

Contributions to be presented at the Statutory Meeting.

<u>Contents</u>	<u>Page</u>
Gen	General Assembly Reports and Papers of General Interest 1
Del	Delegates Meetings 2
Fi	Finance Committee 3
ACFM	Advisory Committee on Fishery Management 3
ACMP	Advisory Committee on Marine Pollution .. 3
Pub	Publications Committee 3
A	Consultative Committee 4
Assess	Assessment Working Groups' Reports 5
B	Fish Capture Committee 7
C	Hydrography Committee 11
D	Statistics Committee 15
E	Marine Environmental Quality Committee .. 18
F	Mariculture Committee 25
G	Demersal Fish Committee 28
H	Pelagic Fish Committee 36
J	Baltic Fish Committee 44
K	Shellfish Committee 47
L	Biological Oceanography Committee 52
M	Anadromous and Catadromous Fish Committee 57
N	Marine Mammals Committee 60

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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 "Observers' reports from cooperating organisations".
- Gen:2 "Some activities of the International Council for the Exploration of the Sea, 1982/83".
- Gen:3 M F Li,
Symp. V Marryatt
and A Moore "A primary report on the prevalence of erythrocytic inclusions in Atlantic coast stocks of haddock (Melanogrammus aeglefinus), pollock (Pollachius virens) and redfish (Sebastes marinus)".
- Gen:4 A H McVicar
Symp. "Method of determining Ichthyophonus-induced mortality in wild plaice (Pleuronectes platessa) populations".
- Gen:5 A L S Munro
Symp. "Are communicable diseases a significant source of mortality in exploited marine fish populations?"
- Gen:6 ICES Hydrographer "Catalogue of regularly issued marine environmental data products for the ICES area. 1983 issue".
- Gen:7 H Haskin
Symp. and S E Ford "Quantitative effects of MSX disease (Haplosporidium nelsoni) on production of the New Jersey oyster beds in Delaware Bay, U.S.A.".
- Gen:8 E Egidius
Symp. "Registration of diseases during traditional biological surveys".
- Gen:9 H Grizel
Symp. "The economic impact of disease on oyster culture, in particular that of Marteilia refringens and Bonamia ostreae".
- Gen:10 J Brook,
Symp. D V Lightner
and T A Bell "A review of four virus (BP,MEV,BMN and IHNV) diseases of penaeid shrimp with particular reference to clinical significance, diagnosis and control in shrimp aquaculture".
- Gen:11 S P Lall,
Symp. W D Paterson,
J A Hines
and N J Adams "Control of bacterial kidney disease in Atlantic salmon, Salmo salar, by dietary modification".
- Gen:12 "Advance Release of Tables 1-6 of Bulletin Statistique, Vol. 67, 1982".
- Gen:13 "Election of Committee Chairmen at the 71st Statutory Meeting". (E+F)
- Gen:14 "Notes to the Recommendations and Reports". (E+F)

Del - DELEGATES MEETINGS

- Del:1* "Audited accounts for 1981/82 with balance sheet as per 31/10 1982".
- Del:2* "Preliminary report on the administration 1982/83".
- Del:3* "Administrative reports of area- and subject Committees".
- Del:4* "Estimated accounts for the financial year 1982/83".
- Del:5* "Budget for the financial year 1983/84".
(E+F)
- Del:6* "Medium-term plan for staffing and investments". (E+F)
- Del:7* "Forecast budget for the financial year 1984/85". (E+F)
- Del:8* "Elections to be undertaken by the Council at the 71st Statutory Meeting".
(E+F)
- Del:9* "Consideration of questions related to Administrative Reports".
- Del:10* "Procedures for appointment of a General Secretary".
- Del:11* "Scientific research in economic zones".

* For Delegates only.

(E+F) = in English and French.

A - CONSULTATIVE COMMITTEE

- | | |
|------|---|
| A:1* | Agenda for the Consultative Committee. |
| A:2* | "Annotations to the Agenda". |
| A:3* | "Problems concerning Programme of subject-area Committee sessions". |
| A:4* | "Postponement of Mini-Symposium subject for 1984". |

* For the relevant Committee only.

ASSESS - ASSESSMENT WORKING GROUPS' REPORTS

Assess:1	"Report of the North Sea Flatfish Working Group, Copenhagen, 20-25 September 1982".
Assess:1/Addendum	"Report of the North Sea Flatfish Working Group, IJmuiden, 14-17 June 1982".
Assess:2	"Report of the Arctic Fisheries Working Group, Copenhagen, 21-28 September, 1982".
Assess:3	"Report of the Blue Whiting Assessment Working Group, Copenhagen, 15-21 September 1982".
Assess:4	"Atlanto-Scandian Herring and Capelin Working Group Report, Copenhagen 27-29 October 1982".
Assess:5	"Report on Stock Components in Herring landings from Division IIIa, Copenhagen, 24-28 January 1983".
Assess:6	"Report of the Working Group on Redfish and Greenland Halibut in Region 1, Copenhagen, 24 February - 1 March 1983".
Assess:7	"Report of the Industrial Fisheries Working Group, Copenhagen, 23 February - 1 March 1983".
Assess:8	"Report of the Working Group on Cod Stocks off East Greenland, Copenhagen, 3-8 March 1983".
Assess:9	"Report of the Herring Assessment Working Group for the Area South of 62°N, Copenhagen, 9-18 March 1983".
Assess:10	"Report of the Baltic Salmon Assessment Working Group, Copenhagen, 16-22 March 1983".
Assess:11	"Report of the North Sea Flatfish Working Group, Copenhagen, 17-22 March 1983".
Assess:12	"Interim Report of Division IIIa Demersal Stocks Working Group".
Assess:13	"Report of the Working Group on Assessment of Pelagic Stocks in the Baltic, Copenhagen, 6-15 April 1983".

Assess (ctd)

Assess:14	"Working Group for the Appraisal of Sardine Stocks in Divisions VIIIc and IXa, Lisbon, 22-26 March 1983".
Assess:15	"Report of the Working Group on Assessment of Demersal Stocks in the Baltic, Copenhagen, 6-13 April 1983".
Assess:16	"Report of the Saithe (Coalfish) Working Group, Bergen, 18-24 March 1983".
Assess:17	"Report of the Working Group on Methods of Fish Stock Assessments, Copenhagen, 20-26 May 1983".
Assess:18	"Report of the North Sea Roundfish Working Group, Copenhagen, 7-16 June 1983".
Assess:19	"Report of the Irish Sea and Bristol Channel Working Group, Copenhagen, 8-17 June 1983".
Assess:20	"Report of the Hake Working Group, Copenhagen, 29 June-6 July 1983".
Assess:21	"Report of the <u>ad hoc</u> Study Group on Assessment of Stocks in Sub-areas VII and VIII, ICES Headquarters, 20-26 May 1983.

Assess:22

B - FISH CAPTURE COMMITTEE

- B:1 Administrative Report.
- B:2 C R Hood "English acoustic survey methods and
and W L Huggins procedures".
- B:3 S Olsen and "Effects of near-bottom currents on
Ref. Hydrography T Laevastu the distribution of olfactory stimuli
Cttee (smell) from baits".
- B:4 S Olsen and "Factors affecting catch of long lines
T Laevastu evaluated by a simulation model of
long-line fishing".
- B:5 "General Report of the Joint Meeting
of the Fish Capture Committee's
Working Groups, 2-6 May 1983".
- B:6 H Bohl "Selection of cod by bottom trawl cod-
Ref. Demersal Fish Cttee end in the German Bight".
- B:7 "Report of the Working Group on
Research on Engineering Aspects of
Fishing Gear, Vessels and Equipment,
IJmuiden, Netherlands, 2-6 May 1983".
- B:8 Yu.V.Kadil'nikov "Theoretical premises of influence
Ref. Demersal Fish Cttee of angle of attach of cable, netting
and other parameters on size-
specific selectivity of fishing
trawls".
- B:9 Yu.V.Kadil'nikov "Behaviour of fishing targets and
catchability of fishing trawls".
- B:10 S I Saranchov "Experimental verification of the
Ref. Demersal and Pelagic et al. dependence of echo signals intensity
Fish Cttees of fish concentration density".
- B:11 I L Kailkhan "Indicatrixes of back acoustic
Ref. Demersal and Pelagic scattering by fish: their account in
Fish Cttees echo surveys".
- B:12 Z M Berdichevsky "The effect of the TVG function
Ref. Demersal and Pelagic and V S Mamylov precision on the acoustic estimation
Fish Cttees of fish biomass (exemplified by the
international survey of blue whiting
in the Norwegian Sea in August 1982)".
- B:13 K G Konstantinov "Data for substantiation of the trawl
Ref. Demersal Fish Cttee et al. bag mesh size used during the specia-
lised redfish, Sebastes mentella,
fishery".

Fish Capture Cttee (ctd)

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|---|---|--|
| B:14
Ref. Demersal
and Pelagic
Fish Cttees | E S Borisenko | "Accounting of excess sound
attenuation in echo survey". |
| B:15
Ref. Pelagic
Fish Cttee | A Eltink | "Mesh selection results for mackerel
and horse mackerel". |
| B:16
Ref. Demersal
Fish Cttee | F A van Beek,
A D Rijnsdorp
and P I van Leeuwen | "Results of the mesh selection experi-
ments on sole and plaice with
commercial beam trawl vessels in
the North Sea in 1981". |
| B:17 | K Olsson
and J Angell | "A comparison of different echo
abundance conversion methods". |
| B:18
Ref. Demersal
Fish Cttee | T Jacobsen | "Selectivity experiments with Danish
seine on cod and haddock in
northern Norway in 1982". |
| B:19
Ref. Demersal
and Pelagic
Fish Cttee | J Dalen
and O Nakken | "On the application of the echo-
integration method". |
| B:20 | P Porche | "Réalisation d'un dispositif photo-
graphique pour l'identification et
l'estimation de l'abondance des
organismes marins pélagiques". |
| B:21
Ref. Shellfish
Cttee | A J Blott
<u>et al.</u> | "Development of a new research trawl
for northern shrimp, <u>Pandalus</u>
<u>borealis</u> , in the western Gulf of
Maine". |
| B:22
Ref. Statistics
Cttee | D N MacLennan
and J A Pope | "Analysis procedure for the inter-
ship calibration of echo
integrators". |
| B:23
Ref. Pelagic
Fish Cttee | J I Edwards
and F Armstrong | "Target strength measurements on
herring, sprat and mackerel". |
| B:24
Ref. Pelagic
Fish Cttee | S T Forbes
and E J Simmonds | " <u>In situ</u> target strength measure-
ments". |
| B:25
Ref. Demersal
and Pelagic
Fish Cttees | J H B Robertson | "Square mesh codend selectivity
experiments on whiting <u>Merlangius</u>
<u>merlangus</u> (L.) and haddock
<u>Melanogrammus aeglefinus</u> (L.)". |
| B:26 | R S T Ferro | "Report by the Study Group on Twine
Thickness Measurement". |

Fish Capture Cttee (ctd)

B:27	P A M Stewart and R S T Ferro	"Further measurements on the drag of codends".
B:28	P A M Stewart	"Flume tank measurements on gill nets".
B:29 Ref. Shellfish Cttee	J P Hillis	"Experiment with a double cod-end <u>Nephrops</u> trawl".
B:30	A Beltestad	"Experience with an improved power block for purse seining". (A film will be shown.)
B:31 Ref. Demersal Fish Cttee	Å Bjordal	"Effect of different long-line baits (mackerel, squid) on catch rates and selectivity for tusk and ling".
B:32	Å Bjordal	"Full scale trials with new hook designs and reduced size and bait".
B:33 Ref. Pelagic Fish Cttee	R Shotton	"Linearity of echo response from herring schools".
B:34		"Report of the Working Group on Reactions of Fish to Fishing Operations, IJmuiden, Netherlands, 5-6 May 1983".

