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CONTRIBUTIONS TO BE PRESENTED AT THE STATUTORY MEETING

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GEN - GENERAL ASSEMBLY AND PAPERS OF GENERAL INTEREST

- Gen:1 "Observers' reports from cooperating organisations"
- Gen:2 "ICES activities in 1985/86"
- Gen:3 "Election of Committee Chairmen at the 74th Statutory Meeting" (E+F)
- Gen:4 "Oceanographic Data Centres in ICES Community. 1986 issue"
- Gen:5 "Advance Release of Tables 1-6 of Bulletin Statistique, Vol. 70, 1985"
- Gen:6 Withdrawn.
- Gen:7 "Report of the IREP Steering Group, Copenhagen, 25-27 June 1986"

DEL - DELEGATES DOCUMENTS

- Del:1* "Audited Accounts of the financial year 1984/85 with balance sheet at 31/10 1985"
- Del:2* "Preliminary report on administration for the year 1 November 1985 to 1 October 1986" "
- Del:3* "Reports on activities, 1986"
- Del:4* "Estimated accounts for the financial year 1985/86"
- Del:5* "Draft Budget for the financial year 1986/87" (E + F)
- Del:6* "Draft Forecast Budget for the financial year 1987/88" (E + F)
- Del:7* "Change in the Rules of Procedure" (E + F)
- Del:8* "Elections and appointments by the Council at the 74th Statutory Meeting" (E + F)
- Del:9* "Cooperation with the Commission the EEC"
- Del:10* "Cooperation with IOC in pollution activities"

FI - FINANCE COMMITTEE

Fi:1* Agenda for the Finance Committee

PUB - PUBLICATIONS COMMITTEE

Pub:1* Agenda for the Publications Committee.
Pub:2* "Review of publications"
Pub:3* "Sale of ICES publications during the last three
 years"
Pub:4* "Report from the Editors of the Journal du Conseil
 for the ICES year 1985-86"

REFERENCE PAPERS FOR THE PUBLICATIONS COMMITTEE

A:3* "Report of the meeting of the Programme Planning
 Group, ICES Headquarters, 29-30 May 1986"
A:4* "Further considerations of the future form of Annales
 Biologiques"
L:37 G Robinson "Plankton Identification Sheets, Editor's Report,
 1985/86"

A - CONSULTATIVE COMMITTEE

- A:1* Agenda for the Consultative Committee.
- A:2* "List of recommendations for scientific research
from assessment and related working group reports"
- A:3* "Report of the meeting of the Programme Planning
Ref.Pub Group, ICES Headquarters, 29-30 May 1986"
- A:4* "Further consideration of the future form of
Ref.Pub Annales Biologiques"

B - FISH CAPTURE COMMITTEE

<u>Code</u>	<u>Author</u>	<u>Title</u>
B:1		Report of Activities, 1985
B:2 Sess.U	K.G. Foote	"Digital representation of split-beam-transducer beam patterns"
B:3		Withdrawn.
B:4	E Dahm	"Mono- or multimono-choice of the right netting material according to physical properties"
B:5 Ref.H Sess.U	F Armstrong	"Target strength of sandeels"
B:6 Ref.G+H Sess.U	E J Simmonds	"Frequency dependence of herring and cod target strengths"
B:7		Withdrawn.
B:8 Sess.U	D N MacLennan and I Svellingen	"Simple calibration of a split-beam echosounder"
B:9 Ref.G+H Sess.W	R D Galbraith	"Full-scale instrumented gear trials with the ICES Young Fish Sampling Trawl (GOV) - FRV 'Scotia' - June 1985"
B:10		Withdrawn.
B:11	P A M Stewart	"Measurements of the headline heights of gill nets in tidal flows"
B:12 Ref.K Sess.V	J H B Robertson <u>et al.</u>	"Square and diamond mesh trawl codend selection trials on <u>Nephrops norvegicus</u> (L.)"
B:13 Ref.G Sess.V	A P Baidalinov and V A Rikhter	"Vers la question relative au changement du maillage dans le cul-de-sac des chaluts pendant la pêche de sébaste (<u>Sebastes mentella</u> T.) dans la pélagiale de la Mer d'Irmingier"
B:14	S F Efanov <u>et al.</u>	"On the decompression regime of fishes' lift from depth to surface"
B:15	R Fonteyne	"A laboratory study of the effect of bottom sediments on mesh size"
B:16 Sess.V	F Cardador	"New experiments on trawl-mesh selection of hake on the Portuguese coast"
B:17 Sess.U	P Reynisson	"A comparison of two methods for measuring the equivalent beam angles of hull mounted transducers"

- B:18 V V Blinov "Assessment of optimum mesh size in trawl's
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Sess.V
- B:19 V V Blinov "Assessment of the optimum mesh size in trawl's
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Sess.V North Atlantic"
- B:20 F A Veenstra "Application of energy-saving concepts in Dutch
fishing cutter design and operation"
- B:21 R Oeberst "Some aspects of planning of acoustic stock
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Sess.U
- B:22 O Gabriel, "The improvement of pelagic trawl technique for
W Hinz cutters"
and
R Rohrbeck
- B:23 O Gabriel "Development and operation of anchored pound
and nets at the Baltic coast of German Democratic
K H Schmidt Republic"
- B:24 H Stengel "Methods for the calculation of flexible rope
and and net systems exposed to flow"
H Leitzke
- B:25 R Skeide, "Testing of a new hook design (E-Z- baiter)
A Bjordal through comparative longline fishing trials"
and
S Løkkeborg
- B:26 Withdrawn.
- B:27 Withdrawn.
- B:28 B Isaksen "Selectivity experiments with square mesh
Sess.V and codends in bottom trawl"
J W Valdemarsen
- B:29 J W Valdemarsen "Further experiments with radial escape
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B Isaksen trawl"
- B:30 A Engås and "Preliminary results of investigations on
Ref.G O R Godø escapement of fish under the fishing line of a
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- B:31 T V Fosse "Acoustic imaging of fish"
Sess.U H Hobæk and
M Vestrheim
- B:32 K-J Ståhr "A towed body for echo integration in shallow
Sess.U water"
- B:33 Withdrawn.
- B:34 Withdrawn.
- B:35 H Lassen "Signal threshold in echo-integration"

- B:36 E Ona and "Haddock avoidance reactions during trawling"
Ref.G O Chruickshank
- B:37 E Ona and "Preliminary results from tests using a high-
Sess.U K Eger frequency sonar as trawl-sonde"
- B:38 E Ona and "Experiences using the ES-400 split-beam echo
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- B:39 E Ona and "In situ target strength observations on
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- ✓ B:40 E Ona "Acoustic detection of fish close to the bottom;
Ref.G theory and practical considerations"
Sess.U *Withdrawn*
- B:41 A Orlowski "Some observations on stability of hydro-
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term exploitation"
- B:42 "Report of the Working Group on Fisheries
Sess.U Acoustic Science and Technology (FAST), Hull,
14-16 May 1986"
- B:43 "Report of the joint session of FTFB/FAST
Sess.U Working Groups, Hull, May 1986: sampling gear
and behaviour problems in acoustic abundance
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- B:44 K Olsen "Sound attenuation within schools of herring"
Ref.H
Sess.U
- B:45 G Thorsteinsson "On the behaviour of Nephrops against bottom
Ref.K trawls as observed with an underwater TV"
- B:46 "Report of the Working Group on Fishing
Technology and Fish Behaviour, 12-14 May 1986,
Hull (UK)"

REFERENCE PAPERS FOR THE FISH CAPTURE COMMITTEE

- D:18 A Engås "Swept area and variation with depth and its
and influence on stratified trawl surveys indices on
O R Godø Arcto-Norwegian cod"
- G:26 A C Fariña "The West Ireland demersal fishery for Spanish
and fleet. 1. Comparison between trawl and longline
A Fernandez fishery"
- G:27 A Fernandez "The West Ireland demersal fishery for Spanish
and fleet. 2. Effects of shift effort from trawl to
A C Fariña longline"

- G:79 A Raknes "Acoustic estimates of spawning cod off Lofoten
and
K Sunnanå in 1986"
- H:35 S V Belikov "Results of Soviet investigations on blue
et al. whiting in spring 1985"
- H:43 M F Borges "A revision of trawl selectivity parameters of
horse mackerel in the Portuguese continental
area (Division IXa)"
- H:53 T Monstad "Report of the Norwegian surveys on blue whiting
during spring 1986"
- H:54 T Monstad "Relationship in distribution of blue whiting
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J Blindheim and hydrographic conditions in the Norwegian Sea
during summer, 1980-85"
- H:57 S Holzlöhner "Hydroacoustic stock estimation and biological
and A Orłowski results on the Josephine Bank in August 1984"
- H:62 O Haldórsson, "A method for estimating terminal Fs from a
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G Stefansson acoustic estimates of the Iceland herring"
- H:66 P Degnbol "Acoustical survey in Skagerrak-Kattegat and the
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- H:70 E Ona and "Repeated acoustic surveys on small herring in
I Røttingen a fjord area"
- J:5 S A Hoziosky "Mortality components' estimates for sprat in
and
F G Shevtsov the eastern Baltic"
- K:7 S R J Lovewell "Further pot selectivity experiments in the
and
J T Addison fisheries for lobster and crab on the east
coast of England"
- K:23 J Worms "The selectivity of a sea scallop (Placopecten
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M Lanteigne magellanicus) Digby dredge"
- M:25 G Thorsteinsson "Experimental salmon fishing at East-
and
T Gudjónsson Greenland in summer 1985 and recaptures
of tagged fish"

C - HYDROGRAPHY COMMITTEE

- C:1 Ref.E "Report of the Marine Chemistry Working Group, Helsinki, 18-21 February 1986"
- C:2 R Allyn "The formation of Greenland Sea deep water"
Clarke
- C:3 H D Livingstone "Radiotracer studies of deep water formation in the Nordic Seas"
- C:4 J M Rees "Hydrographic observations on the MAFF SOFAR and float site"
E M Gmitrowic
- C:5 C A Hudson "Current meter observations in the North Channel and their relationship to local wind"
J A Durance
- C:6 Withdrawn.
- C:7 S H Fonselius "On long-term variations of some hydrographical parameters in the deep basins of the Baltic proper"
Q
- C:8 G Radach, "Annual cycles and phenomena on other time scales in temperature, salinity, nutrients and phytoplankton at Helgoland Reede, 1962-84"
Ref.L J Berg and
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Q
- C:9 N G Saponetskaya "Year-to-year variations in spatial distribution of oxygen surplus in the Norwegian Sea"
- C:10 F E Alekseev "Macroscale water circulation, ontogenetic geographical differentiation and population structure of alfoncino Beryx splendens Lowe in the Atlantic Ocean"
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- C:11 S V Belikov "Some results of ichthyoplankton and hydrographic observations west and northwest of the British Isles in 1983-1985"
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- C:12 B Hansen "Measurement of flow north of the Faroe Islands, June 1986"
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- C:13 R A Myers "The effects of entrainment of shelf water by warm core rings on northwest Atlantic fish and K Drinkwater recruitment"
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- C:14 J Blindheim "Arctic intermediate water in the Norwegian Sea"
- C:15 B Hansen, "Evidence for an anticyclonic circulation on Faroe Bank"
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- C:16 J Cordt and "Mesoscale structures of the hydrography at a K P Koltermann melting ice edge in the Greenland Sea"

