

## 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.

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Gen - General Assembly Reports and Papers of General Interest

- Gen:1 "Report by Observers from collaborating Organisations" (with Addendum 1).
- Gen:2 Withdrawn.
- Gen:3 "Activities of the International Council for the Exploration of the Sea 1979/80".
- Gen:4 J M Bowers  
(Symp.) and P A Yeats "Transport of metals through the coastal zone".
- Gen:5 D F Jefferies,  
(Symp.) R J Pentreath and J W Talbot "Transport processes in the Irish Sea as indicated by the measurement of radionuclides released from Windscale".
- Gen:6 "Report of the ad hoc Working Group Meeting in Sea-Bed Charting".
- Gen:7 Compiled by  
ICES Hydrographer "Catalogue of regularly issued marine environmental data products for the ICES area. 1980 issue".
- Gen:8 R Wollast  
(Symp.) and J J Peters "Results on material transports in estuarine zones".
- Gen:9 "Advance Release of Tables 1-5 and K of Bulletin Statistique, Vol.64, 1979".
- Gen:10 "Elections of Committee Chairmen at the 68th Statutory Meeting". (E+F)
- Gen:11 "Notes on Recommendations and Reports". (E+F)

Del - DELEGATES MEETINGS

- Del:1\* "Audited accounts for 1978/79 with balance sheet as per 31/10 1979".
- Del:2\* "Preliminary report on the administration 1979/80".
- Del:3\* "Administrative reports of area- and subject committees 1980".
- Del:4\* "Estimated accounts for the financial year 1979/80".
- Del:5\* "Budget for the financial year 1980/81". (E+F)
- Del:6\* "Forecast budget for the financial year 1981/82". (E+F)
- Del:7\* "Proposals for amendment of the Rules of Procedure". (E+F)
- Del:8\* "Analysis of the Council's finances".
- Del:9\* "Elections to be undertaken by the Council at the 68th Statutory Meeting". (E+F)
- Del:10\* "Report on a 'Dialogue Meeting', 20-21 May 1980, held under the auspices of ICES".

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\* For Delegates only

(E+F) = in English and French





B - FISH CAPTURE COMMITTEE

- B:1 Administrative Report.
- B:2 "Report of the Working Group on Research on Engineering Aspects of Fishing Gear, Vessels and Equipment".
- B:3 G Thorsteinsson "Icelandic bottom trawl and Danish seine codend selection experiments on cod, haddock, redfish and plaice in 1972-76".
- B:4 G Thorsteinsson "On the influence of mesh size and hanging ratio on the escape of Pandalus borealis through the side panels of a 4-seam bottom trawl".  
Ref. Shellfish Cttee
- B:5 A Agústsson and E Ragnarsson "Fuel consumption of the Icelandic fishing fleet".
- B:6 G Kurc "Rapport général sur les réunions des Groupes de Travail du Comité pour la Capture des Animaux marins, Reykjavik, Islande du 5 au 9 mai 1980".  
"General Report - Fish Capture Committee Working Groups - Reykjavik (Iceland), 5 to 9 May 1980".
- B:7 V A Sakhno and M K Sadokhin "Investigation on bottom trawl selectivity in relation to the Barents Sea shrimp Pandalus borealis".  
Ref. Shellfish Cttee
- B:8 H Bohl "Selection of cod by bottom trawl codends in the central Baltic (German experiments 1978)".  
Ref. Baltic Fish Cttee
- B:9 J C Brabant, N Prado and E Dahm "Comparative fishing trials with big meshes and rope trawls".
- B:10 "First report of the Planning Group for the Symposium on Fisheries Acoustics".
- B:11 P Berthou et J-Y Le Gall "Sélectivité de la drague à praires (Venus verrucosa Mollusque Veneridae) en Manche occidentale".
- B:12 R Robles, A Fernández and F J Pereiro "Mesh selection of hake, blue whiting, horse mackerel, megrim, sole and Nephrops in nylon cod ends on Galicia and Portugal shelf".
- B:13 R Shotton "An analysis of the sensitivity of fish biomass estimates to the equivalent beam angle estimate".

Fish Capture Cttee (ctd)

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|---|--|---|
| B:14  | A Endal  | "Fuel saving potential in Norwegian fisheries".   |
| B:15  | T Digernes<br>and A Endal                      | "Fishing vessel speed and fuel economy".  |
| B:16  | D N MacLennan                                  | "Code of practice for the conduct of fishing gear experiments"  |
| B:17<br>Ref. Demersal and<br>Pelagic Fish<br>Cttees | E J Simmonds<br>and S T Forbes                 | "Some range dependent variations affecting acoustic fish stock estimations".  |
| B:18<br>Ref. Demersal and<br>Pelagic Fish<br>Cttees | J I Edwards                                    | "A barge for the transport and storage of live fish".   |
| B:19<br>Ref. Demersal and<br>Pelagic Fish<br>Cttees | J I Edwards                                    | "A preliminary investigation of the target strength of herring".  |
| B:20<br>Ref. Demersal and<br>Pelagic Fish<br>Cttees | S T Forbes,<br>E J Simmonds<br>and J I Edwards | "Progress in target strength measurements on live gadoids".   |
| B:21  | R De Clerck and<br>G Vanden Broucke            | "Preliminary results of selectivity experiments with beam trawls".  |
| B:22<br>Ref. Shellfish<br>Cttee                     | A Merrien                                      | "Utilisation de la télévision sous-marine pour l'inventaire et l'estimation directe des ressources en coquilles Saint-Jacques. Ex.: la Baie de Saint-Brieuc". |
| B:23  | J B Suomala Jr.                                | "Acoustic data in large-scale surveys".   |
| B:24  | J Prado et<br>M Meillat                        | "Efficacité relative de deux types de palangre en mer d'Irlande".   |
| B:25  | A K Beltestad                                  | "Recent experiments with net of hexagonal meshes in purse seines".  |
| B:26<br>Ref. Demersal<br>Fish Cttee                 | M Holm and<br>A K Beltestad                    | "Behaviour of saithe penned in different densities".  |
| B:27<br>Ref. Demersal<br>Fish Cttee                 | G Rauck  | "Mesh selectivity studies on board a low powered German sole beam trawler".   |
| B:28<br>Ref. Biol.<br>Oceanography<br>Cttee         | N Klages<br>and F Nast                         | "The selection of Antarctic krill by the 1216 <del>X</del> krill trawl".  |



