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



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- C:3 A.G. Kostyanoy Mesoscale variability of hydrophysical fields generated by and the Canary Current upwelling from the navigational and Yu.V. Stepanov satellite observation data
- C:4 Ju.A. Vialov Variabilité de rotation terrestre et des pêches Ref.G+H and Yu.S. Altman
- C:5 A.A. Elisarov, Izhevsky's system of nature in the light of modern Ref. B.N. Kotenev investigations G+H and S.N. Rodionov
- C:6 Report of the PEX Study Group Meeting, Tallinn, 8-9 April Ref.E 1990
- C:7 G. Weichart The quality of "old" oceanographic phosphate data Ref.E
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- C:42 L. Fusco ESA RS data archives and user access for past, present,
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- D:2 Report of the Working Group on ADP Matters, Copenhagen. 15-16 March 1990
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- D:8 Withdrawn.
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- D:10 and D:11 Withdrawn.
- D:12 P. Petitgas A geostatistical variance of the total abundance esti-
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- E:2 A.Y. Cantillo and J.M. Bowers A catalogue of marine standards and reference materials
- E:3 J.M. Bowers and R.J. Pentreath Comparison of risks associated with marine fish consumption
- E:4 O. Bagge et al. Hypoxia and the demersal fish stock in the Kattegat (IIIa) and Sub-division 22
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- E:6 S. Møllergaard and E. Nielsen Fish disease investigations in Danish coastal waters with special reference to the impact of oxygen deficiency
- E:7 M.N. Moore and M.G. Simpson Molecular and cellular pathology in environmental impact assessment
- E:8 Editor's Report on Techniques in Marine Environmental Sciences
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- E:9 I. Marthinsen and G. Staveland Levels of mercury in flounder (*Platichthys flesus* L.) and cod (*Gadus morhua* L.) caught during the year 1988 in the Hvaler archipelago, southern Norway
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- E:10 J. de Boer et al. Intercomparison exercise on the analysis of individual chlorobiphenyl congeners in marine media - first step: optimization of gas chromatographic conditions
- E:11 A.D. Vethaak and T. ap Rheinallt A review and evaluation of the use of fish diseases in the monitoring of marine pollution in the North Sea
- E:12 D. Bucke and S.W. Feist Marine fish diseases: an overview of 10 years investigations by MAFF (UK)
- E:13 C.F. Fileman et al. Dissolved and particulate trace metals in surface waters over the Dogger Bank, central North Sea
- E:14 R.J. Law and M.D. Nicholson The 4th round hydrocarbon intercomparison programme: preliminary assessment of Stage 1
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- E:20 D. Vethaak, On the frequency of left-sided individuals in European
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- E:21 P.-O. Larsson Diseases of cod observed on Swedish surveys in the
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- E:24 L. Massie, Assessment of fish from the northern North Sea for oil
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- E:28 Report of the Working Group on the Effects of Extraction
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- E:29 A. Köhler- Report on the interdisciplinary research project "Fish
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- E:30 A. Köhler- Cellular responses in fish liver as indicators for toxic
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- E:31 T. Lang Infestation of North Sea whiting (Merlangius merlangus
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- F:3 Report of the Editor of the Disease Sheets
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- F:4 Withdrawn.
- F:5 V.G. Martynov, Rearing conditions for juvenile Atlantic salmon (Salmo
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- F:6 Withdrawn.
- ∥ F:7 J.-E. Juell Hydroacoustic detection of food waste - a method to
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- F:8 W.L. Silvert Modelling the feeding, growth, and metabolism of cultured
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- F:9 J.E. Stewart An analytical approach for evaluating opportunities in
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- F:13 Report of the Working Group on Pathology and Diseases of
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- F:14 Report of the Working Group on Introductions and
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- F:17 R. Lauterbach Production principles for rainbow trout aquaculture in
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- F:18 O. Fukuhara, Development and behaviour of larvae and juveniles of
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- F:19 E.A. Black, B. Redfern and H. Rosenthal New developments in air transportation of salmon smolts
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- F:22 R.C. Reyes, U. Waller and H. Rosenthal Respiration and behaviour of Macrobrachium rosenbergii at different levels of oxygen saturation
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- F:29 C.A. Fernandez-Pato et al. Growth of turbot (Scophthalmus maximus) from 1 to 3,000 g in the north of Spain
- F:30 C.A. Fernandez-Pato et al. Spawn, hatching, and larvae rearing of black spot sea bream (Pagellus bogaraveo): first experiences of its culture in the Oceanographic Center of Santander (Spain)
- F:31 C. Tapia-Martinez et al. Comparative study of larval survival and growth in sea bream (Pagellus bogaraveo) using microencapsulated or living food
- F:32 O. Cherequini Growth of wild black spot sea bream (Pagellus bogaraveo) under laboratory conditions. Some interesting parameters
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- F:55 D.M. Furevik Ref.M et al. Migratory patterns of escaped farm-raised Atlantic salmon
- F:56 Withdrawn.
- ✓ F:57 H. Rabben et al. Startfeeding success of halibut larvae as a function of temperature regime
- F:58 Withdrawn.
- ✓ F:59 L.H. Skjolddal et al. Calculated growth rate of halibut larvae (Hippoglossus hippoglossus L.) as a function of introduction time for Artemia sp.
- ✓ F:60 L.H. Skjolddal et al. A comparison of growth rate of halibut larvae (Hippoglossus hippoglossus L.) fed natural zooplankton and enriched Artemia sp.
- ✓ F:61 T. Næss et al. Green water in larvae culture - an experiment with natural phytoplankton in tanks for first feeding of halibut larvae (Hippoglossus hippoglossus L.)
- F:62 Withdrawn.
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- ✓ F:64 R. Nortvedt Ref.M et al. Smoltification of Atlantic salmon in different water qualities and subsequent growth in seawater, following distinct transfer strategies from freshwater.
- F:65 Report of the Working Group on Mass Rearing of Juvenile Marine Fish
- ✓ F:66 J. Munro et al. Stress and osmotic performance of Atlantic cod (Gadus morhua) at low enrichment salinity
- F:67 H.-J. Jennerich Investigations on offshore trout production along the coast of the German Democratic Republic
- ✓ F:68 G. Schneider, T. Jäger and H. Rosenthal Growing trout in global cages in an effluent plume of a coastal power station.
- F:69 Annegret Anders and E. Anders Diagnostic investigations of bacterial infections of rainbow trout in coastal waters of the German Democratic Republic
- F:70 E. Anders Experimental polyploidization in rainbow trout