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- C:17 Ch. Heinze, "Deep water renewal in the European Polar Seas
P Schlosser from a multi-tracer approach"
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- C:18 K P Koltermann "On the deep circulation of the Greenland Sea -
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- C:19 Withdrawn.
- C:20 A Sy "Geotrophic transports across the Mid-Atlantic
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- C:21 G Wegner "Some remarks concerning the German weekly North
Sea t₀-chart"
- C:22 E Buch "Preliminary considerations on the heat transport
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- C:23 Sv Aa Malmberg "Hydrographic conditions in the Iceland Sea
J Olafsson and in late winter 1971, 1975 and 1982"
S S Kristmannson
- C:24 Sv Aa Malmberg "Deep water in the Iceland basin"
and J Olafsson *Withdrawn*
- C:25 L Føyn "The use of nutrient distributions in the North
Sea in explaining the dynamics of the different
watermasses"
- C:26 J G Braun "Oceanographical conditions in Canary Islands
et al. waters. I. Oxygen and nutrients"
- C:27 "Report of Working Group on Marine Data Manage-
ment, Copenhagen, 29 April-2 May 1986"
- C:28 "Report of Working Group on Shelf Seas Hydro-
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- C:29 "Report of the Working Group on Oceanic Hydro-
graphy, Hamburg, 26-27 May 1986"
- C:30 H D Dooley "Hydrographer's report"
- C:31 "Report of ICES/DHI Salinometer Intercalibration
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- C:32 R A Clarke "The Greenland Sea in winter"
J L Reid, Jr.
and J H Swift
- C:33 T Wojewódzki "Water dynamics, temperature, salinity, and oxy-
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- C:34 T Wojewódzki "Negative thermal anomaly of the deep layer in
the southern Baltic in 1985"
- C:35 B Rudels "An attempt to estimate the deep water production
from molecular effects"

- C:36 "Hydro-chemical observations in the North Sea
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- C:37 R R Dickson "North winds and production in the eastern North
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- C:38 J O Backhaus, "Regional aspects of the circulation on the
T Pohlmann North European shelf"
 and
 D Hainbucher
- C:39 "Report of Working Group on the Coordination of
 Hydrographic Investigations in the Baltic, Copen-
 hagen, October 1986"

REFERENCE PAPERS FOR THE HYDROGRAPHY COMMITTEE

- E:3 "Report of the Study Group on Patchiness In-
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- E:3a "The Patchiness Experiment in the Baltic in
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- E:44 V-M Niemelä "Ti, V and Fe concentrations in the near-bottom
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 Bothnia)"
- H:11 "Report on joint Soviet-Icelandic investigations
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 Sea and Icelandic waters in May-June 1986"
- H:36 A I Krysov "Spawning efficiency of the Atlanto-Scandian
 et al. herring in 1985"
- H:54 T Monstad "Relationship in distribution of blue whiting and
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 J Blindheim during summer, 1980-85"
- H:64 H Gjøsaeter "Growth of Barents Sea capelin Mallotus villosus
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 H Loeng
- L:10 A Corten "Biological indications of a change in North Sea
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- L:19 B Babenerd "Long-term observations of some hydrographical,
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 Bay, 1957-1975"
- L:20 M Gillbricht "Phytoplankton and nutrients near Helgoland"
- L:25 B J Rothschild "Biodynamics of the sea: Preliminary observa-
 and tions on high dimensionality and the effect of
 T R Osborn physics on predator-prey interrelationships"

- L:31 K Richardsson "Field and laboratory trials with a multi-channel fluorometer used to determine in situ concentrations of plant pigments"
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- L:32 K Richardsson "Herring larvae distribution, plankton production and hydrography in the Buchan Area (Scotland) in September-October, 1985"
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D - STATISTICS COMMITTEE

- D:1 T Laevastu "Numerical rendering of biomass and mortality
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- D:2 T Laevastu "Numerical simulation for the determination of
Ref. and effects of fishing, and the sensitivity of fish
G&H N Bax stocks to various parameters and processes"
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- D:3 J T Barry "A visual examination of the variability of
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M D Nichols schemes"
- D:4 R G Houghton "Use of groundfish survey data for tuning the
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W R Millner
- D:5 J Pope "A possible use of the Kalman filter for making
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- D:6 J G Pope "Integrated analysis on data for which only one age
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- D:7 Withdrawn.
- D:8 J LLeonart "Comparison of age/length keys"
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G+H B Morales- *Withdrawn*
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- D:9 R A Myers "The estimation of population size from research
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- D:10 U Damm and "Estimation of Z/K and L_{∞} from a length
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- D:11 H-P Cornus "Coefficient of fishing mortality developed from
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- D:12 Withdrawn.
- D:13 B Steinarsson "Comparison of random and fixed trawl stations
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- D:14 J M Hoenig "Reducing bias in estimates of stock composition"
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- D:15 J M Hoenig, "Model-based sampling methods for catch and effort
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- D:16 Withdrawn.
- V D:17 O Nakken "Characterizing a bottom trawl survey-station using
Ref.G and acoustic information" *Withdrawn.*
Sess.W E Ona
- D:18 A Engås "Swept area and variation with depth: its influence
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Sess.W O R Godø Norwegian cod"
- D:19 ICES "Progress Report 1985/1986"
Statistician

REFERENCE PAPERS FOR THE STATISTICS COMMITTEE

- E:30 R K Misra "The analysis of time trends in contaminant levels
and in Canadian Atlantic cod (*Gadus morhua*). 4. Time
J F Uthe trends for interactions of chemical contaminants"
- G:4 R Jones "Length composition analysis. The importance of
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- G:8 I Martin "An examination of the performance of some VPA
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- G:10 D W Armstrong "On bias in estimates of population parameters
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- G:16 T K Stokes "Assessing the effects of age-dependent, natural
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- G:37 J B Péroudou "Ajustement d'une relation entre cpue et et
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- G:53 N Daan "Trial runs with multispecies virtual population
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- G:59 R J R Grainger "A portable computerised system for logging
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- G:64 E W Koester "Analysis of selected problems in calculating
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- G:67 A Temming "Mathematical models for the estimation of food
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- G:68 A Temming "Estimating fishing and total mortality from tagging data effected by high fishing intensity on the grounds of release"
- G:69 T Jakobsen "A model simulating the effect of sampling strategy and on stock assessment of gadoids in Sub-areas I and K Nedreaas II"
- G:74 P Lewy "Integrated stochastic Virtual Population Analysis estimates and their precision of fishing mortalities and stock sizes for the North Sea whiting stock"
- G:91 M Fogarty "An evaluation of precision of abundance estimates et al. derived from bottom trawl surveys off the north-eastern United States"
- G:92 M Fogarty, "Modelling trends in abundance of bottom trawl surveys"
M Pennington
and J Iodien
- H:2 "Manual for the International Fish Surveys in the North Sea, Skagerrak and Kattegat (3rd Revision, November 1985)." With an Addendum: "Exchange tape specifications for IYFS data"
- H:62 O Halldórsson, "A method for estimating terminal Fs from a series of acoustic surveys - comparison of VPA and acoustic estimates of the Iceland herring"
P Reynisson
G Stefansson

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:1 Report of Activities
- E:2 "Report of the Working Group on the Effects on Fisheries of Extraction of Marine Sediments, Ostend, 27-29 May 1986"
- E:3 "Report of the Study Group on Patchiness Investigations in the Baltic Sea (PEX), Tallinn, 21-23 October 1985 and Gdansk, 4-6 February 1986"
- Ref.C
- E:3a "The Patchiness Experiment in the Baltic in April-May 1986"
- Ref. C
- E:4 Withdrawn.
- E:5 A D McIntosh "A survey of hydrocarbon levels and biodegradation and tion rates in selected areas of the northern
L C Massie North Sea 1983-1985"
- E:6 J M McKie "The determination of total tin and tributyl tin in marine biological materials using graphite furnace atomic absorption spectrophotometry"
- E:7 G Clarke "Preliminary investigation of the heavy metal content of Capitella capitata (Polychaete Annelidi) from two sewage affected areas".
- Sess.T
- E:8 Withdrawn.
- E:9 D G King "Laboratory and field studies of the accumulation of inorganic mercury by the mussel Mytilus edulis
and (L.)"
Sess. T I M Davies
- E:10 J B Hughes "Reproductive success of the winter flounder
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Sess.S Sound"
- E:11 K Verschraegen "Comparison of demographic (life- and fecundity table analysis) and biochemical (ATP and AEC) characteristics as sublethal pollution indices in the marine nematode Monhystera disjuncta"
Sess.S et al.
- E:12 G Vranken "Toxicity of copper, mercury and lead to a marine
Sess.S and nematode"
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- E:13 R A A Blackman, "The effects of new oil-based drill-muds in
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J E Thain
- E:14 J E Thain, "The effect of tributyl-tin on the reproduction of
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M Helm

- E:15 R J Law and "Preliminary studies of the dispersion of oily
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- E:16 M J Waldock "Environmental concentrations of 4 nonyl-phenol
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- E:17 S M Rowlatt, "Changes in sediments following the dumping of
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- E:18 D J Swift "Bioturbation of contaminated sediments in the
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- E:19 G Vranken "Toxicity of environmental toxicants on the marine
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- E:20 J M Sornin "Evolution of the quality and quantity of sus-
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Sess.T D Delmas relation with sedimentation and biodeposition" *Withdrawn*
- E:21 V Dethlefsen "Malformations of embryos of spring-spawning fish
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- E:22 V Dethlefsen "X-cells in gills of North Sea dab (Limanda
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- E:23 H Fischer "Zinc and cadmium in mussels (Mytilus edulis L.):
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- E:24 H Möller "Pollution and parasitism in the aquatic environ-
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- E:25 P Cameron "Chlorinated hydrocarbons in North Sea whiting,
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- E:26 H Rosenthal "Viable hatch and organochlorine contaminant
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- E:27 J F Uthe, "Management of the cadmium-contaminated lobster
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- E:28 J F Uthe "The effects of prolonged starvation on concen-
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- E:29 H C Freeman "The effects of acid rain (acidic water) on
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- E:30 R K Misra "The analysis of time trends in contaminant levels
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- E:31 W D Jamieson "Lower cost GC/MS in marine analytical chemistry"
- E:32 W F Bohlen "Time series observations of sediment stability
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- E:33 Sung Y Feng "Trace metals and polychlorinated biphenyls in
Sess.T Mytilus edulis deployed in the vicinity of dredged
material disposal sites in Long Island Sound"
- E:34 L Føyn and "Strategies in assessment of potential oil
Sess.S H Bjørke pollution effects on the fish resources"
- E:35 Withdrawn.
- E:36 "Report of the Fourth Meeting of the Working Group
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- E:37 "Report of the Working Group on Marine Sediments
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- E:38 "Report of the ICES/SCOR Working Group on the
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- E:39 "Report of the ad hoc Group of Statisticians
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- E:40 "Report of the ICES Workshop on the Use of
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- E:41 D Maertens "Environmental effects of sand extraction,
Ref.L dredging and dumping on the Belgian continental
Sess.T shelf: 1. The Western sand extraction area" *Withdrawn*
- E:42 D Maertens "Environmental effects of sand extraction,
Ref.L dredging and dumping on the Belgian continental
Sess.T shelf: 2. Dumping of dredging spoil and deepening
of navigation channels" *Withdrawn*
- E:43 M P O Sullivan "Environmental monitoring of an industrial
et al. waste dumpsite at sea off the southwest coast
of Cork"
- E:44 V-M Niemelä "Ti, V and Fe concentrations in the near-bottom
Ref.C water and sediments of the Bothnian Sea (Gulf of
Bothnia)"
- E:45 "Report of the Working Group on the Effects of
Sess.T Extraction of Marine Sediments, 27-29 May 1986,
Ostende" *Withdrawn*

- E:46 R Parmanne "Effect studies off a TiO₂ industry in the Both-
Sess.S et al. nian Sea (Baltic) 1984-85²
- E:47 "Publications of interest to the Marine En-
vironmental Quality Committee"
- E:48 J B Pearce "A review of the North Atlantic Working Group and
et al. its continuation of activities"
- E:49 A T Pruter "Marine debris - a growing problem"
Ref.L
- E:50 M Olsson "DDT and PCB pollution trends in Swedish aquatic
and environment"
L Reutergerårdh

