

Contributions to be presented at the Statutory Meeting.

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Gen: General Assembly Reports and

Papers of General Interest

- Gen:1 Observers' Reports presented to the General Assembly.
- Gen:2 "Progress Report on some important activities of the Council or where the Council is engaged".
- Gen:3 FAO "Report by the FAO Department of Fisheries to the 59th Statutory Meeting of ICES".
- Gen:4 "Extracts of Proceedings of the ICNAF Research and Statistics Committee, 1971".
- Gen:5 "Election of Committee Chairmen at the 59th Statutory Meeting".

Del - DELEGATES MEETINGS

- Del:1* "Audited Accounts for 1/11-1969 to 31/10-1970".
- Del:2* "Preliminary Report of the Administration for 1/11-1970 to 31/10-1971".
- Del:3* "Estimated Accounts for the Financial Year 1970/71".
- Del:4* "Budget for the Financial Year 1971/72".
- Del:5* "Forecast Budget for the Financial Year 1972/73".
- Del:6* "Elections to be undertaken by the Council at the 59th Statutory Meeting".
- Del:7* Administrative Reports.
- Del:8* "International Investigations of the Pollution of the North Sea and the Baltic".

* for Delegates only.

Li - LIAISON COMMITTEE

Li:1	Secretary of Liaison Committee and A R Margetts	"Note on the History of 'The Annual Review of Mesh-Sizes and Topside Chafers in Use in the Convention Area'" and "Comment on the Liaison Committee 'Annual Review of Mesh-Sizes and Chafers in Use'".
Li:2		Liaison Committee Agenda.

Fi - FINANCE COMMITTEE

Ed - EDITORIAL COMMITTEE

Ed:1	General Secretary	"Review of the Publications".
Ed:2		"Sales of ICES' Publications for the last three years".
Ed:3	General Secretary	"Journal du Conseil: new lay-out and increased subscription price".
Ed:4	General Secretary	"Editorial policy and possible changes in the contents of 'Annales Biologiques'".

Contributions from other Committees with
Reference to the Editorial Committee

L:4 Plankton Cttee.	J H Fraser	"Plankton Identification Sheets. Editor's Report 1970-1971".
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A - CONSULTATIVE COMMITTEE

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| A:1* | | Agenda for the Consultative Committee. |
| A:2* | | "Proposal for a Symposium on the Causes of Recent Changes of North Sea Fisheries". |
| A:3 | General Secretary | "Division of tasks between the Fish Committees". |

* for the relevant Committee only.

B - GEAR AND BEHAVIOUR COMMITTEE

- B:1 "Administrative Report".
- B:2 S J de Groot and J Apeldoorn "Some experiments on the influence of beam-trawling on the bottom fauna".
- B:3 "Report of the Gear and Behaviour Methodology Working Group".
- B:4 H Bohl "Selection of cod by polyamide trawl codends in ICNAF Division 4Vn".
- B:5 R G Houghton, T Williams and R V Blacker "Some effects of double beam trawling".
- B:6 D J Symonds and A C Simpson "Preliminary report on a specially designed Nephrops trawl for releasing undersized roundfish".
Ref.Shellfish and Benthos Committee
- B:7 V A Teplitsky "A method of quantitative evaluation of the effect of the scientific-technological progress upon the development of the marine fisheries".
- B:8 A R Margetts and J P Bridger "The effect of a beam trawl on the sea bed".
- B:9 A I Treschev "Fishing unit measures".
- B:10 J C Medcof and J F Caddy "Underwater observations on performance of clam dredges of three types".
- B:11 J F de Veen and W F Rodenburg "Discarding in the Dutch sole fisheries in 1969 and 1970".
Ref.Demersal Fish (N) Cttee.
- B:12 A D Hawkins and D N MacLennan "Measurement of gear and ship noise".
- B:13 J J Foster "Data collecting methods and computer application in gear and fish behaviour work".
- B:14 R Boddeke and J F de Veen "Results of tagging experiments with the by-catch of plaice of a Dutch shrimpboat".
Ref.Shellfish and Benthos Committee
- B:15 J Blindheim and O Nakken "Abundance estimation of the spawning Lofoten cod in 1971".
Ref.Demersal Fish(N) Cttee.
- B:16 J Blindheim and P Eide "The use of a digital computer in fisheries research".
Ref.Hydrography Committee
- B:17 Kjell Olsen "Position of orientation of cod in Lofoten, measured on photographs".

Gear and Behaviour Cttee (ctd)

B:18

C S Wardle

"An assessment of the role of lactic acid as a limit to fish performance during capture".

Contributions from other Committees with Reference
to the Gear and Behaviour Committee

D:6

FAO

"Interim Report on the International Standard Statistical Classification of Fishing Gear".

