

# Northwest Atlantic Fisheries Organization (NAFO)



Annual Report  
1992

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## Preface

This Annual Report for the year 1992 is submitted to the Contracting Parties of NAFO in accordance with the provisions of Article V.4 of the Convention on Future Multilateral Cooperation in the Northwest Atlantic Fisheries. The Report consists of four Parts that reflect the annual activities of NAFO's constituent bodies -the General Council, the Fisheries Commission, the Scientific Council, and the Secretariat as the summary proceedings and decisions through 1992. Full reports of all of the General Council and the Fisheries Commission meetings during the year are published in a separate edition -~~Proceedings of NAFO Meetings for the year 1992~~, and the proceedings of the Scientific Council are published in the Scientific Council Reports, 1992. The Annual Report includes a summary of meetings, scientific, statistical, financial and other appropriate information pertaining to the activities of the Organization and fisheries in the Regulatory Area:

- "Meeting Proceedings of the  
General Council and Fisheries Commission  
for 1992"

L. I. Chepel  
Executive Secretary



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## Introduction

The Northwest Atlantic Fisheries Organization (NAFO)\* operates under provisions of the Convention on Future Multilateral Cooperation in the Northwest Atlantic Fisheries signed in Ottawa, Canada, on 24 October 1978 and entered into force on 1 January 1979. The instruments of accessions to the Convention are deposited with the Government of Canada, "the Depositary".

In 1992 three new countries - Estonia, Latvia, and Lithuania - acceded to the Convention, and the membership of NAFO increased to 14 Contracting Parties.

The principal object of NAFO set forth by the Convention is to contribute through consultation and cooperation to the optimum utilization, rational management and conservation of the fishery resources of the Convention Area. To carry out its objectives NAFO was structured into the following four constituent bodies: the General Council, the Scientific Council, the Fisheries Commission, and the Secretariat. The first three constituent bodies meet at least once annually, while business of NAFO between meetings is performed through the Secretariat.

During 1992 NAFO held nine (9) meetings as follows in chronological order: Standing Committee for international control (STACTIC) in February, Copenhagen, Denmark; Scientific Council in March, St. John's, Canada; Standing Committee for non-Contracting Parties activities (STACFAC) in April, NAFO Headquarters, Canada; STACTIC Working Group in April, NAFO Headquarters; Special Fisheries Commission Meeting in May, Dartmouth, Canada; Special and Regular Scientific Council Meetings in June, NAFO Headquarters; Special STACTIC Meeting in July, Copenhagen, Denmark; and, the 14th Annual Meeting of the Organization including meetings of all constituent bodies was held at the Holiday Inn, Dartmouth, Nova Scotia, Canada on 14-18 September 1992.

Through the year the Scientific Council considered scientific data and provided the scientific assessment and recommendations to the Contracting Parties on the management of the nineteen (19) fish stocks in the Convention Area. The scientific findings were reported to the Fisheries Commission for the purpose of the management and conservation of fishery resources within the Regulatory Area. Very important studies were made at the Special Scientific Council Meeting in June regarding stock assessments of cod in Divisions 2J+3KL (requested by the coastal state - Canada). The prognosis and recommendations agreed by the Scientific Council were as follows: the stock has recently declined rapidly approaching its lowest observed level and the present level of the spawning stock is such as to cause concern; the exact cause(s) of this decline is unclear; further investigations into the relationships between the areal extent of the cold intermediate layer, and recruitment of cod in Divisions 2J+3KL be carried out. (NAFO SCS Doc. 92/20)

At the Special Session on State-of-the-Art in fish assessment held in September the Scientific Council proceeded through a tutorial workshop on calibration methods and their practical use (NAFO Scientific Council Studies, Number 17).

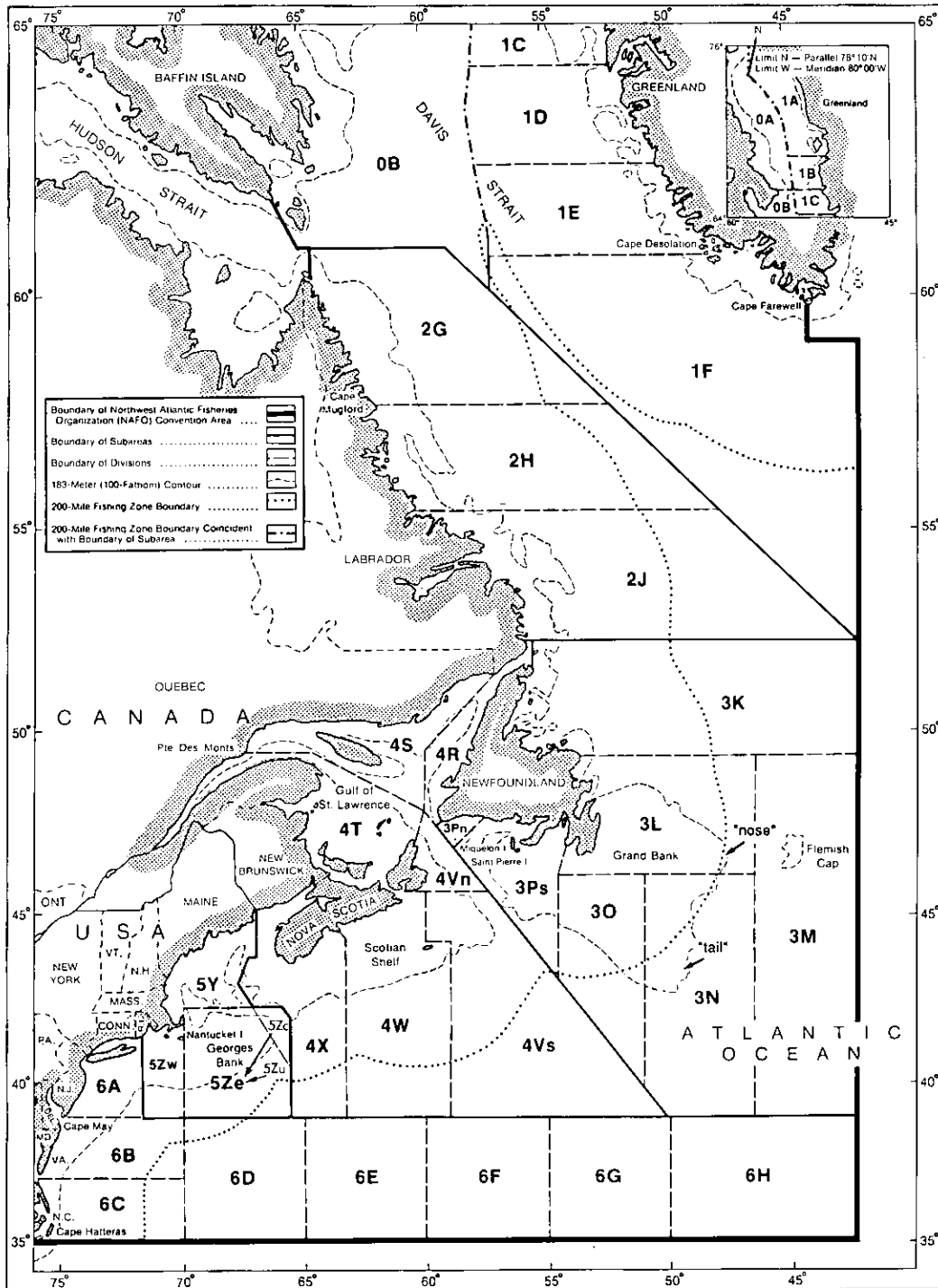
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\*Note: The previous sister Organization for the Region was ICNAF through the years 1950-1978 based on the International Convention for the Northwest Atlantic Fisheries.

At the Annual Meeting in September the Fisheries Commission adopted the Total Allowable Catches and new measures for improvements to inspection and control in the NAFO Regulatory Area based on the scientific studies and technical recommendations by STACTIC. The following proposals became binding in November 1992 and were incorporated in the NAFO Conservation and Enforcement Measures: A pilot project to test operation of a NAFO Observer Scheme in the NAFO Regulatory Area by 1 January 1993 for the purpose to monitor a vessel's compliance with the NAFO Conservation and Enforcement Measures; a prompt action by the Contracting Party in the case of apparent infringement of its vessel; introduction of production logbooks on board of vessels or stowage plans for recording and control of catches by inspectors assigned for the NAFO Scheme of Joint International Inspection and Surveillance (the NAFO Scheme); prohibition for vessels fishing in the NAFO Regulatory Area to have on board ready for use nets with a mesh size smaller than that authorized; effective control of the incidental catch limits by inspectors assigned to the NAFO Scheme; introduction of minimum mesh and fish sizes for groundfish fisheries in the Regulatory Area; prohibition of directed fishery for cod in Division 3L of the Regulatory Area in 1993 (which is consistent with the current moratorium by Canada for this stock in the 200-mile zone).

The General Council and its Standing Committee - STACFAC considered the most pressing problem regarding continuous fishing activities of non-Contracting Parties in the NAFO Regulatory Area. It was reported at the Annual Meeting (September, 1992) that the catch level by non-member states remained very high as in 1991 these countries, predominantly Panama and the Republic of Korea, had caught approximately 47 300 tons (by 34 vessels), and 32 non-member vessels were sighted in 1992. The General Council emphasizing that such activity is very harmful to the depleted resources and is against the provisions of the Law of the Sea resolved to continue diplomatic actions against non-Contracting Parties conducting unregulated fishing in the NAFO Regulatory Area.

## The Convention Area to which the Convention on Future Multilateral Cooperation in the Northwest Atlantic applies



**Structure of the Northwest Atlantic Fisheries Organization (NAFO) in 1992  
(as at 14th Annual Meeting, September 1992)**

**Contracting Parties**

Bulgaria, Canada, Cuba, Denmark (for Faroe Islands and Greenland), Estonia, European Economic Community (EEC), Iceland, Japan, Latvia, Lithuania, Norway, Poland, Romania, and Russia.

**President**

K. Yonezawa (Japan)

**Constituent Bodies**

General Council	Bulgaria, Canada, Cuba, Denmark (for Faroe Islands and Greenland), Estonia, EEC, Iceland, Japan, Latvia, Lithuania, Norway, Poland, Romania, and Russia.	<i>Chairman</i> - K. Yonezawa (Japan) <i>Vice-Chairman</i> - P. Gullestad (Norway)
Scientific Council	Bulgaria, Canada, Cuba, Denmark (for Faroe Islands and Greenland), Estonia, EEC, Iceland, Japan, Latvia, Lithuania, Norway, Poland, Romania, and Russia.	<i>Chairman</i> - V. P. Serebryakov (Russia) <i>Vice-Chairman</i> - H. Lassen (Denmark)
Fisheries Commission	Bulgaria, Canada, Cuba, Denmark (for Faroe Islands and Greenland), Estonia, EEC, Japan, Latvia, Lithuania, Norway, Poland, and Russia.	<i>Chairman</i> - E. Wiseman (Canada) <i>Vice-Chairman</i> - P. Hillenkamp (EEC)

**Standing Committees**

General Council	Standing Committee on Finance and Administration (STACFAD) Standing Committee on Fishing Activities of non-Contracting Parties in the Regulatory Area (STACFAC)	<i>Chairperson</i> - D. Gill (Canada) <i>Vice-Chairman</i> - H. Koster (EEC) <i>Chairman</i> - C. C. Southgate (EEC) <i>Vice-Chairman</i> - B. Garcia Moreno (Cuba)
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Scientific Council	Standing Committee on Fishery Science (STACFIS)	Chairman - H. P. Cornus (EEC)
	Standing Committee on Research Coordination (STACREC)	Chairman - A. Avila deMilo (EEC)
	Standing Committee on Publications (STACPUB)	Chairman - H. Lassen (Denmark)
	Executive Committee	Chairman - V. P. Serebryakov (Russia)
Fisheries Commission	Standing Committee on International Control (STACTIC)	Chairman - E. Lemche (Denmark)

#### Secretariat

Executive Secretary	L. I. Chepel
Assistant Executive Secretary	T. Amaratunga
Administrative Assistant	W. H. Champion
Senior Secretary	B. J. Cruikshank
Accounting Officer	F. D. Keating
Documents and Mailing Clerk	F. E. Perry
Statistical Officer	G. M. Moulton
Clerk-Duplicator Operator	R. A. Myers
Clerk-Duplicator Operator	B. T. Crawford
Clerk-Typist	D. C. A. Auby
Statistical Clerk	B. L. Marshall
Statistical Clerk	C. L. Kerr

#### Headquarters Location

192 Wyse Road, Dartmouth, Nova Scotia, Canada



# PART I

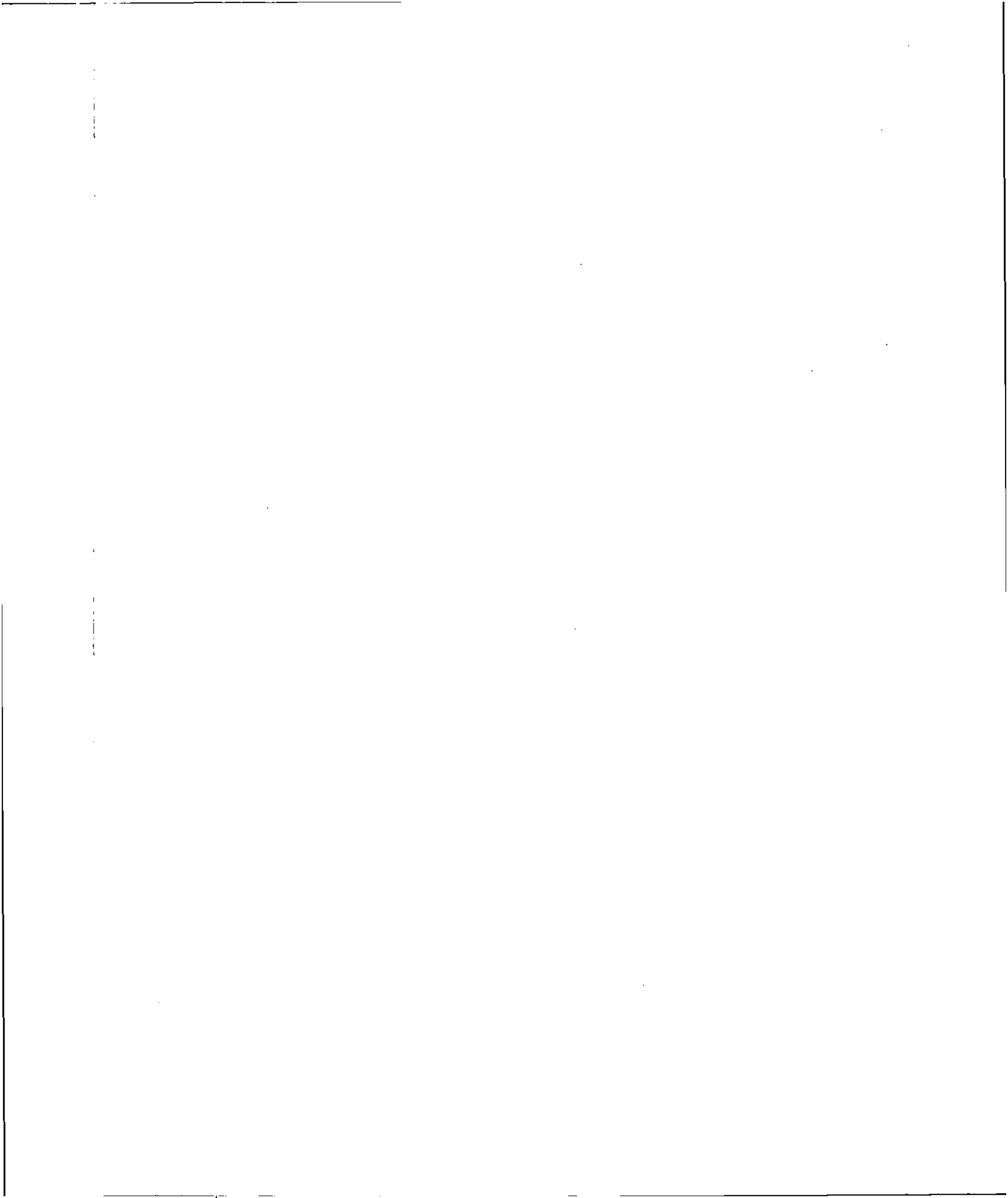
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## Activities of the General Council in 1992

### List of Meetings

The following meetings were held under the authority of the General Council in 1992:

- Standing Committee on Fishing Activities of Non-Contracting Parties in the Regulatory Area (STACFAC); 7-9 April, NAFO Headquarters, Dartmouth, Nova Scotia, Canada.
- The General Council and its subsidiary bodies (STACFAD and STACFAC) at the 14th Annual Meeting; 14-18 September, Holiday Inn, Dartmouth, Nova Scotia, Canada.





## Major Documents of the General Council in 1992

Serial No.	GC Doc. No.	Title
N2141	92/1	Report of the Meeting of the Standing Committee on Fishing Activities of non-Contracting Parties in the Regulatory Area (STACFAC), Dartmouth, Nova Scotia, Canada, 7-9 April 1992
N2146	92/2	Administrative Report and Financial Statements for the fiscal year ending 31 December 1992 (as of 31 July 1992)
N2163	92/3	Report of the General Council, 14th Annual Meeting, Dartmouth, Nova Scotia, Canada, 14-18 September 1992



## **Meeting of the Standing Committee on Fishing Activities of Non-Contracting Parties in the Regulatory Area (STACFAC)**

The meeting of STACFAC was held at NAFO Headquarters in Dartmouth, Nova Scotia, Canada on 7-9 April 1992 under the chairmanship of C. C. Southgate (EEC). Full proceedings of this Meeting are presented in GC Doc. 92/1 and in a separate edition of Meeting Proceedings of the General Council and the Fisheries Commission for 1992.

The following Contracting Parties were present: Canada, Denmark (in respect of the Faroe Islands and Greenland), European Economic Community (EEC) Japan, Poland and Russia (Annex 1).

A. Donohue (Canada) was appointed Rapporteur. The Agenda was adopted as circulated (Annex 2).

### **National Reports on Fishing Activities of Vessels of Non-Contracting Parties in the Regulatory Area (including details on the type, flag of vessels, and reported or estimated catches by species and area)**

The representatives of Canada and the European Community submitted detailed reports on non-Contracting Parties' vessels activity in the Regulatory Area for 1991 as well as Canadian overview for 1984-1991 (attached to NAFO GC Doc. 92/1). According to the Canadian report non-member nations caught, in 1991, 47 300 tons of groundfish consisting of 11 600 tons of cod, 17 050 tons of redfish, 11 650 tons of flounder, 6 150 tons of Greenland halibut, and 850 tons of various other species. The vessels under Panamanian flag caught 29 000 tons and under Korean flag, 7 400 tons. Certain vessels were reported under the flags of more than one country which is a subject of further clarification by Canada and European Community.

### **Consideration of Statistics Submitted by Contracting Parties on Their Imports of Groundfish Species Regulated by NAFO from Non-Contracting Parties Whose Vessels Fish in the Regulatory Area**

Reports were tabled by Canada, EEC and Japan. The representative of Canada reported that total import for 1991 was 1 005 tons (value \$3 895 000 Cdn) consisting mainly of sole fillets from the Republic of Korea; the total imports were down to 254 tons from 1 259 tons in 1990. The EEC report indicated that major export to the EEC came from Panama and less from the Republic of Korea, and slight contribution from Malta and St. Vincent. The total imports for 1990 were 7 950 tons and for 1991, 5 121 tons with drastic decrease from Korea and Malta. The EEC representative indicated that certain deductions could be made from the statistics due to some uncertainties of the origin of fish and explained that the statistics reflected for fresh, frozen and whole fish but not fillets. The Japanese report presented figures of import statistics as a whole but not exact data for the Northwest Atlantic (e.g. redfish imports from Korea could have been originated in either the Atlantic or Pacific). The representatives of Cuba, Denmark (in respect of the Faroe Islands and Greenland), and Russia informed that they do not import fish species caught in the Regulatory Area from non-Contracting Parties. As the final decision, the representatives agreed that certain correlations emerged between landings and sightings in the Regulatory Area of the vessels of non-Contracting Parties.

**National Reports on the Results of the Aide-Memoire (for Joint Diplomatic Demarches)  
Dispatched to Non-Contracting Parties and Proposals for Follow-up Actions**

The representatives of Canada and the EEC reported on their contacts with Panama, Venezuela, Cayman Islands, St. Vincent and Grenadines, Malta, Morocco, Sierra Leone, and the United States of America. Positive responses were notified from Panama, which issued a decree banning fishing by its vessels in the NAFO Regulatory Area, and Venezuela, which had warned its vessels to refrain from fishing in the Regulatory Area. Other non-Contracting Parties agreed to cooperate on this issue. The authorities of the United States of America indicated their intentions to curtail fishing in the Area, and as a matter of fact the USA vessels had not been fishing there in 1991 (in 1990 USA vessels caught 3 000 tons). The representative of Japan reported on their contacts with the Republic of Korea indicating that Korea considered to limit its activity in the Regulatory Area and withdrawn 1 vessel from there by June 1992.

The final agreement was reached by the Committee that while some progress was achieved, new diplomatic demarches should be made to Honduras, Korea, Panama, Sierra Leone, Venezuela, and Morocco.

(Note by Executive Secretary): The aide-memoires made by the Committee were approved by the General Council (by mail vote) and signed by the President of NAFO, Mr. K. Yonezawa. The following Contracting Parties had volunteered to lead diplomatic demarches: Canada - to Honduras, Morocco, and Sierra Leone; EEC - to Panama and Venezuela; Japan - to Korea.

**Report by the Executive Secretary on his Contacts with Non-Contracting Parties  
Regarding Fishing by Their Vessels in the Regulatory Area**

The full report on the contacts and initiatives was presented to the Committee in a STACFAC Working Paper. In accordance with the decision of the General Council at the 13th Annual Meeting the Executive Secretary's letters have been sent to the non-Contracting Parties fishing in the Regulatory Area, namely: the Republic of Honduras, the Republic of Korea, the Kingdom of Morocco, Panama, Saint Vincent and Grenadines, the United States of America, and Venezuela. In addition, telephone consultation and clarification on NAFO status were provided for authorities of Morocco, and a letter was dispatched to authorities of Finland intending to provide their flag to vessels of Estonia aiming fishing activity in the Regulatory Area.

**Examination of Methods of Improving the Reporting of Catches, Transshipment, etc.  
and Landings from the Regulatory Area by Non-Contracting Parties**

The Committee agreed to compile all statistical data presented by Contracting Parties (or non-Contracting Parties) into a single document showing each non-Contracting Party's vessels, total catches in the Regulatory Area and corresponding imports by Contracting Parties. It was emphasized that while caution should be exercised not to confer legitimacy on the activity of non-Contracting Parties' vessels in the Regulatory Area, non-Contracting Parties should be asked to fulfil the Law of the Sea obligation on the provision of statistics. The document should be appended to the Report to the General Council and would, in providing an overview of non-members activity, prove useful to the work of the Scientific Council.

**Examination of Options Open to Contracting Parties to Dissuade Their Nationals from Fishing in the Regulatory Area Under Non-Contracting Party Flags and to Discourage Such Activities Where They Are Currently Taking Place**

The delegations exchanged opinions and ideas on the subject. For some Contracting Parties it posed serious impediments for implementation of special policy. As an example some Contracting Parties have unsuccessfully tried to solve the problem in the NASCO context. The idea was suggested (by Canada) that one way to deal with the problem would be to withdraw fishermen's privileges such as port access. Finally the delegates agreed that effective domestic solutions would have to be found.

**Examination of Landing Declaration System to Collect Data on Landing of Catches by Non-Contracting Party Vessels in the Regulatory Area (for possible implementation in 1992)**

The representatives discussed the proposal based on the EEC paper (tabled at the 13th Annual Meeting). The discussions were focused on the following principles and common understanding of the purpose of the declaration: domestic authorities would be responsible for administration of the system including customs and fisheries inspectors; the declaration would be required only by non-Contracting Party vessels whose flag state had not provided catch statistics to NAFO; the system should be simple, non-discriminatory, be used to document the link between non-Contracting Party fishing in the Regulatory Area and the species being caught; the important issue would be re the point of landing, transshipment, and a scope of implementation (e.g. product coverage, incentives, trade besides the Contracting Party's interest, consistency with international law and GATT, etc.).

**Report to the General Council**

The draft report prepared by the Chairman of the Committee was agreed by the Meeting. As the draft text set out clearly the information gathered only to date, there was need for further work, areas of agreement among the Parties, and up-dated undertakings. The final decision was to finalize the text of the draft Report at the upcoming 14th Annual Meeting in September 1992. The meeting was adjourned at 1240 hours, 9 April 1992.

## Annex 1. List of Participants

### Standing Committee on Fishing Activities of Non-Contracting Parties in the Regulatory Area (STACFAC)

Dartmouth, Nova Scotia, Canada  
7-9 April 1992

#### CANADA

**Head of Delegation:** L. Forand, International Fisheries Directorate, Dept of Fisheries and Oceans, 200 Kent Street, 14th Floor, Ottawa, Ontario K1A 0E6

A. Donohue, International Fisheries Directorate, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6

J. Fitchett, Dept. of External Affairs, 125 Sussex Drive, Ottawa, Ontario K1A 0G2

B. Mayne, Dept. of Fisheries and Oceans, P.O. Box 5667, St. John's, Newfoundland A1C 5X1

#### DENMARK (in respect of the Faroe Islands and Greenland)

**Head of Delegation:** O. Loewe, Danish Embassy, 85 Range Rd., Apt. 702, Ottawa, Ontario K1N 8J6

#### EUROPEAN ECONOMIC COMMUNITY (EEC)

**Head of Delegation:** H. Koster, Commission of the European Communities, 200 Rue de la Loi, B-1049 Brussels, Belgium

T. Abadia, Commission of the European Communities, 200 Rue de la Loi, B-1049 Brussels, Belgium

S. Kristensen, Council of the European Communities, 170 Rue de la Loi, B-1048 Brussels, Belgium

G. F. Kingston, Delegation of the Commission of the European Communities, 350 Sparks St., Suite 1110, Ottawa, Ontario, Canada K1R 7S8

A. A. Machado Leite, Direccao Geral das Pescas, Av. Brasilia, 1400 Lisboa, Portugal

A. I. Pereira, Embassy of Portugal, 645 Island Park Drive, Ottawa, Ontario, Canada K1Y 0B8

M. I. Aragon, Secretaria General de Pesca Maritime, Ortega y Gasset 57, Madrid, Spain

C. C. Southgate, Ministry of Agriculture, Fisheries and Food, Nobel House, Rm 428, Smith Square, London, United Kingdom

#### JAPAN

**Head of Delegation:** K. Hanafusa, Deputy Director, International Affairs Div., Fisheries Agency, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo

T. Hasegawa, Japan Fisheries Association, Suite 1101 Duke Tower, 5251 Duke Street, Halifax, Nova Scotia, Canada B3J 1P6

M. Okuño, Trade and Marketing Div., Fisheries Agency, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo

M. Yoshida, Japan Deep Sea Trawlers Association, 601 Yasuda Bldg., 3-6 Kanda, Ogawa-cho, Chiyoda-ku, Tokyo

#### POLAND

**Head of Delegation:** J. Stremiau, Consul, Trade Commissioners Office of Poland, 3501 Ave du Musee, Montreal, Quebec, Canada H3G 2C8

## RUSSIA

**Head of Delegation:** A. Mikhailov, Representative of the Russian Federation on Fisheries in Canada, 2074 Robie Street,  
Ste. 2202-3, Halifax, Nova Scotia, Canada B3K 5L3

Y. I. Videneev, 2074 Robie Street, Ste. 2202-3, Halifax, Nova Scotia, Canada B3K 5L3

## NAFO SECRETARIAT

L. I. Chepel, Executive Secretary  
T. Amaratunga, Assistant Executive Secretary  
B. Cruikshank, Senior Secretary

## Annex 2. Agenda

### Standing Committee on Fishing Activities of Non-Contracting Parties in the Regulatory Area (STACFAC)

Dartmouth, Nova Scotia, Canada  
7-9 April 1992

1. Opening by the Chairman, C. C. Southgate (EEC)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. National reports on fishing activities of vessels of non-Contracting Parties in the Regulatory Area (including details on the type, flag of vessels and reported or estimated catches by species and area)
5. Consideration of statistics submitted by Contracting Parties on their imports of groundfish species regulated by NAFO from non-Contracting Parties whose vessels fish in the Regulatory Area (including details on the quantities by species landed, transhipped and countries and ports through which the product may be shipped)
6. National reports on the results of the Aide-Memoire (for joint diplomatic demarches) dispatches to non-Contracting Parties and proposals for follow-up action
7. Report by the Executive Secretary on his contacts with non-Contracting Parties regarding fishing by their vessels in the Regulatory Area
8. Examination of methods of improving the reporting of catches, transshipments, etc. and landings from the Regulatory Area by non-Contracting Parties
9. Examination of options open to Contracting Parties to dissuade their nationals from engaging in fishing activities in the Regulatory Area under non-Contracting Party flags and to discourage such activities where they are presently taking place
10. Examination of a landing declaration system to collect data on landing of catches by non-Contracting Party vessels in the Regulatory Area (for possible implementation in 1992)
11. Preparation of a comprehensive report to the General Council and recommendations on measures to resolve the problem
12. Other business
13. Adjournment



## General Council Meeting

The General Council Meeting including meetings of its subsidiary bodies - Standing Committee on Finance and Administration (STACFAD) and Standing Committee on Fishing Activities of non-Contracting Parties in the Regulatory Area (STACFAC) - was held during the 14th Annual NAFO Meeting on 14-18 September 1992 at the Holiday Inn, Dartmouth, Nova Scotia, Canada. Complete proceedings of this Meeting are presented in GC Doc. 92/3 and in a separate edition of Meeting Proceedings of the General Council and the Fisheries Commission for 1992.

