

INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA
CONSEIL INTERNATIONAL POUR L'EXPLORATION DE LA MER



D.1.a/87

November 1987

Dear Sir/Ms,

We wish to draw your attention to the following 1987 Council Meeting papers which were never received or withdrawn, and as a result not included in our mailing:

- ✓ Fish Capture Cttee: B:8, B:11, B:17, B:22, B:24, B:25, B:26, B:32, B:36; B:37, B:41, B:43,
- ✓ Hydrography Cttee: C:19, C:29(Poster); C:32, C:33, C:40
- ✓ Statistics D:2 (Poster), D:3 (Poster), D:4, D:7, D:12
- ✓ MEQC E:9, E:10, E:11, E:15, E:35
- ✓ Mariculture Cttee: F:3, F:5, F:9, F:10, F:13, F:14, F:15, F:23, F:28, F:30, F:31, F:34, F:39, F:41, F:43, F:45
- ✓ Demersal Fish Cttee: G:2, G:3, G:11, G:12, G:15, G:16, G:18, G:19, G:23 G:25, G:39, G:40, G:41, G:44, G:45, G:47, G:65
- ✓ Pelagic Fish Cttee: H:13, H:14, H:15, H:18, H:19, H:24, H:27, H:33, H:51^{H:50}, H:52, H:53,
- ✓ Baltic Fish Cttee: J:3, J:6, J:7, J:20
- ✓ Shellfish Cttee: K:7-K:11, K:15, K:16, K:19, K:23, K:29, K:30, K:35, K:38 K:40, K:41, K:42, K:54
- ✓ BOC: L:2, L:7, L:9, L:13, L:16, L:20, L:33, L:34, L:35, L:36
- ✓ Anacat Cttee: M:4, M:17, M:23
- ✓ Marine Mammals: N:3
- ✓ Mini-Symposium: Nos. 5-6, 12

Sincerely yours

ICES Librarian

Fol. 41

Fisheriödirektoratet

Publicerat

INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA
CONSEIL INTERNATIONAL POUR L'EXPLORATION DE LA MER

Contents

Council Meeting 1987

CONTRIBUTIONS TO BE PRESENTED AT THE 75TH STATUTORY MEETING

	<u>Page</u>
Gen General Assembly Reports and Papers of General Interest	1
Del Delegates Meetings	2
Fi Finance Committee	3
Pub Publications Committee	3
A Consultative Committee	4
B Fish Capture Committee	5
C Hydrography Committee	8
D Statistics Committee	11
E Marine Environmental Quality Committee	13
F Mariculture Committee	16
G Demersal Fish Committee	19
H Pelagic Fish Committee	24
J Baltic Fish Committee	28
K Shellfish Committee	30
L Biological Oceanography Committee	34
M Anadromous and Catadromous Fish Committee	37
N Marine Mammals Committee	39
Mini-Symposium on "Recruitment Processes in Marine Ecosystems"	40
Papers for Theme Sessions	41
ACFM Advisory Committee on Fishery Management	42
Assessment Working Group Reports	43
ACMP Advisory Committee on Marine Pollution	45

GEN - GENERAL ASSEMBLY REPORTS AND PAPERS OF GENERAL INTEREST

- Gen:1 Observers' reports from cooperating organisations"
- Gen:2 "ICES activities in 1986/1987"
- Gen:3 "Elections of standing scientific Committee Chairmen at
the 75th Statutory Meeting" (E + F)
- Gen:4 "Advance Release of Tables 1-6 of Bulletin Statistique,
Vol. 71, 1986" *etc moffatt*

DEL- DELEGATES DOCUMENTS

- Del:1* "Audited Accounts for the financial year 1985/1986 with balance sheet at 31/10 1986"
- Del:2* "Preliminary report on administration for the year 1 November 1986 to 1 October 1987"
- Del:3* "Report on activities, 1987"
- Del:4* "Estimated accounts for the financial year 1986/1987"
- Del:5* "Draft budget for the financial year 1987/1988" (E + F)
- Del:6* "Draft Forecast Budget for the financial year 1988/1989" (E + F)
- Del:7* "Elections and appointments by the Council at the 75th Statutory Meeting" (E + F)
- Del:8* "Appointment of new General Secretary"
- Del:9* "Facilitation of research in national economic zones. ICES Manual"

*For Delegates only.
(E+F) = in English and French.

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* Sales of ICES publications

Pub:4* Report from the Editors of the Journal du Conseil for ICES
Year 1986-1987
 anacat

Pub:5* New publication series: Techniques in Marine Environmental
Sciences"

REFERENCE PAPERS FOR PUBLICATIONS COMMITTEE

F:46 Report of the Editor of the Disease Sheets

L:42 Plankton Identifications Sheets: Editor's Report,
1986/1987

*For the relevant Committee only.

A - CONSULTATIVE COMMITTEE

- A:1* Agenda for the Consultative Committee.
- A:2* "Report of the meeting of the Programme Planning Group, ICES Headquarters, 21-22 May 1987"
- A:3* "Report of the IREP Steering Group"
- A:4* "Report on Second Session of the IOC/FAO Guiding Group of Experts on the Programme of Ocean Science in Relation to Living Resources (OSLR), FAO, Rome, 8-12 June 1987"
- A:5* "Minutes of ACFM Meeting, Copenhagen, 4-14 May 1987"
- A:6* "List of Recommendations for Scientific Research from Assessment and Related Working Group Reports"
- A:7* "Draft ACMP Minutes, Copenhagen, 17-26 June 1987"

*For the relevant Committee only.

B - FISH CAPTURE COMMITTEE

- B:1 Report of Activities, 1986
- B:2 K G Foote "Dependence of equivalent beam angle on sound speed"
Sess. O
- B:3 K G Foote "Relation of maximum and average target strengths for the
Sess. same fish"
O
- B:4 K G Foote "Target strength of polarized fish"
Sess. O
- B:5 K G Foote "Scheme for displaying fish position data in real time"
Sess. O
- B:6 K G Foote, "Target strength of tiny roach"
Sess. T Lindem
O and
A Brabrand
- B:7 P A M Stewart "Investigating the capture efficiency of survey gears"
Sess.P and
R D Galbraith
- B:8 Withdrawn.
- B:9 D N MacLennan "Precision of acoustic fish stock estimates"
Sess.O and
I G MacKenzie
- B:10 O A Misund "Position prediction of herring schools in purse-seine
Sess.O capture situations"
- B:11 Withdrawn.
- B:12 S E Shevtsov "Trawl selectivity in the mixed herring and sprat fishery
in the Baltic Sea"
- B:13 S Efanov "Influence of the form of fish body and mesh on proper-
et al. ties of trawls"
- B:14 O Hagström "Measurement of door spread and headline height of the
Sess.P GOV trawl during IYFS 1987"
- B:15 A Engås "Near-bottom sampling with bottom and pelagic trawl"
Sess. and
P O R Godø

- B:16 A Engås "The effect of different bridle/sweep lengths on length
Sess. and composition of bottom sampling trawl catches"
P O R Godø
- B:17 B Isaksen "Selectivity of codends with different mesh configu-
and rations" *Withdrawn.*
J W Valdemar-
sen
- B:18 A Bjordal "Swivel connected gangions in mechanized longlining -
effect on catch rates and operation"
- B:19 S Løkkeborg "Fishing experiments with an alternative longline bait
based on nylon bags"
- B:20 A Bjordal "Testing of a new hook design in the longline fishery for
tusk (Brosme brosmé) and ling (Molva molva)"
- B:21 F A Veenstra "Noise levels and sources onboard Dutch fishing cutters"
- B:22 *Withdrawn.*
- B:23 J Casey "Selectivity of square mesh pelagic trawls for mackerel:
Ref.H and preliminary results"
S Warnes
- B:24 *Withdrawn.*
- B:25 P Degnbol "A calibration method for split beam echo sounders
Sess. including calibration of directivity compensation and
O level" *Withdrawn.*
- B:26 *Withdrawn.*
- B:27 S Ehrich "Comparative fishing by the research vessels "Walther
Sess. Herwig" and "Anton Dohrn" using the French '36/47 m GOV
P trawl and the German '180 foot herring trawl"
- B:28 S Ehrich "The portion of young cod escaping under the GOV-trawl
Sess. rigged with a heavy bobbin footrope"
P
- B:29 K Olsen "Vertical migration in fish, a source of ambiguity in
Sess. fisheries acoustics?"
O
- B:30 N Diner "Fish school behaviour during echo-survey observed by
Sess. et acoustic devices"
O J Masse
- B:31 P Y Dremiere, "Essais de pêche du germon au filet maillant dérivant"
Sess. J P George
O et
P G Gestin

