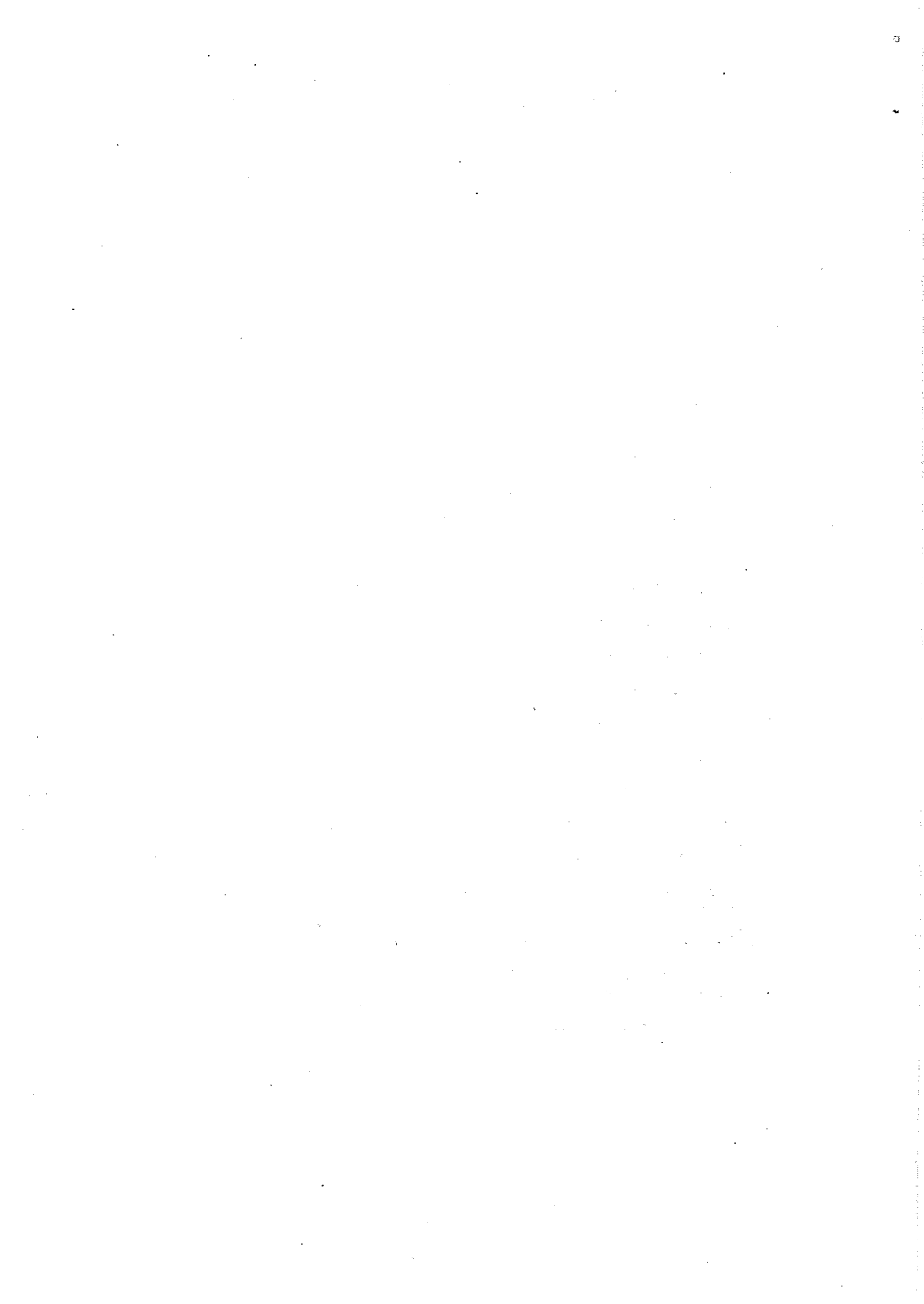


INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA
CONSEIL INTERNATIONAL POUR L'EXPLORATION DE LA MER

COUNCIL MEETING 1989

CONTRIBUTIONS TO BE PRESENTED AT THE 77TH STATUTORY MEETING

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GEN - GENERAL ASSEMBLY REPORTS AND PAPERS OF GENERAL INTEREST

- Gen:1 Observers' reports from cooperating organizations.
- Gen:2 ICES activities in 1988/1989
- Gen:3 Election of standing scientific Committee Chairmen at the 77th Statutory Meeting (E+F)
- Gen:4 Advance Release of Tables 1-6 of Bulletin Statistique, Vol. 73, 1988

(E+F) = in English and French.

DEL - DELEGATES DOCUMENTS

No.	Title
Del:1*	Audited Accounts for the Financial Year 1987/1988 with Balance Sheet at 31/10 1988
Del:2*	Preliminary report on administration for the year 1 November 1988 to 31 October 1989
Del:3*	Report on activities, 1989
Del:4*	Estimated accounts for the financial year 1988/1989
Del:5*	Draft budget for the financial year 1989/1990 (E+F)
Del:6*	Draft forecast budget for the financial year 1990/1991 (E+F)
Del:6* REVISED	Draft Forecast Budget for the financial year 1990/1991 (E+F)
Del:7*	Elections and appointments by the Council at the 77th Statutory Meeting (E+F)
Del:8*	USSR proposal for scale of national contributions to ICES budgets (E+F)
Del:9*	Composition and membership of ACMP
Del:10*	ACFM procedure for handling Working Group reports
Del:11*	Timing of Statutory Meeting
Del:12*	Upgrading of ICES computer system
Del:13*	Progress in the work of the North Sea Task Force
Del:14* Ref.A	Survey of ICES Working and Study Groups
Del:15* Ref.A	J.G. Pope The growth of ICES Working Groups
Del:16*	Acquisition of additional space at ICES Headquarters

*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 1988/1989
Pub:3* Sales of ICES publications during the last three years
Pub:4* Report from the Editors of the Journal du Conseil for the ICES year
1988/1989

REFERENCE PAPERS FOR THE PUBLICATIONS COMMITTEE

E:22 The Editor's report on Techniques in Marine Environmental Sciences
F:20 Report of the Editors of the Disease Sheets
L:23 Plankton Identification Sheets - Editor's report 1988/1989

*For the relevant Committee only.

A - CONSULTATIVE COMMITTEE

No.	Author(s)	Title
A:1*		Agenda for the Consultative Committee
A:2*		Report of the Programme Planning Group Meeting, ICES Headquarters, 1-2 June 1989
A:3*		Withdrawn.
A:4*		Minutes of ACFM Meeting, 23-31 May 1989
A:5*		Future ICES Symposia
A:6*		Minutes of ACMP Meeting, 20-29 June 1989
A:7*		Guidelines for drafting recommendations

REFERENCE PAPERS FOR THE CONSULTATIVE COMMITTEE

Del:14*		Survey of ICES Working and Study Groups
Del:15*	J.G. Pope	The growth of ICES Working Groups
G:7		Report of the Study Group on Feasibility of an Atlas of North Sea Fisheries, Lowestoft, 29-31 March 1989

*For the relevant Committee only.

B - FISH CAPTURE COMMITTEE

No.	Author(s)	Title
B:1		Report of Activities, 1988
B:2 Sess. 0	K.G. Foote	Wideband beam pattern
B:3 Sess. 0	K.G. Foote	Spheres for calibrating an eleven-frequency acoustic measurement system
B:4 Sess. 0	K.G. Foote	Calibration reflector
B:5 Sess. 0	K.G. Foote	Acoustic sampling volume for cod
B:6 Sess. 0	K.G. Foote	Simulating echograms
B:7 Sess. 0	K.G. Foote	Sound speed measurements of Antarctic krill
B:8 Sess.0	K.G. Foote <u>et al.</u>	Three-in-one transducer design for a triple frequency echo sounder
B:9 Sess. 0	H.P. Knudsen	Bergen echo integrator: an introduction
B:10		Report of the Joint Session of the FTFB and FAST Working Groups, Dublin, 26 April 1989
B:11 Sess.P	P.A.M. Stewart and R.D. Galbraith	Codend design, selectivity and legal definitions
B:12 Sess.P	S. Reeves, D.W. Armstrong and P.A.M. Stewart	The variation of selection range with net parameters
B:13 Sess.U	A. Järvik	Distribution pattern of the individual catch per unit of effort data
B:14	S.F. Efanov, I.G. Istomin and V.I. Rozhdestvenskaya	Pollack behaviour in trawls
B:15 Sess.P	S.F. Efanov <u>et al.</u>	Selectivity and survival rate of herring, passed through the net with different mesh forms

