

Fol. 41



International Council for the Exploration of the Sea

[ICES]

COUNCIL MEETING 1993

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- Gen:2 ICES activities in 1992/1993
- Gen:3 Election of standing scientific Committee Chairmen at the 81st
Statutory Meeting (E+F)
- Gen:4 Report of Mid-Term Meeting of Consultative Committee,
Ref. A + Del ICES Headquarters, 14-16 June 1993
- Gen:5 Advance Release of Tables 1-6 of *ICES Fisheries Statistics*,
Vol. 77, 1992
- Gen:6 Report of the Bureau Working Group on Strategic Planning
Ref. A + Del for Scientific Cooperation and Advice, Copenhagen, 17-20
June 1993

(E + F) = in English and French

DEL - DELEGATES DOCUMENTS

- Del:1*** Audited Income and Expenditure Account for the Financial Year 1991/1992 with Balance Sheet at 31/10 1992
- Del:2*** Progress report on the Administration for the year 1 November 1992 to 31 October 1993
- Del:3*** Report on Activities, 1992
- Del:4*** Estimated accounts for the financial year 1992/1993
- Del:5*** Draft budget for the financial year 1993/1994 (E+F)
- Del:6*** Draft forecast budget for the financial year 1994/1995 (E+F)
- Del:7*** Elections and appointments by the Council at the 81st Statutory Meeting (E+F)
- Del:8*** Request for reduced number of shares by Russia
- Del:9*** North Sea Task Force Progress Report

REFERENCE PAPER FOR THE DELEGATES MEETINGS

Gen:4, Gen:6

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

Fisheries Research Institute
Biblioteket

FI - FINANCE COMMITTEE

Fi:1* Agenda for the Finance Committee

PUB - PUBLICATIONS COMMITTEE

- Pub:1* Agenda for the Publications Committee
- Pub:2* Publication activities in 1992/1993
- Pub:3* Sale of ICES publications during the last three years
- Pub:4* Report of the Editors of the *ICES Journal of Marine Science* for 1992/1993
- Pub:5* Academic Press publisher's report for 1993: *ICES Journal of Marine Science*
- Pub:6* Publication of ICES Symposia proceedings
- Pub:7* Recording of rare fishes from the ICES area

REFERENCE PAPERS FOR THE PUBLICATIONS COMMITTEE

E:2, F:16, L:12

*For the relevant Committee only.

A - CONSULTATIVE COMMITTEE

- A:1* Agenda for the Consultative Committee
- A:2* Minutes of ACFM Meeting, ICES Headquarters, 27 October - 4 November 1992
- A:3* Minutes of ACFM Meeting, ICES Headquarters, 18-26 May 1993
- A:4* Minutes of ACME Meeting, ICES Headquarters, 1-11 June 1993
- A:5* Compendium of recommendations from Working/Study Group reports

REFERENCE PAPERS FOR THE CONSULTATIVE COMMITTEE

Gen:4, Gen:6, G:3, G:4, J:3, L:4, N:5

*For the relevant Committee only.

B - FISH CAPTURE COMMITTEE

- B:1 Report of Activities, 1992
- B:2 Report of the Working Group on Fishing Technology and Fish Behaviour, Gothenburg, Sweden, 19-20 April 1993
- B:3 Report of the Working Group on Fisheries Acoustics Science and Technology, Gothenburg, Sweden, 21-22 April 1993
Ref. H
- B:4 Report of the Joint Session of the Working Group on Fishing Technology and Fish Behaviour and Working Group on Fisheries Acoustics Science and Technology, Gothenburg, Sweden, 20 April 1993
- B:5 Report of the Study Group on Research Vessel Noise Measurement, Gothenburg, Sweden, 19 April 1993
- B:6 Preliminary report of the Study Group on Target Strength Methodology, Gothenburg, Sweden, 19 April 1993
- B:7 B. Nakashima Detecting and measuring pelagic fish schools using remote sensing techniques
Sess. T
- B:8 G. Paterakis and S. Georgakarakos "School": a software for fish school identification
- B:9 J. Haralabous and S. Georgakarakos Fish-school species identification using a neural network
- B:10 A.L Toivonen Survival of undersized salmon after release from the trap net
Ref. J+M and R. Hudd
- B:11 V. Moderhak Some problems of water flow through the trawl codend
- B:12 J. Zaucha *et al.* Preliminary studies of selectivity of cod gill nets in the Baltic
Ref. J
- B:13 B. van Marlen *et al.* EC-Project TE-2-554 - improved selectivity of fishing gears in the North Sea beam trawls
- B:14 P. Suuronen *et al.* Survival of Baltic herring (*Clupea harengus* L.) escaping from a trawl codend and through a rigid sorting grid
- B:15 P.J. Dare *et al.* The efficiency of spring-loaded dredges used in the western English Channel fishery for scallops, *Pecten maximus* (L.)
Ref. K
- OK B:16 O.A. Misund and A. Aglen On the shape, size and density of North Sea herring schools as mapped by echo integration and accurate sonar projection
Ref. D,G,H,J,K, N
- OK B:17 B. Totland and O.A. Misund Computerbased detection of schools for counting, quantification of size and swimming behaviour by the Simrad SA950 sonar
- OK B:18 A. Engås and E. Ona Experiences using the constraint technique on bottom trawl doors

- OK B:19 O.R. Godø and A three level pelagic trawl for near surface sampling of
Ref. H J.W. juvenile fish
Valdemarsen
- B:20 R.P. Briggs and Square mesh panel studies in the Irish Sea *Nephrops* fishery
Ref. K J.H.B. Robertson
- OK B:21 K. Korsbrekke On subjectivity in the judging of acoustic records;
Ref. and O.A. Misund comparison of degree of homogeneity in allocation of echo
D,G,H,J,K, values by different teams
N
- OK B:22 Å. Bjordal Capture techniques for wrasse (Labridae)
Ref. F
- OK B:23 Å. Bjordal *et al.* A new radio link telemetry positioning system. Experiences
from tracking of fish and crustaceans
- B:24 R.B. Larsen Joint Russian-Norwegian selectivity experiments on cod
et al. (*Gadus morhua* L.) with 55 mm sorting grid in demersal
trawls in the Barents Sea in July 1992
- B:25 T. Lindem and EP-500 - a system for processing and presentation of
Sess. T D. AL Houari echogram data produced by the SIMRAD EY-500/EK-500
echosounders
- B:26 P.-O. Larsson Effects of heavy fishing with *Nephrops* trawls on the seabed
Ref. K+L *et al.* and bottom fauna
- B:27 P.A.M. Stewart Fish capture research - needs and opportunities
- OK B:28 R.J. Korneliussen Advances in Bergen echo integrator
Sess. T
Poster
- OK B:29 K.G. Foote Directional properties of an 18-KHZ transducer
- OK B:30 K.G. Foote *et al.* More on the frequency dependence of target strength of
Ref. H mature herring
- B:31 Withdrawn.
- B:32 J. Massé and Effect of the number of transects and identification hauls on
Ref. D, N. Retière acoustic biomass estimates when several species are present
G,H,I,K,N in an area
- B:33 K. Lange Design and construction of cambered V-doors
- B:34 E. Götze *et al.* Hydroacoustic small scale investigation of pelagic fish
Ref. H+J stocks
- OK B:35 J.W. Grid devices to select shrimp size in trawls
Ref. K Valdemarsen
et al.
- (not received) B:36 I. Huse and Target strength (TS) measurements of post spawning herring
like moth. E. Ona and cod
- (not received) B:37 I. Huse and Diurnal variation in behaviour of wintering herring in a
like moth. Ref. H I. Røttingen fjord in northern Norway

B:38 Ref. E+L	M.J. Kaiser and B.E. Spencer	A preliminary assesment of the immediate effect of beam trawling on a benthic community in the Irish Sea
B:39 Ref. D,G,H,J,K, N	M.L. Zaferman	Structure and acoustic assessment of fish concentrations
B:40 Ref. H	P. Reynisson	<i>In situ</i> target strength measurements of Icelandic summer spawning herring in the period 1985-1992

REFERENCE PAPERS FOR THE FISH CAPTURE COMMITTEE

D:29, D:30, D:31, D:32, D:34, D:45, D:56, D:63, G:21, G:40, G:44, G:61, G:67, H:36, H:44, H:48, J:9, J:15, K:34, K:37, K:42, K:47, K:54, L:46, N:2, N:9, N:16

C - HYDROGRAPHY COMMITTEE

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| C:1 | | Report of the Working Group on Marine Data Management, Aberdeen, Scotland, 22-24 April 1993 |
| C:2 | | Report of the Working Group on Oceanic Hydrography, Aberdeen, Scotland, 21-23 April 1993 |
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| C:4 | | Reports from the SKAGEX Workshop, Lysekil 3-6 November 1992 and the meeting of the ICES Study Group on SKAGEX, Klaipeda, Lithuania, 29 June - 2 July 1993 |
| C:5 | | Report of the ICES Oceanographic Data Centre |
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Paper and
Poster | M.J. Orren
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Sess. O | M.J. Orren | A review of the intense upwelling system off the southwest coast of Africa - a model for ICES upwelling research |
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Sess. T | J.M. Cotos <i>et al.</i> | Infrared image integration from METEOSAT and NOAA satellites using cross correlation techniques |
| C:10
Sess. T | J. Torres <i>et al.</i> | Follow-up and prediction of upwelling in the Iberian Peninsula west coast using meteorologic parameters, Ekman flux and satellite remote sensing |
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<i>et al.</i> | The United Kingdom's Digital Marine Atlas (UKDMAP) - an operational tool for fisheries scientists in particular and marine managers and planners in general |
| C:13
Sess. T
Poster | K. Blake and
M. Gillooly | Evolution of a data gathering, storage and management system for the R.V. Lough Beltra |
| C:14
Sess. V | A. Zezera and E. Zezera | Recent changes of salinity and its anomalies in the southeastern Baltic (1992-1993) |
| C:15
Sess. T
Poster | Y. Coupez | Comparison of contouring methods for marine nutrient data |