- B:32 F Theret, "Développement des chaluts-jumeaux et chaluts à 3 ailes
Sess. M Meillat et
0 J P George en Bretagne" *Withdrawn.*
- B:33 "Report of the Working Group on Fishing Technology and Fish Behaviour, Hamburg, 4-6 May 1987"
- B:34 "Report of the Working Group on Fisheries Acoustic Science and Technology, Seattle, USA, 28-29 June 1987"
- B:35 E Ona "The equivalent beam angle and its effective value when
Sess. applying an integrator threshold"
0
- B:36 Withdrawn.
- B:37 E Ona "Water flow pattern created by a rotating ground gear and
Sess. and its relevance to bottom trawl sampling" *Withdrawn.*
P A Engås
- B:38 K Lange "Wind tunnel tests with cambered trawl doors of the V-type"
- B:39 J M Franco, "Synergistic effects of different baits on the same hook
A Bjordal, in the longline fishery for hake (Merluccius merluccius)
and and torsk (Brosme brosme)"
S Løkkeborg
- B:40 H Daartz, "Experimental investigations on the dynamical behaviour
M Paschen of otter boards"
and
H Stengel
- B:41 R Person "Système de traitement numérique pour echo-sondeur"
Sess. and
0 A Weill *Withdrawn.*
- B:42 P Souid "Digitization for automatic classification of fish
Sess.0 schools"
- B:43 I Svellingen "In situ target strength observations on sardine"
Sess.0 *Withdrawn.*
- B:44 G Shepherd "Diurnal variation in catchability during bottom trawl
Sess. and surveys off the northeastern United States"
P J Forrester
- B:45 K Bouwman "Low cast engineering to improve working procedures and
and safety onboard Dutch beamtrawlers"
B van Marlen

REFERENCE PAPERS FOR THE FISH CAPTURE COMMITTEE

C - HYDROGRAPHY COMMITTEE

- C:1 "Report of the Marine Chemistry Working Group, Copenhagen, 16-20 February 1987"
Ref.E
- C:2 L G Golmen "Profiling the upper ocean by means of the towed vehicle
"SEASOAR"
- C:3 J Piechura "Oceanographic conditions in the Southern Baltic during
Ref.L 1986"
- C:4 E Buch "Timeseries of temperature and salinity at the Fylla Bank
 and section, West Greenland"
 M Stein
- C:5 P A Yeats "Modelling of geochemical processes in the coastal zone"
Ref.E and
 J M Bewers
- C:6 T Gytre "A new miniature instrument for in situ measuring, processing,
 recording and display of oceanographic properties"
- C:7 "Report of the Working Group on Marine Data Management,
 De Bilt, Netherlands, 21-24 April 1987"
- C:8 "Report of the Study Group on Aerospace Remote Sensing,
Ref.L Copenhagen, 6-8 April 1987"
- C:9 "Report of the Working Group on Oceanic Hydrography, De
 Bilt, Netherlands, 23-24 April 1987"
- C:10 "Report of the Working Group on Shelf Seas Oceanography,
 Bergen, 12-14 May 1987"
- C:11 H D Dooley "Hydro-chemical conditions in the North Sea during the
Ref.H International Young Fish Survey 1987"
- C:12 H D Dooley "On the management of the PEX data set"
Ref.E and
 K Jancke
- C:13 H D Dooley "Hydrographer's Report"
- C:14 J B Sochasky "An algorithm for determining the appropriate meter wheel
 values for sampling of standard depths at hydrographic
 stations"
- C:15 J A Elliott "Recent applications of towed CTD systems to studies of
 and variability and mixing on Canadian east coast continental
 H.Sandstrom shelves"
- C:16 R A Myers "The influence of warm core rings, the position of the
Ref.G and shelf-slope front, and the Gulf stream on recruitment of
 K Drinkwater fish from the northwest Atlantic"

- C:17 R Ljøen "Climatic changes at the North Sea plateau during 1967-1984"
and
R Sætre
- C:18 A Vangriesheim "Long-term observations and measurements of deep-sea near-bottom physical environment on Meriadzek Terrace (2100 m)"
- C:19 Withdrawn.
- C:20 K J Medler "Use of shelf seas CTDs at the Fisheries Laboratory, Lowestoft"
- C:21 D S Kirkwood "Evaporative losses from salinity samples during extended storage"
- C:22 P A Gurbutt "Biological mixing of shelf seas sediments with implications for modelling"
Ref. and
E P J Kershaw
- C:23 K Richardson "Winter nutrient concentrations and primary production in the eastern North Sea"
Ref. and
L O Vagn Olsen
- C:24 L Føyn "Winter/late autumn distribution of nutrients in the North Sea"
Ref.E
- C:25 H Frey "Long-term variation of the hydrographic stratification in the German Bight"
and
G A Becker
- C:26 P König "ZISCH - Circulation and pollutant transfer in the North Sea - first survey results"
Ref. and
E G A Becker
- C:27 U Schauer "A deep cyclonic 'Meddy' in the northeast Atlantic"
- C:28 G Stelzer, "CTD data evaluation for shelf sea investigations"
G A Becker
and
E G Schmidt
- C:29 J Bartsch "Variability of North Sea circulation during the years 1969-1981" *Withdrawn.*
Poster et al.
- C:30 T Wyatt "Saint Peter's thumb, with some views on the circulation of the Norwegian Sea in the late eighteenth century"
Ref.
G
- C:31 T Aarup, "CZCS-scenes from the North Sea"
Ref.L P Holligan
Paper and
and S Groom
Poster
- C:32 T Herra "Hydrographic influences on the amount and distribution of sprat and cod eggs and larvae in the southern Baltic in 1984-1985" *Withdrawn*
Ref.J

- C:33 C M Afonso "Sea surface temperature seasonal variation between the
Dias, Iberian coast (Lisbon) and the Madeira Islands (Funchal)
A Amorim during the period 1981-1985" *Withdrawn.*
and
M das Dores
Vacas
- C:34 T Pohlmann, "Validation of a three-dimensional dispersion model for
Ref. J Backhaus CS137 in the North European Shelf Sea"
E and
D Hainbucher
- C:35 J Bartsch "Numerical simulation of the advection of vertically
and migrating herring larvae in the North Sea"
J Backhaus
- C:36 U Krell "Simulation of the atmospheric transport and deposition
Ref.E of heavy metals into the North Sea"
- C:37 W Puls "Simulation of suspended sediment dispersion in the North
Ref.E Sea"
- C:38 G Radach "Problems of parameterising bio-geochemical processes in
Ref.E environmental models"
- C:39 L Postma "Long term and seasonal water quality modelling of the
Ref.E et al. North Sea and its coastal waters"
- C:40 *Withdrawn.*
- C:41 G J Prangmsma "Using NOAA-AVHRR imagery in assessing water quality
Ref.E and parameters"
J N Roozkrans
- C:42 S M Rowlett "The release of mercury from resuspended sediments"
Ref.E and
Poster P Bedson
- C:43 P Kershaw "Use of $^{234}\text{Th}/^{238}\text{U}$ equilibria to assess particle
Ref.E scavenging and resuspension"
Poster
- C:44 K J Pentreath "Sources and uses of artificial radionuclides as tracers
Ref.MEQC in the marine environment"
Poster
- C:45 A van de "Transport atlas of the southern North Sea"
Poster Giessen
and
L Postma
- C:46 A van de "Water management plan North Sea"
Poster Giessen
and
L Postma

REFERENCE PAPERS FOR THE HYDROGRAPHY COMMITTEE

E:2, E:8, E:26, E:32, G:3, G:60, H:51, J:6, L:29

D - STATISTICS COMMITTEE

- D:1 "Report of the Statistics Committee Liaison Working Group, Copenhagen, 8-9 January 1987"
- D:2 R A Myers "The robustness of lognormal based estimators of abundance" *(Poster) Withdrawn.*
Sess. and
S P Pepin
- D:3 R A Myers "Improved abundance estimation using regression models with discrete error structure" *(Poster) Withdrawn.*
Sess.
S
- D:4 J M Hoenig "Estimators and variances for the exploitation rate $u = (F/Z)(1-e^{-Z})$ " *Withdrawn.*
Sess. and
S H T Wilson Jr.
- D:5 J M Hoenig "The inverse age-length key and its use for estimating ichthyoplankton age composition"
Sess.
S
- D:6 G Gudmundsson "Time series models of fishing mortality rates"
Sess.
S
- D:7 Withdrawn.
- D:8 M Bertignac "Estimation des coefficients de mortalité et de l'abondance des revues à partir de l'analyse d'une pseudo-cohorte dans le cas d'une exploitation par différents métiers"
Sess. et
S Ph. Mogueued
- D:9 A Laurec "Regards statistiques et informatiques sur l'analyse des puissances de pêche et des abondances apparentes"
Sess.S et
K B Péroudou
- D:10 P Gros, "Estimation des paramètres de croissance, apport des techniques de rééchantillonnage (Bootstrap-Jackknife) et des statistiques robustes (médianes et modes)"
Sess. A Laurec et
S et H Dupouy
- D:11 M Boer "Colinéarité entre variabilité individuelle des longueurs aux âges, croissance moyenne et structures démographiques dans l'analyse des fréquences de taille"
Sess. et A Laurec
S
- D:12 Withdrawn.
- D:13 A Laurec "Calibration du recrutement par plusieurs indices d'abondance. Maximum de vraisemblance. Incorporation d'une distribution à priori"
Sess. et A Souplet
S
- D:14 T K Stokes "The detectability of catchability trends from catch-at-age and commercial effort data"
Sess.S and J G Pope
Poster
- D:15 R G Houghton "The consistency of the spatial distributions of young gadoids with time"
Sess.S
Poster

- D:16 U Damm "The estimation of weight at length from the total weight and the length distribution of a sample"
- D:17 ICES
Statistician "Progress Report 1986/1987"
- D:18 O Moura "Principal components analysis: a 'basic' computer pro-
and G Afonso gram"
dos Santos
- D:19 G Stefansson "Analysis of CPUE data from Icelandic trawlers 1973-1987"
Ref.G
- D:20* "Report of the 13th Session of the Coordinating Working
Party on Atlantic Fishery Statistics, Rome, 11-18
February 1987"
- D:21 D J Agnew "On the use of residuals when tuning VPAs with survey
Ref.H data"
- D:22 ICES "An updated description of the ICES statistical area
Statistician (north), statistical sub-areas, divisions, and sub-divi-
sions"

REFERENCE PAPERS FOR THE STATISTICS COMMITTEE

E:24, G:67, H:54, K:14, K:25, K:29

*For the relevant Committee only.

