

CONSEIL INTERNATIONAL
POUR L'EXPLORATION DE LA MER

MH/MH

Votre réf.:

Au sujet:

Notre réf.: D1.a/80

Date: November 1980

From 1 January 1980

New Address: Palægade 2-4
DK-1261 Copenhagen K, Denmark

New Telephone Nos.:
(0)1 15 4225
(0)1 15 7092 (Secrétaire Général)

Dear Sirs,

Please find enclosed the documents requested - to the extent available - of 1980 Council Meeting papers.

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

However, we wish to draw your attention to the following papers which were withdrawn:

Statistics Cttee:	D:8
MEQC:	E:2, E:62 and E:66
Mariculture Cttee:	F:11, F:13, F:14, Note that F:19 was a Poster and no paper exists; F:24 and F:25
Demersal Fish Cttee:	G:16, G:17, G:20 and G:41
Pelagic Fish Cttee:	H:27
Shellfish Cttee:	K:19
Biol.Oceanogr. Cttee:	L:34, L:41, L:42 and L:43; Note that L:53, L:54 and L:55 were Posters
Anacat Cttee:	M:31

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

C:47, D:19, M:26

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 "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- Gen:2 Withdrawn.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 Bewers and P A Yeats "Transport of metals through the coastal zone".
(Symp.)
- Gen:5 D F Jefferies, 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 and J J Peters "Results on material transports in estuarine zones".
(Symp.)
- 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".

* For Delegates only

(E+F) = in English and French

Fi - FINANCE COMMITTEE

- Fi:1* Agenda for the Finance Committee.
- Fi:2* "Writing-off of non-received payments".

ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT

- ACFM:1* Agenda for the Advisory Committee on Fishery Management.

ACMP - ADVISORY COMMITTEE ON MARINE POLLUTION

- ACMP:1* Agenda for the Advisory Committee on Marine Pollution.
- ACMP:2* "Requests for advice from the Oslo and Paris Commissions to ICES".
- ACMP:3* "Review of site selection criteria for dumping at sea (in Coop.Res. Rep., No.76)".
- ACMP:4* H Compaan "Incineration of chemical wastes at sea - a short review".
- ACMP:5* "The ICES Coordinated Monitoring Program 1978 (revised)".
- ACMP:6* J B Pearce "Scientific studies in response to an oil pollution incident".
- ACMP:7* "Draft executive summary of the report 'Assessment of the Effects of Pollution on the Living Resources of the Baltic Sea'".
- ACMP:7a* "Overall conclusions for the document: 'Assessment of the Effects of Pollution on the Natural Resources of the Baltic Sea', July 1980 draft; accepted by the Scientific-Technological WG of the Helsinki Commission as an alternative to the draft in ACMP:7*" (above).

Pub - PUBLICATIONS COMMITTEE

- Pub:1* Agenda for the Publications Committee.
- Pub:2* "Sale of ICES publications during the
last three years".
- Pub:3* "Review of the publications".
- Pub:4* "Promotion of distribution of Journal
du Conseil, etc.".
- Pub:5* "Policy concerning publication of
invited lectures for the Opening Sessions".

A - CONSULTATIVE COMMITTEE

- A:1* Agenda for the Consultative Committee.

* For the relevant Committees only.

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 cod-ends 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)

B:14	A Endal	"Fuel saving potential in Norwegian fisheries".
B:15	T Digernes 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 Ref. Demersal and Pelagic Fish Cttees	E J Simmonds and S T Forbes	"Some range dependent variations affecting acoustic fish stock estimations".
B:18 Ref. Demersal and Pelagic Fish Cttees	J I Edwards	"A barge for the transport and storage of live fish".
B:19 Ref. Demersal and Pelagic Fish Cttees	J I Edwards	"A preliminary investigation of the target strength of herring".
B:20 Ref. Demersal and Pelagic Fish Cttees	S T Forbes, E J Simmonds and J I Edwards	"Progress in target strength measurements on live gadoids".
B:21	R De Clerck and G Vanden Broucke	"Preliminary results of selectivity experiments with beam trawls".
B:22 Ref. Shellfish 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 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 Ref. Demersal Fish Cttee	M Holm and A K Beltestad	"Behaviour of saithe penned in different densities".
B:27 Ref. Demersal Fish Cttee	G Rauck	"Mesh selectivity studies on board a low powered German sole beam trawler".
B:28 Ref. Biol. Oceanography Cttee	N Klages and F Nast	"The selection of Antarctic krill by the 1216 × krill trawl".

