



COUNCIL MEETING 1990

CONTRIBUTIONS TO BE PRESENTED AT THE 78TH STATUTORY MEETING

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GEN - GENERAL ASSEMBLY REPORTS AND PAPERS OF GENERAL INTEREST

- Gen:1 Observers' reports from cooperating organizations (and Addendum)
- Gen:2 ICES activities in 1989/1990
- Gen:3 Election of a standing scientific Committee Chairman at the 78th
Statutory Meeting (E + F)
- Gen:4 Advance Release of Tables 1-6 of Bulletin Statistique, Vol. 74,
1989
- Gen:5 Oceanographic Data Centres in the ICES Community

(E+F) = in English and French.

DEL - DELEGATES DOCUMENTS

- Del:1* Audited Income and Expenditure Accounts for the Financial Year 1988/1989 with Balance Sheet at 31/10 1989
- Del:2* Preliminary report on administration for the year 1 November 1989 to 31 October 1990
- Del:3* Report on activities, 1990
- Del:4* Estimated accounts for the financial year 1989/1990
- Del:5* Draft budget for the financial year 1990/1991 (E+F)
- Del:6* Draft forecast budget for the financial year 1991/1992 (E+F)
- Del:7* Elections and appointments by the Council at the 78th Statutory Meeting (E+F)
- Del:8* Report of the meeting of the ad hoc Planning Group for the Eighth Dialogue Meeting
- Del:9* Request for observer status by Greenpeace International
- Del:10* North Sea Task Force Progress Report
- Del:11* Guidelines for North Sea Task Force activities within the Secretariat and ICES
- Del:12* Report of ICES-HELCOM meeting, ICES Headquarters, 6 February 1990
- Del:13* Report of ICES-OSPARCOM-HELCOM Inter-Secretariat meeting, Copenhagen, 5 February 1990
- Del:14* Cooperation with Commission of EC
- Del:15* North Atlantic Committee for Cooperation on Research on Marine Mammals
Ref. A
- Del:16* Guidelines and criteria governing observership of non-governmental organizations at meetings of the Helsinki Commission and the Oslo and Paris Commissions
- Del:17* Proposed Agreement on the Conservation of small Cetaceans
Ref.A

* 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 1989/1990

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

Pub:4* Report from the Editors of the Journal du Conseil for the ICES
Year 1989-1990

Pub:5* Arrangements for handling publication of Journal du Conseil

Pub:6* ICES publications: sales and expenditure

REFERENCE PAPERS FOR THE PUBLICATIONS COMMITTEE

E:8 Editor's report on Techniques in Marine Environmental Sciences

F:3 Report of the Editor of the Disease Sheets

L:111 Report of the Editor of the Plankton Identification Sheets

*For the relevant Committees only.

A - CONSULTATIVE COMMITTEE

- A:1* Agenda for the Consultative Committee
- A:2* Report of the Programme Planning Group Meeting, ICES Headquarters, 24-25 May 1990
- A:3* Minutes of ACFM Meeting, 31 October-8 November 1989
- A:4* Minutes of ACFM Meeting, 15-23 May 1990
- A:5* Report of the ICES-IOC Study Group on Models for Recruitment Processes, Paris, 7-11 May 1990
- A:6* Report of the Inter-Committee Recruitment Group, Copenhagen, October 1990
- A:7* Minutes of the meeting of the Advisory Committee on Marine Pollution, Copenhagen, 5-14 June 1990
- A:8* Future ICES Symposia

REFERENCE PAPERS FOR THE CONSULTATIVE COMMITTEE

- Del:15* North Atlantic Committee for Cooperation on Research on Marine Mammals
- Del:17* Proposed Agreement on the Conservation of Small Cetaceans

*For the relevant Committee only.

B - FISH CAPTURE COMMITTEE

- B:1 Report of Activities, 1989
- B:2 R. Toresen Absorption of acoustic energy in dense herring schools
Sess.R studied by attenuation in the bottom echo signal
- B:3 P.A. Koeller Controlling the variability of survey gear performance
Sess.U
- B:4 Withdrawn.
- B:5 B.Ja. Krayzler Hydroacoustic automatized system for studying objects'
behaviour
- B:6 Withdrawn.
- B:7 Withdrawn.
- B:8 Withdrawn.
- B:9 A. Lebourges Species recognition based on the spectral signature of
Sess.R individual targets
- B:10 P. Degnbol ECHOANN - An analyzer for echosounder signals
Sess.R et al.
- B:11 H. Bodholt Fish density derived from echo integration and in situ
Sess.R target strength measurements
- B:12 B.S. Nakashima The effect of trawl selectivity on estimates of acoustic
Sess.R and biomass and year-class strength of capelin (Mallotus
D.S. Miller villosus)
- B:13 B.S. Nakashima The application of airborne digital imagery and image
Sess.P analysis techniques to detect and measure capelin
schools (Mallotus villosus)
- B:14 R.B. Millar Analysis of trawl selectivity studies with an appli-
Sess.U and cation to trouser trawls
S.J. Walsh
- B:15 Withdrawn.
- B:16 K. Groeneveld The effect of a flip-up rope on the catch efficiency of
Ref.G and an 8-m beam trawl
A.D. Rijnsdorp
- B:17 F.A. Veenstra Safety integrated redesign of Dutch beam trawlers
and J. Stoop
- B:18 A.M. Buys Integrated wheelhouse electronics: a layout on board
Dutch beam trawlers
- B:19 B. van Marlen Performance measurements on a single-door trawl towed at
et al. the sea surface
- B:20 D. Tianyuan, Economic results of stern freezer trawlers in relation
J.W. de Wilde to technical parameters
and J. de Jager

- B:21 K.G. Foote Equivalent beam angles for several standard transducers
Sess.R
- B:22 K.G. Foote Bad-weather calibration of split-beam echo sounding
Sess.R systems
- B:23 K.G. Foote Simultaneous two-sphere two-transducer calibration
Sess.R
- B:24 K.G. Foote How to correct fish density estimates for extinction
Sess.R
- B:25 Withdrawn.
- B:26 M.R. Martins, Gillnet selectivity experiments on pout (Trisopterus
Sess.U F. Cardador luscus) in Portuguese waters
- B:27 A. Järvik Selectivity of Baltic herring trawls studied by the
Sess.U and covered codend and twin codend methods
P. Suuronen
- B:28 P. Suuronen Preliminary trials with a square mesh codend in herring
Sess.U trawls
- B:29 Withdrawn.
- B:30 E. Ona Optimal acoustic beam pattern corrections for split beam
Sess.R transducers
- B:31 E. Ona and Hull mounted, protruding transducer for improving echo
Sess.R J. Traynor integration in bad weather
- B:32 Withdrawn.
- B:33 E.J. Simmonds Sea bed following: efficient data collection for echo
Sess.R and integration
D.N. MacLennan
- B:34 R.S.T. Ferro The analysis of catch comparison data
Sess.U and
P.A.M. Stewart
- B:35 Withdrawn.
- B:36 Report on the joint session of the Working Groups on
Fishing Technology and Fish Behaviour and on Fisheries
Acoustics Science and Technology, Rostock, 25 April 1990
- B:37 B. van Marlen A simulation model to determine the optimal freezing
rate of a stern trawler for a given catch input
- B:38 A. Aglen Swimming behaviour of fish schools in the North Sea
Sess.R and during acoustic surveying and pelagic sampling trawling
O.A. Misund
- B:39 S. Løkkeborg Fish shaped bait does not improve the response of
coastal cod
- B:40 O.A. Misund Dynamics of moving masses variability in packing density
Sess.R and shape among pelagic schools

- B:41 O.A. Misund Relationships between the geometric dimensions and bio-
Sess.R et al. mass of schools
- B:42 Withdrawn.
- B:43 Withdrawn.
- B:44 Report of the Working Group on Fishing Technology and
Fish Behaviour, Rostock, 23-24 April 1990
- B:45 Report of the Working Group on Fisheries Acoustics
Science and Technology, Rostock, 26-27 April 1990
- B:46 B. Isaksen Codend with short lastridge ropes to improve size selec-
Sess. and tivity in fish trawls
U J.W. Valdemarsen
- B:47 B. Isaksen, Reduction of fish by-catch in shrimp trawl using a solid
J.W. Valdemarsen separator grid in the aft belly
and R.B. Larsen
- B:48 N.R. Chessley Techno-economic analysis of fishing system developments
and B.P. Gates
- B:49 F. Gerlotti, Influence of the light of a survey vessel on TS distri-
Sess. D. Petit et bution
R P. Fréon
- B:50 P. Fréon, Evaluation of the influence of vessel noise by night on
Sess.R F. Gerlotti fish distribution as observed using alternate motor and
and M. Soria sails aboard a survey vessel
- B:51 B. Isaksen, A comparison of the selectivity in codends used by
Sess.U S. Lisovsky Soviet and Norwegian trawler fleets in the Barents Sea
and
V.A. Sakno