→ E:51 and E:52 - see page 61

REFERENCE PAPERS FOR THE MEQC

- C:1 "Report of the Marine Chemistry Working Group,
Helsinki, 18-21 February 1986"
- F:11 I M Davies, "Accumulation of tin and tributyl-tin from anti-
J C McKie, fouling paint by cultivated scallops (Pecten
and J D Paul maximus) and Pacific oysters (Crassostrea gigas)"
- F:12 I M Davies "Accumulation of copper and nickel from anti-
and fouling compounds during cultivation of scallops
J D Paul (Pecten maximus) and Pacific oysters (Crassostrea
gigas)"
- F:13 J D Paul "Effects of copper and tin-based anti-fouling
and compounds on the growth of scallops (Pecten
I M Davies maximus) and oysters (Crassostrea gigas)"
- F:36 "Report of the ad hoc Study Group on 'The En-
vironmental Impacts of Mariculture'"
- F:46 P Hall "Environmental impact of a marine fish cage
and culture"
O Holby
- F:48 D Minchin "Organotin contamination in Irish waters"
and
C B Duggan
- F:51 "Report of the Working Group on the Introductions
and Transfers of Marine Organisms, Gdynia,
Poland, 3-6 June 1986"
- L:16 C Vanosmael "A comparative study of the macrobenthos of three
and sandbanks in the Belgian coastal waters in 1980-
C Heip 1984. Has sand exploitation an influence on the
macrobenthos?"
- L:26 "Report of the Working Group on Exceptional Algal
Blooms, Hirtshals, Denmark, 17-19 March 1986"
- L:27 "Fifth Report of the Benthos Ecology Working
Group, Ostende, 12-15 May 1986"

F - MARICULTURE COMMITTEE

- F:1 Report of Activities.
- F:2 J C A Craik "Egg quality in Atlantic salmon"
and S M Harvey
- F:3 A H McVicar "Observations on Pancreas disease of sea farmed
Atlantic salmon (Salmo salar L.)"
- F:4 T S Hastings "The humoral immune response of rainbow trout
and rabbits to extracellular products of the
and A E Ellis fish pathogen Aeromonas salmonicida"
- F:5 G Coleman, "Aeromonas salmonicida (the causative agent of
L Fyfe and furunculosis) extracellular virulence factors -
A L S Munro the common components"
- F:6 D W Bruno, "Gill lesions caused by Aeromonas salmonicida in
A L S Munro sea-reared Atlantic salmon, Salmo salar (L.)"
and E A Needham
- F:7 N Bromage and "Egg quality in farmed rainbow trout and some of
J Springate the factors involved in its control" *Withdrawn.*
- F:8 D A Smail "Infectious pancreatic necrosis (IPN) virus in
et al. Atlantic salmon: virulence studies and sub-
clinical effects with respect to growth,
smolting performance and condition"
- F:9 N Devauchelle "Ponte du turbot (Scophthalmus maximus) en cap-
et al. tivité" [Spawning of turbot (Scophthalmus
maximus) in captivity]
- F:10 N Devauchelle "Spawning of sole (Solea solea) in captivity"
et al.
- F:11 I M Davies, "Accumulation of tin and tributyl-tin from anti-
Ref.E J C McKie fouling paint by cultivated scallops (Pecten
Sess.S and maximus) and Pacific oysters (Crassostrea
J D Paul gigas)"
- F:12 I M Davies "Accumulation of copper and nickel from anti-
Ref.E and fouling compounds during cultivation of scallops
Sess.S J D Paul (Pecten maximus) and Pacific oysters (Crasso-
strea gigas)"
- F:13 J D Paul "Effects of copper and tin-based anti-fouling
Ref.E and compounds on the growth of scallops (Pecten
Sess.S I M Davies maximus) and oysters (Crassostrea gigas)"
- ✓ F:14 A Jelmert "Antibiotic treatment and dose-response of
and bacterial activity associated with flatfish
A M Jensen eggs" *Withdrawn.*

- V F:15 H Rabben and E Abrahamsen "Effects of water quality on survival of halibut larvae through the yolk-sac period"
Withdrawn
- F:16 L Berg and V Øiestad "Growth and survival studies of halibut (Hippoglossus hippoglossus L.) from hatching to beyond metamorphosis carried out in mesocosms"
- F:17 H Rabben and A Jelmert "Hatching of halibut (Hippoglossus hippoglossus L.) eggs under different light conditions"
- F:18 I Opstad, and A J Raae "Physical stress on larvae of halibut"
- F:19 H Rabben et al. "Production experiments of halibut fry in large enclosed water columns"
- F:20 H Rabben and I Huse "Growth of juvenile halibut (Hippoglossus hippoglossus L.) in captivity"
- F:21 H Aase, O A Misund and T Pedersen "Predation of oyster larvae by Aurelia aurita in a Norwegian oyster pond"
- F:22 G Höner, H Rosenthal and G Krüner "Rearing of juvenile Sarotherodon galilaeus in laboratory aquaria: II. Social interaction"
- F:23 G Höner, H Rosenthal and G Krüner "Rearing of juvenile Sarotherodon galilaeus in laboratory aquaria: III. Growth"
- F:24 Ref.M R Nortvedt *Mabre* "The activity of alevins of Atlantic salmon and rainbow trout, incubated on different substrates"
- F:25 Ref.M S Albrektsen, R Nortvedt and O Torrissen "The effect of a short time exposure to different temperature and salinity regimes on survival of maturing Atlantic salmon and eyed eggs, and changes in blood and seminal plasma during the spawning period"
- F:26 Ref.M R Nortvedt "The timing of emergence of Atlantic salmon and rainbow trout incubated on different substrates"
- F:27 *Withdrawn.*
- F:28 C Cahu, C Fauvel et AQUACOP "Effect of food fatty acid composition of P. vannamei broodstock on egg quality"
- F:29 M F Coustans et J Guillaume "Carence en acide ascorbique chez le turbot (Scophthalmus maximus L.)"

- F:30 P Spyridakis, "Protéine et amidon dans l'alimentation du juve-
R Metallier nile de bar ou loup (Dicentrarchus labrax)"
et
J Gabaudan
- F:31 J Person-Le "Résistance du jeune turbot (Scophthalmus maxi-
Ruyet et mus) à l'hypoxie"
D Ansquer
- F:32 J Person-Le "Le sevrage du bar (Dicentrarchus labrax) avant
Ruyet un mois; résultats préliminaires"
- F:33 H Rosenthal "A preliminary study on the reliability of field
and test kits for the determination of inorganic
R M Gershey nitrogen species in waters from aquaculture
facilities"
- F:34 H Rosenthal "Glossary of Aquaculture Terminology"
et al.
- F:35 H Rosenthal "Behavioural studies with salmonids under intensive
and culture in circular tanks" *Withdrawn*
Gary Batt
- F:36 "Report of the ad hoc Study Group on 'The En-
Ref.E vironmental Impacts of Mariculture'" *Presented orally.*
- F:37 M A Ramos "Quality of the gametes of Sparus aurata L. re-
lated with the age and growth" *Withdrawn*.
- F:38 S Bougrier "Essai de reimplantation de Crassostrea angulata
Sess.S et al. en France. Résistance au chambrage et comporte-
ment des hybrides C. angulata et C. gigas"
- F:39 G Tige "Epidémiologie de Bonamia ostreae et Marteilia
et al. refringens en Bretagne en 1984 et 1985: Situa-
tion et évolution"
- F:40 M Héral, "Influence du climat sur le recrutement et sur
J-M Deslous- la production d'huitres cultivées (Crassostrea
Paoli et angulata et Crassostrea gigas) dans le bassin de
J Prou Marennes-Oléron (France)"
- F:41 M Héral, "Dynamiques des productions et des biomasses des
J M Deslous- huitres creuses cultivées (Crassostrea angulata
Paoli et C. gigas) dans le Bassin de Marennes-Oléron
J Prou depuis un siècle"
- F:42 P Gouilletquer, "Perspectives de développement de l'élevage de
M Nedhif et la palourde japonaise Ruditapes philippinarum
M Héral dans le bassin ostréicole de Marennes-Oléron"
- F:43 H Ackefors "The structure of the salmonid production and
development in Nordic countries"
- F:44 H Ackefors "Aspect of the recent development of aquaculture
in Europe"
- F:45 H Ackefors "International sanitary regulations with refe-
rence to aquaculture"

- F:46 P Hall and "Environmental impact of a marine fish cage cul-
Ref.E O Holby ture"
- F:47 Withdrawn.
- F:48 D Minchin "Organotin contamination in Irish waters"
Ref.E and
C B Duggan
- F:49 "Report of the Working Group on Pathology and
Diseases of Marine Organisms, Dublin, 23-26
April 1986"
- F:50 "Publications related to Mariculture 1985"
- F:51 "Report of the Working Group on the Intro-
Ref.E ductions and Transfers of Marine Organisms,
Gdynia, Poland, 3-6 June 1986"
- F:52 A Mangor- "The effect of ambient salinity on the buoyancy
Jensen and of eggs from the Atlantic halibut Hippoglossus
A Jelmert hippoglossus"
- V F:53 A B Skiftes- "The impact of light and culture density on the
vik and energy consumption of two different larval
A Mangor- stages of the Atlantic halibut Hippoglossus
Jensen hippoglossus" *Withdrawn.*
- F:54 "Report of the Working Group on Genetics"
- F:55 "Report of ad hoc Study Group on First Feeding
of Fish Larvae for Mariculture"

REFERENCE PAPERS FOR THE MARICULTURE COMMITTEE

- E:20 J M Sornin "Evolution of the quality and quantity of sus-
and pending matters in a shellfish culture pond:
D Delmas relation with sedimentation and biodeposition"
- E:40 "Report of the ICES Workshop on the Use of
Pathology in Studies of the Effects of Con-
taminants, Dublin, 21-22 April 1986"
- H:40 H Rosenthal "Fertilization in herring eggs: a scanning elec-
and tron microscopic study"
P Odense
- K:28 R Meixner "The predation of mussels by eiders (Somateria
mollissima) and its effect on German mussel
farming"
- K:29 Ana Maria Leal "The growth of oysters Crassostrea angulata (La-
marck, 1818) in Albufeira lagoon"
- K:32 J M Sornin "Evolution of the quality and the quantity of
and suspended matters in a shellfish culture pond:
D Delmas relation with sedimentation and biodeposition"
- K:36 C Bacher "A methodology for stock assessments of cul-
et al. tivated oysters along the French Atlantic coast"

- K:38 A Bodoy "Assessments of natural mortality of cultivated oysters (Crassostrea gigas) in the bay of Marennes-Oléron"
- L:7 A Økland,
 V Øiestad
 and L Berg "Development of neuromast cells and their cupula in halibut larvae (Hippoglossus hippoglossus L.) and their destruction in different types of rearing systems"

G - DEMERSAL FISH COMMITTEE

- G:1 Report of Activities.
- G:2 J A Pope "Assessing sampling errors of surveys"
Ref.H and
Sess.W A M Shanks
- G:3 D W Armstrong "Proposal for a revised use of IYFS indices for
Sess.W and calibrating VPA"
R M Cook
- G:4 R Jones "Length composition analysis. The importance of
Ref. choosing the correct input growth parameters"
D+H+K
Sess.P
- G:5 R S Bailey "Food consumption by seabirds in the North Sea in
Ref.H relation to the natural mortality of exploited
fish stocks"
- G:6 Withdrawn.
- G:7 P A Kunzlik, "Preliminary results of the Scottish sand-eel
J A Gauld tagging project"
and
J R Hutcheon
- G:8 I Martin "An examination of the performance of some VPA
Ref.D and tuning methods applied to west of Scotland demersal
Sess.P R M Cook stocks"
- G:9 A W Newton "Scottish whiting tagging experiments in Division
VIa"
- G:10 D W Armstrong "On bias in estimates of population parameters
Ref.D and obtained by means of length stratified sampling
Sess.P S Ilardia for age/length keys"
- G:11 A P Robb "Gastric evacuation in whiting (Merlangius mer-
langus)" *Withdrawn*
- G:12 A W Newton "Recruitment fluctuations in the Rockall haddock
and stock"
A S Jermyn
- G:13 D Harding, "The English groundfish surveys in the North Sea
Sess.W L Woolner and
J Dann 1977-85"
- G:14 J Casey, "Stomach contents of cod and whiting caught
Ref.L J Dann and during the English groundfish survey of the North
Sess.R S Harding Sea in 1982 and 1984"
- G:15 J W Hunton "Areal and temporal sources of variation in the
Sess.W English North Sea groundfish survey"