Reference Papers to the Fish Capture Committee

D:10 Statistics Cttee	E L Cadima	"Effects on the yield of a cohort due to changes in the exploitation regime".
G:19 Demersal Fish Cttee	A I Treschev <u>et al.</u>	"Possible consequences of the change of the selection range for cod and haddock fishery in the North-East Atlantic".
G:37 Demersal Fish Cttee	O R Godø <u>et al.</u>	"Acoustic estimates of spawning cod off Lofoten and Møre in 1983".
G:60 Demersal Fish Cttee	R S Bailey <u>et al.</u>	"Experimental fishing for Norway pout using a horizontally-divided trawl".
H:4 Pelagic Fish Cttee		"Report of the Blue Whiting Planning Group for the Coordinated Acoustic Survey, 1983, Copenhagen, 2-3 March 1983".

Fish Capture Cttee

Reference Papers (ctd)

H:5 Pelagic Fish Cttee		"Report on the International Acoustic Survey on Blue Whiting in the Norwegian Sea, August 1983".
H:42 Pelagic Fish Cttee	C A Dias <u>et al.</u>	"Results of the Spanish-Portuguese joint acoustic survey for pilchard (Divisions VIIIc and IXa, ICES), August/September 1982".
H:44 Pelagic Fish Cttee	N Diner et R Le Men	"Evaluation acoustique des stocks de poissons pélagiques dans la partie sud du golfe de Gascogne en avril-mai 1981. Résultats préliminaires".
H:61 Pelagic Fish Cttee	L Midttun	"Report of the Norwegian acoustic survey on blue whiting, April 1983".
K:35 Shellfish Cttee	F G Howard, J Bailey and A M Shanks	"Investigations into cod-end mesh selectivity of shrimp trawls".
K:38 Shellfish Cttee	T R W Howell	"A comparison of the efficiencies of two types of Scottish commercial scallop dredge".

C - HYDROGRAPHY COMMITTEE

- | | | |
|---------------------------------------|---|---|
| C:1 | | "Fifth Report of the Marine Chemistry Working Group, Copenhagen, 7-10 February 1983". |
| Ref. MEQC | | |
| C:2 | | Withdrawn |
| C:3 | | "Report of the Working Group on Oceanic Hydrography, Brest (France), 27-29 April 1983". |
| C:4 | G van de Kamp | "Long-term variations in residual currents in the southern North Sea". |
| Ref. Demersal and Pelagic Fish Cttees | | |
| C:5 | T G Jensen,
G Kullenberg
and O Vagn Olsen | "The Jutland Current: carrier of North Sea signals towards the Baltic Sea". |
| C:6 | T Wojewódzki and
J Piechura | "Inflow(s) of North Sea waters in the Baltic Sea during November 1982 - May 1983". |
| C:7 | C K Ross | "Characteristics of the overflow water in Denmark Strait". |
| C:8 | J Meincke
and A Sy | "Large-scale effects of the Mid-Atlantic Ridge on the North Atlantic Current". |
| C:9 | | Withdrawn. |
| C:10 | T Gytre | "Operating experiences with a modular instrumentation system for measuring current speed, direction and temperature". |
| C:11 | S A Akenhead | "Mean temperatures and salinities from an ocean climate station by Newfoundland". |
| C:12 | H M van Aken
and H W Riepma | "Report on the stratified North Sea Experiment, 1981, 1982". |
| C:13 | | Withdrawn. |
| C:14 | J C Valderrama | "The distribution of urea in the Baltic Sea". |
| C:15 | R Mazé | "Ondes internes induites par le passage de la marée au-dessus d'un talus continental". |
| C:16 | R Mazé, Y Camus
et J-Y le Tureau | "Formation de gradients thermiques à la surface de l'océan, au-dessus d'un talus, par interaction entre les ondes internes et le mélange dû au vent". |

Hydrography Cttee (ctd)

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|--------------------------------------|--|---|
| C:17 | S Müller-Navarra
and J Backhaus | "Some model studies on the dynamics
of the transition area between the
North Sea and the Baltic". |
| C:18 | | Withdrawn. |
| C:19 | M Henrotte-Bois et
F Le Maguer | "Hydrologie d'une zone à talus
continental à partir des mesures
effectuées au cours de la campagne
'ENVAT 81'". |
| C:20 | Ph. Richardsson | "Drifting derelict trajectories in
the North Atlantic, 1883-1902". |
| C:21
Ref. MEQC | F Koroleff | "An automated colorimetric method
for the determination of dissolved
organic carbon in seawater by
U.V. destruction". |
| C:22 | ICES Hydrographer | "Activities of the ICES Service
Hydrographique during 1982/83". |
| C:23
Ref. Biol.
Oceanogr.Cttee | N K Højerslev
and H D Dooley | "On the potential of remotely sensed
data in conjunction with fish
surveys". |
| C:24 | W Fennel,
H Prandke
and H-U Lass | "On the penetration depth of wind
wave mixing". |
| C:25
Ref. Biol.
Oceanogr.Cttee | H Siegel and
H-J Brosin | "Some results of investigations on
the spectral reflectance in the
Baltic Sea". |
| C:26
Poster | A Tvirbutas and
A McPherson | "Application of a series of infra-
red satellite images for the
estimation of surface current and
tidal motion in the Georges Bank
region". (A film will be shown.) |
| C:27
Ref. Biol.
Oceanogr.Cttee | J Smed | "Report on the Fourth Session of the
IOC/SCOR Committee on Climatic
Changes and the Ocean, Paris,
18-22 January 1983". |
| C:28 | ICES Hydrographer | "Provisional programme of work for
ICES Service Hydrographique
1983/84". |
| C:29 | | "Report of the Working Group on
Marine Data Management, Brest,
16-20 May 1983". |
| C:30 | J Smed | "Report on the Second Meeting of the
IODE Group of Experts on Format
Development". |

Hydrography Cttee (ctd)

- C:31 J Smed "Introduction to the Hydrography Section of Annales Biologiques, Vol.39 (for 1982)".
- C:32 "Report of the Shelf Seas Hydrography Working Group. 7th Meeting at EPSHOM, Brest, France, 25-27 April 1983".
- C:33 "Report of the Study Group on a Tidal Stream Atlas".
- C:34 H D Dooley and G Topping "First report on ICES North Sea Nutrient Study".
- C:35 Poisson "Report on the Meeting of the JPOTS Sub-Panel on the International Oceanographic Tables, La Jolla (U.S.), 5-8 July 1983".

Reference Papers to the Hydrography Committee

- B:3 S Olsen "Effects of near-bottom currents on the distribution of olfactory stimuli (smell) from baits".
Fish Capture Cttee and T Laevastu
- D:2 T A Hosmer "Time series models of mean monthly temperature on the Atlantic continental shelf".
Statistics Cttee
- D:3 R H Gonter "Mean ocean temperature for the western North Atlantic displayed by colour graphics".
Poster Statistics Cttee
- E:8 "Report of the Third Meeting of the Working Group on Marine Sediments in relation to Pollution, Norwich, 26-28 April 1983".
MEQC
- E:18 J M Bowers "ICES fifth round intercalibration for trace metals in seawater. ICES 5/TM/SW. Sect.1: Comparison of filtration procedures".
MEQC and P A Yeats
- E:24 S S Berman "ICES fifth round intercalibration for trace metals in seawater. ICES 5/TM/SW. Section 3: preliminary report".
MEQC et al.
- E:28 C Alzieu, "Administrative summary report of the ICES 5th round intercalibration for trace metals in seawater. (5/TM/SW)".
MEQC J M Bowers and J C Duinker

Hydrography Cttee

Reference papers (ctd)

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|---------------------------------|--|---|
| E:30
MEQC | | "Report of the Workshop on Patchiness Experiments in the Baltic Sea, Tallinn, USSR, 22-23 March 1983". |
| E:31
MEQC | B I Dybern,
S G Engström
and S H Fonselius | "Experience from the patchiness expedition with R/V "Argos" in June 1982". |
| E:32
MEQC | C Vale
and R Mendes | "An approach to the study of the chemical composition of bottom sediment in Tagus estuary". |
| E:63
MEQC | J P Thomas
<u>et al.</u> | "The use of phytoplankton measurements in monitoring environmental trends". |
| H:54
Pelagic Fish
Cttee | J Smed | "Bottom temperature and salinity of the North Sea during the International Young Fish Survey 1983". |
| H:63
Pelagic Fish
Cttee | | "Report on joint Soviet-Icelandic investigations on hydrobiological conditions in the Norwegian Sea and Icelandic waters in May-June 1983". |
| L:23
Biol.Oceanogr.
Cttee | G Kullenberg | "Chlorophyll fluorescence distribution in the Georges Bank area: effects of mixing and topography". |

D - STATISTICS COMMITTEE

D:1	K Paine	"The role of the Statistics Committee of ICES".
D:2 Ref. Hydrogr. Cttee	C T A Hosmer	"Time series models of mean monthly temperature on the Atlantic continental shelf".
NR D:3 Poster Ref. Hydrogr. Cttee	R H Gonter	"Mean ocean temperature for the western North Atlantic displayed by colour graphics".
D:4 Ref. MEQC	H Lassen	"Multivariate analysis applied to monitoring time trends in chemical contaminants levels in fish".
D:5 Ref. Demersal, Pelagic and Baltic Fish Cttees	H Lassen	"Estimation of stock size and fishing mortality when data on catches and on stock abundance are available".
D:6	H Frost	"Types of data for an economic sector model for fisheries".
D:7	P Lewy	"Determination of terminal fishing mortality rate based on disaggregated fleet data".
D:8	P Lewy	"A model for estimation of terminal F based on disaggregated area and fleet data".
D:9	R Hannesson	"Economic analysis of fish catching: theoretical approach and data requirements".
D:10 Ref. Fish Capture Cttee	E L Cadima	"Effects on the yield of a cohort due to changes in the exploitation regime".
D:11		Withdrawn.
D:12 Ref. Demersal Fish Cttee	S A Murawski, M P Sissenwine and J E Kirkley	"Optimal effort allocation among competing mixed-species fisheries, subject to fishing mortality constraints".
D:13 Ref. Demersal and Pelagic Fish Cttees	J M Terry, J W Balsiger and R J Marasco	"Economic and biological measures of the status of stocks".
D:14 Ref. Demersal and Pelagic Fish Cttees	J P Troadec et A Maucorps	"Evolution des méthodes d'aménagement des pêcheries avec le nouveau droit de la mer".