- C:16 C.J. de Boer Water mass distribution in the Iceland Basin calculated with optimal parameter analysis
Paper and Poster
- C:17 M. Ostrowski "SKAGEX Atlas", a software package for the presentation of results of the International Skagerrak Experiment
Sess. T Poster
- C:18 M. Ostrowski *et al.* Application of the "SKAGEX Atlas" package in studies of long-term water mass variability along a section in Skagerrak
Sess. T
- C:19 Withdrawn.
- C:20 E. Buch The North Atlantic water component of the West Greenland current
Paper and Poster
- C:21 Withdrawn.
- C:22 R.L. Smith On the process of upwelling: new observations and understanding
Sess. O
- C:23 J.J. Bisagni *et al.* Measurements of temporal changes in the circulation of the Jordan Basin-Maine coastal current system
Sess. T Poster
- C:24 Withdrawn.
- C:25 D.J. Ellett Transit times to the NE Atlantic of Labrador Sea water signals
Paper and Poster
- C:26 A. Grelowski and T. Wojewodzki Distribution of highly saline waters observed in April 1993 after the inflow to the southern Baltic
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- C:27 O. Vagn Olsen Spatial and temporal variability in winter concentrations of nitrite in Kattegat and the North Sea
Paper and Poster
- C:28 C. Roy and R. Mendelssohn The complete story of the oceans climatic variability at your fingertips: access to the COADS dataset from a micro-computer
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- C:29 W.R. Turrell *et al.* Analysis of the historic time-series obtained in the Faroe-Shetland Channel
Paper and Poster
- C:30 E. Hagen *et al.* A case study of meso-scale motion patterns off the Portuguese west coast
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- C:31 R. Goward and G. Savidge The influence of cool water incursions on phytoplankton populations in Bantry Bay, southwest Ireland
Sess. O
- C:32 D. Whelan *et al.* An *in situ* and remote sensing study of the near surface water parameters in the Waterford Harbour estuary and the Celtic Sea in June and July 1993
Sess. T Poster

- C:33 L. Rickards The status of data supply to the ICES Oceanographic Databank: the last 25 years
Paper and Poster
- C:34 L. Nykjær and W. Schrimpf Variability of coastal upwelling and cross-shelf transport off the Northwest African coast
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- C:35 H. Hardarson The Hugin family of marine recorders and their applications, showing examples from Iceland and Canada
Sess. T
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- C:36 M. Kahru Effects of local upwellings on pelagic ecosystems
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Paper and Poster
- C:37 J.C. de Munck Principles of inverse modeling of hydrographic data
- C:38 T. Knutsen and Y. Følling Quality control of current measurements made by an Acoustic Doppler Current Profiler (ADCP)
Sess. T
Poster
- OK C:39 J. Blindheim and F. Rey Seasonal property and flux variations in the Atlantic inflow to the Nordic seas — annen tittel på stenside!
Paper and Poster
- C:40 A. Lavin *et al.* Comparison over time of temperature and salinity at 24.5°N in the Atlantic
- OK C:41 H. Loeng *et al.* Current measurements in the northeastern Barents Sea
Paper and Poster
- not received (like mott.) C:42 T. Gytte An operative system for remote readout of STD stations via telephone
Paper and Poster
- C:43 M. Mork and A.J. da Silva Transient upwelling off West Iberia
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- C:44 K.A. Orvik and M. Mork Recent investigations of the frontal region in the Norwegian coastal current
Paper and Poster
- C:45 S.-A. Malmberg and J. Briem Satellite tracked drogue experiment in Icelandic waters in 1992
Paper and Poster
- C:46 Withdrawn.
- C:47 G. Becker and G. Wegner North Sea surface temperature means 1981 to 1990
Paper and Poster
- C:48 E. Kleine Numerical simulation of the recent (1993) major Baltic inflow
Sess. V

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Withdrawn.

C:50 H. Giese Multiparameter water mass analysis with error
Paper and analysis of tracer data from the eastern Atlantic
Poster

C:51 W. Matthäus *et al.* The major Baltic inflow in January 1993
Sess. V

C:52 W. Matthäus Major inflows of highly saline water into the Baltic
Sess. V Sea - a review

C:53 R. Tamsalu and A baroclinic prognostic model of the Gulf of Finland
Poster K. Myrberg

C:54 O.V. Titov *et al.* Results of oceanographic investigations in the
northeast Atlantic in spring, 1993

C:55 N. Emerson and D. Burns Computer-aided sea bed classification
Sess. T
Poster

C:56 Withdrawn.

C:57 B. Broman and The start of the 1993 major inflow to the Baltic Sea
Sess. V H. Dahlin and the transport of salt and water through the
Sound

C:58 H. Dahlin and The changes of the hydrographic conditions in the
Sess. V B. Håkansson Bornholm Basin and the Stolpe Furrow due to the
1993 major inflow to the Baltic Sea

C:59 B. Rudels *et al.* Greenland Sea deep waters: a report on 1993 winter
and spring cruises by RVs "Polarstern" and
"Valdivia"

C:60 John A. Johnson Modelling coastal upwelling
Sess. O

C:61 D. Barton Near surface dynamics of coastal upwelling
Sess. O

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G:3, H:8, H:9, H:15, H:18, H:23, H:31, H:37, H:49, J:3, K:17, L:4, L:7, M:9, M:10, M:13, M:29,
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D - STATISTICS COMMITTEE

- | | | |
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| D:1
Sess. T | Z.I. Kizner | On the stability of dynamic surplus production models |
| D:2 | Z.I. Kizner and
D.A. Vasilyev | Instantaneous separable VPA (ISVPA) with determination of natural mortality coefficient |
| D:3 | ICES Fishery
Secretary | Progress Report 1992/1993 |
| D:4 | V.K. Despotakis
<i>et al.</i> | Development of a marine geographical information system for Aegean Sea |
| D:5 | J.J. Pella <i>et al.</i> | Comparison of several algorithms for computation of conditional maximum likelihood estimates of composition of stock mixtures from discrete characters |
| D:6
Sess. T | G.A.P. Black and
R. Mohn | Interactive data visualization of fisheries management systems |
| D:7
Sess. T | S. Garcia <i>et al.</i> | Software for tropical fisheries research: the needs and the response by FAO and ICLARM |
| D:8 | | Withdrawn |
| D:9
Sess. P | B. Mesnil | Using Monte Carlo simulations to account for uncertainties in stock assessments and biological advice for fisheries management. Application to the northern stock of European hake |
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Sess. P | A.A. Rosenberg
and V. Restrepo | The Eloquent Shrug: expressing uncertainty and risk in stock assessments |
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Ref. M | G. Varis <i>et al.</i> | Belief networks in fish stock assessment - The Baltic salmon case |
| D:14
Sess. P | Sir W. Frederick
and
R.M. Peterman | Choosing fisheries harvest policies: How much does uncertainties matter? |
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Sess. P | Ø. Ulltang | Risk analysis and biological knowledge |
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Ref. J | J. Horbowy | The multispecies stock-production model |
| D:18
Sess. P | A.D.M. Smith | Risk assessment or management strategy evaluation: what do managers need and want? |

- D:19 H. Troadec TNPC, an assisted system for the interpretation of calcified structures
Sess. T
Poster
- D:20 Y. Coupez Logbook reporting with GIS
Sess. T
Poster
- D:21 Withdrawn.
- D:22 M.J. Fogarty Recruitment dynamics of Georges Bank haddock: Evidence for multiple equilibria
Ref. G
- OK D:23 S. Floen *et al.* An integrated database for marine research
Sess. T
- D:24 S. Fifas *et al.* Sole fishery (*Solea vulgaris*) in the western English Channel (France). Sampling of commercial landings, stochastic length virtual population analysis, study of interactions between inshore and offshore trawlers
Ref. G
- D:25 C.T. Macer and R.A. Ayers Monthly catch prediction software incorporating changes in fishing effort and mesh size using EXCEL spreadsheets
Sess. T
Poster
- D:26 J. Horwood Stochastically optimal management of fisheries
Sess. P
- D:27 C.D. Darby The use of spawning stock biomass estimates derived from egg surveys as indices for tuning separable VPA assessments
Ref. H
- D:28 G.Y. Conan and F. Söler Phase-space diagrams, a first approach to chaos modelling of North American landings of *Homarus americanus*
Ref. K
- D:29 G.Y. Conan *et al.* Practical comparison of shellfish biomass estimates by ordinary kriging (composition, and global) and 3 dimensional spline approximation
Ref. B,G,H,J,
K,N
- D:30 G.Y. Conan and D.A. Stolyarenko On board real time mapping and assessing a resource during commercial fishing for optimizing catch and costs
Ref. B+K
- D:31 B.K. Simmonds and R.I. Fryer Survey strategies for structure populations; Part II. Precision of variance estimators
Ref. B,G,
H,J,K,N
- D:32 D.N. MacLennan Gear selectivity and the variation of yield
Ref. B
- D:33 E. Ferrandis and J.A. Posadas A Gaussian process for the evolution of cohorts of marine fishes under exploitation
- D:34 E. Ferrandis and P. Muck Geostatistics and spatial simulation modeling: a new approach for improved resource evaluation
Ref. B,G,H,J,
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- D:35 P.J. Rago Two randomization tests for estimation of regional changes in fish abundance indices: application to North Atlantic salmon
Ref. M