The sessions of the subsidiary bodies were held through 14-18 September, and the General Council itself had three sessions on 15, 16, and 18 September.

### Opening of the Meeting (Agenda items 1 to 5)

The meeting was opened by the Chairman of the General Council, K. Yonezawa (Japan), 15 September 1992 at the Holiday Inn, Dartmouth, Nova Scotia, Canada. The following Contracting Parties were represented at the meeting: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, European Economic Community (EEC), Japan, Latvia, Lithuania, Norway, Poland, and Russia (Annex 1). The following Contracting Parties were absent: Bulgaria, Iceland, and Romania. The observers of the Republic of Korea and the United States of America were admitted to the Meeting.

The Chairman addressed the Meeting in his opening statement. He stressed the problems the Contracting Parties faced in terms of resource conservation and emphasized on the continuity along the path of cooperation and invited three new member states - Estonia, Latvia, Lithuania - to the Organization. It was noted that the name of one Contracting Party - USSR - was changed to Russian Federation (Russia) and the quorum (2/3 members - 9 Contracting Parties) was available for a decision making procedure.

The Representatives of Estonia, Latvia and Lithuania addressed the Meeting in their opening statements in pursuing their intentions to continue fishing in the NAFO Regulatory Area and cooperation within NAFO. The Korean observer in his remarks to the Meeting noted that Korea shares the concerns of NAFO member countries about the preservation of fish stocks and desires to take a more active part in these goals through mutual cooperation and understanding.

The Executive Secretary was designated Rapporteur of the Meeting. The Agenda was adopted as amended adding a new item 9 "Provision of fisheries data" (Annex 2).

The General Council considered an application from Greenpeace International for observer status at NAFO and decided not to grant the requested status. The authorities of Greenpeace International were informed of this decision by the Executive Secretary.

### Supervision and Coordination of the Organizational, Administrative and other Internal Affairs (Agenda items 6 to 12)

The General Council adopted the Proceedings of the 13th Annual Meeting (GC Doc. 91/7).

Agenda item 7, "Proposal for amendment to the NAFO Convention (by Canada)", deliberated through the Meeting for the rational and purpose of this amendment. The decision was reached to postpone discussion to another time. The representative of Canada stated that Canada will be following up after the Meeting to discuss the matter with NAFO members who are interested with Canada in developing these ideas.

Under Agenda item 8, "Rules of Procedure for the General Council (seconding of motions)", a paper was presented by the Executive Secretary and considered at STACFAD and the General Council. The Council decided to defer this subject without definite commitment.

For Agenda item 9, "Provision of fisheries data", which was referred to STACFAD and then finally considered at the General Council, the understanding was reached that all Contracting Parties should do their best to abide with proposed amendment to Rules of Procedure for the Scientific Council that provides - "For the purpose of Article VIII (NAFO Convention) the appropriate statistical information should be furnished to the Scientific Council in advance of meetings and with respect of STATLANT 21A and 21B not later than on 15 and 30 June respectively".

Under Agenda item 10, "Review of Membership", the three new member states - Estonia, Latvia, and Lithuania - were welcomed and admitted to the club of NAFO members. The recommendation from the Chairman was to consider on a bilateral level among the new members and Russia the question of distribution of quotas.

Agenda items 11-12, "NAFO Headquarters Accommodations" and "Administrative Report", were referred to STACFAD, whose recommendations were approved by the General Council as follows: the meeting of the Scientific Council in June 1993 should remain at NAFO Headquarters; the administrative report adopted on the provision that new Contracting Parties (Estonia, Latvia, Lithuania) should be assessed for their contributions for the period September-December 1992 and the other Contracting Parties should receive a credit on their assessments for 1993 accordingly.

#### **Coordination of External Relations (Agenda item 13)**

The note was taken by the General Council that with respect of UN Resolution 46/215 of 20 December 1991 a letter was dispatched by the Executive Secretary on behalf of NAFO (GF-92/234 of 20 May 1992) reconfirming that the Contracting Parties of NAFO were/are not practising large-scale pelagic driftnet fishing in the NAFO Regulatory Area.

#### **Fishing Activities in the Regulatory Area Adverse to the Objectives of the NAFO Convention (Article XIX of the Convention) (Agenda items 14-15)**

The provisions of Article XIX of the Convention provide: "The Contracting Parties agree to invite the attention of any State not a Party to this Convention to any matter relating to the fishing activities in the Regulatory Area of the nationals of vessels of that State which appear to affect adversely the attainment of the objectives of this Convention. The Contracting Parties further agree to confer when appropriate upon the steps to be taken towards obviating such adverse effects."

The report of the meeting of STACFAC in April 1992 (GC Doc. 92/1) was adopted by the General Council.

The Chairman of STACFAC, C. C. Southgate (EEC), presented the Committee's report and recommendations to the General Council (Annex 3) emphasizing on the following points: the unregulated fishing activity by non-Contracting Parties remained very high in 1991-1992, when approximately 32-34 vessels of non-members were fishing in the NAFO Regulatory Area (annual catches up to 47 300 tons); the catches were destined for the market of NAFO Contracting Parties; the Contracting Parties should continue joint diplomatic demarches and contacts on a bilateral level with non-Contracting Parties whose vessels fish in the Regulatory Area in the following years.

The STACFAC Report and recommendations were adopted by the General Council.

#### **Finance (Agenda items 16-19)**

The financial matters of NAFO were considered by STACFAD and then presented by the Chairperson of STACFAD, D. Gill (Canada), to the General Council, which adopted the Report and, in particular, took the following decisions: the budget of the Organization for 1993 adopted as amended (+\$5 000 for "external expertise" for a hail system) in the amount of \$943 000 Cdn; an Accumulated Surplus Account be maintained at \$75 000 and the balance be used to reduce contributions for 1993; to write off Romania's debt for 1993 and send a letter by the Chairman to the Romanian authorities asking if Romania wishes to continue its participation in NAFO; due to budgetary concerns, the hiring of an additional staff member who would manage and supervise the Hail System and other measures should not be considered at this time; to consider the subject of upgraded termination benefits (re Rule 10.4 of the Staff Rules) at the 15th Annual Meeting in September 1993.

#### **Closing the Meeting (Agenda items 20-23)**

The dates for the 15th Annual Meeting will be through 1-10 September 1993 for the Scientific Council and 6-10 September 1993 for the General Council and the Fisheries Commission. The place of the Meeting will be in the Halifax-Dartmouth Area unless any invitation is extended by a Contracting Party and accepted by the Organization.

The Press Release reflecting major undertakings and decisions by NAFO was circulated and approved by the General Council (Annex 4).

The Chairman closed the 14th Annual Meeting of the General Council at 1400 hours, 18 September 1992.

The list of decisions and actions by the General Council at the 14th Annual Meeting is presented in Annex 5.

## Annex 1. List of Participants

### General Council, 14th Annual Meeting

Dartmouth, Nova Scotia, Canada

14-18 September 1992

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## **Annex 2. Agenda**

**General Council, 14th Annual Meeting**

**Dartmouth, Nova Scotia, Canada**

**14-18 September 1992**

### **Opening Procedures**

1. Opening by Chairman, K. Yonezawa (Japan)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Admission of Observers
5. Publicity

### **Supervision and Coordination of the Organizational, Administrative and other Internal Affairs**

6. Approval of the Report of the 13th Annual Meeting, September 1991 (NAFO/GC Doc. 91/7)
7. Proposal for Amendment of the NAFO Convention (GC Working Paper 92/6)
8. Rules of Procedure for the General Council (seconding of motions)
9. Provision of fisheries data
10. Review of Membership
  - a) General Council
  - b) Fisheries Commission
11. NAFO Headquarters accommodations for conduction of NAFO meetings
12. Administrative Report

### **Coordination of the External Relations**

13. Request from the United Nations for information on the large-scale pelagic driftnet fishing (UN General Assembly Resolution 46/215 of 20 December 1991; NAFO GF/92-185 of 13 April 1992 and GF/92-234 of 20 May 1992)

### **Fishing activities in the Regulatory Area adverse to the objectives of the NAFO Convention**

14. Approval of the Report of the 4th Meeting of STACFAC (GC Doc. 92/1)

15. Report of STACFAC

**Finance**

16. Auditor's Report
17. Meeting of the Pension Society
18. Review of Meeting Dates and Date of Annual Meeting
19. Report of STACFAD and Adoption of Budget for 1993

**Closing Procedures**

20. Time and Place of Next Meeting
21. Other Business
22. Press Statement
23. Adjournment

### Annex 3. Report and Recommendations of STACFAC to the General Council

#### Report on Fishing Activities by Vessels Flying the Flag of non-NAFO Contracting Parties in the NAFO Regulatory Area

The 12th meeting of the NAFO General Council established the Standing Committee on Fishing Activities of Non-Contracting Parties (STACFAC), the terms of reference of which are attached (Attachment I).

At the 13th meeting of the NAFO General Council a Recommendation was adopted by consensus (NAFO/GC Doc. 91/6) according to which, *inter alia*, STACFAC shall submit a comprehensive report.

STACFAC agreed to report as follows:

- I Statistical Database
- II Efforts at Diplomatic persuasion
- III Other measures such as:
  - consideration of a Landing Declaration system to improve the statistical database
  - consideration of measures to discourage reflagging of vessels to non-Contracting Parties for fishing in the Regulatory Area

#### I Database

Information is sought on the level of catches in the Regulatory Area by non-Contracting Party vessels.

The statistical information available to STACFAC consists of:

- sightings of non-Contracting Party vessels in the Regulatory Area and information obtained from courtesy boardings
- Contracting Party statistics on imports of certain groundfish species from non-Contracting Parties
- information obtained from some non-Contracting Parties on their catches in the Regulatory Area

In relation to the information required from non-Contracting Parties this information is insufficient. STACFAC does not have at its disposal complete information on catches by non-Contracting Parties.

In order to assess the impact of non-Contracting Party fishing activities estimates have been made on the basis of assumed catch rates and of the period of time during which these vessels have been sighted in the Regulatory Area. Information on the destination of these catches (including whether NAFO Contracting Parties were the main destinations) was sought by comparing these estimates with statistics on groundfish imports from non-Contracting Parties (Attachment II). Although in some cases it was clear that the bulk of the catches was destined for Contracting Party markets, it was not generally possible to use import data either to establish final destinations of catches by non-Contracting Parties or to corroborate the Canadian catch estimates.

The following conclusions can, however, be drawn on the basis of the above information:

- estimations on catches of non-Contracting Party fishing activities in the Regulatory Area could well amount to more than a third of the total NAFO groundfish quotas.
- Non-Contracting Party catches in the Regulatory Area may not be primarily intended for non-Contracting Party markets but seem to be exported mainly to Contracting Party markets such as the EEC, and Japan.

Obviously, non-Contracting Party fishing activities in the Regulatory Area impede the conservation and rational management of fish stocks by NAFO, especially since fishing vessels flying non-Contracting Party flags are not bound by NAFO rules and do not respect NAFO decisions or the obligations of conservation, cooperation and flag state responsibility as provided for in UNCLOS. The Scientific Council has confirmed the use of small meshed nets by at least some of these vessels in some fisheries.

STACFAC considered possible ways of improving the database on non-Contracting Party fishing activities bearing in mind that this information is required for conservation and rational management decisions. It was agreed that non-Contracting Parties whose vessels have been sighted in the NAFO Regulatory Area should be requested to withdraw from the Area and to supply information on amounts already taken, in accordance with their obligations under the relevant provisions of the UN Law of the Sea Convention. Furthermore, it was agreed that uncontrolled transshipments complicate any scheme for the collection of such data. In that respect, Contracting Parties agreed to do everything possible to obtain better information including transshipment information, from their own and non-Contracting Parties authorities.

For the above reasons, it was agreed that the current information sources on non-Contracting Party fishing activities would be explored in detail and expanded where possible in order to obtain as much information as possible.

## II Diplomatic Persuasion Efforts

NAFO, together with its Contracting Parties, has made diplomatic demarches to eight (8) non-Contracting Parties, namely: Cayman Islands, Korea, Malta, Panama, St. Vincent and Grenadines, Venezuela, Morocco and USA.

STACFAC concluded that the results of certain demarches have been satisfactory whilst others have not yet produced the results desired.

- Malta and Cayman Islands had withdrawn their flags from their vessels sighted in the Regulatory Area. Morocco has responded positively but a definitive response is awaited.
- Panama and Venezuela responded positively but vessels flying their flag continue to be sighted in the Regulatory Area.
- USA vessels have not been sighted in the Regulatory Area and USA authorities have said that the USA relationship with NAFO is under review.
- Korea continues to operate in the Regulatory Area and continues to undermine NAFO conservation measures.

Despite NAFO's diplomatic initiatives the overall level of non-Contracting Party fishing activities has not been reduced and certain vessels de-registered in one flag state have re-registered in another non-Contracting Party (e.g. from Cayman Islands to Panama). This fact reflects the difficulties of addressing this problem.

For the above reasons STACFAC has arranged for further joint diplomatic demarches to Korea, Panama and Venezuela as well as joint demarches to Sierra Leone, Honduras and Morocco.

### III Other Measures

STACFAC considered further measures that could be implemented to resolve the problem.

Taking full account of the obligations of States with respect to the conservation of marine living resources as provided for in the relevant provisions of UNCLOS, STACFAC explored options along two lines. These are a possible landing declaration system to collect statistical data, and the possibility of action by Contracting Parties to discourage their nationals from operating reflagged vessels in the Regulatory Area in contravention of NAFO rules.

To the extent that non-Contracting Parties do not respond to diplomatic approaches STACFAC has considered the following specific measures:

- a) Landing Declaration - in order to improve the information on non-Contracting Party fishing activities STACFAC has been considering the implementation of a system of landing declarations, which would be required for landing and transshipment of NAFO-managed species of fish caught by non-Contracting Parties' vessels which were sighted in the Regulatory Area and which cannot or do not cooperate in providing catch data to NAFO. The landing declarations would indicate the quantities of fish imported caught in the NAFO Regulatory Area and would provide suitable supplementary data on non-Contracting Party catches in the NAFO Regulatory Area.

The details of implementation of a system of landing declarations and its implications for the administrative systems of the Contracting Parties are currently under discussion and will be carefully analysed in the intersessional meeting expected to take place in March or April 1993.

- b) Measures to discourage reflagging - Discussions within STACFAC have concluded that measures to dissuade commercial interests of Contracting Parties from reflagging their vessels to non-Contracting Party flag states for use within the NAFO Regulatory Area are essential. Such measures, however, depend upon an in-depth consideration of the national legislation of Contracting Parties and the need for any such measures to respect the principles of international law and an open international system of trade. Consideration of such measures has therefore to date been largely confined to internal debate within Contracting Parties but STACFAC members expressed their support for efforts being made to address this problem and their hope that solutions would be forthcoming.

Discussions on possible measures to address this problem are already commencing in a number of other international fora such as ICCAT, NASCO and the United Nations.

**Attachment I. Standing Committee on Fishing Activities  
of Non-Contracting Parties in the Regulatory Area  
(STACFAC)**

**Terms of Reference**

The Committee will examine, on the basis of the best available information, options to cause non-Contracting Parties to withdraw from fishing activities contrary to NAFO Conservation Measures in the Regulatory Area. The Committee will make recommendations to that effect to the General Council.

In particular, the Committee will

- obtain and compile all available information on the fishing activities of non-Contracting Parties in the Regulatory Area, including details on the type, flag and name of vessels and reported or estimated catches by species and area;
- obtain and compile all available information on landings, and transshipments of fish caught in the Regulatory Area by non-Contracting Parties, including details on the name and flag of the vessels; the quantities by species landed, transshipped; and the countries and ports through which the product was shipped;
- examine and assess all such options open to NAFO Contracting Parties including measures to control imports of fish caught by non-Contracting Party vessels in the Regulatory Area and to prevent the reflagging of fishing vessels to fish under the flags of non-Contracting Parties;
- recommend to the General Council measures to resolve the problem.

The Committee will include one representative from each Contracting Party that wishes to participate. The chairperson will be elected for a term of two years.

The initial chairperson will be \_\_\_\_\_.

The Committee will report to the General Council once a year, at the Annual Meeting of NAFO, and as otherwise requested by the General Council.



## Attachment II. Summary of Data Concerning Fishing by Non-Contracting Parties in the Regulatory Area

### 1. Nature of Information

- 1.1 At the 12th and 13th Annual Meetings of NAFO, Contracting Parties agreed that STACFAC should obtain and compile all available information on the fishing activities of non-Contracting Parties in the Regulatory Area and on landings and transshipment of fish caught in the Regulatory Area by non-Contracting Parties.
- 1.2 Two annual reports of activities, estimated effort and catches were provided by Canada. Sightings information was also provided by Japan, the EEC, and the USSR (Russia).
- 1.3 Import data for 1991 were provided by Japan, the EEC and Canada. While no conclusive links could be established, indications are that as Panama does not have a national cod fishing fleet, EEC imports of cod from Panama must come from reflagged EEC vessels. Japanese statistics showed significant imports of relevant species from Korea but it was not possible to determine how much was harvested in the Regulatory Area. Similarly, the small quantities of Canadian imports of groundfish from Korea could not be linked direct to Korean fishing in the Regulatory area.

### 2. Summary of Data by Country

- 2.1 Vessels from the following non-Contracting Parties have been sighted fishing in the Regulatory Area in 1991 and first quarter of 1992:

Panama  
Korea  
Venezuela  
Honduras  
Sierra Leone  
Morocco  
St. Vincent and the Grenadines

- 2.2 **Panama**

Twenty-five Panamanian flag vessels were sighted fishing in the Regulatory Area in 1991. Of these, 10 were pair trawlers and 3 were gillnetters. Twenty-three of these vessels had European nationality crews and two, the Peonia No. 9 and the Marsopla had crews of Korean nationality. These two vessels were also licensed by Korea to fish in the Regulatory Area. The 23 EEC crewed Panamanian vessels caught an estimated 22 000 tons (round weight) of groundfish over 2 200 effort days, at an average catch rate of 10 tons per day. The 2 Panamanian flag but Korean licensed and crewed vessels fished 7 000 tons of groundfish over 400 days at a rate of 17.5 tons/day.

The EEC imported 4 749 tons (product weight) of groundfish from Panama, not including salted cod. Japan imported 201 tons. There were no Canadian imports.

### 2.3 Korea

Three Korean flag vessels were sighted fishing in the Regulatory Area in 1991. These Korean flag vessels were estimated to have caught 7 400 tons round weight of groundfish over 550 days at an average of 13.4 tons per vessel day. Two Panamanian flag Korean crewed vessels have been licensed by Korea to fish in the Regulatory Area. These two Korean licensed vessels were estimated to have harvested 7 000 tons of groundfish over 100 days at an average of 10 tons per vessel day. Vessels under flag of Sierra Leone, St. Vincent's, Honduras and Morocco also had Korean crews. Total catches for Korean licensed and crewed vessels were approximately 24 000 tons round weight.

The EEC imported 1 828 tons product weight of NAFO-managed groundfish species from Korea, Canada 158 tons product weight, and Japan 9 195 tons product weight.

### 2.4 Venezuela

Two Venezuelan flag pair trawlers were sighted in the Regulatory Area in 1991. These vessels had European nationality crews. They were estimated to have fished 1 150 tons round weight of groundfish over 125 days at an average rate of 9.2 tons per vessel day.

The EEC imported 33 tons product weight of groundfish from Venezuela. There were no Canadian or Japanese imports.

### 2.5 Honduras

One Korean crewed Honduran flag vessel (Danica) fished in the Regulatory Area in 1991. It was estimated to have caught 4 000 tons round weight of groundfish over 225 days at an average rate of 17.7 tons per day. There were no EEC statistics for imports from Honduras. Japan imported 22 tons product weight of flounder from Honduras. There were no Canadian imports.

### 2.6 Sierra Leone

One Sierra Leone flag vessel (Great Splendour) fished in the Regulatory Area in 1991. It had a Korean crew and was estimated to have caught 3 200 tons round weight of groundfish over 225 days at a rate of 14.2 tons per day. There were no EEC or Japanese statistics for imports from Sierra Leone. There were no Canadian imports.

**2.7 Morocco**

One Moroccan vessel (Ein Chanech) fished in the Regulatory Area in 1991. It had some Korean crew and fished an estimated 600 tons round weight of groundfish over 60 days at a rate of 10 tons per day. There were no EEC statistics for imports from Morocco. Japan imported 527 tons of flounder from Morocco. There were no Canadian imports.

**2.8 St. Vincent and the Grenadines**

One Korean crewed vessel (Hao Quang III) fished in the Regulatory Area in 1991. It caught an estimated 2 000 tons round weight of groundfish over 200 days at a rate of 10 tons per day. The EEC imported 697 tons of flatfish from St. Vincent. There were no Japanese or Canadian imports.

## Annex 4. Press Release

### Northwest Atlantic Fisheries Organization 14th Annual Meeting - September 1992

1. The 14th Annual Meeting of the Northwest Atlantic Fisheries Organization (NAFO) was held in Dartmouth, Nova Scotia, Canada through 14-18 September 1992, under the chairmanship of K. Yonezawa (Japan), President of NAFO. The sessions of the constituent bodies of NAFO - the General Council, Scientific Council, Fisheries Commission, and subsidiary bodies - Standing Committee for finance (STACFAD), for non-Contracting Parties activities (STACFAC), for international control (STACTIC) were held at the Holiday Inn.
2. The delegations attending the meeting were from the following Contracting Parties: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, European Economic Community (EEC), Japan, Latvia, Lithuania, Norway, Poland, and Russia. Observers from the United States of America and the Republic of Korea were present.
3. This 1992 year Meeting was notable by accession of three new countries to the NAFO Convention - Estonia, Latvia, and Lithuania, which deposited their documents of accession to the Convention with the Government of Canada, and from the following dates have become members of NAFO: Estonia-31 August 1992; Latvia-28 August 1992; Lithuania-18 August 1992.
4. The Annual Meeting was preceded by the following eight meetings of the NAFO bodies: STACTIC (Copenhagen, Denmark, February), Scientific Council (St. John's, Newfoundland, March), STACFAC (NAFO Headquarters, April), STACTIC Working Group (NAFO Headquarters, April), Special Fisheries Commission Meeting (Dartmouth, Canada, May), Special Meeting and Regular Meeting of the Scientific Council (NAFO Headquarters, June), and Special STACTIC Meeting (Copenhagen, Denmark, July).
5. The Scientific Council, under the chairmanship of H. Lassen (EEC), provided the scientific assessment and recommendations pursuant to the provisions of the Convention on the management of the fishing stocks in the Convention Area. The scientific findings and recommendations were reported to the Fisheries Commission which utilized those as the scientific basis for the management and conservation of fishery resources within the Regulatory Area.
6. The Scientific Council Meeting was preceded by the Scientific Council Special Meeting on "State-of-the-Art in Fish Stock Assessment: a Tutorial/Workshop on Calibration Methods and their Practical use", which was held at NAFO Headquarters in Dartmouth through 9-11 September. Scientists from a majority of NAFO Contracting Parties attended, as well as some from other international organizations. The scientists assessed this meeting to be very valuable to expand the knowledge and improve the stock assessment methods performed by the scientific community.

7. The Fisheries Commission, under the chairmanship of E. Wiseman (Canada), considered and took decisions on some substantial issues pertaining to the management and conservation of the fisheries resources in the Regulatory Area.

Following the scientific advice from the Scientific Council, the Contracting Parties agreed on the Total Allowable Catches and allocations in 1993 for the fish stocks which are either entirely in the Regulatory Area or associated with the stocks within the 200-mile fishing zones. This information is attached in the Quota Table.

The Commission reached a consensus on substantive issues and adopted new proposals for international measures of control and enforcement within the Regulatory Area. The following new measures for improvements to inspection and control in the NAFO Regulatory Area will be incorporated in the NAFO Conservation and Enforcement Measures in accordance with the provisions of the NAFO Convention:

A pilot project to test operation of a NAFO Observer Scheme in the NAFO Regulatory Area by 1 January 1993 for the purpose to monitor a vessel's compliance with the NAFO Conservation and Enforcement Measures; a prompt action by the Contracting Party in the case of apparent infringement of its vessel; introduction of production logbooks on board of vessels or stowage plans for recording and control of catches by inspectors assigned for the NAFO Scheme of Joint International Inspection and Surveillance (the NAFO Scheme); prohibition for vessels fishing in the NAFO Regulatory Area to have on board ready for use nets with a mesh size smaller than that authorized; effective control of the incidental catch limits by inspectors assigned to the NAFO Scheme; introduction of minimum mesh and fish sizes for groundfish fisheries in the Regulatory Area.

8. Upon the joint proposal by Canada and the EEC, the Contracting Parties agreed that taking into account the available scientific advice, directed fisheries for cod in Div. 3L in the Regulatory Area shall not be permitted in 1993. This measure is consistent with the current moratorium that is being applied by Canada to the fishery of this stock.
9. Upon the presentation of the Standing Committee on Finance and Administration (STACFAD), the General Council adopted the Organization's budget and accounts for 1993.
10. The Standing Committee on Fishing Activities by Non-Contracting Parties in the Regulatory Area (STACFAC), under the chairmanship of C. C. Southgate (EEC), presented its Report to the General Council, which adopted further recommended actions to curtail unregulated fishing activities by non-Contracting Parties in the NAFO Regulatory Area. The General Council emphasized that such activity is very harmful to the depleted resources and is against the provisions of the Law of the Sea. In view of the real threat to the resources, it was recommended that NAFO should continue its full scale diplomatic actions against such unregulated fishing.
11. The General Council considered the UN Resolution 46/215 on large-scale pelagic driftnet fishing and again confirmed that such fishing is not presently practised by NAFO Contracting Parties in the Convention Area.

12. The following elections took place:

Chairman of STACFAC

- C. C. Southgate (EEC) for a second term (1993-1994)

Vice-Chairman of STACFAC

- B. Garcia Moreno (Cuba) for a second term (1993-1994)

Chairman of Standing Committee on Fisheries Science (STACFIS)

- H. P. Cornus (EEC)

NAFO Secretariat  
Canada  
18 September 1992

SCHEDULE I

Quota Table<sup>1</sup> for Year 1993

Column I	II	III	IV	V	VI	VII	VIII	IX	X	XI
Contracting Party	Cod	Cod	Redfish	Redfish	American plaice	American plaice	Yellowtail	Whitch	Capelin	Squid (Illex)
	Div. 3M	Div. 3NO	Div. 3M	Div. 3LN	Div. 3M	Div. 3LNO	Div. 3LNO	Div. 3NO	Div. 3NO	Subareas 3 + 4 <sup>3,4</sup>
1. Bulgaria	-	-	450	-	-	-	-	-	-	500
2. Canada	100	4 863	750	5 964	150	10 347	6 825	3 000	-	N.S. <sup>5</sup>
3. Cuba	480	-	2 625	1 372	-	-	-	-	-	2 250
4. Denmark (in respect of Faroe Islands & Greenland)	2 900	-	-	-	-	-	-	-	-	-
5. European Economic Community	6 465	3 762	4 650	476	350	133	140	-	-	N.S. <sup>5</sup>
6. Japan	-	-	600	-	-	-	-	-	-	2 250
7. Norway	1 200	-	-	-	-	-	-	-	-	-
8. Poland	500	-	-	-	-	-	-	-	-	1 000
9. Estonia	-	-	-	-	-	-	-	-	-	-
10. Latvia	1 270	1 218	20 775	6 104	1 000	-	-	1 950	-	5 000
11. Lithuania	-	-	-	-	-	-	-	-	-	-
12. Russia	-	-	-	-	-	-	-	-	-	-
13. Others	50	357	150	84	500	20	35	50	-	5 000
14. Total Allowable Catch	12 965	10 200	30 000	14 000	2 000	10 500	7 000	5 000	0	150 000 <sup>6</sup>

<sup>1</sup> Quotas are in metric tons.

<sup>2</sup> Quotas to be fished by vessels from Estonia, Latvia, Lithuania and the Russian Federation. The provisions of Part I, Section A.3 of the NAFO Conservation and Enforcement Measures shall apply.

<sup>3</sup> The opening date for the squid (Illex) fishery is 1 July.

<sup>4</sup> Any quota listed for squid may be increased by a transfer from any "coastal state" as defined in Article 1, para. 3 of the NAFO Convention, provided that the TAC for squid is not exceeded. Transfers made to Contracting Parties conducting fisheries for squid in the Regulatory Area shall be reported to the Executive Secretary, and the report shall be made as promptly as possible.

<sup>5</sup> Not Specified because the allocations to these Contracting Parties are as yet undetermined, although their sum shall not exceed the difference between the total of allocations to other Contracting Parties and the TAC.

<sup>6</sup> The TAC would remain at 150 000 tons subject to adjustment where warranted by scientific advice.