C - HYDROGRAPHY COMMITTEE

C:1	A Zsolnay	"Diagenesis of the function of redox conditions in nature. A comparative survey of certain organic compounds in anoxic and oxic Baltic Basin sediments".
C:2	C R Mann and A R Coote	"Silicates and their relation to the water masses of the Western Atlantic Ocean".
C:3	H D Dooley	"On the use of a current meter mooring as a drift marker".
C:4	H W Hill	"A report on the UK-German-Dutch - Belgian Pilot Ocean Data Station Network for the North Sea".
C:5*		"WMO Technical Conference on the Means of Acquisition and Communication of Ocean Data".
C:6	H W Hill	"Hydrographic observations at Rockall during April/May 1969".
C:7	A D Kirichek	"Water circulation in the north-eastern part of the Tropical Atlantic".
C:8	J W Ramster	"A long-term current meter station in Liverpool Bay".
C:9	R Schemminda, S Schulz and D Nehring	"Preliminary results of the first cruise of GDR R/V 'Alexander von Humboldt' to central Atlantic waters in 1970".
C:10 Ref. Plankton Committee	D Nehring, H J Brosin <u>et al.</u>	"Review on recent Baltic research by the GDR Institute for Marine Research in Warnemünde".
C:11	Jens Smed	"Report on the 5th Session of the IOC Working Group on International Oceanographic Data Exchange".
C:12 Ref.: Pelagic (N), Demersal (N) and Plankton Committees	Jens Smed	"Monthly charts of temperature and salinity in the North Sea for the period of the ICES Young Herring Survey 1971".
C:13	Jens Smed	"Activities of the ICES Service Hydrographique 1970/71".
C:14	Jens Smed	"Provisional programme of work for Service Hydrographique 1971/72".
C:15	Jens Smed	"Report on the 3rd Session of the IOC Working Committee for IGOS, and on the Committee's 3rd joint Session with the WMO EC Panel on Meteorological Aspects of Ocean Affairs".

* for the relevant
Committee only.

Hydrography Committee (ctd)

C:16 Ref.: Pelagic (N), Demersal (N) and Plankton Cttees.	Jens Smed	Monthly synoptic charts of bottom temperature and salinity in the North Sea: a trial for the months May-December, 1970".
C:17 Ref.: Pelagic (N), Demersal (N) and Plankton Cttees.	Jens Smed	"Monthly synoptic charts of temperature and salinity at 10 m depth and near bottom in Skagerrak + Kattegat".
C:18 Ref.: Plankton Committee	Jens Smed and Poula Holm	"Sample pages of 'Annual Report on Oceanographic Cruises and Data Stations in 1970'".
C:19	Jens Smed	"Report on the 1st Session of the WMO CMM Working Group on Requirements for Marine Meteorological Services".
C:20*		"Work in 1970/71 on inventories, data lists and analysis of observations from Ocean Weather Stations A, I, J, K and M".
C:21	J W Ramster and G W Lennon	"On the need for a systematic comparison of techniques for determining residual drift".
C:22	H W Hill and J W Horwood	"A computer simulation of surface drifter returns".
C:23	J W Ramster	"Preliminary report of the Working Group on Permanent Moored Current Meter Stations in the North Sea".
C:24	Trygve Gytre	"An ultrasonic current meter".
C:25	I Middtun	"Long-term observation series on surface temperature and salinity in Norwegian coastal waters".
C:26	Jyrki Hari	"Current measurement by a telemetering system in the Helsinki sea area".
C:27	H W Hill and M J Paramore	"An analysis of long-term trends in temperature and salinity at four English lightvessels".
C:28	Erkki Palosuo	"Water exchange and the rate of cooling in the Gulf of Bothnia".
C:29	A Voipio and P Melkki	"Variations of the vertical stability in the Northern Baltic".
C:30	B Kullenberg	"A formula for the density of sea-water".
C:31*	D A Greenberg	"Archival of data from multiple probe recorders. A Canadian proposal".

* for the relevant Committee only.

Hydrography Committee (ctd)

C:32	L Otto	"Report on standardisation of base periods for temperature and salinity anomalies".
C:33	R Ljøen	"On the temperature variation in the bottom water of the northern North Sea".
C:34	General Secretary	"Polar Sea-Ice Research Project".
C:35	W Lenz	"New atlases of temperature, salinity and density of the Baltic Sea".
C:36	G Dietrich	"Overflow' 73 - Greenland-Scotland Ridge. Some scientific problems and methods for their solution".
C:37	J Meincke	"Results from recent investigations in the Greenland-Scotland overflow area".
C:38 Ref.: Plankton Committee	F Vegter	"Nutrient intrusion by the river Rhine into Dutch coastal waters".
C:39 Ref.: Plankton Committee	A J van Bennekom	"The silicon cycle in the southern North Sea".
C:40	K van der Veen	"Some preliminary results of current measurements of the Netherlands station of ICES North Sea Pilot Current Meter Network".
C:41	M P Visser	"Some features of the oceanographic conditions near Texel".
C:42	O H Sælen	"Introduction to the Hydrography chapter of 'Annales Biologiques', Vol.27 (for 1970)".
C:43	F Koroleff	"On the determination of reactive silicate in natural waters".
C:44	F Koroleff	"On the determination of lignin sulfonates in natural waters".

Contributions from other Committees with Reference

to the Hydrography Committee

B:16 Gear and Behaviour Committee	J Blindheim and P Eide	"The use of a digital computer in fisheries research".
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Hydrography Cttee - Ref.Papers (ctd)

E:7
Fisheries Improvement
Committee

A Preston,
D F Jefferies,
J W R Dutton,
B R Harvey and
A K Steele

"British Isles coastal waters:
the concentrations of selected
heavy metals in sea water, sus-
pended matter and biological
indicators - a pilot study".

E:8
Fisheries Improvement
Committee

K W Wilson and
P M Connor

"The use of a continuous flow
apparatus in the study of longer-
term toxicity of heavy metals".

G:4
Demersal Fish (S)
Committee

Withdrawn

H:31
Pelagic Fish (N)
Committee

"Report on joint Soviet-Icelandic
investigations into the distrib-
ution and availability of pelagic
fish in relation to oceanographic
conditions in the Norwegian and
Iceland Seas in May-June 1971".