D:36 Sess. T	J.S. Idoine and G.R. Shepherd	Application of distributed delay models to complex life histories in marine fisheries
D:37		Withdrawn.
D:38 Sess. P	B.A. Megrey <i>et al.</i>	Sensitivity of optimum harvest strategy estimates to alternative definitions of risk
D:39 Sess. T	V.G. Wespestad and T.J. Quinn II	Programming in advanced spreadsheets: a three stock VPA incorporating migration
D:40 Sess. T	A.E. Punt	Uses and abuses of three, automated techniques for performing fisheries stock assessment
D:41	A. Nicolajsen and J.M. Grástein	What is the most cost-effective procedure for sampling landings from a commercial fishery?
D:42 Sess. T	D.R. Smyth	Development of a computerised database system for fisheries research
ok D:43 Ref. H	J. Hamre	A model of estimating biological attachment of fish stocks to exclusive economic zones
D:44 Sess. T	J.R. Selvik <i>et al.</i>	Marine resource data base (MRDB), a database on vulnerable marine resources in Norway
ok D:45 Ref. B,G, H,J,K,N	K.G. Foote	Abundance estimation of herring hibernating in a fjord
D:46		Withdrawn.
D:47 Ref. G	P.R. Garrahan	Resampling techniques used in calculating estimators and confidence intervals of gastric evacuation rates
D:48 Ref. J+G	M. Bleil and R. Oeberst	On the accuracy of cod fecundity estimations
D:49		Withdrawn.
not received D:50	J.M. Hoenig and V.R. Restrepo	Sequential population analysis incorporating order restrictions on the estimates of fishing mortality
D:51 Ref. K	J.M. Hoenig <i>et al.</i>	Index-removal estimators of population size which incorporate information on sampling gear selectivity
D:52 Ref. G+H+J	J.M. Hoenig <i>et al.</i>	Using prior and current information to estimate age composition: a new kind of age-length key
not received D:53 Ref. K	J.M. Hoenig <i>et al.</i>	An efficient design for index-removal and change-in-ratio estimation of population size with application to snow crab
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D:55 Ref. G	M.J. Morgan and J.M. Hoenig	Maturity at age from length stratified sampling

- D:56 W.G. Warren More on persistence and the potential of sampling with partial replacement
Ref. B,G,
H,J,K,N
- D:57 W.G. Warren Some applications of the Kalman filter in fisheries research
- D:58 Withdrawn.
- D:59 Withdrawn.
- D:60 Withdrawn.
- D:61 The Irish Navy Using expert systems to preserve fish stocks in Irish EC waters
Sess. T and F. Fleming
Poster
- D:62 G. Garofalo *et al.* Trawlbase, a configurable database for trawl survey data
Sess. T
- not received.*
D:63 M. Pennington A general approach for the use of survey indices in the tuning
Ref. B,G, of VPA
H,J,K,N
- D:64 G.J. Meaden Instigation of the world's first marine fisheries GIS
Sess. T
- D:65 P. Petitgas and A. EVA: a geostatistical software on IBM-PC for structure
Sess. T Prampart
Poster characterization and variance computation
- D:66 R.M. Cook The use of sensitivity analysis to quantify uncertainties in stock
Sess. P projections
- D:67 J.P. Hillis Economic aspects of the yield per recruit curve
- D:68 Withdrawn.
- not received.*
D:69 G.G. Thompson A decision-theoretic approach to fishery management under a
Sess. P and A.A. dependatory stock-recruitment relationship
Rosenberg
- D:70 M. Basson Risk analysis in fisheries management: the Falkland Islands
Sess. P squid fishery as an example
- D:71 R. Shotton Risk, uncertainty and utility: a review of the use of these
Sess. P concepts in fisheries management
- D:72 E. Reichelt Russel Australian fisheries: stock assessment, resource status,
Sess. T and P.C. Young reporting and GIS developments
Poster
- D:73 F. Storbeck "FISHMAP" - A Mackintosh application for a graphical
Sess. T display of geographical distribution data
Poster

REFERENCE PAPERS FOR THE STATISTICS COMMITTEE

B:16, B:21, B:32, B:39, G:21, G:37, G:40, G:44, G:61, G:67, H:36, H:40, H:41, H:44, H:48, J:9, K:25, K:33, K:34, K:41, K:42, K:46, K:47, K:52, K:53, K:54, K:62, K:64, N:2, N:9, N:16, Env:6

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- E:1 Report of Activities, 1992
- E:2 Report of the Editor of the *Techniques in Marine Environmental*
Ref. Sciences for 1993
Pub
- E:3 Report of the Steering Group on Quality Assurance of Chemical
Measurements in the Baltic Sea, Gdynia, Poland, 16-19 March
1993
- E:4 Report of the Steering Group on Quality Assurance of Biological
Ref. L Measurements in the Baltic Sea, Gdynia, Poland, 16-19 March
1993
- E:5 Report of the Steering Group for the Coordination of a Baseline
Study on Contaminants in Baltic Sediments, Helsinki, Finland,
19-20 April 1993
- E:6 Report of the Working Group on the Baltic Marine Environment,
Sess. V Helsinki, Finland, 21-23 April 1993
- E:7 Report of the Working Group on the Effects of Extraction of
Marine Sediments, St. Valery-sur-Somme, France, 12-15 May
1993
- E:8 Withdrawn.
- E:9 Joint Meeting of the Steering Group on Quality Assurance of
Chemical Measurements in the Baltic Sea and the Steering Group
on Quality Assurance of Biological Measurements in the Baltic
Sea
- E:10 Withdrawn.
- E:11 O. Roots and Polychlorinated biphenyl isomers and chlorinated pesticides in
R. Aps the Gulf of Riga herring
- E:12 S. Neiland Evaluation of the benthic conditions at a sewage sludge dump site
two years into its operation, and assessment of the recovery state
of the old disused site
- E:13 K. Cooreman *et* Screening of organophosphate and carbamate pesticides by
al. cholinesterase inhibition
- E:14 K. Cooreman *et* EROD monitoring in dab from the Belgian continental shelf
al.
- E:15 P. Roose *et al.* Correlation between EROD, GSH activities and the presence of
organochlorines in the liver of dab from the Belgian continental
shelf
- E:16 A.J.R. Cotter and Environmental quality standards for protection of the marine
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- E:17 J.M. Bowers and Sediment quality guideline development in Canada
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- E:19 Withdrawn.
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- E:21 J. Tronczynski An overview of atrazine in the estuarine environment
- E:22 E. His and Ref. K M.N.L. Seaman Effects of twelve pesticides on larvae of oysters (*Crassostrea gigas*) and two species of unicellular marine algae (*Isochrysis galbana* and *Chaetoceros calcitrans*)
- E:23 K. Dubsky Some preliminary results from nutrient and bacterial contamination studies of small inflows in estuarine and marine areas of six European countries
- E:24 J.T. Hardy Aquatic surface microlayer analysis and toxicity testing: a Sess. Q sensitive monitoring tool
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- E:28 J.J. Cleary Surface microlayer contamination and toxicity in the North Sea Sess. Q *et al.* and Plymouth near-shore waters
- E:29 R.S. Carr *et al.* Sediment quality assessment studies in Tampa Bay, Florida, USA Sess. Q
- E:30 M. Perttilä and L. Niemistö Selection and characterization of net sedimentation stations for reference use - First results of the 1993 Baltic Sea Sediment Baseline Study
- E:31 O. Roots and T. Lukki Connections autonomous between chloroorganic compounds concentrations in the Baltic herring
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F - MARICULTURE COMMITTEE