## Annex 5. List of Decisions and Actions by the General Council (14th Annual Meeting; 14-18 September 1992)

Substantive issue (propositions/motions)	Decision/Action (GC Doc. 92/3; item)
1. Report of the 13th Annual Meeting, Sept 1991; GC Doc. 91/7	adopted (item 2.1)
2. Report of the fourth Meeting of STACFAC; April 1992; GC Doc. 92/1	adopted (item 4.1)
3. Rules of Procedure for the General Council; seconding of motions (by Executive Secretary)	discussed (at STACFAD); deferred - no commitment (item 2.3)
4. Provision of fisheries data (request from the Scientific Council)	discussed (at STACFAD); accepted - commitment to abide by Rules (item 2.4)
5. Amendment of the NAFO Convention; Article XII (by Canada)	discussed; deferred (item 2.2)
6. New Membership: Estonia, Latvia, Lithuania	reviewed; determined (item 2.5)
7. NAFO Headquarters Accommodations for the Scientific Council Meetings - to hold the June 1993 Scientific Council Meeting at NAFO Headquarters	discussed (at STACFAD);  approved (item 2.6; item 5.1)
8. Report of STACFAC at the 14th Meeting - interim STACFAC Meeting	adopted; to call in March-April, 1993 (item 4.6)
9. Report of STACFAD at the 14th Meeting - Auditor's Report - Accumulated Surplus Account - Romania's uncollectible debt for 1993	adopted; (item 5.1) adopted; \$75,000.00; to write off and send a letter to Romanian authorities
- Hiring of an additional staff member for the NAFO Secretariat (Hail System)	should not be considered at this time due to budgetary concerns
- Meeting dates for 1994	to consider at the Annual Meeting in 1993
10. Budget for 1993 - addition to the budget for "external expertise" - catches for Estonia, Latvia, and Lithuania to calculate budget for 1993	adopted (item 5.1)  \$ 5,000.00 (item 5.3)  agreed: no catches in 1990 (item 5.4)



## PART II

(pages 49-118)

### Activities of the Fisheries Commission in 1992

#### List of Meetings

The following meetings were held under the authority of the Fisheries Commission:

- Standing Committee on International Control (STACTIC); 18-20 February, Eigtveds Pakhus, Copenhagen, Denmark.
- STACTIC Working Group; 28-29 April, NAFO Headquarters, Dartmouth, Nova Scotia, Canada.
- Fisheries Commission (Special Meeting); 11-14 May, Holiday Inn, Dartmouth, Nova Scotia, Canada.
- STACTIC (Special Meeting); 21-24 July, Eigtveds Pakhus, Copenhagen, Denmark.
- Fisheries Commission and STACTIC Meetings at the 14th Annual Meeting; 14-18 September, Holiday Inn, Dartmouth, N.S., Canada.



## Major Documents of the Fisheries Commission in 1992

Serial No.	FC Doc. No.	Title
N2045	92/1	Report of the Meeting of the Standing Committee on International Control (STACTIC), Copenhagen, Denmark, 18-20 February 1992
N2142	92/2	Report of STACTIC Working Group Meeting, NAFO Hail System, Dartmouth, N. S., Canada, 28-29 April 1992
N2143	92/3	Report of the Special Meeting of the Fisheries Commission, Dartmouth, N. S., Canada, 11-14 May 1992
N2144	92/4	Report of the Special Meeting of the Standing Committee on International Control (STACTIC), Copenhagen, Denmark, 21-24 July 1992
N2147	92/5	1991 Canadian Report on Surveillance Activities and Inspections in the Regulatory Area
N2148	92/6	Amendment to the NAFO Conservation and Enforcement Measures regarding observations by inspectors of incidental by-catches in excess of prescribed limits
N2149	92/7	Amendment to the NAFO Conservation and Enforcement Measures regarding action by Contracting Parties to prevent infringements of the measures by their vessels
N2150	92/8	Amendment to the NAFO Conservation and Enforcement Measures referring to production logbooks and stowage plans
N2151	92/9	Amendment to STACTIC Form 1 (09/83), STACTIC form 2A (09/83) and STACTIC form 2B (09/83), used for annual reports by Contracting Parties of inspections, apparent infringements and their disposition

N2152	92/10	Amendment to the NAFO Conservation and Enforcement Measures to regulate the mesh size of nets on board vessels operating in the Regulatory Area
N2153	92/11	Amendment to the NAFO Conservation and Enforcement Measures regarding definition of an inspection party
N2154	92/12	Amendment to the NAFO Conservation and Enforcement Measures re new item "E-Other Measures"
N2155	92/13	Amendment to the NAFO Conservation and Enforcement Measures on a pilot project for a NAFO observer scheme
N2156	92/14	Amendment to the NAFO Conservation and Enforcement Measures in respect of minimum mesh sizes for groundfish fisheries in the Regulatory Area
N2157	92/15	Amendment to the NAFO Conservation and Enforcement Measures on minimum fish size
N2158	92/16	Annual return of surveillance information in compliance with the hail system (STACTIC Form 2C and 2D)
N2160	92/17	Fisheries Commission's Request for Scientific Advice on Management in 1994 of Certain Stocks in Subareas 3 and 4
N2161	92/18	Information on inspections, apparent infringements, and the status of their disposition, 1991
N2162	92/19	Report of the Fisheries Commission, 14th Annual Meeting, Dartmouth, N. S., Canada, 14-18 September 1992
N2164	92/20	Determination of the optimum volume and funding of scientific research in the NAFO Regulatory Area
N2165	92/21	NAFO Conservation and Enforcement Measures

## Meeting of the Standing Committee on International Control (STACTIC)

The Meeting of STACTIC, under the chairmanship of E. Lemche (Denmark) was hosted by the Government of Denmark (in respect of the Faroe Islands and Greenland) and held at Eigtveds Pakhus, Copenhagen, Denmark, 18-20 February 1992. Full proceedings of the Meeting are presented in FC Doc. 92/1. Representatives of the following Contracting Parties were present: Canada, Denmark (in respect of the Faroe Islands and Greenland), European Economic Community (EEC), Japan, Norway, Poland, and Russia (Annex 1).

R. J. Prier (Canada) was appointed Rapporteur. The Agenda was adopted as circulated (Annex 2).

### Evaluation of Operation of the Hail System

For proposed assessment methodology, the meeting recommended the Contracting Parties should submit written reports on their assessments by the upcoming September meeting.

For incorporation of a catch reporting feature into the hail system lengthy discussions were held through the meeting based on Canadian proposal to incorporate a catch report in all hail reports and Japanese proposal to report weekly catches as well as entry/exit of Regulatory Area cumulative round weight catches. Agreement was reached to present both proposals to the Fisheries Commission.

Reports on operation of the hail system had not been presented to the Meeting as the system itself operated only for a short time, 1-1/2 months. The Executive Secretary reported the greatest number of messages came from the EEC followed by the Faroe Islands and Japan; some messages were being received with incomplete data which required further clarification with the senders.

The hail message format for transmissions by fax or by radio was finalized and recommended for adoption by the Fisheries Commission.

### Implementation of the Hail System by the NAFO Secretariat - Administration and Costs

The report was presented to STACTIC by the Executive Secretary outlining practical and principal requirements for management of the system through the NAFO Secretariat. The Committee recommended to call a working group at NAFO Headquarters with the task to develop the terms of reference for technical requirements and performance of a hail system. The terms would be dispatched to the Contracting Parties for their decision. The delegates agreed that the major requirement for any system used by the NAFO Secretariat would be its compatibility with system used by the Contracting Parties.

### Amendments to the NAFO Conservation and Enforcement Measures

The following proposals for amendment of the Conservation and Enforcement Measures tabled by Canada and other representatives were discussed during the Meeting:

Limits on catches of regulated species in fisheries for unregulated species in nets hauled in the presence of an inspector; Composition of an inspection party; Introduction of production logbooks.

The modified proposals were annexed to the Committee's report and forwarded to the Fisheries Commission.

### **Modifications to NAFO Forms**

The following modifications were considered: Monthly Catch Report Forms - inclusion of additional stocks and divisions; Annual Return of Inspections and Apparent Infringements; Annual Reports on Surveillance and Inspection Activities in the Regulatory Area - air surveillance reports.

The first two proposals were deferred to the Fisheries Commission due to different opinions of the Contracting Parties. The form of an air surveillance report presented by the Executive Secretary was accepted by the Committee subject to further adoption by the Fisheries Commission.

### **Information from IMO on Helicopter Signals - Report from Executive Secretary**

Information was provided by the Executive Secretary to the meeting that IMO confirmed that the NAFO signals used for helicopter-vessel hoist procedure and communication are current and are appropriate to continue to use in the NAFO inspection scheme. This was agreed by the Committee.

### **Implementation of "Long-Term" Measures**

The discussions were centered around three major items:

- an electronic tracking (monitoring) system;
- an international observer scheme;
- a NAFO licensing system.

For the electronic tracking system, the delegations exchanged preliminary information on the possibility of some systems which could be used, however without any commitment of practical deliberations. The decision was to keep this item on STACTIC Agenda in future.

For the international observer scheme, very substantial deliberations took place based on the Canadian proposal. The major concerns were noted with regard to a would be dual role of observers (scientific and enforcement), a lack of experience in the high seas for this type of business, national and international legal issues, and the expected costs of the scheme.

The Committee decided to recommend the Fisheries Commission to ask the Scientific Council for clarification on united scientific and enforcement requirements for observers and presented the proposals (from Canada and the STACTIC Chairman) to the Fisheries Commission.

For the NAFO licensing system there was a general agreement (in principle) that there should be a balance between quota and fishing capacity of the Contracting Party vessels in the Regulatory Area. Some delegations disagreed on the implementation and methodology to

establish a balance of fishing vessels to their national allocations. The general agreement was reached that the Contracting Parties would develop and present their papers on the subject to the Executive Secretary by 15 July 1992.

#### Other Matters

The Committee considered two issues - minimum cod size and the Canadian proposal for reciprocal arrest. The possibility of introduction of a minimum commercial cod size in the Regulatory Area was discussed and some reservations were expressed with regard of discard of undersized fish. The question was further referred to the Fisheries Commission. With respect of the proposal for reciprocal arrest arrangements between interested Parties, the Canadian representative explained this item was for information purposes only.

The Chairman asked that a rule of procedure be adopted by STACTIC which would require an advance distribution of proposals scheduled for discussion at the upcoming meetings. This item should be discussed at the next meeting

The meeting was adjourned at 1500 hours, 20 February 1992.

## Annex 1. List of Participants

### Meeting of the Standing Committee on International Control (STACTIC)

Copenhagen, Denmark

18-20 February 1992

#### CANADA

**Head of Delegation:** C. J. Allen, Fisheries Operations, Dept of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6

B. E. Armstrong, NEX/External Affairs, International Trade, 125 Sussex Drive, Ottawa, Ontario K1A 0G2

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R. J. Prier, Dept of Fisheries and Oceans, P. O. Box 550, Halifax, Nova Scotia B3J 2S7

G. R. Traverse, Dept of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1

E. Wiseman, Fisheries Counsellor, Mission of Canada to the European Communities, 2 Av. de Tervuren, 1040 Brussels, Belgium

#### DENMARK (IN RESPECT OF THE FAROE ISLANDS AND GREENLAND)

**Head of Delegation:** K. P. Mortensen, Foroya Landsstyri, P. O. Box 87, FR-110 Torshavn, Faroe Islands

H. Fischer, Ministry of Foreign Affairs, Division OEP.4, Asiatisk Plads 2, DK-1448 Copenhagen, Denmark

E. Lemche, Director, Groenlands Hjemmestyre, Pilestraede 52, Box 2151, DK-1016, Copenhagen, Denmark

T. Pedersen, Fiskerilicenskontrollen, P. O. Box 501, 3900 Nuuk, Greenland

#### EUROPEAN ECONOMIC COMMUNITY (EEC)

**Head of Delegation:** P. Curran, Commission of the European Communities, Rue Joseph II 99, 1049 Brussels, Belgium

D. Dunkley, Commission of the European Communities, Rue Joseph II 99, 7/24, 1049 Brussels, Belgium

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N. P. F. Bollen, Fisheries Dept., Nature Management and Fisheries, 73 Bezuidenhoutseweg, P. O. 20401, 2500 EK, The Hague, Netherlands

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G. T. Conrad, Bundesministerium fur Ernährung, Landwirtschaft und Forsten, Rochusstr. 1, 53 Bonn, Germany

E. P. de Brito, Direccao Geral Pescas, Av. Brasilia, 1400 Lisbon, Portugal

J. Navarro, Secretaria General de Pesca Maritima, Ortega y Gasset, 57, Madrid 28006, Spain

P. J. Ogden, Ministry of Agriculture, Fisheries and Food, 17 Smith Square, London SW1P 2JR, United Kingdom

#### JAPAN

**Head of Delegation:** K. Hanafusa, Deputy Director, International Affairs Div., Fisheries Agency, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo

T. Ohno, First Secretary, Japanese Embassy, Pilestraede 61, 1112 Copenhagen K, Denmark

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**NORWAY**

**Head of Delegation:** T. Konow, Fiskeridirektoratet, Strandgaten 229, 5002 Bergen

**POLAND**

**Head of Delegation:** A. S. Majewicz, Ministry of Transport and Maritime Economy, Sea Fisheries Dept.4/6  
Chatubinskiego Str., 00-928 Warszawa

**RUSSIAN FEDERATION**

**Head of Delegation:** V. Tsukalov, Fisheries Committee of Russian Federation, 12 Rozhdestvensky Boul., Moscow K-45

V. Fedorenko, Fisheries Committee of Russian Federation, 12 Rozhdestvensky Boul., Moscow K-45

E. V. Kichnev, Sevryba, S. Perovskoy St. 2, Murmansk

V. Torokhov, Sevryba, S. Perovskoy St. 2, Murmansk

**SECRETARIAT**

Dr. L. I. Chepel, NAFO Executive Secretary

B. Cruikshank, Senior Secretary

**SECRETARIAT ASSISTANCE**

Susan Frydendahl, Groenlands Hjemmestyre, Pilestræde 52, Box 2151, DK-1016, Copenhagen, Denmark

## Annex 2. Agenda

### Meeting of the Standing Committee on International Control (STACTIC)

Copenhagen, Denmark  
18-20 February 1992

1. Opening by Chairman, E. Lemche (Denmark in respect of the Faroe Islands and Greenland)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Evaluation of Operation of the Hail System:
  - a) proposed assessment methodology (proposal by Canada)
  - b) incorporation of a catch reporting feature into the hail system (STACTIC Report, 1991, items 5.6-5.12)
  - c) reports on operation of the hail system as of February 1992 (national reports or information)
  - d) finalization of hail message format(s) for transmission by fax or by radio (STACTIC Report, 1991, item 5.20)
5. Implementation of the Hail System by the NAFO Secretariat - Administration and Costs - Report from the Executive Secretary
6. Amendments to the Conservation and Enforcement Measures:
  - a) limits on catches of regulated species in fisheries for unregulated species in nets hauled in the presence of an inspector (STACTIC Report, 1991, item 5.14)
  - b) composition of an inspection party (STACTIC Report, 1991, item 5.15)
  - c) identification of NAFO inspectors operating from an aircraft (STACTIC Report, 1991, item 5.21)
  - d) finalization of the format for reports on air surveillance activities (STACTIC Report, 1991, item 5.17)
  - e) introduction of production logbooks (STACTIC Report, 1991, item 5.12)

7. Modifications to NAFO forms:
  - a) Monthly Catch Report Forms - inclusion of additional stocks and divisions (proposal by Canada)
  - b) Annual Return of Inspections and Apparent Infringements (proposal by Canada)
  - c) Annual Reports on Surveillance and Inspection Activities in the Regulatory Area - inclusion of air surveillance reports (STACTIC Working Group Working Paper 91/15)
8. Information from IMO on helicopter signals - Report from Executive Secretary (STACTIC Report, 1991, item 5.18)
9. Implementation of "Long Term" Measures:
  - a) An electronic tracking (monitoring) system (STACTIC Report, 1991, items 6.1-6.3)
  - b) An international observer scheme (STACTIC Report, 1991, items 6.4-6.10)
  - c) A NAFO Licensing System
10. Other Matters
11. Time and Place of Next Meeting
12. Adjournment



## Meeting of STACTIC Working Group on the NAFO Hail System

The meeting was held at NAFO Headquarters in Dartmouth, Nova Scotia, Canada on 28-29 April 1992. Full Proceedings of this Meeting are presented in FC Doc. 92/2 and in a separate edition of Meeting Proceedings of the General Council and the Fisheries Commission for 1992.

The following Contracting Parties were present: Canada, European Economic Community (EEC), Japan, and Russia (Annex 1).

The Executive Secretary was appointed Chairman and L. Strowbridge (Canada), Rapporteur.

The Agenda was adopted as circulated (Annex 2).

### Elaboration of Terms of Reference for a Communication Study

The delegates exchanged views on the documents presented by Canada and EEC. Agreement was reached on a paper that generally represents the definition of requirements for an automated hail system. The importance of ensuring security and confidentiality of all data was especially noted. The discussions of the automated hail system were limited to the provisions of the current Conservation and Enforcement Measures.

The Working Group recommended to implement a pilot project to test data exchange capabilities between Contracting Parties and the NAFO Secretariat, and this project would include participation of at least two (2) Contracting Parties (Canada and EEC). The costs associated with the project should not exceed \$40 000 Cdn assuming that Contracting Parties have available hardware to accept the genetic software. To minimize costs associated with the pilot project, the EEC and Canada agreed to utilize existing personnel/resources (including consulting services from Canada) to assist the NAFO Secretariat in purchasing a computer modem and developing software. A course of action and deadline of 15 August 1992 for presentation of requests to/from potential contractors to develop an automated system was recommended.

(Note): At the Fisheries Commission Special Meeting on 11-14 May 1992, the Contracting Parties resolved to postpone any actions or decisions on the Working Group recommendations until the upcoming Annual Meeting in September 1992.

The meeting was adjourned at 1100 hours, 29 April 1992.

## Annex 1. List of Participants

### Meeting of STACTIC Working Group on the NAFO Hail System

Dartmouth, Nova Scotia, Canada

28-29 April 1992

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L. I. Chepel, NAFO Executive Secretary (Chair)

T. Amaratunga, Assistant Executive Secretary

## Annex 2. Agenda

### Meeting of STACTIC Working Group on the NAFO Hail System

Dartmouth, Nova Scotia, Canada

28-29 April 1992

1. Opening by the Executive Secretary
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Elaboration of terms of reference for a Communication Study to recommend a compatible system for the NAFO Secretariat and Contracting Parties:
  - 4.1 Presentation and discussion of Contracting Parties' papers/proposals
  - 4.2 Recommendation of a compatible system architecture with its cost approximation
5. Recommendation of deadlines for presentation of requests to/from potential contractors
6. Adoption of a final report to STACTIC and Fisheries Commission
7. Other matters
8. Adjournment





## Special Meeting of the Fisheries Commission

The Special Meeting of the Fisheries Commission was held during 11-14 May 1992, at the Holiday Inn, Dartmouth, Nova Scotia, Canada. Full proceedings of this Meeting are presented in FC Doc. 92/3. The Special Meeting was called by the Chairman upon the request of Canada in accordance with provisions of Article XIII.5 of the NAFO Convention. The Commission decided not to call a STACTIC meeting at this time.

### Opening of the Meeting (Agenda items 1-5)

The Meeting was governed by the Chairman, E. Wiseman (Canada). E. Mundell (Canada) was appointed Rapporteur. The following members of the Fisheries Commission were in attendance: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), European Economic Community (EEC), Japan, Norway, Poland and Russia (Annex 1). The only Party absent was Bulgaria. The representatives of Estonia, Latvia, Lithuania, and United States of American were attending as observers.

Under the item "Adoption of Agenda", the delegations exchanged their opinions in general terms with respect of management and conservation in the Regulatory Area. The Agenda was adopted (Annex 2). It was agreed that the representative of Canada would introduce all of Canada's proposals (items 6 through 11) and then substantive discussions would be ensued throughout the Meeting. The majority of delegations were concerned that due to the importance of the proposals presented by Canada for new amendments to the NAFO Conservation and Enforcement Measures, there would not be enough time or authority for some delegations to agree upon the proposals at this Meeting and that a special meeting of STACTIC would be required for technical deliberations.

### International Observer Program (Agenda item 6)

The representatives of Contracting Parties discussed this item based on the Canadian proposal which provided that observers should be placed on board of vessels fishing in the NAFO Regulatory Area and those observers could monitor compliance with the provisions of the NAFO Conservation and Enforcement Measures and provide sampling for use by the Scientific Council.

The major concerns were noted as follows: the proposal should not prejudice the decision of the Fisheries Commission on an observer program in the Regulatory Area after conclusion of the pilot project; defining the role and responsibilities of the observer reports was of key importance and required further consideration; the observer program should cover the whole range of the stocks and fisheries, not merely the portion in the Regulatory Area; observers should not perform technical/scientific functions unless approved by the Contracting Party authorities of the vessel concerned or agreed bilaterally; proposed technical/scientific functions are secondary to that of monitoring compliance with Conservation and Enforcement Measures; fishing effort could be measured as days on ground, number of fishing vessels, fishing power; Contracting Parties sending observers should pay all costs unless other arrangements are agreed bilaterally (similar to funding of inspection activities); costs of observers should be funded from the NAFO budget; reciprocal or bilateral exchanges of observers should be undertaken in accordance with bilateral agreements; observers should report at bi-monthly intervals rather than weekly which would be too frequent.

The Commission agreed on the text of the proposal of the "Pilot Project of NAFO Observer Scheme" to refer for final determination at the Annual Meeting in September 1992.

#### **Incorporation of a Catch Reporting Feature into the Hail System (Agenda item 7)**

The Canadian proposal provided for hail reports of catches within the hail system as a cost effective way for Contracting Parties to monitor catches by their vessels. Some Contracting Parties expressed their reservations due to the quota monitoring responsibilities for their nationals. As the result of the discussions, the final text of the proposal was developed for final determination at the upcoming Annual Meeting in September 1992. The technicalities re costs, unit of measurements, communication routes, etc. were referred to STACTIC.

#### **Production Logbooks ( Agenda item 8)**

The Canadian proposal was thoroughly discussed at the Commission emphasizing on two options - to carry a production logbook or/and a stowage plan of fish production. The concerns were expressed re safety of vessels (for stowage plans) and confidentiality of commercial information on vessel production. Final agreement was noted on the text of the proposal and a number of technical questions were referred to the upcoming STACTIC meeting.

#### **Action by Contracting Parties to Prevent Infringements of the Measures by Their Vessels (Agenda item 9)**

The Canadian proposal was discussed and modified by the amendments from the floor. The text of the proposal was referred for final determination at the Annual Meeting in September 1992.

#### **Development of Fishing Plans for Vessels Operating in the Regulatory Area (Agenda item 10)**

The representative of Canada explained its proposal as a request/forecast of fishing activity possibly at the beginning of the year and again six months later to reflect possible changes. The major concern of some Contracting Parties was that fishing patterns of their vessels would make it difficult to prepare fishing plans, and that the principle of Contracting Party competence for management of fishing effort had to be respected. The proposal was modified (by amendments of Denmark and EEC) and agreed by the Commission as the final text for consideration at the upcoming Annual Meeting.

#### **Incidental Catch Limits (Agenda item 11a)**

Discussions ensued on implementation of a unified mesh size in the Regulatory Area regardless of material and a formulation of request for the Scientific Council. The final text of the request was approved as follows: "In addition to the request in paragraph 9 of NAFO FC Doc. 91/10 on a standard 130 mm mesh size, the Scientific Council is asked to evaluate the effect of introducing one uniform mesh size, irrespective of material, thus deleting note 2 in Part V-Schedule IV of the NAFO Conservation and Enforcement Measures". With regard to a standard mesh size, one Contracting Party expressed concern with the mesh size for redfish.

The following text of proposal for further consideration at STACTIC and Fisheries Commission was approved by the Meeting: Amendment to NAFO Conservation and Enforcement Measures regarding observations by inspectors of incidental by-catches in excess of prescribed limits - Part II.B.3 Mesh Size - New sub-paragraph 3(c): "If, in fisheries conducted with nets having mesh sizes less than those specified in paragraph 2, an inspector observes in nets hauled in his/her presence incidental catches in excess of 10 per cent for each species listed in Schedule I, he/she shall record this fact in the Inspection Report and shall remind the Master of the vessel not to continue fishing in the area after the fish on board exceeds the incidental catch limits specified in Part II.B.3 (a) the inspector may also recommend in the Inspection Report an investigation by the vessel's Contracting Party authorities."

#### **Recording of Catches (Agenda item 11b)**

It was agreed that the provisions of the Conservation and Enforcement Measures provided the Contracting Parties have to record and report all catches (Part I.C) The meeting emphasized the Contracting Parties should report all catches and Executive Secretary should provide the catch information to all Contracting Parties.

(Note by the Executive Secretary): All monthly catch reports have been dispatched to all Contracting Parties in a new format of a circular letter since 1992.

#### **Modification to Forms (Agenda item 11c)**

The meeting agreed on the Canadian proposal for a new format of Annual Return of Inspections, Catch record discrepancies and apparent infringements (Forms A and B), which would be formally adopted at the Annual Meeting in September 1992.

#### **Inspection Party and Identification of Inspectors (Agenda item 11d)**

The Canadian proposal to introduce a new category "inspection trainee" to an inspection party was accepted as modified (by Russia) by the meeting for final determination at the upcoming Annual Meeting in September 1992. The category of "NAFO Inspection Trainees" would be incorporated in the Conservation and Enforcement Measures, Part IV.

#### **Operation of the Hail System (Agenda item 12)**

The representatives of Contracting Parties expressed their concern regarding the routing of hail messages. It was decided to consider at the Annual Meeting in September 1992 an amendment to Part III.E.1 of the Conservation and Enforcement Measures as follows: "A Contracting Party shall ensure that vessels of that Party to which the Scheme of Joint International Inspection applies shall report to their competent authorities *or to the NAFO Secretariat if the Contracting Party so desires*".

#### **Implementation of the Hail System by the NAFO Secretariat (Agenda item 13)**

The Executive Secretary reported the results of the Meeting of STACTIC Working Group in April 1992 (see above) and noted that the group recommended a two-phase approach, comprising of a pilot project to test a computer communication system involving at least two Contracting

Parties. Canada and EEC have expressed their willingness to contribute resources for implementation of the system.

The representatives at the meeting agreed that more time was needed to consider the working group report and it would be reviewed at the upcoming Annual Meeting.

#### **Use of Electronic Tracking (monitoring) System (Agenda item 14)**

Brief discussions developed on value and feasibility of implementation of an electronic tracking system. The Contracting Parties (Canada, EEC, Norway) presented very limited information on the subject as any such system was in an experimental mode. The meeting agreed to continue to study this issue without any immediate commitment.

#### **Financing Inspection Vessel Activities in the Regulatory Area (Agenda item 15)**

The meeting considered the Russian proposal aimed at a yearly plan being prepared for inspection in the Regulatory Area to be funded from NAFO budget and the costs to be shared equally by all Contracting Parties. The estimated costs of inspection activity would be approximately \$15 million Cdn. annually, excluding aircraft. The representatives noted that this amount of contributions through NAFO would cause a great burden for some Contracting Parties and its implementation would require amendment to the NAFO Convention, Article XVI, which provides a formula for contributions. The meeting agreed to refer this proposal to STACTIC for further technical consideration.

#### **Other Measures to Improve the Effectiveness of NAFO (Agenda item 16)**

The representative of Canada explained that Canada intended to table a proposal regarding dispute settlement procedures at NAFO to be considered at the upcoming *Annual Meeting* in September 1992 and this forthcoming proposal would involve an amendment to the NAFO Convention.

The representatives of Contracting Parties asked Canada to present an official request to the General Council as well, the text of the proposal well in advance of the Annual Meeting to ensure internal discussions.

In addition, the meeting requested the Executive Secretary to prepare and table at the Annual Meeting a draft text for amendment of the Rules of Procedure regarding presentation of proposals to meetings.

#### **Competence to call Intersessional STACTIC Meetings (Agenda item 17a)**

The Executive Secretary presented his paper explaining the following:

STACTIC was established in accordance with provisions of Article XIII.6 of the NAFO Convention as a subsidiary body of the Fisheries Commission. In such status STACTIC does not have an independent existence and is directly responsible to the Fisheries Commission which responsibilities are discharged by the following actions:

- any meeting of STACTIC is subject to decision and competence of the Fisheries Commission including terms of reference (tasks), dates and place of meeting;
- reports of STACTIC should be presented to the Fisheries Commission for its approval (adoption, acceptance, rejection, returning).

The meeting agreed that this matter would be discussed further between the Chairman of the Fisheries Commission, Chairman of STACTIC and the Executive Secretary.

**Minimum Cod Size, Minimum Mesh Size, and  
Minimum Flatfish Size (Agenda items 17, b,c,e)**

There was no further discussion as the meeting agreed to wait the advice of the Scientific Council.

**Financing of NAFO Scientific Work in  
the Regulatory Area (Agenda item 17d)**

The representative of Russia tabled his paper aimed to determine the optimum level of scientific research in the Regulatory Area and its funding. This proposal requested the Scientific Council to advise on the volume of scientific work necessary to set TAC and proposed STACFAD establish a scientific research fund. As the result of discussions the meeting agreed to reopen its deliberations on the subject at the September Annual Meeting based on the Russian proposal as modified by Canada.

**Special Meeting of STACTIC**

The Fisheries Commission decided that a Special Meeting of STACTIC be called, to consider the outstanding issues referred to STACTIC in Terms of Reference (Annex 3). The meeting will take place in Copenhagen through 21-24 July 1992.

The Special Meeting of the Fisheries Commission was adjourned at 1850 hours, 14 May 1992.

