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COUNCIL MEETING 1993

# CONTRIBUTIONS TO BE PRESENTED AT THE 81th STATUTORY MEETING

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# GENERAL ASSEMBLY REPORTS AND PAPERS OF GENERAL INTEREST

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

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(E + F) = in English and French

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## **DEL - DELEGATES DOCUMENTS**

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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 $81^{st}$ 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.

## **FI - FINANCE COMMITTEE**

Fi:1\* Agenda for the Finance Committee

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## **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**

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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**

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<b>B</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 Ref. H		Report of the Working Group on Fisheries Acoustics Science and Technology, Gothenburg, Sweden, 21-22 April 1993
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 Sess. T	B. Nakashima	Detecting and measuring pelagic fish schools using remote sensing techniques
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 Ref. J+M	A.L. Toivonen and R. Hudd	Survival of undersized salmon after release from the trap net
<b>B</b> :11	V. Moderhak	Some problems of water flow through the trawl codend
B:12 Ref. J	J. Zaucha et al.	Preliminary studies of selectivity of cod gill nets in the Baltic
B:13	B. van Marlen <i>et</i> 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 ( <i>Clupea harengus</i> L.) escaping from a trawl codend and through a rigid sorting grid
B:15 Ref. K	P.J. Dare et al.	The efficiency of spring-loaded dredges used in the western English Channel fishery for scallops, <i>Pecten maximus</i> (L.)
B:16 Ref. D,G,H,J,K, N	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
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
B:18	A. Engås and E. Ona	Experiences using the constraint technique on bottom trawl doors

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B:19 Ref. H	O.R. Godø and J.W. Valdemarsen	A three level pelagic trawl for near surface sampling of juvenile fish
B:20 Ref. K	R.P. Briggs and J.H.B. Robertson	Square mesh panel studies in the Irish Sea Nephrops fishery
B:21 Ref. D,G,H,J,K, N	K. Korsbrekke and O.A. Misund	On subjectivity in the judging of acoustic records; comparison of degree of homogeneity in allocation of echo values by different teams
B:22 Ref. F	Å. Bjordal	Capture techniques for wrasse (Labridae)
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 et al.	Joint Russian-Norwegian selectivity experiments on cod ( <i>Gadus morhua</i> L.) with 55 mm sorting grid in demersal trawls in the Barents Sea in July 1992
B:25 Sess. T	T. Lindem and D. AL Houari	EP-500 - a system for processing and presentation of echogram data produced by the SIMRAD EY-500/EK-500 echosounders
B:26 Ref. K+L	PO. Larsson <i>et al</i> .	Effects of heavy fishing with <i>Nephrops</i> trawls on the seabed and bottom fauna
B:27	P.A.M. Stewart	Fish capture research - needs and opportunities
B:28 Sess. T Poster	R.J. Korneliussen	Advances in Bergen echo integrator
B:29	K.G. Foote	Directional properties of an 18-KHZ transducer
B:30 Ref. H	K.G. Foote et al.	More on the frequency dependence of target strength of mature herring
B:31		Withdrawn.
B:32 Ref. D, G,H,J,K,N	J. Massé and N. Retière	Effect of the number of transects and identification hauls on acoustic biomass estimates when several species are present in an area
B:33	K. Lange	Design and construction of cambered V-doors
B:34 Ref. H+J	E. Götze et al.	Hydroacoustic small scale investigation of pelagic fish stocks
B:35 Ref. K	J.W. Valdemarsen et al.	Grid devices to select shrimp size in trawls
B:36	I. Huse and E. Ona	Target strength (TS) measurements of post spawning herring and cod
B:37 Ref. H	I. Huse and I. Røttingen	Diurnal variation in behaviour of wintering herring in a fjord in northern Norway

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B:38 Ref. E+L	M.J. Kaiser and B.E. Spencer	A preliminary assessment 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	In situ target strength measurements of Icelandic summer spawning herring in the period 1985-1992

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#### **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

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# **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
C:3 Ref. L		Report of the Working Group on Shelf Seas Oceanography, Charleston, SC, USA, 10-13 February 1993
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
C:6 Paper and Poster	M.J. Orren and P. Bowyer	Physical and chemical oceanographic research at the Oceanography Department, Martin Ryan Institute, University College Galway
C:7 Sess. O	M.J. Orren	A review of the intense upwelling system off the southwest coast of Africa - a model for ICES upwelling research
C:8 Sess. O	J.M. Cotos et al.	Upwelling dynamics in Spanish and Portuguese coast. A pilot study from NOAA-AVHRR images and geostrophic winds
C:9 Sess. T	J.M. Cotos et al.	Infrared image integration from METEOSAT and NOAA satellites using cross correlation techniques
C:10 Sess. T	J. Torres et al.	Follow-up and prediction of upwelling in the Iberian Peninsula west coast using meteorologic parameters, Ekman flux and satellite remote sensing
C:11 Paper and Poster	H. M. van Aken	Current measurements in the Iceland Basin
C:12 Sess. T	J.W. Ramster et al.	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 Paper and Poster	C.J. de Boer	Water mass distribution in the Iceland Basin calculated with optimal parameter analysis
C:17 Sess. T Poster	M. Ostrowski	"SKAGEX Atlas", a software package for the presentation of results of the International Skagerrak Experiment
C:18 Sess. T	M. Ostrowski et al.	Application of the "SKAGEX Atlas" package in studies of long-term water mass variability along a section in Skagerrak
C:19		Withdrawn.
C:20 Paper and Poster	E. Buch	The North Atlantic water component of the West Greenland current
C:21		Withdrawn.
C:22 Sess. O	R.L. Smith	On the process of upwelling: new observations and understanding
C:23 Sess. T Poster	J.J. Bisagni <i>et al</i> .	Measurements of temporal changes in the circulation of the Jordan Basin-Maine coastal current system
C:24		Withdrawn.
C:25 Paper and Poster	D.J. Ellett	Transit times to the NE Atlantic of Labrador Sea water signals
C:26 Sess. V	A. Grelowski and T. Wojewodzki	Distribution of highly saline waters observed in April 1993 after the inflow to the southern Baltic
C:27 Paper and Poster	O. Vagn Olsen	Spatial and temporal variability in winter concen- trations of nitrite in Kattegat and the North Sea
C:28 Sess. T Poster	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
C:29 Paper and Poster	W.R. Turrell et al.	Analysis of the historic time-series obtained in the Faroe-Shetland Channel
C:30 Sess. O	E. Hagen et al.	A case study of meso-scale motion patterns off the Portuguese west coast
C:31 Sess. O	R. Goward and G. Savidge	The influence of cool water incursions on phyto- plankton populations in Bantry Bay, southwest Ireland
C:32 Sess. T Poster	D. Whelan et al.	An <i>in situ</i> and remote sensing study of the near surface water parameters in the Waterford Harbour estuary and the Celtic Sea in June and July 1993

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C:33 Paper and Poster	L. Rickards	The status of data supply to the ICES Oceanographic Databank: the last 25 years
C:34 Sess. O	L. Nykjær and W. Schrimpf	Variability of coastal upwelling and cross-shelf transport off the Northwest African coast
C:35 Sess. T Poster	H. Hardarson	The Hugrun family of marine recorders and their applications, showing examples from Iceland and Canada
C:36 Sess. O Paper and Poster	M. Kahru	Effects of local upwellings on pelagic ecosystems
C:37	J.C. de Munck	Principles of inverse modeling of hydrographic data
C:38 Sess. T Poster	T. Knutsen and Y. Følling	Quality control of current measurements made by an Acoustic Doppler Current Profiler (ADCP)
C:39 Paper and Poster	J. Blindheim and F. Rey	Seasonal property and flux variations in the Atlantic inflow to the Nordic seas
C:40	A. Lavin et al.	Comparison over time of temperature and salinity at 24.5°N in the Atlantic
C:41 Paper and Poster	H. Loeng et al.	Current measurements in the northeastern Barents Sea
C:42 Paper and Poster	T. Gytre	An operative system for remote readout of STD stations via telephone
C:43 Sess. O	M. Mork and A.J. da Silva	Transient upwelling off West Iberia
C:44 Paper and Poster	K.A. Orvik and M. Mork	Recent investigations of the frontal region in the Norwegian coastal current
C:45 Paper and Poster	SA. Malmberg and J. Briem	Satellite tracked drogue experiment in Icelandic waters in 1992
C:46		Withdrawn.
C:47 Paper and Poster	G. Becker and G. Wegner	North Sea surface temperature means 1981 to 1990
C:48 Sess. V	E. Kleine	Numerical simulation of the recent (1993) major Baltic inflow