L:15
Plankton Committee

J C de Kroon
and W W C Gieskes

"Studies of primary productivity
and of particle size spectra in
the southern North Sea".

L:16
Plankton Committee

S H Fonselius

"On primary production in the
Baltic".

H:32
Pelagic Fish (N)
Committee

"Preliminary Report of the Inter-
national O-Group Fish Survey in
the Barents Sea and adjacent
waters in August-September 1971".

D - STATISTICS COMMITTEE

D:1		"Administrative Report".
D:2	The Statistician	"Progress Report".
D:3		"Advance Release of Tables 1-5 of 'Bulletin Statistique', Volume 55, 1970".
Ref.: Pelagic Fish (S) and (N) and Demersal Fish (S) and (N) Committees		
D:4	The Statistician	"Suggestions for changes in coverage and lay-out of Statistical News Letters 'Demersal Species'".
Ref.: Demersal Fish (S) and (N) Cttees.		
D:5	The Statistician	"Review of Table 5 'Invertebrates' in Bulletin Statistique".
Ref.: Shellfish and Benthos Committee		
D:6	FAO	"Interim Report on the International Standard Statistical Classification of Fishing Gear".
Ref.: Gear and Behaviour Committee		
D:7*	FAO	"Report on the STATlant Programme 1971".
D:8	FAO	"Conversion factors: North Atlantic species".
D:9*	FAO	"Northwest and Northeast Atlantic: Classification of Aquatic Animals and Plants for Statistical Purposes".
D:10*	FAO	"Notes for the Completion of Forms STATlant 27A and 27B - Northeast Atlantic Area: Catch/Effort".
D:11*	FAO	"Prospectus for the Seventh Session of CWP".
D:12	The Statistician	"Subdivision of ICES' statistical area".
D:13*	FAO	"North Atlantic Fishing Vessels, 1969".
D:14	General Secretary	"Collaboration between biologists, technologists and economists".

Contributions from other Committees with Reference to the Statistics Committee

H:14 Pelagic Fish (N) Committee	A C Burd	"The area reportage of herring statistics".
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* for the relevant Committee only.

E - FISHERIES IMPROVEMENT COMMITTEE

E:1		"Administrative Report".
E:2	H Mann	"Toxicity of proteolytic enzymes as additives to washing compounds".
E:3		"Pollution of the North Sea - Report on an ad hoc Meeting held at Lowestoft 25-26 March 1971".
E:4	B I Dybern	"Report of the FAO Technical Conference on Marine Pollution and its Effects on Living Resources and Fishing, Rome, 9-18 December 1970".
E:5	E Halme	"Zinc and the etiology of cancer".
E:6	J Wierzchowski	"Investigations on traces of mercury compounds in fish and fish products".
E:7	A Preston, D F Jeffories, J W R Dutton, B R Harvey and A K Steele	"British Isles coastal waters: the concentrations of selected heavy metals in sea water, suspended matter and biological indicators - a pilot study".
E:8	K W Wilson and P M Connor	"The use of a continuous flow apparatus in the study of longer-term toxicity of heavy metals".
E:9	B Braaten, E Egidius, Møllerud and P. Solemdal	"The influence of byproducts from vinylchloride production on fertilization, development and larval survival on plaice, cod and herring eggs".
E:10	B Braaten and E Egidius Møllerud	"Accumulation and disposal of some byproducts from vinylchloride production in cod liver".
E:11	B Braaten and E Egidius Møllerud	"Acute toxicity of some byproducts from vinylchloride production to saithe (<u>Pollachius virens</u>)".
E:12	R G J Shelton	"Two recent problems in oil pollution research".
E:13	J E Portmann	"The levels of certain metals in fish from coastal waters around England and Wales".
E:14	R G J Shelton and M S Rolfe	"The effects of disposing china clay wastes off the Cornish coast".
E:15*	IMCO	"UN Conference on Human Environment - Agenda, Item III(a)(i) - Identification and control of pollutants emanating from ships, vessels and other equipment operating in the marine environment".

* for the relevant
Committee only

Fisheries Improvement Committee (ctd)

E:16 Ref. Demersal Fish (N) Cttee.	R G Kirk	"Nutritional deficiencies of frozen and freeze-dried <u>Lambricillus vivalis</u> as a food for young plaice (<u>Pleuronectes platessa</u> L.)".
E:17*		"Draft Report. Working Group on the Introduction of Non-Indigenous Marine Organisms". (and Supplement).
E:18 Ref. ICES/SCOR Meeting	G Oko/otowicz	"Preliminary investigations to determine the biological indicators of sea water pollution by diatoms - Bacillariophyceae".
E:19 Ref. ICES/SCOR Meeting	L Zmudziński	"Research on marine pollution in Poland".
E:20 Ref. ICES/SCOR Meeting	M Maciejowska and E Rakowska	"Note on research of microbial degradation of oils in the marine environment".
E:21	R Anttila and M Michelsson	"City of Helsinki fishery investigations".
E:22	J K Miettinen	"On the cadmium in the Finnish coastal waters".
E:23	V Miettinen	"Mercury pollution in the Finnish coastal waters".
E:24	G R Harvey, V T Bowen, R H Backus and G D Grice	"Chlorinated hydrocarbons in open-ocean Atlantic organisms".
E:25		"International Study of Pollution of the North Sea and its Effects on Living Resources and their Exploitation. - Report of an <u>ad hoc Meeting held on 2 June 1971 at Charlottenlund Slot</u> ".
E:25 Supplement		"Questionnaire to determine sources of input to North Sea".
E:26 Ref. Demersal Fish (N) Committee	B R Howell	"Rearing the larvae of the lemon sole, <u>Microstomus kitt</u> Walbaum, on cultured foods".
E:27 Ref. Shellfish and Benthos and Plankton Committees	P A Ayres	"Results of the 1971 monitoring programme for mussel toxicity on the NE coast of Britain".
E:28		Withdrawn.
E:29	P Bratland and P Solemdal	"Selective breeding of marine fish. I. Automatized feeding of pelagic fish larvae under controlled environmental conditions".