Statistics Cttee (ctd)

D:15 Ref. Demersal Fish Cttee	D W Armstrong and R M Cook	"A proposal for the use of catch per unit effort data for assessing terminal F in VPA".
D:16 Ref. Demersal and Pelagic Fish Cttees	R C Hennemuth and S P Shepherd	"Comparison of density distributions of marine resources".
D:17 Ref. Demersal, Pelagic and Baltic Fish Cttees	J Kettunen and M Hildén	"The extended Kalman filter approach to VPA".
D:18 Ref. Demersal, Pelagic and Baltic Fish Cttees	D S Vaughan	"Application of statistical theory to stock assessment of menhaden".
D:19 Ref. Demersal, Pelagic and Baltic Fish Cttees	A J Chester and J J Waters	"Two stage sampling for age distri- bution in the Atlantic menhaden fishery with comments on optimal survey design".
D:20 Ref. Demersal, Pelagic and Baltic Fish Cttees	R J Magnus and K G Magnusson	"Existance and uniqueness of solutions to the multispecies VPA equations".
D:21	ICES Statistician	"Progress Report 1982/83".
D:22 Ref. Demersal, Pelagic and Baltic Fish Cttees	J Hoening and W Lawing	"Using the K oldest ages in a sample to estimate the total mor- tality rate".
D:23 Ref. Demersal, Pelagic and Baltic Fish Cttees	J Hoening, W Lawing and N Hoening	"Using mean age, mean length, and median length data to estimate the total mortality rate".
D:24 Ref. Demersal, Pelagic and Baltic Fish Cttees	J Hoening and W Lawing	"Using incomplete tagging data to estimate the total mortality rate when the sex ratio is skewed".
D:25 Ref. Demersal, Pelagic and Baltic Fish Cttees	N Hoening and R Hanumara	"Statistical considerations in fitting seasonal growth models for fishes".

Statistics Cttee (ctd)

D:26

Withdrawn.

D:27

O F Hansen,
K Hoydal and
W Panhorst

"Establishing the IYFS data base
at ICES headquarters".

Reference Paper to the Statistics Committee

B:22

Fish Capture
Cttee

D N MacLennan
and J A Pope

"Analysis procedure for the inter-
ship calibration of echo inte-
grators".

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:1 + ADD Administrative Report.
- E:2 V Dethlefsen, "Sources of variance in data
B Watermann and from fish disease surveys".
M Hoppenheit
- E:3 "Report of the Working Group on
Marine Pollution Baseline and
Monitoring Studies in the North
Atlantic, Copenhagen, 1-4
February 1983".
- E:4 "Report of the ICES/SCOR Working
Group on the Study of the
Pollution of the Baltic, Tallinn,
USSR, 24-25 March 1983".
- E:5 D Bucke, "Fish disease studies in Liverpool
S Feist Bay and the northeast Irish Sea".
and M Rolfe
- E:6 V Dethlefsen "Marine pollution mismanagement
towards the precautionary con-
cept".
- E:7 G Oko~~z~~otowicz "Macrozoobenthos of the Gdańsk Bay
Ref. Biol. as an indicator of its pollution".
Oceanogr. Cttee
- E:8 "Report of the third meeting of the
Ref. Hydrogr. Working Group on Marine Sediments
and Biol. Oceanogr. in relation to Pollution, Norwich,
Cttees 26-28 April 1983".
- E:9 H W Hill "Time trends in trace metal concen-
and A D Fordham trations in fish in U.K. coastal
waters".
- E:10 J E Thain and "The effect of suspended sediment
Ref. Mariculture M J Waldock and bis (Tributyl) oxide on the
Cttee growth of Crassostrea gigas spat".
- E:11 R A A Blackmann, "The toxicity of alternative base-
T W Fileman and oils and drill-muds for use in the
R J Law North Sea".
- E:12 M J Waldock "The determination of total and
and D Miller Tributyl tin in seawater and
oysters in areas of high pleasure
craft activity".
- E:13 J E Thain "The acute toxicity of bis
(Tributyl tin) oxide to the adults
and larvae of some marine organisms".

MEQC (ctd)

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| E:14 | N P Morozov
and S A Petukhov | "Biochemical approach for estimation of maximum tolerable burden of some metals in the Baltic ecosystem". |
| E:15 | P C Wood
and A Franklin | "The bioavailability of metals in fly ash and colliery waste dumped at sea". |
| E:16
Ref. Shellfish
Cttee | K Tiews | "On the changes of fish and crustacean stocks on the German North Sea coast during the years 1954-81 and the hypothetical role of pollution as a causative factor". |
| E:17 | | "Publications of interest to the Marine Environmental Quality Committee 1982". |
| E:18
Ref. Hydrogr.
Cttee | J M Bowers
and P A Yeats | "ICES fifth round intercalibration for trace metals in seawater. ICES 5/TM/SW. Sect. 1: Comparison of filtration procedures". |
| E:19 | H Pieters,
J Speur and
N Wassenaar | "Total mercury content in fish from Dutch waters in relation to biological parameters and pollution level". |
| E:20 | J A Calder
and A Y Cantillo | "Update on quality assurance procedures within the U.S. National Oceanic and Atmospheric Administration". |
| E:21
Ref. Mariculture
Cttee | H Rosenthal | "Summary report on the outcome of the 'ELFAC Workshop on Fish-Farm Effluents'". (Prel.title.) |
| E:22
Ref. Mariculture
Cttee | ? | "Effects of coastal cage farms on water quality in protected bays of Japan". |
| E:23
Ref. Mariculture
and Anacat
Cttees | G Peters,
R Hoffmann
and L Jørgensen | "Gill and fin lesions in rainbow trout from aquaculture units in fresh and brackish waters". |
| E:24
Ref. Hydrogr.
Cttee | S S Berman
<u>et al.</u> | "ICES fifth round intercalibration for trace metals in seawater. ICES 5/TM/SW. Section 3. Preliminary report". |
| E:25 | M Parker,
F P Thurberg
and V Dethlefsen | "Biological effects monitoring - implementation of a programme". |

MEQC (ctd)

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| E:26
Poster
(Note: <u>Later withdrawn</u>) | J W Kiceniuk | "Compositional changes of crude oil in sediments in relation to biological effects on flounder". |
| E:27
Ref. Mariculture
Cttee | J Ryther | "Use of aquatic plants to improve water quality of aquaculture effluents". |
| E:28
Ref. Hydrogr.
Cttee | C Alzieu,
J M Bowers
and J C Duinker | "Administrative summary report of the ICES 5th round inter-calibration for trace metals in seawater (5/TM/SW)". |
| E:29 | | "Report of the first meeting of the Working Group on Pollution-Related Studies in the Skagerrak and Kattegat, Copenhagen, 4-5 May 1983". |
| E:30
Ref. Hydrogr.
Cttee | | "Report of the Workshop on Patchiness Experiments in the Baltic Sea, Tallinn, USSR, 22-23 March 1983". |
| E:31
Ref. Hydrogr.
Cttee | B I Dybern,
S G Engström
and S H Fonselius | "Experience from the patchiness expedition with R/V 'Argos' in June 1982". |
| E:32
Ref. Hydrogr.
Cttee | C Vale
R Mendes | "An approach to the study of the chemical composition of bottom sediment in Tagus estuary". |
| E:33
Ref. Mariculture
and Biol.Oceanogr.
and M Parker
Cttees | T Dunne,
J O Mahoney
and M Parker | "Investigations of algal blooms in relation to a mariculture project in Dunmanus Bay, Ireland, 1982". |
| E:34 | H H White | "Mussel Watch: use and misuse of biological monitors of marine pollution". |
| E:35
Ref. Biol.
Oceanogr.Cttee | M J Brogueira
and M A M Sampayo | "On a <u>Noctiluca scintillans</u> (McCartney) Ehrenb. bloom off the south coast of Portugal - Algarve". |
| E:36 | H C Freeman
and J F Uthe | "The polychlorinated biphenyl, organochlorine pesticide and chlorobenzene content of liver from Atlantic cod (<u>Gadus morhua</u>) caught off Halifax, Nova Scotia in 1980". |
| E:37 | C J Musial
and J F Uthe | "A study of the stability of polychlorinated biphenyl in fish oil". |

MEQC (ctd)

- E:38 J F Uthe
and C J Musial "Summary report of the Fifth
Intercomparative Exercise
on the determination of organo-
chlorine residues in fish
oil (5/OC/BT)".
- E:39 J McKie "An examination of metals in
flounder (Platichthys flesus)
collected from two Scottish
estuaries".
- E:40 C R Falconer "A survey of cadmium in crabs
from Scottish coastal waters".
- E:41 I M Davies "The detection of anthropogenic
inputs and potential bio-avail-
ability of metals on sewage sludge
dumping grounds".
- E:42 A D McIntosh,
L C Massie
and P R Mackie "A survey of hydrocarbon levels
and some bio-degradation rates in
water and sediments around North
Sea oil platforms, 1981, 1982".
- E:43 D C Moore "Biological effects on benthos
around the 'Beryl' oil platform".
- E:44 I M Davies
and J McKie "Mercury concentrations in the
Norway lobster (Nephrops
norvegicus)".
- E:45 B Berland,
Poster H Möller
Ref. Demersal and K Anders
and Pelagic
Fish Cttees "Identification of larval and
adult nematodes in fish from the
NE Atlantic".
- E:46 Withdrawn.
- E:47 H Möller "Seasonal and regional fluctua-
tions of fish diseases in the
Elbe estuary".
- E:48 H Möller "A survey on fish stocks of the
Ref. Anacat Cttee lower Elbe river".
- E:49 H Möller
and K Anders "A compilation of viruses found
in fish from marine and brackish
water environments".
- E:50 T Stork "PCB levels correlated with
ulcus-syndromes in cod (Gadus
morhua L.) in the North Sea".

