

Northwest Atlantic Fisheries Organization (NAFO)



Meeting Proceedings of the General Council and Fisheries Commission for 2002

Printed and Distributed by:
Northwest Atlantic Fisheries Organization
P. O. Box 638, Dartmouth, Nova Scotia
Canada B2Y 3Y9

Foreword

This is an annual publication of the Proceedings which contains the reports of all meetings of the General Council and Fisheries Commission including their subsidiary bodies through 2002. The objective of this publication is to provide the Contracting Parties with a detailed consolidated text of all discussions initiated during the year. The proceedings of the Scientific Council are published separately in an annual issue of *NAFO Scientific Council Reports*.

SECTION I contains the Report of the Special Meeting of the General Council (including STACFAD), 29 January-01 February 2002, Helsingør, Denmark.

SECTION II contains the Report of the Special Meeting of the Fisheries Commission (including STACTIC), 29 January-01 February 2002, Helsingør, Denmark.

SECTION III contains the Report of the Standing Committee on International Control (STACTIC), 6-9 May 2002, Copenhagen, Denmark.

SECTION IV contains the Report of the Working Group of Technical Experts on the Precautionary Approach (PA), 20-21 June 2002, Dartmouth, N.S., Canada.

SECTION V contains the Report of the ad hoc Working Group on Management of Oceanic Redfish, 24-25 June 2002, Dartmouth, N.S., Canada.

SECTION VI contains the Report of the STACTIC Working Group to Overhaul the NAFO Conservation and Enforcement Measures, 9-11 July 2002, Ottawa, Canada.

SECTION VII contains the Report of the General Council including subsidiary bodies reports (STACFAD and STACFAC), 24th Annual Meeting, 16-20 September 2002, Santiago de Compostela, Spain.

SECTION VIII contains the Report of the Fisheries Commission including subsidiary body (STACTIC), 24th Annual Meeting, 16-20 September 2002, Santiago de Compostela, Spain.

SECTION IX contains the Report of the STACTIC Working Group (pilot project) Meeting, 18-20 November 2002, NEAFC Headquarters, London, United Kingdom

Contents

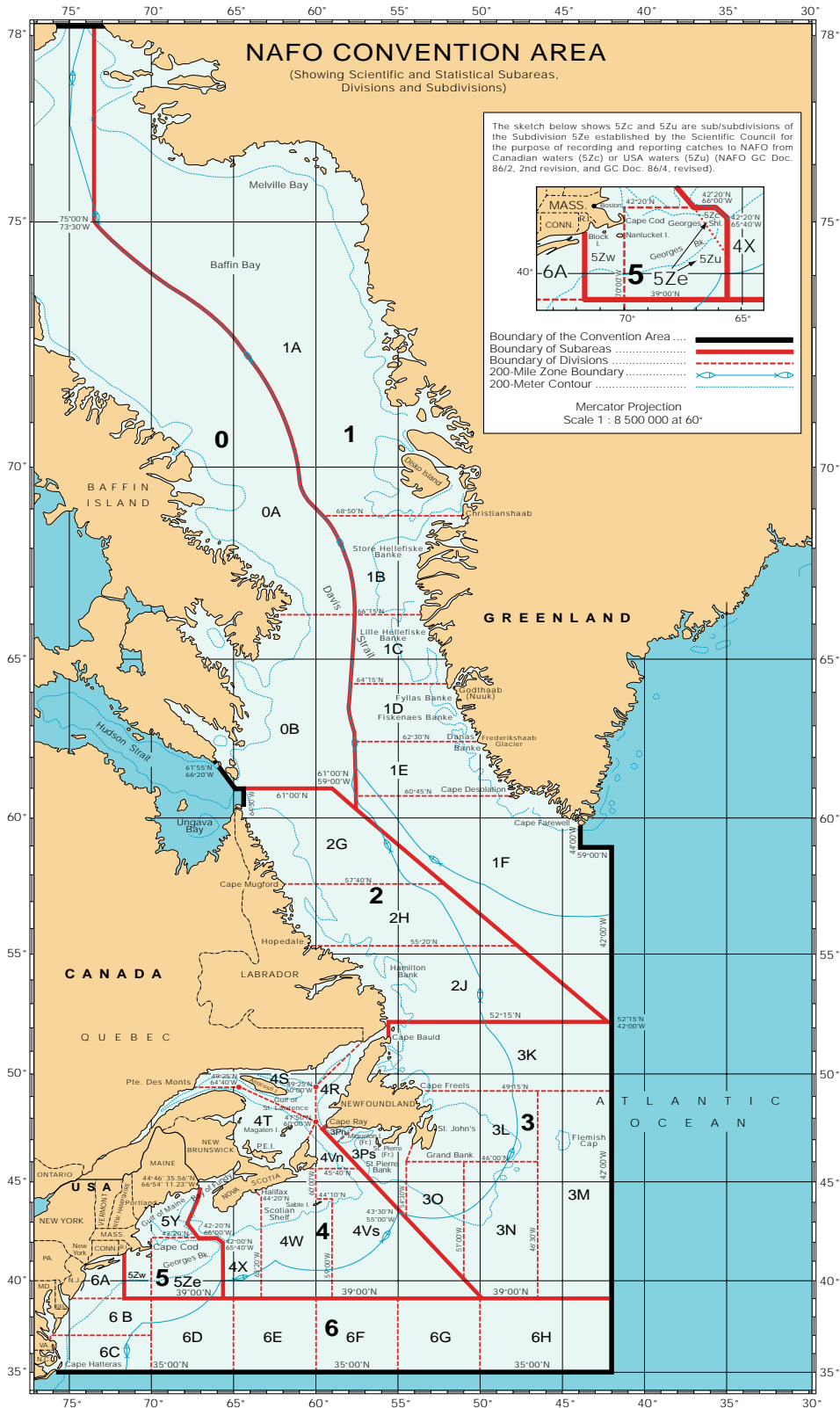
| | |
|---|----|
| Foreword | 3 |
| Map | 10 |
| Structure of the Northwest Atlantic Fisheries Organization in 2002..... | 11 |
| SECTION I. Report of the Special Meeting of the General Council and its Subsidiary Body (STACFAD)..... | 13 |
| Part I. Report of the Special Meeting of the General Council | 15 |
| Annex 1. List of Participants | 18 |
| Annex 2. Opening Statement by the Representative of Canada | 28 |
| Annex 3. Opening Statement by the Representative of the European Union | 30 |
| Annex 4. Opening Statement by the Representative of Estonia | 32 |
| Annex 5. Opening Statement by the Representative of the Russian Federation..... | 33 |
| Annex 6. Opening Statement by the Representative of Ukraine | 34 |
| Annex 7. Opening Statement by FAO to the Special Meetings of the Northwest Atlantic Fisheries Organization | 35 |
| Annex 8. Agenda | 36 |
| Annex 9. Press Release..... | 37 |
| Part II. Report of the Special Meeting of the Standing Committee on Finance and Administration (STACFAD)..... | 39 |
| Annex 1. List of Participants | 47 |
| Annex 2. Agenda | 48 |
| Annex 3. Status of spending for the implementation of the Automated Hail/VMS System..... | 49 |
| Annex 4. Salaries for the 2001 Fiscal Year | 50 |
| Annex 5. Schedule of Outstanding Contributions from Bulgaria and Romania | 51 |
| Annex 6. Budget Estimate for 2002..... | 52 |
| Annex 7. Preliminary Calculation for 2002..... | 53 |
| Annex 8. Preliminary Budget Forecast for 2003 | 54 |
| Annex 9. Procedure, timetable, and selection criteria for the recruitment of a new Executive Secretary..... | 55 |
| Annex 10. Vacancy Announcement | 57 |
| Annex 11. Summary Description of the Position | 59 |
| SECTION II. Report of the Special Meeting of the Fisheries Commission including its Subsidiary Body (STACTIC) | 61 |
| Part I. Report of the Special Meeting of the Fisheries Commission..... | 63 |
| Annex 1. List of Participants | 75 |
| Annex 2. Agenda | 85 |
| Annex 3. Increased Mesh Size..... | 86 |

| | | |
|--------------|---|-----|
| Annex 4. | NAFO Ad hoc Group on NAFO Management of Oceanic Redfish – Terms of Reference..... | 87 |
| Annex 5. | Fisheries Commission's Request for Scientific Advice on Management in 2003 of Certain Stocks in Subareas 3 and 4..... | 88 |
| Annex 6. | Fisheries Commission/Scientific Council Precautionary Approach Meeting..... | 92 |
| Part II. | Report of the Special Meeting of the Standing Committee on International Control (STACTIC)..... | 93 |
| Annex 1. | Agenda | 99 |
| Annex 2. | Status report of NAFO automated Hail/VMS activities up to December 31, 2001 | 100 |
| Annex 3. | Elements of STACTIC W.P. 01/9 that have been agreed upon by STACTIC | 101 |
| Annex 4. | Intersessional Meetings, STACTIC and STACTIC Working Groups, 2002..... | 102 |
| SECTION III. | Report of the Standing Committee on International Control (STACTIC)..... | 103 |
| Annex 1. | List of Participants | 111 |
| Annex 2. | Agenda | 115 |
| Annex 3. | Summary of Responses to STACTIC W.P. 02/10 | 116 |
| Annex 4. | Summary of Responses to STACTIC W.P. 02/11 | 120 |
| Annex 5. | Review of the Observer Scheme and Vessel Monitoring System (VMS)..... | 121 |
| SECTION IV. | Report of the Working Group of Technical Experts on the Precautionary Approach (PA) | 179 |
| Annex 1. | List of Participants | 186 |
| Annex 2. | Agenda | 188 |
| SECTION V. | Report of the ad hoc Working Group on Management of Oceanic Redfish..... | 189 |
| Annex 1. | List of Participants | 194 |
| Annex 2. | Agenda | 198 |
| Annex 3. | Summary of Scientific Advice from ICES..... | 199 |
| Annex 4. | Scientific Council Information to the W.G. on Oceanic Redfish | 207 |
| Annex 5. | NAFO Management Measures re Oceanic Redfish | 211 |
| Annex 6. | Measures Adopted by NEAFC on Pelagic Fishery for Redfish in 2002 | 213 |
| Annex 7. | Proposal re Oceanic Redfish (pelagic <i>Sebastes mentella</i>) in NAFO SA 2 and Divisions 1F and 3K..... | 215 |

| | | |
|--------------|---|-----|
| SECTION VI. | Report of the STACTIC Working Group to Overhaul the NAFO Conservation and Enforcement Measures..... | 217 |
| | Annex 1. List of Participants | 220 |
| | Annex 2. Draft Revision of the Conservation and Enforcement Measures | 222 |
| | Annex 3. Annexes of the Conservation and Enforcement Measures which the Drafting Group was not able to focus on..... | 276 |
| | Annex 4. Issues which the Drafting Group identified as possible substantive changes..... | 277 |
| SECTION VII. | Report of the General Council and its Subsidiary Bodies (STACFAD and STACFAC), 24 th Annual Meeting | 281 |
| Part I. | Report of the General Council | 285 |
| | Annex 1. List of Participants | 293 |
| | Annex 2. Opening Statement by the Representative of Canada | 307 |
| | Annex 3. Opening Statement by the Representative of the European Union | 309 |
| | Annex 4. Opening Statement by the Representative of the Republic of Korea | 311 |
| | Annex 5. Opening Statement by the Representative of Ukraine | 313 |
| | Annex 6. Opening Statement by the Representative of the United States of America | 314 |
| | Annex 7. Agenda | 316 |
| | Annex 8. Press Release..... | 318 |
| | Annex 9. Bulgarian Declaration on Repayment of the Bulgarian outstanding contributions (for the years 1993-2002) | 322 |
| | Annex 10. Letter Regarding Romania's Withdrawal from NAFO..... | 323 |
| | Annex 11. Scientific Council Consideration of Memorandum of Understanding with ICES | 324 |
| | Annex 12. Schedule of NAFO Intersessional Meetings, 2002-2003 | 325 |
| Part II. | Report of the Standing Committee on Finance and Administration (STACFAD) | 326 |
| | Annex 1. List of Participants | 333 |
| | Annex 2. Agenda | 334 |
| | Annex 3. Status of spending for the implementation of the Automated Hail/VMS System..... | 335 |
| | Annex 4. Bulgarian declaration on repayment of the Bulgarian outstanding contributions (for the years 1993-2002) | 336 |
| | Annex 5. Schedule of Outstanding Contributions from Bulgaria and Romania | 337 |
| | Annex 6. Scientific Council recommendation regarding CWP participation | 338 |
| | Annex 7. Budget Estimate for 2003..... | 339 |
| | Annex 8. Preliminary Calculation for 2003..... | 340 |
| | Annex 9. Preliminary Budget Forecast for 2004 | 341 |
| | Annex 10. Amendments to Rule 7.1 of NAFO Staff Rules..... | 342 |

| | |
|--|-----|
| Part III. Report of the Standing Committee on Fishing Activities of Non-Contracting Parties in the Regulatory Area (STACFAC)..... | 343 |
| Annex 1. List of Participants | 348 |
| Annex 2. Agenda | 349 |
| Annex 3. Letter to Russian Federation | 350 |
| Annex 4. Letter to Belize..... | 351 |
| Annex 5. Letter to Cyprus | 352 |
| SECTION VIII. Report of the Fisheries Commission and its Subsidiary Body (STACTIC), 24 th Annual Meeting | 353 |
| Part I. Report of the Fisheries Commission..... | 355 |
| Annex 1. List of Participants | 367 |
| Annex 2. Agenda | 381 |
| Annex 3. Terms of Reference-STACTIC Evaluation of the Program for Observers and Satellite Tracking..... | 383 |
| Annex 4. Confidential Treatment of Electronic Reports | 391 |
| Annex 5. Amendment of the Conservation and Enforcement Measures re Improvements to the Hail/VMS Systems..... | 394 |
| Annex 6. Proposal Relating to the Overhaul of NAFO Conservation and Enforcement Measures | 395 |
| Annex 7. Amendment of Conservation and Enforcement Measures – Part I.A.5(a) and I.A.5(d) | 396 |
| Annex 8. Review of Compliance..... | 397 |
| Annex 9. Amendment to the Rules of Procedure for the Fisheries Commission for New Terms of Reference of the Standing Committee on International Control (STACTIC) and for a Supportive Role by the Executive Secretary | 402 |
| Annex 10. Amendment of Conservation and Enforcement Measures – Part I.K..... | 403 |
| Annex 11. Terms of Reference for the Working Group on the Allocation of Fishing Rights to Contracting Parties of NAFO..... | 404 |
| Annex 12. Proposal to Address the Issues Related to Timing of Scientific Advice and Determination of TAC and/or Effort Control Measures for the Shrimp Stocks in Divisions 3L and 3M | 405 |
| Annex 13. Oceanic Redfish Quota | 406 |
| Annex 14. Canadian Proposal for NAFO to Establish a Precautionary TAC for Division 3O Redfish in 2004 | 407 |
| Annex 15. Quota Table for 2003 | 408 |
| Annex 16. Fisheries Commission's Request for Scientific Advice on Management in 2004 of Certain Stocks in Subareas 2, 3 and 4..... | 410 |
| Part II. Report of the Standing Committee on International Control (STACTIC)..... | 415 |
| Annex 1. Agenda | 421 |

| | | |
|------------|--|-----|
| SECTION IX | Report of the STACTIC Working Group (pilot project) Meeting | 423 |
| | Annex 1. List of Participants | 429 |
| | Annex 2. Agenda | 432 |
| | Annex 3. Paper presented by Canada | 433 |
| | Annex 4. Discussion Points | 445 |
| | Annex 5. Working Paper Concerning a Pilot Project on Observers, Satellite Tracking and Electronic Reporting | 446 |
| | Annex 6. Request for Quotation | 453 |



**Structure of the Northwest Atlantic Fisheries Organization (NAFO) in 2002
(as at September 2002)**

Contracting Parties

Bulgaria, Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, European Union (EU), France (in respect of St. Pierre et Miquelon), Iceland, Japan, Republic of Korea, Latvia, Lithuania, Norway, Poland, Romania, Russia, Ukraine and United States of America (USA).

President

E. Oltuski (Cuba)

Constituent Bodies

| | | |
|----------------------|--|--|
| General Council | Bulgaria, Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, EU, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Korea, Latvia, Lithuania, Norway, Poland, Romania, Russia, Ukraine and USA. | <i>Chairman</i> – E. Oltuski (Cuba) <i>Vice-Chairman</i> – P. Chamut (Canada) |
| Scientific Council | Bulgaria, Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, EU, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Korea, Latvia, Lithuania, Norway, Poland, Romania, Russia, Ukraine and USA. | <i>Chairman</i> – R. Mayo (USA) <i>Vice-Chairperson</i> – J. Morgan (Canada) |
| Fisheries Commission | Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, EU, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Korea, Latvia, Lithuania, Norway, Poland, Poland, Russia, Ukraine and USA. | <i>Chairman</i> – D. Swanson (USA) <i>Vice-Chairman</i> – B. Prischepa (Russia) |

Standing Committees

| | | |
|-----------------|--|--|
| General Council | Standing Committee on Finance and Administration (STACFAD) | <i>Chairman</i> – G. F. Kingston (EU) <i>Vice-Chairman</i> – D. Kramer-Warner (USA) |
|-----------------|--|--|

| | | |
|-----------------------------|---|--|
| General Council (cont'd) | Standing Committee on Fishing Activity of Non-Contracting Parties in the Regulatory Area (STACFAC) | <i>Chairman</i> – D. Silvestre (France in respect of St. Pierre et Miquelon) <i>Vice-Chairperson</i> – N. Bouffard (Canada) |
| Scientific Council | Standing Committee on Fishery Science (STACFIS) Standing Committee on Research and Coordination (STACREC) Standing Committee on Publications (STACPUB) Standing Committee on Fisheries Environment (STACFEN) | <i>Chairman</i> – D. Stansbury (Canada) <i>Chairperson</i> – J. Morgan (Canada) <i>Chairman</i> – M. Stein (EU-Germany) <i>Chairman</i> – E. Colbourne (Canada) |
| Fisheries Commission | Standing Committee on International Control (STACTIC) | <i>Chairman</i> – D. Bevan (Canada) |

Secretariat

| | |
|---|------------------|
| Executive Secretary | L. I. Chepel |
| Assistant Executive Secretary | T. Amaratunga |
| Administrative Assistant | F. D. Keating |
| Senior Secretary | B. J. Cruikshank |
| Accounting Officer | S. M. Goodick |
| Statistical Officer/Conservation Measures Officer | G. M. Moulton |
| Desktop Publishing/Documents Clerk | F. E. Perry |
| Graphic Arts/Printing Technician | R. A. Myers |
| Graphic Arts/Printing Technician | B. T. Crawford |
| Word Processing Secretary | D.C.A. Auby |
| Statistical Clerk | B. L. Marshall |
| Statistical Clerk | C. L. Kerr |

Headquarters Location

2 Morris Drive, Dartmouth, Nova Scotia, Canada

SECTION I

(pages 13 to 63)

Report of the Special Meeting of the General Council and its Subsidiary Body (STACFAD) 29 January – 01 February, 2002 Helsingør, Denmark

| | | |
|----------|---|----|
| Part I. | Report of the Special Meeting of the General Council | 15 |
| | 1. Opening of the Meeting | 15 |
| | 2. Procedures for the Selection of a New Executive Secretary and Finance | 16 |
| | 3. Other Business | 17 |
| | 4. Election of Officers | 17 |
| | 5. NAFO Annual Meetings | 17 |
| | 6. Closing Procedure | 17 |
| | Annex 1. List of Participants | 18 |
| | Annex 2. Opening Statement by the Representative of Canada | 28 |
| | Annex 3. Opening Statement by the Representative of the European Union | 30 |
| | Annex 4. Opening Statement by the Representative of Estonia | 32 |
| | Annex 5. Opening Statement by the Representative of the Russian Federation | 33 |
| | Annex 6. Opening Statement by the Representative of Ukraine | 34 |
| | Annex 7. Opening Statement by FAO to the Special Meetings of the Northwest Atlantic Fisheries Organization | 35 |
| | Annex 8. Agenda | 36 |
| | Annex 9. Press Release | 37 |
| Part II. | Report of the Special Meeting of the Standing Committee on Finance and Administration (STACFAD) | 39 |
| | 1. Opening by the Chairman | 39 |
| | 2. Appointment of Rapporteur | 39 |
| | 3. Adoption of Agenda | 39 |
| | 4. Auditors' Report | 39 |
| | 5. Status of the spending for the implementation of the Automated Hail/VMS System | 39 |
| | 6. Administrative Report and Financial Statements for 2001 | 40 |
| | 7. Review of Accumulated Surplus Account | 41 |
| | 8. Salary Scale for the NAFO Executive Secretary | 41 |
| | 9. Budget Estimate for 2002 | 43 |
| | 10. Budget Forecast for 2003 | 45 |
| | 11. Formulation of selection criteria, procedures and timetable for an Administrative Committee on the recruitment of a new Executive Secretary | 45 |
| | 12. Time and Place of 2003, 2004 Annual Meetings | 45 |
| | 13. Other Issues including any questions referred from the General Council during the current Special Meeting | 45 |

| | |
|---|----|
| 14. Election of Chairman and Vice-Chairman | 46 |
| 15. Adjournment | 46 |
| Annex 1. List of Participants..... | 47 |
| Annex 2. Agenda | 48 |
| Annex 3. Status of spending for the implementation of the Automated Hail/VMS System | 49 |
| Annex 4. Salaries for the 2001 Fiscal Year..... | 50 |
| Annex 5. Schedule of Outstanding Contributions from Bulgaria and Romania..... | 51 |
| Annex 6. Budget Estimate for 2002 | 52 |
| Annex 7. Preliminary Calculation for 2002 | 53 |
| Annex 8. Preliminary Budget Forecast for 2003..... | 54 |
| Annex 9. Procedure, timetable, and selection criteria for the recruitment of a new Executive Secretary | 55 |
| Annex 10. Vacancy Announcement..... | 57 |
| Annex 11. Summary Description of the Position..... | 59 |

PART I

Report of the Special Meeting of the General Council (GC Doc. 02/2)

29 January – 01 February 2002
Helsingør, Denmark

The Meeting was held in accordance with the decision taken by the General Council through mail consultation (GF/01-684 dated Oct. 02/01).

1. Opening of the Meeting

- 1.1 The special meeting of the General Council was convened at the Hotel Marienlyst, Helsingør, Denmark, during January 29-February 01, 2002.
- 1.2 The Representatives of fifteen (15) Contracting Parties were present: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland-DFG), Estonia, European Union, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Latvia, Lithuania, Norway, Poland, Russia, Ukraine and the United States of America (USA) (Annex 1). Three (3) Contracting Parties – Bulgaria, Republic of Korea and Romania were absent.

FAO was represented by an observer, Mr. D. Douman.

- 1.3 The Chairman, Mr. Enrique Oltuski (Cuba), welcomed delegates emphasizing on the following in particular: "... progress has been made by NAFO in the establishment of a framework providing sustainable fishery in Northwest Atlantic. Many reasons exist in order to maintain NAFO achievements. The progress in establishing sound conservation and enforcement measures, controlling overfishing and avoiding unsustainable fishing show that the chosen way is a correct one. The implementation of these measures has laid the ground for the recovery and rebuilding of stocks. I am, as NAFO President, sure that this objective is shared by all NAFO Contracting Parties. One more important highlight regarding the NAFO Science and implementation without delay of the measures recommended to us. We should advance the NAFO reputation as an organization that meets the challenge of world overfishing and deterioration of Ocean resources. We should continue to take decisions that would benefit the present, as well, future generations".

The President wished to all successful work and a friendly atmosphere that is characteristic to NAFO meetings.

- 1.4 Several Contracting Parties presented their opening statements to the meeting and to the NAFO Secretariat (Annexes 2-6). The Representative of Iceland noted that Iceland associates itself with the statements made by other Contracting Parties and expressed his gratitude to Denmark for invitation to this beautiful place. He said that there are many difficult tasks to discuss at this meeting and hoped for a constructive and fruitful meeting.
- 1.5 FAO Observer presented his opening statement underlining effective working relations between FAO and NAFO and addressing important issues of international cooperation in the framework of FAO initiatives (Annex 7).
- 1.6 The meeting appointed the Executive Secretary as Rapporteur.

- 1.7 The Provisional Agenda was adopted (Annex 8).
- 1.8 On the item 4 "Publicity", the meeting agreed to the normal procedure that no statements should be made to the media until after the conclusion of the meeting, when the NAFO Secretariat would issue a Press Release (Annex 9).

**2. Procedures for the Selection of a New Executive Secretary
and Finance** (items 5-7 of the Agenda)

- 2.1 The General Council referred this matter to STACFAD. At the closing session of the General Council, February 01, 2002, the Chairman of STACFAD (F. Kingston, EU) presented its report containing recommendations on the procedures (Annexes 10 and 11 of Part II, STACFAD Report).
- 2.2 The Chairman of STACFAD presented the STACFAD report on February 01/2002 and noted the following:
- a) The Auditors Report had been circulated to Heads of Delegations in May 2001, and no comments have been received. The Report again was presented by the Executive Secretary in detail to STACFAD, and it was recommended for adoption by the General Council
 - b) The special allocation of funds (\$200,000 Cdn) for the Automated Hail System was considered as appropriate and on budget (actual expenditure \$196,787.00).
 - c) The basic budgetary items of the NAFO Secretariat were agreed as follows:
 - the budget for 2002 to be adopted in the amount of \$1,369,000 Cdn.;
 - the Accumulated Surplus Account be maintained at a level not less than \$75,000 Cdn.;
 - the contributions from Bulgaria and Romania be deemed uncollectible and those should be applied against the Accumulated Surplus. It was recommended that Contracting Parties should continue their efforts to reach Bulgaria and Romania.
 - d) There was no consensus on a proposal to reclassify the salary of the Executive Secretary at the UN Salary scale D-1 level due to lack of information. It was proposed to defer the issue in application to a new Executive Secretary at the 2002 Annual Meeting.
 - e) It was recommended that the Secretariat should
 - accelerate the transition currently underway from print to electronic communications with a view to reducing the postal and printing,
 - develop, and submit to the Contracting Parties within two months, a comprehensive overview of current printing material according to category and an identification of the optimal mode of transmission to the Contracting Parties and to the public.
 - f) The Administrative Report (item 8a "Other Business") was reviewed by STACFAD and recommended for adoption.
 - g) The dates of next Annual Meetings were recommended as follows:

| | | | | |
|------|---|----------------------|---|-----------------|
| 2002 | - | Scientific Council | - | 11-20 September |
| | - | General Council | - | 16-20 September |
| | - | Fisheries Commission | - | 16-20 September |
| 2003 | - | Scientific Council | - | 10-19 September |
| | - | General Council | - | 15-19 September |
| | - | Fisheries Commission | - | 15-19 September |

| | | | | |
|------|---|----------------------|---|-----------------|
| 2004 | - | Scientific Council | - | 8-17 September |
| | - | General Council | - | 13-17 September |
| | - | Fisheries Commission | - | 13-17 September |

The venue of the 2002 Annual Meeting 2001 will be in Santiago de Compostela, Galicia, Spain.

The location of the 2003-2004 annual meetings will be Halifax, Canada, unless an invitation to host is extended by a Contracting Party and accepted by the Organization.

- h) Mr. F. Kingston (EU) was re-elected Chairman and Ms. Deirdre Warner-Kramer (USA), Vice-Chairperson of STACFAD for next period 2002-2004.

2.3 The STACFAD Report was adopted by the General Council.

3. Other Business (items 8b,c)

3.1 FAO International Plans of Action

The General Council discussed this matter at length during its first session on Tuesday (Jan 29/02). Contracting Parties expressed their positions. The Representative of Norway tabled a working paper (GC W.P. 02/1) entitled "NAFO – implementation of the FAO International Plans of Action to prevent, deter and eliminate illegal, unreported and unregulated fishing". The meeting decided to continue discussions on this matter in STACFAC during the Annual Meeting, September 2002.

In its work and preparation to the Annual Meeting, STACFAC was recommended to use and compile all relevant documents, including the Norwegian paper on IUU fishing, and FAO upcoming publication of technical guidelines. In addition to this, Contracting Parties were encouraged to send the copies of their FAO reports to the NAFO Secretariat, which in turn should circulate those to all Contracting Parties.

3.2 Report of Working Group on Dispute Settlement Procedures (DSP)

The DSP Working Group report was delivered to the General Council opening session on Tuesday by its Chairman, Mr. F. Wieland (EU). There were different opinions on the status of the report and how this matter of DSP should be dealt with in future. It was agreed that the report should be noted as accepted (but not adopted) by the General Council for further consideration (during Annual Meeting in September 2002).

4. Election of Officers (item 9)

- 4.1 At the closing session, February 01, 2002, Mr. E. Oltuski (Cuba) was re-elected as Chairman and NAFO President for a second term of 2002-2004. Mr. P. Chamut (Canada) was re-elected as Vice-Chairman for a second term of 2002-2004.

5. NAFO Annual Meetings (item 10)

- 5.1 Annual Meetings 2002 was reconfirmed by the Spanish-EU delegation to be convened at Santiago de Compostela, Galicia, Spain, September 16-20.
- 5.2 Annual Meetings 2003 and 2004 will be convened in Halifax Area unless invitations are extended from Contracting Parties and accepted by the General Council.

6. Closing Procedure (item 11)

- 6.1 The General Council Special Meeting adjourned at 1300 on February 01, 2002.

Annex 1. List of Participants

CANADA

Head of Delegation

P. S. Chamut, Assistant Deputy Minister, Dept. of Fisheries and Oceans, Fisheries Management, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 9662 – Fax: +613 990 9557

Representative

P. Chamut (see address above)

Advisers

R. Andrews, Director, Government and Industry Relations, Fishery Products International, 70 O'Leary Ave., P. O. Box 550, St. John's, Newfoundland A1C 5L1
Phone: +709 570 0115 – Fax: +709 570 0436 – E-mail: r.andrews@fpil.com

J. Angel, President, Canadian Association of Prawn Producers, P. O. Box 1C1, Head of St. Margarets Bay, N.S. B0J 1R0
Phone: +902 826 7765 - Fax: +902 826 7065 - E-mail: jangel@hfx.eastlink.ca

D. B. Atkinson, Regional Director, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 2027 - Fax: +709 772 6100 - E-mail: atkinsonb@dfo-mpo.gc.ca

J. W. Baird, A/Regional Director, Fisheries Management, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 4543 - Fax: +709 772 2046 - E-mail: bairdj@dfo-mpo.gc.ca

D. Bevan, Director General, Resource Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 6794 – Fax +613 954 1407 – E-mail: bevand@dfo-mpo.gc.ca

N. Bouffard, Director, Atlantic Affairs Div., International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., 13th Floor, Stn. 13159, Ottawa, Ontario K1A 0E6
Phone: +613 993 1860 - Fax: +613 993 5995 - E-mail: bouffardn@dfo-mpo.gc.ca

W. R. Bowering, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 - Fax: +709 772 6100 - E-mail: boweringr@dfo-mpo.gc.ca

B. Brodie, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 2027 - Fax: +709 772 6100 - E-mail: brodieb@dfo-mpo.gc.ca

B. Chapman, Executive Director, Groundfish Enterprise Allocation Council, 1388 River Road, Manotick, Ontario K4M 1B4
Phone: +613 692 8249 - Fax: +613 692 8250 - E-mail: bchapman@sympatico.ca

T. Dooley, Director, Resource Policy, Dept. of Fisheries and Aquaculture, P. O. Box 8700, St. John's, Newfoundland A1B 4J6
Phone: +709 729 0335 – Fax: +709 729 6082 - E-mail: tdooley@matl.gov.nf.ca

W. Evans, Supervisor, Offshore Surveillance, Conservation and Protection, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 4412 - Fax: +709 772 5983 - E-mail: evansw@dfo-mpo.gc.ca

D. Forsythe, Counsellor (Fisheries and Environment), Mission of Canada to the European Communities, Avenue de Tervuren, 2, Brussels 1040, Belgium
Phone: +32 2 741 0688 - Fax: +32 2 741 0629 - E-mail: douglas.forsythe@dfait-maeci.gc.ca

D. Gillett, Counsellor, Canadian Embassy, Kr Bernikowsgade 1, DK-1105, Copenhagen K, Denmark
Phone: +45 33 48 32 50 – Fax: +45 33 48 32 21 – E-mail: david.gillett@dfait-maeci.gc.ca

N. Greig, Makivik Corporation, P. O. Box 179, Kuujjuaq, Quebec J0M 1C0
Phone: +819 964 2925 - Fax: +819 964 2613 - E-mail: n.greig@makivik.org

S. Horsey, Finance and Administration Advisor, International Affairs, Dept. of Fisheries and Oceans, 200 Kent Street, Stn. 13159, Ottawa, Ontario K1A 0E6
 Phone: +613 993 1898 - Fax: +613 993 5995 - E-mail: horseys@dfo-mpo.gc.ca

B. Lester, Resource Management Officer-Groundfish, Resource Management – Atlantic, Fisheries Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
 Phone: +613 990 0090 – Fax +613 990 7051 – E-mail: lesterb@dfo-mpo.gc.ca

A. MacLean, Director, Conservation and Protection Br., Maritimes Region, Dept. of Fisheries and Oceans, 176 Portland St., 5th Floor, Dartmouth, Nova Scotia B2Y 4T3
 Phone: +902 426 3625 – Fax +902 426 8003 – E-mail: MacLeanA@mar.dfo-mpo.gc.ca

E. McCurdy, President, Fishermen, Food and Allied Workers Union/CAW, P. O. Box 10, St. John's, Newfoundland A1C 5H5
 Phone: +709 576 7276 - Fax: +709 576 1962

P. McGuinness, Vice-President, Fisheries Council of Canada, 38 Antares Drive, Suite 110, Nepean, Ontario K2E 7V2
 Phone: +613 727 7450 - Fax: +613 727 7453 - E-mail: pmcguinness@fisheriescouncil.org

B. J. McNamara, President, Newfound Resources Ltd., 90 O'Leary Avenue, St. John's, Nfld. A1B 4G1
 Phone: +709 579 7676 - Fax: +709 579 7668 - E-mail: nrl@nfld.com

A. O'Rielly, President, Fisheries Association of Newfoundland and Labrador Ltd., P. O. Box 8900, St. John's, Newfoundland A1B 3R9
 Phone: +709 726 7223 – Fax: +709 754 3339 – E-mail: aorielly@nfld.com

G. Peacock, Director, Resource Management, Maritimes Region, Dept. of Fisheries and Oceans, 176 Portland St., Dartmouth, Nova Scotia B2Y 4T3
 Phone: +902 426 3625 – Fax :902 426 9683 – E-mail: peacockg@mar.dfo-mpo.gc.ca

A. Saunders, Legal Officer, Oceans, Environment and Economic Law Division (JLO), Dept. of Foreign Affairs and International Trade, 125 Sussex Drive, Ottawa, Ontario K1A 0G2
 Phone: +613 996 2643 - Fax: +613 992 6483 - E-mail: allison.saunders@dfait-maeci.gc.ca

M. Short, Special Advisor, Office of the Minister, Dept. of Fisheries and Oceans, Baine Johnston Center, Suite 801, 10 Fort Williams Place, St. John's, Newfoundland A1C 1K4
 Phone: +709 772 5238 - Fax: +709 772 5244

P. Steele, Director, Enforcement Br., Conservation and Protection, Fisheries Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
 Phone: +613 990 0109 – Fax +613 941 2718 – E-mail: steelep@dfo-mpo.gc.ca

R. Steinbock, Senior Advisor, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
 Phone: +613 993 1836 - Fax: +613 993 5995 - E-mail: steinbob@dfo-mpo.gc.ca

R. Stirling, President, Seafood Producers Association of Nova Scotia, P. O. Box 991, Dartmouth, N. S. B2Y 3Z6
 Phone: +902 463 7790 – Fax: +902 469 8294 – E-mail: spans@ns.sympatico.ca

L. Strowbridge, Director, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 8021 - Fax: +709 772 2046 - E-mail: strowbridgel@dfo-mpo.gc.ca

B. Luscombe-Thomsen, Business Development Officer, Canadian Embassy, Kr. Bernikowsgade 1, DK -1105, Copenhagen K, Denmark
 Phone +45 33 483256 – Fax: +45 33 483221– E-mail: bernadette.luscombe-thomsen@dfait-maeci.gc.ca

B. Whelan, Head, NAFO Unit, Conservation and Protection, Fisheries Management, Nfld. Region, Department of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 0928 – Fax: +709 772 0008 – E-mail: whelanb@dfo-mpo.gc.ca

E. Wiseman, Director-General, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent Street, 13th Floor N, Stn 13-159, Ottawa, Ontario K1A 0E6
 Phone: +613 993 1873 - Fax: +613 993 5995 - E-mail: wisemane@dfo-mpo.gc.ca

F. Woodman, Chairman, Fisheries Resource Conservation Council, P. O. Box 2001, Station D, Ottawa, Ontario K1P 5W3
 Phone: +613 998 0433 - Fax: +613 998 1146 - E-mail: costah@dfo-mpo.gc.ca

CUBA**Head of Delegation**

E. Oltuski, Vice-Minister, Ministerio de la Industria Pesquera, 5^{ta} Avenue y 246, Sta Fe, Barlovento
Phone: +537 297008 – Fax: +537 246297 –E-mail: oltuski@fishnavy.inf.cu

Alternate

R. Matos, Director, Pesport, Ministerio de la Industria Pesquera, 5^{ta} Avenue y 246, Sta Fe, Barlovento
Phone: +537 615638 – Fax: + 537 626364 – E-mail: ferra@pesport.fishnavy.inf.cu

Representatives

E. Oltuski (see address above)
R. Matos (see address above)

DENMARK (IN RESPECT OF FAROES AND GREENLAND)**Head of Delegation**

E. Lemche, Head of Representation, Gronlands Hjemmestyre, Pilestraede 52, Box 2151, DK-1016
Copenhagen K, Denmark
Phone: +45 33 69 34 35 - Fax: +45 33 69 34 01 - E-mail: el@ghsdk.dk

Alternate

A. Kristiansen, Ministry of Fisheries and Maritime Affairs, Yvirí við Strond 17, P. O. Box 347, FO-110
Torshavn, Faroe Islands
Phone: + 298 35 30 30 - Fax: +298 35 30 37 - E-mail: andrask@fisk.fo

Advisers

J. E. Hansen, Bondahegyur 9, FO-100 Torshavn, Faroe Islands
Phone: +298 312990/210810 – Fax: +298 33 35 95 – E-mail: hogi@post.olivant.fo

K. Hansen, Ministry of Fisheries, Yvirí við Strond 17, P. O. Box 347, FO-110 Torshavn, Faroe Islands
Phone: +298 353035 – Fax: +298 313981 – E-mail: KjaHa@fisk.fo

C. Hvingel, Greenland Institute of Natural Resources, P. O. Box 570, DK-3900 Nuuk, Greenland
Phone: +299 32 1095 – Fax: +299 32 5957 – E-mail: hvingel@natur.gl

G. Jeremiassen, , Greenland Home Rule, Box 269, 3900 Nuuk, Greenland
Phone: +299 34 50 00 - Fax: +299 32 47 04 - E-mail: gi@gh.gl

J. Joensen, Manager, PF. Lidin, FO-410 Kollafjordur, Faroe Islands
Phone: +298 421448 – Fax: +298 421584 – E-mail: lidin@post.olivant.fo

M. Kruse, Vaktar-og Bjargingartaenastan, P. O. Box 347, FR-110 Torshavn, Faroe Islands
Phone: +298 311065 – Fax: +298 383981 – E-mail: vb@vb.fo

L. D. Madsen, Head of Section, Dept. of Industry, Greenland Home Rule, Box 269, 3900 Nuuk, Greenland
Phone: +299 34 53 29 - Fax: +299 32 47 04 - E-mail: ldm@gh.gl

M. T. Nedergaard, Fiskerilicensinspektør, Head of Unit, Gronlands Fiskerilicenskontrol, Postbox 501, DK- 3900
Nuuk, Greenland
Phone: +299 345377 - Fax: +299 323235 - E-mail: mads@gh.gl

A. Nicolajsen, Fiskirannsoknarstovan, Noatun, P. O. Box 3051, FR-110 Torshavn, Faroe Islands
Phone: +298 1 5092 - Fax: +298 1 8264 - E-mail: arninic@frs.fo

J. Nordbud, Foroya Reidarafelag, Box 361, FO-101 Torshavn, Faroe Islands
Phone: +298 311086 – Fax:+298 320380 – E-mail: shipown@post.olivant.fo

P. M. Pedersen, Greenland Sea Fishery and Export Association, (APK), P. O. Box 310, 3900 Nuuk,
Greenland
Phone: +299 322 404 – Fax: +299 325689 – E-mail: peder@apk.gl

J. H. Toftum, Ministry of Fisheries, P. O. Box 64, FO-100 Torshavn, Faroe Islands
Phone: +298 353030 - Fax: +298 353035 - E-mail: jenst@fisk.fl.fo

ESTONIA

Head of Delegation

A. Soome, Director General, Fishery Resources Dept., Ministry of the Environment, Marja 4d, 10617 Tallinn
Phone: +372 6112 987 - Fax: +372 6567 599 - E-mail: ain.soomer@ekm.envir.ee

Representative

A. Soome (see address above)

Advisers

K. Märtin, Officer, Fisheries Department, Ministry of the Environment, Marja 4d, 10617 Tallinn
Phone: +372 656 7315 - Fax: +372 6567 599 – E-mail: kaire.martin@ekm.envir.ee
T. Roose, Deputy Director General, Estonian Environmental Inspectorate, Kopli 76, 10416 Tallinn
Phone: +3726962233 – Fax: +3726962237, E-mail: tarvo.roose@kki.ee
V. Ruul, General Manager, Permarmare Ltd., Rütüli14/Nikolai 7, 80011 Pärnu
Phone: +372 44 70303 / 70301 – Fax: +372 44 70302 – E-mail: permarmare@hotmail.ee
T. Saat, Director, Estonian Marine Institute, University of Tartu, 18b Viljandi Road, 11216, Tallinn
Phone: +372 6281 570 - Fax: +372 6281 563 - E-mail: tsaat@sea.ee
A. Sõna, Manager, Reyktal Ltd., Veerenni 39, 10138 Tallinn
Phone: +372 6276 552 - Fax: +372 6276 555 - E-mail: reyktal@trenet.ee
T. Tamme, Roosikrantsi 2, 10119 Tallinn
Phone: +372 6110810 - Fax: +372 6110811 - E-mail: toomeu@alvinab.ee
L. Vaarja, Councillor, Ministry of the Environment, Fishery Resources Dept., Marja 4d, 10617 Tallinn
Phone: +372 656 - Fax: +372 6567 599 – E-mail: lauri.vaarja@ekm.envir.ee
O. Ynvgason, Managing Director, Icelandic ExportCenter Ltd., Sidumuli 34, P. O. Box 1764, 121 Reykjavik, Iceland
Phone: +354 588 7600 – Fax: +354 588 7610 – E-mail: ottar@iec.is

EUROPEAN UNION

Head of Delegation

J. Spencer, Head of Unit, International and Regional Arrangements, European Commission, Fisheries Directorate-General, 200 Rue de la Loi/Wetstraat, B-1049 Brussels, Belgium
Phone: +32 2 295 6858 - Fax: +32 2 295 5700 – E-mail: edward-john.spencer@cec.eu.int

Advisers

F. Wieland, Deputy Head of Unit, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi 200, B-1049 Brussels, Belgium
Phone: +32 2 296 3205 - Fax: +32 2 296 5951 - E-mail: Friedrich.Wieland@cec.eu.int
B. O'Shea, Senior Administrative Assistant, European Commission, Directorate General for Fisheries, Rue de la Loi/Wetstraat 200 (J99 1/27), B-1049 Brussels, Belgium
Phone: +32 2 296 6748 - Fax: +32 2 296 2338 – Email: brendan.o'shea@cec.eu.int
S. Ekwall, Administrator, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
Phone: +32 2 299 6907 - Fax: +32 2 295 5700 - E-mail: Staffan.Ekwall@cec.eu.int
K. Patterson, European Commission, Directorate General for Fisheries, Rue de la Loi 200, B-1049 Brussels, Belgium
Phone: + 32 2 299 8227 - Fax: +32 2 295 5621 – Email: kenneth.patterson@cec.eu.int

- P. Heller, European Commission, Rue de la Loi 200, B-1049 Brussels, Belgium
Phone: +32 2 295 6445 – Fax: +322 299 1046 – E-mail: per.heller@cec.eu.int
- G. F. Kingston, Senior Adviser, Economic and Commercial Affairs, Delegation of the European Commission in Canada, 45 O'Connor Street, Suite 1900, Ottawa, Ontario, Canada K1P 1A4
Phone: +613 238 6464 – Fax: +613 238 5191 – E-mail: fred.kingston@delcan.cec.eu.int
- L. Svensson, Administrator, Council of the European Union, DG-BIII-Fisheries, Rue de la Loi 175, B-1048 Brussels, Belgium
Phone: +32 2 285 7853 - Fax: +32 2 285 6910 - E-mail: lars-evik.svensson@consilium.eu.int
- F. Curcio Ruigomez, Subdirector General de Organismos Multilaterales de Pesca, Direccion General de Recursos Pesqueros, Ministerio de Agricultura, Pesca y Alimentacion, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 91347 6047 – Fax: +34 913476049 – E-mail: fcurcio@mapya.es
- R. Akesson, Ministry for Agriculture and Fisheries, 10333 Stockholm, Sweden
Phone +46 08 405 1122 - Fax: +46 08 10 5061 - E-mail: rolf.akesson@agriculture.ministry.se
- S. Feldthaus, Head of Section, Ministry of Food, Agriculture and Fisheries, Holbergsgade 2, 1057 Copenhagen, Denmark
Phone: +45 33 92 35 60 – Fax: +45 33 11 82 71 – E-mail: sfe@fvn.dk
- Y. Becouarn, Direction des pêches maritimes et d l'aquaculture, Bureau de la ressource, de la réglementation et des affaires Internationales, Ministère de l'agriculture et de la pêche, 3, place de Fontenoy, 75007 Paris
Phone: +330149558238 – Fax: +33 0149 558200/7437 – E-mail: yann.becouarn@agriculture.gouv.fr
- H. Pott, Bundesministerium für Ernährung, Landwirtschaft und Forsten, Rochusstr. 1, D-53125 Bonn, Germany
Phone: +49 228 529 4124 - Fax: +49 228 529 4410 – Email: hermann.pott@bml.bund.de
- E. Riediger, Doggerbank Seefischerei GmbH, Groenlandstrasse 1, 27531 Bremerhaven, Germany
Phone: +49 047171096 – Fax: +49 047173437
- H.-J. Rätz, Institut für Seefischerei, Palmaille 9, D-22767, Hamburg, Germany
Phone: +49 40 389 05169 – Fax: +49 40 389 05263 – E-mail: raetz.ish@bfa-fisch.de
- M. Stein, Institut für Seefischerei, Palmaille 9, D-22767, Hamburg, Germany
Phone: +49 40 389 05174 – Fax: +49 40 38905 263 E-mail: stein.ish@bfa-fisch.de
- E. Monteiro, Director-General, Direcção Geral das Pescas e Aquicultura, Edifício Vasco da Gama, Rua General Gomes Araujo, 1399-006 Lisbon, Portugal
Phone: +351 21 3914387 - Fax: +351 21 3979790 - E-mail: euricom@dg-psces.pt
- M. H. Figueiredo, Directora de Serviços, Dept. de Relações Comunitárias, Internacionais e de Cooperação, Direcção Geral das Pescas e Aquicultura, Edifício Vasco da Gama, Rua General Gomes Araujo, 1399-006 Lisbon, Portugal
Phone: +351 21 391 3560 Fax: +351 21 3979790 E-mail: hfigueir@dg-pescas.pt
- M. I. Aragon, Jefa Sección de la Subdirección General de Organismos Multilaterales de Pesca, Secretaría General de Pesca Marítima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 91 4025000 - Fax: +34 91 3093967 - E-mail: iaragonc@mapya.es
- A. Hermida Trastoy, Director General de Estructuras y Mercados de la Pesca, Conselleria de Pesca y Asuntos Marítimos Xunta de Galicia, Calle del Sar, 75, Santiago de Compostela 15702, A Coruna, Spain
Phone: + 34981546347 - Fax: +34981546288 – E-mail: andres.hermida.trastoy@xunta.es
- J. Del Hierro, Subdirección General de Inspección Pesquera, Secretaría General de Pesca Marítima, c/ Castellana 112, 5ª Pto, Madrid, Spain
Phone: +34 91 3471645 - Fax: +34 91 3471512 – E-mail: jdellhier@mapya.es
- P. Rueda Crespo Palma, Delegada Territorial de Pontevedra en Vigo, Conselleria de Pesca y Asuntos Marítimos, c/2, Vigo 36002, Spain
Phone: +34 986 817139 – E-mail: paloma.rueda.crespo@xunta.es
- E. De Cardenas, Institute Espanol de Oceanografía, Avenida de Brasil 31, 28020 Madrid, Spain
Phone: +34 91 5974443 – Fax: +34 91 5974770 – E-mail: e.decardenas@md.ieo.es
- M. Rimmer, Sea Fisheries Conservation Div., Department for Environment, Food and Rural Affairs, Room 423b Nobel House, 17 Smith Square, London SW1P 3JR
Phone: +44 (0)20 7238 6529 - Fax: +44 (0)20 7238 5721 - E-mail: mike.rimmer@defra.gsi.gov.uk
- P. Franca, Presidente, A.D.A.P.I. – Associação Armadores das Pescas Industriais, Docapesca, Edifício Dos Armadores 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +213015020 - Fax: +213019438 - E-mail: adapi.pescas@mail.telepac.pt
- A. Paiao, Director, A.D.A.P.I.-Associação dos Armadores das Pescas Industriais, Docapesca, Edifício dos Armadores, 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +351 213015020 – Fax: +351 213019438 – E-mail: adapi.pescas@mail.telepac.pt

J. R. Fuertes Gamundi, Director Gerente, ANAMER-ANAVAR-AGARBA, Puerto Pesquero, Apartado 1.078, 36200 Vigo, Spain
 Phone: +34 986 433844 - Fax: +34 986 439218 – E-mail: soccoopa@aranzadi.es

M. Liria Franch, Presidente, Federacion Espanola de Organizaciones Pesqueras (FEOPE), C/Comandante Zorita, 12, Escalera 4ª - 1ºD, 28020 Madrid, Spain
 Phone: +34 915 33 3884 – Fax: +34 915 34 3718 – E-mail: feope@feope.com

C. Real Rodriguez, Presidente de "ASPE", Vigo, Spain
 Phone: +34 986 818190 – Fax: +34 986 818318 – E-mail: cesar.real@pescanova.es

M. Iriondo, Director Gerente, Pesquera Laurak Bat S.A., Armadores de Buques de Pesca, Edificio Consignatarios, 3a Planta. Puerto Apdo. de correos, 88 20110 Pasajes, Spain
 Phone: +34 943 354177 – Fax: +34 943 353993 – E-mail: langa99@teleline.es

J. L. Meseguer Sanchez, Secretario General, ARBAC – Asociacion de empresas de pesca de bacalao, especies afines y asociadas, Enrique Larreta, 10-3º, 28036 Madrid, Spain
 Phone: +34 913 151965 – Fax: +34 913 152673

R. Pombo, Director Gerente, Transpesca, S.A., Plaza de Compostela, 17 - 5ºB, 36201 Vigo, Spain
 Phone: +34 986 443190 – Fax: +34 986 221485 – E-mail: transpes@infonegocio.com

FRANCE (in respect of St. Pierre et Miquelon)

Head of Delegation

M. Plantegenet, Président du Conseil General de Saint Pierre et Miquelon, B.P. 187, 97500 Saint-Pierre et Miquelon
 Phone: +508 410102 – Fax: +508 412297 – E-mail: mplantegenet@cencom.net

Alternate

D. Silvestre, Chargé de Mission, Secrétariat Général de la mer, 16, boulevard Raspail, 75007 Paris
 Phone: +53634153 – Fax: +53634178 – E-mail: daniel.silvestre@sgmer.premier-ministre.gouv.fr

Advisers

M. Chapalain, Chef du Service des Affaires maritimes, 1 rue Gloanec, 97500 Saint-Pierre et Miquelon
 Phone: +508 411530 – Fax: +508 414834 – E-mail: chefsam@cancom.net

B. Detcheverry, Directeur General, Interpeche S.A., Société des Pêches de Archipel, Quai du Môle Frigorifique, B.P.4249, 97500 Saint-Pierre et Miquelon
 Phone: +508 413991 – Fax: +508 413838 / 419947 – E-mail: interpeche@wanadoo.fr

D. Ortolland, Ministere des Affaires Etrangeres, 37 quai d'Orsay, 75007 Paris 07 SP
 Phone: +0143175339 – Fax: +0143175505 – E-mail: didier.ortolland@diplomatie.gouv.fr

ICELAND

Head of Delegation

T. Skarphedinsson, Legal Adviser, Ministry of Fisheries, Skulagata 4, 150 Reykjavik
 Phone: +354 560 9670 – Fax: +354 562 1853 - E-mail: thorir@hafro.is

Advisers

H. Gisladottir, The Icelandic Directorate of Fisheries, Ingilfsstraeti, 150 Reykjavik
 Phone: +354 5697900 - Fax: +354 5697991 - E-mail: hrefnag@fiskistofa.is

H. Laxdal, President, The Icelandic Engineer Officers Association, Borgartun 18, 105 Reykjavik
 Phone: +354 562 9062 – Fax: +354 562 9096 –E-mail: hl@vsfi.is

K. Ragnarsson, Chairman, Federation of Icelandic Fishing Vessel Owners, P. O. Box 893, 121 Reykjavik
 Phone: +354 550 9500 - Fax: +354 550 9501 – E-mail: kristjan@liu.is

T. Sigurdsson, Marine Research Institute, Skulagata 4, 101 Reykjavik
 Phone: +354 5520240 - Fax: +354 5623790 - E-mail: steini@hafro.is

H. Steinsson, The Icelandic Directorate of Fisheries, Ingilfsstraeti, 150 Reykjavik
 Phone: +354 5697900 - Fax: +354 5697991 - E-mail: hostein@hafro.is

JAPAN**Head of Delegation**

S. Yuge, Councillor, Resources Management Dept., Fishery Agency Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100
Phone: +81 3 3502 8111 (ext. 7007) - Fax: +81 3 3502 0571

Alternate

K. Iino, Minister Counsellor, Embassy of Japan, Pilestraede 61, 1112 Copenhagen K, Denmark
Phone: +45 33 11 33 44 – Fax: +45 33 11 33 77

Advisers

S. Fukui, International Affairs Division, Fisheries Agency, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8907
Phone: +81 3 3591 1086 – Fax: +81 3 3802 0571 – E-mail: shingo-fukui@nm.maff.go.jp
K. Sawano, 3-27, Kioi-cho, Chiyoda-ku, Tokyo 102-0094
Phone: +81 3 3265 8302 – Fax: +81 3 3262 2359 – E-mail: sawano@jamanc.go.jp
K. Suzuki, Assistant Director, Fisheries Div., Economic Affairs Bureau, Ministry of Foreign Affairs, 2-11-1 Shibakoen, Minato-ku, Tokyo 105-8519
Phone: +81 3 6402 2234 – Fax: +81 3 6402 2233 – E-mail: keiko.suzuki@mofa.go.jp
N. Takagi, Director, Executive Secretary, Japan Deep Sea Trawlers Association, Ogawacho-Yasuda Bldg., 6 Kanda-Ogawacho, 3-Chome, Chiyoda-ku, Tokyo 101-0052
Phone: +81 33 291 8508 – Fax: + 81 33 233 3267 – E-mail: jdsta-takagi@msg.biglobe.ne.jp
M. Fischer (Interpreter), General Manager, Miki Travel Agency ApS, Gammel Koge Landevej 117-1, DK-2500 Valby, Copenhagen, Denmark
Phone: +45 36 178811 – Fax: +45 36 178812 – E-mail: miki@mikittravel.dk

LATVIA**Head of Delegation**

N. Riekstins, Director, National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
Phone: +371 732 3877 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv

Alternate

R. Derkacs, Head of International Agreements and Legal Division, National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
Phone: +371 732 3877 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv

Advisers

U. Rinkis, Senior Officer, Fisheries and Fish Resources Div., National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
Phone: +371 733 4478 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv
D. Kalinov, President, "Mersrags" Ltd., Brivibas Gatve 215A-46, LV-1039 Riga
Phone: +371 754 2471 – Fax: +371 755 2593 – E-mail: skaga@latnet.lv

LITHUANIA

Head of Delegation

V. Vaitiekunas, Director, Fisheries Dept. under the Ministry of Agriculture, 19 Gedimino str., Vilnius 2600
Phone: +370 02 391174 – Fax: 37002 341176 – E-mail: vytautasv@zum.lt

Alternate

A. Rusakevicius, Fisheries Department under the Ministry of Agriculture, 19 Gedimino St., 2600 Vilnius
Phone: +370 2 391183 - Fax: +370 2 391176 - E-mail: algirdasr@zum.lt

NORWAY

Head of Delegation

P. Gullestad, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
Phone: +47 55 23 80 00 Fax: +47 55 23 80 90 E-mail: peter.gullestad@fiskeridir.dep.telemax.no

Alternate

T. Lobach, Senior Legal Adviser, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
Phone: +47 55 23 80 00 Fax: +47 55 23 80 90 E-mail: terje.lobach@fiskeridir.dep.telemax.no

Advisers

W. Barstad, Norwegian Fishing Vessel Owners Association, P.O. Box 67 Sentrum, 6001 Aalesund
Phone: +47 70 10 14 60 - Fax: +47 70 10 14 80 - E-mail: webjorn@fiskebatreder.no
E. K. Viken, Executive Officer, Norwegian Ministry of Fisheries, P. O. Box 8118 Dep., 0032 Oslo
Phone: +47 22 24 6482 – Fax: +47 22 24 9585 – E-mail: ellen.viken@fid.dep.no

POLAND

Head of Delegation

J. Gozdzikowski, Deputy Director, Fisheries Department of the Ministry of Agriculture & Rural Development,
Wspólna 30, 00-930 Warsaw
Phone: +48 22 6280826 – Fax: +48 22 623 2204 – E-mail: jan.gozdzikowski@minrol.gov.pl

Advisers

L. Dybiec, Counsellor to the Minister, Ministry of Agriculture and Rural Development, Fisheries Department,
Wspólna 30, 00-930 Warsaw
Phone: +48 22 628 9684 – Fax: +48 22 623 2204 – E-mail: leszek.dybiec@minrol.gov.pl
B. Szemioth, Parkowa 13/17/123, Warszawa
Phone: +48228408920 – Fax: 48228408920 – E-mail: szemioth@alpha.net.pl

RUSSIA

Head of Delegation

A. N. Makoedov, Deputy Chairman, State Committee for Fisheries of the Russian Federation, 12
Rozhdestvensky Boul., Moscow 103031
Phone: +7 095 928 5527 - Fax: +7095 928 5527

Representative

A. N. Makoedov (see address above)

Advisers

V. E. Agalakov, "MURMANRYBVOD", Komintern 5 str., 183672 Murmansk
Phone: +7 8152 453562 – Fax: +47 789 10217 – E-mail: mrvt@an.ru

V. K. Babayan, Head of Laboratory for System Analysis of Fishery Resources, VNIRO, 17, V. Krasnoselskaya, Moscow 107140
Phone: +70 95 264 6983 – E-mail: vbabayan@vniro.ru

O. I. Novokrechenov, Deputy Chief, International Dept., State Committee for Fisheries of the Russian Federation, 12 Rozhdestvensky Boul., Moscow 103031
Phone: +7095 928 2679 – Fax: +7095 9213463 – E-mail: mikulina@fishcom.ru

A. Okhanov, Russian Representative on Fisheries in Canada, 47 Oceanview Drive, Bedford, Nova Scotia, Canada B4A 4C4
Phone: +902 832 9225 – Fax: +902 832 9608 – E-mail: rusfish@ns.sympatico.ca

Y. Piskarev, Russian Fisheries Representative, Embassy of the Russian Federation, Kristianiagade 5, 2100 Copenhagen, Denmark
Phone: +45 3542 5585/86 – Fax: +45 3542 3741 – E-mail: fis.comm@mail.tele.dk

B. F. Prischepa, Head of Department, "MURMANRYBVOD", Komintern 5 str., 183038 Murmansk
Phone: +7 8152 458679 – Fax: +47 789 10676 – E-mail: mrvt@an.ru

V. Shibanov, Research Director, PINRO, 6 Knipovich St., Murmansk 183763
Phone: +7 8152 4734 61 – Fax: +47 789 10 518 – E-mail: inter@pinro.murmansk.ru

V. N. Solodovnik, Deputy Chief, Dept. of International, Legal and Biological Foundations in Fisheries, VNIRO, 17, V. Krasnoselskaya, Moscow 107140
Phone: +7095 264 9143 – Fax: +7095 264 9187

E. Volkovinskaya, Interpreter, PINRO, 6 Knipovich St., Murmansk
Phone: +7 8152 4734 61 – Fax: +47 789 10 518 – E-mail: inter@pinro.murmansk.ru

UKRAINE**Head of Delegation**

V. B. Chernik, Deputy Chairman, State Department for Fisheries of Ukraine, 82A Turgenivska str., Kiev, 04050
Phone: +38044 226 2405 - Fax: +380 44 226 2405 – E-mail: nauka@i.kiev.ua

Advisers

V. Litvinov, Senior Expert, Div. for International Fishing Policy, State Department for Fisheries of Ukraine, 82A Turgenivska str., Kiev 252053
Phone: +38044 246 8984 - Fax: +38044 246 8984 – E-mail: nauka@i.kiev.ua

Y. Pavlov, Counsellor, Charge d'Affaires a.i., Embassy of Ukraine, Toldbodgade 37 A, 1 sal, DK-1235 K, Copenhagen, Denmark
Phone: +45 33 161635 – Fax: +45 33 160074 – E-mail: embassy.ua@mail.tele.dk

L. Petsyk, Director, Chernomorskaya Rybolovnaya Kompania Ltd., 12, Safronova, Sevastopol
Phone: +38 0692451905 – Fax: +38 0692 577277

UNITED STATES OF AMERICA**Head of Delegation**

P. Kurkul, Regional Administrator, Northeast Region, National Marine Fisheries, 1 Blackburn Drive, Gloucester, MA 01930
Phone: +978 281 9250 - Fax: +978 281 9371 - E-mail: pat.kurkul@noaa.gov

Representatives

P. Kurkul (see address above)

J. Pike, Director, Government Relations, Scher and Blackell, Suite 900, 1850 M Street NW, Washington, DC 20036

Phone: +202 463 2511 - Fax: +202 463 4950 - E-mail: jpik@sherblackwell.com

B. D. Stevenson, Seller's Representative, 2 Portland Fish Pier, Suite 109, Portland, ME 04101

Phone: +202 775 5450 – Fax: +207 773 9096 – E-mail: bds02@sprynet.com

Advisers

J. Anderson, Fisheries Management Specialist, Northeast Region, National Marine Fisheries Service, U.S. Department of Commerce, 1 Blackburn Dr., Gloucester, MA 01930

Phone: +978 281 9226 - Fax: 978-281-9135 - E-mail: jennifer.anderson@noaa.gov

P. Martin, Lieutenant Commander, Coast Guard Liaison Officer, Office of Marine Conservation (Rm 5806), U.S. Department of State, 2201 C Street NW, Washington, D.C. 20520

Phone: +202 647 3177 - Fax: +202 736 7350 - E-mail: pmartin@comdt.uscg.mil

R. Mayo, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543

Phone: +508 495 2310 - Fax: +508 495 2393 - E-mail: ralph.mayo@noaa.gov

P. Moran, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Hwy., Silver Spring, MD 20910

Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: pat.moran@noaa.gov

W. Quinby, Director, Mayflower Shipping Ltd., 655 Summer Street, Boston, MA 02210

Phone: +843 577 0560 – Fax: +843 577 6644 – E-mail: mayflower@mindspring.com

F. M. Serchuk, Chief, Resource Evaluation and Assessment Division, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543-1097

Phone: +508 495 2245 - Fax: +508 495 2258 - E-mail: fred.serchuk@noaa.gov

D. E. Swanson, Chief, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Highway, Silver Spring, MD 20910

Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: dean.swanson@noaa.gov

OBSERVER

D. J. Douman, Senior Fishery Liaison Officer, Food and Agriculture Organization of the United Nations (FAO), International Institutions and Liaison Service, Fishery Policy and Planning Division, Fisheries Dept. Viale delle Terme di Caracalla, Room F-409, 00100 Rome, Italy

Phone: +39 0657 056752 – Fax: +39 0657 056500 – E-mail: david.doulman@fao.org

SECRETARIAT

L. I. Chepel, Executive Secretary

F. D. Keating, Administrative Assistant

B. J. Cruikshank, Senior Secretary

S. Goodick, Accounting Officer

G. Moulton, Statistical/Conservation Measures Officer

F. E. Perry, Desktop Publishing/Documents Clerk

SECRETARIAT ASSISTANCE

M. Hansen, Greenland Home Rule Office, Copenhagen

Annex 2. Opening Statement by the Representative of Canada
(P. Chamut)

Mr. Chairman, distinguished representatives, Ladies and Gentlemen:

It is a pleasure for Canada to participate at this Special NAFO meeting in the delightful city of Helsingør.

On behalf of the Canadian delegation, I extend thanks to the Danish Government, on behalf of Greenland and the Faroe Islands, for hosting this session, and for their usual warm hospitality.

I would first like to begin by expressing our regrets for the inconvenience and disruption arising from the postponement of the annual meeting. We recognize that this has caused difficulties for Cuba in particular, but also for all delegations and the NAFO Secretariat. The postponement was a result of the tragic events of September 11, 2001 and the ensuing travel difficulties. I would ask for your understanding of why continuation of the meeting under the circumstances at the time was not possible.

I would like to commend the expediency and the efficiency with which NAFO Parties and the Secretariat were able to deal with the fall out of the postponement and rescheduling this Special meeting.

Mr. Chairman, I wish to highlight the importance that Canada places on this Special meeting. While both the duration of and agenda for our discussions have been reduced, this in no way diminishes the importance of the meeting, or the weight we attach to the outcome. In fact, the reverse is quite true. There are many serious issues that must be addressed, and the results of our discussions will have implications for this organization in the future.

NAFO has come through a difficult and challenging decade. We have witnessed the collapse of groundfish stocks assigned to the stewardship of this Commission, and the imposition of moratoria to rebuild stocks that were once abundant. The closure of these fisheries affected all Parties around this table, but none more so than Canada, where our fishing communities have been devastated by the loss of the economic foundation that had sustained them for centuries. When stocks collapsed, our fishermen had no where else to go.

Over the decade, this Commission shifted its focus to stock protection, and rebuilding of the once abundant groundfish in the Convention Area. Constructive changes were made by adopting conservation measures, and taking steps to deter unsustainable fishing practices of the past. We had learned that effective adherence to our conservation regime was a prerequisite for stock recovery.

Despite measures taken, the state of many stocks continues to be at historically low levels and the slow progress toward recovery remains fragile. Against this backdrop, it is both discouraging and alarming to review recent information in the report of the Scientific Council which shows that unsustainable fishing practices are not necessarily a thing of the past.

There are moratoria in place for 3LNO American Plaice and 3NO Cod. Despite this, catches of plaice in 2000, were double the catches reported in 1999, reaching 5200t. A similar situation is reported for 3NO cod. The reported catch has doubled in the past two years, and has increased by over 500% in the past four years.

The exploitation rate for these two stocks is increasing, and for plaice is now approaching the level of F0.1. Continuation of the current level of catch will thwart stock recovery, and likely result in further stock declines.

What is most disturbing is that these levels of catch are not the result of bycatch in legitimate fisheries. They occur as a consequence of directed fisheries on moratoria stocks, and during this meeting Canada intends to illuminate this issue in greater detail.

We also intend to provide the Commission with other information which suggests that non-compliance with NAFO measures is also occurring in the shrimp fishery.

These danger signals are not new – the Scientific Council has reported on increasing catches of moratoria species in several of their recent reports. Indeed, they were discussed at the meeting of the Fisheries Commission in 2000. At that time, the Commission committed to establish and implement measures to reduce excessive catches of moratoria species, and protect juvenile fish. It is clear that this Commission must address this issue.

At this meeting, Canada is proposing an integrated package of measures to address the evident problems. These measures were presented and discussed at the June 2001 STACTIC meeting. These measures should eliminate directed fisheries for moratoria species, reduce incidental bycatch of moratoria species, and provide protection to juveniles of several species. This can be accomplished with minimal impact on the conduct of legitimate fisheries.

NAFO must act now to fill the loopholes in the NAFO conservation measures and eliminate non-compliance, both of which undermine NAFO's conservation objectives. As a coastal State, Canada has put in place strong rules and monitoring measures inside our waters to protect the species under moratoria and reduce bycatches of moratoria species. As fishing nations who harvest these same straddling stocks, you have an obligation to cooperate with Canada in adopting strong and effective rules for the NAFO Regulatory Area.

Mr. Chairman, NAFO must act now to implement sound management measures to address the problems we have outlined. The measures Canada has put on the table are reasonable, responsible and the right thing to do. We urge NAFO to adopt them.

I am looking forward to a constructive meeting – one which will advance the interests of this organization and its members, and provide a brighter future for all those who are reliant upon the fishery resources under our stewardship.

Thank you.

Annex 3. Opening Statement by the Representative of the European Union (J. Spencer)

Mr Chairman, distinguished delegates, ladies and gentlemen,

It is a great pleasure for my delegation and I to be here at this Special Meeting of NAFO here in Helsingør and its beautiful surroundings. It is in particular a great honour for me to be here today to lead the Community delegation for the first time in this prominent organisation, traditionally known for being in the forefront in international fisheries. On behalf of my delegation, I also wish to thank Denmark, on behalf of Greenland and the Faroe Islands, for their hospitality and for arranging this meeting at such short notice to replace the Annual Meeting which was cancelled due to the tragic events in the US. This was indeed very unfortunate but inevitable under the given circumstances. We would like to express our appreciation to Cuba for arranging the Annual Meeting.

This delegation cannot but stress our continued belief in the future of the fishery in the North West Atlantic. We believe that this fishery must be based on sound and effective conservation and management measures, adopted on the basis of the best possible scientific advice available. This is the task of the Contracting Parties of NAFO. If it fails, we have not fulfilled our obligation to guarantee future generations, our children and grandchildren, a sustainable fishery in the long term. I believe that this task is particularly important these days when the stock situation in many aspects remains depressing.

In this respect, I find it disappointing, and note with concern, that the fishing mortality for some species continue to increase despite being under moratoria. This is indeed a worrying trend and effective measures must be introduced to reduce the outtake in order to ensure the effectiveness of the moratoria in place. My delegation very much appreciates the measures proposed by Canada to reduce by-catches but it remains to be seen if they are the most appropriate ones. In any case, this delegation will insist that measures are transparent, non-discriminatory, effective and enforceable. We would also prefer a more systematic review of the measures in place and we are not particularly in favour of introducing new measures every year without a proper follow-up assessment of measures just introduced.

Furthermore, the European Community insists that there must be consistency and compatibility between action taken both with in waters under national jurisdiction and beyond. I am, therefore, profoundly concerned that once again, Canada has opened a fishery for cod in the area 2J3KL, this time for a three year period and in a manner which is inconsistent with scientific advice, and which defies the repeated concerns expressed at the 1999 and 2000 NAFO Annual Meetings. I find this very regretful and sincerely hope that Canada will revisit this decision. The basis for decision must remain conservation and management of this stocks throughout their entire area of distribution.

Mr Chairman, I believe we have a number of particularly challenging issues ahead of us this week, among others the issues of shrimp fishery in Division 3M and redfish in Division 1F and the future of the dispute Settlement Procedures in NAFO.

With regard to the shrimp fishery in Division 3M, it is becoming more and more evident that the current effort limitation system is not working properly. This is clearly shown by the fact that in 2000, catches were around 166 % of the recommended level while only 60 % of the fishing days were used. Even if the advice from the Scientific Council is more positive for this year, it will in the long run be inevitable to either introduce more appropriate measures or improve the current

system. Otherwise, we might have to face the depletion of yet another valuable stock in the NAFO Area.

Yet another major challenge will be the 1F redfish issue. To my knowledge, this is indeed the first time in the history of international fisheries that a stock managed by one regional fisheries organisation has started to migrate into the Convention Area of another regional fisheries organisation. I note that the core part of the stock is found in the NEAFC Area but it will nevertheless be necessary to establish a cooperation mechanism between NAFO and NEAFC.

On the establishment of a NAFO Dispute Settlement Procedure, the Community would like to see some real progress. This delegation has already stressed its position on this point on many previous occasions so I don't find it necessary to repeat it again. I would, however, like to remind all of the proposal for a fully fledged dispute settlement mechanism which was presented by the EU delegation at the end of the last Working Group meeting. This proposal should be seen as a compromise solution in view of the discussions in the Working Group and could form the basis of a future dispute settlement mechanism in NAFO.

Mr Chairman, there are of course other important issues of great importance, like procedures for the election of a new Executive Secretary just to mention one of them. At this point, I wish all delegates the best towards achieving a very successful meeting. The Community delegation look forward to working with you all in a constructive manner so that the overall objectives of sound conservation and management of this organisation can be reached.

Thank you.

Annex 4. Opening Statement by the Representative of Estonia
(A. Soome)

Mr Chairman, distinguished delegates, ladies and gentlemen,

It is a pleasure for Estonia to participate at this Special NAFO Meeting here in the small and beautiful city of Helsingør. Let me thank the Danish Delegation for arranging this meeting and providing excellent facilities for our work during this week.

In preparing for this meeting it was very encouraging to learn that the scientific advice to one of the very important stocks of the NAFO Convention Area - 3M shrimp - is 50% higher than it was for previous year. It is the sign of our good management of this stock and also acknowledgement to our work in this Organization.

Mr. Chairman, we have the pleasure to assure you that Estonia is prepared to work with you and with all Contracting Parties around this table in a constructive manner to achieve our goals.

Thank-you.

**Annex 5. Opening Statement by the Representative of the
Russian Federation (A. Makoedov)**

Mr. Chairman, Dear Colleagues,

First we would like to thank Mr. Oltuski, the President of NAFO and Chairman of the General Council, for welcoming all the Delegates to the Session. We also wish to express our gratitude to Denmark (in respect of the Faroe Islands and Greenland) for hosting this Special Meeting of NAFO.

The Russian Federation is in a position of understanding towards those countries which delegations were not able to arrive to Cuba for the September Meeting last year. And, once again let us express our deep sorrow to the United States of America for the tragedy of 11th September last year.

Recognizing the high responsibility of our scientists whose scientific advice forms the basis for making decisions, we hope that when considering management measures of stocks the allowance will be made for specific character of such measures as well as for time limit of their application so that afterwards we could provide for a possibility to evaluate the effectiveness of the measures adopted.

Thank-you.

Annex 6. Opening Statement by the Representative of Ukraine
(V. Chernik)

Mr. Chairman, Dear Colleagues,

First of all let me express my sympathy to the USA Delegation for the tragic events of September 11th last year. We consider it as a tragedy of all mankind, among the victims of which the Ukrainian citizens were, as well as the citizens of other NAFO Contracting Parties. May I express my confidence that this distress has brought us closer to each other.

After passing this test we have become stronger and I believe we shall understand each other much better and be much more flexible in approaching problems and positions of each other.

Ukraine's position concerning management of resources and access to them is that the Convention on the Law of the Sea should continue to cover not only EEZ, but also the NAFO zone.

We would like to express our gratitude to the Danish delegation which has found it possible to organize the NAFO session in this country twice in a year. We will do our best to work constructively and expect such an attitude from other delegations.

Thank-you.

Annex 7. Opening Statement by FAO to the Special Meetings of the Northwest Atlantic Fisheries Organization

Mr. Chairman and distinguished delegates:

FAO is again very grateful for the invitation extended by NAFO's Secretariat to observe these meetings. FAO has a close and effective working relationship with NAFO and it is FAO's desire that this collaboration should continue.

FAO appreciates, in particular, the cooperativeness of the NAFO Secretariat in responding to FAO's periodic requests for information relating to NAFO's activities. These requests are made to NAFO and other regional fishery management organizations once or twice a year. FAO is well aware that such requests create additional work for the secretariats of these organizations that are already hard pressed with their own day to day activities. The NAFO Secretariat always responds fully and in a timely manner. This collaboration greatly assists FAO in meeting its global fisheries reporting responsibilities.

These NAFO meetings will address issues of critical importance to the sustainable management of fisheries in the Northwest Atlantic Ocean. FAO looks forward to seeing the meetings reach fruitful conclusions.

In its work relating to illegal, unreported and unregulated (IUU) fishing, FAO has recently completed technical guidelines within the framework of the Code of Conduct for Responsible Fisheries to assist with the implementation of the *International Plan of Action to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing*. These guidelines should be available for distribution in all official languages of the Organization in April 2002.

In addition, I would like to advise this session that FAO has commissioned a study concerning open registries. It will review and analyze activities relating to fishing fleets from countries operating open registries and, in particular, those activities that result from countries not exercising effective flag-State control over their fleets. The review will be based on information available in the public domain, and in particular information available from regional fishery management organizations, including NAFO, and the open registry countries themselves. The study should be completed by mid-2002.

Since the last meeting of the NAFO General Council the 1995 UN Fish Stocks Agreement has entered into force. FAO welcomes this development but would also like to appeal to countries that have not accepted the 1993 FAO Compliance Agreement to do so. Currently, this Agreement has 22 acceptances. An additional three acceptances are required to bring it into force. The entry into force of the Compliance Agreement will enhance the manner in which high seas fisheries are managed. It is FAO's hope that this Agreement will enter into force before the end of 2002.

Let me conclude, Mr. Chairman, by saying that I bring to the meeting greetings from FAO's Assistant Director-General for Fisheries, Mr. Ichiro Nomura. He wishes the meetings every success in its deliberations

Thank you very much.