- F:1 Report of Activities, 1992
- F:2 Publications of interest to the Mariculture Committee, 1992
- F:3 Report of the Working Group on Introductions and Transfers of Marine Organisms, Aberdeen, Scotland, 26-28 April 1993
- F:4 P. Sandberg
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- F:5 Report of the Working Group on Pathology and Diseases of Marine Organisms, Copenhagen, 15-18 March 1993
- F:6 Progress Report of the Working Group on Environmental
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- F:8 Report of the Working Group on Mass Rearing of Juvenile Fish, Bergen, Norway 24-26 June 1993
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- F:30 D. Jackson and D. Minchin Variation in sea lice infestation on farmed salmonids in Ireland
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- F:35 R.S. Raynard and D.A. Smail Preliminary appraisal of an experiment investigating the effects of pancrease disease, infectious pancreatic necrosis and double infection on individual growth rates in Atlantic salmon
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- G:2 Withdrawn.
- G:3 Report of the Working Group on Cod and Climate Change,
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- G:4 Report of the Study Group on Ecosystem Effects of Fishing
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- G:5 Report of the Study Group on Beam Trawl Surveys in 1992,
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- G:6 Report of the Study Group on Redfish Stocks, Copenhagen,
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- G:9 S. Mazzola *et al.* Software package for the assessment of abundance and
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- G:10 B.R. MacKenzie The contribution of abiotic factors during the pelagic stages to
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- G:17 H. Dupouy *et al.* Optimisation de la longueur de calage des filets maillants à
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- G:19 M. Mtimet and S. Fifas Anglerfish (*Lophius piscatorius*) catch per unit effort de-seasonalization of a Saint-Malo trawler's sample (western English Channel, France)
- G:20 M. Mtimet and S. Fifas Estimation of an anglerfish tail weight to gutted weight factor using biometrical relationships
- G:21 A.J.R. Cotter Intercalibration of groundfish surveys using regression analysis of year class mortalities
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- G:22 P.J. Bromley and L.T. Kell The feeding of cod (*Gadus morhua* L.) and haddock (*Melanogrammus aeglefinus*) in the North Sea during 1992
- G:23 T.W. Boon The role of computers in the production of ICES Cooperative Research Report "Atlas of North Sea Fishes"
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- G:24 R.S. Millner *et al.* Estimation of discard mortality of plaice from small otter trawlers using tagging and cage survival studies
- G:25 K. Ramsay Factors influencing first time maturity in female sole (*Solea solea* (L.))
- G:26 J.D. Metcalfe *et al.* Data storage tags to be used in studies of plaice migrations in the North Sea
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- G:29 L. Asgeirsson Precision weighing at sea
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- G:32 J.R. Nielsen and M. Andersen Feeding habits of Greenland cod, *Gadus ogac*, in the Nuuk area, West Greenland
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- G:34 Withdrawn.
- G:35 M.A. Liceaga-Correa and J.A. Diaz-Zavala Otolith image analysis and its reading with a computer program
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- G:37 R.A. Rountree and M.P. Fogarty Spatial, temporal and predator-prey size patterns of cannibalism by silver hake
- G:38 F. Cardador Distribution pattern of hake (*Merluccius merluccius*) in the Portuguese waters based on roundfish surveys
- G:39 A. Silva Distribution of megrim (*Lepidorhombus whiffiagonis*) and four-spot megrim (*Lepidorhombus boscii*) off the Portuguese coast
- G:40 P. Munk Describing the distribution and abundance of small O-group cod using ring-net sampling and echo-integration
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- G:44 M.J. Armstrong and R.P. Briggs Distribution and growth of haddock of the large 1991 year class in the Irish Sea, inferred from successive trawling surveys
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- G:50 H. Marques da Silva Estimates of life-stage abundance from modal decomposition of spiny dogfish, *Squalus acanthias*, in the NW Atlantic
- G:51 H. Marques da Silva Reproductive strategies of spiny dogfish, *Squalus acanthias*, in the NW Atlantic
- G:52 H. Marques da Silva The effect of temperature on the recruitment-stock relationship of spiny dogfish, *Squalus acanthias*, in the NW Atlantic
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- G:63 V.L. Tretyak and N.V. Mukhina Substantiation to measures to protect the Barents Sea juvenile fish in trawl fisheries
- G:64 S.A. Oganessian Periodicity of the Barents Sea cod reproduction
- G:65 J. Boje Migrations of Greenland halibut in the Northwest Atlantic from tagging experiments in West Greenland 1986-1989
- G:66 J. Landa *et al.* Growth patterns of megrim (*Lepidorhombus whiffiagonis* and *L. boschii*) in the North-East Atlantic (ICES Divisions VIIj-k, VIIla,b,c and IXa)
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H - PELAGIC FISH COMMITTEE

- H:1 Report of Activities, 1992
- H:2 Publications of interest to the Pelagic Fish Committee, 1992
- H:3 Report of the Planning Group for Herring Surveys, Aberdeen, Scotland, 2-5 February 1993
- H:4 Report of the Mackerel/Horse Mackerel Egg Production Workshop, Aberdeen, 8-12 March 1993
- H:5 J. Mork and M. Glæver The genetic population structure of the blue whiting (*Micromesistius poutassou*)
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- H:7 S. Mazzola *et al.* A software package to study the dynamics of pelagic ecosystems
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- H:8 J.A. Jacobsen and L. Lastein Investigations of the distribution of blue whiting in relation to hydrography north of the Faroe Islands in August/September 1988-1991
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- H:23 D.G. Reid Distribution of North Sea herring and their relationship to the environment
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- H:38 M.F. Borges Batch fecundity and fraction spawning of females from southern Atlantic horse mackerel (*Trachurus trachurus* L.) in Division IXa (Portugal)
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J - BALTIC FISH COMMITTEE

- J:1 Report of Activities, 1992.
- J:2 List of publications of interest to the Baltic Fish Committee, 1992
- J:3 Report of the Steering Group on Fisheries/Environmental
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- J:4 Report of the Study Group on the Biology of Baltic Flounder
- J:5 Report of the Study Group on the Evaluation of Baltic Fish Data,
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- J:6 Report of the Planning Group for Hydroacoustic Surveys in the
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- J:7 Report of the Study Group on Young Fish Surveys in the Baltic,
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- J:8 T. Raid and A. Lankov Recent changes in feeding of herring and sprat in the northeastern
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- J:9 O. Bagge and E. Nielsen Abundance of 0-group plaice in different areas in the Kattegat and
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- J:12 J. Ostrowski Effects of sampling site on the herring food composition in the
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- J:13 B. Draganik and J. Kuczynski Spatial distribution of the flounder and viviparous eelpout in the
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- J:20 J. Flinkman Herring predation avoidance in northern Baltic copepods and mysids
- J:21 U. Waller The survival of eggs and the hatching of larvae of cod (*Gadus*
Sess. V *et al.* *morhua*) at different oxygen levels
- J:22 M. Plikshs *et al.* The influence of environmental conditions and spawning stock size
Sess. V on the year-class strength of the eastern Baltic cod
- J:23 A. Korolev Features of the Baltic herring's spawning grounds in the eastern
et al. Baltic
- J:24 A. Naglis and The analysis of mean weight-at-age changes of Baltic herring in the
L. Sidrevics eastern Baltic proper, Sub-division 28
- J:25 N. Kondratjeva Biochemical and morphophysiological parameters of Baltic sprat in
relation to age and annual cycle periods
- J:26 G. Kornilovs The modern state of Baltic herring spawning grounds in the Gulf of
Riga
- J:27 M. Fetter and Herring feeding and growth in the Baltic Sea during 1977-1990
A. Davidyuk
- J:28 E. Götze *et al.* Report on the acoustic survey in Sub-divisions 22 and 24 in
October/November 1992
- J:29 W. Weber and Synopsis of biological data on *Gadus morhua* L. in the Baltic Sea
R. Froese using the FISHBASE format
- J:30 P.-O. Larsson Abundance of the eastern cod stock in the Baltic in relation to
Sess. V environmental parameters
- J:31 O. Bagge Possible effects on fish reproduction due to the changed
Sess. V oceanographic conditions in the Baltic proper

not received
by ICES

REFERENCE PAPERS FOR THE BALTIC FISH COMMITTEE

B:10, B:12, B:16, B:21, B:32, B:34, B:39, D:17, D:29, D:31, D:34, D:45, D:48, D:52, D:56, D:63,
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K - SHELLFISH COMMITTEE

- K:1 Report of Activities, 1992
- K:2 Publications of interest to the Shellfish Committee, 1992
- K:3 Report of the Study Group on the Biology, Life History, and Assessment of *Majid* Crabs, Jersey, Channel Islands, UK, 19-21 May 1993.
- K:4 Report of the Study Group on Impacts Likely to Affect Shellfish in Aquaculture and Natural Populations
- Ref. E
- K:5 H. Eiriksson On the biennial breeding cycle of *Nephrops* at Iceland and how it relates to the fishery
- K:6 Report of the Study Group on Life Histories and Assessment Methods of *Nephrops* Stocks
- K:7 Report of the Study Group on Life Histories and Assessment Methods of *Pandalus* Stocks in the North Atlantic, Reykjavik, Iceland, 6-11 September 1993
- K:8 First report of the Study Group on the Life History, Population Biology, and Assessment of *Crangon*
- OK K:9 M. Aschan *et al.* *Summana* Results of Norwegian and Russian investigations of shrimp (*Pandalus borealis*) in the Barents Sea and Svalbard area in 1992
- K:10 R. Melville Smith *et al.* Recent changes in the growth rate of the South African spiny lobster, *Jasus lalandii*: possible causes, and management implications
- Poster
- K:11 T. Rasmussen *et al.* Preliminary investigations on the population genetic differentiation of the deep water prawn, *Pandalus borealis*, Krøyer 1838, from northern Norway and the Barents Sea
- K:12 P. Sand Kristensen Growth and production of small mussels (*Mytilus edulis* L.) sorted and relayed from commercial catches in the Limfjord
- K:13 P. Sand Kristensen and H. Lassen Production in sorted and relayed mussel in Limfjorden, DK
- K:14 Withdrawn.
- K:15 F. Rocha *et al.* The diets of *Loligo vulgaris* and *Loligo forbesi* (Cephalopoda, Loliginidae) in the Galician waters (NW Spain)
- K:16 R. Witbaard and R. Klein A method to estimate the bottom trawl intensity independently from fisheries itself by using interal molluscan growth lines
- K:17 Chr. R. Weidman and Ref. G.A. Jones A new high-temporal resolution paleoceanographic tool for the northern North Atlantic: the mollusc *Arctica islandica*
- C+L

