

CONSEIL INTERNATIONAL
POUR L'EXPLORATION DE LA MER

CHARLOTTENLUND SLOT,
DK-2920 CHARLOTTENLUND, DANEMARK

Adresse Télégraphique:
MEREXPLORATION, COPENHAGUE
Telex: 22498 ices dk

Téléphone:
01-62 18 65 - 01-62 86 86 (Secrétaire Général)
01-62 18 64 (Service Hydrographique)

Vostra ref.:

Au sujet:

Notre réf.: D.l.a./78

Date:

November 1978

Fiskeridirektoratet
Biblioteket

Dear Sirs,

Please find enclosed a complete set - to the extent available - of
1978 Council Meeting papers.

If you require photocopies of papers which were not included in the set,
please do not hesitate to inform us and we shall then forward them with an
invoice to cover the cost of photocopying.

We wish, however, to draw your attention to the following papers which
were either withdrawn or never received for the meeting:-

F:19	J:25
G:43	J:26
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Yours faithfully,

ICES SECRETARIAT

Contributions to be presented at the Statutory Meeting.

*Fishery Directorate
Biblioteker*

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Documents are coded for different Committees in accordance with their terms of reference and instructions given by the governing bodies from time to time.

In some cases a paper is coded to one Committee and reference is made to one or more other Committees. The intention is to ensure that members of both (all) Committees receive copies in advance. The Chairmen concerned will agree as to presentation in the Committees. Presentation of the same material in more than one Committee should be avoided.

Gen: General Assembly Reports and Papers of General Interest

- Gen:1 "Reports by Observers from Collaborating Organisations".
- Gen:1.a "Brief Report on Symposia arranged or cosponsored by ICES in 1978".
- Gen:2 "Activities of the International Council for the Exploration of the Sea 1977/78".
- Gen:3 "Advance Release of Tables 1-5 and K of Bulletin Statistique, Vol. 62 (for 1977)".
- Gen:4 "Election of Committee Chairmen at the 66th Statutory Meeting". (E+F)
- Gen:5 "Notes on Recommendations and Reports". (E+F)
- Gen:6 R Jones
(Symposium) "Further observations on the energy flow to the major fish species in the North Sea".
- Gen:7 W H Sutcliffe Jr.
(Symposium) "Environmental trends and fish catches in the Gulf of St. Lawrence and the Gulf of Maine".
- Gen:8 K Sherman,
(Symposium) E Cohen,
M Sissenwine,
M Grosslein,
R Langton and
J Green "Food requirements of fish stocks of the Gulf of Maine, Georges Bank and adjacent waters".
- Gen:9 J A Pino "Mobilizing science and technology for strengthening fisheries' development programs".
- Gen:10 Compiled by
ICES Hydrographer "Catalogue of regularly issued marine environmental data products for the ICES area. 1978 issue".
- Gen:11 H Hummel and
(Symposium) J J Zijlstra "Some notes on the production of the North Sea".

Del - DELEGATES MEETINGS

- Del:1* "Audited accounts for 1976/77 with balance sheet per 31/10 1977".
- Del:2* "Preliminary report on the administration for the year 1 November 1977 - 31 October 1978".
- Del:3* "Administrative reports of area and subject Committees 1977".
- Del:4* "Estimated accounts for the financial year 1977/78".
- Del:5* "Budget for the financial year 1978/79". (E+F)
- Del:6* "Forecast Budget for the financial year 1979/80". (E+F)
- Del:7* "Proposal for amendment of the Rules of Procedure". (E+F)
- Del:8* "Procedures for publication of papers from Symposia and other meetings arranged by the Council".
- Del:9* "Composition of the Advisory Committee on Marine Pollution".
- Del:10* "Eventual Vice-Chairmanships of the Demersal and Pelagic Fish Committees, and related questions".
- Del:11* "Headquarters accommodation".
- Del:12* "Time schedule for meetings of Working Groups, Advisory Committees and the Statutory Meetings".
- Del:13* "Elections to be undertaken by the Council at the 66th Statutory Meeting". (E+F)
- Del:14* "Cooperation with IOC in preparations for open ocean monitoring".
- Del:15* "Financing of intercalibration exercises".

* For Delegates only.

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B - FISHING TECHNOLOGY COMMITTEE

- B:1 Administrative Report.
- B:2 J Olofsson "Swedish mesh selection experiments on
Ref. Baltic and G Otterlind Baltic cod in 1977 and 1978".
Fish Cttee
- B:3 "Report of the Working Group on Reaction
of Fish to Fishing Operations".
- B:4 "Report of the Working Group on Research
on Engineering Aspects of Fishing Gear,
Vessels and Equipment".
- B:5 E Dahm "Investigations on the strain of netting
yarn after repeated loading and after
application of stress in different
magnitude".
- B:6 G Freytag, "Investigations on Antarctic krill
Ref. Biol. H Mohr and with advanced echo-sounding and
Oceanogr.Cttee R Steinberg gear techniques".
- B:7 K Lange "Calculation of rope trawls".
- B:8 H von Seydlitz "Rope-trawl experiments with commercial
and W Kelle cutters on herring".
- B:9 V P Ponomarenko, "On selectivity of trawls with a mesh
Ref. Demersal K N Nikeshin and X size of 120 mm and 135 mm in cod ends
Fish Cttee V A Sakhno when fishing cod in the Barents Sea".
- B:10 A I Treshev "Selectiveness of trawls' cod ends for
Ref. Baltic Fish and S E Shevtsov X Baltic sprat harvesting".
Cttee
- B:11 G Kurc "Assistance technologique aux pays en
voie de développement".
- B:12 P Porche "Réalisation d'un filet à plancton de
grande ouverture, à ouverture et
fermeture commandées".
- B:13 P Porche "Adaptation du nouveau déclencheur
ISTPM au filet Bongo à ouverture et
fermeture commandées".
- B:14 P Porche "Réalisation d'un nouveau collecteur de
Ref. Biol. plancton à grande vitesse et à
Oceanogr.Cttee échantillonnage multiples dit
'collecteur à barillet'".
- B:15 P Porche "Réalisation d'une filière compacte pour
Ref. Hydrography prises de température et prélèvements
Cttee d'eau".
- B:16 P Porche "Réalisation économique d'un dispositif
de photographie sous-marine remorque".
- B:17 G Kurc "Rapport général sur les réunions
des groupes de travail du Comité de
la Technologie de Pêche à Bergen
(Norvège) du 8 au 12 mai 1978".
"General Report - Fishing Technology
Committee Working Groups, Bergen (Norway),
8th to 12 May 1978".

Fishing Technology Cttee (ctd)

B:18	J C Brabant et M Portier	"Le chalut pélagique à très grandes mailles".
B:19	J Prado	"Nouveau bassin d'essais d'engins de pêche à Lorient (France)".
B:20 Ref. Pelagic Fish Cttee	J Prado et P F Beirnaert	"Incidence du déroulement de la manoeuvre de la senne sur les performances du filet".
B:21	J Dardignac et Cl. de Verdelhan	"Relation entre l'écart de sélection et la taille de retenue à 50 p. 100 dans la sélectivité du merlu".
B:22	S Tilseth, P Solemdal and A Fernø	"Behaviour studies on fish reaction to long lines".
B:23	T Gytre	"A general system for logging information from instruments at sea".
B:24	J B Suomala Jr.	"Spherical reference targets for hydro-acoustical equipment calibration".
B:25	I Røttingen	"Field intercalibrations of echo-integrator systems".
B:26 Ref. Pelagic Fish Cttee	R J Miller and M McInerney	"Packing density and swimming speed of schooling capelin (<u>Mallotus villosus</u>)".
B:27		"Report of the Working Group on Data Collection and Processing in Fish Capture Research".

Reference Papers to the Fishing Technology Committee

H:55 Pelagic Fish Cttee	J I Edwards and R S Bailey	"An echo integration survey for sprats in United Kingdom coastal waters from the Humber to the Moray Firth, January 1978".
J:17 Baltic Fish Cttee	O Bagge	"Danish mesh selection experiments with cod in the Baltic".
K:5 Shellfish Cttee	A Charuau	"Nouvelles données sur la sélectivité des chaluts en polyamide dans la pêche de la langoustine".
K:7 Shellfish Cttee	C G Brown	"Trials with escape gaps in lobster and crab traps".
K:13 Shellfish Cttee	A Charuau	"Comparaison des prises de langoustines par les chaluts équipés de poches en mailles de 45 mm, 60 mm et 70 mm".

C - HYDROGRAPHY COMMITTEE

- C:1 S B Tijssen "Salinity intercalibration. JONSDAP 76".
- C:2
Ref. Biol. H W Hill and "Studies on a plaice egg patch in the
Oceanogr. D Harding Southern Bight of the North Sea in 1978".
Cttee
- C:3 J W Ramster "A note on the performance at sea of
and K J Medler Plessey MO21 and Aanderaa model 4
current meters during the Joint North
Sea Data Acquisition Project of 1976
(JONSDAP '76)".
- C:4 K Grasshoff "The towed chemical profiler, a versatile
Ref. Marine and H P Hansen system for continuous measurement of
Environmental environmental parameters in seawater".
Quality Cttee
- C:5 M Stein "Preliminary results of moored current
meters during the German Antarctic
Expedition 1977/78".
- C:6 G Weichart "Chemical changes and primary production
Ref. Biol. in the Fladen Ground area (North Sea)
Oceanogr. during the first phase of a spring
Cttee phytoplankton bloom".
- C:7 G A Becker "Is there a correlation between
nutrients and water masses in the
Iceland-Faroe Ridge area?".
- C:8 K P Koltermann "The tidal current constituents during
Overflow '73".
- C:9 J Meincke "On the atmospheric forcing of overflow-
and T Kvinge events".
- C:10 T Müller "TS-characteristics and water masses
during Overflow '73".
- C:11 T M Vanselous "Report of the meeting of the ICES
Ref. Biol. and A J Kemmerer Aerospace Remote Sensing Working Group,
Oceanogr. 17-19 May 1978, Maryland".
Cttee
- C:12 K A Sedykh "The coastal upwelling off the Northwest
Africa".
- C:13 A Furtak "Hydrological situation in the area of
Georges Bank and Nantucket shoals in autumn
of 1977".
- C:14 M Pastuszak "Surface and bottom distribution of
and J Wysocki temperature and salinity to the east of
Scotland in 1977".
- C:15 J W Ramster, "The measurement of tidal currents from
C G Griffiths anchored ships in the Straits of Dover
and D Prandle during the Joint North Sea Data
Acquisition Project of 1973 (JONSDAP 1973)".
- C:16 W Matthäus "Long-term temperature trends in the
Baltic deep water".
- C:17 R Sætre "The Atlantic inflow to the North Sea and
the Skagerrak indicated by surface
observations".