Fish Capture Cttee (ctd)

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|---|------------------------------|---|
| B:29  | J C Brabant                  | "Les modalités du contrôle des maillages".  |
| B:30<br>Ref. Biol.<br>Oceanography<br>Cttee | M T Törmä                    | "Assessment of Antarctic krill catch rates using computer modelling".                             |
| B:31  | J W Watson<br>and W R Seidel | "Evaluation of techniques to decrease sea turtle mortalities in the southeastern shrimp fishery". |
| B:32  |                              | "Report of the Working Group on Reactions of Fish to Fishing Operations".                         |

Reference Papers to the Fish Capture Committee

- |                                |                                       |  |
|--------------------------------|---------------------------------------|--|
| G:28<br>Demersal Fish<br>Cttee | K Hoydal,<br>R Rørvik<br>and P Sparre | "A method for estimating the effective mesh sizes and the effects of changes in gear parameters".  |
| J:6<br>Baltic Fish<br>Cttee    | S E Shevtsov                          | "Selectivity of trawl cod-ends for flounder fishery in the Baltic Sea".  |
| K:23<br>Shellfish<br>Cttee     | R P Briggs and<br>P S Watson          | "A comparison of catch composition with different net mesh sizes using a parallel haul technique in the Northern Ireland <u>Nephrops</u> fishery". |

C - HYDROGRAPHY COMMITTEE

- C:1  
Ref. MEQC "Second report of the Marine Chemistry Working Group, Copenhagen, 12-14 February 1980".
- C:2  
Ref. Biol.  
Oceanography  
Cttee Ed.: A Svansson "Final report of the ICES/JONSDAP Working Group on JONSDAP '76".
- C:3  
Ref. Biol.  
Oceanography  
Cttee Ed.: G Pichot "Papers presented at the JONSDAP '76 Meeting, Liège, 29 April - 2 May 1980".
- C:4 "Report of the Working Group on Oceanic Hydrography".
- C:5 M Stein and  
H P Cornus "Hydrographic conditions off Spitsbergen in summer 1979".
- C:6 K P Koltermann "Low frequency variations of the mass-field in the northern North Sea during JONSDAP '76".
- C:7 A Bradley and  
P Tillier "A mesoscale Lagrangian measurement system".
- C:8 D J Ellett,  
D J Edelsten  
and D A Booth "Measurement of a continental slope current west of Scotland".
- C:9 D J Ellett "Long-term water-mass variations in the North-eastern Atlantic".
- C:10 T G Jensen and  
G Kullenberg "Some results on the energy transfer from the wind to the water during BOSEX 77".
- C:11  
Ref. MEQC E Buch and  
G Kullenberg "On the mixing conditions in the Baltic Transition Area".
- C:12 J Willebrand  
and J Meincke "Statistical model of meso-scale temperature and current fluctuations over the Iceland-Faroe Ridge Slope".
- C:13 E Mittelstaedt,  
Ch. Brockmann,  
I Hamann and  
G Weichart "Eastern boundary undercurrents - Suppliers of upwelling waters along the coasts".
- C:14 H Meier-Fritsch,  
E Mittelstaedt  
and Ch. Brockmann "Coastal upwelling off Northwest Africa - a three-dimensional numerical model".
- C:15 "Report of the Study Group on the Flushing Times of the North Sea - Meeting at Liège 27 April 1980".

Hydrography Cttee (ctd)

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|---|---|--|
| C:16  | U.S. NODC                                       | "ROSCOP summary of U.S. cruises in the ICES Area 1979".  |
| C:17<br>Ref. Biol.<br>Oceanography<br>Cttee | S B Tijssen and<br>A Eijgenraam                 | "Diurnal oxygen rhythm in the Southern Bight of the North Sea: net and gross primary production in April 1980 in a phaeocystis bloom". |
| C:18  | E Francke and<br>D Nehring                      | "The beginning of the renewal of the deep water in the central basins of the Baltic in 1980".  |
| C:19  | D Nehring                                       | "On the mean nitrogen phosphorus ratio in the mixed winter surface layer of the Baltic".   |
| C:20  | H U Lass,<br>W Fennel,<br>R Helm and<br>M Sturm | "Variations of the current system in the Equatorial Atlantic at 28°40'W during FATE in May-June 1979".                                 |
| C:21  | E Hagen<br>and W Zahn                           | "On the influence of large scale winds upon meso-scale upwelling dynamics off NW Africa".  |
| C:22  | J C J Nihoul,<br>Y Runfola <u>et al.</u>        | "The residual circulation of the North Sea".   |
| C:23  | F Dehairs                                       | "The biogeochemical cycle of barium in the open ocean: An evaluation".   |
| C:24  | H Dedeurwaerder,<br>M Dejonghe and<br>F Dehairs | "Strategy for the study of sea-air exchanges in the Belgian coastal zone".   |
| C:25  | H D Dooley and<br>E W Henderson                 | "Low frequency currents north of Rockall Bank".  |
| C:26  | Jens Smed                                       | "Introduction to the hydrography section of Annales Biologiques, Vol.36 (for 1979)".   |
| C:27  | O V Olsen and<br>J E Beyer                      | "Some aspects of modelling the water exchange in Kattegat".  |
| C:28  | S-A Malmberg                                    | "Hydrographical conditions in Icelandic waters in May-June 1979".  |
| C:29  | J M Suijlen                                     | "A dye experiment in the North Sea up to a very large scale".  |
| C:30  | W J Gould and<br>A N Cutler                     | "Long period variability of currents in the Rockall Trough".   |
| C:31  | P L Richardson                                  | "Gulf Stream system: the average temperature field at a depth of 450 m".   |