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:1 Report of Activities, 1986
- E:2 "Report by ICES representative on First Meeting of the
Ref.C IOC/UNEP/IAEA Group on Standards and Reference Materials
and L (GESRM); Paris, 9-12 February 1987"
- E:3 "Report of the Joint Meeting of Biologists and Chemists con-
Ref.N cerned with Contaminants in Marine Mammals, ICES, Copenhagen,
12-13 February 1987"
- E:4 "Report of the Meeting of Analysts Participating in the
Hydrocarbon Intercalibration Programme, Copenhagen, 13-14
February 1987"
- E:5 M Protaso- "Long-term observations of selected heavy metals contained in
Ref.J wicki and otoliths of cod from the southern Baltic"
M Kosior
- E:6 S Meller- "The influence of oxygen deficiency on the dab population in
Ref.G gaard and the eastern North Sea and the southern Kattegat"
E Nielsen
- E:7 M Baeteman "Heavy metals in water, sediments and biota in dumping areas
et al. for acid wastes from the titanium dioxide industry"
- E:8 "Report of the PEX Workshop, Vilnius, USSR, 18-23 May 1987"
Ref.C
- E:9 D Bloch "Contamination of mercury and persistent organochlorines in
et al. the marine sediment of the Faroes" *Withdrawn*
- E:10 Withdrawn.
- E:11 Withdrawn.
- E:12 L Føyn "Age dependent sensitivity of oil on fish larvae, used in
and assessment of potential oil pollution damages on fish
B Serigstad resources"
- E:13 L Føyn "Assessment of potential oil pollution damages on fish re-
and sources. Some examples from the area outside mid-Norway"
H Bjørke
- E:14 H Hallbäck "Preliminary results from dioxin investigations of some
Ref. crustaceans along the Swedish west coast"
K
- E:15 Withdrawn.
- E:16 C F Fileman "Preliminary studies of the distribution of mercury in sea-
water in the vicinity of the rivers Humber, Tees and Tynes"
- E:17 R J Law "Details of a proposed intercomparison study of the deter-
mination of polycyclic aromatic hydrocarbons in marine
samples"

- E:18 S Rowlatt "The effects on the seabed of dumping dredged material and
and sewage sludge at Roughs Tower in the outer Thames estuary"
D S Limpenny
- E:19 D Bucke "Fish disease investigations in the Irish Sea"
and
M D Nichols
- E:20 V Tervo "Concentrations of metals in fish and benthic invertebrates
in the Gulf of Finland and in the Gulf of Bothnia during
1982-1986"
- E:21 "Report of the Joint ICES/OSPARCOM/HELCOM Meeting to evaluate
the results of the 1985 Baseline Study of Contaminants in
Fish and Shellfish, Copenhagen, 9-13 February 1987"
- E:22 "Report of the Working Group on Environmental Assessments and
Monitoring Strategies, Copenhagen, 4-7 May 1987"
- E:23 "Report of the Working Group on Biological Effects of
Contaminants, Copenhagen, 25-27 May 1987"
- E:24 "Report of the 1987 Meeting of the Working Group on the Sta-
Ref.D tistical Aspects of Trend Monitoring, Copenhagen, 27-30 April
1987"
- E:25 "Report of the Working Group on Marine Sediments in Relation
to Pollution, Copenhagen, 23-27 February 1987"
- E:26 "Report of the Working Group on the Baltic Marine Environ-
Ref.C ment, Copenhagen, 30 March - 2 April 1987"
- E:27 H Büther "Patterns of organochlorine residues in livers of dab (Limanda
limanda) in the southern and central North Sea"
- E:28 I Kröncke "Heavy metals in North Sea macrofauna"
- E:29 T Claussen "Enhancement of knowledge on trace metal levels in flatfish
(dab, Limanda limanda) from the southern North Sea"
- E:30 T Lang "Cadmium in skeletally deformed and normally developed Baltic
and V cod (Gadus morhua L.)"
Dethlefsen
- E:31 R Christiansen "Concentration of polychlorinated biphenyls in different
and tissues of cultured rainbow trout, Salmo gairdneri"
K H Palmork
- E:32 X Shen "Distribution of fish parasites and diseases in relation to
Ref. et al. hydrography in Danish coastal waters"
C
- E:33 M Vincx "The use of meiobenthos in pollution monitoring studies: a
and review"
C Heip

- E:34 A R D "Proposal for a sea-going workshop on biological effects
Stebbing, monitoring techniques"
V Dethlefsen
and
F Thurberg
- E:35 G Yryon "Heavy metals in surface sediments of the North Sea" *Withdrawn.*
- E:36 "Executive summary of the 1985 Baseline Study of Contaminants
in Fish and Shellfish"
- E:37 S Berman "Summary of the results of the Sixth Round Intercalibration
on Trace Metals in Sea Water (6/TM/SW)"
- E:38 S Berman "Summary of the results of the Seventh Intercalibration on
Trace Metals in Biological Tissue (7/TM/BT)"
- E:39 M Auffret "Histopathological changes related to chemical contamination
Ref. in mussels (Mytilus edulis) from field and experimental con-
L ditions"
- E:40 J C Duinker "Selection of individual chlorobiphenyls for analysis in en-
et al. vironmental samples"

REFERENCE PAPERS FOR THE MEQC

C:1, C:5, C:12, C:22, C:24, C:26, C:34, C:36, C:37
C:38, C:39, C:41, C:42, C:43, C:44, F:2
F:44, G:6. L:26, L:29, M:13, N:7. N:8

F - MARICULTURE COMMITTEE

- F:1 Report of Activities, 1986
- F:2 H Rosenthal, "Report of the ad hoc Study Group on "Environmental Impact of
Ref. D Weston Mariculture"
E and
E Black
(Eds)
- F:3 H Rosenthal "The effect of salmon cage culture on the benthic community
Ref. and in a largely enclosed bay (Dark Harbour, Grand Manan, N.B.,
L + R W Rangeley Canada)" *Withdrawn.*
M
- F:4 H Rosenthal "Fish behaviour in circular tanks: a video documentation on
fish distribution and water quality"
- F:5 H Rosenthal "Behaviour studies with salmonids under intensive conditions"
Ref. and *Withdrawn.*
M G Batt
- F:6 A H McVicar "Pancreas disease in farmed Atlantic salmon: evidence for an
and infectious aetiology"
A L S Munro
- F:7 L Fyfe "Some properties of a 56 kilodalton haemolysin specific for
Ref. et al. fish erythrocytes in the supernatant fraction of cultures of
M Aeromonas salmonicida"
- F:8 E Egidius "Import of Furunculosis to Norway with Atlantic salmon smolts
Ref.M from Scotland"
- F:9 Withdrawn.
- F:10 Withdrawn.
- F:11 R Civera "Effet du phytate de sodium chez la crevette japonaise
Ref. et Penaeus japonicus"
K J Guillaume
- F:12 J Gabaudan "Effets du rationnement sur le gain de poids, l'utilisation
Ref. et al. alimentaire et l'aptitude au fumage de la truite arc-en-ciel
élevée en mer"
- F:13 Withdrawn.
- F:14 Withdrawn.
- F:15 B Reguera, Distribution of Diophysis acuminata in the rias of Vigo and
Ref. S Fraga, Pontevedra during the summer of 1986"
K and *Withdrawn.*
and I Bravo
L
- F:16 L Berg "Deepwater flowthrough as a temperature stabilizer in rearing
Ref. et al. of halibut (Hippoglossus hippoglossus) fry"

- F:17 K Naas,
L Berg
and
K Pittman "Natural and enriched zooplankton as food for halibut (Hippoglossus hippoglossus) larvae"
- F:18 K Pittman
et al. "Morphological development of halibut (Hippoglossus hippoglossus) larvae with special reference to mouth development and metamorphosis"
- F:19 A Jelmert
and
A M Jensen "Antibiotic treatment and dose-response of bacterial activity associated with flatfish eggs"
- F:20 A Jelmert
and
H Rabben "Upwelling incubators for eggs of the Atlantic halibut (Hippoglossus hippoglossus)"
- F:21 A Mangor-
Jensen "A biotest system for optimization of environmental parameters for production of halibut fry"
et al.
- F:22 K E Jørstad
Ref. et al.
G "A genetic marker for artificially reared cod (Gadus morhua L.)"
- F:23 H Otterå
Ref.G "Intensive production of cod larvae in plastic pens"
Withdrawn.
- F:24 B Hjeltnes,
K Andersen
and
H-M Ellingsen "Vaccination against Vibrio salmonicida. Results from three laboratory trials"
- F:25 T Svåsand
Ref. and
G T Kristiansen "Tagging experiments on artificially reared 0-group coastal cod (Gadus morhua L.) in western Norway - results from the releases in 1984"
- F:26 T Svåsand
Ref. and
G O R Godø "Results of investigations of migration pattern of artificially reared and wild coastal cod (Gadus morhua L.) in western Norway"
- F:27 T Svåsand,
Ref. K Jørstad
G and
T Kristiansen "Recruitment of wild and artificially reared cod (Gadus morhua L.) to the local spawning stock"
- F:28
Withdrawn.
- F:29 K Ø Midling
Ref. et al.
G "Fjord ranching with conditioned cod"
- F:30
Withdrawn.
- F:31
Withdrawn.
- F:32 J Gjøvsæter
and
E Moksness "Some preliminary observations on catfish (Anarhichas lupus L. and A. minor Olafsen) in captivity"