Hydrography Cttee (ctd)

- C:18 Ref. Marine Environmental Quality Cttee R L Swanson "NOAA's New York Bight marine ecosystems analysis project".
- C:19 D J Ellett and A Edwards "A volume transport estimate for Norwegian Sea overflow across the Wyville-Thomson Ridge".
- C:20 P L Richardson "Tracking Gulf Stream rings with free-drifting satellite buoys".
- C:21 C K Ross "Overflow variability in Denmark Strait".
- C:22 Compiled by ICES Hydrographer "National ship codes of the ICES punch card system, as per August 1978".
- C:23 E P Jones and A R Coote "Arctic Ocean surface layer circulation traced by silicate concentration in the Canadian archipelago".
- C:24 Ref. Biol. Oceanogr. Cttee G Kullenberg "Some experiences from participation in BOSEX 77 and FLEX 76".
- C:25 Ref. Biol. Oceanogr. Cttee "Report of the Study Group on the Programme for a 'Patch Study' in the North Sea".
- C:26 Jens Smed "Introduction to the Hydrography Section of 'Annales Biologiques', Vol.34 (for 1977)".
- C:27 A M Davies and G K Furnes "Comparison of observed and computed M_2 tidal currents in the North Sea".
- C:28 G C Baxter "Results of the JONSDAP 76 current meter compass intercalibration exercise".
- C:29 J W Ramster and S R Jones "Residual trends from Woodhead sea-bed drifters released off the northeast coast of England in 1976".
- C:30 W Fennel "Some remarks on the vertical momentum transport during BOSEX '77".
- C:31 A Vangriesheim "Hydrological data and near-bottom current measurements in Vema fracture zone".
- C:32 ICES Hydrographer "Activities of the ICES Service Hydrographique during 1977/78".
- C:33 U Rönner and K Gundersen "Nitrous oxide, its distribution and biological formation in the Baltic".
- C:34 ICES Hydrographer "ICES catalogue of computer programmes in physical and chemical oceanography. 1978 issue".
- C:35 B Hansen and J Meincke "Meanders in the Iceland-Faroe Ridge area".
- C:36 G A Becker "Statistical treatment of synoptical SST maps of the North Sea (1968-1978)".

Hydrography Cttee (ctd)

- C:37 D P Kohnke "The problems of data exchange as identified by JONSDAP '76".
- C:38 K P Koltermann "Links between physical and biological
Ref. Biol. and G Radach data in the FLEX box".
Oceanogr. Cttee
- C:39 K P Koltermann "Examples of flow pattern of the northern
North Sea during JONSDAP '76".
- C:40 S R Ramp "Measurements of the deep currents in the
and J A Vermersch Jr. northeast channel, Gulf of Maine".
- C:41 ICES Hydrographer "Provisional programme of work for ICES
Service Hydrographique, 1978/79".
- C:42 H W Riepma "Residual currents in the North Sea during
the In/Out phase of JONSDAP 76. (First
results extended)".
- C:43 L Otto "Age distribution in a periodically
stratified basin".
- C:44 A Svansson "The organisation of JONSDAP 76".
Ref. Biol.
Oceanogr. Cttee
- C:45 J Rodhe "A model for the mean circulation in the
Skagerrak and a comparison with
observed currents".
- C:46 J H Swift "The role of the Denmark Strait overflow
and K Aagaard in the circulation of the North Atlantic".
- C:47 K Aagaard "Low-frequency characteristics of the
and S-A Malmberg Denmark Strait overflow".
- C:48 S-A Malmberg "Hydrography of the Denmark Strait
overflow".
- C:49 U Petersohn "Temperature features in the thermocline-
Drifting buoy DOPY test results obtained
during BOSEX 1977".
- C:50 A M Davies "Note on the use of field data to test and
and N S Heaps verify North Sea models".
- C:51 S Sundby "In/Out flow of coastal water in Vest-
fjorden".
- C:52 S H Fonselius "On the hydrographic conditions around the
Ref. Biol. BOSEX area".
Oceanogr. Cttee
- C:53 H D Dooley "Observed and geostrophic currents south
and J Crease and east of Faroe during Overflow '73".
- C:54 Jens Smed "Report on the XIth Conference of Baltic
Oceanographers".
- C:55 R De Clerck, "Belgian contribution to the experiment of
Ref. Biol. J H Heco, plaice egg and larvae diffusion".
Oceanogr. Cttee J P Mommaerts,
H Picard and
Y van Keymeulen

Hydrography Cttee (ctd)

- C:56 Jens Smed "Report on the Joint IOC/WMO Meeting of Governmental Experts on IGOSS Data Processing and Services System (IDPSS)".
- C:57 ICES Hydrographer "Provisional inventory of data from shipping routes in the ICES area".
- C:58 "Report on meeting of the Working Group on Marine Data Management (Charlottenlund, 28-29 September 1978)".
- C:59 "Report on meeting of the Working Group on Shelf Seas Hydrography (Charlottenlund, 28-29 September 1978)".
- C:60 A Shor "Bottom currents on East Katla Ridge, NW Iceland Basin".
- C:61 U.S. NODC "Roscop summary of U.S. cruises in the ICES area 1977".
- C:62 J G Harvey and A Shor "Norwegian sea overflow water in the Charley Gibbs fracture zone".
- C:63* R E Moffatt, E G Trammel, Jr., C L Sazama and A L Roberson "World Data Center A (Oceanography). Oceanographic data exchange 1977".

Reference Papers to the Hydrography Committee

- B:15 P Porche "Réalisation d'une filière compacte pour prises de température et prélèvements d'eau".
Fishing Techn. Cttee
- E:5 "Report of the Sub-Group on Contaminant Levels in Sea Water (Charlottenlund, 10-12 May 1978)".
Marine Environ. Quality Cttee
- E:47 W Baeyens, G Decadt and I Elskens "Distribution and behaviour of mercury in the North Sea and Scheldt Estuary".
Marine Environ. Quality Cttee
- G:20 Ó K Pálsson and S-A Malmberg "Investigations on demersal juvenile cod (age groups 0-IV) in Icelandic waters in 1977".
Demersal Fish Cttee
- H:35 Jens Smed "Bottom temperature and salinity in the North Sea during the ICES Young Herring Survey in February 1978".
Pelagic Fish Cttee

* For the relevant Committee only.

Hydrography Cttee (ctd)

Reference Papers

H:37
Pelagic Fish
Cttee

"Report on joint Soviet-Icelandic investigations on hydrobiological conditions in Icelandic waters and the Norwegian Sea in May-July 1978".

H:66
Pelagic Fish
Cttee

"Report on the O-Group Fish Survey in Icelandic and East Greenland Waters, August 1978".

L:27
Biol. Oceanogr.
Cttee

E B Cohen
and W R Wright

"Changes in the plankton on Georges Bank in relation to the physical and chemical environment during 1975-76".

L:32
Biol. Oceanogr.
Cttee

P C Reid

"Changes in the salinity of the eastern North Sea 1948-1974".

D - STATISTICS COMMITTEE

D:1		Administrative Report.
D:2	H B Becker	"Stratification after selection of the sample".
Ref. Pelagic Fish Cttee		
D:3		X "Report of the Working Group on the Eventual Establishment of an ICES ADP System for Fishery Statistics, Charlottenlund, 17-20 April 1978".
D:4	W Panhorst	X "Requirements to STATLANT returns submitted to ICES on magnetic tape".
D:5	I F West	X "The use in New Zealand of multilevel clustered sampling designs for the sampling of fish at market for year class".
D:6	A M Shanks	✓ "The Scottish sea fisheries statistics system".
D:7	C Michie	X "Herring port sampling".
D:8	J A Pope	✓ "A review of sampling methods in fishery research".
D:9	A S Jermyn and W B Hall	✓ "Sampling procedures for estimating haddock and whiting discards in the North Sea by Scottish fishing vessels in 1976 and 1977".
D:10	ICES Statistician	X "Progress Report".
D:11		X "Report of the Statistics Committee Liaison Working Group (Charlottenlund, 27-28 June 1978)".
D:12	C Taille and R L Wigley	X "Transect sampling methods and their applications to the deep-sea red crab".
Ref. Shellfish Cttee		
D:13	M R Pennington and M D Grosslein	X "Accuracy of abundance indices based on stratified random trawl surveys".

Reference Papers to the Statistics Committee

G:39	S Iglesias, F J Pereiro, F Cardador, M H Dinis and M Lima Dias	"Effects of mesh size and effort changes on the iberio-atlantic hake (<u>Merluccius merluccius</u> L.) fishery (Div. VIIIc (W) + IXa)".
Demersal Fish Cttee		
H:63	H Lassen and J Løkkegaard	"Fisheries management. Objectives and management strategies. - A critical view".
Pelagic Fish Cttee		

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:1 Administrative Report.
- E:2 "Reports on Marine Aggregate Production, 1977" (with Appendix 1).
- E:3 "Recent publications of interest to the Marine Environmental Quality Committee" (with Annex I).
- E:4 "Report of the meeting of the ICES/SCOR Working Group on the Study of the Pollution of the Baltic, Rostock, German Democratic Republic, 27-28 April 1978".
- E:5 "Report of the Sub-Group on Contaminant Levels in Sea Water (Charlottenlund, 10-12 May 1978)".
- Ref. Hydrography
Cttee
- E:6 "Fourth Report of the Working Group on Marine Pollution Baseline and Monitoring Studies in the North Atlantic, Charlottenlund, 17-19 May 1978".
- E:7 M G Norton "Monitoring of waste disposal areas around England and Wales".
- E:8 V Dethlefsen "Occurrence and abundance of some skeletal deformities, diseases and parasites of major fish species in dumping areas off the German coast".
- E:9 H Möller "Geographical and seasonal variation in fish pests in the North Sea and the Baltic".
- E:10 R Schneider "Concentrations of PCB in cod tissues from the western Baltic: food chain accumulation or partitioning between surrounding water and body lipids?".
- E:11 H. v. Westernhagen, V Dethlefsen and H Rosenthal "Fate and effects of cadmium in a marine model ecosystem".
- E:12 Hans Tambs-Lyche "Sea bed charting".
- E:13 M Schulz-Baldes "Transport and deposition of lead within Mytilus edulis with respect to the use of mussels as monitoring organisms".
- E:14 J F Uthe and C L Chou "Studies on the bioavailability of cadmium in canned lobster paste (Homarus americanus)".
- E:15 C L Chou and J F Uthe "Heavy metal relationships in lobster (Homarus americanus) and rock crab (Cancer irroratus) digestive glands".
- E:16 D F Scott, G R Sirota, J F Uthe and C J Musial "Regression analysis of heavy metal and organochlorine residue concentrations in a statistically sampled population of Atlantic cod (Gadus morhua)".
- E:17 M Said Mounib and J S Eisan "Effects of polychlorinated biphenyl (Aroclor 1254) on some dehydrogenases and aminotransferases in the testes of Atlantic cod (Gadus morhua)".