REFERENCE PAPERS FOR THE FISH CAPTURE COMMITTEE

D:25, D:34, G:32, J:13

C - HYDROGRAPHY COMMITTEE

- C:1 G.I. Nesvetova Hydrochemical conditions in the Spitsbergen area according to the autumn 1972-1988 data
- C:2 Withdrawn.
- C:3 A.G. Kostyanov Mesoscale variability of hydrophysical fields generated by and the Canary Current upwelling from the navigational and Yu.V. Stepanov satellite observation data
- C:4 Ju.A. Vialov Variabilité de rotation terrestre et des pêches Ref.G+H and Yu.S. Altman
- C:5 A.A. Elisarov, Izhevsky's system of nature in the light of modern Ref. B.N. Kotenev investigations G+H and S.N. Rodionov
- C:6 Report of the PEX Study Group Meeting, Tallinn, 8-9 April Ref.E 1990
- C:7 G. Weichert The quality of "old" oceanographic phosphate data Ref.E
- C:8 (plus Annex) Report of Working Group on Shelf Seas Oceanography, Fuengirola, Spain, 27-29 March 1990 Sess.T
- C:9 Report of the Working Group on Oceanic Hydrography, Copenhagen, 28-29 April 1990
- C:10 Report of the Working Group on Marine Data Management, Sopot, Poland, 1-4 May 1990
- C:11 Report of the Study Group for the Application of Aerospace Sess.P Remote Sensing
- C:12 N.K. Højerslev A new perspective for remote sensing measurements of Sess.P and plankton pigments and water quality I. Trabjerg
- C:13 C. Druet Synthesis on the results of triennial 1987-1989 S/V "Oceania" summer cruises performed in the energetically active zones of Greenland Sea
- C:14 I.A. Bychkova Experimental satellite monitoring of the Baltic Sea in the Sess.P et al. 1980s
- C:15 B. Håkansson Remotely sensed water mass distributions and large scale Sess.P sea surface circulations in the Skagerrak
- C:16 Withdrawn.
- C:17 J. Meincke The Greenland Sea interannual variability
- C:18 B. Krutskikh Hydrological features of East Greenland current and A. Makshtas

- C:19 B. Krutskikh and A. Makshtas Experience in estimating characteristics of sea/air interaction in the Greenland and Norwegian Seas
- C:20 K. Myrberg Testing of a two-level flow model with stationary winds and simple basins
- C:21 R.A. Myers, G. Mertz and J.A. Helbig Long period salinity variations of Labrador slope water
- C:22 G. van de Kamp Long-term changes in salinity distribution in the central North Sea
- C:23 L. Sellmann Interaction between the Greenland Sea gyre and the East Greenland Current at 75°N
- C:24 S.S. Kristmannsson et al. The Greenland Sea Project in the western Iceland Sea: current measurements and water masses in the Denmark Strait
- C:25 J.W. Nielsen and E. Buch Geopotential anomaly fields and geostrophic velocity profiles in the western Iceland Sea
- C:26 J.C. Gascard and S.A. Malmberg Circulation and hydrography in the Jan Mayen area
- C:27 S.A. Malmberg et al. Greenland Sea Project in the western part of the Iceland Sea from Jan Mayen to the Denmark Strait
- C:28 Ref.L W.E. Walser Jr. R Hughes and S.C. Rabalais A new multiple interface data acquisition system MIDAS for use in shipboard data acquisition systems
- C:29 Sess.P P. Gudmandsen Satellite observation of polar seas
- C:30 T. Gytre and Ø. Østensen A field intercomparison between an acoustic current profiler/ADCP and two Sarvonius type current meters
- C:31 (+ Addendum) Ref.E Report of the Study Group on SKAGEX Kiel, 31 October - 2 November 1989 and Gdynia, 6-9 March 1990
- C:32 Withdrawn.
- C:33 Sess.P Poster R. Rudloff Application of remote sensing in hydrography and navigation
- C:34 C. Afonso Dias, M.H. Cavaco and J. Pissara Observation of the Azores front in July 1987 and June 1989
- C:35 J. Aure et al. The Jutland Current - Nutrient and physical oceanographic conditions in late autumn 1989

- C:36 S.A. Murawski Climate change and marine fish distributions: analogies
Ref. and from seasonal and annual variability
G+H+L D.G. Mountain
- C:37 P. Cornillon Satellite-derived global sea surface temperature fields:
Sess.P 1981-present
- C:38 Withdrawn.
- C:39 V.A. Makarevich On qualitative visualization of ocean water circulation
and related matter transfer, numerical modelling results
- C:40 E.Fogelqvist, Salinity effects in the analysis of nitrate in seawater
Ref.E B. Yhlen and
B.Thorstensson
- C:41 L. Fusco, The ocean colour European archive network (OCEAN) project
Sess.P V. Barale and
P.Schlitten-
hardt
- C:42 L. Fusco ESA RS data archives and user access for past, present,
Sess.P and future missions
- C:43 Hydrographer's Report
- C:44 L. Føyn SKAGEX 1990. Results from the nutrient intercalibration
Ref.E

REFERENCE PAPERS FOR THE HYDROGRAPHY COMMITTEE

D:7, G:33, G:49, G:50, H:13, J:27, L:4, L:8, Poll:1, Poll:2

D - STATISTICS COMMITTEE

- D:1 Report of the Statistics Committee Liaison Working Group, Copenhagen, 21-22 November 1989
- D:2 Report of the Working Group on ADP Matters, Copenhagen. 15-16 March 1990
- D:3 Withdrawn.
- D:4 and D:5 Withdrawn.
- D:6 V.V. Blinov To the methodology of modelling of the Barents Sea
Ref.G ichthyocenosis
- D:7 V.V. Blinov The possibilities for modelling of oceanographic
Ref.C+H conditions of reproduction, spawning, and feeding
migration paths for the northern stock of blue whiting
in the North-East Atlantic
- D:8 Withdrawn.
- D:9 D. Vasilyev Adaptive step cohort analysis
- D:10 and D:11 Withdrawn.
- D:12 P. Petitgas A geostatistical variance of the total abundance estimate for a regular sampling grid
- D:13 J.M. Hoenig, Bayesian and related approaches to fitting stock
W.G. Warren and production models
M. Stocker
- D:14 K.H. Pollock, Estimation of fishing and natural mortality when a
J.M. Hoenig tagging study is combined with port sampling
and C.M. Jones
- D:15 J.M. Hoenig Can we determine the significance of key events on a
and recruitment time series? - A power study of superposed
M.H. Prager epoch analysis
- D:16 M. Soriano New functions for the analysis of two-phase growth of
et al. juvenile and adult fishes, with application to Nile
perch
- D:17 W.S. Warren The precision of mark-recapture estimates under time
Ref.M and J.B. Dempson interval stratification
- D:18 W.G. Warren Classification without prior criteria illustrated with
Ref.K shellfish data
- D:19 W.G. Warren Outliers, mixtures, and extending the Delta
distribution for fisheries surveys
- D:20 W.G. Warren Median Polish kriging of marine populations
- D:21 P.A. Shelton, Uncertainty associated with cod-capelin interactions:
Ref.G+H L. Fahrig and how much is too much?
R.B. Billar

- D:22 Withdrawn.
- D:23 R.A. Myers Setting quotas in a stochastic fishery
Sess.S
- D:24 R.A. Myers The analysis of catch-at-age data in the presence of
Ref.G+H multiple stocks and seasonal migration
- D:25 K.G. Foote Definition of the problem of estimating fish abundance
Ref. and over an area from acoustic line-transect measurements
B+H G. Stefánsson of density
- D:26 M. Azevedo, First attempt to estimate fish distribution and
Ref.G F. Cardador abundance based on geostatistical techniques applied to
and and data collected on a Portuguese groundfish survey (ICES
E. Serrão Division IXa)
- D:27 E. Ferrandis Effort and mortality in stochastic Brownian models for
fish population dynamics
- D:28 H. Gjøsæter Schooling-by-size in the Barents Sea capelin stock
Ref.H and
K. Korsbrekke
- D:29, D:30, and D:31 Withdrawn.
- D:32 P. Pallarés LCA errors with recruitment fluctuations
and
J.A. Pereiro
- D:33 ICES Progress Report, 1989/1990
Statistician
- D:34 Report of the Study Group on the Applicability of
Ref.B+G+H+K Spatial Statistical Techniques to Acoustic Survey Data,
Brest, 4-6 April 1990
- D:35 V.V. Blinov A few points concerning VPA estimates when using short
Ref.G time data series and possible non-linear or chaotic
character of fishery dynamics in the case of beaked
redfish stock in the Irminger Sea
- D:36 T. Polacheck Analysis of spatial variability of Georges Bank haddock
Ref.G and J.Volstad (*Melanogrammus aeglefinus*) from trawl survey data using
a linear regression model with spatial interaction