ish Capture Cttee (ctd)

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|---|------------------------------|---|
| B:29 | J C Brabant | "Les modalités du contrôle des maillages". |
| B:30
Ref. Biol.
Oceanography
Cttee | M T Törmä | "Assessment of Antarctic krill catch rates using computer modelling". |
| B:31 | J W Watson
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
Demersal Fish
Cttee | K Hoydal,
R Rørvik
and P Sparre | "A method for estimating the effective mesh sizes and the effects of changes in gear parameters". |
| J:6
Baltic Fish
Cttee | S E Shevtsov | "Selectivity of trawl cod-ends for flounder fishery in the Baltic Sea". |
| K:23
Shellfish
Cttee | R P Briggs and
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)

- | | | |
|---|---|--|
| C:16 | U.S. NODC | "ROSCOP summary of U.S. cruises in the ICES Area 1979". |
| C:17
Ref. Biol.
Oceanography
Cttee | S B Tijssen and
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
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,
W Fennel,
R Helm and
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
and W Zahn | "On the influence of large scale winds upon meso-scale upwelling dynamics off NW Africa". |
| C:22 | J C J Nihoul,
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,
M Dejonghe and
F Dehairs | "Strategy for the study of sea-air exchanges in the Belgian coastal zone". |
| C:25 | H D Dooley and
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
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
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).
- C:45
- C:46
- C:47

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

- | | | |
|--------------------------------|-------------------------------|---|
| D:8
Statistics
Cttee | E Collins | "Environmental impact/assessment studies - the problems of handling interdisciplinary data". |
| D:10
Statistics
Cttee | J A Pope | "Some statistical techniques for looking at large data sets". |
| D:12
Statistics
Cttee | P Geerders | "Introductory paper to the Joint Session of the Hydrography and Statistics Committees". |
| D:13
Statistics
Cttee | M T Jones | "The MIAS Oceanographic Data Base - the development of a general purpose data structure for serial data". |
| D:14
Statistics
Cttee | D P Kohnke | "Techniques for reducing large volumes of oceanographic data". |
| D:16
Statistics
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
Statistics
Cttee | J Smed | "Distribution of oceanographic information to the ICES community". |
| D:20
Statistics
Cttee | O Feddersen | "'Dana's' computer facilities. Dedicated system for on-board laboratory automation". |
| E:3
MEQC | | "Report of the Coordinating Group on Sediments and Pollution, Texel, Netherlands, 25-26 February 1980". |
| E:18
MEQC | K Grasshoff and
H P Hansen | "Small-scale variability of chemical parameters in the Baltic". |
| E:19
MEQC | J M Bewers <u>et al.</u> | "Design and logistical options for the conduct of the ICES Fifth Round Intercalibration for Trace Metals in Seawater". |
| E:34
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
Demersal Fish
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
Pelagic Fish
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

H:58 Pelagic Fish Cttee	Jens Smed	"Bottom temperature and salinity in the North Sea during the ICES Young Fish Survey January to March 1980".
L:3 Biol.Oceanography Cttee	K-H Kock, F Nast and M Stein	"Some interactions between hydrography, krill and fish near Elephant Island in 1977/78".
L:12 Biol.Oceanography Cttee	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".
L:70 Biol.Oceanography Cttee	R H Douglass	"Environmental issues arising from large-scale deployment of OTEC systems - an engineer's perspective".