Annex 8. Agenda

1. Opening by Chairman, E. Oltuski (Cuba)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Publicity
5. Formulation of selection criteria, procedures and timetable for an Administrative Committee on the recruitment of a new Executive Secretary
6. Report of STACFAD
7. Adoption of the Budget for 2002
8. Other business
 - a) Administrative Report
 - b) FAO International Plans of Action on the Management of Fishing Capacity, Shark Fisheries and Incidental Catch of Seabirds in Longline Fishery
 - c) Report of Working Group on Dispute Settlement Procedures (DSP)
9. Election of Chairman and Vice-Chairman
10. Time and Place of next Annual Meeting
11. Adjournment

Annex 9. Press Release

1. The special meetings of the General Council and Fisheries Commission were convened to discuss outstanding substantive issues of NAFO referred from the 23rd Annual Meeting of NAFO, which was cancelled due to the tragic events in the United States of America, September 11, 2001.
2. The meetings were attended by 160 participants from fifteen Contracting Parties - Canada, Cuba, Denmark (in respect of Faroe Islands and Greenland), Estonia, European Union, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Latvia, Lithuania, Norway, Poland, Russia, Ukraine and United States of America.
3. The General Council, under the chairmanship of Mr. Enrique Oltuski (Cuba), discussed the outstanding issues of:
 - Selection of a new Executive Secretary
 - Budgetary financial matters
 - FAO International Plans of Action
 - NAFO Dispute Settlement Procedures (DSP)

The General Council resolved on procedures of the selection of a new Executive Secretary, who will start his/her term from 01 January 2003. This position will be open for applications from the nationals of NAFO Contracting Parties only and will be posted on the NAFO website www.nafo.ca. The FAO International Plans of Action will be again considered at the upcoming NAFO Annual Meeting in Spain, September 2002. The NAFO Contracting Parties will furnish their available information on this matter to the NAFO Secretariat for further circulation to all Contracting Parties, and all relevant FAO work on this subject will be taken for consideration at the Annual Meeting. The Report of the Working Group on Dispute Settlement Procedures (DSP) Working Group will be discussed at the Annual Meeting, 2002.

4. The Fisheries Commission under the chairmanship of Mr. Peter Gullestad (Norway) reviewed several outstanding issues regarding allocations and conservation and enforcement measures. There were several advanced ideas with regards to Protection of juveniles and reduced by-catch, Operation of the automated hail/VMS system, observers and satellite tracking and others.

The following new regulations were adopted for the NAFO Regulatory Area:

- TAC for Greenland halibut set at 44,000 mt for 2002;
- increased mesh size for skate fishery (280mm);
- closed period for shrimp fishery in Div. 3M of defined Area, June 01-December 31, 2002
- control and monitoring of shrimp catches in Division 3L by daily catch reports from Contracting Parties to the NAFO Secretariat

A number of new proposals for improvement of the Conservation and Enforcement Measures were transferred from this meeting for a discussion at a Special STACTIC inter-sessional meeting, which will be convened in Denmark in May 2002.

5. The following elections of NAFO officers took place:

- | | |
|--------------------------------------|--------------------------------------|
| President of the Organization and | - E. Oltuski (re-elected) (Cuba) |
| Chairman of the General Council | |
| Vice-Chairman of the General Council | - P. S. Chamut (re-elected) (Canada) |

- | | |
|--|----------------------------|
| Chairman of the Fisheries Commission | - D. Swanson (USA) |
| Vice-Chairman of the Fisheries Commission | - B. F. Prischepa (Russia) |
| Chairman of the Standing Committee on Finance and Administration (STACFAD) | - G. F. Kingston (EU) |
| Vice-Chairman of the Standing Committee on Finance and Administration (STACFAD) | - D. Warner-Kramer (USA) |
| Chairman of the Standing Committee on International Control (STACTIC) | - D. Bevan (Canada) |

NAFO General Council
February 01, 2002

NAFO Secretariat
Dartmouth, N.S., Canada

PART II

Report of the Standing Committee on Finance and Administration (STACFAD)

1. Opening by the Chairman

The first session of STACFAD was opened by Fred Kingston (EU) at 10:15 hrs on 29 January 2002.

Present were delegates from Canada, Cuba, Denmark (in respect of Faroe Islands and Greenland), European Union (EU), France (in respect of St. Pierre et Miquelon), Iceland, Japan, Latvia, Norway, Poland, Russian Federation, Ukraine and United States of America (USA) (Annex 1).

The Chairman welcomed delegates and thanked Denmark (in respect of the Faroe Islands and Greenland) for hosting this Special Meeting of NAFO in Helsingør.

2. Appointment of Rapporteur

Sofeia Horsey (Canada) and Stan Goodick (NAFO Secretariat) were appointed Rapporteurs.

3. Adoption of Agenda

Delegates were presented with and accepted a revised agenda (Annex 2), incorporating additional items for review and discussion:

- Item 6: Administrative Report and Financial Statements for 2001
- Item 13a): Review of job descriptions identified as being in the CR Category
- Item 13b): Internet access to NAFO documents.

4. Auditors' Report

The Executive Secretary presented the Auditors' Report and Financial Statements of the Northwest Atlantic Fisheries Organization for the Year Ended 31 December 2000. The Executive Secretary indicated that the Auditors' Report, signed by Deloitte & Touche, was circulated to the Heads of Delegation in May 2001 and no comments had been received on the report.

As stated in Note 4 of the Auditors' Report entitled "Provision for Employee Termination Benefits", the Committee noted the Organization's practice of funding this liability at the rate of \$10,000 per annum as approved by the General Council at the 22nd Annual Meeting in 2000.

STACFAD recommended to the General Council that the 2000 Auditors' Report be adopted.

5. Status of the spending for the implementation of the Automated Hail/VMS System

The Chairman introduced STACFAD W.P. 02/4 (Annex 3). The Executive Secretary noted that of the \$200,000 budgeted, \$196,787 had been spent to date. Consulting fees were minimal as the Contractor had established a similar system for another client.

STACFAD members queried whether STACTIC would propose additional options or adjustments (such as code changes). They also were concerned as to whether the annual support and maintenance fee, as budgeted, would be adequate or if there would be subsequent charges for this service. The Executive Secretary stated he did not foresee any programming or software changes that could increase the annual fee.

In addition, the Executive Secretary noted that the Hail/VMS System was currently underutilized by Contracting Parties in terms of its full potential, due to start-up difficulties.

STACFAD recommended that STACTIC review the situation and provide STACFAD with a report reviewing this system for consideration at the next Annual Meeting.

6. Administrative Report and Financial Statements for 2001

The Chairman introduced NAFO/GC Doc 02/1.

Concerning the Administrative Report, on item 5, Publications in the 2001 budget, delegates requested clarification regarding significant increases in printing costs. The Secretariat explained increases were a direct result of additional publication issues required.

Concerning the Financial Statements:

Statement I:

Personal Services

a) Salaries

The Secretariat explained that salaries were over budget due to economic increases as indicated in footnote c. STACFAD W.P. 02/7 was tabled (Annex 4) which provided more detail on the salary increases.

STACFAD asked the Secretariat to adopt a more detailed reporting structure, in order to provide increased transparency as well as to facilitate the review of increases and any retroactive periods applied to both Professional and General Services Categories.

c) Additional Help

STACFAD agreed to report this budget item under "Other Contractual Services".

Travel

Delegates were reminded that the travel budget for 2001 was lower because it excluded the travel of the Executive Secretary and Administrative Assistant to Varadero, Cuba for the inspection and planning of the 23rd Annual Meeting facilities.

Other Contractual Services

The Executive Secretary agreed to examine the possibility of upgrading its copier as a means to eliminate the need for additional charges in the maintenance agreements of its leasing contracts.

The Executive Secretary agreed to provide STACFAD an accounting of the computer equipment leased and owned for review in advance of the 24th Annual Meeting.

Statement III

STACFAD noted outstanding contributions from Cuba (\$19,993.05), Lithuania (\$1,000.00), Bulgaria (\$19,993.05) and Romania (\$19,993.05). As in prior years, **STACFAD recommended** to the General Council that those contributions from Bulgaria and Romania be deemed uncollectable and recommended that these amounts be applied against the Accumulated Surplus Account. Delegates expressed concern about this continued practice.

A schedule of outstanding contributions detailing the total amounts due from Bulgaria and Romania is attached (Annex 5).

As in prior years, **STACFAD also recommended** that Contracting Parties continue attempts to contact Bulgaria and Romania in order to ascertain whether they intend to participate in NAFO and to inform them of their outstanding contributions. The Committee further **recommended** that Contracting Parties exchange information about such contacts through the NAFO Secretariat.

7. Review of Accumulated Surplus Account

The accumulated surplus account was reviewed and it was noted that the year-end balance is estimated to be \$167,703, provided that all outstanding member contributions (excluding Bulgaria/Romania) were received.

As in previous years, **STACFAD recommended** that \$75,000 be maintained as a minimum balance in this account in order to fulfill NAFO's financial obligations in early 2002 until contributions are received. The remaining estimated accumulated surplus balance of \$92,703 at the end of 2001 would be used to reduce contributions due from Contracting Parties in 2002.

8. Salary Scale for the NAFO Executive Secretary

The Chairman introduced the proposal to reclassify the salary of the Executive Secretary at the UN salary scale at the D-1 level given that this basis is used in similar international fisheries organizations such as Northeast Atlantic Fisheries Commission (NEAFC), International Commission for the Conservation of Atlantic Tunas (ICCAT) and Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR). (STACFAD W.P. 02/9 – Salary Scale of the Executive Secretary). The Chairman noted the proposal was opportune in view of the selection process for a new Executive Secretary in 2002 and the desire to attract top-qualified international candidates for this position.

The Executive Secretary outlined the background to this proposal, providing information on the current salary scale for the position (STACFAD W.P. 02/9). Information was also provided on the D-1 level of the UN salary scale (CDN\$176,137-CDN\$206,282) which allowed an evaluation of the impact of the proposal. The difference between the highest amount of the current salary scale (EX-2) and the highest amount of the D-1 level is approximately CDN\$100,000.

Delegates discussed the various implications of this proposal, not only in regards to the budget and the contributions of Contracting Parties, but also broader implications of similar requests from the Assistant Executive Secretary and the Secretariat staff.

The delegate of Canada noted that all Canadian-based fisheries organizations align their salaries with those of the Canadian Public Service salary scale. Similarly, it was noted that the salaries of US-based fisheries organizations were consistent with the US civil service pay scale. In this way,

the salary scales were appropriate to the cost of living and conditions in Canada and the US respectively.

Given the relatively low cost of living in the Halifax-Dartmouth area, the delegate of Canada noted that the current salary scale was probably equivalent to the D-1 level for the NEAFC Executive Secretary in London, UK. Reference was made to the International Salary Calculator which provides a comparison salary between cities, for example, if one made \$100,000 in Halifax, then one would need \$196,893 in London, UK.

The delegate from the EU noted that the current salary for the NAFO Executive Secretary is dramatically lower than in many other regional fisheries management organizations. This salary level will hardly attract highly qualified candidates internationally from all Contracting Parties which will be essential in the upcoming selection process. Furthermore, he noted that the UN salary system takes the cost of living into account. He thought the view that the current salary was equivalent to the D-1 level in London was therefore not correct. In this context, he referred to the so-called "post adjustment mechanism" and the cost of living index in the salary scale in STACFAD W.P. 02/1. In addition, Executive Secretaries in other regional fisheries management organizations using the UN system (e.g. ICCAT, CCAMLR, and NEAFC) were also receiving allowances and benefits according to the UN system. This would not be the case in NAFO. Therefore, the Executive Secretary's proposal seemed reasonable. He inquired as to whether the same salary could be obtained within the Canadian salary system and whether flexibility existed in the Canadian salary system.

The delegate of Canada noted that there was an assumption that all Executive-Secretary/Director positions were the same. This was not the case as some had a large component of policy analysis while others like NAFO were more operational or administrative in nature. In response to the EU's question regarding flexibility, he advised that the EX category employs an annual performance bonus contingent upon an evaluation of achieving the set objectives. The delegate of Canada noted that an objective evaluation of the position was necessary before reclassifying it either under the Canadian EX category or under the UN.

The Chairman noted the wide gap in views on the salary issue which appeared irreconcilable at the moment. Given the lack of information, it was proposed to defer the issue to the 2002 Annual Meeting. **STACFAD agreed and recommended** to the General Council that the issue of the salary scale for the NAFO Executive Secretary be deferred to the 2002 Annual Meeting.

STACFAD requested the Secretariat to provide information to Contracting Parties, 60 days before the 2002 Annual Meeting, in order to permit an informed discussion, including the following:

- A description of the Executive Secretary's current position, as per Government of Canada guidelines, for classification by Department of Fisheries and Oceans. Following receipt of this description, Canada agreed to provide a response to the Secretariat before this 60-day time period;
- A description of the Executive Secretary's current position description, as per UN guidelines, for classification by the United Nations. The Secretariat should pursue this with the UN;
- A survey of the salaries and position descriptions of Executive Secretaries/Directors of other regional fisheries organizations. It is proposed that Contracting Parties provide any available information in this regard to the Secretariat;
- An explanation of the different position classifications in the UN system for Professional and higher categories (P-4, P-5, D-1, D-2); and

- Information regarding the Executive Secretary's classification during the transition from the International Commission for the Northwest Atlantic Fisheries (ICNAF) to NAFO.

An additional issue for consideration is the retroactivity of any salary increase to the incumbent Executive Secretary to 1 January 2001.

9. Budget Estimate for 2002

GC Working Paper 01/2 (Revised) was tabled. The Executive Secretary noted all items were standard with the exception of a request for funding by Scientific Council as highlighted in notes below.

STACFAD noted the following:

1c) Additional Help

STACFAD agreed this item would be relocated under the heading "Other Contractual Services".

1a) Salaries

STACFAD W.P. 02/11 was tabled, providing a breakdown of salaries for Secretariat staff. STACFAD approved this budget forecast.

4. Communications and 5. Publications

STACFAD members engaged in a thorough debate on the need to modernize its approach and the process of communicating documents and information to its membership and interested parties through the use of electronic media (e-mail and website). It agreed this could not be realized overnight but emphasized action would need to be taken immediately. It discussed phasing in changes over the next 2 years. Committee members recognized the need to maintain some level of printed documents to meet the needs of Contracting Parties and other users such as libraries. It agreed there was also a need to ensure confidentiality for sensitive or restricted material through the use of password protection.

On this basis, **STACFAD recommended** to General Council that:

- The amounts budgeted for 2002 for "Communications" and "Publications" be \$60,000 and \$30,000 respectively;
- the Secretariat accelerate the transition currently underway from print to electronic communications with a view to reducing the postal and printing costs associated with the "Communications" and "Publications" budget, while recognizing the need in certain circumstances for printed documents;
- the Secretariat develop, in consultation with Contracting Parties, a comprehensive overview of current printed material according to category and an identification of the optimal mode of transmission to Contracting Parties and the interested public. This should include the following:
 - electronic communication
 - web-site: both public and password protected
 - CD-ROM
 - continuation of print
- the Secretariat identify the costs associated involved in this transition towards enhanced

- electronic communications, including the possible use of consultants, and this overview be submitted to Contracting Parties for evaluation within two months, for discussion at the next Annual Meeting.

6. Other Contractual Services

As discussed previously, item 1c) "Additional Help" would be reported as a separate line under the general heading of "Other Contractual Services".

9. Meetings

STACFAD W.P. 02/5 was tabled, requesting the approval of funds for the Scientific Council in the amount of \$8,000. The purpose of this money was to cover expenses for invited convenors, keynote speakers and incidental technical needs for a Symposium on "Elasmobranch Fisheries".

STACFAD approved this request as a budget item with the proviso, as suggested by the delegate from the Russian Federation, that the Scientific Council provide the Committee with a full accounting of expenses subsequent to the Symposium.

Regarding the funding of Symposia in general, the Committee was concerned that proper procedures be put in place to ensure that 1) funding could be recovered in the event that a Symposium was cancelled, after payment was made and that 2) an accounting be submitted by the recipient. The Committee reiterated its request to NAFO Secretariat to develop such procedures and report back to STACFAD at the next Annual Meeting.

The Committee requested that any future requests for funding be supported by adequate documentation for STACFAD to make an informed decision.

10. Computer Services

Delegates requested that the Executive Secretary provide them with an inventory and status report of its current capital holdings and computer equipment for its review at the next Annual Meeting.

The Executive Secretary advised that the current computer equipment of the Headquarters was adequate and up-to-date to meet the Organization's current and short-term needs (2-3 years) with minor upgrades in software and memory within the budgeted amounts.

13. Recruitment and Relocation

The Secretariat tabled STACFAD W.P. 02/16 (Revised) outlining the financial implications for the Recruitment and Relocation Expenses of the Executive Secretary. STACFAD approved an amount of \$73,000 for this purpose on a separate budget line.

The preliminary calculation of the 2002 billing is \$1,276,297 (Annex 7).

STACFAD recommended to the General Council that the budget of \$1,369,000 for the year 2002 be adopted (Annex 6).

10. Budget Forecast for 2003

STACFAD reviewed the preliminary budget forecast for 2003 of \$1,231,000 (Annex 8) and approved the forecast in principle. It was noted that the preliminary budget forecast for 2003 would be reviewed in detail during the 24th Annual Meeting.

Regarding the Automated Hail System, Committee members agreed that, although there were no planned charges forecasted at this time, the line item remain with a zero amount allocated, given it may be necessary to include possible software changes proposed by STACTIC at a later date.

11. Formulation of selection criteria, procedures and timetable for an Administrative Committee on the recruitment of a new Executive Secretary

The Executive Secretary introduced W.P. 02/2 and W.P. 02/3. Proposals were also tabled by Canada (W.P. 02/8) and the EU (W.P. 02/10) respectively. The EU explained that its proposal was modelled from the process followed recently in CCAMLR.

STACFAD considered these matters in detail and **recommended** that the General Council:

1. adopt the procedure, timetable and selection criteria outlined in Annex 9 for the recruitment of a new Executive Secretary;
2. approve the text of a vacancy announcement as contained in Annex 10, and
3. approve the text of an additional summary description of the position of Executive Secretary to be placed on a new recruitment section of NAFO's web site, as contained in Annex 11.

12. Time and Place of 2003, 2004 Annual Meetings

The location of the 2003 Annual Meeting will be held in Halifax, unless an invitation to host is extended by a Contracting Party and accepted by the Organization.

The dates of the 2003 Annual Meeting are as follows:

| | | |
|----------------------|---|-----------------|
| Scientific Council | - | 10-19 September |
| General Council | - | 15-19 September |
| Fisheries Commission | - | 15-19 September |

STACFAD recommended that the dates of the 2004 Annual Meeting be as follows with the location to be Halifax, unless an invitation to host is extended by a Contracting Party and accepted by the Organization:

| | | |
|----------------------|---|-----------------|
| Scientific Council | - | 8-17 September |
| General Council | - | 13-17 September |
| Fisheries Commission | - | 13-17 September |

13. Other Issues including any questions referred from the General Council during the current Special Meeting

- a) Review of job descriptions identified as being in the CR Category

The Chairman reviewed the background to this issue which was related to the possible application of pay equity adjustments to employees to the CR category to reflect the

Government of Canada's decision to award pay equity to employees in selected job categories. He noted that at the 2000 Annual Meeting Canada had agreed to undertake a review of the work descriptions of the seven NAFO employees in the CR category and report its findings in advance of the 2001 Annual Meeting.

The delegate of Canada advised that Department of Fisheries and Oceans classification experts were unable to provide an assessment since insufficient detail was provided in terms of the current Universal Classification Standard (UCS).

STACFAD recommended that the Secretariat prepare the required job descriptions to the UCS requirements and, if necessary, engage a Human Resources Consultant to provide assistance. Canada offered to provide any assistance or guidance possible in this endeavour. It was agreed that this issue should be treated as a priority and addressed at the 2002 Annual Meeting.

b) Internet access to NAFO documents

Delegates considered that the discussion and recommendations concerning the "Communications" and "Publications" budget lines for the 2002 budget were sufficient to cover this item.

14. Election of Chairman and Vice-Chairman

STACFAD re-elected Fred Kingston, of the European Union, for the position of Chairman and Deirdre Warner-Kramer, United States of America, for the position of Vice-Chairman.

15. Adjournment

The final session of the STACFAD meeting adjourned on 1 February 2002 at 0940 hrs.

Annex 1. List of Participants

| Name | Contracting Party |
|---------------------------------|--------------------------|
| Sofeia Horsey | Canada |
| Bob Steinbock | Canada |
| Rafael Matos | Cuba |
| Einar Lemche (F&G) | Denmark |
| Staffan Ekwall Union | European |
| Fred Kingston Union | European |
| Manfred Stein Union | European |
| Didier Ortolland | France (SPM) |
| Thorir Skarphedinsson | Iceland |
| Kenro Iino | Japan |
| Keiko Suzuki | Japan |
| Ricards Derkacs | Latvia |
| Ellen Viken | Norway |
| Jan Gozdzikowski | Poland |
| Bogoslaw Szemioth | Poland |
| Victor Solodovnik Federation | Russian |
| Vasyl Chernik | Ukraine |
| Patrick Moran | USA |
| Fred Serchuk | USA |
| Leonard Chepel Secretariat | NAFO |
| Stan Goodick Secretariat | NAFO |
| Forbes Keating Secretariat | NAFO |

Annex 2. Agenda

1. Opening by the Chairman, G. F. Kingston (EU)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Auditor's Report, 2000
5. Status of the spending for the implementation of the Automated Hail/VMS System
6. Administrative Report and Financial Statements for 2001
7. Review of Accumulated Surplus Account
8. Salary scale for the NAFO Executive Secretary
9. Budget Estimate for 2002
10. Budget Forecast for 2003
11. Formulation of selection criteria, procedures and timetable for an Administrative Committee on the recruitment of a new Executive Secretary (2002)
12. Time and Place of 2003-2004 Annual Meetings
13. Other issues including any questions referred from the General Council during the current Special Meeting
 - a) Review of job descriptions identified as being in the CR Category
 - b) Internet access to NAFO documents
14. Election of Chairman and Vice-Chairman
15. Adjournment

**Annex 3. Status of spending for the implementation of the Automated
Hail/VMS System
(STACFAD W.P. 02/4)**

Installation and Setup:

| | |
|--|------------------|
| Contract – Trackwell Software | |
| Design, software, hardware, installation and training of Vessel Monitoring System (VMS). | \$172,136 |
| Consultants fees – Sigmund Engesaeter | |
| Evaluation of bids | \$2,056 |
| Travel to NAFO Secretariat 21-22 February 2001 | \$2,340 |
| Travel to Halifax, STACTIC Meeting, 26-28 June 2001 | \$4,423 |
| Personal computers, equipment and supplies – Can-Net Computer Group | |
| Three PC's, software, network cabling and installation | \$9,802 |
| Uninterrupted Power Supply | \$1,178 |
| Hewlett Packard back up tapes | \$975 |
| Server room upgrade – Homburg Canada Inc | |
| Extend walls in VMS server room. | \$1,842 |
| Legal Fees – Daily Black | |
| Review of contract | \$1,500 |
| Installation of X.25 line – MTT | \$500 |
| | \$196,787 |

Annual Recurring Fees (Computer Services):

| | |
|---|-----------------|
| Trackwell Software - Annual support and maintenance | \$18,300 |
| MTT - X.25 line | \$12,756 |
| X.400 line | \$720 |
| | \$31,576 |

Annex 4. Salaries for the 2001 Fiscal Year
(STACFAD W.P. 02/7)

In accordance with Rule 6.1 of the Financial Regulations, NAFO follows the salary scale and position classification system of the Public Service of Canada. Any salary increases (change) would be negotiated and included in the contracts between the Public Service Alliance of Canada and the Treasury Board of Canada, for the Program and Administrative Group (Table 1) and Technical Services Group (Table 3).

The NAFO employee's are classified as administrative and technical services employees, equivalent to those in the Public Service of Canada, and the Executive Secretary at Executive Group.

As no contracts were in place at the time when NAFO was setting its salaries budget for the 2001 fiscal year, an estimated 2% economic increase was used, equivalent to the increase given in the prior contract and the salaries budget for 2001 fiscal year was set at \$699,500 Cdn.

Actual Salaries of the Secretariat

Staff Members

In November 2001, new three year contracts were ratified for the Program and Administrative and Technical Services Groups, expiring in June 2003. Economic increases included in the new contracts were as follows:

- 3.2% effective June 2000.
- 2.8% effective June 2001.
- 2.5% effective June 2002.

Higher than budgeted salary increases resulted in administrative salaries being over budget by approximately \$18,000.

Executive Group

The salaries budget for the Executive Group (the Executive Secretary) also included a 2% economic increase. The actual salary increase was 8.0% effective April 2000, resulting in this category being over budget by approximately \$9,000.

The financial implication of the above-noted contracts on the NAFO budget was the increase of actual salaries for the year over budget by \$26,906.

Annex 5. Schedule of Outstanding Contributions from Bulgaria and Romania

The following is a summary of outstanding contributions from Bulgaria and Romania:

| | <u>Bulgaria</u> | <u>Romania</u> |
|------------------------------|-----------------|----------------|
| 1 January – 31 December 1982 | | \$2,700.75 |
| 1 January – 31 December 1983 | | 11,000.00 |
| 1 January – 31 December 1984 | | 11,483.06 |
| 1 January – 31 December 1985 | | 12,688.81 |
| 1 January – 31 December 1986 | | 11,784.09 |
| 1 January – 31 December 1987 | | 15,273.97 |
| 1 January – 31 December 1988 | | 14,189.50 |
| 1 January – 31 December 1989 | | 16,618.05 |
| 1 January – 31 December 1990 | | 17,875.65 |
| 1 January – 31 December 1991 | | 20,060.56 |
| 1 January – 31 December 1992 | | 18,702.14 |
| 1 January – 31 December 1993 | 18,109.12 | 17,473.10 |
| 1 January – 31 December 1994 | 14,893.10 | 14,893.10 |
| 1 January – 31 December 1995 | 16,614.28 | 16,614.28 |
| 1 January – 31 December 1996 | 15,944.93 | 15,944.93 |
| 1 January – 31 December 1997 | 15,002.75 | 15,002.76 |
| 1 January – 31 December 1998 | 16,121.90 | 16,121.89 |
| 1 January – 31 December 1999 | 16,267.88 | 16,267.87 |
| 1 January – 31 December 2000 | 16,842.79 | 16,842.79 |
| 1 January – 31 December 2001 | 19,993.05 | 19,993.05 |
| | \$149,789.80 | \$301,530.35 |

Annex 6. Budget Estimate for 2002
(Canadian Dollars)

NORTHWEST ATLANTIC FISHERIES ORGANIZATION

| | Approved Budget for 2001 | Projected Expenditures for 2001 | Preliminary Budget Forecast for 2002 | Budget Estimate for 2002 |
|---|--------------------------------|---------------------------------------|---|--------------------------------|
| 1. Personal Services | | | | |
| a) Salaries | \$ 699,500 | \$ 726,406 | \$707,000 | \$735,000 ^a |
| b) Superannuation and Annuities | 76,000 | 74,461 | 80,000 | 81,000 |
| c) Group Medical and Insurance Plans | 57,500 | 59,399 | 59,000 | 69,000 |
| d) Termination Benefits | 23,000 | 38,384 | 20,000 | 22,000 ^b |
| e) Accrued Vacation Pay | 1,000 | 5,939 | 1,000 | 1,000 |
| f) Termination Benefits Liability | 10,000 | 10,000 | 10,000 | 10,000 |
| 2. Travel | 19,000 | 24,584 | 20,000 | 26,000 ^c |
| 3. Transportation | 1,000 | 788 | 1,000 | 1,000 |
| 4. Communications | 60,000 | 59,765 | 60,000 | 60,000 |
| 5. Publications | 37,000 | 38,062 | 29,000 | 30,000 |
| 6. Other Contractual Services | 44,000 | 44,082 | 45,000 | 48,000 |
| 7. Additional Help | 1,000 | - | 1,000 | 1,000 |
| 8. Materials and Supplies | 30,000 | 28,133 | 30,000 | 30,000 |
| 9. Equipment | 5,000 | 4,533 | 5,000 | 5,000 |
| 10. Meetings | | | | |
| Annual General Meeting and Scientific Council Meetings | 64,000 | 47,290 | 65,000 | 66,000 ^d |
| Inter-sessional Meetings | 30,000 | 46,761 | 30,000 | 55,000 ^e |
| Symposium | 16,000 | 12,169 | - | 8,000 ^f |
| 11. Computer Services | 15,000 | 34,234 | 15,000 | 48,000 ^g |
| 12. Automated Hail System | 200,000 | 196,787 | 12,000 | - |
| 13. Recruitment and Relocation | - | - | - | 73,000 ^h |
| | \$1,389,000 | \$1,451,777 | \$1,190,000 | \$1,369,000 |

^a NAFO's salaries budget estimate for 2002 includes a 2.5% economic increase.

^b This figure is for 2002 credits and conforms with NAFO Staff Rule 10.4(a).

^c Travel costs for 2002 include: (i) the Assistant Executive Secretary to the 2002 Co-ordinating Working Party (CWP) on Fishery Statistics of the Food and Agriculture Organization (FAO) of the United Nations, March 2002, Rome Italy; (ii) two staff members to the annual meeting of Directors and Executive Secretaries of the International Fisheries Commissions Pension Society (IFCPS), April 2002, Chicago, Illinois, USA; (iii) the Executive Secretary and Administrative Assistant to Spain for inspection and planning of the 24th Annual Meeting facilities, Spring 2002; (iv) the Executive Secretary's home leave.

^d This figure includes the cost for the 24th Annual Meeting, September 2002, Spain, the Scientific Council Meeting, June 2002, Halifax, Canada and the Scientific Council Shrimp Meeting, November 2002, Nuuk, Greenland.

^e General provisions for inter-sessional meetings during 2002 and Special Meetings, January 2002 Helsingør.

^f NAFO Symposium on Elasmobranch Fisheries, September 2002, Spain.

^g Includes annual support and maintenance of automated hail system and communication charges for X.25 and X.400 lines.

^h Recruitment and relocation costs associated with the incoming and outgoing Executive Secretaries.

Annex 7. Preliminary Calculation for 2002

NORTHWEST ATLANTIC FISHERIES ORGANIZATION

Preliminary calculation of billing for Contracting Parties
against the proposed estimate of \$1,369,000 for the 2002
financial year (based on 18 Contracting Parties to NAFO)
(Canadian Dollars)

| | |
|--|-----------------------|
| Budget Estimate..... | \$1,369,000.00 |
| Deduct: Amount from Accumulated Surplus Account..... | <u>92,703.00</u> |
| Funds required to meet 2000 Administrative Budget..... | <u>\$1,276,297.00</u> |

60% of funds required = \$765,778.14

30% of funds required = 382,889.16

10% of funds required = 127,629.70

| Contracting Parties | Nominal Catches for 1999 | % of Total Catch in the Convention Area | 10% | 30% | 60% | Amount Billed |
|--|--------------------------------|--|--------------|--------------|--------------|-----------------------|
| Bulgaria | - | - | - | \$21,271.62 | - | \$ 21,271.62 |
| Canada | 496,548 | 57.57 | \$80,382.59 | 21,271.62 | \$440,858.48 | 542,512.69 |
| Cuba | 122 | 0.01 | - | 21,271.62 | 76.58 | 21,348.20 |
| Denmark (Faroes & Greenland) ² | 120,461 | 13.96 | 19,500.56 | 21,271.62 | 106,902.64 | 147,674.82 |
| Estonia | 10,835 | 1.26 | - | 21,271.62 | 9,648.81 | 30,920.43 |
| European Union | 33,686 | 3.91 | - | 21,271.62 | 29,941.93 | 51,213.55 |
| France (St. Pierre et Miquelon) | 4,880 | 0.57 | 789.99 | 21,271.62 | 4,364.94 | 26,426.55 |
| Iceland | 9,148 | 1.06 | - | 21,271.62 | 8,117.25 | 29,388.87 |
| Japan | 2,944 | 0.34 | - | 21,271.62 | 2,603.65 | 23,875.27 |
| Republic of Korea | - | - | - | 21,271.62 | - | 21,271.62 |
| Latvia | 3,080 | 0.36 | - | 21,271.62 | 2,756.80 | 24,028.42 |
| Lithuania | 3,370 | 0.39 | - | 21,271.62 | 2,986.53 | 24,258.15 |
| Norway | 4,340 | 0.50 | - | 21,271.62 | 3,828.89 | 25,100.51 |
| Poland | 894 | 0.10 | - | 21,271.62 | 765.78 | 22,037.40 |
| Romania | - | - | - | 21,271.62 | - | 21,271.62 |
| Russian Federation | 5,756 | 0.67 | - | 21,271.62 | 5,130.71 | 26,402.33 |
| Ukraine | - | - | - | 21,271.62 | - | 21,271.62 |
| United States of America ¹ | 166,519 | 19.30 | 26,956.56 | 21,271.62 | 147,795.15 | 196,023.33 |
| | 862,583 | 100.00 | \$127,629.70 | \$382,889.16 | \$765,778.14 | <u>\$1,276,297.00</u> |

Funds required to meet 1 January - 31 December 2002 Administrative Budget \$1,267,297.00

¹ Provisional Statistics used when calculating 1999 nominal catches which have not been reported from some Contracting Parties.

² Faroe Islands = 10,557 metric tons
Greenland = 109,904 metric tons

Annex 8. Preliminary Budget Forecast for 2003
(Canadian Dollars)

NORTHWEST ATLANTIC FISHERIES ORGANIZATION

| | | |
|-----|---|---------------------|
| 1. | Personal Services | |
| | a) Salaries | \$ 748,000 |
| | b) Superannuation and Annuities | 80,000 |
| | c) Group Medical and Insurance Plans | 71,000 |
| | d) Termination Benefits | 20,000 ^a |
| | e) Accrued Vacation Pay | 1,000 |
| | f) Termination Benefits Liability | 10,000 |
| 2. | Travel | 4,000 ^b |
| 3. | Transportation | 1,000 |
| 4. | Communications | 41,000 |
| 5. | Publications | 30,000 |
| 6. | Other Contractual Services | 45,000 |
| 7. | Additional Help | 1,000 |
| 8. | Materials and Supplies | 30,000 |
| 9. | Equipment | 5,000 |
| 10. | Meetings | |
| | Annual General Meeting and Scientific Council Meetings | 66,000 ^c |
| | Inter-sessional Meetings | 30,000 |
| 11. | Computer Services | 48,000 ^d |
| 12. | Automated Hail System | - |
| | | \$1,231,000 |

^a This figure is for 2003 credits and conforms with NAFO Staff Rule 10.4(a).

^b Travel costs for 2003 is for the Assistant Executive Secretary's attendance at a Co-ordinating Working Party (CWP) on Fishery Statistics of the Food and Agriculture Organization (FAO) of the United Nations.

^c This figure includes the cost for the 25th Annual Meeting, September 2003, the Scientific Council Meeting, June 2003, in Halifax, Canada and for the Scientific Council Shrimp Meeting, November 2003.

^d Includes annual support and maintenance of automated hail system and communication charges for X.25 and X.400 lines.

Annex 9. Procedure, timetable, and selection criteria for the recruitment of a new Executive Secretary

Procedure for the recruitment of a new Executive Secretary

Advertisement

- Contracting Parties shall agree on the text of a Vacancy Announcement for the post of Executive Secretary. The Vacancy Announcement shall be placed on a recruitment page on the NAFO website together with relevant supplementary information.
- The Executive Secretary shall also place the announcement in relevant international publications and websites. Websites should be used as a preference. Contracting Parties may place the announcement in national publications and websites they consider appropriate.

Availability of applications

Each application shall be posted on a password protected section of the NAFO website to be assessed by the Heads of Delegation of the General Council. Passwords will only be provided to the Chairman of the General Council, the Heads of Delegations and the Chairman of STACFAD.

Ranking of Applicants

Each Head of Delegation shall notify the NAFO Secretariat its 10 preferred candidates in order of preference out of all the applications received. Each preference list is to be considered confidential and is not to be disclosed. Upon receipt of all preference lists, the Chair of STACFAD shall, together with the incumbent Executive Secretary, aggregate individual applicants' rankings, applying the awarding of 10 points for the first preference, 9 points for the second preference, etc.

Short list

The candidates with the four highest aggregate scores will be shortlisted for interview. Should the application of one such candidate be withdrawn, the next ranking candidate shall then be shortlisted.

Interview process

The shortlisted candidates will be notified to all Contracting Parties by the Executive Secretary and will be invited to the Annual Meeting for interviews. Some degree of standardization should be built into the interview process to ensure fairness. The interviews and the selection of the new Executive Secretary shall take place during Head of Delegation meetings of the General Council.

Travel (economy class) and per diem expenses of candidates invited for the interviews shall be reimbursed by NAFO unless the candidate is already part of a Contracting Party delegation. Contracting Parties are strongly urged to assume these costs.

Recruitment timetable

| | |
|---|--|
| Advertisement of the position by NAFO | February 2002 |
| Delivery of applications to the NAFO Secretariat | Deadline 15 May 2002 |
| Applications posted on a password protected page of the NAFO homepage | Within 7 working days from 15 May 2002 |
| Notification of preference list by Heads of Delegation of Contracting Parties | Before 30 June 2002 |
| Notification of shortlist by Executive Secretary | Before 15 July 2002 |
| Interviews and selection | 2002 Annual Meeting |

Annex 10. Vacancy Announcement

For the position of Executive Secretary in the Northwest Atlantic Fisheries Organization (NAFO)

The Northwest Atlantic Fisheries Organization (NAFO) invites applications for the position of Executive Secretary. The appointment will be for a term of four years with the possibility of an additional four-year appointment.

NAFO is an international organization with Headquarters in Dartmouth, Nova Scotia, Canada. It is responsible for giving effect to the objectives and principles of the Convention on Future Multilateral Co-operation in the Northwest Atlantic Fisheries (NAFO Convention), which is to promote the optimum utilization, rational management and conservation of the fishery resources of the Northwest Atlantic area.

The tasks of the Executive Secretary are, in particular, to manage the NAFO Secretariat with its 11 staff members, to make the necessary arrangements for NAFO meetings, to submit annual budget estimates and financial statements and to manage the annual budget.

Applicants must be citizens/nationals of a Contracting Party of NAFO.

Selection Criteria

- Experience or detailed knowledge of the operations of international, regional and/or intergovernmental organizations.
- Demonstration of a high level of proven competence in areas such as:
 - Management experience of administrative and technical staff;
 - Preparation of reports, financial budgets and management of expenditures;
 - Organization and the provision of secretariat support for international meetings;
 - Oversight and management of computer services and information technology.
- Familiarity with Atlantic fisheries management affairs.
- Good working knowledge of English: other language skills would be desirable.
- Preferably with university qualification or the equivalent.

Salary and Allowances

The annual salary is presently in the range of CDN \$89,900 to CDN \$105,800 (currently under review), depending upon experience.

Allowances include removal costs, annual leave with pay, home leave allowance every two years, sick leave credits and air travel in business class for travel outside Canada.

Availability

The candidate chosen for the post must be available starting 9 December 2002 for a period of transition with the incumbent Executive Secretary and will assume the post on 1 January 2003.

Applications

Applications shall be in English, should be marked "Personal and Confidential" and must be sent no later than 15 May 2002 (postal stamp is decisive) to the following address:

The Executive Secretary
Northwest Atlantic Fisheries Organization
P.O. Box 638
Dartmouth, Nova Scotia
Canada B2Y 3Y9

Applications may also be sent in electronic form to the following address: recruit@nafo.ca

Applications should include the following:

- Curriculum Vitae
- List of publications, if available
- Certificate of physical health; and
- Three references from persons with a recent knowledge of the applicant's character, qualifications and experience.

Additional Information

Please consult the NAFO website at www.nafo.ca for complete information on NAFO duties and the application process.

Annex 11. Summary Description of the Position

The Executive Secretary is NAFO's chief administrative officer and must be impartial and objective in promoting and coordinating the interests of all Contracting Parties. The Executive Secretary is responsible for the effective management of NAFO's Secretariat and administration of NAFO's appropriations and budget (currently at the level of CDN \$1.3 million). The Executive Secretary is appointed by and subject to the general supervision of the General Council. He/she is responsible for delivering a professional level of service to the Contracting Parties on behalf of NAFO. He/she appoints and exercises full authority over the staff of the Secretariat and performs such other functions as described in the NAFO Convention, the Rules of Procedure of General Council, Fisheries Commission and Scientific Council, the NAFO Staff Rules, and as the General Council may prescribe from time to time. The Executive Secretary's functions include in particular the following:

- Undertakes all necessary arrangements for annual and other meetings of NAFO and its constituent bodies and committees, including the preparation and transmission of draft provisional agendas and provisional agendas for the respective bodies and committees in consultation with their respective Chairs;
- Manages and controls the Secretariat's expenses and appropriations according to the Financial Regulations and decisions of NAFO;
- Prepares annual budget estimates and forecasts, annual financial statements, and other documents as required by NAFO;
- Conducts on behalf of NAFO correspondence on routine and miscellaneous matters involving questions of fact, on questions of policy previously determined by NAFO, and on future programs which have been formally adopted by NAFO;
- Addresses communications to the Depository Government, Canada;
- Appoints and manages the Secretariat's staff;
- Records the proceedings, resolutions, proposals, decisions and recommendations adopted by all meetings as required; maintains the official files of NAFO and keeps the records of all meetings of NAFO and its constituent bodies and committees;
- Oversees the preparation, publication and distribution of an annual report of NAFO and any other such publications as may be required by NAFO;
- Exercises leadership and innovation in the application of computer services and information technology;
- Liaises with governments and international fisheries organizations;
- Represents NAFO at meetings of other international organizations, as required;
- Assists officers of NAFO generally in the performance of their duties when requested; and
- Performs such other functions as may be assigned to him/her by the General Council or the President.

Members of the Secretariat shall enjoy the privileges and immunities to which they are deemed to be entitled as a consequence of the NAFO Convention and pursuant to the Northwest Atlantic Fisheries Organization Privileges and Immunities Order (Order-in-Council P.C. 1980-132, 11 January 1980), or under any agreement signed between the Organization and the Contracting Party concerned.

The NAFO Staff Rules (available upon request) set the conditions and principles of employment and the responsibilities of the staff of the NAFO Secretariat.

NAFO is committed to promoting diversity and ensuring employment equity in the Secretariat staff.

It is expected that the final candidates will be interviewed at the 24th Annual Meeting of NAFO to be held in Spain during September 16-20, 2002. Expenses for finalists who would not otherwise be at the Annual Meeting will be paid by NAFO.

The expected starting date for the Executive Secretary will be December 9, 2002, to allow some overlap with the current Executive Secretary to ensure a smooth transition.

Additional Information

For additional information or clarification, please address your enquiries to Dr. Leonard Chepel, Executive Secretary, Northwest Atlantic Fisheries Organization, P. O. Box 638, Dartmouth, Nova Scotia, Canada, B2Y 3Y9. Phone: (902) 468-5590; FAX: (902) 468-5538; e-mail: info@nafo.ca.

SECTION II

(pages 61 to 102)

Report of the Special Meeting of the Fisheries Commission and its Subsidiary Body (STACTIC) 29 January – 01 February, 2002 Helsingør, Denmark

| | | |
|----------|--|----|
| Part I. | Report of the Special Meeting of the Fisheries Commission..... | 63 |
| | 1. Opening Procedures..... | 63 |
| | 2. Report of STACTIC June 2001 Meeting..... | 63 |
| | 3. Possible Amendments to the Conservation and Enforcement Measures..... | 65 |
| | 4. Report of STACTIC at the Special Meeting..... | 68 |
| | 5. Canadian Management Measures for Cod in Div. 2J3KL in 2001 ... | 69 |
| | 6. Summary of Scientific Advice by the Scientific Council..... | 69 |
| | 7. Management and Technical Measures for Fish Stocks in the Regulatory Area, 2002 – Shrimp in Division 3M..... | 70 |
| | 8. Management and Technical Measures for Fish Stocks Straddling National Fishing Limits, 2002..... | 71 |
| | 9. Formulation of Request to the Scientific Council..... | 72 |
| | 10. Election of Chairman and Vice-Chairman..... | 73 |
| | 11. Time and Place of the Next Meeting..... | 73 |
| | 12. Other Business..... | 73 |
| | 13. Adjournment..... | 74 |
| | Annex 1. List of Participants..... | 75 |
| | Annex 2. Agenda..... | 85 |
| | Annex 3. Increased Mesh Size..... | 86 |
| | Annex 4. NAFO Ad hoc Group on NAFO Management of Oceanic Redfish – Terms of Reference..... | 87 |
| | Annex 5. Fisheries Commission's Request for Scientific Advice on Management in 2003 of Certain Stocks in Subareas 3 and 4..... | 88 |
| | Annex 6. Fisheries Commission/Scientific Council Precautionary Approach Meeting..... | 92 |
| Part II. | Report of the Special Meeting of the Standing Committee on International Control (STACTIC)..... | 93 |
| | 1. Opening of the Meeting..... | 93 |
| | 2. Appointment of Rapporteur..... | 93 |
| | 3. Adoption of Agenda..... | 93 |
| | 4. Discussion of the Conservation and Enforcement Measures as the follow-up of STACTIC June 2001 Meeting..... | 93 |
| | 5. Discussion of Possible Amendments to the Conservation and Enforcement Measures..... | 97 |
| | 6. Review of Operation of the Automated Hail/VMS System..... | 97 |
| | 7. Election of Chairman..... | 98 |
| | 8. Time and Place of the Next Meeting..... | 98 |

| | |
|---|-----|
| 9. Other Matters..... | 98 |
| 10. Adoption of the Report..... | 98 |
| 11. Adjournment..... | 98 |
| Annex 1. Agenda..... | 99 |
| Annex 2. Status report of NAFO automated Hail/VMS activities up to December 31, 2001 | 100 |
| Annex 3. Elements of STACTIC W.P. 01/9 that have been agreed upon by STACTIC..... | 101 |
| Annex 4. Intersessional Meetings, STACTIC and STACTIC Working Groups, 2002 | 102 |

Report of the Special Meeting of the Fisheries Commission

(FC Doc. 02/8)

29 January - 01 February 2002

Helsingør, Denmark

The Meeting was held in accordance with the decision taken by the Fisheries Commission through mail consultation (GF/01-737 dated Oct. 22/01).

1. Opening Procedures (items 1-3 of the Agenda)

- 1.1 The meeting was called to order by the Chairman, Mr. Peter Gullestad (Norway), at 1600 hrs on January 29, 2002. Representatives from the following Contracting Parties were present: Canada, Cuba, Denmark (in respect of Faroe Islands and Greenland), Estonia, European Union (EU), France (in respect of St. Pierre et Miquelon), Iceland, Japan, Latvia, Lithuania, Norway, Poland, Russian Federation, Ukraine, and United States of America (Annex 1).
- 1.2 Mr. Allan Maclean (Canada) was appointed Rapporteur.
- 1.3 The provisional agenda was reviewed and adopted (Annex 2). The following comments were noted:
 - Items 9.1 and 10.1 – “Reports of the Fisheries Commission Working Group on Statistics and the Special Fisheries Commission Meeting” at the request of the United States of America
 - Item 10.3 – “Working Group Report on Oceanic Redfish” at the request of the United States of America
 - Other Business - “Discussion on the Precautionary Approach and Continuation of Discussion on Allocation Issues” - at the request of the United States of America
- 1.4 A number of Contracting Parties expressed concern that given NAFO's decision to roll over the management measures for 2002, they had not prepared for issues other than those identified in the provisional agenda and they were also concerned about being able to implement new management measures in 2002.

2. Report of STACTIC June 2001 Meeting (item 4)

- 2.1 The Chair of STACTIC, Mr David Bevan, provided a report of the work undertaken by STACTIC at inter-sessional meetings in May and June 2001 (FC Docs. 01/8 and 01/10).
- 2.2 He provided an update on the implementation of the automatic VMS system. While some Contracting Parties were still providing information in a manual manner, the system generally had been implemented. STACTIC agreed to correct a number of deficiencies in the system; a number of the elements in STACTIC WP 01/9 were accepted by STACTIC while other elements will require further review.
- 2.3 The Chair noted the proposal from Denmark which identified the issue of security and confidentiality of electronic reports and messages (STACTIC WP 01/15). It was **agreed that the ad hoc committee** on communications would review this issue and the remaining portions of STACTIC WP 01/9.

- 2.4 The Chair summarized the five proposals discussed at the June 2001 inter-sessional meeting with respect to the protection of juvenile fish and the reduction of excessive by-catch.
- Proposal to restrict directed fishing for Greenland halibut to a depth of 700 meters (STACTIC WP 01/1). It was agreed that STACTIC would **revisit the proposal at the annual meeting** based on further scientific advice;
 - Proposed expansion of the closed area for the 3M shrimp fishery (STACTIC WP 01/5). The initial proposal was to use a 450-meter depth contour as a means to describe the new closed area. This was rejected as most of the current fishing is prosecuted within the area proposed for the closure. It was agreed to **revisit the issue at the annual meeting** and to look at other means to protect juvenile shrimp in 3M. There was a suggestion that extension of the current time for the closure, using the existing 300-meter depth contour was one possibility and that other options could include more selective gear;
 - Proposed closed area on the Southeast Shoal of the Grand Banks with a view to protecting juvenile fish (STACTIC WP 01/2). The proposed closure would apply to all fisheries. This proposal was debated with no resolution and **referred to the annual meeting**;
 - Proposed increase in mesh size for groundfish to 145 mm (STACTIC WP 01/3). This proposal was **withdrawn** from consideration; and
 - Proposal to increase the skate mesh size to 305 mm with a view to protecting stocks under moratoria and juvenile fish (STACTIC WP 01/4). The data on vessels fishing for skate showed that the bulk of the catch often comprised several stocks under moratoria. After the June 2001 meeting, Canada had provided Contracting Parties with further information and data to support the justification for the 305-mm mesh size. This was **referred to the annual meeting** for further review.
- 2.5 With respect to the confidential treatment of electronic reports and messages (STACTIC WP 00/19), the Chair advised that it was agreed that Denmark and Norway would **redraft their respective papers** for presentation at the annual meeting.
- 2.6 The Chair described the discussion on the Icelandic ideas for an alternative observer program for shrimp fisheries in Division 3M (STACTIC WP 01/8) and that Iceland intended to make a formal presentation at the annual meeting.
- 2.7 He noted discussion on the use of observer data for scientific purposes (Scientific Council Document 00/23 and STACTIC WP 00/10). It had been agreed that the EU would submit a proposed amendment to STACTIC on Document 00/23 at the annual meeting.
- 2.8 With respect to chartering arrangements, a number of Contracting Parties indicated that they would not support their continuation.
- 2.9 He also reported on the STACTIC working group that met during May 1-3, 2001 with respect to the overhaul of the NAFO Conservation and Enforcement Measures.
- 2.10 The Chair concluded with two recommendations from STACTIC as follows:

- a small drafting group comprised of representatives of a few Contracting Parties to meet during 2002 to redraft the Conservation and Enforcement Measures in accordance with the table of contents developed at the May 1-3, 2001 Working Group meeting;
- the ad hoc committee on communications should meet inter-sessionally to undertake a more detailed study on the Danish proposal on the confidentiality issue, the data created by the VMS system as well as a technical proposal by Norway.

3. Possible Amendments to the Conservation and Enforcement Measures (item 5)

- 3.1 The Representative of Canada made a presentation to the Fisheries Commission which in his view identified a number of serious compliance issues in the NAFO Regulatory Area based on a detailed analysis of observer reports from 1999 and 2000 as well as a preliminary assessment of 2001 observer reports, Canadian surveillance information and VMS information. He advised that the presentation was intended to illustrate the rationale for the adoption of more effective management measures.
- 3.2 The presentation focused on directed fishing and excessive catches of moratoria stocks, exceeding quotas and misreporting of catch, directed fishing after a closure in 3L shrimp, the increased frequency of mesh size violations, increases in the issuance of citations of apparent infringements of the Conservation and Enforcement Measures and the non-submission or late submission of observer reports.
- 3.3 The Representative of Canada provided specific examples of each apparent infringement and noted that non-compliance in the NAFO Regulatory Area was increasing and that the impacts on stock recovery and growth were significant. He stated that the results of the Canadian analysis confirmed the detection capacity of the NAFO observer program. He expressed concern about the deterrence capacity of the enforcement programs of some Contracting Parties and the failure of many Contracting Parties to review their observer reports and respond to problems on a timely basis. He also noted significant discrepancies between observer reports and dockside inspections that needed to be resolved.
- 3.4 A number of Contracting Parties expressed concern and requested further information. The Representative of the European Union questioned the need to introduce additional management measures at this juncture and noted that the effects of the additional measures already introduced in 2000, i.e. the requirement to move fishing zone to avoid further by-catches of moratoria species, had not yet been properly assessed. Furthermore, he recalled that by-catches of moratoria species, which stayed within the prescribed limit of 5% under the currently applicable rules, were legitimate and deemed to have no adverse effects on the fish stocks concerned. Referring to the statement of the Scientific Council that "adherence to the NAFO by-catch would, in itself, contribute significantly to reducing by catches under moratoria" he concluded that the problem NAFO was confronted with was essentially one of control. If ever there were rogue vessels operating, these should be dealt with individually.
- 3.5 The Representative of Canada indicated that a detailed assessment of the 2001 fishery would be provided at the 2002 annual meeting and encouraged other Contracting Parties to conduct a similar analysis. He also indicated the desire to have the Fisheries Commission mandate STACTIC or a working group to regularly review observer reports, reports on non-compliance, to reconcile discrepancies between dockside inspection reports and observer reports, and to report its findings to the Fisheries Commission.

- 3.6 A number of working papers were presented as possible amendments to the Conservation and Enforcement measures:
- FC WP 02/5, Calculation of Incidental Catch Limits
 - 02/6 (revised), Proposal for an Alternative Observer Program
 - 02/8, Proposal to amend the NAFO Conservation and Enforcement Measures Regarding 3L Shrimp
 - 02/9, Depth Restrictions in the Greenland Halibut Fishery
 - 02/10, Closed Nursery Area for Groundfish
 - 02/11 Discussion Paper - Rules for By-catches and Undersized Fish
- 3.7 The Representative of Iceland made a formal presentation with respect to its proposal for an alternate observer program in shrimp fishing in Division 3M (FC WP 02/6 (revised)). He stated that Iceland has not supported 100% observer coverage in the 3M shrimp fishery since 1996 on the basis that it was not necessary in this fishery. While the fishery has increased since 1995, it has been conducted with little or no by-catch (1%) and there are no problems with high-grading. Under its proposal, vessels fishing in the area carry VMS and report to the monitoring and control of their flag State. The vessel would notify of its intention to enter the area and would report the catch onboard; the flag State would notify the NAFO Secretariat; and the vessel would transmit weekly catch reports. These reports would be sent to the Secretariat to permit a comparison of the catch and catch composition between vessels that have observers onboard and those without observers. This information would be transmitted to Contracting Parties that have an inspection presence in the area. This would allow Parties to see what vessels have different catches and catch composition. The advantages to using catch reporting would be the comparison between observed and unobserved vessels of catch on board, fish logs, landed catch, and other vessels fishing in the area. This would provide a system that was efficient enough to reduce the observer coverage in the 3M shrimp fishery.
- 3.8 There was considerable discussion on the Icelandic proposal. Some Contracting Parties saw benefits to reduced coverage but indicated that more information was necessary. Others expressed the view that since the entire observer program would be examined at the 2002 annual meeting, there was no reason for the 3M shrimp fishery to be treated in isolation. A number of Contracting Parties also raised concern about the loss of scientific information if there were a reduction in the level of observer coverage. The Representative of Iceland expressed his disappointment that his proposal was not agreeable to the Fisheries Commission and **FC WP 02/06 (revised) was withdrawn**. He stated that Iceland could not assure that they would continue to follow 100% observer coverage on a voluntary basis.
- 3.9 In reference to bycatch issues in FC WP 02/5 and FC WP 02/11, there was considerable discussion on how the by-catch rules were being applied and how to make them more understandable. It was **agreed to form a special working group** under STACTIC to modernize the Conservation and Enforcement Measures. The **issue was moved to the 2002 annual meeting** with a request to STACTIC to undertake a preliminary analysis.
- 3.10 In view of the over-fishing of 3L shrimp previously noted in the Canadian presentation, the Representative of Canada proposed an amendment to the NAFO measures with respect to 3L shrimp (FC WP 02/8) to restrict shrimp fishing in Division 3L to a total number of fishing days. He proposed that each Contracting Party be limited to 67t of shrimp or 14 fishing days - which ever came first. It was further proposed that Contracting Parties would report catches on a daily basis to the NAFO Secretariat. He also reiterated the need for the

current requirement that only one vessel fish shrimp in the NAFO Regulatory Area of Division 3L at one time.

- 3.11 There was considerable discussion on this proposal. Some Contracting Parties expressed concern that there were vessels fishing in excess of 100 days for 67mt of shrimp when catch rates were as high as 20mt per day. Other Contracting Parties stated that restrictions on days would impact on their activities as they fished with small vessels and had small catch rates. There was no consensus on the effort limitation and the proposal was withdrawn. It was **agreed** that Contracting Parties would report vessel catches to the NAFO Secretariat on a **daily basis**.
- 3.12 The Representative of Canada proposed the adoption of depth restrictions in the Greenland halibut fishery to depths greater than 700m, an increased mesh size in the skate fishery to 305mm (FC WP 02/9), and a closed area on the Southeast Shoal which is nursery area for certain flatfish stocks (FC WP 02/10). He advised that the three proposals represented a complementary package with a view to reducing bycatches and the harvest of juveniles and thus should be reviewed together as a package.
- 3.13 There was considerable discussion on the merits of a depth restriction. Some Contracting Parties expressed the view that the measure was unjustified and that it would be difficult to enforce. There was also concern regarding the ecological effects of this measure on stocks found in depths greater than 700m. A number of Contracting Parties found the proposed depth restrictions too extreme as a management measure. Following this discussion, the Representative of Canada revised the depth restriction proposal to restrict fishing for Greenland halibut to waters greater than 500m (FC WP 02/9 (Revised)). No consensus was reached on the matter and it was brought to a vote. The proposal was **not adopted** with three Contracting Parties voting in favour of the proposal (Canada, Japan, USA), six against (Estonia, European Union, France-SPM, Latvia, Lithuania, Poland) and six abstained (Cuba, Denmark, Iceland, Norway, Russia, Ukraine).
- 3.14 There was discussion on the request for a closure on the Southeast Shoal. Some Contracting Parties requested additional information on the proposal. The Representative of the European Union expressed concern that the proposed closure would shut off a significant portion of fishing area in international waters. He stated that it would appear that this area was more of a nursery area for yellowtail flounder and not American plaice. There was no consensus on this issue and the **proposal was withdrawn** by Canada.
- 3.15 There was considerable discussion on the proposal for a skate mesh size increase. Most Contracting Parties agreed that there were merits to a mesh size increase however the proposed size was questionable. Some Contracting Parties were concerned about the implementation date and suggested a phased approach. The Representative of the European Union proposed a modification of the proposal to increase the mesh to 280mm in the cod end (FC WP 02/13). Consensus was reached on this proposal and **FC WP 02/13 was adopted** with implementation in 2003 (Annex 3).
- 3.16 The Representative of the United States of America proposed to establish a regularized process to provide a transparent review of compliance issues (FC WP 02/14). She suggested that this could be undertaken through STACTIC on an annual basis which could report to the Fisheries Commission on issues with subsequent follow up action by Contracting Parties.

- 3.17 There appeared to be general agreement on this proposal but the text was redrafted as a working document to the Fisheries Commission report -

"the United States document is hereby transferred to STACTIC for scrutiny at its intersessional meeting in May, 2002. In this context, STACTIC was directed as follows:

- i) To initiate a process of annual review of compliance with NAFO rules and regulations;
- ii) To consider sections 6 and 7 of the aforementioned document as preliminary guidelines for its work; and
- iii) To make appropriate recommendations to the Fisheries Commission for consideration and decision at its 24th annual meeting in Spain in September 2002."

- 3.18 The Representative of the United States did not find this statement completely consistent with what had been discussed as she (Ms. P. Kurkul) believed the entire document would be provided as a preliminary guideline with particular note of sections 6 and 7 for the process in 2002 and she wished to have the report reflect her understanding.

4. Report of STACTIC at the Special Meeting (item 6)

- 4.1 The Chair provided an overview of the STACTIC meetings at the Special Meeting.

He identified the future work for STACTIC relating to two working papers, FC WP 02/05- Calculation of Incidental Catch Limits and 02/11-Discussion Paper on Rules for By-catch and Undersized Fish that had been adopted by the Fisheries Commission.

- 4.2 A proposal for a closed area on the Southeast Shoal of the Grand Banks was discussed. The discussion was inconclusive and was referred to the Fisheries Commission for decision or for further guidance.
- 4.3 A proposal to increase the mesh size for the skate fishery to 305mm was discussed at length. The proposal for the depth restriction **was referred back to the Fisheries Commission** without a recommendation.
- 4.4 A proposal for an alternative observer program was discussed and issues clarified as to what was intended by the working paper. After some discussion, it was suggested that Iceland would present a working paper to the Fisheries Commission, as modified by the discussions of STACTIC.
- 4.5 With respect to the STACTIC working group on the overhaul of the NAFO Conservation and Enforcement Measures, it **was agreed** to recommend a meeting of a **small drafting group** meet in July 2002 (the dates will be agreed between meeting parties) comprised of the United States, European Union and Canada, to redraft the conservation enforcement measures, in accordance with the table of contents developed at May 1-3, 2001 meeting.
- 4.6 It was indicated that Mr David Bevan was **re-elected** as Chairman of STACTIC.
- 4.7 The report of STACTIC was **adopted**, including the amendments in Annex 3. The Fisheries Commission agreed that STACTIC will meet in Copenhagen, Denmark, May 6-10, 2002 to discuss the items according to the STACTIC proposal (Part II, Annex 4).

5. Canadian Management Measures for Cod in Div. 2J3KL in 2001 (item 7)

- 5.1 There was considerable debate on Canada's decision to conduct a fishery for cod in Div. 2J3KL in 2001. Three Contracting Parties expressed displeasure with this decision and stated that it was inconsistent with the NAFO practice of having consistent measures inside and outside the Canadian zone. Misgivings were expressed that Canada not only fished over 5,000 tonnes last year but also once again has opened a cod fishery in this area, this time for a three-year period. The representative of the European Union stressed that the opening of this fishery was inconsistent with scientific advice and was done in disregard of concerns expressed on numerous occasions. As in previous years, there were neither any indications whatsoever to distinguish between different stock components for the inshore and offshore fisheries nor any justification of the decision in question. There was, therefore, in his view a clear and present danger that the Canadian measures would seriously undermine the efforts to ensure a long-term sustainability and the recovery of the stock.
- 5.2 The Representative of Canada stated that it was Canada's sovereign right to manage fisheries in its waters. He advised that the fishery would be conducted within 12-miles by inshore vessels, most less than 35 feet, with very strict limitations in place. The fishery is conducted to provide information on stock structure, distribution and age structure of the inshore component of this stock.

6. Summary of Scientific Advice by the Scientific Council (item 8)

- 6.1 The Chair of Scientific Council (shared by Mr. Bill Brodie and Mr. Ralph Mayo) drew the attention of delegates to three reports from Scientific Council: SCS Document 01/24, June 2001, 01/25, September 2001, and 01/26 from November 2001.

- 6.2 Advice for 2002

| | |
|------------------------------|--|
| Redfish 3M | 3,000- 5,000mt - by-catch of juvenile redfish at lowest possible level |
| Yellowtail Flounder 3LNO | not to exceed 13,000mt |
| Squid (<i>Illex</i>) 3+4 | 19,000 - 34,000mt |
| Greenland Halibut 2 + 3KLMNO | not to exceed 2001 level of 40,000mt |
| Capelin 3NO | no advice available |
| Cod 3NO | no directed fishery, lowest possible by-catch |
| Redfish 3LN | no directed fishery, lowest possible by-catch |
| American plaice 3LNO | no directed fishery, lowest possible by-catch |
| Shrimp 3L | 6,000mt |
| Shrimp 3M | 45,000mt |

Scientific Council provided an interim report on 3M cod, 3NO with flounder and American plaice in 3M, with flounder in Div.2J, 3K, 3L and Squid (*Illex*) in SA 3 + 4. There were no changes from previous advice.

- 6.3 Scientific Council presented responses to special requests including requests for information on the distribution of American plaice and yellowtail flounder, the effect of increasing mesh size in the Greenland halibut fishery, the methodology for scientific research for stocks under moratoria, advice on redfish in Division 1F and adjacent ICES areas, the size and stock distribution of pelagic *Sebastes mentella* in the NAFO Convention Area (1F, 2GHJ, and 3K) and ICES Div. XIV, X11 and Va, and information on unregulated species/stocks in the Regulatory Area.

- 6.4 Scientific Council also provided information on the distribution of the fishable biomass of the main commercial species in relation to depth intervals of 100m, maturity at depth, the medium term development of several stocks under various assumptions and the distribution of fishable biomass for 3LNO shrimp. Scientific Council raised concern about the catch of juvenile fish, increased catches of species under moratoria and the non-submission of observer log records to NAFO. There were a number of questions for clarification and comments. The Representative of Norway expressed concern that a number of Contracting Parties had fished in excess of 100 days in Division 3L for 67mt of shrimp when their catch rates were approximately 20mt per day and questioned how increased catches could affect the advice provided and if there were changes in distribution of shrimp in Division 3L. Scientific Council indicated that it was still unclear if the quota had been exceeded and the stock appeared to be increasing. They also advised that the distribution remained relatively the same as previous years.
- 6.5 The Representative of Latvia commented that it appeared shrimp in Division 3M was underestimated.
- 6.6 The Representative of the European Union expressed the view that there was conflicting advice on Greenland halibut in relation to the exploitation of juveniles in this fishery.
- 6.7 The Representative of Denmark expressed concern that there was a lack of information for shrimp that would be available at the September meeting to provide advice on the 2003 fishery.

7. Management and Technical Measures for Fish Stocks in the Regulatory Area, 2002 - Shrimp in Division 3M (item 9)

- 7.1 The Representative of Denmark (in respect of the Faroe Islands and Greenland) proposed a TAC and quota system in Division 3M (FC WP 02/02). Denmark noted the lack of support for its proposal and informed that it would not during this meeting further pursue the proposal and therefore withdrew it.
- 7.2 There was considerable discussion on the management measures for shrimp in Division 3M. A number of Contracting Parties expressed the desire to have a roll over of the management measures in this fishery from 2001 (75% of effort level) while others wanted a return to the 2000 management measures (90% of effort level). The Representative of Estonia proposed to have the management measure return to a 90% effort level (FC WP 02/16). After the first round of discussions, there was no consensus on the issue. Consequently, the Representative of Denmark (in respect of the Faroe Islands and Greenland) withdrew his proposal FC WP 02/12, but reserved the right to return to it at a later stage. During later discussions in a Heads of Delegations meeting, it became evident that a majority of the Contracting Parties could agree to the Estonian proposal (FC WP 02/16). As part of these discussions, the Representative of Denmark (in respect of the Faroe Islands and Greenland) offered to put proposal FC WP 02/12 back on the agenda. FC WP 02/16 was put to a vote. There were nine affirmative votes (Denmark-F&G, Estonia, European Union, Japan, Latvia, Lithuania, Poland, Russia, Ukraine) and six against (Canada, Cuba, France-SPM, Iceland, Norway, United States of America). The proposal was **adopted**. At this stage, Denmark (in respect of the Faroe Islands and Greenland) re-introduced FC WP 02/12, which was **adopted by** consensus.

8. Management and Technical Measures for Fish Stocks Straddling National Fishing Limits, 2002 (item 10)

Shrimp in Division 3LNO

- 8.1 The Representative of Denmark proposed a new sharing arrangement for shrimp in Division 3L in 2002 based on 93% historical catch, 3% on contribution to science, and 4% other (FC WP 3/02). This sharing proposal was the same as the one proposed for 3M shrimp. As there was no support for this proposal Denmark (in respect of the Faroe Islands and Greenland) informed that it would not during this meeting further pursue the proposal and therefore withdrew it. Furthermore, Denmark (in respect of the Faroe Islands and Greenland) expressed its disappointment that there was no support for its proposal and reserved its right to lodge an objection to any adoption regarding sharing of the 3L shrimp quota not taking into account the interests of Denmark (in respect of the Faroe Islands and Greenland).
- 8.2 There was considerable discussion on management measures for shrimp in Division 3L and it was **agreed** that the management measures that were in place relating to quota and sharing of the quota were **rolled over from 2001**. The quota was 6000mt with 5000mt available to Canada and 1000mt to other Contracting Parties (67mt per CP).

Greenland Halibut in Divisions 3LMNO

- 8.3 The Representative of the European Union expressed the view that the fishery could be conducted safely with a TAC of 44,000mt. Other Contracting Parties supported an increase from the current level of 40,000t. The Representative of Canada expressed concern in relation to the high catches of juveniles in this fishery and the bycatch of species under moratoria. He indicated that he could only support 40,000mt if measures were put in place to protect juveniles and reduce bycatches.
- 8.4 There was also concern raised about the accuracy of statistics supplied by Contracting Parties for this fishery and the large number of vessels fishing against the "Others quota" in this fishery. There was a need to ensure that Contracting Parties were working to ensure their catch reports were accurate.
- 8.5 The Representative of Denmark expressed concern over the footnote on the "Others quota" that states no more than 40% of catch by the first of May and 80% by the first of October. This stipulation would make fishing difficult for vessels with no other fishing opportunities. Thus he suggested that the footnote be amended. The Representative of France shared the Danish concern with respect to this footnote. He stated that he did not necessarily want the footnote deleted but maybe other options could be reviewed.
- 8.6 No consensus could be reached on the TAC for this fishery. The Representative of the European Union proposed an increase of the Greenland halibut TAC to 44,000mt (FC WP 02/18 (revised)). This proposal was put to a vote and was **adopted** with eight Contracting Parties in favour (Estonia, European Union, Japan, Latvia, Lithuania, Poland, Russia, Ukraine), six against (Canada, Cuba, Denmark-F&G, Iceland, Norway and the United States of America) and one abstention (France-SPM).

Redfish in Division 1F

- 8.7 The Representative of Canada introduced a proposal for a cooperative management approach between NAFO and NEAFC with respect to oceanic redfish (FC WP 02/7 - NAFO Management of Pelagic *Sebastes mentella* (Oceanic Redfish) in the NAFO Convention Area). There had been discussions on Oceanic Redfish at the Special Fisheries Commission Meeting in March 2001. It had been agreed to apply the NEAFC allocation on an interim basis for 1F redfish in 2001 and to otherwise use the NAFO Conservation and Enforcement Measures. Information received since then had prompted Canada to review this decision. In 2000 there was a substantial fishery in 1F and this continued in 2001. In 2001 the fishery moved further westward into Divisions 2J and 2H. There appeared to be a few thousand tonnes of redfish harvested outside Division 1F in the NRA in 2001.
- 8.8 ICES had indicated that the stock component in the upper water column has a higher distribution in the NAFO Regulatory Area than that which occurs in the NEAFC Convention Area. The Representative of Canada indicated that the distribution extends westward into Canada's fishing zone. As a result, the Representative of Canada proposed a sharing of the quota 75% to the coastal States and 25% to other Contracting Parties.
- 8.9 The Representative of Denmark (on behalf of Greenland) indicated that as a coastal State it had some say with respect to Oceanic Redfish. He appreciated the Canadian proposal and agreed that there was a need to find a way to ensure management between NAFO and NEAFC and it was important to have scientific advice from one body (i.e. ICES). He agreed with the idea of NEAFC setting the overall TAC but the sharing of quotas was a concern. The numbers in the sharing exercise would have to address what Greenland as a coastal State wanted in its zone. At this time, Denmark (on behalf of Greenland) could not enter into a discussion on quota shares as they have no instructions.
- 8.10 There appeared to be a consensus on the need for cooperation among NAFO and NEAFC/ICES given that this was an extremely complex situation. After the Chairman divided FC WP 02/17 (Revised) into 2 issues, namely the first two and the last pages, the Fisheries Commission **adopted** by consensus a revised version of the terms of reference of the ad hoc group (Annex 4) and then agreed that the ad hoc group would meet in Dartmouth, June 24-26. Canada **withdrew** the first two pages of FC W.P. 02/17 (Revised).

9. Formulation of Request to the Scientific Council (item 11)

- 9.1 The Representative of Canada made reference to FC WP 02/19 - Fisheries Commission's Request for Scientific Advice on Management in 2003 of Certain Stocks in Sub-areas 3 and 4, including supplementary questions on Division 3M shrimp for 2002. He noted that this proposal reflected some degree of consensus among scientists and technical experts of various delegations. FC WP 02/19 was **adopted** (Annex 5).
- 9.2 The Chair drew attention to Scientific Council Report 01/25, September 2001, page 15 which proposed bi- annual assessments for six stocks which would rationalize workload. Scientific Council requested that the same be put in place for three additional stocks: yellowtail flounder 3LNO, squid 3&4 and redfish 3M. It proposed that there would be an intermediate assessment for yellowtail and squid and an assessment on redfish in the summer of 2002, and then biannually after that.
- 9.3 The Representatives of the European Union and Canada indicated that they wished to have an assessment of American plaice in 3LNO in 2002. This would not mean amending the

schedule of the sequence of assessments but to have a special assessment in 2002, the scheduled assessment in 2003, intermediate assessment in 2004 and regular assessment in 2005. The requirement is to have a special assessment in 2002 not an intermediate assessment. The Chair advised that it had to be clearly written in any proposal why there was a requirement for a full assessment. **The Scientific Council's request to have three additional species assessed on a bi-annual basis was adopted.**

10. Election of Chairman and Vice-Chairman (item 12)

- 10.1 Following a proposal by Denmark (on behalf of the Faroes and Greenland), Mr. Dean Swanson (USA) was **elected** as Chairman of the Fisheries Commission.
- 10.2 Following a proposal by Estonia, Mr. Boris Prischepa (Russia) was **elected** as Vice Chairman of the Fisheries Commission.

11. Time and Place of the Next Meeting (item 13)

- 11.1 The annual meeting of NAFO will take place September 16-20, 2002 in Santiago de Compostela, Spain.

12. Other Business (item 14)

Precautionary Approach

- 12.1 The Representative of the United States of America tabled FC WP 02/15 which revisited the Precautionary Approach and reaffirmed what had been agreed at the 2000 annual meeting. She proposed that the Fisheries Commission agree to a working group meeting prior to the 2002 annual meeting.
- 12.2 There were questions on attendance (scientific, technical, administrative). The Representative European Union offered to host the meeting. The Representative of Canada indicated that they would work with the EU and the USA on this matter. The Representative of Russia proposed that the group meet just after Scientific Council in June 2002 in order to reduce expenses.
- 12.3 The Representative of Denmark suggested that it may be preferable to establish terms of reference that would help Contracting Parties determine if they wish to send a delegation. It would also determine whether this was a preparatory meeting to something larger or whether there would be recommendations to the Fisheries Commission. There was also a need to clarify the term "Precautionary Approach".
- 12.4 The Representative of the European Union stated that we are not starting from scratch and that there had been two working group meetings of science and managers on this subject. He saw the intention of the proposal to bring together an informal working group of interested parties with everyone welcome. He envisaged that this would be a reflection exercise that would review new developments and give indications on future work. The experts would identify further work and terms of reference may not be necessary. They would advise the Fisheries Commission of requests to Scientific Council.
- 12.5 It was **agreed** that an informal meeting of the working group on the precautionary approach would be held June 20-21 in Dartmouth, N.S., Canada. The preliminary terms of reference have been presented in FC W.P. 02/15 (Annex 6).

12.6 The Representative of Denmark indicated that there were some **issues related to chartering** and they wanted this issue tabled at the next annual meeting. In preparation for this discussion, he requested that the NAFO Secretariat prepare two papers:

- a comprehensive overview of all chartering arrangements; and
- an overview of compliance with Part 1.B. 7 of the Conservation and Enforcement Measures.

12.7 The Representative of the United States of America indicated that there had been an agreement in 2000 to return to **quota allocation issues** and she requested that this item be reflected on the September 2002 agenda.

13. Adjournment (item 15)

13.1 The Chairman thanked everyone for their cooperation over the last four challenging years. He stated that while there had some tough times, a lot had been achieved. He adjourned the meeting at 1400 hrs on February 1, 2002.