- F:33 M N L Seaman "Complete nitrification in overwintering oyster tanks"
and
W Schwarz
- F:34 "Report of the Working Group on Pathology and Diseases of
Marine Organisms, Brest, 22-25 April 1987" *Withdrawn*
- F:35 "Report of the Working Group on Introductions and Transfers
of Marine Organisms, Brest, 9-12 June 1987"
- F:35A G E Turner "Code of Practice and Manual of Procedures for Consideration
(Ed.) of Introductions or Transfers of Marine and Freshwater
Species"
- F:36 "Report of the Working Group on Mass Rearing of Juvenile
Marine Fish, Brest, 24-26 June 1987"
- F:37 S Stefansson, "Seawater adaptability of two strains of Arctic char (Salve-
Ref. T J Hansen linus alpinus) reared under different light regimes"
M and
J Chr. Holm
- F:38 T Haug "A preliminary report on the natural occurrence and ecology
Ref.G and of Atlantic halibut, Hippoglossus hippoglossus, post-larvae
S Sundby and young immature stages"
- F:39 A Ervik "The effect of chronic ammonia exposure to growth, gill
et al. structure, hematologic parameters and catecholamins on
Atlantic salmon (Salmo salar) in seawater" *Withdrawn*
- F:40 H Rabben "A stripping method for Atlantic halibut (Hippoglossus hippo-
glossus)"
- F:41 H Rabben "First feeding experiments on halibut (Hippoglossus hippo-
glossus) larvae in different temperatures" *Withdrawn*
- F:42 H Rabben, "Production experiment of halibut fry (Hippoglossus hippo-
A Jelmert glossus) in silos"
and
I Huse
- F:43 H Rabben "Brine shrimp larvae (Artemia salina) as startfeed for hali-
and but (Hippoglossus hippoglossus)" *Withdrawn*
L Skjoldal
- F:44 M Enell "Environmental impact of cage fish farming with special refe-
Ref.E rence to phosphorous and nitrogen loading"
- F:45 Withdrawn.
- F:46 "Report of the Editor of the Disease Sheets"
Ref.Pub
- F:47 "List of publications of interest to the Mariculture Com-
mittee"

F:48
F:49

REFERENCE PAPERS FOR MARICULTURE COMMITTEE

G - DEMERSAL FISH COMMITTEE

- G:1 Report of Activities, 1986
- G:2 "Report of ad hoc Study Group on Juvenile Sole Tagging, Ostende, 10-12 March 1987" *Withdrawn.*
- G:3 T Herra "The effect of temperature and currents on the distribution and survival of redfish larvae in the Irminger Sea" *Withdrawn.*
Ref.C
- G:4 R Jones "A note on the presentation of information about trends in fishing mortality and stock size"
Sess.
W
- G:5 R M Cook "A note on the use of research vessel survey indices in VPA-based assessments"
- G:6 J L Sanchez "Infestation of cod by Lernaeocera branchialis L. in ICES Division IIB"
Ref.E Lizaso and J Vazquez
- G:7 O Bagge "Growth and recruitment of plaice in the Kattegat"
Ref.J and E Nielsen
- G:8 N Bax "Recruitment of Bering Sea Pacific cod and walleye pollock to the fisheries of different nations and processors from 1983 to 1986, and implications for management"
and T Laevastu
- G:9 R C Henne- "Annual recruitment probability function and simulation of population size and fields"
Poster muth and
Ref.H J E Palmer
- G:10 O Bagge "Tagging of turbot and brill in the Kattegat 1965-1970"
- G:11 *Withdrawn.*
- G:12 *Withdrawn.*
- G:13 T Monstad "Observations on Polar cod (Boreogadus saida) in the Barents Sea 1973-1986"
Ref. and
H H Gjøvsæter
- G:14 T Gytre "Ultrasonic methods for fish tissue characteristics"
Sess.O
- G:15 *Withdrawn.*
- G:16 *Withdrawn.*
- G:17 O M Smedstad "Acoustic estimates of the North Sea stock of saithe"
- G:18 I Olaso "First data on the feeding habits of the genre Lepidorhombus in the Cantabrian and Galician continental shelf"
and P Pereda
Withdrawn.

- G:19 P Pereda "Feeding of hake and monkfish in the non-trawlable portion of
and the shelf of the Cantabrian Sea" *Withdrawn.*
I Olaso
- G:20 F Sanchez "Results of the bottom-trawl survey "Cantabrico-86", made in
and ICES Division VIIIC in 1985"
I Olaso
- G:21 E de "Description of the Spanish long-liner fishery in Divisions
Cardenas, VIIIa,b"
B Villamor
and
P Pereda
- G:22 E de "Evolution of abundance indices in the ICES Sub-area VI and
Cardenas, Divisions VIIIa,b for the period 1973-1986"
B Villamor
and
P Pereda
- G:23 Withdrawn.
- G:24 J Reinert "Results from an investigation on Sebastes mentella Travin in
Ref.H the Irminger Sea in May 1986"
- G:25 V P Ponomarenko "Prospects for Polar cod fishery in the Arctic Seas" *Withdrawn.*
- G:26 M V Kovtsova "Dynamics of the size-age structure and maturation of Arcto-
Norwegian haddock in relation to year-class strength fluctua-
tions"
- G:27 V A Rikhter "On estimating instantaneous natural mortality rate in the
Irminger redfish (Sebastes mentella T.)"
- G:28 V V Blinov "A method for prediction of age-structured catch"
- G:29 V V Blinov "Some relationships between parameters of reproduction and
survival for the Arcto-Norwegian cod stock"
- G:30 K Nedreaas "Studies on Northeast Atlantic species of redfish (genus Se-
and bastes) by protein polymorphism"
G Nævdal
- G:31 K Nedreaas "Abundance and distribution of post-larvae in the 0-group
and saithe survey in the North Sea and the Northeast Arctic in
O M Smedstad 1986 and 1987"
- G:32 O K Palsson "Icelandic groundfish survey in 1987"
- G:33 A D Rijnsdorp "Tetracycline labelling of otoliths in plaice"
and
T A M Visser
- G:34 A Hylen "Estimation of cod taken as by-catch in the Norwegian fishery
Ref.K and for shrimp north of 69°N"
J A Jacobsen

- G:35 K Sunnanå "The use of catch-per-unit effort (CPUE) in assessing the stock of north east Arctic cod"
- G:36 K Sunnanå "Sampling of age-length data and construction of age-length distributions of north east Arctic cod and haddock"
- G:37 O R Godø et al. "Estimates of stock size of northeast Arctic cod and haddock from survey data 1986/1987"
- G:38 Ref. H "Preliminary report of the International O-Group Fish Survey in the Barents Sea and Adjacent Waters in August-September 1987"
- G:39 G Aubin-Ottenheimer "Bilan des connaissances sur la cardine (Lepidorhombus whiffiazonis). Etude du stock de Mer Celtique" *Withdrawn.*
- G:40 G Aubin-Ottenheimer "Estimation de la croissance des cardines (Lepidorhombus whiffiazonis) de Mer Celtique" *Withdrawn.*
- G:41 G Aubin-Ottenheimer "Evaluation du cycle biologique du stock de cardine (Lepidorhombus whiffiazonis) de Mer Celtique. Utilisation des données biologiques et des facteurs spatio-temporels de la capturabilité" *Withdrawn.*
- G:42 Ph.Moguedet, J B Péroudou, D Nédélec "Estimation des paramètres de croissance en longueur des individus mâles et femelles du stock de lieu noir (Pollachius virens) de l'ouest de l'Ecosse"
- G:43 Ph.Moguedet "Contribution à l'étude de la biologie de la lingue franche (Molva molva): sex ratio, composition en taille et paramètres de croissance du stock de l'ouest de l'Ecosse"
- G:44 H Dupouy, B Kergoat et J J Rivoalen "Importance du taux de mélange des deux baudroies (Lophius piscatorius et L. budegassa) dans les débarquements des chalutiers français fréquentant le plateau Celtique" *Withdrawn.*
- G:45 Withdrawn.
- G:46 Y Desaunay, C Koutsikopolous et D Dorel "Evaluation de la mortalité saisonnière des jeunes soles durant la phase de pré-recrutement"
- G:47 M J Figueiredo, A Ribeiro-Cascalho and E Vasconcelos "Further observations on the biology and distribution of monkfish species Lophius piscatorius L. and L. budegassa Spinola off the Portuguese coast" *Withdrawn.*
- G:48 M W Easey "English cod tagging experiments to the north of Scotland 1977-1979"
- G:49 A B Thompson Ref. and H M Hilden "Relationship between March sea temperature and year-class strength for selected North Sea and west of Scotland fish stocks, 1960-1984"