MEQC (ctd)

- E:51 T Belton and R K Tucker "Xenobiotics in fish; uses of fish and fisherman monitoring data for public policy and public health decisions".
- E:52 M J Waldock et al. "The accumulation and depuration of bis (Tributyl tin) oxide in oysters. A comparison between the Pacific oyster (Crassostrea gigas) and the European flat oyster (Ostrea edulis)".
- E:53 A Cantelmo-Cristini, F Hospod and R Lazell "In situ studies on the adenylate energy charge of populations of Corbicula fluminea in a fresh water system".
- E:54 P F Larsen "An application of thermal satellite imagery to macrobenthos investigations in the Gulf of Maine".
- E:55 A Longwell et al. "Frequencies of micronuclei in mature and immature erythrocytes of fish as an estimate of chromosome mutation rates - results of field surveys on windowpane flounder, winter flounder and Atlantic mackerel".
- E:56 A W Hulbert and I G Harris "A preliminary regional assessment of Massachusetts and Cape Cod Bays".
- E:57 E Gould "Seasonal biochemical patterns for a single population of sea scallops, Placopecten magellanicus, and their use in interpreting field data".
- E:58 R G Bill and F P Thurberg "Effects of pollutants on heart and gill-bailer activities of the lobster, Homarus americanus".
- E:59 D Nelson et al. "Monitoring water quality at a dredge spoil dump site using oyster larvae".
- E:60 J F Matta and H G Marshall "A multivariate analysis of phytoplankton populations in the Gulf of Maine".
- E:61 H G Marshall "Phytoplankton spatial distribution from Georges Bank across the continental shelf break".
- E:62 Withdrawn.

MEQC (ctd)

- E:63 J P Thomas "The use of phytoplankton measure-
Ref. Hydrogr. et al. ments in monitoring environmental
and Biol. trends".
Oceanogr.Cttees
- E:64 A Cali and "Environmental variability as
Ref. Biol. N Takvorian reflected in Glugea stephani
Oceanogr.Cttee incidence in winter flounder
Pseudopleuronectes americanus".
- E:65 V Dethlefsen "Workshop on Methodology of
Fish Disease Surveys".
- E:66 "Report on the third meeting of
the ad hoc Group of Experts on
Assessment of the State of the
Marine Environment of the Baltic
Sea, Copenhagen, 26-27 May 1983".

Reference Papers to the Marine Environmental Quality Committee

- C:1 "Fifth Report of the Marine
Hydrography Chemistry Working Group, Copen-
Cttee hagen, 7-10 February 1983".
- C:21 F Koroleff "An automated colorimetric method
Hydrography for the determination of
Cttee dissolved organic carbon in sea-
water by U.V. destruction.
- D:4 H Lassen "Multivariate analysis applied
Statistics to monitoring time trends
Cttee in chemical contaminants levels
in fish".
- F:23 "Report of the Working Group on
Mariculture Pathology and Diseases in Marine
Cttee Organisms, Lisbonne, Portugal,
18-22 April 1983". (E+F)
- F:26 B Braaten. "Pollution problems in Norwegian
Mariculture et al. fish farming".
Cttee
- F:27 "Report of the Working Group on
Mariculture Introductions and Transfers of
Cttee Marine Organisms, Bergen, Norway,
10-13 May 1983".

MEQC

Reference Papers (ctd)

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|---------------------------------|------------------------------|---|
| G:40
Demersal Fish
Cttee | H Rehbein | "Differentiation of redfishes from the Northeast Atlantic (<u>Sebastes marinus</u> L., <u>S.mentella</u> Travin, <u>S.viviparus</u> Krøyer and <u>Helicolenus dactylopterus</u> d. Delaroche 1809) by isoelectric focusing of sarco-plasmic proteins". |
| K:21
Shellfish Cttee | R Boddeke | "The coast zone of Holland, a new Waddensea". |
| L:3
Biol.Oceanogr.
Cttee | K Tangen | "Mussel poisoning and the occurrence of potentially toxic dino-flagellates in Norwegian waters". |
| L:29
Biol.Oceanogr.
Cttee | P Lassus | "Bilan des eaux colorées observées sur le littoral français entre 1975 et 1982". |
| M:19
Anacat.Cttee | H C Freeman
<u>et al.</u> | "Studies on the effects of a low pH river on weight gain, sexual maturation, androgen production and reproduction in Atlantic salmon (<u>Salmo salar</u>)". |
| N:3
Marine Mammals
Cttee | | "Report of the Working Group on Seals in the Baltic, Copenhagen, 20-22 April 1983". |
| N:10
Marine Mammals
Cttee | E Helle | "Factors affecting reproductive success of seals in the Baltic Sea and Lake Saimaa, NW Europe". |
| N:11
Marine Mammals
Cttee | P J H Reijnders | "Man induced environmental factors in relation to fertility changes in Pinnipeds". |

F - MARICULTURE COMMITTEE

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|------|----------------------|--|
| F:1 | | Administrative Report. |
| F:2 | Ref. Anacat Cttee | "Working Group on Genetics, Lowestoft, 27-29 April 1983". |
| F:3 | Ref. Shellfish Cttee | A J W Phernambucq and C S Vroonland "A comparison of four indices of condition of the European flat oyster <u>Ostrea edulis</u> L.". |
| F:4 | | S D Utting and M M Helm "Chemical pre-treatment as a technique to improve sea-water quality in bivalve hatchery work". |
| F:5 | | V Øiestad, P G Kvenseth and A Folkvord "Mass production of cod fry in a pond in western Norway, with additional feeding post-metamorphosis". (A film will be shown.) |
| F:6 | | V Øiestad "Application of larval fish population dynamics in enclosure systems in production of marine fish fry". |
| F:7 | | H Ackefors "A multidisciplinary approach to the national planning of aquaculture". |
| F:8 | Ref. Shellfish Cttee | W Blogoslawski "Influence of water quality on shellfish culture". |
| F:9 | Ref. Shellfish Cttee | A Longwell <u>et al.</u> "Results of a bi-directional growth selection experiment in the American oyster presently in its third selected generation". |
| F:10 | Ref. Shellfish Cttee | S Stiles, J Choromanski and A Longwell "Cytological appraisal of prospects for successful genogenesis, parthenogenesis and androgenesis in the oyster". |
| F:11 | | A Longwell "Recently reported, currently funded or proposed U.S. studies in aquaculture genetics, or on genetics of natural or stocked populations of some relevance to concepts of stock management". |
| F:12 | | S Euteneuer, E Lubzens and R Fisher "A preliminary report on cold preservation of the rotifer <u>Brachionis plicatilis</u> (O.F.Müller)". |
| F:13 | | "Publications of interest to the Mariculture Committee, 1982". |

Mariculture Cttee (ctd)

- F:14 E Cruz "Facteur de croissance inconnu de
Ref. Shellfish et J Guillaume la farine de Calmar pour la crevette
Cttee japonaise: localisation de ce
facteur".
- F:15 C Caceres-Martinez, "Utilisation de régimes purifiés
M Cadena-Roa et pour le turbot (Scophthalmus
R Métailler maximus) et la sole (Solea
vulgaris)".
- F:16 N Devauchelle "Résistance au froid des oeufs de
et S Huelvan la sole (Solea solea) et de bar
(Dicentrarchus labrax)".
- F:17 N Devauchelle "Reproduction en captivité du
rouget (Mullus surmuletus)".
- F:18 R I Saunders "Canadian genetic studies relevant
to aquaculture".
- F:19 A L S Munro "An exocrine pancreas disease of
et al. farmed Atlantic salmon in Scotland".
- F:20 J G Støttrup "Cultivation technique for producing
Ref. Biol.Oceanogr. and P Munk copepods as food for fish larvae".
Cttee
- F:21 Withdrawn.
- F:22 P Scherrer et "Effets de la température sur la
J Person-Le croissance du turbot (Schophthalmus
Ruyet maximus) entre 3 et 20 G".
- F:23 "Report of the Working Group on
Ref. MEQC Pathology and Diseases in Marine
Organisms, Lisbonne, Portugal,
18-22 April 1983". (E+F)
- F:24 I Huse, "Intensive production of cod fry by
I Opstad systems and results so far".
and P Jensen
- F:25 B Braaten, "Preliminary feeding experiments
K E Gulbrandsen with dry pelleted feed for cod fry".
and E Lied
- F:26 B Braaten "Pollution problems in Norwegian
Ref. MEQC et al. fish farming".
- F:27 "Report of the Working Group on
Ref. MEQC, Introductions and Transfers of
Shellfish and Marine Organisms, Bergen, Norway,
Anacat Cttees 10-13 May 1983".

Mariculture Cttee
Reference Papers (ctd)

E:10 MEQC	J E Thain and M J Waldock	"The effect of suspended sediment and bis (Tributyl tin) oxide on the growth of <u>Crassostrea gigas</u> spat".
E:21 MEQC	H Rosenthal	"Summary report on the outcome of the 'EIFAC Workshop on Fish-Farm Effluents'".
E:22 MEQC	?	"Effects of coastal cage farms on water quality in protected bays of Japan".
E:23 MEQC	G Peters, R Hoffman and L Jørgensen	"Gill and fin lesions in rainbow trout from aquaculture units in fresh and brackish waters".
E:27 MEQC	J Ryther	"Use of aquatic plants to improve water quality of aquaculture effluents".
E:33 MEQC	T Dunne, J O Mahoney and M Parker	"Investigations on algal blooms in relation to a mariculture project in Dunmanus Bay, Ireland, 1982".
G:24 Demersal Fish Cttee	E Moksness	"Spawning of haddock (<u>Melanogrammus aeglefinus</u>) in captivity. New experiments in 1983".
K:3 Shellfish Cttee	A E Howard	"The behaviour of hatchery-reared juvenile lobsters (<u>Homarus gammarus</u>) released and observed by divers".
K:37 Shellfish Cttee	J Mason	"The 4th Pectinid Workshop, Aberdeen, May 1983".
K:47 Shellfish Cttee	N Svennevig and P Sand Kristensen	"Shellfish growing in the Isefjord. A new Danish enterprise in coastal fisheries".
L:33 Biol.Oceanogr. Cttee	P Munk and H Rosenthal	"Variability in the size of herring larvae at hatching - influence of egg deposition patterns and parental fish".
M:14 Anacat Cttee	V A Pepper, T Nicholls and N P Oliver	"Atlantic salmon fry-rearing experiments in Newfoundland during 1982".
M:16 Anacat Cttee	A Siwicki	"Results of testing a new anaesthetic for salmonids".
M:18 Anacat Cttee	M Holm <u>et al.</u>	"Ultrasonic tracking of Atlantic salmon smolts in a Norwegian fjord system. Vertical and horisontal migrations".