- K:18 O. Tully Morphological lipofuscin (age pigment) as an indicator of age in *Nephrops norvegicus* and *Homarus gammarus*
- K:19 E. González-Gurriarán *et al.* Reproduction of the spider crab *Maja squinado* (Brachyura: Majidae) in the southern Galician coast (NW Spain)
- K:20 J.P. Robin and E. Boucaud Proportion of the squid *Loligo forbesi* and *Loligo vulgaris* in French landings of the Channel bottom trawl multispecies fishery; sampling scheme of the Port-en-Bessin landings and preliminary results
- K:21 F.B. Mc Kelvey *et al.* Recruitment potential of native oysters *Ostrea edulis* in Lough Foyle
Ref. F
- K:22 D. Le Foll *et al.* Relations biométriques chez l'araignée de mer *Maja squinado*. Longueur de référence, distinction juvénile-adulte taille-poids
- K:23 D. Latrouite and Ph. Noël Observations sur la maturité sexuelle et la ponte du tourteau *Cancer pagurus* en Manche
- K:24 A.J.R. Cotter *et al.* An experiment of the effects of tractor dredging on cockles in Burry Inlet, South Wales
- K:25 F. Maynou *et al.* Temporal and spatial structure of crustacean populations on *Nephrops* fishing grounds
Ref. D
- K:26 P. Mallet *et al.* Periodicity of spawning and duration of incubation time of *Chionoecetes opilio* in the Gulf of St. Lawrence
- K:27 K. Mai *et al.* Comparative studies on the nutrition of two species of Abalone, *Haliotis tuberculata* L. and *Haliotis discus hannai* Ino.
- K:28 C. Talidec and J.L. Reyss Determination of inter-individual growth variability of the Norway lobster from the Bay of Biscay (*Nephrops norvegicus*) by measurement of the $^{228}\text{Th}/^{228}\text{Ra}$ carapace ratio
- OK K:29 G. van der Meeren and H. Lobster (*Homarus gammarus*) catches in southwestern Sess. R Næss Norway, including the first recaptures of previously released juveniles
- K:30 P.R. Boyle *et al.* Population zoology of *Loligo forbesi* (Cephalopoda: Loliginidae) in Scottish waters
- K:31 G.J. Pierce *et al.* Geographic variation in *Loligo forbesi* in the North Atlantic
- K:32 G.J. Pierce *et al.* Diets of squid *Loligo forbesi* and *Loligo vulgaris* in the Northeast Atlantic
- K:33 G.J. Pierce and A. Guerra A review of stock assessment methods used for cephalopod fisheries
Ref. D
- K:34 N. Bailey *et al.* Estimation of *Nephrops* stock abundance on the Fladen Ground from underwater television surveys
Ref. B,D,G, H,J,N
- K:35 A. Moreno *et al.* Population biology of veined squid (*Loligo forbesi*) and European squid (*Loligo vulgaris*) from the Portuguese coast

- K:36 A. Moreno Preliminary study on the biological characters of *Alloteuthis subulata* and distribution of the genus *Alloteuthis* (Cephalopoda: Loliginidae) in Portuguese waters
- K:37 J.M. de F. Pereira Squid fishing trials with trawl nets off the Portuguese coast
Ref. B
- K:38 M.M. da Cunha and A. Moreno Evolution of the Portuguese fishery for squid
- K:39 J.M. de F. Pereira Size selection of *Octopus vulgaris* Cuvier, *Sepia officinalis hierredda* Rang and *Sepiella ornata* Rang in bottom trawls off the coast of Guinea-Bissau
- K:40 P. Soletchnik *et al.* Bilan énergétique de l'huître creuse (*Crassostrea gigas*) durant la période de forte croissance en mai en baie de Marennes-Oléron (France)
- K:41 M. Ruth and A. Pulfrich Dynamics of mussel stocks in the Wadden Sea of Schleswig-Holstein
Ref. D
- K:42 A. Pulfrich and M. Ruth Methods for monitoring spatfall of mussel (*Mytilus edulis*) in the Schleswig-Holstein Sea
Ref. B,D,G, H,J,N
- K:43 M.A. Collins *et al.* Recruitment, maturation and spawning of the squid *Loligo forbesi* Steenstrup in the Irish and Celtic Seas
- K:44 M.A. Collins *et al.* Aspects of the diet of the squid *Loligo forbesi* Steenstrup in Irish waters
- K:45 J.P. Baud *et al.* Influence de la méthode de distribution du phytoplancton sur l'homogénéité de croissance de la palourde japonaise (*Ruditapes philippinarum*) élevée en bassin
Ref. L
- K:46 I.F. Lawler and J.C. Aldrich Multimodel analyses of growth in *Pecten maximus*
Ref. D
- K:47 M. Andersen Inshore survey for snowcrab, *Chionoecetes opilio*, in West Greenland
Ref. B,D,G, H,J,N
- K:48 K.F. Collins *et al.* Analysis of Poole Bay, U.K. lobster data
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- K:49 A.C. Jensen *et al.* Lobster (*Homarus gammarus*) movement in the Poole Bay fishery, Dorset, U.K.
- K:50 J. Martin Période d'éclosion des larves d'araignée de mer *Maja squinado* Herbst en Manche et température de l'eau au printemps
- K:51 R. Dinoso-Perez and A. Forest Analyse des pêcheries françaises des céphalopodes dans le Golfe de Gascogne (Secteur VIII du CIEM)
- K:52 U. Damm *et al.* An elementary model of the life cycle of brown shrimp (*Crangon crangon* L.) in German coastal waters
Ref. D

- K:53 A. Temming *et al.* Trends in size composition in German commercial catches of brown shrimp (*Crangon crangon* L.) and implications for population structure and stock condition
Ref. D
- K:54 T. Neudecker Abundance indices of *Crangon crangon* L. at the west coast of Schleswig-Holstein, North Sea
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B,D,G,
H,J,N
- K:55 U. Feddersen *et al.* Seasonal variation in larval abundance of *Crangon crangon* in three successive years
- K:56 M.L. Coelho and H. Villa Fecundity in squid *Loligo vulgaris* from the coastal waters of the Algarve, southern Portugal
- K:57 M.L. Coelho *et al.* Fecundity in squid *Loligo forbesi* from the coastal waters of the Azores
- K:58 M.L. Coelho *et al.* Maturation and recruitment in the squid *Loligo vulgaris* from the coastal waters of the Algarve, southern Portugal
- K:59 M.L. Coelho and V. Bettencourt Population structure of the squid *Loligo vulgaris* in the coastal waters of the Algarve, southern Portugal
- K:60 M.L. Coelho *et al.* Pattern of the squid fishery in the Algarve region of Portugal
- K:61 A.M. Caramelo An analysis of the interaction among species in the crustacean fishery in the Algarve and Alentejo Area (ICES Division IXa)
- K:62 R. Dijkema Spatfall and recruitment of mussels (*Mytilus edulis* L.) and cockles (*Cerastoderma edule* L.) on different locations along the European coast
Ref.D
- K:63 R.C.A. Bannister The United Kingdom approach to the enhancement of stocks of lobster (*Homarus gammarus* L.)
Sess. R
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- K:64 J.P. Hillis and O. Tully Possible advances with the ageing of female *Nephrops* by separation of normal curves in length-frequency distributions
Ref. D
- K:65 J.P. Hillis and O. Tully Growth rate, mortality and small mean size in Irish Sea *Nephrops*
- K:66 Report of the Study Group on Cephalopod Biology, Kiel, Germany, 21-22 September 1992

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L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