Marine Environmental Quality Cttee (ctd)

- E:18 H C Freeman,
G Sangalang
and B Fleming "The effects of a polychlorinated biphenyl (PCB) diet on Atlantic cod (Gadus morhua)".
- E:19 R A Greig,
D R Wenzloff
and J B Pearce "Levels of heavy metals in selected fin-fish and shellfish from the New York Bight, 1978".
- E:20 R J Law "Preliminary results of recent oil spill investigations. I. The wreck of the 'Amoco Cadiz'".
- E:21 R J Law
and A L Hall "Preliminary results of recent oil spill investigations. II. The wreck of the 'Eleni V'".
- E:22 O Grahl-Nielsen,
R J Law
K Palmork,
J E Portmann
and S Wilhelmsen "Anglo-Norwegian oil programme - Inter-calibration of analytical methods".
- E:23 P H Odense
and C M Morrison "Preliminary study of the nature and incidence of some abnormalities among northwestern Atlantic fishes".
- E:24 L Karbe,
Ch. Schnier and
R Niedergesäss "Trace elements in mussels (Mytilus edulis) from German coastal waters. Evaluation of multielement pattern with respect to its use for monitoring programmes".
- E:25 P Eaton
and V Zitko "Polycyclic aromatic hydrocarbons in marine sediments and shellfish near creosoted wharf structures in Eastern Canada".
- E:26 D A Hancock "Environmental research in Western Australia".
- E:27 J M Bowers,
G Topping
and H L Windom "Status and plans regarding ICES inter-calibrations for trace metals in seawater".
- E:28 N J Jensen
and J L Larsen "The ulcus-syndrome in cod in Danish coastal waters 1977".
- E:29 J L Larsen
and N J Jensen "Bacterial species implicated in the ulcus-syndrome in cod".
- E:30 W C Graham "Processes affecting electroanalytical studies of copper in sea water".
- E:31 I M Davies,
W C Graham
and J M Pirie "A tentative determination of methyl-mercury in sea water".
- E:32 I M Davies "Determination of methylmercury in the muscle of marine fish by cold vapour atomic absorption spectrophotometry".
- E:33 I M Davies
and J M Pirie "Trace metals in mussels from the Scottish coast".
- E:34 G Topping
and W C Graham "Mercury levels in ling (Molva molva), dogfish (Squalus acanthias) and blue whiting (Micromesistius putassou) in relation to age, length, weight and sampling area".

Marine Environmental Quality Cttee (ctd)

- E:35 A P Ward and J M Davies "A comparison of the rates of transport of oil, from surface slicks and from oil dispersed into the water column to the bottom sediments".
- E:36 L C Massie "Measurements on the rate at which some oil compounds are degraded in the marine environment".
- E:37 P R Mackie, R Hardy, K J Whittle and A D McIntyre "Hydrocarbons in the North Sea in July 1977".
- E:38 K J Whittle, R Hardy and A D McIntyre "Scientific studies at a future offshore oil spill in the light of the EKOFISK experience".
- E:39 A A Cowan "Organochlorine compounds in mussels from Scottish coastal waters".
- E:40 L A Caines "Heavy metal residues in grey seals (Halichoerus grypus) from the Farne Islands".
Ref. Marine Mammals Cttee
- E:41 A V Holden "Organochlorine residues in blubber of grey seals (Halichoerus grypus) from the Farne Islands".
Ref. Marine Mammals Cttee
- E:42 K H Palmork, J E Solbakken and T Neppelberg "Accumulation and metabolism of phenanthrene by saithe (Pollachius virens)".
- E:43 B L Bayne "The potential of bivalve molluscs for monitoring the effects of pollution".
- E:44 R Burns "Effect of a deep ocean mining test".
- E:45 S Y Feng, J K Watson, R Grillo, R Arimoto and A J Libbey "Preliminary observations on the levels of trace metals and PCBs in shellfish maintained on and near a dredge material disposal area in Eastern Long Island Sound of the United States".
- E:46 R N Reid and F W Steimle "Offshore oil production and United States fisheries".
- E:47 W Baeyens, G Decadt and I Elskens "Distribution and behaviour of mercury in the North Sea and Scheldt Estuary".
Ref. Hydrography Cttee
- E:48 ICES Environment Officer "Overview of ICES documents on Baltic environmental assessment and guidelines for monitoring procedures".
- E:49 P Michel "'Amo Cadiz': état actuel de la contamination des huîtres".
- E:50 Cl Maurin "Observations sur l'effet de l'échouement de l'Amo Cadiz sur les ressources marines vivantes exploitables".

Marine Environmental Quality Cttee (ctd)

Reference papers

Reference Papers to the Marine Environmental Quality Committee

C:4 Hydrography Cttee	K Grasshoff and H P Hansen	"The towed chemical profiler, a versatile system for continuous measurement of environmental parameters in sea water".
C:18 Hydrography Cttee	R L Swanson	"NOAA's New York Bight marine ecosystems analysis project".
F:25 Mariculture Cttee		"Report of the 1978 meeting of the ICES Working Group on the Pathology of Marine Organisms, Nantes, 28 February - 3 March 1978" (also in French).
K:15 Shellfish Cttee	Paul H Odense and C Annand	"Isoenzyme systems of an inshore and an offshore lobster population".
L:36 Biological Oceanogr.Cttee	A Calabrese, F P Thurberg, E Gould and J T Gaikoski	"OCEAN PULSE: some physiological, biochemical and microbiological activities".
M:12 Anacat. Cttee	Paul H Odense, C Annand, and A M Sutterlin	"Isoenzyme systems of some salmonids and their crosses".
N:8 Marine Mammals Cttee	C Alzieu et R Duguy	"Teneurs en composés organochlorés chez les Cétacés et Pinnipèdes fréquentant les côtes françaises".

F - MARICULTURE COMMITTEE

- F:1 Administrative Report (with Annex 1).
- F:2 "List of publications in the field of the Mariculture Committee, 1977 (Federal Republic of Germany)".
- F:3 H Beck,
J Gropp,
H Koops and
K Tiews "Single cell proteins in trout diets".
- F:4 H Kuhlmann
and H Koops "The silvering of eels, cultured under warm water conditions".
Ref. Anacat.
Cttee
- F:5 H Schulze-
Wiehenbrauck "Influence of water exchange rate on growth and food conversion in Tilapia zillii in small aquaria".
- F:6 T Pommeranz "Closed circuit culture system for rearing of marine fish".
- F:7 G Otte
and H Rosenthal "Water quality during a one year operation of a closed intensive fish culture system".
- F:8 H Rosenthal
and G Otte "Reactions of a biological filter to salinity change".
- F:9 H Rosenthal,
G Krüner and
G Otte "Effects of ozone treatment on re-circulating water in a closed fish culture system".
- F:10 H Rosenthal,
H v. Westernhagen
and G Otte "Maintaining water quality in laboratory scale sea water recycling systems".
- F:11 K Tiews,
J Gropp,
H Beck and
K Koops "Compilation of fish meal free diets obtained in rainbow trout (Salmo gairdneri) feeding experiments at Hamburg (1970-1977/78)".
- F:12 R W Fairfull,
L E Haley and
J D Castell "Growth and genetics in the American lobster (Homarus americanus) at 3 temperatures, 2 diets and with and without bilateral eyestalk ablation".
Ref. Shellfish
Cttee
- F:13 Th. Neudecker "Preliminary results of investigations on the maturation and sex ratio of oysters (C. gigas) transplanted into the Flensburg Fjord, western Baltic".
- F:14 E Anders "Oral immunization of young rainbow trout and eels against Vibrio anguillarum".
Ref. Anacat.
Cttee
- F:15 J D Castell
and S P Lall "The relationship of nutritional studies to fisheries management".
- F:16 J E Stewart "The lobster disease, Gaffkemia, in relation to fisheries management".
Ref. Shellfish
Cttee
- F:17 L Leibovitz "A study of Vibriosis at a Long Island shellfish hatchery".
Ref. Shellfish
Cttee

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- F:18 D E Aiken "Importance of lobster culture research to fisheries management".
Ref. Shellfish Cttee
- F:19 WITHDRAWN.
- F:20 E B Henderson and R L Saunders "Comparative growth of rainbow trout reared in recycle and single pass systems".
- F:21 A M Sutterlin, K J Jokola and B Holte "Observations on the behaviour of salmonid fish in ocean pens".
Ref. Anacat. Cttee
- F:22 G Nøvdal, M Holm, R Lerøy and D Møller "Individual growth rate and age at sexual maturity in rainbow trout".
- F:23 G Nøvdal, Ø Bjerck, M Holm, R Lerøy and D Møller "Growth rate and age at sexual maturity of Atlantic salmon smoltifying at one and two years of age".
- F:24 D V Lightner "Gill disease: a disease of wild and cultured penaeid shrimp".
Ref. Shellfish Cttee
- F:25 "Rapport du Groupe de Travail sur la Pathologie des Organismes marins, Nantes, 28 février - 3 mars 1978".
Ref. Marine Environmental Quality Cttee
- F:26 E W Shell "Report of the 1978 meeting of the ICES Working Group on the Pathology of Marine Organisms, Nantes, 28 February - 3 March 1978".
- F:27 "Constraints to the development of mariculture".
- F:27 J R Mitchell "Proposal to address - Broad scientific and policy issues related to mariculture".