G - DEMERSAL FISH COMMITTEE

- G:1 Administrative Report.
- G:2 "Report of the Redfish (Sebastes mentella, Sebastes marinus) Ageing Workshop, Bremerhaven. 14-18 February 1983".
- G:3 "Report on the Joint NAFO/ICES Study Group on Biological Relationships of the West Greenland and Irminger Sea Redfish Stocks, Copenhagen, 21-25 February 1983".
- G:4 "Report of the ad hoc Working Group on the Feasibility of a Sole Egg Survey in 1984".
- G:5 J Dann "Fecundity estimates of Norway pout Trisopterus esmarkii taken on ICES Young Fish Surveys in 1979 and 1980".
- G:6 R J Boyd "The feeding of cod in the northwest Irish Sea".
- G:7 H M Krug "Preliminary studies of the blackspot seabream, Pagellus bogaraveo (Brünnich, 1768) in Azorean waters".
- G:8 C T Macer "Changes in growth of North Sea cod and their effect on yield assessments".
- Ref. Pelagic Fish and Baltic Fish Cttees
G:9 J G Pope and J G Shepherd "A comparison of the performance of various methods for tuning VPAs using effort data".
- G:10 R Goñi "Growth studies of European hake (Merluccius merluccius) from the the northwest African Shelf".
- G:11 Withdrawn.
- G:12 J T Anderson "Early life history aspects of redfish (Sebastes sp.) on Flemish Cap".
- G:13 B W Jones "An assessment correcting for the effects of migration of young saithe from the Norwegian Sea (Division IIa) to the North Sea (Division IVa)".
- G:14 L Woolner and J G Pope "English North Sea groundfish surveys 1977-81: a preliminary analysis".

Demersal Fish Cttee (ctd)

G:15	J Dalen <u>et al.</u>	"Preliminary report of the Norwegian investigations on young cod and haddock in the Barents Sea during the winter 1983".
G:16		Withdrawn.
G:17		Withdrawn.
G:18	H Marques da Silva	"Preliminary studies of the exploited stock of kitefin shark <u>Scymnorhinus licha</u> (Bonnaterre, 1788) in the Azores".
G:19 Ref. Fish Capture Cttee	A I Treschev <u>et al.</u>	"Possible consequences of the change of the selection range for cod and haddock fishery in the North-East Atlantic".
G:20	G P Mazhirina	"On the state of the reproductive system of myctophid fish <u>Noto-scopelus elongatus kroeyeri</u> in spring-summer".
G:21	N I Lebed' <u>et al.</u>	"Some results of cod tagging in the Barents Sea in 1966-82".
G:22	T V Antipova and T B Nikiforova	"Some data on nutrition of thorny skate <u>Raja radiata</u> Donovan in the Barents Sea".
G:23	L M Shestova and E G Iukmanov	"Biological substantiation of redfish fishery in the Barents Sea".
G:24 Ref. Mariculture Cttee	E Moksness	"Spawning of haddock (<u>Melanogrammus aeglefinus</u>) in captivity. New experiments in 1983".
G:25	W Weber and F Lamp	"Discarding of cod in the German Bight by fishermen of the Federal Republic of Germany".
G:26	A C Fariña Pérez	"Age and growth of the Galician Shelf horse mackerel (<u>Trachurus trachurus</u> L.)".
G:27	P Sánchez, B Morales and B Martín	"The mullets (<u>Mullus surmuletus</u> L. 1758, <u>M barbatus</u> L. 1758) of the Catalan coast: biological and fishing aspects".
G:28	S A Schopka, B E Steinarsson and E Jónsson	"Groundfish surveys in Icelandic waters in spring and autumn 1982 and spring 1983".
G:29 Ref. Pelagic Fish Cttee	S Ehrlich	"Stock assessments of haddock, blue whiting and greater silver smelt on Rockall Bank".

Demersal Fish Cttee (ctd)

- G:30 H J L Heessen "Distribution and abundance of young cod and whiting in the southeastern North Sea in the period 1980-82".
- G:31 A Rijnsdorp, F van Lent and K Groeneveld "Fecundity and the energetics of reproduction and growth of North Sea plaice (Pleuronectes platessa L.)".
- G:32 N Daan "Preliminary report on the ICES Young Fish Survey 1983: Roundfish".
- G:33 A Hysten and C J Rørvik "Estimating the maturity ogive for North-East Arctic cod by a modified mesh assessment model".
- G:34 K Randa and O M Smedstad "Preliminary report of the Norwegian groundfish survey at Bear Island and West Spitsbergen in the autumn 1982".
- G:35 "Preliminary report on the international 0-group fish survey in the Barents Sea and adjacent waters in August-September 1983".
Ref. Pelagic Fish Cttee
- G:36 Withdrawn.
- G:37 O R Godø, O Nakken, A Rakness and K Sunnanå "Acoustic estimates of spawning cod off Lofoten and Møre in 1983".
Ref. Fish Capture Cttee
- G:38 F Sánchez "Biology and fishery of the red sea-bream (Pagellus bogaraveo B.) in Sub-areas VI, VII and VIII of ICES".
- G:39 E Moksness "Sexual experience in cod (Gadus morhua L.) and haddock (Melano-grammus aeglefinus L.)".
- G:40 H Rehbein "Differentiation of redfishes from the Northeast Atlantic (Sebastes marinus L., S. mentella Travin, S. viviparus Krøyer and Helicolenus dactylopterus d. Delaroche 1809) by isoelectric focusing of sarco-plasmic proteins".
Ref. MEQC
- G:41 J-E Eliassen "Occurrence, gonad development and age distribution of the roughhead grenadier (Macrourus berglax Lacepède) (Gadiformes, Macrouridae) along the continental slope of northern Norway".

Demersal Fish Cttee (ctd)

- G:42 J-E Eliassen "Depth distribution of roughhead grenadier (Macrourus berglax Lacepède) in relation to hydrographical conditions along the continental slope of northern Norway".
- G:43 J-E Eliassen "Distribution and abundance of the roundnose grenadier (Coryphaenoides rupestris Gunnerus) (Gadiformes, Macrouridae) in northern and mid-Norway".
- G:44 A M Caramelo "Results of the young hake surveys in Portuguese waters - October-November 1981/82".
- G:45 F Cardador "Indices of abundance from ground-fish surveys in the Portuguese continental coast (Division IXa) during 1979-82".
- G:46 P Berrien "Silver hake, Merluccius bilinearis, egg census and adult population estimate for 1979 in waters off Eastern United States".
- G:47 M J Silverman "Distribution, abundance and production estimates of yellowtail flounder, Limanda ferruginea, off northeastern United States, 1977-1981".
- G:48 T W McKenney "Distribution and abundance of Merluccius albidus larvae in the shelf waters off the northeastern United States, 1977-81".
- G:49 R K Mayo,
U B Dozier
and S H Clark "Virtual population analysis of red-fish, Sebastes fasciatus, in the Gulf of Maine - Georges Bank region".
- G:50 W J Overholtz "Long-term responses of the demersal fish assemblages of Georges Bank".
- G:51 I Olaso
and P Pereda "The angler-fish (Lophius piscatorius L. and L. budegassa Spinola) in the European North Atlantic coast".
- G:52 H Gislason "A preliminary estimate of the yearly intake of fish by saithe in the North Sea".
Ref. Biol.Oceanogr.
Cttee
- G:53 C Le Bec "Fécondité de la sole Solea vulgaris (Quensel, 1806) du golfe de Gascogne".

Demersal Fish Cttee (ctd)

G:54	J Lleonart, J Salat and E Macpherson	"Effect of the cannibalism in a hake population".
G:55	B Mesnil	"Indices d'abondance des juvéniles de poissons plats devant les côtes françaises de Manche est et Mer du Nord. Résultats des campagnes D.Y.F.S. 1977 à 1982".
G:56	J Magnússon	"The Irminger Sea - oceanic stock redfish. 'Spawning' and 'Spawning area'".
G:57	A Hysten and O Nakken	"Stock size of North-East Arctic cod estimates from survey data 1982/83".
G:58	J R G Hislop	"The preliminary results of the international O-group gadoid survey in the North Sea in 1983".
G:59	D W Armstrong, J R G Hislop, A P Robb and M A Brown	"A preliminary report on the analysis of the whiting stomachs collected during the 1981 North Sea Stomach Sampling Project".
G:60 Ref. Fish Capture Cttee	R S Bailey, D Galbraith, R J Hutcheon and M Walsh	"Experimental fishing for Norway pout using a horizontally-divided trawl".
G:61	N Daan	"Analysis of the cod samples collected during the 1981 Stomach Sampling Project".
G:62		"Report of the International Gadoid Survey Working Group, IJmuiden, 6-12 July 1983".
G:63	W Dekker	"An application of the Andersen consumption model in estimating prey size preference of North Sea cod".
G:64		Withdrawn.
G:65 Ref. Baltic Fish Cttee	A Temming	"On the stock situation of common dab (<u>Limanda limanda</u>) in the Belt Sea".
G:66	G Haunschild, B Vaske and C Nagel	"On the maturity and sex ratio of redfish (<u>S. mentella</u>) in the North-east Arctic".
G:67		Withdrawn.

Demersal Fish Cttee (ctd)

Reference Papers to the Demersal Fish Committee

B:6 Fish Capture Cttee	H Bohl	"Selection of cod by bottom trawl cod-ends in the German Bight".
B:8 Fish Capture Cttee	Yu.V.Kadil'nikov	"Theoretical premises of influence of angle of attack of cable, netting and other parameters on size-specific selectivity of fishing trawls".
B:10 Fish Capture Cttee	S I Saranchov <u>et al.</u>	"Experimental verification of the dependence of echo signals intensity of fish concentration density".
B:11 Fish Capture Cttee	I L Kalikhman	"Indicatrices of back acoustic scattering by fish: their account in echo surveys".
B:12 Fish Capture Cttee	Z M Berdichevsky and V S Mamylov	"The effect of the TVG function precision on the acoustic estimation of fish biomass (exemplified by the international survey of blue whiting in the Norwegian Sea in August 1982)".
B:13 Fish Capture Cttee	K G Konstantinov <u>et al.</u>	"Data for substantiation of the trawl bag mesh size used during the specia- lized redfish, <u>Sebastes mentella</u> , fishery".
B:14 Fish Capture Cttee	E S Borisenko	"Accounting of excess sound attenuation in echo survey".
B:16 Fish Capture Cttee	F A van Beek, A D Rijnsdorp and P I van Leeuwen	"Results of the mesh selection experiments on sole and plaice with commercial beam trawl vessels in the North Sea in 1981".
B:18 Fish Capture Cttee	T Jacobsen	"Selectivity experiments with Danish seine on cod and haddock in northern Norway in 1982".
B:19 Fish Capture Cttee	J Dalen and O Nakken	"On the application of the echo- integration method".
B:25 Fish Capture Cttee	J H B Robertson	"Square mesh codend selectivity experiments on whiting <u>Merlangius merlangus</u> (L.) and haddock (<u>Melanogrammus aeglefinus</u> (L.))".
B:31 Fish Capture Cttee	Å Bjordal	"Effect of different long-line baits (mackerel, squid) on catch rates and selectivity for tusk and ling".