- B:16 N.V. Kokorin, Retention characteristics of hook fishing in relation to some fishes of the Baltic Sea
Sess.P S.F. Efanov and I.P. Shestopal
- B:17 S.M. Kasatkina Hydroacoustic estimate of krill aggregation characteristics and of catchability of midwater trawls used in krill fishery
Ref.K Sess.O
- B:18 M.L. Zaferman On fish injuring when escaping through the trawl mesh
Sess.P and L.I. Serebrov
- B:19 O.R. Godø On choosing optimum model of and trawl gear for assessing bottom fish abundance during surveys
and L.I. Serebrov
- B:20 K. Lange Design and operation of flexible sail kites
- B:21 S.J. Walsh Escapement of fish underneath the footgear of a groundfish survey trawl
- B:22 S.J. Walsh, Size selection of plaice by square and diamond mesh codends
Ref.G C. Cooper and W. Hickey
Sess.P
- B:23 S.J. Walsh Diel influences on fish escapement beneath a groundfish survey trawl
Ref.G
- B:24 J. Massé Daytime detected abundance from echosurveys in the Bay of Biscay (1983-1987)
Ref.H Sess.O
- B:25 Withdrawn.
- B:26 Withdrawn.
- B:27 L.G. Rudstam Acoustic fish abundance in a Baltic archipelago: comparison between results from echo integration and from analysis of echo peaks
Ref.J et al.
Sess.O
- B:28 Withdrawn.
- B:29 H. Stengel Hydrodynamical forces of plane nets in the region of small angles of attack ($<30^\circ$)
and ...Bedoorz
- B:30 A. Aglen Empirical results on precision/effort relationships for acoustic surveys
Ref.D Sess.O
- B:31 Withdrawn.
- B:32 E. Kirkegaard, Mesh selection of Nephrops in 60 and 70 mm Nephrops
Ref.K N.A. Nielsen and O. Bagge
Sess.P
- B:33 Withdrawn

- B:34 E. Dahm,
P. Suuronen
and E. Lehtonen Weathering experiments with netting material for fishing gear
- B:35 S. Ehrlich
Ref.D+G and
and H J. Gröger Diurnal variation in catchability of several fish species in the North Sea
- B:36 Withdrawn.
- B:37 Withdrawn.
- B:38 Withdrawn.
- B:39 F.A. Veenstra Safety-aspects in redesigning medium-sized beam trawlers
- B:40 Withdrawn.
- B:41 J. Krepa Catch rate in trawl fishery
- B:42 Report of the Working Group on Fishing Technology and Fish Behaviour, Dublin, 24-26 April 1989
- B:43 Report of the Working Group on Fisheries Acoustics Science and Technology, Dublin, 26-28 April 1989
- B:44 Report of the Study Group on Net Drawing, Brest, 16-19 May 1989
- B:45 N. Diner
Sess.0 et al. INES-MOVIES: A new acoustic data acquisition and processing system
- B:46 J.P. Hillis
Sess.P Further separator trawl experiments on Nephrops and whiting
- B:47 F. Gerlotto
Ref.D
Sess.0 Choice of a strategy for sampling and stratifying the fish concentrations in tropical echo integration
- B:48 L. Henvi,
Sess.P A Tretchev
and
S. Efanov Determination of the optimal mesh size in trawls with due account to different species' seasonal, regional and other changes of the exploited stock
- B:49 G. Thorsteinsson
Ref.K
Sess.P Icelandic experiments with square mesh netting in the shrimp fishery
- B:50 B. van Marlen A preliminary study on the landing capacity of stern freezer trawlers
- B:51 D. Tianyuan and
B. van Marlen Engineering trials on supermesh trawls GM 3 (4320 meshes circumference) made of polyamide and GM 6 (5640 meshes circumference) with a front part made of Dyneema SK-60
- B:52 W. van der Hak,
Ref.M
Sess.P J. van Willgen
and
W. Dekker Eel-net selectivity using a dual cod-end beam trawl

B:53 Sess.O	K. Olsen and I. Ahlquist	Target strength of fish at various depths, observed experimentally
B:54 Sess.P	J. Netzel and J. Zaucha	Investigation results of cod trawls' cod-end selectivity
B:55 Ref.G Sess.P	D. Armstrong <u>et al.</u>	Cod-end selectivity of cod, haddock, and whiting by Scottish trawlers and seiners
B:56 Sess.O	J. Simmonds	Report on the Fast Working Group Assessment of present acoustic survey on data analysis procedure

REFERENCE PAPERS FOR THE FISH CAPTURE COMMITTEE

K:13, K:27, L:21

C - HYDROGRAPHY COMMITTEE

No.	Author(s)	Title
C:1		Withdrawn.
C:2 Ref.K	D.A. Stolyarenko and S.E. Lobodenko	Studying of temperature fields with spline approximation technique
C:3	Li Honghai, J.J.M. van Haren and H.M. van Aken	Cluster analysis as a method to discriminate water masses in shelf seas
C:4		Report of the Shelf Seas Oceanography Working Group, Bidston, 4-6 April 1989.
C:5 Ref.E Sess.Q		Report of the Study Group on Patchiness in the Baltic, Gdansk, Poland, 11-12 April 1989
C:6		Report of the Working Group on Oceanic Hydrography, Gothenburg, 25-26 April 1989
C:7		Report of the Working Group on Marine Data Management, Lisbon, 9-12 May 1989
C:8	H.D. Dooley	Review of progress 1984-1989
C:9	H.M. van Aken	A phenomenological study of the Arctic Front in the West Spitzbergen Current
C:10	H.M. van Aken and L. Otto	The autumnal erosion of the seasonal stratification over the oyster grounds: description and heat budget
C:11 Ref.E	A.J. van Bennekom and L. Otto	Trend analysis of dissolved nutrients in the Southern Bight of the North Sea. Results and suggestions
C:12 Sess.Q	A. Svansson	Review of the hydrographical joint Skagerrak expedition in 1966
C:13	G.C. van Dam	Dispersion of dissolved matter in the North Sea
C:14	A.v.d. Giessen	On the 3-D density distribution in the Netherlands coastal zone
C:15	J.C. Borst <u>et al.</u>	Response to varying wind and river discharge conditions of the vertical residual current structure in front of the Dutch coast
C:16	R.A. Myers, J. Helbig and D. Holland	Seasonal and interannual variability of the Labrador current and West Greenland current
C:17		Withdrawn.

- C:18 B. Adlandsvik Wind-driven variations in the Atlantic inflow to
Ref. G+L the Barents Sea
- C:19 H. Loeng, Drifting Argos buoys in the Barents Sea
S. Sundby and
Ø. Østensen
- C:20 D. Slagstad, Density-driven currents in the Barents Sea calcu-
K. Støle Hansen lated by a numerical model
and H. Loeng
- C:21 H. Siegel Empirical algorithms for the determination of
Ref.L chlorophyll by remote sensing methods
- C:22 J. Meincke The Greenland Sea Project - a venture towards
better understanding of the role of the Greenland
Sea in ocean climate
- C:23 A. Schwarz An estimation of the heat transport in the
northeastern North Atlantic Ocean
- C:24 T. Gytre A field intercomparison between a miniature CTD in-
strument and the Neil Brown serial 1223 CTD
profiler
- C:25 Withdrawn.
- C:26 M. Visser and On the distribution of suspended matter in the
W.P.M. Ruijter Dutch coastal areas
- C:27 D. Visser Residual currents in the Southern Bight of the
North Sea
- C:28 R.R. Dickson, Monitoring the Denmark Straits overflow
E. Gmitrowicz
and A. Watson
- C:29 D.S. Kirkwood Simultaneous determination of selected nutrients in
Ref.E sea water
- C:30 D.S. Kirkwood Nutrient analyses during and subsequent to IYFS
Ref.E and
R.J. Chapman 1989
- C:31 K. Kahma and Seasonal variations of some nutrients in the Baltic
Ref.E A. Voipio Sea and the interpretation of monitoring results
- C:32 Report of the Marine Chemistry Working Group,
Ref.E Savannah, Georgia, USA, 13-17 February 1989
Sess.T
- C:33 C.M. Afonso Dias, Sea surface temperature seasonal variation between
Maria das Dores the Iberian coast (Lisbon) and the Madeira Islands
Vacas and (Funchal) in the period 1981-1986
A. Amorin
- C:34 C.M. Afonso Dias Observation of the Azores front in July 1987
and
J.L. Pissarra

- C:35. S. Fonselius Hydrographic variabilities in the Skagerrak surface
Sess.Q water
- C:36 Report of Study Group on Aerospace Remote Sensing
Ref.L
- C:37 M. Baeteman Nutrients in Belgian continental shelf waters: ten
Ref.E and W. Vyncke years' survey (1978-1987)
- C:38 M. Deville Comparison of numerical methods applied to ad-
vection-diffusion equation
- C:39 O. Marchal Interpretation of the colour spectra of sea waters
in function of their phytoplankton components
- C:40 J.C. Nihoul Mathematical visualization of the general circula-
tion.
- C:41 C.S.Yu, Hydrodynamic modelling of the North Sea
M. Fettweis
and
J. Berlamont
- C:42 Ir.D. van den Eynde On the introduction of refraction effects in a wave
and prediction model
Ir. J. Monbaliu
- C:43 G. De Moor Volumetric analysis of residual sediment migrations
et al. on continental shelf sand banks in the Southern
Bight (North Sea)
- C:44 I. Hermans Wave modelling at the Belgian coast by means of the
Hypas model
- C:45 R. Houthuys Small-scale depositional structures of surface
sediments of the Flemish banks
- C:46 I. Hermans and Evaluation of the harmonic method for predicting
C. Van Cauwenberghe Belgian coastal tides
- C:47 J. Lanckneus Acoustic teledetection of shelf bedforms on the
et al. Flemish Banks and their meaning for the sediment
dynamics