## Annex 1. List of Participants

### Special Meeting of the Fisheries Commission

Dartmouth, Nova Scotia, Canada

11-14 May 1992

#### CANADA

**Head of Delegation:** B. Rawson, Deputy Minister, Dept of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6

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## Annex 2. Agenda

### Special Meeting of the Fisheries Commission

Dartmouth, Nova Scotia, Canada

11-14 May 1992

1. Opening by Chairman, E. Wiseman (Canada)
2. Appointment of Rapporteur
3. Admission of Observers
4. Publicity
5. Adoption of Agenda
6. International Observer Program
7. Incorporation of a catch reporting feature into the hail system
8. Production logbooks
9. Action by Contracting Parties to prevent infringements of the Measures by their vessels
10. Development of Fishing Plans for vessels operating in the Regulatory Area
11. Amendments to the NAFO Conservation and Enforcement Measures
  - a) incidental catch limits
  - b) recording of catches
  - c) modifications to forms
  - d) Inspection Party and identification of inspectors
12. Operation of the hail system
13. Implementation of the hail system by the NAFO Secretariat - administration and costs
14. Use of electronic tracking (monitoring system)
15. Financing the inspection vessels activities in the Regulatory Area
16. Other measures to improve effectiveness of NAFO
17. Other matters
  - a) Competence to call intersessional STACTIC meetings
  - b) minimum cod size

- c) minimum mesh size in the Regulatory Area
- d) financing of NAFO scientific work in the Regulatory Area
- e) minimum flatfish size

18. Adjournment

### Annex 3. Request to STACTIC

The Fisheries Commission requests STACTIC to address the following questions at a special meeting to be called in advance of the 14th Annual Meeting of NAFO and to report the results to the Fisheries Commission:

1. If the Fisheries Commission were to adopt a pilot project for a NAFO observer scheme for a sufficient period starting on 1 January 1993,

What would be the role and duties of observers within the scheme?

What would be the operational procedures for deploying and removing observers from the fishing vessels?

What training and equipment would be required for the observers?

What would be the rights and obligations of the master of the fishing vessel?

What would be the format, contents and frequency of reports and to whom should such reports be addressed?

What would be the technical problems and solutions associated with implementation of such a scheme?

What would be the estimated costs of such a scheme?

The questions above should be answered with respect to a pilot observer scheme. If any other proposal addressing the same concerns is forwarded to the Executive Secretary by 01 July 1992, the relevant questions should be answered in respect of such a proposal.

2. If the Fisheries Commission were to decide to *incorporate a catch reporting feature* into the hail system,

Would the technical effectiveness of the hail system be improved by the incorporation of catch reports?

Taking into account the particular communication problems of long-distance fleets and with a view to minimize costs and time, what would be the form and content of messages to be sent?

What would be the appropriate timing and frequency of catch reports?

What is the least costly and expedient way for the NAFO Secretariat to make the hail information available to inspection vessels present in the Regulatory Area?

What would be the technical problems and solutions associated with implementation of such a decision?

What would be the estimated costs of such a decision?

3. If the Fisheries Commission were to approve the introduction and inspection of production logbooks or stowage plans,

In particular, what guidelines would be needed to maintain safety on production decks and in the hold of the fishing vessel?

What would be the technical problems and solutions associated with implementation of such a decision?

What would be the estimated costs of such a decision?

4. If the Fisheries Commission were to introduce one uniform mesh size, irrespective of material,

What practical and economic effect would this have for the fishing fleets in the Regulatory Area?

How would this affect the work of the inspectors?

5. If the Fisheries Commission were to permit inspection trainees to accompany inspection parties,

What guidelines should be established for the conduct of the trainee while he or she is on board the vessel?

6. If the Fisheries Commission were to approve a program to coordinate and fund inspection activities in the NAFO Regulatory Area,

What is the extent and what are the costs currently incurred by the Contracting Parties for control and inspection in the Regulatory Area?

What would be the appropriate number of inspectors, vessels, helicopters, other aircraft and other means needed for rational and effective control and inspection in the Regulatory Area in a given year, and what would be the estimated cost of these activities?

What would be the design of a coordinated plan for control and inspection by Contracting Parties in the Regulatory Area, taking into account the provisions of Part IV, para 13 of the NAFO Conservation and Enforcement Measures?

What would be the costs of this program?

The Fisheries Commission also requests STACTIC to summarize and comment on papers to be provided by Contracting Parties by 15 July 1992 setting out the methodology, benefits and other implications of effort management systems in order to match fishing effort with available fishing opportunities.

STACTIC will submit its findings and recommendations to the Fisheries Commission no less than thirty days prior to the 14th Annual Meeting of NAFO.



## Special Meeting of STACTIC

The meeting of STACTIC under the chairmanship of E. Lemche (Denmark) was hosted by the Government of Denmark (in respect of the Faroe Islands and Greenland) and held at Eigtveds Pakhus, Copenhagen, Denmark, 21-24 July 1992. Full proceedings of this meeting are presented in FC Doc. 92/4. Representatives of the following Contracting Parties were present: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), European Economic Community (EEC), Japan, Norway, and Russia (Annex 1).

R. J. Prier (Canada) was appointed Rapporteur. The Agenda was adopted as amended (Annex 2).

### Pilot Project of NAFO Observer Scheme

The Committee agreed on the basic responses for the Fisheries Commission based on proposals from Canada and the EEC. In addition, the representatives of Contracting Parties noted that the observers main task would be to record the level of compliance with current Conservation and Enforcement Measures and their duties would not duplicate those of NAFO inspectors; the final reports of observers be directed only to the competent authority sponsoring the observer and then, after its review, presented to the Fisheries Commission. Some representatives supported more broad duties for observers to take action to reduce infringements of the Conservation and Enforcement Measures and that observers would make interim reports while at sea to transmit to the Contracting Parties with an inspection presence in the Regulatory Area.

### Incorporation of a Catch Reporting Feature into the Hail System

Agreement was reached on the basic responses for the Fisheries Commission based on proposals from Canada and the EEC.

Reservations were expressed by Russia that effectiveness of a new feature might be done only upon assessment of the hail system itself and by the EEC, that quota management and monitoring of quotas are the exclusive competence of the Contracting Parties.

### Introduction of Production Logbooks or Stowage Plans; Introduction of One Uniform Mesh Size, Irrespective of Material; Permit for Inspection Trainees to Accompany Inspection Parties

All the above-mentioned Agenda items were discussed and agreement was reached on the basic responses for the Fisheries Commission.

### Program to Coordinate and Fund Inspection Activities in the Regulatory Area

Papers were presented from Canada, Denmark (in respect of the Faroe Islands and Greenland), EEC, and Russia. After discussions, agreement was reached on the basic responses for the Fisheries Commission. One more Contracting Party indicated its intention to provide air

surveillance in the Regulatory Area. One Contracting Party expressed its concern about a cost sharing of air surveillance among Contracting Parties.

#### **Reports on Methodology**

The meeting agreed not to summarize or comment on reports received from all delegations present setting out the methodology, benefits and other implications of effort management systems in order to match fishing effort with available fishing opportunities.

The Committee adopted its Report for the current meeting.

The meeting adjourned at 1520 hours, 24 July 1992.



## Annex 1. List of Participants

### Special Meeting of the Standing Committee on International Control (STACTIC)

Copenhagen, Denmark

21-24 July 1992

#### CANADA

**Head of Delegation:** L. Forand, Director, Atlantic Div., Dept of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6

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- E. A. Mundell, International Fisheries Directorate, Dept of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
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#### CUBA

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L. I. Chepel, NAFO Executive Secretary

B. Cruikshank, Senior Secretary

**SECRETARIAT ASSISTANCE**

Susan Frydendahl, Groenlands Hjemmestyre, Pilestræde 52, DK-1016, Copenhagen

## Annex 2. Agenda

### Special Meeting of the Standing Committee on International Control (STACTIC)

Copenhagen, Denmark  
21-24 July 1992

1. Opening by Chairman, E. Lemche (Denmark)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Pilot project of NAFO Observer Scheme
  - 4.1 role and duties of observers within the scheme
  - 4.2 operational procedures for deploying and removing observers from the fishing vessels
  - 4.3 training and equipment for the observers
  - 4.4 rights and obligations of the master of the fishing vessel
  - 4.5 concepts of the observer reports
  - 4.6 technical problems and solutions associated with implementation of the observer scheme
  - 4.7 estimated costs of implementation of the scheme
5. Incorporation of a catch reporting feature into the hail system
  - 5.1 concepts of improvement of the technical effectiveness of the hail system by the incorporation of catch reports
  - 5.2 form and context of messages to be sent taking into account the particular communication problems of long-distance fleets and with a view to minimize costs and time
  - 5.3 timing and frequency of catch reports
  - 5.4 consideration of the least costly and expedient way for the NAFO Secretariat to make the hail information available to inspection vessels present in the Regulatory Area
  - 5.5 technical problems and solutions and estimated costs associated with implementation of the decision to provide information to inspection vessels by the NAFO Secretariat

6. Introduction of production logbooks or stowage plans
  - 6.1 required guidelines to maintain safety on production decks and in the hold of the fishing vessel
  - 6.2 technical problems and solutions associated with implementation of such decision
  - 6.3 estimated costs of such a decision
7. Introduction of one uniform mesh size, irrespective of material
  - 7.1 practical and economical effect for the fishing fleets in the Regulatory Area
  - 7.2 affect on the work of the inspectors
8. Permit for inspection trainees to accompany inspection parties:  
guidelines for the conduct of trainees while they are on board of vessels
9. Program to coordinate and fund inspection activities in the Regulatory Area
  - 9.1 extent and costs currently incurred by the Contracting Parties for control and inspection in the Regulatory Area
  - 9.2 estimates of the appropriate number of inspections, vessels, helicopters, other aircraft and other means needed for rational and effective control and inspection in the Regulatory Area in a given year; estimated cost of these activities
  - 9.3 design of a coordinated plan for control and inspection by Contracting Parties in the Regulatory Area, taking into account the provisions of Part IV, para 13 of the NAFO Conservation and Enforcement Measures
  - 9.4 Costs of the program
10. Adoption of the report of the Special Meeting by STACTIC
11. Summarization of the reports to be provided by Contracting Parties by 15 July 1992 setting out the methodology, benefits and other implications of efforts management systems in order to match fishing effort with available fishing opportunities
12. Other matters
13. Adjournment

## Fisheries Commission Meeting

The Fisheries Commission Meeting including meetings of its subsidiary body - Standing Committee on International Control (STACTIC)- was held during the 14th Annual Meeting on 14-18 September 1992 at the Holiday Inn, Dartmouth, Nova Scotia, Canada. Full proceedings of the meeting are presented in FC Doc. 92/19. This Annual Report presents a brief summary of the most substantial decisions at the Fisheries Commission and STACTIC.

### Opening of the Meeting (Agenda items 1 to 5)

The meeting was called to order by the Chairman, E. Wiseman (Canada) on 14 September 1992 at 1025 hours. Representatives from the following Contracting Parties were present: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, the European Economic Community (EEC), Japan, Latvia, Lithuania, Norway, Poland, and Russia (Annex 1).

The three new member states -Estonia, Latvia, and Lithuania- were invited and admitted to the meeting.

Representatives of the Republic of Korea and the United States of America were admitted to the meeting as observers.

Svend B. Kristensen (EEC) was appointed Rapporteur.

The provisional Agenda was adopted as amended (Annex 2).

The representative of Canada, B. Rawson, made an opening statement emphasizing on the severe decline of the stock of northern cod (Divisions 2J+3KL) that forced Canada to implement a two-year moratorium inside the Canadian zone for that stock. He further noted that based on the Scientific Council report most of the stocks managed by NAFO were overfished and were in general decline, and called for NAFO's support and cooperation to re-build the northern cod stock.

The representative of the EEC, M. Arnal, made his opening statement underlining the alarming state of the stocks in the Regulatory Area and, in particular, the cod stock which is similar to situations for a range of other cod stocks in the North Atlantic. He pointed out that decline of cod stock in Divisions 2J+3KL were caused by environmental as well as overfishing factors, and called on the Fisheries Commission to pursue consistent rational management strategies for the different stocks in the Regulatory Area which the European Community considers as a priority in the framework of its common fishery policy.

### Administrative (Agenda items 6 to 8)

The reports of the 13th Annual Meeting, September 1991 (FC Doc. 91/14) and the Special Meeting of the Fisheries Commission, May 1992 (FC Doc. 92/3) were adopted.

The three new members of NAFO - Estonia, Latvia, and Lithuania - were formally admitted to the Fisheries Commission membership in accordance with provisions of Article III e and Article XIII.1 of the NAFO Convention.

For the item "Clarification of rules of procedure" (presented by the Executive Secretary), the Commission decided to postpone this item pending possible consideration by the General Council in the near future.

### Commission Proposals (Agenda items 9 to 14)

The consolidated text of the Status of Proposals (NAFO Circular Letter 92/49 of 10 July 1992) was circulated to the participants and there were no comments made on this document.

The reports of STACTIC meetings held in February and in July 1992 (FC Doc. 92/1 and FC Doc. 92/3) were adopted.

Under Agenda item 10 "Conservation and Enforcement Measures", the Commission considered amendments to the NAFO Conservation and Enforcement Measures on the basis of the reports of the Special Meeting of the Fisheries Commission (May 1992-FC Doc. 92/3) and Special Meeting of STACTIC (July 1992-FC Doc. 92/4).

The following proposals were adopted by the Commission pursuant to the provisions of Article XI.5 of the NAFO Convention:

- Pilot project for a NAFO Observer Scheme (Annex 3, FC Doc. 92/13);
- Production logbooks (Annex 4, FC Doc. 92/8);
- Action by the Contracting Parties to prevent infringements of the measures by their vessels (Annex 5, FC Doc. 92/7);
- Incidental catch limits (Annex 6, FC Doc. 92/6);
- A uniform mesh size in the Regulatory Area (Annex 7, FC Doc. 92/14 and Annex 8, FC Doc. 92/10);
- STACTIC form of inspection, apparent infringements and their disposition (Annex 9, FC Doc. 92/9);
- Definition of an inspection party (Annex 10, FC Doc. 92/11);
- Minimum fish size (Annex 11, FC Doc. 92/15) (Scientific advice on minimum cod size, and minimum flatfish size in the Regulatory Area);
- Annual return of surveillance information in compliance with the hail system (in FC Doc. 92/1, item 7c) (Annex 12, FC Doc. 92/16)

Following the provisions of Article XI.6 of the NAFO Convention the above listed proposals were dispatched to the Contracting Parties by the Executive Secretary on 22 September 1992 and then became measures binding at the end of the objection period 22 November 1992. From that date the new provisions have been incorporated in the text of the Conservation and Enforcement Measures.

The other substantial proposals discussed at the Commission were disposed as follows:

- "Incorporation of a catch reporting system into the hail system" was decided to defer to the next Annual Meeting of the Commission;
- "Effort plans for the vessels of the Contracting Parties operating in the Regulatory Area" was deferred to the next Annual Meeting of the Commission;
- "Coordination and financing of inspection activity in the Regulatory Area" was accepted by the note on estimates presented by STACTIC;

- "Financing of NAFO's scientific work in the Regulatory Area" was accepted as a request to the Scientific Council to determine the optimum volume of scientific work by each division and stock needed for monitoring and estimation of TACs, as well as work necessary to understand the environmental and ecological factors influencing stock abundance, as well as options for achieving the desired level of research and estimates of cost.

#### **International Control (Agenda items 11 to 14)**

The Fisheries Commission adopted the current report of STACTIC upon presentation by the Chairman of STACTIC, E. Lemche (Denmark in respect of the Faroe Islands and Greenland), who underlined the following points:

- At its 1992 Meeting STACTIC considered the annual returns of infringements as submitted by Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Russia (FC Doc. 92/18). STACTIC also considered Reports on Surveillance and Control by EEC and Canada.
- STACTIC considered "Notification of Fishing Vessels intending to Fish in the Regulatory Area in 1992", and noted that the total number of vessels notified to the NAFO Secretariat was 386. Of these, a total of 114 vessels had sent hail reports. Four vessels had sent hail reports but had not notified the Secretariat. It was noted that Canada had reported for 1991 sightings of a total of 213 vessels from Contracting Parties and 34 from non-Contracting Parties.
- STACTIC also considered the question of nominal catches by Contracting Parties comparing with exceeded 1991 quotas and recommended to the Fisheries Commission that the Executive Secretary be asked to prepare a suitable table prior to each Annual Meeting for consideration and comment by STACTIC at that Annual Meeting.

The Commission agreed to put on the Agenda of the next Annual Meeting (September 1993) the request from EEC regarding the authority of STACTIC to compile statistical information with respect of quotas of Contracting Parties and their catches.

The Report of the STACTIC Working Group on the hail system (FC Doc. 92/2) was adopted.

#### **Conservation (Agenda items 15 to 19)**

The item "Transfer of quotas between Contracting Parties" was deferred for further examination at the next Annual Meeting (September 1993) after a brief discussion at the Commission. The representative of Denmark (in respect of the Faroe Islands and Greenland) pointed out the three management criteria making a negative cumulative impact on small quota allocations - a low "others" quota; a rigid distribution key; the practice of quota transfers. The question of an increased quota for "others" and changing the allocation key would have to be addressed.

**Summary of Scientific Advice by the  
Scientific Council (Agenda item 16)**

The acting Chairman of the Scientific Council, H. Lassen (EEC), presented the Scientific Council recommendations and advice for the stocks managed by NAFO. The Chairman explained that the assessment for some stocks was not of a high quality due to the high level of unreported catches of non-Contracting Parties (approximately 50% or more of NAFO total catches). In these circumstances, it was not possible to have any data from biological sampling although work was going on to provide better estimates.

For a uniform mesh size, irrespective of material, throughout the Regulatory Area, the recommendation was to introduce 130 mm mesh size, and a derogation from this size was only justified for capelin and squid; for redfish the selectivity was uncertain.

The following management advice and TAC(s) for 1993 were presented by the Scientific Council:

Cod 3M	as low as possible TAC
Redfish 3M	20 000 tons
American plaice 3M	2 000 tons
Cod 3NO	10 200 tons
Redfish 3LN	14 000 tons
American plaice 3LNO	10 500 - 14 500 tons
Yellowtail flounder 3LNO	5 000 tons
Witch flounder 3NO	5 000 tons
Capelin 3NO	no directed fishery

**Management and Technical Measures for Fish Stocks  
in the Regulatory Area (Agenda items 17 and 18)**

**3M Cod**

Proposal: TAC of 12 965 tons (by Denmark in respect of the Faroe Islands and Greenland) was adopted with 9 votes affirmative and two abstentions (Canada, EEC). Canada explained its abstention as having not been fishing for that stock.

**3M Redfish**

Proposals: 1) TAC of 20 000 tons (by Canada)  
2) TAC of 28 000 tons (by Cuba and Russia)  
3) TAC of 30 000 tons (by EEC)

The first two proposals were withdrawn, and TAC of 30 000 tons was adopted by consensus.

**3M American plaice**

Proposal: TAC of 2 000 tons (by Canada and seconded by Japan and Russia) was adopted by consensus.



**3NO Cod**

Proposals: 1) TAC of 10 200 tons (by Canada with explanation that this stock was managed according to the  $F_{0.1}$  in its own waters)  
2) TAC of 13 600 tons (by EEC)

A TAC of 10 200 tons was adopted by consensus.

**3LN Redfish**

Proposal: TAC of 14 000 tons (by Canada) was adopted by consensus.

**3LNO American plaice**

Proposal: TAC of 10 500 tons (by Canada) was adopted by consensus.

**3LNO Yellowtail flounder**

Proposal: TAC of 7 000 tons (by Canada) was adopted by consensus.

**3NO Witch flounder**

Proposal: TAC of 5 000 tons (by Canada) was adopted by consensus.

**3NO Capelin**

Proposal: TAC of "zero" (by Norway) was adopted by consensus.

The representatives questioned and discussed some factors causing the decline of the stock, in particular, the failure of future recruitment and the consumption of capelin by other species (cod, flatfish, seals).

**3+4 Squid**

Proposal: TAC of 150 000 tons (by Japan) was adopted by consensus.

**3L Cod (in the Regulatory Area)**

Proposal: "Directed fishery for this cod (the stock of 2J3KL) in division 3L in the Regulatory Area shall not be permitted in 1993" (by Canada and EEC) as an amendment to the Conservation and Enforcement Measures to Part I, new item "E-Other Measures" was adopted by consensus.

The distribution of TACs among Contracting Parties was discussed in view of the request from the three new Contracting Parties - Estonia, Latvia, and Lithuania. Consensus was reached that, in absence of an agreement at this meeting, the issue could be decided by a mail vote of the Commission if the Parties - Estonia, Latvia, Lithuania, and Russia - came to an agreement by 31 December 1992. In the meantime, the Commission decided to assign to the four Contracting

Parties collectively the quota levels formerly allocated to the USSR, and the end result would be that they would fish on one quota in a competitive fishery as per provisions of Part I. A.3 of the NAFO Conservation and Enforcement Measures.

A separate vote requested by Russia was taken on the allocation of each TAC with the following results:

The TACs of 3M Cod, 3NO Cod, 3M Redfish, 3LN Redfish, 3M American plaice, 3NO Witch flounder, and 3+4 Squid were adopted by ten (10) votes affirmative and one vote (1) against (Russia).

The TACs of 3LNO American plaice, 3LNO Yellowtail flounder, and 3NO Capelin were adopted by consensus.

The Fisheries Commission's request for scientific advice on management in 1994 of certain stocks in Subareas 3 and 4 was adopted (Annex 13).

#### **Adjournment** (Agenda items 20 to 22)

The time and place of the next meeting was referred to the General Council, and subject to the General Council decision, the meeting would be held on 10-14 September 1993 in the Halifax-Dartmouth Area.

There was no other business under Agenda item 21.

The meeting adjourned at 1500 hours, 18 September 1992.

The list of decisions and actions by the Fisheries Commission at the 14th Annual Meeting is presented in Annex 14.

## Annex 1. List of Participants

### Fisheries Commission, 14th Annual Meeting

Dartmouth, Nova Scotia, Canada

14-18 September 1992

#### CANADA

**Head of Delegation:** B. Rawson, Deputy Minister, Department of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6

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## Annex 2. Agenda

### Fisheries Commission, 14th Annual Meeting

Dartmouth, Nova Scotia, Canada

14-18 September 1992

#### Opening Procedures

1. Opening by the Chairman, E. Wiseman (Canada)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Admission of Observers
5. Publicity

#### Administrative

6. Adoption of the Report of the 13th Annual Meeting, September 1991 (FC Doc. 91/14) and Report of the Special Meeting of the Fisheries Commission, May 1992 (FC Doc. 92/3)
7. Review of Commission Membership
8. Clarification of the Rules of Procedure

#### Commission Proposals

9. Adoption of Reports of STACTIC Meetings in February and July 1992 in Copenhagen, Denmark
10. Conservation and Enforcement Measures (amendments for adoption by the Commission)
  - 10.1 Pilot project for a NAFO Observer Scheme
  - 10.2 Incorporation of a catch reporting feature into the hail system
  - 10.3 Production logbooks and stowage plans
  - 10.4 Action by the Contracting Parties to prevent infringements of the measures by their vessels
  - 10.5 Effort plans for the vessels of the Contracting Parties operating in the Regulatory Area
  - 10.6 Incidental catch limits
  - 10.7 A uniform mesh size in the Regulatory Area

- 10.8 STACTIC Form of inspections, apparent infringements and their disposition
- 10.9 Definition of an inspection party
- 10.10 Operation of the hail system
- 10.11 Coordination and financing of inspection activities in the Regulatory Area
- 10.12 Scientific advice on minimum cod size, and minimum flatfish size in the Regulatory Area
- 10.13 Financing of the NAFO scientific work in the Regulatory Area
- 11. Annual Return of Infringements; Surveillance and Inspection Reports
- 12. Fishing Vessels Registration
- 13. Report of STACTIC
- 14. Report of STACTIC Working Group (April, 1992) on NAFO Communication Study

#### Conservation

- 15. Transfer of quotas between Contracting Parties
- 16. Summary of scientific advice by the Scientific Council (stock summary sheets and detailed assessments in the report of the 1992 June Meeting of the Scientific Council)
- 17. Management and technical measures for fish stocks in the Regulatory Area
  - a) Cod in Div. 3M
  - b) Redfish in Div. 3M
  - c) American plaice in Div. 3M
- 18. Management and technical measures for fish stocks overlapping national fishing limits
  - a) Cod in Div. 3NO
  - b) Redfish in Div. 3LN
  - c) American plaice in Div. 3LNO
  - d) Yellowtail flounder in Div. 3LNO
  - e) Witch flounder in Div. 3NO
  - f) Capelin in Div. 3NO
  - g) Squid (*Illex*) in Subareas 3 and 4
  - h) Management measures for the following stock, if available in the Regulatory Area, in 1992
    - i) Cod in Div. 3L
- 19. Formulation of Request to the Scientific Council for Scientific Advice on the Management of Fish Stocks in 1994

**Adjournment**

20. Time and Place of the Next Meeting
21. Other Business
22. Adjournment

### Annex 3. A Pilot Project for a NAFO Observer Scheme\*

#### The Fisheries Commission

Noting that Canada has a program under which there is extensive observer coverage on board vessels fishing in its waters;

Considering that the placement of fisheries observers on board Contracting Party vessels fishing in the Regulatory Area may be a useful and cost effective method of monitoring compliance with the provisions of the NAFO Conservation and Enforcement Measures and that the observers might also provide sampling information for use by the Scientific Council;

Therefore:

1. Endorses implementation of an 18-month pilot project to test operation of a NAFO Observer Scheme in the NAFO Regulatory Area by January 1, 1993.

Observers would monitor a vessel's compliance with the NAFO Conservation and Enforcement Measures. Observers will record and report upon the fishing activities of the vessel observed and will verify the position of the vessel when engaged in fishing, observe and estimate catches taken with a view to identifying catch composition, monitor discarding, by-catches and the taking of undersized species, record the gear, mesh sizes and attachments employed by the skipper and verify entries made to the logbook (catch quantities and hail reports).

The role envisaged is strictly an observer one and shall be confined to the Regulatory Area, but could include for example the collection of samples. Any "quasi" scientific role would have to be defined on the advice of the Scientific Council.

2. Requests that the Scientific Council recommend a work plan for fisheries observers that are authorized to obtain biological sampling data from Contracting Party vessels fishing in the Regulatory Area.
3. Calls on all Contracting Parties that anticipate their fishing operations to exceed 300 fishing days on ground in 1993 to:
  - (a) Deploy on their vessels fishing in the Regulatory Area trained individuals from their own countries, or from other NAFO members where agreed bilaterally, to monitor compliance with the provisions of the NAFO Conservation and Enforcement Measures in accordance with criteria agreed by STACTIC and approved by the Fisheries Commission;
  - (b) Deploy those observers appropriately to ensure that a minimum of 10 percent of the Contracting Party's total estimated fishing days on ground for 1993 are subject to observation across as many fisheries in the NAFO Regulatory Area as possible;
  - (c) Pay all costs associated with their observers;

- (d) Advise the Executive Secretary of the vessels on which observers are deployed for subsequent transmission to Contracting Parties with an inspection presence in the Regulatory Area;
  - (e) Table at a special Fisheries Commission meeting to be held in 1994 at the conclusion of 12 months of the pilot program a report assessing the effectiveness and costs of the program and outlining administrative and operational problems while also considering the continuation and possible future expansion of the program.
4. Requests all Contracting Parties to authorize observers on board their vessels fishing in the Regulatory Area:
- (a) To monitor their assigned vessel's compliance with the provisions of the NAFO Conservation and Enforcement Measures and, if approved by the Contracting Party which receives the observer, to conduct sampling in accordance with technical guidelines and a work plan developed in accordance with paragraph 2.
  - (b) To prepare a report of their findings at the termination of the observer period. These reports shall be forwarded to the competent authorities of the Contracting Party providing the observer. The said competent authorities shall examine these reports with a view to preparing an overall evaluation of the findings presented during the entire period of the pilot project.

These findings shall be presented to the Fisheries Commission at its special session in 1994.

## Annex 4. Production Logbooks and Stowage Plans\*

### Part I. C. Recording of Catch

Add new paragraph:

2. (c) For all fish taken under paragraph 2 (a), Contracting Parties shall ensure that all vessels of that Party fishing in the Regulatory Area shall either:
- i) record their cumulative production by species and product form in a production logbook
  - or
  - ii) stow in the hold all processed catch in such a way that each species is stowed separately. A stowage plan shall be maintained showing the location of the products in the hold.

### Part IV Scheme of Joint International Inspection and Surveillance

Add new paragraphs:

6. (ii) (d) Inspectors shall be given access to production logbooks or stowage plans in accordance with the NAFO Conservation and Enforcement Measures, Part I.C.2 (a) and (c) and in the latter case shall be given such assistance as is possible and reasonable and necessary to ascertain that the stowage conforms to the stowage plan, no interference being allowed in the stowage of product or in the technological process on the vessel.
- (e) Inspectors shall convert production weight, as recorded in production logbooks, into live weight so that the latter can be verified against the logbook entries which are made in live weight. Inspectors shall be guided by conversion factors established by the master of the vessel.
- Existing (d) becomes (f).