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- F:71 W. Gierer Pharmacokinetic investigations on chloramphenicol in trout
- F:72 I. Achenbach and R. Fröse Presentation of a database system for information on and diagnosis of fish diseases
- F:73 I. Lein and I. Holmefjord Larval age at first feed intake in Atlantic halibut (Hippoglossus hippoglossus)
- F:74 I. Holmefjord and I. Lein Natural spawning of Atlantic halibut (Hippoglossus hippoglossus) in captivity
- F:75 Ref.M Progress report of the Study Group on the Genetic Risks to Atlantic Salmon Stocks

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G - DEMERSAL FISH COMMITTEE

- G:1 Report of Activities, 1989
- G:2 Report of the Study Group on Oceanic-Type Sebastes mentella, Reykjavik, 21-23 February 1990
- ✓ G:3 A.M. Ajiad Variabilities in stomach contents of cod, collected by demersal and pelagic trawl in the southern part of the Barents Sea
Sess.0
- 6 G:4 A.M. Ajiad Trophic interrelation between length groups of Northeast Arctic cod in the southern part of the Barents Sea
Sess.0
Poster *Circle publ. - have poster withdrawn*
- BB* G:5 J. Gjøsaeter, K.E. Jørstad and G. Nøvdal Genotype distributions of cod from the southeastern coast of Norway *withdrawn*
- G:6 A.V. Dolgov Daily feeding rhythms and food intake of the Barents Sea cod and haddock in the summer of 1989
Sess.0 and
N.A. Yaragina
- G:7 M.V. Kovtsova Distribution, abundance, and survival conditions of haddock fingerlings from the 1982-1989 year classes in the southern Barents Sea
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Y.M. Lepesevich
- G:8 M.S. Shevelev, Soviet investigations of cod, haddock and redfish within the Barents Sea and adjacent waters in 1989
A.E. Dorchenkov
and V.S. Manylov
- G:9 Withdrawn.
- G:10 G.P. Nizovtsev, Fisheries regulation measures and biological substantiation of the minimum landing size for the Arcto- and V.L. Tretyak Norwegian cod and haddock
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- G:11 A.V. Dolgov Estimation of rations and food consumption of deep-water redfish (Sebastes mentella) from the Norwegian-Barents Sea stock
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K.V. Drevetnyak
- G:12 A.P. Shvagzhdis Feeding peculiarities of Greenland halibut from the Norwegian-Barents Sea stock in 1980-1989
- G:13, G:14, and G:15 Withdrawn.
- G:16 N.Ja. Lipskaya Food consumption rates among fish larvae belonging to different biological groups
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- G:17 D. Pauly, Some features of fish food consumption estimates used by ecosystem modellers
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- G:18 H.B. Hernandez, The daily food consumption of Siganus fuscescens, an important herbivore in the seagrass communities of Bolinao, Pangasinan Province, Philippines
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and A. Jarre
- ✓ G:19 A. Jarre, A generalised approach for estimating daily ration from stomach content dynamics
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and D. Pauly

- G:20 J. Alperi Croissance des cardines (Lepidorhombus whiffiagonis et L. boscii) en Mer cantabrique (Division VIIIC du CIEM)
- G:21 H. Dupouy, Estimation de la mortalité par pêche et rendement par
D. Christien recrue du lieu jaune (Pollachius pollachius) du plateau
and B. Kergoat celtique
- V G:22 B. Bogstad and The consumption rate of North-East Arctic cod - a
Sess.0 S. Mehl comparison of gastric evacuation models
- G:23 Withdrawn.
- G:24 R.B. Millar Modelling environmentally induced change in growth for
Ref.D and R.A. Myers Atlantic Canada cod stocks
- G:25 R.B. Millar, Effect of capelin biomass on cod growth
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and P.A. Shelton
- G:26 L. Fahrig Concurrent exploitation of multiple stocks: a redfish
Ref.D and B. Atkinson simulation study
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Heessen and
A.D. Rijnsdorp
- G:28 Withdrawn.
- G:29 H.C. Welleman Annual check formation in otoliths as a starting point
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- G:30 H. Gislason Fishing patterns and yield variations
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- G:31 A. Temming Stomach evacuation rates of cod and herring estimated
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- V G:32 Aa. Bjordal Effects of trawling and longlining on the yield and
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T. Laevastu
- G:33 B. Hansen, Cod and haddock in Faroese waters and possible climatic
Ref.C A. Kristiansen influences on them
and J. Reinert
- G:34 F.W. Köster Tank experiments on board: a useful tool for the
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- G:35 P.J. Bromley Feeding in the trawl and the consequences for estimating
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- G:36 P.J. Bromley International database of the results of gastric
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- G:37 M. Greer The fecundity of sole (Solea solea) in ICES Division IVB
Walker and in 1987 and 1988 and VIId in 1988
P.R. Witthames