Demersal Fish Cttee

Reference Papers (ctd)

C:4 Hydrography Cttee	G van de Kamp	"Long-term variations in residual currents in the southern North Sea".
D:5 Statistics Cttee	H Lassen	"Estimation of stock size and fishing mortality when data on catches and on stock abundance are available".
D:12 Statistics Cttee	S A Murawski, M P Sissenwine and J E Kirkley	"Optimal effort allocation among competing mixed-species fisheries, subject to fishing mortality constraints".
D:13 Statistics Cttee	J M Terry, J W Balsiger and R J Marasco	"Economic and biological measures of the status of stocks".
D:14 Statistics Cttee	J P Troadec et A Maucorps	"Evolution des méthodes d'aménagement des pêcheries avec le nouveau droit de la mer".
D:15 Statistics Cttee	D W Armstrong and R M Cook	"A proposal for the use of catch per unit effort data for assessing terminal F in VPA".
D:16 Statistics Cttee	R C Hennemuth and S P Shepherd	"Comparison of density distributions of marine resources".
D:17 Statistics Cttee	J Kettunen and M Hildén	"The extended Kalman filter approach to VPA".
D:18 Statistics Cttee	D S Vaughan	"Application of statistical theory to stock assessment of menhaden".
D:19 Statistics Cttee	A J Chester and J J Waters	"Two stage sampling for age distribution in the Atlantic menhaden fishery with comments on optimal survey design".
D:20 Statistics Cttee	R J Magnus and K G Magnusson	"Existance and uniqueness of solutions to the multispecies VPA equations".
D:22 Statistics Cttee	J Hoenig and W Lawing	"Using the K oldest ages in a sample to estimate the total mortality rate".
D:23 Statistics Cttee	J Hoenig, W Lawing and N Hoenig	"Using mean age, mean length, and median length data to estimate the total mortality rate".
D:24 Statistics Cttee	J Hoenig and W Lawing	"Using incomplete tagging data to estimate the total mortality rate when the sex ratio is skewed".
D:25 Statistics Cttee	N Hoenig and R Hanumara	"Statistical considerations in fitting seasonal growth models for fishes".
E:45 Poster MEQC	B Berland, H Möller and K Anders	"Identification of larval and adult nematodes in fish from the NE Atlantic".

Demersal Fish Cttee
Reference Papers (ctd)

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| E:55
MEQC | A Longwell
<u>et al.</u> | "Frequencies of micronuclei in mature and immature erythrocytes of fish as an estimate of chromosome mutation rates - results of field surveys on windowpane flounder, winter flounder and Atlantic mackerel". |
| H:43
Pelagic Fish Cttee | E D Houde,
C Grall and
S A Berkeley | "Population parameter estimates for three shoaling pelagic fishes in the eastern Gulf of Mexico". |
| K:9
Shellfish Cttee | K Brander | "Application of a multispecies steady state yield model to the cod and <u>Nephrops</u> stocks in the Irish Sea". |
| K:20
Shellfish Cttee | E Nierynck
and F Redant | "Caridean shrimps in the food of demersal fish off the Belgian coast. 3. Pleuronectiformes". |
| K:23
Shellfish Cttee | R P Briggs | "The discarded by-catch of the Northern Ireland <u>Nephrops</u> fishery". |
| L:8
Biol.Oceanogr.
Cttee | H W van der Veer,
H van Garderen
and J J Zijlstra | "Impact of coelenterate predation on larval fish stocks in the coastal zone of the southern North Sea". |
| L:9
Biol.Oceanogr.
Cttee | I Ya.Ponomarenko | "Long-term dynamics of bottom-dwelling young cod survival connected with feeding and temperature conditions". |
| L:24
Biol.Oceanogr.
Cttee | K Sherman
<u>et al.</u> | "Ichthyoplankton and fish recruitment studies in large marine ecosystems". |
| L:26
Biol.Oceanogr.
Cttee | V Christensen
<u>et al.</u> | "A combined fish larval, phytoplankton and oceanographic survey in the Skagerrak and the Kattegat in April 1983". |
| L:28
Biol.Oceanogr.
Cttee | K Sherman
<u>et al.</u> | "Spawning strategies of fishes in relation to circulation, phytoplankton production, and pulses in zooplankton off the NE United States". |
| L:32
Biol.Oceanogr.
Cttee | R Jones and
E W Henderson | "Nutrient recycling and ecosystem models". |
| L:39
Biol.Oceanogr.
Cttee | V Øiestad | "Predation on fish larvae as a regulatory force illustrated in enclosure experiments with large groups of larvae". |
- See also: Assess:1 (with Addendum), 2, 6, 7, 8, 11, 12, 16, 17, 18, 19, 20 and 21.

H - PELAGIC FISH COMMITTEE

H:1		Administrative Report.	
H:2	R J Wood and P O Johnson	"English acoustic surveys of herring in the west central North Sea during August 1982".	
H:3	R J Wood and P O Johnson	"English acoustic surveys of herring in the Southern Bight and Eastern Channel".	
H:4	Ref. Fish Capture Cttee	"Report of the Blue Whiting Planning Group for the Coordinated Acoustic Survey 1983, Copenhagen, 2-3 March 1983".	
H:5	Ref. Fish Capture Cttee	"Report of the International Acoustic Survey on Blue Whiting in the Norwegian Sea, August 1983".	
H:6	S J Lockwood	"Western mackerel yield, stock and recruitment".	
H:7	S J Lockwood	"North Sea mackerel yield, stock and recruitment".	
H:8	S Ehrlich and R Schöne	"Gonad maturation and spawning of blue whiting (<u>Micromesistius poutassou</u>) in the Rockall Trough area in 1983".	
H:9	Ref. Biol. Oceanogr. Cttee	R J Wood and J H Nichols	"Further comparative data on herring larvae caught by English and Dutch high-speed plankton samplers, together with the results of a flume calibration of the Dutch sampler".
H:10	R J Wood	"Estimating recruitment to the Downs herring stock from indices of 0-group abundance on the English east coast".	
H:11	A C Burd and P O Johnson	"The assessment of the North Sea sprat stock".	
H:12		"Report of the 1983 Planning Group on ICES-coordinated Herring and Sprat Acoustic Surveys".	
H:13		"Publications of interest to the Pelagic Fish Committee, 1982".	
H:14	M Giedz	"Polish exploratory fishing and biological investigations on blue whiting in the Northeast Atlantic in 1982".	

Pelagic Fish Cttee (ctd)

- H:15 M Giedz "Length at first spawning as an indicator of different spawning populations of blue whiting in the NE Atlantic".
- H:16 J Kalinowski and T B Linkowski "Hydroacoustic observations, *Maurollicus muelleri* (Sternoptychidae) over R.S.A. and Discovery seamounts (South Atlantic)".
- H:17 T B Linkowski "Some aspects of the biology of *Maurollicus muelleri* (Sternoptychidae)".
- H:18 "Report of the ICES Planning Group on a Herring Tagging Experiment, Copenhagen, 19 March 1983".
- H:19 A Corten "Report on the international young fish survey in the North Sea, Skagerrak and Kattegat in 1983. Herring".
- H:20 Ref. Biol.Oceanogr Cttee A Corten "Predation on herring larvae by the copepod *Candacia armata*".
- H:21 V A Ermolchev et al. "Soviet investigations of blue whiting in spring and summer 1982".
- H:22 N A Isaev and A V Shevchenko "Seasonal migrations of blue whiting in the Norwegian Sea in 1978-82".
- H:23 N V Plekhanova and M S Soboleva "Feeding conditions and nutrition features of the Norwegian Sea blue whiting in summer 1981/1982".
- H:24 L D Panasenکو and V N Nesterova "Stomach fullness and condition factor of capelin under different food supply".
- H:25 E I Seliverstova "Soviet mackerel investigations in the Norwegian Sea in summer 1980-82".
- H:26 A V Shevchenko and N A Isaev "Year-to-year variations of blue whiting distribution in the Norwegian Sea in spring-summer 1978-1982 due to hydrographic conditions".
- H:27 V P Ponomarenko and G I Luka "Seasonal and daily vertical migrations and structure of capelin concentrations in the Barents Sea".
- H:28 P O Johnson et al. "Report on echo-integrator surveys for sprat undertaken in the North Sea during the 1982-83 winter season. (With a re-evaluation of data from earlier surveys)".

Pelagic Fish Cttee (ctd)

- H:29 W A Dawson "A preliminary analysis of mackerel (Scomber scombrus L.) otolith (L₁) measurements".
- H:30 R J R Grainger "Managing the recovery of the Celtic Sea and Division VIIj herring stock".
- H:31 R J R Grainger, E Barnwall and A Cullen "Herring larval surveys in the Celtic Sea and Division VIIj in 1982/83".
- H:32 Withdrawn.
- H:33 S Mehl and T Westgård "Gastric evacuation rate in mackerel (Scomber scombrus L.)".
- H:34 S Mehl and T Westgård "The diet and consumption of mackerel in the North Sea (a preliminary report)".
- H:35 H Bjørke "Spawning of blue whiting (Micro-mesistius poutassou) in Norwegian waters".
- H:36 O Halldórsson "On the behaviour of the Icelandic summer spawning herring (C.harengus L.) during echo surveying and depth dependence of acoustic target strength in situ".
- H:37 H Vilhjálmsón and P Reynisson "Acoustic abundance index of 0-group capelin in the Iceland-Greenland area".
- H:38 H Vilhjálmsón and Jutta V Magnússon "Report on the 0-group fish survey in Icelandic and East-Greenland waters, August 1983".
- H:39 M M Martins, I M Jorge and L S Gordo "On the maturity, morphological characteristics and growth of Scomber japonicus Houttuyn 1780, of the west continental coast of Portugal".
- H:40 M F Borges "Recruitment indices of horse mackerel (Trachurus trachurus L.) based on young fish survey in the Portuguese waters (Division IXa) in 1982".
- H:41 M M Martins and L S Gordo "On the fecundity of mackerel (Scomber scombrus) from the west continental coast of Portugal".
- H:42 C A Dias "Results of the Spanish-Portuguese joint acoustic survey for pilchard (Divisions VIIIc and IXa, ICES), August/September 1982".
- Ref. Fish Capture Cttee et al.