Hydrography Cttee (ctd)

- C:32 ICES  
Hydrographer "Activities of the ICES Service Hydrographique during 1979/80".
- C:33 C A Dorkins "Flow along the continental shelf south of Nantucket Island".
- C:34 B Butman et al. "The mean circulation on Georges Bank as measured by moored current meters".
- C:35 S R Ramp,  
Ref. Biol. R J Schlitz and  
Oceanography W Redwood Wright  
Cttee "Northeast Channel flow and the Georges Bank nutrient budget".
- C:36 S H Fonselius  
Ref. MEQC "On long time variations of phosphorus in Baltic surface water".
- C:37 L Otto and  
D Eisma "Questions regarding the assessment of the fluxes of suspended matter in the sea".
- C:38 ICES  
Hydrographer "Provisional programme of work for ICES Service Hydrographique 1980/81".
- C:39 M S McCartney  
and L D Talley "Warm water to cold water conversion in the northern North Atlantic and its relation to the general circulation".
- C:40 "Report of the Working Group on Aerospace Remote Sensing".
- C:41 ICES  
Hydrographer "Catalogue of computer programmes in physical and chemical oceanography".
- C:42 "Report of the Working Group on Shelf Seas Hydrography" (available only during Statutory Meeting).
- C:43 "Report of the Working Group on Marine Data Management" (available only during the Statutory Meeting).
- C:44 "Report of the Working Group on the Coordination of Hydrographic Investigations in the Baltic" (available only during Statutory Meeting).

Reference Papers to the Hydrography Committee

- D:4 D L Cram and  
Statistics M Mall  
Cttee "Some experience with an experimental fisheries-oriented database".

Hydrography Cttee (ctd)

Reference papers

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|--------------------------------|-------------------------------|---|
| D:8<br>Statistics<br>Cttee     | E Collins                     | "Environmental impact/assessment studies - the problems of handling interdisciplinary data".  |
| D:10<br>Statistics<br>Cttee    | J A Pope                      | "Some statistical techniques for looking at large data sets".   |
| D:12<br>Statistics<br>Cttee    | P Geerders                    | "Introductory paper to the Joint Session of the Hydrography and Statistics Committees".   |
| D:13<br>Statistics<br>Cttee    | M T Jones                     | "The MIAS Oceanographic Data Base - the development of a general purpose data structure for serial data".   |
| D:14<br>Statistics<br>Cttee    | D P Kohnke                    | "Techniques for reducing large volumes of oceanographic data".  |
| D:16<br>Statistics<br>Cttee    | E G Heyerdahl<br>and R Payne  | "A data management system for the northeast monitoring program, the requirements for a multi-discipline, multi-agency project".   |
| D:17<br>Statistics<br>Cttee    | J Smed                        | "Distribution of oceanographic information to the ICES community".  |
| D:20<br>Statistics<br>Cttee    | O Feddersen                   | "'Dana's' computer facilities. Dedicated system for on-board laboratory automation".  |
| E:3<br>MEQC                    |                               | "Report of the Coordinating Group on Sediments and Pollution, Texel, Netherlands, 25-26 February 1980".   |
| E:18<br>MEQC                   | K Grasshoff and<br>H P Hansen | "Small-scale variability of chemical parameters in the Baltic".   |
| E:19<br>MEQC                   | J M Bowers <u>et al.</u>      | "Design and logistical options for the conduct of the ICES Fifth Round Intercalibration for Trace Metals in Seawater".  |
| E:34<br>MEQC                   | J C Duinker                   | "Processes affecting the behaviour of contaminants (metals and organo-chlorines) during estuarine mixing and in coastal areas, with particular reference to the southern North Sea" |
| G:21<br>Demersal Fish<br>Cttee | A A Glukhov <u>et al.</u>     | "Some results of the Soviet investigations of deep-water fish supply in the Faroe economic zone in 1979".   |
| H:52<br>Pelagic Fish<br>Cttee  |                               | "Report on joint Soviet-Icelandic investigations on hydrobiological conditions in the Norwegian Sea and Icelandic waters in May-June 1980".   |

Hydrography Cttee (ctd)

Reference papers

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|------------------------------------|------------------------------------|--|
| H:58<br>Pelagic Fish<br>Cttee      | Jens Smed                          | "Bottom temperature and salinity<br>in the North Sea during the ICES<br>Young Fish Survey January to<br>March 1980".   |
| L:3<br>Biol.Oceanography<br>Cttee  | K-H Kock,<br>F Nast and<br>M Stein | "Some interactions between<br>hydrography, krill and fish near<br>Elephant Island in 1977/78".   |
| L:12<br>Biol.Oceanography<br>Cttee | V V Tereshchenko                   | "The effect of hydrometeorological<br>factors on the transfer of eggs and<br>larvae of the northeastern Arctic<br>cod into the Bear Island -<br>Spitsbergen area". |
| L:70<br>Biol.Oceanography<br>Cttee | R H Douglass                       | "Environmental issues arising from<br>large-scale deployment of OTEC<br>systems - an engineer's perspective".  |