REFERENCE PAPERS FOR THE STATISTICS COMMITTEE

G:24, G:26, G:52, G:53, G:61, H:6, J:17, Poll:6

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:1 Not available.
- E:2 A.Y. Cantillo and J.M. Bewers A catalogue of marine standards and reference materials
- E:3 J.M. Bewers and R.J. Pentreath Comparison of risks associated with marine fish consumption
- E:4 O. Bagge Ref.G+J et al. Hypoxia and the demersal fish stock in the Kattegat (IIIa) and Sub-division 22
- E:5 Withdrawn.
- E:6 S. Møllergaard and E. Nielsen Fish disease investigations in Danish coastal waters with special reference to the impact of oxygen deficiency
- E:7 M.N. Moore and M.G. Simpson Molecular and cellular pathology in environmental impact assessment
- E:8 Ref.Pub Editor's Report on Techniques in Marine Environmental Sciences
- E:9 I. Marthinsen and G. Staveland Ref.G Levels of mercury in flounder (*Platichthys flesus* L.) and cod (*Gadus morhua* L.) caught during the year 1988 in the Hvaler archipelago, southern Norway
- E:10 J. de Boer et al. Intercomparison exercise on the analysis of individual chlorobiphenyl congeners in marine media - first step: optimization of gas chromatographic conditions
- E:11 A.D. Vethaak and T.ap Rheinallt A review and evaluation of the use of fish diseases in the monitoring of marine pollution in the North Sea
- E:12 D. Bucke and S.W. Feist Marine fish diseases: an overview of 10 years investigations by MAFF (UK)
- E:13 C.F. Fileman et al. Dissolved and particulate trace metals in surface waters over the Dogger Bank, central North Sea
- E:14 R.J. Law and M.D. Nicholson The 4th round hydrocarbon intercomparison programme: preliminary assessment of Stage 1
- E:15 R.G. Lees et al. Benthic studies in relation to dredging activity off the Isle of Wight, southern England
- E:16 G. Irion and G. Müller Sedimentary processes in the North Sea as revealed from heavy metal distributions in sediment cores
- E:17 S.M. Rowlett et al. Some effects of colliery waste disposal on sediment quality off the northeast coast of England

- E:18 J.E. Thain, The toxicity of dichlorvos to some marine organisms
Ref.F P. Matthiessen
and S. Bifield
- E:19 R. Doerffer How to derive concentrations of chlorophyll, suspended
Sess.P matter, and gelbstoff from multispectral radiances of
case II water?
- E:20 D. Vethaak, On the frequency of left-sided individuals in European
Ref.G M. Eggens
and J. Jol
flounder (Platichthys flesus) populations in relation to
pollution monitoring
- E:21 P.-O. Larsson Diseases of cod observed on Swedish surveys in the
Ref.J Baltic
- E:22 M. Kersten Bioavailability of trace metals from marine sediments
and
I. Kröncke
- E:23 Withdrawn.
- E:24 L. Massie, Assessment of fish from the northern North Sea for oil
A. McIntosh taint
and J.M. Davies
- E:25 I.M. Davies, Environmental impact of fish farms in Scottish sea lochs
Ref.F W. Turrell
and
J. McHenry
- E:26 G. Topping Quality assurance work in relation to the North Sea Task
and D. Wells Force Monitoring Programme
- E:27 G. Clark, Recovery of a sewage sludge dumping ground
D.C. Moore
and I.M. Davies
- E:28 Report of the Working Group on the Effects of Extraction
Sess.T Of Marine Sediments on Fisheries, Charlottetown, Canada,
15-18 May 1990
- E:29 A. Köhler- Report on the interdisciplinary research project "Fish
Günther et al. diseases in the Wadden Sea"
- E:30 A. Köhler- Cellular responses in fish liver as indicators for toxic
Günther effects of environmental pollution
- E:31 T. Lang Infestation of North Sea whiting (Merlangius merlangus
Ref.G L.) with externally visible parasites
- E:32 R. Knust The black spot disease in Cranqon cranqon L. of the
Ref.K German Bight
- E:33 P.-D. Hansen The use of mixed function oxidases (MFO) to support
and biological effects monitoring in the sea
R.F. Addison
- E:34 P.J. Kershaw, A seabed source of artificial radionuclides
G.J. Hunt and
P.A. Gurbutt

- E:35 Draft Cooperative Research Report on the Effects of Ex-
traction of Marine Sediments on Fisheries
- E:36 M. Perttilä Conclusions of the Critical Review of Baltic Sediments

REFERENCE PAPERS FOR THE MARINE ENVIRONMENTAL QUALITY COMMITTEE

C:6, C:7, C:31, C:40, C:44, F:34, K:11, N:12, N:14, Poll:1 to Poll:7

F - MARICULTURE COMMITTEE

- F:1 Report of Activities, 1989
- F:2 E. Moksness Growth rates in cultured common wolffish (Anarhichas
Ref.G and lupus) and spotted wolffish (A. minor)
D. Stefanussen
- F:3 Report of the Editor of the Disease Sheets
Ref.Pub
- F:4 Withdrawn.
- F:5 V.G. Martynov, Rearing conditions for juvenile Atlantic salmon (Salmo
N.K. Vorobieva salar) using the heating of water
and
G.L. Gorshkova
- F:6 Withdrawn.
- F:7 J.-E. Juell Hydroacoustic detection of food waste - a method to
determine maximum food intake of fish populations in sea
cages
- F:8 W.L. Silvert Modelling the feeding, growth, and metabolism of cultured
Sess.O et al. salmonids
- F:9 J.E. Stewart An analytical approach for evaluating opportunities in
et al. mariculture and assessing research needs: a proposal
- F:10 I.E. Calcedo The effect of feed protein content on the intake and
growth of turbot (Scophthalmus maximus L.)
- F:11 Publications of interest to the Mariculture Committee,
1989-1990
- F:12 Report of the Working Group on Environmental Impacts of
Sess.T Mariculture, Aberdeen, 27-31 March 1990
- F:13 Report of the Working Group on Pathology and Diseases of
Sess.T Marine Organisms, Vigo, Spain, 23-27 April 1990
- F:14 Report of the Working Group on Introductions and
Transfers of Marine Organisms, Halifax, 6-8 June 1990
- F:15 Report of the Working Group on Genetics
- F:16 Withdrawn.
- F:17 R. Lauterbach Production principles for rainbow trout aquaculture in
coastal brackish waters of the German Democratic Republic
- F:18 O. Fukuhara, Development and behaviour of larvae and juveniles of
et al. turbot, Scophthalmus maximus L., in hatchery tanks

- F:19 E.A. Black, B. Redfern and H. Rosenthal New developments in air transportation of salmon smolts
- F:20 H. Rosenthal, K. Lawonyawut and J. Willführ Evaluation of shelters to reduce cannibalism in juvenile Macrobrachium rosenbergii under intensive culture conditions
- F:21 H. Rosenthal et al. A proposed glossary on biological and technical terms relevant to aquaculture
- F:22 R.C. Reyes, U. Waller and H. Rosenthal Respiration and behaviour of Macrobrachium rosenbergii at different levels of oxygen saturation
- F:23 P. Fischer, U. Kils and U. Waller In situ and laboratory investigations of respiration and behaviour of Gasterosteus aculeatus and Zoarcetes viviparus at various oxygen concentrations
- F:24 C.A. Fernandez-Pato et al. Larval rearing of turbot (Scophthalmus maximus): effect of density of living food
- F:25 C.A. Fernandez-Pato et al. Effect of vitamin C on turbot (Scophthalmus maximus) using different experimental diets in feeding
- F:26 C. Martinez-Tapia et al. Effect of vitamin C on hypertyrosinemic diet in turbot (Scophthalmus maximus)
- F:27 C.A. Fernandez-Pato et al. Use of pyridoxine and ascorbic acid at different doses in turbot (Scophthalmus maximus) in experimental feeding
- F:28 Withdrawn.
- F:29 C.A. Fernandez-Pato et al. Growth of turbot (Scophthalmus maximus) from 1 to 3,000 g in the north of Spain
- F:30 C.A. Fernandez-Pato et al. Spawn, hatching, and larvae rearing of black spot sea bream (Pagellus bogaraveo): first experiences of its culture in the Oceanographic Center of Santander (Spain)
- F:31 C. Tapia-Martinez et al. Comparative study of larval survival and growth in sea bream (Pagellus bogaraveo) using microencapsulated or living food
- F:32 O. Cherequini Growth of wild black spot sea bream (Pagellus bogaraveo) under laboratory conditions. Some interesting parameters
- F:33 G. Andorsdóttir Comparisons of broodfish quality and egg quality in Atlantic salmon of Norwegian farmed strain, wild Atlantic salmon and ocean ranching Atlantic salmon of Norwegian farmed strain
- F:34 P.K. Hansen, K. Pitman and A. Ervik Effects of organic waste from marine fish farms on the seabottom beneath the cages

