

CONSEIL INTERNATIONAL  
POUR L'EXPLORATION DE LA MER

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Votre réf.:

Au sujet:

Notre réf.: D.l.a./79

Date: November 1979

Dear Sirs,

Please find enclosed a complete set - to the extent available - of 1979 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 and mailing.

We wish, however, to draw your attention to the following papers which were either withdrawn or never received for the meeting:-

C:3	G:29
C:10	G:37
E:11	G:43
E:20	G:57
F:34	H:11
F:45	H:58
F:50	K:39
G:13	K:44
G:14	L:6
G:15	M:7

and, E:68 is now part of gen:la.

Further, the below-mentioned papers are not enclosed because they were intended for the members of the relevant Committees only:-

C:50\*  
C:51\*  
C:57\*  
C:58\*  
C:61\*  
C:62\*  
C:63\*  
L:11\*  
M:27\*  
M:35\*

Yours faithfully,

ICES SECRETARIAT

Contributions to be presented at the Statutory Meeting.

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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 the 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 Reports on Symposia and Workshops arranged by ICES 1978/79" (including Doc. C.M.1979/E:68).
- ✓ Gen:2 "Activities of the International Council for the Exploration of the Sea 1978/79".
- ✓ Gen:3 "Advance Release of Tables 1-5 and K of Bulletin Statistique, Vol. 63, 1978".
- ✓ Gen:4 "Election of Committee Chairmen at the 67th Statutory Meeting". (E+F)
- ✓ Gen:5 "Note on Recommendations and Reports". (E+F)
- ✓ Gen:6 A Saville "Shortcomings and Gaps in Data required for Stock Assessment Purposes".
- ✓ Gen:7 G Kullenberg (Symp.) "On the potential input of physical oceanography to the elucidation of processes in other marine disciplines".
- ✓ Gen:8 Compiled by ICES Hydrographer "Catalogue of regularly issued marine environmental data products for the ICES area. 1979 issue".
- ✓ Gen:9 M Whitfield (Symp.) "The role of chemical reactor theory in integrated studies of saline waters".
- ✓ Gen:10 "Possibilities for a dialogue on fishery management".
- ✓ Gen:11 D H Cushing (Symp.) "Production in the central gyres of the Pacific".
- ✓ Gen:12 NAFO

Del - DELEGATES MEETINGS

- Del:1\* "Audited accounts for 1977/78 with balance sheet per 31/10 1978".
- Del:2\* "Preliminary report on the administration 1978/79".
- Del:3\* "Administrative reports of area- and subject Committees 1978" - please see under the respective Committees.
- Del:4\* "Estimated accounts for the financial year 1978/79".
- Del:5\* "Budget for the financial year 1979/80". (E+F)
- Del:6\* "Forecast Budget for the financial year 1980/81". (E+F)
- Del:7\* "Proposals for amendment of the Rules of Procedure". (E+F)
- Del:8\* "Elections to be undertaken by the Council at the 67th Statutory Meeting". (E+F)
- Del:9\* "The Council's computer problems".
- Del:10\* "Information on the free distribution of the Council's publications".
- Del:11\* "Arrangements for international fisheries research".
- Del:12\* "Possibilities for savings on future budgets".
- Del:13\* "Job descriptions for the Secretariat staff".

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\* For Delegates only.



B - FISHING TECHNOLOGY COMMITTEE

- B:1 Administrative Report.
- B:2 P J G Carrothers "The effect of load distribution on the mathematical planforms of trawl frame lines".
- B:3 "Report of the Working Group on Research on Engineering Aspects of Fishing Gear, Vessels and Equipment".
- B:4 "Working Group on Reactions of Fish to Fishing Operations, 9-10 May 1979, Göteborg".
- ✓ B:5 T J Pitcher "The role of schooling in fish capture".  
Ref. Pelagic Fish Cttee
- ✓ B:6 K Lange "Full scale trials with long-rope trawls".  
Ref. Pelagic Fish Cttee
- B:7 H Mohr and G Rauck "First results of German experiments with a selective shrimp trawl".  
Ref. Shellfish Cttee
- B:8 "Report of the Data Collection Working Group Meeting in Gothenburg, Sweden, 9 May 1979".
- B:9 A C Burd and M R Vince "Experiments with beam trawls".
- B:10 G Kurc "Rapport général sur les réunions du Comité de Technologie des Pêches à Göteborg (Suède), 7 au 11 mai 1979".  
"General Report - Fishing Technology Committee Working Groups, Göteborg, Sweden, 7 to 11 May 1979".
- B:11 D J Garrod "Fishing performance in the UK fleet 1974-77".  
Ref. Demersal and Pelagic Fish Cttees
- B:12 A Watson, R Millner and B Mumford "Selection of sole (Solea solea (L.)) by trammel nets and the effect of mesh size on catches".
- B:13 R Guichet "Sélectivité des poches en polyamide dans la pêche de la sole (Golfe de Gascogne, 1979)".  
Ref. Demersal Fish Cttee
- B:14 J Bertrand et J Kopp "Principaux types d'engins fixes utilisés le long des côtes du Cotentin pour la capture des crustacés et des mollusques".  
Ref. Shellfish Cttee



Fishing Technology Cttee (ctd)

Reference Papers to the Fishing Technology Committee

G:51  
Demersal Fish  
Cttee

J Dalen and  
O M Smedstad

"Acoustic method for estimating  
absolute abundance of young cod  
and haddock in the Barents Sea".

K:29  
Shellfish  
Cttee

J B Perodou  
et R Pinget

"Observations sur la pêche de la  
seiche Sepia officinalis au casier  
en baie de Vilaine".

K:30  
Shellfish  
Cttee

A Charuau

"Sélectivité des fonds de chaluts  
en polyéthylène dans la pêche de  
la langoustine".



C - HYDROGRAPHY COMMITTEE

- C:1 Ref. Marine Environmental Quality Cttee "First Report of the Marine Chemistry Working Group, Lisbon, 8-11 May 1979".
- C:2 Ref. Marine Environmental Quality Cttee G Dahlmann, H Gaul and G Weichart "Investigations of temperature, salinity, oxygen, pH, alkalinity and organic pollutants in the Baltic Sea during BOSEX 77".
- C:3 Withdrawn.
- C:4 Ref. Marine Environmental Quality Cttee D Schmidt and H Zehle "Trace metals in Baltic Sea water during BOSEX 77".
- C:5 Ref. Anacat. Cttee G Wegner "First hydrographic results from the Sargasso Sea expedition with FRV 'Anton Dohrn', 19.3. - 9.5.1979".
- C:6 J Malicki and D Wielbińska "Meteorological research of the Baltic Sea area and prospects of their further development".
- C:7 A Juśkiewicz "Air-temperature transformation over the Baltic Sea during BOSEX 77".
- C:8 E Skrzypczak and D Wielbińska "Wind field pattern and moisture content over Southern Baltic during BOSEX 77".
- C:9 Ref. Marine Environmental Quality Cttee E Andrulowicz, A Brzezińska and A Trzosińska "Some aspects of the chemical composition of particulate matter in the Southern Baltic".
- C:10 Z Catewicz "Mesoscale variability of currents in the Southern Baltic Sea".
- C:11 A Jankowski and Z Kowalik "Diagnostic model of wind- and density-driven currents in the Baltic Sea".
- C:12 A Grelowski and M Pastuszak "Preliminary determination of occurrence and movements of water masses in the region of South Georgia Island".
- C:13 A Majewicz "Note on water dynamic in the frontal zone of Brazil and Falkland currents".
- C:14 Ref. Biol. Oceanography Cttee. B Szpiganowicz "The content of biogenic elements and oxygen in the frontal zone of the Brazil and Falkland currents".