- G:16 T K Stokes "Assessing the effects of age-dependent, natural Ref. mortality, changes in selection at age and dis- D+H+J cards using the method of Jones (1961)" Sess.P
- G:17 E Vasconcelos, "Distribution and catch composition of monk- M J Figueiredo fish (Lophius piscatorius L. and Lophius and A Ribeiro- budegassa Spinola) captured by trawl along Cascalho the Portuguese coast"
- G:18 A S Noskov "Abondance de larves et évaluation d'une partie et al. en ponte du stock de sébaste marin (Sebastes men- tella Travin) dans la mer Irminger en 1983"
- G:19 Yu. V "Aspects écologiques de la répartition et de la Chuksin conduite du lieu noir dans la Mer du Nord"
- G:20 V L Tretyak "On optimization of spawning stock biomass of and the Arcto-Norwegian cod" V G Kovalenko
- G:21 B I Berenboim "On "predator-prey" relationship between cod Ref.K et al. and shrimp Pandalus borealis in the Barents Sess.R Sea"
- G:22 Withdrawn.
- G:23 L M Shestova "Length-age composition and sex ratio of the Sess.Q beaked redfish Sebastes mentella from the Nor- wegian-Barents Sea stock in 1953-1985"
- G:24 V P Sorokin "Growth and maturity of the Norwegian Barents Sea Sess. et al. stock redfish Sebastes mentella in 1966-1972 and Q 1975-1983"
- G:25 I N Simacheva "Distribution, abundance and size-age struc- Sess.R and ture of the Barents Sea long rough dab stock" A A Glukhov
- G:26 A C Fariña "The West Ireland demersal fishery for Spanish Ref.B and fleet. 1. Comparison between trawl and longline A Fernandez fishery" *Withdrawn*
- G:27 A Fernandez "The West Ireland demersal fishery for Spanish Ref.B and fleet. 2. Effects of shift effort from trawl to A C Fariña longline" *Withdrawn*
- G:28 J Lahn- "Acoustic estimates of abundance of 0-group Johannessen gadoids in the northern North Sea in July 1985"
- G:29 S Mehl "Stomach contents of North-East Arctic cod and possible changes in the diet the last years"
- G:30 H F Arancibia "First estimation of the predation mortality Sess.R by Chilean hake (Merluccius gayi) on red crab (Pleuroncodes monodon) in the area 35°45'S - 37°10'S, Chile" *Withdrawn*
- G:31 E de Cardenas "The evolution of hake cpue in ICES Sub- and areas VI, VII and VIII for the period 1973- B Villamor 1986" *Withdrawn*

- G:32 P Pereda and A Lavin "The evolution of the cpue angler fishes (Lophius piscatorius and L. budegassa) in ICES Sub-areas VI, VII, and VIII for the period 1973-85" *Withdrawn.*
- G:33 I Olaso and P Pereda "First data on the feeding habit of the genre Lepidorhombus in the Cantabrian and Galician continental shelf" *Withdrawn.*
- G:34 I Olaso, and P Pereda "First results of the studies about the feeding of the species of fish accompanying the southern stock of hake"
- G:35 I Olaso et al. "Results of the bottom trawl survey 'Cantabrico 85' made in ICES Division VIIIc in 1985" *Withdrawn*
- G:36 G R Lilly Ref.K and Sess.R S Meron "Propeller clam (Cyrtodaria siligua) from stomachs of Atlantic cod (Gadus morhua) on the southern Grand Bank (NAFO Div. 3NO): natural prey or an instance of net feeding?"
- G:37 J B Péroudou Ref.D and Sess.P "Ajustement d'une relation entre cpue et estimation d'abondance du stock de lieu noir (flotille française des Secteurs 6A et 4A)" *Withdrawn*
- G:38 S Mabeau, J C Poulard and J C Mahé "Research survey abundance indices for the cod stock in NAFO Subdivision 3PS, their reliability and compatibility with results of a cohort analysis"
- G:39 S Mabeau Sess. W et al. "Analysis of some possible bias sources affective abundances estimators based on random stratified trawl survey" *Withdrawn.*
- G:40 B Mesnil Sess.X "Towards more consistent advice on North Sea demersal stocks"
- G:41 B Mesnil Sess.X "Alternative options in the assessment of North Sea haddock and whiting stocks"
- G:42 A Souplet Sess.W "Abundance estimates of 1-group cod, haddock and whiting in the North Sea. Use of fishing power by vessel and catchability by area"
- G:43 Withdrawn.
- G:44 Withdrawn.
- G:45 J Hersart Sess.O de la Villemarque et al. "Résultats préliminaires de l'étude des oeufs de larves de sole Solea vulgaris Quensel 1806, en 1985 dans le secteur nord Gascogne"
- G:46 L Tito de Ref.L Morais et Sess. J-Y Bodiou R "Trophic contribution of meiobenthic copepods to young soleid recruits" *Withdrawn*

- G:47 D A Robichaud, "The predatory behaviour of cod (Gadus morhua)
Sess. R F J Bailey and skate (Raja radiata) on the crab prey
R species (Chionoecetes opilio, Hyas araneus,
and H. coarctatus"
- G:48 J S Collie "Food selection and consumption by yellowtail
Sess. flounder (Limanda ferruginea) on Georges Bank"
R
- G:49 O M Smedstad "Acoustic estimates of saithe in the North Sea in
1985 and 1986"
- G:50 P I van Leeuwen "The analysis of the growth of turbot by back-
and calculation of otoliths"
A D Rijnsdorp
- G:51 Withdrawn.
- G:52 P Lucio "On the methodology of length back-calculation
from otoliths in flatfish, with particular re-
ference to brill (Scophthalmus rhombus L.)"
- G:53 N Daan "Trial runs with multispecies virtual population
Sess.D+H analysis based on numbers of prey organisms
Sess.P observed in stomachs"
- G:54 A Corten "Application of the results from the Inter-
Ref.H national Young Fish Surveys in fisheries manage-
Sess.X ment in recent years"
- G:55 T Buijse "Sources of variation in IYFS indices of abun-
Ref.H and dance - a preliminary analysis"
Sess.W N Daan
- G:56 S Cramer "Consumption of benthos by North Sea cod and
Sess.R and haddock in 1981"
N Daan
- G:57 R Gonzalez "Preliminary studies on the stomach contents of
several species in the demersal fishery off
Galicia (IXa, VIIIC)"
- G:58 O A Bergstad "Fish communities of the Norwegian deeps: Species
Ref.H composition and distributional patterns"
- G:59 R J R Grainger "A portable computerised system for logging of
Ref.D and fish sample data"
and S McLoughlin
and H
Sess.P
- G:60 H Marques "Reproduction of the forkbeard Phycis phycis
da Silva (Linnaeus, 1766) in Azorean waters"
- G:61 H M Krug "Reproduction of the blackspot seabream, Pagellus
boquaraveo (Brünnich, 1768) in Azorean waters"
- G:62 J Alheit "A new method for determining batch fecundity of
hake (Genus: Merluccius)"

- G:63 R Knust "Food selection of dab, Limanda limanda: diel and seasonal changes"
- G:64 F-W Koester "Analysis of selected problems in calculating yield per recruit curves for marine fish stocks"
Ref.
D+H+J
Sess.P
- G:65 G Rauck "Age and length distribution of plaice in coastal waters of the German Bight"
- G:66 W Schwarzbach "Geographical distribution and trophic ecology of the demersal fish fauna in the eastern and southern Weddell Sea"
Ref.L
Sess.R
- G:67 A Temming "Mathematical models for the estimation of food consumption from stomach content data of a 24-h-fishery"
Ref.D
Sess.P
- G:68 A Temming "Estimating fishing and total mortality from tagging data effected by high fishing intensity on the grounds of release"
- G:69 T Jakobsen "A model simulating the effect of sampling strategy on stock assessment of gadoids in Sub-areas I and II"
Ref.D
Sess.P
and
K Nedreaas
- G:70 A G V Salvanes "Preliminary report from a study of species composition, size composition and distribution of the fish in a fjord of western Norway based on regularly conducted experimental fishing and catch statistics during one year"
- G:71 A G V Salvanes "Preliminary report from a comparative study of the diet of four gadoid fish in a fjord of western Norway"
- G:72 J Reinert "Report of the 0-group surveys in Faroese waters and 1985 and 1986"
A Kristiansen *Withdrawn.*
- G:73 E Jönsson "Icelandic groundfish survey 1986"
et al.
- G:74 P Lewy "Integrated stochastic Virtual Population Analysis estimates and their precision of fishing mortalities and stock sizes for the North Sea whiting stock"
Ref.D
Sess.P
- G:75 H Bjørke "Abundance indices for the Arcto-Norwegian cod for the period 1979 - 1986 based on investigations in June/July"
Sess.W
and
S Sundby
- G:76 A Hylen "Preliminary report of the Norwegian investigations on young cod and haddock in the Barents Sea"
et al.
- ✓ G:77 A Hylen "Stock size of North-East Arctic cod, estimates from survey data 1985/86"
and
O Nakken *Withdrawn.*

- G:78 Anon. "Preliminary report of the international O-Group fish survey in the Barents Sea and adjacent waters in August-September 1986"
- G:79 A Raknes "Acoustic estimates of spawning cod off Lofoten
Ref.B and in 1986"
K Sunnanå
- G:80 O R Godø, "Tagging experiment results on cod in Western
T I Halland Norway fjord areas"
and P Ågotnes
- G:81 O R Godø "Preliminary report of the Norwegian groundfish
and survey at Bear Island and West-Spitsbergen in the
J Nedreaas autumn 1985"
- G:82 H Macara "Contribution to the knowledge of the biology of
Dinis Merluccius merluccius L. on the Portuguese coast,
based on data obtained from Portuguese research
cruises during 1980-86"
- G:83 Withdrawn.
- G:84 Withdrawn.
- G:85 J Jónsson "On the post-spawning cod in Icelandic waters"
- G:86 G J Cranmer "The food of the haddock (Melanogrammus aegle-
Ref.L finus) in the North Sea"
Sess.R
- G:87 K Nedreaas "Abundance and distribution of postlarvae in the
O-group saithe survey in the North-East Arctic in
1985"
- G:88 Withdrawn.
- G:89 E B Cohen, "Absence of large-scale coherence in cod and
Sess.Q D G Mountain haddock recruitment in the Northwest Atlantic"
and
R N O'Boyle
- G:90 H J L Heessen "Dutch groundfish survey: data on cod and whit-
ing (1980-85)"
- G:91 M Fogarty "An evaluation of precision of abundance esti-
Ref.D et al. mates derived from bottom trawl surveys off the
Sess.W northeastern United States"
- G:92 M Fogarty, "Modelling trends in abundance of bottom trawl
Ref.D M Pennington surveys"
Sess.W and J Iodine
- G:93 "Report of the ad hoc Study Group on Hake, Lowes-
toft, 2-6 June 1986"
- G:94 D Woehrling "En attendant mieux: une tentative pour approcher
Sess.Q le taux de mortalité des larves de soles" *Withdrawn.*
- G:95 "Report of the ad hoc Group on the 1984 and 1985
sole (Solea solea L.) egg surveys"