* for the relevant
Committee only.

Fisheries Improvement Committee (ctd)

E:30		Withdrawn.
E:31 Ref.Special Meeting	G Otterlind, S Jensen and M Olsson	"DDT and PCB in Baltic fish".
E:32	G Berge, L Føyn, R Ljøen and K H Palmork	"Experimental dumping of waste ferrosulphate (copperas) into the Skagerrak".
E:33	G Berge and K H Palmork	"Mercury in marine fish. A preliminary report".
E:34	E G Bligh and F A J Armstrong	"Marine mercury pollution in Canada".
E:35		"Pollution of the North Sea. - Report of a Meeting of Analysts and Biologists held at Charlottenlund, 17-18 August 1971".
E:36	Jan Boëtius	"Mercury content in Danish marine fishes".

Contributions from other Committees with Reference
to the Fisheries Improvement Committee

K:10 Shellfish and Benthos Committee	M M Helm and Mrs F M Smith	"Observations on a bacterial disease in laboratory-cultured larvae of the European flat oyster <u>Ostrea edulis</u> L."
K:11 Shellfish and Benthos Committee	P J Dare	"Preliminary studies on the utilization of the resources of spat mussels, <u>Mytilus edulis</u> L., occurring in Morecambe Bay, England".
K:16 Shellfish and Benthos Committee	P M Connor	"The acute toxicity of heavy metals to the larvae of some marine animals!"
K:17 Shellfish and Benthos Committee	P A Ayres	"Non-specific illness associated with the consumption of molluscan shellfish: a report of current investigations in England".
L:9 Plankton Committee	J D Dodge and Mrs J H Carslake	"Distribution of marine dinoflagellates around the British Isles!"
M:7 Anadromous and Catadromous Fish Committee	J M Anderson and P F Elson	"Effect on adult returns of exposure of native wild smolt to sublethal DDT".

F - DEMERSAL FISH (NORTHERN) COMMITTEE

F:1		"Administrative Report".
F:2		"Report of the North-Western Working Group, 1970".
F:3		"Report of the North-East Arctic Fisheries Working Group, February 1-5, 1971" (with Supplement).
F:4		"Preliminary Report of the North Sea Roundfish Working Group" (with Supplement).
F:5		"Report by the North Sea Roundfish Working Group on North Sea Cod".
F:6	Secretary, Liaison Committee	"Various items for consideration by the Committee".
F:7	V N Schleinik	"On the fecundity of Polar cod (<u>Boreogadus saida</u>) in the Barents Sea".
F:8	T K Syssoeva	"Survival of larvae of the Barents Sea cod in connection with the feeding conditions and water temperature".
F:9	A Hysten, J Gjesater and O M Smedstad	"Preliminary report of a fish survey in the Barents Sea and adjacent waters in June 1971".
F:10	R Jones	"Further experiments on catching roundfish in good condition".
F:11	J R G Hislop and R S Bailey	"Scottish investigations on the pelagic 0-group phase of some demersal gadoids in 1970".
F:12	R S Bailey and W B Hall	"Year-class fluctuations and mortality rates of Norway pout around Scotland.
F:13	D W Armstrong	"Scottish plaice tagging experiments in the North Sea 1910-1961".
F:14		"Report of the North Sea Flatfish Working Group on Plaice" (with Corrigendum).
F:15	A S Baranenkov	"Long-term fluctuations of abundance of eggs and larvae of Barents Sea fish".
Ref. Pelagic Fish (N) Committee		
F:16	M A Sonina	"La fécondité de l'églefin arcto-norvégien (<u>Melanogrammus aeglefinus</u> Linné)!"
F:17	T S Berger	"Peculiarities of cod distribution in the Barents Sea in 1970".
F:18	M J Holden	"A preliminary assessment of the state of the sole stocks in the Irish Sea and Bristol Channel".
F:19	Else Nielsen	"On growth and fertility of <u>Myoxocephalus scorpius</u> in the Danish waters".

Demersal Fish (N) Committee (ctd)

F:20	A Hysten and T Jakobsen	"O-group saithe in the West Spitsbergen area".
F:21	I D Tormosova	"Survey of haddock eggs and larvae in the northern part of the North Sea, 1969 and 1970".
F:22	V P Shestov and Z V Blagodelskaya	"Investigations of the haddock stock on the Rockall Bank in 1969 and 1970".
F:23	I P Golubjatnikova	"Soviet investigations of saithe (<u>Pollachius virens</u>) in the North Sea in 1966-1970".
F:24	Erik Hoffmann	"The fecundity of the flounder (<u>Platichthys flesus</u> L.) in a Danish fjord".
F:25		Withdrawn.
F:26	G Navdal	"Differentiation of 'marinus' and 'mentella' types of redfish by electrophoresis of hemoglobins".