C:49		Withdrawn.
C:50 Paper and Poster	H. Giese	Multiparameter water mass analysis with error analysis of tracer data from the eastern Atlantic
C:51 Sess. V	W. Matthäus et al.	The major Baltic inflow in January 1993
C:52 Sess. V	W. Matthäus	Major inflows of highly saline water into the Baltic Sea - a review
C:53 <b>Poster</b>	R. Tamsalu and K. Myrberg	A baroclinic prognostic model of the Gulf of Finland
C:54	O.V. Titov et al.	Results of oceanographic investigations in the northeast Atlantic in spring, 1993
C:55 Sess. T Poster	N. Emerson and D. Burns	Computer-aided sea bed classification
C:56		Withdrawn.
C:57 Sess. V	B. Broman and H. Dahlin	The start of the 1993 major inflow to the Baltic Sea and the transport of salt and water through the Sound
C:58 Sess. V	H. Dahlin and B. Håkansson	The changes of the hydrographic conditions in the 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 Sess. O	John A. Johnson	Modelling coastal upwelling
C:61 Sess. O	D. Barton	Near surface dynamics of coastal upwelling

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# **REFERENCE PAPERS FOR THE HYDROGRAPHY COMMITTEE**

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, M:32, M:42, M:49, Env:1

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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 et al.	Development of a marine geographical information system for Aegean Sea
D:5	J.J. Pella et al.	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 et al.	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
D:10 Sess. P	W.H. Lenarz	Advice under uncertainty to managers for two fisheries of the northeastern Pacific
D:11 Sess. P	J. Rice	How to reduce the impact of model uncertainty on assessments and advice
D:12 Sess. P	A.A.Rosenberg and V. Restrepo	The Eloquent Shrug: expressing uncertainty and risk in stock assessments
D:13 Ref. M	O. Varis <i>et al</i> .	Belief networks in fish stock assessment - The Baltic salmon case
D:14 Sess. P	Sh. W. Frederick and R.M. Peterman	Choosing fisheries harvest policies: How much does uncertainties matter?
D:15 Sess. T	Y. Morizur et al.	An automatic data collection by using bar codes
D:16 Sess. P	Ø. Ulltang	Risk analysis and biological knowledge
D:17 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 Sess. T Poster	H. Troadec	TNPC, an assisted system for the interpretation of calcified structures
D:20 Sess. T Poster	Y. Coupez	Logbook reporting with GIS
D:21		Withdrawn.
D:22 Ref. G	M.J. Fogarty	Recruitment dynamics of Georges Bank haddock: Evidence for mutiple equilibria
D:23 Sess. T	S. Floen et al.	An integrated database for marine research
D:24 Ref. G	S. Fifas <i>et al</i> .	Sole fishery ( <i>Solea vulgaris</i> ) in the western English Channel (France). Sampling of commercial landings, stochastic length virtual population analysis, study of interactions between inshore and offshore trawlers
D:25 Sess. T Poster	C.T. Macer and R.A. Ayers	Monthly catch prediction software incorporating changes in fishing effort and mesh size using EXCEL spreadsheets
D:26 Sess. P	J. Horwood	Stochastically optimal management of fisheries
D:27 Ref. H	C.D. Darby	The use of spawning stock biomass estimates derived from egg surveys as indices for tuning separable VPA assessments
D:28 Ref. K	G.Y. Conan and F. Söler	Phase-space diagrams, a first approach to chaos modelling of North American landings of <i>Homarus americanus</i>
D:29 Ref. B,G,H,J, K,N	G.Y. Conan et al.	Practical comparison of shellfish biomass estimates by ordinary kriging (composition, and global) and 3 dimensional spline approximation
D:30 Ref. B+K	G.Y. Conan and D.A. Stolyarenko	On board real time mapping and assessing a resource during commercial fishing for optimizing catch and costs
D:31 Ref.B,G, H,J,K,N	E.J. Simmonds and R.J. Fryer	Survey strategies for structure populations; Part II. Precision of variance estimators
D:32 Ref. B	D.N. MacLennan	Gear selectivity and the variation of yield
D:33	E. Ferrandis and J.A. Posadas	A Gaussian process for the evolution of cohorts of marine fishes under exploitation
D:34 Ref. B,G,H,J, K,N	E. Ferrandis and P. Muck	Geostatistics and spatial simulation modeling: a new approach for improved resource evaluation
D:35 Ref. M	P.J. Rago	Two randomization tests for estimation of regional changes in fish abundance indices: application to North Atlantic salmon

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 et al.	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
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 et al.	Marine resource data base (MRDB), a database on vulnerable marine resources in Norway
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.
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 et al.	Index-removal estimators of population size which incorporate information on sampling gear selectivity
D:52 Ref. G+H+J	J.M. Hoenig et al.	Using prior and current information to estimate age composition: a new kind of age-length key
D:53 Ref. K	J.M. Hoenig et al.	An efficient design for index-removal and change-in-ratio estimation of population size with application to snow crab
D:54	P.A. Shelton and	Assessing the risk of failing to achieve replacement recruitment
Sess. P	M.J. Morgan	Torrandon
D:55 Ref. G	M.J. Morgan M.J. Morgan and J.M. Hoenig	Maturity at age from length stratified sampling

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

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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 Ref. Pub		Report of the Editor of the Techniques in Marine Environmental Sciences for 1993
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 Ref. L		Report of the Steering Group on Quality Assurance of Biological 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 Sess. V		Report of the Working Group on the Baltic Marine Environment, 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 R. Aps	Polychlorinated biphenyl isomers and chlorinated pesticides in 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 <i>et al</i> .	Screening of organophosphate and carbamate pesticides by cholinesterase inhibition
E:14	K. Cooreman <i>et al</i> .	EROD monitoring in dab from the Belgian continental shelf
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 Ref. L	A.J.R. Cotter and H. Rees	Environmental quality standards for protection of the marine environment: what ecological measures could serve?
E:17	J.M. Bewers and J. Karau	Sediment quality guideline development in Canada

E:18	R.J. Fryer and M. Nicholson	Predicting future contaminant levels in relation to EQOs using temporal trend monitoring data
E:19		Withdrawn.
E:20	P. Gentien and M. Lunven	New perspectives in coastal marine environment management due to new development in instrumentation
E:21	J. Tronczynski	An overview of atrazine in the estuarine environment
E:22 Ref. K	E. His and M.N.L. Seaman	Effects of twelve pesticides on larvae of oysters ( <i>Crassostrea gigas</i> ) and two species of unicellular marine algae ( <i>Isochrysis galbana</i> and <i>Chaetoceros calcitrans</i> )
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 Sess. Q	J.T. Hardy	Aquatic surface microlayer analysis and toxicity testing: a sensitive monitoring tool
E:25 Sess. Q	F. Quiniou et al.	Effet de sédiments marins et de leurs extraits aqueux sur la bioluminescence d'une bactérie (MICROTOX R) et sur le développement embryonnaire de bivalves
E:26 Sess. Q	D.R. Livingstone et al.	Application of cytochrome P4501A induction as a biomarker for impact by organic pollution in goby ( <i>Zosterisessor</i> ophiocephalus) and mussel ( <i>Mytilus galloprovincialis</i> ) in Venice Lagoon, Italy
E:27 Sess. Q	A.R.D. Stebbing	Interfacial accumulation of contaminants - is there a problem?
E:28 Sess. Q	J.J. Cleary et al.	Surface microlayer contamination and toxicity in the North Sea and Plymouth near-shore waters
E:29 Sess. Q	R.S. Carr et al.	Sediment quality assessment studies in Tampa Bay, Florida, USA
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
E:32 Sess. Q	D.M Lowe et al.	Lysosomal membrane danger as an <i>in vitro</i> marker of contaminant impact under field and experimental conditions
E:33 Sess. T Poster	L. Barratt <i>et al</i> .	Environmental sensitivity mapping of the western Black Sea
E:34 Sess. Q	A.R.D. Stebbing	Atmospheric benthic coupling (ABC) - a proposed ICES/IOC research project

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# **REFERENCE PAPERS FOR THE MARINE ENVIRONMENTAL QUALITY COMMITTEE**

