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# Council Meeting, ICES

## 1994 ANNUAL SCIENCE CONFERENCE

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- Gen:4            Report of the Mid-Term Meeting of the Consultative Committee, ICES Headquarters,  
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- Gen:5            Advance Release of Tables, 1-6 of ICES Fisheries Statistics, Vol. 78, 1993
- Gen:6            1993/1994 overview of ICES Committees and subsidiary Groups and their "shadowing" by Secretariat staff, and schedule of ICES Meetings and assigning of document codes

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(E + F) = in English and French

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- Del:2\* Progress report on Administration for the year 1 November 1993 to 31 October 1994
- Del:3\* Report on Activities, 1993
- Del:4\* Estimated accounts for the financial year 1993/1994
- Del:5\* Draft budget for financial year 1994/1995 (E+F)
- Del:6\* Draft forecast budget for the financial year 1995/1996 (E+F)
- Del:7\* Elections and appointments by the Council at the 82<sup>nd</sup> Statutory Meeting (E+F)
- Del:8\* Proposal for an ICES policy on marine mammals
- Del:9\* Auditing of the Council's accounts and the relationship with the Auditor General of Denmark
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## A - CONSULTATIVE COMMITTEE

- A:1\* Agenda for the Consultative Committee
- A:2\* Minutes of ACFM Meeting, ICES Headquarters, 26 October-3 November 1993
- A:3\* Minutes of ACFM Meeting, ICES Headquarters, 17-25 May 1994
- A:4\* Minutes of ACME Meeting, ICES Headquarters, 25-31 May 1994
- A:5\* Report of Joint Meeting of ACFM and ACME, 24 May 1994, Charlottenlund Denmark
- A:6\* Ref. ACFM/ACME Planning Group for the Tenth Dialogue Meeting on "Fisheries and Marine Environmental Problems in the Bay of Biscay and Iberian Region", 22-23 March 1994, Vigo, Spain
- A:7 Ref. C,G,H,J+L Report of the Working Group on Cod and Climate Change
- A:8 Ref. E,N Report of the Study Group on Long-Finned Pilot Whales
- A:9 Ref. C,G,H,J+L Report of ICES/GLOBEC Cod and Climate Data Base Workshop
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- B:7 Report of the Sub-Group on Selectivity Methods
- B:8 Report of the Sub-Group on Methodology of Fish Survival Experiments
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- B:10 D.A. Wileman and  
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- B:11 **Withdrawn**
- B:12 J. Boje and  
Ref. K K.M. Lehmann Selectivity in shrimp trawl codend from an alternate haul experiment
- B:13 B. van Marlen *et al.* Intermediate results in EC-project TE-3-613 "Improved species and size selectivity of mid-water trawls (SELMITRA)"
- B:14 N. Madsen and  
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- B:15 S. Ehrich *et al.* Comparative fishing with FRVs "Walther Herwig" and "Walther Herwig III"
- B:16 E. Jónsson  
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- 1370 X B:19 I. Huse *et al.*  
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- B:20 G.Y. Conan *et al.*  
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C:8	M. Bersch and J. Meincke	Meridional transport estimates for the northern North Atlantic

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D:18	A.M. Shanks <i>et al.</i>	The use of catch and effort data in the assessment of <i>Nephrops</i> fisheries
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- F:13 D. Minchin and Monitoring of sea-lice infestations of farmed salmonids in Ire-  
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| F:28              | P. Burbridge                        | Planing process in coastal zone management   |
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| F:31              | O. Matsuda                          | Mariculture and coastal zone management in Japan: the case of the Seto Inland Sea  |
| F:32<br>Ref. Pub. | G. Olivier                          | ICES Identification Leaflets for Diseases and Parasites of Fish and Shellfish. Editors Report 1993/1994.   |

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- 1377X G:7 A.M. Ajiad *et al.* Can a bioenergetics model explain growth of the Northeast  
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- G:8 **Withdrawn**
- G:9 A.D. Rijnsdorp and Changes in growth of North Sea plaice since 1950 and its rela-  
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- G:12 **Withdrawn**
- G:13 T. Neudecker and Abundance indices of young plaice (*Pleuronectes platessa* L.)  
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\* matt fra Tjelmeland 2007-09-27

## G - DEMERSAL FISH COMMITTEE

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| 1379 X<br>G:27<br>Ref. B | A. Aglen and<br>O. Nakken              | Length dependent corrections of survey estimates of cod and haddock in the Barents Sea  |
| G:28                     | M.M. Martins <i>et al.</i>             | Evolution of the Portuguese fishery of black scabbard fish ( <i>Aphanopus carbo</i> Lowe, 1839) during the period 1984-1993   |
| G:29<br>Ref. K           | F. Redant and<br>H. Polet              | Introduction on the finfish by-catches and discards in the Belgian Norway lobster ( <i>Nephrops norvegicus</i> ) fishery  |
| G:30                     | I.Ya. Ponomarenko<br>and N.A. Yaragina | Maturity rate of the Lofoten-Barents Sea cod in 40s and 90s   |
| G:31                     | O.V. Smirnov <i>et al.</i>             | Results of Russian investigations for Greenland halibut from the Norwegian Barents sea stock in 1993  |
| G:32                     | V.K. Ozhigin <i>et al.</i>             | Dependence of the Barents Sea cod growth upon conditions of their feeding on capelin and water temperature  |
| G:33<br>Ref. L           | V. Shibanov and<br>S.P. Melnikov       | Status of the commercial stock of redfish ( <i>Sebastes mentella</i> Travin, Oceanic type) in the Irminger Sea in 1993 as evaluated by Russian Ichthyoplankton Survey |
| G:34<br>Ref. B           | V.M. Shibanov <i>et al.</i>            | Results of the Russian Trawl Acoustic Survey for <i>Sebastes mentella</i> of the Irminger Sea in 1993   |
| G:35                     | P.J. Bromley and<br>T. Watson          | The effect of sea bed type on the distribution of cod, haddock and whiting in the North Sea off the north east coast of England                                       |
| G:36<br>Poster           | D. Bucke <i>et al.</i>                 | Pathological investigations into pigment anomalies and blindness in angler fish ( <i>Lophius piscatorius</i> and <i>L. budegassa</i> ) from the Celtic Deeps          |