Contributions from other Committees with Reference to the
Demersal Fish (Northern) Committee

A:3 Consultative Committee	General Secretary	"Division of tasks between the Fish Committees".
B:11 Gear and Behaviour Committee	J F de Veen and W F Rodenburg	"Discarding in the Dutch sole fisheries in 1969 and 1970".
B:15 Gear and Behaviour Committee	J Blindheim and O Nakken	"Abundance estimation of the spawning Lofoten cod in 1971".
D:3 Statistics Committee		"Advance Release of Tables 1-5 of Bulletin Statistique, Vol.55, 1970".
D:4 Statistics Committee	Statistician	"Suggestions for changes in coverage and lay-out of Statistical News Letters 'Demersal Species'".
C:12 Hydrography Committee	Jens Smed	"Monthly charts of temperature and salinity in the North Sea for the period of the ICES Young Herring Survey 1971".
C:16 Hydrography Committee	Jens Smed	"Monthly synoptic charts of bottom temperature and salinity in the North Sea: a trial for the months May-December, 1970".

Demersal Fish (N) Cttee, Ref. Papers (ctd)

C:17 Hydrography Committee	Jens Smed	"Monthly synoptic charts of temperature and salinity at 10 m depth and near bottom in Skagerrak + Kattegat".
H:16 Pelagic Fish (Northern) Committee	P Agger, I Boëtius and H Lassen	"On errors in the virtual population analysis".
H:17 Pelagic Fish (Northern) Committee	H Lassen	"Estimation of strength of year classes and of fishing efficiency based on environmental assumptions in a self-generating dynamic population model".
H:30 Pelagic Fish (Northern) Committee		"Report on the international O-group fish survey in Icelandic and Greenland waters in June-August 1971".
H:31 Pelagic Fish (Northern) Committee		"Report on joint Soviet-Icelandic investigations into the distribution and availability of pelagic fish in relation to oceanographic conditions in the Norwegian and Iceland Seas in May-June 1971".
H:32 Pelagic Fish (Northern) Committee		"Preliminary report of the International O-group fish survey in the Barents Sea and adjacent waters in August-September 1971".
Cod No.4 Special Meeting	A Miller	"Spawning of cod in Bornholm Basin - Preliminary Report".

G - DEMERSAL FISH (SOUTHERN) COMMITTEE

G:1		"Administrative Report".
G:2	Lê Trong Phâñ and A Kompowski	"Studies on sea breams from the north- west African region".
G:3	S M Overko	"Studies on length structure of the <u>Caranx rhonchus</u> stock off the West- African coast (Cape Verde - Cape Blanc)".
G:4		Withdrawn.
G:5 Ref. Dem.Fish (N) Cttee	R Guichet et J Gueguen	"Données nouvelles sur les rendements de la pêche au merlu dans l'Atlantique européen".

Contributions from other Committees with Reference to
the Demersal Fish (Southern) Committee

A:3 Consultative Committee	General Secretary	"Division of tasks between the Fish Committees".
D:3 Statistics Committee		"Advance Release of Tables 1-5 of Bulletin Statistique, Volume 55, 1970".
D:4 Statistics Committee	Statistician	"Suggestions for changes in coverage and lay-out of Statistical News Letters 'Demersal Species'".

H - PELAGIC FISH (NORTHERN) COMMITTEE

- H:1 "Administrative Report".
- H:2 "Report of the Meeting of the Working Group on Atlanto-Scandian Herring 12-13 January 1971".
- H:3 "ICES Working Group on the Bløden Tagging Experiment. Report on Meeting 29 March to 2 April 1971".
- H:4 "Report of the Working Group on North Sea Young Herring Surveys".
- H:5 K H Postuma and K Kuitert "Report on the International Trawling Survey for Immature Herring in the North Sea".
- H:6 V N Kuznetsov "Results of Soviet investigations of blue whiting in the Norwegian Sea in summer and autumn 1970".
- H:7 E I Seliverstova "Relations between growth of the body and of scales in the Atlanto-Scandian herring".
- H:8 V V Penin "On the influence of hydrometeorological factors on the distribution of capelin in the spawning period, and the time of their approach to the southern Barents Sea coast".
- H:9 V S Zenkin "About the identity of 'C' and 'A' erythrocyte antigens in Atlantic herring (Clupea harengus harengus L.)".
- H:10 "Report of the Working Group on North Sea Herring Larval Surveys".
- H:11 T E Pashkova "Distribution and biological characteristics of herring with a smaller vertebral count in the south-eastern Barents Sea in the autumn-winter period, 1968-1971".
- H:12 A S Seliverstov "Soviet investigations on the Atlanto-Scandian herring in the Norwegian Sea in 1970".
- H:13 E I Seliverstova "The abundance of the Barents Sea herring of the 1959 year class in the Norwegian Sea".
- H:14 A C Burd "The area reportage of herring statistics".
Ref. Statistics Committee
- H:15 J J Zijlstra "Report on the International Surveys of Herring Larvae in the North Sea and adjacent Waters in 1970/71".
- H:16 P Agger, I Boëtius and H Lassen "On errors in the virtual population analysis".
Ref. Dem. Fish (N) Committee
- H:17 H Lassen "Estimation of strength of year classes and of fishing efficiency based on environmental assumptions in a self-generating dynamic population model".
Ref. Dem. Fish (N) Committee

Pelagic Fish (N) Committee (ctd)