Reference Papers to the Mariculture Committee

- G:53 J Barret et M M Friha "Bilan d'une expérience d'élevage semi-intensif de soles (Solea solea) dans un étang côtier breton".
Demersal Fish Cttee
- G:54 M H Barahona-Fernandes "Croissance et survie des larves de bar (Dicentrarchus labrax (L.)) en fonction de la date de ponte et des lots de géniteurs, en conditions de laboratoire".
Demersal Fish Cttee
- G:55 J Person-Le Ruyet, J C Alexandre, A Le Roux et C Nédélec "La génération 1977 de turbot (Scophthalmus maximus L.) au Centre Océanologique de Bretagne (CNEXO - France)".
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Reference papers

- | | | |
|-------------------------------|---|---|
| H:12
Pelagic Fish
Cttee | V A Sedletskaia
and D G Burdin | "The early development stages of
<u>Trichiurus lepturus</u> L.(Trichiuridae)". |
| J:8
Baltic Fish
Cttee | M Vitinsh | "Preliminary results of field experiments
of marking Baltic flounder otoliths
by use of tetracycline injections". |
| K:11
Shellfish
Cttee | L E Haley,
A Mallet and
G F Newkirk | "Genetic analysis of strain crossing
and selection as means of increasing
growth rate in American oyster". |
| K:17
Shellfish
Cttee | E Egidius | "Lobster import: two outbreaks of
Gaffkemia in Norway". |
| M:7
Anacat.
Cttee | A Mitans
and J Rimsh | "Distribution in the sea and rate of
recaptures of Baltic salmon smolts from
Gulf of Riga rivers". |
| M:13
Anacat.
Cttee | P Prouzet | "Relationship between density and
growth of Atlantic salmon reared in
nursery streams in natural conditions". |
| M:15
Anacat.
Cttee | Y Harache,
G Boeuf and
J P Carval | "Results of sea water rearing of 0 age
coho salmon smolts after direct
transfer or progressive adaptation". |
| M:16
Anacat.
Cttee | G Boeuf,
P Lasserre
and Y Harache | "Influence of time and type of transfer
to sea water on gill (Na ⁺ +K ⁺)
adenosine triphosphatase in zero age
coho salmon (<u>Oncorhynchus kisutch</u>
Walbaum)". |
| M:20
Anacat.
Cttee | B Holmberg | "Production of salmon and sea trout
smolts in brackish cooling water from
a nuclear power plant". |
| M:24
Anacat.
Cttee | M Holm
and A Fernø | "Aggression and growth of different
populations of Atlantic salmon parr". |

G - DEMERSAL FISH COMMITTEE

- G:1 Administrative Report.
- G:2 "Report of the Working Group on Fish Stocks at the Faroes, Charlottenlund, 6-10 February 1978".
- G:2/APPENDIX "Review of some fish resources of the Faroe area".
- G:3 "Report of the Saithe (Coalfish) Working Group, Charlottenlund, 13-17 February 1978".
- G:4 "Report of the Working Group on Greenland Halibut in Region 1, Charlottenlund, 27 February - 3 March 1978".
- G:5 "Report of the North-East Arctic Fisheries Working Group, Charlottenlund, 6-10 March 1978".
- G:6 "Report of the Irish Sea and Bristol Channel Working Group, Lowestoft, 13-17 March 1978".
- G:6/Supplement 1 "Supplement to the Report of the Irish Sea and Bristol Channel Working Group".
- G:7 "Report of the North Sea Roundfish Working Group, Charlottenlund, 3-7 April 1978".
- G:8 "Bibliographie des publications produites en 1977 intéressant les membres du Comité des Poissons de Fond".
- G:9 "Report of the North Sea Flatfish Working Group, Charlottenlund, 10-18 April 1978".
- G:10 T Benjaminsen,
N Daan,
J R G Hislop,
M J Holden,
J Lahn-Johannessen
and W G Parnell "The results of the International O-Group Survey in the North Sea, 1978".
- G:11 "Report of the Working Group on Redfish in Region 1, Charlottenlund, 21-28 February 1978". (See also G:14.)
- G:12 "Report of the Working Group on Norway Pout and Sandeel, Charlottenlund, 30 January - 3 February 1978".
- G:13 S H Hoag ✓ "Trends in abundance and fishing mortality of Pacific halibut: cohort analysis, 1935-1976".
- G:14 "Report of the Working Group on Redfish in Region 1, Hamburg, 21 February - 25 February 1977". (See also G:11.)
- G:15 C J Rørvik "The Norwegian industrial trawl fishery in the North Sea. A study on how the total catch in 1975 could have been increased without exceeding the quotas of cod, haddock and whiting".

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G:16	J F de Veen	X	"Fishery dependant growth in the North Sea sole and its consequence for fishery management".
G:17	B W Jones	X	"The potential contribution of cod from Greenland to the fishery at Iceland".
G:18 Ref. Pelagic Fish and Baltic Fish Cttees	R G Houghton and S Flatman	Y	"A bias for calculating mean weight from a mean length and a discussion of the methodology used in Working Groups".
G:19	D Thompson, C E Purdom and G T Thacker		"A genetic analysis of plaice larvae (<u>Pleuronectes platessa</u> L.) from three spawning grounds in the North Sea".
G:20 Ref. Hydrography Cttee	Ó K Pálsson and S-A Malmberg	X	"Investigations on demersal juvenile cod (age groups 0-IV) in Icelandic waters in 1977".
G:21 Ref. Pelagic Fish Cttee	D Pauly	Y	"A discussion of the potential use in population dynamics of the inter-relationships between natural mortality, growth parameters and mean environmental temperature in 122 fish stocks".
G:22	M A Sonina	Y	"Distribution, feeding and abundance of the Arcto-Norwegian haddock in the Barents Sea in 1977".
G:23 Ref. Pelagic Fish Cttee	V P Ponomarenko, I Ya. Ponomarenko and N A Yaragina	Y	"Consumption of the Barents Sea capelin by cod and haddock in 1974-76".
G:24 Ref. Pelagic Fish Cttee	I Ya. Ponomarenko and N A Yaragina	X	"Year-to-year and seasonal fluctuations in the feeding of the Barents Sea cod on capelin in 1947-76".
G:25	Z P Baranova	X	"Migrations of young haddock and their abundance depending on water temperature in the southern Barents Sea".
G:26	M L Zaferman and M S Shevelev	Y	"Instrumental and trawl survey of the Barents Sea cod and haddock in February 1977".
G:27	P Beillois, Y Desaunay, D Dorel et M Lemoine	X	"Note sur quelques poissons rarement capturés sur le littoral du golfe de Gascogne".
G:28	Y Desaunay, D Dorel, M Lemoine et P Beillois	X	"Observations sur le merlu (<u>Merluccius merluccius</u>) de la zone côtière du golfe de Gascogne (1976, 1977, 1978)".
G:29	P Beillois, Y Desaunay, D Dorel et M Lemoine		"Observations sur le sole (<u>Solea vulgaris</u>) de la zone côtière du golfe de Gascogne (1976, 1977, 1978)".
G:30	P Beillois, Y Desaunay, D Dorel et M Lemoine	Y	"Observations sur le merlan (<u>Merlangus merlangus</u>) de la zone côtière du golfe de Gascogne (1976, 1977, 1978)".
G:31	M W Eusey	Y	"Otolith typing as an aid in the assessment of the contribution of Greenland cod to the fishery at Iceland".

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G:32	T Jakobsen	X	"Saithe tagging experiments on the Norwegian west coast south of 62°N, 1972-74".
G:33	T Jakobsen	X	"Saithe tagging experiments on the Norwegian coast between 62°N and 67°N, 1971-74".
G:34	T Jakobsen	X	"Saithe tagging experiments in northern Norway north of 68°N, 1970-74".
G:35	J A Rucabado, D Lloris and J Carrillo	X	"Light condition related to the presence of <u>Gnatophis mystax</u> (Anguilliformes, Congridae)".
G:36	J V Magnússon	X	"On the distribution and spawning grounds of the roughhead grenadier (<u>Macrourus berglax</u> Lacépede) west of Iceland".
G:37	J Magnússon and J V Magnússon	X	"On the proportion of the two species of redfish, <u>Sebastes marinus</u> and <u>Sebastes mentella</u> , in research catches from Icelandic and East-Greenland waters".
G:38	J F de Veen and P I van Leeuwen	X	"On the reliability of the 'Tridens' I- and II-group surveys 1969-1977 for predicting North Sea sole recruitment".
G:39 Ref. Statistics Cttee	S Iglesias, F J Pereiro, F Cardador, M H Dinis and M Lima Dias	X	"Effects of mesh size and effort changes on the iberco-atlantic hake (<u>Merluccius merluccius</u> L.) fishery (Div. VIIIc (W) + IXa)".
G:40	J D M Gordon	X	"Some notes on the biology of the roundnose grenadier <u>Coryphaenoides rupestris</u> to the west of Scotland".
G:41	Ph. Decamps et J Labastie	X	"Note sur la lecture et l'interprétation des otolithes de merlu".
G:42	J Dardignac		"Rapport sur les données disponibles concernant les dorades (sea bream), les cardines (megrin), les baudroies (monkfish) et la sole pour les sous-régions VIII et IX".
G:43			Withdrawn.
G:44	G Haunschild	X	"Method of age determination of redfish used in G.D.R. and results".
G:45		X	"Rapport du Groupe de Travail sur le Merlu, La Rochelle, 28-31 mars 1978".
G:45/APPENDIX		X	"Revue des connaissances sur le 'merlu'".
G:46	A Fernández		"Trials on the natural mortality of hake (<u>Merluccius merluccius</u> L.)".
G:47 Ref. Pelagic Fish Cttee	E Ursin	X	"Continued exercises with a North Sea model for multispecies fish stock assessments".