REFERENCE PAPERS FOR THE HYDROGRAPHY COMMITTEE

E:6, E:14, G:19, H:8, H:18, J:20, K:28, L:17, M:23

D - STATISTICS COMMITTEE

No.	Author(s)	Title
D:1 Ref.K	G.Y. Conan, D. Parsons and E. Wade	Geostatistical analysis, mapping and global estimation of harvestable resources in a fishery of Northern Shrimp (<i>Pandalus borealis</i>)
D:2 Ref.G	V.V. Blinov	Cohorts theory of fishing selectivity
D:3 Ref.K Sess.U	D.A. Stolyarenko	A geographic information system for a fish survey
D:4	E. Ferrandis	Stochastic models for fish population dynamics I: through Gaussian processes and generalized Brownian motion
D:5	E. Ferrandis	Stochastic models for fish population dynamics II: the generalized Brownian motion and the likelihood estimation of the separable model parameters
D:6	E. Ferrandis	Stochastic models for fish population dynamics III: stock and yield
D:7		Withdrawn.
D:8 Ref.G+H	R.A. Myers	The analysis of density-dependent factors and environmental variation on growth rate
D:9	J.M. Hoenig and C.M. Heywood	Using model predictions as an auxiliary variable to reduce variance in a fishery survey
D:10 Ref.H+L	M.H. Prager and J.M. Hoenig	Superposed epoch analysis for significance tests of environmental effects on recruitment: application to chub mackerel
D:11 Ref.L	J.M. Hoenig and M.H. Prager	A general randomization-test framework for testing hypotheses about recruitment time series
D:12		Withdrawn.
D:13		Withdrawn.
D:14		Withdrawn.
D:15 Ref.G Sess.U	R.A. Myers and K. Stokes	Density-dependent habitat utilization of groundfish and the improvement of research surveys
D:16		Withdrawn.
D:17		Withdrawn.

- D:18 R. Millar Comparison of methods for estimating mixed stock
Ref.M fishery composition
- D:19 V. Christensen HECAST - a working group catch statistics spread
Ref.H sheet package
- D:20 J. Horbowy The differential alternative to the Deriso
Ref.J difference production model
- D:21 ICES Progress Report, 1988/1989
Statistician
- D:22 M. Pennington Optimum size of sampling unit for estimating the
Ref.K and density of marine populations
J.H. Vølstad
- D:23 W.D. Tesler, An approach to methods of multidisciplinary surveys
K.I. Yudanov of marine living resources
and
I.L. Kalikhman
- D:24 N. Bailey Investigation of the sensitivity of Jones' length-
and based cohort analysis to input parameters using the
P. Kunzlik FAST method
- D:25 V.V. Blinov Analysis of anomalies in VPA estimates of some fish
species in the North-East Atlantic and Baltic Sea
- D:26 H. Dupouy, Estimation des paramètres de croissance du lieu
Ref.G D. Christien et jaune (Pollachius pollachius) de la sous-aire VII du
B. Kergoat CIEM par utilisation des techniques de rééchantillonnage (Bootstrap) pour l'ajustement au modèle de von Bertalanffy
- D:27 H. Dupouy Estimation de la mortalité par pêche des baudroies
Ref.G par l'analyse rectifiée des pseudocohortes dans les
sous-aires VII et VIII du CIEM
- D:28 J.M. Hoenig, Estimating relative survival rate for two groups of
Ref.L P. Pepin and larval fishes from fish data: do older larvae
W.D. Lawing survive better than young?
- D:29 J.H. Vølstad A spatial model for the assessment of a population
Ref.K and of Chlamys islandica (O.F. Müller)
R.M. West

REFERENCE PAPERS FOR THE STATISTICS COMMITTEE

B:30, B:35, B:47, E:13, G:4, G:64, J:5, J:6, J:13, K:5, K:10

K:19, K:24 (Poster), K:32, K:35, K:38

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

No.	Author(s)	Title
E:1		Report of Activities, 1988
E:2 Sess.T		Report of the Working Group on Marine Sediments in Relation to Pollution, Savannah, Georgia, USA, 20-23 February 1989
E:3 Ref.G	G. Staveland and I. Marthinsen	Growth, condition, and PCB content of cod (<u>Gadus morhua</u> L.) and flounder (<u>Platichthys flesus</u> L.) in the Hvaler area, southern Norway
E:4	H. Büther	Organochlorine compounds in marine organisms from the international North Sea incineration area - preliminary results
E:5	D. Cossa <u>et al.</u>	Metals and organochlorines in the muscle tissue of the flounders (<u>Platichthys flesus</u>) from north and western French coastal waters
E:6 Ref.C Sess.T		Report of the Working Group on Baltic Marine Environment, Sopot, Poland, 13-14 April 1989
E:7	V. Tervo and L. Niemistö	Trace metals, carbon, nitrogen and phosphorus concentrations in sediments in the northern parts of the Baltic Sea
E:8	V. Dethlefsen	Ecosystems' changes in the German Bight as a result of contamination - a review
E:9	V. Dethlefsen	How to monitor the impact of contaminants on fish reproduction?
E:10 Sess.R	S.A. Gerlach	Input and concentrations of phosphorous and nitrogen, and phytoplankton in the German Bight
E:11 Ref.K Sess.R	S.A Murawski, T. Azarovitz and D. Radosh	Long-term biological effects of hypoxic water conditions off New Jersey, USA, 1976-1989
E:12		Withdrawn.
E:13 Ref.D Sess.T		Report of the Working Group on the Statistical Aspects of Trend Monitoring, The Hague, 24-27 April 1989.
E:14 Ref.C	C.F. Fileman and D.J. Harper	Depth profiles of cadmium, copper, lead, and mercury in seawater at the ICES reference station 60°30'N, 5°00'W
E:15	R.J. Law	The fourth round hydrocarbon intercomparison programme: Report of Progress to April 1989
E:16	S.M. Rowlatt <u>et al.</u>	Sediment quality off the northeast coast of England

- E:17 D. Bucke Observations on visceral granulomatosis and dermal necrosis in populations of North Sea cod, Gadus morhua
Ref.G
- E:18 Report of the Working Group on Environmental Assessments and Monitoring Strategies, Brest, 24-28 April 1989
Sess.T
- E:19 Report of the Working Group on the Biological Effects of Contaminants, Aberdeen, 9-12 May 1989
Sess.T
- E:20 Report of the Meetings of the Sub-Group on Baltic Sediments, Tallinn, USSR, 13-15 September 1988 and Sopot, Poland, 11-12 April 1989
- E:21 Report of the Working Group on the Effects of Extraction of Marine Sediments, Uppsala, 9-12 May 1989
- E:22 The Editor's Report on Techniques in Marine Environmental Sciences
Ref.
Pub
- E:23 Draft Code of Practice on the Effect of the Extraction on Marine Minerals on Fisheries
- E:24 S. Engström Hypoxia and eutrophication in the southern Kattegat and
Sess.R S. Fonselius
- E:25 S.A. Shumway A review of the effects of algal blooms on shellfish and aquaculture
Ref.F
Sess.R
- E:26 C.J. Sindermann Pollution-associated disease conditions in estuarine/coastal fish and shellfish: A status report and perspective for the 1990s
- E:27 R.S. Rosell Eutrophications of Belfast Lough, Northern Ireland, in relation to nutrient loading from anthropogenic sources
Sess.R
- E:28 K. Tiews 35 years' abundance trends (1954-1988) of 25 fish and crustacean stocks on the German North Sea coast
Ref.G
- E:29 K. Delbeke Distribution of organochlorine residues between different fractions of sediments and between different planktonic compartments in the Scheldt estuary and Belgian coastal zone
et al.
- E:30 E. Temmermann, Determination of mercury and thallium in the North Sea and in the Scheldt estuary
C. Vandecastelle
and R. Dams
- E:31 V. Van Alsenoy Chemical characterization of suspensions and sediments in the North Sea and Scheldt estuary
et al.
- E:32 P. Regnier, The potential use of sediments and suspended matter as a monitoring tool for pollution in estuaries and coastal regions
R. Wollast and
M. Hoenig

- E:33 W. Baeyens Stable pollutants in the eastern part of the North Sea
- E:34 D. Maertens Ecological monitoring of the new dumping area on
Ref.L the Belgian continental shelf
- E:35 Ph. Otten Chemical composition, source identification and
et al. quantification of the atmospheric input into the North Sea
- E:36 M. Vincx The influence of the Western Scheldt on the meio-
Ref.L and benthos of the Belgian coastal area
R. Herman
- E:37 F. Monteny Stable pollutants in the Scheldt estuary
et al.
- E:38 Zhang Hao Distribution and speciation of Co and Ni in the
and Scheldt estuary
R. Wollast
- E:39 I.P. Migalovsky Influence of surfactants on early life stages of
and marine fishes under the experimental conditions
V.V. Kosheleva
- E:40 ICES/IOC Workshop on Biological Effects of Con-
taminants, Bremerhaven, Federal Republic of
Germany, 12-30 March 1990