B:38, F:6, F:13, H:48, J:3, K:4, L:4, Env:1, Env:2, Env:3, Env:4, Env:5, Env:6

# **F - MARICULTURE COMMITTEE**

F:1		Report of Activities, 1992
F:2		Publications of interest to the Mariculture Comittee, 1992
F:3		Report of the Working Group on Introductions and Transfers of Marine Organisms, Aberdeen, Scotland, 26-28 April 1993
F:4 Sess. R	P. Sandberg and R. Oen	Economic consequences of large-scale sea-ranching of cod in Norway
F:5		Report of the Working Group on Pathology and Diseases of Marine Organisms, Copenhagen, 15-18 March 1993
F:6 Ref. E		Progress Report of the Working Group on Environmental Interactions of Mariculture
F:7		Report of the Working Group on Genetics, Älvkarleby, Sweden, 8-11 June 1993
F:8		Report of the Working Group on Mass Rearing of Juvenile Fish, Bergen, Norway 24-26 June 1993
F:9 Ref. H		Report of the Second Special Meeting of Ichthyophonus, Aberdeen, Scotland, 21-22 January 1993
F:10		Withdrawn
F:11	J. Nast-Willführ <i>et</i> al.	Salinity effects on larval development in the African river prawn Macrobrachium vollenhoevenii
F:12	H. Rosenthal and J. Gessner	Activity patterns in cultured juvenile white sturgeon (Acipenser transmontanus Roch.)
F:13 Ref. E	H. Rosenthal et al.	Aquaculture and environmental regulations in EC countries: a report on the outcome of a Workshop held in Hamburg 23-25 November, 1992
F:14	H. Rosenthal	Trends in mariculture development in EC countries: a perspective
F:15	M. Keskin et al.	Pathways of bacterial contamination during egg incubation and larval rearing of turbot, <i>Scophthalmus maximus</i>
F:16 Ref. Pub		Report of the Editor of the ICES Identification Leaflets for Diseases and Parasites of Fish and Shellfish for 1993
F:17	K. Ruohonen and J. Vielma	Baltic herring-based-feeds might help to diminish the nutrient load from mariculture to the Baltic Sea
F:18		1993 Code of Practice to Reduce the Risks of Adverse Effects Arising from Introductions and Transfers of Marine Species, Including the Release of Genetically Modified Organisms
F:19	B. O'Connor et al.	The effect of harrowing and fallowing on sediment quality parameters under a salmon farm on the west coast of Ireland

F:20 Sess. R	C. Hvingel and J.G. Støttrup	How do reared turbot adapt to the environment? II. Condition indices
F:21 Sess. T Poster	A.M. Cawley and D.M. Kennan	Mathematical modelling - an effective approach to planning and environmental management for the mariculture industry
F:22	L. Barillé and J. Prou	Modelling Japanese oyster physiological processes under natural tide variation in suspended particulate matter
F:23 Sess. T	S. Wheatley et al.	An epidemiological investigation of diseases of farmed Atlantic salmon (Salmo salar L.) using a relational data base
F:24	P. Goulletquer et al.	Performance of triploid Pacific oysters <i>Crassostrea gigas</i> (Thunberg) reared in high carrying capacity ecosystem: survival, growth, and proximate biochemical composition
F:25 Sess. R Poster	T.S. Kristiansen and T. Næss	Production and winter survival of diapause eggs from marine calanoid copepods in a big outdoor tank in Norway
F:26 Ref. K+L	J.H.T. O'Mahony	Phytoplankton species associated with imports of the Pacific oyster <i>Crassostrea gigas</i> from France to Ireland
F:27 Ref. K	D. Minchin et al.	Introductions of exotic species associated with Pacific oyster transfers from France to Ireland
F:28	E. Nixon and B. Taaffe	DSP toxins in Irish mussels and the contribution of a new toxin DTX-2
F:29	D. Jackson et al.	The occurrence of DSP toxicity in Ireland
F:30 Ref. M	D. Jackson and D. Minchin	Variation in sea lice infestation on farmed salmonids in Ireland
F:31 Ref. M	D. Minchin and D. Jackson	Studies on <i>Caligus elongatus</i> infestations on farmed salmonids in Ireland
F:32 Ref. K	D. Minchin	Scallop spat production within sea-loughs by means of induced synchronised spawnings - a possible solution
F:33 Sess. R	B.R. Howell and S.M. Baynes	Are hatchery-reared sole equipped for survival in the sea?
F:34 Sess. R	T. Svåsand	Are reared organisms suited for release in the wild?
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
F:36	D.A. Smail and A.L.S. Munro	Vertical transmission studies on infectious pancreatic necrosis virus in Atlantic salmon (Salmo salar L.)
F:37	B. Björnsson	Optimal temperature of immature halibut ( <i>Hippoglossus hippoglossus</i> L.): effects of size
F:38 Ref. J+H	A. Turovski et al.	Ichthyophonus hoferi and Anisakidae larvae in herring and sprat in the northeastern Baltic
F:39 Ref. J+H	A. Turovski et al.	<i>Eimeria sardinae</i> invasion in herring and sprat in the northeastern Baltic

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F:40	W.J. Blogoslawski and J.B. Pearce	Mariculture development in northeastern United States
F:41 Ref. H	C.J. Sindermann and J.F. Chenoweth	The fungal pathogen <i>Ichthyophonus hoferi</i> in sea herring, <i>Clupea harengus</i> : a perspective from the western North Atlantic
F:42 Sess. R Poster	J.T. Nordeide et al.	Release of reared juvenile coastal cod (Gadus morhua L.) in order to enhance the stock in a fjord
F:43	R.H. Cook and E. Black	A strategic overview of mariculture development in Canada: current status and future directions
F:44		Withdrawn.
F:45 Sess. T	T. Lindem and D. Al Houari	Hydroacoustic monitoring of fish in aquaculture - A method for automatic feeding control by detection of fish behaviour
F:46	M. Héral	Evolution of oyster aquaculture: problems and perspectives
F:47	M. Schurno et al.	Rearing of whitefish ( <i>Coregonus lavaretus</i> L. F. Baltica) using two different start dry diets and a zooplankton diet in a brackish water environment
F:48	T. Mäkinen et al.	Feed wastage, feeding activity and behaviour of rainbow trout in net cage with pendulum feeders
F:49 Sess. R	J.H.S. Blaxter et al.	Report from the Symposium on Sea Ranching of Cod and Other Marine Fish Species, Arendal, Norway, 15-18 June 1993

# **REFERENCE PAPERS FOR THE MARICULTURE COMMITTEE**

B:22, G:30, H:12, K:21, L:30, L:31

# G - DEMERSAL FISH COMMITTEE

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G:1		Report of Activities, 1992
G:2	al.	Withdrawn.
G:3 Ref. A+C+L		Report of the Working Group on Cod and Climate Change, Lowestoft, England, 7-11 June 1993
G:4 Ref. A		Report of the Study Group on Ecosystem Effects of Fishing Activities
G:5		Report of the Study Group on Beam Trawl Surveys in 1992, Cuxhaven, Germany, 20-22 April 1993
G:6		Report of the Study Group on Redfish Stocks, Copenhagen, 12-14 May 1993
G:7 Ref. H		Preliminary report of the International O-Group Fish Survey in the Barents Sea and Adjacent Wayers in August-September 1993
G:8	A.M. Ajiad et al.	Can bioenergetics model explain seasonal growth of the northeast Arctic cod?
G:9 Sess. T Poster	S. Mazzola <i>et al</i> .	Software package for the assessment of abundance and distribution of demersal fish by fisheries surveys
G:10 Ref. J	B.R. MacKenzie et al.	The contribution of abiotic factors during the pelagic stages to recruitment variability in Kattegat plaice ( <i>Pleuronectes platessa</i> )
G:11		Withdrawn.
G:12	C.P. Alvarez and J.A. Pereiro	Study of the growth pattern of European hake ( <i>Merluccius merluccius</i> L.) using whole otoliths and length frequency distributions from commercial catches and groundfish surveys
G:13	A. Kikkert	Analysis of the cod samples collected in the North Sea during the 1991 International Stomach Sampling Project
G:14	T. de Gee and A. Kikkert	Analysis of the grey gurnard ( <i>Eutrigla gurnardus</i> ) samples collected during the 1991 International Stomach Sampling Project
G:15	N. Daan et al.	Analysis of the ray ( <i>Raja</i> spec.) samples collected during the 1991 International Stomach Sampling Project
G:16 Sess. T Poster	M.A. van der Land and H. Welleman	"Bessy Turf" - a Mackintosh application for on-board registration of survey catches
G:17	H. Dupouy et al.	Optimisation de la longueur de calage des filets maillants à baudroies sous diverses constraintes
G:18		Withdrawn.