D - STATISTICS COMMITTEE

- D:1 Administrative Report.
- D:2 J-Y Le Gall, "Description du système statistique
A Maucorps et des pêches maritimes en France (1980)".
C de Verdelhan
- D:3 "Report of the Statistics Committee
Liaison Working Group, Copenhagen,
19-20 May 1980".
- D:4 D L Cram and "Some experience with an experimental
Ref. Hydrography M Mall fisheries-oriented data-base".
Cttee
- D:5 K Hoydal "Fishing operations across the eastern
boundary of ICES Subdivision V_{bl}".
- D:6 G Gaschütz, "A versatile BASIC Program for fitting
Ref. Demersal and Pelagic Fish D Pauly and weight and seasonally oscillating
Cttees and N David length growth data".
Shellfish Cttee
- D:7 D Pauly "A BASIC Program for the objective
Ref. Demersal and Pelagic Fish and N David extraction of growth parameters from
Cttees and length-frequency data".
Shellfish Cttee
- D:8 E Collins "Environmental impact/assessment
Ref. Hydrography *withdrawn.* studies - the problem of handling
Cttee interdisciplinary data".
- D:9 J G Shepherd "A preliminary analysis of species
Ref. Demersal Fish and J G Pope directivity of effort in UK fisheries".
Cttee
- 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".

D:21

D:22

* For the relevant Committee only.

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:1 Administrative Report.
- E:2 *withdrawn* 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,
A H Roos and
W A Traag | "Calculation of the PCB content in fish samples". |
| E:15 | A J Murray and
R J Law | "Results of a mussel watch programme in England and Wales in 1977 and 1978". |
| E:16 | R J Law and
J E Portmann | "Summary of results of the first ICES intercomparison exercise on petroleum hydrocarbons". |
| E:17 | | "Papers of interest to the Marine Environmental Quality Committee". |
| E:18
Ref. Hydrography
Cttee | K Grasshoff
and H P Hansen | "Small-scale variability of chemical parameters in the Baltic". |
| E:19
Ref. Hydrography
Cttee | J M Bewers <u>et al.</u> | "Design and logistical options for the conduct of the ICES Fifth Round Intercalibration for Trace Metals in Seawater". |
| E:20 | S Ray and
D W McLeese | "Bioavailability of chlorinated hydrocarbons 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 environmental samples using glass capillary gas chromatography (GC) ² ". |
| E:23 | N P Morozov
and A M Stepanov | "Complex approach to the study of sea coastal ecosystems in connection with their pollution". |
| E:24 | R F Vaccaro,
J M Capuzzo and
N H Marcus | "The oceans and U.S. sewage sludge disposal strategy". |
| E:25 | B Watermann and
V Dethlefsen | "Preliminary report on histology and incidence of pseudobranch tumors in Atlantic cod (<u>Gadus morhua</u>) 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
and R J Law | "The hydrocarbon content of 'water-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)

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|--------------------------------------|--|---|
| 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
Ref. Marine
Mammals Cttee | P Johansen,
F O Kapel and
I Kraul | "Heavy metals and organochlorines in marine mammals from Greenland". |
| E:33
Ref. Mariculture
Cttee | | "Report of the ICES Working Group 'Pathology and Diseases in Marine Organisms', Copenhagen, 6-9 May 1980". |
| | | "Rapport du Groupe de Travail du CIEM 'Pathologie et Maladies des Organismes marins', Copenhague, 6-9 mai 1980". |
| E:34
Ref. Hydrography
Cttee | 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". |
| 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". |

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| E:41
Ref. Marine Mammals
Cttee | J McKie,
I M Davies
and G Topping | "Heavy metals in grey seals (<u>Halichoerus grypus</u>) from the east coast of Scotland". |
| E:42
Ref. Marine Mammals
Cttee | C R Falconer,
I M Davies
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
and G Topping | "The future of ICES analytical intercomparison exercises". |
| E:46 | A D F Johnstone
and A D Hawkins | "Changes in the respiration and blood circulation of cod, <u>Gadus morhua</u> , induced by exposure to pollutants". |
| E:47 | A D McIntyre | "A note on the input of contaminants from the atmosphere to the sea". |
| E:48 | A P Ward,
L C Massie and
J M Davies | "A survey of the level of hydrocarbons in the water and sediments in areas of the North Sea". |
| E:49
Ref. Biol.
Oceanography
Cttee | J M Davies,
I E Baird,
L C Massie
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| E:50 | R Johnston | "Environmental quality assessment in estuarine and coastal waters". |
| E:51
Ref. Mariculture
Cttee | A L S Munro
<u>et al.</u> | "The quarantine of coho salmon for a whole life cycle". |
| E:52
POSTER | H Möller,
R Schneider
and C Schnier | "PCBs and metals in mussels from the western Baltic". |
| E:53 | M Munk Hansen | "A critical evaluation of the use of chemical analyses of organisms to monitor sea water chemistry". |
| E:54
Ref. Biol.
Oceanography
Cttee | R J R Grainger,
C Duggan,
D Minchin and
D O'Sullivan | "Fisheries related investigations in Bantry Bay following the Betelgeuse disaster". |
| E:55
Ref. Marine
Mammals Cttee | D E Sergeant | "Levels of mercury and organochlorine residues in tissues of sea mammals from the Gulf of St. Lawrence estuary". |