- G:38 R.S. Millner and C.L. Whiting Distribution and abundance of juvenile sole and plaice in the eastern English Channel from young fish surveys
- G:39 Withdrawn.
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G:40 D. Otterlei and P. Grotnes Poster The growth of ling (Molva molva) in populations along the continental shelf off Shetland, the Faroes, and Rockall
- G:41 J. Magnússon and Jutta V. Magnússon Icelandic investigations on the oceanic stock of S. mentella in the Irminger Sea in 1989 and 1990
- G:42 Jutta V. Magnússon Ageing and age composition of silver smelt (Argentina silus Asc.) in Icelandic waters
- G:43 J. Magnusson, K. Kosswig and Jutta V. Magnússon Further studies on young redfish in the East Greenland Shelf area
- G:44 Withdrawn.
- G:45 P. Pereda and I. Olaso Feeding of hake and monkfish in the non-trawlable area of the shelf of the Cantabrian Sea
- ✓ G:46 Ref.H Preliminary report on the international 0-group fish survey in the Barents Sea and adjacent waters in August-September 1990
- ✓ G:47 H. Gjøsæter and A.M. Ajiad Ref.H Growth of Polar cod (Boreogadus saida) in the Barents Sea
- U G:48 A.M. Ajiad and H. Gjøsæter Ref.H Diet of Polar cod (Boreogadus saida) in the Barents Sea related to fish size and geographic distribution
- U G:49 H. Loeng and Ref.C H. Gjøsæter Growth of 0-group fish in relation to temperature conditions in the Barents Sea during the period 1965-1989
- U G:50 Ref.C+L Report of the ICES Study Group on Cod Stock Fluctuations
- G:51 A.P. Robb Sess.O Gastric evacuation in whiting (Merlangius merlangus L.)
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- G:53 S. Reeves Ref.D Linear modelling of discard data from Scottish demersal fisheries
- U G:54 O.R. Godø and Sess.U K. Korsbrekke Comparison of catches of cod from Norwegian commercial trawlers and research vessels
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- G:61 H.-J. Rätz Ref.D Remarks on the reliability of the abundance estimates derived from groundfish surveys conducted in Greenlandic waters
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- G:63 P. Degnbol Sess.0 et al. Experimental estimation of food preference in cod - results of a pilot experiment
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- G:66 C.E. Purdom and D.J. Garrod Fisheries on the Dogger Bank
- G:67 R.P. Briggs Whiting recruitment studies using discard data from the Northern Ireland Nephrops fishery
- G:68 J. Jakobsson Poster Icelandic 0-group fish survey
- G:69 J. dos Santos Sess.0 and M. Jobling Aspects of gastric evacuation in the Atlantic cod (Gadus morhua L.)
- G:70 N. Daan Sess.S Ideas for re-arrangement of Assessment Working Groups

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B:16, C:4, C:36, D:6, D:21, D:24, D:26, D:34, D:35, D:36, E:4,
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H - PELAGIC FISH COMMITTEE

- V H:1 Report of Activities, 1989 (By E. Bakken)
- H:2 Report of the Mackerel/Horse Mackerel Egg Production Workshop, Lowestoft, 29 January - 2 February 1990
- H:3 Ref.G Sess.S Report of the International North Sea, Skagerrak, and Kattegat Bottom Trawl Survey Working Group, Copenhagen, 26 February - 1 March 1990
- V H:4 S.A. Iversen and E. Moksness A preliminary study of microstructure in otoliths of sea-caught mackerel (Scomber scombrus L.) larvae
- H:5 Second Report of the EEC-Norwegian Joint Scientific Group on Migration and Area Distribution of Mackerel (Western Stock), Brussels, 12-13 December 1989
- H:6 H. Sparholt Ref.D+G Using GLM analysis on the IYFS herring data for the North Sea
- H:7 E.I. Seliverstova Growth and maturation rate of Atlanto-Scandian herring in the 1950-1980s
- H:8 N.A. Isaev and S.V. Belikov Results of Soviet investigations on blue whiting in the Northeast Atlantic in spring 1989
- H:9 N.A. Barkova Sess.P and M.W. Domanevskaya Utilisation des informations satellitaires pour l'étude des particularités de répartition de la sardine dans l'Atlantique centre-est
- H:10 Withdrawn.
- H:11 E.M. Gerber Fish resources in oceanic areas of the North Atlantic
- H:12 L.I. Koval Etude du remplacement du contingent géniteur dans la population de chinchard, Trachurus symmetricus murphy (Nichols)
- H:13 Ref.C+G Report on the International Young Fish Survey in the North Sea, Skagerrak, and Kattegat in 1990
- V H:14 T. Monstad Distribution and growth of blue whiting in the North-East Atlantic
- V H:15 T. Monstad Some biological factors of blue whiting in the North-East Atlantic
- V H:16 B. Bogstad and Ref.G S. Tjelmeland Estimation of predation mortalities on capelin using a cod-capelin model for the Barents Sea
- H:17 W. Smith and W. Morse Larval distribution patterns: evidence for the collapse/recolonisation of Atlantic herring on Georges Bank
- H:18 P. Berrien Ref.L Atlantic mackerel egg production and spawner biomass estimates for the Gulf of St. Lawrence and Northeastern US waters, 1987

- H:39 N.A. Isaev Results of research on blue whiting to the west of the
and D. Minchin Irish coast in spring 1989
- H:40 Report on the ICES Herring Larval Surveys in the North
Sea and adjacent waters

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J - BALTIC FISH COMMITTEE

- J:1 Report of Activities, 1989
- J:2 List of Publications related to the interests of the Baltic Fish Committee
- J:3 R. Aps, L. Ustinova and B. Gentzen Allometric growth of the Baltic sprat otoliths
- J:4 R. Aps et al. Application of image analysis system in sprat otolith studies
Ref.G+H
- J:5 T. Raid On herring reproduction in the northeastern Baltic
- J:6 S. Shirokov Dynamics of maturation of the Baltic sprat
- J:7 L. Ustinova Growth of the juvenile Baltic sprat
- J:8 R. Aps A century of Baltic sprat biology investigations: stock identification, recruitment, otoliths
- J:9 R. Aps et al. Microstructure of the Baltic cod otoliths
- J:10 T.I. Bulgakova A model for the embryonal period in the Baltic cod life history
Ref.L and G.B. Grauman
- J:11 M. Plikshs and E. Gradalev Acoustic survey of the spawning stock of cod in the Eastern Baltic in 1989
- J:12 W. Weber and U. Damm Investigation on cod stomachs in the Western Baltic
- J:13 K.-J. Stæhr Report on the acoustic survey in ICES Sub-divisions 22, 23, and 24 in November 1989
Ref.B and Th. Neudecker
- J:14 K. Krenkel Preliminary results of fecundity investigations of R-Rügen spring-spawning herring in 1988 and 1989
- J:15 N. Schulz A new attempt to calculate consumption rates for cod (Gadus morhua) in the western Baltic
Sess.O
- J:16 O. Rechlin On the separation of catch projections for a stock with seasonal fisheries in different areas: herring assessment unit Division IIIa and western Baltic Sea
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- J:17 M. Hildén and P. Kultalahti Structural changes in the Finnish trawl fishery in the 1980s and the identification of fishing strategies
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- J:18 W. Grygiel The trends in Polish sprat landings and sprat biological characteristics in the Southern Baltic in the 1981-1986 period
- J:19 P. Margonski Some aspects of straight-nosed pipefishes' (Nerophis ophidion L.) biology in the Gdansk Bay