- G:50 G Burgos "Diet overlap between northeast Arctic cod and haddock in the
and southern part of the Barents Sea in 1984-1986"
S Mehl
- G:51 H Gislason "Some theoretical aspects of the implementation of multi-
Sess. and species virtual population analysis in ICES"
S P Sparre
- G:52 H Sparholt "An estimate of the total biomass of fish in the North Sea,
Ref. with special emphasis on fish-eating species not included in
H the MSVPA model"
- G:53 H Sparholt "A suggestion for residual natural mortalities, M1, to be
Ref. used in the North Sea MSVPA model"
H
- G:54 R Knust "Seasonal changes in feeding, condition and gonadosomatic in-
dex of dab (Limanda limanda L.) - a comparison of two
stations in the German Bight and on the Dogger Bank"
- G:55 U Damm "Growth of grey gurnard Eutrigla gurnardus L. in the North
Sea"
- G:56 K Wieland "Distribution and mortality of cod eggs in the Bornholm Basin
Ref. (Baltic Sea)"
L
- G:57 T Herra "The effect of temperature and currents on the distribution
Ref. and survival of redfish larvae in the Irminger Sea"
L
- G:58 T Herra, "Biomass of the redfish (Sebastes mentella Travin) spawning
J Horbowy stock as estimated from the results of the ichthyoplankton
and survey - Reykjanes Ridge - 1986"
T Linkowski
- G:59 V Helgason "Revised indices of cod abundance in 0-group surveys in the
and Iceland East-Greenland area in 1970-1986"
S Svein-
björnsson
- G:60 J V Magnusson "Report on the 0-group fish survey in Icelandic and East
Ref. S Svein- Greenland waters in August 1987"
C,H björnsson
and and
L V Helgason
- G:61 E Hoffmann "Recapture and growth of transplanted plaice"
and
H Degel
- G:62 B J Rotschild "Spawning-stock biomass: a source of error in recruitment-
and stock relationships and management advice"
M J Fogarty
- G:63 E J Isidro "Age and growth of the bluemouth (Helicolenus dactylopterus
dactylopterus de la Roche, 1809) off the Azores"
- G:64 J Boje "Parasites as natural tags on cod in Greenland waters"

- G:65 H Marques "Biology of the kitefin shark Dalatias licha (Bonnaterra,
da Silva 1788) in Azorean waters" *Withdrawn.*
- G:66 H Marques "An assessment of the Azorean stock of the kitefin shark,
da Silva Dalatias licha (Bonnaterra, 1788)"
- G:67 H Arancibia "On the application of multivariate analysis in the deter-
Ref.D mination of "ontogenetic trophic units" in Chilean hake,
Merluccius gayi (Guichenot, 1848).
- G:68 K E Jørstad "Genetic studies in connection with cod stock enhancement
Ref.F et al. programmes"

REFERENCE PAPERS FOR THE DEMERSAL FISH COMMITTEE

C:16, C:30, D:19, E:6, F:22, F:23, F:25, F:26, F:27, F:29, F:38, H:3, H:3A,
H:32, H:43, H:53, H:55, L:10, L:16, L:17, L:31, L:37

H - PELAGIC FISH COMMITTEE

- H:1 Report of Activities, 1986
- H:2 "Report of the Mackerel Egg Production Workshop, Fisheries Laboratory, Lowestoft, 3-7 November 1986"
- H:3 Ref.G "Report of Working Group on International Young Fish Surveys, Copenhagen, 14-16 January 1987"
- H:3A Ref.G "Report on the International Young Fish Surveys in the North Sea, Skagerrak and Kattegat in 1986 and 1987"
- H:4 A Garcia and L Villegas "Biométrie, croissance et reproduction de la sardine (Sardina pilchardus W.) aux côtes asturiennes (N de l'Espagne)"
- H:5 J de la Hoz and L Villegas "Biométrie, croissance, reproduction et pêche de Scomber scombrus L. 1768, aux côtes asturiennes (N. de l'Espagne) en 1985"
- H:6 "Report of the Planning Group for Acoustic Surveys in ICES Sub-areas VIII and IX, Vigo, 18-21 February 1987"
- H:7 "Report of the Working Group on Herring Larval Surveys South of 62° N, Charlottenlund, Denmark, 10-12 February 1987"
- H:8 S A Iversen, E Kirkegaard and T West-gård "Mackerel egg production and spawning stock size in the North Sea 1986"
- H:9 J Molloy and P King "Irish mackerel egg survey in Divisions VIa and VIIb, 1986"
- H:10 P Rankine and R S Bailey "A report on the ICES Herring Larval Surveys in the North Sea and Adjacent Waters in 1986/1987"
- H:11 E J Simmonds, R S Bailey and A Aglen "Report on the 1986 Herring Acoustic Survey in the northern North Sea"
- H:12 M Heath and P Copland "Report of an acoustic survey of Division VIa (N) in November 1986"
- H:13 Withdrawn.
- H:14 Withdrawn.
- H:15 Withdrawn.
- H:16 S N Messieh "Factors influencing recruitment of Atlantic herring in the Gulf of St. Lawrence (NAFO Division 4T)" (is also Mini-Poster No.11)
- H:17 T Monstad "Norwegian survey on blue whiting, spring 1987"

- H:18 C Porteiro "Analysis on the precision of acoustic abundance estimations
and of sardine (Sardina pilchardus Walb.) in Spanish waters"
A Vazquez *Withdrawn.*
- H:19 *Withdrawn.*
- H:20 A Uriarte "The anchovy of the Bay of Biscay: new data and analysis of
and the fishery in 1974-1987"
A Astudillo
- H:21 A Astudillo "Preliminary data about stock identity of the sardine in ICES
and Sub-area VIII and Division IXa"
F Alvarez
- H:22 V S Zenkin "Biochemical genetic characteristic of Schedophilus meduso-
phaqus Cocco population of the northeast Atlantic"
- H:23 V S Zenkin "Biochemical genetic aspects of studying the population
and structure of the East Atlantic horse mackerel Trachurus pic-
E I Ryazantzeva turatus (Bowdich)"
- H:24 *Withdrawn.*
- H:25 L I Koval "Intrapopulation genetic-biochemical differentiation and
studying of population structure in marine and oceanic fish
species"
- H:26 Yu.V.Chuksin "Peculiarities of distribution and behaviour of mackerel
westward of the British Isles"
- H:27 *Withdrawn.*
- H:28 E M Kara- "Seasonal and spatial spawning dynamics of Maurollicus muel-
siova, leri in the North Atlantic"
V N Feldman
and
A S Malkov
- H:29 I V Borkin, "Spawning efficiency of Atlanto-Scandian herring in the Nor-
A I Krysov wegian and Lofoten shoals in 1986"
and
V N Mukhina
- H:30 A V Shevchenko "Peculiarities of blue whiting distribution in the Norwegian
and N A Isaev Sea in spring/summer of 1985-1986 in relation to stock state
and environmental conditions"
- H:31 T E Pashkova "Soviet investigations of Atlanto- Scandian herring in the
and Barents Sea in 1984-1986"
E I Seliver-
stova
- H:32 Yu.A.Vyalov "On relationship of recruitment of fish populations and tidal
Ref.G force"
- H:33 *Withdrawn.*

- H:34 P Fossum, "Distribution, drift and condition of herring larvae off
Ref.L H Bjørke Western Norway in 1986"
and R Sætre
- H:35 O Hagström "Acoustic estimates of the herring and sprat stocks in Divi-
Ref.J and sion IIIa September 1986"
N Håkansson
- H:36 I Røttingen "Data on the 1983 year class of Norwegian spring-spawning
herring from the period August 1986 - August 1987"
- H:37 J Bertrand, "Acoustic evaluations of the herring biomass in the eastern
et al. Channel - Outcomes of the French surveys 1984-1986"
- H:38 E Vasconcelos "Distribution of blue whiting Micromesistius poutassou
(Risso) in southern fishing areas off the Portuguese coast"
- H:39 P O Johnson, "Recent fecundity observations on North Sea 'Banks' herring"
A M Watson
and
A Thompson
- H:40 W A Dawson "Further analysis of mackerel (Scomber scombrus L.) otolith
L1 measurements"
- H:41 M Greer "Estimation of fecundity in the Western mackerel stock, 1986"
Walker
et al.
- H:42 E Kirkegaard "The Danish acoustic survey in Division IIIa and eastern
Ref. and North Sea August 1986"
J K-J Ståhr
- H:43 K Dahl "The diet and consumption of horse mackerel (Trachurus
Ref. and trachurus) in the eastern North Sea August 1986"
G E Kirkegaard
- H:44 J Alheit "Variation of batch fecundity of sprat, Sprattus sprattus,
during the spawning season"
- H:45 J Alheit, "Distribution, abundance, development rates, production and
E Wahl mortality of sprat eggs"
and
B Cihangir
- H:46 J Alheit, "Batch fecundity of mackerel, Scomber scombrus"
B Cihangir
and
H W Halbeisen
- H:47 M R George "Ovarian maturation cycle of sprat, Sprattus sprattus"
and
J Alheit
- H:48 A Röpke "The vertical distribution of mackerel (Scomber scombrus)
Ref. eggs and larvae during a patch-study in the Celtic Sea in
L April 1986"
- H:49 E Bakken "The ICES Sprat Biology Workshop"

H:50

Withdrawn.