- F:35 A. Ervik et al. Interactions between heritage, health, growth and environmental conditions in fish farming. Part 1: heritage, environment, and growth
- F:36 B. Hjeltnes et al. Interactions between heritage, health, growth and environmental conditions in fish farming. Part 2: health
- F:37 Proposed revisions to the ICES Code of Practice. A report of the ICES Working Group on Introductions and Transfers of Marine Organisms
- F:38 Ø. Bergh, G.H. Hansen and A. Jelmert Bacterial diseases of eggs and yolk sac larvae of halibut (Hippoglossus hippoglossus L.): characterization and experimental infection
- F:39 Ø. Bergh and A. Jelmert Antibacterial treatment procedures of eggs of halibut (Hippoglossus hippoglossus L.)
- F:40 J.V. Helvik and K. Pittman Light affects hatching, development and pigmentation of halibut (Hippoglossus hippoglossus L.)
- F:41 I. Opstad and Ø. Bergh Effects of continuous flow rate on development and mortality of halibut yolk sac larvae
- F:42 Withdrawn.
- F:43 A.B. Skiftesvik et al. Effect of light on the development, activity, and mortality of halibut (Hippoglossus hippoglossus L.) yolk sac larvae
- F:44 K.E. Naas and A. Mangor-Jensen Initial feeding rates of Atlantic halibut larvae (Hippoglossus hippoglossus) at different prey densities
- F:45 A. Jelmert and K.E. Naas Induced deformities on larvae of the Atlantic halibut (Hippoglossus hippoglossus L.). A new experimental approach
- F:46 Withdrawn.
- F:47 H. Otterå and Ø. Lie Weaning trials with cod fry on artificial diets
- F:48 G. Blom et al. Comparative growth and survival of two genetic strains of Atlantic cod (Gadus morhua L.) reared through the early life stages in a marine pond in western Norway
- F:49 A.C. Barnes et al. In vitro activities of 4-quinolone antimicrobials against Aeromonas salmonicida
- F:50 D. Small, P. Huntly and A.L.S. Munro Fate of four fish pathogens after exposure to an ensiling mixture containing fish farm mortalities
- F:51 W. Turrell and Ref.M A.L.S. Munro Further modelling studies on the fate and dispersion of Aeromonas salmonicida released during a furunculosis epidemic in sea-caged Atlantic salmon (Salmo salar L.)

- F:52 K. Boxaspen, T. Harboe and L.H. Skjoldal Calculated rate of halibut larvae (Hippoglossus hippoglossus L.) from startfeeding to metamorphosis on diet of natural zooplankton and Artemia sp.
- F:53 T. Harboe et al. Age of Atlantic halibut (Hippoglossus hippoglossus L.) larvae at first feeding
- F:54 Withdrawn.
- F:55 D.M. Furevik Ref.M et al. Migratory patterns of escaped farm-raised Atlantic salmon
- F:56 Withdrawn.
- F:57 H. Rabben et al. Startfeeding success of halibut larvae as a function of temperature regime
- F:58 Withdrawn.
- F:59 L.H. Skjoldal et al. Calculated growth rate of halibut larvae (Hippoglossus hippoglossus L.) as a function of introduction time for Artemia sp.
- F:60 L.H. Skjoldal et al. A comparison of growth rate of halibut larvae (Hippoglossus hippoglossus L.) fed natural zooplankton and enriched Artemia sp.
- F:61 T. Ness et al. Green water in larvae culture - an experiment with natural phytoplankton in tanks for first feeding of halibut larvae (Hippoglossus hippoglossus L.)
- F:62 Withdrawn.
- F:63 R. Nortvedt et al. A multivariate approach to investigate growth of Atlantic salmon parrs as a function of water quality in rearing tanks
- F:64 R. Nortvedt Ref.M et al. Smoltification of Atlantic salmon in different water qualities and subsequent growth in seawater, following distinct transfer strategies from freshwater
- F:65 Report of the Working Group on Mass Rearing of Juvenile Marine Fish
- F:66 J. Munro et al. Stress and osmotic performance of Atlantic cod (Gadus morhua) at low enrichment salinity
- F:67 H.-J. Jennerich Investigations on offshore trout production along the coast of the German Democratic Republic
- F:68 G. Schneider, T. Jäger and H. Rosenthal Growing trout in global cages in an effluent plume of a coastal power station
- F:69 Annegret Anders and E. Anders Diagnostic investigations of bacterial infections of rainbow trout in coastal waters of the German Democratic Republic
- F:70 E. Anders Experimental polyploidization in rainbow trout

- F:71 W. Gierer Pharmacokinetic investigations on chloramphenicol in trout
- F:72 I. Achenbach and R. Fröse Presentation of a database system for information on and diagnosis of fish diseases
- F:73 I. Lein and I. Holmefjord Larval age at first feed intake in Atlantic halibut (Hippoglossus hippoglossus)
- F:74 I. Holmefjord and I. Lein Natural spawning of Atlantic halibut (Hippoglossus hippoglossus) in captivity
- F:75 Ref.M Progress report of the Study Group on the Genetic Risks to Atlantic Salmon Stocks

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E:18, E:25, K:11, K:13, K:23, L:92, Poll:7

G - DEMERSAL FISH COMMITTEE

- G:1 Report of Activities, 1989
- G:2 Report of the Study Group on Oceanic-Type Sebastes mentella, Reykjavik, 21-23 February 1990
- G:3 A.M. Ajiad Variabilities in stomach contents of cod, collected by demersal and pelagic trawl in the southern part of the Barents Sea
Sess.0
- G:4 A.M. Ajiad Trophic interrelation between length groups of Northeast Arctic cod in the southern part of the Barents Sea
Sess.0
Poster
- G:5 J. Gjøsaeter, Genotype distributions of cod from the southeastern coast of Norway
K.E. Jørstad
and G. Nævdal
- G:6 A.V. Dolgov Daily feeding rhythms and food intake of the Barents Sea cod and haddock in the summer of 1989
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N.A. Yaragina
- G:7 M.V. Kovtsova Distribution, abundance, and survival conditions of haddock fingerlings from the 1982-1989 year classes in the southern Barents Sea
and
Y.M. Lepesevich
- G:8 M.S. Shevelev, Soviet investigations of cod, haddock and redfish within the Barents Sea and adjacent waters in 1989
A.E. Dorchenkov
and V.S. Mamylov
- G:9 Withdrawn.
- G:10 G.P. Nizovtsev, Fisheries regulation measures and biological substantiation of the minimum landing size for the Arcto-Norwegian cod and haddock
Sess.0 M.V. Kovtsova
and V.L. Tretyak
- G:11 A.V. Dolgov Estimation of rations and food consumption of deep-water redfish (Sebastes mentella) from the Norwegian-Barents Sea stock
Sess.0 and
K.V. Drevetnyak
- G:12 A.P. Shvagzhdis Feeding peculiarities of Greenland halibut from the Norwegian-Barents Sea stock in 1980-1989
- G:13, G:14, and G:15 Withdrawn.
- G:16 N.Ja. Lipskaya Food consumption rates among fish larvae belonging to different biological groups
Sess.0
- G:17 D. Pauly, Some features of fish food consumption estimates used by ecosystem modellers
Sess.0 V. Christensen
and V. Sambiley
- G:18 H.B. Hernandez, The daily food consumption of Siganus fuscescens, an important herbivore in the seagrass communities of Bolinao, Pangasinan Province, Philippines
Sess.0 P.F. Aliño
and A. Jarre
- G:19 A. Jarre, A generalised approach for estimating daily ration from stomach content dynamics
Sess.0 A. Temming
and D. Pauly

- G:20 J. Alperi Croissance des cardines (Lepidorhombus whiffiaconis et L. boscii) en Mer cantabrique (Division VIIIc du CIEM)
- G:21 H. Dupouy, D. Christien and B. Kergoat Estimation de la mortalité par pêche et rendement par recrue du lieu jaune (Pollachius pollachius) du plateau celtique
- G:22 B. Bogstad and Sess.0 S. Mehl The consumption rate of North-East Arctic cod - a comparison of gastric evacuation models
- G:23 Withdrawn.
- G:24 R.B. Millar and R.A. Myers Modelling environmentally induced change in growth for Atlantic Canada cod stocks
- G:25 R.B. Millar, L. Fahrig and P.A. Shelton Effect of capelin biomass on cod growth
- G:26 L. Fahrig and B. Atkinson Concurrent exploitation of multiple stocks: a redfish simulation study
- G:27 M.A. van der Land, H.J.L. Heessen and A.D. Rijnsdorp The result of the 1989 egg surveys for cod and plaice
- G:28 Withdrawn.
- G:29 H.C. Welleman Ref.H+J Annual check formation in otoliths as a starting point for ageing by means of computer analysis
- G:30 H. Gislason Ref.H Fishing patterns and yield variations
- G:31 A. Temming Sess.0 F. Köster Stomach evacuation rates of cod and herring estimated from field data
- G:32 Aa. Bjordal Ref.B and T. Laevastu Effects of trawling and longlining on the yield and biomass of cod stocks - numerically simulated
- G:33 B. Hansen, Ref.C A. Kristiansen and J. Reinert Cod and haddock in Faroese waters and possible climatic influences on them
- G:34 F.W. Köster Sess.0 et al. Tank experiments on board: a useful tool for the estimation of stomach evacuation rates?
- G:35 P.J. Bromley Sess.0 and J. Last Feeding in the trawl and the consequences for estimating food consumption in natural fish populations
- G:36 P.J. Bromley Sess.0 International database of the results of gastric evacuation
- G:37 M. Greer Walker and P.R. Witthames The fecundity of sole (Solea solea) in ICES Division IVb in 1987 and 1988 and VIId in 1988