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\*NAFO/FC Doc. 92/8

## Annex 5. Action by Contracting Parties to Prevent Infringements of the Measures by their Vessels\*

### Part IV. 7 (new text is in italics)

An appropriate authority of a Contracting Party notified of an apparent infringement committed by a vessel of that Party shall take prompt action to *conduct the investigations necessary to obtain the evidence required and*, whenever possible, board the vessel involved. *The authority shall take immediate judicial or administrative action as would be the case when dealing with apparent infringements of fisheries regulations in national waters.* An appropriate authority of the Contracting Party for the vessel concerned shall cooperate fully with the appropriate authority of the Contracting Party that designated the inspector to ensure that the evidence of the apparent infringement is prepared and preserved in a form which facilitates judicial action. *The appropriate authorities in the flag state of the vessels concerned shall take prompt action as necessary to receive and consider the evidence and shall conduct any further investigation necessary for disposition of the apparent infringement.*

Text of second paragraph in Part IV. 7 remains as is.

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\*NAFO/FC Doc. 92/7

**Annex 6. Observations by Inspectors of Incidental By-catches  
in Excess of Prescribed Limits\***

**Part II.B.3. Mesh Size**

New sub-paragraph 3 (c)

- (c) If, in fisheries conducted with nets having mesh sizes less than those specified in paragraph 2, an inspector observes in nets hauled in his/her presence incidental catches in excess of 10 per cent for each species listed in Schedule I, he/she shall record this fact in the Inspection Report and shall remind the Master of the vessel not to continue fishing in the area after the fish on board exceeds the incidental catch limits specified in Part II.B.3 (a).

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\*NAFO/FC Doc. 92/6



## Annex 7. Minimum Mesh Sizes for Groundfish Fisheries in the Regulatory Area\*

Existing Table in Part V - Schedule IV to be replaced as follows:

### PART V - SCHEDULE IV Authorized Mesh Size of Nets

	<u>Species</u>	<u>Mesh Size</u>
a)	All principal groundfish, flatfishes and other groundfish, as listed in Part V, Schedule II, Attachment II	130 mm
b)	Short-finned squid, <i>Illex illecebrosus</i> (leSueur)	60 mm

Note 1. Until 1st June 1994, when trawl nets or parts thereof made of materials other than manila are used, the equivalent minimum mesh size shall be as follows:

- (a) such part of any trawl net made of hemp, or polyamide fibres, or polyester fibres: 120 mm
- (b) such part of any trawl net made of any other material: 130 mm

Note 2. For the nets made of polyamide fibres of the following tradenames:

caprolan  
dederon  
kapron

the equivalent minimum mesh size shall be 120 mm. Vessels using these materials shall have aboard certificates, which establish that the fibres in the net used correspond to the tradenames mentioned above.

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\*NAFO/FC Doc. 92/14

## Annex 8. Mesh Size of Nets on Board Vessels Operating in the Regulatory Area\*

### Part II. B. Mesh Size

- NEW: 2. (a) A Contracting Party shall prohibit its vessels fishing in the Regulatory Area for a species listed in Part V, Schedule IV, to which a mesh size measure applies, from having on board during any trip any net with a mesh size smaller than that authorized for that species.
- (b) Vessels from Contracting Parties which fish in other areas outside the NAFO Regulatory Area shall be authorized when fishing in the Regulatory Area to retain on board nets with a mesh size smaller than that prescribed by paragraph 2(a) above provided that these nets are securely lashed and stowed and are not available for immediate use.

Re-number the existing paragraphs.

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\*NAFO/FC Doc. 92/10

**Annex 9. Amendments to STACTIC Form 1 (09/83), STACTIC  
Form 2A( 09/83), and STACTIC Form 2B (09/83), used  
for Annual Reports by Contracting Parties of  
Inspections, Apparent Infringements and  
their Disposition\***

STACTIC Form 1 - Annual Return of Inspections, Apparent Infringements and their Disposition (National); STACTIC Form 2A - Annual Return of Inspections and Apparent Infringements (International); and STACTIC Form 2B - Annual Return of Disposition of *Infringements* (International) are replaced by STACTIC Form A - Annual Return of Inspections, Catch Record Discrepancies and/or apparent infringements and STACTIC Form B - Annual Return of Disposition of Catch Record Discrepancies and/or apparent infringements.

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\*NAFO/FC Doc. 92/9

NORTHWEST ATLANTIC FISHERIES ORGANIZATION  
 CONSERVATION AND ENFORCEMENT MEASURES  
 ANNUAL RETURN OF INSPECTIONS, CATCH RECORD DISCREPANCIES AND/OR APPARENT INFRINGEMENTS

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Contracting Party Reporting: \_\_\_\_\_ Year: \_\_\_\_\_

Contracting Party of Inspected Vessels: \_\_\_\_\_

SUMMARY OF INSPECTIONS, CATCH RECORD DISCREPANCIES AND/OR APPARENT INFRINGEMENTS

Total Number of Inspections: \_\_\_\_\_ Total Number of Apparent Infringements: \_\_\_\_\_

Total Number of Catch Record Discrepancies \_\_\_\_\_

DETAILS OF CATCH RECORD DISCREPANCIES AND/OR APPARENT INFRINGEMENTS

Name of Vessel Inspected and Side Number	Date Inspected	Location at time of Inspection (NAFO Division or name of port)	Details of apparent infringements and/or catch record discrepancies (Indicate Applicable Section of NAFO Conservation and Enforcement Measures)

Date of Return: \_\_\_\_\_

NORTHWEST ATLANTIC FISHERIES ORGANIZATION  
 CONSERVATION AND ENFORCEMENT MEASURES  
 ANNUAL RETURN OF INSPECTIONS, CATCH RECORD DISCREPANCIES AND/OR APPARENT INFRINGEMENTS

---

Contracting Party of Inspected Vessels: \_\_\_\_\_

DETAILS OF CATCH RECORD DISCREPANCIES AND/OR APPARENT INFRINGEMENTS

Name of Vessel Inspected and Side Number	Date Inspected	Details of apparent infringements and/or catch record discrepancies (indicate applicable section of NAFO Conservation and Enforcement Measures	Disposition of apparent infringement(s) and/or catch record discrepancies

Date of Return: \_\_\_\_\_

STACTIC FORM B

## Annex 10. Definition of an Inspection Party\*

1. Amend Part IV.1.(ii)

The appropriate authorities of Contracting Parties shall notify the Executive Secretary by November 1 each year of the name of Inspectors, *NAFO Inspection trainees* and special inspection vessels.

2. Amend Part IV.1.(iv)

On receipt of the notification of assignment to the Scheme from the Contracting Party, the Executive Secretary shall issue a document of identity, as shown in Annex I, to the respective authority for each inspector or *NAFO Inspection trainee* of that Party.

3. Amend Part IV.5.(iv)

An inspection party shall consist of, at maximum, two inspectors assigned to the Scheme. Occasionally, *vessel conditions permitting, a NAFO Inspection trainee may accompany the inspection party for training purposes only. In such circumstances the inspection party shall, upon arrival on board, identify the trainee to the Master of the vessel being inspected. This trainee shall simply observe the inspection operation conducted by the duly authorized inspectors and shall in no way interfere with the activities of the fishing vessel and with the inspection.*

4. Amend Annex I, *Document of Identity*, as appropriate.

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\*NAFO/FC Doc. 92/11

## Annex 11. Minimum Fish Size\*

### PART I. QUOTAS

#### New: D. Minimum Fish Size

1. Vessels of a Contracting Party shall not retain on board any fish of a species listed in Part V, Schedule VII that is below the minimum size as listed in that Schedule. If the amount of undersized fish in any one haul exceeds 10% by number, the vessel shall immediately change fishing area (minimum 5 nautical miles) in order to seek to avoid further catches of undersized fish.
2. Undersized fish shall not be transhipped, landed, transported, stored, displayed or offered for sale, but shall be returned immediately to the sea.

#### New: Part V. Schedule VII

##### Minimum Fish Size

Species	Minimum Size
Atlantic cod, <i>Gadus morhua</i> L.	41 cm
American plaice, <i>Hippoglossoides platessoides</i> (Fab)	25 cm
Yellowtail flounder, <i>Limanda ferruginea</i> (Storer)	25 cm

NOTE: Fish size for Atlantic cod refers to fork length and for other species it is total length.

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\*NAFO/FC Doc. 92/15

## Annex 12. Surveillance Report

NORTHWEST ATLANTIC FISHERIES ORGANIZATION  
 Annual return of surveillance information in  
 compliance with the hail system  
 (to be used by Authorities of Contracting Parties  
 conducting surveillance)

Contracting Party: \_\_\_\_\_

1. General surveillance record

Number of air hours flown on NAFO patrol	Total number of sightings

2. Surveillance record balanced by Contracting Parties

Contracting Party whose vessels are surveyed in the Regulatory Area	Number of surveillance reports/established with the date, time, position of sightings	Number of surveillance reports which do not correspond with "hail system" reports
Bulgaria		
Canada		
Cuba		
Denmark (on behalf of Faroes & Greenland)		
Estonia		
European Community		
Iceland		
Japan		
Latvia		
Lithuania		
Norway		
Poland		
Romania		
Russia		
TOTAL		

Date of Return:

Reported by: \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_



NORTHWEST ATLANTIC FISHERIES ORGANIZATION  
 Annual return of surveillance information in  
 compliance with the hail system  
 (to be used by Authorities of Contracting Parties  
 conducting surveillance)

Contracting Party: \_\_\_\_\_

Details of established discrepancies of surveillance and "hail system" reports

Surveillance reports			"Hail system" reports		Remarks: (sequential no. of report, conclusions etc.)
Vessels/by Contracting Party	Date	Location (coordinates, division)	Date	Location (coordinates, division)	

Date of Return: \_\_\_\_\_

Reported by: \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Annex 13. Fisheries Commission's Request for Scientific  
Advice on Management in 1994 of Certain Stocks  
in Subareas 3 and 4\***

1. The Fisheries Commission with the concurrence of the Coastal State as regards the stocks below which occur within its jurisdiction, requests that the Scientific Council, at a meeting in advance of the 1993 Annual Meeting, provide advice on the scientific basis for the management of the following fish and invertebrate stocks or groups of stocks in 1994:

Cod (Div. 3NO; Div. 3M)  
Redfish (Div. 3LN; Div. 3M)  
American plaice (Div. 3LNO; Div. 3M)  
Witch flounder (Div. 3NO)  
Yellowtail flounder (Div. 3LNO)  
Capelin (Div. 3NO)  
Squid (Subareas 3 and 4)

2. The Commission and the Coastal State request the Scientific Council to consider the following options in assessing and projecting future stock levels for those stocks listed above:

- a) For those stocks subject to analytical dynamic-pool type assessments, the status of the stock should be reviewed and management options evaluated in terms of their implications for fishable stock size in both the short and long term. In those cases where present spawning stock size is a matter of scientific concern in relation to the continuing productive potential of the stock, management options should be evaluated in relation to spawning stock size. As general reference points the implications of fishing at  $F_{0.1}$ ,  $F_{1990}$  and  $F_{max}$  in 1994 and subsequent years should be evaluated. The present stock size and spawning stock size should be described in relation to those observed historically and those expected in the longer term under this range of options.

Opinions of the Scientific Council should be expressed in regard to stock size, spawning stock sizes, recruitment prospects, catch rates and TACs implied by these management strategies for 1994 and the long term. Values of  $F$  corresponding to the reference points should be given and their accuracy assessed.

- b) For those stocks subject to general production-type assessments, the time series of data should be updated, the status of the stock should be reviewed and management options evaluated in the way described above to the extent possible. In this case, the general reference points should be the level of fishing effort or fishing mortality ( $F$ ) which is calculated to be required to take the MSY catch in the long term and two-thirds of that effort level.

- c) For those resources of which only general biological and/or catch data are available, no standard criteria on which to base advice can be established. The evidence of stock status should, however, be weighed against a strategy of optimum yield management and maintenance of stock biomass at levels of about two-thirds of the virgin stock.
- d) Spawning stock biomass levels that might be considered necessary for maintenance of sustained recruitment should be recommended for each stock.
- e) Presentation of the result should include the following:
  - i) for stocks for which analytical dynamic-pool type assessments are possible:
    - a graph of yield and fishing mortality for at least the past 10 years.
    - a graph of spawning stock biomass and recruitment levels for at least the past 10 years.
    - a graph of catch options for the year 1994 over a range of fishing mortality rates (F) at least from  $F_{0.1}$  to  $F_{max}$ .
    - a graph showing spawning stock biomass at 1.1.1995 corresponding to each catch option.
    - graphs showing the yield-per-recruit and spawning stock-per-recruit values for a range of fishing mortality.
  - ii) for stocks for which advice is based on general production models, the relevant graph of production on fishing mortality rate or fishing effort.

In all cases the three reference points, actual F,  $F_{max}$  and  $F_{0.1}$  should be shown.

- 3. The Fisheries Commission with the concurrence of the Coastal State requests that the Scientific Council continue to provide information, if available, on the structure of the stock complex of cod in Div. 2J+3KL and the proportion of the biomass of the cod stock in Div. 3L in the Regulatory Area and a projection if possible of the proportion likely to be available in the Regulatory Area in future years. Information is also requested on the age composition of that portion of the stock occurring in the Regulatory Area.

**Annex 14. List of Decisions and Actions by  
the Fisheries Commission  
(14th Annual Meeting; 14-18 September 1992)**

Substantive issue (propositions/motions)	Decision/Action (FC Doc. 92/19; item)
1. Report of the 13th Annual Meeting, September 1991; FC Doc. 91/14	adopted (item 2.1)
2. Report of the Special Meeting; May 1992; FC Doc. 92/3	adopted (item 2.1)
3. Reports of STACTIC; February, July 1992 (Copenhagen); FC Doc. 92/1 and 92/4	adopted (item 3.1)
4. Report of STACTIC Working Group on the Hail System; April 1992; FC Doc. 92/2	adopted (item 4.5)
5. Observations by inspectors of incidental by-catches in excess of prescribed limits; FC Doc. 92/6	adopted (item 3.8)
6. Action by Contracting Parties to prevent infringements to the Measures by their vessels; FC Doc. 92/7	adopted (item 3.6)
7. Production logbooks and stowage plans; FC Doc. 92/8	adopted (item 3.5)
8. STACTIC Form A-Annual Return of Inspections, Catch Record Discrepancies and/or Apparent Infringements; STACTIC Form B-Annual Return of Disposition of Catch Record Discrepancies and/or Apparent Infringement; FC Doc. 92/9	adopted (item 3.10)
9. Mesh size of nets on board vessels operating in the Regulatory Area; FC Doc. 92/10	adopted (item 3.9)
10. Definition of an inspection party; FC Doc. 92/11	adopted (item 3.11)
11. New item E-Other Measures; "Directed fishery for cod in division 3L in the Regulatory Area shall not be permitted in 1993; FC Doc. 92/12	adopted (item 7.11)
12. Pilot project for a NAFO Observer Scheme (a new Part VI of the Measures); FC Doc. 92/13	adopted (item 3.3)
13. Minimum mesh sizes for groundfish fisheries in the Regulatory Area; FC Doc. 92/14	adopted (item 3.9)
14. Minimum fish size; FC Doc. 92/15 (Part I. New item D)	adopted (item 3.14)

Substantive issue (propositions/motions)	Decision/Action (FC Doc. 92/19; item)
15. Annual Return of surveillance information in compliance with the hail system (see FC Doc. 92/1; item 7 c).1, p 19 and Annex 11); FC Doc. 92/16	adopted (item 3.1)
16. Schedule I-Quota Table for 1993 for NAFO Conservation and Enforcement Measures (Part V) for international regulation of the fisheries for particular stocks	adopted (item 7.12)
17. Incorporation of a catch reporting system into the hail system (by Canada); FC W.P. 92/7 (4th revision)	discussed; deferred to the next Annual Meeting (1993) (item 3.4)
18. Effort plans for the vessels of the Contracting Parties operating in the Regulatory Area (by Canada and EEC); FC W.P. 92/46 and FC W.P. 92/40	discussed; deferred to the next Annual Meeting (1993) (item 3.7)
19. Operation of the Hail System; FC Doc. 92/3, Annex 14	discussed; deferred to the next Annual Meeting (1993) (item 3.12)
20. Coordination and financing of inspection activities in the Regulatory Area	discussed; took note of the estimates (by STACTIC) (item 3.13)
21. Financing of NAFO's scientific work in the Regulatory Area; FC Doc. 92/20	discussed; request to the Scientific Council (item 3.15)
22. Report of STACTIC at the 14th Annual Meeting	adopted (item 4.2)
23. Terms of reference for STACTIC to compile statistics (by European Community)	discussed; deferred to the next Annual Meeting (1993) (item 4.4)
24. <i>Transfer of quotas between Contracting Parties</i>	discussed; deferred to the next Annual Meeting (1993) (item 5)
25. TAC of Cod 3M for 1993	adopted - 12,965 tons (item 7.1)
26. TAC of Redfish 3M for 1993	adopted - 30,000 tons (item 7.2)
27. TAC of Am. Plaice 3M for 1993	adopted - 2,000 tons (item 7.3)
28. TAC of Cod 3NO for 1993	adopted - 10,200 tons (item 7.4)
29. TAC of Redfish 3LN for 1993	adopted - 14,000 tons (item 7.5)
30. TAC of Am. Plaice 3LNO	adopted - 10,500 tons (item 7.6)
31. TAC of Yellowtail flounder 3LNO for 1993	adopted - 7,000 tons (item 7.7)
32. TAC of Witch flounder 3NO for 1993	adopted - 5,000 tons (item 7.8)

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Substantive issue (propositions/motions)	Decision/Action (FC Doc. 92/19; item)
33. TAC of Capelin 3NO for 1993	agreed -"zero TAC" (item 7.9)
34. TAC of Squid 3+4 for 1993	adopted - 150,000 tons (item 7.10)
35. Distribution of quotas to the Contracting Parties - quota allocations to Estonia, Larvia, Lithuania, and Russia	decided (item 7.12) discussed; to proceed with a mail vote before 31 December 1992 upon the agreement between the interested Parties
36. Request to the Scientific Council for scientific advice on the management of fish stocks in 1994; FC Doc. 92/17	adopted (item 8)

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## PART III

(pages 119-165)

### Activities of the Scientific Council in 1992

#### List of Meetings

The following meetings were held under the authority of the Scientific Council in 1992:

- Scientific Council Meeting; 3-6 March 1992, Northwest Atlantic Fisheries Centre, St. John's, Newfoundland, Canada.
- Scientific Council Special Meeting; 1-4 June 1992, NAFO Headquarters, Dartmouth, Nova Scotia, Canada.
- Scientific Council Meeting; 3-17 June 1992, NAFO Headquarters, Dartmouth, Nova Scotia, Canada.
- Scientific Council (Special Session on "State-of-the-Art in Fish Assessment: A Tutorial/Workshop on Calibration Methods and Their Practical Use"); 9-11 September 1992, NAFO Headquarters, Dartmouth, Nova Scotia, Canada.
- Scientific Council Meeting; Annual Meeting, 14-18 September 1992, Holiday Inn, Dartmouth, Nova Scotia, Canada.





## Scientific Council Meeting

The Scientific Council met at the Northwest Atlantic Fisheries Centre, St. John's, Newfoundland, Canada, during 3-6 March 1992 to review the status of capelin stocks in Divisions 3L and 3NO. Full proceedings of the meeting are in *NAFO Scientific Council Reports, 1992*. Participants from Canada and Denmark (in respect of Greenland), and the Assistant Executive Secretary were in attendance (Annex 1).

The Council adopted the Agenda (Annex 2) and appointed the Assistant Executive Secretary Rapporteur.

In the absence of the Chairman, V. Serebryakov (Russia), the Vice-Chairman, H. Lassen (Denmark) chaired the meeting.

### FISHERY SCIENCE

#### Assessments of Capelin Stocks in Division 3L and Division 3NO

The Standing Committee on Fishery Science (STACFIS) reviewed the status of capelin stocks in Divisions 3L and 3NO. The summary of the assessments are given below:

Capelin in Division 3L

Year	1984	1985	1986	1987	1988	1989	1990	1991
Recommended TAC	38	60	130	283	90	335	350	1 <sup>1</sup>
Agreed TAC	26	26	55	25	45	46	56	56
Reported catches	33	25	48	19	53	52 <sup>2</sup>	47 <sup>2</sup>	21 <sup>2</sup>
Non-reported catches								
Total landings	33	25	48	19	53	52 <sup>2</sup>	48 <sup>2</sup>	
Sp. stock biomass	382	596	1300	2830	900	3345	3500	1900 <sup>3</sup>
Recruitment <sup>4</sup> (age 2)	73.2	73.2	63.7	87.8	380.4	314.8	353.2	
Mean F	No information available							

<sup>1</sup> STACFIS concluded that a catch of 50 000 tons as in recent years would be well below a 10% exploitation rate.

<sup>2</sup> Provisional.

<sup>3</sup> Up to 1990, these are projected. The 1991 estimate is back-calculated.

<sup>4</sup> Recruitment at age 2 in the year shown. Recruitment 1982-1985 were projection from acoustic surveys. From 1986 to present, measured directly from acoustic surveys.

Weights in '000 tons

Catches: All catches are inshore and determined by market. The dominant market is the Japanese roe market.

Forecast for 1992: 1992 biomass projected to be about one-third of 1989 and 1990 levels. No information available for option basis  $F_{0.1}$ ,  $F_{90}$ ,  $F_{max}$ .

Recommendations: A catch of 50 000 tons, as in recent years, would not exceed 10% exploitation rate.

Special Comments: Based on recent analyses, the goal of providing a TAC of 10% of the projected mature biomass has been met reasonably well. The actual TACs and landings have been well below the advised TAC. STACFIS concluded that fishing has not contributed to the present decline in the capelin stock.

Capelin in Divisions 3N and 3O

Year	1984	1985	1986	1987	1988	1989	1990	1991
Recommended TAC	0	0	0	10	10	28	30	30
Agreed TAC	0	0	0	10	15	28	30	30
Reported catches	0	0	0	1	7	5 <sup>1</sup>	21 <sup>1</sup>	
Non-reported catches								
Total landings	0		0	1	7	5 <sup>1</sup>	21 <sup>1</sup>	
Sp. stock biomass <sup>2</sup>	88	212	527	273	560	28	-	
Recruitment (age 1)	No information available							
Mean F								

<sup>1</sup> Provisional.

Weights in '000 tons

<sup>2</sup> In some years, these are averages of USSR and Canadian acoustic surveys and in other years only Canadian estimates were available. These are estimates of mature biomass.

Catches: Peak catch in 1975 of 132 000 tons. Fishery was closed during 1979-86.

Forecast for 1992: Stock will probably decline.  
No information available for option basis  $F_{0.1}$ ,  $F_{90}$ ,  $F_{max}$ .

Recommendations: No basis to change advice.

Special Comments: Based on expected decline, a catch of 30 000 tons may exceed 10% of mature biomass.

The STACFIS report was adopted by the Council.

The other organizational matters and publications were discussed. The meeting was adjourned on 6 March 1992.

## Annex 1. List of Participants

Scientific Council Meeting  
 St. John's, Newfoundland, Canada  
 3-6 March 1992

### CANADA

Atkinson, D. B.	Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland
Cahill, P. C.	" " "
Carscadden, J. E.	" " "
Lilly, G. R.	" " "
Miller, D.	" " "
Myers, R. A.	" " "
Nakashima, B. S.	" " "
Narayanan, S.	" " "
Shelton, P. A.	" " "
Wheeler, J. P.	" " "
Winters, G. A.	" " "
Hunt, J. J.	Marine Fish Division, DFO, Biological Station, St. Andrews, New Brunswick
Melvin, G. D.	" " "
Clayton, R. R.	Science Branch, DFO, P. O. Box 5030, Moncton, New Brunswick
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Lambert, J-D	" " "

### DENMARK

### GREENLAND

Lassen, H.	Danmarks Fiskeri-og, Havundersogelser, Charlottenlund Slot, DK-2920 Charlottenlund, Copenhagen
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## Annex 2. Agenda

### Scientific Council Meeting St. John's, Newfoundland, Canada 3-6 March 1992

- I. Opening (Vice-Chairman: H. Lassen)
  1. Appointment of rapporteur
  2. Adoption of agenda
  3. Work plan
  
- II. Fishery Science (STACFIS Chairman: D. B. Atkinson)
  1. Stock assessments
    - Capelin (Div. 3N and 3O)
    - Capelin (Div. 3L)
  
  2. Other Matters
    - a) Preparations for the Special Session in 1992
    - b) Consideration of a Special Session in 1993
    - c) Review of data availability for Designated Experts for June 1992 stock assessments
    - d) Other Business
  
- III. Publications (STACPUB Chairman: H. Lassen)
  
- IV. Adoption of Reports
  
- V. Adjournment

## Scientific Council Special Meeting

The Scientific Council met at NAFO Headquarters, Dartmouth, Nova Scotia, Canada during 1-4 June 1992 upon the request from Canada as a Coastal State (provisions of Articles VII and IX.3 of the NAFO Convention) for advice on the status of the cod stock in Divisions 2J and 3KL. Full proceedings of this meeting are in *NAFO Scientific Council Reports, 1992*.

Representatives attended from Canada, Cuba, European Economic Community (EEC), Japan, Russia and an observer from the United States of America (Annex 1).

The Chairman was V. Serebryakov (Russia) and T. Amaratunga, the Assistant Executive Secretary, was designated Rapporteur. The provisional agenda was adopted as circulated (Annex 2).

### FISHERY SCIENCE

#### Stock Assessments of Cod in 2J+3KL

STACFIS reviewed the status of the cod stock in Division 2J+3KL. The summary of the assessments are given below:

Cod in Divisions 2J, 3K and 3L

Year	1985	1986	1987	1988	1989	1990	1991	1992
TAC	266	266	256	266	235	199	190	120
Catch	231	252	235	269	253 <sup>1</sup>	219 <sup>1</sup>	150 <sup>1</sup>	
Offshore catch	151	179	156	168	151 <sup>1</sup>	106 <sup>1</sup>	90 <sup>1,2</sup>	
Fixed gear catch	80	72	79	101	103 <sup>1</sup>	113 <sup>1</sup>	60 <sup>1</sup>	
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Sp. stock biomass ADAPT	303	290	299	332	299	181	110	
Laurec/Shepherd (L/S)	302	287	295	324	282	155	72	
Recruitment (age 3) ADAPT	353	173	154	217	385	520	193	
L/S	340	161	139	184	297	452	165	
Mean F (ages 7-9) ADAPT	0.55	0.52	0.56	0.72	0.91	0.96	0.68	
L/S	0.55	0.53	0.57	0.75	0.99	1.3	1.4	

<sup>1</sup> Provisional

<sup>2</sup> Canadian surveillance estimated 111. See details under 'Catches' below.

#### Catches:

Catches declined from a high of 810 000 tons in 1968 to a low of 139 000 tons in 1978. During 1982-90 catches ranged between 219 000 and 270 000 tons. Preliminary data reported to NAFO indicated a catch in 1991 of about 150 000 tons, although Canadian surveillance estimates along with reported catches put the 1991 catch at about 171 000 tons. The Canadian fixed gear catch declined from 113 000 tons in 1990 to 60 000 tons in 1991.

#### Forecast for 1993:

With the uncertainty regarding the causes of the large decline in biomass between 1990 and 1991 and given ancillary information suggesting a lack of fish in early-1992, it was concluded that it would not be prudent to conduct quantitative projections beyond 1992. Before advice for 1993 could be provided, data from the 1992 commercial fisheries and research surveys should be evaluated.

Option Basis	Predicted catch (1992)	Predicted SSB (1.1.1993)
$F_{0.1}$ =		
$F_{90}$ =	No information available	
$F_{max}$ =		

Special comments: The fishing mortalities derived from the models used were not consistent with research survey and commercial fishing data during recent years, nor with declining trends in fishing effort of Canadian otter trawl fleet. This could be related to assuming constant annual levels of natural mortality for the assessment, which does not account for a possible increase of natural mortality or emigration in 1991.

Given the size of the weak 1988 year-class and the similarities between the extent of the CIL and recruitment suggesting below average year-classes for the early-1990s, the 1986 and 1987 year-classes will be the main contributors to the SSB in the immediate future. The actual size of the 1988-91 year-classes and the level of harvesting of cod of the 1986-87 year-classes will be critical to the future levels of both age 3+ and spawning biomasses.

The Scientific Council reviewed and concurred with the conclusion of STACFIS that this cod stock has recently declined rapidly and is currently at or near the lowest level observed. In addition, the Council agreed that the low spawning stock biomass, as approximated by the age 7+ biomass, is cause for concern although there will be some short-term increase related to growth of the relatively strong 1986 and 1987 year-classes. Longer term recovery will depend on the actual strength of the 1988-91 year-classes, and the level of harvest of the 1986-87 year-classes will be critical as well. The Council concurred that the cause(s) of the decline is not clear at present, and agreed that it would not be prudent to provide projections beyond 1992 until the processes taking place are better understood and additional commercial and research data collected during 1992 are available and can be analyzed. The Council endorsed the recommendation of STACFIS that fishing mortality should be reduced in 1992 from the level of recent years and supports their comment that it would be wise to consider  $F_{0.1}$  catch to be 50 000 tons, the lowest of the range of estimated  $F_{0.1}$  values. It was noted that the 1992 catch (to the end of May) was estimated to be about 25 000 tons.

The Council endorsed the research recommendations of STACFIS detailed as follows:

- further investigations into the relationships between the areal extent of the cold intermediate layer, and recruitment of cod in Div. 2J+3KL be carried out,
- further investigations of the linkage between ocean conditions at West Greenland and Labrador be carried out, and
- all data on cod relative to the commercial fisheries and research vessel surveys in Div. 2J+3KL during 1992, should be made available at the earliest possible date in 1993, to facilitate the next assessment of this stock.