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G:19	M. Mtimet and S. Fifas	Anglerfish (Lophius piscatorius) catch per unit effort de- saisonalization 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 Ref. B,D,H,J,K, N	A.J.R. Cotter	Intercalibration of groundfish surveys using regression analysis of year class mortalities
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 Sess. T Poster	T.W. Boon	The role of computers in the production of <i>ICES Cooperative</i> Research Report "Atlas of North Sea Fishes"
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 <b>Poster</b>	J.D. Metcalfe et al.	Data storage tags to be used in studies of plaice migrations in the North Sea
G:27	M.J. Kaiser and B.E. Spencer	Opportunistic feeding on benthos by fishes after the passage of a 4 m beam trawl
G:28	S. Alshuth and R. Grant Gilmore, Jr.	Egg identification, early larval development and ecology of the spotted seatrout, Cynoscion nebulosus C. (Pisces: Sciaenidae)
G:29 Sess. T Poster	L. Asgeirsson	Precision weighing at sea
G:30 Ref. F	R. Sundt and K.E. Jørstad	Population structure of wrasses used as cleanerfish in Atlantic salmon farming in Norway
G:31	W. Darwell et al.	The impact of a new fishery on wrasse populations in a small bay in the west of Ireland
G:32	J.R. Nielsen and M. Andersen	Feeding habits of Greenland cod, <i>Gadus ogac</i> , in the Nuuk area, West Greenland
G:33		Withdrawn.
G:34		Withdrawn.
G:35 Sess. T Poster	M.A. Liceaga-Correa and J.A. Diaz-Zavala	Otolith image analysis and its reading with a computer program
G:36	S.J. Walsh et al.	Changes in abundance and distribution of the Barents Sea stock of long rough dab, <i>Hippoglossoides platessoides</i> (Fabricius), during the period 1980-1992

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G:37 Ref. D	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 ( <i>Merluccius merluccius</i> ) 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 Ref.B,D,H, J,K,N	P. Munk	Describing the distribution and abundance of small O-group cod using ring-net sampling and echo-integration
G:41	P. Solemdal <i>et al.</i>	Size of spawning Arcto-Norwegian cod (Gadus morhua L.) and the effects on their eggs and early larvae
G:42	F. Garcia de Leon <i>et al</i> .	Approche multimétier de la lingue franche <i>Molva molva</i> en Manche-ouest
G:43 Poster	J.C. Poulard et al.	Depth and spatial distribution of <i>Lepidorhombus whiffiagonis</i> (Walb. 1792) by age group in Celtic Sea and Bay of Biscay
G:44 Ref. B,D,H,J,K, N	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
G:45	M. Giret et al.	Age determination of sole: comparisons of sole otolith readings made by different countries for various sole stocks
G:46 Ref. K	Channel Fisheries Study Group (CFSG)	Biogeographical identification of Channel fish and shellfish stocks (VIId and VIIe), relations with adjacent areas
G:47		Withdrawn.
G:48 Sess. P	W.L. Gabriel	Risk assessment in multispecies fishery management: an example from the Georges Bank groundfish fishery
G:49 Ref. H	H. Cabral and A. Murta	Feeding ecology of European hake (Merluccius merluccius) and blue whiting (Micromesistius poutassou) off Portugal
G:50	H. Marques da Silva	Estimates of life-stage abundance from modal decomposition of spiny dogfish, <i>Squalus acanthias</i> , 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, <i>Squalus acanthias</i> , in the NW Atlantic
G:53	H. Marques da Silva	Decomposition of the recruitment-stock relationship of the spiny dogfish, <i>Squalus acanthias</i> , in the NW Atlantic into embryo production and mortality
G:54	H. Marques da Silva	A density-dependent Leslie matrix population model of spiny dogfish, Squalus acanthias, in the NW Atlantic
G:55	H. Marques da Silva	Distribution of spiny dogfish, Squalus acanthias, in the NW

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G:56 Sess. P	F.M. Baldursson <i>et al</i> .	On the rational utilisation of the Icelandic cod stock
G:57	M.S. Shevelev et al.	Russian investigations on cod and haddock in the Barents Sea and adjacent waters in 1992
G:58	M.V. Kovtsova	Growth rate and maturity of Arcto-Norwegian haddock in 1987-1990
G:59	O.V. Smirnov et al.	Results of Russian investigations on Greenland halibut from the Norwegian/Barents Sea stock in 1992
G:60	A.V. Dolgov and K.V. Drevetnyak	Some peculiarities of feeding and food interrelations of deepwater redfish (Sebastes mentella) in the Barents and Norwegian Seas
G:61 Ref. B,D,H,J,K, N	K.V. Drevetnyak	Russian investigations of redfish (Sebastes mentella Travin) from the Norwegian-Barents Sea stock in 1992
G:62	N.V. Mokeeva	Stock assessment of long rough dab from the Barents Sea and adjacent waters
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. Oganesyan	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. boscii) in the North-East Atlantic (ICES Divisions VIIj-k, VIIIa,b,c and IXa)
G:67 Ref.B,D,H, J,K,L,N	J.V. Magnússon and S. Sveinbjörnsson	Report on the O-Group Fish Survey in Iceland and East Greenland Waters, AugSept. 1993

#### **REFERENCE PAPERS FOR THE DEMERSAL FISH COMMITTEE**

B:16, B:21, B:32, B:39, D:22, D:24, D:29, D:31, D:34, D:45, D:47, D:48, D:52, D:55, D:56, D:63, H:20, H:36, H:44, H:48, H:49, J:9, K:34, K:42, K:47, K:54, L:4, L:59, L:71, M:3, N:2, N:9, N:16, N:17

# H - PELAGIC FISH COMMITTEE

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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 ( <i>Micromesistius poutassou</i> )
H:6		Report of the Workshop on Blue Whiting Otolith Reading, Tórshavn, Faroe Islands, 2-6 November 1992
H:7 Sess. T Poster	S. Mazzola <i>et al</i> .	A software package to study the dynamics of pelagic ecosystems
H:8 Ref. C+M	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
H:9 Ref. C+M	L.V. Shannon <i>et al</i> .	Recent changes in the environment and in the distribution and abundance of pelagic stocks in the southern Benguela region
H:10	T. Monstad and S.V. Belikov	Report of the Joint Norwegian-Russian acoustic survey on blue whiting, spring 1993
H:11	E.J. Simmonds <i>et al</i> .	1992 ICES Coordinated Survey of ICES Divisions IVa, IVb, and VIa
H:12 Ref. F	T.A. Karaseva et al.	Results from studies of <i>Ichthyophonus hoferi</i> epizootic in the Atlanto-Scandian herring
H:13 Sess. T	J.A. Triñanes et al.	Monitoring and detection system for operational use in tuna fisheries
H:14	C.C.E. Hopkins and O. Nyholmen	Age, sex and seasonally related growth in body weight and composition in Balsfjord capelin (Mallotus villosus)
H:15 Ref. C+M	A.C. Gundersen	Distribution of larval and 0-group capelin (Mallotus villosus) in the Barents Sea in relation to environmental factors, 1981-1991
H:16	A. Corten	Results of a comparative age reading experiment on herring from the North Sea and adjacent waters
H:17	A. Eltink and B. Vingerhoed	The total fecundity estimate of western horse mackerel (Trachurus trachurus L.) in 1992
H:18 Ref. C+M	A. Corten	Learning processes in herring migrations
H:19 Sess. P	A. Corten	The use of the MBAL concept in management advice