REFERENCE PAPERS FOR THE DEMERSAL FISH COMMITTEE

- B:6 E J Simmonds "Frequency dependence of herring and cod target strengths"
- B:9 R D Galbraith "Full-scale instrumented gear trials with the ICES Young Fish Sampling Trawl (GOV) - FRV 'Scotia' - June 1985"
- B:13 A P Baydalinov and V A Rikhter "Vers la question relative au changement du maillage dans le cul-de-sac des chaluts pendant la pêche du sébaste marin (Sebastes mentella T.) dans la pelagiale de la Mer d'Irminger"
- B:18 V V Blinov "Assessment of the optimum mesh size in trawl's codend for Arcto-Norwegian cod fishery"
- B:19 V V Blinov "Assessment of the optimum mesh size in trawl's codend for redfish S. mentella T. fishery in the North Atlantic"
- B:30 A Engås and O R Godø "Preliminary results of investigations on escapement of fish under the fishing line of a Norwegian sampling trawl"
- B:36 E Ona and O Cruickshank "Haddock avoidance reactions during trawling"
- B:39 E Ona and K Hansen "In situ target strength observations on haddock"
- B:40 E Ona "Acoustic detection of fish close to the bottom; theory and practical considerations"
- C:15 B Hansen, D Ellett and D Meldrum "Evidence for an anticyclonic circulation on Faroe Bank"
- D:1 T Laevastu and N Bax "Numerical rendering of biomass and mortality distribution with age"
- D:2 T Laevastu and N Bax "Numerical simulation for the determination of effects of fishing, and the sensitivity of fish stocks to various parameters and processes"
- D:8 J Lleonart and B Morales-Nin "Comparison of age/length keys"
- D:10 U Damm and C Hermann "Estimation of Z/K and L_{∞} from a length distribution when L_{∞} is assumed to vary between individuals"

- D:11 H-P Cornus "Coefficient of fishing mortality developed from survey results of stock affected by immigration"
- D:13 B Steinarsson "Comparison of random and fixed trawl stations and in Icelandic groundfish surveys and some computational considerations"
G Stefánsson
- D:14 J M Hoenig "Reducing bias in estimates of stock composition" and
D M Heisey
- D:15 J M Hoenig, "Model-based sampling methods for catch and effort estimation"
F Martin and
M Heywood
- D:17 O Nakken "Characterizing a bottom trawl survey-station and using acoustic information"
E Ona
- E:10 J B Hughes "Reproductive success of the winter flounder et al. (Pseudopleuronectes americanus) in Long Island Sound"
- E:21 V Dethlefsen "Malformations of embryos of spring-spawning fish et al. in the southern North Sea"
- E:22 V Dethlefsen "X-cells in gills of North Sea dab (Limanda and R Knust limanda): epizootiology and impact on condition"
- H:2 "Manual for the International Fish Surveys in the North Sea, Skagerrak and Kattegat" (3rd Revision, November 1985) with an Addendum
- H:68 E Dahl "Stomach contents of mackerel, horse mackerel and whiting in the eastern part of the North Sea in July 1985"
E Kirkegaard
- H:73 "Final report on the International Young Fish Surveys in the North Sea, Skagerrak/Kattegat in 1983-85"
- L:3 B R Kuipers "Interaction between juvenile plaice (Pleuro-
et al. nectes platessa) and benthos in a tidal flat area"
- L:4 F Creutzberg "The role of the lesser weever (Trachinus vipe-
and ra) and the dab (Limanda limanda) in the benthic
C A Duineveld system of the southern North Sea"
- L:9 A D Rijnsdorp "On the mechanism of energy allocation over reproduction and somatic growth with particular reference to female plaice: a hypothesis"
- L:24 M Grosslein "Use of trawl survey data for mapping yield potential of fishery resources of the northeast shelf ecosystem"

- L:25 B J Rotschild "Biodynamics of the sea: preliminary observa-
and tions on high dimensionality and the effect of
T R Osborn physics on predator-prey interrelationships"
- M:22 M Sinclair "Population richness of marine fish species"
and
T D Iles
- M:26 E J Chesney "Multiple environmental factors as determinants
of survival and growth in larval striped bass,
Morone saxatilis"

H - PELAGIC FISH COMMITTEE

- 25
- H:1 Report of Activities (plus Addendum)
- H:2 "Manual for the International Fish Surveys in the
Ref. D+G North Sea, Skagerrak and Kattegat" (3rd Revision,
Sess.P November 1985), with an Addendum: Exchange Tape
Specifications for IYFS Data
- ✓ H:3 "Report of the Working Group on Herring Larval
Surveys South of 62°N, Hirtshals, 6-10 January
1986"
- H:4 S N Messieh "Mass mortality of herring eggs on spawning beds
and and near Fisherman's Bank, Gulf of St. Lawrence
H Rosenthal (NAFO Div. 4T) during Fall 1985"
- H:5 S Veron "Formation of the Bowers ring in the otoliths of
Poster and blue whiting (Micromesistius poutassou Risso 1826)
B Morales- from the Catalan Sea"
Nin
- H:6 M Heath "Report on acoustic survey of Division VIa(N)"
and
P Copland
- ✓ H:7 P J Hopkins "Mackerel stock discrimination using otolith mor-
phometrics"
- H:8 Withdrawn.
- ✓ H:9 P A Kunzlik "Harvesting North Sea herring: results of a
and stochastic simulation model"
R S Bailey
- H:10 Withdrawn.
- H:11 "Report on joint Soviet-Icelandic investigations
Ref.C of hydrobiological conditions in the Norwegian
and L Sea and Icelandic waters in May-June 1986"
- ✓ H:12 D W McKay, "Report on an acoustic survey for sprats in the
Ref. F Armstrong western North Sea. January 1986"
J and
J R Hutcheon
- ✓ H:13 J A Morrison "Further evaluation of tagging and detection
and of microwire tags in herring and the potential
W S MacDonald of the technique in herring stock assessment"
- H:14 P W Rankine "A report on the ICES Herring Larval Surveys in
the North Sea and adjacent waters in 1985/86"
- H:15 P W Rankine "Herring spawning grounds around the Scottish coast"
- H:16 E J Simmonds, "Report on the 1985 ICES-coordinated herring
R S Bailey acoustic survey in the northern North Sea"
and
D W McKay

- ✓ H:17 J H A Martin "Recent changes in the distribution and migrations
Sess. and of the Western mackerel stock in relation to
Q M Walsh hydrographic changes"
- H:18 M Heath "Studies on herring larvae off the north coast of
Sess. and Scotland"
O P MacLachlan
- H:19 I Røttingen "Data on the 1983 year class of Norwegian spring-
spawning herring from the period June 1985-June
1986"
- H:20 X Pastor, "Acoustic abundance estimation of sardine (Sardina
C Porteiro pilchardus Walb.) of Cantabric and Galician
and waters. March 1986"
F Alvarez
- H:21 X Pastor "Acoustic abundance estimation of sardine
et al. (Sardinus pilchardus Walb.) in Galician and Can-
tabric waters. August 1985"
- ✓ H:22 P O Johnson "Results of English acoustic surveys for herring
in the central and southern North Sea, August and
December 1985"
- H:23 J H Nichols, "Herring larvae studies in the west central North
Sess. B M Thompson Sea in 1985"
O and J Riley
- ✓ H:24 W A Dawson "Mackerel (Scomber scombrus L.) otolith L₁
analysis as a method of stock separation"
- ✓ H:25 W A Dawson "Analysis of the mackerel (Scomber scombrus L.)
otolith exchange programme"
- ✓ H:26 V Ortiz "Stomach contents study of immature bluefin tuna
and in the Bay of Biscay (Region 3 of EEC)"
J L Cort
- H:27 "Report of the Planning Group for Acoustic Surveys
in ICES Sub-areas VIII and IX, Lisbon, 1-4 April
1986"
- H:28 C Porteiro, "Sardine (Sardina pilchardus Walb.) stock diffe-
F Alvarez rental distribution by age class in Divisions
and VIIIc and IXa"
J A Pereiro
- H:29 E M Karasiova "Cannibalism in blue whiting (Mircromesistius pou-
tassou (Risso) during the spawning period"
- ✓ H:30 E M Karasiova "Studies on blue whiting spawning in Sub-areas VI
et al. and VII"
- H:31 N M Timoshenko "Comparison of growth marks on otoliths of blue
whiting of 1968 year class from Sub-areas VI
and VII"
- H:32 V N Feldman "Quelques traits particuliers de la répartition et
Ref.J de la biologie du sprat de la Mer du Nord en
fonction de sa différenciation à l'intérieur de la
population"

- H:33 A V Shevchenko "Peculiarities of blue whiting length-age composition and distribution depending on hydrological conditions in the Norwegian Sea in spring/summer 1984/85"
and
N A Isaev
- H:34 Withdrawn.
- H:35 S V Belikov "Results of Soviet investigations on blue whiting
Ref. et al. in spring 1985"
B
- H:36 A I Krysov "Spawning efficiency of the Atlanto-Scandian
Ref. et al. herring in 1985"
C
Sess.0
- H:37 J Mejuto, "The most important shark catches associated with
J C Rey Spanish swordfish Atlantic fishery during 1985"
and
S Iglesias *Withdrawn*
- H:38 H Gjøsæter "Growth of the Barents Sea capelin compared to
stock size and geographical distribution"
- H:39 H Bjørke, "Distribution, drift and condition of herring
Sess. P Fossum larvae off Western Norway in 1985"
and
O
R Sætre
- H:40 H Rosenthal "Fertilization in herring eggs: a scanning elec-
Ref.F and tron microscopic study"
P Odense
- H:41 Withdrawn.
- ✓ H:42 R Toresen "Length and age at maturity of Norwegian spring-
spawning herring for the year classes 1959-61 and
1973-78"
- H:43 M F Borges "A revision on trawl selectivity parameters of
Ref.B horse mackerel in the Portuguese continental area
Sess.V (Division IXa)" *Withdrawn*
- H:44 M F Borges "Design and analysis of trawl surveys for esti-
Sess.W mating horse mackerel biomass indices in
Portuguese waters (Division IXa)"
- H:45 A Astudillo "The anchovy in the Bay of Biscay: recent data on
the fishery"
- H:46 A Astudillo "The anchovy in the Bay of Biscay: relationships
length/age number of individuals per kg"
- H:47 G Biaïis "Results of the French acoustic survey undertaken
et al. in the Eastern Channel in November 1985"
- H:48 G Biaïis "Estimation of the abundance of the Eastern
Channel herring stock using catch per unit of
effort"

- ✓ H:49 A Eltink, "Origin, migration and spawning of southern North
M Warmerdam Sea mackerel with respect to the overspill of
and Western mackerel to the North Sea stock"
A Heinen
- H:50 J Santiago "Combination of herring larval abundance estimates
of the different North Sea areas into a single
spawning stock index"
- ✓ H:51 J Hamre "The effects of a minimum landing size regulation
and in the fishery of Norwegian spring-spawning
R Toresen herring"
- H:52 Withdrawn.
- H:53 T Monstad "Report of the Norwegian surveys on blue whiting
Ref.B during spring 1986"
- H:54 T Monstad "Relationship in distribution of blue whiting and
Ref. and hydrographic conditions in the Norwegian Sea
B+C J Blindheim during summer, 1980-85"
- H:55 "International Acoustic Survey on Blue Whiting in
Ref.B the Norwegian Sea during summer 1986"
- H:56 A Dumke "Results of investigations of liver weights from
blue whiting (Micromesistius poutassou Risso) from
NE-Atlantic"
- H:57 S Holzlöhner "Hydroacoustic stock estimation and biological re-
Ref. and sults on the Josephine Bank in August 1984"
B A Orłowski
- H:58 J Alheit "Reproductive biology of sprat, Sprattus sprattus:
Ref.J factors determining annual egg production"
- H:59 J Alheit "Egg cannibalism versus egg predation: their
significance in anchovies"
- H:60 J Alheit "Fecundity of Peruvian anchovy, Engraulis ringens"
and
B Alegre
- H:61 Withdrawn.
- ✓ H:62 O Halldórsson, "A method for estimating terminal Fs from a
Ref. P Reynisson, series of acoustic surveys - comparison of VPA
B+D and acoustic estimates of the Iceland herring"
Sess. G Stefánsson
U
- ✓ H:63 K E Jørstad "Identification of biological and genetical
and distinct herring populations in a Norwegian fjord-
S A Pedersen system"
- H:64 H Gjøvsæter "Growth of the Barents Sea capelin, Mallotus
Ref.C and villosus, in relation to climate"
Sess. H Loeng
Q