H:18	A C Burd and G J Howlett	"Fecundity of Bank and Downs herring".
H:19	A Lindquist	"Contributions to the knowledge of the Baltic sprat (<u>Sprattus sprattus</u>)".
H:20	A Lindquist and B A Bengtsson	"Routine for data processing of fishery biological samples".
H:21	A Saville	"Mortality rates of the herring stock in the north-western North Sea".
H:22	R S Bailey	"Scottish investigations on the midwater population of blue whiting in the Faroe-Iceland region".
H:23	J Hamre	"Further results of the Norwegian mackerel investigations".
H:24	O Dragesund, J Gjøsaeter and T Monstad	"Preliminary results of the Norwegian capelin investigations during winter and spring 1971".
H:25	S Bakke and H Bjerke	"Diving observations on Barents Sea capelin at its spawning grounds off the coast of northern Norway".
H:26	O Dragesund and S H Jakupsstovu	"Observations on distribution and migration of <u>Micromesistius poutassou</u> (Risso 1810) in the north-east Atlantic".
H:27	P Solemdal	"Physical parameters of mackerel eggs, naturally and artificially fertilized; size, dry weight, and neutral buoyancy of the eggs and larval length at yolk-sac stage".
H:28		"Report of the North Sea Herring Assessment Working Group's Meeting".
H:29		Withdrawn.
H:30 Ref.Dem(N) Cttee		"Report on the international O-group fish survey in Iceland and Greenland waters in June-August 1971".
H:31 Ref.Dem.Fish(N), Hydrography and Plankton Cttees.		"Report on joint Soviet-Icelandic investigations into the distribution and availability of pelagic fish in relation to oceanographic conditions in the Norwegian and Iceland Seas in May-June 1971".
H:32 Dem. Fish(N) and Hydrography Cttees.		"Preliminary Report of the International O-group fish survey in the Barents Sea and adjacent waters in Aug-Sept.1971".

Contributions from other Committees with Reference to the

Pelagic Fish (Northern) Committee

A:3
Consultative
Committee

General
Secretary

"Division of tasks between the Fish Committees".

Pelagic Fish (N) Cttee., Ref.Papers (ctd)

C:12 Hydrography Committee	Jens Smed	"Monthly charts of temperature and salinity in the North Sea for the period of the ICES Young Herring Survey 1971".
C:16 Hydrography Committee	Jens Smed	"Monthly synoptic charts of bottom temperature and salinity in the North Sea: a trial for the months May-December, 1970".
C:17 Hydrography Committee	Jens Smed	"Monthly synoptic charts of temperature and salinity at 10 m depth and near bottom in Skagerrak + Kattegat".
D:3 Statistics Committee		"Advance Release of Tables 1-5 of Bulletin Statistique, Volume 55, 1970".
F:15 Demersal Fish (N) Cttee.	A S Baranenkova	"Long-term fluctuations of abundance of eggs and larvae of Barents Sea fish".
Herring No.2 Special Meeting	D Schnack	"On the biology of herring larvae in the Schlei fjord, western Baltic".

J - PELAGIC FISH (SOUTHERN) COMMITTEE

J:1		"Administrative Report".
J:2	H Aloncle, J Hamre, J Rodriguez-Roda, and K Tiews	"Report from the Bluefin Tuna Working Group - Observations on the size composition of bluefin tuna catches from 1970".
J:3	S M Overko	"Size composition of <u>Trachurus</u> <u>trecae</u> stock in the shelf waters of the north-western African coast".
J:4	S M Overko	"Dynamics of the length structure of commercial stocks of horse-mackerel (<u>Trachurus trachurus</u>) in the central- eastern Atlantic waters".
J:5	Pham-Thuoc and J Szypuła	"Age and growth rate of gilt sardine (<u>Sardinella aurita</u> Cuv. et Val.) from the north-west African waters".
J:6	J Wojciechowski	"Some observations on the biology of <u>Trichiurus lepturus</u> L. from Cape Blanc to the Cape Verde area".
J:7	S Arbault et N Lacroix	"Ponte de la sardine, de l'anchois et du sprat dans le Golfe de Gascogne en 1970 - Etablissement de zones-test et étude de l'environnement zooplanctonique".
J:8	G Kurc, A Vincent, D Guerault, J Prado et J L Avrilla	"Hydrologie et pêche des sardines dans le Golfe de Gascogne en 1970".
J:9	H Aloncle et F Delaporte	"Données nouvelles sur la physiologie du germon <u>Thunnus alalunga</u> (Bonnaterre 1788)".
J:10	H Aloncle et F Delaporte	"Remarques sur les principales proies du germon (<u>Thunnus alalunga</u> Bonnaterre 1788)".
J:11	V G Kolesnikov and S M Overko	"Habitat and distribution of horse-mackerel in the area off North-West Africa depending on the oceanological environment".

Contributions from other Committees with Reference to the
Pelagic Fish (Southern) Committee

A:3
Consultative
Committee

General
Secretary

"Division of tasks between the Fish
Committees".

D:3
Statistics
Committee

"Advance Release of Tables 1-5 of Bulletin
Statistique, Volume 55, 1970".