D - STATISTICS COMMITTEE

- D:1 Administrative Report.
- D:2 J-Y Le Gall,  
A Maucorps et  
C de Verdelhan "Description du système statistique  
des pêches maritimes en France (1980)".
- D:3 "Report of the Statistics Committee  
Liaison Working Group, Copenhagen,  
19-20 May 1980".
- D:4 D L Cram and  
Ref. Hydrography M Mall "Some experience with an experimental  
Cttee fisheries-oriented data-base".
- D:5 K Hoydal "Fishing operations across the eastern  
boundary of ICES Subdivision V<sub>bl</sub>".
- D:6 Ref. Demersal G Gaschütz,  
and Pelagic Fish D Pauly and  
Cttees and N David "A versatile BASIC Program for fitting  
Shellfish Cttee length-growth data".
- D:7 D Pauly  
Ref. Demersal and N David "A BASIC Program for the objective  
and Pelagic Fish extraction of growth parameters from  
Cttees and length-frequency data".  
Shellfish Cttee
- D:8 E Collins "Environmental impact/assessment  
Ref. Hydrography studies - the problem of handling  
Cttee interdisciplinary data".
- D:9 J G Shepherd  
Ref. Demersal Fish and J G Pope "A preliminary analysis of species  
Cttee directivity of effort in UK fisheries".
- D:10 J A Pope "Some statistical techniques for  
Ref. Hydrography looking at large data sets".  
Cttee
- D:11 "Report of the Working Group for the  
Eventual Establishment of an ICES ADP  
System for Fishery Statistics,  
Copenhagen, 21-23 May 1980".
- D:12 P Geerders "Introductory paper to the Joint  
Ref. Hydrography Session of the Hydrography and  
Cttee Statistics Committees".
- D:13 M T Jones "The MIAS Oceanographic Data Base -  
Ref. Hydrography the development of a general purpose  
Cttee data structure for serial data".
- D:14 D P Kohnke "Techniques for reducing large volumes  
Ref. Hydrography of oceanographic data".  
Cttee

Statistics Cttee (ctd)

D:15	ICES Statistician	"Progress Report".
D:16 Ref. Hydrography Cttee	E G Heyerdahl and R Payne	"A data management system for the northeast monitoring program, the requirements for a multi-discipline, multi-agency project".
D:17 Ref. Hydrography Cttee	Jens Smed	"Distribution of oceanographic information to the ICES community".
D:18 Ref. Mariculture Cttee	Chairman of Statistics Cttee	"Collection of statistics on aqua- culture".
D:19*	FAO/CWP Secretary	"Coordinating Working Party on Atlantic Fishery Statistics, 10th Session, Madrid, 22-29 July 1980".
D:20 Ref. Hydrography Cttee	O Feddersen	"'Dana's' computer facilities. Dedicated system for on-board laboratory automation".

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\* For the relevant Committee only.



E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:1 Administrative Report.
- E:2 H H White,  
Th. P O'Connor  
and P Kilho  
Park "Biological effects of the marine  
dumping of industrial wastes at U.S.  
deep ocean dumpsites".
- E:3 Ref. Hydrography  
Cttee "Report of the Coordinating Group on  
Sediments and Pollution, Texel,  
Netherlands, 25-26 February 1980".
- E:4 "Report of the Sixth Meeting of the  
Working Group on Marine Pollution  
Baseline and Monitoring Studies in  
the North Atlantic, 18-20 February 1980,  
Copenhagen".
- E:5 "Report of the ICES/SCOR Working Group  
on the Study of Pollution of the  
Baltic, Copenhagen, 20-22 February 1980".
- E:6 "Report of the First Joint Session  
between the Working Group on Marine  
Pollution Baseline and Monitoring  
Studies in the North Atlantic and the  
ICES/SCOR Working Group on the Study of  
Pollution in the Baltic, 20 February  
1980, Copenhagen".
- E:7 G Kullenberg "Observer's report on the Xth Session  
of the Joint Group of Experts on the  
Scientific Aspects of Marine Pollution  
(GESAMP)".
- E:8 J F Uthe  
and C J Musial "Report of the Fifth ICES Intercalibration  
Study of PCBs in Biological Material".
- E:9 J F Uthe,  
C L Chow and  
D P Scott "Report on the use of statistics in the  
study of pollution levels and trends  
in pollution levels in marine biota".
- E:10 G R Sirota  
and J F Uthe "Studies on polycyclic aromatic  
hydrocarbons in Western Atlantic  
shellfish".
- E:11 C J Musial  
and J F Uthe "Studies on phthalate esters in Western  
Atlantic finfish".
- E:12 R Schneider "Significance of equilibrium partitioning  
and lipid composition in PCB accumulation  
by fish".
- E:13 S J de Groot "Preliminary bibliography of literature  
dealing with the effects of marine sand  
and gravel extraction on fisheries".

Marine Environmental Quality Cttee (ctd)

- E:14 L G M Th. Tuinstra, "Calculation of the PCB content in  
A H Roos and fish samples".  
W A Traag
- E:15 A J Murray and "Results of a mussel watch programme in  
R J Law England and Wales in 1977 and 1978".
- E:16 R J Law and "Summary of results of the first ICES  
J E Portmann intercomparison exercise on petroleum  
hydrocarbons".
- E:17 "Papers of interest to the Marine  
Environmental Quality Committee".
- E:18 K Grasshoff "Small-scale variability of chemical  
Ref. Hydrography and H P Hansen parameters in the Baltic".  
Cttee
- E:19 J M Bowers et al. "Design and logistical options for  
Ref. Hydrography the conduct of the ICES Fifth Round  
Cttee Intercalibration for Trace Metals in  
Seawater".
- E:20 S Ray and "Bioavailability of chlorinated hydro-  
D W McLeese carbons and heavy metals in sediments  
to marine invertebrates".
- E:21 V Zitko "PCBs and other organochlorine  
compounds in sharks and tunas".
- E:22 C R Allchin "The determination of polychlorinated  
biphenyl (PCB) residues in environ-  
mental samples using glass capillary  
gas chromatography (GC)<sup>2</sup>".
- E:23 N P Morozov "Complex approach to the study of sea  
and A M Stepanov coastal ecosystems in connection with  
their pollution".
- E:24 R F Vaccaro, "The oceans and U.S. sewage sludge  
J M Capuzzo and disposal strategy".  
N H Marcus
- E:25 B Watermann and "Preliminary report on histology and  
V Dethlefsen incidence of pseudobranch tumors in  
Atlantic cod (Gadus morhua) in the  
German Bight".
- E:26 R J Law "Hydrocarbon concentrations in water  
and sediments from the Irish Sea,  
Liverpool Bay and the English Channel".
- E:27 R A A Blackmann "The hydrocarbon content of 'water-  
and R J Law soluble' fractions of crude oil".
- E:28 M G Norton "Monitoring of areas receiving dumped  
wastes around England and Wales".