REFERENCE PAPERS FOR THE MARINE ENVIRONMENTAL QUALITY COMMITTEE

C:5, C:11, C:29, C:30, C:31, C:37, F:8 (Poster), F:10, F:11, F:14, F:18,
G:5 (Poster), G:48, G:49, L:19, L:20, L:28, M:4, N:9, N:12, N:14

F - MARICULTURE COMMITTEE

No.	Author(s)	Title
F:1		Report of Activities, 1988
F:2	D.W. Bruno A.L.S. Munro and J.G. McHenry	Potential of carbaryl as a treatment for lice infestation of farmed salmon
F:3 Ref.G	T.V. Andreasen, T Haug and E Ringø	Food, condition, and the lipid and protein contents of young Atlantic halibut (<u>Hippoglossus hippoglossus</u> L.) captured in the autumn in north Norway
F:4		Report of the Working Group on Mass Rearing of Juvenile Marine Fish, Palavas-les-Flots (France), 16-19 June 1989
F:5 Ref.M	J. Gabaudan, R. Métallier et J. Guillaume	Nutrition comparée de la truite arc en ciel (<u>Oncorhynchus mykiss</u>), la truite Fario (<u>Salmo trutta</u>) et le saumon coho (<u>Oncorhynchus kisutch</u>). Effets des taux de protéines totales et de lipides
F:6		Report of the ICES Workshop on Nematode Problems in North Atlantic Fish, Kiel, 3-4 April 1989
F:7 Ref.K	M.N.L. Seaman	Overwintering of oysters, <u>Crassostrea gigas</u> , in air (preliminary results)
F:8 Ref.E POSTER	H. Möller and K. Anders	Diseases and parasites of marine fishes - 100 transparencies
F:9		Withdrawn.
F:10 Ref.E	T. Mäkinen	Fish culture and environmental impacts in Finland
F:11 Ref.E Sess.T		Working Group on Environmental Impacts of Mariculture, Oban, Scotland, 19-24 April 1989
F:12	U. Kils	Some aspects of schooling for aquaculture
F:13		Withdrawn.
F:14 Ref.E Sess.T		Report of the Working Group on Pathology and Diseases of Marine Organisms, Kiel, 5-8 April 1989
F:15 Ref.M and Addendum		Genetic Threats to Wild Atlantic Salmon Stocks. Report of a Joint Meeting between the ICES Working Group on Introductions and Transfers of Marine Organisms, the ICES Working Group on Genetics, and NASCO representatives, Dublin, 23 May 1989
F:16		Report of the Working Group on Introductions and Transfers of Marine Organisms, Dublin, 23-26 May 1989

- F:17 Report of the Working Group on Genetics, Dublin,
23-26 May 1989
- F:18 Report of the Working Group on Harmful Effects of
Ref. E, K+L Algal Bloom on Mariculture and Marine Fisheries,
Sess.T Nantes, 11-14 April 1989
- F:19 Ø. Berg Preliminary report on the effects of temperature on
et al. the development of eggs and larvae of halibut
(Hippoglossus hippoglossus) and on the bacterial
population in the incubators
- F:20 Report of the Editors of the Disease Sheets
Ref. Pub
- F:21 Withdrawn.
- F:22 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:23 H. Rosenthal The effect of a salmon cage culture on the benthic
and community in a largely enclosed bay (Dark Harbour,
R.W. Rangeley Grand Manan Island, N.B. Canada)
- F:24 Publications of interest to the Mariculture Com-
mittee

REFERENCE PAPERS FOR THE MARICULTURE COMMITTEE

E:25, K:21, K:22, M:16

G - DEMERSAL FISH COMMITTEE

No.	Author(s)	Title
G:1		Report of Activities, 1988
G:2		Report of the Study Group on Recruitment Indices of Hake from the Southern Stock, Lisbon, 21-24 February 1989
G:3	R. Nilsen <u>et al.</u>	Population parameters of the witch, <u>Glyptocephalus cynoglossus</u> (L.) (Pisces: Pleuronectidae) from Malangen, northern Norway
G:4 Ref.D	R.M. Cook	Assessing a fish stock with limited data: an example from Rockall haddock
G:5 Ref.E Poster	J. Vazquez and J. Paz	Infestation of cod by <u>Lernaecera branchialis</u> L. in ICES Division IIb in summer 1988
G:6	V.P. Serebryakov	Common reproductive zones of food fishes in the North Atlantic
G:7 Ref.A+H		Report of the Study Group on Feasibility of an Atlas of North Sea Fishes, Lowestoft, 29-31 March 1989
G:8	V.P. Ponomarenko	On the structure of the population of cod <u>Gadus morhua</u> from the Lofoten-Barents Sea area proceeding from knowledge of their biology
G:9	V.P. Ponomarenko	Potential possibilities of fishing for Polar cod (<u>Boreogadus saida</u> Lepechin) in Arctic seas
G:10 Ref.K	N.A. Yaragina	Seasonal growth variations in the Barents Sea cod
G:11	K.F. Artemjeva and R.V. Melyantsev	Evaluation of heterogeneity of the Lofoten-Barents Sea cod stock
G:12	M.S. Shevelev, A.V. Dorchenkov and A.P. Shvagzhdis	USSR research on cod and haddock in the Barents Sea and adjacent waters in 1988
G:13	A.P. Shvagzhdis	Fecundity dynamics of the Barents Sea plaice (<u>Pleuronectes platessa</u> L.) population
G:14	M.V. Kovtsova	Populational fecundity and year-class strength of Arcto-Norwegian haddock
G:15	A.V. Dolgov	On daily intake and feeding rhythm of the Barents Sea haddock
G:16	A.I. Pavlov, A.S. Gorelov and I.A. Oganin	Larval distribution, elimination indices and spawning stock assessment for beaked redfish (<u>Sebastes mentella</u> Travin) in the Irminger Sea in 1984-1988

- G:17 A.I. Pavlov et al. The results of USSR investigations of Sebastes mentella Travin in ICES Sub-areas XII, XIV in 1981-1988
- G:18 A.I. Pavlov and A.G. Galuzo Assessment of redfish stocks and (Sebastes mentella) in terms of conception of homogeneity of the species in the North Atlantic
- G:19 S. Sundby and P. Fossum Feeding conditions of North-East Arctic (Arcto-Norwegian) cod larvae compared to the Rothschild-Osborn theory on small-scale turbulence and plankton contact rates
- G:20 Withdrawn.
- G:21 Report of ad hoc Study Group on Juvenile Sole Tagging, Ostende, 10-12 March 1987
- G:22 P. Grotnes A Rosa Lee phenomenon as indicator of heavy mortalities during transition of 0-group cod from the pelagic to the benthic stage
- G:23 R. de Clerck and D. Buseyne On the feeding of plaice (Pleuronectes platessa L.) in the southern North Sea
- G:24 A. Yatsu and O. Jørgensen Distribution and biology of oceanic redfish, Sebastes mentella 'oceanic' type, off East Greenland in June/ July 1988
- G:25 A. Yatsu and O. Jørgensen Groundfish biomass estimates and biology of redfish (Sebastes mentella and Sebastes marinus) and Greenland halibut (Reinhardtius hippoglossoides) from a stratified-random trawl survey off East Greenland in 1988
- G:26 A.C. Fariña and R. Morlan Data on Spanish trawl and longline in the West Ireland demersal fishery
- G:27 Withdrawn.
- G:28 P. Lucio and I. Martin Biological aspects of hake (Merluccius merluccius L. 1758) in the Bay of Biscay in 1987 and 1988
- G:29 T. Jakobsen Biological reference points for Northeast Arctic cod and haddock
- G:30 D. Dorel, Y. Desaunay et J. Marchand Prise en compte des migrations saisonnières des soles juvéniles pour l'estimation d'abondance des pré-recues sur une nourricerie (Golfe de Gascogne, France)
- G:31 M. Fonds et al. Metabolism, food consumption, growth, and food conversion of shorthorn sculpin (Myoxocephalus scorpius) and eelpout (Zoarces viviparus)