K - SHELLFISH AND BENTHOS COMMITTEE

- K:1 "Administrative Report".
- K:2 J P Hillis "Growth studies in Nephrops".
- K:3 J P Hillis "Effects of Light on Nephrops catches".
- K:4 F A Gibson "Catch and effort in the Irish lobster/crawfish fisheries 1951-1969".
- K:5 R Meixner "The standing stock of mussels Mytilus edulis per culture raft in the 'Flensburger Förde'".
- K:6 O Cendrero "Premières données sur le parasitisme de Sacculina carcini Thompson chez Carcinus maenas (L.) dans la baie de Santander".
- K:7 A F Karpevich and A T Shurin "Salinity ranges of the Gulf of Riga invertebrates".
- K:8 B T Hepper "An apparent relationship between catch per unit of effort and temperature in the English lobster fishery".
- K:9 B T Hepper "Preliminary observations on the crawfish Palinurus vulgaris Latr. off the coast of Guernsey, Channel Islands".
- K:10 M M Helm and Mrs F M Smith "Observations on a bacterial disease in laboratory-cultured larvae of the European flat oyster Ostrea edulis L.".
Ref. Fisheries Improvement Cttee
- K:11 P J Dare "Preliminary studies on the utilization of the resources of spat mussels, Mytilus edulis L., occurring in Morecambe Bay, England!"
Ref. Fisheries Improvement Cttee
- K:12 P R Walne "A comparison of seasonal growth of 5 species of bivalves in the Menai Straits".
- K:13 R W Blacker "Underwater observations of Pandalus borealis in the NW Barents Sea".
- K:14 P J Warren "English fishery for pink shrimp, Pandalus montagui, in the Wash".
- K:15 "Bibliography of papers published by adherents to the Shellfish and Benthos Committee during 1970".
- K:16 P M Connor "The acute toxicity of heavy metals to the larvae of some marine animals".
Ref. Fisheries Improvement Cttee
- K:17 P A Ayres "Non-specific illness associated with the consumption of molluscan shellfish: a report of current investigations in England".
Ref. Fisheries Improvement Cttee
- K:18 D J Symonds "The Nephrops fisheries of England and Wales".
- K:19 D J Aldermarr "Shellfish disease in the United Kingdom 1970-71".

Shellfish and Benthos Cttee (ctd)

K:20	A Franklin and G D Pickett	"The introduction of hydraulic dredging into the Thames estuary cockle fishery".
K:21	E E Møllerud	"On the internal bacterial flora of the European lobster, <u>Homarus vulgaris</u> L. and its susceptibility of Gaffkaemia".
K:22	P J Warren	"Shrimp landings in the Wash: a possible relationship with temperature".
K:23	R R Stephenson and M M Helm	"Supplementary algal feeding of a laboratory breeding stock of <u>Ostrea edulis</u> L. and its effect on the potential of larvae".
K:24	F R Walne and B E Spencer	"Further experiments on the growth of the spat of <u>Ostrea edulis</u> L. in a closed water system".
K:25	J F Caddy	"Efficiency and selectivity of the Canadian offshore scallop dredge".
K:26	J Audouin et M Leglise	"Note préliminaire sur la présence de <u>Gaffkya homari</u> dans le sang des homards stockés dans les viviers de la région de Roscoff".
K:27	E His	"Activité comparée chez les espèces <u>Crassostrea angulata</u> Lmk et <u>Crassostrea gigas</u> Thunberg, en hiver".
K:28	M M Helm	"The effect of sea water quality on the laboratory culture of <u>Ostrea edulis</u> L. larvae".
K:29	S Munch-Petersen	"Growth and mortality parameters for the soft clams (<u>Mya arenaria</u> L.) in a Danish estuary, and an estimate of yield".
K:30	A Prakash	"Induced detoxification of shellfish - some preliminary results".
K:31	J Drinkwater	"Further observations on the distribution of <u>Mytilicola intestinalis</u> around Scotland".
K:32	R Boddeke and N Daan	"The influence of the strong year-classes of cod 1969 and 1970 on the stock of Brown Shrimp along the Netherlands coast in 1970 and 1971".

Contributions from other Committees with Reference to the
Shellfish and Benthos Committee

B:6 Gear and Behaviour Committee	D J Symonds and A C Simpson	"Preliminary report on a specially designed <u>Nephrops</u> trawl for releasing undersized roundfish".
B:14 Gear and Behaviour Committee	R Boddeke and J F de Veen	"Results of tagging experiments with the by-catch of plaice of a Dutch shrimpboat".

Shellfish and Benthos Cttee, Ref.Papers (ctd)

D:5 Statistics Committee	Statistician	"Review of Table 5 'Invertebrates' in Bulletin Statistique".
E:27 Fisheries Improvement Committee	P A Ayres	"Results of the 1971 monitoring programme for mussel toxicity on the NE coast of Britain".
L:14 Plankton Committee	E Sakshaug, A Jensen and A Prakash	" <u>Gonyaulax tamarensis</u> - the causative organism of mussel toxicity in Trondheimsfjord".

L - PLANKTON COMMITTEE

L:1		"Administrative Report".
L:2	J Corral	"Planktonic copepods from the Canary Islands".
L:3		"Travaux de Planctonologie (1970-1971)".
L:4	J H Fraser	"Plankton Identification Sheets. Editor's Report 1970-1971".
Ref. Editorial Committee		
L:5	Krystyna Wiktor	"Biomass of zooplankton and distribution of fish larvae in the shelf waters off northwest Africa in February 1970".
L:6	E Ya Rossova	"Microbiological investigations in the north-east Atlantic".
L:7	Vøgg H Jacobsen	"Preliminary notes on zooplankton investigations from 3 Danish lightvessels 1962-1971".
L:8	J-P Casanova	"Considérations sur les peuplements d'Euphausiacés de l'Atlantique Eurafriquein (de la Bretagne au Rio de Oro)".
L:9	J D Dodge and Mrs J Carslake	"Distribution of marine dinoflagellates around the British Isles".
Ref. Fisheries Improvement Cttee		
L:10	J-P Casanova	"Plancton et masses d'eau dans le Détroit de Davis (côte ouest du Groenland)".
L:11	J Krey and B Zeitzschel	"Long-term observations of oxygen and chlorophyll <u>a</u> in Kiel Bight".
L:12	T Melvasalo	"Observations on the plankton in the sea area of the City of Helsinki".
L:13	J Beaudoin	"Résultats préliminaires de la campagne de la 'Thalassa' effectuée dans le Détroit de Davis (juillet-août 1970)".
L:14	E Sakshaug, A Jensen and A Prakash	" <u>Gonyaulax tamarensis</u> - the causative organism of mussel toxicity in Trondheimsfjord".
Ref. Shellfish and Benthos Committee		
L:15	J C de Kroon and W W C Gieskes	"Studies of primary productivity and of particle size spectra in the southern North Sea".
Ref. Hydrography Committee		
L:16	S H Fonselius	"On primary production in the Baltic".
Ref. Hydrography Committee		