Pelagic Fish Cttee (ctd)

H:43 Ref. Demersal Fish Cttee	E D Houde, C Grall and S A Berkeley	"Population parameter estimates for three shoaling pelagic fishes in the eastern Gulf of Mexico".
H:44 Ref. Fish Capture Cttee	N Diner et R Le Men	"Evaluation acoustique des stocks de poissons pélagiques dans la partie sud du Golfe de Gascogne an avril- mai 1981. Résultats préliminaires".
H:45	S A Iversen and G R Adoff	"Fecundity observations on mackerel from the Norwegian coast".
H:46	S A Iversen and A Eltink	"Spawning, egg production and stock size of North Sea mackerel in 1982".
H:47	M Sinclair and M J Tremblay	"A new hypothesis to account for the timing of spawning of herring populations".
H:48	M Walsh	"Investigations on the fecundity of North Sea mackerel".
H:49	M Walsh, P Hopkins and P Rankine	"Results of the North Sea mackerel egg surveys in 1982".
H:50		Withdrawn.
H:51	M R Heath and D L Baird	"Recruitment and seasonal migrations of herring to the west of Scotland".
H:52	R S Bailey <u>et al.</u>	"Report on the 1983 herring acoustic survey in the northwestern North Sea".
H:53	S Holzlöhner <u>et al.</u>	"On the species composition and length/age structure of the most important pelagic fish species off Mauretania in 1982".
H:54 Ref. Hydrography Cttee	Jens Smed	"Bottom temperature and salinity of the North Sea during the inter- national young fish survey 1983".
H:55		"Report of the Workshop on Otolith Reading of Blue Whiting, Tórshavn, 14-17 June 1983".
H:56	H-W Halbeisen	"Fish larval communities west of Ireland in spring".
H:57	W Schöfer	"Report on the international surveys of herring larvae in the North Sea and adjacent waters in 1982/83".

Pelagic Fish Cttee (ctd)

H:58	A Dumke	"Feeding investigations of blue whiting (<u>Micromesistius poutassou</u>) in the Norwegian Sea".
H:59	E McArdle	"Fecundities of winter spawning herring off the northwest coast of Ireland".
H:60	J Molloy	"The occurrence of winter and spring spawning herring off the northwest coast of Ireland".
H:61 Ref. Fish Capture Cttee	L Midttun	"Report of the Norwegian acoustic survey on blue whiting, April 1983".
H:62		Withdrawn.
H:63 Ref. Hydrography and Biol.Oceanogr. Cttees		"Report on the joint Soviet-Icelandic investigations on hydrobiological conditions in the Norwegian Sea and Icelandic waters in May-June 1983".

Reference Papers to the Pelagic Fish Committee

B:10 Fish Capture Cttee	S I Saranchov <u>et al.</u>	"Experimental verification of the dependence of echo signals intensity of fish concentration density".
B:11 Fish Capture Cttee	I L Kalikhman	"Indicatrixes of back acoustic scattering by fish: their account in echo surveys".
B:12 Fish Capture Cttee	Z M Berdichevsky and V S Mamylov	"The effect of the TVG function precision on the acoustic estimation of fish biomass (exemplified by the international survey of blue whiting in the Norwegian Sea in August 1982)".
B:14 Fish Capture Cttee	E S Borisenko	"Accounting of excess sound attenuation in echo survey".
B:15 Fish Capture Cttee	A Eltink	"Mesh selection results for mackerel and horse mackerel"
B:19 Fish Capture Cttee	J Dalen and O Nakken	"On the application of the echo-integration method".
B:23 Fish Capture Cttee	J I Edwards and F Armstrong	"Target strength measurements on herring, sprat and mackerel".

Pelagic Fish Cttee
Reference Papers (ctd)

B:24 Fish Capture Cttee	S T Forbes and E J Simmonds	" <u>In situ</u> target strength measurements".
B:25 Fish Capture Cttee	J H B Robertson	"Square mesh codend selectivity experiments on whiting <u>Merlangius merlangus</u> (L.) and haddock <u>Melanogrammus aeglefinus</u> (L.)".
B:33 Fish Capture Cttee	R Shotton	"Linearity of echo response from herring schools".
C:4 Hydrography Cttee	G van de Kamp	"Long-term variations in residual currents in the southern North Sea".
D:5 Statistics Cttee	H Lassen	"Estimation of stock size and fishing mortality when data on catches and on stock abundance are available".
D:13 Statistics Cttee	J M Terry, J W Balsiger and R J Marasco	"Economic and biological measures of the status of stocks".
D:14 Statistics Cttee	J P Troadec et A Maucorps	"Evolution des méthodes d'aménagement des pêcheries avec le nouveau droit de la mer".
D:16 Statistics Cttee	R C Hennemuth and S P Shepherd	"Comparison of density distributions of marine resources".
D:17 Statistics Cttee	J Kettunen and M Hildén	"The extended Kalman filter approach to VPA".
D:18 Statistics Cttee	D S Vaughan	"Application of statistical theory to stock assessment of menhaden".
D:19 Statistics Cttee	A J Chester and J J Waters	"Two stage sampling for age distribution in the Atlantic menhaden fishery with comments on optimal survey design".
D:20 Statistics Cttee	R J Magnus and K G Magnusson	"Existence and uniqueness of solutions to the multispecies VPA equations".
D:22 Statistics Cttee	J Hoenig and W Lawing	"Using the K oldest ages in a sample to estimate the total mortality rate".
D:23 Statistics Cttee	J Hoenig, W Lawing and N Hoenig	"Using mean age, mean length, and median length data to estimate the total mortality rate".
D:24 Statistics Cttee	J Hoenig and W Lawing	"Using incomplete tagging data to estimate the total mortality rate when the sex ratio is skewed".
D:25 Statistics Cttee	N Hoenig and R Hanumara	"Statistical considerations in fitting the seasonal growth models for fishes".

Pelagic Fish Cttee

Reference Papers (ctd)

- | | | |
|---------------------------------|---|--|
| E:45
Poster
MEQC | B Berland,
H Möller
and K Anders | "Identification of larval and adult
nematodes in fish from the NE
Atlantic". |
| E:55
MEQC | A Longwell
<u>et al.</u> | "Frequencies of micronuclei in
mature and immature erythrocytes of
fish as an estimate of chromosome
mutation rates - results of field
surveys on windowpane flounder,
winter flounder and Atlantic
mackerel". |
| G:9
Demersal Fish
Cttee | J G Pope and
J G Shepherd | "A comparison of the performance
of various methods for tuning VPAs
using effort data". |
| G:29
Demersal Fish
Cttee | S Ehrlich | "Stock assessments of haddock, blue
whiting and greater silver smelt
on Rockall Bank". |
| G:35
Demersal Fish
Cttee | | "Preliminary report on the inter-
national O-group fish survey in the
Barents Sea and adjacent waters in
August-September 1983". |
| K:23
Shellfish Cttee | R P Briggs | "The discarded by-catch of the
Northern Ireland <u>Nephrops</u> fishery". |
| L:8
Biol.Oceanogr.
Cttee | H W van der Veer,
H van Garderen
and J J Zijlstra | "Impact of coelenterate predation
on larval fish stocks in the coastal
zone of the southern North Sea". |
| L:24
Biol.Oceanogr.
Cttee | K Sherman
<u>et al.</u> | "Ichthyoplankton and fish recruitment
studies in large marine ecosystems". |
| L:26
Biol.Oceanogr.
Cttee | V Christensen
<u>et al.</u> | "A combined fish larval, phyto-
plankton and oceanographic survey
in the Skagerrak and the Kattegat
in April 1983". |
| L:27
Biol.Oceanogr.
Cttee | V Christensen | "Predation by sandeel on herring
larvae". |
| L:28
Biol.Oceanogr.
Cttee | K Sherman
<u>et al.</u> | "Spawning strategies of fishes in
relation to circulation, phyto-
plankton production, and pulses
in zooplankton off the NE United
States". |
| L:32
Biol.Oceanogr.
Cttee | R Jones and
E W Henderson | "Nutrient recycling and ecosystem
models". |

Pelagic Fish Cttee

Reference Papers (ctd)

L:33
Biol.Oceanogr.
Cttee

P Munk and
H Rosenthal

"Variability in the size of herring larvae at hatching - influence of egg deposition patterns and parental fish".

L:34
Biol.Oceanogr.
Cttee

T Kjørboe
and P Munk

"Growth and feeding of herring larvae compared to the amount of yolk at hatching".

L:35
Biol.Oceanogr.
Cttee

J G Støttrup

"The transition period from internal to external feeding in herring larvae".

See also: Assess:3, 4, 5, 7, 9, 14, 17 and 21

J - BALTIC FISH COMMITTEE

- J:1 Administrative Report.
- J:2 "Publications of interest to the Baltic Fish Committee, 1982".
- J:3 B Draganik and J Kuczyński "Garfish from the Puck Bay".
- J:4 O Wrzesiński "Changes in the growth rate of the herring coastal spring spawners in the Gulf of Gdańsk".
- J:5 J Horbowy "The modelling of the coastal spring herring growth and modified yield per recruit curve".
- J:6 E Ojaveer "On stock/recruitment relationship in herring populations in north-eastern Baltic".
- J:7 S A Khoziosky et al. "The dynamics of mortality components in Baltic sprat in Sub-divisions 26 and 28".
- J:8 R Aps et al. "Microstructure of otoliths of Baltic herring and sprat young stages".
- J:9 O Hagström et al. "Acoustic estimates of the herring and sprat stocks in Baltic proper, the Bothnian Sea and the Gulf of Bothnia 1982. Preliminary results".
- J:10 J Elwertowski and A Orlowski "Distribution of juvenile sprat in May 1983 in the southern Baltic".
- J:11 G Kühlmorgen-Hille "Infestation with larvae of Anisakis spec. as a biological tag of herring in Sub-division 22, western Baltic Sea".
- J:12 E Steffensen and O Bagge "Growth of cod in different parts of the Baltic and the Kattegat".
- J:13 F Thurow "Length versus gutted weight, versus round weight in cod of the Kiel Bay".
- J:14 Withdrawn.
- J:15 O Bagge "Danish discards in the Baltic".
- J:16 O Bagge "Migrations of transplanted cod".
- J:17 M Berner and G Sager "Differences of growth in length and weight for the sexes of cod in the Baltic".