Hydrography Cttee (ctd)

- C:15 A Furtak and J Wysocki "Distribution of water temperature on Flemish Cap Bank in spring 1978".
- C:16 T S Jacobsen "Recent results on the water exchange of the Baltic".
- C:17 "Recommendation from the International Workshop on Remote Sensing. Sea truth data. (ISPRA, Sept. 12-14, 1978)".
- C:18 B Hansen "Residual flow and temperature on the Faroe plateau during the first half of 1978 in relation to the circulation".
- C:19 O V Tyagunova "Large-scale temporal variations of hydrological conditions in the Denmark Strait and adjacent areas".
- C:20 S H Fonselius "Intercomparison of hydrographical measurements during the BOSEX-77".
- C:21 E Hagen and R Weiss "Mesoscale coastal upwelling dynamics off the NW-African coast and hypothetical relations to the chub mackerel concentrations".
- Ref. Pelagic Fish Cttee
- C:22 W Matthäus "Long-term variations of the primary halocline in the Gotland Basin".
- C:23 N Michelsen "Analysis of long-term meteorological field variations in the upwelling area along the NW-African coast".
- C:24 D Nehring "Relationships between salinity and increasing nutrient concentration in the mixed winter surface layer of the Baltic from 1969-78".
- Ref. Biol. Oceanography Cttee
- C:25 D Nehring and A Wilde "Investigations on the atmospheric transport of nutrients into the Baltic".
- Ref. Biol. Oceanography Cttee
- C:26 J W Ramster "Some of the lessons learnt from JONSDAP '76 in the planning and organisation of large-scale cooperative oceanographic exercises".
- C:27 J W Ramster and P A Gurbutt "A near-bed intercomparison in 1172 metres of water of an Aanderaa RCM4 current meter and a Plessey 9021 current meter".
- C:28 K Grasshoff "The carbon dioxide problem, a challenge for marine chemists".

Hydrography Cttee (ctd)

- C:29 "Report on the meeting of ICES Working Group on Aerospace Remote Sensing (Valbonne, France, 13-14 June, 1979)".
- C:30 Jens Smed "Report on the Joint IOC/WMO Seminar and Workshop on Oceanographic Products and the IGOSS Data Processing and Services System (IDPSS)".
- C:31 ICES Hydrographer "Activities of the ICES Service Hydrographique during 1978/79".
- C:32 Jens Smed "Report on the 9th Session of the IOC Working Committee on International Oceanographic Data Exchange".
- C:33 U Stefánsson "Particulate matter in Icelandic surface waters".
- C:34 A Edwards,  
D J Ellett,  
P Kruseman and  
G J Prangma "Temperature-salinity variability in the northern Rockall Trough during JASIN 1978".
- C:35 D J Ellett,  
H D Dooley and  
H W Hill "Is there a North-East Atlantic slope current?".
- C:36 G A Becker "Mean net surface heat exchange of the North Sea".
- C:37 ICES Hydrographer "ICES catalogue of computer programmes in physical and chemical oceanography. 1979 issue".
- C:38 Jens Smed "Introduction to the Hydrography section of 'Annales Biologiques', Vol. 35 (1978)".
- C:39 ICES Hydrographer "Provisional programme of work for ICES Service Hydrographique, 1979/80".
- C:40 A M Davies "Comparison of computed and observed residual currents during JONSDAP '76: preliminary results".
- C:41 Geophysical Inst.,  
Div. of Physical  
Oceanogr., Bergen "Comments on the IAPSO S.U.N. WG's Preliminary Draft Recommendations".
- C:42 J Szaron "Preliminary transport computations of water, salt and nutrients through the Göteborg-Frederikshavn (GF) section in the northern Kattegat, based on measurements 1975-77".

Hydrography Cttee (ctd)

- |   |   |   |
|---|---|---|
| C:43  | M Perttilä<br>and V Tervo   | "Distribution of total organic carbon<br>in the Baltic Sea water in 1977-78".   |
| C:44  | M Perttilä  | "Comments on the intercomparison of<br>the chemical data of the BOSEX-77".  |
| C:45  | P Mätkki  | "Regional survey of current<br>variability in the Archipelago Sea".   |
| C:46<br>Ref. Marine<br>Environmental<br>Quality Cttee | A Voipio and<br>L Niemistö  | "Sedimentological studies and their<br>use in pollution research".  |
| C:47  | J C Nihoul,<br>Y Runfola and<br>B Roisin                            | "Shear effect dispersion in a shallow<br>tidal sea".  |
| C:48  | A Loffet<br>and A Bah   | "Air-sea interactions".   |
| C:49  | G Belhomme<br>and F C Ronday  | "Hydrodynamic models for very shallow<br>coastal seas. Application to the<br>Belgian coast".  |
| C:50*   |   | "Ninth Report of the Joint Panel on<br>Oceanographic Tables and Standards".   |
| C:51*   | ICES Hydrographer   | "Fourth Edition of Manual on ICES<br>Oceanographic Punch Cards".  |
| C:52  | T Gytre   | "The performance of a three axis<br>ultrasonic current sensor when inte-<br>grated into an oceanographic data<br>acquisition system". |
| C:53  | T Gytre   | "A simple field instrument for<br>measuring and recording up to<br>16 observations of current speed and<br>direction".                |
| C:54  | S R Ramp<br>and W R Wright  | "Northeast Channel flow: the view<br>after one year's measurements".  |
| C:55  |   | "ROSCOP summary of U.S. cruises in<br>the ICES area 1978".  |
| C:56  | ICES Hydrographer   | "Notes on the series 'ICES Oceanographic<br>Data Lists and Inventories'".   |
| C:57*   | R E Moffatt,<br>E G Trammel, Jr.,<br>C L Sazama and<br>A L Roberson | "World Data Centre A (Oceanography).<br>Oceanographic data exchange 1978".  |

\* For the relevant Committee only.

C:58  
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61  
62  
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Hydrography Cttee (ctd)

Reference papers

Reference Papers to the Hydrography Committee

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|--|---|---|
| E:8<br>Marine<br>Environmental<br>Quality Cttee  | G Topping,<br>J M Bowers and<br>P G W Jones             | "Summary of past and present<br>measurements of selected trace<br>elements in sea water in the<br>Oslo Commission and ICNAF areas".                     |
| E:37<br>Marine<br>Environmental<br>Quality Cttee | J M Bowers,<br>P A Yeats,<br>J Dalziel and<br>J L Baron | "Report of the Fourth Round Inter-<br>calibration for trace metals in sea<br>water".  |
| E:49<br>Marine<br>Environmental<br>Quality Cttee | J Piuze and<br>M Tremblay.                              | "Mercury in the waters of the<br>St. Lawrence estuary, Quebec,<br>Canada".  |
| E:63<br>Marine<br>Environmental<br>Quality Cttee | V Klemas  | "Remote sensing of coastal fronts<br>and their effects on pollutant<br>dispersion".   |
| H:42<br>Pelagic Fish<br>Cttee                    | Jens Smed   | "Bottom temperature and salinity<br>in the North Sea during the ICES<br>Young Herring Survey in February<br>and March 1979".                            |
| H:59<br>Pelagic Fish<br>Cttee                    |   | "Report on joint Soviet-Icelandic<br>investigations on hydrobiological<br>conditions in the Norwegian Sea<br>and Icelandic waters in May-June<br>1979". |
| L:36<br>Biol.Oceanogr.<br>Cttee                  | W R Wright<br>and R G Lough                             | "The Georges Bank larval herring<br>patch study of 1978: a preliminary<br>report".  |

D - STATISTICS COMMITTEE

D:1

Administrative Report.

✓ D:2

ICES Statistician

"ICES List of Species Items (as at 31 March 1979)".

D:3

"Report of the Working Group on the Eventual Establishment of an ICES ADP System for Fishery Statistics, Charlottenlund, 5-9 March 1979".

✓ D:4

ICES Statistician

"Progress Report".

D:5

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:1 Administrative Report.
- E:1/Appendix 1 "Information about sand and gravel extraction, 1978".
- E:2 "Report of the meeting of the ICES/SCOR Working Group on the Study of the Pollution of the Baltic, Tallinn, USSR, 23-25 January 1979".
- ✶ E:3 "Report of the ICES Working Group on Effects on Fisheries of Marine Sand and Gravel Extraction, 21-23 March, 1979, Rijswijk (Z-H), the Netherlands".
- E:4 R T E Schüttenhelm "The superficial geology of the Dutch sector of the North Sea".
- ✓ E:5 S J de Groot "The consequence of marine gravel extraction for the spawning of herring".  
Ref. Pelagic Fish Cttee
- ✶ E:6 J E Portmann and L Woolner "Residue monitoring: biological factors of importance: results of regression analyses".
- E:7 G Topping "Summary report on a 5th ICES trace metal intercomparison exercise for biological tissue".
- E:8 G Topping, "Summary of past and present measurements of selected trace elements in sea water in the Oslo Commission and ICNAF areas".  
Ref. Hydrography Cttee J M Bowers and P G W Jones
- ✶ E:9 "Recent publications of interest to the Marine Environmental Quality Committee".
- E:10 "Overall report of ad hoc Group on Oil Pollution Incidents, based on meetings in Brest, France, 2-9 June 1978 and Charlottenlund, 13-15 March 1979".
- E:11 Withdrawn.
- ✶ E:12 H von Westernhagen, "Combined effects of Cd, Cu, and Pb on developing herring eggs and larvae".  
V Dethlefsen and H Rosenthal