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G:48	P van Banning, J F de Veen and P I van Leeuwen	X	"The Myxosporidian parasite <u>Myxobolus aeglefini</u> Auerbach, 1906, and its use as parasitological tag for plaice of the eastern North Sea".
G:49	V M Nikolaev	X	"Cod stocks in 1977 - Introduction to 'Annales Biologiques', Vol. 34 (for 1977)".
G:50	J R G Hislop	X	"A midwater trawling survey of 0-group gadoids in the northern North Sea in October 1977".
G:51		X	"Compilation of the gadoid data collected during the International Young Herring Survey 1978".
G:52	R Jones	X	"Grouping of data for assessment purposes in the North Sea".
G:53 Ref. Mariculture Cttee	J Barret et M M Friha	X	"Bilan d'une expérience d'élevage semi-intensif de soles (<u>Solea solea</u>) dans un étang côtier breton".
G:54 Ref. Mariculture Cttee	M H Barahona- Fernandes	X	"Croissance et survie des larves de bar (<u>Dicentrarchus labrax</u> (L.)) en fonction de la date de ponte et des lots de géniteurs, en conditions de laboratoire".
G:55 Ref. Mariculture Cttee	J Person-Le Ruyet, J C Alexandre, A Le Roux et C Nédélec	X	"La génération 1977 de turbot (<u>Scophthalmus maximus</u> L.) au Centre Océanologique de Bretagne (CNEXO - France)".
G:56	R De Clerck	X	"The use of catch rate for the estimation of year class strength of flatfishes".
G:57			Withdrawn.
G:58 Ref. Pelagic Fish Cttee		X	"Report of the International 0-Group Survey in Faroe Waters, 1978".
G:59 Ref. Pelagic Fish Cttee	K Hoydal and J Reinert	X	"Correcting the Faroe 0-Group Survey data for different timing of the survey".
G:60			Withdrawn.
G:61	S H Clark, L Cleary and T S Burns	X	"A review of the Northwest Atlantic pollock resource".
G:62	T L Meyer, R A Cooper and R W Langton	X	"Observations on the relative abundance, behaviour, and food habits of the American sand lance, <u>Ammodytes americanus</u> DeKay (1842) from the Gulf of Maine".
G:63 Ref. Pelagic and Baltic Fish Cttees	Chairman of ACFM	X	"Some comments on the Advisory Committee on Fishery Management's report in 1978 and on the problems which must be faced in doing assessments".

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Reference papers

Reference Papers to the Demersal Fish Committee

- | | | |
|---------------------------------|--|---|
| B:9
Fishing Techn.
Cttee | V P Ponomarenko,
K N Nikeshin and
V A Sakhno | "On selectivity of trawls with a mesh size of 120 mm and 135 mm in cod ends when fishing cod in the Barents Sea". |
| H:37
Pelagic Fish
Cttee | | "Report on Joint Soviet-Icelandic investigations on hydrobiological conditions in Icelandic waters and the Norwegian Sea in May-July 1978". |
| H:56
Pelagic Fish
Cttee | | "Report of the Danish-Swedish Study Group on Fish Stocks in the Kattegat and Adjacent Waters". |
| H:63
Pelagic Fish
Cttee | H Lassen and
J Løkkegaard | "Fisheries management. Objectives and management strategies. A critical view". |
| H:66
Pelagic Fish
Cttee | | "Report on the O-Group Fish Survey in Icelandic and East Greenland waters, August 1978". |
| J:7
Baltic Fish
Cttee | H Rumohr | "Automatic camera observations on common demersal fish in the western Baltic". |
| K:25
Shellfish
Cttee | F G Howard | "The discarded fish by-catch in the Fladen shrimp fishery". |
| L:30
Biol.Oceanogr.
Cttee | W G Smith,
L Sullivan and
P Berrien | "Fluctuations in production of sand lance larvae in coastal waters off the north-eastern United States, 1974 to 1977". |
| L:39
Biol.Oceanogr.
Cttee | G Joakimsson | "On the occurrence and distribution of fish larvae on Georges Bank and Nantucket shoals in November 1972 - 1977 (1976 excluded)". |

H - PELAGIC FISH COMMITTEE

- H:1 Administrative Report.
- H:2 X "Report of the Blue Whiting Planning Group, Charlottenlund, 23-24 November 1977".
- H:3 "Report of the Herring Assessment Working Group for the Area South of 62°N, Charlottenlund, 9-18 March 1978".
- H:3/APPENDIX Z "Review of herring, sprat and blue whiting within the NEAFC Convention area".
- H:4 "Report of the Mackerel Working Group, Charlottenlund, 20-24 February 1978".
- H:5 "Rapport du Groupe de Travail pour l'Evaluation des Stocks de Reproducteurs de Sardines et autres Clupéides au sud des Iles Britanniques, Lisbonne, 16-18 mai 1978".
- H:6 A Corten X "Report on the ICES Young Herring Survey in the North Sea in 1978".
- H:7 A Corten X "The use of larval abundance data for estimating the stock size of North Sea herring".
- H:8 A Corten and G van de Kamp "Different growth patterns in mackerel west of the British Isles".
- H:9 S J Lockwood "The fecundity of mackerel, Scomber scombrus L.".
- H:10 R J Wood "Report of the International Surveys of Herring Larvae in the North Sea and Adjacent Waters in 1977/78".
- H:11 S J Lockwood, W A Dawson and R T Harrop "The western mackerel spawning stock size estimate for 1977".
- H:12 V A Sedletsckaya and D G Burdin "The early development stages of Trichiurus lepturus L. (Trichiuridae)".
Ref. Mariculture Cttee
- H:13 B Bussmann and S Ehrich "Larval nematodes Anisakis sp. in Blue Whiting from waters around the Faroe Islands".
- H:14 H Grave "Feeding of mackerel larvae and early juveniles in the central North Sea".
Ref. Biol. Oceanogr. Cttee
- H:15 D Sahrhage X "Fisheries for Blue Whiting (Micromesistius poutassou) by the Federal Republic of Germany and related scientific research".
- H:16 R Schöne X "Investigations of the Federal Republic of Germany on blue whiting (Micromesistius poutassou) in the Shetland-Faroe Islands area, January 1978".

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- H:17 D Pauly "A critique of some literature data on the growth, reproduction and mortality of the lamnid shark, Cetorhinus maximus (Gunnerus)".
- H:18 Withdrawn.
- H:19 L I Koval and V N Feldman "Genetic-biochemical and morphometrical characteristics of the North Sea sprat, Sprattus sprattus L."
- H:20 A V Gaevskaya "The parasitofauna of Blue Whiting (Micromesistius poutassou) in the northeast Atlantic".
- H:21 N A Nazarov, A S Malkov and V N Feldman "The state of the northeast Atlantic horse-mackerel stocks".
- H:22 N A Nazarov "Age and growth rate of the northeast Atlantic horse-mackerel".
- H:23 D Guerault et J L Avrilla "La sardine de la côte des Landes. Pêche et biologie".
- H:24 D Guerault et J L Avrilla "L'anchois du Golfe de Gascogne. Mise en évidence de l'existence de deux populations et bilan de nos connaissances sur la biologie de l'espèce".
- H:25 N Diner, J L Avrilla, D Guerault et P Porche "La prospection acoustique des espèces pélagiques côtières du golfe de Gascogne en 1975 et 1976".
- H:26 H Aloncle et F Delaporte "Influence positive de la présence de gradients thermiques dans la pêche du germon - Thunnus alalunga".
- H:27 S Arbault et N Lacroix "Oeufs et larves de clupéidés et engraulidé dans le golfe de Gascogne (1969-1973)".
- Ref. Biol. Oceanogr. Cttee
- H:28 M Giedz X "Polish investigations on blue whiting taken in the region of the Celtic Shelf and Faroe Islands in the I half of 1978".
- H:29 J Horbowy X "Estimation of instantaneous natural mortality coefficient as function of age for mackerel".
- H:30 M Trouvery "Croissance du chinchard Trachurus trachurus (L.) dans le golfe de Gascogne. Deuxième note".
- H:31 P O Johnson "Report on the sprat sampling from ICES Young Herring Surveys undertaken in February 1976, 1977 and February-March 1978".
- H:32 M G Pawson, J Dann, M R Vince and D A Annor X "The length and age structure of the blue whiting (Micromesistius poutassou) population along the edge of the continental shelf between 44°N and 61°N".

Pelagic Fish Cttee (ctd)

- H:33 "Preliminary report of the International O-Group Fish Survey in the Barents Sea and Adjacent Waters in August-September 1978".
- H:34 H Aloncle, E Bakken, J Rodriguez-Roda and K Tiews "Report of the Bluefin Tuna Working Group. - Observations on the size composition of bluefin tuna catches from 1977".
- H:35 Jens Smed "Bottom temperature and salinity in the North Sea during the ICES Young Herring Survey in February 1978".
Ref. Hydrography Cttee
- H:36 J Magnússon "Blue whiting in the Irminger Sea. Records from the years 1955-1964".
- H:37 "Report on joint Soviet-Icelandic investigations on hydrobiological conditions in Icelandic waters and the Norwegian Sea in May-July 1978".
Ref. Hydrography, Demersal Fish and Biol.Oceanogr. Cttees
- H:38 C E Stillwell and N E Kohler "Food habits of the shortfin mako (Isurus oxyrinchus) in the northwest Atlantic".
Ref. Biol.Oceanogr. Cttee
- H:39 J R Green "Theoretical food rations of Gulf of Maine and Georges Bank herring stocks".
Ref. Biol.Oceanogr. Cttee
- H:40 R Robles and C Porteiro "Statistical and biological data about the Spanish trawl fishery on blue whiting (Micromesistius poutassou Risso) in the NW of the Spanish coast".
- H:41 H Schultz, D Kästner, P Ernst and E Bech "G.D.R. summer-autumn surveys on blue whiting".
- H:42 F Alvares and F J Sanchez "First data of sardine purse seine fishery (Sardina pilchardus Walb.) in the NW of the Spanish coast".
- H:43 "Bibliography of papers published by members of the Pelagic Fish Committee in 1977 or relevant to the interest of that Committee".
- H:44 S H Coombs, R K Pipe and C E Mitchell "The eggs and larvae of mackerel (Scomber scombrus) to the west of the British Isles".
- H:45 S H Coombs and R K Pipe "The distribution, abundance and seasonal occurrence of the eggs and larvae of blue whiting, Micromesistius poutassou (Risso), in the eastern North Atlantic".
- H:46 K P Andersen and S H í Jákupsstovu "Sexual dimorphism and morphological differences in blue whiting (Micromesistius poutassou)".
- H:47 Withdrawn.