## G - DEMERSAL FISH COMMITTEE

- G:37 R.A. Myers and Is fish recruitment related to spawner abundance?  
Ref. H N.J. Barrowman
- G:38 J.E. Eliassen *et al.* Coastal and fjord resources off Finnmark and Troms Counties, Norway, based on the 1992 survey
- G:39 P. Solemdal *et al.* The spawning of Arcto-Norwegian cod in Lofoten during March-April 1994, influenced by temperature and tradition.
- G:40 Yu. M. Lepesevich Russian investigations on cod and haddock in the Barents Sea and adjacent waters in November 1993 - January 1994  
*et al.*
- G:41 C. Hammer and The effect of endurance swimming on growth, body composition and calorific content of 0-group whiting (*Merlangius merlangus*, Gadidae)  
Ref. F G. Schwarz
- G:42 A.P. Robb Analysis of the whiting stomachs collected in the North Sea during the 1991 ICES Stomach Sampling Project  
Ref. H *et al.*
- G:43 F.A. van Beek The "one and only" management objective of fishery biologists
- G:44 J. Magnússon *et al.* Report on the Joint Icelandic Norwegian Survey on Oceanic Redfish in the Irminger Sea and Adjacent Waters, in June/July 1994
- G:45 Report on the 0-Group Fish Survey in Iceland & East Greenland Waters, August - September 1994

REFERENCE PAPERS: A:7, A:9, A:10, B:10, B:14, B:16, B:22, B:23, B:28, B:29, B:30, B:32, D:1, D:4, D:6, D:7, D:10, D:11, D:13, D:14, D:19, E:12, E:16, F:9, F:11, F:12 (poster), F:16 (poster), H:6, J:14, J:19 (poster), J:20, J:24, K:25, K:34, L:14, L:16, L:25, L:26, L:27, M:5, N:12, N:14

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H - PELAGIC FISH COMMITTEE

H:1		Report of Activities 1993
H:2		Publications of Interest to the Pelagic Fish Committee, 1993
H:3		Report of the Planning Group for Herring Surveys
Ref. J		
H:4		Report of the Mackerel/Horse Mackerel Egg Production Workshop
H:5		Report of the Study Group on Herring Assessment and Biology in the Irish Sea and Adjacent Waters
H:6		Report of the International Bottom Trawl Survey Working Group
Ref. G		
H:7		Report of the Workshop on Herring Age Reading
Ref. J		
H:8	A. Eltink	Equilibrium Catch and Stock Predictions in weight and value for southern horse mackerel
H:9		<b>Withdrawn</b>
H:10	R. Stephenson <i>et al.</i>	Understanding the dynamics of herring: lessons from larvae
1399 X H:11	A. Dommasnes and	Hermod, a single species model of the Norwegian spring spawning herring stock
Ref. D	K. Hiis Hauge	
1400 X H:12	T. Monstad and	Investigations on blue whiting in the area west of the British Isles, spring 1994.
	S.V. Beilikov	
1401 X H:13	E. Torstensen	Results of the Workshop on Comparative Age Reading on Sprat from ICES Div. IIIa
Ref. D, J		
H:14		<b>Withdrawn</b>
H:15	H. Lassen and	Identifying Rügen herring in Skagerrak using <sup>137</sup> Cs as Tag.
Ref. J	E. Rasmussen	
H:16	H. Lassen and	On splitting herring in Kattegat-Skagerrak into spring and autumn spawners based on length and vertebral counts
Ref. J	E. Rasmussen	
H:17	G. Pestana	Population structure and commercial catches composition of sardine ( <i>Sardina pilchardus</i> ) in the Portuguese coast (ICES Div. IXa)
H:18	G. Pestana	A review of the Portuguese sardine fishery (ICES Div. IXa)
H:19	A. Farinha and	Daily egg production of horse mackerel ( <i>Trachurus trachurus</i> ) in Portuguese area (Div. IXa)
Ref. L	M.F. Borges	
H:20	A.G. Murta and	Factors affecting the abundance distribution of horse mackerel ( <i>Trachurus trachurus</i> Linnaeus, 1758) in the Portuguese waters (Division IXa)
Ref. D	M.F. Borges	
H:21		<b>Withdrawn</b>

## H - PELAGIC FISH COMMITTEE

- 1402X H:22 E.J. Simmonds *et al.* 1993 ICES co-ordinated acoustic survey of ICES Divisions IVa, IVb and VIa  
*A. Dommarmus*
- H:23 W.A. Montevercchi Cold water events and shifts in pelagic food webs  
Ref. C, L and R.A. Myers
- H:24 Report of the International Bottom Trawl Survey in the North Sea, Skagerrak and Kattegatt in 1994: Quarter 1
- H:25 K. Patterson and Report of the herring larvae surveys in the North Sea and  
D. Beveridge Adjacent Waters in 1993/1993

REFERENCE PAPERS: A:7, A:9, A:10, B:3, B:17, B:19, B:28, D:1, D:10, D:11, D:14 E:16, G:3, G:6, G:37, G:42, J:9, J:10, J:11, J:12, J:16, J:20, J:21, K:8, L:14, L:16, L:20, L:23, M:5, N:4, N:12, N:14

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J - BALTIC FISH COMMITTEE

J:1		Report of Activities
J:2		<b>Withdrawn</b>
J:3		<b>Withdrawn</b>
J:4		Planning Group for Hydroacoustic Surveys in the Baltic
J:5		Report of the Workshop on Baltic Cod Age Reading
J:6		Report of the Study Group on the Evaluation of Baltic Fish Data
J:7		<b>Withdrawn</b>
J:8		<b>Withdrawn</b>
J:9	G. Kornilovs	Yearly length distribution of herring in the Gulf of Riga in relation to populational structure of the stock
Ref. H		
J:10	F. Shvetsov and A. Rudneva	The growth and feeding of sprat in eastern Baltic
Ref. H		
J:11	V. Tshervonsev <i>et al.</i>	The eastern Baltic herring invaded by <i>Anisakis Simplex</i> (Rudolphi, 1809) larvae
Ref. H		
J:12	V. Tshervontsev <i>et al.</i>	Herring spatial distribution depending on food factor
Ref. H		
J:13		Report of the Acoustic Survey in ICES Sub. Div. 21, 22, 23 and 24 in September/October 1993
Ref. B		
J:14	H. Müller	Recruitment of western Baltic Cod
Ref. D, G		
J:15	O. Bagge <i>et al.</i>	Growth and abundance of dab and abundance of plaice in Århus Bay in relation to oxygen conditions 1953-1993
J:16	F. Arrhenius and S. Hansson	Functional response by young-of-the-year Baltic Sea herring ( <i>Clupea harengus</i> )
Ref. H		
J:17	A. Krajewska-Soltys and T.B. Linkowski	Densities of potential prey for cod larvae in deep-water basins of the southern Baltic
Ref. L		
J:18	P. Margonski and K. Horbowa	Co-occurrence of medusae and cod eggs in the Bornholm Basin
Ref. L		
J:19	M. Kowalewska-Pahlke	Food composition of young cod sampled in the 1993-1994 young fish surveys
Ref. G, L		
<b>Poster</b>		
J:20	B. Draganik <i>et al.</i>	Results of the screening of fish diseases in the southern Baltic
Ref. F, G, H		
J:21	T. Raid	Structure of Estonian herring catches in the Gulf of Finland
Ref. H		

## J - BALTIC FISH COMMITTEE

J:22

Withdrawn

J:23  
Poster

L. Vallin and  
A. Nissling

Early cell cleavages and their importance for further development in eggs from Atlantic and Baltic cod (*Gadus morhua*)

J:24  
Ref. G, L

B.R. MacKenzie  
*et al.*

The contribution of abiotic factors during the pelagic stages to interannual variability in settled 0-group plaice (*Pleuronectes platessa*) abundance in the Kattegat.