- G:38 R.S. Millner and C.L. Whiting Distribution and abundance of juvenile sole and plaice in the eastern English Channel from young fish surveys
- G:39 Withdrawn.
- G:40 D. Otterlei and P. Grotnes The growth of ling (Molva molva) in populations along the continental shelf off Shetland, the Faroes, and Rockall
- G:41 J. Magnússon and Jutta V. Magnússon Icelandic investigations on the oceanic stock of S. mentella in the Irminger Sea in 1989 and 1990
- G:42 Jutta V. Magnússon Ageing and age composition of silver smelt (Argentina silus Asc.) in Icelandic waters
- G:43 J. Magnússon, K. Kosswig and Jutta V. Magnússon Further studies on young redfish in the East Greenland Shelf area
- G:44 Withdrawn.
- G:45 P. Pereda and I. Olaso Feeding of hake and monkfish in the non-trawlable area of the shelf of the Cantabrian Sea
- G:46 Preliminary report on the international 0-group fish survey in the Barents Sea and adjacent waters in August-September 1990
Ref.H
- G:47 H. Gjøsæter and A.M. Ajiad Growth of Polar cod (Boreogadus saida) in the Barents Sea
Ref.H
- G:48 A.M. Ajiad and H. Gjøsæter Diet of Polar cod (Boreogadus saida) in the Barents Sea related to fish size and geographic distribution
Ref.H
- G:49 H. Loeng and H. Gjøsæter Growth of 0-group fish in relation to temperature conditions in the Barents Sea during the period 1965-1989
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- G:50 Report of the ICES Study Group on Cod Stock Fluctuations
Ref.C+L
- G:51 A.P. Robb Gastric evacuation in whiting (Merlangius merlangus L.)
Sess.O
- G:52 P. Kunzlik Ad hoc tuning of non-annual virtual population analyses
Ref.D+H+J
- G:53 S. Reeves Linear modelling of discard data from Scottish demersal fisheries
Ref.D
- G:54 O.R. Godø Comparison of catches of cod from Norwegian commercial trawlers and research vessels
Sess.U and K. Korsbrekke
- G:55 O.R. Godø Length selection during trawl sampling and its effect on abundance indices by age
Sess.U and K. Sunnaná

- G:56 O. Jørgensen and K. Akimoto Distribution and biology of Sebastes mentella in the Greenlandic part of the Irminger Sea in September 1989
- G:57 Poster O. Jørgensen and K. Akimoto Results of a stratified-random bottom trawl survey off Northeast Greenland in 1989
- G:58 H. Hovgård and F. Riget A long-line estimate of swept area abundance of cod in inshore areas of West Greenland
- G:59 Report of the Study Group on Beam Trawl Surveys in the North Sea and English Channel, Ostende, 6-9 June 1990
- G:60 Report of the Study Group on the Fecundity of Sole and Plaice in Sub-areas IV and VIII and Divisions VIIId, e, Lowestoft, 18-21 September 1990
- G:61 H.-J. Rätz Ref.D Remarks on the reliability of the abundance estimates derived from groundfish surveys conducted in Greenlandic waters
- G:62 R. Knust Food and condition of dab (Limanda limanda L.) from the Dogger Bank and the German Bight
- G:63 P. Degnbol Sess.O et al. Experimental estimation of food preference in cod - results of a pilot experiment
- G:64 Withdrawn.
- G:65 O. Hagström, P.-O. Larsson and M. Ulmestrand Swedish cod data from the International Young Fish Surveys, 1981-1990
- G:66 C.E. Purdom and D.J. Garrod Fisheries on the Dogger Bank
- G:67 R.P. Briggs Whiting recruitment studies using discard data from the Northern Ireland Nephrops fishery
- G:68 J. Jakobsson Poster Icelandic 0-group fish survey
- G:69 J. dos Santos Sess.O and M. Jobling Aspects of gastric evacuation in the Atlantic cod (Gadus morhua L.)
- G:70 N. Daan Sess.S Ideas for re-arrangement of Assessment Working Groups

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B:16, C:4, C:36, D:6, D:21, D:24, D:26, D:34, D:35, D:36, E:4,
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H - PELAGIC FISH COMMITTEE

- H:1 Report of Activities, 1989
- H:2 Report of the Mackerel/Horse Mackerel Egg Production Workshop, Lowestoft, 29 January - 2 February 1990
- H:3 Report of the International North Sea, Skagerrak, and
Ref.G Kattegat Bottom Trawl Survey Working Group, Copenhagen,
Sess.S 26 February - 1 March 1990
- H:4 S.A. Iversen A preliminary study of microstructure in otoliths of
and E. Moksness sea-caught mackerel (Scomber scombrus L.) larvae
- H:5 Second Report of the EEC-Norwegian Joint Scientific Group on Migration and Area Distribution of Mackerel (Western Stock), Brussels, 12-13 December 1989
- H:6 H. Sparholt Using GLM analysis on the IYFS herring data for the
Ref.D+G North Sea
- H:7 E.I. Seliverstova Growth and maturation rate of Atlanto-Scandian herring in the 1950-1980s
- H:8 N.A. Isaev and Results of Soviet investigations on blue whiting in the
S.V. Belikov Northeast Atlantic in spring 1989
- H:9 N.A. Barkova Utilisation des informations satellitaires pour l'étude
Sess.P and M.W. des particularités de répartition de la sardine dans
Domanevskaya l'Atlantique centre-est
- H:10 Withdrawn.
- H:11 E.M. Gerber Fish resources in oceanic areas of the North Atlantic
- H:12 L.I. Koval Etude du remplacement du contingent géniteur dans la population de chinchard, Trachurus symmetricus murphy (Nichols)
- H:13 Report on the International Young Fish Survey in the
Ref.C+G North Sea, Skagerrak, and Kattegat in 1990
- H:14 T. Monstad Distribution and growth of blue whiting in the North-East Atlantic
- H:15 T. Monstad Some biological factors of blue whiting in the North-East Atlantic
- H:16 B. Bogstad and Estimation of predation mortalities on capelin using a
Ref.G S. Tjelmeland cod-capelin model for the Barents Sea
- H:17 W. Smith and Larval distribution patterns: evidence for the
W. Morse collapse/recolonisation of Atlantic herring on Georges Bank
- H:18 P. Berrien Atlantic mackerel egg production and spawner biomass
Ref.L estimates for the Gulf of St. Lawrence and Northeastern US waters, 1987

- H:19 M.A. van der Land Ref.L Distribution and mortality of pelagic eggs of by-catch species in the 1989 egg surveys in the southern North Sea
- H:20 A. Eltink Ref.L Horse mackerel egg production and spawning stock size in the North Sea in 1989
- H:21 A. Corten Sess.S The choice of target fishing mortality in herring fisheries
- H:22 and H:23 Withdrawn.
- H:24 E. Kirkegaard et al. Report on the herring acoustic surveys in the North Sea, Skagerrak, and Kattegat during summer 1989
- H:25 Amor Sola Ref.L et al. Seasonal occurrence of pelagic fish eggs and larvae in the Cantabrian Sea (VIIIc) and Galicia (IXa) from 1987 to 1989
- H:26 L. Motos and Ref.L J. Santiago An egg production estimate of biomass of the Bay of Biscay anchovy, Engraulis encrasicolus L. in 1989
- H:27 P. Lucio and, Ref.L A. Uriarte Aspects of the reproductive biology of the anchovy, Engraulis encrasicolus L. (1758) during 1987 and 1988 in the Bay of Biscay
- H:28 Withdrawn.
- H:29 L. Motos Ref.L et al. Results of the 1989 AZTI-SIO egg surveys on mackerel, Scomber scombrus, and horse mackerel, Trachurus trachurus
- H:30 E. Kjorsvik et al. On the inter-tidal spawning of Balsfjord herring (Clupea harengus)
- H:31 M. Walsh et al. Estimation of total potential fecundity and atresia in the Western mackerel stock 1989
- H:32 Report of the Working Group on Herring Larvae Surveys South of 62°N, 27 February - 2 March 1990
- H:33 J.A. Jacobsen Acoustic surveys on blue whiting north of the Faroes in August/September 1988 and 1989
- H:34 J.A. Jacobsen A survey on herring south of the Faroes in June 1990
- H:35 Report of the Planning Group for Acoustic Surveys in ICES Sub-areas VIII and IX, Lisbonne, 29-31 May 1990
- H:36 J. Castro Sess.Q et al. Poster Trophic relationships between skipjack tuna (Katsuwonus pelamis), chub mackerel (Scomber japonicus), and silversides (Atherina presbyter) in the area of the Canary Islands
- H:37 M. Meixide Results of the blue whiting otolith exchange
- H:38 S.V. Belkov, D.M. Mahon and J. Molloy Results of blue whiting investigations in the northeast Atlantic in spring, 1990