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H:48	S H í Jákupsstovu	X	"Blue whiting (<u>Micromesistius poutassou</u> , Risso 1810) investigations in Faroese waters in May-June 1978".
H:49	V M Nikolaev		"Herring stocks in 1977 - Introduction to 'Annales Biologiques', Vol.34 (for 1977)".
H:50	D W McKay		"The distribution and abundance of herring larvae to the west of Scotland in 1977".
H:51	M Walsh, S T Forbes and J R Hutcheon	X	"Results of Scottish blue whiting surveys west of Scotland and at Faroes in 1978".
H:52	R S Bailey	X	"Changes in the age composition of blue whiting in the spawning area west of Scotland, 1967-1978".
H:53	J W Smith and R Wootten		"Further studies on the occurrence of larval <u>Anisakis</u> in blue whiting".
H:54	K MacKenzie		" <u>Eimeria</u> infection of blue whiting, <u>Micromesistius poutassou</u> (Risso)".
H:55 Ref. Fishing Techn. Cttee	J I Edwards and R S Bailey		"An echo integration survey of sprats in United Kingdom coastal waters from the Humber to the Moray Firth, January 1978".
H:56 Ref. Demersal Fish Cttee		X	"Report of the Danish-Swedish Study Group on Fish Stocks in the Kattegat and Adjacent Waters".
H:57			Withdrawn.
H:58	M A R Fernández, A Delgado and J Bravo de-Laguna		"Abundance estimation of the sardine (<u>Sardina pilchardus</u> Walb.) population exploited by the Spanish fleet off NW Africa".
H:59	M A R Fernández, A Delgado and J Bravo de-Laguna		"Length, age and number of branchiospines relationships of the sardine (<u>Sardina pilchardus</u> Walb.) off NW Africa (24°N - 29°N)".
H:60	M Lourdes Marecos, Costa Monteiro and M Sobral		"Preliminary study on age and growth of <u>Trachurus trachurus</u> L. in Sub-area IX".
H:61	M F Borges		"Stock assessment of horse-mackerel (<u>Trachurus trachurus</u> L.) in Portuguese waters (ICES Sub-area IX)".
H:62	B Fontaine, N Diner, P Geistdoerfer et A Maucorps		"Résultats préliminaires de la campagne d'étude du merlan bleu (nord-est de l'Atlantique: 1978)".
H:63 Ref. Statistics and Demersal Fish Cttees	H Lassen and J Lakkegaard	X	"Fisheries management. Objectives and management strategies. A critical view".
H:64	W Morse		"Fecundity and spawning of Atlantic mackerel (<u>Scomber scombrus</u> L.) in the northwest Atlantic".

Pelagic Fish Cttee (ctd)

- H:65 J Jakobsson "A summary report on the ICES
X Coordinated Blue Whiting Surveys
during the first half of 1978".
- H:66 Ref. Hydrography and Demersal Fish Cttees "Report on the O-Group Fish Survey in Icelandic and East Greenland Waters, August 1978".

Reference papers to the Pelagic Fish Committee

- B:20 Fishing Technology Cttee J Prado et P F Beirnaert "Incidence du déroulement de la manoeuvre de la senne sur les performances du filet".
- B:26 Fishing Technology Cttee R J Miller and M McInerney "Packing density and swimming speed of schooling capelin (Mallotus villosus)".
- D:2 Statistics Cttee H B Becker X "Stratification after selection of the sample".
- G:18 Demersal Fish Cttee R G Houghton and S Flatman "A bias in calculating mean weight from a mean length and a discussion of the methodology used in Working Groups".
- G:21 Demersal Fish Cttee D Pauly "A discussion of the potential use in population dynamics of the inter-relationships between natural mortality, growth parameters and mean environmental temperature in 122 fish stocks".
- G:23 Demersal Fish Cttee V P Ponomarenko, I Ya. Ponomarenko and N A Yaragina "Consumption of the Barents Sea capelin by cod and haddock in 1974-76".
- G:24 Demersal Fish Cttee I Ya. Ponomarenko and N A Yaragina "Year-to-year and seasonal fluctuations in the feeding of the Barents Sea cod on capelin in 1947-76".
- G:47 Demersal Fish Cttee E Ursin "Continued exercises with a North Sea model for multispecies fish stock assessments".
- G:58 Demersal Fish Cttee "Report of the International O-Group Survey in Faroe Waters 1978".
- G:59 Demersal Fish Cttee K Hoydal and J Reinert "Correcting the Faroe O-Group Survey data for different timing of the Survey".
- G:63 Demersal Fish Cttee Chairman of ACFM "Some comments on the Advisory Committee on Fishery Management's report in 1978 and on the problems which must be faced in doing assessments".

Pelagic Fish Cttee (ctd)

Reference papers

- | | | |
|---------------------------------------|----------------|---|
| L:14
Biological Oceanogr.
Cttee | K Siudziński | "Quantitative distribution of herring larvae (<u>Clupea harengus</u> L.) in the North Sea". |
| L:15
Biological Oceanogr.
Cttee | S Grimm | "Distribution, abundance and mortality of herring larvae on Nantucket shoals and Georges Bank in spring 1976 - Region 5Z". |
| L:29
Biological Oceanogr.
Cttee | R J R Grainger | "Observations on the vertical distribution of early herring larvae in the Galway Bay, Ireland". |
| L:39
Biological Oceanogr.
Cttee | G Joakimsson | "On the occurrence and distribution of fish larvae on Georges Bank and Nantucket shoals in November 1972 - 1977 (1976 excluded)". |

J - BALTIC FISH COMMITTEE

- J:1 Administrative Report.
- J:2 "List of publications of interest to the Baltic Fish Committee, 1977".
- J:3 "Report of the Working Group on Assessment of Demersal Stocks in the Baltic, Lysekil, 3-12 May 1978".
- J:3/APPENDIX Appendix Report to C.M.1978/J:3.
- J:4 "Report of the Working Group on Assessment of Pelagic Stocks in the Baltic, Lysekil, 3-12 May 1978".
- J:4/APPENDIX Appendix Report to C.M.1978/J:4.
- J:5
Ref. Biol. Oceanogr.
Cttee "Report of the Working Group on Surveys of Fish Eggs and Larvae in the Baltic, Sweden, 8 May 1978".
- J:6 V Sjöblom
and R Parmanne "Abundance of Baltic herring larvae in the seas around Finland in 1977".
- J:7 H Rumohr
Ref. Demersal
Fish Cttee "Automatic camera observations on common demersal fish in the western Baltic".
- J:8 M Vitinsh
Ref. Mariculture
Cttee "Preliminary results of field experiments of marking Baltic flounder otoliths by use of tetracycline injections".
- J:9 F G Shevtsov,
A G Polivaiko
and G B Grauman "Estimation of the Baltic sprat absolute resources".
- J:10 I Lablaika
and D Uzars "Cod fry surveys in the eastern Baltic and its application in prognosis".
- J:11 B Draganik "The state of the flounder stocks in the southern Baltic".
- J:12 W Grygiel "Growth pattern of the sprat caught in the southern Baltic in 1974-77".
- J:13 M Kosior "Natural mortality coefficient of the southern Baltic cod".
- J:14 K Wlodarczyk "Survival and mortality rate estimations of sprat caught in the Gdańsk region (ICES Sub-division 26)".
- J:15 W Lebedek "Occurrence and distribution of sprat and cod eggs and larvae in the southern Baltic in 1977".
- J:16 O Bagge,
Ref. Biol. Oceanogr.
Cttee A Müller
and U J Hansen "Mortality of cod eggs in the Bornholm Basin 1978".
- J:17 O Bagge
Ref. Fishing
Techn. Cttee "Danish mesh selection experiments with cod in the Baltic".
- J:18 V Sjöblom
and R Parmanne "Abundance of sprat eggs and larvae in the northern Baltic in 1977".

Baltic Fish Cttee (ctd)

- J:19 V Sjöblom "Further findings of Phocascaris sp.
Ref. Biol. and E Kuittinen (Nematoda) in Baltic herring off the
Oceanogr.Cttee coast of Finland".
- J:20 F Halling "Autumn-spawning herring larvae and the
Ref. Biol. abundance of copepods off the Åland
Oceanogr.Cttee Islands in September-November 1977".
- J:21 M Berner "Length/weight relationships of cod in
the western, southern and southeastern
Baltic".
- J:22 C C Friess "Results of G.D.R. young fish survey of
and H Borrmann flounder and their relation to recruit-
ment of the feeding stock in ICES
Sub-division 24".
- J:23 N Schulz "Juvenile cod and herring investigations
by G.D.R. in the Mecklenburg Bay, in
the Arkona Basin and in the southern
Bornholm Basin in 1977".
- J:24 K Krenkel "Amount and distribution of eggs and larvae
and R Hinrichs of sprat (Sprattus sprattus L.) and cod
(Gadus morhua L.) in the Baltic in June 1977"
- J:25 N Jönsson "The results of tagging experiments in
and E Biester 1977/78 on the Rügen spring spawning
herring".
- J:26 E Biester and "Results of herring larvae research in the
Ref. Biol. N Brielmann Greifswalder Bodden".
Oceanogr.Cttee
- J:27 M Kosior, "Correlation between abundance estimation
M Kuptel of juvenile cod and exploited stock
and J Netzel in the Baltic (Sub-divisions 25-32)".

Reference Papers to the Baltic Fish Committee

- B:2 J Ólofsson "Swedish mesh selection experiments on
Fishing Techn. and G Otterlind Baltic cod in 1977 and 1978".
Cttee
- B:10 A I Treschev "Selectiveness of trawls' cod-ends for
Fishing Techn. and S E Shevtsov Baltic sprat harvesting".
Cttee
- G:18 R G Houghton "A bias in calculating mean weight from a
Demersal Fish and S Flatman mean length and a discussion of the
Cttee methodology used in Working Groups".
- G:63 Chairman of "Some comments on the Advisory Committee
Demersal Fish ACFM on Fishery Management's report in 1978
Cttee and on the problems which must be faced
in doing assessments".