There were no other matters addressed. The Scientific Council adopted the report of STACFIS as presented. The meeting was adjourned on 4 June 1992.

## Annex 1. List of Participants

### Scientific Council Special Meeting

Dartmouth, Nova Scotia, Canada

1-4 June 1992

#### CANADA

Atkinson, D. B.	Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Nfld.
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Zamarro, J.	Instituto de Invest. Marinas, Eduardo Cabello No. 6, 36208 Vigo, Pontevedra, Spain
Jones, B. W.	Fisheries Laboratory, Lowestoft, Suffolk, United Kingdom

#### JAPAN

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#### RUSSIAN FEDERATION

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Serebryakov, V. P.	Institute of Marine Research, P. O. Box 1870, N-5024, Bergen Nordnes, Norway
Mikhailov, A.	Representative of the Russian Federation in Canada on Fisheries, 2074 Robie Street, Halifax, Nova Scotia, Canada B3K 5L3

#### UNITED STATES OF AMERICA (USA)

Mayo, R. K.	U.S. Dept. of Commerce/NOAA, Northeast Fisheries Center, NMFS, Woods Hole, MA 02543
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## Annex 2. Agenda

### Scientific Council Special Meeting

Dartmouth, Nova Scotia, Canada

1-4 June 1992

- I. Opening (Chairman: V. P. Serebryakov)
  1. Appointment of Rapporteur
  2. Adoption of Agenda
  3. Work Plan
  
- II. Fishery Science (STACFIS Chairman: D. B. Atkinson)
  1. Stock assessments of cod in Div. 2J+3KL
    - historical stock levels
    - present stock size
    - interrelation with other species and its possible influence of the stock size
    - environmental conditions and their possible influence on the stock size and distribution
    - evaluation of the present spawning stock size in relation to the continuing productive potential of the stock
    - status of the stock and the implications of fishing at  $F_{0.1}$  in 1993 and subsequent years
    - projection of catch rate and TACs for 1993 and the long term
  2. Other matters
  
- III. Adoption of Report
  
- IV. Adjournment



## Scientific Council Meeting

The Scientific Council met at NAFO Headquarters, Dartmouth, Nova Scotia, Canada from 3 to 17 June 1992. During 3 to 4 June the Council combined its work with outstanding commitments of the Special Meeting on Div. 2J+3KL cod (see previous meeting). Full proceedings of the Scientific Council Meeting are published in *NAFO Scientific Council Reports, 1992*.

Representatives attended from Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), European Economic Community (EEC), Iceland, Japan, Russian Federation; and an observer from the United States of America (USA) (Annex 1).

The Chairman of the Scientific Council was V. Serebryakov (Russia) and the Rapporteur, T. Amaratunga, Assistant Executive Secretary.

The Agenda was adopted as presented in Annex 2.

### FISHERY SCIENCE

#### General Fishery Trends

The Council noted that a substantial amount of provisional catch data for 1991 were not available, particularly from Canada-N, EEC-France (M), France (SP), EEC-Spain, Norway, and South Korea. Therefore, it was not possible to make any comparisons with last year's data.

#### Assessment of Fish and Invertebrate Stocks

The Standing Committee on Fisheries Science (STACFIS) reviewed the status of certain stocks in Subareas 0 to 4 as requested by Canada, Denmark (in respect of the Faroe Islands and Greenland) and the Fisheries Commission and had advised on catch levels corresponding to reference levels according to the different requests. Management advice, based on the reference levels, could not be provided for several stocks due to insufficient data. The report of STACFIS was adopted by the Scientific Council. The following are extracts from the summary sheets of stock assessments.

## Cod in Division 3M

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	0	0	0	0	0	0	0	0
Agreed TAC	13	13	13	0	0	0	13	13
Reported catches	14	15	11	2	1 <sup>1</sup>	2 <sup>1</sup>	8 <sup>1</sup>	
Non-reported catches				2	39	30	3	
Total landings	14	15	11	2	40 <sup>1</sup>	32 <sup>1</sup>	11 <sup>1</sup>	

No information available for Sp. stock biomass, Recruitment, Mean F

<sup>1</sup> Provisional.

Weights in '000 tons

<sup>2</sup> No information available.

Recruitment: There are indications that the 1990 year-class may be relatively strong.

Forecast for 1993: No information available for option basis:  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$ .

Recommendations: Previous attempts to impose moratorium failed. STACFIS therefore recommends that during 1993 the catch must be maintained at as low a level as possible and every effort be taken to prevent the catch of small fish. Exploitation of the expected relatively strong 1990 year-class must not occur until 1994 at the earliest when their mean length will be greater than 40 cm.

## Cod in Divisions 3N and 3O

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC			Same as agreed.					
Agreed TAC	33	33	33	40	25	18.6	13.6	13.6
Reported catches	37	51	42	43	33 <sup>1</sup>	18 <sup>1</sup>	17 <sup>1</sup>	
Non-reported catches	-	-	-	-	-	11	12	
Total landings	37	51	42	43	33 <sup>1</sup>	29 <sup>1</sup>	29 <sup>1</sup>	
Sp. stock biomass	126	139	145	123	102	89	81	
Recruitment (age 3)	37	10	7	14	14	6	8	
Mean F (ages 7-10)	0.23	0.21	0.25	0.28	0.23	0.24	0.42	

<sup>1</sup> Provisional.

Weights in '000 tons

Forecast for 1993:

Option Basis	Predicted catch (1993) ('000 tons)	Predicted SSB (1.1.1994) ('000 tons)
$F_{0.1} = 0.25$	10.2	45.0
$F_{max} = 0.40$	16.4	41.2
$F_{(91)} = 0.40$	16.4	41.2

Recommendation: The SPA and available abundance indices indicate that the adult population is declining and several year-classes in the most recent period are among the lowest observed. Given the current state of the stock the catch in 1993 should not exceed the estimated  $F_{0.1}$  catch of 10 200 tons.

## Redfish in Subarea 1

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC			No TAC					
Agreed TAC	11.5	18	19	19	19	19	19	19
Reported catches	4	5	1	1	1 <sup>1</sup>	0.5 <sup>1</sup>	0.3 <sup>1</sup>	
Total landings	4	5	1	1	1 <sup>1</sup>	0.5 <sup>1</sup>	0.3 <sup>1</sup>	

No information available for Sp. stock biomass, Recruitment (age 2), Mean F

<sup>1</sup> Provisional.

Weights in '000 tons

State of Stock: Survey estimates indicate considerable decline of stock biomass and abundance in recent years.

Forecast for 1993: No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$

Recommendations: As long as catches remain limited to by-catches of the fisheries directed to other species, no TAC is advised.

## Redfish in Division 3M

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	20	20	20	20	20	<50	43	35
Agreed TAC	20	20	20	20	20	50	50	43
Reported catches	20	29	44	23	48 <sup>1</sup>	67 <sup>1</sup>	38 <sup>1</sup>	
Non-reported catches					10	16	17	
Total landings	20	29	44	23	58 <sup>1</sup>	83 <sup>1</sup>	55 <sup>1</sup>	

No information available for Sp. stock biomass, Recruitment (age 2), Mean F

<sup>1</sup> Provisional.

Weights in '000 tons

State of Stock: Appears to be declining in recent years, based on both commercial catch rates and survey data. The average biomass estimated from Russian trawl-acoustic surveys from 1990 and 1991 is about 180 000 tons.

Forecast for 1993: Based on Y/R calculations.

Option Basis	Predicted catch (1993) (tons)	Predicted SSB (1.1.1994)
$F_{0.1} = 0.11$	20 000	
$F_{91} =$	No information available	
$F_{max} = 0.20$	36 000	

Recommendations: Catches in 1993 should not exceed 20 000 tons (see Special Comments below).

Special Comments: Continued declining trend of the stock and high fishing pressure indicate a danger of a long-term depression of the resource.

Considering the possible double counting of demersal biomass and that calculating an average biomass from a time series with a declining trend will result in an estimate biased upwards. STACFIS based its advice on the more conservative reference level.

## Redfish in Divisions 3L and 3N

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	25	25	25	25	25	25	14	14
Agreed TAC	25	25	25	25	25	25	14	14
Reported catches	21	43	71	45	32 <sup>1</sup>	25 <sup>1</sup>	18 <sup>1</sup>	
Non-reported catches			7	8	2	4	7	
Total Landings	21	43	78	53	34 <sup>1</sup>	29 <sup>1</sup>	25 <sup>1</sup>	

No information available for Sp. stock biomass, Recruitment, Mean F

<sup>1</sup> Provisional.

Weights in '000 tons

State of Stock: Available indices exhibit considerable between-year variability but generally indicate a continuation of the stock declines noted during previous assessments.

Forecast for 1993: No information available for  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$

Recommendations: Catches be reduced and total catch for 1993 not to exceed 14 000 tons.

Special Comments: Catches for non-Contracting Parties in recent years have ranged from 6 900 tons in 1990 to 24 000 tons in 1987.

## Silver Hake in Divisions 4V, 4W, and 4X

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	100	100	100	161	235	-	100	105
Agreed TAC	100	100	100	120	135	135	100	105
Reported catches	75	83	62	74	91 <sup>1</sup>	69 <sup>1</sup>	69 <sup>1</sup>	

No information available for Sp. stock biomass, Recruitment (age 1), Mean F

<sup>1</sup> Provisional.

Weights in '000 tons

Forecast for 1993: Catch in 1992 is expected to be 40 000 tons based on Canadian and non-Canadian allocations.

Option Basis	Predicted catch (1993) (tons)	Predicted SSB (1.1.1994)
$F_{0.1} = 0.72$		75 000
$F_{91} =$	No information available	
$F_{max} =$		

Recommendations: TAC for 1993 be set at 75 000 tons based on projection at  $F_{0.1}$ .

## American plaice in Division 3M

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	2	2	2	2	2	2	2	2
Agreed TAC	2	2	2	2	2	2	2	
Reported catches	1.7	3.8	5.6	2.8	3.5 <sup>1</sup>	0.8 <sup>1</sup>	1.6 <sup>1</sup>	
Non-reported catches	No information available							
Total landings								
No information available for Sp. stock biomass, Recruitment (age 2), Mean F								

<sup>1</sup> Provisional.

Weights in '000 tons

Forecast for 1993: No information available for  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$ Recommendations: TAC remain at 2 000 tons for 1993

## American plaice in Divisions 3L, 3N and 3O

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	49	55	48	28	30.3	24.9	25.8	25.8
Agreed TAC	49	55	48	40 <sup>1</sup>	30.3	24.9	25.8	25.8
Reported catches	49.5	60.3	55.0	41.4	40.5 <sup>2</sup>	23.9 <sup>2</sup>	23 <sup>2</sup>	
Non-reported catches	4.7	4.3	0	0.1	0.1	8.1	16	
Total catch	54.2	64.6	55.0	41.5	40.6 <sup>2</sup>	32 <sup>2</sup>	39 <sup>2</sup>	

<sup>1</sup> Effective TAC was 33 585 tons.

Weights in '000 tons

<sup>2</sup> Provisional.Forecast for 1993:

Option Basis	Predicted catch (1993) ('000 tons)	Predicted SSB (1.1.1994) ('000 tons)
<u>ADAPT:</u>		
$F_{0.1}$ = 0.26	14.5	56.9
$F_{max} = F_{91}$ = 0.51	26.0	48.9
<u>L/S:</u>		
$F_{0.1}$ = 0.26	10.5	21.0
$F_{max}$ = 0.50	18.8	17.0
$F_{91}$ = 0.59	22.0	16.0

Recommendations: Fishing mortality must be reduced in 1993 to allow the 1985 and 1986 year-classes to contribute to the SSB. The  $F_{0.1}$  catches derived from both calibration analyses are 10 500 (L/S) and 14 500 (ADAPT). Given the low SSB and preliminary results from the 1992 survey, indicating a further decline, it may be advisable to accept the lower of the  $F_{0.1}$  estimates.

## Witch flounder in Divisions 3N and 3O

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	5	5	5	5	5	5	5	5
Agreed TAC	5	5	5	5	5	5	5	5
Reported catches	9	9	8	7	4 <sup>1</sup>	2.7 <sup>1</sup>	3.3 <sup>1</sup>	
Non-reported catches <sup>2</sup>						1.4	1.5	
Total landings						4.1 <sup>1</sup>	4.8 <sup>1</sup>	

No information available for Sp. stock biomass, Recruitment (Age 2), Mean F

<sup>1</sup> Provisional.

Weights in '000 tons

<sup>2</sup> Data inadequate to estimate misreported catches prior to 1990.

Forecast for 1993: No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$

Recommendations: TAC of 5 000 tons for 1993.

## Yellowtail flounder in Divisions 3L, 3N and 3O

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	15	15	15	15	5	5	7	7
Agreed TAC	15	15	15	15	5	5	7	7
Reported catches	24.0	24.5	16.3	16.2	9.1 <sup>1</sup>	8.9 <sup>1</sup>	7.0 <sup>1</sup>	
Non-reported catches	5.0	5.7	0	0.1	1.1	5.1	8.1	
Total landings	29.0	30.2	16.3	16.3	10.2 <sup>1</sup>	14.0 <sup>1</sup>	15.1 <sup>1</sup>	

No information available for Sp. stock biomass, Recruitment (age 2), Mean F

<sup>1</sup> Provisional.

Weights in '000 tons

Forecast for 1993: No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$

Recommendations: TAC of 7 000 tons for 1993 (see Special Comments below).

Special Comments: Continuation of the current exploitation pattern towards juveniles in some fisheries will result in decreased yield-per-recruit. Catches by non-Contracting Parties have increased in 1990 and 1991. Unless total catches are reduced from present levels of double the TAC, the stock will likely remain at its current low level, with some fisheries dependant only on the strength of recruiting year-classes at very young ages.

## Greenland Halibut in Subareas 0 and 1

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	25	25	25	25	25	25	25	25
Agreed TAC								
Reported catches	10	9	10	10	10 <sup>1</sup>	20 <sup>1</sup>	21 <sup>1</sup>	
No information available for Sp. stock biomass, Recruitment (age 2), Mean F								
<sup>1</sup> Provisional.							Weights in '000 tons	

Forecast for 1993: No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$

Recommendations: TAC be maintained at a level of 25 000 tons.

## Greenland Halibut in Subarea 2 and Divisions 3K and 3L

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	75	100	100	100	100	50	50	50
Agreed TAC	75	100	100	100	100	50	50	50
Reported catches	19	16	31	19	19 <sup>1</sup>	29 <sup>1</sup>	35 <sup>1</sup>	
Mis-reported catches						18	20-40	
Total landings	19	16	31	19	19 <sup>1</sup>	47 <sup>1</sup>	55-75 <sup>1,2</sup>	
No information available for Sp. stock biomass, Recruitment (age 2), Mean F								
<sup>1</sup> Provisional.							Weights in '000 tons	

<sup>2</sup> STACFIS could not reliably estimate total landings in 1991.

Forecast for 1993: No information available for  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$

Recommendations: Catches should be reduced in 1993 to the level advised (50 000 tons), which is for the entire stock, including the portion in the Regulatory Area in Div. 3LM. Until more is known of stock structure, precautionary measures to prevent concentration of effort on one segment of the stock area should be considered.

Special Comments: The effect on the stock of continued catches in the Regulatory Area at 1990 and 1991 levels is unknown, but STACFIS cautions about possible over-exploitation of parts of the stock. Past advice for this stock has been to distribute fishing effort over a wide area if possible. The deepwater survey results indicate that Greenland halibut densities in Div. 3LM in fall 1991 were lower than in Div. 3K.

## Roundnose Grenadier in Subareas 0 and 1

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	8	8	8	8	8	8	8	8
Agreed TAC	8	8	8	8	8	8	8	
Reported catches	0.06	0.09	0.38	0.52	0.05 <sup>1</sup>	0.15 <sup>1</sup>	0.15 <sup>1</sup>	
Total landings	0.06	0.09	0.38	0.52	0.05 <sup>1</sup>	0.15 <sup>1</sup>	0.15 <sup>1</sup>	
No information available for Sp. stock biomass, Recruitment (age 2), Mean F								
<sup>1</sup> Provisional.							Weights in '000 tons	

State of Stock: Not possible to evaluate. Research surveys by Japan and Greenland only fish areas with depths less than 1 500 m and roundnose grenadier occur in deeper waters. The trawlable biomass estimates for Div. 1CD in 1987, 1988 and 1991 were about 45 000 tons. The 1989 estimate of 5 900 tons and 20 300 tons in 1990 were not considered to be realistic. Surveys do not cover the entire stock area.

Forecast for 1993: No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$ .

Recommendations: TAC for 1993 remain at 8 000 tons.

## Roundnose Grenadier in Subareas 2 and 3

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	11	11	11	11	11	11	11	11
Agreed TAC	11	11	11	11	11	11	11	
Reported catches	5	7	8	6	5 <sup>1</sup>	4 <sup>1</sup>	5 <sup>1,2</sup>	
Non-reported catches								
Total landings	5	7	8	6	5 <sup>1</sup>	4 <sup>1</sup>	9-14 <sup>1,2</sup>	
No information available for Sp. stock biomass, Recruitment, Mean F								
<sup>1</sup> Provisional.							Weights in '000 tons	

<sup>2</sup> STACFIS could not reliably estimate total landings in 1991.

Forecast for 1993: No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$ .

Recommendations: TAC for 1993 remain at the precautionary level of 11 000 tons.

Special Comments: It is not anticipated that data necessary to provide more meaningful advice will be available in the near future.



## Capelin in Division 3L

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	60	130	283	90	335	350	<sup>1</sup>	<sup>1</sup>
Agreed TAC	26	55	25	45	46	56	56	32
Reported catches	25	48	20	54	51 <sup>2</sup>	47 <sup>2</sup>	21 <sup>2</sup>	
Non-reported catches								
Total landings	25	48	20	54	51 <sup>2</sup>	47 <sup>2</sup>	21 <sup>2</sup>	
Sp. stock biomass	596	1300	2830	900	3345	3500	1900 <sup>3</sup>	
Recruitment <sup>4</sup> (age 2)	73.2	63.7	87.8	380.4	314.8	353.2	7.7	
Mean F	No information available							

<sup>1</sup> STACFIS concluded that a catch of 50 000 tons would be below 10% exploitation rate. The 1992 advice is now revised to 30 000 tons.

<sup>2</sup> Provisional.

<sup>3</sup> Up to 1990, these are projected. The 1991 estimate is back-calculated.

<sup>4</sup> Recruitment at age 2 in the year shown. 1985 is projected from acoustic surveys. From 1986 to present, measured directly from acoustic surveys.

Weights in '000 tons

Forecast for 1993: 1992 biomass projected to be about one-third of 1989 and 1990 levels during Special Meeting, March 1992. Recent evidence suggests this is optimistic and spawning biomass may be below 500 000 tons. Based on projection from 1992 acoustic estimate, 1993 mature biomass is projected to be 213 000 tons.

No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$ .

Recommendations: Previous advice for 1992 that a catch of 50 000 tons would not exceed 10% exploitation rate revised down to 30 000 tons. Preliminary prognosis for 1993 indicates a catch of 21 000 tons would approximate a 10% exploitation rate.

## Capelin in Divisions 3N and 3O

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	0	0	10	10	28	30	30	30 <sup>1</sup>
Agreed TAC	0	0	10	15	28	30	30	30
Reported catches	+	0	1	7	5 <sup>2</sup>	21 <sup>2</sup>	+ <sup>2</sup>	
Non-reported catches								
Total landings	+	0	1	7	5 <sup>2</sup>	21 <sup>2</sup>	+ <sup>2</sup>	
Sp. stock biomass <sup>3</sup>	212	527	273	560	28	-	-	
Recruitment (age 2)	No information available							
Mean F								

<sup>1</sup> Scientific Council later considered this may exceed 10% exploitation rate.

<sup>2</sup> Provisional.

<sup>3</sup> In some years, these are averages of USSR and Canadian acoustic surveys and in other years only Canadian estimates were available. These are estimates of mature biomass.

Weights in '000 tons

State of Stock: Mean stock size 1981-89 was about 303 000 tons. USSR acoustic survey during 1975-77 indicated mean biomass of 912 000 tons. No fish were located during the normal spawning period in 1991.

Forecast for 1993: No projections but based on parallel patterns of abundance with other spawning stocks, this stock is probably declined to a very low level in 1992 and is expected to be at a low level in 1993.

No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$ .

Recommendations: Recommend that no directed capelin fishery be allowed during 1993.

## Squid in Subareas 3 and 4

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	150	150	150	-	-	-	-	-
Agreed TAC	150	150	150	150	150	150	150	150
Reported catches	1	+	2	1	7 <sup>1</sup>	11 <sup>1</sup>	1 <sup>1</sup>	
No information available for Sp. stock biomass, Recruitment, Mean F								

<sup>1</sup> Provisional.

Weights in '000 tons

Catches: Peaked in 1979 at 162 000 tons, declined to less than 2 000 tons during 1983-88. Increased in 1989 and 1990 but declined again in 1991.

Forecast for 1993: No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$ .

Recommendations: No advice possible.

Special Comments: STACFIS was not able to provide advice without up-to-date information on squid, especially for recruitment. No research is presently being conducted on this stock.

## Shrimp in Subareas 0 and 1

Year	1985	1986	1987	1988	1989	1990	1991	1992
<u>Offshore SA 0+1 (south of 71°N)</u>								
Recommended TAC	36	36	36	36	44	50	50	50
Agreed TAC <sup>1</sup>	42.1	42.1	40.1	40.1	40.1	44.9	46.2	44.2
Reported catches	42.2	44.6	46.2	43.6	49.9 <sup>3</sup>	52.8 <sup>3</sup>	57.3 <sup>3</sup>	-
<u>Offshore SA 1 (north of 71°N)</u>								
Recommended TAC	-	-	-	-	-	-	2.5	-
Agreed TAC	-	-	11.6	11.5	8	6.8 <sup>2</sup>	6.8 <sup>2</sup>	6.4 <sup>2</sup>
Reported catches	4.3	11	10.7	6.7	2.5 <sup>3</sup>	2.1 <sup>3</sup>	1.1 <sup>3</sup>	-
<u>SA 0+1 total (including inshore catches in SA 1)</u>								
Reported catches	54.0	63.1	63.8	60.5	68.1 <sup>3</sup>	69.6 <sup>3</sup>	76.3 <sup>3</sup>	-

<sup>1</sup> Not including catches of vessels <75 GRT.

<sup>2</sup> Including the area from 69°30'N to 71°N, west of 58°W.

<sup>3</sup> Provisional.

Weights in '000 tons

Forecast for 1993: No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$ .

Recommendations: TACs for 1992 and 1993 not to exceed 40 000 tons for Subarea 0 and Subarea 1 offshore south of 71°N.

Special Comments: Concern over continuing high discard rates in Subarea 1.

STACFIS recommended that measures to reduce discards should be established (e.g. increase in mesh size) and that shrimp discarding should be closely monitored.

## Shrimp in Denmark Strait

Year	1985	1986	1987	1988	1989	1990	1991	1992
Recommended TAC	5.0	-	-	-	10	10	10	8
Agreed TAC <sup>1</sup>	6.1	7.5 <sup>2</sup>	7.7 <sup>2</sup>	8.7 <sup>2</sup>	9 <sup>2</sup>	14.1	14.5	13.0
Reported catches	8.1	11.0	12.2	12.6	10.7 <sup>3</sup>	10.3 <sup>3</sup>	8.7 <sup>3</sup>	-
No information available for Sp. stock biomass, Recruitment (age 2), Mean F								

<sup>1</sup> On Greenland side of midline only.

<sup>2</sup> Not including Greenland fishery north of 66°30' N

<sup>3</sup> Provisional.

Weights in '000 tons

Forecast for 1993: No information available for option basis  $F_{0.1}$ ,  $F_{91}$ ,  $F_{max}$ .

Recommendations: Based on the continued depressed condition of the stock, STACFIS advises that the TAC for 1993 should be 5 000 tons. STACFIS anticipates that this TAC level of 5 000 tons will have to be maintained for several years in an attempt to provide protection for the spawning biomass and rebuild the stock.

Special Comments: Discard rates observed in 1990 and 1991 indicated that these removals are significant and STACFIS recommended that discarding should be monitored closely.

## Responses to Questions by the Fisheries Commission

### a) Cod in Divisions 2J, 3K and 3L (SCR Doc. 92/68)

Estimates of the proportion of the cod biomass in Div. 3L in the Regulatory Area were updated to include the 1991 research vessel survey data as follows:

Season RV survey conducted	Years RV survey conducted	Range of proportions of Div. 3L biomass occurring in the Regulatory Area (1991 value in brackets)	Average proportion (%)
Winter	1985-86	23.8-26.8	25.3
Spring	1977-91	0.4-10.8 (10.8)	3.5
Autumn	1981-91	0.5-7.7 (2.9)	3.0

Results of the autumn surveys conducted in all three Divisions (2J, 3K, and 3L) by Canada since 1981, continued to show that the proportion of the cod in the Regulatory Area at that time of year was less than 1%, on average, of the total Div. 2J+3KL biomass. The average breakdown of biomass by Division was as follows:

Division	Relative proportion of Div. 2J+3KL biomass (%)
2J	36
3K	36
3L	28

Survey data indicated that the proportion of total stock biomass occurring in the Regulatory Area was less than 10% in winter, less than 5% on average in spring and autumn, and there were no annual trends. However, information available from research vessel surveys and the commercial fisheries in Div. 2J+3KL in recent years (1989-91) suggests that there has been a shift in distribution in a southerly direction and as well to deeper waters where for most years there was a higher proportion of younger cod in the Regulatory Area. Estimates for winter surveys showed that age compositions were similar in both areas. Age compositions for the entire Div. 2J+3KL cod research vessel survey biomass were similar to those which occurred in Div. 3L inside the 200-mile fishing zone.

b) **Squid in Subareas 3 and 4**

In the recent past, no new information pertaining to squid in SA 3 and 4 was available for review at this meeting. The resource only occurs in the NAFO area during summer through migration from more southern areas. Availability has been extremely variable. No research is planned for 1992 or future years, and STACFIS will not be able to provide any information to the Fisheries Commission pertaining to squid in SA 3 and 4 until this situation changes.

c) **Capelin in Divisions 3N and 3O**

No further analyses have become available since the last meeting, and STACFIS had no reason to alter the conclusions in the previous report. In view of the potential for large variances associated with projections for capelin stocks and its importance as a prey species especially for commercially important predators such as cod and flatfish, STACFIS reiterated its recommendation of a conservative approach to management. Consequently, STACFIS recommended that a closure of the commercial fishery in 1993 be placed to provide maximum protection for the stock.

It was concerned about the lack of response from the Fisheries Commission to its answer to the 1991 request, except for a repeat of the question by Fisheries Commission with only minor word changes. Some comments on the previous response would have been useful in formulating a response to the present request.

d) **Standard mesh size for otter trawling and other technical measures**

The following recommendations were presented by the Scientific Council:

- A standard mesh size of 130 mm, irrespective of material used in the construction of net (today are 120 mm made of hemp, polyamide fibres or polyester and 130 mm made of manila or any other material), should be adopted as that is unlikely the expected selectivity of trawl nets made of different materials is significantly different.

- Derogation from the use of 130 mm mesh size for otter trawling are justified only for capelin and squid fisheries; presently, there is a legal minimum mesh size 60 mm for fishing for squid in the Regulatory Area and no legal minimum mesh size for capelin.

- Consideration should be given to adopting a one-mesh size rule for those vessels wishing to use meshes less than 130 mm. If this condition is not imposed there is considerable risk that fishermen will deliberately exploit species other than capelin and squid with nets of less than 130 mm mesh but, when their catches are inspected, will claim that 130 mm mesh was used to take these catches.

- Reduction in the catches of juvenile flatfish could be implemented through the following technical measures: closed areas, closed seasons, modification of the rigging of towed gears, and improvement in codend selectivity by increase in mesh size or effective mesh size.

- Reduction of the harvest of juvenile redfish in Div. 3M could be possible through enforcement of legally rigged 130 mm mesh size, and other factors as seasonability (or regionability) of redfish fisheries might be relevant in this context.
- The utilization (yield-per-recruit) of cod in Div. 3M would improve if the fishing vessels employ legally-rigged 130 mm mesh and then rigorous enforcement of legally rigged 130 mm mesh should eliminate most of juvenile fish catches and thereby increase yield-per-recruit of cod.
- It was noted for other effects of enforcement of 130 mm mesh size that there are a number of other fisheries which exhibit symptoms similar to those described above (e.g. Div. 3LN cod and redfish). For all of these fisheries, enforcement of legally-rigged 130 mm mesh would result in increased yield-per-recruit. In addition, the state of the stocks of species caught as by-catch in various areas would also be improved (e.g. American plaice in Div. 3M).
- Minimum legal landing sizes should be initiated as indicated below:

Cod	40-45 cm
American plaice	25-28 cm
Yellowtail flounder	25-28 cm

- With respect to activity of non-Contracting Parties their vessels are not bound by NAFO regulations and are unlikely to be affected by any measures implemented by NAFO to improve the selectivity of trawls.

If the selectivity of trawlers of NAFO members is improved, the numbers of young fish caught will be reduced leading to an immediate increase in the numbers and biomass of young fish in the sea. This will give rise, at a later date, to an increase in the numbers and biomass of fish of all ages. Non-Contracting Parties will benefit both immediately and in the longer term from this increase and it is possible that they will take much of the expected gain in yield and that increase in biomass will be less than that achievable if all trawlers adhered to NAFO regulations.