Marine Environmental Quality Cttee (ctd)

- E:29 D A Lawson and D S Kirkwood "An automated method for the determination of total mercury in environmental samples".
- E:30 P Vuorinen and M-B Axell "Effects of water soluble fractions of crude oil on herring eggs and pike fry".
- E:31 "Introduction to biological effects of oil pollution in the marine environment. A Bibliography".
- E:32 P Johansen, F O Kapel and I Kraul "Heavy metals and organochlorines in marine mammals from Greenland".  
Ref. Marine Mammals Cttee
- E:33 "Report of the ICES Working Group 'Pathology and Diseases in Marine Organisms', Copenhagen, 6-9 May 1980".  
Ref. Mariculture Cttee
- "Rapport du Groupe de Travail du CIEM 'Pathologie et Maladies des Organismes marins', Copenhague, 6-9 mai 1980".
- E:34 J C Duinker "Processes affecting the behaviour of contaminants (metals and organochlorines) during estuarine mixing and in coastal areas, with particular reference to the southern North Sea".  
Ref. Hydrography Cttee
- E:35 J C Duinker, M T J Hillebrand, K H Palmork and S Wilhelmsen "A discussion on the value of the estimation of polychlorinated biphenyls (PCBs) in environmental samples from packed column gas-liquid chromatographic data".
- E:36 R Kaas "L'échouement de l'Amoco Cadiz; conséquences sur les peuplements algaux des côtes bretonnes".
- E:37 G Decadt, M Bogaert, L Goeyens and W Baeyens "Determinations of mercury in various compartments of a coastal marine ecosystem".
- E:38 G Gillain, C Duyckaerts and A Distèche "Trace metals (Zn, Cd, Pb, Cu, Sb and Bi) levels (ionic forms and dissolved organic complexes) in the Southern Bight (Belgian coast). Technique to avoid contamination during sampling and filtration and to improve representativity".
- E:39 F Noël-Lambot, J M Bouquegneau and A Distèche "Some mechanisms promoting or limiting bioaccumulation in marine organisms".
- E:40 A V Holden "Report on the Fourth ICES Organochlorine Intercalibration Exercise".

Marine Environmental Quality Cttee (ctd)

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| E:41<br>Ref. Marine Mammals<br>Cttee        | J McKie,<br>I M Davies<br>and G Topping                       | "Heavy metals in grey seals ( <u>Halichoerus grypus</u> ) from the east coast of Scotland".                         |
| E:42<br>Ref. Marine Mammals<br>Cttee        | C R Falconer,<br>I M Davies<br>and G Topping                  | "Selected trace metals in porpoises ( <u>Phocoena phocoena</u> ) from the northeast coast of Scotland".             |
| E:43  | I M Davies  | "The role of suspended solids in the distribution and speciation of mercury in the Forth estuary".                  |
| E:44  | G Topping   | "A summary report on the 6th ICES Trace Metal Intercomparison Exercise for Cadmium and Lead in Biological Tissue".  |
| E:45  | A V Holden<br>and G Topping                                   | "The future of ICES analytical intercomparison exercises".  |
| E:46  | A D F Johnstone<br>and A D Hawkins                            | "Changes in the respiration and blood circulation of cod, <u>Gadus morhua</u> , induced by exposure to pollutants". |
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- H:53 "Rapport du Groupe de Travail pour l'Evaluation des Stocks de Sardines dans les Divisions VIIIc and IXa, Vigo, 30 juin - 4 juillet 1980".
- H:54 "Final report on the acoustic survey in Skagerrak-Kattegat 3-14 September 1979".
- H:55 S Holzlöhner "Diurnal food intake variations in *Sardina pilchardus* Walb.".
- H:56 H Schultz,  
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- H:58  
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- H:59 S A Berkeley and E D Houde "Swordfish, *Xiphias gladius*, dynamics in the Strait of Florida".
- H:60 P O Hjertenes "The spurdogs in the North Sea area; the Norwegian fishery and observations on changes in migration pattern".
- H:61 T Monstad and L Midttun "Norwegian blue whiting investigations in April/May 1980".
- H:62 I Røttingen "Indication of high natural mortality for juvenile herring from acoustic and tagging data".

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H:63	H Vilhjálms- son, P Reynisson, J Hamre and I Røttingen	"Acoustic abundance estimates of the Icelandic stock of capelin, October 1978 - January 1980".
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H:65	R G Lough, M R Pennington, G R Bolz and A S Rosenberg	"A growth model for larval sea herring ( <u>Clupea harengus</u> L.) in the Georges Bank-Gulf of Maine area based on otolith growth increments".
H:66	R L Ratke and J M Dean	"The morphology of the otoliths of billfish (Istiophoridae) and their application to fisheries biology".

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B:17 Fish Capture Cttee	E J Simmonds, and S T Forbes	"Some range dependent variations affecting acoustic fish stock estimations".
B:18 Fish Capture Cttee	J I Edwards	"A barge for the transport and storage of live fish".
B:19 Fish Capture Cttee	J I Edwards	"A preliminary investigation of the target strength of herring".
B:20 Fish Capture Cttee	S T Forbes, E J Simmonds and J I Edwards	"Progress in target strength measure- ments on live gadoids".
D:6 Statistics Cttee	G Gaschütz, D Pauly and N David	"A versatile BASIC Program for fitting weight and seasonally oscillating length growth data".
D:7 Statistics Cttee	D Pauly and N David	"A BASIC Program for the objective extraction of growth parameters from length-frequency data".
G:2 Demersal Fish Cttee		"Report of the <u>ad hoc</u> Working Group on Multispecies Assessment Model Testing, Copenhagen, 3-7 March 1980".
G:3 Demersal Fish Cttee		"Report of the Working Group on Division IIIa Stocks, Charlottenlund, 24-28 March 1980".