- G:32 I. Peronnet et J-J. Rivoalen Mise au point d'une technique de détermination de l'âge pour la cardine (Lepidorhombus wiffiaconis) à partir des rayons épineux de la nageoire caudale. Validation de la méthode par comparaison avec les résultats obtenus par otolithométrie
- G:33 N.R. Hareide Report from a Norwegian research cruise on ling (Molva molva) and tusk (Brosme brosme) along the continental shelves off the British Islands, Norway, Rockall, and the Faroe Islands, during April-May 1989
- G:34 P. Grotnes and N.R. Hareide Assessment of the stocks of ling (Molva molva) and tusk (Brosme brosme) around the Faroe Islands in the period 1971-1987
- G:35 D. Otterlei, N.R. Hareide and P. Grotnes The growth of ling (Molva molva) along the continental shelves off Norway, Shetland, the Faroes, Rockall, and the Hebrides
- G:36 Ph. Moguedet Estimate of ling (Molva molva L.) length composition in landings of Spanish trawlers
- G:37 C. Piñeiro and J.J. Hunt Comparative study on growth of European hake (Merluccius merluccius L.) from southern stock using whole and sectioned otoliths, and length frequency distributions
- G:38 M.R. Martins, M.M. Martins and F. Cardador Portuguese fishery of black scabardfish (Aphanopus carbo Lowe, 1839) off Sesimbra waters
- G:39 A. Hylen et al. Estimates of stock size of cod, haddock, redfish, and Greenland halibut in the Barents Sea and the Svalbard area autumn 1988
- G:40 Ref.H Preliminary report on the international O-group fish survey in the Barents Sea and adjacent waters in August-September 1989
- G:41 Ref.H+L Report of the Planning Group on the Stomach Sampling Project for 1991, Lowestoft, 6-7 April 1989
- G:42 T. Jakobsen et al. Estimates of stock size of north-east Arctic cod and haddock, Sebastes mentella and Sebastes marinus from survey data, winter 1989
- G:43 Sess.U A. Carpentier, M. Lemoine and A. Souplet Description and first results of a new groundfish survey in the English Channel
- G:44 Withdrawn.
- G:45 Ref.L F.A. van Beek Egg production of North Sea sole in 1988
- G:46 F.A. van Beek, P.I. van Leeuwen and A.D. Rijnsdorp On the survival of plaice and sole discards in the otter trawl and beam trawl fisheries in the North Sea

- G:47 Withdrawn.
- G:48 E. Ebeling Food preferences and diseases of Myxocephalus
Ref.E and scorpius in the German Bight
S. Alshuth
- G:49 S. Alshuth A survey of the diet and diseases of Gadus morhua
Ref.E and around Helgoland in the German Bight
E. Ebeling
- G:50 R.S. Millner Preliminary results of a beam trawl survey for sole
and and plaice in the Eastern English Channel
C.L. Whiting
- G:51 S. Warnes Spawning migrations of north-east Arctic cod
- G:52 Report on the 0-group fish survey in Icelandic and
Ref.H+L East Greenland waters, August 1989
Sess.U
- G:53 A. Hysten, Effect of age composition on the spawning period and
B. Ellertsen and the strength of successive year classes of Arcto-
P. Solemdal Norwegian cod (Gadus morhua L.)
- G:54 Report of the Study Group on Elasmobranch Fisheries,
Ref.H Dublin, 26-28 April 1989
- G:55 Report of the Workshop on Stomach Evacuation Rates
Ref.H + L in Fish, Lowestoft, 3-5 April 1989
- G:56 Withdrawn.
- G:57 J.P. Hillis Effects of consideration of value on fish stock
Sess.S assessments
- G:58 D.J. Agnew The distribution and biology of hake (Merluccius
merluccius) subject to the Northern Ireland spring
fishery
- G:59 E. Fahy Growth parameters of rays (Batoidei) in Irish
waters, from material examined in commercial catches
- G:60 E. Fahy Segregation of rays in commercial catches
- G:61 E. Fahy The post-peak yield gillnet fishery for spurdog
and P. Gleeson (Squalus acanthias) in Western Ireland
- G:62 P. Petitgas Applying stationary geostatistics to fisheries: a
Sess.U and study on hake in the Bay of Biscay
Poster J.C. Poulard
- G:63 B.E. Steinarsson, Preliminary report on recent investigations on bio-
G. Jónsson and logy and catch and effort data on witch (Glypto-
H. Gudfinnson cephalus cynoglossus) in Icelandic waters
- G:64 B.J. Rothschild The use of life-table eigenstructures in fisheries
Ref.D and biological oceanography

REFERENCE PAPERS FOR THE DEMERSAL FISH COMMITTEE

B:23, B:35, B:55, C:18, D:2, D:8, D:15, D:26, D:27, E:3, E:17, E:28,
F:3, H:2, H:3, H:54, K:14, L:29, M:13

H - PELAGIC FISH COMMITTEE

No.	Author(s)	Title
H:1		Report of Activities, 1988
H:2 Ref.G		Report of the Working Group on International Young Fish Surveys, Copenhagen, 10-12 January 1989
H:3 Ref.G		Report of the Planning Group for Acoustic Surveys in Sub-area IV and Division IIIa, Copenhagen, 3 April 1989
H:4 Sess.U Poster	M. Walsh and E. Armstrong	Results of an acoustic survey for herring in the Firth of Clyde during July 1988
H:5 Sess.U Poster	P.W. Rankine	A report on the ICES herring larval surveys in the North Sea and adjacent waters in 1988/1989
H:6		Report of the Planning Group for Acoustic Surveys in ICES Sub-areas VIII and IX, Vigo, 5-7 April 1989
H:7 Sess.U	Yu.V. Chuksin and N.A. Nazarov	Peculiarities in distribution and behaviour of horse mackerel in the northeast Atlantic
H:8 Ref.C+L Sess.U	I.K. Sigaev, V.N. Feldman and E.M. Karasjova	Distribution of Müller's pearlsides (<u>Maurolicus muellery</u> (Gmelin) in the North Atlantic relative to oceanological conditions
H:9	N.A. Isaev and A.S. Seliverstov	Population structure of the Herbrido-Norwegian stock of blue whiting
H:10 Sess.U	S.V. Belikov, N.A. Isaev and O.A. Khrarov	Results from the USSR blue whiting surveys in the Northeast Atlantic in spring 1988
H:11 Sess.U	S.V. Belikov and J. Molloy	Results from the USSR blue whiting surveys in the North-East Atlantic in spring 1988
H:12 Sess.U	A.B. Karasev	Differentiation of blue whiting populations using the parasite indicator <u>Myxobolus aeglefini</u>
H:13	M.F. Borges	Results of the horse mackerel (<u>Trachurus trachurus</u> L.) otolith exchange programme during 1988-1989
H:14	S. Alshuth	Variation in growth of adult North Sea sprat (<u>Sprattus sprattus</u> L.)
H:15	S. Alshuth	Growth of larval and juvenile North Sea sprat, based on otolith growth increments
H:16	S.A. Iversen <u>et al.</u>	The egg production and spawning stock size of the North Sea mackerel and horse mackerel stocks in 1988

- H:17 M. Pérez,
I. Figueiredo
and A. Miguel
Santos Batch fecundity of Sardina pilchardus off the
Iberian Peninsula, ICES Divisions VIIIc and IXa
- H:18 J.M. Cabanas,
Ref. C. Porteiro
C+L and M. Varela A possible relation between sardine fisheries and
oceanographic conditions in Spanish coastal waters
- H:19 Withdrawn.
- H:20 S.A. Iversen
and D.W. Skagen Migration of Western mackerel to the North Sea
1973-1988
- H:21 D.W. Skagen Growth patterns in the North Sea and Western
mackerel in Norwegian catches 1960-1985
- H:22 I. Røttingen Reappearance of Norwegian spring-spawning herring
on spawning grounds south of 60° N
- H:23 N. Pérez,
Ref.L A. García,
N.C.H. Lo and C. Franco The egg production method applied to the spawning
biomass estimation of sardine (Sardina pilchardus
Walb.) at the North Atlantic Spanish coasts
- H:24 I. Martin
and A. Uriarte Stock assessment of the Bay of Biscay anchovy and
catch predictions for 1989
- H:25 J. Santagio
Ref.L and A. Sanz Egg production of the Bay of Biscay anchovy in 1987
and 1988, and spawning stock size estimates
- H:26 Withdrawn.
- H:27 P. Lucio and
Poster I. Martin Biological aspects of mackerel (Scomber scombrus L.
1758) in the Bay of Biscay in 1987 and 1988
- H:28 P. Lucio and
I. Martin Biological aspects of horse mackerel (Trachurus
trachurus L. 1758) in the Bay of Biscay in 1987 and
1988
- H:29 I. Martin The fisheries of the Mediterranean horse mackerel
(Trachurus mediterraneus Steindachner 1868) and
Spanish mackerel (Scomber japonicus Houttuyn, 1782)
in the Basque Country in 1987 and 1988
- H:30 J. Santiago
Ref.L and P. Lucio Distribution and abundance of mackerel, horse
Sess.U mackerel and pilchard eggs in the Bay of Biscay
Poster 1988
- H:31 Withdrawn.
- H:32 Withdrawn.
- H:33 J. Santiago
and A. Sanz Daily fecundity of the Bay of Biscay anchovy po-
pulation in 1988
- H:34 I. Martin Catch of small pelagic species by the live bait
boats of the Basque Country in 1987 and 1988