J:25  
Poster

A. Nissing and  
L. Vallin

The ability of Baltic cod eggs to maintain neutral buoyancy and the opportunity for survival in fluctuating conditions in the Baltic Sea

REFERENCE PAPERS: A:7, A:9, A:10, D:1, D:10, D:11 H:3, H:7, H:13, H:15, H:16, L:14, L:20, M:8, M:11, M:15, Assess:10, Env:9

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K - SHELLFISH COMMITTEE

K:1		Report of Activities
K:2		Withdrawn
K:3		Report of the Study Group on Life History, Population Biology, and Assessment of <i>Crangon</i>
K:4		Report of the Study Group on the Biology, Life History, and Assessment of <i>Majid</i> Crabs
K:5		Report of the Study Group on Spatfall and Recruitment in Bivalve Stocks
K:6		Report of the Study Group on Life Histories and Assessment Methods of <i>Pandalus</i> Stocks
K:7		Report of the Study Group on the Life History and Assessment of Cephalopods
K:8		Report of the Study Group on Life Histories and Assessment of <i>Pandalus</i> Stocks in the North Atlantic
K:9		Report of the Study Group on Life Histories and Assessment Methods <i>Nephrops</i> stocks
K:10	P.T. Gouletquer <i>et al.</i>	Mussel ( <i>Mytilus edulis</i> ) culture management along the Normandy coastline (France): Stock assessment and growth monitoring
K:11	J.P. Hillis	Advances in the ageing of <i>Nephrops norvegicus</i>
K:12	S. Kuzmin and S. Olsen	Barents Sea king crab ( <i>Paralithodes camtschatica</i> ). The transplantations were successful
K:13	J.K.T. Brodziak and W.K. Macy	Revised estimates of growth of long-finned squid, <i>Loligo pealei</i> , in the Northwest Atlantic based on statolith ageing: Implications for stock assessment and fishery management
K:14 Ref. L	J.R. Weinberg and L. Hendrickson	Factors associated with recruitment of the Atlantic surfclam, <i>Spisula solidissima</i> (Dillwyn)
K:15	T. Neudecker and U. Damm	Regional abundance indices of Brown Shrimp ( <i>Crangon crangon</i> L.) at the West Coast of Schleswig-Holstein, North Sea
K:16	E. Hoffmann and P.S. Kristensen	Assessment trials on a blue mussel population in a Danish fjord
K:17 Poster	J. Pellerin- Massicotte	Validation and calibration of the responses of biomarkers in an estuarine ecosystem
K:18 Ref. H	F. Shahidi	Utilization of marine processing discards and underutilized species
K:19	G.Y. Conan and P. Noël	Report of the first meeting of the International Workshop on Majid Crab Biology

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**K - SHELLFISH COMMITTEE**

- K:20 M. Rasero Relationship between cephalopod abundance and upwelling: The case of *Todaropsis eblanae* (Cephalopoda: Ommastrephidae) in Galician waters (NW Spain)  
 Ref. C, L  
**Poster**
- K:21 P.R. Boyle and G.J. Pierce Reproductive strategies of the squid *Loligo forbesi* (Cephalopoda: Loliginidae)
- K:22 G.J. Pierce *et al.* Distribution and abundance of the fished population of *Loligo forbesi* in Scottish waters: analysis of research cruise data  
**Poster**
- K:23 J. Norman *et al.* Preliminary molecular genetic analysis of stock structure in the squid *Loligo forbesi* (Steenstrup)  
**Poster**
- K:24 K. Siegert *et al.* Application of biochemical indices to measure growth rates in cephalopods  
**Poster**
- K:25 G. Stéfansson *et al.* The use of a stock production type model in evaluating the offshore *Pandalus borealis* stock of North Icelandic waters, including the predation of northern shrimp by cod  
 Ref. D, G
- K:26 **Withdrawn**
- K:27 **Withdrawn**
- K:28 **Withdrawn**
- K:29 V. Hernández-García and J.J. Castro A note about the DML distributions and catches of *Sepia berteloti* (Cephalopoda: sepiidae) on the Saharan bank
- K:30 E. González-Gurriarán and J. Freire Habitat, movements and migration of the spider crab *Maja squinado* in the Ria de Arousa (NW Spain). Preliminary data using ultrasonic telemetry.
- K:31 E. González-Gurriarán *et al.* Growth at moult and moulting seasonality of the spider crab *Maja squinado* (Decapoda: Majidae) in experimental conditions  
**Poster**
- K:32 F. M. Porteiro and J.J. Gonçalves Biology of *Loligo forbesi* (Mollusca: Cephalopoda) in the Azores: morphometric analyses, relative growth and growth by length frequency progression
- K:33 M.M. da Cunha and A. Moreno *Octopus vulgaris*: Its potential on the Portuguese coast
- K:34 D. B. Bennett Irish Sea and *Nephrops* interactions - can the model be validated?  
 Ref. G and A. R. Lawler
- K:35 T.A. Abrajano *et al.* <sup>13</sup>C/<sup>12</sup>C ratios in individual fatty acids of marine mytilids: molecular-level tracers of dietary sources and strategies
- K:36 J.A.A. Perez Critical transitions in gladius reconstructed early growth histories of short-finned squid, *Illex illecebrosus*  
 and R.K. O'Dor  
**Poster**
- K:37 M. Aschan *et al.* Results of Norwegian and Russian investigations of shrimp (*Pandalus borealis*) in the Barents Sea and the Svalbard area 1993, compared with earlier studies  
**Poster**
- K:38 S. Tr. Einarsson The Distribution and density of green sea urchin (*Strongylocentrotus droebachiensis*) in Icelandic Waters

## K - SHELLFISH COMMITTEE

- |      |  |   |
|------|--|---|
| K:39 | G.G. Thorarinsdóttir<br>and S. Tr. Einarsson | Distribution, abundance, populations structure. Meat yield, size of sexual maturity and sex ratio of the ocean quahog <i>Artica islandica</i> in Icelandic waters |
| K:40 |  | <b>Withdrawn</b>  |
| K:41 | A.M. Caramelo<br>and F. Cardador             | Comparison of VPA Results using two methods for conversion of length to age for <i>Nephrops</i> stocks in Portuguese waters (ICES, DIV. IXA)                      |
| K:42 | O. Bagge <i>et al.</i>                       | Comparative bottom sampling using "Haps" and "Petersen" samplers  |
| K:43 | F. Redant                                    | Sexual maturity of female Norway lobster ( <i>Nephrops norvegicus</i> ) in the central North Sea  |
| K:44 | R. Redant<br>and H. Polet                    | Results of a study on the Belgian <i>Nephrops</i> fishery in the Central North Sea  |
| K:45 | S.A. Organesyan                              | Biological characteristics and time of Icelandic scallop <i>Chlamys islandica</i> spawning on the Kanin bank and off the Bear Island-Spitsbergen                  |
| K:46 | N. Clare Eno                                 | Monitoring of temperature regimes to which the Pacific oyster <i>Crassostrea gigas</i> is subject in coastal inlets in relation to their reproductive success     |