Marine Environmental Quality Cttee (ctd)

- ✓ E:13 H Möller "Review of the geographical distribution of fish diseases in the northeast Atlantic".  
Ref. Demersal and Pelagic Fish Cttees
- E:14 M Baeteman and W. Wyncke "Phenolic compounds in the water and marine organisms off the Belgian coast".
- E:15 R J Law "Hydrocarbon concentrations in water and sediments from the North Sea and English Channel".
- E:16 C Osterroht and V. Smetacek "Vertical transport of chlorinated hydrocarbons by sedimentation of particulate matter in Kiel Bight".
- E:17 A V Holden "Summary report on 1978/79 ICES Intercalibration Exercise for Organochlorine Analyses".
- E:18 A Franklin "The immigrant Japanese seaweed Sargassum muticum in U.K. waters".
- E:19 M F Hovmand "Atmospheric heavy-metal deposition on land and sea".
- E:20 Withdrawn.
- E:21 R A A Blackmann, J Bonnett and J E Thain "Uptake and loss of cadmium under field conditions by the oyster (Ostrea edulis L.)".
- E:22 "Report of the Working Group on the Introduction of Non-Indigenous Marine Organisms, Conwy, 1-3 April 1979".  
Ref. Mariculture, Shellfish and Aquaculture Cttees
- E:23 R Murchelano and J Ziskowski "Some observations on an ulcer disease of red hake, Urophycis chuss, from the New York Bight".
- E:24 R Murchelano and T Azarowitz "Fish disease surveys in the western North Atlantic".  
Ref. Mariculture Cttee
- E:25 R Murchelano and J Ziskowski "Fin rot disease - a sentinel of environmental stress?".  
Ref. Mariculture Cttee
- E:26 M W Newman, E B Stephens and F M Hetrick "Etiology of 'spinning disease' of Menhaden".  
Ref. Pelagic Fish Cttee



Marine Environmental Quality Cttee (ctd)

- E:27 H C Freeman and G Sangalang "A preliminary study of the effect of di-2-ethylhexyl phthalate on the Atlantic cod (Gadus morhua)".
- E:28 D W McLeese, S Ray and C D Metcalfe "Chlorinated hydrocarbon pesticides and polynuclear aromatic hydrocarbons in sediments and invertebrates from three coastal areas in New Brunswick, Canada, a natural bioassay".
- E:29 S Ray, D W McLeese and C D Metcalfe "Heavy metals in sediments and invertebrates from three coastal areas in New Brunswick, Canada, a natural bioassay".
- E:30 C M Morrison and P H Odense "The use of scanning electron microscope in assessing the condition of gill lamellae, with particular reference to the effects of cadmium on the gill of brook trout (Salvelinus fontinalis)".
- E:31 Ref. Mariculture Cttee C M Morrison, R G Appy, G Shum, C Annand, and P H Odense "Histology and the incidence of pseudobranch tumours in Atlantic cod (Gadus morhua) in Halifax harbour".
- E:32 Ref. Mariculture Cttee M Gutierrez "On the staining of capsules and filaments of Myxobolus sp. and Kudoa sp. parasite protozoa on certain marine fishes".
- E:33 R Establier and M Gutierrez "Accumulation and histopathological effects of cadmium to the Lisa, Mujil auratus Risso".
- E:34 A Lucas et S le Roux "Les embryons et larves de bivalves organismes-tests, vis-à-vis de la toxicité des hydrocarbures".
- E:35 L Brüggmann "Trace metals in the central tropical Atlantic Ocean".
- E:36 "Report of the Fifth Meeting of the Working Group on Marine Pollution Baseline and Monitoring Studies in the North Atlantic, Lisbon, 15-17 May 1979".
- E:37 Ref. Hydrography Cttee J M Bewers, P A Yeats, J Dalziel and J L Baron "Report of the Fourth Round Intercalibration for trace metals in sea water".

Marine Environmental Quality Cttee (ctd)

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| E:38                                 | R F Addison   | "An assessment of the hazard to the marine environment of a PCB replacement based on butylated monochlorodiphenyl ethers".   |
| E:39<br>Ref. Marine<br>Mammals Cttee | J C Duinker and<br>M Th. J Hillebrand                               | "Mobilization of organochlorines from female lipid tissue and transplacental transfer to fetus in a harbour porpoise ( <u>Phocoena phocoena</u> ) in a contaminated area". |
| E:40<br>Ref. Marine<br>Mammals Cttee | J C Duinker,<br>M Th. J Hillebrand<br>and R F Nolting               | "Organochlorines and metals in harbour seals (Dutch Wadden Sea)".  |
| E:41                                 | P F Larsen<br>and L F Doggett                                       | "An overview of nearshore environmental research in the Gulf of Maine".  |
| E:42                                 | R L Lippson<br>and A J Lippson                                      | "The condition of Chesapeake Bay - an assessment of its present state and its future".   |
| E:43                                 | D Maurer  | "A brief review of the status of selected pollutants (pesticides, hydrocarbons, trace metals) in relation to benthic invertebrates in Delaware Bay".                       |
| E:44                                 | K McCarthy, C Gross,<br>R Cooper, R Langton,<br>K Pecci and J Uzman | "Biology and geology of Jeffreys ledge and adjacent basins: an unpolluted inshore fishing area, Gulf of Maine, NW Atlantic".   |
| E:45                                 | J B Pearce  | "Raritan Bay - a highly polluted estuarine system".  |
| E:46                                 | D K Phelps  | "Narragansett Bay - a gradient of stress?"   |
| E:47                                 | R N Reid  | "Contaminant concentrations and effects in Long Island Sound".   |
| E:48                                 | R L Swanson,<br>H M Stanford<br>and D M Goodrich                    | "A monitoring plan for the New York Bight".  |
| E:49<br>Ref. Hydrography<br>Cttee    | J Piuze and<br>M Tremblay   | "Mercury in the waters of the St. Lawrence estuary, Quebec, Canada".   |
| E:50                                 | D Cossa,<br>E Bourget<br>and J Piuze                                | "Age dependence of trace metal content in <u>Mytilus edulis</u> L.".   |

Marine Environmental Quality Cttee (ctd)

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|--------------------------------------|--|---|
| E:51                                 | J E Solbakken<br>and K H Palmork   | "Accumulation and metabolism of phenanthrene in rainbow trout ( <u>Salmo gairdneri</u> )".  |
| E:52                                 | P Tulkki   | "Oil spill of the tanker 'Antonio Gramsci'. Measures and observations in Finland".  |
| E:53                                 | K H Palmork<br>and J E Solbakken   | "Accumulation and metabolism of phenanthrene in Norway lobster ( <u>Nephrops norvegicus</u> )".   |
| E:54<br>Ref. Demersal<br>Fish Cttee  | G Conan<br>and M Friha   | "Impact of the 'Amoco Cadiz' oil spill on the growth of soles and plaice in the 'Aber' estuaries of Northern Brittany".   |
| E:55                                 | J N Kremer<br>and P Kremer   | "Ecological simulation model of Los Angeles harbor receiving waters (California, USA)".   |
| E:56                                 | S W Nixon<br>and V Lee   | "Spatial and temporal pollution gradients in Narragansett Bay".   |
| E:57                                 | M E Q. Pilson,<br>G Vargo, C Hunt,<br>J Gearing,<br>P Gearing and<br>K Hinga | "Use of MERL microcosms to study the fates and effects of marine pollutants".   |
| E:58                                 | J M Bouquegneau,<br>F Noël-Lambot<br>and A Disteche                          | "Fate of heavy metals in experimental aquatic food chains. Uptake and release of Hg and Cd by some marine organisms. Role of metallothioneins".   |
| E:59                                 | G Gillain,<br>G Duyckaerts and<br>A Disteche                                 | "The determination of trace metals in sea water and suspended matter by classical anodic stripping (Zn, Cd, Pb, Cu) or differential pulse anodic stripping voltammetry with a hanging mercury drop electrode (Zn, Cd, Pb, Cu, Sb and Bi). An approach to speciation". |
| E:60<br>Ref. Biol.<br>Oceanogr.Cttee | J P Mommaerts,<br>W Baeyens and<br>G Decadt                                  | "Synthesis of research on nutrients in the Southern Bight of the North Sea".  |
| E:61                                 | W Baeyens,<br>G Decadt and<br>I Elskens                                      | "Determination of dissolved, particulate and total mercury in the watercolumn of the Southern Bight of the North Sea, with adapted analytical procedures".  |



Marine Environmental Quality Cttee (ctd)