- H:35 Withdrawn.
- H:36 Withdrawn.
- H:37 E. Kirkegaard Report on herring acoustic surveys in the North
et al. Sea, and Kattegat and Skagerrak during summer 1988
- H:38 G. Joakimsson Diurnal variation in the vertical distribution of
Ref.L and herring larvae
Sess.U D. Schnack
Poster
- H:39 F. Cardador Effects of management strategies on the catch of
Sess.S hake, horse mackerel, blue whiting, and Nephrops in
ICES Divisions VIIIc and IXa
- H:40 I.M. Figueiredo Reproductive biology of Sardina pilchardus: season-
and A.M. Santos al maturity evolution (1986-1988)
- H:41 M.E. Cunha Estimation of sardine spawning biomass off Portugal
Ref.L et al. by egg production method
- H:42 A. Sanz, Daily fecundity of the Bay of Biscay anchovy
L. Motos and population in 1987
A. Uriarte
- H:43 A. Eltink Validation of ageing techniques on otoliths of
and horse mackerel (Trachurus trachurus L.)
J.C. Kuitert
- H:44 A. Eltink The total fecundity of western horse mackerel
and (Trachurus trachurus L.)
B. Vingerhoed
- H:45 V. Christensen Estimation of larval growth rates from herring
Ref.L and P. Munk larvae surveys
- H:46 Withdrawn.
- H:47 D. Minchin and Some fishes associated with blue whiting on the
N.A. Isaev 1989 cruise of the R.V. "Professor Marti"
- H:48 M. Walsh and Estimation of atresia in the western mackerel stock
P.J. Hopkins
- H:49 S. Coello, Incidence of abortive maturation in the western
W.A. Dawson stock of the North-East Atlantic mackerel (Scomber
and A.S. Grimm scombrus) during the 1987 spawning season
- H:50 C.M. Afonso Dias, Acoustic observation of the vertical distribution
Sess.U V. Marques and of adult and juvenile sardine, Sardina pilchardus
E. Soares (Walb.) off the Portuguese coast
- H:51 C.M. Afonso Dias Note on the acoustic observation of blue whiting
and E. Soares (Micromesistius poutassou Risso) off the Portuguese
coast
- H:52 C.M. Afonso Dias, Acoustic abundance estimation of sardine (Sardina
E. Soares and pilchardus, Walb.) off the Portuguese coast - July-
V. Marques August 1988

H:53 P. Freon,
Sess.O M. Soria
and
F. Gerlotto

Short-term variability of Sardinella aurita aggregations and consequences on acoustic survey results

H:54
Ref.G

Report on the International Young Fish Survey in the North Sea, Skagerrak, and Kattegat in 1989

REFERENCE PAPERS FOR THE PELAGIC FISH COMMITTEE

B:24, D:8, D:10, D:19, G:7, G:40, G:41, G:52, G:54, G:55, L:3, M:13

J - BALTIC FISH COMMITTEE

No.	Author(s)	Title
J:1		Report of Activities, 1988
J:2		Study Group on Cod Stomach Data for the Baltic, Gdynia, 23-27 January 1989
J:3	O Bagge and E. Steffensen	The catch-per-unit of effort of cod, plaice, dab, and flounder in the western Baltic 1962-1988 estimated from the Bagenkop fleet
J:4	R.A. Aps	A century of sprat biology investigations in the northern Baltic
J:5 Ref.D	R.A. Aps <u>et al.</u>	Variability of shape of the Baltic sprat otoliths
J:6 Ref.D	R.A. Aps <u>et al.</u>	Allometric growth of the Baltic sprat
J:7		Withdrawn.
J:8	T. Raid and A. Lankov	Some aspects of distribution of young herring in the Gulf of Finland
J:9		Withdrawn.
J:10	L. Ustinova	Growth of sprat in the eastern Baltic
J:11		List of publications related to the interest of the Baltic Fish Committee
J:12 Sess.S	O. Rechlin	On biological reference points of some pelagic fish stocks in the Baltic Sea
J:13 Ref.D	M. Berner and H. Müller	Discrimination between "Baltic cod" (<u>Gadus morhua callarias</u> L.) and "Belt Sea cod" (<u>Gadus morhua morhua</u> L.) by means of morphometric and meristic characters
J:14	E. Aro, I. Vuorinen and J. Flinkman	The prey preference of Baltic herring in the northern Baltic Sea
J:15	E. Aro and P. Kotilainen	Density-dependent growth of Baltic herring in the Gulf of Finland, northern Baltic proper and the Bothnian Sea in 1978-1987
J:16	F.W. Köster	Feeding activity of Baltic herring in the Bornholm Basin
J:17		Withdrawn.
J:18	A. Müller	Stomach investigation on cod in the Kiel Bay (western Baltic)

- J:19 K. Wieland Small-scale vertical distribution and mortality of cod and sprat eggs in the Bornholm Basin (Baltic Sea) during two patch studies in 1988
Ref.L
- J:20 K. Wieland Vertical distribution of cod and sprat eggs in the central Bornholm Basin (Baltic Sea) related to different hydrographic conditions in 1986 and 1988
Ref.C+L
Sess.U
- J:21 Report of the Planning Group for Hydroacoustic Surveys in the Baltic, Copenhagen, 10-11 April 1989
- J:22 Withdrawn.
- J:23 T. Lang Lernaeocera branchialis in cod (Gadus morhua) of the Baltic Sea
- J:24 O. Bagge Danish discards in Sub-division 22 in 1988 and in 1978-1989 as indicator of strength of year classes
- J:25 J. Netzel and J. Kuczynski Biomass of flounder in the Gulf of Gdansk estimated by the swept area method
- J:26 O. Hagström et al. Acoustic estimates of the herring and sprat stocks in the Baltic proper October 1988
- J:27 R. Parmanne The size of Baltic herring in the Finnish fishery in 1974-1988
- J:28 A. Orlowski Preliminary results of an acoustic survey of fish stock abundance in the Polish fishery zone, October 1988 (R.V. "Argos" and cutter WLA 302)
- J:29 J. Netzel Analyses of Polish Baltic catches in relation to the total power of the Polish fishing fleet in the period 1948-1988
- J:30 J. Netzel Migration of tagged Baltic cod in Gdansk Deep area in relation to its deep water layer environmental condition

REFERENCE PAPERS FOR THE BALTIC FISH COMMITTEE

B:27, D:20

K - SHELLFISH COMMITTEE

No.	Author(s)	Title
K:1		Report of Activities, 1988
K:2	W. Sterk and F Redant	Further evidence on biennial spawning of the Norway lobster, <u>Nephrops norvegicus</u> , in the central North Sea
K:3		Withdrawn.
K:4	M. Moriyasu <u>et al.</u>	Preliminary study on catchability and size structure of snow crab (<u>Chionoecetes opilio</u>) in relation to trap type
K:5 Ref.D		Report of the Workshop on Multivariate Analysis of Shellfish Stocks, Lowestoft, 4-7 July 1989
K:6	C.J. Chapman <u>et al.</u>	Tagging experiments on <u>Nephrops</u> in a Scottish loch
K:7 Ref.L	T.R.W. Howell	The response of juvenile <u>Pecten maximus</u> (L.) to light and water currents
K:8	A.R. Beaumont	Identification of scallop stocks: the uses and values of allozyme data
K:9		Withdrawn.
K:10 Ref.D	C.C.E. Hopkins <u>et al.</u>	Body composition and energetic predictors of age/season in the prawn <u>Pandalus borealis</u>
K:11 Ref.L	M.M. Aschan	Further results on the effect of Iceland scallop (<u>Chlamys islandica</u>) dredging on the benthos in the waters around Jan Mayen and Spitsbergen
K:12		Report of the Working Group on Pectinid Stocks, Aberdeen, 22-25 November 1988
K:13 Ref.B	B.I. Berenboim	On regulation of shrimp <u>Pandalus borealis</u> fishery in the Barents Sea
K:14 Ref.G	B.I. Berenboim, S.G. Mukhin and G.K. Sheveleva	Soviet investigations of shrimp (<u>Pandalus borealis</u>) in the Barents Sea and off the Spitsbergen in 1988
K:15	A.M. Sennikov, S.G. Mukhin and T.E. Bliznichenko	Distribution and tropic importance of juvenile squid (<u>Gonatus fabricii</u> , Lichtenstein) in the Norwegian and Barents Seas in 1986-1988
K:16	B.I. Berenboim and G.K. Sheveleva	Data on the deep-water shrimp fecundity (<u>Pandalus borealis</u>) in the Barents Sea
K:17	B.P. Shimko	Biology and peculiarities of the squid <u>Todarodes sagittatus</u> (Lamarck) distribution at early life stages

- K:18 T. Brey Estimating productivity of macrobenthic invertebrates from biomass and mean individual weight
Ref.L
- K:19 A. Jarre, Reexamination of growth estimates in oceanic squids: the case of Kondakovia longimana (Onychoteuthidae)
Ref.D M.R. Clarke and D. Pauly
- K:20 A.C. Fariña The North Galician Nephrops fishery
- K:21 B. Besbes Effect of protein level and iron supplementation on the growth and survival of Penaeus japonicus larvae fed microbound diets
Ref.F and J. Guillaume
- K:22 D. Cam Contribution relative de la productivité naturelle et de l'aliment composé dans la nutrition de Penaeus japonicus élevé en conditions semi-intensives
Ref.F et al.
- K:23 Withdrawn.
- K:24 S. Munch-Petersen On the applicability of aerial survey techniques for recording and estimating densities of mussel beds
Ref.D and P. Sand Kristensen
Sess.U
Poster
- K:25 M.J. Figueiredo Preliminary results of the tagging experiments on Nephrops norvegicus in Portuguese waters
- K:26 A. Hylen, Results of stratified trawl surveys for shrimp (Pandalus borealis) in the Barents Sea and the Svalbard region in 1989
K. Sunnanå and P. Øynes
- K:27 S.A. Murawski Environmental effects of offshore dredge fisheries for bivalves
Ref. and F.M. Serchuk
B+L
- K:28 C.D. Darby Use of the North Sea water parcel following model (NORSWAP) to investigate the relationship of larval source to recruitment for scallop (Pecten maximus) stocks of England and Wales
Ref. and J.A. Durance
C+L
- K:29 S.R. Lovewell Escape gap experiments in a lobster and crab fishery off the east coast of England
and J.T. Addison
- K:30 R.C.A. Bannister A brief progress report on experiments to evaluate the potential of enhancing stocks of the lobster (Homarus gammarus L.) in the United Kingdom
et al.
- K:31 Publications of interest to the Shellfish Committee, 1988.
- K:32 O. Tully, Fitting normal curves to polymodal length frequencies to assess growth in Nephrops
Ref.D D.L. McMullan and J.P. Hillis
- K:33 Withdrawn.