**REFERENCE PAPERS: B:12, B:14, B:20, B:32, B:39, E:17, F:9, F:15 (poster), G:29, M:5**

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**L - BIOLOGICAL OCEANOGRAPHY COMMITTEE**

- L:1 Report of Activities, 1993
- L:2 Publications of interest to the Biological Oceanography Committee, 1993
- L:3  
Ref. C Report of the Study Group on Seabird/Fish Interactions 1993
- L:4 Report of the Benthos Ecology Working Group
- L:5  
Ref. C Report of the ICES/IOC Working Group on Harmful Algal Bloom Dynamics
- L:6  
Ref. E Report of the Working Group on Phytoplankton Ecology
- L:7 Report of the Study Group on Methods of Spatial and Temporal Integration — **Withdrawn**
- L:8 Report of the Study Group on Zooplankton Production
- L:9 Report on the Laboratory Workshop on *Calanus*, for 2-3 weeks in April/May 1994
- L:10 Report of the Workshop on Trans-Latitudinal Study of *Calanus finmarchicus* in the North Atlantic
- L:11  
Ref. C Joint Session of the ICES/IOC Working Group on Harmful Algal Bloom Dynamics and the Working Group on Shelf Seas Oceanography
- L:12 Report of the Working Group on Recruitment Processes
- L:13 Report of the ICES/IOC Workshop on Intercomparison of *in situ* Growth Rate Measurements (Dinoflagellates)
- L:14  
Ref. G,H,J Report of the Study Group on Fishbase
- L:15 Report of the Study Group on Gulf III Sampler Efficiency
- L:16 Maria H. Alfonso  
Ref. G, H *et al.* Study of the ichthyoplankton of commercial species off Portuguese continental coast
- L:17 Sabine Alshuth  
Ref. M and R. Grant Gilmore Salinity and temperature tolerance limits for larval spotted sea-trout *Cynoscion nebulosus* C. (Pisces: Sciaenidae)
- L:18 K. Sherman *et al.* Zooplankton prey field variability during collapse and recovery of pelagic fish in the Northeast Shelf Ecosystem
- L:19 K. Sherman Sustainability, biomass yields, and health of coastal ecosystems: An ecological perspective
- L:20 H. Müller  
Ref. H, J and B. Klenz Quantitative analysis of Rügen spring spawning herring larvae surveys with regard to the recruitment of the western Baltic and Division IIIa Stock

- L:21 E. Gaard Advection and seasonal development of the copepod *Calanus finmarchicus* on the Faroe Plateau
- 1403 X L:22 W. Melle Spawning and development of *Calanus* spp. in the Barents Sea  
Ref. D and H.R. Skjoldal
- L:23 J.M. MacGregor Onshore-offshore pattern and variability in distribution and abundance of bay anchovy, *Anchoa mitchilli*, eggs and larvae in Chesapeake Bay  
Ref. H and E.D. Houde
- L:24 Ø. Kaasa and Seasonal variations in the plankton community in Eyjafjörður, North Iceland  
K. Gudmundsson
- not received X L:25 P. Solemdal *et al.* Field investigations of the maternal effects in Arcto-Norwegian cod (*Gadus morhua* L.) on the eggs and early larvae in Lofoten during March–April 1994  
Ref. G
- L:26 P. Ouellet *et al.* Cod (*Gadus morhua*) spawning and vertical egg distribution in the northern Gulf of St. Lawrence  
Ref. G  
Poster
- L:27 H.J. Lindeboom *et al.* (Sudden) changes in the biota of the North Sea: Oceanic influences underestimated?  
Ref. C,E,G
- L:28 C. Veeschkens *et al.* Distribution of plankton parameters in the northeastern North Sea in relation to vertical physical structures (Campaigns ECOFRONT 88 and 94).  
Poster
- 404 X L:29 K.G. Foote Comparison of equal-area cylindrical and circular piston transducers
- 405 X L:30 K.G. Foote Performance of an acoustic sonde design
- L:31 A.I. Agatova *et al.* Biochemical monitoring of marine ecosystems  
Poster
- L:32 **Withdrawn**
- L:33 J.A. Lindley ICES Identification Leaflets for Plankton. Editors Report 1993/1994.  
Ref. Pub.
- L:34\* Report of the Study Group on Seabird/Fish Interactions September 1994

REFERENCE PAPERS: A:7, A:9, A:10, B:40, C:1, C:5, E:9, E:10, E:18, G:9, G:33, H:19, H:23, J:17, J:18, J:19, J:24, K:20 (poster), N:4

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M - ANACAT FISH COMMITTEE

- M:1 Report of Activities, 1993
- M:2 Publications of interest to the Anadromous and Catadromous Fish Committee, 1993
- M:3  
Ref. F Report of the Study Group on Interactions of Wild, Ranched (Enhanced), and Reared Salmon
- M:4 Report of the Study Group on Anadromous Trout
- M:5  
Ref.G,H,K Report of the Study Group on Identification Protocols for Finfish and Shellfish
- M:6 Report of the Workshop of Salmon Spawning Stock Targets in the North-East Atlantic
- M:7 K. Friedland  
and R.E. Haas Patterns of post-smolt growth and early maturation of Atlantic salmon (*Salmo salar*)
- M:8 Ari Saura  
Ref. J Stocking results of the cultivated rainbow trout (*Oncorhynchus mykiss*) smolt in the Gulf of Finland
- M:9 N. O'Maoileidigh  
*et al.* Exploitation of reared salmon released into the Burrishoole river system
- M:10 N. O'Maoileidigh  
*et al.* High seas and homewater exploitation of an Irish reared salmon stock
- M:11 E. Ikonen *et al.*  
Ref. J Results of a blindfold test on Baltic salmon (*Salmo salar* L.) scale reading
- M:12 E. Ikonen  
Ref. J **Withdrawn**
- M:13 L.P. Hansen *et al.* The incidence of farmed Atlantic salmon in the long-line fishery at Faroes and in Norwegian home waters
- M:14 S. Gudjonsson and  
H. Gudmundsson Development and testing of a new light gate fish counter in rivers
- M:15 **Withdrawn**
- M:16 G. Blanco *et al.*  
Ref. F Genetic variation and age at maturity in populations of Atlantic salmon of northern Spain
- M:17 L. Karlsson *et al.* Timing of the Baltic salmon run in the Gulf of Bothnia. Influence of environmental factors on annual variation.
- M:18 **Withdrawn**
- M:19 Ö. Karlström  
and P. Byström Estimates of the smolt run in the river Torne Älv 1987-1993
- M:20 T. Antonsson *et al.* Environmental continuity in fluctuation of fish stocks in the North Atlantic ocean; with reference to Atlantic salmon stocks
- M:21 J. Guillouët  
and F. Caron Indirect estimate of Atlantic salmon escapement in Quebec rivers