Baltic Fish Cttee (ctd)

J:18	G Sager and M Berner	"Fitting several growth functions to length and weight data for cod in the Baltic".
J:19	R Oeberst and N Brielmann	"The use of collective sampling in the Greifswalder Bodden during the herring larvae survey in 1982".
J:20	N Schulz and B Vaske	"Results of bottom trawl surveys conducted in the Mecklenburg Bay and in the Arkona Basin since 1978".
J:21	R Parmanne and V Sjöblom	"Differences in the state of herring stocks in the northern and southern part of the Gulf of Finland".
J:22	E Aro and V Sjöblom	"The abundance of Baltic herring and sprat according to echo counting in the seas around Finland in 1982".
J:23	E Aro, V Sjöblom and R Hudd	"The abundance of 0-group Baltic herring off the coast of Finland in 1979-82".
J:24	P Oulasvirta, J Rissanen and R Parmanne	"Spawning of Baltic herring (<u>Clupea harengus membras</u>) in the western part of the Gulf of Finland".
J:25	E Aro and V Sjöblom	"Cod off the coast of Finland in 1974-82".
J:26	E Aro and V Sjöblom	"The migration of flounder in the northern Baltic Sea".
J:27	R Hudd	"Assessment of smelt (<u>Osmerus eperlanus</u> (L.)) stocks in the Vaasa Archipelago, Gulf of Bothnia".
J:28	R Hudd and E Aro	"By-catch of 0-group smelt in the Isaacs-Kidd mid-water trawl herring catch off the coast of Finland in 1980-82".
J:29	R Hudd, M Hildén and I Urho	"Problems in sampling fish larvae in shallow waters".

Reference Papers to the Baltic Fish Committee

D:5 Statistics Cttee	H Lassen	"Estimation of stock size and fishing mortality when data on catches and on stock abundance are available".
D:17 Statistics Cttee	J Kettunen and M Hildén	"The extended Kalman filter approach to VPA".

Baltic Fish Cttee

Reference Papers (ctd)

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| D:18
Statistics Cttee | D S Vaughan | "Application of statistical theory to stock assessment of menhaden". |
| D:19
Statistics Cttee | A J Chester
and J J Waters | "Two stage sampling for age distribution in the Atlantic menhaden fishery with comments on optimal survey design". |
| D:20
Statistics Cttee | R J Magnus
and K G Magnusson | "Existence and uniqueness of solutions to the multispecies VPA equations". |
| D:22
Statistics Cttee | J Hoenig
and W Lawing | "Using the K oldest ages in a sample to estimate the total mortality rate". |
| D:23
Statistics Cttee | J Hoenig,
W Lawing
and N Hoenig | "Using mean age, mean length and median length data to estimate the total mortality rate". |
| D:24
Statistics Cttee | J Hoenig
and W Lawing | "Using incomplete tagging data to estimate the total mortality rate when the sex ratio is skewed". |
| D:25
Statistics Cttee | N Hoenig and
R Hanumara | "Statistical considerations in fitting seasonal growth models for fishes". |
| G:9
Demersal Fish
Cttee | J G Pope and
J G Shepherd | "A comparison of the performance of various methods for tuning VPAs using effort data". |
| G:65
Demersal Fish
Cttee | A Temming | "On the stock situation of common dab (<u>Limanda limanda</u>) in the Belt Sea". |
| L:24
Biol.Oceanogr.
Cttee | K Sherman
<u>et al.</u> | "Ichthyoplankton and fish recruitment studies in large marine ecosystems". |
| L:28
Biol.Oceanogr.
Cttee | K Sherman
<u>et al.</u> | "Spawning strategies of fishes in relation to circulation, phytoplankton production, and pulses in zooplankton off the NE United States". |

K - SHELLFISH COMMITTEE

- K:1 + Add. Administrative Report.
- K:2 H Rost Martins "Biological studies of the exploited stock of the Mediterranean locust lobster, Scyllarides latus (Latreille, 1803) (Crustacea: Decapoda) in the Azores".
- Ref. Mariculture K:3 A E Howard "The behaviour of hatchery-reared Cttee juvenile lobsters (Homarus gammarus) released and observed by divers".
- K:4 R C A Bannister "Results of a recent minimum size et al. assessment for the fisheries for lobster, Homarus gammarus, in England and Wales".
- K:5 "Publications of interest to the Shellfish Committee, 1982".
- K:6 J H Nichols "Estimation of the stock size of et al. adult Nephrops from larvae surveys in the western Irish Sea in 1982".
- K:7 Kr Fr Wiborg "The squid, Todarodes sagittatus and I M Beck (Lamarck). Distribution and biology in northern waters, August 1982 - June 1983".
- Ref. Biol.Oceanogr. K:8 D J Symonds "The food of selected fish species on Cttee and J M Elson Nephrops grounds in the western Irish Sea".
- Ref. Demersal K:9 K Brander "Application of a multispecies steady Fish Cttee state yield model to the cod and Nephrops stocks in the Irish Sea".
- K:10 D B Bennett "Irish Sea Nephrops biometrics, with particular reference to tails".
- K:11 R Meixner "Overcrowding in cockles, Cardium edule, and its effects - a case study".
- Ref. Biol.Oceanogr. K:12 J A Lindley "Continuous plankton records: larvae Cttee of Nephrops norvegicus (L.) in the northwestern Irish Sea 1971-82".
- K:13 G Y Conan "Aerial survey of spatial distribution and D R Maynard of effort in lobster fishery of Southern Gulf of St. Lawrence, Canada".
- K:14 R Dijkema "Assessment of size, distribution and composition of a newly-developed stock of the European flat oyster (Ostrea edulis L.) in a stagnant salt water lake in the SW-Netherlands".

Shellfish Cttee (ctd)

- K:15 E A Dvinina and A Yu. Lysy "Abundance dynamics and larval drift of Pandalus borealis in the Norwegian and North Cape currents and the factors determining them".
- K:16 A. Yu. Lysy "Interpopulational relations of shrimp Pandalus borealis Krøyer in the Norwegian, Barents Seas and in the Spitsbergen area".
- K:17 G Teigsmark and P Øynes "Results of a stratified bottom trawl survey for shrimps (Pandalus borealis) in the Spitsbergen area in July 1982".
- K:18 P Sanchez "Bathymetric distribution of Cephalopods in the Catalan Sea".
- K:19 C Borremans and F Redant "In vitro experiments on the predation by the swimming crab, Macropipus holsatus, on brown shrimps, Crangon crangon".
- K:20 E Nierynck and F Redant "Caridean shrimps in the food of demersal fish off the Belgian coast. 3. Pleuronectiformes".
- Ref. Demersal Fish Cttee
- K:21 R Boddeke "The coast zone of Holland, a new Waddensea".
- Ref. MEQC
- K:22 R P Briggs "An evaluation of minimum size enforcement tools in the Northern Ireland Nephrops fishery".
- K:23 R P Briggs "The discarded by-catch of the Northern Ireland Nephrops fishery".
- Ref. Demersal and Pelagic Fish Cttees
- K:24 G P Ennis "Variation in annual growth in two Newfoundland lobster (Homarus americanus) populations in relation to temperature conditions".
- K:25 T C Borges "Distribution et biologie de Loligo vulgaris (Lamarck) dans la côte continentale Portugaise. Divisions IXa du CIEM".
- K:26 A R Cascalho and I Arrobas "Further contributions to the knowledge about biology and fishery of Parapenaeus longirostris (Lucas, 1846) of South Portuguese coast".
- K:27 M J Figueiredo and M Castro "Studies on the selectivity of Nephrops off the Portuguese coast".

Shellfish Cttee (ctd)

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| K:28 | M Alcaraz
and M Dominguez | "Planktonic larvae of lamellibranch molluscs in the Ria of Pontevedra (NW of Spain)". |
| K:29 | P Camus | "Résultats d'une opération de marquage d'araignée de mer (<u>Maia squinado</u> , Herbst) adulte en baie d'Audierne (Bretagne sud)". |
| K:30
Ref. Biol. Oceanogr
Cttee | J Martin | "Période d'éclosion des larves d'araignée (<u>Maia squinado</u> , Herbst) en baie d'Audierne (Bretagne sud) en 1979 et 1980". |
| K:31 | | Withdrawn. |
| K:32 | J W Ropes and
S A Murawski | "Maximum shell length and longevity in ocean quahogs <u>Arctica islandica</u> Linné". |
| K:33 | D S Pezzack | "Size frequency of commercial trap-caught lobsters (<u>Homarus americanus</u>) in the Canadian offshore lobster fishery". |
| K:34 | D S Pezzack
and D R Duggan | "The Canadian offshore lobster (<u>Homarus americanus</u>) fishery, 1971 to 1982". |
| K:35
Ref. Fish
Capture Cttee | F G Howard,
J Bailey
and A M Shanks | "Investigations into cod-end mesh selectivity of shrimp trawls". |
| K:36 | F G Howard
and W B Hall | "Some observations on the biometrics of <u>Nephrops norvegicus</u> (L.) in Scottish waters". |
| K:37
Ref. Mariculture
Cttee | J Mason | "The 4th Pectinid Workshop, Aberdeen, May 1983". |
| K:38
Ref. Fish
Capture Cttee | T R W Howell | "A comparison of the efficiencies of two types of Scottish commercial scallop dredge". |
| K:39 | | Withdrawn. |
| K:40 | D I Fraser | "Observations on the settlement of pectinid spat on the west coast of Scotland in 1982". |
| K:41 | | Withdrawn. |
| K:42 | N Bailey
and C J Chapman | "A comparison of density, length composition and growth of two <u>Nephrops</u> populations off the west coast of Scotland". |

Shellfish Cttee (ctd)

K:43	J A M Kinnear	"The effect of trap immersion time on the catch of lobsters in two Scottish fisheries".
K:44	E R Townsend and J M Worms	"Introduction of a new pectinid species (<u>Argopecten irradians irradians</u>) to the Gulf of St. Lawrence, Canada".
K:45	J Bertrand	"Distribution des tailles du homard (<u>Homarus gammarus</u> L.) le long des côtes bas-normandes".
K:46	P Øynes	"Norwegian investigations on the deep sea shrimp (<u>Pandalus borealis</u>) in the Barents Sea in April-May 1983 and in the Spitsbergen area in July 1983".
K:47 Ref. Mariculture Cttee	N Svennevig and P Sand Kristensen	"Shellfish growing in the Isefjord. A new Danish enterprise in coastal fisheries".

Reference Papers to the Shellfish Committee

B:21 Fish Capture Cttee	A J Blott <u>et al.</u>	"Development of a new research trawl for northern shrimp, <u>Pandalus borealis</u> , in the western Gulf of Maine".
B:29 Fish Capture Cttee	J P Hillis	"Experiment with a double cod-end <u>Nephrops</u> trawl".
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