- H:39 N.A. Isaev Results of research on blue whiting to the west of the
and D. Minchin Irish coast in spring 1989
- H:40 Report on the ICES Herring Larval Surveys in the North
Sea and adjacent waters

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C:4, C:36, D:7, D:21, D:24, D:25, D:28, D:34, G:25, G:29, G:46,
G:48, G:52, J:4, J:16, J:30, L:92, L:106, N:17

J - BALTIC FISH COMMITTEE

- J:1 Report of Activities, 1989
- J:2 List of Publications related to the interests of the Baltic Fish Committee
- J:3 R. Aps, L. Ustinova and B. Gentzen Allometric growth of the Baltic sprat otoliths
- J:4 R. Aps et al. Application of image analysis system in sprat otolith studies
Ref.G+H
- J:5 T. Raid On herring reproduction in the northeastern Baltic
- J:6 S. Shirokov Dynamics of maturation of the Baltic sprat
- J:7 L. Ustinova Growth of the juvenile Baltic sprat
- J:8 R. Aps A century of Baltic sprat biology investigations: stock identification, recruitment, otoliths
- J:9 R. Aps et al. Microstructure of the Baltic cod otoliths
- J:10 T.I. Bulgakova A model for the embryonal period in the Baltic cod life history
Ref.L and G.B. Grauman
- J:11 M. Plikshs and E. Gradalev Acoustic survey of the spawning stock of cod in the Eastern Baltic in 1989
- J:12 W. Weber and U. Damm Investigation on cod stomachs in the Western Baltic
- J:13 K.-J. Stæhr Report on the acoustic survey in ICES Sub-divisions 22, 23, and 24 in November 1989
Ref.B and Th. Neudecker
- J:14 K. Krenkel Preliminary results of fecundity investigations of R-Rügen spring-spawning herring in 1988 and 1989
- J:15 N. Schulz A new attempt to calculate consumption rates for cod (Gadus morhua) in the western Baltic
Sess.O
- J:16 O. Rechlin On the separation of catch projections for a stock with seasonal fisheries in different areas: herring assessment unit Division IIIa and western Baltic Sea
Ref.H
- J:17 M. Hildén and P. Kultalahti Structural changes in the Finnish trawl fishery in the 1980s and the identification of fishing strategies
Ref.D
- J:18 W. Grygiel The trends in Polish sprat landings and sprat biological characteristics in the Southern Baltic in the 1981-1986 period
- J:19 P. Margonski Some aspects of straight-nosed pipefishes' (Nerophis ophidion L.) biology in the Gdansk Bay

- J:20 J. Netzel Cod migrations in Southern Baltic
- J:21 Th. Neudecker Results of morphometric investigations on herring otoliths from the Western Baltic using an image analyser
- J:22 Th. Neudecker Changes in growth of Western Baltic herring from 1982 to 1989
- J:23 R. Thiel Community structure and niche relationships of young and small fish communities within the shallow water areas of a Baltic bay
Ref.L
- J:24 and J:25 Withdrawn.
- J:26 E. Ona and The herring swimbladder and salinity; a comparison of
Sess.R L.E. Palmen Baltic and Norwegian spring-spawning herring
- J:27 E. Aro Estimation of Baltic cod eggs and larvae drift by two-
Ref.C et al. layer, two-dimensional linear flow model
- J:28 E. Aro Estimation of changes in the abundance of Baltic
et al. herring and sprat stocks by combined hydroacoustic-trawl surveys in the Gulf of Finland in autumn, winter, and spring
- J:29 Report of the Study Group on Young Fish Surveys in the Baltic, Tvärminne, Finland, 3-7 September 1990
- J:30 A. Müller, Ovarian maturation and batch fecundity in Baltic sprat
Ref.H K. Muhsin from the Bornholm Basin, 1988
and F. Köster
- J:31 Withdrawn.
- J:32 R. Parmanne The fecundity of herring in the northern Baltic Sea
and
E. Kuittinen
- J:33 Withdrawn.
- J:34 Report of the Planning Group for Hydroacoustic Surveys in the Baltic, Copenhagen, 17-18 April 1990
- J:35 O. Hagström Acoustic estimates of the herring and the sprat stocks
et al. in the Baltic proper October 1989
- J:36 E. Steffensen The landings per unit effort of cod, plaice, flounder,
and O. Bagge dab, turbot, and brill in the western Baltic 1963-1989
as estimated from the Bagenkop fleet

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E:4, E:21, G:29, G:30, G:52

K - SHELLFISH COMMITTEE

- K:1 Report of Activities, 1989
- K:2 Gro I. van der Meer et al. Large-scale release experiment of juvenile lobsters, Homarus gammarus, in Norway
- K:3 A. Nicolajsen and H. Eiriksson A preliminary report on the reproductive cycle of Nephrops norvegicus at the Faroes
- K:4 B.I. Berenboim, A.I. Mukhin and G.K. Sheveleva Soviet investigations of shrimp, Pandalus borealis, in the Barents Sea and off the Spitsbergen area in 1989
- K:5 Withdrawn.
- K:6 I.S. Wehrtmann Larval production of Crangon septemspinosa in waters adjacent to Chesapeake Bay, USA, in relation to oceanographic conditions
Ref.L
- K:7 I.S. Wehrtmann and C. Stagg Distribution of Crangon septemspinosa larvae off Chesapeake Bay, USA: a comparison of field data and the results of a larval transport model
- K:8 and K:9 Withdrawn.
- K:10 C.C.E. Hopkins, J.R. Sargent and E.M. Nilssen Total lipid content, and lipid and fatty acid composition of the deep-water prawn Pandalus borealis from Balsfjord, northern Norway: growth and feeding relationships
- K:11 A. Boday Ref. et al. E+F Mass mortalities of oysters (Crassostrea gigas) during the spring 1988 in the Bay of Marennes-Oléron (Atlantic coasts of France), related with environmental problems
- K:12 Withdrawn.
- K:13 R.C.A. Bannister Ref.F et al. The 1989 results from a lobster stock enhancement experiment on the east coast of England
- K:14 P. Walker, Sess.P P.J. Dare and E. Clark The potential of aerial photography for estimating intertidal stocks of mussels (Mytilus edulis) in the Wash, England
- K:15 A.M. Caramelo and G. Pestana An assessment of the shellfish Portuguese fishery (ICES Division IXa) and management strategies results
- K:16 Publications of interest to the Shellfish Committee, 1990
- K:17 Gro I. van der Meer Foraging activity in common shore crabs, Carcinus maenas on a blue mussel bed
- K:18 Withdrawn.

- K:19 C. Bacher Trophic capacity of the Bay of Marennes-Oléron: coupling
Sess.Q a model of transport of particulate matter and a model
Poster of growth of Crassostrea gigas
- K:20 M. Héral, Decline of oyster production in the Maryland portion of
B.J. Rothschild the Chesapeake Bay: causes and perspectives
and P. Goullet-
quer
- K:21 O. Tully and Spatial patterns of variability in length frequency
J.P. Hillis distribution of Nephrops in the Irish Sea
- K:22 J.P.Hillis The Irish fishery for Nephrops on the Porcupine Bank
and M. Geary
- K:23 S. Andersen Growth of scallop juveniles (Pecten maximus) in an en-
Ref.F and K. Naas riched shallow sea water basin

REFERENCE PAPERS AND POSTER FOR THE SHELLFISH COMMITTEE

D:18, D:34, E:32, N:8 (Poster)

L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

- L:1 (+ Addendum) Report of Activities, 1989
- L:2 J.H. Cowan, Jr. Estimates of relative predation potential by medusae,
and E.D. Houde ctenophores and fish on ichthyoplankton in Chesapeake
Bay
- L:3 E.D. Houde Temperature-dependent and size-dependent variability in
vital rates of marine fish larvae
- L:4 A.G. Alexseeva, Effects of oceanographic conditions on primary produc-
Ref.C I.I. Svetlov tion distribution in the Irminger Sea
and
L.G. Balabanova
- L:5, L:6, and L:7 Withdrawn.
- L:8 R. Ian Perry The Georges Bank frontal system: mechanisms of plankton
Ref.C et al. retention or dispersal
- L:9 Withdrawn.
- L:10 H. Auf dem Distribution of auto-, mixo, and heterotrophic plankton
Sess.V Venne ciliates in the Greenland Sea in late spring and fall
1988
- L:11 Y. Desaunay ZEBULON, a simple suprabenthic sampling gear for
Poster et al. ichthyoplankton studies over the continental shelf
- L:12 E. Marchal, Scattering layer of micronekton, thermal structure and
Sess.R F. Gerlotto tuna abundance in the Atlantic equatorial current system
and B. Stequert
- L:13 K. Richardson Annual distribution and production of phytoplankton in
and A. the southern Kattegat
Christoffersen
- L:14 B. Reguera, Distribution of Dinophysis acuta at the time of a DSP
I. Bravo and outbreak in the Rias of Pontevedra and Vigo (Galicia, NW
S. Fraga Spain)
- L:15 M.E. Huntley Physiological rate measurements of zooplankton produc-
Sess.V tion rates - Beyond this broken promise
- L:16 Withdrawn.
- L:17 D.V. Holliday Acoustic assessment of zooplankton in the Irish Sea
Sess.R et al.
- L:18 P. Juel Hansen The annual cycle of heterotrophic dinoflagellates in the
Kattegat; with emphasis on the trophic role in the
marine microbial food web
- L:19 T. Gissel Contribution of zooplankton grazing in the decomposition
Nielsen of a Ceratium bloom