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| E:56 | J B Pearce | "Status of estuaries and coastal waters between Cape Hatteras and Maine: a review". |
| E:57 | J G Soszka
<u>et al.</u> | "Trace metals, fluorine and radio-nuclids in Antarctic krill - <u>Euphausia superba</u> Dana". |
| E:58
Ref. Biol.
Oceanography
Cttee | J M Capuzzo | "The effects of pollutants on marine zooplankton at deepwater dumpsite 106; toxic effects and bio-accumulation of Dupont Edgemoor waste". |
| E:59 | R H Plumb Jr.
and
J M Brannon | "An evaluation of short-term sediment extracts to predict water column effects of dredged material disposal". |
| E:60
Ref. Mariculture,
Shellfish and
Anacat Cttees | | "Report of the ICES Working Group on the Introduction of Non-Indigenous Marine Organisms" - with a Supplement. |
| E:61 | V Tervo
<u>et al.</u> | "Contents of metals and chlorinated hydrocarbons in fish and benthic invertebrates in the Gulf of Bothnia and in the Gulf of Finland in 1979". |
| E:62 | | Withdrawn. |
| E:63 | A Jensen | "Preliminary report of the estimation of the accumulation rate of heavy metals in sediments from four Danish marine areas". |
| E:64 | A Jensen | "A discussion paper about the future role of sediment studies within ICES". |
| E:65 | T Melvasalo
and P Tulkki | "Effects of pollution of the seas around Finland". |
| E:66
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Mammals Cttee | R Wagemann,
N B Snow,
A Lutz and
J B Kemper | "Heavy metals in the narwhale <u>Monodon monoceros</u> from the Canadian Arctic".
<i>Withdrawn</i> |
| E:67 | J R Schubel and
H J Bokuniewicz | "Combining submarine sand mining with contaminated dredged material disposal - a possible solution to two problems". |

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C:1 Hydrography Cttee		"Second Report of the Marine Chemistry Working Group, Copenhagen, 12-14 February 1980".
C:11 Hydrography Cttee	E Buch and G Kullenberg	"On the mixing conditions in the Baltic Transition Area".
C:36 Hydrography Cttee	S H Fonselius	"On long time variations of phosphorus in Baltic surface water".
F:22 Mariculture Cttee	K E Jørstad, F Solberg and S Tilseth	"Enzyme polymorphism expressed in newly hatched cod larvae and genetic analysis of larvae exposed to hydrocarbons".
F:25 Mariculture Cttee	H Grave	"Fluor content of salmonids fed on Antarctic krill, <u>Euphausia superba</u> !"
L:15 Biol.Oceanography Cttee	A W White	"Fate and consequences of dino-flagellate toxins in marine food chains".