## M - ANACAT FISH COMMITTEE

- |                |                                    |   |
|----------------|------------------------------------|---|
| M:22           | P. Debowski                        | Homing of tagged sea ( <i>Salmo trutta</i> L.) smolts trout released into Polish rivers   |
| M:23           | J. Domagala and<br>H. S. Faryniarz | Number of Pyloric Caeca as Possible Marker of Trout ( <i>Salmo trutta m. trutta</i> L.) Stocks in Pomeranian Rivers                               |
| M:24           | A.V. Zubchenko                     | Salmon rivers of the Kola Peninsula. Their reproductive potential and Atlantic salmon stock state in the river Tuloma                             |
| M:25           | A.V. Zubchenko                     | Salmon rivers of the Kola Peninsula. Analysis of status and possible measures to manage population structure of Atlantic salmon in the Kola river |
| M:26           | D. Dunkley <i>et al.</i>           | <b>Withdrawn</b>  |
| M:27<br>Ref. F | I.A. Sanchez <i>et al.</i>         | Relationships between genetic variability and precocious maturity and smolting in Atlantic salmon   |
| M:28           |                                    | ICES Compilation and Microtag, Finclip and External Tag Releases in 1993  |

REFERENCE PAPERS: F:17, L:17, Assess:10, Assess:15, Assess:16, Env.:9

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N - MARINE MAMMALS COMMITTEE

- N:1 Report of Activities 1993
- N:2 Study Group on Seals and Small Cetaceans in European Seas  
Ref. E
- N:3 Publications of interest to the Marine Mammals Committee
- N:4 Finn O. Kapel Variation in the feeding of harp seals (*Phoca groenlandica*) in  
Ref. H, L the Southwest Greenland waters
- N:5 Finn O. Kapel A review of recoveries in Greenland of tagged or branded harp  
Ref. B, D and hooded seals  
Poster
- N:6 S. Northridge The use of a geographical information system in analysing and  
and T.D. Smith representing catch or sightings data
- N:7 F. Shahidi and Potential benefits and quality characteristics of carcass compo-  
J. Synowiecki nents of harp seal (*Phoca groenlandica*)
- N:8 G.B. Stensson Pup production and population growth of hooded seals  
(*Cystophora cristata*) Near Newfoundland, Canda
- N:9 B. Sjare and Comments on Incidental Catches of Seals in the Newfoundland  
Poster G.B. Stenson Gillnet Fishery
- N:10 A. Garcia-Castrillo Les mammifères marins du Nord et du Nord-Ouest de L'Es-  
*et al.* pagne en 1993
- N:11 M.B. Santos *et al.* Diets of small cetaceans stranded from the Scottish coast  
Poster
- N:12 K.T. Nilssen *et al.* Studies of food availability and diet of harp seals (*Phoca groen-*  
Ref. G, H *andica*) in the southeastern Barents Sea in February 1993
- N:13 **Withdrawn**
- N:14 T. Haug *et al.* Studies of minke whale (*Balaenoptera acutorostrata*) ecology in  
Ref.H,G,L *1. Rottungen* the Northeast Atlantic: Description of the 1993 scientific catch  
Rec. abs. operations and preliminary results from stomach analyses and  
resource surveys
- N:15 **Withdrawn**
- N:16 V. Hernández-García Stomach contents of two short-finned pilot whale (*Globicephala*  
*et al.* *macrorhynchus* Gray, 1846) (Cetacea, Delphinidae) off the  
Canary Islands: A preliminary note

REFERENCE PAPER: A:8

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MINI-SYMPIOSIUM ON FISH MIGRATION (MINI)

Mini:1	D.W. Kulka <i>et al.</i>	Changes in the winter distribution and migration patterns of northern cod ( <i>Gadus morhua</i> ) on the Newfoundland Labrador Shelf as determined from commercial fisheries data
Mini:2	D.P. Swain	Changes in the distribution of Atlantic cod ( <i>Gadus morhua</i> ) in the southern Gulf of St Lawrence: environmental change or change in preference?
Mini:3	S.J. Smith and F. Page	Interannual trends in the association between groundfish and hydrographic variables: implications for management
Mini:4	K. Drinkwater	Environmental changes in the Labrador Sea and their effect on fish stocks
Mini:5	N.L. Shackell <i>et al.</i>	Diel vertical migration of capelin ( <i>Mallotus villosus</i> ) and its effect on acoustic estimates of density
Mini:6	M. Castonguay <i>et al.</i>	Is there a role of ocean environment in American and European eel decline?
Mini:7	M. Healy <i>et al.</i>	Biophysical controls of salmon migration and production in the Northeast Pacific
Mini:8	M. Walsh <i>et al.</i>	Distribution and environment of the western mackerel stock north of Scotland in January 1994
1409 X Mini:9	M.T. Hafsteinsson and O.A. Misund	Mapping the migration pattern of schooling fish by use of multi-beam sonar during conventional acoustic surveys
Mini:10	M. Castonguay and D. Gilbert	Effects of tidal streams on migrating Atlantic mackerel, <i>Scomber scombrus</i>
Mini:11	J.D. Metcalfe <i>et al.</i>	The migratory behaviour of plaice in the North Sea as revealed by data storage tags.
410 X Mini:12	O.R. Godø <i>et al.</i>	The use of transplantation - tagging-experiments in studies of migratory diversity of cod off Norway
Mini:13	G.A. Rose <i>et al.</i>	Tracking cod migration on the NE Newfoundland shelf: 40 days at sea in 1992
Mini:14		<b>Withdrawn</b>
Mini:15 Poster	H. Gislason and P. Sparre	Some thoughts on the incorporation of areas and migrations in MSVPA
Mini:16	A.D. Rijnsdorp and M. Pastoors	A simulation model of the spatial dynamics of North Sea plaice ( <i>Pleuronectes platessa L.</i> ) based on tagging data
Mini:17	G.P. Arnold and B.H. Holford	A computer simulation model for predicting rates and scales of movement of demersal fish on the European continental shelf
Mini:18 Poster	B. Villamor and C. Porteiro	Distribution and seasonality of mackerel ( <i>Scomber scombrus</i> ) in the Cantabrian Sea and Galician waters (ICES Division VIIIc and sub-division IXa North)

## MINI-SYMPOSIUM ON FISH MIGRATION (MINI)

Mini:19 J.D. Metcalfe *et al.* The Lowestoft data storage tag used in studies of fish migration  
Poster