Reference papers

Reference Papers to the Marine Environmental Quality Committee

C:1 Hydrography Cttee		"First Report of the Marine Chemistry Working Group, Lisbon, 8-11 May 1979".
C:2 Hydrography Cttee	G Dahlmann, H Gaul and G Weichart	"Investigations of temperature, salinity, oxygen, pH, alkalinity and organic pollutants in the Baltic Sea during BOSEX 77".
C:4 Hydrography Cttee	D Schmidt and H Zehle	"Trace metals in Baltic Sea water during BOSEX 77".
C:9 Hydrography Cttee	E Andrulewicz, A Brzezińska and A Trzosińska	"Some aspects of the chemical composition of particulate matter in the Southern Baltic".
C:46 Hydrography Cttee	A Voipio and L Niemistö	"Sedimentological studies and their use in pollution research".
F:15 Mariculture Cttee	J E Stewart	"Special Meeting on Diseases of Commercially Important Marine Fish and Shellfish".
F:61 Mariculture Cttee		"Working Group on the Pathology of Marine Organisms, Conwy, 3-7 April 1979". (E+F)
L:7 Biological Oceanogr. Cttee	N P Morozov and S A Petukhov	"Trace elements in hydrobionts and biotope of the surface layer of sea water in the North Atlantic and the Mediterranean".
N:15 Marine Mammals Cttee	General Secretary	"UNEP plan of action for marine mammals".
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- F:1 Administrative Report.
- F:2 "Report of Study Group on Standardisation of Methodology in Fish Nutrition Research, Hamburg, 21-23 March 1979".
- F:3 "List of publications in the field of the Mariculture Committee, 1978".
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- F:6 D Kuhlmann,  
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P H Koske, J Lenz  
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- F:7 J Lenz,  
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- F:22 T Gjedrem and G Nævdal "Research on quantitative genetics on salmonids in Norway".
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- F:24 M D Hanisak "Cultivation and bioenergetics of the agarophyte, Gracilaria tikvahiae".
- F:25 R Mann "Bioenergetics of marine bivalve molluscs: considerations for the design and operation of large-scale grow-out systems".  
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- F:26 J H Ryther "Mariculture in the People's Republic of China".
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- F:28 A L S Munro "Introduction of Pacific salmon to Europe".

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- F:30

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- F:31

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S Grant,  
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- F:32

J G Stanley

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- F:33

W K Hershberger

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- F:34

H H Haskin

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- F:35

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- F:36

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S W Wall

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- F:37

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- F:38

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- F:39

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- F:40

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Ref. Demersal  
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- F:41 T Banerjee "Toward a partnership among ICES member countries for the development of mariculture programs".
- F:42 E Losee "Experimental examination of selection for commercial traits in the oyster, Crassostrea virginica".
- F:43 S Stiles "Experimental inbreeding and hybridization in the commercial American oyster".
- F:44 R W Menzel "Genetic manipulations of bivalve molluscs for mariculture".  
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- F:45 S R Zell "Preservation of rainbow trout and Atlantic salmon gametes".  
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- F:46 G Gall "Genetic of fish: what do we know and what do we not know?".
- F:47 J A West "The role of genetics in commercial cultivation of seaweeds".
- F:48 S R Malecha, J B Peebles and D Sarver "Approaches to the study of domestication in aquaculture: the development and characterization of genetic stocks and their hybrids in the cultured freshwater prawn, Macrobrachium rosenbergii".
- F:49 F K Hoornbeek "Chromosome manipulation in the breeding of smooth and winter flounders".
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- F:52 V Oiestad and E Moksness "Interaction between Atlanto-Scandian herring larvae (Clupea harengus L.) and capelin larvae (Mallotus villosus) in a concrete enclosure experiment".
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- K:20 R Boddeke and M Kat "Differences in food preference of penaeid shrimp species".  
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- K:23 G Tige, H Grizel, A Langlade et M A Rabouin "Compléments d'observations sur le cycle du parasite Marteilia refringens (Grizel et coll., 1974)".  
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- M:23 B D Glebe, R G Appy and R L Saunders "Variation in Atlantic salmon reproductive traits and their implications in breeding programs".  
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- M:29 Y Harache et G Boeuf "Variations saisonnières de la tolérance à l'eau de mer de juvéniles de saumon coho (Oncorhynchus kisutch)".  
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- G:1 Administrative Report.
- ✓ G:2 "Report of an ad hoc Working Group on the Norway Pout Box Problem, Charlottenlund, 29 January - 2 February 1979".
- ✗ G:3 "Report of the ICES O-Group Flatfish Working Group, Charlottenlund, 19-21 February 1979".
- G:4 "Publications relative to the interest of the Demersal Fish Committee".
- ✓ G:5 "Report of the Working Group on Fish Stocks at the Faroes, Charlottenlund, 30 April - 2 May 1979".
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- ✓ G:8 "Report of the Working Group on Greenland Halibut in Region 1, Charlottenlund, 7-10 May 1979".
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- G:10/Addendum 1 "Errata to North Sea Flatfish Working Group's Report".
- G:11 G Freytag "Age determinations in Notothenia rossii marmorata".
- G:12 W Weber "On the turbot stock in the North Sea".
- G:13 }  
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- G:16 I V Borkin "Distribution and length composition of the Polar cod larvae in the Barents Sea".
- G:17 I Ya. Ponomarenko and N A Yaragina "Seasonal and year-to-year variations in the feeding of the Barents Sea cod on Euphausiacea in 1947-77".



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- ✓ G:33 J G Shepherd, D H Cushing, J G Pope and J W Horwood "A new relationship between recruitment and parent stock".
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"Biochemical genetic markers as a taxonomic tool: dichotomy of lactate dehydrogenase patterns in gadiform fishes reveals an unnatural grouping".



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F:40 Mariculture Cttee	D P Philipp, W F Childers and G S Whitt	"Genetic structure of largemouth bass ( <u>Micropterus salmoides</u> , perciformes) populations in the United States: correlation of allelic isoenzyme phenotypes with specific thermal environments".
H:16 Pelagic Fish Cttee	J G Pope	"A modified cohort analysis in which constant natural mortality is replaced by estimates of predation levels".
H:31 Pelagic Fish Cttee		"Report on the O-Group Fish Survey in Icelandic and East-Greenland Waters, August-September 1979".
H:34 Pelagic Fish Cttee	I-hsun Ni	"Comparative fish population dynamics - a feasibility study".
H:59 Pelagic Fish Cttee		"Report on joint Soviet-Icelandic investigations on hydrobiological conditions in the Norwegian Sea and Icelandic waters in May-June 1979".
H:61 Pelagic Fish Cttee		"Report of the Norwegian-EEC Joint Scientific Sub-Group on the Distribution of Shared Fish Stocks in the North Sea; 12-15 June 1979, Bergen".
J:8 Baltic Fish Cttee	O Bagge	"The relationship between the size of predator and the size of prey in cod".
K:33 Shellfish Cttee	J A M Kinnear and K Livingstone	"Observations on the feeding of young cod <u>Gadus morhua</u> L. on <u>Nephrops norvegicus</u> (L.) in the Firth of Forth".
K:43 Shellfish Cttee	G Conan and M Friha	"Long-term impact of a change in mesh size from 50 to 70 mm on the yield in weight and fecundity per recruit for Norway lobster populations. Is there a simple solution to a complex problem: a simulation model".
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- ✓ H:3 Edited by:  
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- ✓ H:4 "Report of the Working Group on Herring Larval Surveys South of 62°N, Charlottenlund, 26 and 27 April, 1979".
- ✓ H:5 "Report of the Mackerel Working Group, 23-27 April 1979, Charlottenlund".
- ✓ H:6 "Report of the Herring Assessment Working Group for the Area South of 62°N, Charlottenlund, 30 April - 5 May, 1979".
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- ✓ H:9 R Schöne "Further biological investigations on blue whiting in the Northeast Atlantic during August-December 1978".
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- ✓ H:24 W A Dawson "The maximum sustainable yield of the western mackerel stock, as estimated from catch per unit of effort".
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- ✓ H:31 Ref. Demersal Fish Cttee "Report on the O-Group Fish Survey in Icelandic and East-Greenland Waters, August-September 1979".
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- ✓ H:47                    J P Molloy                    "Fecundities of Celtic Sea autumn/winter spawning herring".
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- ✓ H:50                    F G Carey                    "The activities of free-swimming mako sharks".
- ✓ H:51                    N A Nielsen                    "Prediction of spawning stock and yield using a stochastic model for stock recruitment".
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✓ B:18 Fishing Technology Cttee	K Olsen	"Observed avoidance behaviour of herring in relation to passage of an echo survey vessel".
✓ B:23 Fishing Technology Cttee	B Isaksen	"Estimates of capelin trawl efficiency by comparing the available fish with the actual catch".
✓ B:24 Fishing Technology Cttee	B Isaksen, H Jensen and S Olsen	"Recent developments on blue whiting trawls in Norway".
C:21 Hydrography Cttee	E Hagen and R Weiss	"Mesoscale coastal upwelling dynamics off the NW-African coast and hypothetical relations to the chub mackerel concentrations".
✓ E:5 Marine Environmental Quality Cttee	S J de Groot	"The consequence of marine gravel extraction for the spawning of herring".
✓ E:13 Marine Environmental Quality Cttee	H Möller	"Review of the geographical distribution of fish diseases in the Northeast Atlantic".
E:26 Marine Environmental Quality Cttee	M W Newman, E B Stephens and F M Hetrick	"Etiology of 'Spinning disease' of Menhaden".
✓ G:9 Demersal Fish Cttee		✓ "Report of the Working Group on Division IIIa Stocks, Charlottenlund, 2-9 April 1979".
✓ G:22 Demersal Fish Cttee	R G Houghton	"Density-dependent growth in demersal fish".
✓ G:24 Demersal Fish Cttee	D Pauly and G Gaschütz	✓ "A simple method for fitting oscillating length growth data, with a program for pocket calculators".
✓ G:41 Demersal Fish Cttee	P Sparre	"Some remarks on the application of yield/recruit curves in estimation of maximum sustainable yield".
✓ G:49 Demersal Fish Cttee		"Report of the International O-Group Survey in Faroe Waters, 1979".
✓ G:50 Demersal Fish Cttee		
✓ G:52 Demersal Fish Cttee	T Helgason and H Gislason	"VPA-analysis with species interaction due to predation".