- J:20 J. Netzel Cod migrations in Southern Baltic
- J:21 Th. Neudecker Results of morphometric investigations on herring otoliths from the Western Baltic using an image analyser
- J:22 Th. Neudecker Changes in growth of Western Baltic herring from 1982 to 1989
- J:23 R. Thiel Community structure and niche relationships of young and small fish communities within the shallow water areas of a Baltic bay
Ref.L
- J:24 and J:25 Withdrawn.
- J:26 ~~E. Ona and L.E. Palmén~~ ~~The herring swimbladder and salinity; a comparison of Baltic and Norwegian spring-spawning herring~~
Sess.R *withdrawn*
- J:27 E. Aro Estimation of Baltic cod eggs and larvae drift by two-layer, two-dimensional linear flow model
Ref.C et al.
- J:28 E. Aro Estimation of changes in the abundance of Baltic herring and sprat stocks by combined hydroacoustic-trawl surveys in the Gulf of Finland in autumn, winter, and spring
et al.
- J:29 Report of the Study Group on Young Fish Surveys in the Baltic, Tvärminne, Finland, 3-7 September 1990
- J:30 A. Müller, Ovarian maturation and batch fecundity in Baltic sprat from the Bornholm Basin, 1988
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- J:31 Withdrawn.
- J:32 R. Parmanne The fecundity of herring in the northern Baltic Sea
and E. Kuittinen
- J:33 Withdrawn.
- J:34 Report of the Planning Group for Hydroacoustic Surveys in the Baltic, Copenhagen, 17-18 April 1990
- J:35 O. Hagström Acoustic estimates of the herring and the sprat stocks in the Baltic proper October 1989
et al.
- J:36 E. Steffensen The landings per unit effort of cod, plaice, flounder, dab, turbot, and brill in the western Baltic 1963-1989 as estimated from the Bagenkop fleet
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K - SHELLFISH COMMITTEE




- K:1 Report of Activities, 1989
- ✓ K:2 Gro I. van der Meer et al. Large-scale release experiment of juvenile lobsters, Homarus gammarus, in Norway
- K:3 A. Nicolajsen and H. Eiriksson A preliminary report on the reproductive cycle of Nephrops norvegicus at the Faroes
- K:4 B.I. Berenboim, A.I. Mukhin and G.K. Sheveleva Soviet investigations of shrimp, Pandalus borealis, in the Barents Sea and off the Spitsbergen area in 1989
- K:5 Withdrawn.
- K:6 I.S. Wehrtmann Ref.L Larval production of Crangon septemspinosa in waters adjacent to Chesapeake Bay, USA, in relation to oceanographic conditions
- K:7 I.S. Wehrtmann and C. Stagg Distribution of Crangon septemspinosa larvae off Chesapeake Bay, USA: a comparison of field data and the results of a larval transport model
- K:8 and K:9 Withdrawn.
- K:10 C.C.E. Hopkins, J.R. Sargent and E.M. Nilssen Total lipid content, and lipid and fatty acid composition of the deep-water prawn Pandalus borealis from Balsfjord, northern Norway: growth and feeding relationships
- K:11 A. Bodoy Ref. et al. E+F Mass mortalities of oysters (Crassostrea gigas) during the spring 1988 in the Bay of Marennes-Oléron (Atlantic coasts of France), related with environmental problems
- K:12 Withdrawn.
- K:13 R.C.A. Bannister Ref.F et al. The 1989 results from a lobster stock enhancement experiment on the east coast of England
- K:14 P. Walker, Sess.P P.J. Dare and E. Clark The potential of aerial photography for estimating intertidal stocks of mussels (Mytilus edulis) in the Wash, England
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6 K:15 A.M. Caramelo and G. Pestana An assessment of the shellfish Portuguese fishery (ICES Division IXa) and management strategies results
- K:16 Publications of interest to the Shellfish Committee, 1990
- GA K:17 Gro I. van der Meer Foraging activity in common shore crabs, Carcinus maenas on a blue mussel bed *withdrawn*
- K:18 Withdrawn.

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- K:19 C. Bacher Trophic capacity of the Bay of Marennes-Oléron: coupling
 Sess.Q a model of transport of particulate matter and a model
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- K:20 M. Héral, Decline of oyster production in the Maryland portion of
 B.J. Rothschild the Chesapeake Bay: causes and perspectives
 and P. Gouillet-
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- K:21 O. Tully and Spatial patterns of variability in length frequency
 J.P. Hillis distribution of Nephrops in the Irish Sea
- K:22 J.P.Hillis The Irish fishery for Nephrops on the Porcupine Bank
 and M. Geary
- * V K:23 S. Andersen Growth of scallop juveniles (Pecten maximus) in an en-
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











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L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