- L:20 M. Berman Enhanced zooplankton processing with image analysis technology
- L:21 Withdrawn.
- L:22 J. Kane and J. Green Zooplankton biomass on Georges Bank 1977-1986
- L:23 K. Sherman, J. Jossi and J. Goulet Comparative stability of zooplankton communities of the Northeast US Shelf ecosystem and the North Sea ecosystem in relation to climatic variability
- L:24 K. Sherman Large marine ecosystems as global units for management: an ecological perspective
- L:25 A. Bedo Filter feeding by Appendicularians: various estimates of their grazing on *Synechococcus* sp. (cyanobacteria)
Sess.V
- L:26 C. Morales A review of the gut fluorescence method for estimating ingestion rates of planktonic herbivores
and R. Harris
Sess.V
- L:27 O.H. Haslund *In situ* measurements of copepod production: a comparison
and M. Fryd
Sess.V
- L:28 P. Bernal A steady state trophic model for a highly productive embayment: Concepcion Bay, Chile
et al.
Sess.Q
Poster
- L:29 A. Yañez-Trophic analysis of macrofauna, nektonic food consumption, and shrimp predation by fishes in Terminos Lagoon, Mexico
Arancibia
et al.
Sess.Q
Poster
- L:30 P. Degnbol The pelagic zone of central Lake Malawi - a trophic box model
Sess.Q
Poster
- L:31 J.W. Baretta, Ems estuary ecosystem model
Sess.Q P. Ruardij
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- L:32 A. Cohen, An ecosystem model of Monterey Bay, California
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- L:35 K. Ruddle A quantitative energy flow model of the Mulberry Dike -
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- L:36 M.L.Palomares A trophic model of a Mediterranean lagoon, Etang de
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- L:37 P. Schalk Towards a conceptual model for the Antarctic marine
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- L:38 S. Opitz A quantitative steady-state model of the trophic inter-
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- L:40 L. Arbaca- First approach for a trophic model for Tamiahua, a
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- L:41 G. Silvestre A trophic model of the shallow-water fisheries resources
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- L:42 C.M. Aravindan Trophic relationships of major food fishes in a semi-
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- L:43 W. Silvert Size-structured models of continental shelf food webs
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- L:44 Withdrawn.
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- L:47 J.G. Pope, A steady-state trophic model of the North Sea
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- L:64 A.A. van Dam, Trophic interactions in a napier grass (Pennisetum
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- L:65 R.P. Noble and Resource flows in crop-pond aqua ecosystems in Malawi
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- L:66 A.D. Pongase Efficient aggregation of boxes in trophic ecosystem
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- L:67 D. Pauly and Three new approaches for the graphical representation of
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- L:69 V. Christensen Global comparison
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- L:70 U.S. Amara- An energy-flow model of Parakrama Samudra, an ancient
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- L:71 A.D. Buijse A trophic model for IJsselmeer (The Netherlands) - a
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- L:72 C. de la Cruz Steady-state models of a rice paddy ecosystem with and
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- L:73 V. Christensen Size-specific predation and "box" modelling
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- L:74 M.V. Angel and Latitudinal patterns in biomass and diversity profiles
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northeastern Atlantic
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- L:89 A. Röpke, A comparative study on the vertical distribution of fish
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- L:90 R. Fröse Development of an underwater video system for recording
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- L:96 Report of the Working Group on Recruitment Processes,
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- L:99 B. Ueberschär A comparison of the nutritional condition of herring
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- L:100 B. Ellertsen Spawning strategy and a mechanism for adaptive larval
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- L:102 T. Noji and Protistan associations with fecal pellets
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- L:103 C. Noji, Benthic activity and respiration in a northern Norwegian fjord in late autumn
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- L:104 J.A. Runge Egg production rates of Calanus finmarchicus in the Gulf of St. Lawrence
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- L:105 List of publications of interest to the Biological Oceanography Committee, 1989
- L:106 J.A. Morrison, Mass mortality of spring spawning herring eggs in Scottish waters
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- L:108 S. Alshuth Respiration and excretion rates of copepods from the Northwest Atlantic Ocean
- L:109 M.R. Roman and Size distribution analysis of zooplankton biomass using
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- L:111 Report of the Editor of the Plankton Identification
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- L:112 J. Csirke Simplified trophic interactions in the Northern Patagonia and Bonaerensis area in the Southwest Atlantic
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- L:113 S. Barnard Trophic dynamics in a gravel pit lake ecosystem
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- L:116 J.A. Browder Trophic flows and organic matter budget, Gulf of Mexico continental shelf
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C:28, C:36, G:27, G:50, H:18, H:19, H:20, H:25, H:26, H:27, H:29,

J:10, J:23, K:6, K:7, Poll:7

M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE

- M:1 Report of Activities, 1989
- M:2 Report of the Study Group on the Norwegian Sea and Faroes Salmon Fishery, Copenhagen, 12-15 March 1990
- M:3 Report of the Study Group on the North American Salmon Fisheries, Halifax, Nova Scotia, 26 February - 2 March 1990
- M:4 ICES Compilation of Microtag, Finclip, and External Tag Releases in 1989
- M:5 E.D. Houde and L.G. Morin Temperature effects on otolith daily increment deposition in striped bass and white perch
- M:6 V.A. Anokhina and N.K. Vorobieva Comparative characteristics of developing eggs and early life stages of Atlantic salmon (*Salmo salar* L.) from different rivers
- M:7 T.K. Lebskaya *et al.* Dynamics of biochemical indices for reared juveniles of Atlantic salmon (*Salmo salar* L.) during smoltification
- M:8 A.V. Zubtchenko, A.F. Sharov and O.G. Kuzmin Atlantic salmon of the River Tuloma as the salmon stock index of the Barents Sea basin
- M:9 A.F. Sharov Simulation model of Atlantic salmon population
- M:10 Withdrawn.
- M:11 List of publications related to the interests of the Anadromous and Catadromous Fish Committee, 1989
- M:12 M. Hildén and Sess. S. Kuikka S The analytical hierarchy process as a tool for analysing the perceptions of the salmon management problem in Finland
- M:13 R. Trzebiatowski and J. Domagala Efficiency of stocking small streams with the sea trout (*Salmo trutta* L.) hatch of different age
- M:14 C. Eriksson Experimental tagging of young salmon (*Salmo salar* L.) and sea-trout (*Salmo trutta* L.) with different types of the Carlin tag
- M:15 V.A. Pepper and M.F. O'Connell Coded wire microtagging of Atlantic salmon (*Salmo salar* L.) in Newfoundland, Canada
- M:16 E.J. Chesney A model of survival and growth of striped bass larvae, *Morone saxatilis*, in the Potomac River, 1987
- M:17 I. Fjallstein Relative decline of sample total weight in seawater challenge tests as a smolt quality criterion
- M:18 A. Moore *et al.* A technique for tracking Atlantic salmon (*Salmo salar* L.) smolts through estuaries
- M:19 I.C. Russell *et al.* A telemetric tracking system for high-resolution monitoring of fish movements

- M:20 I.C. Russell Recoveries of coded wire microtags from salmon caught at
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- M:21 I. Borzecka, Attempts of using the discriminant function based on
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- M:22 M. Hildén Salmon stocks and management advice - assessing the
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- M:23 W.S. Davidson A polymorphism in the ribosomal RNA genes distinguishes
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 Europe

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N - MARINE MAMMALS COMMITTEE

- N:1 Report of Activities, 1989
- N:2 R. Duguy Rapport annuel sur les Cétacés et Pinnipèdes trouvés sur les côtes de France en 1989
- N:3 R. Duguy Variation de fréquence chez les Cétacés échoués sur les côtes de France au cours des 10 dernières années 1980-1989
- N:4 V.A. Potelov The abundance and state of the stock of harp seals and hooded seals in the Greenland Sea
Poster
- N:5 J. Sigurjónsson Distribution and abundance of cetaceans in Icelandic and adjacent waters during sightings surveys July-August 1989
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T. Gunnlaugsson
- N:6 T. Haug Harp seal (Phoca groenlandica) invasions in north Norwegian coastal waters: a preliminary report on age composition and feeding habits
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- N:7 Withdrawn.
- N:8 H. Martins, Squid in the diet of sperm whales off the Azores
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- N:9 G. Garcia- Les mammifères marins du nord de l'Espagne en 1989
Castrillo et al.
- N:10 I. Christensen, A review of the distribution, migrations, food, reproduction, exploitation and present abundance of humpback whales (Megaptera novaeangliae) in the Northeast Atlantic
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- N:12 O. Stenman Organochlorines in Baltic seals in 1980s
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- N:13 O. Stenman Les populations de phoques dans le Golfe de Finlande au cours des années 1980
- N:14 Report of the Joint Meeting of the Working Group on
Ref.E Baltic Seals and the Study Group on the Effects of Contaminants on Marine Mammals, Stockholm, 14-17 May 1990
Sess.T
- N:15 List of publications of interest to the Marine Mammals Committee, 1989
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MINI-SYMPOSIUM ON BENTHIC ECOLOGY OF THE NORTH SEA