- L:1 Report of Activities, 1992
- L:2 Publications of interest to the Biological Oceanography Committee, 1992
- L:3 Report of the Benthos Ecology Working Group, Kiel, Germany, 3-8 May 1993
- L:4 Report of the Inter-Committee Recruitment Group, Dublin, Ireland
Ref. A, C, E, G, H, K
- L:5 Report of the Working Group on Recruitment Processes
- L:6 1993 Report of the Study Group on FISHBASE
- L:7 Report of the ICES/IOC Study Group on the Dynamics of Algal Blooms (SGDAB) and the Joint Meeting of SGDAB and the ICES Working Group on Shelf Seas Oceanography ((SSOWG), Charleston, USA, 8-11 February 1993
Ref. C
- L:8 Report of the Study Group on GULF III Sampler Efficiency Calibrations, Aberdeen, Scotland, 3 February 1993
- L:9 Report of the Study Group on Methods of Spatial and Temporal Integration, Glasgow, Scotland, 14-18 June 1993
- L:10 Draft Report of the Study Group on Seabird/Fish Interactions, Copenhagen, 6-10 September 1993 (text only)
- L:11 Report from the 2nd Meeting of the Study Group on Zooplankton Production, Las Palmas, Canary Islands, Spain, 8-11 March 1993
- L:12 *ICES Identification Leaflets for Plankton. Editor's Report 1992/1993*
Ref. Pub
- L:13 D.J. Gifford Planktonic Protozoa in copepod diet: examples from the North Atlantic and the North Pacific
- L:14 L.V. Shannon and K.L. Cochrane The Benguela ecology programme - an example of a successful inter-disciplinary study of upwelling and its biological consequences
Sess. O
Poster
- L:15 L. Sidrevics *et al.* Long-term changes of zooplankton abundance in the Gulf of Riga
- L:16 J.C. Gamble *et al.* The status of plankton populations in the northeast European shelf seas and the northwest Atlantic as determined by the Continuous Plankton Recorder Survey
- L:17 R. Raine *et al.* Upwelling around the southwest Irish coast: near-surface dynamics and blooms of dinoflagellate *Gyrodinium aureolum* (Hulbert)
Sess. O
- L:18 R. Raine *et al.* Upwelling and the phytoplankton ecology of southwest Irish coastal waters
Sess. O

- L:19 P. Byrne and J. O'Mahony Observed sequential occurrence of phytoplankton and zooplankton in the Dunkellin estuary, Galway Bay, Ireland
- L:20 Sess. S G. Schneider Does *Aurelia aurita* really decimate zooplankton in Kiel Bight?
- L:21 Sess. S J.H. Steele The role of invertebrate predators
- L:22 Ref. H R.P. Sánchez *et al.* Distribution and abundance of post-larvae and juveniles of the Patagonian sprat, *Sprattus fuegensis*, and related hydrographic conditions
- L:23 Ref. J F. Arrhenius and S. Hansson *In situ* food consumption by young Baltic Sea herring (*Clupea harengus*) - a test of a bioenergetic model
- L:24 J.M. Rodríguez and F. Lozano-Saldevilla Cruise "Canarias 9206". Preliminary results on composition, abundance and horizontal distribution of ichthyoplankton
- L:25 J.H.T. O'Mahony Seasonal cycle of phytoplankton in the Dunkellin estuary, western Ireland
- L:26 Withdrawn.
- L:27 Ref. J S. Semyonova *et al.* Spatial structure of phytoplankton in the Baltic Sea in May 1992
- L:28 Ref. J O. Krylova *et al.* Production of hydrobionts and structure of food grid within the ecosystem of the Vistula Bay in the Baltic Sea
- L:29 Withdrawn.
- L:30 Ref. F D. Jackson and J. Silke *Dinophysis* species in Irish waters 1990-1993
- L:31 Ref. F J. Silke and D. Jackson Harmful and nuisance algal blooms in Irish coastal waters 1990-1993
- L:32 Sess. O G. Moincoiffé *et al.* Variability of surface planktonic community metabolism in response to coastal upwelling events in the Ria de Vigo (NW Spain)
- L:33 Sess. O H.-Ch. John and P. Ré Cross-shelf zonation, vertical distribution, and drift of fish larvae off Northern Portugal during weak upwelling
- L:34 Sess. S U. Båmstedt *et al.* The ecological role of some gelatinous predators in Norwegian waters
- L:35 K. Sherman *et al.* Trends in the stability and resistance of a large marine ecosystem
- L:36 Sess. S P. Kremer Ctenophore population dynamics: patterns of abundance for *Mnemiopsis* in US coastal waters
- L:37 Sess. T R. Froese *et al.* FishBASE, a global information system to support fisheries research
- L:38 Sess. O S. Fraga Harmful algal blooms in relation to wind induced coastal upwelling and river plumes

- L:39 A. Korolev *et al.* Investigations of the *Furcellaria lumbricalis* distribution and abundance at the eastern coast of the Baltic Sea
- L:40 D. Cortés and Individual estimation of nutritional condition of northwestern
Ref. H T. Ramirez Mediterranean anchovy larvae (*Engraulis encrasicolus*) through RNA/DNA analysis
- L:41 A. Garcia *et al.* Northwestern Mediterranean anchovy larval distribution
Ref. H (*Engraulis encrasicolus*) contrasted with food availability, larval condition (RNA/DNA) and hydrographic features
- L:42 J.E. Purcell *et al.* *In situ* predation rates on Bay anchovy eggs and larvae by
Sess. S Scyphomedusae and Ctenophores in Chesapeake Bay, USA
- OK L:43 S. Kaartvedt Underwater optics and behavioural responses of krill to
et al. *Skjoldal* presence of fish predators' effect fish-plankton interactions
- OK L:44 W. Melle *et al.* Acoustic visualization of large scale macroplankton and
Melle micronekton distribution at a shelf/deep sea interface
- OK L:45 H.R. Skjoldal Preliminary report from the sea-going workshop in Norway
et al. June 1993 on intercomparison and evaluation of method for sampling and determination of zooplankton distribution and biomass (ICES Study Group on Zooplankton Production)
- not received L:46 T. Knutsen and Target strength measurements of the free swimming euphausiid
Ref. B E. Ona *Meganctiphanes norvegica* (M. Sars) at 120 kHz
- OK L:47 P. Dalpadado Some observations on the feeding ecology of Norwegian spring
Ref. H spawning herring *Clupea harengus* along the coast of Norway
- not received L:48 T. Knutsen Spatial and temporal distribution of eggs and larvae of the
received euphausiids *Meganctiphanes norvegica* (M. Sars) and *Thysanoessa inermis* (Krøyer) in the slope and shelf waters off Møre, western Norway
- not received L:49 B. Ellertsen *et al.* Reproduction of *Calanus finmarchicus* off the western coast of
received Norway, in relation to the overwintering stock, hydrographic features and phytoplankton spring bloom development
- L:50 Withdrawn.
- L:51 F. Puelles *et al.* Diel variations in vertical distribution of copepods in the north
et al. Iberian coast
- L:52 A. Sepulveda Daily growth increments in the otoliths of European smelt,
Ref. M *Osmerus eperlanus* L., larvae
- L:53 A. Bode *et al.* Variability of phytoplankton biomass and primary productivity
Sess. O in the shelf waters of the upwelling area of N-NW Spain
- L:54 E. Gaard and Phyto- and zooplankton communities on the Faroe Bank and
H. Mortensen their relations to the physical and chemical environment
- L:55 E.D. Houde *et al.* Mesocosms adrift: a method to estimate fish egg and larvae
Sess. S mortality rates
- L:56 Cl. Zelck Horizontal and vertical distribution of *Cyclothone*- and
Vinciguerria- larvae at a watermass front in the NE Atlantic

L:57	A. Sieg	Histological study on larval nutritional condition of the Southwest Atlantic anchovy, <i>Engraulis anchoita</i> (Hubbs and Marini 1935), caught in three hydrographically differing frontal systems of the Southwest Atlantic
L:58		Withdrawn.
L:59 Ref. G+K	A.G.C. del Norte-Campos and A. Temming	Diurnal activity and feeding in gobies and brown shrimp in the northern Wadden Sea
L:60 Sess. S	W. Greve	Gelatinous zooplankton systems ecology in the German Bight
L:61 Sess. S	W. Greve	German Bight ecosystem responses to the invasion of a Siphonophore
L:62 Sess. O	M.E. Cunha	Seasonal variation of the zooplankton biomass over the Portuguese continental shelf
L:63 Sess. O	M.E. Cunha	Spatial variation of the zooplankton biomass in relation to the hydrographic conditions off the Portuguese coast
L:64 Sess. O	M.T. Moita	Spatial variability of phytoplankton communities in the upwelling region off Portugal
L:65 Sess. O	M.T. Moita and A. J. da Silva	Phytoplankton blooms during an upwelling event at the northwest coast of Portugal
L:66 Sess. O	A.J. da Silva and M.T. Moita	Dynamics of toxic dinoflagellates during an upwelling event at the northwest coast of Portugal
L:67 Sess. T Poster	Z. Klusek and M. Ostrowski	Software package for environmental monitoring of birds and fish/plankton relationship in the Arctic
L:68 Sess. S	T.J. Smayda	Experimental manipulations of phytoplankton + zooplankton + ctenophore communities, and foodweb roles of the ctenophore, <i>Mnemiopsis leidyi</i>
L:69 Sess. S	S.P. Volovik <i>et al.</i>	<i>Mnemiopsis leidyi</i> in the Azov Sea: biology, population dynamics, impact to the ecosystem and fisheries
L:70 Ref. K	A. Razinkovas	Functioning of nectobenthic complexes as a result of opossum shrimp acclimatization in the Curonian Lagoon
L:71 Ref. G+H	N.V. Mukhina	Results from Russian ichthyoplankton surveys in the Norwegian and Barents Seas in 1959-1990
L:72	N.V. Mukhina	Trends of variations in abundance of the main commercial fish of the Barents Sea in early ontogeny
L:73 Sess. O	L. Postel <i>et al.</i>	Rostock zooplankton studies off West Africa
L:74 Sess. S	G.R. Harbison	The potential of fishes for the control of gelatinous zooplankton

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Sess. T
Paper and Poster

T. Noji

Image analysis at the Institute of Marine Research, Norway

L:76
Sess. O

Cl. Roy

The optimal environmental window hypothesis: a non-linear environmental process affecting recruitment success

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Seasonal variation in the recruitment of the European anchovy	M.E. ...	
Spatial variation of the trophic structure of the European anchovy	M.E. ...	
Spatial variability of phytoplankton communities in the western region of Portugal	M.T. ...	
Phytoplankton blooms during an upwelling event in the western coast of Portugal	M.T. ...	
Dynamics of toxin-producing cyanobacteria during an upwelling event in the northwest coast of Portugal	A.J. ...	
Soft-shell clams for environmental monitoring of beach and fish-pollution relationship in the Azores	M. ...	
Experimental manipulation of phytoplankton + zooplankton + bacterioplankton communities and their impact on the zooplankton: Microcosm studies	I.I. ...	
Algal pigments label in the Azores: A dynamic impact to the ecosystem	Z.P. ...	
Functioning of bacterioplankton in the eastern Ligurian during upwelling in the Ligurian Sea	A. ...	
Russia from Russian ichthyoplankton surveys in the Norwegian and Barents Seas (1993-1998)	N.V. ...	
Trends of variation in abundance of the main components of the Barents Sea in early ontogeny	V.V. ...	
Biological oceanography in the West African	I. ...	
The potential of ...	G.A. ...	