### Environmental Research

The Environmental Subcommittee of STACFIS met on 9 and 13 June (Chairman, M. Stein, EEC-Germany). The Council noted the growing interest on environmental issues in relation to the status of certain stocks and saw the value of having an overall view of environmental conditions before the stock assessments were undertaken. Accordingly, the Council endorsed the recommendation that the Environmental Subcommittee meet at the beginning of the June Meeting of the Scientific Council. The Council, however, noted the discussion on the problem of how to incorporate environmental information in the assessment procedures, and was encouraged by the Subcommittee's continuing work on finding methods of linking environmental conditions to changes in the fisheries.

The Council was particularly pleased to note attempts were being made to cooperatively computerize and analyze some of the large databases in Germany and Russia.

### Ageing Techniques

The Council noted that the collaborative ageing work on silver hake being done between Canada and USSR/Russia will result in a comprehensive manual, when the current work on nucleotides was completed.

The Council was pleased the ageing workshop held at St. John's, Newfoundland during 3-12 December 1991 provided scientists from Canada, Denmark, France, Germany, Portugal and Spain involved in ageing techniques for American plaice and Greenland halibut, a forum for discussion, comparison and understanding of techniques employed on otoliths and scales. It was noted that further exchanges of materials will take place and a follow-up meeting is proposed for probably sometime in 1993.

In addition, the Council noted two further scientific papers on ageing were reviewed by STACFIS.

### RESEARCH COORDINATION

- a) The Council reiterated the great concern as expressed by STACREC on the delays in the national reporting of fishery statistics through the STATLANT 21A and 21B system. In addition to STATLANT 21A data, the delays now being experienced in receiving the STATLANT 21B data (1989-91) were of particular concern. While these delays in submission of data were seriously affecting the stock assessment work and the publication of the Statistical Bulletin, the Council was also concerned that these delays seriously affect other NAFO business.

The Council endorsed the STACREC suggestion that all data collected by other Standing Committees, particularly STACTIC and STACFAC, be identified and relevant data be made available for use in the stock assessments prior to the June meeting.

- b) The Council agreed with STACREC on the need to resolve the difficulties associated with obtaining STATLANT data in time for stock assessments, and discussed the recommendation by STACREC that a new Rule be inserted in the Scientific Council Rules of Procedure to bring to the attention of the General Council and the Fisheries Commission the grave consequences to the stock assessment process, and subsequent fisheries management decisions, of the increasing delay in the provision of fisheries data. It was agreed to pursue actively the establishment of a legal obligation on Contracting Parties with regard to the schedule for the provision of data envisaged in Article VI, para 3 which provides

"the Contracting Parties shall furnish to the Scientific Council any available statistical and scientific information request by the Council for the purpose of this Article".

It was suggested that the deadline date of 15 April for STATLANT 21A data be changed to 15 May, specifically to accommodate difficulties faced by some statistical offices to meet the earlier deadline date and to ensure all nominal data would be available in advance of the June Meeting of the Scientific Council.

### Biological Sampling

- a) The Council noted the data necessary for the *Inventory of Sampling Data* for the period 1985-89 were received, and the publication will be completed this year.
- b) The Council noted with concern that the level of biological sampling of the fisheries in the Regulatory Area carried out by the national programs in 1993 may be severely decreased due to funding constraints. Emphasizing that without adequate sampling in the Regulatory Area the assessment of stocks will be severely hampered, the Council urged Contracting Parties to maintain the representative biological sampling.

### Biological Surveys

The Council noted STACREC had reviewed the inventories of surveys conducted in 1991 and surveys proposed for 1992 and early 1993. The Council again welcomed the publication of the list of surveys on a stock by stock basis in the SCS Document Series.

The Council was concerned that there was a high probability that the usual surveys conducted by the Russian Federation may be cancelled in 1992 and 1993, and hoped that at least the more essential surveys will not be discontinued. In general the Council agreed with STACREC that the main priority should be to maintain the existing survey programs rather than to initiate new ones.

The Council endorsed the STACREC recommendation that descriptions of surveys related to Greenland halibut be compiled and considered in terms of better coordination.

### Other Matters

The Council noted that the *List of Fishing Vessels* for 1989 was published by the Secretariat, and that data are being requested for the next triennial publication.

### PUBLICATIONS

The list of scientific publications is presented in Annex 3 of this report.

The Council noted that there were no significant departures from the previous year's production costs and revenues and observed that a noticeable reduction in the free mailing list was made, while the subscription list remained about the same.

### RULES OF PROCEDURE

The Council discussed the matter of deadline dates for submission of fisheries data, and resolved to pursue this issue further through consultations with the General Council and the Fisheries Commission.



## COLLABORATION WITH OTHER ORGANIZATIONS

The Chairman informed the Council that the Joint ICES/NAFO Working Group workshop on survey methodology had been rescheduled to 5-12 October 1992 to avoid a conflict with the dates of the NAFO Annual Meeting. The Council noted the report of that meeting would be available for review at the June 1993 meeting.

The Council noted the plans to host the 15th Session of the CWP 8-14 July 1992 at NAFO Secretariat had progressed well, and the Council expressed appreciation to the Mayor of Dartmouth for the invitation to the participants to a wine and cheese reception at City Hall on 10 July 1992.

The Council noted STACREC had addressed the Scientific Council representation to this CWP meeting in July 1992.

## FUTURE SCIENTIFIC COUNCIL SESSIONS AND MEETINGS

The following Sessions were agreed to be held in 1992-93:

- Special Session on 9-11 September 1992 at NAFO Headquarters titled "State-of-the-Art in Fish Stock Assessment: a Tutorial/Workshop on Calibration Methods and Their Practical Use"
- Special Session in September 1993
- Special Session in 1994

The following Meetings were agreed to be held in 1992-93:

### Annual Meeting and Special Session in September 1992

The Council would next meet for the Annual Meeting of NAFO at the Holiday Inn, Dartmouth, Nova Scotia, Canada, during 14-18 September 1992.

### Scientific Council Meeting in June 1993

The Council confirmed that the Scientific Council together with its Standing Committees and Subcommittee would meet during 2-16 June 1993. The location, not settled yet, could be either in Halifax or Dartmouth, Nova Scotia, Canada.

### Annual Meeting and Special Session in September 1993

The Council noted the proposed dates for the Annual Meeting to be held at the Holiday Inn, Dartmouth, Nova Scotia, Canada, were 6-10 September 1993. Since the preceding week in which the Council would normally have the Special Session would be separated by a long weekend, the Council agreed to defer until September 1992, the decision on the dates for the 1993 Special Session.

### Scientific Council Meeting in June 1994

The Council agreed on the tentative dates of 8-22 June 1994 for the Meeting of the Scientific Council.

#### NOMINATION AND ELECTION OF OFFICERS

The Council elected H. P. Cornus (EEC-Germany) the next Chairman of the Standing Committee on Fishery Science. He will take office after the Annual Meeting of September, 1992.

#### OTHER MATTERS

Further to the Council's comments at the June 1991 Meeting with respect to inadequacies of the space at the NAFO Headquarters for Scientific Council meetings, the Council noted the Executive Secretary was making every attempt to find a more suitable location. Although an alternative was not found for this meeting of June 1992, it was hoped that this would be achieved for the June 1993 Meeting.

The Scientific Council Meeting was adjourned on 17 June 1992.

## Annex 1. List of Participants

### Scientific Council Meeting

Dartmouth, Nova Scotia, Canada

3-17 June 1992

#### CANADA

Atkinson, D. B.	Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Nfld.
Baird, J. W.	" " " " " " " "
Bishop, C. A.	" " " " " " " "
Brodie, W. B.	" " " " " " " "
Carscadden, J. E.	" " " " " " " "
Mertz, G. J.	" " " " " " " "
Miller, D.	" " " " " " " "
Parsons, D.	" " " " " " " "
Power, D.	" " " " " " " "
Walsh, S. J.	" " " " " " " "
Ross, C. K.	Ocean Circulation Div., BIO, P. O. Box 1006, Dartmouth, N.S.
Drinkwater, K. F.	Coastal Oceanography, BIO, P. O. Box 1006, Dartmouth, N.S.
Mohn, R.	Marine Fish Division, BIO, P. O. Box 1006, Dartmouth, N.S.
O'Boyle, R.	" " " " " " " "
Showell, M. A.	Marine Fish Division, BIO, P. O. Box 1006, Dartmouth, N.S.
Waldron D. E.	" " " " " " " "
Beckett, J. S.	Fisheries Research Branch, DFO, 200 Kent St., Ottawa, Ontario
Rivard, D.	" " " " " " " "
Keeley, J. R.	Marine Environmental Data Service (MEDS), 200 Kent St., Ottawa, Ontario
Savard, L.	Institut Maurice-Lamontagne, DFO, Mont-Joli, Quebec

#### CUBA

Dominguez, R.	Cuban Fishing Fleet Representative, c/o Pickford and Black, P. O. Box 117, Halifax, Nova Scotia, Canada, B3J 2X1
Carrasco, N.	Cuban Fishing Fleet, c/o Pickford and Black, P. O. Box 117, Halifax, Nova Scotia, Canada B3J 2X1

#### DENMARK

#### GREENLAND

Carlsson, D. M.	Greenland Fisheries Research Institute, Tagensvej 135, DK-2200, Copenhagen
Kannevorff, P.	" " " " " " " "
Siegstad, H.	Greenland Fisheries Research Institute, Box 570, 3900 Nuuk, Greenland

#### EUROPEAN ECONOMIC COMMUNITY (EEC)

Armstrong, D. W.	Commission of European Communities, DGXIV C-1, Rue Joseph II, B-1049, Brussels, Belgium
Lassen, H.	Danmarks Fiskeri-og Havundersøgelser, Charlottenlund Slot, DK-2920 Charlottenlund, Denmark
Avila de Melo, A.	Instituto Nacional de Investigacao das Pescas, 1400 Lisbon, Portugal
Godinho, M. L.	" " " " " " " "
Moguedet, P.	IFREMER, B. P. 4240, F-97500 Saint Pierre et Miquelon

- Cross, D. EUROSTAT, Commission of the EC, B. P. 1907, Luxembourg (Grand Duchy)  
 Cornus, H. P. Institut für Seefischerei, Palmaille 9, D-2000 Hamburg 50, Germany  
 Rätz, H-J. " " " " " "  
 Ernst, P. Bundesforschungsanstalt, Institut für Ostseefischerei, An der Jägerbäk 2,  
 D-(0)-2510 Rostock-Marienehe, Germany  
 Stein, M. Institut für Seefischerei, Palmaille 9, D-2000 Hamburg 50, Germany  
 de Cárdenas, E. Instituto Espanol de Oceanografía, Aptdo 240, Santander, Spain  
 Vazquez, A. Instituto de Investigaciones Marinas, Muelle de Bouzas, Vigo, Spain  
 Zamarro, J. Instituto de Invest. Marinas, Eduardo Cabello No. 6, 36208 Vigo,  
 Pontevedra, Spain  
 Jones, B. W. Fisheries Laboratory, Lowestoft, Suffolk, United Kingdom

#### ICELAND

- Skúladóttir, U. Marine Research Institute, Skulagata 4, P. O. Box 1390, 121-Reykjavik

#### JAPAN

- Koutarou, Y. National Research Institute of Far Sea Fisheries, Distant-Water Groundfish  
 Section, 5-7-1 Orido, Shimizu 424

#### RUSSIAN FEDERATION

- Rikhter, V. A. AtlantNIRO, 5 Dmitry Donskoy Street, Kaliningrad, 236040  
 Kovalev, S. PINRO, 6 Knipovich Street, Murmansk, 183763  
 Serebryakov, V. P. Institute of Marine Research, P. O. Box 1870, N-5024, Bergen Nordnes, Norway

#### UNITED STATES OF AMERICA (USA)

- Mayo, R. K. U.S. Dept. of Commerce/NOAA, Northeast Fisheries Center, National Marine  
 Fisheries Service, Woods Hole, MA 02543

Participants of June 1992 Scientific Council Meeting



(From left to right)

FRONT ROW

SECOND ROW

THIRD ROW

FOURTH ROW

- P. Kannevorff; P. Moguelet; H. J. Ratz; D. Carlsson; D. Parsons; C. A. Bishop; F. Keating; N. Carrasco
- H. Siegraci; H. Champion; L. Chepel; A. Avila de Melo; D. B. Atkinson; V. P. Serebryakov; H. Lassen; M. Stein; T. Amaratunga; W. B. Brodie;  
D. M. Armstrong
- K. Yokawa; H. P. Cornus; S. Kovalev; U. Skidiadótíttir; L. Savard; D. E. Waldron; R. Mayo; M. L. Godinho; A. Vazquez; B. Cruikshank; D. Auby
- J. E. Carscadden; M. Showell; V. A. Rikhter; P. Ernst; E. de Cárdenas; D. Cross; J. Zamarro; B. W. Jones; J. W. Baird

## Annex 2. Agenda

### Scientific Council Meeting

Dartmouth, Nova Scotia, Canada

3-17 June 1992

- I. Opening (Chairman: V. P. Serebryakov)
  1. Appointment of rapporteur
  2. Adoption of agenda
  3. Attendance of observers
  4. Plan of work
  5. Report of proxy votes (by Executive Secretary)
  
- II. Fishery Science (STACFIS Chairman: D. B. Atkinson)
  1. General review of catches and fishing activity in 1991
  2. Stock assessments
    - a) Review of assessment methods to be used.
    - b) Stocks within or partly within the Regulatory Area, as requested by the Fisheries Commission with the concurrence of the Coastal State:
      - Cod (Div. 3NO; Div. 3M)
      - Redfish (Div. 3LN; Div. 3M)
      - American plaice (Div. 3LNO; Div. 3M)
      - Witch flounder (Div. 3NO)
      - Yellowtail flounder (Div. 3LNO)
      - Capelin (Div. 3NO)
      - Squid (Subareas 3 and 4)
      - [Note also Annex 1, Item 3 concerning cod in Div. 2J+3KL, Item 4 concerning juvenile flatfishes in the NAFO area, Item 5 concerning cod in Div. 3M, Item 6 concerning redfish in Div. 3M, Item 7 concerning squid in SA 3 and 4, Item 8 concerning capelin in Div. 3NO and Item 10 concerning a minimum fish size for cod in the different parts of the Regulatory Area]
    - c) Stocks within the 200-mile fishery zone in Subareas 2, 3 and 4, as requested by Canada:
      - Greenland halibut (Subarea 2 and Div. 3KL)
      - Roundnose grenadier (Subareas 2 and 3)
      - Silver hake (Div. 4VWX)
      - Capelin (Div. 3L)

- d) Stocks within the 200-mile fishery zone in Subarea 1 and at East Greenland, as requested by Denmark on behalf of Greenland:
  - Redfish (Subarea 1) (if possible, by species)
  - Northern shrimp (in Denmark Strait and off East Greenland)
  - Other finfish and invertebrates (Subarea 1)
- e) Stocks overlapping the fishery zones in Subareas 0 and 1, as requested by Canada and by Denmark on behalf of Greenland:
  - Greenland halibut (Subareas 0 and 1)
  - Roundnose grenadier (Subareas 0 and 1)
  - Northern shrimp (Subareas 0 and 1)
3. Environmental research (Subcommittee Chairman: M. Stein)
  - a) Chairman's report
  - b) Marine Environmental Data Service (MEDS) Report for 1991
  - c) Review of environmental studies in 1991
  - d) Overview of environmental conditions in 1991
  - e) National representatives
  - f) Invited lecture on Labrador Sea/Davis Strait research (tentatively)
  - g) Other matters
4. Ageing techniques and validation studies
  - a) Report on methods of ageing silver hake otoliths
  - b) Reports on the otolith exchanges of American plaice (Div. 3LM) and Greenland halibut
  - c) Other ageing and validation studies reported
5. Gear and selectivity studies
  - a) Reports on gear and selectivity studies
  - b) Proposals for gear and selectivity studies
  - c) Review of a standard 130 mm mesh size for otter trawling in the Regulatory Area
6. Review of SCR and SCS documents not considered in items 1 to 5 above
7. Other matters
  - a) Review of arrangements for conducting stock assessments and documentation of assessments
  - b) Progress report on the 8-10 September 1992 Special Session on "State-of-the-Art in Fish Stock Assessment: a Tutorial/Workshop on Calibration Methods and Their Practical Use" (co-covenanters R. K. Mohn, Canada and R. Cook, EEC)

- c) Consideration of a topic for a Special Session in 1993
- d) Theme for the 1994 Special Session
- e) Other business

### III. Research Coordination (STACREC Chairman: A. Avila de Melo)

#### 1. Fishery Statistics

- a) Progress report on Secretariat activities in 1991/92
  - i) Acquisition of STATLANT 21A and 21B reports for recent years
  - ii) Publication of statistical information
  - iii) Updating of fishery statistics database
- b) Review of reporting requirements for submission of STATLANT 21A and 21B statistics
- c) Fifteenth Session of CWP, July 1992

#### 2. Biological Sampling

- a) Progress report on activities in 1991/92
- b) Forms and deadlines for submission of data
- c) Review of national sampling programs for the second half of 1992, and 1993

#### 3. Biological Surveys

- a) Review of survey activities in 1991
- b) Survey plans for 1992 and 1993, and their use in 1993 assessments
- c) Review of stratification scheme
- d) Coordination of surveys in 1992-93

#### 4. Other Matters

- a) List of fishing vessels for 1989
- b) Tagging activities reported for 1991
- c) Review of relevant SCR and SCS documents not considered in items 1 to 3 above
- d) Other business

### IV. Publications (STACPUB Chairman: H. Lassen)

- 1. Review of STACPUB membership
- 2. Review of scientific publications since June 1991
- 3. Production costs and revenues for Scientific Council publications



4. Promotion and distribution of scientific publications
    - a) Publicity and response regarding the Journal
    - b) Invitational papers for the Journal
  5. Editorial matters regarding scientific publications
    - a) Editorial activities
    - b) Progress review: Journal issue of 1989 Special Session
    - c) Review of general editorial process
    - d) Review of Editorial Board
  6. Papers for possible publication
    - a) Review of proposals resulting from the 1991 meetings
    - b) Review of contributions to the 1992 meetings
  7. Microfiche projects
    - a) Review of requests for microfiche of ICNAF documents
    - b) Question of microfiching NAFO research documents
  8. Other matters
- V. Rules of Procedure
- VI. Collaboration with other Organizations
1. Joint ICES/NAFO working group on harp and hooded seals
  2. Fifteenth Session of CWP, July 1992
- VII. Arrangements for Special Sessions
- VIII. Future Scientific Council Meetings, 1992 and 1993
- IX. Nomination and election of Chairman of the Standing Committee on Fishery Science.
- X. Other Matters
- XI. Adoption of Reports
1. Committee reports from this meeting (STACFIS, STACREC, STACPUB)
  2. Scientific Council Report, June 1992 (receipt and adoption)
- XII. Adjournment

## Annex 3. Scientific Publications

### *Journal of Northwest Atlantic Fishery Science*

This publication began after the ICNAF Research Bulletin which terminated with No. 14 in September 1979. Each annual volume consists of one or more numbers.

Vol. 1	-	One number, 10 papers, 112 pages (Published December 1980)
Vol. 2	-	One number, 10 papers, 76 pages (Published October 1981)
Vol. 3	-	Two numbers, 17 papers, 180 pages (Published May and December 1982)
Vol. 4	-	One number, special issue on early stages of marine fishes, 424 pages (Published July 1983)
Vol. 5	-	Two numbers, 26 papers, 224 pages (Published January and November 1984)
Vol. 6	-	Two numbers, 17 papers, 179 pages (Published June and December 1985)
Vol. 7	-	Two numbers, 18 papers, 177 pages (Published December 1986 and December 1987)
Vol. 8	-	One number, 7 papers, 88 pages (Published December 1988)
Vol. 9	-	Two numbers, 13 papers, 159 pages (Published September and December 1989)
Vol. 10	-	One number, special issue of an invited review paper, 57 pages (Published December 1990)
Vol. 11	-	One number, 7 papers, 80 pages (Published February 1991)
Vol. 12	-	One number, 7 papers, 84 pages (Published January 1992)
Vol. 13	-	One number, 7 papers, 114 pages (Published December 1992)
Vol. 14	-	One number, 14 papers, 160 pages (Published December 1992)

### NAFO Scientific Council Studies

This publication replaced ICNAF Special Publication, which terminated with Number 11 (revised) in August 1980, and ICNAF Selected Papers, which terminated with Number 6 in January 1980. One or more numbers are published annually.

No. 1	-	Miscellaneous papers (11), 101 pages (Published March 1981)
No. 2	-	Manual on groundfish surveys, 56 pages (Published December 1981)
No. 3	-	Miscellaneous papers (8), 82 pages (Published April 1982)
No. 4	-	Papers on remote-sensing applications to fishery science (12), 98 pages (Published September 1982)
No. 5	-	Papers on environmental conditions in 1970-79 (12), 114 pages (Published December 1982)
No. 6	-	Miscellaneous papers (8), 104 pages (Published December 1983)
No. 7	-	Miscellaneous papers (9), 98 pages (Published August 1984)
No. 8	-	Miscellaneous papers (12), 96 pages (Published April 1985)
No. 9	-	Papers on squid (17), 180 pages (Published November 1985)
No. 10	-	Miscellaneous papers (9), 112 pages (Published August 1986)
No. 11	-	Miscellaneous papers (11), 127 pages (Published August 1986)
No. 12	-	Miscellaneous papers (8), 90 pages (Published March 1988)
No. 13	-	Miscellaneous papers (5), 82 pages (Published November 1989)
No. 14	-	Miscellaneous papers (6), 74 pages (Published May 1990)
No. 15	-	Miscellaneous papers (7), 68 pages (Published May 1991)
No. 16	-	Papers on Management Under Uncertainties (22), 190 pages (Published November 1991)

### NAFO Scientific Council Reports

This publication (issued annually) replaced ICNAF Redbook which terminated with the issue in December 1979.

1980	-	Reports of seven meetings in 1979 and 1980, 190 pages (Published December 1980)
1981	-	Reports of four meetings in 1981, 148 pages (Published December 1981)
1982	-	Reports of two meetings in 1982, 110 pages (Published December 1982)
1983	-	Reports of three meetings in 1983, 152 pages (Published December 1983)
1984	-	Reports of three meetings in 1984, 126 pages (Published December 1984)
1985	-	Reports of three meetings in 1985, 146 pages (Published December 1985)
1986	-	Reports of three meetings in 1986, 156 pages (Published December 1986)
1987	-	Reports of three meetings in 1987, 138 pages (Published December 1987)
1988	-	Reports of two meetings in 1988, 150 pages (Published December 1988)
1989	-	Reports of two meetings in 1989, 180 pages (Published December 1989)

- 1990 - Reports of two meetings in 1990, 188 pages (Published December 1990)  
 1991 - Reports of two meetings in 1991, 164 pages (Published December 1991)  
 1992 - Reports of four meetings in 1992, 212 pages (Published December 1992)

#### NAFO Statistical Bulletin

This publication replaced ICNAF Statistical Bulletin which terminated with Vol. 28 (revised). The volume numbering continues the series.

- Vol. 29 - Fishery statistics for 1979, 290 pages (Originally published July 1981; revised edition published November 1984)  
 Vol. 30 - Fishery statistics for 1980, 280 pages (Originally published August 1982; revised edition published October 1984)  
 Vol. 31 - Fishery statistics for 1981, 276 pages (Originally published September 1983; revised edition published March 1985)  
 Vol. 32 - Fishery statistics for 1982, 284 pages (Published December 1984)  
 Vol. 33 - Fishery statistics for 1983, 280 pages (Published December 1985)  
 Vol. 34 - Fishery statistics for 1984, 304 pages (Published December 1986)  
 Vol. 35 - Fishery statistics for 1985, 322 pages (Published December 1987)  
 Vol. 36 - Fishery statistics for 1986, 304 pages (Published October 1989)  
 Vol. 37 - Fishery statistics for 1987, 295 pages (Published April 1990)  
 Vol. 38 - Fishery statistics for 1988, 307 pages (Published February 1991)  
 Vol. 39 - Fishery statistics for 1989, 300 pages (Published February 1993)

#### NAFO List of Fishing Vessels

This triennial publication replaced ICNAF List of Fishing Vessels which terminated with the 1977 list in April 1980.

- 1980 - List for 1980, 48 pages (Published March 1983)  
 1983 - List for 1983, 43 pages (Published April 1985)  
 1986 - List for 1986, 48 pages (Published July 1988)  
 1989 - List for 1989, 44 pages (Published January 1992)

#### Inventory of Sampling Data

The first publication under the aegis of NAFO was published in April 1989. The "Inventory of Sampling Data 1979-84" (250 pages) was prepared in the same format as the previous ICNAF inventory.

#### NAFO Index of Meeting Documents

This publication contains lists of all documents along with a subject and author index of Scientific Council documents issued during a 5-year period.

- 1979-84 - 146 pages (Published March 1985)  
 1985-89 - 116 pages (Published December 1990)



## Scientific Council Special Session on State-of-the-Art in Fish Assessment: A Tutorial/Workshop on Calibration Methods and Their Practical Use

The Special Session on "State-of-the-Art in Fish Assessment: a Tutorial/Workshop on Calibration Methods and Their Practical Use" hosted by the Scientific Council with R. K. Mohn (Canada) and R. Cook (EEC-UK) as co-conveners, was held at NAFO Headquarters in Dartmouth, Nova Scotia, Canada, during 9-11 September 1992. The Special Session was attended by scientists from Australia, Canada, Denmark (Greenland), EEC (Denmark, France, Germany, Portugal, Spain, United Kingdom), Japan and the Russian Federation.

The basic format for the 3-day session consisted of morning lectures and afternoon hands-on working groups. The morning lecture periods were broken into subsections dealing with basics of Virtual Population Analysis, *ad hoc* tuning methods, Laurec-Shepherd method and ADAPTive method of calibration; with opportunities to discuss specific problems. The final day lecture session addressed diagnostics and included a discussion on research and contemporary topics. The afternoon hands-on sessions provided examples for computer manipulations of the data. The small groups of computer users had the opportunity of addressing specific concerns, questions and clarifications with the co-conveners as well as scientists in the session knowledgeable about the contemporary methods of calibration.

The participants agreed the Special Session was a good idea and successfully carried out, and it should be done again. The format of prepared material and lectures in the morning with hands-on sessions in the afternoons worked well. The number of the participants was about optimal and it would have been difficult to accommodate many more. The broad range of expertise among the participants proved to be beneficial in that the more experienced helped the others. On the other hand the broad range made it more difficult to keep everyone interested while assuring that beginners were not lost. Depending on the topic, future sessions might benefit from targeting or screening the level of experience in the participants.

Participant feedback, in the form of the questionnaires, evaluation sessions and casual conversation, was quite positive. The overwhelming majority of participants expressed an interest in attending a similar workshop in 1-3 years. A particularly useful comment from the evaluation session was that a series of increasingly difficult examples would have helped to bridge the gap between the Workbook examples and real fisheries data. More feedback during the sessions would have helped the conveners, but a specific recommendation on how this might be achieved is not obvious.

The computer facilities worked well, especially considering the fact that everyone brought their own hardware, software and systems. A printer would have improved productivity, especially a laser printer. Future workshops should assure that sufficient numbers of computers are available and that software and data are distributed before the meeting.

It was recommended that the lecture notes on the ICES tuning methods be incorporated into the Workbook so that its coverage of current methods will be more complete.



## Scientific Council Meeting

The Scientific Council met at the Holiday Inn, Dartmouth, Nova Scotia, Canada, during the 14th Annual Meeting held 14-18 September 1992. Representatives attended from Canada, European Economic Community (EEC), Japan, and the Russian Federation (Russia) (Annex 1). In the absence of the Chairman, V. P. Serebryakov (Russia), the Vice-Chairman, H. Lassen (EEC-Denmark), chaired the meeting. The Rapporteur was T. Amaratunga, Assistant Executive Secretary.

Full proceedings of this meeting are presented in *NAFO Scientific Council Reports, 1992*.

The Council welcomed observers from the Republic of Korea.

The Agenda (Annex 2) was adopted on provision that the General Council or the Fisheries Commission might have additional specific requests for the Scientific Council during this meeting. Special note was made with respect of catch options for the stock of cod in Div. 2J+3KL that the Council was still in the same position as in June and no update of catch projections was possible. Until the October-December survey results become available, no further considerations would be possible.

The Scientific Council reconvened several times during the meeting to discuss the questions posed by the Fisheries Commission. It was noted the verbal responses conveyed by the Chairman would be reflected in the report of the Fisheries Commission.

Brief summaries of the Standing Committees' Reports and other matters considered by the Scientific Council are given below.

### FISHERY SCIENCE

#### Stock Assessments

STACFIS addressed the joint request for advice from Canada and Denmark (in respect of Greenland) on the Greenland halibut in terms of the total area of stock distribution. The Council endorsed this advice as given below.

- (Q. Should any overall TAC be subdivided by NAFO divisions?):

Until more is known of stock structure, precautionary measures to prevent concentration of effort of one segment of the stock should be considered, and one such measure would be to distribute the TAC over the various Divisions inhabited by the stock; and, for management purposes it may be considered to establish separate allocations for inshore and offshore areas in Subarea 1.