F - MARICULTURE COMMITTEE

F:1		Administrative Report.
F:2		"List of publications in the field of mariculture, 1979".
F:3	H Kuhlmann and H Koops	"A new technology for rearing elvers".
F:4	H Koops and H Kuhlmann	"Annual variation of feeding and growth rate of eels farmed in thermal effluents of a conventional power station".
F:5	H Wienbeck	"On the oxygen balance of an experimental eel farm operated in thermal effluents of a conventional power station".
F:6	A Arias, R B Rodriguez and P Drake	"Fish production in extensive polyculture in the esteros of Cadiz (Southern Spain)".
F:7 Ref. Shellfish 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)".
F:8 Ref. Anacat. Cttee	B D Glebe, W Eddy and R L Saunders	"The influence of parental age at maturity and rearing practice on precocious maturation of hatchery-reared Atlantic salmon parr".
F:9	V Øiestad and A S Haugen	"Rearing of halibut larvae (<u>Hippoglossus hippoglossus</u> L.) to metamorphosis and beyond".
F:10 Ref. Demersal Fish Cttee	R Harrop and J H Nichols	"Ling incubation experiment, 1979".
F:11 <i>Withdrawn</i>	M H Barahona- Fernandes and M T Dinis	"Rearing and growing of Dover sole (<u>Solea solea</u>) in laboratory conditions".
F:12	Th. Neudecker	"The performance of the condition index of oysters C <u>Crassostrea gigas</u>) during spring 1980 at two selected sites of the German coast".
F:13		Withdrawn.
F:14		Withdrawn.
F:15	M F Li, G S Traxler, S Clyburne and J E Stewart	"Malpeque disease: isolation and morphology of a Labyrinthomyxa-like organism from diseased oysters".

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- F:16 G J Anderson and K K Chew "Intertidal culture of the Manila clam, Tapes japonica, using hatchery-reared seed clams and protective net enclosures".
- F:17 M Abraham, V Hilge, S Lison and H Tibika "A functional analysis of the relationship between envelope cells and oocytes in the teleostean ovary".
- F:18 Ref. Anacat. Cttee B Eckstein, V Hilge and S Cohen "Formation of 5β - androstanes as the major metabolites of testicular tissue of human chorionic gonadotropin treated Anguilla anguilla (L.) at the silver stage".
- F:19 POSTER C R Arnold "Spawning and rearing of red drum (Sciaenops ocellata) and red snapper (Lutjanus campechanus) in captivity".
- F:20 B Braaten and S Lohne Gokstad "Appetite feeding experiments with cod - preliminary results".
- F:21 "Report of Study Group on Genetics".
- F:22 Ref. MEQC and Demersal Fish Cttee K Jørstad, F Solberg and S Tilseth "Enzyme polymorphism expressed in newly hatched cod larvae and genetic analysis of larvae exposed to hydrocarbons".
- F:23 I Huse and P Jensen "Status of an intensive cod-rearing project in Norway".
- F:24 Withdrawn.
- F:25 Ref. MEQC *Withdrawn* H Grave "Fluor content of salmonids fed on Antarctic krill, Euphausia superba".
- F:26 Ref. Anacat. Cttee K Tiews "Report on the EIFAC Symposium on New Developments in the Utilisation of Heated Effluents and of Recirculation Systems for Intensive Aquaculture, supported by ICES".
- F:27 E His et R Robert "Action d'un sel organométallique, l'acétate de tributyle-étain sur les oeufs et les larves D de Crassostrea gigas (Thunberg)".
- F:28 S Hansson "An evaluation of different methods for the determination of fish food composition".
- F:29 J Person-Le Ruyet, J Barret, D L'Elchat et G Nédélec "Données sur la croissance du turbot d'élevage, Scophthalmus maximus, entre 3 mois et 3 ans".

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| F:30 | D E Aiken
and L S Waddy | "Brood stock control in a lobster culture system". |
| F:31 | D Kuhlmann,
G Quantz,
W Nellen and
J Lenz | "The development of turbot eggs, <u>Scophthalmus maximus</u> L., from the Baltic Sea under different temperature and salinity conditions". |
| F:32 | G Quantz,
D Kuhlmann,
U Witt, W Nellen
and J Lenz | "Rearing of turbot larvae (<u>Scophthalmus maximus</u> L.) on cultured food organisms: results from the 1979 and 1980 rearing seasons". |
| F:33 | Ed. by
J D Castell and
K Tiews | "Report of the EIFAC, UINS and ICES Working Group on Standardisation of Methodology in Fish Nutrition Research (Hamburg, Federal Republic of Germany, 21-23 March 1979)".