M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE

- M:1 Report of activities, 1992
- M:2 Publications of interest to the Anadromous and Catadromous Fish Committee, 1992
- M:3 Report of the Study Group on Stock Identification Protocols for
Ref. Finfish and Shellfish Stocks, Copenhagen, 16-19 August 1993
G,H,J,K
- M:4 ICES compilation of microtag, finclip and external tag releases in 1992
- M:5 H. Westerberg *et al.* A new method for sampling elvers in the coastal zone
- M:6 R.E. Donnelly *et al.* The management of glass eels in the Shannon estuary, Ireland
- M:7 O. Vasin *et al.* The effect of environmental factors on Baltic salmon growth in
Ref. J the sea
- M:8 A. Mitans *et al.* Sea trout in Latvia
Ref. J
- M:9 S. Gudjónsson *et al.* Relation of grilse/salmon ratio to environmental changes in
Ref. several wild Atlantic salmon in Iceland
C+H
- M:10 P. Antonsson *et al.* Possible causes of fluctuation in stock size of Atlantic salmon in
Ref. northern Iceland
C+H
- M:11 M. Jóhannsson *et al.* Anadromous brown trout (*Salmo trutta* L.) populations in southern Iceland
- M:12 P. Gudjónsson Marking and tagging of sea trout (*Salmo trutta* L.) in the river Ulfarsá in southwest Iceland
- M:13 K.D. Friedland *et al.* The production of North American and European Atlantic
Ref. salmon: effects of postsmolt growth and ocean environment
C+H
- M:14 O. Tully *et al.* Parameters, impacts and suggested causes of heavy sea lice infestation on sea trout populations in Ireland 1990-1993
- M:15 R. Bartel and M. Size of the sea trout (*Salmo trutta* L.) eggs from 7 investigated
Ref. J Parlinska Polish rivers
- M:16 R. Bartel Present status of the Vistula sea trout situation
Ref. J
- M:17 R. Bartel *et al.* Comparison of length and weight of river lamprey from Finland,
Ref. J Latvia, Lithuania and Poland
- M:18 E.C.E. Potter *et al.* The discrimination of North American and European salmon using a genetic algorithm and by neural network

- M:19 I.C. Russell *et al.* Recoveries of coded wire microtags from salmon caught at West Greenland in 1992
- M:20 Withdrawn.
- OK M:21 Ø. Skaala *et al.* A method of observing the spawning behaviour of farmed and wild salmonids in a natural stream habitat
- M:22 O. Christensen *et al.* Review of Danish stocks of sea trout (*Salmo trutta*)
- M:23 Withdrawn.
- M:24 P.J. Rago *et al.* Estimation and analysis of prey-fishery abundance of two sea winter populations of North American Atlantic salmon (*Salmo salar*), 1974-1991
- M:25 P.J. Rago *et al.* A continental run reconstruction model for the non-maturing component of North American Atlantic salmon: analysis of fisheries in Greenland and Newfoundland-Labrador, 1974-1991
- M:26 A. Richards and Chr. Esteves Discrimination of wild stocks of Atlantic striped bass (*Morone saxatilis*) using scale morphology
- M:27 Withdrawn.
- M:28 M.-L. Koljonen Genetic stock composition analyses of Baltic salmon catches
Ref. J
- M:29 T.L. Marshall *et al.* The potential influence of environmental/oceanographic factors on age-at-maturity of Atlantic salmon of the Saint John River, Canada
Ref.
C+H
- M:30 J.J. Anderson Management of Columbia River fish resources with computer models, present capabilities and future plans
Sess. T
- M:31 E. Ikonen *et al.* The origin of wild salmon in the Gulf of Finland landings
Ref. J
- M:32 E. Ikonen The possible effects of environmental and oceanographic factors on abnormally high salmon fry mortality in the Baltic Sea
Ref.
C+H+J
- M:33 A. Ahvonen and E. Ikonen Temporal, spatial and smolt quality originated variation in the results of Finnish sea trout tagging experiments
Ref. J
- M:34 E. Ikonen and I. Kallio-Nyberg The origin of salmon in the Finnish offshore and coastal salmon fisheries in the Baltic Sea
Ref. J
- M:35 M.F. O'Grady and P.G. Gargan Factors affecting salmon production in Irish catchments
- M:36 Withdrawn.
- M:37 Withdrawn.
- M:38 Withdrawn.
- M:39 A. Sepulveda *et al.* Distribution patterns and production of early life stages of European smelt, *Osmerus eperlanus* L., from the Elbe river

- M:40 D.A. Dunkley *et al.* The effect of misreporting grilse as salmon on the reported Scottish national catch
- M:41 D.H. Secor *et al.* Tracking the migrations of estuarine and coastal fishes using otolith microchemistry
- M:42 D.G. Reddin and
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- M:44 R. Poole *et al.* An assessment of the sea trout from the Burrishoole fishery, 1970-1993
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- M:51 V. Pruuki
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- M:52 M.M. O'Farrell *et al.* Western Ireland migratory trout: smolt production, timing of migration and biological characteristics
- M:53 A.V. Zubchenko
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- M:54 A.V. Zubchenko
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- M:55 V.K. Mitenev Parasitic fauna of the Barents Sea and White Sea salmon, *Salmo salar* L.
- M:56 P. Gargan and
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- N:2 Report of the ICES/NAFO Workshop on Survey Methodology for
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- N:3 Report of the Study Group on Seals and Small Cetaceans in
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- N:4 Publications of interest to the Marine Mammals Committee, 1992
- N:5 Report of the Study Group on Long-Finned Pilot Whales,
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- N:6 Report of the Workshop on the Distribution and Sources of
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- OK N:7 T. Haug *et al.* Studies of minke whale *Balaenoptera acutorostrata* ecology in the
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- N:8 K.T. Nilssen Diets of harp seals *Phoca groenlandica* feeding between the breed-
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- N:11 G. Kirkwood Incorporating allowance for risk in management: the revised
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- N:12 T. Similä and Persistence of natural markings on photographically identified
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- N:13 M. Goujon *et al.* Incidental catches of cetaceans by the French albacore tunadrift
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- N:18 D. Bloch and H.P. Joensen The influence of abiotic factors prior to a grind in the Faroe Islands and some comments on techniques used to drive pilot whales
- N:19 A.R. Lager Annual food intake of Northeastern Atlantic harp seals (*Phoca groenlandica*)
- N:20 P.E. Mårtensson Digestible energy of capelin and crustaceans in harp seals (*Phoca groenlandica*)
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- N:22 Yu. K. Timoshenko Dynamics of age composition of harp seal from the White Sea population
- N:23 V.I. Chernok *et al.* Increase of precision in estimates for abundance of harp seal on puppy gatherings
- N:24 V.A. Potelov and V.N. Svetochov Evaluation of seal abundance by method of abundance alteration in conventional "starting population" (The White Sea population of harp seal as example)

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- O Dynamics of Upwelling in the ICES Area
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- Q Factors Affecting the Exposure of Organisms to Contaminants at Interfaces in the Marine Environment
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- R Implications of Stock Enhancement of Marine Organisms
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- S Impact of Gelatinous Zooplankton Predators on Coastal and Shelf Ecosystems
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- U Improving ICES Science and Communications
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- V Impact of the 1993 Major Inflow to the Baltic Sea
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ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT

ACFM:1* Agenda, ACFM Consultations at the 1993 Statutory Meeting

ASSESSMENT WORKING GROUP REPORTS - 1993

- Assess:1 Report of the Arctic Fisheries Working Group, Copenhagen, 25 August - 3 September 1992
- Assess:2 Report of the Working Group on the Assessment of Northern Shelf Demersal Stocks, Aberdeen, 1-10 September 1992
- Assess:3 Report of the Working Group on the Assessment of Southern Shelf Demersal Stocks, Copenhagen, 8-17 September 1992
- Assess:4 Report of the Blue Whiting Assessment Working Group, Copenhagen, 9-15 September 1992
- Assess:5 Report of the Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak, Copenhagen, 6-14 October 1992
- Assess:6 Report of the Atlanto-Scandian Herring and Capelin Working Group, Copenhagen, 19-23 October 1992
- Assess:7 Report of the Working Group on Long-Term Management Measures, Copenhagen, 19-28 January 1993
- Assess:8 Report of the Planning Group for the Development of Multispecies, Multifleet Assessment Tools, Copenhagen, 29 January - 1 February 1993
- Assess:9 Report of the Study Group on the North American Salmon Fisheries, Woods Hole, MA, USA, 15-19 February 1993
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- Assess:10 Report of the Working Group on North Atlantic Salmon, Copenhagen, 5-12 March 1993
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- Assess:11 Report of the Working Group on *Nephrops* and *Pandalus* Stocks, Ostende, Belgium, 24 February - 4 March 1993
- Assess:12 Report of the Working Group on Methods of Fish Stock Assessment, Copenhagen, 3-10 February 1993
- Assess:13 Report of the Study Group on the North-East Atlantic Salmon Fisheries, Copenhagen, 1-4 March 1993
Ref. M
- Assess:14 Report of the Baltic Salmon and Trout Assessment Working Group, Copenhagen, 31 March - 7 April 1993
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- Assess:15 Report of the Herring Assessment Working Group for the Area South of 62°N, Copenhagen, 22 March - 2 April 1993
- Assess:16 Report of the Working Group on the Assessment of Demersal Stocks in the Baltic, Copenhagen, 14-22 April 1993
- Assess:17 Report of the Working Group on Assessment of Pelagic Stocks in the Baltic, Copenhagen, 20-28 April 1993

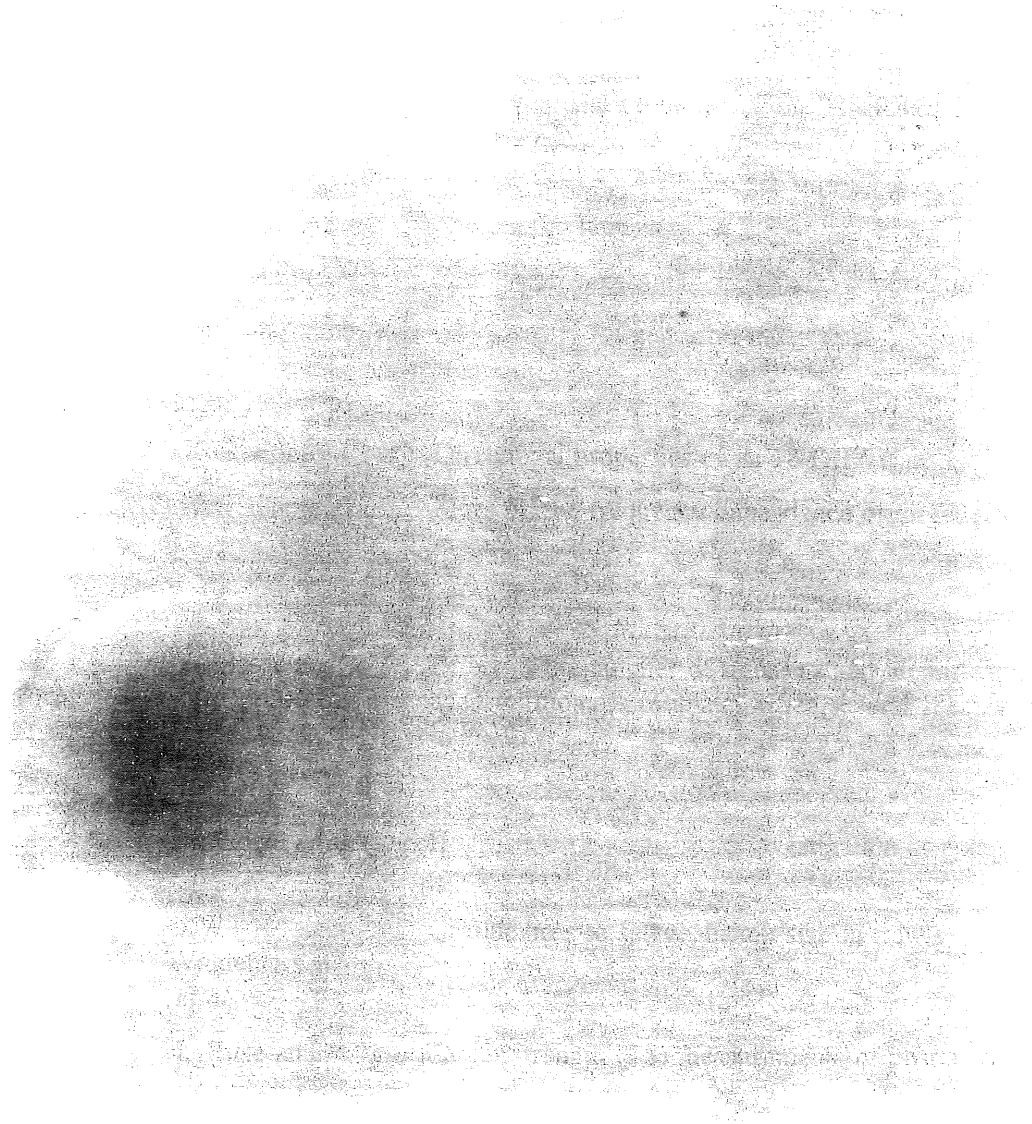
- Assess:18 Report of the North-Western Working Group, Copenhagen, 3-11 May 1993
- Assess:19 Report of the Working Group on the Assessment of Mackerel, Horse Mackerel, Sardine, and Anchovy, Copenhagen, 22 June - 2 July 1993
- Assess:20 Report of the Working Group on the Assessment of Northern Shelf Demersal Stocks, Aberdeen, Scotland, 15-24 June 1993

ACME - ADVISORY COMMITTEE ON THE MARINE ENVIRONMENT

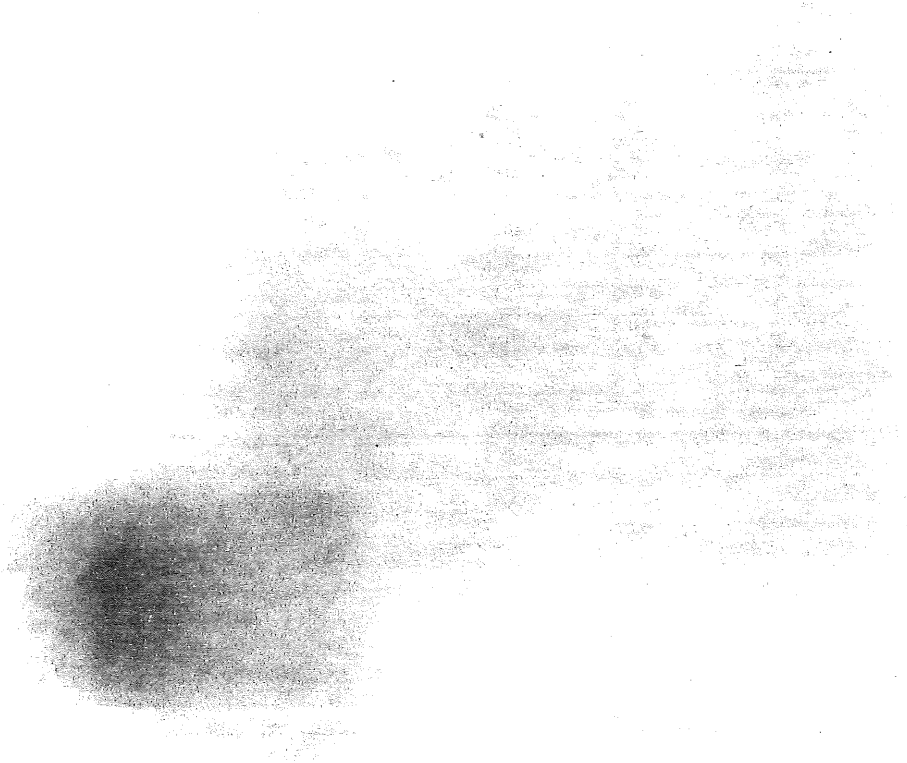
ACME:1* Agenda for the Advisory Committee on the Marine Environment - Consultation Meeting,
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- Env:1 Report of the Marine Chemistry Working Group, Ottawa, Canada, 8-13 February 1993
Ref. C+E
- Env:2 Report of the Working Group on Marine Sediments in Relation to Pollution, Char-
lottenlund, Denmark, 31 March - 3 April 1993
Ref. E
- Env:3 Report of the Working Group on Biological Effects of Contaminants, Charlottenlund,
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- Env:4 Report of the Joint Meeting of the Working Group on Marine Sediments in Relation to
Pollution and the Working Group on Biological Effects of Contaminants,
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Ref. E
- Env:5 Report of the Working Group on Environmental Assessment and Monitoring Strategies,
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Ref. E
- Env:6 Report of the Working Group on Statistical Aspects of Environmental Monitoring,
Copenhagen, 27-30 April 1993
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- Env:7 Report of the Working Group on Phytoplankton and the Management of their Effects,
Copenhagen, 28-30 April 1993
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B-Fish Capture Committee

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C-Hydrography Committee

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