- K:34 M. Héral,
Ref.L D. Razet
and
J. Prou
Acquiring of continuous data on the particular matter of the estuarine bay of Marennes-Oléron during the spring planktonic bloom: effect on the filtration rate and biodeposition of the oyster Crassostrea gigas
- K:35 C.H. Peterson
Ref.D and R. Black
Cooperative interactions among conspecifics can induce density-dependent recruitment
- K:36 R.P. Briggs
Temporal and spatial variation in Western Irish Sea Nephrops
- K:37 M. Armstrong
Sess.U D. Renard and
Poster P. Berthou
Applying geostatistics to the estimation of a population of bivalves
- K:38 Report of the Workshop on Spatial Statistical
Ref.D Techniques, Brest, 16 -19 May 1989

REFERENCE PAPERS FOR THE SHELLFISH COMMITTEE

B:17, B:32, B:49, C:2, D:1, D:3, D:22, D:29, E:11, F:7,

F:18, G:10, L:31, M:13

L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

No.	Author(s)	Title
L:1		Report of Activities, 1988
L:2	F. Redant	Productivity of epibenthic species: a review
L:3 Ref.H	J.H. Cowan Jr. and E.D. Houde	Growth, growth variability, and survival of bay anchovy (<i>Anchoa mitchilli</i>) larvae in mesocosm enclosures
L:4	A. Sieg, C. Clemmesen and B. Ueberschär	Comparison of biochemical and histological methods for the evaluation of the <u>in situ</u> nutritional condition of marine fish larvae
L:5	V.V. Blinov	On a possible approach to determining survival rate of pelagic fish larvae in patches
L:6		Withdrawn.
L:7		Withdrawn.
L:8	S. Alshuth	Distribution and abundance of dominant Arctic copepods in early winter
L:9		Withdrawn.
L:10 Sess.U Poster	A. Künitzer	The bottom fauna of the central North Sea
L:11		Withdrawn.
L:12 Paper and Poster	R. Fröse and C. Paparissi	The use of modern relational data bases for identification of fish larvae
L:13	T. Gytre and P. Solemdal	Effect of turbulence on the feeding rate of cod (<i>Gadus morhua</i> L.) and haddock (<i>Melanogrammus aeglefinus</i>) larvae; an experimental design
L:14 Sess.R	U. Kils, U. Walter and P. Fischer	The fish-kill of the autumn 1988 in Kiel Bay
L:15	U. Kils	On the microstructure of microlayers. Results of an <u>in situ</u> zooplankton-counter
L:16	H. Renk <u>et al.</u>	Investigations of the primary production in the Gdansk Deep (southern Baltic) in 1988
L:17 Ref.C	Z. Ringer	Phytoplankton of the southern Baltic in 1988
L:18 Sessions T and Q		Report of Workshop on <u>Chrysochromulina polyplepis</u> Bloom, Bergen, 28 February - 2 March 1989

- L:19 Report of the Benthos Ecology Working Group, Vigo,
Ref.E 18-21 April 1989
Sess.T
- L:20 Report of the Phytoplankton Ecology Working Group,
Ref. E Helsinki, 4-7 July 1989
Sess.T
- L:21 Report of the Study Group on Plankton Sampling
Ref.B Problems, Aberdeen, 10-11 July 1989
- L:22 Report of the Working Group on Larval Fish Ecology,
Aberdeen, 12-14 July 1989
- L:23 Plankton Identification Sheets - Editor's Report
Ref.Pub 1988/1989
- L:24 K. Richardson Phytoplankton distribution and activity in the
Sess.Q Skagerrak: a review
- L:25 Withdrawn.
- L:26 P. Servais, Modelling the dynamics of bacterioplankton in the
S. Becquevort and G. Billen North Sea
- L:27 C. Lancelot An ecophysiological model of phytoplankton growth
and in mixed or partly mixed water column
S. Mathat
- L:28 V. Rousseau Spring algal blooms in the continental coastal zone
Ref.E and of the North Sea
C. Lancelot
- L:29 A. Jaworski Size selective mortality in plaice and cod eggs: a
Ref.G and new approach to the study of egg mortality?
A.D. Rijnsdorp
- L:30 Publications of interest to the Biological Oceanography
Committee during 1988
- L:31 J. Martin Période d'éclosion et densité des larves de tour-
Ref.K steau (Cancer pagurus) en Baie d'Audierne (Bretagne
sud) en 1979 et 1980

REFERENCE PAPERS FOR THE BIOLOGICAL OCEANOGRAPHY COMMITTEE

- C:18, C:21, C:36, D:10, D:11, D:28, E:34, E:36, F:18, G:19, G:22, G:41, G:45, G:52,
G:55, H:8, H:18, H:23, H:25, H:30 (Poster), H:38 (Poster), H:41, H:45, J:19, J:20
K:7, K:18, K:27, K:28, K:34, M:14, M:15, M:23, N:8

M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE

No.	Author(s)	Title
M:1		Report of Activities, 1988
M:2		Report of the Study Group on the Norwegian Sea and Faroes Salmon Fishery, Helsinki, 7-9 February 1989
M:3		Report of the Study Group on North American Salmon Fishery, Leetown, W. Virginia, USA, 28 February - 3 March 1989
M:4 Ref.E Sess.T		Report of the Study Group on Toxicological Mechanisms Involved in the Impact of Acid Rain and its Effects on Salmon, Copenhagen, 11-15 March 1989
M:5		ICES compilation of microtag, finclip, and external tag releases in 1988
M:6	W.M. Shearer and D.A. Dunkley	Monitoring salmon stocks in the River North Esk, Scotland
M:7	W.M. Shearer	Report of the Second Atlantic Salmon Scale-Reading Workshop, Aberdeen, Scotland, 12-14 October 1988
M:8	C. Eriksson	Delayed release of salmon smolts (<u>Salmo salar</u> L.) of different ages at the coast of Gotland, Baltic Main Basin
M:9	D.G. Reddin and P.B. Short	Post-smolt Atlantic salmon in the Labrador Sea
M:10		Withdrawn.
M:11	I. Kolari and E. Ikonen	Growth of sea trout (<u>Salmo trutta</u>), age and size composition of catches and results of tagging experiments
M:12	I. Kallio-Nyberg and E. Ikonen	Migration pattern of two salmon stocks in the Baltic Sea
M:13 Ref. G+H+K	D. Guérault <u>et al.</u>	Evaluation des prises accessoires de la pêche de civelle (<u>Anguilla anguilla</u>) en Loire (France)
M:14 Ref.L	D.M. Monteleone and E.D. Houde	Vulnerability of early life stages of anadromous striped bass (<u>Morone saxatilis</u>) to predation by juvenile white perch (<u>Morone americana</u>)
M:15 Ref.L	E.D. Houde, R.M. Nyman and E.S. Rutherford	Cohort-specific growth and mortality rate variability of larvae of anadromous striped bass (<u>Morone saxatilis</u>) and white perch (<u>Morone americana</u>)
M:16 Ref.F	L. Nielsen	Variability in growth and sex of cultured eels

- M:17 S.J. de Groot Data on the Dutch fisheries on salmon (1863-1957) and trout (1886-1986) fisheries in the river Rhine
- M:18 S.J. de Groot Decline of the catches of coregonids and migratory smelt in the lower Rhine, The Netherlands
- M:19 S.J. de Groot The former Allis and Twaite shad fisheries of the lower Rhine, The Netherlands
- M:20 S.J. de Groot IJsselmeer eel fishery: catch and effort revealed by
Poster fishermen inquiries
- M:21 F.-W. Tesch, Tracking studies on migrating silver eel in the
H. Westerberg Central Baltic
and
L. Karlsson
- M:22 F.-W Tesch Insignificance of tidal currents for the silver eel migration as studied by eel trackings and current measurements
- M:23 F.-W. Tesch The distribution of small larvae of Anquilla sp.
Ref. and related to hydrographic conditions 1981 between
C+L G. Wegner Bermuda and Puerto Rico
Sess.U
- M:24 I.C. Russell Recoveries of coded wire microtags from salmon
et al. caught at West Greenland in 1988
- M:25 Report of the Working Group on the Assessment of the European Eel, Porto, Portugal, 3 June 1989
- M:26 List of publication related to the interest of the Anadromous and Catadromous Fish Committee, 1988
- M:27 I. Fjallstein Recapture of microtagged salmon of Norwegian farmed strain to Faroe Island from releases in 1984 and 1985