- ✓ H:65 E Bakken and T Westgård "Intermixture of the North Sea and Western mackerel stocks determined by analyses of Norwegian tagging data"
- H:66 P Degnbol "Acoustical survey in Skagerrak- Kattegat and the Western Baltic in August - September 1985"
Ref. B+J et al.
- H:67 V Christensen and H Lassen "Estimating average length composition from the International Herring Larvae Survey data"
- ✓ H:68 K Dahl "Stomach contents of mackerel, horse mackerel and whiting in the eastern part of the North Sea in July 1985"
Ref. G and E Kirkegaard
- ✓ H:69 E Kirkegaard "Report on the acoustic survey for herring of the west coast of Denmark in July 1985"
- ✓ H:70 E Ona and "Repeated acoustic surveys on small herring in a fjord area"
Ref. I Røttingen
B
Sess. U
- H:71 M M F Morais "On the reproductive biology of the blue whiting (Micromesistius poutassou, Risso 1820) in the Portuguese coast (ICES Division IXa)" *Withdrawn*
de Cunha
- H:72 M Lourdes "A preliminary analysis of horse mackerel (Trachurus trachurus L.) otolith (L₁) measurements"
Marecos
- ✓ H:73 "Final report on the International Young Fish Surveys in the North Sea, Skagerrak/Kattegat in 1983-85"
Ref. G
- H:74 "Report on the 0-group fish survey in Icelandic and East Greenland waters, August 1986"
Ref. G

REFERENCE PAPERS FOR THE PELAGIC FISH COMMITTEE

- B:5 F Armstrong "Target strength of sandeels"
- B:6 E J Simmonds "Frequency dependence of herring and cod target strengths"
- B:9 R D Galbraith "Full-scale instrumented gear trials with the ICES Young Fish Sampling trawl (GOV) - FRV 'Scotia' - June 1985"
- B:38 E Ona and "Experiences using the ES-400 split-beam echo sounder, with special reference to the single-fish recognition criterion"
I Røttingen
- B:44 K Olsen "Sound attenuation within schools of herring"
- C:10 F E Alekseev "Macroscale water circulation, ontogenetic geographical differentiation and population structure of alfoncino Beryx splendens Lowe in the Atlantic Ocean"
et al.

- C:11 S V Belikov et al. "Some results of ichthyoplankton and hydrographic observations west and northwest of the British Isles in 1983-1985"
- C:36 "Hydro-chemical observations in the North Sea during the International Young Fish Survey 1986"
- D:1 T Laevastu and N Bax "Numerical rendering of biomass and mortality distribution with age"
- D:2 T Laevastu and N Bax "Numerical simulation for the determination of effects of fishing, and the sensitivity of fish stocks to various parameters and processes"
- D:8 J Lleonart and B Morales-Nin "Comparison of age/length keys"
- D:10 U Damm and C Herrmann "Estimation of Z/K and L_{∞} from a length distribution when L_{∞} is assumed to vary between individuals^{oo}"
- D:14 J M Hoenig and D M Heisey "Reducing bias in estimates of stock composition"
- D:15 J M Hoenig, F Martin and M Heywood "Model-based sampling methods for catch and effort estimation"
- E:26 H Rosenthal et al. "Viable hatch and organochlorine contaminant levels in gonads of fall spawning Atlantic herring from Grand Manan, Bay of Fundy, Canada"
- G:2 J A Pope and A M Shanks "Assessing sampling errors of surveys"
- G:4 R Jones "Length composition analysis. The importance of choosing the correct input growth parameters"
- G:5 R S Bailey "Food consumption by seabirds in the North Sea in relation to the natural mortality of exploited fish stocks"
- G:16 T K Stokes "Assessing the effects of age-dependent natural mortality, changes in selection at age and discards using the method of Jones (1961)"
- G:53 N Daan "Trial runs with multispecies virtual population analysis based on numbers of prey organisms observed in stomachs"
- G:54 A Corten "Application of the results from the International Young Fish Surveys in fisheries management in recent years"
- G:55 T Buijse and N Daan "Sources of variation in IYFS indices of abundance - a preliminary analysis"

- G:58 O A Bergstad "Fish communities of the Norwegian deeps: Species composition and distributional patterns"
- G:59 R J R Grainger and S McLoughlin "A portable computerised system for logging of fish sample data"
- G:64 E W Koester "Analysis of selected problems in calculating yield per recruit curves for marine fish stocks"
- J:5 S A Hoziosky and F G Shvetsov "Mortality components' estimates for sprat in the eastern Baltic"
- J:8 G B Graumann et al. "On the factors determining abundance of Baltic sprat"
- J:15 F G Shvetsov et al. "Preliminary results of a joint hydroacoustic sprat survey by the USSR and GDR in the Baltic in May 1986"
- J:16 O Reclin "Remarks on Baltic sprat assessment in relation to stock identity"
- J:17 G B Graumann and K Krenkel "Investigations about the dynamic of spawning processes of the Baltic sprat in 1984"
- L:9 A D Rijnsdorp "On the mechanism of energy allocation over reproduction and somatic growth with particular reference to female plaice: a hypothesis"
- L:24 M Grosslein et al. "Use of trawl survey data for mapping yield potential of fishery resources of the northeast shelf ecosystem"
- L:25 B J Rotschild and T R Osborn "Biodynamics of the sea: preliminary observations on high dimensionality and the effect of physics on predator/prey interrelationships"
- L:32 R Richardson et al. "Herring larvae distribution, plankton production and hydrography in the Buchan Area (Scotland) in September-October, 1985"
- L:33 P Munk "A comparison between the standard-IKMT and the Methot-IKMT for catching 6-month-old herring larvae"
- L:34 P Munk "The distribution of 6-month-old herring larvae in the North Sea"
- M:19 T J Mulligan "Stock identification based on the elemental composition of otoliths"
- M:20 T J Mulligan and R W Chapman "Stock identification of white perch, Morone americana, based on mitochondrial DNA analysis"
- M:22 M Sinclair and T D Iles "Population richness of marine fish species"

J - BALTIC FISH COMMITTEE

- J:1 "Report of Activities"
- J:2 "Report of Planning Group for Hydroacoustic Surveys in the Baltic, Copenhagen, 7-9 April 1986"
- J:3 O Hagström "Acoustic estimates of the herring and the sprat stocks in the Baltic proper 1985"
- J:4 A Lankov "The food of young Baltic herring *Clupea harengus membras* L. in the Gulf of Finland"
- J:5 S A Hoziosky "Mortality components' estimates for sprat in the eastern Baltic"
Ref. B and
and H F G Shvetsov
Sess.U
- J:6 R Aps and "Age and survival rate of sprat in the north-eastern Baltic in 1970-85"
Ref.H B Fiks
- J:7 T Baranova "Growth and maturation of cod (*Gadus morhua callarias* L.) in the eastern Baltic"
and
D Uzars
- J:8 G B Grauman "On the factors determining abundance of Baltic
Ref.H et al. sprat"
- J:9 Withdrawn.
- J:10 E F Trauberga, "Feeding and reproduction of young herring,
R Line and *Clupea harengus membras* L., in the Gulf of
V Berzin'sh Riga"
- J:11 E M Kostrichkina "On the role of the coastal upwelling in the
and formation of zooplankton productivity in the
A K Yurkovskis Baltic Sea"
- J:12 O Bagge and "Periodicity of feeding in Baltic cod according
J Bay to time of day and season"
- J:13 H Borrmann "Sustainable yield curves according to the method
and of Shepherd constructed separately for cod in
M Berner Sub-divisions 22 and 24"
- J:14 Withdrawn.
- J:15 F Shvetsov "Preliminary results of a joint hydroacoustic
Ref.H et al. sprat survey by the USSR and GDR in the Baltic in
May 1986"
- J:16 O Rechlin "Remarks on Baltic sprat assessment in relation
Ref.H to stock identity"
- J:17 G Graumann "Investigations about the dynamic of spawning
Ref.H and processes of the Baltic sprat in 1984"
K Krenkel
- J:18 O Bagge "Danish discards in the Baltic 1985-86"

- J:19 O Bagge "Change in abundance and growth of dab and plaice
and in Sub-division 22 1953-64 and 1982-85"
E Nielsen
- J:20 O Bagge "On the age distribution and mortality of Cod in
S Munch- the Baltic 1982-86 estimated from Danish trawl
Petersen surveys" *Withdrawn.*
and
E Steffensen
- J:21 *Withdrawn.*
- J:22 F Thurow "On the variance of cod catches with regionally
Sess.W and temporally distributed hauls"
- J:23 *Withdrawn.*
- J:24 "Report of the ad hoc Working Group on Young Fish
Trawl Surveys in the Baltic, Rostock, 24 February
- 1 March 1986"
- J:25 "Report of the Workshop on Baltic Herring Age-
Reading and Stock Differentiation, Gdynia, 12-16
May 1986"
- J:26 E Aro "The food selection of Baltic herring in late
et al. summer in the northern Baltic Sea"
- J:27 *Withdrawn.*
- J:28 R Parmanne "Recaptures of Baltic herring tagged off the
and coast of Finland in 1982-85"
V Sjöblom
- J:29 "Publications of interest to the Baltic Fish Com-
mittee"

REFERENCE PAPERS TO THE BALTIC FISH COMMITTEE

- B:21 R Oeherst "Some aspects of planning of acoustic stock esti-
mation"
- G:16 T K Stokes "Assessing the effects of age-dependent natural
mortality, changes in selection at age and dis-
cards using the method of Jones (1961)"
- G:64 E W Koester "Analysis of selected problems in calculating
yield per recruit curves for marine fish stocks"
- H:12 D W McKay, "Report on an acoustic survey for sprats in the
F Armstrong western North Sea. January 1986"
and
J R Hutcheon

- H:32 V N Feldman "Quelques traits particuliers de la répartition et de la biologie du sprat de la Mer du Nord en fonction de sa différenciation à l'intérieur de la population"
- H:58 J Alheit "Reproductive biology of sprat, Sprattus sprattus: factors determining annual egg production"
- H:66 P Degnbol "Acoustical survey in Skagerrak-Kattegat and the et al. western Baltic in August-September 1985"

K - SHELLFISH COMMITTEE

- K:1 Report of Activities.
- K:2 P M J Shelton "A biological tag for recording moult histo-
and ries in crustaceans"
C J Chapman
- K:3 Withdrawn.
- K:4 E M Nilssen, "Catch and size-selection of Pandalus borealis
Ref.B R Larsen in a bottom trawl and implications for popu-
and lation dynamics analyses"
C C E Hopkins
- K:5 B M Thompson "Estimation of the stock size of adult
and Nephrops from larvae surveys in the Irish Sea
J H Nichols in 1985"
- K:6 P Walker "The precision of estimates of mussel biomass
and by zig-zag survey"
M D Nicholson
- K:7 S R J Lovewell "Further pot selectivity experiments in the
Ref.B and fisheries for lobster and crab on the east
J T Addison coast of England"
- K:8 M J Figueiredo "Length and sex composition of Nephrops stocks
in several areas off the Portuguese coast"
- K:9 M J Figueiredo "Some studies on the reproductive cycle of
Nephrops in several areas off the Portuguese
coast" *Withdrawn.*
- K:10 M J Figueiredo "Nephrops norvegicus associated fauna off the
et al. Portuguese coast"
- K:11 B I Berenboim "Soviet investigations on shrimp (Pandalus
et al. borealis) in the Barents Sea and Spitsbergen
area in May 1985"
- K:12 R Bertran "Observations sur le cycle de reproduction du
et J Lorec homard européen (Homarus gammarus) en capti-
vité"
- K:13 R Bertran, "Caractéristiques de l'abri du jeune homard
J Y Gautier européen (Homarus gammarus)"
et J Lorec
- K:14 A M Caramelo "An assessment of Algarve Nephrops stock"
- K:15 E M Nilssen "Biological variation between and within popu-
and lations of the deep-water prawn Pandalus
C C E Hopkins borealis in two north Norwegian fjords"
- K:16 P Berthou "L'analyse des isotopes stables de la coquille
et al. appliquée à la détermination de l'âge de
quatre bivalves du Golfe Normano-Breton
(Manche occidentale)"