Annex 1. List of Participants

CANADA

Head of Delegation

P. S. Chamut, Assistant Deputy Minister, Dept. of Fisheries and Oceans, Fisheries Management, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 9662 – Fax: +613 990 9557

Representative

P. Chamut (see address above)

Advisers

R. Andrews, Director, Government and Industry Relations, Fishery Products International, 70 O'Leary Ave., P. O. Box 550, St. John's, Newfoundland A1C 5L1
Phone: +709 570 0115 – Fax: +709 570 0436 – E-mail: randrews@fpil.com

J. Angel, President, Canadian Association of Prawn Producers, P. O. Box 1C1, Head of St. Margarets Bay, N.S. B0J 1R0
Phone: +902 826 7765 - Fax: +902 826 7065 - E-mail: jangel@hfx.eastlink.ca

D. B. Atkinson, Regional Director, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 2027 - Fax: +709 772 6100 - E-mail: atkinsonb@dfo-mpo-gc.ca

J. W. Baird, A/Regional Director, Fisheries Management, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 4543 - Fax: +709 772 2046 - E-mail: bairdj@dfo-mpo.gc.ca

D. Bevan, Director General, Resource Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 6794 – Fax +613 954 1407 – E-mail: bevand@dfo-mpo.gc.ca

N. Bouffard, Director, Atlantic Affairs Div., International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., 13th Floor, Stn. 13159, Ottawa, Ontario K1A 0E6
Phone: +613 993 1860 - Fax: +613 993 5995 - E-mail: bouffardn@dfo-mpo.gc.ca

W. R. Bowering, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 - Fax: +709 772 6100 - E-mail: boweringr@dfo-mpo-gc.ca

B. Brodie, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 2027 - Fax: +709 772 6100 - E-mail: brodieb@dfo-mpo-gc.ca

B. Chapman, Executive Director, Groundfish Enterprise Allocation Council, 1388 River Road, Manotick, Ontario K4M 1B4
Phone: +613 692 8249 - Fax: +613 692 8250 - E-mail: bchapman@sympatico.ca

T. Dooley, Director, Resource Policy, Dept. of Fisheries and Aquaculture, P. O. Box 8700, St. John's, Newfoundland A1B 4J6
Phone: +709 729 0335 – Fax: +709 729 6082 - E-mail: tdooley@matl.gov.nf.ca

W. Evans, Supervisor, Offshore Surveillance, Conservation and Protection, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 4412 - Fax: +709 772 5983 - E-mail: evansw@dfo-mpo.gc.ca

D. Forsythe, Counsellor (Fisheries and Environment), Mission of Canada to the European Communities, Avenue de Tervuren, 2, Brussels 1040, Belgium
Phone: +32 2 741 0688 - Fax: +32 2 741 0629 - E-mail: douglas.forsythe@dfait-maeci.gc.ca

D. Gillett, Counsellor, Canadian Embassy, Kr Bernikowsgade 1, DK-1105, Copenhagen K, Denmark
Phone: +45 33 48 32 50 – Fax: +45 33 48 32 21 – E-mail: david.gillett@dfait-maeci.gc.ca

N. Greig, Makivik Corporation, P. O. Box 179, Kuujuaq, Quebec J0M 1C0
Phone: +819 964 2925 - Fax: +819 964 2613 - E-mail: n.greig@makivik.org

- S. Horsey, Finance and Administration Advisor, International Affairs, Dept. of Fisheries and Oceans, 200 Kent Street, Stn. 13159, Ottawa, Ontario K1A 0E6
Phone: +613 993 1898 - Fax: +613 993 5995 - E-mail: horseys@dfo-mpo.gc.ca
- B. Lester, Resource Management Officer-Groundfish, Resource Management – Atlantic, Fisheries Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 0090 – Fax +613 990 7051 – E-mail: lesterb@dfo-mpo.gc.ca
- A. MacLean, Director, Conservation and Protection Br., Maritimes Region, Dept. of Fisheries and Oceans, 176 Portland St., 5th Floor, Dartmouth, Nova Scotia B2Y 4T3
Phone: +902 426 3625 – Fax +902 426 8003 – E-mail: MacLeanA@mar.dfo-mpo.gc.ca
- E. McCurdy, President, Fishermen, Food and Allied Workers Union/CAW, P. O. Box 10, St. John's, Newfoundland A1C 5H5
Phone: +709 576 7276 - Fax: +709 576 1962
- P. McGuinness, Vice-President, Fisheries Council of Canada, 38 Antares Drive, Suite 110, Nepean, Ontario K2E 7V2
Phone: +613 727 7450 - Fax: +613 727 7453 - E-mail: pmcguinness@fisheriescouncil.org
- B. J. McNamara, President, Newfound Resources Ltd., 90 O'Leary Avenue, St. John's, Nfld. A1B 4G1
Phone: +709 579 7676 - Fax: +709 579 7668 - E-mail: nrl@nfld.com
- A. O'Rielly, President, Fisheries Association of Newfoundland and Labrador Ltd., P. O. Box 8900, St. John's, Newfoundland A1B 3R9
Phone: +709 726 7223 – Fax: +709 754 3339 – E-mail: aorielly@nfld.com
- G. Peacock, Director, Resource Management, Maritimes Region, Dept. of Fisheries and Oceans, 176 Portland St., Dartmouth, Nova Scotia B2Y 4T3
Phone: +902 426 3625 – Fax :902 426 9683 – E-mail: peacockg@mar.dfo-mpo.gc.ca
- A. Saunders, Legal Officer, Oceans, Environment and Economic Law Division (JLO), Dept. of Foreign Affairs and International Trade, 125 Sussex Drive, Ottawa, Ontario K1A 0G2
Phone: +613 996 2643 - Fax: +613 992 6483 - E-mail: allison.saunders@dfait-maeci.gc.ca
- M. Short, Special Advisor, Office of the Minister, Dept. of Fisheries and Oceans, Baine Johnston Center, Suite 801, 10 Fort Williams Place, St. John's, Newfoundland A1C 1K4
Phone: +709 772 5238 - Fax: +709 772 5244
- P. Steele, Director, Enforcement Br., Conservation and Protection, Fisheries Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 0109 – Fax +613 941 2718 – E-mail: steelep@dfo-mpo.gc.ca
- R. Steinbock, Senior Advisor, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
Phone: +613 993 1836 - Fax: +613 993 5995 - E-mail: steinbob@dfo-mpo.gc.ca
- R. Stirling, President, Seafood Producers Association of Nova Scotia, P. O. Box 991, Dartmouth, N. S. B2Y 3Z6
Phone: +902 463 7790 – Fax: +902 469 8294 – E-mail: spans@ns.sympatico.ca
- L. Strowbridge, Director, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 8021 - Fax: +709 772 2046 - E-mail: strowbridgel@dfo-mpo.gc.ca
- B. Luscombe-Thomsen, Business Development Officer, Canadian Embassy, Kr. Bernikowsgade 1, DK -1105, Copenhagen K, Denmark
Phone +45 33 483256 – Fax: +45 33 483221 – E-mail: bernadette.luscombe-thomsen@dfait-maeci.gc.ca
- B. Whelan, Head, NAFO Unit, Conservation and Protection, Fisheries Management, Newfoundland Region, Department of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 0928 – Fax: +709 772 0008 – E-mail: whelanb@dfo-mpo.gc.ca
- E. Wiseman, Director-General, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent Street, 13th Floor N, Stn 13-159, Ottawa, Ontario K1A 0E6
Phone: +613 993 1873 - Fax: +613 993 5995 - E-mail: wisemane@dfo-mpo.gc.ca
- F. Woodman, Chairman, Fisheries Resource Conservation Council, P. O. Box 2001, Station D, Ottawa, Ontario K1P 5W3
Phone: +613 998 0433 - Fax: +613 998 1146 - E-mail: costah@dfo-mpo.gc.ca

CUBA

Head of Delegation

E. Oltuski, Vice-Minister, Ministerio de la Industria Pesquera, 5^{ta} Avenue y 246, Sta Fe, Barlovento
Phone: +537 297008 – Fax: +537 246297 –E-mail: oltuski@fishnavy.inf.cu

Alternate

R. Matos, Director, Pesport, Ministerio de la Industria Pesquera, 5^{ta} Avenue y 246, Sta Fe, Barlovento
Phone: +537 615638 – Fax: + 537 626364 – E-mail: ferra@pesport.fishnavy.inf.cu

Representatives

E. Oltuski (see address above)
R. Matos (see address above)

DENMARK (IN RESPECT OF FAROES AND GREENLAND)

Head of Delegation

E. Lemche, Head of Representation, Gronlands Hjemmestyre, Pilestraede 52, Box 2151, DK-1016
Copenhagen K, Denmark
Phone: +45 33 69 34 35 - Fax: +45 33 69 34 01 - E-mail: el@ghsdk.dk

Alternate

A. Kristiansen, Ministry of Fisheries and Maritime Affairs, Yvirí við Strond 17, P. O. Box 347, FO-110
Torshavn, Faroe Islands
Phone: + 298 35 30 30 - Fax: +298 35 30 37 - E-mail: andrask@fisk.fo

Advisers

J. E. Hansen, Bondaheygur 9, FO-100 Torshavn, Faroe Islands
Phone: +298 312990/210810 – Fax: +298 33 35 95 – E-mail: hogi@post.olivant.fo
K. Hansen, Ministry of Fisheries, Yvirí við Strond 17, P. O. Box 347, FO-110 Torshavn, Faroe Islands
Phone: +298 353035 – Fax: +298 313981 – E-mail: KjaHa@fisk.fo
C. Hvingel, Greenland Institute of Natural Resources, P. O. Box 570, DK-3900 Nuuk, Greenland
Phone: +299 32 1095 – Fax: +299 32 5957 – E-mail: hvingel@natur.gl
G. Jeremiassen, , Greenland Home Rule, Box 269, 3900 Nuuk, Greenland
Phone: +299 34 50 00 - Fax: +299 32 47 04 - E-mail: gi@gh.gl
J. Joensen, Manager, PF. Lidin, FO-410 Kollafjordur, Faroe Islands
Phone: +298 421448 – Fax: +298 421584 – E-mail: lidin@post.olivant.fo
M. Kruse, Vaktar-og Bjargingartaenastan, P. O. Box 347, FR-110 Torshavn, Faroe Islands
Phone: +298 311065 – Fax: +298 383981 – E-mail: vb@vb.fo
L. D. Madsen, Head of Section, Dept. of Industry, Greenland Home Rule, Box 269, 3900 Nuuk, Greenland
Phone: +299 34 53 29 - Fax: +299 32 47 04 - E-mail: ldm@gh.gl
M. T. Nedergaard, Fiskerilicensinspektor, Head of Unit, Gronlands Fiskerilicenskontrol, Postbox 501, DK-3900 Nuuk, Greenland
Phone: +299 345377 - Fax: +299 323235 - E-mail: mads@gh.gl
A. Nicolajsen, Fiskirannsoknarstovan, Noatun, P. O. Box 3051, FR-110 Torshavn, Faroe Islands
Phone: +298 1 5092 - Fax: +298 1 8264 - E-mail: arminic@frs.fo
J. Nordbud, Foroya Reidarafelag, Box 361, FO-101 Torshavn, Faroe Islands
Phone: +298 311086 – Fax:+298 320380 – E-mail: shipown@post.olivant.fo
P. M. Pedersen, Greenland Sea Fishery and Export Association, (APK), P. O. Box 310, 3900 Nuuk, Greenland
Phone: +299 322 404 – Fax: +299 325689 – E-mail: peder@apk.gl
J. H. Toftum, Ministry of Fisheries, P. O. Box 64, FO-100 Torshavn, Faroe Islands
Phone: +298 353030 - Fax: +298 353035 - E-mail: jenst@fisk.fl.fo

ESTONIA**Head of Delegation**

A. Soome, Director General, Fishery Resources Dept., Ministry of the Environment, Marja 4d, 10617 Tallinn
Phone: +372 6112 987 - Fax: +372 6567 599 - E-mail: ain.soome@ekm.envir.ee

Representative

A. Soome (see address above)

Advisers

K. Märtin, Officer, Fisheries Department, Ministry of the Environment, Marja 4d, 10617 Tallinn
Phone: +372 656 7315 - Fax: +372 6567 599 – E-mail: kaire.martin@ekm.envir.ee
T. Roose, Deputy Director General, Estonian Environmental Inspectorate, Kopli 76, 10416 Tallinn
Phone: +3726962233 – Fax: +3726962237, E-mail: tarvo.roose@kki.ee
V. Ruul, General Manager, Permare Ltd., Rütli14/Nikolai 7, 80011 Pärnu
Phone: +372 44 70303 / 70301 – Fax: +372 44 70302 – E-mail: permare@hotmail.ee
T. Saat, Director, Estonian Marine Institute, University of Tartu, 18b Viljandi Road, 11216, Tallinn
Phone: +372 6281 570 - Fax: +372 6281 563 - E-mail: tsaat@sea.ee
A. Sõna, Manager, Reyktal Ltd., Veerenni 39, 10138 Tallinn
Phone: +372 6276 552 - Fax: +372 6276 555 - E-mail: reyktal@trenet.ee
T. Tamme, Roosikrantsi 2, 10119 Tallinn
Phone: +372 6110810 - Fax: +372 6110811 - E-mail: toomeu@alvinab.ee
L. Vaarja, Councillor, Ministry of the Environment, Fishery Resources Dept., Marja 4d, 10617 Tallinn
Phone: +372 656 - Fax: +372 6567 599 – E-mail: jauri.vaarja@ekm.envir.ee
O. Ynygason, Managing Director, Icelandic ExportCenter Ltd., Sidumuli 34, P. O. Box 1764, 121 Reykjavik, Iceland
Phone: +354 588 7600 – Fax: +354 588 7610 – E-mail: ottar@iec.is

EUROPEAN UNION**Head of Delegation**

J. Spencer, Head of Unit, International and Regional Arrangements, European Commission, Fisheries Directorate-General, 200 Rue de la Loi/Wetstraat, B-1049 Brussels, Belgium
Phone: +32 2 295 6858 - Fax: +32 2 295 5700 – E-mail: edward-john.spencer@cec.eu.int

Advisers

F. Wieland, Deputy Head of Unit, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi 200, B-1049 Brussels, Belgium
Phone: +32 2 296 3205 - Fax: +32 2 296 5951 - E-mail: Friedrich.Wieland@cec.eu.int
B. O'Shea, Senior Administrative Assistant, European Commission, Directorate General for Fisheries, Rue de la Loi/Wetstraat 200 (J99 1/27), B-1049 Brussels, Belgium
Phone: +32 2 296 6748 - Fax: +32 2 296 2338 – Email: brendan.o'shea@cec.eu.int
S. Ekwall, Administrator, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
Phone: +32 2 299 6907 - Fax: +32 2 295 5700 - E-mail: Staffan.Ekwall@cec.eu.int
K. Patterson, European Commission, Directorate General for Fisheries, Rue de la Loi 200, B-1049 Brussels, Belgium
Phone: + 32 2 299 8227 - Fax: +32 2 295 5621 – Email: kenneth.patterson@cec.eu.int
P. Heller, European Commission, Rue de la Loi 200, B-1049 Brussels, Belgium
Phone: +32 2 295 6445 – Fax: +322 299 1046 – E-mail: per.heller@cec.eu.int

- G. F. Kingston, Senior Adviser, Economic and Commercial Affairs, Delegation of the European Commission in Canada, 45 O'Connor Street, Suite 1900, Ottawa, Ontario, Canada K1P 1A4
Phone: +613 238 6464 – Fax: +613 238 5191 – E-mail: fred.kingston@delcan.cec.eu.int
- L. Svensson, Administrator, Council of the European Union, DG-BIII-Fisheries, Rue de la Loi 175, B-1048 Brussels, Belgium
Phone: +32 2 285 7853 - Fax: +32 2 285 6910 - E-mail: lars-evik.svensson@consilium.eu.int
- F. Curcio Ruigomez, Subdirector General de Organismos Multilaterales de Pesca, Direccion General de Recursos Pesqueros, Ministerio de Agricultura, Pesca y Alimentacion, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 91347 6047 – Fax: +34 913476049 – E-mail: fcurcio@mapya.es
- R. Akesson, Ministry for Agriculture and Fisheries, 10333 Stockholm, Sweden
Phone +46 08 405 1122 - Fax: +46 08 10 5061 - E-mail: rolf.akesson@agriculture.ministry.se
- S. Feldthaus, Head of Section, Ministry of Food, Agriculture and Fisheries, Holbergsgade 2, 1057 Copenhagen, Denmark
Phone: +45 33 92 35 60 – Fax: +45 33 11 82 71 – E-mail: sfe@fvm.dk
- Y. Becouarn, Direction des pêches maritimes et d l'aquaculture, Bureau de la ressource, de la réglementation et des affaires Internationales, Ministère de l'agriculture et de la pêche, 3, place de Fontenoy 75007 Paris
Phone: +33 01 49 55 82 38 – Fax: +33 01 49 55 82 00/74 37 – E-mail: yann.becouarn@agriculture.gouv.fr
- H. Pott, Bundesministerium für Ernährung, Landwirtschaft und Forsten, Rochusstr. 1, D-53125 Bonn, Germany
Phone: +49 228 529 4124 - Fax: +49 228 529 4410 – Email: hermann.pott@bml.bund.de
- E. Riediger, Doggerbank Seefischerei GmbH, Groenlandstrasse 1, 27531 Bremerhaven, Germany
Phone: +49 047171096 – Fax: +49 047173437
- H.-J. Rätz, Institut für Seefischerei, Palmaille 9, D-22767, Hamburg, Germany
Phone: +49 40 389 05169 – Fax: +49 40 389 05263 – E-mail: raetz.ish@bfa-fisch.de
- M. Stein, Institut für Seefischerei, Palmaille 9, D-22767, Hamburg, Germany
Phone: +49 40 389 05174 – Fax: +49 40 38905 263 E-mail: stein.ish@bfa-fisch.de
- E. Monteiro, Director-General, Direcção Geral das Pescas e Aquicultura, Edifício Vasco da Gama, Rua General Gomes Araujo, 1399-006 Lisbon, Portugal
Phone: +351 21 3914387 - Fax: +351 21 3979790 - E-mail: euricom@dg-psces.pt
- M. H. Figueiredo, Directora de Serviços, Dept. de Relações Comunitárias, Internacionais e de Cooperação, Direcção Geral das Pescas e Aquicultura, Edifício Vasco da Gama, Rua General Gomes Araujo, 1399-006 Lisbon, Portugal
Phone: +351 21 391 3560 Fax: +351 21 3979790 E-mail: hfigueir@dg-pescas.pt
- M. I. Aragon, Jefa Sección de la Subdirección General de Organismos Multilaterales de Pesca, Secretaría General de Pesca Marítima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 91 4025000 - Fax: +34 91 3093967 - E-mail: iaragonc@mapya.es
- A. Hermida Trastoy, Director General de Estructuras y Mercados de la Pesca, Conselleria de Pesca y Asuntos Marítimos Xunta de Galicia, Calle del Sar, 75, Santiago de Compostela 15702, A Coruna, Spain
Phone: +34981546347 - Fax: +34981546288 – E-mail: andres.hermida.trastoy@xunta.es
- J. Del Hierro, Subdirección General de Inspección Pesquera, Secretaría General de Pesca Marítima, c/ Castellana 112, 5ª Plto, Madrid, Spain
Phone: +34 91 3471645 - Fax: +34 91 3471512 – E-mail: jdelhier@mapya.es
- P. Rueda Crespo Palma, Delegada Territorial de Pontevedra en Vigo, Conselleria de Pesca y Asuntos Marítimos, c/2, Vigo 36002, Spain
Phone: +34 986 817139 – E-mail: paloma.rueda.crespo@xunta.es
- E. De Cardenas, Institute Espanol de Oceanografía, Avenida de Brasil 31, 28020 Madrid, Spain
Phone: +34 91 5974443 – Fax: +34 91 5974770 – E-mail: e.decardenas@md.ieo.es
- M. Rimmer, Sea Fisheries Conservation Div., Department for Environment, Food and Rural Affairs, Room 423b Nobel House, 17 Smith Square, London SW1P 3JR
Phone: +44 (0)20 7238 6529 - Fax: +44 (0)20 7238 5721 - E-mail: mike.rimmer@defra.gsi.gov.uk
- P. Franca, Presidente, A.D.A.P.I. – Associação Armadores das Pescas Industriais, Docapesca, Edifício Dos Armadores 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +213015020 - Fax: +213019438 - E-mail: adapi.pescas@mail.telepac.pt
- A. Paiao, Director, A.D.A.P.I.-Associação dos Armadores das Pescas Industriais, Docapesca, Edifício dos Armadores, 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +351 213015020 – Fax: +351 213019438 – E-mail: adapi.pescas@mail.telepac.pt

J. R. Fuertes Gamundi, Director Gerente, ANAMER-ANAVAR-AGARBA, Puerto Pesquero, Apartado 1.078, 36200 Vigo, Spain
 Phone: +34 986 433844 - Fax: +34 986 439218 – E-mail: soccoopa@aranzadi.es

M. Liria Franch, Presidente, Federacion Espanola de Organizaciones Pesqueras (FEOPE), C/Comandante Zorita, 12, Escalera 4ª - 1ºD, 28020 Madrid, Spain
 Phone: +34 915 33 3884 – Fax: +34 915 34 3718 – E-mail: feope@feope.com

C. Real Rodriguez, Presidente de "ASPE", Vigo, Spain
 Phone: +34 986 818190 – Fax: +34 986 818318 – E-mail: cesar.real@pescanova.es

M. Iriondo, Director Gerente, Pesquera Laurak Bat S.A., Armadores de Buques de Pesca, Edificio Consignatarios, 3a Planta. Puerto Apdo. de correos, 88 20110 Pasajes, Spain
 Phone: +34 943 354177 – Fax: +34 943 353993 – E-mail: langa99@teleline.es

J. L. Meseguer Sanchez, Secretario General, ARBAC – Asociacion de empresas de pesca de bacalao, especies afines y asociadas, Enrique Larreta, 10-3º, 28036 Madrid, Spain
 Phone: +34 913 151965 – Fax: +34 913 152673

R. Pombo, Director Gerente, Transpesca, S.A., Plaza de Compostela, 17 - 5ºB, 36201 Vigo, Spain
 Phone: +34 986 443190 – Fax: +34 986 221485 – E-mail: transpes@infonegocio.com

FRANCE (in respect of St. Pierre et Miquelon)

Head of Delegation

M. Plantegenet, Président du Conseil General de Saint Pierre et Miquelon, B.P. 187, 97500 Saint-Pierre et Miquelon
 Phone: +508 410102 – Fax: +508 412297 – E-mail: mplantegent@cencom.net

Alternate

D. Silvestre, Chargé de Mission, Secrétariat Général de la mer, 16, boulevard Raspail, 75007 Paris
 Phone: +53634153 – Fax: +53634178 – E-mail: daniel.silvestre@sgmer.premier-ministre.gouv.fr

Advisers

M. Chapalain, Chef du Service des Affaires maritimes, 1 rue Gloanec, 97500 Saint-Pierre et Miquelon
 Phone: +508 411530 – Fax: +508 414834 – E-mail: chefsam@cancom.net

B. Detcheverry, Directeur General, Interpeche S.A., Société des Pêches de Archipel, Quai du Môle Frigorifique, B.P.4249, 97500 Saint-Pierre et Miquelon
 Phone: +508 413991 – Fax: +508 413838 / 419947 – E-mail: interpeche@wanadoo.fr

D. Ortolland, Ministere des Affaires Etrangères, 37 quai d'Orsay, 75007 Paris 07 SP
 Phone: +0143175339 – Fax: +0143175505 – E-mail: didier.ortolland@diplomatie.gouv.fr

ICELAND

Head of Delegation

T. Skarphedinsson, Legal Adviser, Ministry of Fisheries, Skulagata 4, 150 Reykjavik
 Phone: +354 560 9670 – Fax: +354 562 1853 - E-mail: thorir@hafro.is

Advisers

H. Gisladottir, The Icelandic Directorate of Fisheries, Ingilfsstraeti, 150 Reykjavik
 Phone: +354 5697900 - Fax: +354 5697991 - E-mail: hrefnag@fiskistofa.is

H. Laxdal, President, The Icelandic Engineer Officers Association, Borgartun 18, 105 Reykjavik
 Phone: +354 562 9062 – Fax: +354 562 9096 –E-mail: hl@vsfi.is

K. Ragnarsson, Chairman, Federation of Icelandic Fishing Vessel Owners, P. O. Box 893, 121 Reykjavik
 Phone: +354 550 9500 - Fax: +354 550 9501 – E-mail: kristjan@liu.is

T. Sigurdsson, Marine Research Institute, Skulagata 4, 101 Reykjavik
 Phone: +354 5520240 - Fax: +354 5623790 - E-mail: steini@hafro.is

H. Steinarsson, The Icelandic Directorate of Fisheries, Ingilfsstraeti, 150 Reykjavik
 Phone: +354 5697900 - Fax: +354 5697991 - E-mail: hostein@hafro.is

JAPAN

Head of Delegation

S. Yuge, Councillor, Resources Management Dept., Fishery Agency Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100
Phone: +81 3 3502 8111 (ext. 7007) - Fax: +81 3 3502 0571

Alternate

K. Iino, Minister Counsellor, Embassy of Japan, Pilestraede 61, 1112 Copenhagen K, Denmark
Phone: +45 33 11 33 44 – Fax: +45 33 11 33 77

Advisers

S. Fukui, International Affairs Division, Fisheries Agency, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8907
Phone: +81 3 3591 1086 – Fax: +81 3 3802 0571 – E-mail: shingo-fukui@nm.maff.go.jp
K. Sawano, 3-27, Kioi-cho, Chiyoda-ku, Tokyo 102-0094
Phone: +81 3 3265 8302 – Fax: +81 3 3262 2359 – E-mail: sawano@jamanc.go.jp
K. Suzuki, Assistant Director, Fisheries Div., Economic Affairs Bureau, Ministry of Foreign Affairs, 2-11-1 Shibakoen, Minato-ku, Tokyo 105-8519
Phone: +81 3 6402 2234 – Fax: +81 3 6402 2233 – E-mail: keiko.suzuki@mofa.go.jp
N. Takagi, Director, Executive Secretary, Japan Deep Sea Trawlers Association, Ogawacho-Yasuda Bldg., 6 Kanda-Ogawacho, 3-Chome, Chiyoda-ku, Tokyo 101-0052
Phone: +81 33 291 8508 – Fax: + 81 33 233 3267 – E-mail: jdsta-takagi@msg.biglobe.ne.jp
M. Fischer (Interpreter), General Manager, Miki Travel Agency ApS, Gammel Koge Landevej 117-1, DK-2500 Valby, Copenhagen, Denmark
Phone: +45 36 178811 – Fax: +45 36 178812 – E-mail: miki@mikittravel.dk

LATVIA

Head of Delegation

N. Riekstins, Director, National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
Phone: +371 732 3877 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv

Alternate

R. Derkacs, Head of International Agreements and Legal Division, National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
Phone: +371 732 3877 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv

Advisers

U. Rinkis, Senior Officer, Fisheries and Fish Resources Div., National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
Phone: +371 733 4478 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv
D. Kalinov, President, "Mersrags" Ltd., Brivibas Gatve 215A-46, LV-1039 Riga
Phone: +371 754 2471 – Fax: +371 755 2593 – E-mail: skaga@latnet.lv

LITHUANIA

Head of Delegation

V. Vaitiekunas, Director, Fisheries Dept. under the Ministry of Agriculture, 19 Gedimino str., Vilnius 2600
Phone: +370 02 391174 – Fax: 37002 341176 – E-mail: vytautasv@zum.lt

Alternate

A. Rusakevicius, Fisheries Department under the Ministry of Agriculture, 19 Gedimino St., 2600 Vilnius
Phone: +370 2 391183 - Fax: +370 2 391176 - E-mail: algirdasr@zum.lt

NORWAY**Head of Delegation**

P. Gullestad, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
Phone: +47 55 23 80 00 Fax: +47 55 23 80 90 E-mail: peter.gullestad@fiskeridir.dep.telemax.no

Alternate

T. Lobach, Senior Legal Adviser, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
Phone: +47 55 23 80 00 Fax: +47 55 23 80 90 E-mail: terje.lobach@fiskeridir.dep.telemax.no

Advisers

W. Barstad, Norwegian Fishing Vessel Owners Association, P.O. Box 67 Sentrum, 6001 Aalesund
Phone: +47 70 10 14 60 - Fax: +47 70 10 14 80 - E-mail: webjorn@fiskebatreder.no
E. K. Viken, Executive Officer, Norwegian Ministry of Fisheries, P. O. Box 8118 Dep., 0032 Oslo
Phone: +47 22 24 6482 – Fax: +47 22 24 9585 – E-mail: ellen.viken@fid.dep.no

POLAND**Head of Delegation**

J. Gozdzikowski, Deputy Director, Fisheries Department of the Ministry of Agriculture & Rural Development, Wspólna 30, 00-930 Warsaw
Phone: +48 22 6280826 – Fax: +48 22 623 2204 – E-mail: jan.gozdzikowski@minrol.gov.pl

Advisers

L. Dybiec, Counsellor to the Minister, Ministry of Agriculture and Rural Development, Fisheries Department, Wspólna 30, 00-930 Warsaw
Phone: +48 22 628 9684 – Fax: +48 22 623 2204 – E-mail: leszek.dybiec@minrol.gov.pl
B. Szemioth, Parkowa 13/17/123, Warszawa
Phone: +48228408920 – Fax: 48228408920 – E-mail: szemioth@alpha.net.pl

RUSSIA**Head of Delegation**

A. N. Makoedov, Deputy Chairman, State Committee for Fisheries of the Russian Federation, 12 Rozhdestvensky Boul., Moscow 103031
Phone: +7 095 928 5527 - Fax: +7095 928 5527

Representative

A. N. Makoedov (see address above)

Advisers

V. E. Agalakov, “MURMANRYBVOD”, Komintern 5 str., 183672 Murmansk
Phone: +7 8152 453562 – Fax: +47 789 10217 – E-mail: mrv@an.ru

V. K. Babayan, Head of Laboratory for System Analysis of Fishery Resources, VNIRO, 17, V. Krasnoselskaya, Moscow 107140
 Phone: +7095 264 6983 – E-mail: vbabayan@vniro.ru

O. I. Novokrechenov, Deputy Chief, International Dept., State Committee for Fisheries of the Russian Federation, 12 Rozhdestvensky Boul., Moscow 103031
 Phone: +7095 928 2679 – Fax: +7095 9213463 – E-mail: mikulina@fishcom.ru

A. Okhanov, Russian Representative on Fisheries in Canada, 47 Oceanview Drive, Bedford, Nova Scotia, Canada B4A 4C4
 Phone: +902 832 9225 – Fax: +902 832 9608 – E-mail: rusfish@ns.sympatico.ca

Y. Piskarev, Russian Fisheries Representative, Embassy of the Russian Federation, Kristianiagade 5, 2100 Copenhagen, Denmark
 Phone: +45 3542 5585/86 – Fax: +45 3542 3741 – E-mail: fis.comm@mail.tele.dk

B. F. Prischepa, Head of Department, “MURMANRYBVOD”, Kominterna 5 str., 183038 Murmansk
 Phone: +7 8152 458679 – Fax: +47 789 10676 – E-mail: mrsv@an.ru

V. Shibanov, Research Director, PINRO, 6 Knipovich St., Murmansk 183763
 Phone: +7 8152 4734 61 – Fax: +47 789 10 518 – E-mail: inter@pinro.murmansk.ru

V. N. Solodovnik, Deputy Chief, Dept. of International, Legal and Biological Foundations in Fisheries, VNIRO, 17, V. Krasnoselskaya, Moscow 107140
 Phone: +7095 264 9143 – Fax: +7095 264 9187

E. Volkovinskaya, Interpreter, PINRO, 6 Knipovich St., Murmansk
 Phone: +7 8152 4734 61 – Fax: +47 789 10 518 – E-mail: inter@pinro.murmansk.ru

UKRAINE

Head of Delegation

V. B. Chernik, Deputy Chairman, State Department for Fisheries of Ukraine, 82A Turgenivska str., Kiev, 04050
 Phone: +38044 226 2405 - Fax: +380 44 226 2405 – E-mail: nauka@i.kiev.ua

Advisers

V. Litvinov, Senior Expert, Div. for International Fishing Policy, State Department for Fisheries of Ukraine, 82A Turgenivska str., Kiev 252053
 Phone: +38044 246 8984 - Fax: +38044 246 8984 – E-mail: nauka@i.kiev.ua

Y. Pavlov, Counsellor, Charge d’Affaires a.i., Embassy of Ukraine, Toldbodgade 37 A, 1 sal, DK-1235 K, Copenhagen, Denmark
 Phone: +45 33 161635 – Fax: +45 33 160074 – E-mail: embassy.ua@mail.tele.dk

L. Petsyk, Director, Chernomorskaya Rybolovnaya Kompania Ltd., 12, Safronova, Sevastopol
 Phone: +38 0692451905 – Fax: +38 0692 577277

UNITED STATES OF AMERICA

Head of Delegation

P. Kurkul, Regional Administrator, Northeast Region, National Marine Fisheries, 1 Blackburn Drive, Gloucester, MA 01930
 Phone: +978 281 9250 - Fax: +978 281 9371 - E-mail: pat.kurkul@noaa.gov

Representatives

P. Kurkul (see address above)

J. Pike, Director, Government Relations, Scher and Blackell, Suite 900, 1850 M Street NW, Washington, DC 20036
 Phone: +202 463 2511 - Fax: +202 463 4950 - E-mail: jpik@sherblackwell.com

B. D. Stevenson, Seller’s Representative, 2 Portland Fish Pier, Suite 109, Portland, ME 04101
 Phone: +202 775 5450 – Fax: +207 773 9096 – E-mail: bds02@sprynet.com

Advisers

J. Anderson, Fisheries Management Specialist, Northeast Region, National Marine Fisheries Service, U.S. Department of Commerce, 1 Blackburn Dr., Gloucester, MA 01930

Phone: +978 281 9226 - Fax: 978-281-9135 - E-mail: jennifer.anderson@noaa.gov

P. Martin, Lieutenant Commander, Coast Guard Liaison Officer, Office of Marine Conservation (Rm 5806), U.S. Department of State, 2201 C Street NW, Washington, D.C. 20520

Phone: +202 647 3177 - Fax: +202 736 7350 - E-mail: pmartin@comdt.uscg.mil

R. Mayo, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543

Phone: +508 495 2310 - Fax: +508 495 2393 - E-mail: ralph.mayo@noaa.gov

P. Moran, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Hwy., Silver Spring, MD 20910

Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: pat.moran@noaa.gov

W. Quinby, Director, Mayflower Shipping Ltd., 655 Summer Street, Boston, MA 02210

Phone: +843 577 0560 – Fax: +843 577 6644 – E-mail: mayflower@mindspring.com

F. M. Serchuk, Chief, Resource Evaluation and Assessment Division, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543-1097

Phone: +508 495 2245 - Fax: +508 495 2258 - E-mail: fred.serchuk@noaa.gov

D. E. Swanson, Chief, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Highway, Silver Spring, MD 20910

Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: dean.swanson@noaa.gov

OBSERVER

D. J. Douman, Senior Fishery Liaison Officer, Food and Agriculture Organization of the United Nations (FAO), International Institutions and Liaison Service, Fishery Policy and Planning Division, Fisheries

Dept. Viale delle Terme di Caracalla, Room F-409, 00100 Rome, Italy

Phone: +39 0657 056752 – Fax: +39 0657 056500 – E-mail: david.douman@fao.org

SECRETARIAT

L. I. Chepel, Executive Secretary

F. D. Keating, Administrative Assistant

B. J. Cruikshank, Senior Secretary

S. Goodick, Accounting Officer

G. Moulton, Statistical/Conservation Measures Officer

F. E. Perry, Desktop Publishing/Documents Clerk

SECRETARIAT ASSISTANCE

M. Hansen, Greenland Home Rule Office, Copenhagen

Annex 2. Agenda

1. Opening by the Chairman, P. Gullestad (Norway)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Report of STACTIC June 2001 Meeting
5. Possible amendments to the Conservation and Enforcement Measures
6. Report of STACTIC at the Special Meeting
7. Canadian Management Measures for Cod in Div. 2J3KL in 2001
8. Summary of Scientific Advice by the Scientific Council
9. Management and Technical Measures for Fish Stocks in the Regulatory Area, 2002
 - 9.1 Shrimp in Div. 3M
10. Management and Technical Measures for Fish Stocks Straddling National Fishing Limits, 2002
 - 10.1 Shrimp in Div. 3LNO
 - 10.2 Greenland halibut in Div. 3LMNO
 - 10.3 Redfish in Division 1F
11. Formulation of Request to the Scientific Council:
 - a) Timetable and Frequency of Assessments
 - b) Scientific advice on the management of fish stocks in 2003
12. Election of Chairman and Vice-Chairman
13. Time and Place of the Next Meeting
14. Other Business
15. Adjournment

Annex 3. Increased Mesh Size
(FC W.P. 02/13-Rev.)

Part V, Schedule IV of the NAFO Control and Enforcement measures shall read as follows :

Authorised Mesh Size of Nets

| <u>Species</u> | <u>Mesh Size</u> |
|--|-----------------------|
| a) All principal groundfish, flatfishes and other groundfish and other fish with the exception of capelin and skate, as listed in Part V, Schedule II, Attachment II | 130 mm |
| b) skate - codend | 280 mm ⁽¹⁾ |
| all other parts of trawl | 220 mm ⁽²⁾ |

Existing b) and c) be re-lettered c) and d).

⁽¹⁾This measure shall apply from 01 July 2002.

⁽²⁾This measure shall apply from 01 January 2003.

**Annex 4. NAFO Ad hoc Group on NAFO Management of Oceanic Redfish
Terms of Reference**
(FC W.P. 02/17-Rev.)

An Ad hoc Group on NAFO Management of Oceanic Redfish shall be established to meet during 2002 to consider management of the oceanic redfish stock in the NAFO Convention Area. The Ad hoc Group shall report its recommendations to the NAFO annual meeting in September 2002.

The Ad hoc Group shall consider all aspects of management including:

- a) the distribution of the oceanic redfish stock in the Northwest Atlantic;
- b) scientific advice from ICES;
- c) relationship and management process between NAFO and NEAFC.

**Annex 5. Fisheries Commission's Request for Scientific Advice on Management
in 2003 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 2002 Annual Meeting, provide advice on the scientific basis for the management of the following fish and invertebrate stocks or groups of stocks in 2003:

Redfish (Div. 3M)
Shrimp (Div. 3M, 3LNO)
Greenland halibut (Subarea 2 and Div. 3KLMNO)
Capelin (Div. 3NO)

2. 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 2002 Annual Meeting, provide advice on the scientific basis for the management of the following fish stocks on an alternating year basis:

Cod (Div. 3NO; Div. 3M)
Redfish (Div. 3LN)
Yellowtail flounder (Div. 3LNO)
American plaice (Div. 3LNO; Div. 3M)
Witch flounder (Div. 2J3KL; Div. 3NO)
Squid (Subareas 3 and 4)

- In 2001, advice was provided for 2002 and 2003 for cod in 3NO, witch flounder in 2J3KL and redfish in 3LN. These stocks will next be assessed in 2003.
- In 2001, advice was provided for 2002 and 2003 for American plaice in 3LNO. The Fisheries Commission with the concurrence of the Coastal State, requests Scientific Council in advance of the 2002 Annual Meeting, to conduct a full analytical assessment of American plaice in Div. 3LNO and to review its advice for 2003. Scientific Council is further requested to analyse and comment on the precision of the estimates of the recent increase in fishing mortality. The next assessment will then take place in 2003 as per the alternate year schedule.
- In 2002, advice will be provided for 2003 and 2004 for cod in 3M, American plaice in 3M, yellowtail flounder in 3LNO, witch flounder in 3NO and squid in SA 3 & 4. These stocks will next be assessed in 2004.

The Fisheries Commission requests the Scientific Council to continue to monitor the status of all these stocks annually and, should a significant change be observed in stock status (e.g. from surveys) or in by-catches in other fisheries, provide updated advice as appropriate.

3. The Commission and the Coastal State request the Scientific Council to consider the following in assessing and projecting future stock levels for those stocks listed above:
 - a) The preferred tool for the presentation of a synthetic view of the past dynamics of an exploited stock and its future development is a stock assessment model, whether age-based or age-aggregated.
 - b) For those stocks subject to analytical-type assessments, the status of the stocks should be reviewed and management options evaluated in terms of their implications for fishable stock size in both the short and long term. As general reference points, the implications of fishing at $F_{0.1}$ and F_{2001} in 2003 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.

- c) 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.
- d) For those resources for which only general biological and/or catch data are available, few standard criteria exist on which to base advice. The stock status should be evaluated in the context of management requirements for long-term sustainability and the advice provided should be consistent with the precautionary approach.
- e) Spawning stock biomass levels considered necessary for maintenance of sustained recruitment should be recommended for each stock. In those cases where present spawning stock size is a matter of scientific concern in relation to the continuing reproductive potential of the stock, management options should be offered that specifically respond to such concerns.
- f) Information should be provided on stock size, spawning stock sizes, recruitment prospects, fishing mortality, catch rates and TACs implied by these management strategies for the short and the long term in the following format:
 - I. For stocks for which analytical-type assessments are possible, graphs of all of the following for the longest time-period possible:
 - historical yield and fishing mortality;
 - spawning stock biomass and recruitment levels;
 - catch options for the year 2003 and subsequent years over a range of fishing mortality rates (F) at least from $F_{0.1}$ to F_{max} ;
 - spawning stock biomass corresponding to each catch option;
 - yield-per-recruit and spawning stock per recruit values for a range of fishing mortalities.
 - II. For stocks for which advice is based on general production models, the relevant graph of production as a function of fishing mortality rate or fishing effort. Age-aggregated assessments should also provide graphs of all of the following for the longest time-period possible:
 - exploitable biomass (both absolute and relative to B_{MSY})
 - yield/biomass ratio as proxy for fishing mortality (both absolute and relative to F_{MSY})
 - estimates of recruitment from surveys, if available.
 - III. Where analytical methods are not attempted, the following graphs should be presented, for one or several surveys, for the longest time-period possible:
 - time trends of survey abundance estimates, over:
 - an age or size range chosen to represent the spawning stock (SSB)
 - an age or size-range chosen to represent the fishable stock biomass
 - recruitment proxy or index for an age or size-range chosen to represent the recruiting population.
 - fishing mortality proxy, such as the ratio of reported commercial catches to a measure of the fishable stock.

For age-structured assessments, yield-per-recruit graphs and associated estimates of yield-per-recruit based reference points should be provided. In particular, the three reference points, actual F, $F_{0.1}$ and F_{max} should be shown.

- g) For shrimp in Div. 3M, including the area in footnote 1 of Part I, G of the Conservation and Enforcement Measures (the 3L ‘box’), Scientific Council is requested, in advance of the annual NAFO Meeting of September 2002, to provide information on the monthly distribution of shrimp by size as taken in the commercial fishery and to comment on these distributions in relation to the closed area of Div. 3M as defined by co-ordinates in footnote 2 of Part I, G of the Conservation and Enforcement Measures and the consequences to the stock of the following scenarios: a) closure of the area during June 1 through December 31, and b) no closure at any time.
4. Noting the progress made by the Scientific Council on the development of a framework for implementation of the Precautionary Approach, the Fisheries Commission requests that the Scientific Council provide the following information for the 2002 Annual Meeting of the Fisheries Commission for stocks under its responsibility requiring advice for 2003, or 2003 and 2004:
- a) the limit and target precautionary reference points described in Annex II of the UN Fisheries Agreement indicating areas of uncertainty (when precautionary reference points cannot be determined directly, proxies should be provided);
 - b) information including medium term considerations and associated risk or probabilities which will assist the Commission to develop the management strategies described in paragraphs 4 and 5 of Annex II in the Agreement;
 - c) information on the research and monitoring required to evaluate and refine the reference points described in paragraphs 1 and 3 of Annex II of the Agreement; these research requirements should be set out in the order of priority considered appropriate by the Scientific Council;
 - d) any other aspect of Article 6 and Annex II of the Agreement which the Scientific Council considers useful for implementation of the Agreement's provisions regarding the precautionary approach to capture fisheries;
 - e) propose criteria and harvest strategies for re-opening of fisheries and for new and developing fisheries; and
 - f) to work toward the harmonization of the terminology and application of the precautionary approach within relevant advisory bodies.
5. In addition, the following elements should be taken into account by the Scientific Council when considering the precautionary approach:
- a) Many of the stocks in the NAFO Regulatory Area are well below any appreciable level of B_{lim} or B_{buf} . For these stocks, the most important task for the Scientific Council is to inform on how to rebuild the stocks. In this context and building on previous work of the Scientific Council in this area, the Scientific Council is requested to evaluate various scenarios corresponding to recovery plans with timeframes of 5 to 10 years, or longer as appropriate. This evaluation should provide the information necessary for the Fisheries Commission to consider the balance between risks and yield levels, including information on the consequences and risks of no action at all.

References to “risk” and to “risk analyses” should refer to estimated probabilities of stock population parameters falling outside biological reference points.

- b) Where reference points are proposed by the Scientific Council as indicators of biological risk, they should be accompanied by a description of the nature of the risk incurred if the reference point is crossed (e.g. short-term risk of recruitment overfishing, loss of long-term yield, etc.)
- c) When a buffer reference point is proposed in order to maintain a low probability that a stock, measured to be at the buffer reference point may actually be at or beyond the

limit reference point, the Scientific Council should explain the assumptions made about the uncertainty with which the stock is measured, and also the level of 'low probability' that is used in the calculation.

- d) Wherever possible, short and medium term consequences should be identified for various exploitation rates (including no fishing) in terms of yield, stability in yield from year to year, and the risk or probability of moving the stock beyond B_{lim} or B_{buf} . Whenever possible, this information should be cast in terms of risk assessments relating fishing mortality rates to the risks of falling below B_{lim} and B_{buf} , as well as of being above F_{lim} and F_{buf} , the risks of stock collapse and recruitment overfishing, as well as the risks of growth overfishing and the consequences in terms of both short and long term yields.
 - e) When providing risk estimates, it is very important that the **time horizon** be clearly spelled out. By way of consequence, risks should be expressed in timeframes of 5, 10 and 15 years (or more), or in terms of other appropriate year ranges depending on stock specific dynamics. Furthermore, in order to provide the Fisheries Commission with the information necessary to consider the balance between risks and yield levels, each harvesting strategy or risk scenario should include, for the selected year ranges, the risks and yields associated with various harvesting options in relation to B_{lim} (B_{buf}) and B_{target} , and F_{lim} (F_{buf}) and F_{target} .
6. For squid (Illex) in Subareas 3 and 4, the Scientific Council is encouraged to further analyze available data toward developing possible indicators that could be used under an in-season management regime.
 7. The Fisheries Commission, with the concurrence of the Coastal State, requests that the Scientific Council comment on the possible relationship of witch flounder in 2J3KL to that reported as caught in Div. 3M based on examination of all survey and biological data available.
 8. Regarding pelagic *S. mentella* redfish in NAFO Subareas 1-3, the Scientific Council is requested to review the most recent information on the distribution of this resource, as well as on the affinity of this stock to the pelagic redfish resource found in the ICES Sub-area XII, parts of SA Va and XIV and to the shelf stocks of redfish found in ICES Sub-areas V, VI and XIV, and NAFO Subareas 1-3.
 9. With regard to shrimp in Divisions 3LNO, the Fisheries Commission, with the concurrence of the Coastal State, requests that the Scientific Council, in advance of the September 2002 Annual Meeting, provide information on the geographical distribution of this resource including the relative and seasonal distribution inside and outside the NAFO Regulatory Area by both Division and age group. With reference to the proposed closed area in the region of the South East Shoal in Div. 3N as referenced in FC Working Paper 02/10, Scientific Council is further requested to provide information on the abundance and distribution of shrimp in the area proposed for closure.

**Annex 6. Fisheries Commission/Scientific Council Precautionary
Approach Meeting**

(FC W.P. 02/15)

Three joint meetings between Fisheries Commission and Scientific Council have been held between 1998 and 2000. Scientific Council held its first Workshop in advance of the 1998 joint FC/SC meeting to develop methods to apply the Precautionary Approach Framework to a variety of stocks. In 1999 Scientific Council held a second meeting immediately before the joint FC/SC meeting to focus on three candidate stocks for which sufficient information was available to conduct stock projections and risk analyses. No Scientific Council workshops have been held since 1999, but Scientific Council has provided information within the PA framework to Fisheries Commission during each year since for Yellowtail flounder in Div. 3LNO, Cod in Div. 3NO and American plaice in Div. 3LNO. It has not been possible as yet to provide information within the PA framework for other stocks.

Scientific Council intends to hold another workshop during spring 2003 to develop information within the PA framework for a number of additional stocks. With a view to making further progress on the implementation of the Precautionary Approach, it was agreed at the 2000 Annual Meeting

‘ ... that a small group of technical experts will meet in the first half of 2001 to advance future work in the Fisheries Commission Working Group. The small meeting will be organized by the European Community. A report from this meeting will be circulated to all Contracting Parties, with a recommendation whether the Working Group should meet prior to the 23rd Annual meeting, and if so, provide an agenda for the meeting.’

This meeting of Technical Experts has not as yet taken place. In order to advance the Precautionary Approach within NAFO, it is proposed that this small group of technical experts meet to carry out the work agreed at the 2000 Annual Meeting. The group of technical experts representing the Fisheries Commission and the Scientific Council will:

- 1) establish a basis for implementation of the Precautionary Approach for stocks for which the Scientific Council has provided PA reference points, and
- 2) develop recommendations for future work of the Fisheries Commission/Scientific Council Working Group

The report of the meeting of Technical Experts will be presented to the Fisheries Commission at the 2002 Annual Meeting.

PART II

Report of the Standing Committee on International Control (STACTIC)

1. Opening of the Meeting

The Chairman, Mr. David Bevan (Canada), opened the meeting at 10:10 on 29 January 2002. Representatives from the following Contracting Parties were present: Canada, Denmark (in respect of Faroe Islands and Greenland), Estonia, the European Union, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Latvia, Lithuania, Norway, Poland, Russian Federation, Ukraine and the United States.

2. Appointment of Rapporteur

Mr. Paul Steele (Canada) was appointed rapporteur.

3. Adoption of the Agenda

The proposed agenda was adopted without amendments (see Annex 1).

4. Discussion of the Conservation and Enforcement Measures as the follow-up of STACTIC June 2001 Meeting

4(a) Program for Observers and Satellite Tracking for shrimp in Division 3M

The representative from Iceland made a presentation regarding Iceland's proposal for an alternative observer program for shrimp fisheries in Division 3M (STACTIC WP 02/1). The position of Iceland is that 100% observer coverage is not required for the 3M shrimp fishery, as this is a relatively clean fishery where bycatches and discards are not major problems. The alternative program proposed by Iceland is based on weekly catch reports, 20% observer coverage, mandatory dockside inspection of all landings by vessels without observers and a prohibition from fishing other regulated species during fishing trips where fishing for shrimp is conducted in Division 3M. The dockside inspections of vessels without observers would be more detailed than the dockside inspections currently being done on vessels with observers onboard. Information on catch composition would be gathered for future comparison to similar data for vessels carrying observers.

The representative of Norway welcomed the proposal and stated that Norway concurs with Iceland's view that 100% observer coverage is not necessary in the 3M shrimp fishery. He questioned whether the proposal applies only to Division 3M or would shrimp fisheries in Division 3L also be included. The representative from Iceland indicated that the proposal relates only to Division 3M. The Norwegian representative pointed out that 3L shrimp is a regulated species and that the Iceland proposal as currently written would prohibit vessels from fishing for shrimp in Divisions 3M and 3L on the same trip. He suggested that this be amended as it would not be practical.

The representative from the European Union noted that a review of the NAFO observer program is already planned for this year and that the European Union would prefer to wait and address the Icelandic proposal in the context of this review.

The representative from Canada questioned the rationale for the proposed 20% coverage level. He also pointed out that most shrimp vessels fishing in the Regulatory Area offload their catches in Canadian ports. Therefore the Icelandic proposal should be clear as to which Contracting Party will be responsible for conducting dockside inspections of these vessels.

The representative from Iceland stated that due to the geographic size of the fishing areas in Division 3M and the fact that the scientific data has proven that bycatch is only approximately 1% of total catch in the shrimp fishery, it is Iceland's position that 20% observer coverage is satisfactory. He also noted, in giving advice to NEAFC in 1998 on an appropriate monitoring scheme for the oceanic redfish fishery, ICES advised that 25% coverage is sufficient. Iceland feels that, given the discussions at NEAFC and the limited size of the fishing areas in Division 3M, 20% coverage would be sufficient for the 3M shrimp fishery.

The representative from the United States stated that they continue to support 100% observer coverage in all fisheries taking place in the Regulatory Area. She also questioned how Iceland would propose to deal with the potential problem of discarding/highgrading in the shrimp fishery.

The representative from Japan questioned how the issue of discarding/highgrading would be addressed for vessels without observers onboard.

The representative from Iceland stated that the discarding problem could be addressed by conducting comparisons of the catch composition of vessels carrying observers with those vessels not carrying observers.

The representative from Denmark (in respect of Greenland and the Faroe Islands) noted that Iceland's proposal for 20% coverage would apply only to Division 3M and not Division 3L where a quota management system is currently in effect. In view of this, he questioned whether Iceland's proposal would still apply to Division 3M if a quota management system were to be implemented for the 3M shrimp fishery. The Icelandic representative confirmed that this would be the case.

The representative from Canada asked who would be responsible for doing the comparative analysis of catch data from observed vs. unobserved vessels. The representative from Iceland responded that these details have not yet been worked out but that the NAFO Secretariat may be able to carry out this task and then transmit the results to the Contracting Party/flag state and to other Contracting parties with an inspection presence in the Regulatory Area. The NAFO Secretariat commented that there may be additional costs incurred by the Secretariat if their role is enhanced or if the volume and type of information received from fishing vessels is changed.

The representative from Canada asked if the scope of the Icelandic proposal had been expanded since it was initially submitted at the June 2001 STACTIC meeting. At that time the reduced level of observer coverage was proposed only for Icelandic vessels whereas the current proposal seems to call for reduced coverage of all vessels fishing for shrimp in Division 3M. The representative from Iceland confirmed that this is the case.

The representative from Ukraine indicated that Ukraine is not certain at this time as to the appropriateness of the Icelandic proposal. He suggested a decision regarding the proposal should be delayed until the September, 2002 annual meeting.

It was agreed that Iceland would revise their proposal to address comments made by the other Contracting Parties. The revised working paper (FC Working Paper 02/6) was then submitted to the Fisheries Commission for their consideration.

4(b) Canadian Proposals to Protect Juveniles and Reduce Bycatch

The representative from Canada briefly summarized two proposals that had been introduced at the June, 2001 STACTIC meeting to address the recommendations made by the Scientific Council in 1999 and 2000 about the need to examine measures for the protection of juvenile fish and the reduction of by-catch.

The first Canadian proposal (STACTIC WP 01/1) is to implement a depth restriction of 700m for the Greenland halibut fishery. The Canadian representative indicated that such a restriction would be effective in minimizing the capture of juvenile fish and reducing bycatch but would not place undue hardship on the viability of the Greenland halibut fishery.

The second Canadian proposal (STACTIC WP 01/4) relates to the possible adoption of new measures to protect flounder species in the skate fishery, where these species are taken as incidental catch. The Canadian representative indicated that vessels using larger mesh size can effectively fish for skate while avoiding incidental catches of flounder. On the other hand, vessels using 130mm mesh experience excessive incidental catches of moratoria species.

The Canadian representative noted that Scientific Council reports over the last three years have made numerous recommendations that the Fisheries Commission take all possible steps to ensure by-catches of American plaice are reduced significantly and restricted to true and unavoidable by-catches in fisheries directed for other species. The Scientific Council has also continually recommended measures be considered to reduce, as much as possible, the exploitation of juvenile Greenland halibut in all fisheries. More recently, in September, 2001 the Scientific Council stated that exploitation of American plaice should be reduced through elimination of mixed fisheries in shallower than 800 m depths and mesh size regulation for the skate fishery. The Council also expressed concern regarding the high proportion of juveniles caught in the Greenland halibut fishery.

The Canadian representative noted that for most of the NAFO Regulatory Area, there are only three legitimate fisheries for groundfish stocks which are not under moratoria: Greenland halibut, yellowtail flounder, and skate. He expressed the view that a depth restriction for the Greenland halibut fishery, coupled with an increased minimum mesh size for the skate fishery (305mm for the cod-end and 254mm for all other parts of the trawl) would effectively eliminate the opportunity for directed fisheries of moratoria species and that such measures would also provide some protection for juvenile Greenland halibut.

The representative from the European Union stated that STACTIC is not the appropriate forum for taking decisions with regard to proposed new management measures for fisheries in the Regulatory Area. He indicated that these proposals must be discussed by the Fisheries Commission and that the European Union is not prepared at this point to endorse any recommendation from STACTIC to the Fisheries Commission in relation to the Canadian proposals.

The Chairman indicated that he would report to the Fisheries Commission, on behalf of STACTIC, on the current status of the scientific advice and on the outcome of the discussions regarding the Canadian proposals at the two most recent STACTIC meetings.

A third Canadian proposal (STACTIC WP 01/5) dealt with a possible enhancement of the closed area for the 3M shrimp fishery. Canada's initial proposal had been to expand the current 3M shrimp closure from the 300m depth contour to the 450m depth contour and to extend the closure from the current period (June 1 to September 30) to a year round closure. Recognizing that this

would require a major alteration to current fishing activity, however, Canada agreed at the June 2001 STACTIC meeting to amend the proposal so as to retain the coordinates of the current closed area while extending the time period of the closure to the entire year.

The representative from Denmark (in respect of the Faroe Islands and Greenland) introduced a proposal (STACTIC WP 02/2) whereby fishing for shrimp would be prohibited within the area in question during the period of June 1, 2002 to December 31, 2002. The representative from Iceland supported this proposal.

The representative from Japan stated that, in accordance with the Scientific Council's special comment (SCS Doc. 01/26), the effectiveness of selective fishing gear (sorting grates) should be further evaluated as an alternative to an area closure. Japan feels that the use of dual sorting grates can provide sufficient protection for juvenile shrimp. The representative from the European Union agreed that more scientific advice should be sought regarding gear selectivity in the shrimp fishery. The representative from Denmark (in respect of the Faroe Islands and Greenland) stated that he has not yet seen results from gear selectivity trials that would indicate convincingly that the use of sorting grates would be as effective as an area closure in protecting juvenile shrimp.

The representative from Japan questioned why the period of June 1 to December 31 had been chosen by Denmark as the appropriate period for a closure. The representative from Denmark (in respect of the Faroe Islands and Greenland) stated that the intent was to avoid disturbing the fishery in the early part of the year, when larger shrimp tend to be more prevalent as compared to the latter part of the year when the capture of smaller shrimp is more likely. He noted that, based on the experience of fishermen he has consulted, the shrimp taken in the proposed closed area in the latter part of the year are very small, and it is possible to conduct a viable fishery for larger shrimp outside the boundaries of this area.

The representative from Norway agreed that it would not be appropriate to close the area in the early part of the year, when larger shrimp are more available. The representative from the United States pointed out that the Scientific Council advice was that the most effective time for a closure would be in the March-April timeframe.

The Chairman of the Scientific Council (Mr. Ralph Mayo) commented that the March-April period is the time when fishing effort is at its highest level, therefore a closure would have a greater impact during this period. He noted that the Scientific Council had recommended a year-round closure and more extensive use of sorting grates. He also pointed out that the Scientific Council will not be meeting this week and therefore there will be a delay in responding to any request that STACTIC or the Fisheries Commission puts to them for additional information on this issue. The Chairman indicated that he would provide a verbal report to the Fisheries Commission regarding the discussion at STACTIC on this matter.

The representatives from Norway, the European Union, Iceland, Estonia and Latvia expressed support for the proposal made by Denmark (in respect of the Faroe Islands and Greenland). The representative from the United States also supported the proposal, although stating a preference for a year round closure as recommended by the Scientific Council.

The representative of the Russian Federation supported the proposal in principle but would prefer to review it in more detail and re-visit it at the September, 2002 annual meeting.

The representative from Japan stated that Japan does not support the proposal because it is uncertain that the period of June 1 to December 31 is the appropriate period for a closure.

A fourth Canadian proposal (STACTIC WP 01/2) deals with the possible creation of a closed area on the Southeast Shoal area of the Grand Bank in Division 3N. This area has been identified by the Scientific Council as a nursery area for 3NO cod, 3LNO American plaice, 3LNO yellowtail flounder and 3NO witch flounder. The Canadian proposal has been referred to the Fisheries Commission for review; therefore it was not discussed at this STACTIC meeting.

5. Discussion of Possible Amendments to the Conservation and Enforcement Measures

The Chairman summarized the work that has been done to date on this issue. A working group meeting was held in Ottawa May 1-3, 2001 to begin a review of the Conservation and Enforcement Measures. This group produced a working paper (STACTIC WG WP 01/2 – Inconsistencies/Redundancies in the NAFO Conservation and Enforcement Measures) which proposed a framework for revisions to the format of the measures. The Chairman asked for comments from Contracting Parties regarding this working paper and the approach proposed for carrying out the review of the measures.

The representative from the European Union expressed agreement with the proposed approach and suggested that a small working group be established to begin work on drafting amendments to the measures. The drafting exercise would focus on removing redundancies and inconsistencies found in the current Measures and on reformatting the document in accordance with the framework proposed in STACTIC WG WP 01/2. No substantive changes would be made to the Measures.

It was agreed to proceed in this manner. Canada, the United States and the European Union will provide representatives for the working group. The proposed amendments will be presented to STACTIC at the annual meeting in September, 2002.

6. Review of Operation of the Automated Hail/VMS System

The NAFO Secretariat provided an update regarding the operation of the automated hail/VMS system. Most Contracting Parties have successfully tested their capability to provide automated reports. Reference was made to a table compiled by the Secretariat (see Annex 2) which summarizes the current situation with regard to each Contracting Party. Some are providing all reports in automated form while others are providing positional information in automated form and the other reports manually.

The Secretariat encouraged all Contracting Parties to continue working with them to fully implement automated reporting of all required information. They also indicated that some Contracting Parties have not yet provided names of contacts for this initiative to the Secretariat. Those Contracting Parties that have not yet done so were asked to advise the Secretariat of their representatives/contacts as soon as possible.

The European Union representative pointed out that the coordinates for delineating the NAFO Regulatory Area are not available to Contracting Parties and that this is making it difficult for some vessels and Contracting Parties to comply with the automatic reporting requirements. The Secretariat indicated that they had been provided with coordinates but have not received approval to circulate them. STACTIC Working Paper 02/3, introduced by Denmark (in respect of Greenland and the Faroe Islands) and Norway, proposes an amendment to the Conservation and Enforcement Measures to add a requirement for Contracting Parties to cooperate with the Executive Secretary in order to establish a database delineating the Regulatory Area by latitude and longitude coordinates. The representatives from Canada and the United States undertook to provide accurate coordinates, in WGS 84 format, to the NAFO Secretariat as soon as possible. The Executive Secretary will promptly circulate these coordinates to all Contracting Parties.

The representative from Norway introduced STACTIC Working Paper 01/9 regarding the possible adoption by NAFO of certain codes and data elements set out in the North Atlantic Format. There was general agreement that some elements of the working paper (see Annex 3) should be adopted immediately by STACTIC while other elements will require further review.

The representative from Denmark (in respect of Greenland and the Faroe Islands) referred to STACTIC Working Paper 01/15 on the issue of security and confidentiality of electronic reports and messages. This paper had been submitted at the June 2001 STACTIC meeting and has since been revised based on comments received at that meeting. While there was general agreement in principle with this paper, it was decided that a more detailed review of the proposal should be conducted by the ad hoc committee on communications that had met in 2001 to address the issue of VMS/Hail reports. The representative from Canada agreed with this approach but noted that he had some concerns regarding the procedures proposed for the transmission of vessel positional information to Contracting Party inspection vessels. It was also agreed that the ad hoc committee on communications will be asked to review those elements of the Norwegian proposal (STACTIC WP 01/9) that were not decided upon at this meeting.

7. Election of Chairman

By unanimous agreement, Mr. David Bevan was re-elected for another two-year term.

8. Time and Place of the Next Meeting

It is recommended that inter-sessional meetings be held according to Annex 4.

9. Other Matters

No other matters were discussed.

10 . Adoption of the Report

The report was adopted by STACTIC on 30 January 2002.

11. Adjournment

The meeting adjourned at 1530 on 30 January 2002.

Annex 1. Agenda

1. Opening by the Chairman, D. Bevan (Canada)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Discussion of the Conservation and Enforcement Measures as the follow-up of STACTIC June 2001 Meeting:
 - a) Program for observers and satellite tracking for shrimp in division 3M
5. Discussion of possible amendments to the Conservation and Enforcement Measures (request from the Fisheries Commission)
6. Review of Operation of the Automated Hail/VMS system
7. Election of Chairman
8. Time and Place of the Next Meeting
9. Other Matters
10. Adoption of Report
11. Adjournment

**Annex 2. Status report of NAFO automated HAIL/VMS activities up to
December 31, 2001**

| Contracting Party | Tested OK | Entry | Move | Transzonal | Transshipment | Exit | Position |
|--------------------|------------|-----------|-----------|------------|---------------|-----------|-----------|
| Bulgaria | NA | - | - | - | - | - | - |
| Canada | 22/08/01 | | | | | | |
| Cuba | Unable | | | | | | |
| Den. Faroe Islands | 10/09/01 | automatic | automatic | | | automatic | automatic |
| Greenland | 12/07/01 | | | | | | |
| Estonia | 29/11/01 | manual | manual | | | manual | automatic |
| E.U. Denmark | 21/08/01 | | | | | | |
| France | No reply | | | | | | |
| Germany | Ongoing | | | | | | |
| Great Britain | No reply | | | | | | |
| Portugal | 10/08/01 | manual | manual | | | manual | |
| Spain | 25/10/01 | manual | manual | manual | | | automatic |
| France SPM | No contact | | | | | | |
| Iceland | 07/07/01 | manual | | | | manual | automatic |
| Japan | 29/08/01 | automatic | automatic | | | automatic | automatic |
| Korea | No reply | | | | | | |
| Latvia | No contact | manual | manual | | | manual | automatic |
| Lithuania | No contact | manual | | | | manual | |
| Norway | 07/07/01 | automatic | | | | automatic | automatic |
| Poland | 27/09/01 | automatic | automatic | | | | automatic |
| Romania | NA | - | - | - | - | - | - |
| Russia | 18/07/01 | automatic | manual | | | automatic | automatic |
| Ukraine | No Contact | manual | manual | | | manual | |
| U.S.A. | Ongoing | | | | | | |

Annex 3. Elements of STACTIC W.P. 01/9 that have been agreed upon by STACTIC

Some data elements defined in the CEM are not in compliance with the current use of the North Atlantic Format. In order to harmonise the use of codes and reporting procedures on both sides of the Atlantic the following amendments should be made:

- The code DI (NAFO division) should be changed to RA (relevant area)
- The code HO (in Hold) should be changed to OB (catch on board)
- The code DS (directed species) should be retained instead of changed to TS (Target species)

We propose that NAFO in the reporting scheme uses decimal degrees (\pm ddd.ddd) with the data identifiers LG and LT instead of degrees and minutes (BDDMM).

In order to facilitate system operation, the data elements Record Number (RN), Record Date (RD) and Record Time (RT) should be included also in the Entry, Exit and Transshipment reports.

The fields XR and NA should be made optional in the automatic reports.

Annex 4. Intersessional Meetings, STACTIC and STACTIC Working Groups, 2002

1. STACTIC Working Group reviewing the NAFO Conservation and Enforcement Measures.
 - This group will reorganize the NAFO Conservation and Enforcement Measures in accordance with the revised format and table of contents approved by STACTIC (STACTIC W.G. W.P. 01/2 - Inconsistencies/Redundancies in the NAFO Conservation and Enforcement Measures).
 - Proposed time – July 2002
 - Proposed place – Halifax, N.S., NAFO Headquarters
 - Participation as per STACTIC recommendation (accepted by FC) – EU, U.S., Canada

2. Intersessional Meeting of STACTIC – Proposed Agenda
 - a) Review of the NAFO Observer/VMS Scheme
 - Use of observer information for scientific purposes
 - Review of performance of Automated Hail/VMS System
 - Evaluation of options to modify the observer/VMS Scheme
 - Effectiveness
 - Benefits/Costs

Ad hoc STACTIC Committee on Communication

 - This STACTIC Ad hoc group will meet to discuss
 - Confidentiality issues respecting data received as a result of the Automated Hail/VMS System (STACTIC W.P. 01/15)
 - Discuss improvements to the Automated Hail/VMS System.
 - b) Review of Compliance
 - As guided by section 6 of FC W.P. 02/14 (Revised), STACTIC will establish a framework for evaluation of compliance, identify data sources, establish timeframes and formats for submission of data and schedule future meetings (to be approved by Fisheries Commission) to conduct the analyses of the data and prepare a report on compliance for the Fisheries Commission.
 - c) Review of options for the control/avoidance of incidental catches
 - STACTIC will review the measures for the control of incidental catches including those proposed in FC W.P. 02/5 and FC W.P. 02/11 among others with a view to streamlining and simplifying them. In the event that consensus cannot be reached on the content of streamlined and simplified measures, STACTIC will develop options with identified impacts for consideration by the Fisheries Commission at the next meeting.

Proposed time - 5 days in May. If work not completed, an additional 3 days prior to Annual Meeting (Spain).

Proposed location for May – Open to options from Contracting Parties

Proposed Participants – STACTIC + any additional experts needed for Ad hoc Committee on Communication.

In order to facilitate discussions, the STACTIC Chairman, invited interested Contracting Parties to submit discussion papers on the above subjects to the Secretariat by no later than 60 days prior to the Meeting. Teleconferences to discuss papers may be held among Contracting Parties submitting papers to aid in the preparation for the meetings.

SECTION III
(pages 103 to 178)

**Report of the Standing Committee on
International Control (STACTIC)
May 6-9, 2002
Copenhagen, Denmark**

| | |
|--|-----|
| Report of the Standing Committee on International Control (STACTIC) | 105 |
| 1. Opening of the Meeting | 105 |
| 2. Appointment of Rapporteur | 105 |
| 3. Adoption of Agenda..... | 105 |
| 4. Review of the NAFO Observer/VMS Scheme | 105 |
| 5. Review of Compliance..... | 108 |
| 6. Review of Options for the Control/Avoidance of Incidental Catches..... | 109 |
| 7. Other Business | 110 |
| 8. Time and Place of Next Meeting | 110 |
| 9. Adjournment | 110 |
| Annex 1. List of Participants | 111 |
| Annex 2. Agenda | 115 |
| Annex 3. Summary of Responses to STACTIC W.P. 02/10 | 116 |
| Annex 4. Summary of Responses to STACTIC W.P. 02/11 | 120 |
| Annex 5. Review of the Observer Scheme and Vessel Monitoring System (VMS) | 121 |

Report of the Standing Committee on International Control (STACTIC)

(FC Doc. 02/11)

**Copenhagen, Denmark
May 6-9, 2002**

1. Opening of the Meeting

The Chairman, Mr. David Bevan (Canada), opened the meeting at 10:00 on May 6, 2002. Representatives from the following Contracting Parties were present: Canada, Denmark (in respect of Faroe Islands and Greenland), Estonia, the European Union, Iceland, Japan, Lithuania, Norway, Russian Federation, and the United States (Annex 1).

2. Appointment of Rapporteur

Mr. Paul Steele (Canada) was appointed rapporteur.

3. Adoption of the Agenda

The proposed agenda was adopted with one amendment (see Annex 2).

4. Review of the NAFO Observer/VMS Scheme

Review of the Observer/VMS Scheme

The Secretariat introduced STACTIC Working Paper 02/4, which included a summary of observer reports received from Contracting Parties and the format/contents of those reports.

Several Contracting Parties noted that Annex 2 of the working paper indicated that for many fishing trips, observer reports had not been submitted to the Secretariat.

It was agreed that the first step of the review process should be for each Contracting Party to clearly describe their current observer and VMS programs. Two questionnaires were developed to guide this information gathering process. The information from the completed questionnaires is summarized in STACTIC Working Papers 02/16 and 02/17 (Annexes 3 and 4).

The Chairman requested Contracting Parties to provide answers to the Secretariat by June 15, 2002 to the questions contained in WP 02/18 and requested that the Secretariat forward those questions to Contracting Parties not present so that they too might respond by the established deadline. The intention is to compile the information needed for the review prior to the Annual Meeting, September 2002.

It was agreed that the NAFO Secretariat should be asked to compile the information provided in the questionnaires, including the additional information to be provided by Contracting Parties not attending this meeting. The Secretariat should then use this and other available information to develop summary tables and graphs regarding surveillance activities, costs and results. The format would be similar to the document prepared by STACTIC in 1998 as part of the evaluation of the observer and satellite tracking program (FC Doc. 98/13). A working paper describing the review framework is attached (Annex 5). The Secretariat will take steps, with the Contracting Parties, to implement the agreed-upon framework.

Evaluation of Options to Modify the Observer/VMS Scheme

The representative from Iceland made a presentation regarding an alternative observer program. The alternative program proposed by Iceland is based on 20% observer coverage, daily electronic transmission of observer reports and catch reports, transmission of VMS messages every two hours and timely comparison of results from observed and unobserved vessels.

The representative from Canada questioned the scope of the proposed pilot project, i.e. would it apply to an entire fishery or to a small group of vessels within a fishery? He noted the need for clear evaluation criteria for such a project and questioned whether there would be a requirement for additional patrol vessel coverage in order to respond to problems arising from the catch and observer reports, i.e. would additional costs be incurred by Contracting Parties with an inspection presence in the Regulatory Area?

The representative from Iceland indicated that all of the details regarding the working paper had not yet been worked out and that Iceland is prepared to discuss these matters with other Contracting Parties.

The representative of Canada also asked if the functioning of the proposed pilot project could initially be implemented while 100% observer coverage was in place. The representative from Iceland replied that such an approach would not allow for comparative analysis between observed and non-observed vessels. This issue was addressed in the subsequent discussions and is outlined in the guidelines below.

The representative from the European Union stated that the daily transmission of catch data is a positive aspect of the proposal, but the potential cost implications and the scope of the project require further review. He noted that the project could only work if the Secretariat and all inspection vessels are fully equipped and capable of handling the reports transmitted from the fishing vessels.

The representative from Japan expressed agreement with the general approach outlined in the Icelandic proposal, but questioned whether the 20% coverage level may be too low.

The representative from the United States stated a preference for 100% observer coverage but indicated that the U.S. is willing to further review the proposal.

Several other Contracting Parties expressed a desire to study the proposal further before taking a firm position.

The representative from Iceland stated that, while he had hoped that the proposal could have been further advanced at this meeting, he was pleased that Contracting Parties are prepared to give it their full consideration. He stated that Iceland will be prepared to discuss the concept in more detail at the September 2002 annual meeting.

A group of representatives was then established to develop points for consideration by the Fisheries Commission. This guidance follows:

STACTIC has examined the working paper (STACTIC W.P. 02/9) in the light of the review of the program for observers and satellite tracking set out in part VI of the NAFO Conservation and Enforcement Measures.

Without prejudice to the decisions to be taken by the Fisheries Commission STACTIC notes a number of points for consideration by the Fisheries Commission, including:

1. Definition of the scope. The scope of such pilot project should be clearly defined in volume (number of vessels), percentage of coverage and time. As this pilot project implies that certain vessels may operate in the Regulatory Area without an observer onboard, the Fisheries Commission may consider to define the maximum number of vessels by Contracting Party without an observer. In part VI of the NAFO Conservation and Enforcement Measures a temporary exemption from the requirement to have 100 % observer coverage needs to be foreseen. Furthermore, as the pilot project proposed provides for daily catch reporting as well as the daily transmission of observer report, the total number of vessels participating in the pilot project should also be defined.
2. Technical facilities. It should be prohibited to engage in such pilot project if the technical facilities are not in place and tested. Only Contracting Parties which have these facilities put in place and tested with the NAFO Secretariat and with the Contracting Parties having means of inspection and surveillance in the Regulatory Area, could participate in the pilot project.
3. Evaluation criteria. At the end of the pilot project or more regularly if directed by the Fishery Commission, each Contracting Party should submit a detailed report on the execution of the pilot project containing all necessary information. STACTIC supported by the Executive Secretary should evaluate the results of the pilot project on the basis of the following criteria:
 - Cost / Savings
 - For the industry
 - For the authorities of the Contracting Parties (including those with an inspection presence)
 - For the NAFO Secretariat
 - Interaction with traditional means of control
 - Compliance overall and notably comparison between vessels with and without observers
 - Technical functioning of the Scheme and reliability
4. Implementation and follow-up of the pilot project. Participating Contracting Parties should notify the names of the vessels participating in the pilot project to the NAFO Secretariat. Furthermore each Contracting Party should provide at all times the NAFO Secretariat with the names of the vessels as well as the period during which they have no observer onboard. In the case where an unobserved vessel is found to be engaged in an infringement listed in part IV point 9 of the Scheme, the Contracting Party will apply the provisions of part IV point 10 of the Scheme and, when the vessel is not re-routed, it will embark without delay an observer onboard.

Before such pilot project can be implemented the Fisheries Commission should instruct STACTIC to examine in detail the catch report, observer report and all technical implications as well as to draw up the draft provisions to be included in the NAFO Conservation and Enforcement Measures

Use of Observer Information for Scientific Purposes

The discussion focussed on a paper titled Harmonized NAFO Observer Program Data System Proposal (NAFO SCS Doc. 00/23). This document had been developed by the Scientific Council to define scientific requirements for observer program data.

Contracting Parties agreed on the value of an automated system with common data elements. The representative from the European Union expressed some concerns regarding the potential cost

implications involved in making major changes to existing systems and databases. The Chairman agreed that implementation of the proposal outlined in SCS Doc. 00/23 would require significant investments on the part of Contracting Parties and the NAFO Secretariat. The representative from Canada agreed, but noted that the automation of observer data will be very important if STACTIC is to succeed in carrying out comparative analysis of compliance information in future.

The Chairman stated that this issue, will be brought to the attention of the Fisheries Commission at the annual meeting. They will be made aware of the cost implications, the need for standardization and automation of reports, and the need for integration of scientific and management requirements.

Confidentiality Issues Respecting Data from Automated Hail/VMS System

The representative from Denmark (in respect of Greenland and the Faroe Islands) introduced a proposal for amendments to the Conservation and Enforcement Measures to provide for secure and confidential treatment of electronic reports and messages (STACTIC Working Paper 01/15).

The representative from Canada stated that Canada requires access to VMS data in advance of patrols for patrol planning purposes. It was agreed that the working paper would be amended to reflect that reports and messages will be transmitted to inspection platforms and inspectors not more than 48 hours prior to entry into the Regulatory Area. The amended working paper will be recommended to the Fisheries Commission for adoption.

Improvements to the Automated Hail/VMS System

The Secretariat introduced STACTIC Working Paper 02/6, giving an update regarding implementation of the automated hail/VMS system. Since July, 2001 the Secretariat has been receiving automatic position reports from most Contracting Parties. It was noted that approximately 5% of entries are still being made manually and that some Contracting Parties do not yet have monitoring centres. Changes to the operating system were agreed upon at the Helsingor meeting in January 2002. The estimated cost for implementing those changes is \$10,000 Cdn. This issue will be discussed at the annual meeting of STACFAD in September, 2002.

The Norwegian representative introduced proposed amendments to the Conservation and Enforcement Measures regarding the automated hail/VMS system (STACTIC Working Paper 02/5). The discussion focussed on the need for return messages and the reporting frequency (the Norwegian proposal was for reports every two hours, compared with the current requirement for reports every six hours). Following some discussion, it was agreed that the proposal would be amended to make return messages optional, to maintain the current reporting frequency of six hours and to require manual reports every six hours from vessels experiencing technical failure of the satellite tracking device. The amended working paper will be recommended to the Fisheries Commission for adoption.

5. Review of Compliance

The representative of the European Union introduced STACTIC Working Paper 02/8, describing proposed new terms of reference for STACTIC and a supportive role for the Executive Secretary with regard to the production of an annual report on compliance. Two other documents were also tabled for discussion (FC Working Paper 02/14 by the United States and STACTIC Working Paper 02/12 by Canada).

Following considerable discussion, it was agreed that the main task for this meeting should be to develop a framework that will describe the roles of the various parties and the process for completing an annual review of compliance. A working group was established to draft such a document. The working group presented STACTIC Working Paper 02/14, which describes the type of information to be collected and the role of the Executive Secretary in compiling this data and transmitting it in summary form to Contracting Parties 60 days prior to the annual meeting of STACTIC. It was noted that the sample tables in STACTIC Working Paper 02/14 are subject to further review and amendment if required. On the basis of this information, STACTIC would conduct its review of compliance in connection with the annual meeting. The first compliance review would be based on 2002 data, with the first compliance report to be submitted to the Fisheries Commission at the 2003 annual meeting.

The representative of the European Union noted that although the exercise would include a review on a vessel by vessel basis, the overall objective will be to review compliance on a Contracting Party basis.