Pelagic Fish Committee (ctd)

Reference papers

- ✓ G:53 W G Doubleday "A sensitivity analysis of selected  
Demersal catch projections".  
Fish Cttee
- ✓ G:58 J A Gulland "Long-term potential rewards from  
Demersal management of fish resources in the  
Fish Cttee North Atlantic".
- ✓ J:9 A Lindquist "Sprat (Sprattus sprattus) in the  
Baltic Baltic and the Skagerrak/Kattegat:  
Fish Cttee stock sizes calculated from VPA, egg  
surveys and echo integrations".
- ✓ J:18 V Sjöblom and "Abundance of sprat off the coast of  
Baltic R Parmanne Finland in 1956-68 and 1975-78  
Fish Cttee according to exploratory fishing with  
a pelagic trawl".
- ✓ L:23 E Houde and "Juvenile Pacific herring Clupea  
Biological S Berkeley harengus pallasii feeding in CEPEX  
Oceanography Cttee enclosures".
- ✓ L:28 E Fridgeirsson "Notes on capelin and sandeel larvae  
Biological collected in Icelandic waters  
Oceanography Cttee 1976-79".



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J - BALTIC FISH COMMITTEE

- |                          |                               |  |
|--------------------------|-------------------------------|--|
| J:1                      |                               | Administrative Report.   |
| J:2                      |                               | "Publications of interest to the Baltic Fish Committee, 1978".   |
| J:3                      |                               | "Report of the Working Group on Assessment of Pelagic Stocks in the Baltic, Charlottenlund, 21-30 May 1979".                                       |
| J:4                      |                               | "Report of the Working Group on Assessment of Demersal Stocks in the Baltic, Charlottenlund, 21-26 May 1979".                                      |
| J:5                      | G Kühlmorgen-Hille            | "Infestation rate of herring in the western Baltic Sea with <u>Anisakis</u> spp."  |
| J:6                      | L Rannak<br>and M Simm        | "Dependance of abundance of the Gulf of Riga spring herring year classes on the supply of larval food".  |
| J:7                      | O Bagge                       | "Danish discards of cod in the Baltic".  |
| J:8                      | O Bagge                       | o "The relationship between the size of predator and the size of prey in cod".   |
| Ref. Demersal Fish Cttee |                               |  |
| u J:9                    | A Lindquist                   | "Sprat ( <u>Sprattus sprattus</u> ) in the Baltic and the Skagerrak/Kattegat: stock sizes calculated from VPA, egg surveys and echo integrations". |
| Ref. Pelagic Fish Cttee  |                               |  |
| J:10                     | M Kosior and<br>K Strzyzewska | o "Fecundity of Baltic cod".   |
| J:11                     | M Kosior and<br>K Strzyzewska | "Fecundity of Baltic herring".   |
| J:12                     | M Kosior and<br>K Strzyzewska | o "Stock recruitment relationship in Baltic cod and herring".  |
| J:13                     | M Kosior                      | "Relation between total length and the length measured from the 1st ray of the dorsal fin to the end of tail fin of Baltic cod".                   |
| J:14                     | J Elwertowski<br>and J Netzel | "A second attempt to evaluate the maximum sustainable yield (MSY) in the Baltic cod fishery".  |
| J:15                     | J Elwertowski                 | "Development of the sprat resources in the Southern Baltic".   |
| J:16                     | J Netzel                      | "Polish investigations on juvenile cod in the Gulf of Gdańsk in 1962-79".  |

## Baltic Fish Committee (otd)

- J:17 B Draganik and Zb. Reimann "Flounder, plaice and turbot fished along the Polish coast in 1978".
- ✓ J:18 V Sjöblom and R Parmanne "Abundance of sprat off the coast of Finland in 1956-68 and 1975-78 according to exploratory fishing with a pelagic trawl".  
Ref. Pelagic Fish Cttee
- J:19 V Sjöblom and R Parmanne "The year class strength of spring spawning Baltic herring estimated from abundance of larvae in the seas around Finland in 1974-79".
- J:20 V Sjöblom and R Parmanne "Abundance of sprat eggs and larvae in the northern Baltic in 1978".
- J:21 V Sjöblom and R Parmanne "Abundance of Baltic herring off the coast of Finland in 1956-68 and 1975-78 according to exploratory fishing with a pelagic trawl".
- J:22 M-B Axell "Feeding of cod in the Åland Sea and its influence on the stocks of herring and sprat".
- J:23 H Lassen "An assessment of the Baltic sprat stock in Sub-divisions 26 and 28 for 1970-78, taking changes in the cod stock into account".
- J:24 K Krenkel and R Hinrichs "Further investigations on the amount and distribution of eggs and larvae of sprat (Sprattus sprattus L.) and cod (Gadus morhua L.) in the Baltic Sea in 1978".
- J:25 C C Friess and R Oeberst "Investigation on fecundity of the Rügen spring spawning herring in 1976-78".
- J:26 H Borrmann and M Berner "An attempt to estimate the optimum fishing mortality rate for Baltic cod".
- J:27 O Rechlin and B Groth "Fluctuations of year class strength and changes in weight growth of the sprat (Sprattus sprattus L.) of the Gotland Sea area".
- ✗ J:28 N Schulz and D Kästner "Further investigations on young cod and herring in the Mecklenburg Bay, in the Arkona Basin and in the northern Bornholm Basin in November 1978 and January 1979".
- ✓ J:29 N Jönsson and E Biester "Results of tagging experiments on the Rügen spring herring 1977/78".



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K - SHELLFISH COMMITTEE

- K:1 Administrative Report.
- ✓ K:2 "Report of the Working Group on Assessment of Nephrops Stocks, Charlottenlund, 12-14 March 1979".
- K:3 "Report of the Working Group on Assessment of Cephalopod Stocks, Aberdeen, Scotland, 6-7 March 1979".
- K:4 "Bibliography of publications relative to the interests of the ICES Shellfish Committee 1978".
- ✓ K:5 "Report of the Working Group on Assessment of Pandalus Stocks, Lysekil, Sweden, 24-26 April 1979".
- K:6 "Report of the Working Group on Assessment of Scallop Stocks, Dublin, 4-6 April 1979".
- K:7 "Report of the Working Group on Crangonid Shrimps, Hamburg, 2-4 May 1979".
- K:8 "Report of the Homarus Working Group, Lowestoft, England, 21-24 May 1979".
- K:9 R Meixner "Assessment of wild Mytilus stocks in the Flensburg fjord (western Baltic)".
- K:10 K Tiews and A Schumacher "Assessment of brown shrimp stocks (Crangon crangon L.) off the German coast".
- K:11 R N Burukowsky, A V Gaevskaya, L N Domanevski, Ch. M Nigmatulin and B G Panfilov "Main results of research on squids carried out by the AtlantNIRO in the central-east Atlantic".
- K:12 G P Ennis "Size-maturity relationship and related observations in Newfoundland populations of the lobster (Homarus americanus)".
- K:13 S R J Lovewell, A E Howard and D B Bennett "The efficiency of parlour pots for catching crabs and lobsters".
- K:14 E Edwards "Preliminary results of an investigation on a new fishery for spider crabs (Maia squinado) along the south coast of England".