H:51

Ref.
C and
L

"Report on joint Soviet-Icelandic investigations on hydro-biological investigations in the Norwegian Sea and Icelandic waters in May-June 1987" *Withdrawn.*

H:52

Ref.
B

"International acoustic survey on blue whiting in the Norwegian Sea during summer 1987" *Withdrawn.*

H:53

Ref.
G

"Report on the 0-group fish survey in Icelandic and East Greenland waters, August 1987" *Withdrawn.*

H:54

O Moura
Ref. and
D G Afonso
dos Santos

"Identification of pilchard groups"

H:55

Ref.
G

S Tjelmeland "Mortality on Barents Sea capelin calculated by the IMR multispecies model for the Barents Sea. I. Mortality on mature capelin induced by cod"

REFERENCE PAPERS FOR THE PELAGIC FISH COMMITTEE

B:23, C:11, D:21, G:9, G:13, G:24, G:38, G:49, G:52

G:53, G:60, J:21, L:10, L:14

J - BALTIC FISH COMMITTEE

- J:1 Report of Activities, 1986
- J:2 W Grygiel "Some remarks on biological data of sprat caught in the southern Baltic"
- J:3 Withdrawn.
- J:4 W Grygiel "Southern Baltic herring: some remarks on morphological structure of its otoliths"
- J:5 R Grzebielec "Mortality of cod in the southern Baltic in 1973-1986"
and
M Kosior
- J:6 T Herra "Hydrographic influences on the amount and distribution of
Ref. C sprat and cod eggs and larvae in the Southern Baltic" *Withdrawn.*
- J:7 B Sjöstrand "Herring stocks in the Baltic: a comparison between growth
parameters and otolith types" *Withdrawn.*
- J:8 O Bagge "Periodicity of feeding in Baltic cod"
and
J Bay
- J:9 O Bagge "Danish discards in the Baltic 1986-1987"
- J:10 "Report of the Planning Group for Hydroacoustic Surveys in
the Baltic, Copenhagen, 30-31 March 1987"
- J:11 E M Kostrich- "Some regularities of herring growth rate dynamics in the
kina Gulf of Riga in 1960-1985"
et al.
- J:12 F G Shevtsov, "Results of hydroacoustic assessment of sprat stocks in the
E B Gradalev Eastern Baltic"
and
N D Volkov
- J:13 B K Evtjuk- "Long-term predictions of the herring year-class strengths in
hova et al. the Gulf of Riga in relation to environmental factors"
- J:14 R Aps, "Sprat stock-recruitment problem in the Northern Baltic"
B Fiks
and
M Kaleis
- J:15 E Ojaveer "On seasonal dynamics of weight in Baltic herring"
- J:16 R Aps et al. "Spatial model of the Baltic sprat population dynamics"
- J:17 S F Efanov "Effect of selectivity level on the Baltic herring catches"
- J:18 O Hagström "Acoustic estimates of the herring and sprat stocks in the
et al. Baltic proper, October 1986"

- J:19 R Parmanne and V Sjöblom "Possibilities of using larval and zooplankton data in assessing the herring year class strength off the coast of Finland in 1974-1986"
- J:20 Withdrawn.
- J:21 H Sparholt "A model for estimation of natural mortality, fishing mortality and emigration between Skagerrak-Kattegat and the Western Baltic herring stocks, based on catch data, acoustic data and young fish survey data"
- J:22 "Report of the Study Group on Young Fish Surveys in the Baltic, Rostock, 20-26 May 1987"
- J:23 W Bleil and D Kästner "Hydroacoustic investigations on day- and night concentrations and on the variability of trawls in the western Baltic"
- J:24 O Rechlin "The dependence of spawning stock per recruit on the fishing pattern for the western Baltic Sea herring"
- J:25 N Schulz "First results of cod stomach investigations in the western Baltic (ICES Sub-divisions 22 and 24) since 1978"
- J:26 J Modin "A note on large catches of cod, Gadus morhua, in the Bothnian Sea during spring 1987"
- J:27 "List of publications of interest to the Baltic Fishery Committee, 1986"

REFERENCE PAPERS FOR THE BALTIC FISH COMMITTEE

C:32, E:5, G:7, H:35, H:42, L:34, L:35, L 36

K - SHELLFISH COMMITTEE

- K:1 Report of Activities, 1986.
- K:2 S E Shumway and D F Schiek "Variability of growth, meat count and reproductive capacity in Placopecten magellanicus: Are current management policies sufficiently flexible?"
- K:3 A R Beaumont and J Mason "The Sixth International Pectinid Workshop, Menai Bridge, Wales, 9-14 April 1987"
- K:4 D I Fraser and J Mason "Pectinid spat studies in selected areas off the west coast of Scotland, 1982-1986"
- K:5 F G Howard, M A Ngoile and J Mason "Loligo forbesi; its present status in Scottish fisheries"
- K:6 J A M Kinnear and J Mason "A preliminary study of an unfished population of the velvet swimming crab, Liocarcinus puber (L.)"
- K:7 - K:11 Withdrawn.
- K:12 R Dijkema, J Bol and C S Vroonland "Enhancement of the production of cockles (Cerastoderma edule L.) by thinning out a dense natural bed and reseedling, Oosterschelde, SW Netherlands"
- K:13 S Munch-Petersen and P Sand Kristensen "Assessment of the stocks of mussels in the Danish Wadden Sea"
- K:14 A Nicolajsen Ref. and D G Y Conan "Assessment by geostatistical techniques of populations of Iceland scallop (Chlamys islandica) in the Barents Sea"
- K:15 Withdrawn.
- K:16 D S Pezzack and D R Duggan "Size frequencies and growth rates of Homarus americanus from offshore areas of the Scotian shelf" *Withdrawn.*
- K:17 D S Pezzack "Lobster (Homarus americanus) stock structure in the Gulf of Maine"
- K:18 E Gaard "An investigation of the squid Loligo forbesi Steenstrup on Faroe Bank"
- K:19 Withdrawn.

- K:20 P Mallet,
M Moriaysu
and
H Lacroix "Histological observation of the first pleopod of male snow crab (Chionoecetes opilio): a technique for determination of a functional maturity"
- K:21 M Moriaysu,
G Y Conan
and
P Mallett "Growth at molt, molting season and mating of snow crab (Chionoecetes opilio) in relation to functional maturity"
- K:22 J P Hillis "A study of catch composition in the Irish Sea Nephrops fishery with special attention to growth and maturity"
- ~~/~~ K:23 J P Hillis
Ref.B "Experimental assessment of measures to reduce the small whiting by-catch in the Irish Sea Nephrops fishery" *Withdrawn.*
- K:24 G Y Conan
Ref.B "A generalized model for predicting size-specific retention of lobsters in traps fitted with an escape gap"
- K:25 G Y Conan
Ref.D "The paradigm of random sampling patches and the genesis of log normal and negative binomial related models"
- K:26 S J Smith
and
R K Mohn "Considerations on the representation and analysis of a spatially aggregated resource: George's Bank scallops"
- K:27 J P Hillis
and
J Carroll "A confirmatory note: tail weight/whole weight relationship in Nephrops"
- K:28 B I Berenboim,
S G Mukhina
and
G K Shevelev "USSR investigations of shrimp (Pandalus borealis) in the Barents Sea and in the Spitsbergen area in 1986"
- ~~/~~ K:29 D Stolyarenko
Ref.
D "The spline approximation method and a survey design using an interaction with microcomputer spline software system" *Withdrawn.*
- ~~/~~ K:30 D Stolyarenko
and
B G Ivanov "The new approach to bottom trawl surveys with special reference to deep water shrimp (Pandalus borealis) off West Spitsbergen" *Withdrawn.*
- K:31 B G Ivanov "IV All Union Conference on Commercial Invertebrates, Sebastopol, April 15-17, 1986: A review with special reference to the ICES area"
- K:32 F Redant "Reproduction and seasonal behaviour of the Norway lobster, Nephrops norvegicus, in the central North Sea"
- K:33 F Redant "The state of exploitation of the Norway lobster stock, Nephrops norvegicus, in the central North Sea"
- K:34 R P Briggs "A review of the factors influencing landing size in the Northern Ireland Nephrops fishery"
- K:35
Withdrawn.

- K:36 H Ackefors "A new Swedish technique for culturing blue mussel"
Ref. and
F J Haamer
- K:37 R T Bauer "Testing generalizations on latitudinal variation in the relationship between spawning pattern and recruitment in crustaceans"
- K:38 R T Bauer "Announcement of the Symposium "Sex Attraction, Mating Behaviour, and Insemination in the Crustacea" at the ASZ-Crustacean Society Meetings in San Francisco, December 1988"
Withdrawn
- K:39 A Hylen "Results of stratified trawl surveys for shrimps (Pandalus borealis) in the Barents Sea and in the Svalbard region in 1987"
- K:40 Withdrawn.
- K:41 A L Mallet "Production variations in natural populations of the blue mussel, Mytilus edulis" *Withdrawn*
- K:42 C E Carver "Influence of environmental factors on the growth and mortality of blue mussel, Mytilus edulis, and the bay scallop, Argopecten irradians" *Withdrawn*
- K:43 D Le Foll, "Détermination de l'âge d'arraignées de mer Maia squinado par
E Brichet mesure des radioisotopes ²²⁸th et ²²⁸RA de la carapace"
E J L Reyss
- K:44 A Ribeiro- "Some biological data on Parapenaeus longirostris (Lucas, 1846) from the southwest coast of Portugal"
Cascalho
- K:45 M J Figueiredo "A comparative study on some biological parameters of Nephrops norvegicus in three adjacent zones off the Portuguese south coast"
- K:46 C T Macer "A note on estimation of discarded in the fishery for Nephrops
and off the northeast coast of England"
C G Brown
- K:47 D B Bennett "Estimates of lobster (Homarus gammarus) fecundity from east
and and west Britain"
A E Howard
- K:48 B M Thompson "Preliminary crab (Cancer pagurus L.) larvae studies in the
and English Channel"
R A Ayers
- K:49 S E Fevolden "Genetic variation within and between populations of Iceland scallops (Chlamys islandica)"
- K:50 G Y Conan "Proposal for a Symposium on "Description and modelling of Life Cycles for Assessment and Management of Invertebrate Stocks"
- K:51 C C E Hopkins "Scenario of growth and mortality: a spreadsheet production-model in Pandalus borealis"