"Rapport du Groupe de Travail de la CECPI, de l'UISN et du CIEM sur la Normalisation de la Méthodologie dans la Recherche sur la Nutrition des Poissons (Hambourg, République Fédérale d'Allemagne, 21-23 mars 1979)". |
| F:34 | C E Nash | "Fundamental limitations to the scaling up of aquaculture facilities". |
| F:35 | | |

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| D:18
Statistics
Cttee | Chairman of
Statistics
Cttee | "Collection of statistics on aquaculture". |
| E:33
MEQC | | "Rapport du Groupe de Travail du CIEM: 'Pathologie et maladies des organismes marins', Copenhague, 6-9 mai 1980".

"Report of the ICES Working Group: 'Pathology and Diseases in Marine Organisms', 6-9 May 1980, Copenhagen". |
| E:51
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<u>et al.</u> | "The quarantine of coho salmon for a whole life cycle". |
| E:60
MEQC | | "Report of the Working Group on the Introduction of Non-indigenous marine Organisms" - with a Supplement". |
| K:9
Shellfish Cttee | R Wienberg | "On the food and feeding habits of <u>Pandalus borealis</u> (Krøyer 1838)". |

G - DEMERSAL FISH COMMITTEE

- G:1 Administrative Report.
- G:2 "Report of the ad hoc Working Group on
Ref. Pelagic Multispecies Assessment Model
Fish Cttee Testing, Copenhagen, 3-7 March 1980".
- G:3 "Report of the Working Group on
Ref. Pelagic Division IIIa Stocks, Charlottenlund,
Fish Cttee 24-28 March 1980".
- G:4 "Report of the Working Group on Redfish
and Greenland Halibut in Region 1,
Copenhagen, 18-25 March 1980".
- G:5 N Daan,
J R G Hislop,
J Lahn-Johannessen,
W G Parnell,
J S Scott and
P Sparre "Results of the International O-Group
Gadoid Survey in the North Sea
1980".
- G:6 "Report of the Working Group on Fish
Stocks at the Faroes, Copenhagen,
31 March - 2 April 1980".
- G:7 "Report of the North Sea Flatfish
Working Group, Copenhagen, 17-22
March 1980".
- G:8 "Report of the North Sea Roundfish
Working Group, Copenhagen, 14-18
April 1980".
- G:9 "Report of the Irish Sea and Bristol
Channel Working Group, Copenhagen,
17-25 April 1980".
- G:10 ~~Selected demersal fish publications~~
"Selected demersal fish publications
for 1979".
- G:11 "Report of the Saithe (Coalfish)
Working Group, Copenhagen, 28 April -
2 May 1980".
- G:12 "Report of the Arctic Fisheries
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1980".
- G:13 "Report of the Working Group on
Assessment of Hake Stocks, Copenhagen,
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- G:14 P D Wallace
and A M Watson "The migration pattern of sole tagged
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of 1976 and 1977".
- G:15 E Fridgeirsson "On sandeel in O-group surveys in
Icelandic and adjacent waters 1970-79".

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| G:16 | | Withdrawn. |
| G:17 | | Withdrawn. |
| G:18
Ref. Biol.
Oceanography
Cttee | L Sullivan | "Distribution, abundance, and mortality estimates of larval butterfish, <u>Peprilus triacanthus</u> , from MARMAP surveys, 1977 and 1978". |
| G:19
Ref. Pelagic
Fish Cttee | J G Pope | "Phalanx analysis: an extension of Jones' length cohort analysis to multispecies cohort analysis". |
| G:20 | | Withdrawn. |
| G:21
Ref. Hydrography
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". |
| G:22 | V V Dushchenko | "Preliminary results of investigations on intraspecific groupings of roundnose grenadier in the North Atlantic". |
| G:23
Ref. Pelagic
Fish Cttee | L D Panasenکو
and M S Soboleva | "Food interrelations between the Barents Sea capelin and Polar cod". |
| G:24 | A B Karasev | "On infestation of cod (<u>Gadus morhua morhua</u> L.) with nematodes of <u>Anisakidae</u> (Skrjabin et Karokhin, 1945) in the Barents Sea". |
| G:25 | V P Ponomarenko
<u>et al.</u> | "Growth and maturation of the Lofoten-Barents Sea cod". |
| G:26 | P H Odense | "Technological studies of the cod-worm (<u>Phoconema decipiens</u>) problem". |
| G:27
Ref. Pelagic
Fish Cttee | K Hoydal | "Large scale changes in fisheries and their effect on stock assessments". |
| G:28
Ref. Fish Capture
and Pelagic Fish
Cttees | K Hoydal,
J Rørvik and
P Sparre | "A method for estimating the effective mesh sizes and the effects of changes in gear parameters". |
| G:29
Ref. Pelagic
Fish Cttee | | "Report of the International O-Group Survey in Faroese Waters 1980". |
| G:30 | V Nikolaev | "Cod stocks in 1979 - Introduction to <u>Annales Biologiques</u> , Vol.36 (for 1979)". |
| G:31 | | "Publications relevant to the interests of the Demersal Fish Committee, 1980". |