- L:1 (+ Addendum) Report of Activities, 1989
- L:2 J.H. Cowan, Jr. and E.D. Houde Estimates of relative predation potential by medusae, ctenophores and fish on ichthyoplankton in Chesapeake Bay
- L:3 E.D. Houde Temperature-dependent and size-dependent variability in vital rates of marine fish larvae
- L:4 A.G. Alexseeva, Effects of oceanographic conditions on primary production distribution in the Irminger Sea
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- L:5, L:6, and L:7 Withdrawn.
- L:8 R. Ian Perry The Georges Bank frontal system: mechanisms of plankton retention or dispersal
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- L:9 Withdrawn.
- L:10 H. Auf dem Distribution of auto-, mixo, and heterotrophic plankton
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-  L:11 Y. Desaunay ZEBULON, a simple suprabenthic sampling gear for
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and B. Stequert
- L:13 K. Richardson Annual distribution and production of phytoplankton in
and A. the southern Kattegat
Christoffersen
- L:14 B. Reguera, Distribution of Dinophysis acuta at the time of a DSP
I. Bravo and outbreak in the Rias of Pontevedra and Vigo (Galicia, NW
S. Fraga Spain)
-  L:15 M.E. Huntley Physiological rate measurements of zooplankton produc-
Sess.V tion rates - Beyond this broken promise
- L:16 Withdrawn.
- L:17 D.V. Holliday Acoustic assessment of zooplankton in the Irish Sea
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-  L:18 P. Juel Hansen The annual cycle of heterotrophic dinoflagellates in the
Kattegat; with emphasis on the trophic role in the
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- L:19 T. Gissel Contribution of zooplankton grazing in the decomposition
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- L:20 M. Berman Enhanced zooplankton processing with image analysis technology
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- $\% \circ$ L:22 J. Kane and J. Green Zooplankton biomass on Georges Bank 1977-1986
- L:23 K. Sherman, J. Jossi and J. Goulet Comparative stability of zooplankton communities of the Northeast US Shelf ecosystem and the North Sea ecosystem in relation to climatic variability
- L:24 K. Sherman Large marine ecosystems as global units for management: an ecological perspective
- $\% \circ$ L:25 A. Bedo Filter feeding by Appendicularians: various estimates of their grazing on Synechococcus sp. (cyanobacteria)
Sess.V
- L:26 C. Morales A review of the gut fluorescence method for estimating ingestion rates of planktonic herbivores
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- $\% \circ$ L:27 O.H. Haslund In situ measurements of copepod production: a comparison of two methods
Sess.V and M. Fryd
- $\% \circ$ L:28 P. Bernal A steady state trophic model for a highly productive embayment: Concepcion Bay, Chile
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- $\% \circ$ L:29 A. Yañez-Arancibia Trophic analysis of macrofauna, nektonic food consumption, and shrimp predation by fishes in Terminos Lagoon, Mexico
Sess.Q et al.
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- L:30 P. Degnbol The pelagic zone of central Lake Malawi - a trophic box model
Sess.Q
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- $\% \circ$ L:31 J.W. Baretta, P. Ruardij and A. Stam Ems estuary ecosystem model
Sess.Q
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- L:32 A. Cohen, R. Olivieri and F. Chavez An ecosystem model of Monterey Bay, California (merged with L:33)
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- $\% \circ$ L:34 E. Cohen A trophic model of Georges Bank
Sess.Q and M. Fogarty
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- L:35 K. Ruddle A quantitative energy flow model of the Mulberry Dike - Carp pond integrated farming system of the Zhujiang Delta, Guangdong Province, People's Republic of China
Sess.Q and V. Christensen
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- $\% \circ$ L:36 M.L.Palomares A trophic model of a Mediterranean lagoon, Etang de Thau, France
Sess.Q et al.
Poster

-  L:37 P. Schalk
 Sess.Q et al.
Poster Towards a conceptual model for the Antarctic marine ecosystem
-  L:38 S. Opitz
 Sess.Q
Poster A quantitative steady-state model of the trophic interactions in a Caribbean coral reef ecosystem
-  L:39 S. Pisanty
 Sess.Q
Poster The ecosystem of Lake Kinneret, Israel
-  L:40 L. Arbaca-
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Poster Valero-Pacheco First approach for a trophic model for Tamiahua, a coastal lagoon in Mexico
-  L:41 G. Silvestre
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-  L:42 C.M. Aravindan
 Sess.Q
Poster Trophic relationships of major food fishes in a semi-enclosed estuary of the southwest coast of India
-  L:43 W. Silvert
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- L:44 Withdrawn.
-  L:45 R. Santhanam,
 Sess.Q A. Srinivasan
Poster and M. Devaraj Trophic model in an estuarine ecosystem of the southeast coast of India
-  L:46 R. Jones
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Poster E.W. Henderson The detrital cycle and its interaction with higher trophic levels
-  L:47 J.G. Pope,
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Poster and J. Last A steady-state trophic model of the North Sea
- L:48 and L:49 Withdrawn.
-  L:50 A. Jarre
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Poster Seasonal changes in the Peruvian upwelling ecosystem
-  L:51 E.A. Chavez,
 Sess.Q M. Garduño and
Poster F. Arreguin-Sanchez Trophic dynamic structure of Celestun Lagoon, South Gulf of Mexico
-  L:52 M. Vega-Cende-
 Sess.Q jas, F. Arre-
Poster guin-Sanchez
 and M. Hernández Trophic fluxes in a beach seine fishery of the Campeche Bank

- L:53 F. Arreguin- Trophic box model of a coastal fish community of the
Sess.Q Sanchez, E. Western Gulf of Mexico
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and E.A. Chavez
- L:54 G. de la Cruz A. Trophic relationships in Mandinga Laboo Lagoon,
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- L:55 P.M. Alino An ecosystem model of a tropical reef flat in Santiago
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- L:56 P. Reyes- A preliminary ecosystem model of an eutrophic lake (Lake
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- L:57 F.A. Sanchez, An application of ECOPATH II model for analysis of the
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- L:58 E.B. Christensen San Miguel Bay, Philippines
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- L:59 J. Moreau, Trophic relationship in the fish community of Lake
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- L:60 R. Molinet A trophic model of Golfo Triste, Venezuela
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- L:61 H. Masundire A trophic model for Lake Kariba, Zimbabwe
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- L:62 B. Marshall A trophic model of Lake McIlwaine, Zimbabwe
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- L:64 A.A. van Dam, Trophic interactions in a napier grass (Pennis-
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F. Chikafum
- L:65 R.P. Noble and Resource flows in crop-pond aqua ecosystems in Malawi
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- L:66 A.D. Pongase Efficient aggregation of boxes in trophic ecosystem
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- L:67 D. Pauly and Three new approaches for the graphical representation of
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- L:68 V. Christensen The ECOPATH II Model
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- L:69 V. Christensen Global comparison
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- 9 / 2 L:70 U.S. Amara- An energy-flow model of Parakrama Samudra, an ancient
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- 8 / 1 L:71 A.D. Buijse A trophic model for IJsselmeer (The Netherlands) - a
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- 0 / 0 L:72 C. de la Cruz Steady-state models of a rice paddy ecosystem with and
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- L:74 M.V. Angel and Latitudinal patterns in biomass and diversity profiles
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- L:75 W. Greve Simulation-supported sequential synoptic sampling
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- L:77 B.I. Bergström, Determination of abundance of gelatinous plankton with a
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- L:78 H.-J. Hirche Towards a model of egg production in Calanus fin-
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- L:80 H.G. Franz Life cycle and production in Antarctic epipelagic cope-
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- L:81 D. Sameoto Use of multiple frequency acoustics and other methods in
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- L:82 Withdrawn
- 1 / 0 L:83 B. Hansen Functional relationship, particle retention, and selec-
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exemplified by a gastropod veliger