It was agreed that the framework proposed in STACTIC Working Paper 02/14 (Revised) will be submitted to the Fisheries Commission for consideration in September 2002.

6. Review of Options for the Control/Avoidance of Incidental Catches

The representative of the European Union introduced STACTIC Working Paper 02/7, a proposal to amend the Conservation and Enforcement Measures with regard to the calculation of by-catches. Two other proposals were later tabled for discussion (STACTIC Working Paper 02/13 presented by Canada and FC Working Paper 02/11 from Denmark, in respect of the Faroe Islands and Greenland).

There was general agreement on the need for clear and easily enforceable rules governing the issues of directed fishery and by-catch. Following discussion of the three proposals, it was agreed that a working group would be formed to draft proposed amendments to the applicable sections of the Conservation and Enforcement Measures.

The representative from Japan stated that the objective of the amendments should be to prevent directed fisheries for moratoria stocks, and that this may not necessarily require amendments to the incidental catch limits. He also questioned whether the term "catch" is meant to include discarded fish and whether discarded fish are to be counted against quotas. The Chairman stated that these questions will be addressed as part of the review of the Conservation and Enforcement Measures.

The representative from Lithuania indicated that he would require more time to review the proposal and is not in a position to support it at this time. Lithuania will provide further comments at the annual meeting in September 2002. This position was supported by the representative from the Russian Federation.

The working group developed STACTIC Working Paper 02/15 (Revised), which proposes to amend the Conservation and Enforcement Measures to add a definition for directed fishery and revise the limits for incidental catches and the method of calculation. It was agreed that these proposed amendments will be submitted to the Fisheries Commission for consideration at the annual meeting in September 2002.

7. Other Business

The European Union representative questioned how inspectors from other Contracting Parties measure larger mesh sizes (in the context of the new 280mm mesh size for skate fisheries). It was agreed that representatives of Canada and the European Union will discuss this issue further.

8. Time and Place of Next Meeting

The next meeting of STACTIC will take place in conjunction with the Annual Meeting, September 2002, in Spain.

9. Adjournment

The meeting adjourned at 1300 on May 9, 2002.

Annex 1. List of Participants

CANADA

Head of Delegation

L. Stowbridge, Director, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 8021 - Fax: +709 772 2046 - E-mail: stowbridgel@dfo-mpo.gc.ca

Advisers

D. Bevan, Director General, Resource Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 6794 – Fax +613 954 1407 – E-mail: bevand@dfo-mpo.gc.ca

W. Evans, Supervisor, Offshore Surveillance, Conservation and Protection, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 4412 - Fax: +709 772 5983 - E-mail: evansw@dfo-mpo.gc.ca

D. Gillett, Counsellor (Commercial), Canadian Embassy, Kr. Bernikowsgade 1, DK-1105 Copenhagen K, Denmark
Phone: +45 33 48 32 50 – Fax: +45 33 48 32 21 – E-mail: david.gillett@dfait-maeci.gc.ca

A. Saunders, Legal Officer, Oceans, Environment and Economic Law Division (JLO), Dept. of Foreign Affairs and International Trade, 125 Sussex Drive, Ottawa, Ontario K1A 0G2
Phone: +613 996 2643 - Fax: +613 992 6483 - E-mail: allison.saunders@dfait-maeci.gc.ca

P. Steele, Director, Enforcement Br., Conservation and Protection, Fisheries Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 0109 – Fax +613 941 2718 – E-mail: steelep@dfo-mpo.gc.ca

R. Steinbock, Senior Advisor, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
Phone: +613 993 1836 - Fax: +613 993 5995 - E-mail: steinbob@dfo-mpo.gc.ca

B. Luscombe-Thomsen, Business Development Officer, Canadian Embassy, Kr. Bernikowsgade 1, DK-1105 Copenhagen K, Denmark
Phone: +45 33 48 32 56 – Fax: +45 33 48 32 21 – E-mail: Bernadette.luscombe-thomsen@dfait-maeci.gc.ca

B. Whelan, Head, NAFO Unit, Conservation and Protection, Fisheries Management, Newfoundland Region, Department of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 0928 – Fax: +709 772 0008 – E-mail: whelanb@dfo-mpo.gc.ca

DENMARK (IN RESPECT OF THE FAROE ISLANDS AND GREENLAND)

Head of Delegation

M. T. Nedergaard, Fiskerilicensinspektør, Head of Unit, Gronlands Fiskerilicenskontrol, Postbox 501, DK-3900 Nuuk, Greenland
Phone: +299 345377 - Fax: +299 323235 - E-mail: mads@gh.gl

Alternate

J. H. Toftum, Ministry of Fisheries, P. O. Box 347, FO-110 Torshavn, Faroe Islands
Phone: +298 353030 - Fax: +298 353035 - E-mail: jenst@fisk.fl.fo

Advisers

K. Hansen, Ministry of Fisheries, Yviri við Strond 17, P. O. Box 347, FO-110 Torshavn, Faroe Islands
Phone: +298 353035 – Fax: +298 313981 – E-mail: KjaHa@fisk.fo

M. Kruse, Fisheries Inspection, Yviri við Strond 17, P. O. Box 347, FO-110 Torshavn, Faroe Islands
Phone: +298 311065 – Fax: +298 313981 – E-mail: mk@vb.fo

ESTONIA**Head of Delegation**

R. Hirmo, Estonian Environmental Inspectorate, Kopli 76, Tallinn 10416
 Phone: +372 69 92 223 – Fax +372 69 62 237 – E-mail: Reigo.Hirmo@kki.ee

Adviser

I. Ulla, Environmental Protection Inspector, Estonian Environmental Inspectorate, Kopli 76, Tallinn 10416
 Phone: +372 69 62 244 – Fax +372 69 62 237 – E-mail: Indrek.Ulla@kki.ee

EUROPEAN UNION**Head of Delegation**

H. Koster, Chief of Unit (Inspection), European Commission, Directorate General for Fisheries, Rue de la Loi 200/Wetstraat 200, B-1049 Brussels, Belgium
 Phone: +32 2 295 0235 – Fax: +32 2 296 2338 – E-mail: Harm.Koster@cec.eu.int

Alternate

S. Ekwall, Administrator, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
 Phone: +32 2 299 6907 - Fax: +32 2 295 5700 - E-mail: Staffan.Ekwall@cec.eu.int

Advisers

M. Newman, European Commission, Directorate General for Fisheries, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
 Phone: +32 2 295 7449 – Fax: +32 2 296 2338 – E-mail: martin.newman@cec.eu.int

L. H. Pedersen, Fisheries Inspector, European Commission, Directorate General for Fisheries, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
 Phone: +32 2 295 0645 – Fax: +32 2 296 2338 – E-mail: lars.pedersen@cec.eu.int

C. Frøik, Administrateur Principale, , Council of the European Union, DG-BIII-Fisheries, Rue de la Loi 175, B-1048 Brussels, Belgium
 Phone: +32 2 285 6381 - Fax: +32 2 285 6910 - E-mail: christian.froik@consilium.eu.int

M. I. Aragon, Jefa Seccion de la Subdireccion General de Organismos Multilaterales de Pesca, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
 Phone: +34 91 4025000 - Fax: +34 91 3093967 - E-mail: iaragonc@mapya.es

M. Mancebo, Subdireccion General de Organismos Multilaterales de Pesca, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
 Phone: +34 91 3476176 - Fax: +34 91 3476049

M. Rios Cidras, Subdireccion General de Organismos Multilaterales de Pesca, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
 Phone: +34 91 3471946 - Fax: +34 91 3471512 – E-mail: mrioscid@mapya.es

ICELAND**Head of Delegation**

K. Arnason, Head of Division, Ministry of Fisheries, Skulagata 4, 150 Reykjavik
 Phone: +354 560 9670 – Fax: +354 562 1853 – E-mail: kolbeinn.arnason@sjr.stjr.is

Advisers

H. Steinarsson, The Icelandic Directorate of Fisheries, Ingilfsstraeti, 150 Reykjavik
 Phone: +354 5697900 - Fax: +354 5697991 - E-mail: hostein@hafro.is
 G. Geirsson, Icelandic Coast Guard, P. O. Box 7120, 127 Reykjavik
 Phone: +354 545 2000 – Fax: +354 545 2001 – E-mail: gylfi@lhg.is

JAPAN**Head of Delegation**

Y. Sakamoto, Deputy Director, Far Seas Fisheries Div., Fisheries Agency, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8907

Adviser

N. Takagi, Director, Executive Secretary, Japan Deep Sea Trawlers Association, Ogawacho-Yasuda Bldg., 6 Kanda-Ogawacho, 3-Chome, Chiyoda-ku, Tokyo 101-0052
 Phone: +81 33 291 8508 – Fax: + 81 33 233 3267 – E-mail: jdsta-takagi@msg.biglobe.ne.jp

LITHUANIA**Head of Delegation**

G. Babcionis, Chief Specialist, Fisheries Department under the Ministry of Agriculture, 19 Gedimino str., Vilnius 2600
 Phone: +370 02 391180 – Fax: + 370 02 341176 – E-mail: genadijusb@zum.lt

NORWAY**Head of Delegation**

T. Lobach, Senior Legal Adviser, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
 Phone: +47 55 23 80 00 – Fax: +47 55 23 80 90 – E-mail: terje.lobach@fiskeridir.dep.no

Alternate

S.-A. Johnsen, Head of Section, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
 Phone: +47 55 23 80 00 – Fax: +47 55 23 80 90 – E-mail: postmottak@fiskeridir.dep.no

RUSSIAN FEDERATION**Head of Delegation**

B. F. Prischepa, Head of Department, “MURMANRYBVOD”, Kominterna 5 str., 183038 Murmansk
 Phone: +7 8152 458679 – Fax: +47 789 10676 – E-mail: mvr@an.ru

Advisers

V. E. Agalakov, Chief Inspector of “MURMANRYBVOD”, Kominterna 5 str., 183672 Murmansk
 Phone: +7 8152 453562 – Fax: +47 789 10217 – E-mail: mvr@an.ru
 Y. A. Piskarev, Russian Fisheries Representative, Embassy of the Russian Federation, Kristianiagade 5, 2100 Copenhagen, Denmark
 Phone: +45 3542 5585/86 – Fax: +45 3542 3741 – E-mail: fis.comm@mail.tele.dk
 A. A. Romanov, Director, All-Russia Research and Design Institute for Economics, Information and Automated Management Systems of Fisheries-VNIERKH, 4/2, B. Spasoglinishchevskii per., Moscow, 101990
 Phone: +7 095 928 00 88 – Fax: +7 095 925 47 31 – E-mail: romanov@ncmc.ru

114

A. N. Zhukov, ZAPBALTRYBVOD, Kizova 15 str., 236000 Kaliningrad
Phone: +7 0112 55 53 11 – Fax: +7 0112 55 53 11 – E-mail: zapad@oaokt.Bytecity.ru

UNITED STATES OF AMERICA

Head of Delegation

J. Anderson, Fisheries Management Specialist, Northeast Region, National Marine Fisheries Service, U.S.
Department of Commerce, 1 Blackburn Dr., Gloucester, MA 01930
Phone: +978 281 9226 - Fax: 978-281-9135 - E-mail: jennifer.anderson@noaa.gov

Adviser

P. Martin, Lieutenant Commander, Coast Guard Liaison Officer, Office of Marine Conservation (Rm
5806), U.S. Department of State, 2201 C Street NW, Washington, D.C. 20520
Phone: +202 647 3177 - Fax: +202 736 7350 - E-mail: pmartin@comdt.uscg.mil

SECRETARIAT

T. Amaratunga, Assistant Executive Secretary
B. J. Cruikshank, Senior Secretary
G. Moulton, Statistical/Conservation Measures Officer

SECRETARIAT ASSISTANCE

M. Hansen, Greenland Home Rule Office, Copenhagen

Annex 2. Agenda

1. Opening of the Meeting
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Review of the NAFO Observer/VMS Scheme
 - a) Use of observer information for scientific purposes
 - b) Review of performance of Automated Hail/VMS System
 - c) Evaluation of options to modify the observer/VMS Scheme
 - i) Effectiveness
 - ii) Benefits/Costs
 - d) Confidentiality issues respecting data received as a result of the Automated Hail/VMS System (discussion at Ad hoc group)
 - e) Improvements to the Automated Hail/VMS System (at Ad hoc group)
5. Review of Compliance
 - a) Framework for evaluation of compliance
 - b) Data sources, timeframes/formats for submission of data
 - c) Schedule of future work/meetings
6. Review of options for the control/avoidance of incidental catches
 - a) Measures for the control of incidental catches
 - b) Possible options with identified impacts for consideration by the Fisheries Commission
7. Other Matters
8. Time and Place of Next STACTIC Meeting
9. Adjournment

**Annex 3. Summary of Responses to STACTIC W.P. 02/10
(STACTIC W.P. 02/16)**

| Question | Canada | Den – Faroes | Den – Greenland |
|----------|---|---|--|
| 1 | Government-contracted third party | Faroese Fishery Control (FFC) | Greenland Fisheries Licence Control Authority (GFLK) |
| 2 | Third party requiring screening qualification and security checks | FFC | Newspaper ads and personal recommendations |
| 3 | Marine experience: navigational, fishing gear, biological and enforcement | Marine experience: navigational, fishing gear, etc. | Knowledge of fishery, navigational skills, etc. |
| 4 | 20 day training | Short course on enforcement and scientific data | 8-10 weeks fishery regulations, additional sampling and 1 year trainee |
| 5 | Successful completion of exam after training | Must complete courses | Training at Fishing School + authorized institutions. |
| 6 | Yes | Yes | Yes |
| 7 | Prohibited from monetary gain from fishing industry | Authorized and employed by FFC | Employed and paid by GFLK |
| 8 | Yes | Yes | Yes |
| 9 | Yes | No | Yes |
| 10 | Yes | No | Yes (some administrative delays) |
| 11 | Yes (DFO) | No (FFC) | Yes (GFLK) |
| 12 | When catch is landed | When catch is landed | Landing of completed catch |
| 13 | Yes | No information on infringements received | Yes |
| 14 | Data package for fishery, contractor check tasks | Briefing and preparation by FFC | All observers are called in for briefing and debriefing |
| 15 | Yes | Yes | Available but not used |
| 16 | Yes | Yes (in terms of content) | Yes (also logbook) |
| 17 | Yes/also by FMC | No | Yes with the FMC |
| 18 | Yes | Yes | Yes |
| 19a | Deployment of patrol aircraft to closure of fishery | If infringements are identified case will be investigated | Vessel is inspected and observer and master questioned |
| 19b | Less serious offence observers consult with supervisor | - | Port inspection and if infringements, special report for legal action |
| 19c | Violations entered into violation database | - | Basis for administrative warnings, etc. |
| 19d | Used as witnesses | - | Administrative legal warnings |
| 20 | \$300/day + travel | 1,800,000 Dkr | ? |
| 21 | Government – groundfish/ Industry – shrimp | Government | GFLK |
| 22 | 10-800,000 per year + additional 5,000,000 military | N/A | N/A |
| 23 | - | N/A | Improved catch reporting |
| 23 | For NRA no violations since prior to 1998. | N/A | Logbook catches more accurate and reliable. |

Note: "Question" refers to Addendum 2 (to Annex 5).

| Question | Estonia | EU | Iceland |
|----------|--|---|--|
| 1 | Environmental Inspectorate | Contracts observer providers through public tender | Icelandic Directorate of Fisheries |
| 2 | Must pass training course | N/A | Vacancy announcement by Government rules |
| 3 | Physically/mentally capable. Fisheries, marine or biological experience favorable. | Background as fishery inspector, navigation, marine biology | Desired assets experience as Captains or officers of fishing vessels |
| 4 | Based on Canadian Observer Manual | N/A | Short course on CEM by Directorate + Research Institute for scientific samples |
| 5 | 3-4 weeks training course + tested on completion | In accordance with NAFO Scheme, EU inspectors check if not, not-employed. | Must complete courses |
| 6 | Yes | Yes | Yes (voluntary basis) |
| 7 | No relationship to company or representatives of vessel owners | Declaration stating no financial or other relations with fishing industry | No relations to the vessel |
| 8 | Yes | Yes (EU Member States) | Yes |
| 9 | Yes | Yes | Yes |
| 10 | Yes (some delays) | No (Service Provider then NAFO) | Yes (as of 2002) |
| 11 | Yes (Environmental Inspectorate) | Yes (EU Commission + Member States) | Yes (Directorate of Fisheries) |
| 12 | Observer's departure and return | Observer's departure and return | From harbour to harbour |
| 13 | Yes | Yes | Yes (to Directorate then to NAFO) |
| 14 | Briefed on special requirements, etc. debriefed on any unusual activities, etc. | Service provider does the briefing and debriefing | Briefed and debriefed by the Sea Surveillance Dept. |
| 15 | Yes (Estonian Marine Institute) | Available but seldom used | Yes |
| 16 | Yes | Yes | Not consistently and improvements being made |
| 17 | Yes | Yes | Yes |
| 18 | Yes | Yes with few exceptions | Yes |
| 19a | Data compared to logbooks and if any differences master contacted immediately | Reports are checked for infringements and inspection authorities are informed | This would be done on case by case basis. |
| 19b | - | Service Provider send provisional information to Commission weekly | - |
| 19c | - | Corrective action on basis of inspection | - |
| 19d | - | Information used for policy making | - |
| 20 | 150,000 Euro/year; State budget | 2,075,332 Euro/year; Community budget | Approx 200 USD by vessel owner |
| 21 | N/A | 2,500,000 Euro; 2.2 Community budget; 3 Spain | N/A |
| 22 | N/A | See EU review | N/A |
| 23 | N/A | 32 infringements | N/A |

Note: "Question" refers to Addendum 2 (to Annex 5).

| Question | Japan | Lithuania | Norway |
|----------|---|--|--|
| 1 | Public-service by Government | Department of Fisheries | Contracted Canadian company (Seawatch) |
| 2 | Introduced by research institutes | Completed training courses | Advertised competition by Seawatch |
| 3 | Knowledge and experience with respect to fishery and biology | Requirements for recruitment of observers now in preparation | Marine experience, navigation, fishing gear, biological and enforcement training. |
| 4 | Observer training project by Government | Training standards in preparation | 3 weeks training |
| 5 | Must pass exam and practice for observer | - | Exam and certification |
| 6 | Yes | Yes | Yes |
| 7 | Observer jobs only and employed by Public Service | Perform only duties described in CEM | Independent company no links to shipowners or crew |
| 8 | Yes | Yes plus others that are certified | No |
| 9 | Yes | Yes (some missing due to reorganization) | Yes |
| 10 | Yes | Not all | Yes |
| 11 | Yes (Fisheries Agency of Japan) | Yes (Fisheries Dept.) | Yes (Directorate of Fisheries) |
| 12 | Leaving port to arrival at port | Observer to and from vessel | Time spent in Regulatory Area |
| 13 | ? | No such case | Yes |
| 14 | Briefing once a year | Briefing at Fisheries Department | Directorate informs Seawatch of requirements & Seawatch checks that duties were performed. |
| 15 | Yes (stock assessment) | Yes (but not used) | Not on a regular basis |
| 16 | Yes | All requirements except scientific | Yes (some complaints on handwriting) |
| 17 | No | Yes | No (responsibility of FMC) |
| 18 | Yes | Yes | Yes |
| 19a | Position, catch effort, by-catch, etc. | Irregularities are discussed and owners must make changes | Evaluation and possible reaction by legal office. If infringement is detected master must explain. |
| 19b | Noon position, set & hauling position, etc. | - | Authorities decide on action & report to NAFO |
| 19c | Compare observer rpt. With catch report. If different correct or improve. | - | |
| 19d | Correct reports: suspend fishing or move | - | |
| 20 | 10,000,000 yen/person/year (?) | Owners are responsible to pay through Fisheries Department | 340 Cnd + travel + daily allowances; paid by shipowners |
| 21 | 17,000,000 yen for satellite tracking system | - | N/A |
| 22 | See Japanese comment | - | N/A |
| 23 | 1 master did not completely understand CEM | Answer later | Observer 1; Inspections 4 (2 are questionable) |

Note: "Question" refers to Addendum 2 (to Annex 5).

| Question | Russia | USA |
|----------|--------|--|
| 1 | | US Government |
| 2 | | Universities and periodicals which target interested individuals |
| 3 | | University degree in biological science or fishery management |
| 4 | | Intensive 2-week training |
| 5 | | Must pass 4 written exams |
| 6 | | Yes (but not currently fishing) |
| 7 | | No connection or interests in fishing industry |
| 8 | | Yes |
| 9 | | N/A |
| 10 | | N/A |
| 11 | | N/A |
| 12 | | N/A (entry & departure from NRA) |
| 13 | | N/A |
| 14 | | N/A |
| 15 | | N/A (yes for domestic) |
| 16 | | N/A |
| 17 | | N/A (yes for domestic) |
| 18 | | N/A |
| 19a | | N/A |
| 19b | | N/A |
| 19c | | N/A |
| 19d | | N/A |
| 20 | | N/A (estimate \$550 US per day – Government paying) |
| 21 | | N/A |
| 22 | | N/A |
| 23 | | N/A |

Note: "Question" refers to Addendum 2 (to Annex 5).

**Annex 4. Summary of Responses to STACTIC W.P. 02/11
(STACTIC W.P. 02/17)**

| Question | Canada | Faroes | Greenland | Estonia | EU | Iceland | Japan | Lithuania | Norway | Russia | USA |
|----------|-------------------------------------|------------------------------------|----------------------|---------------------|----------------------|--------------|-------------------------|-----------------------------------|---------------------------------------|--|-----|
| 1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| 2 | 6 hrs | 1 hr | 1 hr | 6 hrs | 6 hrs | 1 hr | 1.5 -2.0 hrs | Technical problems with FMC | 1 hr | 1 hr | |
| 3a | Yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | Yes | |
| 3b | yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | No | |
| 3c | yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | Yes | |
| 3d | Course/speed | Course/speed | Course/speed | Speed | Optional | Course/speed | Course/speed | - | Course/speed | No | |
| 4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | Yes | |
| 5 | Must leave area | Repair at port before next trip | ←Same | ←Same | ←Same | ←Same | Reserve unit + ←Same | - | Repair at port before next trip | Repair within 10 days or go to port | |
| 6 | No | 24 hrs | 24 hrs | 24 hrs | 24 hrs | 12 hrs | 24 hrs | - | 12 hrs | 6 hrs | |
| 7 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | Yes | |
| 8 | 12 hrs (2) | 1 hr | 1 hr | 6 hrs | 6 hrs | 6 hrs | 6 hrs | - | 6 hrs | 6hrs | |
| 9 | Yes | Yes | Yes (NEAFC) | Yes | Yes | Yes | Yes | - | Yes | No | |
| 10 | Yes | N/A | N/A | N/A | Yes | N/A | N/A | - | N/A | N/A | |
| 11a | 1500-2000Cnd | 24,000 Dkr | 4500 Euro | 150,000 Euro | 3,300 Euro | 3,000 US | 300,000- 400,000 Yen | Will answer later | 6000 Cnd | - | |
| 11b | 0.25-0.50 Cnd | 1500 US /month | 2Euro/day/ vessel | 20,000 Euro/year | Approx. 0.20 Euro | 0.45 US | 980 Yen/day | | 100 Cnd | - | |
| 11c | 10,000 hardware 20,000 yearly | N/A | 35,000 Euro | 15,000 Euro/year | >150,000 Euro | - | 17,000,000 Yen/year | | 100,000 Cnd | - | |

Note: "Questions" refers to Addendum 4 (to Annex 5)

Annex 5. Review of the Observer Scheme and Vessel Monitoring System (VMS)
(STACTIC Working Paper 02/18, Revised)

Introduction

A Pilot Project for a NAFO Observer and VMS Scheme (Part VI of the Conservation and Enforcement Measures) came in force in 1995. There were several modifications of the Project. The Program for Observers and Satellite Tracking was modified and adopted by the Fisheries Commission at the 22nd Annual Meeting, September 2000.

According to the provisions of the Conservation and Enforcement Measures (Part VI.A), the Program was introduced to improve and maintain compliance with the Conservation and Enforcement Measures by the vessels fishing in the Regulatory Area. A 100% coverage is required for all vessels fishing in the Regulatory Area, and this is a binding measure for all Contracting Parties except for Iceland pursuant to the Article XII of the NAFO Convention. As of January 1st 2001 VMS became mandatory for all contracting party vessels fishing in the NAFO Regulatory Area (NRA). Both the observer scheme and the VMS are subject to review at any time and on the instructions of the Fisheries Commission are to be reviewed in 2002 to provide the Fisheries Commission with information needed to aid them in making decisions regarding the two programs.

The NAFO Secretariat conducted preliminary reviews of the Observe Scheme and the VMS in order to aid STACTIC in conducting a more thorough review in 2002 of the two programs. The results of this review are contained in tables 1, 2, and 3 attached.

With respect to observers, the major "shall" functions of observers are following:

- a) monitor a vessel's compliance with the relevant Conservation and Enforcement Measures:
 - i) record and report upon the fishing activities of the vessel and verify the position of the vessel when engaged in fishing;
 - ii) observe and estimate catches with a view to identifying catch composition and monitoring discards, by-catches and the taking of undersized fish;
 - iii) record the gear type, mesh size and attachments employed by the master;
 - iv) verify entries made to the logbooks (species composition and quantities, round and processed weight and hail reports).
- b) collect catch and effort data on a set-by-set basis. (location, depth, time of net on the bottom, catch composition and discards) and the data on discards and retained undersized fish as outlined in the protocol developed by the Scientific Council.
- c) carry out such scientific work (for example, collecting samples) as requested by the Fisheries Commission based on the advice of the Scientific Council;
- d) provide a report to the Contracting Party of the vessel and to the Executive Secretary (within 30 days following completion of an assignment on a vessel).

The Fisheries Commission adopted the Scientific Council proposal "Harmonized NAFO Observer Program Data System Proposal" (SCS Doc. 00/23) during 22nd Annual Meeting, September 2000.

This proposal, as adopted, has not been incorporated in the NAFO Conservation and Enforcement Measures. Under the "Harmonized NAFO Observer Program Data System", the Contracting Parties should carry-on their national observer programs according to the recommended forms and formats contained in the Scientific Council proposal. As the follow-up of the Scientific Council intervention on this matter, there were several substantial recommendations by the Council in the following terms (June 2001 Meeting):

- to modify the Conservation and Enforcement Measures (Part VI, 3b and 3d) with the note that "the Conservation and Enforcement Measures are inconsistent with the Scientific Council protocols adopted by the Fisheries Commission in 2000" (this refers to SCS Doc. 00/23);
- to develop a training and operation manual for the collection of scientific data;
- the observer program "Access database" developed by Canada be adopted by the NAFO Secretariat to capture data collected under the NAFO Observer Program;
- the Secretariat is asked to develop cost estimates required for accomplishment of this task for inclusion in the 2002 budget.

These recommendations include several substantive issues, which, if adopted, should generate concrete actions by the Fisheries Commission, NAFO Contracting Parties and the NAFO Secretariat based on two documents: *NAFO Conservation and Enforcement Measures* and *SCS Doc. 00/23*.

The legal status of those two documents is very different from the point of view of commitments and implementation. The traditional constitutional way to carry out NAFO management decisions has been through the incorporation of clearly identified regulatory measures in the NAFO Conservation and Enforcement Measures with full understanding and acceptance by Contracting Parties. Accordingly, if the measure is in force and binding through adoption by the Fisheries Commission, this would imply to approve and implement a policy or proposal, and in such a case, the full significance of the proposal (motion, subject matter, etc.) would have been determined and technique of implementation would have been agreed.

Considering the Contracting Parties observers' reports presented to the Secretariat, this policy in application to the scientific task has not been fully recognized and/or implemented.

With respect to the VMS system, from July 2001, the NAFO Secretariat had started receiving Automatic Position Reports from various Contracting Parties. These messages were automatically entered into the NAFO data base and copies were forwarded to a mailbox for Contracting Parties with an inspection presence in the NAFO Regulatory Area to retrieve on a 24 hour a day, 7 days a week basis.

There were several briefing letters circulated by the Secretariat (GF/01-524, July 2001, GF/01-627, Sept. 2001, GF/01-655, Sept. 2001, GF/01-669, Sept. 2001, GF/01-733, Oct. 2001, GF/01-788, Nov. 2001) asking Contracting Parties to finalize their commitments under this program.

As can be seen in the attached table, there are currently 10 Contracting Parties or Member States which are sending automatic reports to the new system. There are, however, still manual entries which have to be inputted to the database but these would average approximately 5% of all messages received.

During the Helsingør Meeting, January 2002, there were discussions and recommendations for changes to be made to the operating system to make it more compatible with those being used in NEAFC. The Secretariat has obtained cost estimates for these changes from the system provider and the agreed changes would be in the range of \$10,000.00 Cdn. This cost will be higher if other changes that were proposed but not agreed upon are to be implemented. There is currently no budget item for these changes and this will have to be taken to STACFAD at the Annual Meeting to be held this coming September.

Tables 1-3 were extracted from STACTIC W.P. 02/04 and 02/06. In addition to these tables, Addendum 1 contains notes regarding the observer scheme that have been extracted from W.P. 02/4.

STACTIC agreed to modify the framework used in 1998 to conduct the review of these programs. STACTIC agreed to use the following framework for the review:

- Contracting Parties will respond to the questions in Addendum 2 regarding the observer scheme. The answers will be forwarded to the NAFO Secretariat by June 15, 2002.
 - Preliminary responses are summarized in Addendum 3. Individual Contracting Party responses are attached in Addendum 6.
- Contracting Parties will respond to the questions in Addendum 4 regarding the VMS. The answers will be forwarded to the NAFO Secretariat by June 15, 2002
 - Preliminary responses are summarized in Addendum 5. Individual Contracting Party responses are attached in Addendum 6.
- The NAFO Secretariat will review the responses for completeness and identify any gaps in the information received to the Contracting Parties involved. The Secretariat will contact those Contracting Parties that have been identified as having gaps in their information with the objective of obtaining the needed information.
- Contracting Parties with an inspection presence in the NRA are to provide updated costs in Canadian dollars for traditional surveillance covering the years 1998, 1999, 2000 and 2001, to the secretariat by June 15, 2002.
- All Contracting Parties will review their responses to the questions and will provide the NAFO Secretariat, by June 15, 2002, with cost estimates in Canadian dollars for the years 1998, 1999, 2000, and 2001 for the observer scheme and VMS
- The NAFO Secretariat will update table 4 (1998 version attached) based on the information received from the Contracting Parties.
- The NAFO Secretariat will update tables 5, 6, and 7 (1998 versions attached) based on the best available information. The Secretariat will be assisted by Contracting Parties with an inspection presence in the area in completing this task.
- STACTIC will review the resulting information and determine if it is complete and accurate
- Once satisfied with the information available, STACTIC, will evaluate the two programs using, as appropriate, the evaluation framework summary table established in 1998 (Table 8) and provide a report on the results of the evaluation to the Fisheries Commission.

**Table 1. Summary/Contents of National Observer Reports
(2000-2001) (Annex 1 W.P. 02/4)**

| Contracting Party | monitor vessels' compliance: | | | | Effort Data | Scientific data*** | Reports % (delivered to the Secretariat) | |
|---------------------------------|------------------------------|---------|----------|----------|-------------|--------------------|--|----------|
| | fishing activities | catches | gear | logbooks | | | 2000 | 2001 |
| Canada | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | 100 | 100 |
| Cuba | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | 100 | 100 |
| Denmark: Faroes Greenland | ✓ ✓ | ✓ ✓ | ✓ N/A | ✓ N/A | ✓ N/A | N/A N/A | 12 72 | 8 100 |
| Estonia | ✓ | ✓ | N/A | ✓ | ✓ | N/A | N/A | 100 |
| EU | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | 100 | 100 |
| France-SPM | not fishing | | | | | | | |
| Iceland* | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | 100 | 100 |
| Japan | ✓ | ✓ | N/A | ✓ | ✓ | N/A | 100 | 100 |
| Korea | not fishing | | | | | | | |
| Latvia | ✓ | ✓ | N/A | ✓ | ✓ | N/A | 75 | 100 |
| Lithuania | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | 15 | 72 |
| Norway | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | 100 | 100 |
| Poland | ✓ | ✓ | N/A | N/A | N/A | N/A | 100 | N/A |
| Russia** | ✓ | ✓ | ✓ | N/A | N/A | N/A | 57 | 40 |
| Ukraine | not fishing | | | | | | | |
| USA | not fishing | | | | | | | |

Notes:

N/A – not available

* Reports from Iceland are presented in Icelandic only (and we presume those corroborate with observer duties)

** Reports from Russian vessels are presented by Russian observers and several Canadian nationals (which have more complete form according to Canadian requirements)

*** "Scientific data" refer to information according to the protocol developed by the Scientific Council.

| Contracting Party | Vessels fishing in the RA 2000 | Observer Reports | Vessels fishing In the RA 2001 | Observer Reports |
|-------------------|--|--|--|--|
| Iceland | Askur Baldur Arni Bliki Eldborg Orri Petur Jonsson Rauoinupur Sunna | yes yes yes yes yes yes yes yes | Askur Baldur Arni Petur Jonsson Rauoinupur Sunna | yes yes yes yes yes |
| Total: | 8 | 8 | 5 | 5 |
| Japan | Anyo Maru No. 7 Shinkai Maru | yes yes | Anyo Maru No. 7 Zuiho Maru No. 88 | yes yes |
| Total: | 2 | 2 | 2 | 2 |
| Latvia | Arnarborg Atlass Freija Otto | yes yes yes | Arnarborg Freija Otto | yes yes yes |
| Total: | 4 | 3 | 3 | 3 |
| Lithuania | Cape Circle Cape Ice Maironis Sekme Svalbakur Treimani Utena | yes | Anuva Atlas Eyborg Maironis Neringa Radvila Sekme Treimani Utena Zunda | yes yes yes yes yes yes yes yes yes yes |
| Total: | 7 | 1 | 10 | 8 |
| Norway | Ingar Iversen Nordoybas Nordstar Olympic Prawn Polaris Volstad Viking | yes yes yes yes yes yes | Ingar Iversen J. Bergvoll Juvel Koralen Nordoytral Ocean Trawler Olympic Prawn Remoy Fjord Remoy Viking Saevking Tonsnes Volstad Viking | yes yes yes yes yes yes yes yes yes yes yes yes |
| Total: | 6 | 6 | 12 | 12 |
| Poland | Esther | yes | Myrdoma | |
| Total: | 1 | 1 | 1 | 0 |
| Russia | Andrey Markin Bizon Bootes Dimas Eyborg Gornostaevka Granat | yes yes yes yes yes | Amerlog Andrey Pashkov Andvari Bizon Dimas Eyborg Gemeny | yes yes yes yes |

| Contracting Party | Vessels fishing in the RA 2000 | Observer Reports | Vessels fishing In the RA 2001 | Observer Reports |
|--------------------------|---------------------------------------|-------------------------|---------------------------------------|-------------------------|
| Russia (cont'd) | Kadri | yes | Granat | yes |
| | Kapitan Naumov | yes | Kapitan Naumov | yes |
| | Kobrin | yes | Kobrin | |
| | Maroanjoca | yes | Maroanjoca | yes |
| | Matrioska | yes | Matrioska | yes |
| | Merak | yes | Mozdok | |
| | Mozdok | | Murman | yes |
| | Murman | yes | Nikolay Afanasyev | |
| | Obva | | Obva | |
| | Odoevsk | | Okeanator | |
| | Okeanator | | Olchan | |
| | Olchan | yes | Olga | |
| | Olga | | Oma | |
| | Onezhskiy | | Onezhskiy | |
| | Oyra | | Polessk | yes |
| | Polessk | | Semenovsk | |
| | Semenovsk | yes | Sevryba-1 | |
| | Stakfell | | Tynda | yes |
| | Tynda | yes | Vest Rumb | yes |
| | Vest Rumb | yes | Vityza | |
| | Viking | yes | Vyshgorod | |
| Total: | 28 | 16 | 28 | 11 |

Table 3. Status report of NAFO automated HAIL/VMS activities up to April 18, 2002

| Contracting Party | Tested OK | Entry | Move | Trans-zonal | Tranship-ment | Exit | Position |
|--------------------|------------|-----------|-----------|-------------|---------------|-----------|-----------|
| Bulgaria | NA | - | - | - | - | - | - |
| Canada | 22/08/01 | automatic | | | | automatic | automatic |
| Cuba | Unable | | | | | | |
| Den.-Faroe Islands | 10/09/01 | automatic | automatic | | | automatic | automatic |
| Greenland | 12/07/01 | | | | | | |
| Estonia | 29/11/01 | manual | manual | | | manual | automatic |
| E.U.-Denmark | 21/08/01 | | | | | | |
| France | No reply | | | | | | |
| Germany | 08/02/02 | | | | | | |
| Great Britain | No reply | | | | | | |
| Portugal | 10/08/01 | manual | manual | | | manual | |
| Spain | 25/10/01 | manual | manual | manual | | | automatic |
| France SPM | No contact | | | | | | |
| Iceland | 07/07/01 | manual | | | | manual | automatic |
| Japan | 29/08/01 | automatic | automatic | | | automatic | automatic |
| Korea | No reply | | | | | | |
| Latvia | No contact | manual | manual | | | manual | automatic |
| Lithuania | No contact | manual | | | | manual | |
| Norway | 07/07/01 | automatic | | | | automatic | automatic |
| Poland | 27/09/01 | automatic | automatic | | | | automatic |
| Romania | NA | - | - | - | - | - | - |
| Russia | 18/07/01 | automatic | manual | | | automatic | automatic |
| Ukraine | Ongoing | manual | manual | | | manual | |
| U.S.A. | Ongoing | | | | | | |

**Table 4. Estimated Cost of Surveillance – NAFO Regulatory Area
(Based on 1996 information)**
(previously Table 2, FC Doc. 98/13, Part II, Annex 2)

| CONTRACTING PARTY | Secretariat | Norway | Denmark | Canada | Luxembourg | USA | Switzerland | Japan | Estonia | Iceland | EU | Rest of World | Average |
|---|-------------|------------|------------|---------------|------------|------------|-------------|------------|------------|------------|--------------|---------------|---------------|
| | 9718 | 9011,9112 | 9173,9175 | 9079,9102 | 9112 | 9129 | 9814 | 9176 | 9117 | 9179 | 9173,9174 | | |
| Reference Documents | | | | | | | | | | | | | |
| Satellite Tracking Technology | | | | | | | | | | | | | |
| Capital | \$ 21,000 | \$ 105,000 | | | \$ 12,000 | \$ 70,000 | \$ 27,000 | | \$ 24,000 | \$ 200,000 | | | \$ 449,000 |
| Operating Costs | \$ 4,000 | \$ 20,000 | | \$ 165,000 | \$ 4,000 | \$ 20,000 | \$ 1,000 | | \$ 8,000 | \$ 24,000 | \$ 500,000 | | \$ 733,000 |
| Operations Center | | | | | | | \$ 20,000 | | | | | | \$ 20,000 |
| Other | \$ 5,000 | | | | \$ 2,000 | | | | \$ 3,000 | | | | \$ 10,000 |
| Observer Coverage | | | | | | | | | | | | | |
| Operating Costs (Based on 1996) | | \$ 400 | \$ 388 | \$ 260 | \$ 260 | \$ 262 | \$ 200 | \$ 500 | \$ 260 | \$ 318 | \$ 200 | | \$ 3,658 |
| Traditional Surveillance | | | | | | | | | | | | | |
| Vessels | | | | \$ 2,600,000 | | | | | | | \$ 2,300,000 | | \$ 6,100,000 |
| Aircraft | | | | \$ 1,500,000 | | | | | | | | | \$ 6,000,000 |
| Administration | | | | \$ 1,500,000 | | | | | | | \$ 160,000 | | \$ 1,660,000 |
| Total Inspections | | | | 278 | | | | | | | 97 | | 375 |
| Cost/Inspection | | | | \$ 5,396 | | | | | | | \$ 24,000 | | \$ 43,896 |
| Number of Vessels (WGT. W/IN 98%) | | 16 | 6 | 3 | 3 | 3 | 15 | 2 | 8 | 28 | 47 | | 141 |
| Number of Observer and Fishing Days (WGT. W/IN 97%) | | 1555 | 172 | 179 | 171 | 1882 | 1882 | 320 | 1586 | 5664 | 1613 | | 19002 |
| Total costs | | | | | | | | | | | | | |
| Satellite Technology | | | | | | | | | | | | | |
| One Time | \$ 21,000 | \$ 105,000 | | | \$ 12,000 | \$ 70,000 | \$ 27,000 | | \$ 24,000 | \$ 200,000 | | | \$ 449,000 |
| Annual | \$ 11,000 | \$ 20,000 | | \$ 165,000 | \$ 6,000 | \$ 20,000 | \$ 21,000 | | \$ 11,000 | \$ 24,000 | \$ 500,000 | | \$ 703,000 |
| Observer Coverage | \$ 400,000 | \$ 388,000 | \$ 260,000 | \$ 260,000 | \$ 260,000 | \$ 262,000 | \$ 200,000 | \$ 500,000 | \$ 260,000 | \$ 318,000 | \$ 200,000 | | \$ 6,078,000 |
| Traditional Surveillance | | | | \$ 6,000,000 | | | | | | | \$ 2,300,000 | | \$ 13,293,000 |
| | | | | \$ 10,000,000 | | | | | | | \$ 2,483,000 | | \$ 897 |

1. Costs for NAFO Secretariat based on satellite technology at headquarters
2. Some Contracting Parties exceeded the 35% satellite requirement
3. Fishing days for some Contracting Parties decreased in 1997
4. Canadian vessel surveillance excludes military vessel support (estimated at \$5.0M)

Table 5.
(previously Table 3, FC Doc. 98/13, Part II, Annex 2)

| | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| OBSERVER RELEVANT | | | | | | |
| Recording of Catch | 6 | 1 | 7 | 15 | 17 | 19 |
| Incidental Catch Limits | 1 | | | | | |
| Quota (includes conducting a directed fishery when a ban on fishing in effect) | 2 | 3 | | 10 | 11 | 2 |
| Retaining Undersize fish | | | 3 | 10 | 4 | |
| Gear: Mesh size, chafers, straps, sorting straps | 1 | 8 | 2 | 19 | 23 | 13 |
| Catch record discrepancy | 1 | 1 | 4 | 14 | 4 | 5 |
| Hail system | 2 | 4 | 8 | 20 | 18 | 32 |
| SUBTOTAL | 13 | 17 | 24 | 88 | 77 | 71 |
| NOT OBSERVER RELEVANT | | | | | | |
| Documentation | 7 | 8 | 9 | 27 | 25 | 21 |
| Failure to carry observer | | 3 | | | | |
| Other: Improper boarding ladder, Refusal/interference with Inspection | 3 | 6 | 5 | 4 | 3 | 2 |
| SUBTOTAL | 10 | 17 | 14 | 31 | 28 | 23 |
| GRAND TOTAL | 23 | 34 | 38 | 119 | 105 | 94 |

Table 6. Number of fishing vessels, fishing effort, inspections and observer relevant Apparent Infringements, 1993-1997

(previously Table 4, FC Doc. 98/13, Part II, Annex 2)

| Year | F/vessels | FN effort | PN effort | Inspections | Infringements Obs. Related |
|------|-----------|-----------|-----------|-------------|-------------------------------|
| 1993 | 233 | 23,352 | 548 | 518 | 77 |
| 1994 | 181 | 22,816 | 647 | 628 | 88 |
| 1995 | 189 | 23,842 | 556 | 343 | 24 |
| 1996 | 169 | 17,157 | 514 | 375 | 17 |
| 1997 | 101 | 12,473 | 536 | 350 | 13 |

Table 7. Inspections and fishing days/observer relevant infringement and fishing days/patrol vessel day

(previously Table 5, FC Doc. 98/13, Part II, Annex 2)

| Year | Insp/AIN | Fday/AIN | Fday/PV day |
|-------------|-----------------|-----------------|--------------------|
| 1993 | 6.7 | 303 | 42.6 |
| 1994 | 71 | 259 | 35.2 |
| 1995 | 14.3 | 993 | 42.8 |
| 1996 | 22 | 1009 | 33.4 |
| 1997 | 26.9 | 959 | 23.3 |

Source of Information:

NAFO Secretariat based on hail and surveillance reports from Contracting Parties.

Table 8. Evaluation Framework Summary Table
(previously Table 1, FC Doc. 98/13, Part II, Annex 2)

| | Pilot Project Compliance Measures | | | | | | | | | | Traditional methods of control (*) | | | | |
|------------------------------|-----------------------------------|----------|---------------------|----------|---|-----------------|----------|---------------------|---|---|------------------------------------|----|---------------------|---------------------|----------|
| | Satellite Tracking | | | | | Observer Scheme | | | | | Relevance | | Efficacy/Efficiency | | |
| Management Measures | Relevance | | Efficacy/Efficiency | | | Relevance | | Efficacy/Efficiency | | | Relevance | | Efficacy/Efficiency | | |
| | YES | NO | H | M | L | YES | NO | H | M | L | YES | NO | H | M | L |
| Fishing location | Y | | H | | | Y | | H | | | Y | | H | | |
| Fishing activities | | | | | | | | | | | | | | | |
| No. of operation | Y | | No Consensus | | | Y | | H | | | Y | | | | L |
| Time in the area | Y | | H | | | Y | | H | | | Y | | H | | |
| Fishing Time | Y | | | M | | Y | | H | | | Y | | | | L |
| Gear used | | N | | | | Y | | H | | | Y | | | M | |
| Catch retained | | | | | | | | | | | | | | | |
| By species | | N | | | | Y | | H | | | Y | | | No Consensus | |
| By live weight | | N | | | | Y | | H | | | Y | | | M | |
| Discards | | | | | | | | | | | | | | | |
| Juveniles | | N | | | | Y | | H | | | Y | | | | L |
| By-catches | | N | | | | Y | | H | | | Y | | | | L |
| High-grading | | N | | | | Y | | H | | | Y | | | | L |
| Processing | | | | | | | | | | | | | | | |
| By species | | N | | | | Y | | H | | | Y | | | M | |
| By presentation | | N | | | | Y | | H | | | Y | | | M | |
| By production weight | | N | | | | Y | | H | | | Y | | | M | |
| Landing/Transshipment | | | | | | | | | | | | | | | |
| Port/Location | Y | | H | | | Y | | H | | | Y | | H | | |
| Quantities Landed | | N | | | | | N | | | | Y | | H | | |

Efficiency/Efficacy – H(High), M(Medium), L(Low)

*Traditional means: fishing and processing logbook, landing/transshipment declaration, sightings and inspections at sea (either by vessel or aircraft), hail-system and communication of catches, single mesh size, inspection ashore, etc.

1. Bolded ratings reflect consensus view, subject to explanatory notes.
2. Shaded areas reflect no consensus on efficiency/efficacy.

No. of operations (satellite tracking) - Efficiency/efficacy dependant on number and frequency of transmissions.

Catch retained by species (traditional) - Efficiency/efficacy subject to level of surveillance and fishery (shrimp versus multiple species).

Table 8. (cont'd)

| Explanatory Notes | | |
|---------------------------------|------------------------------|---|
| <u>Management Measure</u> | <u>Contracting Party</u> | <u>Note</u> |
| Catches retained on board | Denmark (Faroes & Greenland) | Observers assumed 100% effective. |
| No. of Operations | European Union | Satellite Tracking – Moderate, depending on number of positions per day. |
| Gear Used | European Union | Includes mesh size and sorting grid. |
| | Canada | Traditional – High during inspections. |
| Discards | European Union | Evaluation of discards goes beyond simple enforcement effectiveness. |
| Landing/Transshipments | EU/Norway | No transshipments observed. |
| Port/Location | EU | Observer-High, but not included in observer duties. |
| Efficiency/Efficacy (Observer) | Iceland | Overall – Not in terms of cost efficiency. |
| | | Fishing location – High, in respect of accuracy but this is not real time location so it will not support inspection control. |
| | | Juveniles – Not relevant for shrimp fishery. |
| Efficiency/Efficacy (Satellite) | Iceland | By-catches, high-grading and Processing by species – High, but not significant issue in shrimp fishery. |
| | | All fishing activities (excluding gear used) – High, but due to low coverage, potential efficiency does not equal actual efficiency. |
| | | Fishing time – High, can be obtained by calculation of vessel speed, although variable or lower speed may not necessarily indicate fishing. |

| | | |
|-----------------------------------|---|--|
| Efficiency/Efficacy (Traditional) | Iceland | May be improved through enhanced use of electronic data exchange. |
| Efficiency/Efficacy (Traditional) | Canada | Dependent on level of surveillance by platform type (aircraft, patrol vessel, dockside monitoring) |
| Overall | Iceland, Norway, Denmark (Faroes & Greenland) | Evaluation based on experience in the shrimp fishery only. |

Addendum 1. Performance of the NAFO Program for Observers (and Satellite Tracking)

The following are brief notes from the Secretariat:

Canada: reports are in a detailed format of standardized tables reflecting all requirements under the Observer Program. The text is handwritten and sometimes not easy to read, which would be unacceptable for electronic reprocessing of data. No scientific data presented.

Cuba: reports are in very detailed format based on set by set (trawl) fishing activity. The text is handwritten and not easy to read, which would be unacceptable for electronic reprocessing of data. No scientific data presented.

Denmark: *Faroes*: reports are in accurate typed-in straight forward format, which would be practical to apply for electronic/scanning tally of fishery/scientific data. No scientific data presented. *Greenland*: reports are in a specific format of questionnaire tables, which do not completely reflect on observer duties. No scientific data presented.

Estonia: reports are in a format of logbook print-outs and do not completely reflect on observer duties. No scientific data presented.

European Union: reports are in a well-structured format with typed-in text and complete information, which could be applied in electronic/scanning techniques. No scientific data presented.

Iceland: reports are in Icelandic language and structured in a unified table. No scientific data presented.

Japan: reports are in a format of logbook print-outs and do not completely reflect on observer duties. No scientific data presented.

Latvia: reports are in a format of "set by set" data and do not completely reflect on observer duties. No scientific data presented.

Lithuania: reports are in a comprehensive set of tables with typed-in information. No scientific data presented.

Norway: reports are in good elaborate format of comprehensive tables. However, all records in a handwritten form and not easy to read, especially, if this information would go to electronic reprocessing. No scientific data presented.

Poland: reports in a restricted (1-2 pages) format with limited reflections on observer duties and fishing activities. No scientific data presented.

Russia: reports presented by Russian observers are in a limited descriptive format, which do not completely reflect on observer duties. Canadian observers deployed on Russian vessels provide their reports in the Canadian format as noted above. No scientific data presented.

**Addendum 2. Review of the NAFO Observer/VMS Scheme
(STACTIC W.P. 02/10, Revised)**

Further to the 1998 evaluation of the Observer and Satellite Tracking Program STACTIC has reviewed the questions asked at that time and has revised the questions as follows:

Questions:

1. Who employs the observers?
2. How are they recruited?
3. What are the qualifications required for observer recruits?
4. What are the training standards?
5. How is the training delivered and what is the process for verifying that observers have successfully completed training?
6. Is the 100% coverage requirement being adhered to? i.e. are observers deployed to all vessels fishing in the Regulatory Area?
7. How do the observers meet all requirements regarding independence and impartiality?
8. Are observers nationals of the flag state of the vessel?
9. Are all observer reports submitted to the NAFO Secretariat?
10. Are observer reports submitted to the Secretariat within 30 days of completion of the trip?
11. Are all observer reports submitted to officials of the Contracting Party? Who receives the reports?
12. How is the term "trip" defined by the Contracting Party?
13. Are observer reported infringements reported to NAFO inspection vessels within 24 hours?
14. What are the procedures for briefing and de-briefing observers prior to and following trips to sea?
15. Are the observer reports available to scientists, and to what extent do they make use of the reports?
16. Do the observer reports meet all of the requirements set out in the Conservation and Enforcement Measures, in terms of content and format?
17. Do observers report on the functioning of satellite tracking systems?
18. Have observers been provided with suitable accommodations, board and cooperation from fishing vessels masters and crews?
19. What procedures are in place for the Contracting Party to follow up on observer reports which identify irregularities/infringements?
 - What analysis is conducted?
 - What reports are prepared?
 - How are the reports/analysis used to take corrective action?
 - What corrective action is taken?
20. What are the costs of deploying observers? Who is responsible for paying these costs?
21. What are the costs in Canadian dollars in 1998, 1999, 2000 and 2001 of traditional enforcement methods? What number of boardings and sightings were achieved each year?
22. What level of compliance is indicated by the observer reports? i.e. how many potential cases of non-compliance have been detected by observers and how many infringements have been detected by traditional means of inspection in 1998, 1999, 2000 and 2001? What were the nature of the infringements detected?

**Addendum 3. Abbreviated responses to questions on NAFO Observer/
VMS Scheme (STACTIC W.P. 02/16)**

| Question | Canada | Den – Faroes | Den – Greenland |
|-----------------|---|---|--|
| 1 | Government-contracted third party | Faroes Fishery Control (FFC) | Greenland Fisheries Licence Control Authority (GFLK) |
| 2 | Third party requiring screening qualification and security checks | FFC | Newspaper ads and personal recommendations |
| 3 | Marine experience: navigational, fishing gear, biological and enforcement | Marine experience: navigational, fishing gear, etc. | Knowledge of fishery, navigational skills, etc. |
| 4 | 20 day training | Short course on enforcement and scientific data | 8-10 weeks fishery regulations, additional sampling and 1 year trainee |
| 5 | Successful completion of exam after training | Must complete courses | Training at Fishing School + authorized institutions. |
| 6 | Yes | Yes | Yes |
| 7 | Prohibited from monetary gain from fishing industry | Authorized and employed by FFC | Employed and paid by GFLK |
| 8 | Yes | Yes | Yes |
| 9 | Yes | No | Yes |
| 10 | Yes | No | Yes (some administrative delays) |
| 11 | Yes (DFO) | No (FFC) | Yes (GFLK) |
| 12 | When catch is landed | When catch is landed | Landing of completed catch |
| 13 | Yes | No information on infringements received | Yes |
| 14 | Data package for fishery, contractor check tasks | Briefing and preparation by FFC | All observers are called in for briefing and debriefing |
| 15 | Yes | Yes | Available but not used |
| 16 | Yes | Yes (in terms of content) | Yes (also logbook) |
| 17 | Yes/also by FMC | No | Yes with the FMC |
| 18 | Yes | Yes | Yes |
| 19a | Deployment of patrol aircraft to closure of fishery | If infringements are identified case will be investigated | Vessel is inspected and observer and master questioned |
| 19b | Less serious offence observers consult with supervisor | - | Port inspection and if infringements, special report for legal action |
| 19c | Violations entered into violation database | - | Basis for administrative warning, etc. |
| 19d | Used as witnesses | - | Administrative legal warnings |
| 20 | \$300/day + travel | 1,800,000 Dkr | ? |
| | Government – groundfish/ Industry – shrimp | Government | GFLK |
| 21 | 10,800,000 per year + additional 5,000,000 military | N/A | N/A |
| 22 | - | N/A | Improved catch reporting |
| 23 | For NRA no violations since prior to 1998. | N/A | Logbook catches more accurate and reliable. |

| Question | Estonia | EU | Iceland |
|----------|--|---|--|
| 1 | Environmental Inspectorate | Contracts observer providers through public tender | Icelandic Directorate of Fisheries |
| 2 | Must pass training course | N/A | Vacancy announcement by Government rules |
| 3 | Physically/mentally capable. Fisheries, marine or biological experience favorable. | Background as fishery inspector, navigation, marine biology | Desired assets experience as Captains or officers of fishing vessels |
| 4 | Based on Canadian Observer Manual | N/A | Short course on CEM by Directorate + Research Institute for scientific samples |
| 5 | 3-4 weeks training course + tested on completion | In accordance with NAFO Scheme, EU inspectors check if not, not-remployed. | Must complete courses |
| 6 | Yes | Yes | Yes (voluntary basis) |
| 7 | No relationship to company or representatives of vessel owners | Declaration stating no financial or other relations with fishing industry | No relations to the vessel |
| 8 | Yes | Yes (EU Member States) | Yes |
| 9 | Yes | Yes | Yes |
| 10 | Yes (some delays) | No (Service Provider then NAFO) | Yes (as of 2002) |
| 11 | Yes (Environmental Inspectorate) | Yes (EU Commission + Member States) | Yes (Directorate of Fisheries) |
| 12 | Observer's departure and return | Observer's departure and return | From harbour to harbour |
| 13 | Yes | Yes | Yes (to Directorate then to NAFO) |
| 14 | Briefed on special requirements, etc. debriefed on any unusual activities, etc. | Service provider does the briefing and debriefing | Briefed and debriefed by the Sea Surveillance Dept. |
| 15 | Yes (Estonian Marine Institute) | Available but seldom used | Yes |
| 16 | Yes | Yes | Not consistently and improvements being made |
| 17 | Yes | Yes | Yes |
| 18 | Yes | Yes with few exceptions | Yes |
| 19a | Data compared to logbooks and if any differences master contacted immediately | Reports are checked for infringements and inspection authorities are informed | This would be done on case by case basis. |
| 19b | - | Service Provider send provisional information to Commission weekly | - |
| 19c | - | Corrective action on basis of inspection | - |
| 19d | - | Information used for policy making | - |
| 20 | 150,000 Euro/year; State budget | 2,075,332 Euro/year; Community budget | Approx 200 USD by vessel owner |
| 21 | N/A | 2,500,000 Euro; 2.2 Community budget; 3. Spain | N/A |
| 22 | N/A | See EU review | N/A |
| 23 | N/A | 32 infringements | N/A |

| Question | Japan | Lithuania | Norway |
|----------|---|--|---|
| 1 | Public-service by Government | Department of Fisheries | Contracted Canadian company (Seawatch) |
| 2 | Introduced by research institutes | Completed training courses | Advertised competition by Seawatch |
| 3 | Knowledge and experience with respect to fishery and biology | Requirements for recruitment of observers now in preparation | Marine experience, navigation, fishing gear, biological and enforcement training. |
| 4 | Observer training project by Government | Training standards in preparation | 3 weeks training |
| 5 | Must pass exam and practice for observer | - | Exam and certification |
| 6 | Yes | Yes | Yes |
| 7 | Observer jobs only and employed by Public Service | Perform only duties described in CEM | Independent company no links to shipowners or crew |
| 8 | Yes | Yes plus others that are certified | No |
| 9 | Yes | Yes (some missing due to reorganization) | Yes |
| 10 | Yes | Not all | Yes |
| 11 | Yes (Fisheries Agency of Japan) | Yes (Fisheries Dept.) | Yes (Directorate of Fisheries) |
| 12 | Leaving port to arrival at port | Observer to and from vessel | Time spent in Regulatory Area |
| 13 | ? | No such case | Yes |
| 14 | Briefing once a year | Briefing at Fisheries Department | Directorate informs Seawatch of requirements & Seawatch checks that duties were performed. |
| 15 | Yes (stock assessment) | Yes (but not used) | Not on a regular basis |
| 16 | Yes | All requirements except scientific | Yes (some complaints on handwriting) |
| 17 | No | Yes | No (responsibility of FMC) |
| 18 | Yes | Yes | Yes |
| 19a | Position, catch effort, by-catch, etc. | Irregularities are discussed and owners must make changes | Evaluation and possible reaction by legal office. If infringement is detected master must explain . |
| 19b | Noon position, set & hauling position, etc. | - | Authorities decide on action & report to NAFO |
| 19c | Compare observer rpt. With catch report. If different correct or improve. | - | |
| 19d | Correct reports; suspend fishing or move | - | |
| 20 | 10,000,000 yen/person/year (?) | Owners are responsible to pay through Fisheries Department | 340 Cnd + travel + daily allowances; paid by shipowners |
| 21 | 17,000,000 yen for satellite tracking system | - | N/A |
| 22 | See Japanese comment | - | N/A |
| 23 | 1 master did not completely understand CEM | Answer later | Observer 1; Inspections 4 (2 are questionable) |

| Question | Russia | USA |
|----------|--------|--|
| 1 | | US Government |
| 2 | | Universities and periodicals which target interested individuals |
| 3 | | University degree in biological science or fishery management |
| 4 | | Intensive 2-week training |
| 5 | | Must pass 4 written exams |
| 6 | | Yes (but not currently fishing) |
| 7 | | No connection or interests in fishing industry |
| 8 | | Yes |
| 9 | | N/A |
| 10 | | N/A |
| 11 | | N/A |
| 12 | | N/A (entry & departure from NRA) |
| 13 | | N/A |
| 14 | | N/A |
| 15 | | N/A (yes for domestic) |
| 16 | | N/A |
| 17 | | N/A (yes for domestic) |
| 18 | | N/A |
| 19a | | N/A |
| 19b | | N/A |
| 19c | | N/A |
| 19d | | N/A |
| 20 | | N/A (estimate \$550 US per day – Government paying) |
| 21 | | N/A |
| 22 | | N/A |
| 23 | | N/A |

**Addendum 4. Questions to each Contracting Party on the application of VMS
(STACTIC W.P. 02/11, Revision 2)**

1. Are all your vessels equipped with VMS?
2. What is the frequency of messages sent by vessels to the FMC?
3. Do the messages contain:
 - Vessel identification?
 - Most recent position of the vessel?
 - Date and time of the fixing of the position?
 - Other data elements? If yes, please specify.
4. Is the FMC equipped with the appropriate computer hardware and software to process the transmissions automatically?
5. In the event of equipment failure, what are the obligations to repair or replace the equipment and how soon must such repairs/replacement be made?
6. Do vessels with defective VMS equipment communicate reports to the FMC, and if so with what frequency?
7. Are VMS reports communicated to NAFO?
8. What is the frequency of the transmission of such reports to the NAFO Secretariat?
9. Are the reports and messages in accordance with the VMS position report format?
10. Do inspection vessels in the Regulatory Area receive the VMS reports from the NAFO Secretariat?
11. What are the costs of the system for:
 - Installation of the equipment?
 - Transmissions?
 - FMC (hardware/software and day to day management)?
12. Is the ship borne VMS installation (ALC) a dedicated VMS-unit or is it a part of the vessels communication system?
13. Is the ALC an intelligent terminal with memory which transmit status information to the FMC such as power failure, antenna failure (disconnection), satellite loss and non-communicated messages?
14. What is the general experience about the stability of the VMS system and units and what has been the main problem?
15. Have there been any attempts of tampering with the ALC?

Addendum 5. Abbreviated Responses to Questions on the Application of VMS (STACTIC W.P. 02/17)

| Question | Canada | Faroes | Greenland | Estonia | EU | Iceland | Japan | Lithuania | Norway | Russia | USA |
|----------|-------------------------------|---------------------------------|------------------|------------------|-------------------|--------------|-----------------------|-----------------------------|---------------------------------|-------------------------------------|-----|
| 1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| 2 | 6 hrs | 1 hr | 1 hr | 6 hrs | 6 hrs | 1 hr | 1.5-2.0 hrs | Technical problems with FMC | 1 hr | 1 hr | |
| 3a | Yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | Yes | |
| 3b | yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | No | |
| 3c | yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | Yes | |
| 3d | Course/speed | Course/speed | Course/speed | Speed | Optional | Course/speed | Course/speed | - | Course/speed | No | |
| 4 | speed | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | Yes | |
| 5 | Must leave area | Repair at port before next trip | ← Same | ← Same | ← Same | ← Same | Reserve unit + ← Same | - | Repair at port before next trip | Repair within 10 days or go to port | |
| 6 | No | 24 hrs | 24 hrs | 24 hrs | 24 hrs | 12 hrs | 24 hrs | - | 12 hrs | 6 hrs | |
| 7 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | Yes | |
| 8 | 12 hrs (2) | 1 hr | 1 hr | 6 hrs | 6 hrs | 6 hrs | 6 hrs | - | 6 hrs | 6 hrs | |
| 9 | Yes | Yes | Yes (NEAFC) | Yes | Yes | Yes | Yes | - | Yes | No | |
| 10 | Yes | N/A | N/A | N/A | Yes | N/A | N/A | - | N/A | N/A | |
| 11a | 1500-2000C and | 24,000 Dkr | 4500 Euro | 150,000 Euro | 3,300 Euro | 3,000 US | 300,000-400,000 Yen | Will answer later | 6000 Cnd | - | |
| 11b | 0.25-0.50 Cnd | 1500 US /month | 2Euro/day/vessel | 20,000 Euro/year | Approx. 0.20 Euro | 0.45 US | 980 Yen/day | | 100 Cnd | - | |
| 11c | 10,000 hardware 20,000 yearly | N/A | 35,000 Euro | 15,000 Euro/year | >150,000 Euro | - | 17,000,000 Yen/year | | 100,000 Cnd | - | |

**Addendum 6. Individual Contracting Party Responses to Questions
in STACTIC W.P. 10 (Rev.) and STACTIC W.P. 11 (Rev.)**

The individual responses submitted by Contracting Parties to the questions in STACTIC W.P. 10 (Rev.) and STACTIC W.P. 11 (Rev) are herewith attached.

**Review of NAFO Observer/VMS Scheme
STACTIC Questionnaire
Canadian Response**

| QUESTIONS | ANSWERS |
|--|--|
| Observer | |
| 1. Who employs the observers? | <p>The observers are employed by a Government-contracted (Department of Fisheries and Oceans through the Department of Public Works and Government Services) third party company, primarily Seawatch Ltd of St. John's, Newfoundland. Seawatch Ltd has been providing observer coverage in Canada since 1978.</p> <p>Two other companies provide observer coverage to the Government of Canada in the provinces of Nova Scotia, New Brunswick, Quebec, and Prince Edward Island. These companies are also authorized to provide observer coverage in the NAFO Regulatory Area.</p> |
| 2. How are they recruited? | Observers are hired by the third party companies through advertised competition requiring screening, qualification and security checks. See attachment #1. |
| 3. What are the qualifications required for observer recruits? | Qualifications are outlined in the attachment #1 but include, for example, as mandatory requirements, the ability to pass DFO security clearance, Canadian citizenship or landed immigrant status, mobility and availability on short notice and willingness to remain at sea for extended periods, ability to write technical reports and, as desirable requirements, related maritime experience, experience in use of navigational aids and fishing gear, knowledge of foreign languages, and biological research and/or enforcement training and experience. |
| 4. What are the training standards? | Observers are required to participate in a 20-day training session. The training syllabus is subject to the approval of DFO. See attachment #2. Classroom and on-site (wet-lab) training is provided. Qualified instructors provide training on various aspects of the course syllabus. |
| 5. How is the training delivered and what is the process for verifying that observers have successfully completed training? | Refer to previous response. Successful completion of an examination is required at the end of the training session. Certification requirements are specified in Section 39.1 of the Fishery General Regulations. See attachment #3. |
| 6. Is the 100% coverage requirement being adhered to? i.e. are observers deployed to all vessels fishing in the Regulatory Area? | <p>Yes. Canada requires all vessels fishing groundfish or shrimp in the NRA to carry an observer. The requirement is outlined as a mandatory condition of each fishing licence.</p> <p>However, in 2001, two vessel operators were detected by Canadian surveillance in the NRA without observers onboard.</p> |

| | |
|---|---|
| | <p>On May 10, 2001 the vessel Canadian Navigator was observed by aerial surveillance steaming in the NAFO Regulatory Area. On May 12, 2001 this vessel was inspected in port where it was determined that the vessel had fished in the NRA for a short period. The master was charged under the Fisheries Act for failing to hail entry/exit and for failing to carry an observer. The master appeared in court on August 24, 2001 and plead not guilty. The matter is awaiting trial.</p> <p>On July 30, 2001 the vessel Eastern Mariner was observed by aerial surveillance fishing in the NAFO Regulatory Area. The master was charged under the Fisheries Act for failing to hail entry/exit and for failing to carry an observer. The matter is awaiting trial.</p> |
| 7. How do the observers meet all requirements regarding independence and impartiality? | <p>There are specific legislative requirements that prohibit an observer from holding a certificate of accreditation issued under the Professional Fish Harvesters Act or a fisher's registration card; from purchasing fish for the purpose of resale; and from owning, operating, managing, or being employed of/by an enterprise that catches, cultures, processes or transports fish. See attachment #4.</p> <p>As well, observers are supplied through a third party contract. Under Canadian law, these contracts must be at arm's length from government, i.e the government cannot enter into personal services relationship with observer and must contract through a designated employment company. There are also conflict of interest guidelines for observers that prohibit employment by fishing industry during periods between deployments.</p> |
| 8. Are observers nationals of the flag state of the vessel? | Yes, all observers deployed on Canadian vessels are Canadian citizens. |
| 9. Are all observer reports submitted to the NAFO Secretariat? | Yes. |
| 10. Are observer reports submitted to the Secretariat within 30 days of completion of the trip? | Yes. |
| 11. Are all observer reports submitted to officials of the Contracting Party? Who receives the reports? | Yes, the observer reports are submitted by the Contractor to the Coordinator, Observer Program, Department of Fisheries and Oceans. |
| 12. How is the term "trip" defined by the Contracting Party? | A fishing trip to the NAFO Regulatory Area concludes when a vessel lands its catch. |
| 13. Are observer reported infringements reported to NAFO inspection vessels within 24 hours? | Yes, observer reported infringements (which have been incorporated into the Canadian Fisheries Act) are reported immediately to a Canadian Fishery Officer. |
| 14. What are the procedures for briefing and de-briefing observers prior to and | Prior to any observer deployment, DFO indicates to the contractor the requirements of a particular fishery. On this basis, the contractor provides the observer with a detailed briefing on the anticipated fishery. All regulatory and |

| | |
|--|---|
| following trips to sea? | scientific requirements for the deployment are discussed. The observer is given a “data-package” outlining the type of information to be collected on the deployment as well as the frequency with which this information will be provided to DFO. Upon completion of the deployment, the results of the trip are discussed by the observer and contractor to ensure all tasks were completed and any issues were identified. |
| 15. Are the observer reports available to scientists, and to what extent do they make use of the reports? | Yes, all observer data is forwarded to Canadian scientists for review and assessment and is entered into a database. This information is used by Canadian scientists at annual Scientific Council meetings. |
| 16. Do the observer reports meet all of the requirements set out in the Conservation and Enforcement Measures, in terms of content and format? | Yes, Observer reports meet all requirements including: <ul style="list-style-type: none"> (i) record of fishing activities of the vessel and verification of the position of the vessel; (ii) estimates of catch identifying composition and discards, by-catches and undersized fish; (iii) record of gear type, mesh size and attachments; (iv) verification of logbooks (species composition/quantities, round/processed weight); (v) catch and effort data on a set-by-set basis including latitude/longitude, depth, catch composition and discards; (vi) record of sampling; (vii) submission, within 30 days following completion of an assignment, of a written report. |
| 17. Do observers report on the functioning of satellite tracking systems? | Yes, although, in recent months, this responsibility is generally completed by the FMC. |
| 18. Have observers been provided with suitable accommodations, board and cooperation from fishing vessels masters and crews? | Yes, observers are generally provided best available accommodations and receive good cooperation. In instances where non-cooperation is observed, the matter is investigated by Fishery Officers and, where appropriate, charges are laid. |
| 19. What procedures are in place for the Contracting Party to follow up on observer reports which identify irregularities/infringements? <ul style="list-style-type: none"> ▪ What analysis is conducted? ▪ What reports are prepared? ▪ How are the reports/analysis used to take corrective action? ▪ What corrective action is taken? | <p>Occurrence reports are forwarded to the Department of Fisheries and Oceans during the deployment period for all contraventions of the Fisheries Act (which has incorporated the provisions of the Conservation and Enforcement Measures), either on an immediate basis for serious offences or as part of the weekly report for less serious offences.</p> <p>When a report of a serious offence is received, the Department of Fisheries & Oceans will respond through a variety of methods ranging from deployment of patrol aircraft or vessels to closure of fisheries.</p> <p>When a report of a less serious offence is received, a Fishery Officer will be assigned to investigate the matter, establish a violation file, and conclude the matter in consultation with his/her supervisor.</p> |

| | |
|---|--|
| | In all cases, observer-reported violations are entered into the Departmental Violation System (DVS database). Observers are used as witnesses, often the primary witness, for charges stemming from observer reports. |
| 20. What are the costs of deploying observers? Who is responsible for paying these costs? | The cost of observers is approximately \$300/day + travel expenses. Generally, costs are billed to the owner/operator although, on occasion, observer coverage is government-funded. For example, government covers the costs of observer coverage on groundfish vessels operating in the NAFO Regulatory Area. Industry covers the cost for shrimp vessels fishing in Division 3M. |
| What are the costs of traditional enforcement methods? | The approximate cost of traditional surveillance is \$10.8M/year, exclusive of military support estimated at an additional \$5.0M. |
| 22. What are the results of observer coverage, VMS coverage, and other traditional control methods as evaluated as per NAFO FC 98/3, Annex 4. | |
| 23. What level of compliance is indicated by the observer reports? i.e. how many infringements have been detected by observers and traditional means of inspection over the 4 year period 1998-2001? | There is a high level of compliance indicated by observer reports. For the NRA, no observer reported violations have been identified since prior to 1998. |
| VMS | |
| 1. Are all your vessels equipped with VMS? | Yes, for all vessels that fish groundfish or shrimp in the NRA. Canadian vessel owners have a choice obtaining one of three unique VMS equipment packages, all of which meet DFO requirements. |
| 2. What is the frequency of messages sent by vessels to the FMC? | The messages are automatically sent every 6 hours but can be changed upon a request from FMC. |
| 3. Do the messages contain: <ul style="list-style-type: none"> ▪ Vessel identification? ▪ Most recent position of the vessel? ▪ Date and time of the fixing of the position? ▪ Other data elements? If yes, please specify. | The current messages send include: <ul style="list-style-type: none"> a. Vessel name b. Side Number c. Call sign d. Position (latitude/Longitude) (decimal degrees) e. Date and Time f. Course and Speed |
| 4. Is the FMC equipped with the appropriate computer hardware and | Canada's FMC is equipped with a desktop computer capable of providing automated message in the formats outlined under the NAFO Conservation and Enforcement Measures. |

| | |
|---|---|
| software to process the transmissions automatically? | The messages are reviewed twice a day for accuracy and forwarded to NAFO Secretariat by an FTP process. |
| 5. In the event of equipment failure, what are the obligations to repair or replace the equipment and how soon must such repairs/replacement be made? | Canadian vessel masters are required by condition of licence to comply with the following; <u>VESSEL MONITORING SYSTEMS (VMS)</u> 1. Effective January 1, 2001, vessels fishing groundfish and shrimp in the NAFO Regulatory Area (NRA) shall be equipped with an electronic monitoring system approved by DFO, transmitting positional information at least once every 6 hours. 2. The master shall ensure that the electronic monitoring system is fully operational and in use at all times while fishing in the NRA. 3. The master shall not alter or tamper with any part of the electronic monitoring system, or destroy, dispose of, or remove the electronic monitoring system or associated electronic records or storage media. |
| 6. Do vessels with defective VMS equipment communicate reports to the FMC, and if so with what frequency? | No, the vessels are required to have an operational Vessel Monitoring System onboard and are not permitted in the NAFO Regulatory Area if it is not operational. |
| 7. Are VMS reports communicated to NAFO? | All VMS reports are provided to the NAFO Secretariat via the FTP protocols as specified by the Secretariat. However, on one occasion in 2002, the vessel monitoring system malfunctioned at the FMC (service provider) and positional data was lost for a period of two days on one vessel. |
| 8. What is the frequency of the transmission of such reports to the NAFO Secretariat? | The position records are forwarded to the NAFO Secretariat twice daily but include records on 6 hour intervals. |
| 9. Are the reports and messages in accordance with the VMS position report format? | The FMC is setup to produce the NAFO VMS records in the formats outlined under the NAFO Conservation and Enforcement Measures Part III E. |
| 10. Do inspection vessels in the Regulatory Area receive the VMS reports from the NAFO Secretariat? | Canadian Inspection Vessels are provided surveillance data on a daily basis via e-mail or fax. |
| 11. What are the costs of the system for: <ul style="list-style-type: none"> ▪ Installation of the equipment? ▪ Transmissions? ▪ FMC (hardware/software and day to day management)? | The system costs are approximately: Installation of the equipment - \$1500-2000 Transmissions - \$0.25-0.50/message FMC (hardware/software and day to day management) - \$10,000 hardware, \$20,000 annually. |

OBSERVER STATEMENT OF QUALIFICATIONS**Mandatory Qualifications**

- Ability to pass DFO security clearance to the Enhanced Reliability level.
- Canadian citizen or landed immigrant status.
- Good health and physical condition.
- Not prone to motion sickness.
- Mobility and availability on short notice and willingness to remain at sea for extended periods.
- Minimum of successful completion of secondary education.
- Ability to write technical reports.
- Ability to complete computer and narrative data forms.
- In possession of valid foreign travel documents.
- Be bondable.
- Mature, responsible and capable of working independently.
- Proficiency in English.

Desirable Qualifications

- Related maritime experience, preferable onboard a commercial fishing vessel.
- Experience in use of navigational aids and fishing gear.
- Knowledge of foreign languages
- Familiarity with major fisheries and fishing methods used.
- Biological research and/or enforcement training and experience.
- Marine Emergency Duties (MED) certificate.

FISHERIES OBSERVER TRAINING COURSE OUTLINE

Acts and Regulations

- Overview of Acts and Regulations
- Structural Organization of Fisheries Regulations
- Referencing Acts and Regulations
- Relevance of Regulations to Observers
- Amendment Process

Fisheries Management

- Necessity of Fisheries Regulations
- The Objectives of Fisheries Management
- Regulatory Measures
- Licenses
- Management and Conservation Harvesting Plans

Fishing Gear

- Trawl Nets
- Longlines
- Gillnets
- Purse Seining
- Trap Nets
- Weirs
- Tended Lines
- Harpoons
- Jigging
- Trolling
- Crab Nets
- Sablefish Trap
- Lobster Traps
- Scallop Rakes
- Clam Dredge
- Legislation and Conditions of License Respecting Fishing Gear

Vessel Operations and Requirements

- Daily Vessel Operations
- Navigation
- Production
- Safety
- Logbooks

Sampling and Fisheries Science

- Fish Populations
- Fisheries Science
- Species Identification
- Sampling Methodology
- Special Requirements

Catch and Effort

- Catch and Effort
- Catch Estimation
- Determining Catch Composition

- Discard Estimation
- Estimates from Monitoring Production
- Bycatch Regulations
- Small Fish Protocol
- Enforcement and Management Issues Regarding Catch

Operational Procedures

- Observer Duties
 - Professionalism and Objectivity
 - Situation Reports
 - Communication Procedures
 - Trip Report
 - Time Management
 - Daily Note Taking
 - Irregularities
 - Courtroom Presentation
 - Briefing and De-briefing
-
- Fishing Vessel Types
 - Vessel Operations
 - Species Identification Features
 - Species Length Measurements
 - Internal Anatomy

Fishery (General) Regulations
Certificate of Designation

39.1 (1) The Regional Director-General may designate as an observer any corporation that has submitted

(a) a description of a program that is capable of accurately collecting and compiling information obtained by individual observers in the course of their duties under paragraph 39(2)(b) and that includes

(i) a business plan for the corporation that describes the organization of the corporation, its human resources and its plan of operations,

(ii) a plan for the training and independent examination of individuals who will be designated as observers to perform the duties described in paragraph 39(2)(b), and for the supervision of those observers, and

(iii) a quality control system for ensuring the integrity of the information collected and compiled that identifies a person responsible for the system and his or her duties, and that describes the operation of the system, the manner in which records are kept, the control points, the verification procedures and the process for correcting deficiencies in the system;

(b) a statement that discloses all conflicts of interest that the corporation or any of its directors, officers or employees, or any shareholder having a significant interest in the corporation may have with the fishing industry, and that explains how those conflicts are to be resolved; and

(c) evidence of the corporation's financial viability, or a performance bond guaranteeing three months of operation.