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| G:23<br>Demersal Fish<br>Cttee     | L D Panasenko<br>and M S Sõboleva      | "Food interrelations between the Barents Sea capelin and Polar cod".  |
| G:27<br>Demersal Fish<br>Cttee     | K Hoydal                               | "Large scale changes in fisheries and their effect on stock assessments".   |
| G:28<br>Demersal Fish<br>Cttee     | K Hoydal,<br>J Rørvik and<br>P Sparre  | "A method for estimating the effective mesh sizes and the effects of changes in gear parameters".   |
| G:29<br>Demersal Fish<br>Cttee     |  | "Report of the International O-Group Survey in Faroese waters 1980".  |
| G:39<br>Demersal Fish<br>Cttee     | H Lassen                               | "On the quality of the TACs recommended through ICES".  |
| G:40<br>Demersal Fish<br>Cttee     | P Sparre                               | "A goal function of fisheries (legion analysis)".   |
| L:26<br>Biol.Oceanography<br>Cttee | R Jones and<br>E W Henderson           | "Further observations on energy flow through the marine food chain".  |
| L:32<br>Biol.Oceanography<br>Cttee | H Möller                               | "Scyphomedusae as predators and food competitors of larval fish".   |
| L:35<br>Biol.Oceanography<br>Cttee | C Chevalier                            | "Contribution à l'étude de la croissance des juveniles de <u>Dicentrarchus labrax</u> L. en Bretagne nord".   |
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J - BALTIC FISH COMMITTEE

- J:1 Administrative Report.
- J:2 "Publications of interest to the Baltic Fish Committee".
- J:3 "Report of the Working Group on Assessment of Demersal Stocks in the Baltic, Copenhagen, 5-10 May 1980".
- J:4 "Report of the Working Group on Assessment of Pelagic Stocks in the Baltic, Copenhagen, 5-13 May 1980".
- J:5 M N Lishev and D V Uzars "Daily ration and food consumption in cod from eastern Baltic".  
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- J:6 S E Shevtsov "Selectivity of trawl cod-ends for flounder fishery in the Baltic Sea".  
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- J:7 R Hudd "Feeding of Baltic herring larvae in the Gulf of Finland".
- J:8 V Sjöblom, E Aro and P Suuronen "Migrations, mortality and growth of cod in the northern Baltic Sea".
- J:9 R Parmanne and V Sjöblom "Abundance, mortality and production of spring-spawning Baltic herring larvae in the seas around Finland in 1979".
- J:10 R Parmanne and V Sjöblom "Abundance of sprat eggs and larvae in the northern Baltic in 1979".
- J:11 H Lassen and B Sjöstrand "Estimation of mortality components for some Baltic herring stocks in 1979".
- J:12 O Bagge and E Steffensen "Growth pattern in cod otoliths as indicator for mixing of stocks".  
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- J:13 O Bagge "Danish discards of cod in the Baltic".
- J:14 G Aneer and S Nellbring "An investigation of Baltic herring (Clupea harengus membras L.) spawning grounds in the Askö-Landsort area, northern Baltic proper".
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| J:16 | U Falk,<br>D Kästner,<br>O Hagström,<br>N Håkansson<br>and A Lindquist | "Hydroacoustic observations in the Baltic proper in October 1979. Preliminary results".  |
| J:17 | A Lindquist  | "The spawning stock of sprat in the Baltic".   |
| J:18 | O Rechlin  | "Dependence of yield per recruit and spawning stock per recruit curves of Baltic Sea sprat stocks on age of recruitment and on variations in natural mortality". |
| J:19 | M Berner and<br>N Schulz   | "An estimation of cod discards on the basis of youngfish investigations by a herring bottom trawl in the western and southern Baltic".                           |
| J:20 | B Vaske and<br>N Schulz  | "Application of some statistical methods to results of groundfish surveys in the Mecklenburg Bay and in the Arkona Basin in November 1978 and 1979".             |

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| B:8<br>Fish Capture<br>Cttee   | H Bohl                    | "Selection of cod by bottom trawl cod-ends in the central Baltic (German experiments 1978)". |
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| G:40<br>Demersal<br>Fish Cttee | P Sparre                  | "A goal function of fisheries (legion analysis)".  |
| H:22<br>Pelagic<br>Fish Cttee  | E Ojaveer<br>and L Rannak | "Dynamics of some parameters of herring populations in the northeastern Baltic in 1948-79".  |

K - SHELLFISH COMMITTEE

- K:1 Administrative Report (+ Addendum 1).
- K:2 "Report of the Nephrops Working Group, Aberdeen, 15-18 January 1980".
- K:3 "Bibliography of publications relative to the interests of the ICES Shellfish Committee 1979" (+ Addendum 1).
- K:4 P Berthou,  
J-Y Le Gall,  
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- K:5 P Berthou,  
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- Ref. Mariculture  
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- K:10 E Edwards and  
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- K:11 J M DesLous Paoli  
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- K:13 A Franklin  
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- K:14 D Key and P E Davidson "Preliminary results of a study of the stocks of clams (Mercenaria mercenaria) in Southampton water, England".
- K:15 I B Berenboim, A Yu. Lysy and L I Serebrov "On distribution, stock state and regulation measures of shrimp (Pandalus borealis Krøyer) fishery in the Barents Sea".
- K:16 F Sarda "Age, croissance et fréquence de mue chez Nephrops norvegicus (L.) dans la Mer Méditerranée (NE de l'Espagne)".
- K:17 J M Alonso-Allende "Nephrops norvegicus distribution off the Galician coast (NW of Spain)".
- K:18 G Garrod and D Harding "Preliminary estimates of distribution, abundance and mortality of larvae and the size of the Nephrops norvegicus (L.) spawning stock from larval surveys made off the north-east coast of England in 1976".
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- K:21 J Martin "Abondance des larves d'étrille (Macropipus puber L.) d'araignée (Maia squinado Herbst) et de torteau (Cancer pagurus L.) sur la côte ouest du Cotentin (Manche) de 1977 à 1979".
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- K:24 F M Serchuk and R J Smolowitz "Size selection of sea scallops by an offshore scallop survey dredge".
- K:25 C J Chapman and K A Ballantyne "Some observations on the fecundity of Norway lobsters in Scottish waters".
- K:26 J W Ropes and S A Murawski "Size and age at sexual maturity of ocean quahogs (Arctica islandica) from a deep ocean site".