- K:52 E His "Comparaison de deux méthodes de prélèvements pour le dé-
Ref. et al. nombrement des larves de Crassostrea gigas en zone conchy-
F licole"
- K:53 H R Martins, "Exploitation of limpets (Patella spp.) in the Azores with a
R S Santos preliminary analysis of the stocks"
and
S J Hawkins
- ~~/~~ K:54 C Warneke- "Systematics and zoogeography of Atlantic Ommastrephids"
Cremer *Withdrawn.*
- K:55 F Sardà "Effect of the starvation on the hepatopancreas weight:
Poster and cannibalism and mortality in captive Nephrops norvegicus
F J Valla- (L.)"
dares
- K:56 "List of publications of interest to the Shellfish Committee,
1986"

REFERENCE PAPERS FOR THE SHELLFISH COMMITTEE

E:14, F:11, F:15, G:34, L:20, L:29

L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

- L:1 Report of Activities, 1986 (with two addenda)
- L:2 T Herra "Macrozooplankton of central-North Atlantic (May-June 1986)" *Withdrawn.*
- L:3 Z Ringer "Phytoplankton of the southern Baltic in 1986"
- L:4 Z Witek and A Krajewska-Soltys "Some examples of plankton size structure"
- L:5 A Krajewska-Soltys and A Drgas "Biomass of southern Baltic mesozooplankton in 1981-1986 compared with the 1949-1978 values"
- L:6 H Renk, J Nakonieczny and S Ochocki "Primary production of the southern Baltic in 1986"
- L:7 K Maciejewska "Seasonal changes in macroplankton of the southern Baltic" *Withdrawn.*
- L:8 J Warzocha "Classification and community structure of macrofauna in the southern Baltic"
- L:9 Withdrawn.
- L:10 M J Bergman, "Abundance and growth of 0-group plaice (Pleuronectes platessa L.) in relation to food abundance in a coastal nursery area"
Ref. A Stam and G and H W van der H Veer
- L:11 M Sinclair and P Solemdal "The development of "population thinking" in fisheries biology between 1878 and 1930"
- L:12 S S Drobysheva "Population characteristics of most abundant Barents Sea Euphausiacea"
- L:13 Withdrawn.
- L:14 P Munk, "The winter ecology of North Sea herring larvae - a preliminary study"
Ref. H T Kjørboe and K Richardsson
- L:15 P Munk "Catching large herring larvae - gear applicability and larval distribution"
Sess.
P

- L:16 G Blom "Microdistribution and density of zooplankton, and its relation to growth and survival of cod larvae (Gadus morhua L.) in a mesocosm in western Norway" *W. H. Schröder*
Ref. F+G
- L:17 O Hamerlynck, "The food of early post-larval plaice, Pleuronectes platessa"
Ref. G C R Janssen and E Van Landt-Schoote
- L:18 K Brander, "A study of the avoidance of sampling gear by herring larvae"
J Nichols and A Thompson
- L:19 H L Rees "A survey of the benthic fauna inhabiting gravel deposits off Hastings, southern England"
- L:20 D Haberstroh "Nutrition of 0-group Carcinus maenas in the Wadden Sea during one summer. An experiment with the Bremerhaven Caissons" *W. H. Schröder*
Ref. K
- L:21 W Schwarzbach "Feeding biology of Antarctic plunder fishes (Arteidridae) from the Weddell Sea"
- L:22 C Clemmesen "A highly sensitive method to determine RNA and DNA contents in individual marine fish larvae"
- L:23 R Fröse "Computer-aided identification of fish larvae"
Paper and W Schöfer and
- L:23 W Froese "Computer-aided identification of fish larvae"
Poster
- L:24 B Ueberschär "A highly sensitive method for the determination of proteolytic enzyme activities in individual marine fish larvae"
- L:25 "Report of the Working Group on the Effects of Exceptional Algal Blooms on Mariculture and Marine Fisheries, Hirtshals, 2-4 February 1987"
Ref. F
- L:26 "Sixth Report of the Benthos Ecology Working Group, Edinburgh, 28 April-2 May 1987"
Ref. E
- L:27 "Report of the Intercalibration Workshop on the C-14 Method, Hirtshals, 31 May-6 June 1987"
- L:28 "Report of the Working Group on Larval Fish Ecology to the Biological Oceanography Committee of ICES, Hirtshals, June 1987"
- L:29 "Report of Working Group on Primary Production, Copenhagen, 2-4 September 1987"
Ref. C, E, F, K
- L:30 W Melle "Reproduction of zooplankton in relation to initiation of spring phytoplankton blooms in the Barents Sea"
et al.

- L:31 S Tilseth "Fatty acid composition as indicator of food intake in cod
Ref. et al. larvae (Gadus morhua L.) from Lofoten, northern Norway"
G
- L:32 A Sola "Yearly variation of the ichthyoplankton of commercial inter-
est species in the Santander coast (north of Spain)"
- L:33 C Franco "Contribution to the study of ichthyoplankton of commercial
and interest species on the continental shelf (north-northwest
A Sola Spain)" *Withdrawn*
- L:34 H Renk, "Primary production of the southern Baltic in 1986"
Ref. J Nakonieczny *Withdrawn*
and
S Ochocki
- L:35 J Warzocha "Classification and community structure of macrofauna in the
Ref. southern Baltic" *Withdrawn*
J
- L:36 K Maciejewska "Seasonal changes in macroplankton of the southern Baltic"
Ref. *Withdrawn*
J
- L:37 D C Potter "Comparison of the MOCNESS and IYGPT pelagic samplers for the
Ref. et al. capture of 0-group cod, Gadus morhua, on Georges Bank"
G
- L:38 K Sherman "Large marine ecosystems as global units for recruitment ex-
periments"
- L:39 G C A Duine- "Report on an intercalibration exercise on methods for
veld and determining ashfree dry weight of macrozoobenthos"
H J Witte
- L:40 I Palomera, "Aspects on larval growth of anchovy (Engraulis encrasicolus
Poster B Morales L. 1758) at sea"
and
J Lleonart
- L:41 H W van der "The ecology of 0-group flounder (Platichthys flesus) in the
Veer and western Wadden Sea"
A Groenewold
- L:42 "Report of the Editor of the Plankton Sheets, 1986/1987"
Ref.
Pub

REFERENCE PAPERS FOR THE BIOLOGICAL OCEANOGRAPHY COMMITTEE

C:3, C:8, C:23, C:31, E:2, E:39, F:3, F:15, G:56, G:57, G:60,

H:34, H:48, H:51

M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE

- M:1 Report of Activities, 1986 (with two Appendices*)
- M:2 "Report of the Study Group on the Norwegian Sea and Faroes Salmon Fishery, Trondheim, 10-12 February 1987"
- M:3 "Report of the Acid Rain Study Group, Copenhagen, 4-6 March 1987"
- M:4 Withdrawn.
- M:5 D H Mills "Consideration of scientific problems associated with
Ref.F possible cage-rearing of salmon smolts in Scottish lochs and hydro-electric reservoirs"
- M:6 D J Piggins "Comparative features of the returns of wild and ranched salmon to the Salmon Research Trust's installations, Western Ireland"
- M:7 K Kuklinski "Some remarks to biological data of salmon caught in the
and southern Baltic"
J Wicikowski
- M:8 R Bartel "Distribution, migrations and growth of tagged sea trout (Salmo trutta L.) released into the catchment area of Wieprza River"
- M:9 J Wicikowski "Some remarks to characteristics of the Polish salmon
and fishery"
K Kuklinski
- M:10 E Ikonen "Mixing of wild and hatchery-reared salmon during sea migration in the Baltic Sea"
- M:11 "List of Publications related to the interest of the Anadromous and Catadromous Fish Committee"
- M:12 H Wickström "Natural or cultured eels for stocking: A comparison"
Ref.F
- M:13 E A "The amount and nature of electrophoretically-detectable
Ref.E McEligott, genetic polymorphism in hatchery-reared Atlantic salmon
T F M (Salmo salar L.) in Ireland"
Maquire and
T F Cross
- M:14 L P Hansen, "Possible interaction between wild and reared Atlantic salmon
R A Lund in Norway"
and
K Hindar
- M:15 D G Reddin "Identification of North American and European Atlantic
and salmon (Salmo salar L.) caught at West Greenland in 1986"
P B Short