Contributions from other Committees with Reference to the Plankton Committee

C:10	D Nehring, H J Brosin et al.	"Review on recent Baltic research by the GDR Institute for Marine Research in Warnemünde".
Hydrography Committee		

Plankton Committee, Ref.Papers (ctd)

C:12 Hydrography Committee		"Monthly charts of temperature and salinity in the North Sea for the period of the ICES Young Herring Survey 1971".
C:16 Hydrography Committee	Jens Smed	"Monthly synoptic charts of bottom temperature and salinity in the North Sea: a trial for the months May-December 1970".
C:17 Hydrography Committee	Jens Smed	"Monthly synoptic charts of temperature and salinity at 10 m depth and near bottom in Kattegat + Skagerrak".
C:18 Hydrography Committee	Jens Smed and Poula Holm	"Sample pages of 'Annual Report on Oceanographic Cruises and Data Stations in 1970'".
C:38 Hydrography Committee	F Vegter	"Nutrient intrusion by the river Rhine into Dutch coastal waters".
C:39 Hydrography Committee	A J van Bennekom	"The silicon cycle in the southern North Sea".
E:27 Fisheries Improvement Committee	P A Ayres	"Results of the 1971 monitoring programme for mussel toxicity on the NE coast of Britain".
H:31 Pelagic Fish (N) Cttee		"Report on joint Soviet-Icelandic investigations into the distribution and availability of pelagic fish in relation to oceanographic conditions in the Norwegian and Iceland Seas in May-June 1971".
J:7 Pelagic Fish (S) Cttee	S Arbault et N Lacroix	"Ponte de la sardine, de l'anchois et du sprat dans le Golfe de Gascogne en 1970 - Etablissement de zones-test et étude de l'environnement zooplanctonique".
Cod No.4 Special Meeting	A Miller	"Spawning of cod in Bornholm Basin - Preliminary Report".

M - ANADROMOUS AND CATADROMOUS FISH COMMITTEE

- M:1 "Administrative Report".
- M:2 "Report of the ICES/ICNAF Joint Working Party on North Atlantic Salmon, Pitlochry, March 29 - April 1, 1971".
- M:3 H Mann "The ulcerative dermal necrosis of salmonids (UDN) in Germany".
- M:4 V K Miténeuf "La faune des parasites du saumon atlantique (Salmo salar L.) peuplant la rivière Ponoï de la péninsule de Kola".
- M:5 E Twomey "Length and age composition of salmon of the commercial catch from seven of the major centres in Ireland".
- M:6 C Moriarty "Biological studies of Irish eel".
- M:7 J M Anderson and P F Elson "Effect on adult returns of exposure of native wild smolt to sublethal DDT".
Ref. Fisheries Improvement Cttee
- M:8 A Swain and A S Champion "The performance of darkened silver tags on Atlantic salmon smolts".
- M:9 A S Champion "An evaluation of the utility of a plastic strap tag applied to ascending salmon migrants".
- M:10 A Swain "The efficiency of certain types of smolt tags and tagging techniques adopted by the Ministry of Agriculture, Fisheries and Food".
- M:11 H Mackenzie "Some observations on the Cooperative Research Report, Series A, No.24. - Third Report of the ICES/ICNAF Joint Working Party on North Atlantic Salmon, December 1970".
- M:12 V V Ovchinnikov "The influence of hydrological factors upon the orientation of European eel (Anguilla anguilla (L.))".
- M:13 J A Ritter and D B Lister "Preliminary observations on differences in fishery contributions of hatchery-reared Atlantic salmon (Salmo salar) smolts, related to stock selection and release location".
- M:14 Dag Møller "Genetic diversity in salmon".

N - MARINE MAMMALS COMMITTEE

- N:1 "Administrative Report".
- N:2 S Söderberg "Seal hunting in Sweden and Finland during the 20th century".
- N:3 S Söderberg "Commercial damage and feeding habits of seals in the Baltic; a preliminary report".
- N:4 Withdrawn.
- N:5 W N Bonner "Increasing grey seal numbers at the Farne Islands".
- N:6 R Gambell "Sperm whale biology related to stock assessments".
- N:7 A W Mansfield "The distribution and population status of the grey seal, Halichoerus grypus, in eastern Canadian waters".
- N:8 H Aloncle "Observations sur une troupe de Globicephales (Globicephala melaena Traill 1809) à tête blanche".
- N:9 A V Holden "Organochlorine residues in harp seal pups".
- N:10 A V Holden "Organochlorine residues in seals in the North Sea".
- N:11 G Nevdal "Status of serological studies on marine mammals in Norway".
- N:12 I Christensen "Field work on bottle-nose whales in the Labrador Sea".