(2) An observer designated under subsection (1) has the following duties:

(a) to comply with the program submitted under paragraph (1)(a);

(b) to transmit to the Department, in a timely manner, the information collected and compiled as part of the program;

(c) to disclose all conflicts of interest that arise after the observer's designation and explain how they are to be resolved; and

(d) to resolve any conflicts of interest disclosed under paragraph

(e) or paragraph (1)(b).

(3) The Regional Director-General may revoke the designation of an observer designated under subsection (1) if the observer

(a) falsifies any information transmitted in the course of its duties or fails to perform those duties; or

(b) fails to maintain the performance bond submitted under paragraph (1)(c).

39.2 The designation of an observer is valid for

(a) six months for the first designation and 36 months for any subsequent designation, in the case of an individual; and

(b) 12 months for the first and second designations and 24 months for any subsequent designation, in the case of a corporation.

39.3 (1) No person shall submit false information to the Regional Director-General for the purpose of obtaining their designation as an observer.

(2) No observer shall falsify any information that they transmit in the course of their duties. SOR/98-481, s. 4.

- 40.** (1) The Regional Director-General shall provide each observer with a certificate that certifies the observer's designation as such and specifies the duties that have been assigned to the observer.
- (2) An observer shall, on entering any place to perform the observer's duties, on request, show the certificate of designation to the person in charge of the place.

Fishery (General) Regulations
Designation and Duties

39. (1) The Regional Director-General may designate as an observer any individual who is qualified and trained to perform any of the duties described in subsection (2) and who

(a) does not hold a certificate of accreditation issued under the Professional Fish Harvesters Act, S.N. 1996, c. P-26.1, or a fisher's registration card;

(b) does not purchase fish for the purpose of resale; and

(c) is not an owner, operator, manager or employee of an enterprise that catches, cultures, processes or transports fish.

(2) The Regional Director-General shall assign to an observer designated under subsection (1) one or more of the following duties:

(a) the monitoring of fishing activities, the examination and measurement of fishing gear, the recording of scientific data and observations and the taking of samples;

(b) the monitoring of the landing of fish and the verification of the weight and species of fish caught and retained; and

(c) conducting biological examination and sampling of fish.

(3) Where an observer is assigned the duties set out in paragraph (2)(a), the observer shall perform the duties while on board a fishing vessel.

(4) Where an observer is assigned the duties set out in paragraph (2)(b), the observer shall perform those duties while at a fish landing station.

(5) Where an observer is assigned the duties set out in paragraph (2)(c), the observer shall perform the duties while at a fish landing station.

(6) The Regional Director-General may revoke the designation of an observer designated under subsection

(1) if the observer

(a) no longer complies with the criteria set out in that subsection;

(b) performs his or her duties in respect of a fisher with whom the observer is not dealing at arm's length;

(c) falsifies any information transmitted in the course of his or her duties or fails to perform those duties; or

(d) fails to perform his or her duties in a competent and professional manner. SOR/98-481, s. 3.

**Provisional response by Denmark (Faroe Islands & Greenland) to
STACTIC WP 02/10**

FAROE ISLANDS

1. The Faroese Fisheries Control
2. The observers are recruited by the Faroese Fisheries Control.
3. The qualifications required are experience from fishing vessel, knowledge of navigation, fishing operation, gear types, etc.
4. The Faroese Fisheries Control run a short course for the observers on NAFO Control and Enforcement Measures relevant to the task of observers. The Faroese Fisheries Laboratory run a training course on how to collect the scientific data required.
5. There is no process for verifying that the observers have successfully completed training, except that they completed the mentioned courses.
6. Observers are deployed to all Faroese fishing vessels in NAFO Regulatory Area.
7. In order to meet requirements regarding independency and impartiality, the observers on Faroese vessels in the RA are authorized and employed by the Faroese Fisheries Control.
8. All observers on Faroese vessels are nationals of the flag state.
9. No.
10. No.
11. The Faroese Fisheries Control receives the observer reports. Not all observer reports are submitted.
12. The period from the day the observer enters the vessel and the vessel lands its catch.
13. No information on apparent infringement identified by an observer has been received.
14. Prior to the trip the observers are contacted by the Fisheries Control for briefing and preparation.
15. The scientific data collected by Faroese observers has been used in several papers submitted to the Scientific Council.
16. Different format has been used, but the observer reports meet the requirements set out in the Conservation and Enforcement Measures in terms of content.
17. No
18. There has not been any complaints from observers on the accommodations and facilities.
19. There are no specific procedures in place to follow up on observers reports which identify irregularities. If infringements are identified in the observers reports the case will be investigated. Based on this information it will be determined whether action should be taken according to Faroese legislation.
20. In 2001 the costs of the observers was about 1,8 mill. Danish kr. The local government is responsible for paying these costs.
21. N/A
22. N/A
23. N/A

**Provisional response by Denmark (Faroe Islands & Greenland)
to STACTIC WP 02/11**

FAROE ISLANDS

1. All Faroese vessels fishing in the NAFO Regulatory Area are equipped with VMS.
2. Messages are sent by vessels to the FMC with 1 hour frequency.
3. The messages contain
 - vessel name, side number, call signal
 - most recent position of the vessel
 - date and time of the fixing of the position
 - course and speed of the vessels. Possibilities for tracking of vessels.
4. Yes.
5. No specific rules. In the event of equipment failure the vessel is instructed to repair or replace the equipment as soon as possible.
6. Vessels with defective VMS equipment do communicate reports to the FMC at least daily.
7. VMS report are communicated to NAFO.
8. ... with 1 hour frequency.
9. Yes
10. N/A
11. The costs of the system:
 - installation of the equipment 24 000 dkr
 - transmission of 1500 \$ US per month
 - FMC (hardware/software and day to day management) N/A

Response by Denmark (Faroe Islands & Greenland) to STACTIC WP 02/10

GREENLAND

1. Who employs the observers?
Greenland Fisheries Licence Control Authority (GFLK) employs the observers.
2. How are they recruited?
They are recruited through newspaper ads and personal recommendations.
3. What are the qualifications required for observer recruits?
Professional knowledge of fishery, navigational skills such as fishing skipper etc..
4. What are the training standards?
8 to 10 weeks training course in fishery regulation and fishery control. Additional sampling courses arranged by Greenland Institute of Natural Resources. One year as trainee before they start working independently.
5. How is the training delivered and what is the process for verifying that observers have successfully completed training?
The training is taking place at the Fishing School and other authorised institutions in Greenland.
6. Is the 100% coverage requirement being adhered to? i.e. are observers deployed to all vessels fishing in the Regulatory Area?
Yes.
7. How do the observers meet all requirements regarding independence and impartiality?
The observers are government employed and officials and as such paid by the Government.
8. Are observers nationals of the flag state of the vessel?
Yes.
9. Are all observer reports submitted to the NAFO Secretariat?
Yes.
10. Are observer reports submitted to the Secretariat within 30 days of completion of the trip?
Yes, - However, delays may happen due to administrative delays
11. Are all observer reports submitted to officials of the Contracting Party? Who receives the reports?
Yes, GFLK receives the reports.
12. How is the term “trip” defined by the Contracting Party?
A trip is defined as from departure port with no fish on board (empty fishing holds) to arrival for a complete discharge.
13. Are observer reported infringements reported to NAFO inspection vessels within 24 hours?
Yes, if they find any.
14. What are the procedures for briefing and de-briefing observers prior to and following trips to sea?
All observers are called in for briefing and de-briefings.

15. Are the observer reports available to scientists, and to what extent do they make use of the reports?
As such the reports used by Greenland is available but not used.
However, logbooks-information and data will carry an indication that an observer was present during this trip.
16. Do the observer reports meet all of the requirements set out in the Conservation and Enforcement Measures, in terms of content and format?
Yes as far as the shrimp fishery concerns. However, the logbook is also considered as a part of the report.
17. Do observers report on the functioning of satellite tracking systems?
Yes. However, it is limited what observers can check on these systems and this must be in close cooperation with the FMC.
18. Have observers been provided with suitable accommodations, board and cooperation from fishing vessels masters and crews?
Greenland observers are covered by national regulation and they must be provided with the similar accommodation and board as officers on board.
19. What procedures are in place for the Contracting Party to follow up on observer reports which identify irregularities/infringements?
- What analysis is conducted?
Upon arrival at Greenland port the vessel will be inspected and the observer and master questioned.
- What reports are prepared?
A port inspection report is prepared and if any infringements have been detected a special report to the Directorate is also prepared for further legal action.
- How are the reports/analysis used to take corrective action?
Form the basis for administrative warnings etc.
- What corrective action is taken?
Administrative legal warnings.
20. What are the costs of deploying observers? Who is responsible for paying these costs?
GFLK is paying the full costs of the observers.
21. What are the costs of traditional enforcement methods?
Since the seagoing inspection and control is carried out by the Danish Navy these costs are not available.
22. What are the results of observer coverage, VMS coverage, and other traditional control methods as evaluated as per NAFO FC 98/3, Annex 4.
Improved catch reporting. Such as catch positions and compositions.
23. What level of compliance is indicated by the observer reports? i.e. how many infringements have been detected by observers and traditional means of inspection over the 4 year period 1998-2001?

The information and data recorded in the logbook of catches are much more accurate and especially the data on discards and by-catches are far more reliable.
Highgrading in quota areas has been reduced to a minimum.

Response by Denmark (Faroe Islands & Greenland) to STACTIC WP 02/11

GREENLAND

1. Are all your vessels equipped with VMS?
Yes, all Greenland vessels operation in the NRA are equipped with an Inmarsat-C ALC.
2. What is the frequency of messages sent by vessels to the FMC?
A position report is transmitted every hour.
3. Do the messages contain:
 - Vessel identification? Yes.
 - Most recent position of the vessel? Yes.
 - Date and time of the fixing of the position? Yes.
 - Other data elements? If yes, please specify. Yes; Course and speed.
4. Is the FMC equipped with the appropriate computer hardware and software to process the transmissions automatically?
Yes, all VMS messages are transmitted automatically. Hail messages are manually processed.
5. In the event of equipment failure, what are the obligations to repair or replace the equipment and how soon must such repairs/replacement be made?
The master or owner must replace or repair the ALC at first port of call.
6. Do vessels with defective VMS equipment communicate reports to the FMC, and if so with what frequency?
Yes, ones every 24 hours
7. Are VMS reports communicated to NAFO?
Yes.
8. What is the frequency of the transmission of such reports to the NAFO Secretariat?
Once every hour.
9. Are the reports and messages in accordance with the VMS position report format?
For the time being they are in accordance with the NEAFC format.
10. Do inspection vessels in the Regulatory Area receive the VMS reports from the NAFO Secretariat?
No Greenland inspection present in the NRA.
11. What are the costs of the system for:
 - Installation of the equipment?
ALC: Approx. € 4.500,- Inmarsat-C vessel installation.
 - Transmissions?
Approx. € 2,00 /day pr. vessel
 - FMC (hardware/software and day to day management)?
Hardware: Approx. € 130.000,-;
Software: Approx. € 80.000,-
Day to day management: Approx. € 35.000,-.¹

¹) Software maintenance and communication only

Response by Estonia to the questions in STACTIC Working Paper 02/10

1. The Environmental Inspectorate employs observers.
2. All candidates have to pass the observers' training course.
3. Must be physically and mentally capable to carry out observers' duties, fisheries, marine or biological background is favourable.
4. Training is based on the Canadian observers' manual.
5. 3-4 weeks training course (depends on the background of candidates) is carried out when needed. There is a test at the end of the course covering all main parts of the training.
6. Not one vessel flying Estonian flag is allowed to fish in the NAFO area without an observer on board.
7. The Environmental Inspectorate employs observers; they cannot have any relationship to the company or representatives of the company that owns the vessels observer is deployed on.
8. All observers on board Estonian vessels are Estonian citizens.
9. All observer reports have been submitted to the NAFO Secretariat.
10. There have been some delays on submitting reports within 30 days. However, no delays are noticed from 2002.
11. The Environmental Inspectorate collects all observer reports.
12. Trip – time between observer's departure and return to the home country.
13. Yes if discovered.
14. Observers are briefed on fisheries, special requirements/restrictions, reports, and materials to be collected during the trip. De-briefing shall bring out, inter alia any unusual/suspicious activities during the trip, failure following national and NAFO rules by the master/crew of the vessel or observer.
15. All observer reports are available for the scientists and are regularly sent to the Estonian Marine Institute for analysis.
16. Yes.
17. Yes.
18. Yes.
19. Information in the observer reports is compared with data transferred by the master of the vessel, logbook entries and VMS data. In the case of any difference the contact is made with observer and master/vessel owner immediately.
20. Costs about 150 000 EUR/year, paid from the State budget.
21. No information at the moment.
22. -
23. No data available.

Response by Estonia to the questions in STACTIC Working Paper 02/11

1. All vessels fishing outside of Estonian waters must be equipped with VMS.
2. Frequency of messages from vessels fishing in the NAFO area is 6 hours.
3. Messages contain vessel identification, position, date, time and speed at this position, calculated speed from previous position.
4. The Terravision program is used for data processing.
5. In the case of technical failure or non-functioning the master of the vessel has to report the position of the vessel every 24 hours until device is fixed. The device on board has to be fixed within one month, in the case of trip longer than one month the vessel is not allowed to start new trip before system is functioning.
6. 24 hours
7. Yes
8. Every 6 hours
9. Yes
10. Yes
11. Installation of the equipment ~150 000 EUR, transmissions (incl. vessels in other areas) ~20 000 EUR/year, FMC ~15 000 EUR/year.

**Replies of the EU to the questions pointed out in STACTIC Working
Paper 02/10 (revised)**

1. Who employs the observers?

The European Commission contracts observer providers through a public tender procedure.

Over the past years the Commission concluded contracts with:

- Exploration Logistics (ExLog);
 - Marine Resources Assessment Group (MRAG); and,
 - McAlister and Partners
- all based in the UK

2. How are observers recruited?
3. What are the qualifications required for observer recruits?

The observer provider is recruiting observers.

In accordance with the contract concluded observers must have a background as:
fisheries inspector, navigator, marine biology.

Most observers are recruited from a professional fisheries observers pool. Most observers have a background in marine biology.

4. What are the training standards?
5. How is the training delivered and what is the process for verifying that observers have successfully completed training?

Training is acquired by the service provider in accordance with the standards of the NAFO Scheme.

Each observer is provided with an observer manual.

EU inspectors check whether observers are well trained. Observers which do not meet the requirements, are not re-employed again by the observer provider.

6. Is the 100% coverage requirement being adhered to? i.e. are observers deployed to all vessels fishing in the Regulatory Area?

Yes. It is prohibited to fish in the NAFO Regulatory Area without an observer on board.

7. How do the observers meet all requirements regarding independence and impartiality?

Observers must provide declaration stating that it has no financial or other relations with the fishing industry.

8. Are observers nationals of the flag state of the vessel?

Observers have the nationality of one of the EU Member States.

In most cases the observer has a nationality different than the vessel on which he is deployed.

9. Are all observer reports submitted to the NAFO Secretariat?

Yes.

10. Are observer reports submitted to the Secretariat within 30 days of completion of the trip?

No. The report is made in handwriting on board and completed after leaving the vessel on which the observer was deployed. Subsequently it is provided to the observer company which is logging all data in a database. The observer provider transmits the report to the NAFO Secretariat.

11. Are all observer reports submitted to officials of the Contracting Party? Who receives the reports?

The observer provider transmits the report to:

- The European Commission (report hard copy and disc and original observer books)
- the flag Member State (report hard copy)

The master of the vessel will be provided with a copy on request.

12. How is the term “trip” defined by the Contracting Party?

In accordance with NAFO rules trip means the assignment of an observer to a vessel.

An assignment of an observer to a vessel does not coincide necessarily with a fishing trip. Community fishing vessels may operate fishing trips of 6 months whilst observers trips will normally not last more than 3 months.

13. Are observer reported infringements reported to NAFO inspection vessels within 24 hours?

Where appropriate, yes. (In cases where inspectors have a fair chance to cite an infringement.)

14. What are the procedures for briefing and de-briefing observers prior to and following trips to sea?

The observer provider briefs the observer prior to its trip and organizes also a debriefing following a trip.

Inspectors are in principle not involved in briefings and debriefings.

15. Are the observer reports available to scientists, and to what extent do they make use of the reports?

Observer reports are available to scientists but they do not make a lot of use of all data collected. Scientists criticize in many cases the quality of the data collected by NAFO observers.

During certain fishing trips, scientific Institutes deploy their own observers in addition to NAFO observer.

16. Do the observer reports meet all of the requirements set out in the Conservation and Enforcement Measures, in terms of content and format?

Yes

17. Do observers report on the functioning of satellite tracking systems?

Yes

18. Have observers been provided with suitable accommodations, board and cooperation from fishing vessels masters and crews?

Yes, with few exceptions.

19. What procedures are in place for the Contracting Party to follow up on observer reports which identify irregularities/infringements?
- What analysis is conducted?
 - What reports are prepared?
 - How are the reports/analysis used to take corrective action?
 - What corrective action is taken?

The observer reports are checked for potential irregularities/infringements. Inspection authorities responsible for the landing control are informed of any such cases.

The observer provider makes provisional information available to the Commission on a weekly basis and at the end of each observer trip which is intended for inspection.

Corrective action is taken on the basis of inspections.

On a general level, the information collected by observers together with other information is used for policy making (fishing industry and authorities of the flag Member States and the Commission).

20. What are the costs of deploying observers? Who is responsible for paying these costs?

The expenditure is paid from the Community budget – 188 EURO per observer day (based on round trip observer)

| | 1999 | 2000 | 2001* |
|----------------------|-----------|-----------|-----------|
| Vessel presence days | 6498 | 7402 | 8189 |
| Observer days | 8409 | 9347 | 11039 |
| Total price | 1.597.370 | 1.757.236 | 2.075.332 |

*provisional

21. What are the costs of traditional enforcement methods?

The traditional enforcement costs amount to 2,5 million EURO per year of which 2,2 million is paid from the Community budget and 0,3 million by Spain.

22. What are the results of observer coverage, VMS coverage, and other traditional control methods as evaluated as per NAFO FC 98/3, Annex 4.
23. What level of compliance is indicated by the observer reports? i.e. how many infringements have been detected by observers and traditional means of inspection over the 4 year period 1998-2001?

As regards questions 22 and 23 the following information is available:

| | 1992 | 1993 | 1994 | | 1998 | 1999 | 2000 | 2001 |
|--------------------|------|------|------|--|------|------|------|------|
| NAFO infringements | | | | | | | | |
| EU vessels | 104 | 89 | 75 | | 4 | 10 | 8 | 10 |

As regards the type of infringements in the period 1999-2001 most infringements relate to recording of catch and incidental catch limits whilst in the period 1992-1994 infringements such as relating to gear, minimum fish size and hail system occurred also frequently.

As regards 122 observer reports concerning 2001 available by the beginning of April 2002, 75 contained information on potential cases of non-respect of NAFO rules ranging from slight excess of by-catch to misreporting of catches.

Almost all potential cases of non-respect of NAFO rules related to catch recording and by-catch. Other cases of non-respect are rarely observed.

**Replies of the EU to the questions pointed out in STACTIC
Working Paper 02/11**

1. Are all your vessels equipped with VMS?
Yes (all vessels >24m)
2. What is the frequency of messages sent by vessels to the FMC?
Variable but at least every 6 hours (depending on the systems the interval may vary from a few minutes to several hours).
3. Do the messages contain:
 - Vessel identification? - Yes
 - Most recent position of the vessel? - Yes
 - Date and time of the fixing of the position? - Yes
 - Other data elements? If yes, please specify. – Optional: course/speed, name, IRCS, External ID, Coastal State, Activity.
4. Is the FMC equipped with the appropriate computer hardware and software to process the transmissions automatically?
Yes
5. In the event of equipment failure, what are the obligations to repair or replace the equipment and how soon must such repairs/replacement be made?
Same rules as those laid down in the NAFO Conservation and Enforcement Measures.
6. Do vessels with defective VMS equipment communicate reports to the FMC, and if so with what frequency?
Yes, each 24 hours
7. Are VMS reports communicated to NAFO?
Yes
8. What is the frequency of the transmission of such reports to the NAFO Secretariat?
Simultaneously, at least a report each 6 hours
9. Are the reports and messages in accordance with the VMS position report format?
Yes
10. Do inspection vessels in the Regulatory Area receive the VMS reports from the NAFO Secretariat?
Yes. As the European Commission does not yet operate a fully automatic system, the transmission to its surveillance vessel requires manual intervention.
11. What are the costs of the system for:
 - Installation of the equipment? - >3300 EURO
 - Transmissions? – about 0,20 EURO per transmitted report (transmission in data format message 0,05 EURO)
 - FMC (hardware/software and day to day management)? - >150.000 EURO (up to > 1 million EURO for sophisticated FMCs)

Provisional response by Iceland to STACTIC WP 02/10

1. The Icelandic Directorate of Fisheries
2. Vacancy announcement according to governmental rules
3. Desired assets of observers is that they have experience as captains or officers of fishing vessels.
4. A short course provided by The Directorate of Fisheries in Reykjavík concerning the NAFO Conservation and Enforcement Measures, and The Marine Research Institute concerning the collecting of samples for certain scientific purposes.
5. To complete the above courses.
6. Yes, without exemption. This is done on a voluntary basis, as Iceland has objected to the Observer Program.
7. All the Icelandic observers are recruited by Icelandic authorities and it is insured that they do not have any relations to the vessel in question. They are therefore rated as totally independent and impartial.
8. Although there are no requirements concerning this, all observers on Icelandic vessels have been Icelandic citizens.
9. Yes.
10. Yes, as of 2002.
11. Yes, to The Directorate of Fisheries.
12. From harbour to harbour.
13. Observers are instructed to report to The Directorate if they become aware of an infringement. The Directorate would then report to the Secretariat without delay.
14. The preparations for observers are on the hand of one official of the Sea Surveillance Dep. at The Directorate of Fisheries. This official is briefed on changes by the Icelandic delegation in NAFO.
15. Scientists make use of the observer reports as the observers are partially trained by them.
16. Not consistently, but improvements are being made in accordance with proposal on a standardized observer report.
17. Yes.
18. Yes.
19. There are no specific rules to go by but this would be done on a case-by-case basis. If an infringement becomes apparent via these channels, corrective action would be taken by The Directorate of Fisheries according to the Icelandic legislation.
20. The current cost is approx. 200 USD. This is fully paid by vessel owners to The Directorate of Fisheries as cost related to control and enforcement in the Icelandic EEZ generally is.
21. N/A
22. N/A
23. N/A

Provisional response by Iceland to STACTIC WP 02/11

1. Yes.
2. Every hour.
3.
 - Yes
 - Yes
 - Yes
 - Speed and course
4. Yes.
5. Vessels are allowed to finish the fishing trip where the equipment failure occurs, but the fishing trip can not exceed one month.
6. Yes, every twelve hours.
7. Yes.
8. 6 hours.
9. Yes.
10. N/A
11. Mobile equipment approx. 3.000 USD.
 - 4 cents US pr packet, 8 cents US for position incl. speed and heading (two packets)

**Japanese comments to the questions listed in STACTIC Working
Paper 02/10(Revised)**

1. The public-service corporation which is approved by the Japanese Government employs observers.
2. They are introduced by research institutes.
3. The public-service corporation employs a person who has an expert knowledge and an experience with respect to a fishery and a biology.
4. It is according to an Observer Training Project conducted by a Japanese Government.
5. Japanese Government gives the authorization for a person to be qualified as an observer after passing an examination, when a person finishes a course and a practice for observer.
6. Yes, it is
7. With respect to the independence, observers do observer job only.
With respect to the impartiality, observers are employed by a public-service corporation and they are not controlled by the master of fishing vessels.
8. Yes, they are.
9. Yes they are.
10. Yes, they are.
11. Yes, they are. The Fisheries Agency of Government Japan does it.
12. It is from the leaving port to the arriving at port.
13. We do not understand the question's meaning.
14. Observers get a briefing once a year, when they return to Japan.
15. Yes, they are. It utilizes for a stock assessment.
16. Yes, they do .
17. No, they do not .
18. Yes, they have.
19. a. vessel position, catch per unit efforts, species, by-catch , etc
b. noon position, set net position, hauling net position, etc
c. We compare the catch report with the observer report. In case of that there are different figures between the catch report and the observer report, we instruct the fishing vessel to correct it or improve it.
d. The correction of catch report, suspend fishing, move to other fishing ground, etc.
20. It is approximately Japanese yen 10,000,000/person/year.
21. It is approximately Japanese yen 17,000,000/year. The traditional enforcement method for us is a Satellite Tracking System.
22. The effect of enforcement way of 3 methods is almost same, because a fishing vessel is given an enough fish quota for fishing throughout the year.
23. It is excellent level. It is only one.(it is caused by that the master of fishing vessel did not understand the CEM completely)

**Japanese comments to the questions listed in STACTIC Working
Paper 02/11(Revised)**

1. Yes, they are.
2. It is one time between 1.5 hours and 2 hours.
3.
 - a) Yes, it does.
 - b) Yes, it does.
 - c) Yes, it does.
 - d) Yes, it does. They are a speed of fishing vessel and the distance between coast and fishing vessel.
4. Yes, it is.
5. Japanese Government put on the owner of fishing vessel an obligation to have a reserve one. In case that such a reserve one does not operate, the fishing vessel has to send the noon position to FCM everyday until the arriving at port.
The fishing vessel does not leave the port until the completion of repairing of VMS, after the enter of the port.
6. Yes, they do. They communicate one report of the noon position a day to FMC.
7. Yes, they are.
8. It is one time every 6 hours.
9. -
10. Yes, they do.
11.
 - a) The cost is approximately Japanese yen 300,000 to 400,000 for one installation of the equipment.
 - b) It is Japanese yen 980 per one day.
 - c) It is approximately Japanese yen 17,000,000 per year.

**Provisional replies of the Lithuania to the questions in the STACTIC
Working Paper 02/10**

1. Fisheries Department under the Ministry of Agriculture.
2. Presently on fishing vessels are working observers which have been completed observers training courses.
3. Requirements for recruitment of new observers are in preparation.
4. Training standards are also in preparation.
5. –
6. Yes
7. They do not perform any others duties than described in the NAFO Conservation and Enforcement Measures.
8. Mostly nationals but work also observers from other Contracting Parties. In these cases observers from other Contracting Parties must have certificates.
9. Yes. During 2000-2001 few reports were not provided due to the reorganization of Lithuanian fisheries administration.
10. Presently not all.
11. Yes. Fisheries Department.
12. Trip is defined from observer's embarking the vessel until vessel landed fish in harbour. But reports are being provided to the Fisheries Department after observer is being replaced by another observer.
13. There was no such case.
14. Before departure of observer he is instructed in the Fisheries Department.
15. Reports are available to the scientists but not being used by them.
16. All requirements except scientific data.
17. Yes.
18. Yes.
19. The irregularities are discussed with observers. After that owners of fishing vessels have been noticed to make necessary changes. The data from observers reports have been compared with information from fishing logbooks and fishing enterprises reports.
20. Owners of fishing vessels are responsible for the payment of expenses and this payment is done through Fisheries Department.
21. –
22. –
23. Would be answered later.

**Provisional replies of the Lithuania to the questions in the STACTIC
Working Paper 02/11**

1. All fishing vessels are equipped with satellite-tracking devices.
2. Vessels do not send messages due to not functioning of the FMC.
3. -.
4. FMC is equipped with computer hardware and software but there are technical problems with software.
5. -.
6. -.
7. -.
8. -.
9. -.
10. -.
11. Would be answered later.

Responses by Norway to questions in STACTIC Working Paper 02/10 (Revised)

1. Norwegian authorities (the Directorate of Fisheries) has contracted a Canadian company (Seawatch).
2. Advertised competition (by Seawatch).
3. Related maritime experience, including navigation. Knowledge of fishing gear, biological research and enforcement training.
4. Three weeks training session.
5. Examination, followed by a certification (if passed).
6. Yes
7. Independent company with no links to shipowners or crew.
8. No
9. Yes
10. Yes
11. Yes. The Directorate of Fisheries
12. Time spent in the Regulatory Area.
13. Yes
14. The Directorate of Fisheries indicates to Seawatch the requirements of the relevant fisheries who gives the observer a manual for the use of information to be collected. By the end of the trip Seawatch examine (together with the observer) if the observer has fulfilled his/her tasks.
15. Norwegian authorities do not submit reports to scientists on a regular basis.
16. Yes, but some complaints about the handwriting have been received.
17. No, the responsibility of the FMC.
18. Yes, no complaints from observers.
19. An evaluation and possible reaction by the Legal office (in the Directorate of Fisheries). If an infringement is detected the master of the vessel is requested for an explanation and possible views. Based on this the authorities decide on an adequate reaction to the irregularities/ infringements. A report would be submitted to the NAFO Secretariat.
20. 340 CAD, plus travel costs and daily allowances, paid by the shipowners.
21. So far CEM, Part IV, 3 second paragraph has not been applicable to Norway.
22. N/A
23. Observer reports: 1 - Inspections: 4 (of which 2 are regarded as questionable)

Responses by Norway to questions in STACTIC Working Paper 02/11(Revised)

1. Yes
2. 1 hour
3. · yes
· yes
· yes
· speed and course
4. Yes
5. The vessel might conclude the fishing trip. The vessel is not allowed to continue fishing (leaving the port) before the failure is repaired and/or the function is restored.
6. The vessel has to submit a manually report twice a day.
7. Yes
8. Every 6 hours
9. Yes
10. No Norwegian inspection vessel has so far been in the Regulatory Area (cf. CEM Part IV, 3).
11. · 6000 CAD
· 100 CAD
· 100 000 CAD

**Reply of the Russian Federation to the questions on the application of VMS
(STACTIC W.P. 02/11, revised)**

1. Are all your vessels equipped with VMS?
Yes, all vessels longer than 24m
2. What is the frequency of messages sent by vessels to the FMC?
Every hour
3. Do the messages contain:
 - Vessel identification? - Yes
 - Most recent position of the vessel? - No
 - Date and time of the fixing of the position? - Yes
 - Other data elements? If yes, please specify. - No
4. Is the FMC equipped with the appropriate computer hardware and software to process the transmissions automatically?
Yes
5. In the event of equipment failure, what are the obligations to repair or replace the equipment and how soon must such repairs/replacement be made?
Within 10 days to repair, then go to harbour for replacement.
6. Do vessels with defective VMS equipment communicate reports to the FMC, and if so with what frequency?
4 times per day
7. Are VMS reports communicated to NAFO?
Yes
8. What is the frequency of the transmission of such reports to the NAFO Secretariat?
4 times/day
9. Are the reports and messages in accordance with the VMS position report format?
No
10. Do inspection vessels in the Regulatory Area receive the VMS reports from the NAFO Secretariat?
No
11. What are the costs of the system for:
 - Installation of the equipment?
 - Transmissions?
 - FMC (hardware/software and day to day management)?
No comments.

U.S. Response to STACTIC Working Paper 02/10

1. U.S. observers are employed by the U.S. government.
2. U.S. observers are recruited from Universities and positions are advertised in periodicals which target interested individuals.
3. U.S. observers possess a university degree, preferably in biological sciences or fisheries management.
4. U.S. observers must undergo an intensive two week training course which includes formal classroom instruction on fisheries management, regulations, species identification, fishing methods and vessel safety.
5. Training of U.S. observers consists of formal classroom instruction and field work related to observer duties. U.S. observers must successfully pass four written examinations to demonstrate proficiency.
6. The U.S. is not currently fishing in the NAFO regulatory area, however U.S. vessels would not be permitted to undertake fishing operations in the NAFO regulatory area without an embarked observer. Acceptance of an observer is a condition of a vessel's authorization to fish in the NAFO regulatory area.
7. U.S. observers are recruited from outside the commercial fishing industry. They are employed, and paid, by the U.S. government. They generally have no connection to, or interest in, the vessels on which they serve.
8. U.S. observers are employees of the U.S. federal government and therefore, according to law, must be U.S. citizens.
9. The U.S. is not currently fishing in the NAFO regulatory area, however in the event U.S. vessels undertake fishing operations in the NAFO regulatory area the U.S. will ensure observer reports are made available to the NAFO Secretariat in a timely manner.
10. See item 9 above.
11. The U.S. is not currently fishing in the NAFO regulatory area, however in the event U.S. vessels undertake fishing operations in the NAFO regulatory area the U.S. will ensure observer reports are submitted to the U.S. National Marine Fisheries Service's Northeast Regional Office located in Gloucester, MA.
12. The U.S. is not currently fishing in the NAFO regulatory area, however in the event U.S. vessels undertake fishing operations in the NAFO regulatory area the U.S. would define a NAFO trip to begin with entry into the NAFO regulatory area and would conclude upon departure of the vessel from the regulatory area.
13. U.S. is not currently fishing in the NAFO regulatory area, however U.S. observer protocol calls for immediate notification of enforcement authorities for subsequent investigation.
14. U.S. is not currently fishing in the NAFO regulatory area, however U.S. procedures call for U.S. observers to be fully briefed on NAFO procedures and conservation and enforcement measures prior to the entry of any U.S. fishing vessel into the NAFO regulatory area.

15. U.S. is not currently fishing in the NAFO regulatory area, however current practice in U.S. domestic fisheries is to process observer data and make it available in the scientific community to aid in stock assessment and other management efforts.
16. U.S. is not currently fishing in the NAFO regulatory area, however the U.S. has adopted NAFO reporting requirements to ensure that all U.S. fishing operations in the NAFO regulatory area comply with all aspects of the NAFO Conservation and Enforcement Measures.
17. U.S. is not currently fishing in the NAFO regulatory area, however U.S. observer protocol calls upon observers to report any malfunction of onboard satellite tracking systems.
18. U.S. is not currently fishing in the NAFO regulatory area, however the U.S. would require all U.S. fishing vessels contemplating fishing operations in the NAFO regulatory area to provide adequate accommodations and other support prior authorizing the vessel to fish in the NAFO regulatory area.
19. U.S. is not currently fishing in the NAFO regulatory area, however U.S. protocol provides for comparison of observer reports with landing reports and provisional catch data.
20. U.S. is not currently fishing in the NAFO regulatory area, however the U.S. estimates that costs associated with deployment of observers to U.S. vessels fishing in the NAFO regulatory area would amount to \$550 (USD) per day. The U.S. government is responsible for paying for the services of fisheries observers.
21. U.S. is not currently fishing in the NAFO regulatory area and currently incurs no direct enforcement costs. The U.S. can, however, make available details on costs associated with individual enforcement resources if necessary.
22. Not applicable, the U.S. is not currently fishing in the NAFO regulatory area.
23. Not applicable, the U.S. is not currently fishing in the NAFO regulatory area.

SECTION IV
(pages 179 to 188)

**Report of the Working Group of Technical Experts
on the Precautionary Approach (PA)
20-21 June 2002
Dartmouth, N.S., Canada**

| | |
|--|-----|
| Report of the Working Group of Technical Experts on the Precautionary Approach (PA)..... | 181 |
| 1. Opening of the Meeting | 181 |
| 2. Election of a Chairman | 181 |
| 3. Appointment of Rapporteur | 181 |
| 4. Adoption of Agenda..... | 181 |
| 5. Presentations on Precautionary Approach for Discussion | 181 |
| 6. Matters to be considered by the Fisheries Commission regarding the Implementation of the Precautionary Approach in NAFO..... | 184 |
| 7. Development of Recommendations for future work of the Fisheries Commission/Scientific Council Working Group..... | 184 |
| 8. Other Matters | 185 |
| 9. Adjournment of the Meeting..... | 185 |
| Annex 1. List of Participants | 186 |
| Annex 2. Agenda | 188 |

Report of the Working Group of Technical Experts on the Precautionary Approach

(FC Doc. 02/12)

**20-21 June 2002
Dartmouth, N.S., Canada**

1. Opening of the Meeting

The Working Group of Technical Experts on the Precautionary Approach (PA) was called to order by Mr. Dean Swanson (USA), Chair of the Fisheries Commission at 1000 hr, June 20, 2002 at the Ramada Plaza Hotel in Dartmouth, Nova Scotia. Representatives from Canada, the European Union, United States of America, Russian Federation, Iceland, Japan and Norway were present (Annex 1). The Chairman welcomed participants to Dartmouth.

2. Election of a Chairman

Mr. Jim Baird (Canada) was appointed as Chairman for the meeting. The Chair of the working group noted, upon the suggestion of the Chair of the Fisheries Commission, that the meeting would be held in an open and informal fashion to facilitate a frank and complete discussion of the many elements related to the precautionary approach.

3. Appointment of a Rapporteur

Judy Dwyer (Canada) was appointed Rapporteur for the meeting.

4. Adoption of the Agenda

The agenda (Annex 2) was adopted as modified.

5. Presentations on Precautionary Approach for Discussion

There were three presentations made which provided a basis for discussion under Agenda Item 6.

- 1) A Review which outlined the steps taken to date by NAFO in developing the Precautionary Approach.

Material was presented outlining the history and evolution of the Precautionary Approach within NAFO. Work began in 1996 with a request from Fisheries Commission to Scientific Council to begin work in this area. Since then, there has been development of biological reference points for some stocks managed by Fisheries Commission as well as development, again by Scientific Council, of a proposed framework for application. A Fisheries Commission/Scientific Council WG was formed and discussions of the PA have taken place during three meetings of the WG during which the biological perspectives as well as other conservation measures were discussed. The specific roles of scientists and managers has been determined, and issues pertaining to harmonization of terminologies have been outlined.

2) An overview of the work done by ICES in developing the Precautionary Approach

The development of fisheries advice within the Precautionary Approach Framework was described. Precautionary Approach Limits were introduced into ICES advice in 1981 and further developed in 1986. The development of ICES Precautionary Approach framework for advice is described within four ICES Study Groups on the Precautionary Approach. The 1997 Study Group described how reference points should be defined, and proposed the use of pre-agreed harvest control rules and recovery plans to maintain or restore stocks within safe biological limits. The 1998 Study Group estimated reference point values that were adopted by ACFM in giving advice and that are generally still in use, although some reference values have since been recalculated by individual assessment working groups. The 2001 Study Group provided a general overview of the current status of the PA in ICES, and reviewed the technical basis for the points currently in use.

The reference points proposed by ICES have been formally accepted for the management of fish stocks shared by Norway and the EU, which have adopted the PA reference points in the management agreement for herring, cod, haddock, saithe and plaice in the North Sea, and mackerel in western waters.

The ICES Precautionary Approach Study Group has noted that the present implementation in management has deficiencies. It is based on a single species concept, whereas many species are caught in mixed or multispecies fisheries, and the advice has no consideration for the side effects of the fisheries such as the impact on the ecosystem. F_{pa} was intended as the upper bound of the fishing mortality that can be applied to a fishery in order to have a high probability of maintaining a sustainable resource. Similarly B_{pa} was intended to be interpreted as the minimum required adult spawning biomass. It was expected that fishery managers would have set targets beyond the reference points taking into account biological, catch/revenue or employment objectives. In practice the management system has not been able to agree on such targets and the precautionary reference points are being used as targets. By managing the stocks so close to the F_{pa} and B_{pa} targets, however, there is a substantial probability that stocks will move above or below the target from year to year so that management action has to be taken frequently to change the stock trend.

ICES has recently begun the process of establishing a series of meetings that will review the current reference points for each stock this process is scheduled to be completed by the end of 2003.

3) Management Experience with the ICES Precautionary Approach Framework.

The group heard opinions that implementing the ICES PA framework had brought notable benefits, mostly that it had promoted general acceptance by managers and industry of a more cautious and longer-term approach to fisheries management. The clear framework for advice and assessments assists transparency and “good governance”. Where the approach has been applied consistently, positive results are starting to show (e.g. North Sea herring).

However, there were a number of drawbacks and problem areas.

- The system is based only on stock dynamics and risk, with no yield considerations. Managers are interested in questions of catch and harvesting rate, but are no longer being informed about, for example, current fishing mortality compared to F_{max} ;
- Risk acceptance is highly variable across different stocks in the ICES area;

- In the absence of defined fishing mortality values, the F_{pa} value which was intended to be a limiting value can become used as a target;
- There is no consideration of stability and assessment noise in the framework, and there is no consideration of when TAC changes are really useful or needed, or else are largely due to stochastic variability of fish stock assessments;
- Despite recent progress, the approach has not yet altered the perception that assessment revisions are “mistakes by scientists”, rather than inescapable consequences of attempting to measure fish stocks with limited observations;
- Furthermore, such assessment “noise” means that stocks are unpredictably crossing the safe biological limits despite management actions to prevent this;
- A key issue for fish stock management is the appropriate regulation of fishing activities that result in several species being caught, some of which may require stronger conservation measures than others. The existing frameworks provide managers with very little assistance in this regard.
- While the creation of a formal and rigid advisory framework assists in good governance and transparency, it may arguably have the drawback that there is correspondingly less scope for inputs from knowledgeable experts and case-specific adaptation.
- In the ICES framework, there is no definition of measures to apply in case of stocks below B_{pa} . In the event of stock depletion, managers need additional resources to develop case-specific recovery plans.
- Two more technical issues are that the the ICES PA framework recognises assessment noise but not structural uncertainty; furthermore, the PA reference point values are usually given as absolute values (e.g. “ $B_{pa} = 1.4$ Million t”) when they are model-conditioned and could better be expressed in model-independent terms (“ B_{pa} =average spawning stock size in the years 1985 to 1990).

As an example of the implementation of precautionary concepts into a management instrument, the management arrangements agreed between the Community and Norway were presented and discussed. These arrangements are very concise documents under which commitments are made to:

- Make every effort to keep the stock biomass above B_{lim} ;
- Set TACs according to F_{pa} annually when conditions permit;
- Adapt fishing mortality in the light of scientific estimates of the conditions then prevailing, if stock biomass should fall under B_{pa} . Such adaptation should ensure safe and rapid recovery to above B_{pa} ;
- Review the measures as appropriate according to the latest scientific advice.

Additionally, new proposals concerning the annual management of catches and effort under the proposed new Common Fisheries Policy were presented.

6. Matters to be considered by the Fisheries Commission regarding the Implementation of the Precautionary Approach in NAFO

It was noted that there were a number of common elements between the Precautionary Approach framework utilized by ICES and the framework developed by the Scientific Council of NAFO. These similarities are evident in the model formulation from both scientific organizations and also reflect concerns expressed by managers in implementation. These common elements include the establishment of limit reference points (B_{lim}) and associated biomass buffer reference points (B_{buf} in NAFO and B_{pa} in ICES). The role of managers, on the basis of scientific advice and in consultation with stakeholders, is to establish reference points and in the event that stocks fall below the established reference points, to determine appropriate corrective action. The work of Scientific Council also includes the determination of associated risk, while managers should determine, in consultation with stakeholders, what level of risk may be acceptable.

Analysis of both frameworks raised similar concerns. These include:

- The frameworks were developed in the context of single species fisheries without consideration of multi-species situations
- No consideration of stability for TAC levels in comparison to assessment uncertainties

Additional concerns were identified by fisheries managers with the proposed Scientific Council PA framework. These include:

- Prescribed harvest control rules (no fishing) below B_{lim} or B_{buf}
- A fishing mortality limit at F_{MSY}
- The perception of a linear decrease in fishing mortality from the biomass target to the biomass buffer

Scientific Council representatives clarified that the linear decrease in fishing mortality between the biomass target and the buffer was for illustrative purposes only. The actual trajectory for fishing mortality in this zone should be determined by fisheries managers in consultation with stakeholders. SC representatives further clarified that Harvest Control Rules below B_{lim} or B_{buf} would not necessarily result in a cessation of fishing, and it was noted that it is also the role of managers to determine corrective action when stocks fall below predetermined biological limits. With regard to using F_{msy} as a fishing mortality limit, SC representatives indicated that this was one option, however some other fishing mortality levels could also be used (e.g. F_{max} , $F_{0.1}$, etc.).

A concern was also identified that whereas the Scientific Council framework provides specifically for target biomass and/or fishing mortality when the resource is within safe biological limits, the ICES framework is not as explicit on this issue such that B_{pa} is often used as a target and variability and uncertainty cause stocks to move in and out of safe biological limits.

7. Development of Recommendations for future work of the Fisheries Commission/Scientific Council Working Group

It was agreed that further progress on the above issues as well as overall implementation of the PA within NAFO, would benefit by addressing specific cases and problems. As such, the Group **recommends** that *Fisheries Commission determine an appropriate example(s) then instruct the Joint FC/SC Working Group on the Precautionary Approach to meet intersessionally to address the points above as they apply to the example(s).*

The Group suggests that Fisheries Commission consider steps to develop proposals for long-term plans for the management of different fleet sectors of the fisheries. These plans should include but not necessarily be limited to the following characteristics:

1. They should be concise and binding, in that they specify the objectives for management and the main actions to be taken in pre-defined circumstances;
2. They should cover fisheries fleet sectors, and the impact of these fleet sectors on the stocks or groups of stocks which they fish;
3. Re-opening criteria and actions should be addressed for stocks under moratoria;
4. They should include review clauses to correspond to the acquisition of new scientific information;
5. They should include a suite of technical measures usually assumed to be part of routine management methods, however additional technical measures should not be pre-specified..

8. Other Matters

There were no other matters discussed.

9. Adjournment of the Meeting

The meeting was adjourned at 1230 hrs on June 21, 2002.

Annex 1. List of Participants

CANADA

D. B. Atkinson, Regional Director, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 2027 - Fax: +709 772 6100 - E-mail: atkinsonb@dfo-mpo.gc.ca

J. W. Baird, Regional Director, Fisheries Management, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 4543 - Fax: +709 772 2046 - E-mail: bairdj@dfo-mpo.gc.ca

D. Bevan, Director General, Resource Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
 Phone: +613 990 6794 – Fax +613 954 1407 – E-mail: bevand@dfo-mpo.gc.ca

J. Dwyer, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 - Fax: +709 772 2046 - E-mail: dwyerji@dfo-mpo.gc.ca

M. Short, Special Advisor, NAFO, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 6369, Cell +709 682 5110 – E-mail: shortm@dfo-mpo.gc.ca

R. Steinbock, Senior Advisor, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
 Phone: +613 993 1836 - Fax: +613 993 5995 - E-mail: steinbob@dfo-mpo.gc.ca

EUROPEAN UNION

S. Ekwall, Administrator, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
 Phone: +32 2 299 6907 - Fax: +32 2 295 5700 - E-mail: Staffan.Ekwall@cec.eu.int

K. Patterson, European Commission, DG Fish, Office 6/39, J-99, B-1040 Brussels, Belgium
 Phone: +322 29 98227 – Fax: +322 295 5621 – E-mail: kenneth.patterson@cec.eu.int

F. Gonzalez, Instituto Espanol de Oceanografia, Aptdo 1552, E-36280 Vigo (Pontevedra), Spain
 Phone: +34 9 86 49 2111- Fax: +34 9 86 49 2351 – E-mail: fernando.gonzalez@vi.ico.es

C. Darby, Centre for Fisheries & Aquaculture Science (CEFAS), Lowestoft Laboratory, Pakefield Rd., Lowestoft (Suffolk), England NR33 0HT, United Kingdom
 Phone: +44 1502 524 329 – Fax: +44 1502 513 865 – E-mail: c.d.darby@cefasc.co.uk

ICELAND

T. Sigurdsson, Marine Research Institute, Skulagata 4, 101 Reykjavik
 Phone: +354 5520240 - Fax: +354 5623790 - E-mail: steini@hafro.is

JAPAN

T. Ichii, National Research Institute of Far Seas Fisheries, Fish. Res. Agency, 5-7-1 Orido, Shimizu 424-8633
 Phone: +81 543 36 6056 – Fax: +81 543 35 9642 – E-mail: ichii@affrc.go.jp

NORWAY

A. Aglen, Institute of Marine Research, P. O. Box 1870 Nordnes, N-5024 Bergen
 Phone: +47 55 23 8680 – Fax: +47 55 238687 – E-mail: asgeir@imr.no

RUSSIAN FEDERATION

V. Agalakov, Murmanrybvod, Komintern 5, Murmansk 183672

Phone: +7 8152 453562 – Fax: +7 8152 456028 – E-mail: mrv@an.ru

V. K. Babayan, Head of Laboratory for System Analysis of Fishery Resources, VNIRO, 17, V.

Krasnoselskaya, Moscow 107140

Phone: +7 095 264 6983 – Fax: +7 095 264 9187– E-mail: vbabayan@vniro.ru

K. V. Gorchinsky, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich St., Murmansk

Phone: +7 8152 47 2532 – Fax: +7 8152 47 3331 – E-mail: inter@pinro.murmansk.ru

A. Okhanov, Russian Representative on Fisheries in Canada, 47 Oceanview Drive, Bedford, Nova Scotia, Canada B4A 4C4

Phone: +902 832 9225 – Fax: +902 832 9608 – E-mail: rusfish@ns.sympatico.ca

V. N. Shibanov, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich Street, Murmansk 183763

Phone: +7 8152 47 26 14 – Fax: +7 8152 47 33 31 – E-mail: inter@pinro.murmansk.ru

UNITED STATES OF AMERICA

J. Dunnigan, Director, Office of Sustainable Fisheries, U.S. Dept. of Commerce, NOAA, National Marine Fisheries Service, 1315 East West Highway, Silver Spring, MD 20910

Phone: +301 713 2334 - Fax: +301 713 0596 - E-mail: jack.dunnigan@noaa.gov

R. Mayo, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543

Phone: +508 495 2310 - Fax: +508 495 2393 - E-mail: ralph.mayo@noaa.gov

F. M. Serchuk, Chief, Resource Evaluation and Assessment Division, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543-1097

Phone: +508 495 2245 - Fax: +508 495 2258 - E-mail: fred.serchuk@noaa.gov

D. E. Swanson, Chief, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Highway, Silver Spring, MD 20910

Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: dean.swanson@noaa.gov

NAFO SECRETARIAT

L. I. Chepel, Executive Secretary

T. Amaratunga, Assistant Executive Secretary

F. D. Keating, Administrative Assistant

B. J. Cruikshank, Senior Secretary

Annex 2. Agenda

1. Opening of the Meeting
2. Election of a Chairman
3. Appointment of Rapporteur
4. Adoption of Agenda
5. Presentations on PA for Discussion
 - 5.1 Summary of Discussions to Date
 - 5.2 Recent Experiences with the PA Within ICES
 - 5.3 Management Experience with the ICES Precautionary Approach Framework
6. Matters to be considered by the Fisheries Commission regarding the Implementation of the Precautionary Approach in NAFO
7. Development of Recommendations for future work of the Fisheries Commission/Scientific Council Working Group
8. Other Matters
9. Adjournment of the Meeting

SECTION V
(pages 189 to 216)

**Report of the Ad hoc Working Group on
Management of Oceanic Redfish
24-25 June 2002
Dartmouth, N.S., Canada**

| | |
|--|-----|
| Report of the ad hoc Working Group on Management of Oceanic Redfish..... | 191 |
| 1. Opening of the Meeting | 191 |
| 2. Election of a Chairman | 191 |
| 3. Appointment of Rapporteur | 191 |
| 4. Adoption of Agenda..... | 191 |
| 5. Review of the scientific advice on Oceanic Redfish, including the distribution of it in the Northwest Atlantic | 191 |
| 6. Discussion of possible recommendations to the Fisheries Commission on the relationship and management process between NAFO and NEAFC | 192 |
| 7. Other Matters | 193 |
| 8. Adjournment of the Meeting..... | 193 |
| Annex 1. List of Participants | 194 |
| Annex 2. Agenda | 198 |
| Annex 3. Summary of the Scientific Advice from ICES | 199 |
| Annex 4. Scientific Council information to the W.G. on Oceanic Redfish | 207 |
| Annex 5. NAFO Management Measures re Oceanic Redfish | 211 |
| Annex 6. Measure adopted by NEAFC on Pelagic Fishery for Redfish for 2002..... | 213 |
| Annex 7. Proposal re Oceanic Redfish (pelagic <i>Sebastes mentella</i>) in NAFO SA 2 and Divisions 1F and 3K..... | 215 |

Report of the Ad hoc Working Group on Management of Oceanic Redfish

(FC Doc. 02/13)

**24-25 June 2002
Dartmouth, N.S., Canada**

1. Opening of the Meeting

The ad hoc Working Group on Management of Oceanic Redfish was called to order by Mr. Dean Swanson (USA), Chair of the Fisheries Commission at 1015 hours, June 24, 2002 at the Ramada Plaza Hotel in Dartmouth, Nova Scotia. Representatives from Canada, the European Union, Denmark (on behalf of the Faroe Islands and Greenland), Iceland, Japan, Latvia, Lithuania, Norway, Poland, Russian Federation and the United States of America were present (Annex 1). The Chair welcomed participants to Dartmouth.

2. Election of a Chairman

Mr. Terje Lobach (Norway) was appointed as Chair for the meeting.

3. Appointment of Rapporteur

Mr. Robert Steinbock was appointed as Rapporteur for the meeting.

4. Adoption of Agenda

The Chair noted the Terms of Reference for this Working Group (FC W.P. 02/17 Revised) which formed the basis for the provisional agenda. The agenda (Annex 2) was adopted as modified.

5. Review of the scientific advice on Oceanic Redfish, including the distribution of it in the Northwest Atlantic

Mr. Thorsteinn Sigurdsson (Iceland) provided an update of the survey information and fishery related data and a review of the ICES scientific advice for oceanic redfish (Pelagic *Sebastes mentella*) (Redfish W.G. W.P. 02/4) and Information Paper #1 (Annex 3).

He summarized the survey data as follows:

- A total of about 715,000 tonnes redfish was measured acoustically above 500 m. Redfish is now observed more south-westerly than it was prior to 1999.
- Observed decrease in acoustic abundance since 1994 – exceeds the removed biomass by a factor of 2.
- Redfish is mixed with the scattering layer.
- Based on the trawl method, about 1 million tonnes were estimated below 500 m. The estimate is highly uncertain and only a very rough indicator of the abundance.
- About 1.1 million tonnes were estimated above 500 m with the trawl method highly uncertain, only a very rough indicator of the abundance.
- It is not possible to combine the results from the acoustics and the results from the trawl method.

Mr. Sigurdsson noted the joint efforts in collecting fishery related data and evaluating the commercial catch statistics from the NEAFC parties for oceanic redfish in the NEAFC Convention Area.

He summarized the ICES scientific advice for oceanic redfish for 2003 from the May 2002 ACFM meeting. ICES noted that the recent exploitation level seems not to have caused stock size reduction. For 2002 and 2003, ICES advises that TACs do not exceed current catch levels (including the NAFO Convention Area). The average catch in the last five years has been 119,000 tonnes. In addition, ICES advises that management action should be taken to prevent a disproportional exploitation rate of any one component.

With respect to the special requests on redfish, ICES considers the interpretations of the evidence on stock structure are still diverging and that individual indicators are inconclusive. Therefore the stock structure remains uncertain. Further studies are in progress. Concerning the request on distribution, ICES noted that observations indicate that since 1996:

- a) the fisheries in the Northeastern area in the first half of the year are occurring at depths deeper than 500 m and catching larger fish (35-45 cm).
- b) The fisheries in the Southwestern area in the second half of the year are mainly occurring at depths shallower than 500 m catching smaller fish (33-38 cm).
- c) All information supports that the fishery in the NAFO Convention Area is from the same stock as fished in the western part of ICES Sub-area XII.

Delegates raised questions on the ICES scientific advice and highlighted the uncertainty of using catch rates as a reflection of stock status and that concerns had been expressed by some ICES scientists. It was noted that the distribution of fishing effort does not coincide with the distribution of the stock due, in part, to economic factors related to the quality of the fish. Although the fishery is concentrated on small geographical areas, the distribution of the stock/stocks during the fishing season is very large. There are no indicators from the surveys that the distribution area has been shrinking as a result of the fishery.

Mr. Ralph Mayo (USA), Chair of the Scientific Council, summarized the Scientific Council's review of the information on oceanic redfish (Annex 4). He advised that Scientific Council was not in a position to re-evaluate the ICES information but only commented on the applicability of the information with respect to decisions on the state of the pelagic *Sebastes mentella* resource in the North Atlantic. Scientific Council considered that CPUE (standardized or not) in hours fished for redfish can be misleading and may be optimistic. Scientific Council does not consider this as a reliable indicator of stock status since redfish exhibit schooling behavior and relatively good catch rates may still be possible while the area of distribution of the resource is declining or the number of schools is diminishing. Scientific Council concluded that a stronger statement should be made about the uncertainty in the stock status of pelagic *Sebastes mentella* in ICES Sub-areas V, XII and XIV and the NAFO Convention Area, particularly for the considerations that the standardized CPUE series do not indicate significant stock reductions since 1995.

6. Discussion of possible recommendations to the Fisheries Commission on the relationship and management process between NAFO and NEAFC

The Chair recalled the background to the management decisions for Division 1F redfish which were developed at the Special Fisheries Commission meeting in March 2001 and then "rolled over" for 2002 at the Special Fisheries Commission meeting in January 2002 (Annex 5). He noted that NEAFC adopted measures for pelagic redfish for 2002 and on April 8, 2002, adopted a

supplementary measure to concur with the NAFO decision regarding catches in the NAFO Convention Area in 2002 (Annex 6).

The Representative of the EU noted that NEAFC has traditionally managed the oceanic redfish stock and the NEAFC Parties expect historical rights in light of the scientific research undertaken and their fisheries in the NEAFC Convention Area. However, at the same time, he recognized a certain need to accommodate those parties, not members to NEAFC, which wished to fish this stock in the NAFO Convention Area. A balance needs to be struck between these interests. He saw the main objective was to avoid an unlimited fishery.

The Chair noted that one issue to be addressed is that the current NAFO measure covers only catches in Division 1F and does not cover the entire distribution of the stock in the NAFO Convention Area (SA 2 and Division 3K).

The Representative of Denmark (on behalf of the Faroes and Greenland) considered that NAFO members had resolved the challenge of an unlimited fishery through the current NAFO measure and that it would be wise to keep as much of this measure as possible. He agreed on the need to expand the area of application of the current measure from Division 1F to include SA 2 and Division 3K. He felt that survey results from a 2-month period are an insufficient basis for a new management system. He proposed maintaining the current measure and that any modifications thereto should be of an interim nature.

The Representative of Canada stated that conservation was a priority in light of the migratory trends of the resource and the uncertainty of the state of oceanic redfish. There is a need to ensure that NAFO parties participate and have a meaningful role with NEAFC in the consideration of scientific advice and the management of oceanic redfish as well as a possible role for the relevant coastal States. NAFO parties need to consider the situation and ecological factors in the NAFO Convention Area. Coordination between NAFO and NEAFC was required.

The Representative of Norway was encouraged that parties were prepared to build on the existing measures as a point of departure. He noted some procedural challenges in terms of developing the sequence of advice and decision making between NAFO and NEAFC.

The Representative of Canada tabled and explained a proposal that had been discussed at a Heads of delegation meeting. Other Contracting Parties expressed appreciation for the Canadian proposal and noted that they endorsed the approach. A number of Contracting Parties expressed the view that 5,000 tonnes proposed in point 3 of Redfish W.G. W.P. 02/5 (Revision 3) was too high but agreed to support it in the interests of attaining consensus. Some operational details and clarifications were incorporated during a detailed review of the paper.

The Working Group agreed to recommend that the Fisheries Commission accept Redfish W.G. W.P. 02/5 (Revision 4) (Annex 7). However, the Representative of Lithuania, with respect to NAFO's management of oceanic redfish (pelagic *Sebastes mentella*), expressed the view that a significant percentage of the overall resources are found in the NAFO Convention Area. Therefore, he was of the opinion that NAFO should manage that portion of the oceanic redfish resources in the NAFO Convention Area. Further, in their view, the proposed NAFO quota of 5000 tonnes as recommended in Point 3 of the W.G. W.P. 02/5 (Revision 4) was too small in comparison to the current distribution of the resources. Therefore, Lithuania recommended that a NAFO quota larger than 5000 tonnes should be established by the Fisheries Commission.

7. Other Matters

There were no other matters discussed.

8. Adjournment of the Meeting

The meeting adjourned at 1500 hours on June 25, 2002.

Annex 1. List of Participants

CANADA

Head of Delegation

D. Bevan, Director General, Resource Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 6794 – Fax +613 954 1407 – E-mail: bevand@dfo-mpo.gc.ca

Advisers

D. B. Atkinson, Regional Director, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 2027 - Fax: +709 772 6100 - E-mail: atkinsonb@dfo-mpo.gc.ca

J. Dwyer, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 - Fax: +709 772 2046 - E-mail: dwyerji@dfo-mpo.gc.ca

M. O'Connor, Manager, Fleet Operations and Government Relations, National Sea Products, 100 Battery Point, P. O. Box 910, Lunenburg, N.S. B0J 2C0
Phone: +902 634 5200 – Fax: +902 634 4926 – E-mail: michael.oconnor@highlinerfoods.com

M. Short, Special Advisor, NAFO, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 6369, Cell +709 682 5110 – E-mail: shortm@dfo-mpo.gc.ca

L. Strowbridge, Director, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 8021 - Fax: +709 772 2046 - E-mail: strowbridgel@dfo-mpo.gc.ca

R. Steinbock, Senior Advisor, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
Phone: +613 993 1836 - Fax: +613 993 5995 - E-mail: steinbob@dfo-mpo.gc.ca

DENMARK (IN RESPECT OF FAROES AND GREENLAND)

Head of Delegation

E. Lemche, Head of Representation, Grønlands Hjemmestyre, Pilestraede 52, Box 2151, DK-1016 Copenhagen K, Denmark
Phone: +45 33 69 34 35 - Fax: +45 33 69 34 01 - E-mail: el@ghsdk.dk

Alternate

A. Kristiansen, Ministry of Fisheries and Maritime Affairs, Yvirri við Strond 17, P. O. Box 347, FO-110 Torshavn, Faroe Islands
Phone: + 298 35 30 30 - Fax: +298 35 30 37 - E-mail: andrask@fisk.fo

Adviser

E. Rosing, Head of Unit, Dept. of Industry, Greenland Home Rule, Box 269, 3900 Nuuk, Greenland
Phone: +299 34 53 32 – Fax: +299 32 47 04 – E-mail: emanuel@gh.gl

EUROPEAN UNION

Head of Delegation

S. Ekwall, Administrator, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
Phone: +32 2 299 6907 - Fax: +32 2 295 5700 - E-mail: Staffan.Ekwall@cec.eu.int

Advisers

S. Feldthaus, Head of Section, Ministry of Food, Agriculture and Fisheries, Holbergsgade 2, 1057 Copenhagen, Denmark
Phone: +45 33 92 35 60 – Fax: +45 33 11 82 71 – E-mail: sfe@fvm.dk

H. Pott, Bundesministerium für Verbraucherschutz, Ernährung, und Landwirtschaft, Rochusstr. 7, 53123 Bonn, Germany
Phone: +49 228 529 4124 - Fax: +49 228 529 4410 – Email: Hermann.Pott@bmvel.de

K. Hartmann, Managing Director, Ocean Food GMBH & Co. KG, Hochseefischerei, Westkai 34, D-27572 Bremerhaven, Germany
Phone: +49 471 972 52 - 0 – Fax: +49 471 972 52 – 22 – E-mail: klaus@oceanfood.de

M. I. Aragon, Jefa Sección de la Subdirección General de Organismos Multilaterales de Pesca, Secretaría General de Pesca Marítima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 91 4025000 - Fax: +34 91 3093967 - E-mail: iaragonc@mapya.es

M. Mancebo, Subdirección General de Organismos Multilaterales de Pesca, Secretaría General de Pesca Marítima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 91 3476176 - Fax: +34 91 3476049

F. Gonzalez, Instituto Español de Oceanografía, Aptdo 1552, E-36280 Vigo (Pontevedra), Spain
Phone: +34 9 86 49 2111- Fax: +34 9 86 49 2351 – E-mail: fernando.gonzalez@vi.ico.es

M. Rimmer, Sea Fisheries Conservation Div. (Fish III), Department for Environment, Food and Rural Affairs, Room 423b Nobel House, 17 Smith Square, London SW1P 3JR
Phone: +44 (0)20 7238 6529 - Fax: +44 (0)20 7238 5721 - E-mail: mike.rimmer@defra.gsi.gov.uk

ICELAND

Head of Delegation

K. Arnason, Head of Division, Ministry of Fisheries, Skulagata 4, 150 Reykjavik
Phone: +354 560 9670 – Fax: +354 562 1853 – E-mail: kolbeinn.arnason@sjr.stjr.is

Advisers

T. Skarphedinsson, Legal Adviser, Ministry of Fisheries, Skulagata 4, 150 Reykjavik
Phone: +354 560 9670 – Fax: +354 562 1853 - E-mail: thorir@hafro.is

T. Sigurdsson, Marine Research Institute, Skulagata 4, 101 Reykjavik
Phone: +354 5520240 - Fax: +354 5623790 - E-mail: steini@hafro.is

JAPAN

Head of Delegation

Y. Kashio, Representative, Japan Fisheries Association, Suite 1209 Duke Tower, 5251 Duke St. Tower, Halifax, N.S., Canada B3J 1P3
Phone: +902 423 7975 - Fax: +902 425 0537 - E-mail: jfa-hfx@ns.sympatico.ca

LATVIA**Head of Delegation**

U. Rinkis, Senior Officer, Fisheries and Fish Resources Div., National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
 Phone: +371 733 4478 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv

Alternate

R. Derkacs, Head of International Agreements and Legal Division, National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
 Phone: +371 732 3877 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv

LITHUANIA**Head of Delegation**

V. Vaitiekunas, Director, Fisheries Dept. under the Ministry of Agriculture, 19 Gedimino str., Vilnius 2600
 Phone: +370 02 391174 – Fax: 37002 341176 – E-mail: vytautasv@zum.lt

Alternate

A. Rusakevicius, Fisheries Department under the Ministry of Agriculture, 19 Gedimino St., 2600 Vilnius
 Phone: +370 2 391183 - Fax: +370 2 391176 - E-mail: algirdasr@zum.lt

Adviser

A. Halldorsson, Lögmenn sf., Skipholt 50c, 105 Reykjavik, Iceland

NORWAY**Head of Delegation**

T. Lobach, Senior Legal Adviser, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
 Phone: +47 55 23 80 00 Fax: +47 55 23 80 90 E-mail: terje.lobach@fiskeridir.dep.no

Alternate

T. Thorvik, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
 Phone: +47 55 23 80 51 Fax: +47 55 23 80 90 E-mail: thorbjorn.thorvik@fiskeridir.dep.no

Adviser

W. Barstad, Norwegian Fishing Vessel Owners Association, P.O. Box 67 Sentrum, 6001 Aalesund
 Phone: +47 70 10 14 60 - Fax: +47 70 10 14 80 - E-mail: webjorn@fiskebatreder.no

POLAND**Head of Delegation**

L. Dybiec, Counsellor to the Minister, Ministry of Agriculture and Rural Development, Fisheries Department, Wspólna 30, 00-930 Warsaw
 Phone: +48 22 628 9684 – Fax: +48 22 623 2204 – E-mail: leszek.dybiec@minrol.gov.pl

Adviser

J. Janusz, Sea Fisheries Institute, Dept. of Biology and Fish Resources Conservation, 1, Kollataja str., 81-332 Gdynia
 Phone: +48 58 620 17 28 ext. 214 – Fax: +48 58 620 28 31 – E-mail: jjanusz@mir.gdynia.pl

RUSSIA**Head of Delegation**

A. Okhanov, Russian Representative on Fisheries in Canada, 47 Oceanview Drive, Bedford, Nova Scotia, Canada B4A 4C4
 Phone: +902 832 9225 – Fax: +902 832 9608 – E-mail: rusfish@ns.sympatico.ca

Advisers

V. Agalakov, Murmanrybvod, Komintern 5, Murmansk 183672
 Phone: +7 8152 453562 – Fax: +7 8152 456028 – E-mail: mrv@an.ru
 V. K. Babayan, Head of Laboratory for System Analysis of Fishery Resources, VNIRO, 17, V. Krasnoselskaya, Moscow 107140
 Phone: +7 095 264 6983 – Fax: +7 095 264 9187 – E-mail: vbabayan@vniro.ru
 K. V. Gorchinsky, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich St., Murmansk
 Phone: +7 8152 47 2532 – Fax: +7 8152 47 3331 – E-mail: inter@pinro.murmansk.ru
 S. F. Lisovsky, Knipovich Polar Research Institute of Marine Fisheries & Oceanography (PINRO), 6 Knipovich Street, Murmansk 183763
 Phone: +47 789 10518 – Fax: +47 789 10518 – E-mail: inter@pinro.murmansk.ru
 V. N. Shibnov, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich Street, Murmansk 183763
 Phone: +7 8152 47 26 14 – Fax: +7 8152 47 33 31 – E-mail: inter@pinro.murmansk.ru

UNITED STATES OF AMERICA**Head of Delegation**

D. E. Swanson, Chief, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Highway, Silver Spring, MD 20910
 Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: dean.swanson@noaa.gov

Adviser

R. Mayo, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543
 Phone: +508 495 2310 - Fax: +508 495 2393 - E-mail: ralph.mayo@noaa.gov

SECRETARIAT

L. I. Chepel, Executive Secretary
 T. Amaratunga, Assistant Executive Secretary
 F. D. Keating, Administrative Assistant
 B. J. Cruikshank, Senior Secretary
 G. Moulton, Conservation Measures/Statistical Officer

Annex 2. Agenda

1. Opening of the Meeting
2. Election of a Chairman
3. Appointment of Rapporteur
4. Adoption of Agenda
5. Review of the scientific advice on Oceanic Redfish, including the distribution of it in the Northwest Atlantic
6. Discussion of possible recommendations to the Fisheries Commission on the relationship and management process between NAFO and NEAFC
7. Other matters
8. Adjournment of the Meeting

Annex 3. Summary of the Scientific Advice from ICES
(Information Paper #1)

Answer to Special Request on Redfish

NEAFC requested information on:

- a) Review the stock situation and its advice for pelagic redfish in the Irminger Sea for 2002 at the May 2002 ACFM meeting.
- b) submit new information on stock identity of the components of redfish such as "pelagic deep-sea" *Sebastes mentella*, "oceanic" *Sebastes mentella* fished in the pelagic fisheries, and the "deep-sea" *Sebastes mentella* fished in demersal fisheries on the continental shelf and slope;
- c) provide information on the horizontal and vertical distribution of pelagic redfish stock components and fisheries in the Irminger Sea and adjacent waters as well as seasonal and interannual changes in distribution. Information on the vertical distribution should allow NEAFC to further consider the appropriateness of separate management measures for different geographical areas/seasons.

The request a) is addressed in the ACFM report, Section 3.2.6.d.

Request b): On further information on stock identity of redfish

An extensive discussion of the problem was made at NEAFC's request last year (Section 3.2.9 in the 2001 ACFM report). The request is also addressed as part of the introduction section 3.2.6.a in this year's report.

Some recent studies on genetics, biological markers, and fish distribution were presented to the Working Group in 2002. ICES considers that interpretations of the evidence on stock structure are still diverging and that individual indicators are inconclusive. Therefore the stock structure remains uncertain. Further studies are in progress.

Request c): Update information on the development of the pelagic fishery for redfish with respect to seasonal and area distribution to allow NEAFC to further consider the appropriateness of separate management measures for different geographical areas/seasons.

Observations indicate that since 1996 a) the fisheries in the Northeastern area in the first half of the year are occurring at depths deeper than 500 m and catching larger fish, and b) the fisheries in the Southwestern area in the second half of the year are mainly occurring at depths shallower than 500 m catching smaller fish. In last year's report there was a detailed description of the fishery. Below is an update to this information.

The geographical distribution of the catches by periods and years since 1995 is given in Figure 3.2.6.a.2. The fishery of these four nations (Germany (1995–2001), Iceland (1989–2001), Norway (1995–2001), Russia (1999–2000), and Greenland (1999–2001)) indicate that there was a similar pattern in the fishery since 1996. Fishing usually started in early April and up to the end of June it was prosecuted in areas east of 32°W and north of 61°N. In July and August, the fleet moves about 400–500 nautical miles to areas south of 60°N and west of about 34°W, where the fishery continues until October. There is very little fishing activity from November until late March. Figure 3.2.6.a.3 gives the locations of part of the Spanish activity in the Irminger Sea, and it shows that they had a similar pattern in 2000 and 2001 as the above-mentioned fleets. The same applies for the Russian fleet in 2001 (Figure 3.2.6.a.4). In the third quarter of the year the fishing has, in general, moved towards the southern part of the area, fishing mostly at depths shallower than

500 m, within Subarea XII as well as in the NAFO convention area, both outside and inside the Greenlandic EEZ. However, it is important to note that the described fishing pattern of the fleet changed significantly around 1995, mainly in terms of area and depth expansion. The changes in the fishing pattern as described above does not necessarily reflect changes in stock distribution, maybe due to commercial reasons.

Although the information on fishing depth is incomplete, except for the Icelandic, Faroese, and the Greenlandic fisheries, the general pattern is that the fishing in the first and second quarter of the year is mostly conducted deeper than 500 m. Further, although there are no haul-by-haul data available for the German catches, the available information shows that the fishery in the first two quarters was characterised by a fishery deeper than 450 m, and at shallower depths during the third and fourth quarters in 1995–2001. There is a similar pattern in the Spanish fishery. They were fishing deeper than 500 m in the second quarter of the year, and in the third quarter fishery continued at depths shallower than 500 m. The Greenland vessel participating in this fishery also reported all its catches taken above 400 m after July, and showed the same pattern as the Icelandic fleet in the first 2 quarters of the year.

Over 95% of all the fish caught in the pelagic redfish fishery are mature. The redfish caught in the Southwestern area are generally smaller than the fish caught in the Northeastern area (Figure 3.2.6.a.5), the dominant length classes being 33-38 cm in the Southwestern area, and 35 – 45 cm in the Northeastern area.

As has been reported in earlier reports of the Working Group, Iceland has classified its pelagic catches between oceanic and pelagic deep-sea redfish according to a contentious method. The results of this classification have shown that the proportion of fish classified as oceanic-type redfish has been very low during recent years, and only about 5% of the Icelandic catches were classified as oceanic type. The Icelandic fishery prior to 2001 was mostly concentrated on the pelagic deepsea fishery in the first half of the year in the Northeastern area. In 2001, the percentage of the oceanic type increased to about 1/3 of its quota, this being largely a result of increased effort in the Southwestern fishing area at depths shallower than 400 m. The increase in 2001 is due to the effort regulations in the fishery. Based on the samples, the results also indicate that shallower than 500–600 m depth, the proportion “oceanic” is between 85–100%, as the proportion deeper than 600 m is usually between 0–20%.

The above observations indicate that in the last three years a) the fishery in the Northeastern area in the first half of the year is occurring at depths deeper than 500 m and catching larger fish, and b) the fishery in the Southwestern area in the second half of the year is mainly occurring at depths shallower than 500 m catching smaller fish.

ICES recommends that NEAFC requests all nations participating in the pelagic redfish fishery to provide ICES with information on the trawling depth (headline depth for each haul as a log-book data), so ICES can have more detailed description of the fishery by season and areas as a basis for giving its advice on the resource.

Pelagic fishery for *Sebastes mentella* in the Irminger Sea

The stock structure of pelagic redfish *S. mentella* in Subarea XII, Division Va, and Subarea XIV, and in the NAFO Convention Area remains generally uncertain. There is a difference in the depth and geographical distribution of the two pelagic redfish types, namely the ‘oceanic *S. mentella*’, mainly above 500 meters and southwesterly in the Irminger Sea, and the ‘pelagic deep-sea *S. mentella*’, mainly below 500 meters and northeasterly in the Irminger Sea. There are no

indications that the pelagic *S. mentella* in the NAFO Convention Area are distinct from the stock(s) or components in the adjacent Irminger Sea.

State of stock/exploitation: The state of the stock is not precisely known. There are indications from acoustic surveys that the stock may have been larger in the early 1990s. Although variable, CPUE series from the commercial fisheries on both redfish types indicate no trend in the stocks since 1995. Biomass estimates from a survey in 2001 suggest a biomass in the order of 2 million tonnes, but this estimate is highly uncertain. Therefore it is not known if the current exploitation rate is above or below the 5% exploitation rate considered sustainable.

Management objectives: There is no explicit management objective for this stock.

Advice on management: The recent exploitation level seems not to have caused stock size reduction. For 2002 and 2003, ICES advises that TACs do not exceed current catch levels (including the NAFO Convention Area). The average catch in the last 5 years has been 119 thousand tonnes. In addition, ICES advises that management action should be taken to prevent a disproportional exploitation rate of any one component.

Relevant factors to be considered in management: Possible changes in the depth distribution of the two redfish types above and below 500 m combined with the differences in geographic coverage of acoustic surveys in different years, mean that the acoustic biomass series cannot be interpreted as a consistent series showing relative changes in stock size. The stock structure for pelagic *S. mentella* is unknown. Fishing patterns after 1995 resulted in 2 almost distinct fishing grounds in terms of geographic distribution and trawling depth. In 2000 and 2001, substantial catches were taken from the pelagic *S. mentella* aggregations discovered recently in the NAFO Convention Area. There may be a relationship between the demersal deep-sea *S. mentella* on the continental shelves of the Faroe Islands, Iceland, and Greenland and the pelagic *S. mentella* components in the Irminger Sea. This should be kept in mind in the management of these components.

Since this is a relatively new fishery on a long-lived, slow-growing species, ICES notes that monitoring of the stock is essential in order to keep track of biomass changes as they occur. Similarly, it is important to gather the information needed to evaluate the productivity of the stock. This includes information on recruitment, nursery areas, stock identification, and biomass estimation.