*For the relevant Committee only

- M:16 D G Reddin, "An integrated phenotypic and genotypic approach to discriminating Atlantic salmon"
E Verspoor
and
P R
Downton
- M:17 Withdrawn.
- M:18 Y Desaunay, "Dynamique de la migration anadrome de la civelle (Anguilla
D Guérault anguilla L.) dans l'estuaire de la Loire: rôle des facteurs
et
P Beillois climatiques vis-à-vis de la pêche et du recrutement"
- M:19 D Guérault, "L'exploitation de la civelle (Anguilla anguilla) en Loire et
P Beillois en Vilaine. Indices d'abondance et indicateurs halieutiques"
et
Y Desaunay
- M:20 E C E Potter "Recoveries of coded wire microtags from caught at West
et al. Greenland in 1986"
- M:21 E C E Potter "Discrimination between wild, farmed and stocked Atlantic
salmon using fin measurements"
- M:22 W Dekker "Preliminary assessment of the IJsselmeer eel fishery based
on length frequency samples"
- M:23 Withdrawn.
- M:24 R Bartel "Comparison of six tag types for sea trout tagging in the
et al. Baltic Sea"
- M:25 E Jutila "The improvement of the salmon stocks of the Simojoki and
and
V Pruuki Tornionjoki rivers by stocking parr in the rapids"
- M:26 J C A Craik "Identification of farmed and artificially reared Atlantic
et al. salmon among the catch of the wild salmon fishery of the
Faroes"
- M:27 S M Einarson, "The effect of smolt release location on the recaptures of
A Isaksson Atlantic salmon (Salmo salar) in the River Langá, Iceland"
and
S Oskarsson
- M:28 T Hesthagen "Acidification and Atlantic salmon in Norway"
and
B Mejdell
Larsen

REFERENCE PAPERS FOR THE ANACAT COMMITTEE

N - MARINE MAMMALS COMMITTEE

- N:1 Report of Activities, 1986
- N:2 G Garcia-Castrillo "Les cétacés trouvés sur les côtes du nord et du nord-ouest d'Espagne en 1984, 1985 et 1986"
and
O Cendrero
- N:3 Withdrawn.
- N:4 E Helle "Reproduction and population size of the Baltic ringed seal"
and
O Stenman
- N:5 R Duguy "Cétacés et Pinnipèdes observés sur les côtes françaises"
- N:6 R Duguy "Deux espèces nouvelles pour les côtes de France: Kogia simus (Physeteridae) et Phoca groenlandica (Phocidae)"
- N:7 P J H Reijnders "Ecotoxicological perspectives in marine mammalogy"
Ref.
E
- N:8 "ICES/IOC/UNEP review of contaminants in marine mammals"
Ref.
E
- N:9 "List of publications of interest to the Marine Mammals Committee, 1986"

REFERENCE PAPER FOR THE MARINE MAMMALS COMMITTEE

MINI-SYMPOSIUM ON RECRUITMENT PROCESSES IN MARINE ECOSYSTEMS

- No.1 K T Frank "Factors affecting recruitment variability of capelin
and (Mallotus villosus) in the northwest Atlantic"
J E Carscadden
- No.2 K M Bailey "Predators and predation as a regulatory force during the
and early life of fishes"
E D Houde
- No.3 M Sinclair "Population regulation and speciation in the oceans"
and
T D Iles
- No.4 C Koutsiko- "The stability of the spatial distribution of the pelagic
poulos stages of sole as explained by the trajectories of 'Argos'
and satellite-tracked buoys"
A Herbrand
- Nos. 5 and 6 Withdrawn.
- No.7 R S Bailey "Hypotheses on the stability of marine fish populations with
and particular reference to variation in the fecundity of
S Almatar herring"
- No.8 B J Rothschild "The physical basis for recruitment variability in
et al. fish populations"
- No. 9 R Jones "Population regulation in marine teleosts"
- No.10 P Oullet "A multidisciplinary approach to study recruitment processes
Poster et al. in marine fish and invertebrate populations in the north of
Gulf of St. Lawrence"
- No.11 S N Messieh "Factors influencing recruitment of Atlantic herring in the
Poster Gulf of St. Lawrence (NAFO Division 4T)" (also coded for
Pelagic Fish Cttee as H:16)
- No.12 Withdrawn.
- No.13 M Autem "Displacements and deformations of the local genetic struc-
Poster and tures as an indicator of populations fluctuations: their
F Bonhomme relationships to recruitment"
- No.14 M H Mathivat "Croissance ovocytaire et cycle larvaire pélagique d'une
Poster Annelide polychète, Nephtys hombergi, dans le bassin d'Arca-
chon"

PAPERS FOR THEME SESSIONS

Theme Sessions

- O Acoustic Methods (Convener: Prof. K Olsen):
 B:2, B:3, B:4, B:5, B:6, B:9, B:10, B:25, B:29 B:30, B:31,
 B:32, B:35, B:41, B:42, B:43, G:14
- P The Catching Process of Survey Trawls (Convener: Mr D N
 MacLennan):
 B:7, B:14, B:15, B:16, B:27, B:28, B:37, B:44, L:15
- S Development and Testing of Statistical Models for the Analysis
 of Stock Assessment Data (Convener: Mr J G Pope):
 D:2, D:3, D:4, D:5, D:6, D:8, D:9, D:10, D:11, D:13,
 D:14(Poster), D:15(Poster), G:51.
- W ACFM and Assessment Working Group Reports (Convener: Mr J
 Jakobsson):
 G:4 and Assess:1 to Assess:25.

ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT

- ACFM:1* "Agenda for ACFM Consultations at the 1987 Statutory Meeting"
- ACFM:2* "Draft Agenda, ACFM Meeting, 29 October - 5 November 1987"
- ACFM:3* "Draft Schedule and Terms of Reference for 1988 ACFM and Assessment Working Groups"

*For the relevant Committee only.

ASSESSMENT WORKING GROUP REPORTS - 1987

- C.M.1987/Assess:1 "Report of the Working Group on the Assessment of Hake Stocks, Copenhagen, 25 June - 2 July 1986"
- C.M.1987/Assess:2 "Report of the North-Western Working Group, Copenhagen, 3-11 September 1986"
- C.M.1987/Assess:3 "Report of the Working Group on Fisheries Units in Sub-areas VII and VIII, Nantes (France), 8-12 September 1986"
- C.M.1987/Assess:4 "Report of the Blue Whiting Assessment Working Group, Copenhagen, 24 - 30 September 1986"
- C.M.1987/Assess:5 "Report of the Arctic Fisheries Working Group, Copenhagen, 22-30 September 1986"
- C.M.1987/Assess:6 "Report of the Baltic Multispecies Assessment Working Group, Moscow, 22-26 September 1986"
- C.M.1987/Assess:7 "Report of the North Sea Flatfish Working Group, Copenhagen, 15-17 October 1986"
- C.M.1987/Assess:8 "Report of the Atlanto-Scandian Herring and Capelin Working Group, Copenhagen, 27-31 October 1986"
- C.M.1987/Assess:9 "Report of the ad hoc Multispecies Assessment Working Group, Copenhagen, 12-18 November 1986"
- C.M.1987/Assess:10 "Report of the Working Group on Cod Stocks off East Greenland, Copenhagen, 28 January-3 February 1987"
- C.M.1987/Assess:11 "Report of the Mackerel Working Group, Copenhagen, 16-25 February 1987"
- C.M.1987/Assess:12 "Report of the Working Group on North Atlantic Salmon, Copenhagen, 9-20 March 1987" (plus Errata)
- C.M.1987/Assess:13 "Report of the Irish Sea and Bristol Channel Working Group, Copenhagen, 26 February - 6 March 1987"
- C.M.1987/Assess:14 "Report of the ad hoc Meeting of the North Sea Flatfish Working Group, IJmuiden, 2-5 February 1987"
- C.M.1987/Assess:15 "Report of the North Sea Roundfish Working Group, Copenhagen, 9-20 March 1987"
- C.M.1987/Assess:16 "Report of the Division IIIa Stocks Working Group, Copenhagen, 16-20 March 1987"
- C.M.1987/Assess:17 "Report of the Industrial Fisheries Working Group, Copenhagen, 5-10 March 1987"
- C.M.1987/Assess:18 "Report of the Working Group on Assessment of Pandalus Stocks, Copenhagen, 10-13 February 1987"
- C.M.1987/Assess:19 "Report of the Herring Assessment Working Group for the Area South of 62°N, Copenhagen, 24 March - 3 April 1987" (plus Errata)

- C.M.1987/Assess:20 "Report of the Working Group on Assessment of Pelagic Stocks in the Baltic, Copenhagen, 30 March to 9 April 1987"
- C.M.1987/Assess:21 "Report of the Baltic Salmon and Trout Assessment Working Group, Copenhagen, 9-15 April 1987"
- C.M.1987/Assess:22 "Report of the Working Group on Assessment of Demersal Stocks in the Baltic, Copenhagen, 6-15 April 1987"
- C.M.1987/Assess:23 "Report of the Working Group on the Assessment of Pelagic Stocks in Divisions VIIIC and IXa and Horse Mackerel, Copenhagen. 22-28 April 1987"
- C.M.1987/Assess:24 "Report of the Working Group on Methods of Fish Stock Assessments, Copenhagen, 9-16 June 1987"
- C.M.1987/Assess:25 "ACFM comments on stock assessment working group reports: a supplement (for working groups) to the ACFM Reports of November 1986 and May 1987"

ACMP - ADVISORY COMMITTEE ON MARINE POLLUTION

- ACMP:1* Agenda for the Advisory Committee on Marine Pollution.
ACMP:2* "Draft 1987 ACMP Report"
ACMP:3* "Requests for Working Groups"

*For the relevant Committee only.