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- K:27 J Mason,  
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- K:28 J A Pope  
and J Mason "The fitting of growth curves for Pecten maximus L."
- K:29 R G J Shelton  
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- K:30 J P Berthome et  
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A Langlade "Evaluation du recrutement d'huîtres plates (Ostrea edulis) collectées sur tuiles dans le quartier d'Auray (Bretagne) en 1979".
- K:32 F Redant "Population dynamics of brown shrimp (Crangon crangon) in the Belgian coastal waters. 1. Consumption-production model".  
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- K:33 F Redant "Population dynamics of brown shrimp (Crangon crangon) in the Belgian coastal waters. 2. Predation mortality".  
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- K:35 J Ariz and  
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- K:36 Y Morizur,  
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- K:37 G Conan "Preliminary estimates of mortality parameters for Norway lobster in Bay of Biscay and in the Celtic Sea".
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| B:4<br>Fish Capture<br>Cttee       | G Thorsteinsson                               | "On the influence of mesh size and hanging ratio on the escape of <u>Pandalus borealis</u> through the side panels of a 4-seam bottom trawl".  |
| B:7<br>Fish Capture<br>Cttee       | V A Sakhno and<br>M K Sadokhin                | "Investigation on bottom trawl selectivity in relation to the Barents Sea shrimp ( <u>Pandalus borealis</u> )".  |
| B:22<br>Fish Capture<br>Cttee      | A Merrien                                     | "Utilisation de la télévision sous-marine pour l'inventaire et l'estimation directe des ressources en coquilles Saint-Jacques. Ex.: la Baie de Saint-Brieuc".                        |
| D:6<br>Statistics Cttee            | G Gaschütz,<br>D Pauly and<br>N David         | "A versatile BASIC Program for fitting weight, and seasonally oscillating length growth data".   |
| D:7<br>Statistics Cttee            | D Pauly<br>and N David                        | "A BASIC Program for the objective extraction of growth parameters from length-frequency data".  |
| E:60<br>MEQC                       |   | "Report of the ICES Working Group on the Introduction of Non-Indigenous Marine Organisms" (with a Supplement).   |
| F:7<br>Mariculture<br>Cttee        | P J Dare                                      | "The susceptibility of seed oysters of <u>Ostrea edulis</u> L. and <u>Crassostrea gigas</u> Thunberg to natural infestation by the copepod <u>Mytilicola intestinalis</u> (Steuer)". |
| G:37<br>Demersal Fish<br>Cttee     | F G Howard                                    | "Some observations on the food of cod <u>Gadus morhua</u> (L.) on the Fladen and in the Farn Deep".  |
| G:43<br>Demersal Fish<br>Cttee     | R De Clerck<br>and G Sterk                    | "Observations on the predation of cod and whiting on <u>Nephrops norvegicus</u> (L.) in the Outer Silver Pit during 1979".   |
| H:43<br>Pelagic Fish<br>Cttee      | R E Ulanowicz,<br>M L Ali and<br>W A Richkus  | "Assessing harvests of pelagic and invertebrate fisheries of Northern Chesapeake Bay in terms of environmental variations".  |
| L:6<br>Biol.Oceanography<br>Cttee  | A Szaniawska                                  | "Elements of ecological energetics of <u>Crangon crangon</u> (L., 1758) (Crustacea, Decapoda) in Gdańsk Bay".  |
| L:14<br>Biol.Oceanography<br>Cttee | J H Nichols,<br>D B Bennett<br>and A Lawrence | "A study of some problems related to quantitative sampling of lobster larvae ( <u>Homarus gammarus</u> L.)".   |

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L:44  
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M Heral,  
D Razet,  
S Maestrini  
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énergétique pour la nutrition de  
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L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