Nursery areas for both of the pelagic stock components are likely to be found at the continental slope off East Greenland. The juvenile redfish in these areas should, therefore, be protected and appropriate measures to reduce the by-catches in the shrimp fishery need to be taken.

Comparison with previous assessment and advice: The decline in the time-series of the acoustic survey has been the basis for the advice in past assessments. Less emphasis on the acoustic survey estimates has resulted in a change in the perception of stock trends. The decline in the acoustic estimators is no longer considered to represent stock decline only, but also changes in the availability of the *S. mentella* to the acoustical instruments. The assessment of the current state of the stock and the advice is based on standardized CPUE indices.

Elaboration and special comment: The pelagic fishery in the Irminger Sea is conducted only on the mature part (approximately 95% mature) of the stock. The fishery started in 1982. After decreasing from 1988–1991, mostly due to a reduction in Russian effort, landings increased. The increase in the catches from 1991–1996 is a direct consequence of increased fishing effort due to new fleets entering the fishery. However, the catches have been significantly lower during the last

5 years; at the same time the fishery has expanded into deeper water and the season has expanded from March to December.

The 2001 trawl-acoustic survey on pelagic redfish (*S. mentella*) in the Irminger Sea and adjacent waters was carried out in June/July. Approximately 420 000 square nautical miles were covered, which is the most extended coverage for acoustic assessment pelagic redfish in the Irminger Sea. The stock size measured with the acoustics was assessed to be about 715 000 t at depths down to the deep-scattering layer or about 350 m. The acoustic survey results (shallower than 500 m) indicate a stable stock situation size compared with the 1999 results. In 2001, as well as in 1999, the stock shallower than 500 m was observed more south-westerly and deeper than it has been during former acoustic surveys in the last decade.

By using information from trawl hauls biomass in the depth layers from 0-500 depth, including the layer where the redfish that was mixed with the deep-scattering layer, was estimated at about 1.1 mill. t. Such estimates are not directly comparable with the acoustic estimates shallower than 500 m depth and should be interpreted with care, due to their innovative nature. About 1.1 mill. t was estimated by using the information from the trawl hauls deeper than 500 m. At these depths, the densest concentrations were found in the NE part of the area (Figure 3.2.6.d.2). This method is still experimental and needs further development.

New survey information will be available after the June/July 2003 survey has been carried out.

Given the technical, seasonal, geographical, and depth changes of the fishing activities, the relevance of the estimated reduction in CPUE as indicator of stock abundance remains difficult to assess both above and below 500 m.

Data on maturity-at-length, and -at-weight and some age-reading experiments were available from both the survey and from the fishery. CPUE series are available for some fleets and as standardised series (Figures 3.2.6.d.1.a-c).

Source of information: Report of the Northwestern Working Group, 29 April – 8 May 2002 (ICES CM 2002/ACFM:20).

Catch data for oceanic and pelagic deep-sea *S. mentella* combined (Tables 3.2.6.d.1-3):

| Year | ICES Advice | Predicted catch corresp. to advice | Agreed TAC | ACFM Catch |
|------|--|--|--|------------------|
| 1987 | No assessment | - | | 91 |
| 1988 | No assessment | - | | 91 |
| 1989 | TAC | 90-100 | | 39 |
| 1990 | TAC | 90-100 | | 32 |
| 1991 | TAC | 66 | | 27 |
| 1992 | Preference for no major expansion of the fishery | - | | 66 |
| 1993 | TAC | 50 | | 116 |
| 1994 | TAC | 100 | | 149 |
| 1995 | TAC | 100 | | 176 |
| 1996 | No specific advice | - | 153 ¹ | 180 |
| 1997 | No specific advice | - | 153-158 ¹ | 123 ² |
| 1998 | TAC not over recent (1993-1996) levels of 150 000 t | | 153 ¹ | 117 ² |
| 1999 | TAC to be reduced from recent (1993-1996) levels of 150 000 t | | 153 ¹ | 110 ² |
| 2000 | TAC set lower than recent (1997-1998) catches of 120 000 t | 85 | 120 | 126 |
| 2001 | TAC less than 75% of catch 1997-1999 | 85 | 95 | 117 |
| 2002 | TAC less than 75% of catch 1997-1999 – Revised to be below current catch levels | 85 | Not agreed NEAFC proposal (120) | |
| 2003 | TAC not exceed current catch levels | 119 | | |

¹Set by NEAFC. ²Preliminary. (Weights in '000 t).

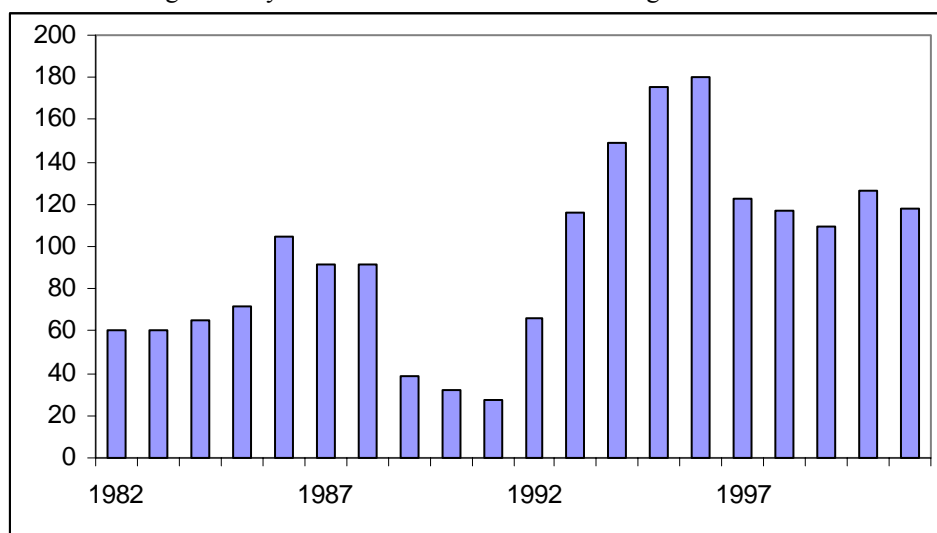
Pelagic fishery for *Sebastes mentella* in the Irminger Sea

Table 3.2.6.d.1 Results of dividing the Icelandic pelagic redfish catch (t) according to the Icelandic samples from the fishery.

| Year | Oceanic | Deep sea | Not classified | Catch Oceanic | Catch Deep sea | Total Catch |
|------|---------|----------|----------------|------------------|-------------------|----------------|
| 1995 | 72% | 27% | 0% | 25186 | 9445 | 34631 |
| 1996 | 45% | 52% | 3% | 29182 | 33721 | 62903 |
| 1997 | 36% | 64% | 0% | 14859 | 26417 | 41276 |
| 1998 | 10% | 85% | 4% | 5504 | 46780 | 52284 |
| 1999 | 15% | 85% | 0% | 6765 | 37159 | 43924 |
| 2000 | 5% | 95% | 0% | 2262 | 42970 | 45232 |
| 2001 | 34% | 66% | 0% | 14440 | 28032 | 42472 |

Table 3.2.6.d.2 Pelagic *S. mentella*. Landings (in tonnes) by area as used by the Working Group. Due to the lack of area reportings for some countries, the exact share in Subareas XII and XIV is just approximate in the latest years.

| Year | Va | Vb | VI | XII | XIV | NAFO 1F | NAFO 2H | NAFO 2J | Total |
|-------------------|--------|----|----|---------|---------|---------|---------|---------|---------|
| 1982 | 0 | 0 | 0 | 39,783 | 20,798 | | | | 60,581 |
| 1983 | 0 | 0 | 0 | 60,079 | 155 | | | | 60,234 |
| 1984 | 0 | 0 | 0 | 60,643 | 4,189 | | | | 64,832 |
| 1985 | 0 | 0 | 0 | 17,300 | 54,371 | | | | 71,671 |
| 1986 | 0 | 0 | 0 | 24,131 | 80,976 | | | | 105,107 |
| 1987 | 0 | 0 | 0 | 2,948 | 88,221 | | | | 91,169 |
| 1988 | 0 | 0 | 0 | 9,772 | 81,647 | | | | 91,419 |
| 1989 | 0 | 0 | 0 | 17,233 | 21,551 | | | | 38,784 |
| 1990 | 0 | 0 | 0 | 7,039 | 24,477 | 385 | | | 31,901 |
| 1991 | 0 | 0 | 0 | 10,061 | 17,089 | 458 | | | 27,608 |
| 1992 | 1,968 | 0 | 0 | 23,249 | 40,745 | | | | 65,962 |
| 1993 | 2,603 | 0 | 0 | 72,529 | 40,703 | | | | 115,835 |
| 1994 | 15,472 | 0 | 0 | 94,189 | 39,028 | | | | 148,689 |
| 1995 | 1,543 | 0 | 0 | 132,039 | 42,260 | | | | 175,842 |
| 1996 | 4,744 | 0 | 0 | 42,603 | 132,975 | | | | 180,322 |
| 1997 | 15,301 | 0 | 0 | 19,822 | 87,812 | | | | 122,935 |
| 1998 | 40,612 | 0 | 0 | 22,446 | 53,910 | | | | 116,968 |
| 1999 | 36,524 | 0 | 0 | 24,085 | 48,521 | 534 | | | 109,665 |
| 2000 | 44,677 | 0 | 0 | 19,862 | 50,722 | 10,815 | | | 126,076 |
| 2001 ¹ | 28,139 | 0 | 0 | 28,957 | 53,753 | 5,299 | 208 | 1,284 | 117,649 |

Table 3.2.6.d.3 Pelagic redfish *S. mentella*. Time-series of survey results, areas covered, hydro-acoustic abundance, and biomass estimates shallower and deeper than 500 m (based on standardized trawl catches converted into hydro-acoustic estimates derived from linear regression models).

| Year | Area covered (1000 NM ²) | Acoustic estimates < 500 m (10 ⁶ ind.) | Acoustic estimates < 500 m (1000 t) | Trawl estimates < 500 m (10 ⁶ ind.) | Trawl estimates < 500 m (1000 t) | Trawl estimates > 500 m (10 ⁶ ind.) | Trawl estimates > 500 m (1000 t) |
|------|--------------------------------------|---|-------------------------------------|--|----------------------------------|--|----------------------------------|
| 1991 | 105 | 3498 | 2235 | | | | |
| 1992 | 190 | 3404 | 2165 | | | | |
| 1993 | 121 | 4186 | 2556 | | | | |
| 1994 | 190 | 3496 | 2190 | | | | |
| 1995 | 168 | 4091 | 2481 | | | | |
| 1996 | 253 | 2594 | 1576 | | | | |
| 1997 | 158 | 2380 | 1225 | | | | |
| 1999 | 296 | 1165 | 614 | | | 638 | 497 |
| 2001 | 420 | 1370 | 716 | 1955 | 1075 | 1446 | 1057 |

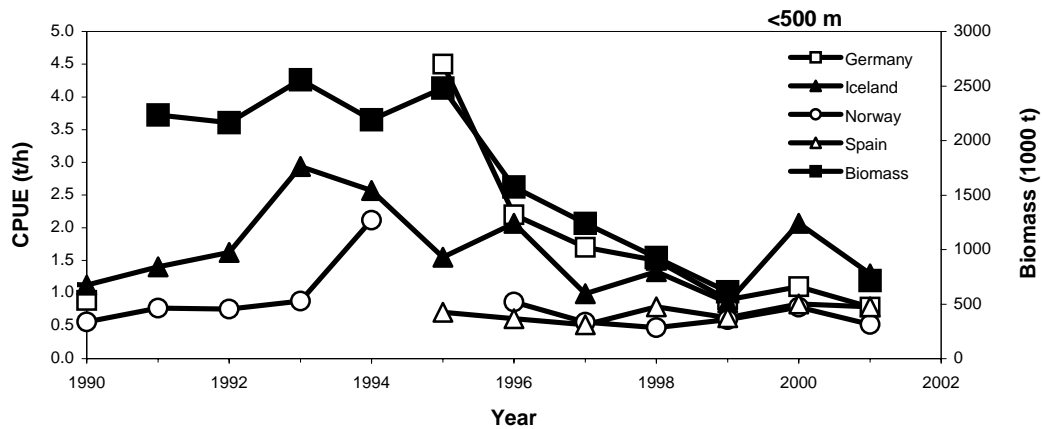


Figure 3.2.6.d.1.a Trends in CPUE of pelagic *S. mentella* fishery in the Irminger Sea, shallower than 500 m, and estimated acoustic biomass from surveys.

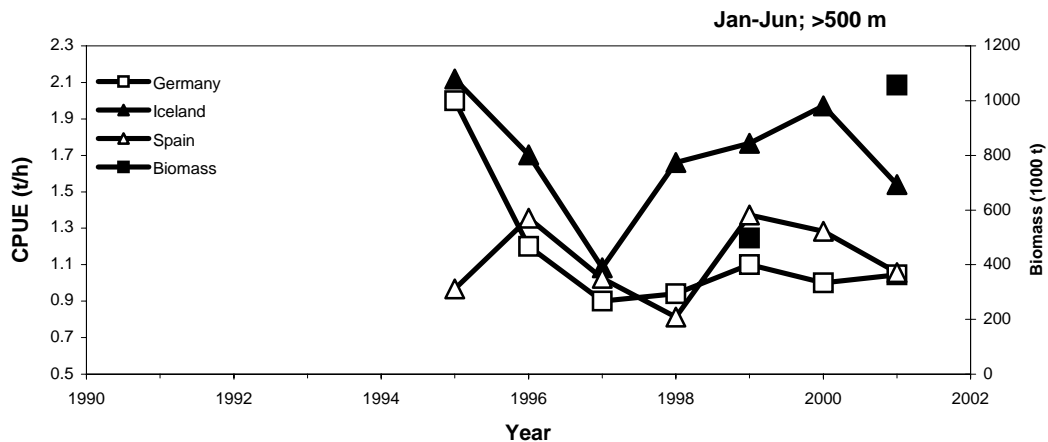


Figure 3.2.6.d.1.b Trends in CPUE of pelagic *S. mentella* fishery in the Irminger Sea, deeper than 500 m, and estimated trawl biomass from surveys.

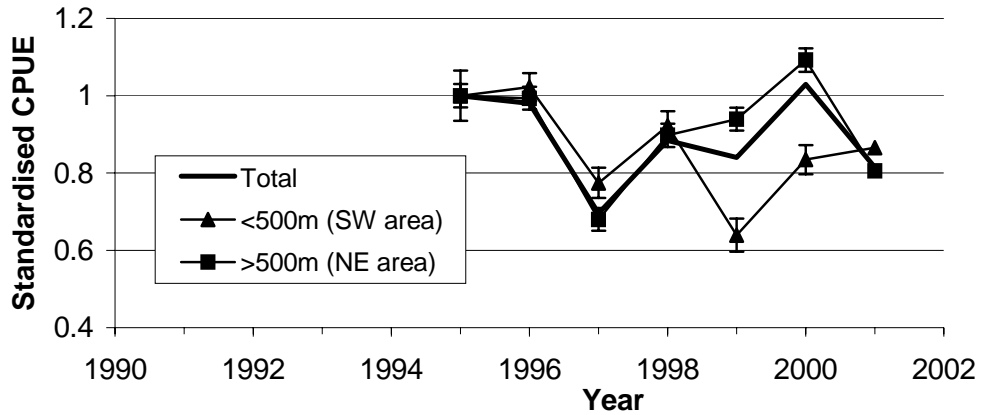


Figure 3.2.6.d.1.c Standardised CPUE, as calculated by using data from Germany (1995-2001), Iceland (1995-2001), Greenland (1999-2001), and Norway (1995-2001) in the GLM model (see chapter 10.2.2.), divided by depths shallower (southwestern area) and deeper than 500 m (northeastern area) and both depth layers (areas) combined (Total).

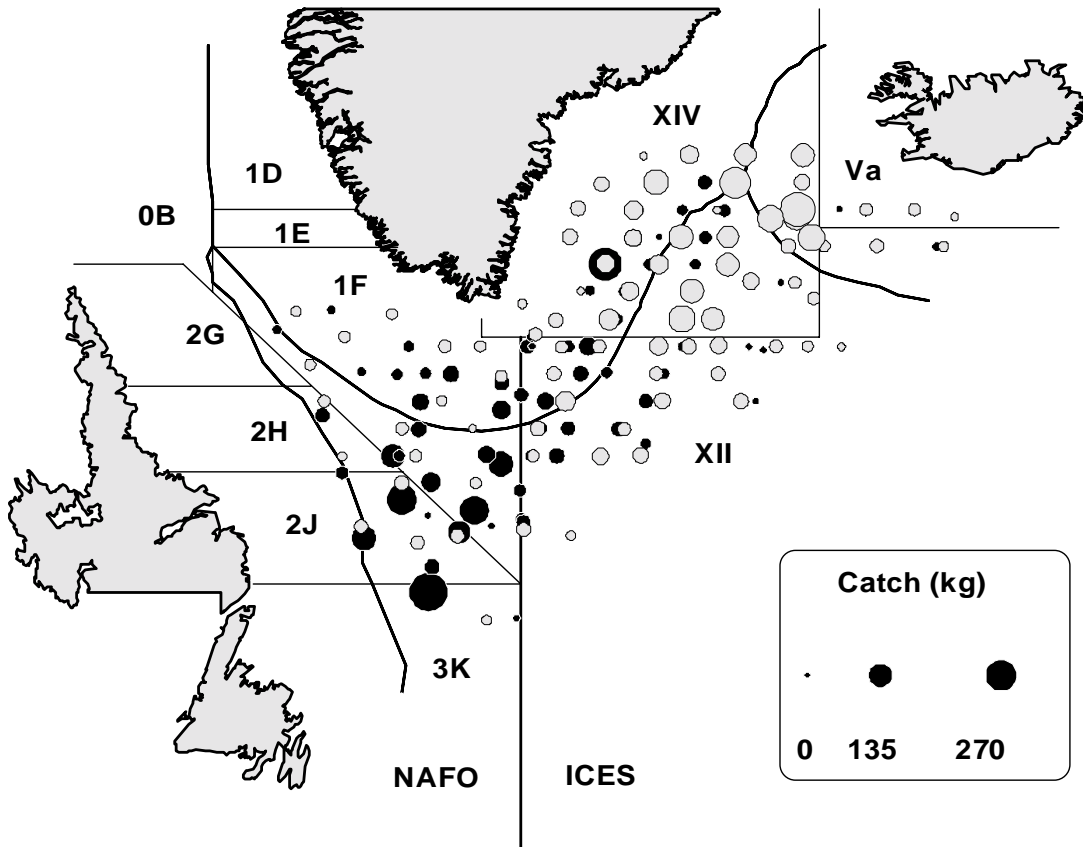


Figure 3.2.6.d.2 Pelagic redfish *S. mentella*. Standardised survey catches in June/July 2001 shallower than 500 m depth (black) and deeper than 500 m depth (grey).

**Annex 4. Scientific Council information to the
W.G. on Oceanic Redfish (W.G. W.P. 02/3)**

**Excerpt from SCS Doc. 02/19, Serial No. N4698
Report of the 6-20 June 2002 Scientific Council Meeting**

The following text was the Scientific Council response to the Fisheries Commission request for information on Pelagic *Sebastes mentella* (Redfish) prepared during the Scientific Council Meeting, 6-20 June 2002.

Pelagic *Sebastes mentella* in NAFO Subareas 1-3 and Adjacent ICES Area (Annex 1, Item 8)
(SCR Doc. 02/10, 19; SCS Doc. 02/18)

The Fisheries Commission requested:

“Regarding pelagic S. mentella redfish in NAFO Subareas 1-3 Scientific Council is requested to review the most recent information on the distribution of this resource, as well as on the affinity of this stock to the pelagic redfish resource found in the ICES Sub-area XII, parts of SA Va and XIV and to the shelf stocks of redfish found in ICES Sub-areas V, VI and XIV, and NAFO Subareas 1-3.”

The Council responded as follows:

At its September 2001 Meeting, Scientific Council reviewed the most recent information available on the distribution of pelagic *S. mentella* based on the July 2001 international acoustic survey (SCR Doc. 01/161). The Scientific Council’s conclusions on this subject can be found in *NAFO Sci. Coun. Rep.*, 2001, pages 211-212.

Scientific Council noted that the issue of possible relationships between pelagic *Sebastes mentella* and demersal *Sebastes mentella* in the NAFO area has not been considered by the ICES Working Group.

Scientific Council concludes that the recent report of the ICES North-Western Working Group presents the best available summary of knowledge about the distribution of pelagic *Sebastes mentella* and its affinity to the shelf stocks in the relevant ICES area. Possible relationships between pelagic *Sebastes mentella* and shelf *Sebastes mentella* (demersal) have not been studied in the NAFO area, and no data adequate to address this question exist. No national funds have been committed to this research area at present. Additional funding for specific research studies would be needed in order to address this topic.

Further to this subject, Scientific Council noted the following recommendations from Scientific Council from its June 2001 Meeting:

“annually, in advance of the meeting of the North-Western Working Group (next meeting tentatively scheduled for April 2002), Scientific Council members who will be participating identify themselves to the NAFO Secretariat who will work with the Chair of Scientific Council and designate formal representation of NAFO to the Working Group. The designated person(s) shall then report back on the ICES North-Western Working Group deliberations to the subsequent meeting of Scientific Council.

and

“the Chair of Scientific Council will interact with the Chair of the ACFM of ICES as required so that information on approved analyses and recommendations pertaining to the North-Western Working Group is shared and conveyed to NAFO Scientific Council for consideration as necessary.”

Scientific Council was provided a report on the deliberations of the ICES North-Western Working Group (NWWG) meeting that took place from April 28 to May 8, 2002 in Copenhagen as it pertains to stock structure, distribution and state of pelagic *Sebastes mentella* in ICES Sub-areas V, XII and XIV and the NAFO Convention area. New information was presented on the general issue of stock structure within this whole area. The genetic structure of the pelagic and demersal stocks of deep-sea redfish (*S. mentella*) in the North Atlantic remains poorly known, but further research is currently being carried out. However, Scientific Council agreed with the NWWG that, based on the data available, all information suggests that the fishery for pelagic *S. mentella* in the NAFO Convention Area (eastern part of Div. 1F, 2H and 2J) is based on the same stock as fished in western part of ICES Sub-area XII.

Scientific Council also noted the following as it pertains to the state of the pelagic *S. mentella* resource in ICES Sub-areas V, XII and XIV and the NAFO Convention area:

In the 2001 trawl-acoustic survey, as well as in that of 1999, the stock shallower than 500 m was observed more southwesterly and deeper than it has been during former acoustic surveys in the last decade. During the same period, a gradual increase in temperature in the observation area has been observed. This may have influenced the distribution pattern of the redfish in June-July as the highest concentrations were found in the colder, i.e. southwestern part of the survey area. In June/July 2001, about half of the total acoustically estimated stock biomass was found in the NAFO Convention Area shallower than 500 m omitting the Canadian EEZ. Scientific Council noted that the surveys in 1999 and 2001 extended further to the south and west into the NAFO Convention Area and this may in past account for the perception of greater distribution to the west.

Since 1994, acoustic estimates of stock biomass show a drastic decreasing trend. The estimate was only 0.7 million tons in 2001, compared with 2.2 and 1.6 and 0.6 million tons in 1994, 1996 and 1999, respectively. This represents a reduction of about 1.5 million tons in the period. During the same period, the total catch has been about 800 000 tons. Therefore, the catch alone cannot explain the changes in the stock estimate. During the same period, the fishery has also developed towards greater depth and towards bigger fish, and in recent years, the majority of the catch has been caught at depths deeper than 500 m. Based on these results, the NWWG concluded that acoustic estimates cannot be considered accurate measures of relative changes in stock size of the upper layer fish, as availability may have changed during the surveyed period. Information suggests that fish inhabiting the upper layer may have migrated out of the surveyed area, both horizontally and vertically (deeper). Scientific Council agreed with this evaluation.

In addition to the acoustic measurements, an attempt was made to estimate the redfish in and below the deep scattering layer. This was done by correlating catches and acoustic values at depths between 100 and 450 m. The obtained correlation was used to convert the trawl data at greater depths to acoustic values and subsequently to an abundance and biomass estimate. Standardized trawl hauls were carried out at different depth intervals, evenly distributed over the survey area. Data for the correlation calculations between trawl catches and the acoustic results were obtained during trawling only. In addition, scrutinized acoustic values were only taken from exactly the same position and depth range as covered by the trawl. Using this method, a total of approximately 1 075 000 tons were estimated to be at depths between 0 and 500 m. and about 1 056 000 tons below 500 m. In June/July 2001, one third of the biomass obtained with the trawl

method of about 2 million tons was found in the NAFO Convention Area outside the Canadian EEZ. The NWWG considered that the low correlation between catch and the acoustic values used for abundance estimation and the assumption that catchability of the trawl is the same, regardless of the trawling depth, make the method questionable. Estimates based on these calculations both above and below 500 m depth, must be considered as a very rough measure with high uncertainty as the applicability of the method can only be verified after replicate measurements. The NWWG considered that the estimated abundance derived from the trawl data should be treated with great caution and they cannot be combined with the acoustic results. Scientific Council agreed with this evaluation.

The trend in unstandardized CPUE from different fleets in depths shallower than 500 m indicates a steep downward trend since 1995, and the trend in acoustic estimates from the surveys (described above) track these changes. In recent years, there is no clear signal in CPUE, but it should be noted that CPUE decreased between 2000 to 2001 for most indices, both shallower and deeper than 500 m. The results of a standardized CPUE analysis, derived from a GLM CPUE model incorporating data from Germany (1995-2001), Iceland (1995-2001), Greenland (1999-2001) and Norway (1995-2001) were available. The model takes into account year, month, vessel and area (ICES statistical square). The model shows that the index did decrease until 1997 and increased thereafter until 2000 and decreased by about 15% in 2001. Given the technical, seasonal, geographical and depth changes of the fishing activities, the NWWG considered that the relevance of the unstandardized national CPUE series as indicator of stock abundance remains difficult to assess. However, from the standardized CPUE series, the NWWG stated that it can be concluded that the pelagic redfish CPUE remained stable since 1995 for all fishing areas as well as separated above and below 500 m depth. The models do not indicate significant stock reductions since 1995. Scientific Council considered that CPUE (standardized or not) in hours fished for redfish can be misleading and may be optimistic. Scientific Council does not consider this a reliable indicator of stock status since redfish exhibit schooling behavior and relatively good catch rates may still be possible while the area of the distribution of the resource is declining or number of schools is diminishing.

The decline in the acoustic survey time series estimates has been the basis for the advice in past assessments. The assessment of the current state of the stock and basis of the advice is based on trends in standardized CPUE indices and a trawl biomass estimator that is based on an approach that is highly uncertain. The NWWG concluded that taking into account the uncertainty in stock indicators, it is not known if the exploitation rate generated by recent catches is above or below the 5% exploitation rate.

In summary, Scientific Council concluded that a stronger statement should be made about the uncertainty in the stock status of pelagic *S. mentella* resource in ICES Sub-areas V, XII and XIV and the NAFO Convention Area, particularly for the considerations that the standardized CPUE series do not indicate significant stock reductions since 1995.

Excerpt from NAFO Scientific Council Reports, 2001 (p.211-212)

4. Update on Pelagic *S. mentella* (Redfish) in Division 1F and Adjacent ICES Area

Regarding redfish in Division 1F, the Fisheries Commission requested (see Agenda Annex 1, Item 12) the Scientific Council to: *review all available information on the distribution of this resource over time, as well as on the affinity of this stock to the pelagic redfish resource*

found in the ICES Sub-area XII, parts of SA Va and XIV or to the redfish found in NAFO Sub-areas 1-3.

The Council responded:

The Council noted STACFIS at this meeting reviewed new information on the stock size and distribution of pelagic *Sebastes mentella* in NAFO Convention Area (Div. 1F, 2GHJ, 3K) and ICES Divisions XIV, XII and Va. (NAFO SCR Doc. 01/161). EU-Germany, Iceland, Russia and Norway carried out an ICES co-ordinated trawl-acoustic survey in June/July 2001. Five vessels participated and over 420 000 sq. naut. miles were covered. The stock size measured with the acoustic instruments was assessed to be about 715 000 tons at depths down to the deep-scattering layer (to about 350 m), with redfish having a mean length of 34.6 cm. Highest concentrations of redfish were in the southwest part of the area covered. The redfish was also mixed with the deep scattering layer. In addition to the acoustic measurements, an attempt was made to estimate the redfish in and below the deep scattering layer. This was done by correlating catches and acoustic values at depths between 100 and 450 m. The obtained correlation was used to transfer the trawl data at greater depths to acoustic values and from there to abundance. A total of approximately 1 075 000 tons were estimated to be at depths between 0 and 500 m and about 1 056 000 tons below 500 m depth. Below 500 m, the densest concentrations were found in the northeastern part of the area. The average length of the fishes caught below 500 m was 38.3 cm. The estimated abundance derived from the trawl data should be treated with great caution and they cannot be combined with the acoustic results. The preliminary data evaluation did not indicate significant changes in the stock size or distribution as compared with 1999 survey results.

A decreasing trend in the proportion of females at shallower water than 500 m during the last decade, but whether it is related to overexploitation of the females is not known. During the survey in 2001, recruits (25-30 cm) were observed, particularly in the western most area of the investigation; the western part of NAFO Div. 1F but also in the eastern parts of Div. 2H and 2J.

Fisheries of various fleets were discussed and various nations reported that little effort was directed towards pelagic *Sebastes mentella* in the NAFO Regulatory Area in 2001 up to date.

Council noted that a review on information about the stock structure of pelagic *Sebastes mentella* was presented during the NAFO Symposium on Deep-sea Fisheries (12-14 September 2001, Varadero, Cuba) and that there was no consensus with regard to various hypotheses.

Annex 5. NAFO Management Measures re Oceanic Redfish

(Extracted from FC Doc. 01/7-Report of the Special Fisheries
Commission Meeting, 28-30 March 2001, Copenhagen, Denmark)
- Also "rolled-over" for 2002

Proposal re Oceanic Redfish in Div. 1F
(FC Doc. 01/4)

The management of Oceanic Redfish in 1F entails issues involving the reconciliation of conservation and enforcement measures for the stock in two adjacent convention areas (NAFO and NEAFC). In order to permit Contracting Parties adequate time to consider these issues, to ensure conservation of the stock and to facilitate fishing opportunities in 2001 without prejudice to the right of Contracting Parties to advance allocation arguments at future meetings of the NAFO Fisheries Commission, the Fisheries Commission adopts the following proposal:

1. Add the following column to the 2001 NAFO Quota Table:

| | Oceanic Redfish ⁹ |
|---|------------------------------|
| | <u>Div. 1F</u> |
| Denmark (in respect of Faroe Islands & Greenland) | 24,169 |
| European Union | 13,883 |
| Iceland ¹⁰ | 27,008 |
| Norway | 3,596 |
| Poland | 1,000 |
| Russia | 24,169 |
| Canada | |
| Estonia | |
| Japan | |
| Latvia | |
| Lithuania | |
| | 1,175 |
| <hr/> | |
| | 95,000 ¹¹ |

Footnote 9: These quotas are set on the basis of the TAC of 95,000 tons established by NEAFC for 2001. Quantities taken in the NEAFC Convention Area shall be deducted from the quotas mentioned.

Footnote 10: Iceland has objected to the NEAFC management measures for oceanic redfish for 2001. Iceland will however limit its fisheries in the NAFO Regulatory Area to 27,008 tons in 2001.

Footnote 11: Each Contracting Party shall notify the Executive Secretary bi-weekly of catches taken by its vessels from this stock in Div. 1F. The Executive Secretary shall notify without delay all Contracting Parties of the date on which, for this stock, accumulated reported catch taken by vessels of the Contracting Parties is estimated to equal 15,000 tons and then 30,000 tons.

2. This measure will not enter into force before NEAFC has established measures to the effect that catches of oceanic redfish in the NAFO Convention Area will be deducted from the NEAFC quotas for 2001.
3. It is understood that when fishing in Division 1F, NAFO Conservation and Enforcement Measures will apply.

4. Catches in Division 1F not to exceed 30,000 tons in 2001.
5. This arrangement applies to 2001 only and is without prejudice to sharing arrangements for this stock in future years.

Annex 6. Measure adopted by NEAFC on Pelagic Fishery for Redfish for 2002

NEAFC AM 20-51

NEAFC 20th Annual Meeting

Agenda item 7a

For Decision

PROPOSAL BY DENMARK (IN RESPECT OF FAROE ISLANDS AND GREENLAND) FOR A NEAFC RECOMMENDATION ON MANAGEMENT MEASURES ON PELAGIC FISHERY FOR REDFISH FOR 2002

The Parties of NEAFC agreed to take as a basis a provisional TAC (Total Allowable Catch) for redfish¹ of 95.000 tonnes.

In accordance with Articles 5 and 6 in the Convention, NEAFC recommends the following measures for redfish, fished with pelagic trawls in the Convention area excluding the Icelandic EEZ:

1. Quotas

| | |
|--|---------------------------|
| a) Denmark (in respect of Faroe Islands and Greenland) | 24.169 tonnes |
| b) EU | 13.883 tonnes |
| c) Norway | 3.596 tonnes |
| d) Poland | 1.000 tonnes |
| e) Russia | 24.169 tonnes |
| f) Co-operation Quota | 1.175 tonnes ² |

Quotas excluding discards.

2. Transfer

Contracting Parties are free to transfer quantities of their quota to other Contracting Parties. All transfers shall be reported promptly to the Secretariat.

3. Mesh size

It is prohibited to use trawls with a mesh size of less than 100 mm.

4.

This recommendation may be revised on the basis of any new scientific advice from ICES.

¹ Oceanic *Sebastes mentella* and pelagic deep sea *Sebastes mentella*.

² Of which not more than 587,5 tonnes may be fished in the months January-April inclusive, and not more than 1.175 tonnes may be fished in the months May-December inclusive.

NEAFC SUPPLEMENTARY MANAGEMENT MEASURES ON PELAGIC FISHERY FOR REDFISH

(Adopted by postal vote and effective from 8 April 2002).

NEAFC's Contracting Parties agree to supplement the Recommendation on management measures on pelagic fishery for redfish in Annex G in the Report from the 20th Annual Meeting with the text below:

Commensurate to the decision in the Fisheries Commission of NAFO on oceanic redfish, NEAFC adopts the following measure:

1. Quotas

Catches of redfish, fished with pelagic trawls in the NAFO Convention Area, Div. 1F, shall be deducted from the quotas established in the NEAFC Convention Area.¹

2. Period

The measure pertains to all of 2002.

¹In addition to compliance with NAFO reporting rules, Contracting Parties are encouraged to report catches of Oceanic Redfish in NAFO Division 1F to the NEAFC Secretariat in the same format as catches from the NEAFC Convention Area.

**Annex 7. Proposal re Oceanic Redfish (pelagic *Sebastes mentella*)
in NAFO SA 2 and Divisions 1F and 3K
(Redfish W.G. W.P. 02/5-Revision 4)**

The management of Oceanic Redfish in NAFO SA 2 and Divisions 1F and 3K entails issues involving the reconciliation of conservation and enforcement measures for the stock in two adjacent convention areas (NAFO and NEAFC).

The Working Group recommends that the Fisheries Commission of NAFO, as long as the Oceanic Redfish fishery in the NAFO Convention Area continues, establish quotas of Oceanic Redfish for the NAFO Convention Area. Recognizing that this will require consultations between NAFO and NEAFC on a potential sharing arrangement and without prejudice to the right of Contracting Parties to advance allocation positions at future meetings of the NAFO Fisheries Commission, the Working Group recommends that the Fisheries Commission adopt the following proposal for 2003:

1. Add the following column to the 2003 NAFO Quota Table:

| | Oceanic Redfish (Pelagic <i>Sebastes mentella</i>) |
|---|--|
| | NAFO SA 2 and Divisions 1F and 3K |
| Denmark (in respect of Faroe Islands & Greenland) | To be determined as per point 2 below. |
| European Union | |
| Iceland | |
| Norway | |
| Poland | |
| Russia | |
| Contracting Parties who are not members of NEAFC | To be determined as per points 3 and 4 below. |

2. NEAFC will establish the 2003 TAC for Oceanic Redfish and the associated quota table applicable to NEAFC Contracting Parties. Quantities taken in the NEAFC Convention Area shall be deducted from the quotas mentioned.
3. The Working Group recommends that the Fisheries Commission of NAFO, after consultations with NEAFC, establish a quota of 5,000 tons from the 2003 TAC that NEAFC will establish, for allocation by the Fisheries Commission to NAFO Contracting Parties who are not NEAFC Contracting Parties, to be fished in the NAFO Convention Area.

4. The Fisheries Commission should establish a quota key or other means of sharing the quota to be fished by Contracting Parties who are not NEAFC Contracting Parties. In addition, the Fisheries Commission should establish relevant reporting requirements.
5. Combined catches in the NAFO Convention Area for Contracting Parties who are also NEAFC Contracting Parties shall not exceed 25,000 tons in 2003. These Contracting Parties shall notify the Executive Secretary bi-weekly of catches taken by its vessels from this allocation. The Executive Secretary shall notify without delay all Contracting Parties the dates on which accumulated reported catch taken by vessels of Contracting Parties who are members of NEAFC is estimated to equal 12,500t and then 25,000t.
6. It is understood that when fishing in NAFO SA 2 and Divisions 1F and 3K, NAFO Conservation and Enforcement Measures shall apply.
7. This arrangement applies to 2003 and is without prejudice to sharing arrangements for this stock in future years.

SECTION VI
(pages 217 to 279)

**Report of the Drafting Group to Overhaul the
NAFO Conservation and Enforcement Measures
9-11 July 2002
Ottawa, Canada**

| | |
|--|-----|
| Report of the Drafting Group to Overhaul the NAFO Conservation and Enforcement Measures | 219 |
| Annex 1. List of Participants | 220 |
| Annex 2. Draft Revision of the Conservation and Enforcement Measures | 222 |
| Annex 3. Items Requiring Further Consideration by the Drafting Group | 276 |
| Annex 4. Items Requiring Guidance from STACTIC | 277 |

**Report of the Drafting Group to Overhaul the
NAFO Conservation and Enforcement Measures**

(FC Doc. 02/12)

**9-11 July 2002
Ottawa, Canada**

1. The Drafting Group met in Ottawa from 9-11 July 2002.
2. Participants are listed in **Annex 1**.
3. The Drafting Group adhered to its mandate to identify and remove redundancies and inconsistencies in the NAFO Conservation and Enforcement Measures. The Drafting Group made considerable progress in its mandate, helped by the provision of a base text by the European Commission.
4. A draft revision of the Conservation and Enforcement Measures, which reflects a high degree of consensus, is attached as **Annex 2**. It should be noted that this revision is a work in progress and further consideration of a variety of issues is still needed by the Drafting Group and guidance is required from STACTIC on a number of substantive changes. Due to a lack of time, there were a number of items, including the Annexes of the Conservation and Enforcement Measures, which the Drafting Group was not able to focus on. These are listed in **Annex 3**. Issues which the Drafting Group identified as possible substantive changes are listed in **Annex 4**.
5. The Drafting Group agreed that its report should be submitted to STACTIC at its 2002 meeting and circulated by email by the Executive Secretary to all Contracting Parties as far in advance as possible of that meeting.
6. The Drafting Group noted that any new measures that may be adopted by the Fisheries Commission will need to be incorporated into the revision. To prevent continuous revision, the Drafting Group was hopeful that a finalized text could be submitted for adoption by the Fisheries Commission at the 2003 annual meeting.

Annex 1. List of Participants

CANADA

Head of Delegation

Mr. Leo Strowbridge, Director, Special Programs, Fisheries Management, Newfoundland Region, Department of Fisheries and Oceans, P.O. Box 5667, St. John's, Nfld., Canada A1C 5X1
Phone: +709 772 8021 – Fax: +709 772 2046 – E-mail: strowbridgel@dfo-mpo.gc.ca

Advisers

Mr. David Bevan, Director General, Resource Management, Department of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario, Canada K1A 0E6

Phone: +613 990 6794 – Fax: +613 954 1407 – E-mail: bevand@dfo-mpo.gc.ca

Ms. Judy Dwyer, Corporate and International, Newfoundland Region, Department of Fisheries and Oceans, P.O. Box 5667, St. John's, Newfoundland, Canada A1C 5X1

Phone: +709 772-8831 – Fax: +709 772-2046 – E-mail: dwyerj@dfo-mpo.gc.ca

Ms. Allison Saunders, Oceans Law Section (JLOA), Department of Foreign Affairs and International Trade, 125 Sussex Drive, Ottawa, Ontario, Canada K1A 0G2

Phone: +613 996-2643 – Fax: +613 992-6483 – E-mail: allison.saunders@dfait-maeci.gc.ca

Mr. Robert Steinbock, Senior Fisheries Adviser, International Directorate, Department of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario, Canada K1A 0E6

Phone: +613 993-1836 – Fax: +613 993-5995 – E-mail: steinbob@dfo-mpo.gc.ca

EUROPEAN UNION (EU)

Head of Delegation

Mr. Staffan Ekwall, Administrator, Baltic, North Atlantic and North Pacific, European Commission, Directorate General for Fisheries, Rue de la Loi/ Westraat 200, B-1049 Brussels, Belgium

Phone: +32 2 299 6907 – Fax: +32 2 299 4802 – E-mail: Staffan.Ekwall@cec.eu.int

Advisers

Mr. Martin Newman, Principal Administrator, European Commission, Directorate General for Fisheries, Rue de la Loi/ Westraat 200, B-1049 Brussels, Belgium

Phone: +32 2 295 7449 – Fax: +32 2 296 2338 – E-mail: martin.newman@cec.eu.int

Mr. Fred Kingston, Senior Adviser, Economic and Commercial Affairs, Delegation of the European Commission, 45 O'Connor Street, Suite 1900, Ottawa, Ontario, Canada K1P 1A4

Phone: +613 238-6464 – Fax: +613 238 5191 – E-mail: fred.kingston@delcan.cec.eu.int

UNITED STATES OF AMERICA

Head of Delegation

Ms. Jennifer Anderson, Fishery Biologist, Protected Resources Division, Northeast Region, National Marine Fisheries Service, Department of Commerce, One Blackburn Drive, Gloucester, MA, USA 01930

Phone: +978 281 9226 – Fax: +978 281 9394 – E-mail: jennifer.anderson@noaa.gov

Advisers

Mr. Gene Martin, Attorney, Office of General Counsel, Northeast Region, National Oceanic and Atmospheric Administration, Department of Commerce, One Blackburn Drive, Gloucester, MA, USA 01930

Phone: +978 281 9242 – Fax: +978 281 9389 – E-mail: Gene.S.Martin@noaa.gov

Lieutenant Commander Peter Martin, Coast Guard Liaison Officer, Office of Marine Conservation
(Rm 5806), Department of State, 2201 C Street NW, Washington DC, USA 20520
Phone: +202 647 3177 – Fax: +202 736 7350 – E-mail: pmartin@comdt.uscg.mil

Annex 2. Draft Revision of the Conservation and Enforcement Measures

(Note: Points in the text where graphics and tables would be inserted is marked. However, the graphics and tables themselves do not appear.)

**Northwest Atlantic Fisheries Organization
Conservation and Enforcement Measures**

Table of Contents

| | |
|---|------------|
| Article 1 – Scope..... | 223 |
| Definitions..... | 223 |
| Chapter I – Conservation and Management Measures | 224 |
| Article 3 – Quotas | 224 |
| Article 4 – Cod in Divisions 2J3KL..... | 224 |
| Article 5 – Shrimp in Division 3M..... | 225 |
| Article 6 – Shrimp in Division 3L..... | 225 |
| Article 7 – Closed Fisheries | 225 |
| Article 8 – Quota Adjustments..... | 226 |
| Article 9 – By-catch Requirements | 226 |
| Article 10 – Gear Requirements..... | 227 |
| Article 11 – Minimum Fish Size Requirements..... | 228 |
| Article 12 – Area and Time Restrictions..... | 228 |
| Chapter II – Control Measures | 228 |
| Article 13 – Chartering Arrangements | 228 |
| Article 14 – Notification Requirements | 229 |
| Article 15 – Vessel Requirements..... | 229 |
| Article 16 – Marking of Gear..... | 230 |
| Article 17 – Transshipment Restriction | 230 |
| Article 18 – Product Labelling Requirements | 230 |
| Chapter III – Monitoring of Fisheries | 230 |
| Article 19 – Recording of Catch | 230 |
| Article 20 – Reporting of Catch and Fishing Efforts..... | 231 |
| Article 21 – Hail System | 231 |
| Article 22 – Observer Program | 232 |
| Article 23 – Vessel Monitoring System (VMS)..... | 233 |
| Chapter IV – Joint Inspection and Surveillance Scheme..... | 234 |
| Article 24 – General Provisions | 234 |
| Article 25 – Notification Requirements | 235 |
| Article 26 – Inspectors | 236 |
| Article 27 – Surveillance Procedure..... | 236 |
| Article 28 – Inspection Procedure..... | 237 |
| Article 29 – Obligations of Vessel Masters During Inspection..... | 238 |
| Article 30 – Inspection Reports..... | 239 |
| Article 31 – Procedures to Deal with Infringements | 239 |
| Article 32 – Serious Infringements | 241 |
| Article 33 – Follow-up to Infringements..... | 241 |
| Article 34 – Treatment of Reports from Inspectors..... | 242 |

| | |
|---|------------|
| | 223 |
| Article 35 – Report on Infringements..... | 242 |
| Article 36 – Reports on Inspection and Surveillance Activities..... | 242 |
| Article 37 – Interpretation or Application..... | 243 |
| Chapter V – Inspections in Port..... | 243 |
| Article 38 – Port Inspection Procedures..... | 243 |
| Article 39 – Transmission of Port Inspection Reports | 244 |
| Annex 1 – Annual Quota Table..... | 244 |
| Annex 2 – List of Species..... | 245 |
| Annex 3 – Gauges | 249 |
| Annex 4 – Chafers..... | 249 |
| Annex 5 – Minimum Fish Size..... | 251 |
| Annex 6 – Notification of Vessels..... | 251 |
| Annex 7 – Vessel Documents | 252 |
| Annex 8 – Definitions of Mesh | 252 |
| Annex 9 – Recording of Catch (Logbook Entries)..... | 254 |
| Annex 10 – Cumulative Catches | 257 |
| Annex 11 – Hail System Format | 257 |
| Annex 12 – VMS Data Format..... | 260 |
| Annex 13 – Inspection Guidelines | 261 |
| Annex 14 – Document of Identity | 261 |
| Annex 15 – Surveillance Report Form..... | 262 |
| Annex 16 – Inspection Report..... | 264 |
| Annex 17 – Inspection Questionnaire | 268 |
| Annex 18 – Inspection Pennants | 270 |
| Annex 19 – Boarding Ladder | 270 |
| Annex 20 – Boarding from Helicopter..... | 272 |
| Annex 21 – NAFO Inspection Seal..... | 275 |
| Annex 22 – Port Inspection Report | 275 |

Article 1

Scope

1. These Measures shall, unless otherwise provided, apply to all fishing vessels used or intended for use for the purposes of commercial fishing activities conducted on fisheries resources in the Regulatory Area as defined in Article I of the NAFO Convention.
2. Unless otherwise provided, research vessels shall not be restricted by conservation and management measures pertaining to the taking of fish, in particular, concerning mesh size, size limits, closed areas and seasons.

Article 2

Definitions

1. “fishing vessel” means any vessel which is or has been engaged in commercial fishing operations, including fish processing vessels and vessels engaged in transshipment or any other activity in preparation for or related to fishing, including experimental or exploratory fishing;
2. “research vessel” means any permanent research vessel or vessel normally engaged in commercial fishing or fisheries support activity employed or chartered for fishery research, which has been duly notified to the Executive Secretary;

Chapter I
CONSERVATION AND MANAGEMENT MEASURES

Article 3
Quotas

1. Each Contracting Party shall limit its catches of the stocks listed in Annex 1 so that neither the quota allocated to a Contracting Party nor the quota allocated to "Others" is exceeded.
2. Each Contracting Party to which a quota has been allocated shall close its fishery in the Regulatory Area for the stocks listed in Annex 1 on the date on which the accumulated reported catch, the estimated unreported catch, the estimated quantity to be taken before the closure of the fishery and the likely by-catches during the period to which the quota applies, equal 100 percent of the quota allocated to that Contracting Party. Such Contracting Party shall promptly notify the Executive Secretary of the date on which that Party will close its fishery for the stocks concerned. The Executive Secretary shall promptly inform all other Contracting Parties of such notification.
3. Each Contracting Party which has not been allocated a quota of a particular stock listed in Annex 1 shall be allowed to fish on the quota allocated to "Others". Those Contracting Parties shall notify the Executive Secretary, at least 48 hours in advance, of their vessels intended to fish on such a quota. This notification shall, if possible, be accompanied with an estimate of the projected catch. Those Contracting Parties shall report to the Executive Secretary, at 48-hour intervals, the catches taken by their vessels on such quotas.
4. The Executive Secretary shall notify, by the most rapid electronic means available, all Contracting Parties of the date on which the accumulated reported catch, the estimated unreported catch, the estimated quantity to be taken before the closure of the fishery and the likely by-catches during the period to which the quota applies, equal 100 percent of the quota allocated to "Others" in Annex 1 for a particular stock.
5. Each Contracting Party which has not been allocated a quota for a particular stock shall, within 7 days of the date of issue of such electronic notification by the Executive Secretary, close its fishery in the Regulatory Area for that stock, except for by-catches in directed fisheries for other stocks.

Article 4
Cod in Divisions 2J3KL

1. The Fisheries Commission shall obtain annually the decision of Canada on the limit it has established for catches by Canadian fishers. This decision shall take into account the assessment of this stock by the Scientific Council. This limit shall be 95% of the TAC for this stock.
2. The Fisheries Commission shall establish a catch limit in the Regulatory Area that shall apply to the other Contracting Parties. This limit shall be 5% of the TAC for this stock.
3. The total of the catch limits set in accordance with paragraphs 1 and 2 shall constitute the TAC for 2J3KL cod.
4. The distribution key that shall apply for the 5% figure when the fishery in the Regulatory Area is resumed shall be 65.4% for the EU and 34.6% for the other Contracting Parties.
5. The measures in this article shall apply when a decision is taken to allow the resumption of

fishing for cod in the Regulatory Area and is valid until 31 December 2005. The measures in this article shall not serve as a precedent in future years for the fixation of catch limits or the criteria for quota distribution of stocks of other species.

Article 5 **Shrimp in Division 3M**

1. Each Contracting Party shall limit the number of its vessels fishing for shrimp in Division 3M to the number which participated in this fishery in the period from 1 January 1993 to 31 August 1995. With regard to shrimp, Division 3M shall be understood to mean Division 3M as well as that portion of Division 3L defined in figure 1.

2. Each Contracting Party shall in 2002 limit the number of shrimp fishing days in Division 3M by its vessels to 90% of the maximum number of fishing days observed for its vessels in one of the years 1993, 1994 or 1995 (until 31 August 1995).

3. Each Contracting Party with a track record in the period from 1 January 1993 to 31 August 1995 is permitted a minimum level of 400 fishing days per year. Each Contracting Party with no track record in this fishery in this period may fish for shrimp with one vessel for 100 fishing days per year.

4. Each Contracting Party shall closely monitor its vessels fishing shrimp in Division 3M and shall close its fishery when the number of fishing days available to that Party is exhausted. The number of fishing days shall be counted from vessel monitoring system (hereinafter "VMS") reports and shall include the days of entry into and exit from Division 3M. If a vessel is fishing for shrimp and other species on the same trip, the change of fishery shall be signaled and the number of fishing days counted accordingly.

5. Fishing days referred to in this Article are not transferable between Contracting Parties. Fishing days of one Contracting Party may only be utilized by a vessel flying the flag of another Contracting Party under the conditions laid down in Article 14.
(insert figure one)

Article 6 **Shrimp in Division 3L**

1. With regard to shrimp, Division 3L shall be understood to mean Division 3L except that portion of 3L adjacent to Division 3M defined by figure one in Article 5.

2. Contracting Parties shall not conduct exploratory or research fisheries which take catch beyond the quota allocated to the Contracting Party.

3. The portion of the TAC allocated to Canada shall be fished within the Canadian zone. The portion of the TAC allocated to other Contracting Parties shall be divided equally among them.

Article 7 **Closed Fisheries**

Directed fisheries are not allowed in the following fisheries in 2002:

- a) shrimp in Divisions 3NO;
- b) witch in Division 3L of the Regulatory Area; and
- c) cod in the Division 3L of the Regulatory Area.

Article 8

Quota Adjustments

1. When information satisfactory to the Executive Secretary indicates that there are reasonable grounds for believing that a quota of a Contracting Party has been taken, he shall immediately inform that Contracting Party. Should that Contracting Party fail within 15 days either to cease fishing or to demonstrate that the quota has not been taken, the Executive Secretary shall so report without delay to the Fisheries Commission.
2. When the Fisheries Commission finds that vessels of a Contracting Party have taken more than the quota allocated to that Contracting Party, the Commission may adjust the corresponding quota for that Contracting Party in a succeeding quota period.
3. When the Fisheries Commission finds that a Contracting Party, contrary to the provisions of Article 3, has fished on a quota allocated to "Others" without reporting its intention to fish on that quota, failed to report its catches taken under such a quota, or continued a directed fishery under such quota after this fishery had been closed, the Commission may propose measures to compensate for damage caused to the stock. Such measures may include adjustments to quotas or the establishment of new quotas for that Contracting Party as appropriate.
4. Quota adjustments shall be made during the determination by the Fisheries Commission of relevant quotas for the following quota period, and shall not result in an increase in any other quota for the Contracting Party to which the quota adjustment applies. All quota adjustments shall not result in any increase in the relevant quota for any other Contracting Party, unless the Commission determines that the increase will not cause further harm to the stock.

Article 9

By-catch Requirements

1. Masters shall not conduct directed fisheries for species for which by-catch limits apply.
2. Vessels of a Contracting Party shall limit their by-catch to a maximum of 2500kg or 10%, whichever is the greater, for each species listed in Annex 1 for which no quota has been allocated in that division to that Contracting Party.
3. In cases where a ban on fishing is in force or an "Others" quota has been fully utilized, by-catches of the species concerned may not exceed 1250 kg or 5%, whichever is the greater.
4. If the percentages of by-catches foreseen in paragraphs 2 and 3 are exceeded in any one haul, the vessel must immediately move a minimum of 5 nautical miles from any position of the previous haul. If any future haul exceeds these by-catch limits, the vessel shall again immediately move a minimum 5 nautical miles from any position of the previous hauls and shall not return to the area for at least 48 hours.
5. In the event that total by-catches of all groundfish species subject to quota in any haul in the shrimp fishery exceed 5% by weight in Division 3M or 2.5% by weight in Division 3L, the vessel must move a minimum of 5 nautical miles from the position of the previous haul.
6. The percentages in the first sentence of paragraphs 2 and 3 are calculated as the

percentage, by weight, for each species, of the total catch excluding the catch of species subject to by-catch limits and are based on the catch taken by stock area. Catches of shrimp shall not be included in the calculation of by-catch levels of groundfish species.

Article 10 Gear Requirements

1. Minimum authorized mesh sizes shall be as follows:
 - a) 40 mm for shrimps and prawns;
 - b) 60 mm for short finned squid (*Illex*);
 - c) 280 mm in the codend and 220 mm in all other parts of the trawl for skate; and
 - d) 130 mm for principal groundfish, flatfishes, other groundfish and other fish (with the exception of capelin) as listed in Annex 2.
2. Only meshes which have 4 sides, equally long, of the same material, and 4 knots are permitted.
3. Mesh size shall be calculated by averaging:
 - a) in respect of the codend of a net, including any lengthener(s), the measurements, in millimeters, of any 20 consecutive meshes running parallel to the long axis of the codend, beginning at the after end of the codend, and at least 10 meshes from the lacings; and
 - b) in respect of any part of a net, the measurements, in millimeters, of any 20 consecutive meshes that are at least 10 meshes from the lacings.
4. Mesh shall be measured wet after use by inserting into the meshes the appropriate gauge as described in Annex 3.
5. Vessels fishing primarily for other species are however permitted to take regulated species with nets having a mesh size less than specified in paragraph 1, provided that the by-catch requirements in Article 9, paragraph 2 are complied with.
6. Vessels fishing for a species listed in Annex 2 are not allowed to retain onboard during any trip any net with a mesh size smaller than that authorized for that species. Vessels which fish in areas outside the Regulatory Area may however retain on board nets with a mesh size smaller than that prescribed in Annex 2, provided that these nets are securely lashed and stowed and are not available for immediate use.
7. Strengthening ropes, splitting straps and codend floats may be used on trawls, as long as these attachments do not in any way restrict the authorized mesh or obstruct the mesh opening.
8. Vessels shall not use any means or device which would obstruct the meshes or diminish the size of the meshes. However, vessels may attach devices described in Annex 4 to the upperside of the codend in such a manner that they will not obstruct the meshes of the codend inclusive of any lengthener(s). In addition, canvas, netting or other material may be attached to the underside of the codend of a net to reduce and prevent damage.
9. Vessels fishing for shrimp in Divisions 3L or 3M shall use sorting grids or grates with a maximum bar spacing of 22 mm. Vessels fishing for shrimp in Division 3L shall also be equipped with toggle chains of a minimum 72 cm in length.

Article 11
Minimum Fish Size Requirements

1. Vessels shall not retain on board any fish of a species for which minimum fish size requirements apply in accordance with Annex 5. If the amount of undersized fish in any one haul exceeds 10% by number, the vessel shall immediately move a minimum 5 nautical miles from any position of the previous haul.
2. Undersized fish shall not be processed, transhipped, landed, transported, stored, displayed or offered for sale, but shall be returned immediately to the sea. Any processed fish for which minimum fish size requirements apply which is below a length equivalent in Annex 5 shall be deemed to originate from fish that is below the minimum fish size.
3. Notwithstanding paragraphs 1 and 2, Canadian vessels shall abide by their equivalent national regulations which require landing of all catches.

Article 12
Area and Time Restrictions

1. Fishing for shrimp in the period from 1 June (00.01GMT) to 31 December (24.00 GMT), is prohibited in the area defined by figure 2:

(insert figure 2)

2. All fishing for shrimp in Division 3L shall take place in depths greater than 200 meters and shall be limited to one vessel per Contracting Party at any one time. Fishing shall only occur during the following periods: 1 January – 31 March, 1 July – 14 September, 1 December – 31 December. The fishery in the Regulatory Area shall be restricted to an area east of a line bound by the following co-ordinates:

46°00'N/47°53'W, 46° 40'N/47°20'W, 47° 19'N/47° 43'W.

Chapter II
CONTROL MEASURES

Article 13
Chartering Arrangements

1. A Contracting Party may utilize partly or wholly quota and shrimp fishing days allocated to that Party under Articles 3 and 5 by way of charter arrangement with a fishing vessel flying the flag of another Contracting Party notified in accordance with Article 15. Any such arrangement must be subject to the consent of the flag Contracting Party and a favourable proposal adopted through a mail vote in accordance with Article XI.2 of the Convention. Contracting Parties shall limit such charter arrangements to one fishing vessel per year and for a limited duration not exceeding 6 months.
2. Contracting Parties intending to have recourse to such charter arrangements shall together with a request for a mail vote notify the following information to the Executive Secretary:
 - a) the name and registration of the chartered vessel and the relevant flag Contracting Party;
 - b) a copy of the charter;
 - c) the fishing possibilities concerned;

- d) the date as from which the vessel is authorized to commence fishing on these fishing possibilities; and
 - e) the duration of the charter.
3. The relevant flag Contracting Party shall notify in writing its consent to the Executive Secretary.
 4. The Executive Secretary shall circulate the above information and the consent of the flag Contracting Party without delay to Contracting Parties.
 5. The relevant flag Contracting Party is responsible for ensuring that the vessel complies with the requirements of these Conservation and Enforcement Measures. This does not nullify the obligations of the Contracting Party under Chapter I to which the quota and shrimp fishing days have been allocated.
 6. All catches and by-catches from such chartering arrangements shall be recorded by the relevant flag Contracting Party separate from other national catch data recorded according to Article 20. They shall be reported to the Contracting Party to which the fishing possibilities have been allocated and to the Executive Secretary separate from other national catch data according to Article 20. The Executive Secretary shall add these catches to the catch statistics of the Contracting Party to which the fishing possibilities have originally been allocated.
 7. As a pilot project, these measures shall apply until 2002.

Article 14 **Notification Requirements**

1. Contracting Parties shall notify the Executive Secretary, in electronic form, of all fishing vessels of more than 50 gross tons authorised to fish in the Regulatory Area. This notification shall be made prior to 1 January of each year if possible, or in a timely manner following departure of the vessel from its home port. Vessels subject to bare boat chartering shall be notified to the Executive Secretary by the flag Contracting Party at the latest one month prior to the departure of the vessel from its home port. The notification shall be in accordance with Annex 6. Each Contracting Party shall notify the Executive Secretary of any modification to this information within 30 days of the modification.
2. Contracting Parties shall notify the Executive Secretary, in electronic form, prior to the commencement of a fishery research period of all research vessels authorized to conduct research activities in the Regulatory Area. The notification shall be in accordance with Annex 6.
3. By 1 November each year, each Contracting Party shall communicate to the Executive Secretary the number of fishing days available to it for fishing shrimp in Division 3M in the following year.
4. The Executive Secretary shall make available to all Contracting Parties the information notified under this Article.

Article 15 **Vessel Requirements**

1. Each Contracting Party shall ensure that its fishing vessels are marked with the port of registration and/or the registration number(s). These markings shall be displayed on both sides of

the vessel in a colour contrasting with the background. The markings shall be displayed high above the water line so that they are clearly visible from the sea and air.

2. Small boats carried on board fishing vessels shall be marked with the letter(s) and/or number(s) of the vessel to which they belong.

3. Each Contracting Party shall ensure that its fishing vessels over 10 metres in length carry on board documents issued by the competent authority of the State in which it is registered showing at least the elements referred to in Annex 7.

4. Each Contracting Party shall ensure that its fishing vessels over 17 metres in length which freeze or salt fish keep on board up-to-date drawings or descriptions of their fish rooms, including an indication of their storage capacity in cubic metres.

5. Any modification to the documents referred to in paragraphs 3 and 4 shall be certified by the competent authority of the State in which the vessel is registered and the method by which any modification of engine power has been carried out and clearly explained.

Article 16 Marking of Gear

Marker buoys and similar objects floating on the surface and intended to indicate the location of fixed fishing gear shall display the registration number of the fishing vessels to which they belong.

Article 17 Transshipment Restriction

Contracting Parties shall ensure that their fishing vessels do not receive transshipments of fish from a Non-Contracting Party vessel which has been sighted and reported as having engaged in fishing activities in the Regulatory Area.

Article 18 Product Labelling Requirements

All shrimp harvested in Division 3L shall be packaged and labelled as harvested in this Division.

CHAPTER III MONITORING OF FISHERIES

Article 19 Recording of Catch

1. Each Contracting Party shall ensure that its vessels shall, on entering the Regulatory Area, have a record in its fishing logbook of the amount of each species of fish retained on board.

2. Each Contracting Party shall ensure that its vessels record their catches on a daily basis. All logbook entries listed in Annex 9 shall be completed in accordance with its instructions using the codes specified therein. Each Contracting Party shall also ensure that its vessels record their estimated cumulative catch of all species on a daily basis in the form prescribed in Annex 10.

3. The records referred to in paragraphs 1 and 2 shall correspond to the smallest geographical

area for which a quota has been allocated, show the disposition of the catch and include any fish off-loaded while the vessel is operating in the Regulatory Area. The records shall be retained aboard the vessel for the duration of the quota period.

4. Each Contracting Party shall ensure that its fishing vessels shall either record their cumulative production by species and product form in a production logbook or 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.

Article 20

Reporting of Catch and Fishing Effort

1. Each Contracting Party shall report its provisional monthly catches by species and stock area, as well as provisional monthly fishing days in the shrimp fishery, whether or not that Party has quota allocations for the stocks from which catches were obtained. These reports shall be sent to the Executive Secretary within 30 days of the end of the calendar month in which the catches were made.

2. The Executive Secretary shall, within 10 days following the monthly deadlines for receipt of the provisional catch statistics, collate the information received and circulate it to Contracting Parties. The Executive Secretary shall also collate the logbook catch summaries from inspection forms and, on a monthly basis, circulate the cumulative year-to-date information to Contracting Parties.

3. Contracting Parties shall daily notify the Executive Secretary of shrimp catches taken by its vessels in Division 3L. The Executive Secretary shall forward this information to Contracting Parties with an inspection presence.

4. Contracting Parties shall also report statistics on discards of cod taken in the redfish and flatfish fisheries on the Flemish Cap. This information shall include length samplings, with depth information accompanying each sample. These length samplings shall be collected separately for the two components.

5. Contracting Parties shall also provide nominal catch and discard statistics on American plaice and Yellowtail flounder in Division 3LNO. This information shall also include separate length samplings for nominal catches and discards. The statistics shall be broken down on as fine a scale as possible, preferably by unit areas no larger than 1° latitude and 1° longitude and shall be summarized on a monthly basis.

Article 21

Hail System

1. Each Contracting Party shall ensure that its vessels shall report to their competent authorities or to the Executive Secretary:

- a) the catch on board on entering the Regulatory Area. This report shall be made at least 6 hours in advance of the vessel's entry to the Regulatory Area and shall include the total live weight of catch on board by species (3 alpha codes) in kilograms (rounded to the nearest 100 kilograms);
- b) the catch on board on exiting the Regulatory Area. This report shall be made 6 hours in advance of the vessel's exit from the Regulatory Area and shall include the catch

- taken and retained in the Regulatory Area by species (3 alpha codes) in live weight in kilograms (rounded to the nearest 100 kilograms); and
- c) each transshipment of fish while the vessel is operating in the Regulatory Area. This report shall be made at least 24 hours in advance of transshipment and shall include the date, the time, the geographical position of the vessel and total live weight by species (3 alpha codes) in kilograms (rounded to the nearest 100 kilograms) to be transhipped.
2. Within 24 hours of receipt of these reports, whenever possible, competent authorities of each Contracting Party shall transmit the information contained therein to the Executive Secretary. The Executive Secretary shall transmit the information to other Contracting Parties with an inspection presence in the Regulatory Area as soon as possible and shall ensure that all such transmissions are numbered sequentially for each Contracting Party. These reports are to be treated in a confidential manner.
 3. For vessels that fish shrimp in Division 3L, each entry and exit from Division 3L shall require 24-hour prior notification to the Executive Secretary. All shrimp on board shall be reported to the Executive Secretary on entry and exit.

Article 22 Observer Program

1. Each Contracting Party shall require all its vessels to carry at least one observer at all times while fishing in the Regulatory Area. Contracting Parties shall have the primary responsibility to obtain independent and impartial observers and shall take all necessary measures to ensure that observers are able to carry out their duties. Observers are not to perform duties, other than those described in paragraphs 4, 5 and 6 below. Subject to any other arrangements between the relevant Contracting Parties, the salary of an observer shall be covered by the sending Contracting Party.
2. In cases where a Contracting Party has not placed an observer on a vessel, any other Contracting Party may, subject to the consent of the Contracting Party of the vessel, place an observer on board until that Contracting Party provides a replacement in accordance with paragraph 1.
3. Contracting Parties shall provide to the Executive Secretary a list of the observers they will be placing on their vessels.
4. Observers shall:
 - a) monitor a vessel's compliance with the relevant Conservation and Enforcement Measures. In particular they shall:
 - (i) record and report upon the fishing activities of the vessel and verify the position of the vessel when engaged in fishing;
 - (ii) observe and estimate catches with a view to identifying catch composition and monitoring discards, by-catches and the taking of undersized fish;
 - (iii) record the gear type, mesh size and attachments employed by the master; and

- (iv) verify entries made to the logbooks (species composition and quantities, live and processed weight, hail and VMS reports).
 - b) collect catch and effort data for each haul. This data shall include location (latitude/longitude), depth, time of net on the bottom, catch composition and discards; in particular the observer shall collect the data on discards and retained undersized fish as outlined in the protocol developed by the Scientific Council;
 - c) carry out such scientific work (for example, collecting samples) as requested by the Fisheries Commission based on the advice of the Scientific Council; and
 - d) monitor the functioning of and report upon any interference with the satellite tracking system. In order to better distinguish fishing operations from steaming and to contribute to an *a posteriori* calibration of the signals registered by the receiving station, the observer shall maintain detailed reports on the daily activity of the vessel.
5. When an infringement of the Conservation and Enforcement Measures is identified by an observer, the observer shall, within 24 hours, report it to an inspection vessel using an established code, which shall report it to the Executive Secretary.
6. The observer shall within 30 days following completion of an assignment provide a report to the Contracting Party of the vessel and to the Executive Secretary, who shall make the report available to any Contracting Party that so requests. Copies of reports made available to other Contracting Parties shall not include location of catch in latitude and longitude as required under paragraph 4 b), but shall include daily totals of catch by species and division.
7. The vessel on which an observer is placed shall provide suitable food and lodging during the observer's deployment. Vessel masters shall ensure that all necessary co-operation is extended to observers in order for them to carry out their duties including providing access, as required, to the retained catch, and catch which is intended to be discarded.
8. The elements of the observer program are subject to review and revision, as appropriate, for application in 2003 and subsequent years.

Article 23 **Vessel Monitoring System (VMS)**

1. Each Contracting Party shall ensure that its fishing vessels operating in the Regulatory Area are equipped with a satellite monitoring device allowing the continuous reporting of their position by the Contracting Party. The satellite monitoring device shall ensure the automatic communication at least once every six hours to a land-based fisheries monitoring centre (hereafter referred to as FMC) of data relating to:
- a) the vessel identification;
 - b) the most recent geographical position of the vessel (longitude, latitude) with a position error which shall be less than 500 metres, with a confidence interval of 99%; and
 - c) the date and time of the fixing of the said position of the vessel.
2. Each Contracting Party shall take the necessary measures to ensure that its FMC receives these data. The FMC of each Contracting Party shall be equipped with computer hardware and software enabling automatic data processing and electronic data transmission. Each Contracting

Party shall provide for back-up and recovery procedures in case of system failures and shall take the necessary measures to ensure that the data received from its fishing vessels are recorded in computer readable form for a period of three years.

3. The masters of fishing vessels shall ensure that the satellite monitoring devices are at all times fully operational and that the information in paragraph 1 is transmitted to the FMC. In the event of a technical failure or non-operation of the satellite monitoring device fitted on board a fishing vessel, the device shall be repaired or replaced within one month. After this period, the master of a fishing vessel shall not be authorized to commence a fishing trip with a defective satellite monitoring device. Where a device stops functioning and a fishing trip lasts more than one month, the repair or the replacement has to take place as soon as the vessel enters a port and the fishing vessel shall not be authorized to continue or commence a fishing trip without the satellite monitoring device having been repaired or replaced.

4. Contracting Parties shall ensure that a fishing vessel with a defective satellite monitoring device shall communicate, at least daily, reports containing the information in paragraph 1 to the FMC, by other means of communication (email, radio, facsimile or telex).

5. Contracting Parties shall communicate reports and messages pursuant to paragraphs 1 and 4 to the Executive Secretary as soon as possible, but not later than 24 hours after receipt of those reports and messages. If the Contracting Party so desires, it shall ensure that each of its fishing vessels shall communicate reports (by satellite, email, radio, facsimile or telex) to the Executive Secretary.

6. Contracting Parties shall ensure that the reports and messages transmitted between the Contracting Party and the Executive Secretary or between its fishing vessels and the Executive Secretary, shall be in accordance with the data exchange format set out in Annex 12.

7. The Executive Secretary shall make available as soon as possible the information received under paragraph 6 to other Contracting Parties with an inspection presence in the Regulatory Area. All reports and messages shall be treated in a confidential manner.

8. Contracting Parties shall notify any changes of the name, address, telephone, telex, email and facsimile numbers of their competent authorities to the Executive Secretary without delay.

9. Subject to any other arrangements between Contracting Parties, each Contracting Party shall pay all costs associated with this system.

10. The elements of the vessel monitoring system are subject to review and revision, as appropriate, for application in 2003 and subsequent years

CHAPTER IV JOINT INSPECTION AND SURVEILLANCE SCHEME

Article 24 General Provisions

1. Inspection and surveillance shall be carried out by inspectors of the fishery control services of Contracting Parties following their assignment to the Joint Inspection and Surveillance Scheme (hereinafter "Scheme") and in accordance with the guidelines laid down in Annex 13. An inspector visiting a vessel engaged in research shall note the status of the vessel, and shall limit

any inspection procedures to those procedures necessary to ascertain that the vessel is not conducting a commercial fishing operation.

2. Following notification to the Executive Secretary, and in the case of mutual agreement between the respective Contracting Parties, inspectors assigned by one Party may be placed on board inspection vessels or aircraft of another Party assigned to the scheme.

3. Contracting Parties shall aim at ensuring equal treatment between all Contracting Parties with vessels operating in the Regulatory Area through an equitable distribution of inspections. The number of inspections carried out by a Contracting Party on vessels of any other Contracting Party shall, as far as possible, reflect the ratio of the inspected Party's fishing activity to the total fishing activity in the Regulatory Area per quarter. This ratio shall be measured on the basis of, inter alia, the level of catches and vessel days on ground and shall also take into account compliance records. The Executive Secretary shall draw up an annual report on the objectivity in the realization and distribution of inspections between the Contracting Parties.

4. For the purposes of receiving and responding to, without delay, notice of infringements, a Contracting Party with more than 15 fishing vessels operating at any one time in the Regulatory Area shall, during that time:

- a) have an inspector or other competent authority present in the Regulatory Area; or
- b) have a competent authority present in a country of a Contracting Party adjacent to the Convention Area.

5. The use of arms in relation to the inspection is prohibited and, in particular, the inspectors shall not carry arms. However, the prohibition on carrying or using arms shall not apply to inspections by a Contracting Party of vessels flying its own flag.

6. Without compromising their ability to conduct inspections, inspectors shall minimize the interference and inconvenience to the vessel, its activities and catch. Inspectors shall take all appropriate precautions to avoid causing damage to packaging, wrapping, cartons or other containers and to the contents of same in order to ensure, to the extent practicable, that the quality of the catch on board is maintained. Cartons and other containers shall be opened in such a way that will facilitate their prompt resealing, repacking and eventual restorage.

Article 25

Notification Requirements

1. Contracting Parties shall notify the Executive Secretary by 1 November each year of the names of the inspectors, inspector trainees and inspection vessels, and the type and call sign of the helicopters or other aircraft which they are assigning to this Scheme in accordance with this Article. Modifications to such notifications shall be communicated to the Executive Secretary with two months notice whenever possible.

2. Inspection vessels and aircraft shall immediately notify the Executive Secretary, by the most rapid electronic means available, of the date and time of commencing and terminating their duties under the scheme. In each case, these times shall be entered in the aircraft's or ship's log or its equivalent. In cases where notification is not possible or practicable, these entries shall constitute fulfillment this requirement.

3. Contracting Parties shall inform the Executive Secretary by 1 November each year of the provisional plans for participation by its inspectors, vessels, helicopters and other aircraft in

inspection and surveillance activities for the following calendar year. The Executive Secretary may make suggestions to Contracting Parties for the co-ordination of their operations, including the number of inspectors and the number of vessels, helicopters and other aircraft carrying inspectors.

4. The Executive Secretary shall circulate the substance of the notifications received from any Contracting Party to all Contracting Parties within 15 days of receipt.

5. Contracting Parties shall notify the Executive Secretary of the names of the authorities competent to receive immediate notice of infringements and the means by which they may receive and respond to communications.

Article 26 Inspectors

1. Each inspector or inspector trainee shall carry a document of identity issued by the Executive Secretary in accordance with Annex 14 and produce this document upon boarding a vessel.

2. When carrying out their duties under this Scheme, inspectors may not, with respect to vessels under the jurisdiction of other Contracting Parties, enforce laws and regulations related to the zone of the Contracting Party which has assigned them. Inspectors shall carry out their duties in accordance with the rules set out in this Scheme, but they shall remain under the operational control of the authorities of their Contracting Parties and shall be responsible to them.

Article 27 Surveillance Procedure

1. Surveillance reports shall be based on sightings made by an inspector from an inspection vessel or aircraft assigned to this Scheme.

2. Aircraft assigned to this Scheme shall have their international radio call sign clearly displayed.

3. When an inspector observes a vessel of a Contracting Party, and where such observation does not correspond with the latest information available to the inspector in accordance with Articles 21 and 23, the inspector shall complete the Surveillance Report Form in Annex 15. The inspector shall take photographs of the vessel which should record the position, date and time the photograph was taken.

4. The original of each Surveillance Report and any photographs shall without delay be forwarded by electronic transmission to the Contracting Party of the vessel concerned. A copy of every Surveillance Report and photographs shall also be forwarded to the Executive Secretary.

5. Contracting Parties shall, on receipt of a Surveillance Report concerning its vessels, take prompt action to consider the Report and shall, whenever possible, board the vessel concerned and conduct any further investigation necessary to allow it to determine appropriate follow-up action.

6. Each Contracting Party shall report the action taken with regard to Surveillance Reports involving its vessels to the Executive Secretary by 1 March each year for the previous calendar year. The Surveillance Reports shall be listed annually until follow-up action is concluded by the

Flag State of the vessel concerned. In cases where the follow-up action results in penal action, any penalties imposed shall be described in specific terms.

7. Contracting Parties shall report to the Executive Secretary all sightings of Non-Contracting Party fishing vessels sighted engaged in fishing activities in the Regulatory Area. Such reports shall include all information resulting from these observations and be made using the Surveillance Report provided in Annex 15.

8. An attempt shall be made to inform the Non-Contracting Party fishing vessel that it has been sighted engaged in fishing activities in the Regulatory Area, that a surveillance report has been completed, that there may be consequences for the vessel, and that this information will be distributed to all Contracting Parties and the Flag State of the vessel.

Article 28 Inspection Procedure

1. No boarding shall be conducted without prior notice being sent to the vessel, including the identity of the inspection platform, whether or not such notice is acknowledged as received. The inspection shall be carried out using the inspection report prescribed in Annex 16.

2. When conducting an inspection during daylight hours in conditions of normal visibility, an inspection vessel shall display the pennants depicted in Annex 18. Boarding vessels shall display one pennant, which may be half-scale.