- L:84 N. Swanberg Assessing the role of gelatinous zooplankton in the
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and L.P. Madin
- L:85 G.P. Arnold, Acceptance characteristics of the Lowestoft high speed
B.H. Holford plankton samplers: the conical nose cone
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S.P. Milligan
- L:86 J.G. Braun Preliminary observations on picoplankton biomass in
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- L:87 C. Garcia- Seasonal distribution of zooplankton in Canary Island
Ramos et al. waters in the upper 200 metres
- L:88 J.M. Rodriguez First approach to the knowledge of ichthyoplankton in
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- L:89 A. Röpke, A comparative study on the vertical distribution of fish
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- L:90 R. Fröse Development of an underwater video system for recording
et al. of ichthyoplankton and zooplankton
- L:91 R. Fröese Growth strategies of fish larvae
- L:92 R. Fröese Presentation of a biological database for species of
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- L:93 J.W. Jossi Zooplankton community abundance coherence and stability
and J. Goulet of the Northeast Shelf ecosystem
- L:94 J.W. Campbell Ocean color applications in 1990: surviving the data gap
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- L:95 9th Report of the Benthos Ecology Working Group, Lisbon,
9-12 May 1990
- L:96 Report of the Working Group on Recruitment Processes,
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- L:97 M. Kloppmann The sampling efficiency of a horizontally towed Bé
multiple-opening-closing-net
- L:98 C. Clemmesen Improvements in the fluorimetric determination of the
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- L:99 B. Ueberschär A comparison of the nutritional condition of herring
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- L:100 B. Ellertsen Spawning strategy and a mechanism for adaptive larval
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- L:101 K.W. Estep Interactive computer taxonomy of marine algae
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- L:102 T. Noji and Protistan associations with fecal pellets
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- L:103 C. Noji, Benthic activity and respiration in a northern Norwegian fjord in late autumn
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Mini-Symp.
- L:104 J.A. Runge Egg production rates of Calanus finmarchicus in the Gulf
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- L:105 List of publications of interest to the Biological Oceanography Committee, 1989
- L:106 J.A. Morrison, Mass mortality of spring spawning herring eggs in
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Scottish waters
- L:107 A. Corten Efficiency measurements of Gulf III and HAI plankton samplers in a towing tank
- L:108 S. Alshuth Respiration and excretion rates of copepods from the Northwest Atlantic Ocean
- L:109 M.R. Roman and Size distribution analysis of zooplankton biomass using
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- L:110 Withdrawn.
- L:111 Report of the Editor of the Plankton Identification
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- L:112 J. Csirke Simplified trophic interactions in the Northern Pata-
Sess.Q gonia and Bonaerensis area in the Southwest Atlantic
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- L:113 S. Barnard Trophic dynamics in a gravel pit lake ecosystem
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- L:114 Withdrawn.
- L:115 R. de Paula E Fisheries productivity modelling of Maputo Bay,
Sess.Q Silva et al. Mozambique
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- L:116 J.A. Browder Trophic flows and organic matter budget, Gulf of Mexico
Sess.Q continental shelf
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C:28, C:36, G:27, G:50, H:18, H:19, H:20, H:25, H:26, H:27, H:29,
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M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE

- M:1 Report of Activities, 1989
- M:2 Report of the Study Group on the Norwegian Sea and Faroes Salmon Fishery, Copenhagen, 12-15 March 1990
- M:3 Report of the Study Group on the North American Salmon Fisheries, Halifax, Nova Scotia, 26 February - 2 March 1990
- M:4 ICES Compilation of Microtag, Finclip, and External Tag Releases in 1989
- M:5 E.D. Houde and L.G. Morin Temperature effects on otolith daily increment deposition in striped bass and white perch
- M:6 V.A. Anokhina and N.K. Vorobieva Comparative characteristics of developing eggs and early life stages of Atlantic salmon (Salmo salar L.) from different rivers
- M:7 T.K. Lebskaya et al. Dynamics of biochemical indices for reared juveniles of Atlantic salmon (Salmo salar L.) during smoltification
- M:8 A.V. Zubtchenko, A.F. Sharov and O.G. Kuzmin Atlantic salmon of the River Tuloma as the salmon stock index of the Barents Sea basin
- M:9 A.F. Sharov Simulation model of Atlantic salmon population
- M:10 Withdrawn.
- M:11 List of publications related to the interests of the Anadromous and Catadromous Fish Committee, 1989
- M:12 M. Hildén and Sess. S. Kuikka The analytical hierarchy process as a tool for analysing the perceptions of the salmon management problem in Finland
- M:13 R. Trzebiatowski and J. Domagala Efficiency of stocking small streams with the sea trout (Salmo trutta L.) hatch of different age
- M:14 C. Eriksson Experimental tagging of young salmon (Salmo salar L.) and sea-trout (Salmo trutta L.) with different types of the Carlin tag
- M:15 V.A. Pepper and M.F. O'Connell Coded wire microtagging of Atlantic salmon (Salmo salar L.) in Newfoundland, Canada
- M:16 E.J. Chesney A model of survival and growth of striped bass larvae, Morone saxatilis, in the Potomac River, 1987
- M:17 I. Fjallstein Relative decline of sample total weight in seawater challenge tests as a smolt quality criterion
- M:18 A. Moore et al. A technique for tracking Atlantic salmon (Salmo salar L.) smolts through estuaries
- M:19 I.C. Russell et al. A telemetric tracking system for high-resolution monitoring of fish movements