Mini:20 **Withdrawn**

Mini:21 J.S. Gunn *et al.* The development and use of archival tags for studying the migration, behaviour and physiology of southern bluefin tuna, with an assessment of the potential for transfer of the technology to groundfish research



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THEME SESSION ON MULTISPECIES INTERACTIONS OF IMPORTANCE TO THE  
GROUND FISH ABUNDANCE FLUCTUATIONS (P)

P:1	P.A. Livingston	Overview of multispecies interactions involving walleye pollock in the eastern Bering Sea and Gulf of Alaska
P:2	S.A. Pedersen	Multispecies interactions on the offshore West Greenland shrimp grounds
P:3	M.J. Fogarty and J.K. Brodziak	Multivariate time series analysis of fish community dynamics on Georges Bank
P:4	G.T. Waring	Spatial and temporal patterns in harbor seal entanglements in the Gulf of Maine sink gillnet fishery
P:5	E. Grunwald and F. Köster	Feeding habits of Atlantic cod in West-Greenland waters
P:6		<b>Withdrawn</b>
P:7	M. Shima <i>et al.</i>	A spatial model of marine mammal fishery interactions in the Gulf of Alaska, USA and comparisons to other ecosystems
P:8	G.Y. Conan	Can simple linear correlation analysis satisfactorily detect environmental or interspecific effects on fisheries landings in a chaotic oceanic universe?
P:9	I. Olaso <i>et al.</i>	Influence of anchovy and blue whiting in the feeding of northern Spain hake
P:10		<b>Withdrawn</b>
P:11	B.K. Mohn and W.D. Bowen	A Model of grey seal predation on 4VSW cod and its effects on the dynamics and potential yield of cod
P:12	O.P. Pedersen	A multispecies model of a fjord system
P:13		<b>Withdrawn</b>
P:14	P.D. Spencer and Jeremy S. Collie	Modeling seasonally predation in marine environments

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THEME SESSION ON IMPACT OF  
THE 1993 MAJOR INFLOW TO THE BALTIC SEA (Q)

- |                      |                                 |   |
|----------------------|---------------------------------|---|
| Q:1                  | W. Matthäus and<br>H. Schinke   | Mean atmosphere circulation patterns associated with major<br>Baltic inflows  |
| Q:2                  | W. Fennel and<br>T. Seifert     | Dynamics of the transition area between the Baltic Sea and the<br>North Sea   |
| Q:3                  | W. Matthäus <i>et al.</i>       | Effects of the inflows of salt-rich water during 1993 and early<br>1994 in the Central Baltic Sea                     |
| Q:4<br>Ref. C.       | H. Westerberg                   | The transport of cod eggs and larvae through Öresund  |
| Q:5                  | B. Klenz                        | Distribution of ichtyplankton in the Western Baltic regarding cod<br>recruitment                                      |
| Q:6                  |                                 | <b>Withdrawn</b>  |
| Q:7<br><b>Poster</b> | B. Hekansson and<br>B. Carlsson | Exchange of salt and water volumes taking place between the<br>North Sea and the Baltic Sea through the Sound in 1993 |
| Q:8<br><b>Poster</b> | H. Dahlin and<br>B. Broman      | On the importance of smaller inflows succeeding the major<br>inflow of January 1993 to the Baltic Sea                 |
| Q:9<br><b>Poster</b> | A. Lehmann                      | The major Baltic inflow 1993 - A numerical model simulation   |

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THEME SESSION ON  
PELAGIC FISH AND PLANKTON INTERACTIONS IN MARINE ECOSYSTEMS (R)

- R:1 J. Luo and B. Brandt Virtual reality of planktivores: Are fish really size selective?
- R:2 W. Silvert Bloom dynamics in marine food chain models with migration
- R:3 **Withdrawn**
- R:4 R.J.P Meschishnick Ingestion of microbial prey by fish larvae  
**Poster** *et al.*
- R:5 V. Puvanendran Differential response of longitudinally separate populations of  
**Poster** and J.A. Brown cod larvae (*Gadus morhua*) to light levels
- R:6 V. Gotceitas *et al.* An investigation of the match/mismatch hypothesis with Atlantic  
**Poster** cod larvae
- R:7 Ø. Fiksen *et al.* Spatial patterns of capelin habitat profitability in the Barents Sea
- R:8 ~~(Withdrawn)~~ H. Gjørseter *et al.* Interactions between the capelin stock and the zooplankton in the Barents Sea ecosystem
- 1412 X R:9 W. Melle *et al.* Feeding and migration of Norwegian spring spawning herring in the Norwegian Sea
- R:10 V. Wespestad *et al.* Juvenile sockeye salmon (*Oncorhynchus nerka*) predation on Bering Sea red king crab (*Paralithodes camtschatica*) larvae as a cause of recruitment variation
- R:11 **Withdrawn**
- R:12 G.Y. Conan *et al.* Is match/mismatch the universal ill fated mechanism de-regulating stock/recruitment models? Snow crab (*Chionoecetes opilio*) prove that some species may precisely sense optimal plankton production for a timely release of their larvae.

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THEME SESSION ON LARGE-SCALE CIRCULATION CHANGES IN THE NORTH  
ATLANTIC ON TIME SCALES OF CLIMATIC CHANGES (S)

S:1

Withdrawn

1414 X S:2 G. Ottersen *et al.* Statistical modelling of temperature variability in the Barents Sea

S:3 A. Lavin *et al.* Decadal time changes in the circulation at 24°N in the Atlantic Ocean

S:4 B. Hansen and R. Kristiansen Long-term changes in the Atlantic water flowing past the Faroe Islands

S:5 B. Hansen *et al.* Bottom temperature between Iceland and Shetland 1906-1962 measured in telegraph cables

S:6 S. Levitus *et al.* Interannual variability of upper ocean thermal structure of the North Atlantic

S:7 K.P. Koltermann and K. Warrach Large scale changes in the North Atlantic circulation on decadal time-scales at intermediate depths

S:8 S-Å Malmberg *et al.* Long time series in Icelandic waters in relation to physical variability in the northern North Atlantic

S:9 I.M. Yashayaev On the year-to-year variability of Newfoundland basin hydrological fields, from 12-years field experiments (1980-1992)

S:10 S.S. Lappo *et al.* Long-period changes in the intermediate and deep water circulation in the North Atlantic

S:11 U.V. Paul and A. Sy Differences of properties and circulation in the North Atlantic from two long hydrographic sections between Greenland and Ireland

**Reference  
paper:**

L:10 Report of the Workshop on Trans-Latitudinal Study of *Calanus finmarchicus* in the North Atlantic, 6-8 April 1994, Oslo, Norway

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**THEME SESSION ON IMPROVING THE LINK BETWEEN FISHERIES SCIENCE AND MANAGEMENT: BIOLOGICAL, SOCIAL AND ECONOMIC CONSIDERATIONS (T)**