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- G:32 F J Pereiro,
A Fernández
and S Iglesias "Relationships between depth and age,
and recruitment indexes of hake on
Galicia and Portugal shelf".
- G:33 B W Jones "Growth changes in North-East Atlantic
saithe stocks and the implications
for stock assessment".
- G:34 E Nielsen "A simulation method for calculation
of a TAC of North Sea sole".
- G:35 G W Smith,
A D Hawkins
and C Robb "The growth of juvenile cod Gadus
morhua in a Scottish sea loch".
- G:36 N M Soofiani
and A D Hawkins "Energy costs at different levels of
feeding in juvenile cod".
- G:37 F G Howard "Some observations on the food of cod
(Gadus morhua L.) on the Fladen and
in the Farn Deeps".
- Ref. Shellfish
Cttee
- G:38 R M Cook "Estimating haddock population size
by age using Scottish research vessel
surveys and virtual population
analysis".
- G:39 H Lassen "On the quality of the TACs recommended
through ICES".
- Ref. Pelagic and
Baltic Fish Cttees
- G:40 P Sparre "A goal function of fisheries (legion
analysis)".
- Ref. Pelagic and
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- G:41 Withdrawn.
- G:42 S A Schopka "The recent changes in fishing pattern
in Icelandic waters and their effects
on the yield of cod and haddock
stocks".
- G:43 R De Clerck
and G Sterk "Observations on the predation of cod
and whiting on Nephrops norvegicus (L.)
in the Outer Silver Pit during 1979".
- Ref. Shellfish
Cttee
- G:44 F A van Beek
and P I van Leeuwen "Indices of recruitment from prerecruit
surveys on North Sea sole".
- G:45 A Sigurdsson and
J V Magnússon "On the nursery grounds of the
Greenland halibut spawning in Icelandic
waters".
- G:46 J Magnússon "On the relation between depth and
redfish in spawning condition SW of
Iceland".
- G:47 G Gubsch "Studies on age determination and growth
of the ice fish Chaenocephalus
aceratus Lönnberg".

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G:48	A W May, R G Halliday, R Wells and E Dunne	"Management of Canadian cod stocks".
G:49	Sv.Aa.Horsted, J M Jensen, B W Jones, J Messtorff and A Schumacher	"An assessment of the cod stock at East Greenland".
G:50	J P Hillis	"Ageing of cod <u>Gadus morhua</u> from whole otoliths".
G:51	N Daan	"Report on the catches of cod, haddock, whiting and Norway pout during the International Young Herring Survey 1980".
G:52	General Secretary	"Proposal for a Joint NAFO/ICES Working Group on Redfish Research".
G:53		"Preliminary report of the International O-Group Fish Survey in the Barents Sea and Adjacent Waters in August-September 1980".

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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 measurements on live gadoids".

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| B:26
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A K Beltestad | "Behaviour of saithe penned in
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| D:6
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D Pauly and
N David | "A versatile BASIC Program for fitting
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length growth data". |
| D:7
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Cttee | D Pauly and
N David | "A BASIC Program for the objective
extraction of growth parameters
from length-frequency data". |
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Cttee | J G Shepherd
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| F:10
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| H:10
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| H:52
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| H:64
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J Magnússon and
E Fridgeirsson | "Report on the 0-group fish survey in
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August 1980". |
| J:5
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Cttee | M N Lishev
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in cod from eastern Baltic". |
| J:12
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E Steffensen | "Growth pattern in cod otoliths as
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| K:20
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V Cheynier | "Preliminary data on the by-catch
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| K:35
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| L:32
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| L:35
Biol.Oceanography
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| L:59
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and A Durbin | "Some factors affecting gastric evacuation in fishes". |
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| L:61
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R E Bowman | "Fish food-habit studies - sampling procedures and data processing methods utilised by the Northeast Fisheries Center, Woods Hole Laboratory, USA". |
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R Langton | "Prey selection based on predator/prey weight ratios for some Northwest Atlantic fish". |
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R E Bowman and
R Langton | "Variability of the weight of fish stomach contents and its implications for fish food-habit studies". |