Shellfish Committee (ctd)

- K:15 G de Kergariou,  
D Latrouite,  
S Claude et  
D Perodou "Extension de la crépidule  
(Crepidula fornicata) en Manche  
orientale".
- K:16 G Tige,  
E His et  
M A Rabouin "L'évolution de la maladie de la glande  
digestive de l'huître plate dans le  
bassin d'Arcachon et ses conséquences  
actuelles".
- K:17 M Feuillet, M Heral,  
D Razet, F Gueguen  
et M F Abrioux "Les substances dissoutes dans les  
eaux du bassin de Marennes-Oléron  
et dans les eaux interstitielles  
de ses parcs conchylicoles:  
résultats préliminaires".
- Ref. Biol.  
Oceanography  
Cttee
- K:18 J P Berthome,  
J M Deslous-Paoli  
et F Fernandez-Castro "Comparaison de 3 index de qualité  
de l'huître creuse Crassostrea  
gigas".
- K:19 J P Berthome,  
D Razet et  
J Garnier "Etude comparée de deux années de  
reproduction de l'huître creuse  
Crassostrea gigas dans le bassin  
de Marennes-Oléron: aspects  
hydrobiologiques".
- K:20 R Boddeke  
and M Kat "Difference in food preference of  
penaeid shrimp species".
- Ref. Mariculture  
Cttee
- K:21 M P Gras, P Gras,  
M Cosnard et  
J Garnier "Contribution à la mise en place de  
critères de qualité des huîtres  
creuses Crassostrea gigas  
affinées en claires".
- K:22 P Gras et  
M P Gras "Elevages de bivalves à partir de  
naissain d'écloseries dans les  
claires du bassin de Marennes-  
Oléron".
- K:23 G Tige, H Grizel,  
A Langlade et  
M A Rabouin "Compléments d'observations sur le  
cycle du parasite Marteilia  
refringens (Grizel et coll., 1974)".
- Ref. Mariculture  
Cttee
- K:24 H Grizel,  
A Langlade et  
J B Perodou "Premiers essais d'une nouvelle  
technique de captage d'huîtres  
plates en baie de Quiberon".
- K:25 T S Burns,  
S H Clark  
V C Anthony and  
R J Essig "Review and assessment of the USA  
offshore lobster fishery".
- K:26 S A Murawski  
and F M Serchuk "Distribution, size composition and  
relative abundance of ocean quahog,  
Arctica islandica, populations off  
the Middle Atlantic coast of the  
United States".

Shellfish Committee (ctd)

- K:27 J A Posgay "Depth as a factor affecting the growth rate of the sea scallop".
- K:28 J W Ropes and L O'Brien "A unique method of aging surf clams".
- K:29 J B Perodou et R Pinget "Observations sur la pêche de la seiche Sepia officinalis au casier en baie de Vilaine".
- Ref. Fishing Technology Cttee
- K:30 A Charuau "Sélectivité des fonds de chaluts en polyéthylène dans la pêche de la langoustine".
- Ref. Fishing Technology Cttee
- K:31 C C E Hopkins "Ecobiochemical studies on Pandalus borealis (Krøyer) from Balsfjord, northern Norway: preliminary results from a winter situation".
- Ref. Biol. Oceanography Cttee
- K:32 A Koronkiewicz "Some species of Crustacea of Antarctic and New Zealand region caught in 1977 and 1978 by Polish research vessels".
- K:33 J A M Kinnear and K Livingstone "Observations on the feeding of young cod Gadus morhua L. on Nephrops norvegicus (L.) in the Firth of Forth".
- Ref. Demersal Fish Cttee
- K:34 P M J Shelton, R G J Shelton and P R Richards "Eye development in relation to moult stage in the lobster Homarus gammarus (L.)".
- K:35 R G J Shelton, J A M Kinnear and K Livingstone "A preliminary account of the feeding habits of the edible crab Cancer pagurus L. off NW Scotland".
- K:36 F G Howard "Recent trends in the Scottish fishery for Loligo forbesi together with some notes on the biology of the species".
- K:37 J Mason, A M Shanks, D I Fraser and R G J Shelton "The Scottish fishery for the queen, Chlamys opercularis (L.)".
- K:38 J P Hillis "Catch, landings and discards in the Irish Nephrops fishery".
- K:39 Withdrawn.
- K:40 Y Morizur "Utilisation de caractères sexuels secondaires pour la détermination de la taille à maturité sexuelle de Nephrops norvegicus dans la région Sud-Bretagne".

Shellfish Committee (ctd)

K:41 Y Morizur

"Utilisation de critères fonctionnels (présence de spermatophores, maturation des ovaires) pour la détermination de la taille et l'âge à maturité sexuelle de Nephrops norvegicus dans la région Sud-Bretagne".

K:42 Y Morizur

"Evolution du taux de présence de spermatophores chez les femelles de Nephrops norvegicus (L.) et développement ovarien de juillet 1976 à octobre 1978 dans la région Sud-Bretagne".

K:43  
Ref. Demersal Fish Cttee G. Conan and M Friha

"Long-term impact of a change in mesh size from 50 to 70 mm on yield in weight and fecundity per recruit for Norway lobster populations. Is there a simple solution to a complex problem: a simulation model".

K:44

Withdrawn.

K:45 Y Morizur

"Evaluation de la perte d'oeufs lors de l'incubation chez Nephrops norvegicus dans la région Sud-Bretagne".

Reference Papers to the Shellfish Committee

B:7  
Fishing Technology Cttee H Mohr and G Rauck

"First results of German experiments with a selective shrimp trawl".

B:14  
Fishing Technology Cttee J Bertrand et J Kopp

"Principaux types d'engins fixes utilisés le long des côtes du Cotentin pour la capture des crustacés et des mollusques".

E:22  
Marine Environmental Quality Cttee

"Report on the Working Group on the Introduction of Non-Indigenous Marine Organisms, Conwy, 1-3 April 1979".

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Reference papers

F:9 Mariculture Cttee	Th. Neudecker	"Condition index and morphometric data of oysters ( <u>Crassostrea gigas</u> ) from the German Baltic coast".
F:16 Mariculture Cttee	D Latrouite et S Claude	"Essai de culture suspendue de coquilles St. Jacques, <u>Pecten maximus</u> ; influence de la transplantation sur le développement gonadique".
F:19 Mariculture Cttee	M Comps	"Etude du cycle de <u>Marteilia refringens</u> dans l'étang de Thau".
F:20 Mariculture Cttee	J P Joly et M Comps	"Etude ultrastructurale d'une haplosporidae parasite de la palourde <u>Tapes decussatus</u> L.".
F:23 Mariculture Cttee	J M Capuzzo	"The effect of low protein feeds on the bioenergetics of juvenile lobsters ( <u>Homarus americanus</u> Milne-Edwards)".
F:25 Mariculture Cttee	R Mann	"Bioenergetics of marine bivalve molluscs: considerations for the design and operation of large-scale grow-out systems".
F:44 Mariculture Cttee	R W Menzel	"Genetic manipulations of bivalve molluscs for mariculture".
G:53 Demersal Fish Cttee	W G Doubleday	"A sensitivity analysis of selected catch projections".



## L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

- L:1 Administrative Report.
- L:2 "Papers related to the interests of the Biological Oceanography Committee".
- L:3 U Kils "Aspects of physiological ecology of Euphausia superba".
- L:4 I Hempel and G Hempel "Early life history stages of krill in Bransfield Strait and Weddell Sea".
- L:5 J A Adams "A proposal to print a FLEXCAT Catalogue in Cooperative Research Report".
- L:6 Withdrawn.
- L:7 Ref. Marine Environmental Quality Cttee N P Morozov and S A Petukhov "Trace elements in hydrobionts and biotope of the surface layer of sea water in the North Atlantic and the Mediterranean".
- L:8 S S Drobysheva "Distribution of the Barents Sea euphausiids (fam. Euphausiacea)".
- L:9 C Heip, R Herman, G Bisschop, J C R Govaere, M Holvoet, D Van Damme, C Vanosmael, K R Willems and L A P de Coninck "Benthic studies of the Southern Bight of the North Sea and its adjacent continental estuaries".
- L:10 "Report of the Working Group on the Distribution of Larval Fish, Copenhagen, Denmark, 16 to 19 May 1978, and Woods Hole, Massachusetts, USA, 6 April 1979".
- L:11 T C Platt "Draft Prospectus for the Symposium on Primary, Secondary and Fish Production in Selected Shelf Areas in the North Atlantic".
- L:12 G Radach, E Maier-Reimer and U Brockmann "Mathematical models as tools for investigating the flow of matter through the lower trophic levels of the marine ecosystem".
- L:13 H Tambs-Lyche "Introduction to the Plankton Chapter in Vol. 35 of 'Annales Biologiques'".