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- M:20 I.C. Russell Recoveries of coded wire microtags from salmon caught at
et al. West Greenland in 1989
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- M:21 I. Borzecka, Attempts of using the discriminant function based on
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- M:23 W.S. Davidson A polymorphism in the ribosomal RNA genes distinguishes
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REFERENCE PAPERS FOR THE ANADROMOUS AND CATADROMOUS FISH COMMITTEE

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N - MARINE MAMMALS COMMITTEE

- N:1 Report of Activities, 1989
- N:2 R. Duguay Rapport annuel sur les Cétacés et Pinnipèdes trouvés sur les côtes de France en 1989
- N:3 R. Duguay Variation de fréquence chez les Cétacés échoués sur les côtes de France au cours des 10 dernières années 1980-1989
- N:4 V.A. Potelov The abundance and state of the stock of harp seals and hooded seals in the Greenland Sea
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- N:5 J. Sigurjónsson Distribution and abundance of cetaceans in Icelandic and adjacent waters during sightings surveys July-August 1989
and
T. Gunnlaugsson
- N:6 T. Haug Harp seal (Phoca groenlandica) invasions in north Norwegian coastal waters: a preliminary report on age composition and feeding habits
et al.
- N:7 Withdrawn.
- N:8 H. Martins, Squid in the diet of sperm whales off the Azores
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- N:9 G. Garcia- Les mammifères marins du nord de l'Espagne en 1989
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- N:10 I. Christensen, A review of the distribution, migrations, food, reproduction, exploitation and present abundance of humpback whales (Megaptera novaeangliae) in the Northeast Atlantic
T. Haug and
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- N:11 K.T. Nilssen, The effect of invading harp seals (Phoca groenlandica)
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- N:12 O. Stenman Organochlorines in Baltic seals in 1980s
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- N:13 O. Stenman Les populations de phoques dans le Golfe de Finlande au cours des années 1980
- N:14 Report of the Joint Meeting of the Working Group on
Ref.E Baltic Seals and the Study Group on the Effects of Contaminants on Marine Mammals, Stockholm, 14-17 May 1990
Sess.T
- N:15 List of publications of interest to the Marine Mammals Committee, 1989
- N:16 Withdrawn.

N:17 R.R. Lick
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First record of fish intermediate hosts of Contra-
caecum spp. larvae, probably C. osculatum. Rudolphi
1802, an anisakine nematode maturing in pinnipeds, in
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✓ N:18 J. Beard

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proposal for discussion

N:19

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MINI-SYMPOSIUM ON BENTHIC ECOLOGY OF THE NORTH SEA

- Mini:1 A. Eleftheriou Planning and execution of the North Sea Benthos Survey and C. Heip
- Mini:2 A. Kunitzer et al. The benthic infauna of the North Sea: species distribution and assemblages
- Mini:3 I. Kröncke Macrofauna standing stock of the Dogger Bank. A comparison: 1950-1954 versus 1985-1987
- Mini:4 H.L. Rees et al. Spatial and temporal trends in the benthos and sediments in relation to sewage sludge disposal off the northeast coast of England
- Mini:5 U. Niermann Oxygen deficiency in the southeastern North Sea in summer 1989
- Mini:6 A. Eleftheriou The sedimentary environment of the North Sea
- Mini:7 P.F. Kingston Impact of offshore oil production installations on the benthos of the North Sea
- Mini:8 R. Huys and C. Heip Meiofauna of the North Sea Benthos Survey
- Mini:9 G. Duineveld and G.J. van Noort Geographical variation in the epifauna of the southern North Sea and adjacent regions
- Mini:10 C. Heip et al. Statistical analysis and trends in biomass and diversity of North Sea macrofauna
- Mini:11 M. Bergman et al. Direct effects of commercial beamtrawl fishing on benthic fauna in the North Sea

REFERENCE POSTER FOR THE MINI-SYMPOSIUM

- L:103 C. Noji, Benthic activity and respiration in a northern Norwegian
Poster T. Noji and fjord in late autumn
K.G. Barthel

PAPERS AND POSTERS FOR THEME SESSIONS

The Consumption Rate in Marine Fish (O) Convener: Mr. H. Sparholt, (Denmark)

F:8, G:3, G:6, G:11, G:16, G:17, G:18, G:19, G:22, G:31, G:34, G:35, G:36, G:51,
G:63, G:69, J:15

Remote Sensing Applications in Monitoring Programmes (P) Convener: Dr R. Dörffer
(Federal Republic of Germany)

B:13, C:11, C:12, C:14, C:15, C:29, C:33 (Poster), C:37, C:41, C:42, E:19, H:9,
K:14, L:94

Poster Session on Trophic Models of Marine Ecosystems(Q) Conveners: Dr D. Pauly
(Federal Republic of Germany) and Mr V. Christensen (Denmark)

G:4, H:36, K:19, L:28 to and including L:47, and L:50 to and including L:73,
L:112, L:113, L:115, L:116

Acoustic Methods (R) Convener: Dr J.Traynor (USA)

B:2, B:4, B:9, B:10, B:11, B:12, B:21, B:22, B:23, B:24, B:30, B:31, B:33, B:38,
B:40, B:41, B:49, B:50, J:26, L:12, L:17 (Ref. from Session V: L:81)

ACFM and Associated Working Group Reports (S) Convener: Mr. D. de G. Griffith,
(Ireland)

Assess:1 to Assess:25 included, and Assess:28 and 29; G:10, G:70, H:3, H:21,
M:12

ACMP and Related Working Group Reports (T) Convener: Mr J. Jakobsson (Iceland)