REFERENCE PAPERS FOR THE ANADROMOUS AND CATADROMOUS FISH COMMITTEE

B:52, D:18, F:5, F:15

N - MARINE MAMMALS COMMITTEE

No.	Author(s)	Title
N:1		Report of Activities, 1988, and Addendum 1
N:2	C.Chr. Kinze	Danish whale strandings and by-catches 1986-1988
N:3	R. Duguy <u>et al.</u>	Répartition et fréquence des Pinnipèdes sur les côtes atlantiques de France, d'Espagne, et du Portugal
N:4	R. Duguy	Rapport annuel sur les Cétacés et Pinnipèdes trouvés sur les côtes de France année 1988
N:5	G. García-Castrillo <u>et al.</u>	Les mammifères marins du nord de l'Espagne en 1988
N:6	Finn O. Kapel and L.A. Angantyr	Feeding patterns of harp seals (<i>Phoca groenlandica</i>) in coastal waters of West Greenland, with a note on offshore feeding
N:7	R. Lick	Stomach nematodes from harbour seals (<i>Phoca vitulina</i>) from the Danish and German Wadden Sea
N:8 Ref.L	C. Joiris	Seabirds in the North Sea: distribution and ecological role
N:9 Ref.E Sess.T		Report of the Joint Meeting of the Working Group on Baltic Seals and the Study Group on the Effects of Contaminants on Marine Mammals, Helsinki, 15-18 May 1989
N:10		List of publications of interest of to the Marine Mammals Committee, 1988
N:11	Chr. Lydersen <u>et al.</u>	Feeding habits of the Northeast Atlantic harp seals, <i>Phoca groenlandica</i> , along the summer ice edge of the Barents Sea
N:12 Ref.E	J.M. Marquenie and P.J.H. Reijnders	PCBs, an increasing concern for the marine environment
N:13	D.M.E. Osterhuis and P.J.H. Reijnders	Seal disease epidemic in northwestern Europe: present state of virological investigations and required research
N:14 Ref.E	C. Joiris	Mercury contamination of Belgian and Peruvian cetacea

MINI-SYMPOSIUM ON REPRODUCTIVE VARIABILITY; IMPLICATIONS FOR THE
DYNAMICS AND WELL-BEING OF STOCKS

No.	Author(s)	Title
No.1	R. Chr. Chambers and W.C. Leggett	Detecting, estimating, and evaluating maternal influences on the early life traits of marine fishes
No.2	E. Fahy	The value of alterations in fecundity to an exploited shark population, illustrated by <u>Squalus acanthias</u> (L.)
No.3	F. van Beek, N. Daan, H. Heessen and A.D. Rijnsdorp	Reproductive variability in North Sea cod, plaice, and sole
No.4	G.Y. Conan, M. Moriyasu and D. Maynard	Egg production in decapod crustacea, geographic and temporal variations with two case studies: <u>Chionoecetes opilio</u> and <u>Homarus americanus</u> in the Gulf of St. Lawrence (Canada)
No.5	L. Føyn and B. Serigstad	How can a potential oil pollution affect the recruitment to fish stocks?
No.6	V.P. Serebryakov	Variability of population fecundity and reproduction capacity of some food fishes subject to the year-class strength fluctuations
No.7		Withdrawn.
No.8	T.C. Lambert	The effect of population structure on recruitment in herring
No.9	J. Casey, H.W. Pratt, M.J. Fogarty and J.S. Iodine	Reproductive dynamics of elasmobranchs in response to harvesting

PAPERS AND POSTERS FOR THEME SESSIONS

Acoustic Methods (O) Convener: Dr J.J. Traynor

B:2, B:3, B:4, B:5, B:6, B:7, B:8, B:9, B:17, B:24, B:27, B:30, B:45, B:47,
B:53, B:56, H:53

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

B:11, B:12, B:15, B:16, B:18, B:22, B:32, B:46, B:48, B:49, B:52, B:54, B:55

Variability in the Skagerrak (O) Convener: Dr I. Olsson

C:5, C:12, C:35, L:18, L:24

Effects of Eutrophication and Hypoxia on Living Marine Resources (R)

Convener: Ms A Studholme

E:10, E:11, E:24, E:25, E:27, L:14

ACFM and Associated Assessment Working Group Reports (S)

Convener: Mr D. de G. Griffith

Assess:1 - Assess:22, and Assess:24, G:29, G:57, H:39, J:12

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

C:32, E:2, E:6, E:13, E:18, E:19, F:11, F:14, F:18, L:18, L:19, L:20, M:4, N:9,
and ACMP:2

*Putting ICES into Space: Incorporating Spatial Information in Stock Assessments (U) Convener: Dr C. Bannister; Co-convener: Dr G.Y. Conan

B:13, D:3, D:15, G:24, G:43, G:52, G:62 (P), H:4 (Poster plus Paper),
H:5 (Poster plus Paper), H:7 (Not P), H:8 (Not P), H:10, H:11, H:12,
H:30 (P), H:38 (P), H:50, J:20, K:24 (Paper and Poster), K:37 (P),
L:10(P), M:23

*Contributions for this session are requested in the form of
Posters.

ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT

- ACFM:1* Agenda, ACFM Consultations at the 1989 Statutory Meeting
- ACFM:2* Draft Agenda and Timetable, ACFM Meeting, 31 October to 8
November 1989
- ACFM:3* Draft Schedule and Terms of Reference for 1990 ACFM and Assess-
ment Working Groups

*For the relevant Committee only.

ASSESSMENT WORKING GROUP REPORTS - 1989

- C.M.1989/Assess:1 Report of the Working Group on Multispecies Assessment of Baltic Fish, Rostock, 5-9 September 1988
- C.M.1989/Assess:2 Report of the Irish Sea and Bristol Channel Working Group, Copenhagen, 8-16 September 1988
- C.M.1989/Assess:3 Report of the North-Western Working Group, Copenhagen, 16-23 September 1988
- C.M.1989/Assess:4 Report of the Arctic Fisheries Working Group, Copenhagen 20-29 September 1988
- C.M.1989/Assess:5 Report of the Blue Whiting Assessment Working Group, Copenhagen, 21-27 September 1988
- C.M.1989/Assess:6 ✓ Report of the North Sea Flatfish Working Group, Copenhagen, 20-26 October 1988
- C.M.1989/Assess:7 Report of the Atlanto-Scandian Herring and Capelin Working Group, Copenhagen, 24-28 October 1988
- C.M.1989/Assess:8 Report of the Working Group on Cod Stocks off East Greenland, Copenhagen, 22-28 February 1989
- C.M.1989/Assess:9 Report of the Working Group on the Assessment of Pandalus Stocks, Copenhagen, 13-17 February 1989
- C.M.1989/Assess:10 Report of the Division IIIa Demersal Stocks Working Group, Copenhagen, 27 February -3 March 1989
- C.M.1989/Assess:11 ✓ Report of the Mackerel Working Group, Copenhagen, 27 February - 7 March 1989
- C.M.1989/Assess:12 Report of the Working Group on North Atlantic Salmon, Copenhagen, 15-22 March 1989
- C.M.1989/Assess:13 Report of the Industrial Fisheries Working Group, Copenhagen, 29 March - 4 April 1989
- C.M.1989/Assess:14 Report of the Working Group on Assessment of Pelagic Stocks in the Baltic, Copenhagen 10-20 April 1989
- C.M.1989/Assess:15 ✓ Report of the Herring Assessment Working Group for the Area South of 62° N, Copenhagen, 4-14 April 1989
- C.M.1989/Assess:16 Report of the Baltic Salmon and Trout Assessment Working Group, Copenhagen, 25 April - 2 May 1989
- C.M.1989/Assess:17 Report of the Working Group on Assessment of Demersal Stocks in the Baltic, Copenhagen, 17-26 April 1989
- C.M.1989/Assess:18 Report of the Working Group on Nephrops Stocks, Lowestoft, 10-15 April 1989
- C.M.1989/Assess:19 Report of the Working Group on the Assessment of Pelagic Stocks in Divisions VIIIc and IXa and Horse Mackerel Copenhagen, 10-19 May 1989

- C.M.1989/Assess:20 ✓ Report of the Multispecies Assessment Working Group, Copenhagen, 7-16 June 1989
- C.M.1989/Assess:21 Report of the Working Group on the Assessment of the Stocks of Hake, Copenhagen, 8-15 June 1989
- C.M.1989/Assess:22 Report of the Working Group on Fisheries Units in Sub-areas VII and VIII, Nantes, 23-30 June 1989
- C.M.1989/Assess:23 Transferred to 1990.
- C.M.1989/Assess:24 ACFM comments on stock assessment working group reports: a supplement (for working groups) to the ACFM minutes of November 1988 and May 1989

ACMP - ADVISORY COMMITTEE ON MARINE POLLUTION

ACMP:1* Agenda for the Advisory Committee on Marine Pollution

ACMP:2* Extracts of the 1989 ACMP Report (Cooperative Research Report, No.
167)