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- L:14 Z Witek "Results of biological investigations during IV Polish marine Antarctic Expedition in summer 1978/79".
- L:15 F Real and J G Braun "Production studies in Antequera Bay: a comparison with oceanic waters".
- L:16 S Roy and L Legendre "DCMU-enhanced fluorescence and photosynthetic activity of phytoplankton".
- L:17 J L Bigot "Identification des zoés de tourteau (Cancer pagurus L.) et d'étrille (Macropipus puber L.) - Comparaison avec d'autres zoés de morphologie très voisine".
- L:18 M Alcaraz "Coexistence of congeneric planktonic copepods: the Acartia complex in the Ria of Vigo (NW Spain)".
- L:19 F Vives "Sur les larves de crustacés décapodes des côtes de Viscaya (nord de l'Espagne) pendant 1976".
- L:20 S Falk-Petersen and C C E Hopkins "Biological and economic aspects of growth patterns and protein-lipid relationships in the northern krill species, Thysanoessa inermis (Krøyer)".
- L:21 M Plinski "Mathematical model of cyanophyta's invasion in Baltic estuaries".
- L:22 F Fernández "Some characteristics of the particle selection behaviour of the Nauplius larva of Calanus pacificus (Copepoda, Calanoida)".
- ✓ L:23 E Houde and S Berkeley "Juvenile Pacific herring Clupea harengus pallasii feeding in CEPEX enclosures".  
Ref. Pelagic Fish Cttee
- L:24 M Bossicart and J P Mommaerts "A mathematical model of the population dynamics of the dominant copepod species in the Southern Bight of the North Sea, 1977/78".
- L:25 J A Lindley "Continuous plankton records: an increase in the abundance of euphausiids in the eastern central North Sea".
- L:26 P C Reid and T D Budd "Plankton and environment in the North Sea within the period 1948-70".

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- L:27

K Sherman,  
C Jones and  
J Kane

"Zooplankton of continental shelf nursery and feeding grounds of pelagic and demersal fish in the NW Atlantic".
- U L:28

E Fridgeirsson

"Notes on capelin and sandeel larvae collected in Icelandic waters 1976-79".
- Ref. Demersal and Pelagic Fish Cttees
- L:29

R Rosenberg

"Effect of oxygen deficiency on benthic macrofauna in fjords".
- L:30

A B Andersin,  
J Lassig and  
H Sandler

"Recent changes in the occurrence of benthic macrofauna in the central Baltic proper".
- L:31

M Parker

"Algal blooms on the coasts of Ireland: a summary of the Proceedings of a 'Seminar on Red Tides' held in Dublin, March 1979".
- L:32

H Ackefors  
and O Lindahl

"Primary phytoplankton production in the Baltic proper, 1973-76, in relation to secondary zooplankton production".
- L:33

G Joiris, G Billen,  
C Lancelot,  
J P Mommaerts,  
M H Daro,  
M Bossicart,  
G Gillain, A Bertels,  
J H Hecq and  
J Wijnant

"Dynamics of organic matter in three planktonic ecosystems of the southern North Sea".
- L:34

G Gubsch

"Investigations on krill Euphausia superba Dana off South Orkneys and South Shetlands in 1979".
- L:35

S J Hay and  
J R G Hislop

"The distribution and abundance of Scyphomedusae in the North Sea during the summer of 1978".
- L:36

W R Wright  
and R G Lough

o "The Georges Bank larval herring patch study of 1978: a preliminary report".
- Ref. Hydrography Cttee
- L:37

Reference Papers to the Biological Oceanography Committee

- C:14

B Szpiganowicz

"The content of biogenic elements and oxygen in the frontal zone of the Brazil and Falkland currents".
- Hydrography Cttee

Biological Oceanography Committee (ctd)

Reference papers

C:24 Hydrography Cttee	D Nehring	"Relationships between salinity and increasing nutrient concentrations in the mixed winter surface layer of the Baltic from 1969-78".
C:25 Hydrography Cttee	D Nehring and A Wilde	"Investigations on the atmospheric transport of nutrients into the Baltic".
C:26 Hydrography Cttee	J W Ramster	"Some of the lessons learnt from JONSDAP '76 in the planning and organisation of large-scale, cooperative oceanographic exercises".
E:60 Marine Environmental Quality Cttee	J P Mommaerts, W Baeyens and G Decadt	"Synthesis of research on nutrients in the Southern Bight of the North Sea".
F:8 Mariculture Cttee	W Nellen, P Koske, J Lenz, D Kuhlmann, G Quantz and U Witt	"Problems of energy transfer in multiple marine aquaculture systems".
G:47 Demersal Fish Cttee	W Smith, M Pennington, P Berrien and J Sibunka	"Seasonal changes in distribution and abundance of cod and haddock larvae in western North Atlantic, 1974-78".
H:12 Pelagic Fish Cttee	L Domanevsky, E Margolinsky and A Sigaev	"Water circulation, ichthyomass and dolphin distribution in the southern coastal sub-area 34.3 of the central-east Atlantic area 34 (FAO breakdown)".
H:38 Pelagic Fish Cttee	D W McKay	"Report on the International Surveys of Herring Larvae in the North Sea and Adjacent Waters in 1978/79".
H:41 Pelagic Fish Cttee	S H Coombs	"An estimate of the size of the spawning stock of blue whiting ( <u>Micromesistius poutassou</u> ) based on egg and larval data".
H:48 Pelagic Fish Cttee	R J R Grainger	"The distribution and abundance of herring larvae to the south of Ireland in 1978/79".
H:55 Pelagic Fish Cttee	A G Durbin and E G Durbin	"The biology of a filter-feeding planktivore, the Atlantic Menhaden <u>Brevoortia tyrannus</u> , in Narragansett Bay, Rhode Island, USA".
H:59 Pelagic Fish Cttee		"Report on joint Soviet-Icelandic investigations on hydrobiological conditions in the Norwegian Sea and Icelandic waters in May-June 1979".

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Reference papers

K:17  
Shellfish Cttee

M Feuillet,  
M Heral, D Razet,  
F Gueguen et  
M F Abrioux

"Les substances dissoutes dans les  
eaux du bassin de Marennes-Oléron  
et dans les eaux interstitielles  
de ses parcs conchylicoles:  
résultats préliminaires".

K:31  
Shellfish Cttee

C C E Hopkins

"Ecobiochemical studies on Pandalus  
borealis (Krøyer) from Balsfjord,  
northern Norway: preliminary  
results from a winter situation".

M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE

- M:1 Administrative Report.
- M:1/Annex 1 Administrative Report for Poland.
- M:2 S Knutsson  
Ref. Mariculture Cttee "Factors affecting the parr-smolt transformation in Atlantic salmon".
- M:3 "Report of the Joint ICES/EIFAC Working Group on Stocks of Eels, Charlottenlund, 20-22 March 1979".
- M:4 "The 25th Meeting of the Baltic Salmon Working Group, Älvkarleby, Sweden, 2-3 April 1979".
- M:4/Appendix (Corrections to M:4).
- M:5 P Ottestad "On the fluctuations in the yield of the Norwegian salmon fishery".
- M:6 F-W Tesch, R Kracht,  
M Schoth, D G Smith  
and G Wegner "Report on the Eel Expedition of FRV 'Anton Dohrn' and RK 'Friedrich Heincke' to the Sargasso Sea 1979".
- M:7 Withdrawn.
- M:8 K W Jensen "Saltwater releases and saltwater adaptation of smolts of Atlantic salmon".
- M:9 K W Jensen "Experimental drift-netting for salmon in Norway 1978".
- M:10 "Report of the Working Group on North Atlantic Salmon, Charlottenlund 30 April - 3 May 1979".
- M:10/Addendum 1 (Amendments to C.M.1979/M:10 and addendum to the Appendix of the same document)
- M:11 R Sych "Report by the Baltic Salmon Working Group on cooperative sea trout tagging".
- M:12 F Chrzan "Feeding of salmon and sea trout and their food resources in the Baltic Sea".
- M:13 L P Hansen "Net mark frequencies on Atlantic salmon, Salmo salar L., in Norwegian rivers and coastal areas 1978".