- Mini:1 A. Eleftheriou Planning and execution of the North Sea Benthos Survey and C. Heip
- Mini:2 A. Künitzer The benthic infauna of the North Sea: species distribution and assemblages et al.
- Mini:3 I. Kröncke Macrofauna standing stock of the Dogger Bank. A comparison: 1950-1954 versus 1985-1987
- Mini:4 H.L. Rees Spatial and temporal trends in the benthos and sediments in relation to sewage sludge disposal off the northeast coast of England et al.
- Mini:5 U. Niermann Oxygen deficiency in the southeastern North Sea in summer 1989
- Mini:6 A. Eleftheriou The sedimentary environment of the North Sea
- Mini:7 P.F. Kingston Impact of offshore oil production installations on the benthos of the North Sea
- Mini:8 R. Huys and Meiofauna of the North Sea Benthos Survey C. Heip
- Mini:9 G. Duineveld Geographical variation in the epifauna of the southern North Sea and adjacent regions and G.J. van Noort
- Mini:10 C. Heip Statistical analysis and trends in biomass and diversity of North Sea macrofauna et al.
- Mini:11 M. Bergman Direct effects of commercial beamtrawl fishing on benthic fauna in the North Sea et al.

REFERENCE POSTER FOR THE MINI-SYMPOSIUM

- L:103 C. Noji, Benthic activity and respiration in a northern Norwegian fjord in late autumn
Poster T. Noji and K.G. Barthel

PAPERS AND POSTERS FOR THESE SESSIONS

The Consumption Rate in Marine Fish (O) Convener: Mr. H. Sparholt, (Denmark)

F:8, G:3, G:6, G:11, G:16, G:17, G:18, G:19, G:22, G:31, G:34, G:35, G:36, G:51,
G:63, G:69, J:15

Remote Sensing Applications in Monitoring Programmes (P) Convener: Dr R. Dörffer
(Federal Republic of Germany)

B:13, C:11, C:12, C:14, C:15, C:29, C:33 (Poster), C:37, C:41, C:42, E:19, H:9,
K:14, L:94

Poster Session on Trophic Models of Marine Ecosystems(O) Conveners: Dr D. Pauly
(Federal Republic of Germany) and Mr V. Christensen (Denmark)

G:4, H:36, K:19, L:28 to and including L:47, and L:50 to and including L:73,
L:112, L:113, L:115, L:116

Acoustic Methods (R) Convener: Dr J. Traynor (USA)

B:2, B:4, B:9, B:10, B:11, B:12, B:21, B:22, B:23, B:24, B:30, B:31, B:33, B:38,
B:40, B:41, B:49, B:50, J:26, L:12, L:17 (Ref. from Session V: L:81)

ACFM and Associated Working Group Reports (S) Convener: Mr. D. de G. Griffith,
(Ireland)

Assess:1 to Assess:25 included, and Assess:28 and 29; G:10, G:70, H:3, H:21,
M:12

ACMP and Related Working Group Reports (T) Convener: Mr J. Jakobsson (Iceland)

Poll:1 to and including Poll:7; C:8, E:28, F:12, F:13, N:14

Fishing Gear Selectivity (U) Convener: Mr D.N. MacLennan (UK)

B:3, B:14, B:26, B:27, B:28, B:34, B:46, G:54, G:55

Recent Developments in the Measurement of Zooplankton Production Rates and
Biomass Characteristics (V) Conveners: Dr J. Gamble (UK) and Mr H. Skjolddal
(Norway)

L:10, L:15, L:25, L:26, L:27, L:74, L:75, L:77, L:78, L:79, L:80, L:81 (Ref. to
Session R), L:83, L:84, L:104, L:109

ASSESSMENT WORKING GROUPS REPORTS 1990

- Assess:1 Report of the Working Group on Multispecies Assessment of Baltic Fish, Moscow, 4-8 September 1989
- Assess:2 Report of the Irish Sea and Bristol Channel Working Group, Copenhagen, 13-19 September 1989
- Assess:3 Report of the Blue Whiting Assesement Working Group, Copenhagen, 13-19 September 1989
- Assess:4 Report of the Arctic Fisheries Working Group, Copenhagen, 19-28 September 1989
- Assess:5 Report of the Atlanto-Scandian Herring and Capelin Working Group, Copenhagen, 16-20 October 1989
- Assess:6 North Sea Flatfish Working Group, Copenhagen, 20-26 October 1989
- Assess:7 Report of the Roundfish Working Group, Aberdeen, 12-14 October 1989.
- Assess:8 Report of the Working Group on Harp and Hooded Seals, Bergen, 16-19 October 1989
- Assess:9 Report of the Working Group on Assessment of Pandalus Stocks, Copenhagen, 12-16 February 1990
- Assess:10 Report of the Division IIIa Demersal Stocks Working Group, Copenhagen. 28 February - 6 March 1990
- Assess:11 Report of the Working Group on North Atlantic Salmon, Copenhagen, 15-22 March 1990
- Assess:12 Report of the Working Group on Cod Stoks off East Grenland, Hamburg, 21-27 February 1990
- Assess:13 Report of the Industrial Fisheries Working Group, Copenhagen, 20-27 March 1990
- Assess:14 Report of the Herring Assessment Working Group for the Area South of 62°N, Copenhagen, 27 March - 6 April 1990
- Assess:15 Report of the Working Group on Methods of Fish Stock Assessments, Nantes, 10-17 November 1989
- Assess:16 Report of the Working Group on Nephrops, Nantes, 21-28 March 1990
- Assess:17 Report of the Working Group on Assessment of Demersal Stocks in the Baltic, Copenhagen, 17-26 April 1990
- Assess:18 Report of the Working Group on Assessment of Pelagic Stocks in the Baltic, Copenhagen, 17-26 April 1990
- Assess:19 Report of the Mackerel Working Group, Copenhagen, 24 April - 2 May 1990

- Assess:20 Report of the North-Western Working Group, Copenhagen, 1-8 May 1990
- Assess:21 Report of the Baltic Salmon and Trout Assessment Working Group, Copenhagen, 7-14 March, 1990
- Assess:22 Report of the Working Group on the Assessment of the Stocks of Hake, Copenhagen, 1-10 May 1990
- Assess:23 Report of the Working Group on Fisheries Units in Sub-areas VII and VIII, Nantes, 13-20 June 1990
- Assess:24 Report of the Working Group on the Assessment of Sardine, Horse mackerel, and Anchovy, Copenhagen, 20-29 June 1990
- Assess:25 Report of the Working Group on Multispecies Assessments of Baltic Fish, Gdynia, 6-10 August 1990
- Assess:26 Transferred to 1991.
- Assess:27 Transferred to 1991.
- Assess:28 Report of the Special Meeting of the Multispecies Assessment Working Group, Bergen, 23-27 April 1990
- Assess:29 ACFM comments on stock assessment working group reports: a supplement (for working groups) to the ACFM minutes of November 1989 and May 1990

ACMP - ADVISORY COMMITTEE ON MARINE POLLUTION

- ACMP:1* Agenda for the Advisory Committee on Marine Pollution -
 Consultations Meeting, 3 October 1990
- ACMP:2* Work Programme from the Oslo and Paris Commissions
- ACMP:3* Requests from the Helsinki Commission
- ACMP:4* Tasks for Study/Working Groups reporting to ACMP
- ACMP:5* Report on the Statistical Analysis of CMP Data on Conta-
 minants in Fish Liver and Mussels
- ACMP:6* Critical Review of Contaminants in Sediments
- ACMP:7* Results of the ICES Baseline Study on Trace Metals in
 Coastal and Shelf Waters

*For the relevant Committee only.

POLLUTION-RELATED WORKING GROUP REPORTS

- Poll:1
Ref. C and E Report of the Marine Chemistry Working Group, Copenhagen,
12-16 February 1990
- Poll:2
Ref. C and E Report of the Working Group on the Baltic Marine Environ-
ment, Tallinn, 10-12 April 1990
- Poll:3
Ref. E Report of the Working Group on Marine Sediments in Relation
to Pollution, Lisbon, 3-6 April 1990
- Poll:4
Ref. E Report of the Working Group on the Biological Effects of
Contaminants, Nantes, 24-27 April 1990
- Poll:5
Ref.E Report of the Working Group on Environmental Assessments
and Monitoring Strategies, Charlottenlund, Denmark, 23-27
April 1990
- Poll:6
Ref. D + E Report of the Working Group on the Statistical Aspects of
Trend Monitoring, Copenhagen, 30 April - 4 May 1990
- Poll:7
Ref.F + L Report of the Working Group on Phytoplankton and the
Management of their Effects, Oban, Scotland, 3-7 April 1990