H:20 Ref. G	R.J.H. Beverton et al.	The dynamics of maturation in long-lived fish populations
H:21	P. Fossum	A study of first feeding herring (Clupea harengus L.) larvae during the period 1985-1993
H:22		Withdrawn.
H:23 Ref. C+M	D.G. Reid et al.	Distribution of North Sea herring and their relationship to the environment
H:24		Withdrawn.
H:25 Poster	L. Motos	Egg production assessment of the Bay of Biscay anchovy, Engraulis encrasicholus L., in 1992
H:26	P. Gerrior <i>et al</i> .	Characterization of the U.S. pelagic pair trawl fishery in the Northwest Atlantic
H:27 <b>Poster</b>	K.L. Elder et al.	Using otolith distributions in surface sediments to reconstruct palaeoceanography of the Atlantic U.S. continental margin
H:28	C. Porteiro et al.	Abundance estimation and distribution of sardine in northern Spain (north of IXa and VIIIc Divisions)
H:29 Ref. L	H. Bjørke	Sampling of herring and capelin larvae with a modified WP-II net and a Gulf-III sampler
H:30		Withdrawn
H:31 Ref. C+M	R.L. Stephenson	Herring larvae and hydrography: studies and observations from the Bay of Fundy and Gulf of Maine
H:32 Sess. P	R.L. Stephenson and D. Lane	Avoiding the risk of ignoring risk: toward a framework for use of risk in decision making
H:33	C. Porteiro et al.	Estimation of biomass of horse mackerel ( <i>Trachurus trachurus</i> ) in northern Spain (northern IXa and VIIIc) using the daily egg production method
H:34		Withdrawn.
H:35		Withdrawn.
H:36 Ref. B,D,G,J, K,N	H. Dornheim	Abundance of pelagic species, especially mackerel and horse mackerel west of the British Isles and in the Gulf of Biscay in 1992 and 1993
H:37 Ref. C+M	M.E. Cunha et al.	Sardine survival strategies off the northern Portuguese coast
H:38	M.F. Borges et al.	Batch fecundity and fraction spawning of females from southern Atlantic horse mackerel ( <i>Trachurus trachurus</i> L.) in Division IXa (Portugal)
H:39	A.G. Murta et al.	Analysis of stomach contents of horse mackerel and mackerel in the Portuguese waters (Division IXa), 1990-1992
H:40 Ref. D	G. Pestana	Does the CPUE of the southern sardine fishery represent abundance?

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H:41 Ref. D	N.L. Shackell et al.	Age and sex-specific survival of Northern Grand Bank capelin (Mallotus villosus)
H:42 Poster	A. Solá et al.	Seasonal occurrence of pelagic fish eggs and larvae of interesting commercial species in the Cantabrian Sea (VIIIc) and Galicia (IXa) from 1990 to 1992
H:43	C. Franco et al.	Horse mackerel ( <i>Trachurus trachurus</i> L.) egg distribution and stage I egg production estimates in Divisions VIIIb,c and IXa in 1988, 1990 and 1992
H:44 Ref.B,D, G,J,K,N	A. Lago de Lanzos <i>et al</i> .	Mackerel (Scomber scombrus L.) egg distribution and stage I egg production estimates in Divisions VIIIb,c and IXa in 1988, 1990 and 1992
H:45 Ref. L	S.V. Belikov et al.	Preliminary results of the ichthyoplankton survey and observations on the post-spawning migration of blue whiting during April 1993
H:46	M. Meixide and C.G. Piñeiro	Comparative study on growth of blue whiting in several ICES Sub-areas
H:47	J. Jakobsson et al.	Stock related changes in biological parameters of the Icelandic summer spawning herring
H:48 Ref. B,D,E,G,J K,N,	F. Bingel et al.	Distribution of anchovy eggs and larvae ( <i>Engraulis enchrasicolus</i> Cuv.) in the Black Sea in 1991 and 1992 in comparison to former surveys
H:49 Ref. C+G		Report of the International Bottom Trawl Survey in the North Sea, Skagerrak and Kattegat in 1993: Quarter 1

## **REFERENCE PAPERS FOR THE PELAGIC FISH COMMITTEE**

B:3, B:16, B:19, B:21, B:30, B:32, B:34, B:37, B:39, B:40, D:27, D:29, D:31, D:34, D:43, D:45, D:52, D:56, D:63, F:9, F:38, F:39, F:41, G:7, G:21, G:40, G:44, G:49, G:61, G:67, J:9, K:34, K:42, K:47, K:54, L:4, L:22, L:40, L:41, L:47, L:71, M:3, M:9, M:10, M:13, M:29, M:32, M:42, M:49, N:2, N:9, N:13, N:16

# 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 Ref. A C+E		Report of the Steering Group on Fisheries/Environmental Management Objectives and Supporting Research Programmes in the Baltic Sea, Copenhagen, 17-18 June 1993
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, Gydnia, Poland, 7-11 June 1993
J:6		Report of the Planning Group for Hydroacoustic Surveys in the Baltic, Copenhagen, 19-20 April 1993
J:7		Report of the Study Group on Young Fish Surveys in the Baltic, Pärnu, Estonia, 24-29 August 1992
J:8	T. Raid and A. Lankov	Recent changes in feeding of herring and sprat in the northeastern Baltic
J:9 Ref. B,D,G, H,K,N	O. Bagge and E. Nielsen	Abundance of 0-group plaice in different areas in the Kattegat and in the Belt Sea in the period 1950-1992
J:10	O. Bagge and E. Steffensen	Danish discards of cod in Sub-division 22 as indicator of strength of year classes
J:11	H. Sparholt	Compilation of cod stomach data for the central Baltic MSVPA (+ an Addendum)
J:12	J. Ostrowski	Effects of sampling site on the herring food composition in the southern Baltic
J:13	B. Draganik and J. Kuczynski	Spatial distribution of the flounder and viviparous eelpout in the inshore waters of the Gulf of Gdansk
J:14		Withdrawn.
J:15 Ref. B	V. Feldman et al.	Report of the acoustic survey in ICES Subdivisions 26, 28 in October 1992
J:16	E. Karasseva and E. Zezera	Sprat eggs distribution and abundance in the western Baltic Sea in spring of 1992
J:17	E. Naumenko	Evaluation de la biomasse de population d'éperlan (Osmerus eperlanus morpha spirincus Pall.) dans la baille de la Mer Baltique d'après sa base alimentaire
J:18 Sess. R	PO. Larsson and J. Pickova	Stock enhancement experiments with cod, <i>Gadus morhua</i> , in the Bothnian Sea - conditions and expectations
J:19	T.B. Linkowski and M. Kowalew- ska-Pahlke	Growth of juvenile Baltic cod estimated from daily growth increments in otoliths

J:20	J. Flinkman	Herring predation avoidance in northern Baltic copepods and mysids
J:21 Sess. V	U. Waller et al.	The survival of eggs and the hatching of larvae of cod (Gadus morhua) at different oxygen levels
J:22 Sess. V	M. Plikshs et al.	The influence of environmental conditions and spawning stock size on the year-class strength of the eastern Baltic cod
J:23	A. Korolev et al.	Features of the Baltic herring's spawning grounds in the eastern Baltic
J:24	A. Naglis and L. Sidrevics	The analysis of mean weight-at-age changes of Baltic herring in the 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 A. Davidyuk	Herring feeding and growth in the Baltic Sea during 1977-1990
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 R. Froese	Synopsis of biological data on <i>Gadus morhua</i> L. in the Baltic Sea using the FISHBASE format
J:30 Sess. V	PO. Larsson	Abundance of the eastern cod stock in the Baltic in relation to environmental parameters
J:31 Sess. V	O. Bagge	Possible effects on fish reproduction due to the changed oceanographic conditions in the Baltic proper

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#### **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, F:38, F:39, G:10, G:21, G:40, G:44, G:61, G:67, H:36, H:44, H:48, K:34, K:42, K:47, K:54, L:23, L:27, L:28, M:3, M:7, M:8, M:15, M:16, M:17, M:28, M:31, M:32, M:33, M:34, M:51, N:2, N:9, N:16

# **K - SHELLFISH COMMITTEE**

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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 <i>Majid</i> Crabs, Jersey, Channel Islands, UK, 19-21 May 1993
K:4 Ref. E		Report of the Study Group on Impacts Likely to Affect Shellfish in Aquaculture and Natural Populations
K:5	H. Eiriksson	On the biennial breeding cycle of <i>Nephrops</i> 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 <i>Pandalus</i> 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
K:9	M. Aschan <i>et al</i> .	Results of Norwegian and Russian investigations of shrimp ( <i>Pandalus borealis</i> ) in the Barents Sea and Svalbard area in 1992
K:10 Poster	R. Melville Smith et al.	Recent changes in the growth rate of the South African spiny lobster, <i>Jasus lalandii</i> : possible causes, and management implications
K:11	T. Rasmussen et al.	Preliminary investigations on the population genetic differentiation of the deep water prawn, <i>Pandalus borealis</i> , Kröyer 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 <i>Loligo vulgaris</i> and <i>Loligo forbesi</i> (Cephalopoda, Loliginidae) in the Galician waters (NW Spain)
K:16	R. Witbaard and R. Klein	A method to estimate the bottom trawl intensity independent- ly from fisheries itself by using interal molluscan growth lines
K:17 Ref. C+L	Chr. R. Weidman and G.A. Jones	A new high-temporal resolution paleoceanographic tool for the northern North Atlantic: the mollusc <i>Arctica islandica</i>