K - SHELLFISH COMMITTEE

- K:1 Administrative Report.
- K:2 "Bibliography of publications relative to the interests of the ICES Shellfish Committee 1977".
- K:2/Supplement "Bibliography of publications from West Australia relative to the interests of the Shellfish Committee".
- K:3 J H Nichols and M Cryer "Hatching areas and drift of the planktonic stages of the edible crab Cancer pagurus L. off the northeast coast of England in 1976".
Ref. Biol. Oceanogr.Cttee
- K:4 R van Thielen "Annual cycle of growth and proximate composition of blue mussel (Mytilus edulis)".
- K:5 A Charuau "Nouvelles données sur la sélectivité des chaluts en polyamide dans la pêche de la langoustine".
Ref. Fishing Techn.Cttee
- K:6 D B Bennett, C G Brown, A E Howard, and S R J Lovewell "Comparison of lobster (Homarus gammarus) growth rates in Norfolk and Yorkshire, England".
- K:7 C G Brown "Trials with escape gaps in lobster and crab traps".
Ref. Fishing Techn.Cttee
- K:8 P M Connor "Seasonal variation in meat yield of scallops (Pecten maximus) from the south coast (Newhaven) of England".
- K:9 J P Hillis "Distribution of juvenile Nephrops norvegicus on the western Irish Sea fishing grounds".
- K:10 F Sardá and I Caballin "Relative growth in Norway lobster (Nephrops norvegicus) from the Catalan area".
- K:11 L E Haley, A Mallet and G F Newkirk "Genetic analysis of strain crossing and selection as means of increasing growth rate in the American oyster".
Ref. Mariculture Cttee
- K:12 R Boddeke and B Vingerhoed "Differences between the growth patterns of Crangon crangon and Nephrops norvegicus".
- K:13 A Charuau "Comparaison des prises de langoustines par les chaluts équipés de poches en mailles de 45 mm, 60 mm et 70 mm".
Ref. Fishing Techn. Cttee
- K:14 E His, G Tige et M A Rabouin "Mytilicola orientalis Mori: son action sur les huîtres du bassin d'Arcachon au cours de l'été et l'automne 1977".
- K:15 P H Odense and C Annand "Isoenzyme systems of an inshore and an offshore lobster population".
Ref. Marine Environmental Quality Cttee
- K:16 K F Wiborg "Squid, Todarodes sagittatus (Lamarck) in Norwegian coastal waters during the autumn 1977 and spring 1978".

Shellfish Cttee (ctd)

- K:17 E Egidius "Lobster import: two outbreaks of *Gaiffkemia* in Norway".
Ref. Mariculture Cttee
- K:18 G Conan "Comparison between growths at molt of the European and American lobsters in different geographic locations, according to their sex and state of maturity".
- K:19 G Conan "Changes in fishery production of a *Nephrops* population under simplified conditions of varying fishing effort and age structure".
- K:20 G Conan "Molting rhythms and time interval between molts in a *Nephrops norvegicus* population".
- K:21 G Conan "Average growth curves and life history in a *Nephrops norvegicus* population from Northern Bay of Biscay".
- K:22 G Conan, Y Morizur et J Brannelec "A simple photographic technique coupled with computer processing for large-scale assessments of size frequency distributions in commercial landings of *Nephrops norvegicus* from Northern Bay of Biscay".
- K:23 J C Clément "Premiers résultats de l'application d'un modèle bioéconomique à la pêcherie de langoustines (*Nephrops norvegicus*) du nord du Golfe de Gascogne".
- K:24 R G J Shelton, R Jones, J A M Kinnear and K Livingstone "The lobster fishery at Eyemouth (SE Scotland) - a brief review of its post-war history and the prospects for increasing its long-term yield".
- K:25 F G Howard "The discarded fish by-catch in the Fladen shrimp fishery".
Ref. Demersal Fish Cttee
- K:26 R G J Shelton and W B Hall "A comparison of the efficiency of the Scottish creel and the inkwell pot in the capture of crabs and lobsters".
- K:27 U Skúladóttir, E Jónsson and I Hallgrímsson "Testing for heterogeneity of *Pandalus borealis* populations at Iceland".
- K:28 J I Arnal et C Fernández Pato "La croissance de la palourde (*Venerupis decussata* L.) à la Baie de Santander (Espagne) dans des conditions naturelles".
- K:29 C Fernández Pato et J I Arnal "Variation saisonnière de la mortalité de la palourde (*Venerupis decussata* L.) à la Baie de Santander (Espagne)".
- K:30 C Fernández Pato et J I Arnal "Densité du stock dans une population naturelle de palourdes (*Venerupis decussata* L.) à la Baie de Santander (Espagne)".
- K:31 Présenté par J C Dao "Résumé du Groupe de Travail sur les Pectinidés (No.2). Brest, 8-13 mai 1978".

Shellfish Cttee (ctd)

K:32

Withdrawn.

K:33

J P Berthome,
D Razet et
J Garnier

"Etude hydrobiologique du bassin
Marennes-Oléron: incidences sur la
reproduction de Crassostrea gigas en
1977".

K:34

J P Berthome

"Contribution à l'étude des caractères
biométriques de Crassostrea gigas
dans le bassin de Marennes-Oléron,
avec la détermination d'un coefficient
de qualité externe".

Reference Papers to the Shellfish Committee

D:12
Statistics
Cttee

C Taille and
R L Wigley

"Transect sampling methods and their
applications to the deep-sea red
crab".

F:12
Mariculture
Cttee

R W Fairfull,
L E Haley and
J D Castell

"Growth and genetics in the American
lobster (Homarus americanus) at 3
temperatures, 2 diets and with and
without bilateral eyestalk ablation".

F:16
Mariculture
Cttee

J E Stewart

"The lobster disease, Gaffkemia, in
relation to fisheries management".

F:17
Mariculture
Cttee

L Leibovits

"A study of Vibriosis at a Long Island
shellfish hatchery".

F:18
Mariculture
Cttee

D E Aiken

"Importance of lobster culture research
to fisheries management".

F:24
Mariculture
Cttee

D V Lightner

"Gill disease: a disease of wild and
cultured penaeid shrimp".

L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

- L:1 Administrative Report (with Annex 1).
- L:2 S B Schnack "Microdistribution of phytoplankton in Kiel Bay".
- L:3 H Möller "Significance of coelenterates in relation to other plankton organisms".
- L:4 T Pommeranz "The use of net sonde for control of bottom distance in plankton tows".
- L:5 T Pommeranz "Attempts for quantitative studies in the distribution of adult krill (Euphausia superba) in the Scotia Sea".
- L:6 "Recent publications of interest to the Biological Oceanography Committee".
- L:7 H Tambs-Lyche "Introduction to the plankton chapter in 'Annales Biologiques', Vol.34 (1977)".
- L:8 V M Ryzhov "Seasonal dynamics of the phytoplankton development in the eastern Barents Sea".
- L:9 V V Rossov "Whether phytoplankton is an indicator of fish concentrations distribution".
- L:10 S S Drobysheva "The role of water temperature and bottom relief in the formation of the Barents Sea Euphausiacea concentrations".
- L:11 S N Semionova "Algocene development off the northwest African coast".
- L:12 M Mastail "Présence de Temora stylifera, Dana 1849, sur les côtes de Bretagne et du Contentin".
- L:13 Z Ringer "Results of phytoplankton studies on Georges Bank - Nantucket shoals in 1976-77".
- L:14 K Siudziński "Quantitative distribution of herring larvae (Clupea harengus L.) in the North Sea".
Ref. Pelagic Fish Cttee
- L:15 S Grimm "Distribution, abundance and mortality of herring larvae on Nantucket shoals and Georges Bank in spring 1976 - Région 5Z".
Ref. Pelagic Fish Cttee
- L:16 S Grimm "Composition of Georges Bank ichthyoplankton community in October 1977".
- L:17 M Borysiak "Quantitative distribution of phytoplankton in the southern Baltic in 1977".
- L:18 F Vives "Les copépodes des eaux néritiques des côtes de Viscaya (N. de l'Espagne) pendant 1976".
- L:19 H G Franz, M Ottema and P A Seip "Abundance and growth of fish larvae during the summer decline of copepod populations in Dutch coastal waters of the North Sea and possible interactions with jellyfish and ctenophores".
- L:20 M Mastail et A Battaglia "Amélioration de la conservation des pigments du zooplancton".

Biological Oceanography Cttee (ctd)

- L:21 E-J Hirche "On the occurrence of a diapause in marine calanoid copepods".
- L:22 W N Bonner,
I Everson
and P A Prince "A shortage of krill, Euphausia superba, around South Georgia".
- L:23 W N Bonner,
A Clarke,
I Everson,
R B Heywood,
T M Whitaker
and M G White "Research on krill in relation to the Southern Ocean ecosystem by British Antarctic Survey".
- L:24 K Sherman "Ecological implications of biomass changes in the Northwest Atlantic".
- L:25 K Sherman,
L Sullivan
and R Byron "Pulses in the abundance of zooplankton prey of fish on the continental shelf off New England".
- L:26 S Holzlöhner "Observations on Euphausia superba Dana in the region off South Georgia in Antarctic summer season 1977/78".
- L:27 E B Cohen
and W R Wright
Ref. Hydrography
Cttee "Changes in the plankton on Georges Bank in relation to the physical and chemical environment during 1975-76".
- L:28 J E Beyer and
G C Laurence "A stochastic model of larval fish growth".
- L:29 R J R Grainger
Ref. Pelagic
Fish Cttee "Observations on the vertical distribution of early herring larvae in Galway Bay, Ireland".
- L:30 W G Smith,
L Sullivan
and P Berrien
Ref. Demersal
Fish Cttee "Fluctuations in production of sand lance larvae in coastal waters off the north-eastern United States, 1974 to 1977".
- L:31
Withdrawn.
- L:32 P C Reid
Ref. Hydrography
Cttee "Changes in the salinity of the eastern North Sea 1948-1974".
- L:33 D V P Conway "The food of larval blue whiting (Micromesistius poutassou (Risso)) in the Rockall area".
- L:34 J C Gamble,
P MacLachlan,
N T Nicoll and
I G Baxter "Morphological changes during larval development of herring (Clupea harengus L.) reared in large plastic enclosures".
- L:35 S J Hay and
J R G Hislop "The distribution and abundance of Scyphomedusae in the North Sea during the summer of 1977".
- L:36 A Calabrese,
F P Thurberg,
E Gould and
J T Gaikoski
Ref. Marine
Environmental
Quality Cttee "OCEAN PULSE: some physiological, biochemical and microbiological activities".
- L:37 J P Thomas,
J E O'Reilly,
C N Robertson
and W C Phoel "Primary productivity and respiration over Georges Bank during March and July 1977".

Biological Oceanography Cttee (ctd)

L:38	C E Nauen	"Population dynamics of the sea star, <u>Asterias rubens</u> L., an important competitor to demersal fish stocks in Kiel Bay".
L:39 Ref. Demersal and Pelagic Fish Cttees	G Joakimsson	"On the occurrence and distribution of fish larvae on Georges Bank and Nantucket shoals in November 1972 - 1977 (1976 excluded)".
L:40	J Kastendiek	"Detection of plant (nuclear generating station) induced effects as detected by experimental benthic populations".
L:41	M R Reeve, M A Walter and K Stanlaw	"Unexpected predator/prey interactions in the zooplankton".
L:42 Ref. Publications Cttee	J H Fraser	"Plankton Sheets - Editor's report 1977-78".