Poll:1 to and including Poll:7; C:8, E:28, F:12, F:13, N:14

Fishing Gear Selectivity (U) Convener: Mr D.N. MacLennan (UK)

B:3, B:14, B:26, B:27, B:28, B:34, B:46, G:54, G:55

Recent Developments in the Measurement of Zooplankton Production Rates and
Biomass Characteristics (V) Conveners: Dr J. Gamble (UK) and Mr H. Skjolddal
(Norway)

L:10, L:15, L:25, L:26, L:27, L:74, L:75, L:77, L:78, L:79, L:80, L:81 (Ref. to
Session R), L:83, L:84, L:104, L:109

ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT

- ACFM:1* Agenda, ACFM Consultations at the 1990 Statutory Meeting, 3
October 1990
- ACFM:2* Draft Agenda, ACFM, 30 October - 7 November 1990
- ACFM:3* Draft Proposal from ACFM: Terms of Reference for ACFM and
Assessment Working Groups in 1991

*For the relevant Committee only.

ASSESSMENT WORKING GROUPS REPORTS 1990

- Assess:1 Report of the Working Group on Multispecies Assessment of Baltic Fish, Moscow, 4-8 September 1989
- Assess:2 Report of the Irish Sea and Bristol Channel Working Group, Copenhagen, 13-19 September 1989
- Assess:3 Report of the Blue Whiting Assesment Working Group, Copenhagen, 13-19 September 1989
- Assess:4 Report of the Arctic Fisheries Working Group, Copenhagen, 19-28 September 1989
- Assess:5 Report of the Atlanto-Scandian Herring and Capelin Working Group, Copenhagen, 16-20 October 1989
- Assess:6 North Sea Flatfish Working Group, Copenhagen, 20-26 October 1989
- Assess:7 Report of the Roundfish Working Group, Aberdeen, 12-14 October 1989.
- Assess:8 Report of the Working Group on Harp and Hooded Seals, Bergen, 16-19 October 1989
- Assess:9 Report of the Working Group on Assessment of Pandalus Stocks, Copenhagen, 12-16 February 1990
- Assess:10 Report of the Division IIIa Demersal Stocks Working Group, Copenhagen. 28 February - 6 March 1990
- Assess:11 Report of the Working Group on North Atlantic Salmon, Copenhagen, 15-22 March 1990
- Assess:12 Report of the Working Group on Cod Stoks off East Grenland, Hamburg, 21-27 February 1990
- Assess:13 Report of the Industrial Fisheries Working Group, Copenhagen, 20-27 March 1990
- Assess:14 Report of the Herring Assessment Working Group for the Area South of 62°N, Copenhagen, 27 March - 6 April 1990
- Assess:15 Report of the Working Group on Methods of Fish Stock Assessments, Nantes, 10-17 November 1989
- Assess:16 Report of the Working Group on Nephrops, Nantes, 21-28 March 1990
- Assess:17 Report of the Working Group on Assessment of Demersal Stocks in the Baltic, Copenhagen, 17-26 April 1990
- Assess:18 Report of the Working Group on Assessment of Pelagic Stocks in the Baltic, Copenhagen, 17-26 April 1990
- Assess:19 Report of the Mackerel Working Group, Copenhagen, 24 April - 2 May 1990

- Assess:20 Report of the North-Western Working Group, Copenhagen, 1-8 May 1990
- Assess:21 Report of the Baltic Salmon and Trout Assessment Working Group, Copenhagen, 7-14 March, 1990
- Assess:22 Report of the Working Group on the Assessment of the Stocks of Hake, Copenhagen, 1-10 May 1990
- Assess:23 Report of the Working Group on Fisheries Units in Sub-areas VII and VIII, Nantes, 13-20 June 1990
- Assess:24 Report of the Working Grup on the Assessment of Sardine, Horse mackerel, and Anchovy, Copenhagen, 20-29 June 1990
- Assess:25 Report of the Working Group on Multispecies Assessments of Baltic Fish, Gdynia, 6-10 August 1990
- Assess:26 Transferred to 1991.
- Assess:27 Transferred to 1991.
- Assess:28 Report of the Special Meeting of the Multispecies Assessment Working Group, Bergen, 23-27 April 1990
- Assess:29 ACFM comments on stock assessment working group reports: a supplement (for working groups) to the ACFM minutes of November 1989 and May 1990

ACMP - ADVISORY COMMITTEE ON MARINE POLLUTION

ACMP:1*	Agenda for the Advisory Committee on Marine Pollution - Consultations Meeting, 3 October 1990
ACMP:2*	Work Programme from the Oslo and Paris Commissions
ACMP:3*	Requests from the Helsinki Commission
ACMP:4*	Tasks for Study/Working Groups reporting to ACMP
ACMP:5*	Report on the Statistical Analysis of CMP Data on Contaminants in Fish Liver and Mussels
ACMP:6*	Critical Review of Contaminants in Sediments
ACMP:7*	Results of the ICES Baseline Study on Trace Metals in Coastal and Shelf Waters

*For the relevant Committee only.

POLLUTION-RELATED WORKING GROUP REPORTS

- Poll:1 Report of the Marine Chemistry Working Group, Copenhagen,
Ref. C and E 12-16 February 1990
- Poll:2 Report of the Working Group on the Baltic Marine Environ-
Ref. C and E ment, Tallinn, 10-12 April 1990
- Poll:3 Report of the Working Group on Marine Sediments in Relation
Ref. E to Pollution, Lisbon, 3-6 April 1990
- Poll:4 Report of the Working Group on the Biological Effects of
Ref. E Contaminants, Nantes, 24-27 April 1990
- Poll:5 Report of the Working Group on Environmental Assessments
Ref. E and Monitoring Strategies, Charlottenlund, Denmark, 23-27
April 1990
- Poll:6 Report of the Working Group on the Statistical Aspects of
Ref. D + E Trend Monitoring, Copenhagen, 30 April - 4 May 1990
- Poll:7 Report of the Working Group on Phytoplankton and the
Ref. F + L Management of their Effects, Oban, Scotland, 3-7 April 1990