K:18	O. Tully	Morphological lipofuscin (age pigment) as an indicator of age in <i>Nephrops norvegicus</i> and <i>Homarus gammarus</i>
K:19	E. González-Gurriarán et al.	Reproduction of the spider crab <i>Maja squinado</i> (Brachyura: Majidae) in the southern Galician coast (NW Spain)
K:20	J.P. Robin and E. Boucaud	Proportion of the squid <i>Loligo forbesi</i> and <i>Loligo vulgaris</i> in French landings of the Channel bottom trawl multispecies fishery; sampling scheme of the Port-en-Bessin landings and preliminary results
K:21 Ref. F	F.B. Mc Kelvey et al.	Recruitment potential of native oysters Ostrea edulis in Lough Foyle
K:22	D. Le Foll et al.	Relations biométriques chez l'araignée de mer <i>Maja</i> 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 Ref. D	F. Maynou et al.	Temporal and spatial structure of crustacean populations on <i>Nephrops</i> fishing grounds
K:26	P. Mallet et al.	Periodicity of spawning and duration of incubation time of <i>Chionoecetes opilio</i> in the Gulf of St. Lawrence
K:27	K. Mai et al.	Comparative studies on the nutrition of two species of Abalone, <i>Haliotis tuberculata</i> L. and <i>Haliotis discus hannai</i> Ino.
K:28	C. Talidec and J.L. Reyss	Determination of inter-individual growth variability of the Norway lobster from the Bay of Biscay ( <i>Nephrops</i> <i>norvegicus</i> ) by measurement of the <sup>228</sup> Th/ <sup>228</sup> Ra carapace ratio
K:29 Sess. R	G. van der Meeren and H. Næss	Lobster ( <i>Homarus gammarus</i> ) catches in southwestern Norway, including the first recaptures of previously released juveniles
K:30	P.R. Boyle et al.	Population zoology of <i>Loligo forbesi</i> (Cephalopoda: Loliginidae) in Scottish waters
<b>K:3</b> 1	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 Ref. D	G.J. Pierce and A. Guerra	A review of stock assessment methods used for cephalopod fisheries
K:34 Ref. B,D,G, H,J,N	N. Bailey et al.	Estimation of <i>Nephrops</i> stock abundance on the Fladen Ground from underwater television surveys
K:35	A. Moreno et al.	Population biology of veined squid (Loligo forbesi) and European squid (Loligo vulgaris) from the Portuguese coast

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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 Ref. B	J.M. de F. Pereira	Squid fishing trials with trawl nets off the Portuguese coast
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 énergetique de l'huître creuse ( <i>Crassostrea gigas</i> ) durant la période de forte croissance en mai en baie de Marennes-Oléron (France)
K:41 Ref. D	M. Ruth and A. Pulfrich	Dynamics of mussel stocks in the Wadden Sea of Schleswig- Holstein
K:42 Ref. B,D,G, H,J,N	A. Pulfrich and M. Ruth	Methods for monitoring spatfall of mussel (Mytilus edulis) in the Schleswig-Holstein Sea
K:43	M.A. Collins et al.	Recruitment, maturation and spawning of the squid <i>Loligo forbesi</i> 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 Ref. L	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
K:46 Ref. D	I.F. Lawler and J.C. Aldrich	Multimodel analyses of growth in Pecten maximus
K:47 Ref. B,D,G, H,J,N	M. Andersen	Inshore survey for snowcrab, Chionoecetes opilio, in West Greenland
K:48 Sess. T	K.J. Collins et al.	Analysis of Poole Bay, U.K. lobster data
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 <i>Maja</i> 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 Ref. D	U. Damm et al.	An elementary model of the life cycle of brown shrimp (Crangon crangon L.) in German coastal waters

K:53 Ref. D	A. Temming et al.	Trends in size composition in German commercial catches of brown shrimp ( <i>Crangon crangon</i> L.) and implications for population structure and stock condition
K:54 Ref. B,D,G, H,J,N	T. Neudecker	Abundance indices of <i>Crangon crangon</i> L. at the west coast of Schleswig-Holstein, North Sea
K:55	U. Feddersen et al.	Seasonal variation in larval abundance of <i>Crangon crangon</i> in three successive years
K:56	M.L. Coelho and H. Villa	Fecundity in squid <i>Loligo vulgaris</i> from the coastal waters of the Algarve, southern Portugal
K:57	M.L. Coelho et al.	Fecundity in squid <i>Loligo forbesi</i> from the coastal waters of the Azores
K:58	M.L. Coelho et al.	Maturation and recruitment in the squid <i>Loligo vulgaris</i> from the coastal waters of the Algarve, southern Portugal
K:59	M.L. Coelho and V. Bettencourt	Population structure of the squid <i>Loligo vulgaris</i> 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 Ref.D	R. Dijkema	Spatfall and recruitment of mussels ( <i>Mytilus edulis</i> L.) and cockles ( <i>Cerastoderma edule</i> L.) on different locations along the European coast
K:63 Sess. R Poster	R.C.A. Bannister	The United Kingdom approach to the enhancement of stocks of lobster (Homarus gammarus L.)
K:64 Ref. D	J.P. Hillis and O. Tully	Possible advances with the ageing of female <i>Nephrops</i> by separation of normal curves in length-frequency distributions
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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## **REFERENCE PAPERS FOR THE SHELLFISH COMMITTEE**

B:15, B:16, B:20, B:21, B:26, B:32, B:35, B:39, D:28, D:29, D:30, D:31, D:34, D:45, D:51, D:53, D:56, D:63, E:22, F:26, F:27, F:32, G:21, G:40, G:44, G:46, G:61, G:67, H:36, H:44, H:48, J:9, L:4, L:59, L:70, M:3, N:2, N:9, N:16

# L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

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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 Ref. A, C, E, G, H, K		Report of the Inter-Committee Recruitment Group, Dublin, Ireland
L:5		Report of the Working Group on Recruitment Processes
L:6		1993 Report of the Study Group on FISHBASE
L:7 Ref. C		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
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 Ref. Pub		ICES Identification Leaflets for Plankton. Editor's Report 1992/1993
L:13	D.J. Gifford	Planktonic Protozoa in copepod diet: examples from the North Atlantic and the North Pacific
L:14 Sess. O Poster	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
L:15	L. Sidrevics <i>et al</i> .	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 Sess. O	R. Raine et al.	Upwelling around the southwest Irish coast: near-surface dynamics and blooms of dinolflagellate <i>Gyrodinium aureolum</i> (Hulbert)
L:18 Sess. O	R. Raine et al.	Upwelling and the phytoplankton ecology of southwest Irish coastal waters

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, <i>Sprattus fuegensis</i> , 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. Rodrí- guez and F. Lozano-Salde- villa	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 phytocene 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	HCh. 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 <i>et</i> al.	The ecological role of some gelatinous predators in Norwegian waters
L:35	K. Sherman <i>et</i> 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 <i>Mnemiopsis</i> 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

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L:39	A. Korolev <i>et</i> al.	Investigations of the <i>Furcellaria lumbricalis</i> distribution and abundance at the eastern coast of the Baltic Sea
L:40 Ref. H	D. Cortés and T. Ramirez	Individual estimation of nutritional condition of northwestern Mediterranean anchovy larvae ( <i>Engraulis encrasicolus</i> ) through RNA/DNA analysis
L:41 Ref. H	A. Garcia <i>et</i> al.	Northwestern Mediterranean anchovy larval distribution ( <i>Engraulis encrasicolus</i> ) contrasted with food availability, larval condition (RNA/DNA) and hydrographic features
L:42 Sess. S	J.E. Purcell et al.	In situ predation rates on Bay anchovy eggs and larvae by Scyphomedusae and Ctenophores in Chesapeake Bay, USA
L:43	S. Kaartvedt et al.	Underwater optics and behavioural responses of krill to presence of fish predators' effect fish-plankton interactions
L:44	W. Melle et al.	Acoustic visualization of large scale macroplankton and micronekton distribution at a shelf/deep sea interface
L:45	H.R. Skjoldal et al.	Preliminary report from the sea-going workshop in Norway June 1993 on intercomparison and evaluation of method for sampling and determination of zooplankton distribution and biomass (ICES Study Group on Zooplankton Production)
L:46 Ref. B	T. Knutsen and E. Ona	Target strength measurements of the free swiming euphausiid Meganyctiphanes norvegica (M. Sars) at 120 kHz
L:47 Ref. H	P. Dalpadado	Some observations on the feeding ecology of Norwegian spring spawning herring <i>Clupea harengus</i> along the coast of Norway
L:48	T. Knutsen	Spatial and temporal distribution of eggs and larvae of the euphausiids <i>Meganyctiphanes norvegica</i> (M. Sars) and <i>Thysanoessa inermis</i> (Krøyer) in the slope and shelf waters off Møre, western Norway
L:49	B. Ellertsen <i>et</i> al.	Reproduction of <i>Calanus finmarchicus</i> off the western coast of Norway, in relation to the overwintering stock, hydrographic features and phytoplankton spring bloom development
L:50		Withdrawn.
L:51	F. Puelles <i>et</i> al.	Diel variations in vertical distribution of copepods in the north Iberian coast
L:52 Ref. M	A. Sepulveda	Daily growth increments in the otoliths of European smelt, Osmerus eperlanus L., larvae
L:53 Sess. O	A. Bode et al.	Variability of phytoplankton biomass and primary productivity in the shelf waters of the upwelling area of N-NW Spain
L:54	E. Gaard and H. Mortensen	Phyto- and zooplankton communities on the Faroe Bank and their relations to the physical and chemical environment
L:55 Sess. S	E.D. Houde <i>et</i> al.	Mesocosms adrift: a method to estimate fish egg and larvae mortality rates
L:56	Cl. Zelck	Horizontal and vertical distribution of <i>Cyclothone</i> - and <i>Vinciguerria</i> - 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 comunities 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 et al.	<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 opposum 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 et al.	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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L:75 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