- L:1 Administrative Report.
- L:2 "Publications related to the interests of the Biological Oceanography Committee".
- L:3 K H Koch,  
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- L:4 M Wołowicz "Characteristics of the Cardium glaucum (Bivalvia) population in Gdańsk Bay (growth rate, age, mortality)".
- L:5 J M Węszawski "Mass species of Amphipoda from Hornsund fjord (Spitsbergen)".
- L:6 A Szaniawska "Elements of ecological energetics of Crangon crangon (L., 1758) (Crustacea, decapoda) in Gdańsk Bay".  
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- L:7 L M Lubian and R Establier "Taxonomic position of a nannoplanktonic alga on the basis of its pigment composition".
- L:8 N A Zharov et al. "Application of a tracer model in the study on planktonic alga transport off the northwest African coast".
- L:9 V M Ryzhov "Features of phytoplankton development in the Murmansk current (Barents Sea)".
- L:10 S S Drobysheva "Long-term fluctuations of abundance indices of the Barents Sea euphausiids (Crustacea: Euphausiacea) according to the data from the autumn-winter survey".
- L:11 E M Kostrichkina and A K Yurkovskis "On the coherence of the dynamics in zooplankton abundance of the Baltic proper with phosphorus and Kattegat waters advection".
- L:12 V V Tereshchenko "The effect of hydrometeorological factors on the transfer of eggs and larvae of the northeastern Arctic cod into the Bear Island-Spitsbergen area".  
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- L:13 J Chojnacki and I Drzycimski "Mesozooplankton of the Pomeranian Bay in 1977-1979".
- L:14 J H Nichols, D B Bennett and A Lawrence "A study of some problems relating to quantitative sampling of lobster larvae (Homarus gammarus L.)".  
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| L:15<br>Ref. MEQC                                | A W White   | "Fate and consequences of dino-<br>flagellate toxins in marine food chains".   |
| L:16   | M Alcaraz   | "Niche width and overlap of two<br>coexisting species of <u>Acartia</u> (Copepoda:<br>Calanoida) in the ria of Vigo (NW of<br>Spain)".   |
| L:17   | J R Strickler,<br>G A Paffenhöfer<br>and M Alcaraz        | "Filter feeding in copepods: observations<br>by means of high speed motion pictures".<br>(Film to be shown)  |
| L:18   | W Fennel  | "Critical scales for phytoplankton<br>patchiness and advection diffusion<br>models".   |
| L:19   | L Postel  | "The pelagic cross-shelf and alongshore<br>boundaries of the NW-African upwelling<br>region and their annual variability in<br>terms of zooplankton biomass".  |
| L:20   | L Goeyens,<br>A Vandenhoudt,<br>G Decadt and<br>W Baeyens | "The rate of utilisation of nitrate-<br>nitrite by natural phytoplankton<br>populations in a reactor".   |
| L:21   | J H Hecq,<br>A Gaspar and<br>H Picard                     | "Spatial pattern and biochemical content<br>of North Sea zooplankton (Belgian<br>coast) (1979-80)".  |
| L:22   | C Lancelot,<br>M H Daro <u>et al.</u>                     | "Ecometabolism of the coastal area of<br>the Southern Bight of the North Sea".   |
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| L:25   | S J Hay and<br>J R G Hislop                               | "The distribution and abundance of<br>scyphomedusae in the North Sea during<br>the summer of 1979".  |
| L:26<br>Ref. Demersal and<br>Pelagic Fish Cttees | R Jones and<br>E W Henderson                              | "Further observations on energy flow<br>through the marine food chain".  |
| L:27   | E Bang Christensen,<br>V Christensen and<br>J E Beyer     | "Size selective predation of larval fish".   |
| L:28   | J E Beyer and<br>P Munk Christensen                       | "Food consumption by larval fish".   |

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- L:29 H Hovgaard Hansen and P Munk Christensen "Experimental determination of size specific growth rate of larval turbot".
- L:30 E Kirkegaard and H Lassen "Biomass estimates of Pseudocalanus C VI in the North Sea 1958-75".
- L:31 Chr. Ursin, A-M Bresta and Vagn Kr. Hansen "On the application of the liquid scintillation counting of <sup>14</sup>C-labelled phytoplankton".
- L:32 H Möller "Scyphomedusae as predators and food competitors of larval fish".  
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- L:33 D J Wildish "Measurement of secondary production in marine amphipods by modified Hynes method".
- L:34 Withdrawn.
- L:35 C Chevalier "Contribution à l'étude de la croissance des juveniles de Dicentrarchus labrax en Bretagne nord".  
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- L:36 J E Bodammer "Ultrastructural studies on the developing cranial cartilage in several species of larval fish".
- L:37 P Schlittenhardt "Report on comparison of chlorophyll a analysis in some laboratories".
- L:38 J H Fraser "Plankton Sheets - Editor's Report 1979-80".
- L:39 R P Harris, et al. "Trophic interactions and production processes in natural zooplankton communities in enclosed water columns. I. Results of CEPEX Foodweb I".
- L:40 M R Reeve, G D Grice and R P Harris "Trophic interactions and production processes in natural zooplankton communities in enclosed water columns. II. An assessment of the implications of the CEPEX approach for future developments in plankton ecology".
- L:41 - L:43 Withdrawn.
- L:44 M Heral, D Razet, S Maestrini et J Garnier "Composition de la matière organique particulaire dans les eaux du bassin de Marennes-Oléron. Apport énergétique pour la nutrition de l'huître".  
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- L:45 Y Zanette "Intervention de quelques facteurs dans l'évolution de la biomasse des claires de Marennes-Oléron".

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- L:46 M Heral et J Prou "Etude de la biomasse bactérienne dans le bassin de Marennes-Oléron".
- L:47 Z Witek, M Pastuszak and A Grelowski "The phenomena of local phytoplankton decline during the vegetative period in western Antarctic".
- L:48 Z Witek, A Koronkiewicz and J G Soszka "Some aspects of early life history of krill Euphausia superba Dana".
- L:49 J Kalinowski and Z Witek "Diurnal vertical distribution and migration of krill swarms in the western Antarctic". (REVISED)
- L:50 General Secretary "Introduction to the Plankton Chapter in Volume 36 of Annales Biologiques".
- L:51 E Poggensee and J Lenz "On the population dynamics of two brackish-water cladocera Podon leuckarti and Evadne nordmanni in Kiel fjord".
- L:52 R Länge and J Lenz "The population density of benthic diatoms on tidal flats in the German Wadden Sea".
- L:53 POSTER H Grave and H Möller "Algal beach cast in Kiel Bight".
- L:54 POSTER G Alberti and U Kils "The filtering-basket of Euphausia superba".
- L:55 POSTER H Möller and T Pommeranz "Observations on the vertical distribution of plankton and hyperbenthos organisms in the Kiel Bight".
- L:56 D Stoecker, R R L Guillard and R M Kavee "Selective predation by Favella ehrenbergii (Ciliata, Tintinnia) on and among dinoflagellates".
- L:57 "Report of the Working Group on Primary Production Methodology, Texel, 23-25 June 1980".
- L:58 Ref. Shellfish Cttee POSTER S D Sulkin, W van Heukelem and P Kelly "Near-shore larval assemblages as a source of recruitment for estuarine and deep-sea invertebrates".
- L:59 Ref. Demersal Fish Cttee E Durbin and A Durbin "Some factors affecting gastric evacuation in fishes".
- L:60 Ref. Demersal Fish Cttee E Durbin, A Durbin, R Langton, R E Bowman and M Grosslein "Analysis of stomach contents of Atlantic cod (Gadus morhua) and silver hake (Merluccius bilinearis) for the estimation of daily rations". (REVISED)



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K:32  
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