Anadromous and Catadromous Fish Committee (ctd)

M:14	P-O Larsson	"Experiments with Carlin-tags of different colours".
M:15	T R Porter	"A review of factors affecting the rate of return of tagged Atlantic salmon smolt and effects of tagging".
M:16	D G Reddin and R F Burfitt	"The stock composition of Atlantic salmon off West Greenland and in the Labrador Sea".
M:17	D G Reddin	"Evidence of an underestimation of the proportion of North American origin Atlantic salmon caught in the commercial fisheries at West Greenland".
M:18	D G Reddin	"Refinement of the estimation of North American and European origin salmon at West Greenland".
M:19	D J Fairbairn	"Evidence for the underestimation of the proportion of North American salmon in West Greenland feeding aggregate".
M:20	D G Reddin and R F Burfitt	"Length, weight, sex and age characteristics of Atlantic salmon ( <u>Salmo salar</u> ) of North American and European origin caught at West Greenland in 1978".
M:21	J K Bailey and R L Saunders	"Preliminary report on releases and returns of two year classes of Atlantic salmon from various pure strains and strain crosses".
M:22	R L Saunders	"Physiological and behavioural changes involved in salmonid smolting with particular reference to Atlantic salmon".
M:23 Ref. Mariculture Cttee	B D Glebe, R G Appy and R L Saunders	"Variation in Atlantic salmon reproductive traits and their implication in breeding programs".
M:24	R A Eisner and J A Ritter	"The Canadian Atlantic salmon ( <u>Salmo salar</u> ) smolt tag and its recovery system: a review".
M:25	J A Ritter and T L Marshall	"A review of non-catch fishing mortality as it relates to Atlantic salmon ( <u>Salmo salar</u> ) fisheries".
M:26	W G Doubleday, J A Ritter and K U Vickers	"Natural mortality rate estimates for North Atlantic salmon in the sea".

Anadromous and Catadromous Fish Committee (ctd)

M:27*	Ole Christensen	"Catches of Baltic salmon in 1976-78".
M:28	E Hoffmann, H Hansen and P M Christensen	"Changes in catch per effort unit and catch composition of silver eels in the southeastern Denmark, 1949-77".
M:29 Ref. Mariculture Cttee	Y Harache et G Boeuf	"Variations saisonnières de la tolérance à l'eau de mer de juvéniles de saumon coho ( <u>Oncorhynchus kisutch</u> )".
M:30	P Prouzet, Y Harache et B Jalabert	"Rapports des sexes dans les captures de saumon atlantique d'une rivière de Bretagne, France".
M:31	P Prouzet	"Compétition interspécifiques entre les juvéniles de truite fario ( <u>Salmo trutta</u> ) et de saumon atlantique ( <u>Salmo salar</u> ) dans un ruisseau pépinière".
M:32	T H Simpson and A F Youngson	"Changes in thyroidal status associated with the migrations of the Atlantic salmon ( <u>Salmo salar</u> L.)".
M:33	D W Hay, T H Simpson and A F Youngson	"Nutritional status and the downstream migration of juvenile Atlantic salmon <u>Salmo salar</u> L.".
M:34	R J G Buck and A F Youngson	"The downstream migration of precociously mature Atlantic salmon ( <u>Salmo salar</u> L.) parr in autumn".
M:35	Sv. Aa. Horsted and I Meldal	"Progress report on checking the lists of tagged salmon recaptured in Greenland waters".

Reference Papers to the Anadromous and Catadromous Fish Committee

C:5 Hydrography Cttee	G Wegner	"First hydrographic results from the Sargasso Sea Expedition with FRV 'Anton Dohrn', 19.3. - 9.5.1979".
E:22 Marine Environmental Quality Cttee		"Report on the Working Group on the Introduction of Non-Indigenous Marine Organisms, Conwy, 1-3 April 1979".

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\* For the relevant Committee only.



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Anadromous and Catadromous Fish Committee (ctd)

Reference papers

F:10  
Mariculture Cttee

G Quantz,  
W Nellen and  
J Lenz

"Tolerance limits of rainbow trout fry (S. gairdneri) to salinity. - Adaptation strategy, survival and growth".

F:31  
Mariculture Cttee

F M Utter,  
D Campton,  
S Grant,  
G Milner,  
J Seeb and  
L Wishard

"Population structures of indigenous salmonid species of the Pacific northwest".

F:45  
Mariculture Cttee

S R Zell

"Preservation of rainbow trout and Atlantic salmon gametes!"

N:9  
Marine Mammals  
Cttee

E C E Potter  
and A Swain

"Seal predation in the North-East England coastal salmon fishery".

N - MARINE MAMMALS COMMITTEE

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|--|---|---|
| N:1  |   | Administrative Report.  |
| N:2  | J C Rey and<br>O Cendrero                                 | "Les cétacés vus en mer et échoués sur les côtes espagnoles en 1977 et 1978".   |
| N:3  | S Söderberg   | "An ecosystem approach to grey seals and fisheries".  |
| N:4  |   | "List of publications on marine mammals, 1978".   |
| ✓ N:5  |   | "ICES <u>ad hoc</u> Working Group on Interaction between Grey Seal Populations and Fish Species, Charlottenlund, 14-18 May 1979". |
| N:6  | H E Drescher  | "Spatial distribution of the harbour seal in the Waddensea during the breeding season".   |
| N:7  | R Duguy   | "Rapport annuel sur les cétacés et pinnipèdes trouvés sur les côtes de France en 1978".   |
| N:8  | R Duguy<br>et A Collet                                    | "Note sur la reproduction de <u>Delphinus delphis</u> dans le NE Atlantique".   |
| N:9  | E C E Potter<br>and A Swain                               | "Seal predation in the North-East England coastal salmon fishery".  |
| Ref. Anacat.<br>Cttee                        |   |   |
| N:10   | D Prieur<br>et R Duguy                                    | "Nouvelles données sur le statut du phoque gris ( <u>Halichoerus grypus</u> ) en France".   |
| N:11   | S G Brown   | "Whale marking in the North Atlantic 1950-78".  |
| N:12   | A R Hiby<br>and J Harwood                                 | "The reliability of population estimates for British grey seals".   |
| N:13   | T S McCann,<br>W N Bonner,<br>J H Prime and<br>C Ricketts | "Age distribution and age at first pregnancy of South Georgia elephant seals".  |
| N:14   | J H Prime   | "Observations on the digestion of some gadoid fish otoliths by a young common seal".  |
| N:15   | General Secretary   | "UNEP plan of action for marine mammals".   |
| Ref. Marine<br>Enviromental<br>Quality Cttee |   |   |

Marine Mammals Committee (ctd)

- N:16 H Winn,  
T Thompson,  
W Cummings,  
H Jain, J Hudnall,  
H Hays and  
W Steiner "Song of the humpback whale - population comparisons".
- N:17 P J H Reijnders "Management and conservation of the harbour seal population (Phoca vitulina) in the international Wadden Sea area".
- N:18 P J H Reijnders "Organochlorine and heavy metal residues in harbour seals of Schleswig-Holstein plus Denmark, and the Netherlands in relation to the reproduction in both populations".

Ref. Marine Environmental Quality Cttee

Reference Papers to the Marine Mammals Committee

- E:39 Marine Environmental Quality Cttee J C Duinker and M Th. J Hillebrand "Mobilization of organochlorines from female lipid tissue and transplacental transfer to fetus in a harbour porpoise (Phocoena phocoena) in a contaminated area".
- E:40 Marine Environmental Quality Cttee J C Duinker, M Th. J Hillebrand and R F Nolting "Organochlorines and metals in harbour seals (Dutch Wadden Sea)".
- G:40 Demersal Fish Cttee P H Odense "Phocanema decipiens, the codworm problem and solutions".

POSTER SESSIONS AT THE 67th STATUTORY MEETING

- No.1 H Möller "Predation of Aurelia medusae on herring larvae in Kiel Bight".
- No.2 H Grave and H Möller "Estimation of algal beach cost at the western Baltic coast".
- No.3 H Möller and H H Janssen "Feeding of Anemonia sulcata".
- No.4 T Pommeranz, H Fischer, C Herrmann, H Kühn and P Ohm "A preliminary description of the multiple plankton sampler 'Messhai'".
- No.5 Withdrawn.
- No.6 H Möller "A summer survey of zooplankton in the North Sea and the Baltic".