T:1	J.F. Caddy	Checks and balances in the management of marine fish stocks: Organizational requirements for a limit reference point approach
T:2	Gérard Biais	A decade of fisheries resources management by TACs in European Community waters from 1983 to 1992
T:3		<b>Withdrawn</b>
T:4	G. Palsson and A. Helgason	Figuring fish and measuring men: The quota system in the Icelandic cod fishery
T:5		<b>Withdrawn</b>
T:6	R. Townsend	Comprehensive property rights: Fishery trusts
T:7 <b>Poster</b>	E. Thunberg and Thomas Helser	An age-structured bioeconomic model to evaluate changes in mortality in the United States Atlantic silver hake fishery
T:8 <b>Poster</b>	L. Richards and J. Fargo	Comparing data collected by observers and skippers in the British Columbia trawl fishery
T:9 <b>Poster</b>	Per J. Sparre	The data requirements for basic fisheries bio-economics
T:10	P.M. Clay and J.R. McGoodwin	Utilizing social sciences in fisheries management
T:11	J.P. Hillis and M O'Morchoe	Restoring a depleted fishery by different methods including mesh control, decommissioning and individual quota; a bio-socio-economic comparison
T:12 <b>Poster</b>	A.M. Powers	The work of culture and the culture of work: some considerations for decision making in the fisheries
T:13		<b>Withdrawn</b>
1415 X T:14	A.K. Veim <i>et al.</i> <i>K. Summoma</i>	Bycatch of juvenile fish in the shrimp fishery - management based on bioeconomic criteria
T:15	B.J. McCay	Individual transferable quotas in clams and fish: a comparative analysis
T:16	A.B. Hollowed <i>et al.</i>	An examination of marine mammal and walleye pollock fisheries interactions in the Gulf of Alaska using a stochastic bioeconomic simulation model
T:17	W. Dubinsky	Agency, structure and the interactive dimension of fisheries management: the regulated vs. the regulator
T:18	G.G. Thompson	A general diffusion model of stock-recruitment systems with stochastic mortality
T:19 <b>Poster</b>	G.M. Jansson <i>et al.</i>	A bio-economical model for north sea flatfish

**THEME SESSION ON IMPROVING THE LINK BETWEEN FISHERIES SCIENCE AND  
MANAGEMENT: BIOLOGICAL, SOCIAL AND ECONOMIC CONSIDERATIONS (T)**

T:20	A. Maurstad and J.H. Sundet	Improving the link between science and management: drawing upon local fishers' experience
T:21	D. Symes and K. Crean	Social objectives, social research and the re-calibration of management policies in fisheries: the case of the European Union
T:22	J.M. Ward	A description and evaluation of the individual transferable quota (ITQ) fisheries management program for the south Atlantic-wreckfish ( <i>Polyprion americanus</i> ) fishery
T:23		<b>Withdrawn</b>
T:24	K. Weber	Analysis of decision-making processes in the ivoirian maritime fisheries sector
T:25 <b>Poster</b>	I.M. Kaplan and C. Boyer	Ecological and policy trends related to the North Atlantic conch (BUSYCON) fishery
T:26	A.I.L. Payne and K.L. Cochrane	Managing fisheries in a changing society with a well-developed science base
T:27	C. Creed <i>et al.</i>	ITQ;s community and construction: The case of the Scotia-Fundy inshore mobile gear groundfish fishery
T:28	J.F. Kearney	Fishers' adaptive strategies, ethnoscience, and local level decision-making: anthropological perspectives on an integrated approach to fisheries science and management
T:29	G. L. Brander and D. L. Burke	Rights-based vs. competitive fishing of sea scallops in Nova Scotia
T:30	D.D. Hoggarth	Management strategies and their sensitivity to parameter uncertainties in a model of artisanal river fisheries
T:31	J. Mørkøre	When long term objectives and short term interests collide
T:32		<b>Withdrawn</b>
T:33	R.O. Rasmussen	Types of social importance of fisheries
T:34	E. Vestergaard	Obstacles within fisheries
T:35	L. Burke <i>et al.</i>	The Scotia-Fundy inshore dragger fleet ITQ program, background, implementation, and results to date
T:36	E. Hoffmann	A marine ecosystem and an economic and ethnological analysis of the consequences of utilizing its biological resources
T:37 <b>Poster</b>	M. Woodrow	Community adaption to fisheries management practices in Newfoundland
T:38	E.M. Smith	The nature of nature: conflict and consensus in fisheries management
T:39		<b>Withdrawn</b>

**THEME SESSION ON IMPROVING THE LINK BETWEEN FISHERIES SCIENCE AND  
MANAGEMENT: BIOLOGICAL, SOCIAL AND ECONOMIC CONSIDERATIONS (T)**

T:40 <b>Poster</b>	R.L. Stephenson <i>et al.</i>	The Scale(s) of management: An impediment of linking biological, social and economic consideration in management?
T:41	D.E. Lane and R.L. Stephenson	Fisheries Management Science the framework to link biological, economic and social objectives in fisheries management
T:42	J. Rice and L. Richards	Partnership and roles. The Pacific Canadian rockfish fishery
T:43	G. Stefansson <i>et al.</i>	Utilization of the Icelandic cod stock in a multispecies context
T:44		<b>Withdrawn</b>
T:45		<b>Withdrawn</b>
T:46	J.S. Loch and J.B. Jones	An improved link between industry, management and science: a case history - the southern Gulf of St. Lawrence snow crab fishery
T:47 <b>Poster</b>	S.E. Squires	Labour recruitment and economic realities in the Newfoundland fishing industry
T:48	J.-J. Maguire <i>et al.</i>	Fisheries management is people management: contributions of social science to marine biology and fisheries management
T:49	P. Rodgers	The interface of economics with fisheries science: understanding each others potential contribution to fisheries management
T:50		<b>Withdrawn</b>
T:51	J. Catanzano and B. Mesnil	Economics and biology science used in fisheries research or when social and natural sciences try to depict together their object of research
T:52	P. Young and J. Wallace	An evaluation of the balance of power between government, industry, and science in managing Australia's federal fisheries (Setting the fox to guard the henhouse)
T:53	M. Gardner	Input controls vs. rights-based fishing: case studies in meeting resource management objectives
T:54	R. Shotton	Attitudes to risk relative to decisions regarding levels of fish harvesting
T:55	R. Hannesson	Rights-based fishing: the role of property rights in fisheries management
T:56		<b>Withdrawn</b>
T:57 <b>Poster</b>	M. Vecchione and B.C. Collette	Fisheries, systematics and marine biodiversity
T:58	M. Sinclair <i>et al.</i>	A report card on quota management: the Scotia-Fundy groundfish example