H - PELAGIC FISH COMMITTEE

- H:1 Administrative Report.
- H:2 "Bibliography of papers published by members of the Pelagic Fish Committee in 1979 or relevant to the interest of that Committee".
- H:3 "Final report on the ICES-Coordinated Acoustic Survey of Herring Stocks in 1979".
- H:4 "Report of the Herring Assessment Working Group for the Area South of 62°N, Copenhagen, 21-26 April 1980".
- H:5 "Report of the Blue Whiting Assessment Working Group, Bergen, 5-10 May 1980".
- H:6 P O Johnson
(ICES
Coordinator) "Report on echo-integrator surveys for sprat undertaken in the North Sea during the 1979-80 winter season".
- H:7 "Report of the Mackerel Working Group, Copenhagen, 28 April - 3 May 1980".
- H:8 "Report of the Working Group on Atlanto-Scandian Herring, Bergen, 12-14 May 1980".
- H:9 R Schöne "Biological investigations on blue whiting in the waters between Faroe and the area southwest of Ireland in January to March 1980".
- H:10 M R Clark
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- H:11 H Dornheim and
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- H:12 F G Carey and
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- H:13 A B Bowers "Characteristics of herring spawning grounds".
- H:14 N A Nazarov "On the problem of rational fishing for the Northeast Atlantic horse-mackerel".
- H:15 E M Karasiova
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- H:17 N A Isaev and A V Shevchenko "Peculiarities of blue whiting distribution in the Norwegian Sea in May/June 1978 and 1979".
- H:18 M L Zaferman et al. "Assessment of blue whiting stocks and prospects of their fishery in the Norwegian Sea".
- H:19 N G Ushakov and A S Galkin "Perspectives for capelin fishery and their stock status in the Barents Sea".
- H:20 A V Zubchenko et al. "On migration of larval Anisakis sp. into the flesh of blue whiting (Micromesistius poutassou)".
- H:21 T V Antipova et al. "Seasonal and year to year dynamics of occurrence frequency of the main food objects for haddock and their stomach fullness degree in the Barents Sea".
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- H:23 Ed. by: E Bakken, J Rodriguez-Roda and K Tiews "Report of the Bluefin Tuna Working Group. Observations on the size composition of bluefin tuna catches from 1979".
- H:24 "Report on the ICES Coordinated Acoustic Survey of Herring in the Northwestern North Sea, 1980".
- H:25 P H Odense and C Annand "Herring (Clupea harengus) isoenzyme studies".
- H:26 V Nikolaev "Herring Stocks in 1979 - Introduction to Annales Biologiques, Vol.36 (for 1979)".
- H:27 Withdrawn.
- H:28 J G Shepherd "Management of the North Sea stock of herring".
- H:29 S J Lockwood and J G Shepherd "An alternative pattern of exploitation for the western mackerel stock".
- H:30 D R Eaton "Mortality of internally-tagged mackerel (Scomber scombrus L.)".
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- H:32 V K Zilanov "Short results of the Soviet study of blue whiting (Micromesistius poutassou Risso) ecology in the North Atlantic".

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- H:33 A Johannessen "Predation on herring (Clupea harengus) eggs
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- H:34 J Jakobsson "Monitoring the recovery of the Icelandic
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- H:36 A Corten "Experiments on the detection of magnetic
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- H:37 A Corten "The use of larval abundance data for
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- H:38 I M Jorge and "Preliminary results on age and growth
C Monteiro of Sardina pilchardus Walb. in Sub-area
IXa".
- H:39 V K Zilanov "The results of Soviet research of blue
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- H:40 D Guerault "La croissance linéaire de la sardine du
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