- K:17 P Descamps et J Labastie "Etude de la pêche de coquille St. Jacques dans les pertuis Charentais entre 1978 et 1985"
- K:18 D Buestel et al. "Anomalies observed during culture of the scallop Pecten maximus in the presence of a bloom of the dinoflagellate Gyrodinium aureolum" *Withdrawn.*
- K:19 G Y Conan "Mating and terminal molt in the genus Chionoecetes. Incidence on fishery management"
- K:20 Withdrawn.
- K:21 Withdrawn.
- K:22 M Moriyasu "Tag loss of the American lobster (Homarus americanus) in relation to molt stage at tagging"
- K:23 J Worms and M Lanteigne Ref.B Sess.V "The selectivity of a scallop (Placopecten magellanicus) Digby dredge"
- K:24 J Worms and L A Davidsen "The variability of southern Gulf of St. Lawrence sea scallop meat weight-shell height relationships and its implications for resource management"
- K:25 D A Stolyarenko Sess.W "Data analysis of trawl shrimp survey with spline approximation of stock density"
- K:26 K Hansen and K Nedreaas "Measurements of Iceland scallop (Chlamys islandica Müller) in the Spitsbergen and Bear Island regions".
- K:27 A Koronkiewicz "Growth and life cycle of squid Illex argentinus from Patagonian and Falkland Shelf and Polish fishery of squid in this region, 1978-85"
- K:28 R Meixner Ref.F "The predation of mussels by eiders (Somateria mollissima) and its effect on German mussel farming"
- K:29 Ana Maria Leal Ref.F "The growth of oysters Crassostrea angulata (Lamarck, 1818) in Albufeira lagoon" *Withdrawn*
- K:30 P-G Sauriau "Echantillonnage des populations naturelles de mollusques compétiteurs trophiques des huîtres cultivées Crassostrea gigas du bassin de Marennes-Oléron - aspects méthodologiques"
- K:31 A G Martin et al. "Mise au point d'une méthode d'estimation du recrutement en huîtres plates (Ostrea edulis L.) sur coques de moules en suspension"
- K:32 J M Sornin and D Delmas Ref.F "Evolution of the quality and the quantity of suspended matters in a shellfish culture pond: relation with sedimentation and biodeposition" *Withdrawn.*

- K:33 Withdrawn.
- K:34 A Hylan "Results of stratified trawl surveys for
B Tveranger shrimps (Pandalus borealis) in the Barents Sea
and and in the Svalbard region in July-
P Øynes August 1986"
- K:35 Withdrawn.
- K:36 C Bacher, "A methodology for stock assessments of
Ref.F et al. cultivated oysters along the French Atlantic
coasts"
- K:37 E M Martens "Protandric hermaphroditism in the brown
and shrimp, Crangon crangon (L.), and its effects
F Redant on reproductive potential and recruitment"
- K:38 A Bodoy "Assessments of natural mortality of cul-
Ref. F tivated oysters (Crassostrea gigas) in the bay
of Marennes-Oléron"
- K:39 "List of publications of interest to the
Shellfish Committee"
- K:40 F Sardá, "Different aspects about capture and sampling
and of Aristeus antennatus Risso, 1816 (Deca-
A Gordoa poda:Penaeidae)"
- K:41 K E Naas "Effects of turbulence and different types of
et al. fertilizers on phytoplankton and oyster larvae
(Ostrea edulis) in mesocosms"
- K:42 F Sardá "Analysis of major elements in Nephrops nor-
Poster et al. vegicus (L.)"

REFERENCE PAPERS FOR THE SHELLFISH COMMITTEE

- B:12 J H B Robertson "Square and diamond mesh trawl codend selec-
et al. tion trials on Nephrops norvegicus (L.)"
- B:45 G Thorsteinsson "On the behaviour of Nephrops against bottom
trawl as observed with an underwater TV"
- E:27 J F Uthe, "Management of the cadmium-contaminated
C L Chou lobster fishery at Belledunne, New Brunswick,
and Canada"
D P Scott
- G:4 R Jones "Length composition analysis. The importance
of choosing the correct input growth para-
meters"
- G:21 B I Berenboim "On predator-prey relationship between cod and
et al. shrimp Pandalus borealis in the Barents Sea"
- G:36 G R Lilly "Propellor clam (Cyrtodaroa siliqua) from
and stomachs of Atlantic cod (Gadus morhua) on the
S Meron southern Grand Bank (NAFO Div. 3NO): natural
prey or an instance of net feeding?"

L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

- L:1 Report of Activities
- L:2 M Pilar "Vertical distribution of fish larvae off Namibia"
Poster Olivar *Withdrawn*
and
P Rubiés
- L:3 B R Kuipers "Interaction between juvenile plaice (Pleuro-
Ref. G et al. nectes platessa) and benthos in a tidal flat
Sess. area"
R
- L:4 F Creutzberg "The role of the lesser weever (Trachinus
Ref. and vipera) and the dab (Limanda limanda) in
G G A Duineveld the benthic system of the southern North Sea"
Sess.
R
- L:5 P Lassus "Distribution de Dinophysis cf. acuminata, et des
et al. espèces associées en Baie de Vilaine pendant l'été
1985" [Distribution of Dinophysis cf. acuminata and
associated species in Vilaine Bay during summer
1985]
- L:6 A Kellerman "Trophic relationships between early stages of
icefish (Notothenoidei; Channichthyidae), and
euphausiids and ichthyoplankton during FIBEX 1981"
- L:7 S Økland, "Development of neuromast cells and their cupula in
Ref. V Øiestad halibut larvae (Hippoglossus hippoglossus L.) and
F and L Berg their destruction in different types of rearing
systems" *Withdrawn*.
- L:8 G Schneider "The significance of coelenterates in ammonia excretion
and regeneration in pelagic ecosystems"
- L:9 A D Rijnsdorp "On the mechanism of energy allocation over reproduction
Ref. and somatic growth with particular reference to female plaice: a hypothesis"
G+H
- L:10 A Corten "Biological indications of a change in North Sea
Ref. C circulation in the 1970's"
Sess. O
- L:11 M Vincx "Seasonal fluctuations of Sabatieria punctata (Nemato-
and C Heip toda) in a silty-sand station off the Belgian coast"
- L:12 R L Herman, "Benthic studies of the Southern Bight of the North
K van Sea. XI. The meiofauna of the Belgian waters in the
Holsbeke period 1980-81"
and C Heip
- L:13 G Vranken "A re-evaluation of marine nematode productivity"
et al.

- L:14 O Hamerlynck "Life history, food consumption and resource partitioning in two sympatric gobies Pomatoschistus minutus and P. lozanoi in the Belgian coastal waters"
Sess. C Help and R F Redant
- L:15 A Catrysse, "Growth, production and food consumption of a fish community in the shallow sub-tidal of a sandy beach"
POSTER E Van Landschoote and O Hamerlynck
Sess.R
- L:16 C Vanosmael "A comparative study of the macrobenthos of three sandbanks in the Belgian coastal waters in 1980-1984. Has sand exploitation an influence on the macrobenthos?"
Ref.E and C Help
Sess.T
- L:17 Z Ringer "Phytoplankton investigations of the southern Baltic"
- L:18 R Gradinger "Phytoplanktological investigations in Fram Strait in summer 1984"
- L:19 B Babenerd "Long-term observations of some hydrographical, chemical, and planktological variables in Kiel Bay, 1957-1975"
Ref.C
Sess.Q
- L:20 M Gillbricht "Phytoplankton and nutrients near Helgoland"
Ref.C
Sess.Q
- L:21 P Cornillon "Time series analysis of thermal structure in the Gulf of Maine and Georges Bank in relation to biological variability"
Sess. et al.
Q
- L:22 Th. Smayda "Patterns, variations, and long-term changes in environment and plankton dynamics in Narragansett Bay based on a 25-year time series" *Withdrawn.*
Sess.
Q
- L:23 Withdrawn.
- L:24 M Grosslein "Use of trawl survey data for mapping yield potential of fishery resources of the northeast shelf ecosystem"
Ref. et al.
G+H
Sess.R
- L:25 B J "Biodynamics of the sea: preliminary observations on high dimensionality and the effect of physics on predator-prey interrelationships"
Ref.C, Rotschild and G+H
Sess. T R Osborn
O
- L:26 "Report of the Working Group on Exceptional Algal Blooms, Hirtshals, 17-19 March 1986"
Ref.E
- L:27 "Fifth report of the Benthos Ecology Working Group, Ostende, 12-15 May 1986"
Ref.E
- L:28 E Houde "Potential for growth, duration of early life stages and regulation of recruitment in marine fish"

- L:29 F Beyer "On the need for amendments and agreements in marine ecological terminology"
- L:30 Withdrawn.
- L:31 K Richardson "Field and laboratory trials with a multi-channel Ref. et al. fluorometer used to determine in situ concentrations of plant pigments"
- L:32 K Richardson "Herring larvae distribution, plankton production Ref. et al. and hydrography in the Buchan Area (Scotland) in C+H September - October, 1985"
Sess.0
- L:33 P Munk "A comparison between the standard-IKMT and the Ref.H Methot-IKMT for catching 6-month-old herring larvae"
- L:34 P Munk "The distribution of 6-month-old herring larvae in Ref.H the North Sea"
Sess.0
- L:35 W Kittel "Macroplankton of the North Atlantic (March-April 1985)"
- L:36 E Jönsson "Observations on the distribution and gut contents and E of fish larvae and environmental parameters, south- Fridgeirs- west of Iceland"
son
- L:37 G Robinson "Plankton Identification Sheets, Editor's Report, Ref. 1985-86"
Pub.
- L:38 "Publications of interest to the Biological Oceanography Committee"
- L:39 "Report of the Working Group on Primary Production, Texel, 2-4 September 1986"

REFERENCE PAPERS FOR THE BIOLOGICAL OCEANOGRAPHY COMMITTEE

- C:8 G Radach, "Annual cycles and phenomena on other time scales in J Berg temperature, salinity, nutrients and phytoplankton and at Helgoland Reede, 1962-84"
E Hagmeier
- C:15 B Hansen, "Evidence for an anticyclonic circulation on Faroe D Ellett Bank"
and
D Meldrum
- C:37 R R Dickson "North winds and production in the eastern North At-
et al. lantic"
- E:18 D J Swift "Bioturbation of contaminated sediments in the and north-east Irish Sea"
P J Kershaw
- E:41 D Maertens "Environmental effects of sand extraction, dredging and dumping on the Belgian continental shelf: 1. The Western sand extraction area"

- E:42 D Maertens "Environmental effects of sand extraction, dredging and dumping on the Belgian continental shelf: 2. Dumping of dredging spoil and deepening of navigation channels"
- E:49 A T Pruter "Marine debris - a growing problem"
- G:14 J Casey, "Stomach contents of cod and whiting caught during
J Dann the English groundfish survey of the North Sea in
and 1982 and 1984"
D Harding
- G:46 L Tito de "Trophic contribution of meiobenthic copepods to
Morais young soleid recruits"
et
J-Y Bodliou
- G:66 W Schwarzbach "Geographical distribution and trophic ecology
of the demersal fish fauna in the eastern and
southern Weddell Sea"
- G:86 G J Cranmer "The food of the haddock (Melanogrammus aeglefinus)
in the North Sea"

M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE

- M:1 Report of Activities (and an Appendix)
- M:2 Withdrawn.
- M:3 G Struthers and D Stewart "The composition and migrations of the adult salmon stock in the upper River Tummel in 1985"
- M:4 G Struthers and D Stewart "Observations on the timing of migration of smolts from natural and introduced juvenile salmon populations in the upper River Tummel, Scotland"
- M:5 W M Shearer "The relationship between catches and stocks in Scottish salmon rivers, with particular reference to the River North Esk"
- M:6 "Publications of interest to the Anadromous and Catadromous Fish Committee"
- M:7 E C E Potter and J Browne D G Reddin "Recoveries of coded wire microtags from salmon (Salmo salar L.) caught at West Greenland in 1985"
- M:8 "Report of the Meeting of the Special Study Group on the Norwegian Sea and Faroes Salmon Fishery, Copenhagen, 15-16 March 1986"
- M:9 D G Reddin and P B Short "Identification of North American and European Atlantic salmon (Salmo salar L.) caught at West Greenland in 1985"
- M:10 E Verspoor "Genetic discrimination of European and North American Atlantic salmon using multiple polymorphic protein loci: potential for stock separation in the West Greenland fishery"
- M:11 H de Pontual and P Prouzet "Atlantic salmon stocks discrimination by scale-shape analysis"
- M:12 H de Pontual and P Prouzet "Scale-shape measurements to discriminate between Atlantic salmon stocks"
- M:13 P Gros and P Prouzet "Modèle stochastique prévisionnel des captures de saumons de printemps (Salmo salar) dans l'Aulne (Bretagne): éléments d'aménagement de la pêche" [Forecasting stochastic model of spring salmon catches (Salmo salar) on Aulne River (Brittany): elements of fishery management]
- M:14 H Troadec and P Prouzet "Essai de détermination automatique de l'âge et de la croissance du saumon atlantique (Salmo salar L.) par analyse de l'image de leurs écailles"