Reference Papers to the Biological Oceanography Committee

B:6 Fishing Techn. Cttee	G Freytag, H Mohr and R Steinberg	"Investigations on Antarctic krill with advanced echo-sounding and gear techniques".
B:14 Fishing Techn. Cttee	P Porche	"Réalisation d'un nouveau collecteur de plancton à grande vitesse et à échantillonnages multiples dit 'collecteur à barillet'".
C:2 Hydrography Cttee	H W Hill and D Harding	"Studies on a plaice egg patch in the Southern Bight of the North Sea in 1978".
C:6 Hydrography Cttee	G Weichart	"Chemical changes and primary production in the Fladen Ground area (North Sea) during the first phase of a spring phytoplankton bloom".
C:11 Hydrography Cttee	T M Vanselous and A J Kemmerer	"Report of the meeting of the ICES Aerospace Remote Sensing Working Group, 17-19 May 1978, Maryland".
C:24 Hydrography Cttee	G Kullenberg	"Some experience from participation in BOSEX 77 and FLEX 76".
C:25 Hydrography Cttee		"Report of the Study Group on the Programme for a 'Patch Study' in the North Sea".
C:38 Hydrography Cttee	K P Koltermann and G Radach	"Links between physical and biological data in the FLEX box".
C:44 Hydrography Cttee	A Svansson	"The organisation of JONSDAP 76".
C:52 Hydrography Cttee	S. H Fonselius	"On the hydrographic conditions around the BOSEX area".

Biological Oceanography Committee (ctd)

Reference papers

C:55 Hydrography Cttee	R De Clerck, J P Heco, J P Monnaerts, H Picard and Y van Keymeulen	"Belgian contribution to the experiment of plaice egg and larvae diffusion".
H:14 Pelagic Fish Cttee	H Grave	"Feeding of mackerel larvae and early juveniles in the central North Sea".
H:27 Pelagic Fish Cttee	S Arbault et N Lacroix	"Oeufs et larves de clupéidés et Engraulidé dans le golfe de Gascogne (1969-1973)".
H:37 Pelagic Fish Cttee		"Report on joint Soviet-Icelandic investigations on hydrobiological conditions in Icelandic waters and the Norwegian Sea in May-July 1978".
H:38 Pelagic Fish Cttee	C E Stillwell and N E Kohler	"Food habits of the shortfin mako (<u>Isurus oxyrinchus</u>) in the Northwest Atlantic".
H:39 Pelagic Fish Cttee	J R Green	"Theoretical food rations of Gulf of Maine and Georges Bank herring stocks".
J:5 Baltic Fish Cttee		"Report of the Working Group on Surveys of Fish Eggs and Larvae in the Baltic, Sweden, 8 May 1978".
J:16 Baltic Fish Cttee	O Bagge, A Müller and U J Hansen	"Mortality of cod eggs in the Bornholm Basin 1978".
J:19 Baltic Fish Cttee	V Sjöblom and E Kuittinen	"Further findings of <u>Phocascaris</u> sp. (Nematoda) in Baltic herring off the coast of Finland".
J:20 Baltic Fish Cttee	F Halling	"Autumn-spawning herring larvae and the abundance of copepods off the Åland Islands in September-November 1977".
J:26 Baltic Fish Cttee	E Biester and N Brielmann	"Results of herring larvae research in the Greifswalder Bodden".
K:3 Shellfish Cttee	J H Nichols and M Cryer	"Hatching areas and drift of the planktonic stages of the edible crab <u>Cancer pagurus</u> L. off the northeast coast of England in 1976".

M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE

- M:1 Administrative Report.
- M:2 T F Cross,
J A Healy and
F J O'Rourke "Population discrimination in Atlantic salmon from Irish rivers using biochemical genetic methods".
- M:3 R Sych,
W Palka and
K Bieniarz "Smolt-size dependent effects of fishing on example of the Vistula sea trout".
- M:4 V Hilge
and H Klinger "Changes in the hemogram of the male European eel (Anguilla anguilla L.) during induced maturation".
- M:5 F-W Tesch "Occurrence of eel larvae (Anguilla anguilla) west of the European continental shelf 1971-1977".
- M:6 I N Grinyuk,
S V Kanep,
V Z Salmov and
M Ya. Yakovenko "Effect of ecological factors upon pink salmon population in basins of the White and Barents Seas".
- M:7 A Mitans and
J Rimsh "Distribution in the sea and rate of recaptures of Baltic salmon smolts from Gulf of Riga rivers".
- Ref. Mariculture
Cttee
- M:8 Baltic Salmon
Working Group "An introduction to the Baltic Salmon Synopsis 'Review of Baltic Salmon Research'".
- M:9 "Report of the 23rd Meeting of the Baltic Salmon Working Group in Alvkarleby, Sweden, 26-28 April 1978".
- M:10 E M P Chadwick
and D J Meerburg "Sea survival of ISW Atlantic salmon".
- M:11 D Reddin
and R K Misra "Multivariate analyses of Atlantic salmon caught in the Twillingate Newfoundland commercial fishery".
- M:12 P H Odense,
C Annand and
A M Sutterlin "Isoenzyme systems of some salmonids and their crosses".
- Ref. Marine
Environmental
Quality Cttee
- M:13 P Prouzet "Relationship between density and growth of Atlantic salmon reared in nursery streams in natural conditions".
- Ref. Mariculture
Cttee
- M:14 P Prouzet,
Y Harache
and J Brahellec "An attempt to explain the fluctuations of Atlantic salmon catches in the river Elorn during the 1966-1977 period".
- M:15 Y Harache,
G Boeuf
and J P Carval "Results of sea water rearing of 0 age coho salmon smolts after direct transfer or progressive adaptation".
- Ref. Mariculture
Cttee
- M:16 G Boeuf,
P Lasserre and
Y Harache "Influence of time and type of transfer to sea water on gill (Na⁺ + K⁺) adenosine triphosphatase in zero age coho salmon (Oncorhynchus kisutch Walbaum)".
- Ref. Mariculture
Cttee
- M:17 P Lagarde
and Y Harache "An internal magnetic tag for aquatic animals".

Anadromous and Catadromous Fish Cttee (ctd)

M:18		Withdrawn.
M:19	S Jennerich	"Studies on advancing the spawning season of rainbow trout (<u>Salmo gairdneri</u> Richardson)".
M:20 Ref.Mariculture Cttee	B Holmberg	"Production of salmon and sea trout smolts in brackish cooling water from a nuclear power plant".
M:21	F-W Tesch and C L Deelder	"Catches of metamorphosing eel larvae (<u>Anguilla anguilla</u>) between Europe and the Azores and some remarks on their development under laboratory conditions".
M:22	B B Parrish	"West Greenland, Norwegian Sea and home waters salmon catches in the North Atlantic in 1976 and 1977". (See also C.M.1978/M:22 - Appendix 1)
M:22/App.1		"Norwegian salmon catches (in kg) in 1976 and 1977".
M:23	K A Mitchell	"Changes in the reported catch of summer salmon in the Scottish salmon net fishery, 1952-1976".
M:24 Ref.Mariculture Cttee	M Holm and A Fernø	"Aggression and growth of different populations of Atlantic salmon parr".
M:25	H Lassen	X "An assessment model applied to the Baltic salmon".
M:26	K A Mitchell	X "The effects of the Greenland salmon fishery on Scottish net catches and sea/age relationships".

Reference Papers to the Anadromous and Catadromous Fish Cttee

F:4 Mariculture Cttee	H Kuhlmann and H Koops	"The silvering of eels, cultured under warm water conditions".
F:14 Mariculture Cttee	E Anders	"Oral immunization of young rainbow trout and eels against <u>Vibrio anguillarum</u> ".
F:21 Mariculture Cttee	A M Sutterlin, K J Jokola and B Holte	"Observations on the behaviour of salmonid fish in ocean pens".

N - MARINE MAMMALS COMMITTEE

- N:1 Administrative Report (with Annex 1).
- N:2 "List of publications on marine mammals, 1977"
- N:2/Annex 1 "List of publications - Canadian Universities".
- N:2/Annex 2 "List of publications - Netherlands".
- N:3 "ICES Working Group on Grey Seals. Second report".
- N:4 C F Summers and J Harwood "Indirect effects of Grey seal culls".
- N:5 J H Prime "Analysis of a sample of Grey seal teeth from the Faroe Islands".
- N:6 C H Lockyer and S G Brown "Biology of fin and sei whales off Iceland".
- N:7 H G Francz and P J H Reijnders "Estimation of birth rate and juvenile mortality from observed numbers of juveniles in a seal population with normally dispersed reproduction".
- N:8 C. Alzieu et R Duguy "Teneurs en composés organochlorés chez les Cétacés et Pinnipèdes fréquentant les côtes françaises".
- Ref. Marine Environmental Quality Cttee
- N:9 R Duguy "Status passé et actuel du phoque veau-marin (Phoca vitulina, Linn., 1758) sur les côtes de France".
- N:10 D Prieur et R Duguy "Le status du phoque gris (Halichoerus grypus) en France".
- N:11 R Duguy et Ph. Babin "Note sur une lésion rénale léthale chez Delphinus delphis".
- N:12 H E Drescher "Pup production, whelping and nursing season of the harbour seal, Phoca vitulina, in the Waddensea of Schleswig-Holstein (Fed.Rep.Germany)".
- N:13 A W Mansfield "Reproduction of grey seal Halichoerus grypus in eastern Canada".

Reference Papers to Marine Mammals Committee

- E:40 L A Caines "Heavy metal residues in grey seals (Halichoerus grypus) from the Farne Islands".
- Marine Environ. Quality Cttee
- E:41 A V Holden "Organochlorine residues in blubber of grey seals (Halichoerus grypus) from the Farne Islands".
- Marine Environ. Quality Cttee

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POSTER SESSIONS AT THE 66th STATUTORY MEETING

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|------|--|--|
| No.1 | G D Grice
and M R Reeve | "Controlled ecosystem populations
experiment". |
| No.2 | M Bølter,
M Meyer and
B Probst | "A statistical scheme for structure
analysis in marine ecosystems". |
| No.3 | R Maurer,
W C Johnson,
H P Jeffries
and K Sherman | "Initial results on semi-automatic
identification and size-frequency
analysis of zooplankton samples". |
| No.4 | J C van Olst,
J M Carlberg
and R F Ford | "Aquaculture systems utilizing thermal
effluent". |

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