3. The fishing vessel to be boarded shall not be required to stop or manoeuvre when fishing, shooting or hauling. Where an inspection vessel has signalled that an inspection party is about to commence boarding a fishing vessel which has begun or is about to begin hauling its nets, the master of that fishing vessel shall ensure that the net is not retrieved for a period of 30 minutes after receiving the signal from the inspection vessel.

4. An inspection party shall consist of at maximum two inspectors. Vessel conditions permitting, an 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 fishing vessel. This trainee shall simply observe the inspection operation conducted by the authorized inspectors and shall in no way interfere with the activities of the fishing vessel.

5. Inspectors have the authority to examine all relevant areas, decks and rooms of the fishing vessels, processed and unprocessed catches, nets or other gear, equipment, and any relevant documents which inspectors deem necessary to verify compliance with the Conservation and Enforcement Measures.

6. Inspectors shall limit their inquiries to the verification of the facts in relation to measures to which the Contracting Party of the inspected vessel has not objected in accordance with Article XII of the Convention.

7. Inspectors shall summarize from logbook records, for the current voyage, the vessel's catch in the Regulatory Area by species and by division and shall record this summary in section 15 of the inspection form. The current voyage shall be defined for this purpose as beginning when the vessel enters the Regulatory Area and ending when the vessel leaves the Convention Area, including the ports bordering the Convention Area, for a period greater than 20 consecutive days. The current voyage shall not be considered to have ended as long as the vessel has catch on board from the Regulatory Area.

8. Contracting Parties may exercise, by letter to the Executive Secretary, the option to have inspectors summarize from logbook records for the quota period, instead of the current voyage, their vessel's catch in the Regulatory Area by species and by division and record this summary in section 15 of the inspection form.
9. Inspectors shall convert production weight recordings in the 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.
10. The duration of an inspection shall not exceed three hours, or until the net is hauled in and the net and catch are inspected, whichever is longer. This time limitation shall not apply in the case of an infringement.
11. In the case of a difference between the recorded catches and the estimates of the inspector of the catch on board the vessel, the inspector may re-check calculations, procedures, the relevant documentation used to determine the catch summaries from the Regulatory Area and the catch on board the vessel. Any such differences shall be duly noted in section 18 of the inspection report. The inspector shall leave the vessel within one hour following the completion of the original inspection.
12. In the case of a language difficulty, the inspector or the master shall use, in the appropriate language, the appropriate part of the questionnaire shown in Annex 17.
13. The inspection report may be commented upon and shall be signed by all the persons that the form requires. A copy of the report shall be given to the master of the vessel.
14. Each Contracting Party shall ensure that its inspection platforms are kept at a safe distance from fishing vessels and that its inspectors respect the provisions of this Scheme as well as any other applicable rules of international law.

Article 29

Obligations of Vessel Masters During Inspection

1. The master of a fishing vessel shall:
 - a) facilitate boarding as soon as possible in accordance with good seamanship when given the appropriate signal in the International Code of Signals by a vessel or helicopter carrying an inspector;
 - b) facilitate the work of the inspector, in particular give access to registration documents, drawings or descriptions of their fish rooms, production logbooks or stowage plans and give 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;
 - c) provide a boarding ladder constructed and used as described in Annex 19 for vessels longer than 30 metres overall;
 - d) provide such assistance to boarding's from helicopters as specified or as qualified in Annex 20; and
 - e) identify his vessel as the vessel in charge of a pair trawling operation by flying a pennant or flag on the approach of an inspector.

2. The procedures established for personnel helicopter hoist transfers shall not place a higher duty of care upon the master of a fishing vessel than that required by international law.

Article 30

Inspection Reports

1. The original of the inspection reports shall be transmitted within 30 days, whenever possible, to the Contracting Party for the inspected vessel.

2. In case of an infringement or a difference between recorded catches and the inspector's estimates of the catches on board, a copy of the inspection report with supporting documents, including second photographs taken, shall be transmitted to the Contracting Party for the inspected vessel. This documentation shall be transmitted within 10 days after the inspection vessel returns to port.

3. The inspectors shall also within 24 hours transmit to the Contracting Party of the inspected vessel a statement which shall constitute advance notification of the infringement. This statement shall quote the information entered under points 16 and 18 of the inspection report, cite the relevant measures and describe in detail the basis for issuing the citation for an infringement and the evidence in support of the citation.

4. If inspectors in the course of an inspection make comments and observations in the inspection report, in particular under point 20 thereof, the inspectors shall promptly prepare a written statement. This statements shall cite the relevant measures, describe the practices observed and substantiate the grounds for their suspicions and shall be sent within 24 hours to the Contracting Party of the inspected vessel.

5. A copy of all documents referred to in paragraphs 1-4 shall be transmitted to the Executive Secretary by the inspecting Contracting Party. The Executive Secretary and the Contracting Parties shall treat this information with the confidentiality required for the protection of individual data.

6. Contracting Parties inspecting vessels shall provide notification of a list of vessels inspected on a calendar monthly basis to the Contracting Parties of the vessels inspected. This list shall be transmitted via the Executive Secretary.

7. If a Non-Contracting Party vessel which has been sighted and reported as engaged in fishing activities in the Regulatory Area is boarded by inspectors, the findings of the inspectors shall without delay be transmitted to the Executive Secretary. The Executive Secretary will transmit this information to all Contracting Parties within 72 hours of receiving this information and as soon as possible to the Flag State of the boarded vessel.

Article 31

Procedures to Deal with Infringements

1. If an inspector observes an infringement of the Conservation and Enforcement Measures, the inspector shall:

- a) note the infringement in the inspection report, sign the entry and obtain the countersignature of the master;

- b) enter and sign a notation in the fishing logbook or other relevant document stating the date, location, and type of infringement found. The inspector may make a copy of any relevant entry in such a document and require the master of the vessel to certify in writing on each page of the copy that it is a true copy of such entry;
- c) if necessary, document the infringement with photographs of the gear or catch. The inspectors shall in such case give one photograph to the master of the vessel and attach a second photograph to the report sent to the Contracting Party for the inspected vessel.

2. The inspector shall immediately attempt to communicate with an inspector of the Contracting Party for the inspected vessel, known to be in the vicinity, or the authority designated in accordance with Article 24(4) when an inspector finds an infringement of measures prohibiting activities described in subparagraphs a) – c). The master of the inspected vessel shall provide the use of the vessel's communication equipment and operator for messages to be sent out and received for this purpose.

- a) fishing in a closed area or with gear prohibited in a specific area;
- b) fishing for stocks or species after the date on which the Contracting Party for the inspected vessel has notified the Executive Secretary that vessels of that party will cease a directed fishery for those stocks or species; or
- c) fishing on an "Others" quota without prior notification to the Executive Secretary, or more than seven working days after the Contracting Party for the inspected vessel has been notified by the Executive Secretary that fishing under an "Others" quota for that stock or species was closed.

3. At the request of the inspector, a master shall cease all fishing which appears to the inspector to contravene the measures referred to in paragraph 2 (a) to (c). During this time, the inspector shall complete the inspection and, if unable within a reasonable period of time to communicate with an inspector or competent authority of the Contracting Party for the inspected vessel, he shall leave the inspected vessel and communicate as soon as possible with one of them. However, the inspector may remain aboard the inspected vessel provided that he succeeds in establishing communications and that the inspector or competent authority of the Contracting Party for the inspected vessel agrees. As long as the inspector remains aboard, the master may not resume fishing until the inspector is reasonably satisfied, as a result of either the action taken by the vessel's master or the inspector's communication with an inspector or competent authority of the Contracting Party for the inspected vessel, that the infringement will not be repeated.

4. The inspector may request that the master remove any part of the fishing gear which appears to the inspector to be contrary to the Conservation and Enforcement Measures. The inspection seal depicted in Annex 21 shall be affixed securely to any part of the fishing gear which appears to the inspector to have been in contravention, and the inspector shall record the fact in the report. The gear shall be preserved with the seal attached until examined by an inspector or competent authority of the Contracting Party for the inspected vessel who shall determine the subsequent disposition of the gear.

5. An inspector may photograph the fishing gear in such a way that the identification mark and measurements of the fishing gear are visible. Objects photographed should be listed in the report. A second photograph shall be given to the master of the vessel.

6. An inspector observing a failure of a vessel to enable an inspection party to board after being properly signaled shall report the infringement as soon as possible to an inspector, known to be in the vicinity, or designated authority of the Contracting Party of the vessel concerned. A report shall be sent to the Executive Secretary giving as much information as possible, including

the nature of the signal, the distance from which the signal was given, the visibility at the time, sea state, wind and icing conditions.

Article 32

Serious Infringements

1. The following infringements shall be considered serious:
 - a) misreporting of catches;
 - b) mesh size violations;
 - c) hail system violations;
 - d) interference with the satellite monitoring system;
 - e) preventing inspectors or observers from carrying out their duties; and
 - f) directed fishing for a stock which is subject to a moratorium or for which fishing is prohibited.

2. If an inspector cites a vessel for having committed a serious infringement as listed in paragraph 1, the Contracting Party of the vessel shall ensure that the vessel concerned is inspected within 72 hours by an inspector authorized by that Contracting Party. The inspector shall take all necessary measures to ensure security and continuity of the evidence, including, as appropriate, sealing the vessel's hold for eventual port inspection. The inspector may remain on board the vessel for the period necessary to provide information to the authorized inspector concerning the infringement.

3. Where justified, the competent authorities of the Contracting Party of the vessel concerned shall, where authorized to do so, require the vessel to proceed immediately to a port for a thorough inspection under the authority of the Flag State and in the presence of an inspector from any other Contracting Party which wishes to participate. This port, chosen by the master, should be either St. John's or Halifax, Canada, the home port of the vessel or a port designated by the Flag State. If the vessel is not called to port, the Contracting Party must provide due justification in a timely manner to the Executive Secretary who shall make it available on request to any Contracting Party.

4. When a vessel is required to proceed to port pursuant to paragraph 3, an inspector from another Contracting Party may, subject to the consent of the Contracting Party of the vessel, board and remain on board the vessel as it is proceeding to port.

5. When an inspector cites a vessel for having committed a serious infringement as listed in paragraph 1, the inspector shall immediately report this to the Executive Secretary, who shall in turn immediately inform other Contracting Parties with an inspection vessel in the Convention Area.

Article 33

Follow up to Infringements

1. The competent authorities of a Contracting Party notified of an infringement committed by one of its vessels shall take prompt action to conduct the investigations necessary to obtain the evidence required and, whenever possible, inspect the vessel involved. The authorities shall take immediate judicial or administrative action in the same manner as would have been the case when dealing with infringements of fisheries regulations in national waters.

2. The competent authorities of the Contracting Party for the vessel concerned shall cooperate fully with those of the Contracting Party which carried out an inspection to ensure that all evidence of the infringement is prepared and preserved in a form which facilitates judicial action.
3. The provisions in this Chapter shall not impose any obligation on the competent authorities of a Contracting Party to give the report from a foreign inspector a higher evidentiary value than it would possess in the inspector's own country.
4. Resistance to an inspector or failure to comply with his directions shall be treated by the Flag State of the vessel as if the inspector were an inspector of that State.

Article 34 **Treatment of Reports from Inspectors**

Contracting Parties shall consider and act on reports from inspectors of other Contracting Parties under this Scheme on the same basis as reports from its own inspectors. Contracting Parties shall collaborate in order to facilitate judicial or other proceedings arising from a report submitted by the inspector under the scheme, subject to the rules governing the admissibility of evidence in domestic courts.

Article 35 **Report on Infringements**

1. Contracting Parties shall report to the Executive Secretary by 1 February (for the period 1 July – 31 December of the previous year) and 1 September (for the period 1 January – 30 June of the current year) each year:
 - a) action taken concerning infringements notified to it by a Contracting Party. The infringements shall continue to be listed on each subsequent report until the action is concluded under the laws of the Flag State; and
 - b) differences that they consider significant between records of catches in the logbooks of vessels of the Contracting Party and inspectors' estimates of catches on board the vessels.
2. The report referred to in paragraph 1 shall indicate the current status of the case (e.g. case pending, under appeal, still under investigation) and describe in specific terms any penalties imposed (e.g. level of fines, value of forfeited fish and/or gear, written warning given). The report shall include an explanation if no action has been taken.

Article 36 **Reports on Inspection and Surveillance Activities**

- Contracting Parties shall report to the Executive Secretary by 1 March each year for the previous calendar year:
- a) the number of inspections conducted by it under this Scheme. The report shall specify the number of inspections on the vessels of each Contracting Party and, in the case of infringement, the date and position of the inspection of the named vessel and the nature of the infringement; and
 - b) the number of air hours flown on patrol, the number of sightings and the number of surveillance reports established with the date, time and position of the sightings in respect of these surveillance reports.

Article 37
Interpretation or Application

1. In the event of a disagreement concerning the interpretation or application of the provisions of this Scheme, the concerned Contracting Parties shall consult in an attempt to resolve the disagreement.
2. If the disagreement remains unresolved following the consultations, the Executive Secretary shall at the request of a Contracting Party refer the disagreement to a special meeting of the Standing Committee on International Control (STACTIC).
3. A report on the disagreement shall be drawn up by STACTIC and transferred to the Fisheries Commission within two months of the STACTIC meeting.
4. Upon receipt of the STACTIC report, a Contracting Party may within a further period of two months request a special meeting of the Fisheries Commission to consider the report and to take appropriate action.

CHAPTER V
INSPECTIONS IN PORT

Article 38
Port Inspection Procedures

1. When, in the port of a Contracting Party, a port call is made by a vessel which has been engaged in fishing for stocks subject to the Conservation and Enforcement Measures, that Contracting Party shall ensure that its inspector is present and that, on each occasion when catch is offloaded, an inspection takes place to verify the species and quantities caught. The port inspection report in Annex 22 shall be used. The Contracting Party shall ensure that the interference in the offloading activity is minimized and that the quality of the catch is not adversely affected.
2. The quantities landed by species and the quantities retained on board, if any, shall be cross-checked with the quantities recorded in logbooks, catch reports on exit from the Regulatory Area, and reports of any inspections carried out under the Scheme.
3. Any information from inspections under Chapter IV shall be verified.
4. Inspections shall include verification of mesh size of nets on board and size of fish retained on board.
5. Results of port inspections shall include at least the information listed in section I-B of Annex 22.
6. The competent authorities of Contracting Parties shall, every two years, check each of their vessels, notified in accordance with Article 14, to certify the correctness of the vessel's plans for fish rooms and other fish storage places. The master shall ensure that a copy of such certification remains on board to be shown to a NAFO inspector if requested.

Article 39
Transmission of Port Inspection Reports

1. The competent authorities of the Port State shall, on request, transmit the results of the port inspection to the Flag State of the vessel within 14 working days of the date on which the port inspection was completed.
2. A copy of the results of the port inspection shall be transmitted to the Executive Secretary within 30 days as from the date on which the landing was completed and shall be provided to other Contracting Party on request.
3. Where possible, Contracting Parties should transmit the results of the port inspection in accordance with this paragraph in the format defined in Part A of Annex 22.

Annexes and Attachments to the Conservation and Enforcement Measures

Annex 1
Annual Quota Table

[To be included]

Annex 2
List of Species
SPECIES NAME CODE

| Common English Name | Scientific Name | 3-Alpha Code |
|--|--|--------------|
| PRINCIPAL GROUND FISH (EXCEPT FLATFISHES) | | |
| Atlantic cod | <i>Gadus morhua</i> | COD |
| Haddock | <i>Melanogrammus aeglefinus</i> | HAD |
| Atlantic redfishes | <i>Sebastes</i> sp. | RED |
| Golden redfish | <i>Sebastes marinus</i> | REG |
| Beaked redfish (deep-water) | <i>Sebastes mentella</i> | REB |
| Acadian redfish | <i>Sebastes fasciatus</i> | REN |
| Silver hake | <i>Merluccius bilinearis</i> | HKS |
| Red hake* | <i>Urophycis chuss</i> | HKR |
| Pollock (=Saithe) | <i>Pollachius virens</i> | POK |
| FLATFISHES | | |
| American plaice | <i>Hippoglossoides platessoides</i> | PLA |
| Witch flounder | <i>Glyptocephalus cynoglossus</i> | WIT |
| Yellowtail flounder | <i>Limanda ferruginea</i> | YEL |
| Greenland halibut | <i>Reinhardtius hippoglossoides</i> | GHL |
| Atlantic halibut | <i>Hippoglossus hippoglossus</i> | HAL |
| Winter flounder | <i>Pseudopleuronectes americanus</i> | FLW |
| Summer flounder | <i>Paralichthys dentatus</i> | FLS |
| Windowpane flounder | <i>Scophthalmus aquosus</i> | FLD |
| Flatfishes (NS) | <i>Pleuronectiformes</i> | FLX |
| OTHER GROUND FISH | | |
| American angler (=Goosefish) | <i>Lophius americanus</i> | ANG |
| Atlantic searobins | <i>Prionotus</i> sp. | SRA |
| Atlantic tomcod | <i>Microgadus tomcod</i> | TOM |
| Blue antimora | <i>Antimora rostrata</i> | ANT |
| Blue whiting | <i>Micromesistius poutassou</i> | WHB |
| Cunner | <i>Tautoglabrus adspersus</i> | CUN |
| Cusk (=Tusk) | <i>Brosme brosme</i> | USK |
| Greenland cod | <i>Gadus ogac</i> | GRC |
| Blue ling | <i>Molva dypterygia</i> | BLI |
| Ling | <i>Molva molva</i> | LIN |
| Lumpfish (=Lumpsucker) | <i>Cyclopterus lumpus</i> | LUM |
| Northern kingfish | <i>Menticirrhus saxatilis</i> | KGF |
| Northern puffer | <i>Sphoeroides maculatus</i> | PUF |
| Eelpouts (NS) | <i>Lycodes</i> sp. | ELZ |
| Ocean pout | <i>Macrzoarces americanus</i> | OPT |
| Polar cod | <i>Boreogadus saida</i> | POC |
| Roundnose grenadier | <i>Coryphaenoides rupestris</i> | RNG |
| Roughhead grenadier | <i>Macrourus berglax</i> | RHG |
| Sandeels (=Sand lances) | <i>Ammodytes</i> sp. | SAN |
| Sculpins | <i>Myoxocephalus</i> sp. | SCU |
| Scup | <i>Stenotomus chrysops</i> | SCP |

*In accordance with a recommendation adopted by STACRES at the 1970 Annual Meeting (ICNAF Redbook 1970, Part I, Page 67), hakes of the Genus *Urophycis* are designated as follows for statistical reporting: (a) hake reported from Subareas 1,2 and 3, and Divisions 4R, S, T and V be designated as white hake, *Urophycis tenuis*; (b) hake taken by line gears or any hake greater than 55 cm standard length, regardless of how caught, from Divisions 4W and X, Subarea 5 and Statistical Area 6 be designated as white hake, *Urophycis tenuis*; (c) Except as noted in (b), other hake of the Genus *Urophycis* taken in Divisions 4W and X, Subarea 5 and Statistical Area 6 be designated as red hake, *Urophycis chuss*.

| Common English Name | Scientific Name | 3-Alpha Code |
|-----------------------------------|--|--------------|
| OTHER GROUND FISH (cont'd) | | |
| Tautog..... | <i>Tautoga onitis</i> | TAU |
| Tilefish..... | <i>Lopholatilus chamaeleonticeps</i> | TIL |
| White hake*..... | <i>Urophycis tenuis</i> | HKW |
| Wolffishes (NS)..... | <i>Anarhichas</i> sp. | CAT |
| Atlantic wolffish..... | <i>Anarhichas lupus</i> | CAA |
| Spotted wolffish..... | <i>Anarhichas minor</i> | CAS |
| Groundfish (NS)..... | | GRO |

PRINCIPAL PELAGICS

| | | |
|------------------------|-------------------------------|-----|
| Atlantic herring..... | <i>Clupea harengus</i> | HER |
| Atlantic mackerel..... | <i>Scomber scombrus</i> | MAC |

OTHER PELAGIC FISH

| | | |
|--------------------------------|--------------------------------------|-----|
| Atlantic butterfish..... | <i>Pephrilus triacanthus</i> | BUT |
| Atlantic menhaden..... | <i>Brevoortia tyrannus</i> | MHA |
| Atlantic saury..... | <i>Scomberesox saurus</i> | SAU |
| Bay anchovy..... | <i>Anchoa mitchilli</i> | ANB |
| Bluefish..... | <i>Pomatomus saltatrix</i> | BLU |
| Crevalle jack..... | <i>Caranx hippos</i> | CVJ |
| Frigate tuna..... | <i>Auxis thazard</i> | FRI |
| King mackerel..... | <i>Scomberomorus cavalla</i> | KGM |
| Atlantic Spanish mackerel..... | <i>Scomberomorus maculatus</i> | SSM |
| Sailfish..... | <i>Istiophorus platypterus</i> | SAI |
| White marlin..... | <i>Tetrapturus albidus</i> | WHM |
| Blue marlin..... | <i>Makaira nigricans</i> | BUM |
| Swordfish..... | <i>Xiphias gladius</i> | SWO |
| Albacore tuna..... | <i>Thunnus alalunga</i> | ALB |
| Atlantic bonito..... | <i>Sarda sarda</i> | BON |
| Little tunny..... | <i>Euthynnus alletteratus</i> | LTA |
| Bigeye tunny..... | <i>Thunnus obesus</i> | BET |
| Northern bluefin tuna..... | <i>Thunnus thynnus</i> | BFT |
| Skipjack tuna..... | <i>Katsuwonus pelamis</i> | SKJ |
| Yellowfin tuna..... | <i>Thunnus albacares</i> | YFT |
| Tunas (NS)..... | <i>Scombridae</i> | TUN |
| Pelagic fish (NS)..... | | PEL |

OTHER FISH

| | | |
|--------------------------|--------------------------------------|-----|
| Alewife..... | <i>Alosa pseudoharengus</i> | ALE |
| Amberjacks..... | <i>Seriola</i> sp. | AMX |
| American conger..... | <i>Conger oceanicus</i> | COA |
| American eel..... | <i>Anguilla rostrata</i> | ELA |
| Atlantic hagfish..... | <i>Myxine glutinosa</i> | MYG |
| American shad..... | <i>Alosa sapidissima</i> | SHA |
| Argentines (NS)..... | <i>Argentina</i> sp. | ARG |
| Atlantic croaker..... | <i>Micropogonias undulatus</i> | CKA |
| Atlantic needlefish..... | <i>Strongylura marina</i> | NFA |
| Atlantic salmon..... | <i>Salmo salar</i> | SAL |
| Atlantic silverside..... | <i>Menidia menidia</i> | SSA |

| Common English Name | Scientific Name | 3-Alpha Code |
|---------------------------------|--|--------------|
| <u>OTHER FISH (cont'd)</u> | | |
| Atlantic thread herring | <i>Opisthonema oglinum</i> | THA |
| Baird's slickhead | <i>Alepocephalus bairdii</i> | ALC |
| Black drum | <i>Pogonias cromis</i> | BDM |
| Black seabass | <i>Centropristis striata</i> | BSB |
| Blueback herring | <i>Alosa aestivalis</i> | BBH |
| Capelin | <i>Mallotus villosus</i> | CAP |
| Chars (NS)..... | <i>Salvelinus</i> sp. | CHR |
| Cobia | <i>Rachycentron canadum</i> | CBA |
| Common (Florida) pompano | <i>Trachinotus carolinus</i> | POM |
| Gizzard shad..... | <i>Dorosoma cepedianum</i> | SHG |
| Grunts (NS) | <i>Pomadasyidae</i> | GRX |
| Hickory shad | <i>Alosa mediocris</i> | SHH |
| Lanternfish | <i>Notoscopelus</i> sp. | LAX |
| Mulletts (NS)..... | <i>Mugilidae</i> | MUL |
| North Atl. harvestfish..... | <i>Peprilus alepidotus (=paru)</i> | HVF |
| Pigfish..... | <i>Orthopristis chrysoptera</i> | PIG |
| Rainbow smelt..... | <i>Osmerus mordax</i> | SMR |
| Red drum | <i>Sciaenops ocellatus</i> | RDM |
| Red porgy | <i>Pagrus pagrus</i> | RPG |
| Rough scad | <i>Trachurus lathami</i> | RSC |
| Sand perch | <i>Diplectrum formosum</i> | PES |
| Sheepshead | <i>Archosargus probatocephalus</i> | SPH |
| Spot croaker | <i>Leiostomus xanthurus</i> | SPT |
| Spotted weakfish..... | <i>Cynoscion nebulosus</i> | SWF |
| Squeteague (Gray weakfish)..... | <i>Cynoscion regalis</i> | STG |
| Striped bass | <i>Morone saxatilis</i> | STB |
| Sturgeons (NS)..... | <i>Acipenseridae</i> | STU |
| Tarpon | <i>Tarpon (=megalops) atlanticus</i> | TAR |
| Trouts (NS)..... | <i>Salmo</i> sp. | TRO |
| White perch | <i>Morone americana</i> | PEW |
| Alfonsinos (NS) | <i>Beryx</i> sp. | ALF |
| Spiny (=picked) dogfish..... | <i>Squalus acanthias</i> | DGS |
| Dogfishes (NS)..... | <i>Squalidae</i> | DGX |
| Sand Tiger shark | <i>Odontaspis taurus</i> | CCT |
| Porbeagle..... | <i>Lamna nasus</i> | POR |
| Shortfin Mako shark | <i>Isurus oxyrinchus</i> | SMA |
| Dusky shark..... | <i>Carcharhinus obscurus</i> | DUS |
| Great Blue shark..... | <i>Prionace glauca</i> | BSH |
| Large sharks (NS) | <i>Squaliformes</i> | SHX |
| Atlantic Sharpnose shark | <i>Rhizoprionodon terraenova</i> | RHT |
| Black Dogfish..... | <i>Centroscyllium fabricii</i> | CFB |
| Boreal (Greenland) shark..... | <i>Somniousus microcephalus</i> | GSK |
| Basking shark | <i>Cetorhinus maximus</i> | BSK |
| Skates (NS)..... | <i>Raja</i> sp. | SKA |
| Little skate | <i>Leucoraja erinacea</i> | RJD |
| Arctic skate..... | <i>Amblyraja hyperborea</i> | RJG |
| Barndoor skate | <i>Dipturus laevis</i> | RJL |
| Winter skate..... | <i>Leucoraja ocellata</i> | RJT |
| Thorny skate (Starry Ray)..... | <i>Amblyraja radiata</i> | RJR |
| Smooth skate | <i>Malacoraja senta</i> | RJS |

| | | |
|---------------------------------------|-----------------------------------|-----|
| Spinytail skate (Spinetail Ray) | <i>Bathyraja spinicauda</i> | RJQ |
| Finfishes (NS) | | FIN |

INVERTEBRATES

| | | |
|--|--|-----|
| Long-finned squid (<i>Loligo</i>)..... | <i>Loligo pealei</i> | SQL |
| Short-finned squid (<i>Illex</i>)..... | <i>Illex illecebrosus</i> | SQI |
| Squids (NS) | <i>Loliginidae, Ommastrephidae</i> | SQU |
| Atlantic razor clam..... | <i>Ensis directus</i> | CLR |
| Hard clam..... | <i>Mercenaria mercenaria</i> | CLH |
| Ocean quahog..... | <i>Arctica islandica</i> | CLQ |
| Soft clam | <i>Mya arenaria</i> | CLS |
| Surf clam | <i>Spisula solidissima</i> | CLB |
| Stimpson's surf clam | <i>Spisula polynyma</i> | CLT |
| Clams (NS)..... | <i>Prionodesmacea, Teleodesmacea</i> | CLX |
| Bay scallop | <i>Argopecten irradians</i> | SCB |
| Calico scallop | <i>Argopecten gibbus</i> | SCC |
| Iceland scallop..... | <i>Chylamys islandica</i> | ISC |
| Sea scallop..... | <i>Placopecten magellanicus</i> | SCA |
| Scallops (NS) | <i>Pectinidae</i> | SCX |
| American cupped oyster | <i>Crassostrea virginica</i> | OYA |
| Blue mussel | <i>Mytilus edulis</i> | MUS |
| Whelks (NS)..... | <i>Busycon</i> sp. | WHX |
| Periwinkles (NS)..... | <i>Littorina</i> sp. | PER |
| Marine molluscs (NS)..... | <i>Mollusca</i> | MOL |
| Atlantic rock crab..... | <i>Cancer irroratus</i> | CRK |
| Blue crab | <i>Callinectes sapidus</i> | CRB |
| Green crab | <i>Carcinus maenas</i> | CRG |
| Jonah crab..... | <i>Cancer borealis</i> | CRJ |
| Queen crab | <i>Chionoecetes opilio</i> | CRQ |
| Red crab..... | <i>Geryon quinqueedens</i> | CRR |
| Stone king crab..... | <i>Lithodes maia</i> | KCT |
| Marine crabs (NS)..... | <i>Reptantia</i> | CRA |
| American lobster | <i>Homarus americanus</i> | LBA |
| Northern prawn | <i>Pandalus borealis</i> | PRA |
| Aesop shrimp | <i>Pandalus montagui</i> | AES |
| Penaeus shrimps (NS)..... | <i>Penaeus</i> sp. | PEN |
| Pink (=Pandalid) shrimps..... | <i>Pandalus</i> sp. | PAN |
| Marine crustaceans (NS)..... | <i>Crustacea</i> | CRU |
| Sea-urchin..... | <i>Strongylocentrotus</i> sp. | URC |
| Marine worms (NS) | <i>Polychaeta</i> | WOR |
| Horseshoe crab | <i>Limulus polyphemus</i> | HSC |
| Marine invertebrates (NS)..... | <i>Invertebrata</i> | INV |

Annex 3 Gauges

Certified Mesh Measuring Gauges

Each gauge is a flat wedge-shaped gauge having a constant taper in width of 1 in 4 (reducing the width 1 unit for every 4 units of length) and a constant thickness not less than 2 millimeters and not more than 2.4 millimeters ($2 \text{ mm} \leq \text{thickness} \leq 2.4 \text{ mm}$), inserted into the meshes with a force of 5 kilograms.

Since it is not practical to have one gauge for measuring all the mesh sizes authorized in the Regulatory Area, each Contracting Party will issue a series of certified mesh measuring gauges as it deems adequate to cover the range of authorized mesh sizes of nets.

All certified mesh measuring gauges are to be graduated in increments of 1 millimeter and the material used should be rigid, durable and considered suitable by the fisheries authorities of the Contracting Party which certifies them.

The drawings shown in this Annex should serve only as a guide to the construction of the gauges and not as a blueprint for that construction. It is to be understood that such details as the number of gauges to cover the complete series, corner radii, certification marks or numbers, the existence or not of handles and lightening or handling holes, and all other details and dimensions are not part of the Rules.

1. Example of Large Size Gauge

[to be included]

2. Example of Small Size Gauge

[to be included]

Annex 4 Chafers

Authorized Topside Chafers

1. ICNAF-type topside chafer

The ICNAF-type topside chafer is a rectangular piece of netting to be attached to the upper side of the codend of the trawl net to reduce and prevent damage so long as such netting conforms to the following conditions:

- (a) this netting shall have a mesh size not less than that specified for the codend in sub-paragraph 1(a) of Section B of PART II. For the purposes of this sub-paragraph, the mesh size when measured wet after use shall be taken to be the average of the measurements of 20 consecutive meshes in a series across the netting, such measurements to be made with the gauge described in Schedule V;

- (b) this netting may be fastened to the codend only along the forward and lateral edges of the netting and at no other place in it, and shall be fastened in such a manner that it extends forward of the splitting strap no more than four meshes and ends not less than four meshes in front of the cod line mesh; where a splitting strap is not used, the netting shall not extend to more than one-third of the codend measured from not less than four meshes in front of the cod line mesh;
- (c) the width of this netting shall be at least one and a half times the width of the area of the codend which is covered, such widths to be measured at right angles to the long axis of the codend.

Refer to page 70 of NAFO/FC Doc. 00/1

2. Multiple flap-type topside chafer

The multiple flap-type topside chafer is defined as pieces of netting having in all their parts meshes the size of which, whether the pieces of netting are wet or dry, is not less than that of the codend, provided that:

- (a) each piece of netting
 - (a) is fastened by its forward edge only across the codend at right angles to its long axis;
 - (b) is of a width of at least the width of the codend (such width being measured at right angles to the long axis of the codend at the point of attachment); and
 - (c) is not more than ten meshes long; and
- (ii) the aggregate length of all the pieces of netting so attached does not exceed two-thirds of the length of the codend.

Refer to page 71 of NAFO/FC Doc. 00/1

1. Large-mesh (modified Polish-type) topside chafer

The large-mesh topside chafer consists of a rectangular piece of netting made of the same twine material as the codend, or of a single, thick, knotless twine material, attached to the rear portion of the upper side of the codend and extending over all or any part of the upper side of the codend and having in all its parts a mesh size twice that of the codend when measured wet and fastened to the codend along the forward, lateral and rear edges only of the netting in such a way that each mesh of the netting coincides with four meshes of the codend.

Although not exhaustive, the following examples are included because they are the most common.

EXAMPLE 1 - CHAFER COVERING THREE FIFTHS OF THE LENGTH OF THE CODEND; METHOD OF RIGGING.

Refer to page 72 of NAFO/FC Doc.00/1

EXAMPLE 2 - CHAFER COVERING THE WHOLE LENGTH OF THE CODEND: MANNER IN WHICH THE CHAFER IS FITTED TO THE CODEND.

Refer to page 73 of NAFO/FC Doc.00/1

**EXAMPLE 3 - CHAFER OF SINGLE-BRAIDED, THICK, KNOTLESS TWINE
MATERIAL: MANNER IN WHICH THE CHAFER IS FITTED TO THE CODEND.**

Refer to page 74 of NAFO/FC Doc.00/1

**Annex 5
Minimum Fish Size**

1. Minimum Fish Size

| <u>Species</u> | <u>Minimum Size</u> |
|--|---------------------|
| 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 |
| Greenland Halibut, <i>Reinhardtius Hippoglossoides</i> | 30 cm |

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

2. Length Equivalent for Processed Fish

| Species | Gilled and gutted fish whether or not skinned; fresh or chilled, frozen, or salted | | | |
|---------------------|---|----------|-------------------|--------------------|
| | whole | head off | head and tail off | head off and split |
| Atlantic Cod | 41 cm | 27 cm | 22 cm | 27/25* cm |
| American Plaice | 25 cm | 19 cm | 15 cm | NA |
| Yellowtail flounder | 25 cm | 19 cm | 15 cm | NA |

*Lower size for green salted fish.

**Annex 6
Notification of Vessels**

Fishing vessels:

1. Vessels registered in a Contracting Party.
 - (a) name of vessel in both native and Latin alphabet;
 - (b) official numbers;
 - (c) home port and nationality;
 - (d) owner and charterer, if any;
 - (e) certification that its master has been provided with the extent Commission's measures;
 - (f) principle target species while engaged in fishing in the Regulatory Area.

2. Vessels temporarily flying the flag of a Contracting Party (bare boat charter)
 - (a) date as from which the vessel has been authorized to fly its flag
 - (b) date as from which the vessel has been authorized by the Contracting Party to engage fishing in the Regulatory Area
 - (c) the name of the State where the vessel is registered or was previously registered and the date as from which it ceased flying the flag of that State;
 - (d) name of vessel in both native and Latin alphabet;

- (e) official numbers;
- (f) home port and nationality after the transfer;
- (g) owner and charterer, if any;
- (h) certification that its master has been provided with the extant NAFO measures;
- (i) principle target species while engaged in fishing in the Regulatory Area.

Research Vessels

1. Information on the vessel

- (a) name of vessel owner and address;
 - (b) type and name of vessel;
 - (c) length, beam and draft of vessel;
 - (d) port of registration, registration number, and radio call sign;
 - (e) a note whether the vessel is a permanent research vessel or the period for which the vessel will be employed as a research vessel; and
 - (f) for vessels which are temporarily employed in research only, purpose and area of research and plan of research program.
2. In the case of vessels described in sub-paragraph 1(f), a Contracting Party immediately upon the conclusion of the research activities shall so inform the Executive Secretary.
3. The information transmitted to the Executive Secretary shall be available in the English language aboard the vessel, either in the form of a plan of research or as a copy of the communication to the Executive Secretary. In the event that changes are made to the plan or period of research vessels described in sub-paragraph 3(f), **revised information** shall be given to the Executive Secretary **not less than seven days** before the effective date of the changes. A record of any changes shall be kept aboard the vessel.

Annex 7 Vessel Documents

Vessels over 10 metres in length shall carry on board documents showing at least the following elements:

- its name, if any
- the letter(s) of the port or district in which it is registered, and the number(s) under which it is registered
- its international radio call sign, if any
- the names and addresses of the owner(s) and, where applicable, the charterers its length and engine power

Annex 8 Definitions of Mesh

The following definitions apply for various components and attachments of a trawl:

1. Topside or upperside component is (a), in a 2-seam trawl, that portion of the net, between the two seams or lacings, which is nearer to the sea surface while the trawl is in tow, and (b), in a 4-seam trawl, that portion of the net between those two seams or lacings which are nearest to the sea surface while the trawl is in tow.

2. Bottomside or underside component is (a), in a 2-seam trawl, that portion of the net, between the two seams or lacings, which is nearer to the sea-bed while the trawl is in tow, and (b), in a 4-seam trawl, that portion of the net, opposite the topside or upperside component, between those two seams or lacings which are nearest to the sea-bed while the trawl is in tow.
3. Side components, in a 4-seam trawl, are the two other portions of the net, between seams or lacings, while the trawl is in tow.
4. Square is that part of the topside or upperside component, without a counterpart in the bottomside or underside component, which is connected aft to the belly and forward (a) to the beam in a beam trawl and (b) to the headrope or headline in any other trawl net.
5. Bellies are panels of the bottom trawl net (a), in a trawl with a square, starting from the square on the topside or upperside component and from the lower wings or from the footrope on the bottomside or underside component and joining aft either to the belly extension or to a lengthener or to the codend; or (b), in a trawl with no square, starting from the wings and joining aft either to the belly extension or to a lengthener or to the codend. Side bellies are panels of the 4-seam bottom trawl net side components, starting from the bunt, if there is a square, and from the bunt wings, if there is not, and joining aft either to the belly extension or to a lengthener or to the codend.
6. Belly extension is a tapered piece of netting which may be attached to the after end of the belly so that the effective length of the belly is extended.
7. Lengthener or lengthening piece is a piece of net, untapered at least in the plan view of the net, which may be inserted between the belly, or belly extension, if any, and the codend to increase catch capacity.
8. Codend is the after portion of the trawl net, untapered at least in the plan view of the net, attached to the after end of the belly (or belly extension or lengthener, if present), or the panels in a midwater trawl, secured to form a bag by means of a codline or codend clip reaved through the after meshes, or rings attached thereto, in order to retain the catch until released on board the trawler.
9. Chafing gear or chafers are attachments to the trawl net designed to protect or reinforce the codend.

Two distinct types may be considered, according to the part of the codend they protect or reinforce: (a) topside chafing gear or topside chafer is an attachment to the topside or upperside of the codend, in a 2-seam trawl, and to the topside or upperside and sides of the codend in a 4-seam trawl; and (b) bottom chafing gear or bottom chafer is an attachment designed to reduce or prevent damage due to friction against the sea bottom or the vessel's deck, affixed only to the bottomside or underside of the codend.

10. Panel is: (a) in the case of midwater trawls, the total area of netting, irrespective of mesh size, between each pair of adjacent seams or lacings of the trawl, forward of the codend; and consequently, in a 4-seam trawl, there will be the top or upper panel, the bottom or lower panel and two side panels; and (b) in the case of bottom trawls, each area of netting limited transversally by successive joins or joinings and longitudinally by adjacent seams or lacings.

Annex 9
Recording of Catch (Logbook Entries)

FISHING LOGBOOK ENTRIES

| <u>Item of Information</u> | <u>Standard Code</u> |
|---|----------------------|
| Vessel name | 01 |
| Vessel nationality | 02 |
| Vessel registration number | 03 |
| Registration port | 04 |
| Types of gear used (daily) | 10 |
| Type of gear | *2 |
| Date - day | 20 |
| - month | 21 |
| - year | 22 |
| Position – latitude | 31 |
| - longitude | 32 |
| - statistical area | 33 |
| * ¹ No. of hauls during the 24-hour period | 40 |
| * ¹ No. of hours gear fished during the 24-hour period | 41 |
| Species names | *2 |
| Daily catch of each species (metric tons round fresh weight) | 50 |
| Daily catch of each species for human consumption in the form of fish | 61 |
| Daily catch of each species for reduction | 62 |
| Daily discard of each species | 63 |
| Place(s) of transshipment | 70 |
| Date(s) of transshipment | 71 |
| Master's signature | 80 |

Instructions:

*¹When two or more types of gear are used in the same 24-hour period, records should be separate for the different types.

*²Please see attached sheets showing the applicable codes:

Type of Gear - Attachment I

Species Names - Attachment II

ATTACHMENT I**TYPE OF GEAR CODE**

| Gear Categories | Standard Abbreviation Code |
|-----------------------------------|-------------------------------|
| SURROUNDING NETS | |
| With purse lines (purse seines) | PS |
| - one boat operated purse seines | PS1 |
| - two boats operated purse seines | PS2 |
| Without purse lines (lampara) | LA |
| SEINE NETS | |
| Beach seines | SB |
| Boat or vessel seines | SV |
| - Danish seines | SDN |
| - Scottish seines | SSC |
| - Pair seines | SPR |
| Seine nets (not specified) | SX |
| TRAWLS | |
| Bottom trawls | |
| - beam trawls | TBB |
| - otter trawls 1/ | OTB |
| - pair trawls | PTB |
| - nephrops trawls | TBN |
| - shrimp trawls | TBS |
| - bottom trawls (not specified) | TB |
| Midwater trawls | |
| - otter trawls | OTM |
| - pair trawls | PTM |
| - shrimp trawls | TMS |
| - midwater trawls (not specified) | TM |
| Otter twin trawls | OTT |
| Otter trawls (not specified) | OT |
| Pair trawls (not specified) | PT |
| Other trawls (not specified) | TX |
| DREDGES | |
| Boat dredges | DRB |
| Hand dredges | DRH |

LIFT NETS

| | |
|-------------------------------------|-----|
| Portable lift nets | LNP |
| Boat operated lift nets | LNB |
| Shore operated stationary lift nets | LNS |
| Lift nets (not specified) | LN |

FALLING GEAR

| | |
|------------------------------|-----|
| Cast nets | FCN |
| Falling gear (not specified) | FG |

GILLNETS AND ENTANGLING NETS

| | |
|--|-----|
| Set gillnets (anchored) | GNS |
| Drift nets | GND |
| Encircling gillnets | GNC |
| Fixed gillnets (on stakes) | GNF |
| Trammel nets | GTR |
| Combined gillnets-Trammel nets | GTN |
| Gillnets and entangling nets (not specified) | GEN |
| Gillnets (not specified) | GN |

TRAPS

| | |
|---------------------------------|-----|
| Stationary uncovered pound-nets | FPN |
| Pots | FPO |
| Fyke nets | FYK |
| Stow-nets | FSN |
| Barriers, fences, weirs, etc. | FWR |
| Aerial traps | FAR |
| Traps (not specified) | FIX |

HOOKS AND LINES

| | |
|--|-----|
| Hand-lines and pole-lines (hand operated) 2/ | LHP |
| Hand-lines and pole-lines (mechanized) 2/ | LHM |
| Set lines (longlines set) | LLS |
| Drifting longlines | LLD |
| Longlines (not specified) | LL |
| Trolling lines | LTL |
| Hooks and lines (not specified) 3/ | LX |

GRAPPLING AND WOUNDING

| | |
|----------|-----|
| Harpoons | HAR |
|----------|-----|

HARVESTING MACHINES

| | |
|-------------------------------------|-----|
| Pumps | HMP |
| Mechanized dredges | HMD |
| Harvesting machines (not specified) | HMX |

| | |
|---------------------------------|-----|
| MISCELLANEOUS GEAR 4/ | MIS |
| RECREATIONAL FISHING GEAR | RG |
| GEAR NOT KNOWN OR NOT SPECIFIED | NK |

1/ Fisheries agencies may indicate side and stern bottom and side and stern midwater trawls, as OTB-1 and OTB-2, and OTM-1 and OTM-2, respectively.

2/ Including jigging lines.

3/ Code LDV for dory operated line gears will be maintained for historical data purposes.

4/ This item includes: hand and landing nets, drive-in-nets, gathering by hand with simple hand implements with or without diving equipment, poisons and explosives, trained animals, electrical fishing.

Annex 10 Cumulative Catches

Record of Cumulative Catch (in metric tons round fresh¹ weight)

Refer to page 65 of NAFO/FC Doc.00/1

Annex 11 Hail System Format

Formats for the Electronic Transmission of NAFO Hails from Contracting Parties to the NAFO Secretariat

EXPLANATORY NOTES

a) The formats herein conform with the requirements for the NAFO Hails System as set out in FC Document 00/1, the NAFO Conservation and Enforcement Measures Part III and Part III Annex I Hail System Message Format.

b) The formats consist of variable length delimited records, and are based on systems currently in use in NEAFC.

c) The variable length record is preferred over a fixed length record as some Contracting Parties collect more information from their vessels than is required by NAFO, and are forwarding the entire record to NAFO. The format is conducive to extraction of the required data fields by the receiving parties.

d) The following convention is used in this paper: //FIELD NAME/field value//, where the field name is shown in uppercase, followed by the character “/”, followed by the field value in lowercase. Fields are separated by “//”.

e) Each record begins with the string //SR// to indicate the Start of the Record.

f) Each record ends with the string //ER// to indicate the End of the Record.

g) Character fields (CHAR) shall conform with the ISO 8859.1 character set standard.

h) Country codes used for addressee (AD) and sender (FR) shall conform with the ISO 3166 (1993) standard. E/F 7.3 states that user-assigned country codes shall start with the character “X”, therefore it is proposed that the code XNW be used to designate the NAFO Secretariat, the addressee for hail messages.

Example 1
(continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.1 ENTRY HAIL

```
//SR
//FR/Name of transmitting party
//AD/Destination “XNW” for NAFO
//SQ/sequence number
//NA/name of vessel
//RC/International radio call sign
//XR/external identification letters and numbers
//DA/date of transmission
//TI/time of transmission
//LA/latitude at time of transmission
//LO/longitude at time of transmission
//TM/indication of type of message          “ENT”
//DI/NAFO Division into which the vessel is about to enter.
//OB/total round weight of fish by species (3 alpha codes) on board upon entry into the Regulatory
Area, in kilograms rounded to the nearest 100 kilograms. Allow several pairs of fields, consisting
of species + weight, with each field separated by a space. e.g. //OB/species weight species weight
species weight//
//MA/name of the Master
//TS/target species
```

Allow several species to be entered, with the values separated by spaces,
e.g. //TS/species species species//

```
//ER//
```

Example 1
(continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.2 MOVE HAIL

```
//SR
//FR/Name of transmitting party
//AD/Destination “XNW” for NAFO
//SQ/sequence number
//NA/name of vessel
//RC/International radio call sign
```

//XR/external identification letters and numbers
 //DA/date of transmission
 //TI/time of transmission
 //LA/latitude at time of transmission
 //LO/longitude at time of transmission
 //TM/indication of type of message "MOV"
 //DI/NAFO Division into which the vessel is about to enter.
 //MA/name of the Master
 //TS/target species

Allow several species to be entered, with the values separated by spaces,
 e.g. //TS/species species species//

//ER//

Example 1
 (continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.3 TRANSZONAL HAIL (between NAFO Divisions)

//SR
 //FR/Name of transmitting party
 //AD/Destination "XNW" for NAFO
 //SQ/sequence number
 //NA/name of vessel
 //RC/International radio call sign
 //XR/external identification letters and numbers
 //DA/date of transmission
 //TI/time of transmission
 //LA/latitude at time of transmission
 //LO/longitude at time of transmission
 //TM/indication of type of message "ZON"
 //MA/name of the Master
 //TS/target species

Allow several species to be entered, with the values separated by spaces,
 e.g. //TS/species species species//

//ER//

Example 1
 (continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.4 EXIT HAIL

//SR
 //FR/Name of transmitting party
 //AD/Destination "XNW" for NAFO
 //SQ/sequence number

//NA/name of vessel
 //RC/International radio call sign
 //XR/external identification letters and numbers
 //DA/date of transmission
 //TI/time of transmission
 //LA/latitude at time of transmission
 //LO/longitude at time of transmission
 //TM/indication of type of message "EXI"
 //DI/NAFO Division into which the vessel is about to enter.
 //CA/catch in round weight taken in the Regulatory Area by species (3 alpha codes) in kilograms (rounded to the nearest 100 kilograms). Allow several pairs of fields, consisting of species + weight, with each field separated by a space. e.g. //CA/species weight species weight species weight//
 //MA/name of the Master
 //ER//

Example 1
 (continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.5 TRANSHIPMENT HAIL

//SR
 //FR/Name of transmitting party
 //AD/Destination "XNW" for NAFO
 //SQ/sequence number
 //NA/name of vessel
 //RC/International radio call sign
 //XR/external identification letters and numbers
 //DA/date of transmission
 //TI/time of transmission
 //LA/latitude at time of transmission
 //LO/longitude at time of transmission
 //TM/indication of type of message "TRA"
 //KG/total round weight by species (3 alpha codes) to be transhipped in kilograms (rounded to the nearest 100 kilograms). Allow several pairs of fields, consisting of species + weight, with each field separated by a space. e.g. //KG/species weight species weight species weight//
 //MA/name of the Master
 //ER//

Refer to page 14 of the Supplement of FC Doc. 00/1

Annex 12 VMS Data Format

Refer to page 15 of the supplement to FC doc 00/1

Annex 13 Inspection Guidelines

(Guidelines for the Coordination and Optimization of Inspection and Control in the Regulatory Area)

1. Contracting Parties engaged in surveillance or inspection activities in the Regulatory Area shall, where possible, co-ordinate their efforts through an exchange of information.
 - (a) Inspection vessels shall provide notification to Executive Secretary and competent authorities/inspection vessels of Contracting Parties with an inspection presence in the Regulatory Area. This notification should be completed as far in advance as is practicable and include the inspection vessel's name, radio call sign, communication capability, name(s) of NAFO inspectors and ETA/ETD Regulatory Area.
 - (b) In response to the notification outlined in (a), inspection vessels operating in the Area at the time, or, where appropriate, the competent authorities of those Contracting Parties which have an inspection/surveillance presence in the Area, shall provide to the inspection vessel which is entering the Area a list of sightings/boardings (including dates/positions) which have been conducted in the previous ten-day period and other relevant information, as appropriate.
 - (c) Inspection vessels operating in the Regulatory Area, once the exchange of information described in (a) and (b) has taken place and means of communication established, shall maintain contact, as far as possible on a daily basis, and with due regard to radio security, in order to exchange information on boardings/sightings or other relevant information and to co-ordinate their activities.
2. Contracting Parties engaged in inspection or surveillance activities in the Regulatory Area shall undertake to prepare reports of inspection activity, based on a calendar year, outlining details of boardings, sightings and apparent infringements (including disposition).

Contracting Parties shall, where possible, exchange inspectors to develop a consistent approach to inspection and control in the Regulatory Area.

Annex 14 Document of Identity

INSPECTOR'S/TRAINEE'S DOCUMENT OF IDENTITY
(not smaller than 8.5 cm x 5.5 cm).

Refer to page 38 of NAFO/FC Doc.00/1

**Annex 15
Surveillance Report Form**

SURVEILLANCE REPORT

1. The forms for the Surveillance Report shall be collated in a booklet with each page having an original and two self-carbon copies (preferably coloured and preferably 1 golden rod and 1 blue).
2. Page packets are to be perforated at the top and bottom of the page for easy removal.
3. Booklets should be bound preferably with 50 copies of the surveillance report.
4. The size of every page, after removal from the packet, should be 355.5 mm (14") in length by 216 mm (8 1/2") in width.

FISHERIES COMMISSION OF THE NORTHWEST ATLANTIC FISHERIES
ORGANIZATION

SURVEILLANCE REPORT

PART I

AUTHORIZED INSPECTORS

1. Name(s) Document Identity No (s).....
.....
.....

Contracting Party

2. Identification/Call Sign of Surveillance Craft

Patrol Originating in Reg. Area at (Posn)on (Date) (time) UTC

Patrol Leaving Reg. Area at (Posn)on (Date) (time) UTC

DETAILS OF VESSEL OBSERVED

3. Contracting Party.....

4. Vessels Name and Letters and Numbers of Registration.....

5. Other Identifying Features (Type of vessel, colour of hull, superstructure, etc.)
.....
.....
.....

6. Date/Time UTC When First Identified Course & Speed

Position at Time at First I.D. NAFO Sub Div.

Lat.

Long.

Equipment used in Determining Position

7. WEATHER CONDITIONS

Wind Dir..... Sea State.....
Wind Speed..... Visibility.....

8. DETAILS OF PHOTOGRAPHS TAKEN

| Date/Time | Posn. | Altitude in case of air surveillance |
|-----------|-------|--------------------------------------|
| a. | | |
| b. | | |
| c. | | |
| d. | | |

PART II

(to be completed by the inspector not less than 72 hours following the observation recorded in Part I)
(NOT APPLICABLE TO NON-CONTRACTING PARTIES)

I hereby certify that to date, in respect of the fishing vessel, information received by the authorities from the competent authorities of the Contracting Party pursuant to paragraph 2 of Part Section of the Conservation and Enforcement Measures (Hail System), does not correspond with the observation recorded in Part I of this report.

Authorized Inspector:
Signature:

**Annex 16
Inspection Report**

**FISHERIES COMMISSION OF THE NORTHWEST ATLANTIC FISHERIES
ORGANIZATION**

REPORT OF INSPECTION

(Inspector: Please use CAPITAL BLOCK LETTERS)

Note to master of fishing vessel

The NAFO inspector will produce his/her NAFO document of identity on boarding. He/she is then entitled to inspect and measure all fishing gear on or near the working deck and readily available for use and the catch on and/or below decks and any relevant documents. This inspection will be to check your compliance with NAFO's measures to which your Contracting Party has not objected and, notwithstanding any such objection, to inspect the logbook entries for the Regulatory Area and the catches on board. The inspector will not ask you to haul your nets; however, he/she may remain on board until the net is hauled in.

AUTHORIZED INSPECTOR(S)

1. NAME(S)..... CONTRACTING PARTY.....

2. Name and Identifying letters and/or Number of Vessel Carrying Inspector(s)
.....

INFORMATION ON VESSEL INSPECTED

3. Contracting Party and Port of Register

4. Vessel's Name and Registration Number.....

5. Master's Name.....

6. Owner's Name and Address.....
.....

7. Position as determined by inspecting vessel's master atUTC; Lat.....Long.....

a) Equipment used in determining position.....

8. Position as determined by fishing vessel's master atUTC; Lat..... Long.....

a) Equipment used in determining position.....

DATE AND TIMES THE INSPECTION COMMENCED AND FINISHED

9. Date Time arrived on board UTC-Time of DepartureUTC

GEAR ON OR NEAR THE WORKING DECK INSPECTED

10.
 1st net 2nd net 3rd net
 Type of Net (trawl net, seine net, etc.)
 Material (chemical category, if possible)
 Single or double twine
 Net (measured wet)-on or near trawl deck
 Type of net attachments inspected
 Remarks.....

MESH MEASUREMENT - IN MILLIMETERS

11.
 Codend (inclusive of lengthener(s), if any) - Samples of 20 meshes
 Average Legal
 Width (Mesh Size) Width Size
 1st
 Net
 2nd
 Net
 3rd
 Net
 Chafer - Samples of meshes
 1st
 Net
 2nd
 Net
 3rd
 Net
 Rest of Net - Samples of 20 meshes
 1st
 Net
 2nd
 Net
 3rd
 Net

9. Have the records of catches been retained aboard for the duration of the quota period?

YES/NO

Result of Inspection of Fish on board

13. Result of Inspection of Fish Observed in last tow (if appropriate)

TOTAL TONS ALL SPECIES TAKEN PERCENTAGE OF EACH PERCENTAGE
 DISCARDS.

14. Result of inspection of catches on board

Fish species with 3-Alpha Code Inspectors Estimate (tonnes)
Inspectors comments on how estimates were calculated:

15. Summary of catches from logbooks for current voyage(1)/quota period (2):

DATE OF ENTRY INTO
REGULATORY AREA DIVISION
FISH SPECIES WITH
3-ALPHA CODE
CATCH
(METRIC TONS)
HOW
PROCESSED DISCARDS

(1) "Current voyage" is defined as beginning when the vessel enters the Regulatory Area, and ending when the vessel leaves the Convention Area (which includes the ports bordering the Convention Area) for a period greater than 20 days. The current voyage shall not be considered to have ended as long as the vessel has catch on board from the Regulatory Area.

(2) Where applicable in accordance with point 6(i), para 6 of the Scheme.

Note to master of fishing vessel:

At this stage the inspection will finish unless an apparent infringement has been found. If no apparent infringement is found go to item 22. If an apparent infringement has been found the inspector will write the infringement here and sign at this point. You must countersign to show that you have been informed of the infringement. Your signature does not constitute acceptance of the apparent infringement.

16.

Nature of apparent infringement:

Signature of inspector: _____
Signature of master: _____

If an apparent infringement has been found, the inspector may:

- 1) examine and photograph the fishing vessel's gear, catch, logbooks or other relevant documents;
- 2) ask you to cease fishing if the apparent infringement consists of
 - (a) fishing in a closed area or with gear prohibited in a specific area;

(b) fishing for stocks or species after the date on which the Contracting Party for the inspected vessel has notified the Executive Secretary that vessels of that Party will cease a directed fishery for those stocks or species; and

(c) fishing in an "Others" quota without prior notification to the Executive Secretary, or more than 7 working days after the Contracting Party for the inspected vessel has been notified by the Executive Secretary that fishing under an "Others" quota for that stock or species should cease;

Before asking you to cease fishing, the inspector must immediately attempt to communicate with an inspector of your Contracting Party in the vicinity or a designated authority of your Contracting Party.

You must allow the inspector to use your radio equipment or operator for this purpose. If the inspector cannot contact an inspector of your Contracting Party or a designated authority, he/she will complete his/her inspection and leave your vessel. While he/she is on board you should not recommence fishing unless you have satisfied the inspector that you will not repeat the apparent infringement e.g. because you have changed zone or cut off the illegal gear.

COMMENTS AND OBSERVATIONS

17. Documents inspected following an apparent infringement.....

18. Comments: (In the case of a difference between the inspector's estimates of the catches on board and the related summaries of catches from the logbooks, note this difference with the percentage)

.....
.....
.....

19. Subjects of photographs taken relating to an apparent infringement

.....
.....

20. Other comments, statements and/or observations by Inspector(s)

.....
.....

21. Statements of Second Inspector or Witness

.....
.....

22. Name and Signature of Second Inspector or Witness.....

23. Signature of Inspector in charge.....

24. Statement of Master's Witness(es):

.....
.....

25. Name and Signature of Master's Witness(es):

.....
.....

26. Acknowledgement and receipt of report:

I, the undersigned, Master of the vessel....., hereby confirm that a copy of this report and second photographs taken have been delivered to me on this date. My signature does not constitute acceptance of any part of the contents of the report.

Date..... Signature.....

27. Comments and signature by the Master of vessel

.....
.....

COPY TO MASTER, ORIGINAL TO BE RETAINED BY INSPECTOR FOR REQUIRED DISTRIBUTION.

**Annex 17
Inspection Questionnaire**

1. I am an inspector under the Scheme. Here is my document of identity. I would like to inspect your/nets/other fishing gear/catch/documents.
2. I should like to see the master of this vessel.
3. Please give me your name.
4. Please cooperate with me in the examination of your catch/equipment/documents in accordance with the Commission' measures.
5. Please check your position and time now.
6. I am reporting your position as°lat.....°long atUTC. Do you agree?
7. Would you like to check your position with my instruments on board the inspection vessel?
8. Do you now agree?
9. Please show me/the documents establishing the nationality of your vessel/the registration documents/the bridge logbook/the fishing logbook(s).
10. Please write down the name and address of the owners of this vessel in the space I am indicating on the Report Form.
11. What principal species are you fishing for?
12. Are you fishing for reduction purposes?
13. I agree.

14. Yes.
15. I do not agree.
16. No.
17. Please take me to/the bridge/the working deck/the processing area/fish holds.
18. Do you use any net attachment? If so, what type? Please write it down in the space I am indicating.
19. Please switch on these lights.
20. I wish to examine that net/chafing gear.
21. Show me the other fishing gear you have on or near the fishing deck.
22. Show me your net gauge, if any.
23. Ask your men to hold that net so that I can measure it.
24. Please put that net underwater for ten minutes.
25. I have inspected.....meshes in this net.
26. Check that I have recorded accurately on the Report Form in the space I am indicating the width of the meshes I have measured.
27. I wish to inspect your catch. Have you finished sorting the fish?
28. Will you please lay out those fish?
29. I wish to estimate the proportion of regulated species in your catch.
30. I have completed an inspection of catch on board your vessel. As a result of this inspection, I have estimated your total catch as t.
31. I have completed an inspection of your log records. Your log records indicate your total catch on board is..... t.
32. I have found that there is a difference between your recorded catch and my estimate of the catch on board your vessel.
33. I shall report this difference to your Contracting Party in my inspection report.
34. Please turn to the copy of the Inspection Form in your language and supply me with the necessary information to complete it. I will indicate which sections.
35. If you do not give your cooperation as I have requested, I will report your refusal to your Contracting Party.

36. I have found the average width of the meshes I have measured in that net ismm. This appears to be below the minimum applicable mesh size, and will be reported to your Contracting Party.
37. I have found net attachments/other fishing gear/which appear to be illegal. This will be reported to your Contracting Party.
38. I shall now affix the identification mark to this piece of fishing gear which is to be preserved with the mark attached until viewed by a fisheries inspector of your Contracting Party at his demand.
39. I have found undersized fish. I shall report this to your Contracting Party.
40. I find that you are apparently fishing in this area/during a closed season/with gear not permitted/for stocks or species not permitted. This will be reported to your Contracting Party.
41. I have found a by-catch of regulated species which appears to be above the permitted amounts. I shall report this to your Contracting Party.
42. I have made copies of the following entry/entries/in this document. Please sign them to certify that they are true copies.
43. I would like to communicate with a designated authority of your Contracting Party. Please arrange for this message to be sent and for any answer to be received.
44. Do you wish to make any observations concerning this inspection including its conduct and that of the inspector(s)? If so, please do so in the space I am indicating on the Report Form on which I have set out my findings. Please sign the observations. Do you have any witnesses who wish to make observations? If so, they may do so in the space I am indicating on the Report Form.
45. I am leaving. Thank you.

**Annex 18
Inspection Pennants**

Refer to page 39 of FC doc 00/1

**Annex 19
Boarding Ladder**

CONSTRUCTION AND USE OF BOARDING LADDERS

1. The boarding ladders shall be efficient for the purpose of enabling inspectors to embark and disembark at sea safely. The boarding ladders are to be kept clean and in good order.
2. The ladder shall be secured in a position so that it is clear of any possible discharge from the ship, that each step rests firmly against the ship's side, that it is clear so far as practicable of the finer lines of the ship and that the inspector can gain safe and convenient access to the ship.

3. The steps of the boarding ladder shall be:
 - (a) of hardwood or other material of equivalent properties, made in one piece free of knots, having an efficient non-slip surface; the four lowest steps may be made of rubber of sufficient strength and stiffness or of other suitable material of equivalent characteristics;
 - (b) not less than 480 mm long, 115 mm wide, and 25mm in depth, excluding any non-slip device;
and
 - (c) equally spaced not less than 300 mm nor more than 380 mm apart and may be secured in a manner that they will remain horizontal.
4. No boarding ladder shall have more than two replacement steps which are secured in position by a method different from that used in the original construction of the ladder and any steps so secured shall be replaced, as soon as reasonably practicable, by steps secured in position by the method used in the original construction of the ladder.
5. The side ropes of the ladder shall consist of two uncovered manila or equivalent ropes not less than 60 mm in circumference on each side; each rope shall be continuous with no joints below the top step; two man ropes properly secured to the ship and not less than 65 mm in circumference and a safety line shall be kept at hand ready for use if required.
6. Battens made of hardwood, or other material of equivalent properties, in one piece and not less than 1.80 m long, shall be provided at such intervals as will prevent the boarding ladder from twisting. The lowest batten shall be on the fifth step from the bottom of the ladder and the interval between any batten and the next shall not exceed 9 steps.
7. Means shall be provided to ensure safe and convenient passage onto or into and off the ship between the head of the pilot ladder or of any accommodation ladder or other appliance provided. Where such passage is by means of a gateway in the rails or bulwark, adequate handholds shall be provided. Where such passage is by means of a bulwark ladder, such ladder shall be securely attached to the bulwark rail or platform and two handhold stanchions shall be fitted at the point of boarding or leaving the ship not less than 0.70 m nor more than 0.80 m apart. Each stanchion shall be rigidly secured to the ship's structure at or near its base and also at a higher point, shall be not less than 40 mm in diameter and shall extend not less than 1.20 m above the top of the bulwark.
8. Lighting shall be provided at night such that both the boarding ladder overside and also the position where the inspector boards the ship shall be adequately lit. A lifebuoy equipped with a self-igniting light shall be kept at hand ready for use. A heaving line shall be kept at hand ready for use if required.
10. Means shall be provided to enable the boarding ladder to be used on either side of the ship.
11. The rigging of the ladder and the embarkation and disembarkation of an inspector shall be supervised by a responsible officer of the ship.
12. Where on any ship constructional features such as rubbing bands would prevent the implementation of any of these provisions, special arrangements shall be made to the satisfaction of the Commission to ensure that persons are able to embark and disembark safely.

Annex 20
Boarding from Helicopter

HELICOPTER HOIST PROCEDURE

1. The captain of the helicopter shall be in charge of and shall ensure the safety of personnel who are being transferred between a vessel and the helicopter during the entire time such personnel are attached to the helicopter via the hoist cable and the lifting device.
2. The master of the vessel shall follow the procedures described below to assist the helicopter:
 - (i) Attempt to communicate by radio in a common language;
 - (ii) Alter course and speed if requested and if free to do so;
 - (iii) Maintain a steady course and speed throughout the transfer operation unless the safety of the vessel is in jeopardy;
 - (iv) Provide a visual indication of relative wind by means of a pennant or other suitable device;
 - (v) Clear the transfer area of objects which could be blown loose;
 - (vi) Shall not make radio transmission on standing wire antennae (high frequency) in the immediate vicinity of the transfer area during the transfer. If such transmissions become necessary, the helicopter shall be advised in order that the transfer could be delayed; if a guide line is lowered first, crew members should be available to man this line to assist in the transfer of the inspection party. The inspection party, other lines and wires should not be touched by the crew of the vessel until the inspection party has grounded those lines and wires on the vessel;
 - (vii) Take appropriate measures to ensure to the extent practicable that none of the lines or fittings lowered from the helicopter are attached to or permitted to foul in the vessel.
3. The helicopter displaying its inspection pennant shall communicate to the vessel the intention to conduct a boarding:
 - (i) by radio communications on 2182 KHZ, VHF-FM Channel 16 or other agreed frequencies;
 - (ii) by visual or aural indication of an appropriate signal extracted from the International Code of Signals as shown in paragraph 7;
 - (iii) by hovering over or near the intended boarding position in conjunction with hand signals, adopted from the International Code of Signals, as indicated in paragraph 4.

4. (i) Signal: Pointing movement by arm or hand
- | | |
|-----------------|--|
| <u>Used by:</u> | <u>Meaning:</u> |
| Helicopter | Wish to conduct transfer or boarding in the indicated location |
- (ii) Signal: Vertical motion with arm or flag, or "Thumbs-Up" indication
- | | | |
|-----------------|---|--------------------------------------|
| <u>Used by:</u> | <u>Situation:</u> | <u>Meaning:</u> |
| Either | Before transfer | Ready to conduct transfer; |
| Vessel | Before transfer | Desire transfer from this position; |
| Helicopter | After dropping the guide line | Take up the slack on the guide line; |
| | After taking up the slack on the guide line | Pull in gently on the guide line; |
| Either | At any time | Affirmative response. |
- (iii) Signal: Horizontal motion with arm or flag, or "Thumbs-Down" indication
- | | | |
|-----------------|--|---|
| <u>Used by:</u> | <u>Situation:</u> | <u>Meaning:</u> |
| Vessel | Before transfer | Transfer not recommended from this position-recommend alternative (and point towards desired position); |
| Either | Before transfer | Not ready to conduct transfer; |
| Vessel | During transfer | Request you stop the transfer; |
| Helicopter | After dropping the guide line | Ease the tension on the guide line; |
| | After easing the tension on the guide line | Release the guide line; |
| Either | At any time | Negative response. |
5. A visual display of the symbol YU by the helicopter or the radio transmission of YANKEE UNIFORM to the fishing vessel indicates the signals in paragraph 7 are to be used for inspection communications.
6. The following situations are representative of conditions under which a personnel helicopter hoist transfer shall NOT be attempted:

- (i) In the opinion of the captain of the helicopter or the master of the vessel, there is inadequate clear space for a transfer or there are too many obstructions;
- (ii) There is significant vessel motion such that, in the opinion of the captain of the helicopter or the master of the vessel, a hazard exists ;
- (iii) The helicopter cannot position itself with an acceptable relative wind; and
- (iv) Other hazards exist which prejudice the safety of the helicopter or the vessel or of personnel being transferred.

| 7. | <u>IMO Signal</u> | <u>IMO Meaning</u> | <u>Remarks</u> |
|----|-------------------|--|---|
| | SQ 3 | You should stop, or heave to, I am going to board you | The display of inspection pennant indicates the presence of an authorized inspection team in the helicopter |
| | MG | You should steer course | Course is true. |
| | IK-RQ | Request you proceed at _____ Knots | |
| | AZ | I cannot alight but I can lift crew | Indication of intentions to conduct helicopter hoist transfer (used with BB signal) |
| | BB1-RQ | May I alight on your deck;) are you ready to receive) me forward? .))))))) | Used in conjunction with signal AZ to indicated helicopter will not alight but will conduct a hoist transfer in the area indicated. |
| | BB2-RQ | May I alight on your deck;) area are you ready to receive) me amidships?)) | |
| | BB3-RQ | May I alight on your deck;) are you ready to receive me) aft?) | |
| | K | I wish to communicate with you by (extracts from IMO Table 1) 6...International Code Flags 8...Radiotelephony 2182 KHZ 9...VHF Radiotelephony Channel 16 | |

| | | |
|----|--|---|
| YX | I wish to communicate by radio- telephony on frequency indicated | |
| C | YES (affirmative) | |
| N | NO (negative) | November Oscar by voice or radio transmission |
| YU | I am going to communicate with your station by means of the International Code of Signals | |
| BT | Helicopter is coming to you now (or at time indicated). | |

Annex 21 **NAFO Inspection Seal**

NAFO INSPECTION SEAL

The NAFO Inspection Seal shall be as follows:

| | |
|------------------------|---|
| Name: | LOB TAG |
| Mark: | "NAFO Inspection No. of six digits" |
| Material: | polyethylene recyclable |
| Color: | orange |
| Melt index: | 6.70 ± .60 (by international standard) |
| Density: | .953 ± .003 (by international standard) |
| Breaking point (load): | min. 45 kg (t° 20°C) |
| Length: | 28 cm |
| Width: | 1.3 cm |

A sketch of the NAFO Inspection Seal:

Refer to page 52 of NAFO FC Doc. 00/1

Annex 22 **Port Inspection Report**

Refer to page 21 of the supplement to FC Doc. 00/1

Attachments

STACTIC forms

Refer to page 79 ff in FC 00/1

Annex 3. Items Requiring Further Consideration by the Drafting Group

- Should observer related duties of the master be consolidated in the article relating to obligations of the master?
- Should provisions relating to the markings of helicopters conducting inspections be moved to an annex?
- Ref: article 13(5): The predecessor provision referred to obligations in Part I. Review is needed to ensure that a reference to Chapter I fully captures the substance of Part I.
- The drafting group did not have time to complete a detailed examination of the annexes. On a very quick review, the drafting group suggested the following items for its future consideration:
 - Annex 2: streamline headings
 - Annex 3: include a diagram of the new gauge for skate mesh
 - Annex 6: new, return some provisions to the body of the measures
 - Annex 7: new, return some provisions to the body of the measures
 - Annex 8: delete otter trawl portions
 - Annex 11: revise in light of VMS related changes made to related article
 - Annex 15: delete descriptions of reports
 - Annex 16: revise either to delete repetition of measures in the inspection form or, if the inclusion of measures in the form is a useful reference tool for inspectors, ensure that the repetition of measures is complete
 - Annex 17: delete
 - Annex 19: conduct technical review and delete as possible
 - Annex 20: conduct user review and delete as possible

Annex 4. Items Requiring Guidance from STACTIC

- Some provisions are written with reference to vessels (eg: vessels shall not) while others are written with reference to Contracting Parties (eg: Contracting parties shall ensure that vessels shall not). Further consideration is needed as to whether a more uniform drafting style in which all but the measures solely the responsibility of the Contracting Party are written with reference to vessels would be appropriate.

- The Conservation and Enforcement Measures contain some text which is more in the nature of a political statement than an operational requirement. Possible examples of these statements are the language that appears in I.F (Other Measures – No Directed Fishery for Cod in Div. 3L in the Regulatory Area), I.I (Other Measures – No Directed Fishery for Witch in Division 3L in the Regulatory Area) and the chapeau of Part VI (Program for Observers and Satellite Tracking). In keeping with their purpose, the Conservation and Enforcement Measures should not contain statements that lack an operational objective; rather, such declarations are better placed in the report of the Fisheries Commission. The Drafting Group has attempted to include only the operational language in the redrafted Conservation and Enforcement Measures. (Note that there was a difference, not fully reflected in the redrafted measures, in views of members of the drafting group as to which components of the chapeau of Part VI were substantive and which were purely political in nature.)

- The Conservation and Enforcement Measures contain a number of time-limited provisions. Those provisions which are intended to expire after a given deadline (eg: quotas) should be grouped in one section, such as the quota table. Those provisions which are time-limited but, as demonstrated by their repeated renewal by the Fisheries Commission, are more permanent in nature, should cease to have specific expiry dates. Examples of the latter type of measure are provisions on shrimp gear.

- Ref: article 2: The drafting group discussed insertion of a definition of “infringement” and considered but did not reach consensus on the following language.

“infringement” means any activity or omission of a fishing vessel which gives clear grounds for suspecting that a violation of applicable provisions of the Conservation and Enforcement Measures has occurred and which will be noted in an inspection report in accordance with the Scheme.

Among issues discussed were:

- whether an infringement which is not documented by an inspector but rather appears elsewhere, eg: in a surveillance report or an observer report, can be termed an infringement;
- whether an infringement documented by an inspector but not yet acted upon by a flag state can be an infringement or would better be termed an “apparent infringement”; and
- whether “clear grounds” is the appropriate standard.

In the interest of clarity, the drafting group has replaced “apparent infringement” with “infringement” in the redrafted text. Depending on the outcome of discussions on this issue, it may need to be reconsidered.

- Ref: article 2: The Drafting Group queried whether additional definitions might improve the Conservation and Enforcement Measures. In particular, consideration might be given to definitions for “inspection vessel”, “commercial fishing” and “directed fishery” (see note on article 9).

- Ref: article 6(3): This provision could be moved to a footnote in the quota table.
- Ref: article 7: These closed fisheries could alternately be listed in the quota table.
- Ref: article 9: Note that there is a STACTIC proposal pending which, if adopted, will revise this article substantially. Note also that the definition of directed fishery contained in the STACTIC proposal could be placed in the general definition section or in this article. Note also that there is a link between article 9 and article 3 and that terminology (eg: “close”, “ban on fishing”) used in the two articles should be clarified and made consistent.
- Ref: article 10(5): This provision was identified as redundant by STACTIC and should be deleted. Note also that this article is the only one to use the phrase “fishing primarily”; a reference to a directed fishery would be more appropriate if the article is retained.
- Ref: article 12: Note that the restrictions could alternately be placed in the sections dealing with 3L and 3M shrimp. However, the insertion of an article on area and time closures provides a useful place for any future provisions of this nature. With respect to article 12(2), it would be useful to create a diagram of the referenced area and insert it as figure 3.
- Ref: article 14(3): As the Secretariat has calculated the number of shrimp fishing days available to each Contracting Party in accordance with article 14 and included it in the quota table, this provision could be deleted.
- Ref: article 15(5): The phrase “and the method by which any modification of engine power has been carried out and clearly explained” would not seem to be necessary and should be deleted.
- Ref: article 19(3): Consideration should be given to altering the requirement to retain records on board to “for a period of at least twelve months”.
- Ref: articles 20(4) and (5): These articles refer to reports which are not generally made or which would be better carried out under the auspices of the Scientific Council. The provisions should be deleted or replaced with more appropriate equivalents.
- Ref: article 21: If and when NAFO’s VMS supports it, these requirements would be better included in the VMS portion of the measures.
- Ref: articles 27, 35 and 36: Consideration should be given to combining the procedures to be followed concerning action taken on infringements found in inspection reports and information supplied in surveillance reports in the same article.
- Ref: articles 28(5) and (6): The predecessor provisions for these articles provided a list of tasks which inspectors could perform notwithstanding an objection to quota made by a Contracting Party pursuant to article XII of the NAFO Convention. The redraft of the measures omits these specified powers in favour of a generalized provision. Some members of the Drafting Group believed that retention of these specified powers was desirable. In 28(5) the Drafting Group also retained, essentially unchanged, the wording from the original provision. However, clarification of this wording would be useful.
- Ref: article 29(e): The provision regarding pennant flying by pair trawlers is obsolete and should be deleted.

- Ref: article 30(4): The provision relating to written statements should inspectors make comments in point 20 of the inspection report is redundant with article 20(3) and should be deleted.
- Ref: articles 31 and 32: There may be redundancy between parts of these two articles which could be removed by their combination. However, this would require some degree of substantive change.
- Ref: article 32(3): Language relating to the choice of port should be clarified.
- Ref: article 37: Members of the Drafting Group queried whether this provision had ever been used. Some members of the Drafting Group indicated that if it had never been used its deletion should be considered. It was also noted that the provision may need to be revisited in the context of any overall dispute settlement mechanism for NAFO.
- Ref: Chapter V: Some members of the Drafting Group queried whether a provision indicating that port inspections, in the same vein as at-sea inspections, should exclude measures to which a Contracting Party had objected pursuant to article XII of the NAFO Convention.
- A provision along the lines of the NEAFC article on authorization to fish could be included at the beginning of Chapter II. Draft text could read:

Authorisation to Fish

Each Contracting Party shall:

1. authorize the use of fishing vessels flying its flag for fishing activities under Article 2 only where it is able to exercise effectively its responsibilities in respect of such vessels;
 2. ensure that only authorised fishing vessels flying its flag conduct fishing activities under Article 2;
 3. ensure that fishing vessels flying its flag comply with applicable measures adopted under the NAFO Convention.
 4. undertake to manage the number of authorised fishing vessels and their fishing effort commensurate to the fishing opportunities available to that Contracting Party in the Regulatory Area.
- Consideration should be given to referencing international standards for gear marking, such as the Convention on Conduct of Fishing Operations in the North Atlantic (signed in London on 1 June 1967).
 - The Drafting Group noted that objections of Contracting Parties are currently placed in the Conservation and Enforcement Measures by way of footnotes. This practice could be continued. Alternatively, for reference, it could be useful to place a list of objections in a preface to the Conservation and Enforcement Measures.