### **REFERENCE PAPERS FOR THE BIOLOGICAL OCEANOGRAPHY COMMITTEE**

B:26, B:38, C:3, E:4, E:16, F:26, G:3, G:67, H:29, H:45, K:17, K:45, Env:7

#### **M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE**

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M:1		Report of activities, 1992
M:2		Publications of interest to the Anadromous and Catadromous Fish Committee, 1992
M:3 Ref. G,H,J,K		Report of the Study Group on Stock Identification Protocols for Finfish and Shellfish Stocks, Copenhagen, 16-19 August 1993
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 Ref. J	O. Vasin <i>et al</i> .	The effect of environmental factors on Baltic salmon growth in the sea
M:8 Ref. J	A. Mitans et al.	Sea trout in Latvia
M:9 Ref. C+H	S. Gudjónsson et al.	Relation of grilse/salmon ratio to environmental changes in several wild Atlantic salmon in Iceland
M:10 Ref. C+H	Þ. Antonsson et al.	Possible causes of fluctuation in stock size of Atlantic salmon in northern Iceland
M:11	M. Jóhannsson et al.	Anadromous brown trout (Salmo trutta L.) populations in southern Iceland
M:12	Þ. Gudjónsson	Marking and tagging of sea trout (Salmo trutta L.) in the river Ulfarsá in southwest Iceland
M:13 Ref. C+H	K.D. Friedland et al.	The production of North American and European Atlantic salmon: effects of postsmolt growth and ocean environment
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 Ref. J	R. Bartel and M. Parlinska	Size of the sea trout (Salmo trutta L.) eggs from 7 investigated Polish rivers
M:16 Ref. J	R. Bartel	Present status of the Vistula sea trout situation
M:17 Ref. J	R. Bartel et al.	Comparison of length and weight of river lamprey from Finland, 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.
M:21	Ø. Skaala <i>et al</i> .	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 <i>et al</i> .	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 Ref. J	ML. Koljonen	Genetic stock composition analyses of Baltic salmon catches
M:29 Ref. C+H	T.L. Marshall <i>et al</i> .	The potential influence of environmental/oceanographic factors on age-at-maturity of Atlantic salmon of the Saint John River, Canada
M:30 Sess. T	J.J. Anderson	Management of Columbia River fish resources with computer models, present capabilities and future plans
M:31 Ref. J	E. Ikonen et al.	The origin of wild salmon in the Gulf of Finland landings
M:32 Ref. C+H+J	E. Ikonen	The possible effects of environmental and oceanographic factors on abnormally high salmon fry mortality in the Baltic Sea
M:33 Ref. J	A. Ahvonen and E. Ikonen	Temporal, spatial and smolt quality originated variation in the results of Finnish sea trout tagging experiments
M:34 Ref. J	E. Ikonen and I. Kallio-Nyberg	The origin of salmon in the Finnish offshore and coastal salmon fisheries in the Baltic Sea
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

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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 Ref. C+H	D.G. Reddin and K.D. Friedland	Marine environmental factors influencing the movement and survival of Atlantic salmon
M:43	D.G. Reddin et al.	Forecasting the abundance of North American 2-sea winter salmon stocks and the provision of catch advice for the West Greenland salmon fishery
M:44	R. Poole et al.	An assessment of the sea trout from the Burrishoole fishery, 1970-1993
M:45	R. Poole et al.	Seatrout reconditioning and ongrowing: a three year study
M:46	R. Poole et al.	A study of age and growth in sea trout from Burrishoole fishery, 1985 to 1993
M:47	M. Dillane and R. Poole	Survival and growth of fry from reconditioned sea trout
M:48	K.F. Whelan et al.	The influence of environmental factors on the migration and survival of sea trout ( <i>Salmo trutta</i> L.) smolts from the Burrishoole system, Co. Mayo, Ireland
M:49 Ref. C+H	K.F. Whelan and G. Rogan	Factors affecting the marine survival of wild and reared salmon stocks from the Burrishoole catchment
M:50	J. Domagala and H.S. Faryniarz	Number of pyloric caeca as a possible herd marker for sea trout (Salmo trutta L.) in the Pomeranian rivers
M:51 Ref. J	V. Pruuki	Changes in the status of the salmon stock in the river Tornionjoki
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 et al.	Salmon rivers in the Kola Peninsula - Evaulation of the impact from the Norwegian drift net fishing on the status of Atlantic salmon stocks in some Barents Sea rivers
M:54	A.V. Zubchenko et al.	Salmon rivers in the Kola Peninsula. Status of Atlantic salmon stocks
M:55	V.K. Mitenev	Parasitic fauna of the Barents Sea and White Sea salmon, Salmo salar L.
M:56	P. Gargan and K.F. Whelan	The incidence of prematurely returning sea lice infested sea trout in Irish rivers, 1990-1993
M:57	T. Murphy et al.	Histopathological survey of sea trout in the west coast of Ireland during the summers of 1991 and 1992.
M:58	A.V. Zubchenko and O.G. Kuzmin	Salmon rivers in the Kola Peninsula. Reproductive potential and stock status of Atlantic salmon from the Umba River

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M:59

M. Salminen et al.

Differences in the production of Baltic salmon (*Salmo salar* L.) in the Gulf of Finland and in the Bothnian Sea - the significance of marine productivity and environmental stability

#### **REFERENCE PAPERS FOR THE ANADROMOUS AND CATADROMOUS FISH COMMITTEE**

B:10, D:13, D:35, F:30, F:31, H:8, H:9, H:15, H:18, H:23, H:31, H:37, L:52, Assess:9, Asssess:10, Assess:13, Assess:14

### N - MARINE MAMMALS COMMITTEE

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N:1		Report of Activities, 1992
N:2 Ref. B,D,G, H,J,K		Report of the ICES/NAFO Workshop on Survey Methodology for Harp and Hooded Seals, Archangelsk, Russia, 5-12 October 1992
N:3		Report of the Study Group on Seals and Small Cetaceans in European Seas, Cambridge, England, 29 March - 2 April
N:4		Publications of interest to the Marine Mammals Committee, 1992
N:5 Ref. A		Report of the Study Group on Long-Finned Pilot Whales, Copenhagen, 30 August - 3 September 1993
N:6		Report of the Workshop on the Distribution and Sources of Pathogens in Marine Mammals, Cambridge, England, 23-26 March 1993
N:7	T. Haug et al.	Studies of minke whale <i>Balaenoptera acutorostrata</i> ecology in the Northeast Atlantic: preliminary results from studies of diet and food availability during summer 1992
N:8	K.T. Nilssen et al.	Diets of harp seals <i>Phoca groenlandica</i> feeding between the breed- ing and moulting seasons in the southern Barents and White Seas
N:9 Ref. B,D,G, H,J,K	N. Øien and T. Øritsland	Aerial and visual surveys to estimate harp seal pup production in the Greenland Sea
N:10		Withdrawn.
N:11 Sess. P	G. Kirkwood	Incorporating allowance for risk in management: the revised management procedure of the International Whaling Commission
N:12	T. Similä and L. Lindblom	Persistence of natural markings on photographically identified killer whales (Orcinus orca)
N:13 Ref. H	M. Goujon et al.	Incidental catches of cetaceans by the French albacore tunadrift fishery. Preliminary results
N:14	G. Garcia- Castrillo <i>et al</i> .	Les mammifères marins du nord et du nord-ouest de l'Espagne en 1992
N:15		Withdrawn.
N:16 Ref. B,D,G, H,J,K	G.T. Waring	Spatial patterns of five cetaceans along a linear habitat
N:17 Ref. G	M.A. Collins et al.	Predator damage to net caught angler fish (Lophius piscatorius and L. budegassa) off the south coast of Ireland

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)
N:21		Withdrawn.
N:22	Yu. K.	Dynamics of age composition of harp seal from the White Sea
	Timoshenko	population
N:23	Timoshenko V.I. Chernok <i>et al</i> .	