- (Q. What should be the implications of changing the current geographic distribution of catches?):

The stock structure of Greenland halibut in the Northwest Atlantic is not well understood and therefore no precise prediction of the effects of redistribution of catches

can be made. Given that this stock may be separated into geographic components, STACFIS is concerned that any concentration of catches could exert high mortality on a single stock component. Such concentration could lead to serious local over-exploitation. The distribution of Greenland halibut fisheries in recent years indicates that concentrations occur in the Davis Strait, Div. 0B and in the Regulatory Area at the border between Div. 3L and 3M. Given, however, the lack of knowledge on the stock structure and population size, the effect of these fisheries on the status of either total stock or a component of the stock is largely unknown. It follows from this that STACFIS is unable to assess the impact of geographic redistribution of catches.

(Q. What proportion of the stock occurs within the waters of the jurisdiction of the Coastal States?):

Greenland halibut occurs on the slope of the continental shelf down to a depth of about 2 000 m, and the fishery on Greenland halibut ranges down to 1 500 m at present. The known area of occurrence in Subareas 0+1 is within the fishing zones of Canada and Greenland. The fishing zone of Canada in Subarea 2 + Div. 3K includes the entire continental shelf and all biomass of Greenland halibut in this area is therefore expected to be inside the Canadian fishing zone. The area of occurrence in Div. 3LN is partly in the Regulatory Area, while that in Div. 3M is entirely in the Regulatory Area. Available information suggests seasonal migrations, particularly in the north-south direction.

The main surveys in Subareas 0+1 were conducted in August-September by Japan/Greenland (down to 1 500 m) and later in the fall by GDR/USSR (down to 1 500 m). These surveys indicate an approximate 50:50 split of the surveyed biomass between Div. 0B and Subarea 1 (excluding the fjords). At present there is no current biomass estimate available for Div. 0A, but Greenland halibut is known to be present in this Division.

The Canadian survey found the density of Greenland halibut in the Regulatory Area to be lower than that found further north in the Canadian zone. Based on a single survey, it is not possible to estimate which proportion of the stock occurs in the Regulatory Area relative to the stock in Subareas 0, 1, 2, and 3.

#### **Data Availability and Designated Experts**

The Council agreed with STACFIS and STACREC that Contracting Parties should make all relevant data necessary to complete assessments available to Designated Experts well in advance of the June 1993 Meeting, in order to adequately conduct assessments on the fish stocks.

### **RESEARCH COORDINATION**

#### **Fishery Statistics**

The Council noted with concern that data for 1989, 1990 and 1991 were still outstanding from EEC-France, France-SP and Norway, and that the lack of those data was seriously delaying the publication of the NAFO Statistic Bulletins.



## **Review of Report of CWP 15th Session, July 1992**

The Council was pleased that, in accordance with the Council's proposals in 1990 and 1991, the CWP is undertaking a review of the STATLANT 21 questionnaire. The Council noted that STACREC will consider additional proposals during the June 1993 Meeting in preparation for the ad hoc Consultation of the CWP in September/October 1993.

With respect to CWP discussions on misreported official catch statistics, the Council endorsed the STACREC recommendation that the NAFO Statistical Bulletins clearly state the likely differences in the official statistics and cite where the data are found.

## **PUBLICATIONS**

The Council noted the substantial progress made in the review of scientific papers and publications since the June 1992 meeting. The STACPUB recommendation to find means of limiting the number of pages printed at the Secretariat each year was considered. The NAFO Secretariat was asked for this purpose, to use the Circular Letter Series to request pre-announcement of meeting participants and the number of papers being submitted, well in advance of the meeting. This would assist in determining the appropriate number of papers to be printed and prevent excess printing. It was agreed that preliminary assessments prepared by Designated Experts would be first issued for the meeting as working papers and later revised as necessary and issued as SCR Documents.

## **FUTURE MEETING ARRANGEMENTS**

### **Scientific Council Meeting in June 1993**

The Council confirmed the dates of 2-16 June 1993 for the meeting of the Council and its Standing Committees at NAFO Headquarters in Dartmouth, Nova Scotia, Canada.

### **Annual Meeting and Special Session in September 1993**

The Council decided to hold the Special Session during 13-15 September 1993, immediately after the Annual Meeting which the Council scheduled for 4 days; 7-10 September 1993. The Special Session was titled "Gear Selectivity/Technical Interactions in Mixed Species Fisheries".

### **Scientific Council Meeting in June 1994**

The Council agreed on the tentative dates of 8-22 June 1994 for the meeting of the Council and its Standing Committees.

### **Annual Meeting and Special Session in September 1994**

The Council decided to hold the Special Session during 14-16 September 1994, immediately before the Annual Meeting which is provisionally scheduled for 5 days; 19-23 September 1994. The Special Session was titled "Impact of Anomalous Oceanographic Conditions at the Beginning of the 1990s in the Northwest Atlantic on the Distribution and Behaviour of Marine Life".

### Special Symposium in 1995

The Council noted that the general topic titled "The Role of Marine Mammals in the Ecosystem" was selected for a Symposium in 1995.

### Accommodations for the June Meetings

The Council noted with regret that there was a funding difficulty to rent space for the June Meetings outside NAFO Headquarters. With the entry of three new Contracting Parties in September 1992, the number of attendees is expected to increase. The Council was concerned that this would cause more cramped conditions in the main meeting room at NAFO Headquarters. It was also particularly noted that the lack of small meeting rooms and space for setting up laptop computers brought to the meeting by scientists will continue to hamper the work considerably.

## Annex 1. List of Participants

### Scientific Council Meeting, 14th Annual Meeting

Dartmouth, Nova Scotia, Canada

14-18 September 1992

#### CANADA

Atkinson, D. B.	Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland
Bishop, C. A.	" " " " " "
Brodie, W. B.	" " " " " "
Waldron, D. E.	Marine Fish Division, BIO, P. O. Box 1006, Dartmouth, Nova Scotia
Beckett, J. S.	Biological Sciences Directorate, 200 Kent St., Ottawa, Ontario K1A 0E6

#### EUROPEAN ECONOMIC COMMUNITY

Astudillo, A.	Commission of the European Communities, DGXIV-Rue Joseph II, 99, 1049 Brussels, Belgium
Lassen, H.	Danmarks Fiskeri-og Havundersøgelser, Charlottenlund Slot, DK-2920 Charlottenlund, Denmark
Cornus, H. P.	Bundesforschungsanstalt für Fischerei, Institut für Seefischerei, Palmaille 9, D-2000 Hamburg 50, Germany
Avila de Melo, A.	Instituto Nacional de Investigacao das Pescas, Av. Brasilia, 1400 Lisbon, Portugal
Godinho, M. L.	" " " " " "
de Cárdenas, E.	Instituto Espanol de Oceanografia, Aptdo 240, Santander, Spain
Perez-Gandaras, G.	Instituto de Investigaciones Marinas, Muelle de Bouzas, Vigo, Spain
Vazquez, A.	" " " " " "
Battaglia, A.	IFREMER, B. P. 4240, F-97500 St. Pierre, St. Pierre et Miquelon, France
Moguedet, Ph.	" " " " " "
Durand, J. L.	IFREMER, B. P. 1049, F-44037 Nantes-Cedex 01, France

#### JAPAN

Yokawa, K.	Distant-Water Groundfish, National Research Institute of Far Sea Fisheries, 5-7-1 Orido, Shimizu 424
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#### RUSSIAN FEDERATION

Rikhter, V. A.	AtlantNIRO, 5 Dmitry Donskoy Street, Kaliningrad, 236040
Solodovnik, V. N.	First Secretary (Fisheries Affairs) Embassy of the Russian Federation, 1609 Decatur St. N.W., Washington, D.C. 20003, USA
Troyanovsky, F. M.	PINRO, 6 Knipovich Street, Murmansk, 183763

#### OBSERVERS

Ahn, H. S.	Korean Embassy, 151 Slater St., 5th Floor, Ottawa, Ontario K1P 5H3
Noh, S. M.	Deep Sea Production Div., National Fisheries Administration
Park, K. S.	Korean Embassy, 2450 Mass Ave. N.W., Washington, D.C., USA

## Annex 2. Agenda

### Scientific Council Meeting, 14th Annual Meeting

Dartmouth, Nova Scotia, Canada

14-18 September 1992

- I. Opening (Acting Chairman: H. Lassen)
  1. Appointment of rapporteur
  2. Adoption of agenda
  3. Plan of work
  
- II. Fishery Science (STACFIS Chairman: D. B. Atkinson)
  1. Stock assessments
    - a) Greenland halibut in terms of the total area of stock distribution (joint request from Canada and Denmark/Greenland)
  2. Report of Special Session on "State-of-the-Art in Fish Stock Assessment: a Tutorial/Workshop on Calibration Methods and Their Practical Use" (9-11 September 1992 with R. K. Mohn (Canada) and R. M. Cook (EEC-UK) as Conveners)
  3. Review of current arrangements for conducting stock assessments
    - a) Updating list of Designated Experts
    - b) Data availability to Designated Experts
  4. Future Special Sessions
    - a) Special Session in September, 1993 on "Gear Selectivity/Technical Interactions in Mixed Species Fisheries"
    - b) Proposed theme for Special Session in September 1994
    - c) Co-sponsorship with other organizations
  5. Other matters
  
- III. Research Coordination (STACREC Chairman: A. Avila de Melo)
  1. Acquisition of STATLANT 21A and 21B reports
  2. Publication of statistical information

3. Review of requirements for submission of sampling information
  4. Review of Report of CWP 15th Session, July 1992
  5. Other matters
- IV. Publications (STACPUB Chairman: H. Lassen)
1. Review of Scientific Publications
  2. Promotion and distribution of scientific publications
    - a) Invitational papers
    - b) Promotion of the Journal
  3. Editorial matters
  4. Review of papers for possible publication
    - a) Review of proposals from past meetings
    - b) Contributions to present meeting
    - c) Other contributions
  5. Other matters
- V. Review of Future Meeting Arrangements
1. June 1993 Meeting of the Scientific Council
  2. Special Session and Annual Meeting, September 1993
  3. June 1994 Meeting of the Scientific Council
- VI. Other Business
- VII. Adoption of Reports
1. Committee Reports of present meeting (STACFIS, STACREC, STACPUB)
  2. Report of Scientific Council, September 1992
- VIII. Adjournment



## **PART IV**

(pages 167-181)

### **Administrative and Financial Report for the Year Ended 31 December 1992**





## Administrative Report for the Year Ended 31 December 1992

### Meetings and NAFO Secretariat Activities

1. The Standing Committee on International Control (STACTIC) met in Copenhagen, Denmark from 18 to 20 February 1992. The Secretariat was represented by L. I. Chepel and B. J. Cruikshank.
2. The Scientific Council met in St. John's, Newfoundland from 3 to 6 March 1992. The Secretariat was represented by T. Amaratunga and D. Auby.
3. The Standing Committee on Fishing Activities of non-Contracting Parties in the Regulatory Area (STACFAC) met at NAFO Headquarters from 7 to 9 April 1992.
4. The STACTIC Working Group (on NAFO Hail System) met at NAFO Headquarters from 28 to 29 April 1992.
5. A Special Meeting of the Fisheries Commission was held at Holiday Inn, Dartmouth, Nova Scotia, Canada from 11 to 14 May 1992.
6. The International Fisheries Commissions Pension Society held its Annual Meeting in Seattle, Washington during 11-12 May 1992. The Secretariat was represented by F. Keating, Accounting Officer.
7. A Special Meeting of the Scientific Council was held in NAFO Headquarters during 1-2 June 1992.
8. The Scientific Council met at NAFO Headquarters from 3 to 17 June 1992.
9. The Executive Secretary, L. I. Chepel, travelled to Ottawa to discuss visa arrangements for his vacations and upcoming meeting of STACTIC in Copenhagen with British, Danish and Russian Embassies during 22-23 June 1992.
10. The Fifteenth Session of the Coordinating Working Party on Atlantic Fishery Statistics (CWP) met at NAFO Headquarters from 8 to 14 July 1992.
11. A Special Meeting of the Standing Committee on International Control (STACTIC) was held in Copenhagen, Denmark from 21 to 24 July 1992. The Secretariat was represented by L. I. Chepel and B. J. Cruikshank.
12. A Special Session of the Scientific Council on "State-of-the-Art in Fish Assessment" was held at NAFO Headquarters in Dartmouth, Nova Scotia, Canada, during 9-11 September 1992.
13. The Annual Meeting of the Organization including all constituent bodies - the General Council, the Fisheries Commission, the Scientific Council - was held at the Holiday Inn in Dartmouth, Nova Scotia, Canada during 14-18 September 1992.

The NAFO Secretariat made all necessary arrangements for the above-mentioned meeting and prepared all documents in accordance with the provisions of the NAFO Convention and the Rules of Procedure.

### Publications

The publications listed below are prepared and printed in the NAFO Secretariat. It is estimated that 1.0 million pages of printed material will be distributed in publications and an additional 1.2 million pages of printed material distributed in documents/circular letters before the end of 1992.

1. NAFO *Annual Report* for the year 1991 (161 pages) was distributed in April 1992.
2. NAFO *Meeting Proceedings* (consolidated text) for the year 1991 (241 pages) was distributed in July 1992.
3. NAFO *Handbook* (106 pages) was distributed in January 1992.
4. NAFO *Conservation and Enforcement Measures* (61 pages) was distributed in December 1992.
5. NAFO *Scientific Council Reports* for the year 1991 (164 pages) was distributed in January 1992.
6. NAFO *Journal of Northwest Atlantic Fishery Science* - Volume 12 containing 7 papers (84 pages) was distributed in March 1992.
7. NAFO *Journal of Northwest Atlantic Fishery Science* - Volume 13 containing 7 papers (114 pages) was distributed in December 1992.
8. NAFO *List of Fishing Vessels for 1989* (44 pages) was distributed in February 1992.
9. NAFO *Provisional Index and List of Titles of Research and Summary Documents for 1991* (22 pages) was distributed in April 1992.
10. NAFO *Executive Summary* (69 pages) was distributed in September 1992.
11. *Summary of Status of Proposals and Resolutions of NAFO* (as of July 1992) (36 pages) was distributed in July.
12. The General Council Reports: GC Doc. 92/1 (STACFAC); GC Doc. 92/2 (Administrative/Financial); GC Doc. 92/3 (Annual Meeting) were distributed throughout the year.
13. The Fisheries Commission Reports: GC Doc. 92/1 (STACTIC); FC Doc. 92/2 (STACTIC W.G.); FC Doc. 92/3 (Fisheries Commission); FC Doc. 92/4 (STACTIC); FC Doc. 92/19 (Annual Meeting) were distributed throughout the year.
14. The Scientific Council Reports: SCS Doc. 92/1 (Scientific Council); SCS Doc. 92/20 (Special Meeting); SCS Doc. 92/23 (June Meeting); SCS Doc. 92/24 (Annual Meeting) were distributed throughout the year.

## Fishery Statistics

The statistical database at the Secretariat which is in an IBM compatible PC system, was updated back to 1960. Many Contracting Party requests for data were conveniently fulfilled and supplied in the form of diskettes.

### 1. **STATLANT 21B Reports for 1989**

Deadline for submission of STATLANT 21B reports for 1989 was 30 June 1990. As of June 1992, data were still outstanding from France (M) and Norway. The delay in the acquisition of final data have again had a significant impact on the timely publication of *NAFO Statistical Bulletin Vol. 39*.

### 2. **STATLANT 21B Reports for 1990**

Deadline for submission of STATLANT 21B reports for 1990 was June 1991. As of December 1992, data from 4 countries were still outstanding and the publication of *NAFO Statistical Bulletin Vol. 40* has been seriously delayed.

### 3. **STATLANT 21A Reports for 1991**

The deadline for the submission of provisional statistics in the STATLANT 21A reports for 1991 was 15 April 1992. This is in order to provide sufficient time for the Secretariat to tabulate the data for the June Meeting of the Scientific Council. Timely submission of these provisional data are necessary for stock assessments carried out by the Scientific Council at the June Meeting. As of December 1992, data were outstanding from 2 countries, and necessary data were not submitted for the June 1992 Meeting.

### **Monthly Reporting of Provisional Catch Statistics**

The Secretariat continued to prepare and distribute the monthly reporting of the provisional catches for selected stocks, by the NAFO Circular Letter series. There were, however, occasions when some Contracting Parties tended to neglect submissions. The most recent report was issued in NAFO Circular Letter 92/68.

### 5. **Historical catches for 1980-90**

The Secretariat continued the practice of preparing a Summary Document (SCS Doc. 92/5, Serial No. N2047). The document contains an 11-year time series from 1980 to 1990 with mainly updates for 1979-88 and provisional data for 1989 and 1990. More than 70 stocks are currently included in this list (others may be added upon request).

### 6. **Biological Sampling Data**

The Secretariat continued the practice of preparing a Summary Document on Biological Sampling Data: SCS Doc. 92/6, Serial No. N2048 containing data for 1990. The Inventory of Sampling Data for 1985-89 is due to be published early 1993. All outstanding data were submitted to the Secretariat in April 1992.

### 7. **List of Fishing Vessels, 1989**

Data were finally received from all countries or components and the List of Fishing Vessels was published in January 1992.



## Financial Report for the Year Ended 31 December 1992

An audit of the NAFO accounts for the fiscal year 1992 was completed by the firm of Deloitte and Touche, Chartered Accountants.

The auditor's report is as follows:

### To the Chairman and Members of the General Council of Northwest Atlantic Fisheries Organization

We have audited the balance sheet of the Northwest Atlantic Fisheries Organization as at 31 December 1992 and the statements of revenue and expenditures, accumulated surplus and changes in financial position for the year then ended. These financial statements are the responsibility of the Organization's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. These standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

As outlined in Note 4 to the financial statements, the Organization has not recorded a liability for enhanced employee termination benefits, as approved as part of the Staff Rules by General Council at its annual meeting in September, 1991. At 31 December 1992, these enhanced benefits amounted to approximately \$120 000. Failure to record this amount as a liability in 1992 is not in accordance with the Organization's stated accounting principles. Had the liability been recorded, excess of revenue over expenditures for the year and accumulated surplus at the end of the year would have been reduced by \$120 000.

In our opinion, except for the effects of the Organization's failure to record the liability referred to in the preceding paragraph, these financial statements present fairly, in all material respects, the financial position of the Organization as at 31 December 1992 and the results of its operations and the changes in its financial position for the year then ended in accordance with the accounting principles disclosed in the notes to the financial statements.

We further report as required by Rule 7.1 of the Financial Regulations of the Organization that, in our opinion, the financial statements are in accordance with the books and records of the Organization; the financial transactions reflected in the statements have, in all significant respects, been in accordance with the Financial Regulations and the budgetary provisions of the Northwest Atlantic Fisheries Organization; and the monies on deposit and on hand have been verified by certificate received directly from the Organization's depositories or by actual count.

**Statement of Revenue and Expenditures**  
(Year Ended 31 December 1992)

Expressed in Canadian Dollars

	Budget 1992	Actual 1992	Actual 1991
<b>Revenue</b>			
Contributions assessed contracting parties (Note 5) .....	\$ 738,495	\$ 738,495	\$ 735,554
Allocation from surplus for operations .....	164,505	164,505	129,276
Personal income taxes			
Federal .....	-	95,857	87,494
Provincial .....	-	42,942	37,228
Interest .....	-	17,244	30,939
Sales of publications .....	-	2,943	5,512
	<u>903,000</u>	<u>1,061,986</u>	<u>1,026,003</u>
<b>Expenditures</b>			
Salaries .....	562,000	570,017	538,670
Superannuation (Note 6) .....	71,000	70,536	61,908
Additional help .....	1,000	-	-
Group medical and insurance plan .....	30,000	28,624	26,170
Termination benefits (Note 4) .....	15,000	16,319	12,287
Vacation pay increase .....	6,000	8,814	3,454
Travel .....	17,000	12,370	8,621
Transportation .....	1,000	790	770
Communications .....	51,000	47,258	44,882
Publications .....	22,000	19,069	19,003
Contractual services (Note 7) .....	47,000	40,871	41,190
Materials and supplies .....	30,000	30,231	28,740
Equipment .....	5,000	1,487	3,899
Meetings .....	30,000	57,484	32,717
Computer services .....	15,000	11,824	13,427
Removal and travel .....	-	-	5,700
	<u>903,000</u>	<u>915,694</u>	<u>841,438</u>
Excess of revenue over expenditures before provision for uncollectible accounts .....	-	146,292	184,565
Provision for uncollectible accounts and write-off of contributions .....	18,702	18,702	20,061
<b>Excess of revenue over expenditures</b> .....	<u>\$ (18,702)</u>	<u>\$ 127,590</u>	<u>\$ 164,504</u>

**Statement of Accumulated Surplus**  
(Year Ended 31 December 1992)

Expressed in Canadian Dollars

	1992	1991
<b>Balance, beginning of year</b>	<u>\$ 239,505</u>	<u>\$ 204,277</u>
Allocations		
To operations .....	<u>164,505</u>	<u>129,276</u>
To write-off contributions .....	<u>—</u>	<u>—</u>
	75,000	75,001
Excess of revenue over expenditures .....	<u>127,590</u>	<u>164,504</u>
<b>Balance, end of year</b> .....	<u>\$ 202,590</u>	<u>\$ 239,505</u>

## Balance Sheet as at 31 December 1992

Expressed in Canadian Dollars

	1992	1991
<b>ASSETS</b>		
<b>Current</b>		
Cash and short-term deposits .....	\$ 294,392	\$ 271,977
Contributions receivable (Note 3) .....	96,473	84,256
Accounts receivable .....	5,176	4,163
Accrued interest receivable .....	1,866	1,663
Ex gratia grant receivable .....	-	37,228
Prepaid expenses .....	<u>8,515</u>	<u>8,920</u>
	<u>\$ 406,422</u>	<u>\$ 408,207</u>
<b>LIABILITIES</b>		
<b>Current</b>		
Accounts payable and accrued liabilities .....	4,541	\$ 4,613
Accrued vacation .....	22,923	14,110
Overpayment of contributions by Contracting Parties .....	<u>10,070</u>	<u>-</u>
	37,534	18,723
Provision for employee termination benefits (Note 4) .....	<u>166,298</u>	<u>149,979</u>
	<u>203,832</u>	<u>168,702</u>
<b>EQUITY</b>		
Accumulated surplus .....	<u>202,590</u>	<u>239,505</u>
	<u>\$ 406,422</u>	<u>\$ 408,207</u>



**Statement of Changes in Financial Position**  
**(Year Ended 31 December 1992)**

Expressed in Canadian Dollars

	1992	1991
<b>Net inflow (outflow) of cash related to the following activities:</b>		
<b>Operating</b>		
Excess of revenue over expenditures .....	\$ 127,590	\$ 164,504
Item not affecting cash		
Allocation from surplus .....	<u>(164,505)</u>	<u>(129,276)</u>
	(36,915)	35,228
Changes in non-cash operating working capital items (Note 9) .....	<u>43,011</u>	<u>(46,202)</u>
	6,096	(10,974)
<b>Financing</b>		
Increase in provision for employee termination benefits .....	<u>16,319</u>	<u>12,287</u>
<b>Net cash inflow</b> .....	22,415	1,313
<b>Cash position, beginning of year</b> .....	<u>271,977</u>	<u>270,664</u>
<b>Cash position, end of year</b> .....	<u>\$ 294,392</u>	<u>\$ 271,977</u>

## Notes to the Financial Statements

(Year Ended 31 December 1992)

### 1. Authority and Objective

The Northwest Atlantic Fisheries Organization was established by the Convention on Future Cooperation in the Northwest Atlantic Fisheries which came into force on 1 January 1979.

The objective of the Organization is to contribute through cooperation and consultation to the conservation, rational management and efficient utilization of the fishery resources in the Convention. For that purpose, it compiles statistics, maintains research programs, establishes management goals, and promotes and co-ordinates international surveillance.

### 2. Accounting Policies

These financial statements have been prepared in accordance with generally accepted accounting principles, except for the policies concerning uncollectible accounts and provincial grants, and reflect the following policies:

**a) Contributions assessed contracting parties**

Contributions are assessed annually and are recorded as revenue in the year for which billings apply. As approved by the General Council at the general meeting held in September, 1992, an allowance for uncollectible accounts is recorded for contributions that are in arrears.

**b) Accumulated Surplus**

The Chairman of the General Council, after consultations with representatives of all members of the General Council, may authorize expenditures from accumulated surplus for unforeseen and extraordinary expenses necessary to the good conduct of the business of the Organization. Such funds may not be in excess of 20% of the annual budget for the current financial year.

**c) Publications**

Costs of publications are charged to expense as incurred.

**d) Office furniture and equipment**

Costs of office furniture and equipment are charged to expense when purchased. Leases for equipment, which transfer substantially all of the benefits and risks of ownership to the Organization, are not treated as asset purchases (capital leases). Lease payments are charged in the year paid to the contractual services or computer services expenditure categories.

**e) Personal Income Taxes**

*Federal*

According to an Order in Council (P.C. 1980-132) issued by the Government of Canada, the Organization comes under the jurisdiction of the Convention on the Privileges and Immunities of the United Nations. Article V, Section 18(b) of this

Convention exempts officials of the United Nations organizations from taxation on the salaries and emoluments paid to them. However, the Order in Council (Section 3.(3)) does not exempt a Canadian citizen, residing or ordinarily resident in Canada, from liability for any taxes or duties imposed by any law in Canada.

Accordingly, as is customary for international organizations, the Organization credits revenue with an amount equal to the Canadian federal income taxes that would be otherwise assessed on its employees.

#### *Provincial*

The Organization deducts provincial income taxes from the salaries of Canadian employees and remits amounts deducted on a regular basis to the Province of Nova Scotia. At the end of each year, the Organization applies to the provincial government for an *ex gratia* grant equal to the amount of provincial personal income taxes paid. Such grants are accrued when ultimate receipt is assured.

#### f) Pension Plan

The Organization expenses the current contribution plus the payments for the unfunded portion of the plan.

### 3. Contributions Receivable

This account reflects assessments due (Canadian Dollars) from contracting parties as follows:

	1992	1991
Estonia .....	\$ 5,275	\$ -
Denmark (in respect of the Faroe Islands and Greenland) .....	-	846
Cuba .....	25,614	24,827
Romania .....	56,639	37,937
Japan .....	-	1,672
Russian Federation .....	60,309	56,911
Lithuania .....	<u>5,275</u>	<u>-</u>
	153,112	122,193
Less: Allowance for uncollectible assessments .....	<u>56,639</u>	<u>37,937</u>
	<u>\$ 96,473</u>	<u>\$ 84,256</u>

### 4. Provision for Employee Termination Benefits

At its annual meeting in September 1991, the General Council approved in the Staff Rules an enhanced employee termination benefit package to be effective 1 January 1992. At 31 December 1992, the additional liability resulting from this enhancement amounted to approximately \$ 120,000, which amount has not been either recorded in the accounts of the Organization, or determined how it is to be funded. Neither has an amount been included in the 1992 figures for the enhanced benefit earned during the year.

## 5. Contributions Assessed Contracting Parties

Expressed in Canadian Dollars

	1992	1991
Bulgaria .....	\$ 18,702	\$ 20,061
Canada .....	380,890	406,829
Cuba .....	25,614	24,827
Denmark (in respect of the Faroe Islands and Greenland) .....	74,828	60,840
Estonia .....	5,275	-
European Economic Community .....	62,259	59,559
Iceland .....	18,702	20,061
Japan .....	21,272	22,532
Latvia .....	5,275	-
Lithuania .....	5,275	-
Norway .....	20,076	20,502
Poland .....	21,316	23,371
Romania .....	18,702	20,061
Russian Federation .....	<u>60,309</u>	<u>56,911</u>
	<u>\$ 738,495</u>	<u>\$ 735,554</u>

## 6. Pension Plan

The Organization has a defined benefit pension plan which covers all employees. The last actuarial data available is as of 1 October 1989. At that time, the accrued pension obligation was \$717,894 while the assets were valued at \$523,328. The estimated amount of unfunded pension liability at 31 December 1992 of \$130,570 being funded at the rate of \$28,783 per year.

## 7. Capital Lease Obligations

Lease payments due over the next five years are as follows:

<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>
\$ 17,395	\$ 17,395	\$ 17,395	\$ 10,480	\$ -

## 8. Services Provided Without Charge

Accommodation for the Organization's secretariat in Dartmouth, Nova Scotia is provided without charge by the Canadian Department of Fisheries and Oceans. Accordingly, the related costs, which include rent, grants-in-lieu of property taxes, heat, electricity and cleaning services, are not reflected in these financial statements.

## 8. Elements of the Statement of Changes in Financial Position

Expressed in Canadian Dollars

	1992	1991
Changes in non-cash operating working capital items		
Contributions receivable .....	\$ (12,217)	\$ (41,104)
Accounts receivable .....	(1,013)	(3,083)
Accrued interest receivable .....	(203)	1,227
<i>Ex gratia</i> grant receivable .....	37,228	(8,347)
Prepaid expenses .....	405	2,007
Accounts payable and accrued liabilities .....	(72)	(356)
Accrued vacation .....	8,813	3,454
Overpayment of contributions by Contracting Parties ...	<u>10,070</u>	<u>—</u>
	<u>\$ (43,011)</u>	<u>\$ (46,202)</u>
Cash represented by:		
Cash .....	\$ 274,292	\$ 251,877
Term deposits .....	20,000	20,000
Petty cash .....	<u>100</u>	<u>100</u>
	<u>\$ 294,392</u>	<u>\$ 271,977</u>