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## JOINT SESSION ON QUALITY ASSURANCE OF MARINE MEASUREMENTS

- |           |                              |  |
|-----------|------------------------------|--|
| (C+E+L):1 | L.J. Rickards                | BODC Quality assurance procedures for physical oceanographic data                              |
| (C+E+L):2 | S. Carlberg                  | Quality assurance - What it is and what it is not  |
| (C+E+L):3 | L. Hernroth                  | Quality assurance - a new fashion? Maybe, but certainly a tool to improve the quality of data. |
| (C+E+L):4 | D.E. Wells <i>et al.</i>     | Quality assurance of marine measurement QUASIMEME: the first year of an holistic QA project    |
| (C+E+L):5 | P.A. Gurbutt and K.J. Medler | Data quality is more than an intercomparison   |
| (C+E+L):6 | H.D. Dooley                  | When data are good they are very very good, but when they are bad they are horrid.             |

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JOINT SESSION ON OCCURRENCE AND EFFECTS OF CONTAMINANTS IN MARINE MAMMALS

- |                          |                                  |   |
|--------------------------|----------------------------------|---|
| (E+N):1<br><b>Poster</b> | J. Hellou and<br>G. Stenson      | Fluorescing compounds PAH, PCB and biogenic hydrocarbons in muscle, liver, kidney and blubber of marine mammals   |
| (E+N):2                  | M.E. Dahlheim                    | Effects of the Exxon Valdez oil spill on Cetaceans  |
| (E+N):3                  | J. Utne Skaare <i>et al.</i>     | Organochlorine contaminants in marine mammals from the Norwegian Arctic   |
| (E+N):4                  | O. Espeland <i>et al.</i>        | Seasonal variation in organochlorine concentrations in harp seal ( <i>Phoca groenlandica</i> ) from the Barents Sea region  |
| (E+N):5                  | L. Kleivane <i>et al.</i>        | Organochlorines in harbour porpoise ( <i>Phocoena phocoena</i> ) from Scandinavian waters   |
| (E+N):6                  | B. Munro Jensen<br><i>et al.</i> | Biomarkers in blood to evaluate biological effects of organochlorines in free-living grey seal pups   |
| (E+N):7<br><b>Poster</b> | B. Kløven <i>et al.</i>          | Body burdens of organochlorines in grey seal pups   |
| (E+N):8<br><b>Poster</b> | O. Haugen <i>et al.</i>          | Vitamin A plasma-status and organochlorine concentration in blood of free-living grey seal pups   |
| (E+N):9                  | R.J. Law and<br>C.R. Allchin     | Organochlorines in the blubber of bottlenose dolphins ( <i>Tursiops truncatus</i> ) and harbour porpoises ( <i>Phocoena phocoena</i> ) from Cardigan Bay (Wales) and the Moray Firth (Scotland) |
| (E+N):10                 | D.E. Wells and<br>C. MCKenzie    | Techniques for pattern recognition of organochlorine residues in sea mammals from Scottish coastal waters   |
| (E+N):11                 | W. T. Stobo                      | Distribution and trends of organochlorides in Canadian seals: the toxicological significance  |

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JOINT SESSION ON ESTIMATING ABUNDANCE  
FROM FISHING SURVEYS AND ACOUSTIC MEASUREMENTS

- 1416X (B+D+G+H):1 I. Røttingen *et al.* Acoustic abundance estimation of wintering Norwegian spring spawning herring, with emphasis of methodological aspects
- 417X (B+D+G+H):2 K.G. Foote Extinction cross section of herring: New measurements and speculation
- (B+D+G+H):3 S.J. Smith Evaluating statistical properties of trawl survey estimates of mean abundance
- (B+D+G+H):4 G.Y. Conan and F. Maynou Mapping and assessment of fisheries resources with coastal and depth constraints, the case study of snow crab in the Bay of Islands fjord (Newfoundland)
- (B+D+G+H):5 E.J. Simmonds Age structure and estimated mortality as an error indicator for acoustic surveys with information on numbers at age

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**ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT**

ACFM:1\* Agenda, ACFM Consultations at the 1994 Annual Science Conference

**ASSESSMENT WORKING GROUP REPORTS - 1994**

- Assess:1 Report of the Working Group on Multispecies Assessment of Baltic Fish
- 1363 X Assess:2 Report of the Arctic Fisheries Working Group
- 3018 Assess:3 Report of the Working Group on the Assessment of Southern Shelf Demersal Stocks
- 1364 X Assess:4 Report of the Blue Whiting Assessment Working Group
- Assess:5 Report of the Joint ICES/NAFO Working Group on Harp and Hooded Seals
- Assess:6 Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
- Assess:7 Working Group on the Assessment of Norway Pout and Sandeel
- 1365 X Assess:8 Report of the Atlanto-Scandian Herring and Capelin Working Group
- Assess:9 Report of the Multispecies Assessment Working Group
- Assess:10 Report of the Sub-Group of the Baltic Salmon and Trout Assessment Working Group
- Ref J + M
- Assess:11 Report of the Working Group on Long-Term Management Measures
- Assess:12 Report of the Working Group on *Nephrops* and *Pandalus* Stocks
- Assess:13 Report of the Herring Assessment Working Group for the Area South of 62°N
- Assess:14 Report of the Study Group on the North Sea "Plaice Box"
- 1366 X Assess:15 Report of the Baltic Salmon and Trout Assessment Working Group
- Ref. M
- 1367 X Assess:16 Report of the North Atlantic Salmon Working Group
- Ref. M
- Assess:17 Report of the Working Group on the Assessment of Demersal Stocks in the Baltic
- Assess:18 Report of the Working Group on the Assessment of Pelagic Stocks in the Baltic
- Assess:19 Report of the North-Western Working Group

ACME - ADVISORY COMMITTEE ON THE MARINE ENVIRONMENT

Agenda, ACME Consultations at the 1994 Annual Science Conference

ACME:1\*

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Env:1  
Ref. C+E

Marine Chemistry Working Group

Env:2  
Ref.E

Joint Session of the Working Group on Marine Sediments in Relation to Pollution and the Working Group on Biological Effects of Contaminants

Env:3  
Ref.E

Working Group on Biological Effects of Contaminants

Env:4  
Ref.E

Working Group on Environmental Assessment and Monitoring Strategies

Env:5  
Ref.E

Working Group on Marine Sediments in Relation to Pollution

Env:6  
Ref.D+E

Working Group on Statistical Aspects of Environmental Monitoring

Env:7  
Ref.F

Working Group on Introductions and Transfers of Marine Organisms

Env:8  
Ref. E+D

Sub-Group on Temporal Trend Monitoring Programmes for Contaminants in Biota

Env:9  
Ref. E,F+M,J

Report of the Study Group on Occurrence of M-74 in Fish Stocks

Env.10  
Ref. C+E

Report of the Steering Group on Integrated Study of Processes of Pollutant Transfer and Effects on Biota — **Withdrawn**

Env. 11

ICES 1994 Code of Practice on Introductions and Transfers of Marine Organisms

**JOINT MEETING ACFM/ACME**

Assess/Env:1 Working Group on Ecosystem Effects of Fishing Activities  
Ref. G