#### **REFERENCE PAPERS FOR THE MARINE MAMMALS COMMITTEE**

B:16, B:21, B:32, B:39, D:29, D:31, 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, K:34, K:42, K:47, K:54

#### THEME SESSIONS FOR 1993 STATUTORY MEETING

O <u>Dynamics of Upwelling in the ICES Area</u> Co-Conveners: Dr E. Hagen and Mr A. Jorge da Silva

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C:7, C:8, C:22, C:30, C:31, C:34, C:36, C:43, C:60, C:61, L:14 (Poster), L:17, L:18, L:32, L:33, L:38, L:53, L:62, L:63, L:64, L:65, L:66, L:73, L:76

P <u>Management Objectives and Fishery Management Targets: Risk Assessment in the Provision of</u> <u>Scientific Advice</u> Convener: Dr J.G. Shepherd

D:9, D:10, D:11, D:12, D:14, D:16, D:18, D:26, D:38, D:54, D:66, D:69, D:70, D:71, G:48, G:56, H:19, H:32, N:11

Q Factors Affecting the Exposure of Organisms to Contaminants at Interfaces in the Marine Environment Convener: Dr H. Windom

E:24, E:25, E:26, E:27, E:28, E:29, E:32, E:34

R Implications of Stock Enhancement of Marine Organisms Convener: Ms J. Støttrup

F:4, F:20, F:25 (Poster), F:33, F:34, F:42 (Poster), F:49, J:18, K:29, K:63 (Poster)

S <u>Impact of Gelatinous Zooplankton Predators on Coastal and Shelf Ecosystems</u> Convener: Dr M. Reeve

L:20, L:21, L:34, L:36, L:42, L:55, L:60, L:61, L:68, L:69, L:74

T <u>Computers in Fishery Research</u> Co-Conveners: Mr E. Moksness, Dr B. Megrey and Mr J.W. Ramster

**Posters**: B:28, C:13, C:15, C:17, C:23, C:28, C:32, C:35, C:38, C:55, D:19, D:20, D:25, D:61, D:65, D:72, D:73, E:33, F:21, G:9, G:16, G:23, G:29, G:35, H:7, L:67, L:75,

**Papers**: B:7, B:25, C:9, C:10, C:12, C:18, D:1, D:6, D:7, D:15, D:23, D:36, D:39, D:40, D:42, D:44, D:62, D:64, F:23, F:45, H:13, K:48, L:37, M:30

- U <u>Improving ICES Science and Communications</u> Convener: Mr D. de G. Griffith
- V Impact of the 1993 Major Inflow to the Baltic Sea Convener: Mr H. Dahlin

C:14, C:26, C:48, C:51, C:52, C:57, C:58, E:6, J:21, J:22, J:30, J:31

#### **ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT**

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

#### ASSESSMENT WORKING GROUP REPORTS - 1993

Report of the Arctic Fisheries Working Group, Copenhagen, 25 August - 3 September Assess:1 1992 Report of the Working Group on the Assessment of Northern Shelf Demersal Stocks, Assess:2 Aberdeen, 1-10 September 1992 Report of the Working Group on the Assessment of Southern Shelf Demersal Stocks, Assess:3 Copenhagen, 8-17 September 1992 Assess:4 Report of the Blue Whiting Assessment Working Group, Copenhagen, 9-15 September 1992 Report of the Working Group on the Assessment of Demersal Stocks in the North Sea Assess:5 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 Report of the Planning Group for the Development of Multispecies, Multifleet Assess-Assess:8 ment Tools, Copenhagen, 29 January - 1 February 1993 Assess:9 Report of the Study Group on the North American Salmon Fisheries, Woods Hole, MA, Ref. M USA, 15-19 February 1993 Assess:10 Report of the Working Group on North Atlantic Salmon, Copenhagen, 5-12 March 1993 Ref. M 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 Ref. M March - 7 April 1993 Report of the Herring Assessment Working Group for the Area South of 62°N, Copen-Assess:15 hagen, 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

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> 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

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ACME:1\* Agenda for the Advisory Committee on the Marine Environment - Consultation Meeting, 22 September 1993

#### **ENV - ENVIRONMENT-RELATED WORKING GROUP REPORTS**

Env:1 Ref. C+E	Report of the Marine Chemistry Working Group, Ottawa, Canada, 8-13 February 1993
Env:2 Ref. E	Report of the Working Group on Marine Sediments in Relation to Pollution, Char- lottenlund, Denmark, 31 March - 3 April 1993
Env:3 Ref. E	Report of the Working Group on Biological Effects of Contaminants, Charlottenlund, Denmark, 31 March - 2 April 1993
Env:4 Ref. E	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, Charlottenlund, Denmark, 29-30 March 1993
Env:5 Ref. E	Report of the Working Group on Environmental Assessment and Monitoring Strategies, Copenhagen, 22-26 February 1993
Env:6 Ref. D+E	Report of the Working Group on Statistical Aspects of Environmental Monitoring, Copenhagen, 27-30 April 1993
Env:7 Ref. L	Report of the Working Group on Phytoplankton and the Management of their Effects, Copenhagen, 28-30 April 1993

# DOCUMENTS NOT RECEIVED OR WITHDRAWN FROM CM 1993

## **B-Fish Capture Committee**

 Not Received:
 B:6, 24, 26, 36, 37, 39

 Withdrawn:
 B:31

 Posters:
 B:

## **C-Hydrography** Committee

Not Received:	C:6, 7, 27, 36, 42, 50
Withdrawn:	C:18, 19, 21, 24, 32, 46, 49, 56
Posters:	C:13, 15, 23, 27, 28, 35, 38, 53, 55

## **D-Statistics Committee**

Not Received:	D:4, 5, 14, 22, 24, 29, 30, 33, 34, 38, 39, 40, 50,	53, 63, 69
Withdrawn:	D:8, 20, 21, 36, 37, 46, 49, 58, 59, 60, 68	
Posters:	D:19, 25, 61, 65, 72, 73	

### **E-Marine Environmental Quality Committee**

Not Received:	E:23, 24
Withdrawn:	E:12, 8, 10, 19
Posters:	E:33

## **F-Mariculture Committee**

Not Received:	F:14
Withdrawn:	F:10, 44
Posters:	F:21, 25, 42

## **G-Demersal Fish Committee**

Not Received:	G:7, 8, 10, 17, 37, 38, 39, 45, 46, 48, 49, 53, 62, 63, 66
Withdrawn:	G:2, 11, 18, 33, 34, 47
Posters:	G:9, 16, 23, 26, 29, 35, 43, 55

# **H-Pelagic Fish Committee**

Not Received:	H:2, 29, 37, 40, 46
Withdrawn:	H:8, 22, 24, 26, 30, 34, 35, 42
Posters:	H:7, 25, 27

# **J-Baltic Fish Committee**

Not Received:	J:30
Withdrawn:	J:14
Posters:	J:

## **K-Shellfish** Committee

Not Received:	K:2, 4, 7, 41, 52, 55, 56, 57, 58, 59, 60, 61
Withdrawn:	K:14
Posters:	K:10, 63

# **L-Biological Oceanography Committee**

Not Received:	L:2, 34, 35, 37, 46, 48, 49, 65, 71
Withdrawn:	L:26, 29, 40, 41, 50, 58
Posters:	L:14, 67

# **M-ANACAT** Committee

Not Received:	M:8, 30, 50
Withdrawn:	M:20, 23, 27, 36, 37, 38, 45, 46, 49
Posters:	<b>M</b> :

## **N-Marine Mammals Committee**

Not Received:	N:18,	19,	20
Withdrawn:	N:10,	15,	21
Posters:	N:		