- F:25 S Albrektsen, "The effect of a short time exposure to
R Nortvedt different temperature and salinity regimes on
and survival of maturing Atlantic salmon and eyed
O Torrissen eggs, and changes in blood and seminal plasma
during the spawning period"
- F:26 R Nortvedt "The timing of emergence of Atlantic salmon and
rainbow trout incubated on different sub-
strates"

N - MARINE MAMMALS COMMITTEE

- N:1 Report of Activities.
- N:2 Withdrawn.
- N:3 D D Tormosov "Influence of anthropogenic factors on be-
Ref.E and haviour and distribution of the Baltic pinni-
A G Esipenko peds"
- N:4 A Bjørge "Status of marine mammal habitat protection in
Norway"
- N:5 R Duguay "Cétacés et Pinnipèdes observés sur les côtes
françaises de l'Atlantique et de la Manche en
1985"
- N:6 R Duguay "Cétacés et Pinnipèdes de la région arctique et
subarctique observés sur les côtes de France"
- N:7 L Caruel "Les fractures osseuses chez les Cétacés"
et
R Duguay
- N:8 O Stenman "The grey seal population and its protection in
Finland in 1975 to 1986" *Withdrawn.*
- N:9 E Helle "Size and reproduction of the ringed seal
population in the northern Gulf of Bothnia in
1975-1986"
- N:10 S Durant "The effects of hunting on ringed seals (Phoca
and hispid) in the Baltic"
J Harwood
- N:11 Withdrawn.
- N:12 C C Kinze "On the distribution of the harbour porpoise
(Phocoena phocoena) in Danish waters"
- N:13 B Helander "Survey of grey seal Halichoerus grypus and
harbour seal Phoca vitulina along the Swedish
Baltic coast 1975-84"
- N:14 T Sjöåsen "The cause of death among grey seal yearlings
in the Baltic 1974-85"
- N:15 A Bergman, "High frequency of skeletal deformities in
M Olsson and skulls of the Baltic grey seal"
S Reiland
- N:16 N M Foster "Possible effects of marine protected area
management on marine mammal behaviour"
- N:17 "Publications of interest to the Marine Mammals
Committee, 1985"

MINI-SYMPOSIUM ON POPULATION GENETICS IN REGARD TO
FISHERIES AND MARICULTURE

- | | | |
|--------|-----------------------------------|--|
| No. 1 | | Withdrawn. |
| No. 2 | L I Koval | "Intrapopulation differentiation of the North Sea sprat, <u>Sprattus sprattus</u> L., in phenotypes of malate dehydrogenase" |
| No. 3 | J A Hutchings
and
R A Myers | "The economics of artificial selection for reducing the proportion of mature male parr in natural populations of Atlantic salmon, <u>Salmo salar</u> " |
| No. 4 | A Crosby
Longwell | "Genetic variability and recruitment" |
| No. 5 | F W Allendorf | "Biochemical and morphological detection of unintentional genetic changes in trout brood stocks" |
| No. 6 | V Sbordini | "Unintentional genetic changes in cultivated populations of the Kuruma prawn (<u>Penaeus japonicus</u>)" |
| No. 7 | T Paaver | "Genetic variability of proteins and differentiation of wild and cultured populations of the common carp (<u>Cyprinus carpio</u>)" |
| No. 8 | O Ring | "Comparison of wild and hatchery populations of Arctic char at a polymorphic esterase locus" |
| No. 9 | J Hammar | "Genetical implications of fish introductions: the Arctic char syndrome" |
| No. 10 | I Kallio
and
M L Koljonen | "Management of the salmon stock in the Tornionjoki River" |
| No. 11 | I Kallio
and
V Pruuki | "The diversity and seasonal spawning migration of salmon (<u>Salmo salar</u> L.) in the Tornionjoki River" |
| No. 12 | E Verspoor | "Reduced genetic variability in hatchery stocks of Atlantic salmon in eastern Canada" |

Withdrawn

Withdrawn

PAPERS FOR THEME SESSIONS

Theme Sessions

- O Circulation patterns and advection in relation to recruitment problems (Convener: Mr Rodney Jones):
C:11, C:13, G:45, H:18, H:23, H:36, H:39, L:10, L:25, L:32, L:34, M:22.
- P Assessment methodology (Conveners: R S Bailey, J G Pope and B Vaske)
D:1, D:2, D:8, D:10, D:14, G:4, G:8, G:10, G:37, G:53, G:59, G:64, G:67, G:68, G:74, H:2.
- Q Multi time-series data sets for biological events affecting fish stock abundance in large marine ecosystems (Conveners: Dr. K. Sherman and Prof. J. Meincke)
C:7, C:8, C:10, C:33, C:37, G:23, G:24, G:89, G:94, H:17, H:64, L:19, L:20, L:21, L:22.
- R Benthos-fish trophic interrelationships (Convener: Prof. N. Daan)
G:14, G:21, G:25, G:30, G:36, G:46, G:47, G:48, G:56, G:66, G:86, L:3, L:4, L:14, L:15 (Poster), L:24.
- S Effects of contaminants on the reproductive success and recruitment of marine fish and shellfish (Convener: Dr. C. J. Sindermann)
E:10, E:11, E:12, E:14, E:19, E:21, E:25, E:26, E:29, E:34, E:46, F:11, F:12, F:13, F:38.
- T Influence of suspended matter on biota (Convener: Dr J Portmann)
E:7, E:9, E:13, E:17, E:18, E:20, E:32, E:33, E:41, E:42, E:45, L:16.
- U Acoustic methods (Convener: Prof. K Olsen)
B:2, B:5, B:6, B:8, B:17, B:21, B:31, B:32, B:35, B:37, B:38, B:39, B:40, B:41, B:42, B:43, B:44, H:62, H:70, J:5.
- V Gear Selectivity (Convener: Mr G Thorsteinnsson)
B:12, B:13, B:16, B:18, B:19, B:28, B:29, H:43, K:23.

ctd.

- W Design and analysis of trawl surveys (Convener: Mr J G
Pope)
- B:9, D:3, D:4, D:5, D:6, D:9, D:11, D:13, D:15, D:17, D:18,
G:2, G:3, G:13, G:15, G:38, G:39, G:42, G:55, G:75, G:91,
G:92, H:44, J:22, K:25.
- X ACFM and Assessment Working Group reports (Convener: Mr J.
Jakobsson)
- G:40, G:41, G:54.

ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT

- ACFM:1* "Agenda for ACFM Consultations at the 1986 Statutory Meeting"
- ACFM:2* "Draft Agenda, ACFM Meeting, 30 October - 6 November 1986"
- "Draft Schedule and Terms of Reference for 1987 Assessment Working Groups"

ASSESSMENT WORKING GROUP REPORTS - 1986

- C.M.1986/Assess:1 "Report of the Working Group on Assessment of Hake Stocks, Copenhagen, 26 June - 2 July 1985"
- C.M.1986/Assess:2 "Working Group on the Appraisal of Sardine Stocks in Divisions VIIIC and IXa, Copenhagen, 9-13 September 1985"
- C.M.1986/Assess:3 "Report of the Blue Whiting Assessment Working Group, Copenhagen, 25 September - 2 October 1985"
- C.M.1986/Assess:4 "Report of the Arctic Fisheries Working Group, Copenhagen, 25 September - 2 October 1985"
- C.M.1986/Assess:5 "Report of Working Group on Fisheries Units in Sub-areas VII and VIII, Nantes, 16-10 September 1985"
- C.M.1986/Assess:6 "Report of the ad hoc Study Group on Management Measures for the Small-Meshed Fishery in Division IIIa, Charlottenlund, 22-25 October 1985"
- C.M.1986/Assess:7 "Report of the Atlanto-Scandian Herring and Capelin Working Group, Copenhagen, 29 October - 1 November 1985"
- C.M.1986/Assess:8 "Report of the Working Group on North Atlantic Salmon, Woods Hole, Massachusetts, USA, September 16-20 1985"
- C.M.1986/Assess:9 "Report of the ad hoc Multispecies Assessment Working Group, Copenhagen, 13-19 November 1985"
- C.M.1986/Assess:10 "Report of the Working Group on Methods of Fish Stock Assessments, Copenhagen, 20-26 November 1985"
- C.M.1986/Assess:11 "Report of the Working Group on Cod Stocks off East Greenland, Copenhagen 14-22 January 1986"
- C.M.1986/Assess:12 "Report of the Mackerel Working Group, Copenhagen 17-26 February 1986"
- C.M.1986/Assess:13 "Report of the North Sea Flatfish Working Group, Copenhagen, 27 February - 5 March 1986"
- C.M.1986/Assess:14 "Report of the Irish Sea and Bristol Channel Working Group, Copenhagen, 4-11 March 1986"
- C.M.1986/Assess:15 "Report of the Industrial Fisheries Working Group, Copenhagen, 7-13 March 1986"

- C.M.1986/Assess:16 "Report of the North Sea Roundfish Working Group, Copenhagen, 13-25 March 1986"
- C.M.1986/Assess:17 "Report of the North Atlantic Salmon Working Group, Copenhagen, 17-26 March 1986"
- C.M.1986/Assess:18 "Report of Division IIIa Demersal Stocks Working Group, Copenhagen, 17-20 March 1986"
- C.M.1986/Assess:19 "Report of the Herring Assessment Working Group for the Area South of 62° N, Copenhagen, 1-11 April 1986"
- C.M.1986/Assess:20 "Report of Working Group on Assessment of Pelagic Stocks in the Baltic, Copenhagen, 7-17 April 1986"
- C.M.1986/Assess:21 "Report of Working Group on Assessment of Demersal Stocks in the Baltic, 14-23 April 1986"
- C.M.1986/Assess:22 "Report of Baltic Salmon and Trout Assessment Working Group, Tallinn, USSR, 18-23 April 1986"
- C.M.1986/Assess:23
Ref.D "Working Group on the Appraisal of Sardine Stocks in Divisions VIIIc and IXa, Copenhagen, 23-29 April 1986"
- C.M.1986/Assess:24
by Ø Ulltang "ACFM comments on stock assessment working group reports: a supplement (for working groups) to the ACFM report of November 1985 and May 1986"

REFERENCE PAPERS FOR THEME SESSION X

- G:40 B Mesnil "Towards more consistent advice on North Sea demersal stocks"
- G:41 B Mesnil "Alternative options in the assessment of North Sea haddock and whiting stocks"
- G:54 A Corten "Application of the results from the International Young Fish Surveys in fisheries management in recent years"

ACMP - ADVISORY COMMITTEE ON MARINE POLLUTION

- ACMP:1* Agenda for the Advisory Committee on Marine Pollution.
- ACMP:2* "Draft 1986 ACMP Report"
- ACMP:3* 1987 requests from the Oslo and Paris Commissions
- ACMP:4* 1987/88 requests from the Helsinki Commission
- ACMP:5* Report on the results of I/TM/MS

ADDITIONAL PAPERS FOR MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:51 B Bayne "Preliminary summary of the results of the IOC
 and Workshop on Biological Effects Measurements"
 G Kullenberg
- E:52 P Loring "ICES Intercalibration on Trace Metals in Marine
 Sediments"

D 17, 18

G 53

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L 10

R 30