SECTION VII

(pages 281 to 352)

Report of the General Council and its Subsidiary Bodies (STACFAD and STACFAC), 24th Annual Meeting 16-20 September 2002 Santiago de Compostela, Galicia, Spain

| | | |
|----------|--|-----|
| PART I. | Report of the General Council..... | 285 |
| | 1. Opening of the Meeting..... | 285 |
| | 2. Supervision and Coordination of Organizational, Administrative and Other Internal Affairs | 286 |
| | 3. Coordination of External Relations | 286 |
| | 4. Fishing Activities in the Regulatory Area Adverse to the Objectives of the NAFO Convention | 287 |
| | 5. Finance | 290 |
| | 6. Closing Procedures..... | 291 |
| | Annex 1. List of Participants..... | 293 |
| | Annex 2. Opening Statement by the Representative of Canada (P. Chamut) | 307 |
| | Annex 3. Opening Statement by the Representative of the European Union (J. Spencer)..... | 309 |
| | Annex 4. Opening Statement by the Representative of the Republic of Korea (Oh Choong-Shin)..... | 311 |
| | Annex 5. Opening Statement by the Representative of Ukraine (V. Chernik)..... | 313 |
| | Annex 6. Opening Statement by the Representative of the United States of America (J. H. Dunnigan)..... | 314 |
| | Annex 7. Agenda | 316 |
| | Annex 8. Press Release | 318 |
| | Annex 9. Bulgarian Declaration on Repayment of the Bulgarian outstanding contributions (for the years 1993-2002)..... | 322 |
| | Annex 10. Letter Regarding Romania's Withdrawal from NAFO | 323 |
| | Annex 11. Scientific Council Consideration of Memorandum of Understanding with ICES..... | 324 |
| | Annex 12. Schedule of NAFO Intersessional Meetings, 2002-2003 | 325 |
| PART II. | Report of the Standing Committee on Finance and Administration (STACFAD) | 326 |
| | 1. Opening by the Chairman..... | 326 |
| | 2. Appointment of Rapporteur..... | 326 |
| | 3. Adoption of Agenda | 326 |
| | 4. Auditors' Report | 326 |
| | 5. Status of the spending for the implementation of the Automated Hail/VMS System | 327 |

| | |
|---|-----|
| 6. Review and evaluation of work descriptions for NAFO employees in the CR category with respect to consideration and application of Canadian Pay Equity Settlement | 327 |
| 7. Meeting of the Pension Society | 327 |
| 8. Administrative and Financial Statements for 2002 | 328 |
| 9. Review of Accumulated Surplus Account..... | 328 |
| 10. Salary Scale for the NAFO Executive Secretary | 328 |
| 11. Budget Estimate for 2003 | 329 |
| 12. Budget Forecast for 2004 | 330 |
| 13. Recruitment of the new Executive Secretary | 330 |
| 14. Time and Place of 2004 and 2005 Annual Meetings..... | 331 |
| 15. Other Issues including any questions referred from the General Council during the current Annual Meeting..... | 331 |
| 16. Adjournment | 332 |
| Annex 1. List of Participants..... | 333 |
| Annex 2. Agenda | 334 |
| Annex 3. Status of spending for the implementation of the Automated Hail/VMS System..... | 335 |
| Annex 4. Bulgarian declaration on repayment of the Bulgarian outstanding contributions (for the years 1993-2002)..... | 336 |
| Annex 5. Schedule of Outstanding Contributions from Bulgaria and Romania..... | 337 |
| Annex 6. Scientific Council recommendation regarding CWP participation..... | 338 |
| Annex 7. Budget Estimate for 2003 | 339 |
| Annex 8. Preliminary Calculation for 2003 | 340 |
| Annex 9. Preliminary Budget Forecast for 2004..... | 341 |
| Annex 10. Amendments to Rule 7.1 of NAFO Staff Rules | 342 |
| | |
| PART III. Report of the Standing Committee on the Fishing Activities of Non-Contracting Parties in the Regulatory Area (STACFAC) | 343 |
| 1. Opening by Chairman | 343 |
| 2. Appointment of Rapporteur..... | 343 |
| 3. Adoption of Agenda | 343 |
| 4. Review of 2002 information on activities of Non-Contracting Party vessels in the Regulatory Area | 343 |
| 5. Review of 2002 information on landings and transshipments of fish caught by Non-Contracting Party vessels in the Regulatory Area | 343 |
| 6. Review of information on imports of species regulated by NAFO from Non-Contracting Parties whose vessels have fished in the Regulatory Area | 344 |
| 7. Reports by Contracting Parties on diplomatic contacts with Non-Contracting Party Governments concerning fishing in the Regulatory Area | 344 |
| 8. Reports by Contracting Parties on legal, administrative and practical actions that have been taken to implement the NAFO Scheme..... | 344 |
| 9. Discussion of the FAO International Plan of Action to prevent, deter and eliminate illegal, unreported and unregulated fishing..... | 345 |
| 10. Report and Recommendations to the General Council..... | 345 |
| 11. Election of Chairman and Vice-Chairman | 347 |

| | |
|--|-----|
| 12. Other Matters..... | 347 |
| 13. Adjournment | 347 |
| Annex 1. List of Participants..... | 348 |
| Annex 2. Agenda | 349 |
| Annex 3. Letter to Russian Federation..... | 350 |
| Annex 4. Letter to Belize | 351 |
| Annex 5. Letter to Cyprus..... | 352 |

PART I

Report of the General Council Meeting (GC Doc. 02/4)

24th Annual Meeting, 16-20 September 2002 **Santiago de Compostela, Galicia, Spain**

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

- 1.1 The Meeting was opened by the Chair of the General Council, E. Oltuski (Cuba).
- 1.2 The Representatives of seventeen (17) Contracting Parties were present: Bulgaria, Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland-DFG), Estonia, European Union, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Republic of Korea, Latvia, Lithuania, Norway, Poland, Russia, Ukraine and the United States of America (Annex 1).
- 1.3 The Chairman welcomed the delegates to the 24th Annual Meeting wishing them productive discussions and successful results of the upcoming discussions. He emphasized the NAFO commitments and goals of sustainable management of fish resources in the NAFO Convention Area.
- 1.4 The Honorable Minister of Fisheries of Galicia, Mr. Enrique Cesar Lopez Veiga, on behalf of the host country and Galician fishermen cordially invited the NAFO Meeting delegates to Galicia in the name of the Spanish Government and Galician Government. He said that "Galicia is one of the main fishing regions in Europe. We appreciate the NAFO's choice to convene this meeting in Galicia and we wish you all well and success at this meeting. Galicians believe that the sea helps to bring people together and such cooperation brings the maritime nations together for better understanding and close collaboration. We are friendly people and in this spirit, wishing you full consensus in all your agreements. And when you successfully adjourn your Annual Meeting, we would be glad to show you our friendly land and people so that you would wish sometime to come back to visit us again. Thank you very much! Again, welcome to the Land of Galicia!".
- 1.5 The Heads of Delegations from Canada, European Union, Republic of Korea, Ukraine and the United States forwarded their opening statements to the NAFO Secretariat (Annexes 2-6).
- 1.6 The Executive Secretary of NAFO, L. Chepel, was appointed as Rapporteur.
- 1.7 The adopted Agenda is attached in Annex 7.
- 1.8 Admission of Observers was addressed by the Executive Secretary reporting on his invitations to FAO, ICCAT, ICES, NAMMCO, NASCO, NEAFC and NPAFC in accordance with the Rules of Procedure. These organizations acknowledged NAFO's invitations and all, except FAO, NEAFC, NAMMCO, advised that they would not take part in the NAFO event due to their busy internal schedules.

FAO was represented by Mr. D. Doulman, NAMMCO was represented by the delegate of Iceland and NEAFC was represented by the delegate of Denmark (DFG).

With regards to non-Contracting Parties harvesting fishing resources in the NAFO area, invitations were dispatched to Belize, Honduras, Sao Tome e Principe and Sierra Leone. No responses from those countries have been received.

- 1.9 On the item of "Publicity", the meeting agreed to the existing procedure that no statements should be made to the media until after the conclusion of the meeting, when the NAFO Secretariat would issue a Press Release. The Press Release was finalized and issued at the closing session of the General Council, September 20, 2002 (Annex 8).

2. Supervision and Coordination of Organizational, Administrative and Other Internal Affairs (items 6-8)

- 2.1 The membership of NAFO was 18 Contracting Parties, the members of the General Council and Scientific Council. The membership of the Fisheries Commission (those member participating in fishery in the NAFO Area) was 16 as Bulgaria and Romania did not participate in NAFO fishery.
- 2.2 The Representative of Bulgaria was in attendance (first time since 1993), and he addressed the Meeting noting Bulgaria's intention to fully participate in NAFO activities and settle all required organizational and financial commitments according to the NAFO Convention and Financial Regulations. He further introduced Bulgaria's paper (Annex 9) explaining their schedule of repayment of the contributions "in arrears" to the end of 2004. This matter was referred to STACFAD.

At the closing session of the General Council, September 20, 2002, the Council discussed the presentation by STACFAD, and the Chairman ruled that Bulgaria's voting rights under the provisions and functions of the NAFO Convention shall be in effect from the date of Bulgaria's first instalment-debt repayment for 2001-2002 to the NAFO budget. Then Bulgaria will fulfil its outstanding financial obligations during 2003-2004. There was a consensus on this matter.

- 2.3 With respect to Romania's participation in NAFO affairs, the Meeting noted the Romanian note of withdrawal from the NAFO Convention effective 31 December 2002 (Annex 10).
- 2.4 Item 7 "Administrative Report" was referred to STACFAD. At the closing session, on the advice of the Chair of STACFAD, the Report was adopted by the General Council.
- 2.5 Under Item 8 "Selection of the Executive Secretary", the Heads of Delegations elected (by secret ballot) a new Executive Secretary – Johanne Fischer (European Union), who should take the office from 01 January 2003. She was introduced to the General Council by the Chairman and welcomed by the Delegates with cheerful acclamation and applause.

3. Coordination of External Relations (items 9-11)

- 3.1 Under item 9 "Communication with the United Nations", the Chairman noted the NAFO paper (GF/02-380, June 19, 2002) forwarded to the UN Secretariat regarding "large-scale pelagic drift-net fishing, unauthorized fishing in zones of national jurisdiction and on the high seas, fisheries by-catch and discards, and other developments" in the NAFO Convention Area. This paper was finalized from the Executive Secretary's draft through review and approval by Contracting Parties.

- 3.2 Under item 10 "FAO International Plans of Action to prevent, deter and eliminate illegal, unreported and unregulated fishing", the Secretary presented a compilation report including the FAO guidelines and Norwegian paper on this subject. There was no decision for further action by the General Council.

The Representative of Norway noted that the initial reference (by the Executive Secretary) to the management of shark fisheries and incidental catch of seabirds in long line fisheries was not relevant to the main subject of this item.

- 3.3 For the item 11, "NAFO cooperation with ICES", the Executive Secretary explained that the General Secretary of ICES, Dr. David de Griffith, was in favour, through mutual discussions, to develop closer relations between ICES and NAFO, and for this purpose the signing of a Memorandum of Understanding (MoU) between these two organizations would be a useful tool for improvement of such relations. The draft MoU was tabled by the Executive Secretary advising that this draft was reviewed and accepted provisionally in its letter and spirit by the General Secretary of ICES. This matter was referred to the Scientific Council for advice. At the closing session, the Chairman of the Scientific Council, Dr. Ralph Mayo, presented the Scientific Council's consideration along the lines that ICES-NAFO cooperation has at all times been on the scientific frontiers with several projects underway without complication and in a good cooperative spirit. He advised further that no specific MoU would be required to continue such cooperation at the present time.

Several Contracting Parties supported the idea of an MoU, and some Contracting Parties suggested that there was not need to formalize NAFO-ICES relations in such a form. Finally, the Chairman of the General Council concluded that General Council would accept the consideration by the Scientific Council (Annex 11).

- 3.4 Item 11a, "Participation in the Northwest Atlantic Regional Fisheries Organizations Meetings". The Executive Secretary explained this item of cooperation between regional (North Atlantic) fisheries organizations (NARFMO) that was initiated by the NEAFC Secretariat. There has been extensive exchange intersessionally between NAFO Contracting Parties and the Executive Secretary, who explained this idea in detail and asked for permission and mandate to take part in NARFMO meetings. Several Contracting Parties expressed their concern regarding the agenda of such meetings which should not be in the frame of policy/legal issues of NAFO, which have not been finalized or agreed by Contracting Parties, e.g. dispute settlement procedures (DSP) or precautionary approach (PA). The General Council agreed on the following interpretation/position regarding this matter (from GC W.P. 02/5 by Denmark):

"While the Executive Secretaries of the North Atlantic RFMO's obviously have no competence to decide upon the substance of the issues dealt with by the Organizations, it was generally agreed that benefits would be gained by an exchange of experience in the practicalities of running the Organizations. On this basis the General Council encouraged the Secretariat to participate in the next Meeting of North Atlantic RFMO Secretariats."

4. Fishing Activities in the Regulatory Area Adverse to the Objectives of the NAFO Convention (items 12-14)

- 4.1 Under item 12, the Contracting Parties briefly exchanged their views on the current situation of NCP fishing in the Regulatory Area. The Canadian representative noted the increased activity of NCP presence fishing in Subarea 1, Div. 1F on Redfish fishery and proposed STACFAC to consider this matter in greater detail during its following sessions.

4.2 Under item 13, the STACFAC Chairman, Daniel Silvestre (France-SPM), presented his report to the Meeting with the following highlights and recommendations (for complete details, please see Part III of this Report):

- The Executive Secretary send a letter to the Russian Federation seeking information on the registration of the six Belizean flagged fishing vessels and encouraging the Russian Federation to take action vis à vis the transshipment to a Russian flagged cargo vessel by a Non-Contracting Party vessel;
- the President of NAFO write to Belize and Cyprus seeking more information on the registration of the Belizean fishing vessels and that these letters be delivered by the Governments of France and Canada respectively;
- The Secretariat be asked to produce annually a table compiling past communications (including responses) with Non-Contracting Parties regarding fishing in the NAFO Regulatory Area;
- The NAFO Secretariat write to the NEAFC Secretariat suggesting that information on sightings of Non-Contracting Party vessels fishing in their respective regulatory areas always be exchanged without delay;
- STACFAC be mandated to determine if measures relating to all relevant provisions of the IPOA on IUU have been established in NAFO or whether further action is desirable and report its assessment to General Council. In this respect STACFAC draws to the attention of the General Council that the IPOA on IUU is relevant to both Non-Contracting Parties and Contracting Parties but that STACFAC is limited to assessing the IPOA with regard to Non-Contracting Parties;
- Contracting Parties submitting information pursuant to paragraph 6 of the Scheme should mark it accordingly for easy identification by the Secretariat, and STACFAC should develop guidance on implementation of paragraph 11 of the Scheme;
- The specific discrepancies noted between the Scheme and the Conservation and Enforcement Measures per agenda item 10 above be drawn to the attention of the Fisheries Commission for STACTIC's consideration;
- Contingent upon adoption of relevant proposals by the Fisheries Commission, that oceanic redfish (pelagic *Sebastes mentella*) be added to annex A or B, as appropriate, of the Scheme;
- It recommend to the Fisheries Commission that the Drafting Group engaged in the overhaul of the Conservation and Enforcement Measures review the possible incorporation of the entirety of the Scheme in the Conservation and Enforcement Measures as part of its work.

The Representatives approved the STACFAC recommendations and expressed their support to STACFAC activity.

The Representative of Canada emphasized that one of the most important topics of NARFMO cooperation (see item 11a) should be the exchange and monitoring of information on NCP fishing activities in the North Atlantic, and this should be a prime task for the NAFO Executive Secretary.

The Representative of the Russian Federation explained that the reference to Russian Federation vessels (Belizean flag..) would not be appropriate as the six noted vessels do not have any Russian Federation registration at present time, do not belong to any Russian Company, and, therefore there is no legal connection to the Russian Federation on this matter. These vessels probably were under Russian jurisdiction at one time but not at the current time. With respect to the transshipment to a Russian flag vessel, this will be thoroughly investigated by Russian

authorities who will report the results to the NAFO Secretariat. Russia would not accept the principle of a double standard and continues to maintain stringent control of its vessels.

The Representative of the European Union acknowledged very elaborate work and recommendations by STACFAC. He underlined that NAFO approach in the matters of communication with NCP governments should be both strong administrative and diplomatic actions. It would not be adequate to just politely ask one NCP-Belize about vessel registrations. NAFO needs a comprehensive and effective system to exchange information among Contracting Parties on transshipments and other issues of illegal, unregulated and unreported (IUU) fishing. In this case, the proposed cooperation of NARFMO would be very useful, in particular the experience of the International Commission for the Conservation of Atlantic Tunas (ICCAT) could be helpful. The EU Representative advised that the European Union is currently developing its policy of targeting IUU fishing in the context of its Common Fishery Policy, and this document, when finalized, could be circulated to Contracting Parties.

The Representative of the United States emphasized on the importance of the NCP issue to the USA as well as a number of regional fisheries management organizations, and welcomed the Russian Federation's cooperation on this matter within NAFO. He further supported the idea of close cooperation with other regional organizations on NCP fisheries and to use the experience of organizations such as ICCAT. He further advised that the USA supports the FAO initiatives and action plans on IUU fishing, responsible fisheries, shark, and seabird conservation. He urged all Contracting Parties to cooperate closely on these issues.

The General Council adopted the STACFAC Report as a whole.

- 4.3 Item 14 "Consideration of the status of the Working Group on Dispute Settlement Procedures (DSP)". The DSP Working Group met in 2001 (June 12-14) and its report (GC Doc. 01/4) was presented to the General Council by the Chairman, Mr. F. Wieland, at the Helsingør meeting (Denmark, January 2002). There were different comments on the status of the report, and the final decision was that the report should be noted as received for further consideration by the General Council at the 24th Annual Meeting.

The Contracting Parties exchanged opinions on the status of the Working Group and possible continuation of DSP discussions in the framework of a Working Group. The European Union Representative supported the continuation of the DSP Working Group with the aim of developing a NAFO dispute settlement procedure relevant to NAFO and reflecting the Contracting Parties' needs and their experience in the Northwest Atlantic fisheries affairs.

The Representative of Canada stated that Canada would be prepared to work towards finalization of the work of the Working Group on Dispute Settlement Procedures on the understanding that Canada would not agree to its application until other provisions of the 1995 United Nations Agreement on Straddling and Highly Migratory Fish Stocks are implemented in NAFO. In this regard, he stated that Canada would be prepared to re-examine its position on all bracketed language in the Consolidated Text 2001 (DSP WG WP 01/7-Revision 2). However, he noted that Canada would insist on incorporating in the text a clear statement that where the dispute settlement provisions of the UN Fish Stocks Agreement or the United Nations Convention on the Law of the Sea (UNCLOS) apply, nothing in a NAFO dispute settlement provision would be interpreted as depriving a party to the UN Fish Stocks Agreement or UNCLOS of its right to seek resolution of the dispute under those treaties.

The European Union Representative proposed to organize consultations between Canada, the EU and the USA to identify the grounds for discussions and possible avenues to achieve

progress on this matter. The outcome of such consultations will be reported to the Chairman of the General Council, and then there should be a decision on whether to proceed with a Working Group meeting. The Representatives of Canada and United States supported the EU suggestion.

The Representative of Latvia emphasized that in this matter, all Contracting Parties should take active participation as DSP procedures would be very important not only for Canada, EU and USA.

The General Council agreed to undertake consultations between interested Contracting Parties, and, if necessary, then to convene the DSP Working Group.

5. Finance (items 15-16)

5.1 Items 15-16 were referred to the Standing Committee on Finance and Administration (STACFAD). The STACFAD proceedings are presented in Part II of this General Council Report.

5.2 The Chairman of STACFAD, G F. Kingston (EU), presented its report to the General Council on 20 September and highlighted the following recommendations:

- a) the 2001 Auditors' Report be adopted.
- b) the Secretariat engage a Human Resources Consultant, at an estimated cost of \$2,400, to prepare job descriptions for 3 other employees that had previously been in the CR category, which would then be forwarded to Canada for its analysis.
- c) the contribution from Romania be deemed uncollectable and that the amount be applied against the Accumulated Surplus Account. The Chairman noted Romania's announcement to withdraw from NAFO as of 31 December 2002.
- d) that contributions, which had been deemed uncollectable in prior years, shall be returned to the Accumulated Surplus Account. The distribution of these recovered contributions shall be returned to Contracting Parties as a reduction of the following year's assessed contributions. The distribution shall be calculated on the same basis as the year of the original billing distribution when the contributions were deemed uncollectable.
- e) that \$75,000 be maintained as a minimum balance in this account in order to fulfill NAFO's financial obligations in early 2003 until contributions are received. The remaining estimated accumulated surplus balance of \$106,286 at the end of 2002 would be used to reduce contributions due from Contracting Parties in 2003.
- f) the starting salary of the incoming Executive Secretary be set at the maximum level in the EX-2 Category of the Canadian system. Under this system there is the eligibility for a performance bonus at the end of her first year in office (as per the previous paragraph). (Appraisal at Annual Meeting, September 2003.)

It was agreed that the establishment of this salary for the incoming Executive Secretary should not presuppose future considerations of job classification and/or salary scale.

STACFAD further agreed that the broad issue of possible changes in the job classification system and salary scale of the Executive Secretary be deferred to the 2003 Annual Meeting, including the possibility of enhanced duties and responsibilities.

- g) the budget of \$1,385,400 for the year 2003 be adopted.
- h) the dates for the 2005 Annual Meeting be as follows, with the location in Halifax, unless an invitation to host is extended by a Contracting Party and accepted by the Organization:
- | | | |
|----------------------|---|-----------------|
| Scientific Council | - | 07-16 September |
| General Council | - | 12-16 September |
| Fisheries Commission | - | 12-16 September |

The dates of the 2003 and 2004 Annual Meetings, as previously agreed upon, are as follows:

| | | | |
|------|----------------------|---|-----------------|
| 2003 | Scientific Council | - | 10-19 September |
| | General Council | - | 15-19 September |
| | Fisheries Commission | - | 15-19 September |
| 2004 | Scientific Council | - | 08-17 September |
| | General Council | - | 13-17 September |
| | Fisheries Commission | - | 13-17 September |

5.3 Regarding NAFO Publications and Public Information STACFAD recommended that:

- the Secretariat continue to accelerate the transition from print to electronic (outgoing) communication to both the public and Contracting Parties with a view to dramatically reducing costs and improving efficiency and timeliness of such transmissions;
- in principle, the primary means of disseminating information to Contracting Parties should be via e-mail and website access, utilizing password protected links as necessary;
- a regular review of e-mail addresses be undertaken to ensure that they are valid and up-to-date; and
- the Secretariat continue to vigorously pursue avenues to improve the day-to-day operations of the Organization and to modernize its communication systems and procedures.

In principle, the primary means of providing information to the public be through the NAFO website with the availability of hardcopy material at a nominal fee in order to recover printing and mailing costs.

5.4 The General Council discussed the STACFAD recommendations and adopted the 2003 budget and report as a whole.

6. Closing Procedures (items 17-20)

- 6.1 Item 17, "Time and Place of Next Annual Meeting" was reported by STACFAD (above).
- 6.2 Under item 18 "Other Business", the Chairman introduced a "Schedule of NAFO Intersessional Meetings, 2002-2003" which was adopted by the General Council (Annex 12).
- 6.3 The draft Press Release was circulated to Heads of Delegations on Thursday, September 19, and was finalized by the Secretariat after the Meeting incorporating the relevant comments by Contracting Parties (Annex 8).

- 6.4 At the conclusion, the Chairman and Heads of Delegations wished all the best to the outgoing Executive Secretary, Leonard Chepel, who in response took the floor and expressed his gratitude to Contracting Parties and his colleagues at the Secretariat for their cooperation during his 12-year assignment with NAFO. Mr. Chepel presented all Contracting Parties' delegations with his memorable token of historical book – "Northwest Atlantic: Fisheries, Science, Regulations, XX Century", which summarizes all major developments and decisions by two international organizations in the Northwest Atlantic – ICNAF and NAFO during XX Century.
- 6.5 The meeting adjourned at 1300, September 20, 2002.

Annex 1. List of Participants

BULGARIA

Head of Delegation

K. Kodzhabashev, First Counsellor, Embassy of the Republic of Bulgaria, trav. Santa Maria Magdalena, 15, Madrid 28016, Spain
Phone: +34 913 455 761 – Fax: +34 913 456 651 – E-mail: kkodzhabashev@yahoo.es

CANADA

Head of Delegation

P. S. Chamut, Assistant Deputy Minister, Dept. of Fisheries and Oceans, Fisheries Management, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 9864 – Fax: +613 990 9557

Representatives

P. Chamut (see address above)
J. Angel, Executive Director, Canadian Association of Prawn Producers, P. O. Box 1C1, Head of St. Margarets Bay, N.S. B0J 1R0
Phone: +902 826 7765 - Fax: +902 826 7065 - E-mail: jangel@hfx.eastlink.ca
E. McCurdy, President, Fishermen, Food and Allied Workers Union/CAW, P. O. Box 10, St. John's, Newfoundland A1C 5H5
Phone: +709 576 7276 - Fax: +709 576 1962

Advisers

C. Allen, Senior Advisor, Fisheries, Environment & Biodiversity Science Directorate, Dept. of Fisheries and Oceans, 200 Kent Street, 12th Floor, Ottawa, Ontario K1A 0E6
Phone: +613 990 0105 - Fax: +613 954 0807 – E-mail: allenc@dfo-mpo.gc.ca
R. Andrews, Director, Government and Industry Relations, Fishery Products International, 70 O'Leary Ave., P. O. Box 550, St. John's, Newfoundland A1C 5L1
Phone: +709 570 0115 – Fax: +709 570 0436 – E-mail: randrews@fpil.com
D. B. Atkinson, Regional Director, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 2027 - Fax: +709 772 6100 - E-mail: atkinsonb@dfo-mpo.gc.ca
J. W. Baird, Regional Director, Fisheries Management, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 4543 - Fax: +709 772 2046 - E-mail: bairdj@dfo-mpo.gc.ca
G. Beaupré, Director-General, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent Street, 13th Floor, Stn 13-159, Ottawa, Ontario K1A 0E6
Phone: +613 993 1873 - Fax: +613 993 5995 - E-mail: beaupreg@dfo-mpo.gc.ca
D. Bevan, Director-General, Resource Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 6794 – Fax +613 954 1407 – E-mail: bevand@dfo-mpo.gc.ca
C. Bonnell, Director, Fisheries and Sealing Div., Dept. of Sustainable Development, P. O. Box 1000, Station 1196, Iqaluit, Nunavut X0A 0H0
Phone: +867 975 5968 – Fax: +867 975 5980 – E-mail: cbonnell@gov.nu.ca

N. Bouffard, Director, Atlantic Div., International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
 Phone: +613 993 1860 - Fax: +613 993 5995 - E-mail: bouffardn@dfo-mpo.gc.ca

W. R. Bowering, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 - Fax: +709 772 6100 - E-mail: boweringr@dfo-mpo.gc.ca

B. Brodie, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 3288 - Fax: +709 772 6100 - E-mail: brodieb@dfo-mpo.gc.ca

B. Chapman, Executive Director, Groundfish Enterprise Allocation Council, 1388 River Road, Manotick, Ontario K4M 1B4
 Phone: +613 692 8249 - Fax: +613 692 8250 - E-mail: bchapman@sympatico.ca

T. Dikranian, Team Leader, Fisheries Mgmt., Communications, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
 Phone: +613 993 7356 - Fax: +613 990 1866 - E-mail: dikraniant@dfo-mpo.gc.ca

T. Dooley, Director, Resource Policy, Dept. of Fisheries and Aquaculture, P. O. Box 8700, St. John's, Newfoundland A1B 4J6
 Phone: +709 729 0335 - Fax: +709 729 6082 - E-mail - tdooley@matl.gov.nf.ca

A. Dudoit, Ambassador, Embassy of Canada, Núñez de Balboa, 35, 28001 Madrid, Spain
 Phone: +34 91 423 32 03 - Fax: +34 91 423 32 51 - E-mail: alain.dudoit@dfait-maeci.gc.ca

J. Dwyer, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 8831 - Fax: +709 772 2046 - E-mail: dwyerji@dfo-mpo.gc.ca

W. Evans, Supervisor, Offshore Surveillance, Conservation and Protection, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 4412 - Fax: +709 772 5983 - E-mail: evansw@dfo-mpo.gc.ca

W. Follett, Regional Director General, Newfoundland and Labrador Region, Dept. of Fisheries, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 4417 - Fax: +709 772 6306 - E-mail: follettw@dfo-mpo.gc.ca

D. Forsythe, Counsellor (Fisheries and Environment), Mission of Canada to the European Communities, Avenue de Tervuren, 2, Brussels 1040, Belgium
 Phone: +32 2 741 0688 - Fax: +32 2 741 0629 - E-mail: douglas.forsythe@dfait-maeci.gc.ca

S. Horsey, Finance and Administration Advisor, International Affairs, Dept. of Fisheries and Oceans, 200 Kent Street, Stn. 13159, Ottawa, Ontario K1A 0E6
 Phone: +613 993 1898 - Fax: +613 993 5995 - E-mail: horseys@dfo-mpo.gc.ca

D. Kulka, Head, Resource Sampling - Aquatic Resources, Science, Oceans and Environment, Nfld. Region, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 2064 - Fax: +709 772 5469 - E-mail: kulkad@dfo-mpo.gc.ca

B. Lester, Resource Management Officer-Groundfish, Resource Management - Atlantic, Fisheries Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
 Phone: +613 990 0090 - Fax: +613 990 7051 - E-mail: lesterb@dfo-mpo.gc.ca

P. McGuinness, Vice-President, Fisheries Council of Canada, 38 Antares Drive, Suite 110, Nepean, Ontario K2E 7V2
 Phone: +613 727 7450 - Fax: +613 727 7453 - E-mail: pmcguinness@fisheriescouncil.org

B. J. McNamara, President, Newfoundland Resources Ltd., 90 O'Leary Avenue, St. John's, Nfld. A1B 4G1
 Phone: +709 579 7676 - Fax: +709 579 7668 - E-mail: nrl@nfld.com

J. Morgan, Science, Ocean and Environment Branch, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 2261 - Fax: +709 772 4105 - E-mail: morganj@dfo-mpo.gc.ca

- A. O'Rielly, President, Fisheries Association of Newfoundland and Labrador Ltd., P. O. Box 8900, St. John's, Newfoundland A1B 3R9
Phone: +709 726 7223 – Fax: +709 754 3339 – E-mail: aoielli@nfld.com
- G. Peacock, Executive Director, Federal/Provincial Relations, Maritimes Region, Dept. of Fisheries and Oceans, 176 Portland St., P. O. Box 1035, Dartmouth, Nova Scotia B2Y 4T3
Phone: +902 426 3625 – Fax :902 426 5034 – E-mail: peacockg@mar.dfo-mpo.gc.ca
- G. Reid, Minister of Fisheries and Aquaculture, Government of Newfoundland and Labrador, P. O. Box 8700, Petten Bldg., St. John's, Newfoundland A1B 4J6
Phone: +709 729 3705 – Fax: +709 729 0360 – E-mail: greid@gov.nf.ca
- M. Samson, Deputy Minister, Department of Fisheries and Aquaculture, Government of Newfoundland and Labrador, P. O. Box 8700, St. John's, Newfoundland A1B 4J6
Phone: +709 729 3707 – Fax: +709 729 0360 – E-mail: msamson@mail.gov.nf.ca
- A. Saunders, Legal Officer, Oceans, Environment and Economic Law Division, Dept. of Foreign Affairs and International Trade, 125 Sussex Drive, Ottawa, Ontario K1A 0G2
Phone: +613 996 2643 - Fax: +613 992 6483 - E-mail: allison.saunders@dfait-maeci.gc.ca
- M. Short, Special Advisor, NAFO, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 6369, Cell +709 682 3110 – E-mail: shortm@dfo-mpo.gc.ca
- D. Sproule, Department of Foreign Affairs and International Trade, 125 Sussex Drive, Ottawa, Ontario K1A 0G2
Phone: +613 992 2104 - E-mail: david.sproule@dfait-maeci.gc.ca
- D. Stansbury, Science, Ocean and Environment Branch, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-0559 - Fax: +709-772-4105 – E-mail: stansburyd@dfo-mpo.gc.ca
- P. Steele, Director, Enforcement Br., Conservation and Protection, Fisheries Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 0109 – Fax +613 941 2718 – E-mail: steelep@dfo-mpo.gc.ca
- R. Steinbock, Senior Advisor, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
Phone: +613 993 1836 - Fax: +613 993 5995 - E-mail: steinbob@dfo-mpo.gc.ca
- R. Stirling, President, Seafood Producers Association of Nova Scotia, P. O. Box 991, Dartmouth, N. S. B2Y 3Z6
Phone: +902 463 7790 – Fax: +902 469 8294 – E-mail: spans@ns.sympatico.ca
- L. Strowbridge, Director, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 8021 - Fax: +709 772 2046 - E-mail: strowbridgel@dfo-mpo.gc.ca
- R. Stubbart, Embassy of Canada, Núñez de Balboa, 35, 28001 Madrid, Spain
Phone: +34 91 423 32 03 – Fax: +34 91 423 32 51 – E-mail: russell.stubbart@dfait-maeci.gc.ca
- J. Ward, CEO, Baffin Fisheries Coalition, 189 Water Street, St. John's, Newfoundland A1C 1B4
Phone: +709 726 6328 – Fax: +709 726 6355 – E-mail: jvward@roadrunner.nf.net
- B. Whelan, Head, NAFO Unit, Conservation and Protection, Fisheries Management, Nfld. Region, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 0928 – Fax: +709 772 2046 – E-mail: whelanb@dfo-mpo.gc.ca
- F. Woodman, Chairman, Fisheries Resource Conservation Council, P. O. Box 2001, Station D, Ottawa, Ontario K1P 5W3
Phone: +613 998 0433 - Fax: +613 998 1146 - E-mail: costah@dfo-mpo.gc.ca

CUBA**Head of Delegation**

E. Oltuski, Vice-Minister, Ministerio de la Industria Pesquera, 5^{ta} Avenue y 246, Sta Fe, Barlovento
 Phone: +537 297008 – Fax: +537 246297 –E-mail: oltuski@fishnavy.inf.cu

Alternate

V. E. Sardá Espinosa, Ministerio de la Industria Pesquera, 5^{ta} Avenue y 246, Sta Fe, Barlovento,
 Ciudad de la Habana
 Phone: +537 297034 - Fax: +537 249168 - E-mail: abogados@fishnavy.inf.cu

Advisers

R. Cabrera, Ministerio de la Industria Pesquera, 5^{ta} Ave y 246, Playa Barlovento, Ciudad de la
 Habana
 Phone: +537 209 7997 – Fax: +537 204 9168 – E-mail: rinter@fishnavy.inf.cu
 H. Hernández Reinoso, Cónsul General de la Republica de Cuba, Dr. Teijeiro, 5-4.o, 15701 Santiago
 de Compostela, Spain
 Phone: +34 981 57 61 43 – Fax: +34 981 57 61 68
 O. Egea Alvarez, Pescafina, S.A., Feraz, 50, planta 5^a, 28008 Madrid, Spain
 Phone: +53 7 95 11 40/41- Fax: +53 7 95 11 42 – E-mail: oegea@pescafina.com

DENMARK (IN RESPECT OF FAROES AND GREENLAND)**Head of Delegation**

E. Rosing, Head of Unit, Dept. of Industry, Greenland Home Rule, Box 269, 3900 Nuuk, Greenland
 Phone: +299 34 53 32 – Fax: +299 32 47 04 – E-mail: emanuel@gh.gl

Alternate

A. Kristiansen, Ministry of Fisheries and Maritime Affairs, Yviri við Strond 17, P. O. Box 347, FO
 -110 Torshavn, Faroe Islands
 Phone: + 298 35 30 30 - Fax: +298 35 30 37 - E-mail: andrask@fisk.fo

Advisers

J. Joensen, Manager, PF. Lidin, FO-410 Kollafjordur, Faroe Islands
 Phone: +298 421448 – Fax: +298 421584 – E-mail: lidin@post.olivant.fo
 M. Kruse, Vaktar-og Bjargingartaenastan, P. O. Box 347, FR-110 Torshavn, Faroe Islands
 Phone: +298 311065 – Fax: +298 313981 – E-mail: yb@yb.fo
 E. Lemche, Head of Representation, Gronlands Hjemmestyre, Pilestraede 52, Box 2151, DK-1016
 Copenhagen K, Denmark
 Phone: +45 33 69 34 35 - Fax: +45 33 69 34 01 - E-mail: el@ghsdk.dk
 L. D. Madsen, Head of Section, Dept. of Industry, Greenland Home Rule, Box 269, 3900 Nuuk,
 Greenland
 Phone: +299 34 53 29 - Fax: +299 32 47 04 - E-mail: ldm@gh.gl
 M. T. Nedergaard, Fiskerilicensinspektor, Head of Unit, Gronlands Fiskerilicenskontrol, Postbox
 501, DK-3900 Nuuk, Greenland
 Phone: +299 345377 - Fax: +299 323235 - E-mail: mads@gh.gl

A. Nicolajsen, Fiskirannsóknarstovan, Noatun 1, P. O. Box 3051, FR-110 Torshavn, Faroe Islands
 Phone: +298 31 5092 - Fax: +298 31 8264 - E-mail: arninic@frs.fo
 J. Norðbúð, Foroya Reidarafelag, Box 361, FO-101 Torshavn, Faroe Islands
 Phone: +298 311800 – Fax: +298 320380 – E-mail: shipown@post.olivant.fo
 A. Olafsson, Udenrigsministeriet, Asiatisk Plads 2, DK-1448 Copenhagen, Denmark
 Phone: +45 33 920341 – Fax: +45 33 920177 – E-mail: arnola@um.dk
 J. H. Toftum, Ministry of Fisheries, P. O. Box 64, FO-100 Torshavn, Faroe Islands
 Phone: +298 353030 - Fax: +298 353035 - E-mail: jenst@fisk.fl.fo

ESTONIA

Head of Delegation

A. Soome, Director General, Fishery Resources Dept., Ministry of the Environment, Ravala 8, 10143 Tallinn
 Phone: +372 6604 543 - Fax: +372 6604 599 - E-mail: ain.soome@ekm.envir.ee

Representative

A. Soome (see address above)

Advisers

T. Roose, Deputy Director General, Estonian Environmental Inspectorate, Kopli 76, 10416 Tallinn
 Phone: +3726962233 – Fax: +3726962237, E-mail: tarvo.roose@kki.ee
 V. Ruul, General Manager, Permare Ltd., Rütli14/Nikolai 7, 80011 Pärnu
 Phone: +372 44 70303 / 70301 – Fax: +372 44 70302 – E-mail: permare@hot.ee
 T. Saat, Director, Estonian Marine Institute, University of Tartu, 18b Viljandi Road, 11216, Tallinn
 Phone: +372 6281 570 - Fax: +372 6281 563 - E-mail: tsaat@sea.ee
 T. Sild, Rütli 4, 10130 Tallinn
 Phone: +372 6 996611 – Fax: +372 6 442889 – E-mail: tarmo.sild@heta.ee
 A. Sõna, Manager, Reyktal Ltd., Veerenni 39, 10138 Tallinn
 Phone: +372 6276 552 - Fax: +372 6276 555 - E-mail: arne@reyktal.ee
 T. Tamme, c/o Alvini Adroraadiburou, Roosikrantsi 2, 10119 Tallinn
 Phone: +372 6110810 - Fax: +372 6110811 - E-mail: toomas@alvinab.ee
 A. Tuvi, Senior Officer, Fishery Resources Dept., Ministry of the Environment, Ravala 8, 10143 Tallinn
 Phone: +372 6604 544 - Fax: +372 6604 599 - E-mail: aare.tuvi@ekm.envir.ee
 L. Vaarja, Counsellor, Ministry of Environment, Ravala 8, 10143 Tallinn
 Phone: +372 5043 002 - Fax: +372 6604 599 – E-mail: laurivaarja@hot.ee
 O. Ynvgason, Managing Director, Icelandic Export Center Ltd., Sidumuli 34, P. O. Box 1764, 121 Reykjavik, Iceland
 Phone: +354 588 2600 – Fax: +354 588 7610 – E-mail: ottar@iec.is

EUROPEAN UNION

Head of Delegation

J. Spencer, Head of Unit, International and Regional Arrangements, European Commission, Fisheries Directorate General, 200 Rue de la Loi/Wetstraat, B-1049 Brussels, Belgium
 Phone: +32 2 295 6858 - Fax: +32 2 295 5700 – E-mail: edward-john.spencer@cec.eu.int

Advisers

- S. Ekwall, Administrator, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
Phone: +32 2 299 6907 - Fax: +32 2 295 5700 - E-mail: Staffan.Ekwall@cec.eu.int
- C. LeVillain, European Commission, Directorate General for Fisheries, Arrangements internationaux et regionaux, Rue de la Loi 200, B-1049 Brussels, Belgium
Phone: +32 2 295 3195 – Fax: +32 2 295 5700 – E-mail: christophe.le-villain@cec.eu.int
- M. Newman, European Commission, Directorate General for Fisheries, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
Phone: +32 2 295 7449 – Fax: +32 2 296 2338 – E-mail: martin.newman@cec.eu.int
- L. H. Pedersen, Fisheries Inspector, European Commission, Directorate General for Fisheries, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
Phone: +32 2 295 0645 – Fax: +32 2 296 2338 – E-mail: lars.pedersen.@cec.eu.int
- P. Heller, European Commission, Rue de la Loi 200, B-1049 Brussels, Belgium
Phone: +32 2 295 6445 – Fax: +322 299 1046 – E-mail: per.heller@cec.eu.int
- D. Cross, Head of Section, Fisheries, EUROSTAT, European Commission, Jean Monnet Bldg, B.P. 2920, Luxembourg (G.D.)
Phone: +352 4301 37249 – Fax: +352 4301 37318 – E-mail: david.cross@cec.eu.int
- G. F. Kingston, Senior Adviser, Economic and Commercial Affairs, Delegation of the European Commission in Canada, 45 O’Connor Street, Suite 1900, Ottawa, Ontario, Canada K1P 1A4
Phone: +613 238 6464 – Fax: +613 238 5191 – E-mail: fred.kingston@delcan.cec.eu.int
- V. Pons Mateau, Council of the European Union, DG-BIII-Fisheries, Rue de la Loi 175, B-1048 Brussels, Belgium
Phone: +32 2 285 7217 - Fax: +32 2 285 6910 - E-mail: vicente.pons@consilium.eu.int
- S. Stevenson, European Parliament, ASP 8E-130, Rue Wiertz, Brussels, Belgium
Phone: +32 2 284 7710 – Fax: +32 2 284 9710
- D. Varela, European Parliament (Fisheries Committee), Brussels, Belgium
Phone: +32 2 284 5950 – Fax: +32 2 284 5950 – E-mail: dvarela@europarl.eu
- S. Feldthaus, Head of Section, Ministry of Food, Agriculture and Fisheries, Holbergsgade 2, 1057 Copenhagen, Denmark
Phone: +45 33 92 35 60 – Fax: +45 33 11 82 71 – E-mail: sfe@fvn.dk
- R. Akesson, Ministry for Agriculture and Fisheries, 10333 Stockholm, Sweden
Phone +46 08 405 1122 - Fax: +46 08 10 5061 - E-mail: rolf.akesson@agriculture.ministry.se
- Y. Becouarn, Direction des pêches maritimes et d l’aquaculture, Bureau de la ressource, de la réglementation et des affaires Internationales, Ministère de l’agriculture et de la pêche, 3, place de Fontenoy 75007 Paris
Phone: +330149558238 – Fax: +33 01 49558200/74 37–E-mail: yann.becouarn@agriculture.gouv.fr
- Mahé, J.-C., IFREMER, Station de Lorient, 8, Rue François Toullec, 56100 Lorient, France
Phone: +33 2 9787 3818 – Fax: +33 2 9787 3801 – E-mail: jcmahe@ifremer.fr
- H. Pott, Bundesministerium für Verbraucherschutz, Ernährung, und Landwirtschaft, Rochusstr. 7, 53123 Bonn, Germany
Phone: +49 228 529 4124 - Fax: +49 228 529 4410 – Email: Hermann.Pott@bmvvel.de
- E. Riediger, Doggerbank Seefischerei GmbH, Groenlandstrasse 1, 27572 Bremerhaven, Germany
Phone: +49 (0)471 9 265 00 – Fax: +49 (0)471 9 265 02 30
- M. Stein, Institut für Seefischerei, Palmaille 9, D-22767, Hamburg, Germany
Phone: +49 40 389 05174 – Fax: +49 40 38905 263 E-mail: stein.ish@bfa-fisch.de
- E. Monteiro, Director-General for Fisheries, Edificio Vasco da Gama, Rua General Gomes Araujo, 1399-006 Lisbon, Portugal
Phone: +351 21 391 4387 - Fax: +351 21 3957858 - E-mail: euricom@dg-psces.pt

- E. Batista, Direccao Geral das Pescas e Aquicultura, Edificio Vasco da Gama, Rua General Gomes de Araujo, 1399 Lisbon, Portugal
Phone: +351 21 391 4350 Fax: +351 21 3979790 E-mail: ebatista@dg-pescas.pt
- A. Avila de Melo, Inst. de Investigacao das Pescas e do Mar (IPIMAR), Av. de Brasilia, 1400 Lisbon, Portugal
Phone: +351 21 302 7000 – Fax: +351 21 301 5948 – E-mail: amelo@ipimar.pt
- R. Alpoim, Inst. de Investigacao das Pescas e do Mar (IPIMAR), Av. de Brasilia, 1400 Lisbon, Portugal
Phone: +351 21 302 7000 – Fax: +351 21 301 5948 – E-mail: ralpoim@ipimar.pt
- M. Mancebo, Subdireccion General de Organismos Multilaterales de Pesca, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 91 3476176 - Fax: +34 91 3476049 – E-mail: cmancebo@mapya.es
- C. Domínguez, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57-3°, 28006 Madrid, Spain
Phone: +34 913 476030 - Fax: +34 913 476032 - E-mail: cdominguez@mapya.es
- I. Escobar, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 913 476847 - Fax: +34 913 476049 - E-mail: iescobar@mapya.es
- A. Hermida Trastoy, Director General de Estructuras y Mercados de la Pesca, Conselleria de Pesca y Asuntos Maritimos Xunta de Galicia, Calle del Sar, 75, Santiago de Compostela 15702, A Coruna, Spain
Phone: + 34981546347 - Fax: +34981546288 – E-mail: andres.hermida.trastoy@xunta.es
- J. Del Hierro, Subdireccion General de Inspeccion Pesquera, Secretaria General de Pesca Maritima, c/Castellana 112, 5ª Plto, Madrid, Spain
Phone: +34 91 3471645 - Fax: +34 91 3471512 – E-mail: jdellhier@mapya.es
- P. Rueda Crespo Palma, Delegacion de Pesca, Edificio Administrativo del Arenal, Vigo 36002, Spain
Phone: +34 986 817139 – E-mail: paloma.rueda@xunta.es
- E. De Cardenas, Institute Espanol de Oceanografia, Avenida de Brasil 31, 28020 Madrid, Spain
Phone: +34 91 5974443 – Fax: +34 91 5974770 – E-mail: e.decardenas@md.ieo.es
- F. Gonzalez-Costas, Instituto Español de Oceanografia, Apto 1552, E-36280 Vigo (Pontevedra), Spain
Phone: +34 9 86 49 2111 – Fax: +34 9 86 49 2351 – E-mail: fernando.gonzalez@vi.ieo.es
- H. Murua, Fish, Resour. – AZTI Foundation, Herrera Kaia, Portualde z/g, 20110 Pasaia, Basque Country, Spain
Phone: + 34 9 43 00 48 00 – Fax: + 34 9 43 00 48 01 – E-mail: hmurua@pas.azti.es
- A. Vazquez, Instituto de Investigaciones Marinas, Eduardo Cabello 6, 36208 Vigo, Spain
Phone: +34 9 86 23 1930 – Fax: +34 9 86 29 2762 – E-mail: avazquez@iim.csic.es
- M. Rimmer, Sea Fisheries Conservation Div., Department for Environment, Food and Rural Affairs, Room 423b, Nobel House, 17 Smith Square, London SW1P 3JR
Phone: +44 (0)20 7238 6529 - Fax: +44 (0)20 7238 5721 - E-mail: mike.rimmer@defra.gsi.gov.uk
- P. Franca, Presidente, A.D.A.P.I. – Associacao Armadores das Pescas Industriais, Docapesca, Edificio Dos Armadores 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +213015020 - Fax: +213019438 - E-mail: adapi.pescas@mail.telepac.pt
- A. Meireles, Director, A.D.A.P.I.-Associacao dos Armadores das Pescas Industriais, Docapesca, Edificio dos Armadores, 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +351 213015020 – Fax: +351 213019438 – E-mail: adapi.pescas@mail.telepac.pt
- A. Paiao, Director, A.D.A.P.I.-Associacao dos Armadores das Pescas Industriais, Docapesca, Edificio dos Armadores, 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +351 213015020 – Fax: +351 213019438 – E-mail: adapi.pescas@mail.telepac.pt
- J. Tavera DaMota, Portugal
Phone: +351 234 365614 – Fax: +351 234 364090

- R. Gordejuela Aguilar, ANAVAR, Puerto Pesquero, Vigo, Spain
Phone: +34 986 433844 – Fax: +34 986 439218
- J. Oya Alvarez, San Francisco 57-10, 36202 Vigo-Pontevedra, Spain
Phone: +34 986 447484 – Fax: +34 986 439229 – E-mail: juanoya@oyaperez.es
- C. Andion, Grupo Oya Perez, Calle San Francisco 57-2°, 36202 Vigo, Galicia, Spain
Phone: +34 986 447 484 – Fax: +986 439 229 – E-mail: oyagroup@apdo.com
- E. Carramal, Director Financiero, Grupo Oya Perez, Calle San Francisco 57-2°, 36202 Vigo, Galicia, Spain
Phone: +34 986 447 484 – Fax: +986 439 229 – E-mail: ecarramal@oyaperez.es
- M. Liria Franch, Presidente, Federacion Espanola de Organizaciones Pesqueras (FEOPE),
C/Comandante Zorita, 12, Escalera 4ª - 1ºD, 28020 Madrid, Spain
Phone: +34 915 33 3884 – Fax: +34 915 34 3718 – E-mail: mliria@iies.es
- J. R. Fuertes Gamundi, Director Gerente, ANAMER-ANAVAR-AGARBA, Puerto Pesquero,
Apartado 1.078, 36200 Vigo, Spain
Phone: +34 986 433844 - Fax: +34 986 439218 – E-mail: soccoopa@aranzadi.es
- M. Iriondo, Director Gerente, Pesquera Laurak Bat S.A., Armadores de Buques de Pesca, Edificio
Consignatarios, 3ª Planta. Puerto Apdo. de correos, 88 20110 Pasajes, Spain
Phone: +34 943 354177 – Fax: +34 943 353993 – E-mail: langa99@teleline.es
- G. Mantecón, Director General, Transpesca, S.A., Plaza de Compostela, 17 - 5ºB, 36201, Edificio
Meridional, Vigo, Spain
Phone: +34 986 438466 – Fax: +34 986 225893
- R. Pombo, Director Gerente, Transpesca, S.A., Plaza de Compostela, 17 - 5ºB, 36201 Vigo, Spain
Phone: +34 986 443190 – Fax: +34 986 221485 – E-mail: transpes@infonegocio.com
- J. M. Oya Perez, Grupo Oya Perez, Calle San Francisco 57-2°, 36202 Vigo, Galicia, Spain
Phone: +34 986 447 484 – Fax: +986 439 229 – E-mail: oyagroup@apdo.com
- C. Real Rodriguez, Presidente de "ASPE", Vigo, Spain
Phone: +34 986 818190 – Fax: +34 986 818318 – E-mail: cesar.real@pescanova.es
- F. J. Rodríguez, Avda. de la Libertad 25-5°, San Sebastián, 20004 Spain
Phone: +34 943 430303 – Fax: +34 943 432211 – E-mail: fran@pescafria.com
- J. L. Meseguer Sanchez, Secretario General, ARBAC – Asociacion de empresas de pesca de bacalao,
especies afines y asociadas, Enrique Larreta, 10-3°, 28036 Madrid, Spain
Phone: +34 913 151965 – Fax: +34 913 152673

FRANCE (in respect of St. Pierre et Miquelon)

Head of Delegation

D. Silvestre, Chargé de Mission, Secrétariat Général de la mer, 16, boulevard Raspail, 75007 Paris
Phone: +53634153 – Fax: +53634178 – E-mail: daniel.silvestre@sgmer.premier-ministre.gouv.fr

Advisers

- S. Ausseil, Ministere de l'outre Mer, 27 rue Oudinet, 75007 Paris
Phone: +33 153692746 – E-mail: sarah.outre-mer.gouv.fr
- B. Detcheverry, Directeur General, Interpeche S.A., Société des Pêches de Archipel, Quai du Môle
Frigorifique, B.P.4249, 97500 Saint-Pierre et Miquelon
Phone: +508 413991 – Fax: +508 413838 / 419947 – E-mail: interpeche@wanadoo.fr
- P. Jaccachury, Conseil General de Saint Pierre et Miquelon, 35 rue de la Fauvette, 97500 Saint Pierre
et Miquelon
Phone: +508 410102 – Fax: +508 412299

ICELAND

Head of Delegation

T. Skarphedinnsson, Legal Adviser, Ministry of Fisheries, Skulagata 4, 150 Reykjavik
Phone: +354 560 9670 – Fax: +354 562 1853 - E-mail: thorir@hafro.is

Advisers

G. Geirsson, Commander, Icelandic Coast Guard, P. O. Box 7120, 127 Reykjavik
Phone: +354 545 2071 – Fax: +354 545 2040 – E-mail: gylfi@lhg.is

K. Ragnarsson, Chairman, Federation of Icelandic Fishing Vessel Owners, P. O. Box 893, 121 Reykjavik

Phone: +354 591 0300 - Fax: +354 591 0301 – E-mail: kristjan@liu.is

T. Sigurdsson, Marine Research Institute, Skulagata 4, 101 Reykjavik

Phone: +354 5520240 - Fax: +354 5623790 - E-mail: steini@hafro.is

U. Skúladóttir, Marine Research Institute, Skúlagata 4, Pósthólf Box 1390, 121 Reykjavik

Phone: +354 552 0240 – Fax: +354 562 3790 – E-mail: unnur@hafro.is

H. Steinarsson, The Icelandic Directorate of Fisheries, Ingilfsstraeti, 150 Reykjavik

Phone: +354 5697900 - Fax: +354 5697991 - E-mail: hostein@hafro.is

JAPAN

Head of Delegation

K. Iino, Ambassador of Japan, Embassy of Japan, 2nd Floor, Dominion House, G.P.O. Box 13045, Suva Fiji

Phone: +679 330 4633 – Fax: +679 330 2984

Advisers

T. Ichii, National Research Institute of Far Seas Fisheries, 5-7-1 Orido, Shimizu 424-8633

Phone: +81543 36 6056 – Fax: +81543 35 9642 – E-mail: ichii@fra.affrc.go.jp

Y. Sakamoto, Deputy Director, Far Seas Fisheries Div., Resources Management Dept., Fishery Agency, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8907

Phone: +81 3 3502 8111 (ext. 7237) / 3 3591 6582 - Fax: +81 3 3591 5824

T. Sato, Resources Management Dept., Fishery Agency, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100

Phone: +81 3 3591 6582 - Fax: +81 3 3591 5824

K. Suzuki, Assistant Director, Fishery Div., Economic Affairs Bureau, Ministry of Foreign Affairs, 2-11-1 Shibakoen, Minato-ku, Tokyo 105-8519

Phone: +81 3 6402 2234 – Fax: +81 3 6402 2233 – E-mail: keiko.suzuki@mofa.go.jp

N. Takagi, Director, Executive Secretary, Japan Deep Sea Trawlers Association, NK-Bldg., 6F Kanda Ogawa-cho, Chiyoda-ku, Tokyo 101-0052

Phone: +81 33 291 8508 – Fax: + 81 33 233 3267 – E-mail: jdsta-takagi@msg.biglobe.ne.jp

REPUBLIC OF KOREA

Head of Delegation

Oh Choong-Shin, Consul de Pesca, Agencia Consular de la Republica de Korea, Luis Doreste Silva No. 60-1, Las Palmas de G.C., Spain

Phone: +34 928 23 0499 – Fax: +34 928 24 3881 – E-mail: csoh49@hanmail.net

LATVIA**Head of Delegation**

N. Riekstins, Director, National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums,
LV-1010 Riga
Phone: +371 732 3877 - Fax: +371 733 4892 - E-mail: fish@latnet.lv

Alternate

R. Derkacs, Head of International Agreements and Legal Division, National Board of Fisheries,
Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
Phone: +371 732 3877 - Fax: +371 733 4892 - E-mail: fish@latnet.lv

Advisers

U. Rinkis, Senior Officer, Fisheries and Fish Resources Div., National Board of Fisheries, Ministry
of Agriculture, 2, Republikas laukums, LV-1010 Riga
Phone: +371 733 4478 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv
D. Kalinovs, Skaga Ltd., Brivibas Gatve 215A-46, LV-1039 Riga
Phone: +371 754 2471 – Fax: +371 754 2471 – E-mail: skaga@latnet.lv

LITHUANIA**Head of Delegation**

V. Vaitiekunas, Director, Fisheries Dept. under the Ministry of Agriculture, 19 Gedimino av.,
Vilnius 2025
Phone: +370 02 391174 – Fax: 37002 391176 – E-mail: vytautasv@zum.lt

Alternate

A. Rusakevicius, Fisheries Department under the Ministry of Agriculture, 19 Gedimino av., 2025
Vilnius
Phone: +370 2 391183 - Fax: +370 2 391176 - E-mail: algirdasr@zum.lt

Advisers

A. Halldorsson, District Court Attorney at Law, Logmenn, Skipholt 50 C, 105 Reykjavik
Phone: +354 561 8200 – Fax: +354 561 8201 – E-mail: arnor.halldorsson@simnet.is
B. Kristanavicius, General Director UAB "Atlantic Fishery Company", Jono 12, LT-5800 Klaipeda
Phone: +370 6 493105 – Fax: +370 6 311552 – E-mail: afp@takas.lt
V. Pertraitiene, Director of Finances, JSC "Zukme", M. Gimbutienes Str. 35, 3014 Kaunas
Phone: +370 7 370656 – Fax: +370 7 370664 – E-mail: zukme@ijo.net
V. Ramanaukas, S Daukanto 9, Klaipeda, LT-5800
Phone: +370 8 742045 – Fax: +370 6 312393 – E-mail: vramanau@takas.lt
L. Siksniete, Attorney at Law, LRF Juridska Byran, Rotuses a. 11, LT-3000 Kaunas
Phone: +370 37 226204 – Fax: +370 37 226204 – E-mail: lina@lrf.lt
S. Staskus, Director, JSC "Zukme", M. Gimbutienes Str. 35, 3014 Kaunas
Phone: 370 7 370656 – Fax: +370 7 370664 – E-mail: zukme@ijo.net

NORWAY

Head of Delegation

T. Lobach, Senior Legal Adviser, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
Phone: +47 55 23 80 00 Fax: +47 55 23 80 90 E-mail: terje.lobach@fiskeridir.dep.no

Alternate

S.-A. Johnsen, Head of Section, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
Phone: +47 55 23 80 00 – Fax: +47 55 23 80 90 – E-mail: postmottak@fiskeridir.dep.no

Advisers

W. Barstad, Norwegian Fishing Vessel Owners Association, P.O. Box 67 Sentrum, 6001 Aalesund
Phone: +47 70 10 14 60 - Fax: +47 70 10 14 80 - E-mail: webjorn@fiskebatreder.no
T. Rodrigues Eusébio, Assistant Director General, Ministry of Foreign Affairs, P. O. Box 8114 Dep.,
N-0032 Oslo
Phone: +47 22 24 36 00 – Fax: +47 22 24 95 80 – E-mail: tbe@mfa.no
H. M. Johansen, Project Coordinator, Norwegian Ministry of Fisheries, P. O. Box 8118 Dep., 0032
Oslo
Phone: +47 22 24 64 44 – Fax: +47 22 24 95 85 – E-mail: heidi.johansen@fid.dep.no

POLAND

Head of Delegation

L. Dybiec, Counsellor to the Minister, Ministry of Agriculture and Rural Development, Fisheries
Department, Wspólna 30, 00-930 Warsaw
Phone: +48 22 628 9684 – Fax: +48 22 623 2204 – E-mail: leszek.dybiec@minrol.gov.pl

RUSSIA

Head of Delegation

A. N. Makoedov, Deputy Chairman, State Committee for Fisheries of the Russian Federation, 12
Rozhdestvensky Boul., Moscow 103031
Phone: +7 095 928 5527 - Fax: +7095 928 5527

Representative

A. N. Makoedov (see address above)

Advisers

V. E. Agalakov, “MURMANRYBVOD”, Komintern 5 str., 183672 Murmansk
Phone: +7 8152 450268 – Fax: +7 815 245 6028 – E-mail: mrv@an.ru
V. K. Babayan, Head of Laboratory for System Analysis of Fishery Resources, VNIRO, 17, V.
Krasnoselskaya, Moscow 107140
Phone: +70 95 264 6983 – Fax: +70 95 264 9187 – E-mail: vbabayan@vniro.ru

- K. V. Gorchinsky, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich St., Murmansk
Phone: + 7 8152 47 2532 – Fax: + 7 8152 47 3331 – E-mail: inter@pinro.murmansk.ru
- U. Kim, State Committee for Fisheries of the Russian Federation, 12 Rozhdestvensky Boul., Moscow 103031
Phone: +7095 928 2873 – Fax: +7095 921 3463 – E-mail: kim@fishcom.ru
- V. M. Mishkin, General Director, Scientific and Technical Firm "Complex Systems", 5, Kominterny str., 183038, Murmansk
Phone: +78152 476080 / + 7095 9167261 - Fax: +7 8152476083 – ntf@coms.ru
- A. Okhanov, Representative of the Russian Federation in Canada on Fisheries, 47 Oceanview Drive, Bedford, Nova Scotia Canada B4A 4C4
Phone: +902 832 9225 – Fax: +902 832 9608 – E-mail: rusfish@ns.sympatico.ca
- B. F. Prischeva, Head of Department, "MURMANRYBVOD", Kominterny 5 str., 183672 Murmansk
Phone: +7 815 2 45 86 78 – Fax: +7 815 2 45 86 78 – E-mail: mrsv@an.ru
- V. A. Rikhter, Atlantic Scientific Research Institute of Marine Fisheries and Oceanography (AtlantNIRO), 5 Dmitry Donskoy Street, Kaliningrad 23600
Phone: +70 112 22 5547 – Fax: +70 112 21 9997 – E-mail: west@atlant.baltnet.ru
- A. Romanov, Director, Professor, All-Russia Research and Design Institute for Economics, Information and Automated Management Systems of Fisheries (VNIERKH), 4/2, B. Spasoglinishchevskii per., Moscow, 101990
Phone: +7095 928 00 88 – Fax: +7095 925 47 31 – E-mail: romanov@vnierkh.ru
- E. N. Samoylova, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich St., Murmansk
Phone: + 7 8152 47 2532 – Fax: + 7 8152 47 3331 – E-mail: elena@pinro.murmansk.ru
- V. Shibanov, Research Director, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich St., Murmansk 183763
Phone: +7 8152 472614 – Fax: +47 789 10 518 – E-mail: inter@pinro.murmansk.ru
- V. N. Solodovnik, Deputy Chief, Dept. of International, Legal and Biological Foundations in Fisheries, VNIRO, 17, V. Krasnoselskaya, Moscow 107140
Phone: +7095 264 9143 – Fax: +7095 264 9021 – E-mail: inter@vniro.ru

UKRAINE

Head of Delegation

- V. B. Chernik, Deputy Chairman, State Department for Fisheries of Ukraine, 82A Turgenivska str., Kiev, 04050
Phone: +38044 226 2405 - Fax: +380 44 226 2405 – E-mail: nauka@i.kiev.ua

Advisers

- V. Litvinov, Senior Expert, Div. for International Fishing Policy, State Department for Fisheries of Ukraine, 82A Turgenivska str., Kiev 252053
Phone: +38044 246 8984 - Fax: +38044 246 8984 – E-mail: nauka@i.kiev.ua
- L. Petsyk, General Manager, Black Sea Fishing Company, 12, Safronova Street, 99003 Sevastopol
Phone: +38 0692 577277 – Fax: +38 0692 451905 – E-mail: bsc@mail.souz.sebastopol.ua

UNITED STATES OF AMERICA

Head of Delegation

J. Dunnigan, Director, Office of Sustainable Fisheries, U.S. Dept. of Commerce, NOAA, National Marine Fisheries Service, 1315 East West Highway, Silver Spring, MD 20910
Phone: +301 713 2334 - Fax: +301 713 0596 - E-mail: jack.dunnigan@noaa.gov

Representatives

J. Dunnigan (see address above)

J. Pike, Director, Government Relations, Scher and Blackwell, Suite 900, 1850 M Street NW, Washington, DC 20036

Phone: +202 463 2511 - Fax: +202 463 4950 - E-mail: jpik@sherblackwell.com

B. D. Stevenson, Seller's Representative, 2 Portland Fish Pier, Suite 109, Portland, ME 04101

Phone: +202 775 5450 - Fax: +207 773 9096 - E-mail: bds02@sprynet.com

Advisers

J. Anderson, Fisheries Biologist, Protected Resources Div., Northeast Region, National Marine Fisheries Service, U.S. Dept. of Commerce, NOAA, 1 Blackburn Dr., Gloucester, MA 01930

Phone: +978 281 9226 - Fax: 978-281-9394 - E-mail: jennifer.anderson@noaa.gov

S. Correia, Massachusetts Division of Marine Fisheries, 50A Portside Drive, Pocasset, MA 02559

Phone: +508 563 1779 Ext. 111 - Fax: +508 563 5482 - E-mail: steven.correia@state.ma.us

S. Fordham, The Ocean Conservancy, Suite 600, 1725 DeSales St., NW, Washington, D.C. 20036

Phone: +202 857 3273 - Fax: +202 872 0619 - E-mail: sonja@oceanconservancy.org

G. S. Martin, Attorney, Office of the General Counsel, Northeast Region, National Oceanic and Atmospheric Administration, U.S. Dept. of Commerce, 1 Blackburn Dr., Gloucester, MA 01930

Phone: +1 978 281 9242 - Fax: +1 978 281 9389 - E-mail: gene.s.martin@noaa.gov

P. F. Martin, Lieutenant Commander, Coast Guard Liaison Officer, Office of Marine Conservation (Rm 5806), U.S. Department of State, 2201 C Street NW, Washington, D.C. 20520

Phone: +202 647 3177 - Fax: +202 736 7350 - E-mail: pmartin@comdt.uscg.mil

R. Mayo, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543

Phone: +508 495 2310 - Fax: +508 495 2393 - E-mail: ralph.mayo@noaa.gov

P. Moran, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Hwy., Silver Spring, MD 20910

Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: pat.moran@noaa.gov

W. Quinby, Director, Mayflower Shipping Ltd., 655 Summer Street, Boston, MA 02210

Phone: +843 577 0560 - Fax: +843 577 6644 - E-mail: mayflower@mindspring.com

F. M. Serchuk, Chief, Resource Evaluation and Assessment Division, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543-1097

Phone: +508 495 2245 - Fax: +508 495 2258 - E-mail: fred.serchuk@noaa.gov

D. E. Swanson, Chief, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Highway, Silver Spring, MD 20910

Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: dean.swanson@noaa.gov

OBSERVER

D. J. Douman, Senior Fishery Liaison Officer, Food and Agriculture Organization of the United Nations (FAO), International Institutions and Liaison Service, Fishery Policy and Planning Division, Fisheries Dept. Viale delle Terme di Caracalla, Room F-409, 00100 Rome, Italy

Phone: +39 0657 056752 - Fax: +39 0657 056500 - E-mail: david.douman@fao.org

SECRETARIAT

L. I. Chepel, Executive Secretary
T. Amaratunga, Assistant Executive Secretary
F. D. Keating, Administrative Assistant
B. J. Cruikshank, Senior Secretary
S. Goodick, Accounting Officer
G. Moulton, Statistical/Conservation Measures Officer
D. Auby, Word Processing Secretary
F. E. Perry, Desktop Publishing/Documents Clerk
R. Myers, Graphic Arts/Printing Technician

Annex 2. Opening Statement by the Representative of Canada
(P. S. Chamut)

- Mr. Chairman, distinguished Representatives, Ladies and Gentlemen;
- It is indeed a pleasure to participate at this twenty-fourth annual meeting of NAFO in the magnificent surroundings of Santiago de Compostela. This is a city that has both a richness of history and hospitality, and on behalf of the entire Canadian delegation, I wish to express how delighted we are to be here.
- I would also thank the Spanish authorities for hosting this meeting, and for their warm and generous hospitality.
- As we begin today, I want to reflect on the importance of this meeting for the Canadian delegation, and for this Organization.
- The past decade has been a difficult one for Canadian fishermen, and fishing communities in Atlantic Canada. So too has it presented very substantial challenges to NAFO.
- Within Canadian fisheries, we have confronted the collapse of groundfish stocks, closures of fisheries and processing plants and the economic devastation of communities sustained by the fishery for hundreds of years.
- We have learned the hard way about the need for conservation and sustainable fishing practices.
- Although it has been difficult and painful, we have transformed our fishing industry.
- At the same time, it has also been difficult times within NAFO. We have had to confront the harsh reality of moratoria, and the effect the closures have had on fishermen from distant communities that had also enjoyed the benefits of the abundant stocks on the Grand Banks.
- We have recognized the need for NAFO to invest in improved conservation, and stock rebuilding. Progress has been made, and as an organization, we can take credit for what has been done.
- Although we have come a long way over the past 15 years, recent information shows that progress is being eroded. We cannot let past progress distract us from tackling the difficult challenges that remain.
- We have a long and difficult road to travel to ensure the rebuilding of once plentiful stocks. Many stocks continue to be at historically low levels, despite the fishing moratoria. Progress to stock recovery is very slow, and fragile. Achieving recovery depends upon the actions taken around this table, to adopt the right conservation measures, and to ensure they are adhered to.
- It is clear to us in Canada that the well-being of groundfish stocks – and the economic future of our fishing communities – depends upon the decisions made here.

- It is for this reason that NAFO is so important to the people who are represented by the Canadian delegation. In the absence of the commitment of all Contracting Parties to stock rebuilding and sustainable fishing practices, the future of our fishing industry is bleak. Our fishermen have nowhere else to go. Their future is directly and uniquely dependent on the success of NAFO in meeting its responsibility.
- It is for this reason that the outcome of this meeting is being watched so closely in Newfoundland, and elsewhere in Canada.
- The level of scrutiny reflects not only the importance of the outcome to domestic interests. It also reflects an increasing skepticism that NAFO can successfully address the challenges it must face.
- This skepticism stems from the increasing trends in non-compliance with NAFO conservation measures. It is also validated by the observations in many Scientific Council reports about bycatch of species under moratoria, and the harvest of juvenile fish.
- This growing dissatisfaction with NAFO's performance is being expressed politically in the form of demands for strong action by government to assert Canadian interests in the protection of groundfish stocks.
- For example, a report to our Parliament by the Standing Committee on Fisheries and Oceans advocates that Canada withdraw from NAFO, and institute custodial management of fish resources.
- At this meeting, this organization will be judged by actions we take to demonstrate that NAFO can protect and rebuild stocks, and manage sustainably.
- With this as backdrop, I want to be clear about the Government of Canada's objective for this session.
- Our intent, and commitment, is to work with all Parties to achieve an objective which I believe is shared – to find ways to make NAFO more effective.
- We believe this objective can be advanced by showing that we are rectifying problems of compliance; that all Contracting Parties are following up to deter non-compliance; that we are adopting more effective conservation measures; and by demonstrating that science is the basis for setting TACs.
- Making NAFO more effective is a collective challenge. We believe that this organization can find the will to continue to strengthen its performance, and to serve as a model for other regional fisheries management organizations to emulate.
- Canada is looking forward to a constructive meeting – one which will advance the interests of this organization and its members, and provide a brighter future for all who depend upon the fishing resources under our stewardship.
- Thank you.

Annex 3. Opening Statement by the Representative of the European Union
(Mr. J. Spencer)

Mr. Chairman,
Distinguished Delegates,

Firstly, as a European-Celtic origin it is for me a particular pleasure to be in this part of Europe, which has historical strong ties with coastal communities in Europe and particular ties between Galicia and other parts of Europe, such as Ireland and Great Britain.

It is a great pleasure for me on a personal basis to find myself in Galicia and also in the part of Europe along with our cousins to the south in Portugal, which were art the very foundation and originators of fishing in the Northwest Atlantic so many centuries ago. And that tradition and that commitment to continue sustainable fishery is a driving force behind our involvement in NAFO. We would like to thank the Spanish Government and regional authorities for the facilities they put at our disposal, which would facilitate our constructive dialogue between all parties around the table.

Mr. Chairman, I shall be rather brief with my presentation. I think it rather hinges around five-six words. Those key words are beginning with the letter "C". First of all, our objective, and I hope this objective is shared around the table that we are seeking to arrive at the *consensus* on the range of issues confronting us at this Annual Meeting. We do not see any distinctions between this meeting and any other previous meetings of NAFO. We are firmly committed to the NAFO process that has been at the beginning and we remain so. We think that this is only the way forward to achieve the sustainability of fisheries that has truly strengthened the international cooperation. So this is the first key word – consensus.

The second key word for the European Community is the word *compliance*. It is essential that we have more involvement of parties around the table in the compliance effort, and, I say that in regard of the current observer scheme, which is under review, but also to inspection presence. In our view, the rights to fish go hand in hand with the responsibility to ensure the ability to control vessels. We have been consistently present in the NAFO Regulatory Area many years now with a permanent control presence, and the investments in terms of manpower, in terms of material and in terms of costs have been considerable. But it is towards the basic obligations we have vis-à-vis of our involvement in the Area. And we would hope that in the course of this week, we would hear echoed from the other parties their willingness not simply looking for quotas and for different technical conditions, but their wish to cooperate in involving themselves in the compliance effort. We will have an opportunity to put on the table of the Fisheries Commission a report that we have drawn-up in very non-technical language on our findings in relation to compliance in the last years. It would give a picture, which results from the inspection on all vessels, and I say that ... "on all vessels" ... with very much emphasis since our vessels, without question, are the most inspected and controlled vessels in the NAFO Area and have been for years.

The third "C" is the term *consistency*. We have to be careful that when we approach different agreed measures and management proposals that we have to be consistent in the outlook. There have been several problems in NAFO with the closure of many of the key historical fisheries. And we have the responsibility to ensure that those fisheries recover. We have taken certain measures of technical measure to address issues and have to be extremely vigilant on the by-catch issue. But we equally have to avoid what I would term a unilateral action whereby one NAFO party departs from the NAFO approach in relation to the management of the stocks. And I am talking about 2J3KL cod stock, where it is clear from the international scientific advice available to us that there should be a closure, but, unfortunately, that closure has been ignored on a number of occasions in

recent time. And this is an issue that we would come back to in detail at the Fisheries Commission discussions.

Cooperation, Mr. Chairman, is the key word. Without the cooperation of the parties around the table, NAFO cannot achieve its objectives. We think that NAFO has made a substantial contribution to promote international cooperation, but we cannot be complacent and we are not complacent. And, therefore, we would trust that different issues that we address this week, be those of a management or technical nature, be addressed in a straight-forward and constructive manner so that we improve what we have already and we build upon it.

And finally, Mr. Chairman, the letter "C" and there I would talk about XXI Century. We have now moved into a new century and we have new responsibility, and I trust we will be wise in the selection of our Executive Secretary so that he or she would be able to bring us forward in a constructive and dynamic way in order to improve what is the very foundation of this organization, the NAFO Secretariat.

Mr. Chairman, I will close my comments. There are many issues that in five "Cs" I have mentioned that will underpin our involvement in this NAFO Annual Meeting.

Thank-you Mr. Chairman.

Annex 4. Opening Statement by the Representative of the Republic of Korea
(Mr. Oh Choong-Shin)

Mr. Chairman, Distinguished Delegates, Ladies and Gentlemen.

It is a great honor for me to take part in the 24th Annual Meeting of NAFO as the representative of the Republic of Korea in the historic city, Santiago de Compostela.

I would like to give my thanks to the Secretariat of NAFO for the preparation of the Meeting. And my thanks also go to the Spanish Government for hosting this Conference.

The Republic of Korea, as a responsible fishing Country, has been actively making all efforts in establishing international fishery regimes.

In this connection, my country will also continue to cooperate with the member countries of NAFO for the conservation and management of fishery resources. Even though the Republic of Korea became a member country of NAFO in December, 1993 in order to join the activities to conserve and manage fishery resources, the fishing allocated to Korea has not reached the level which even one vessel can harvest since Korea's entrance to NAFO and moreover, the allocated quota has been on the decrease.

Korea has contributed to the development of NAFO by sharing its contribution with sincerity. All member countries of NAFO should keep in mind that according to Article 11 of the UN Agreement on the Conservation and Management of Straddling Fish Stocks and Highly Migratory Fish Stocks, the fishing quota must be allocated properly to the member country which has cooperated in conserving and managing fishery resources.

Korea has suspended catching in the NAFO Regulatory Area at the same time with its entrance to the Organization, because the profitable fishing quota was not secured.

If the above situation continues to Korea, the Korean government will lose the justifiable reason for the continuous participation to NAFO.

Therefore, the Korean government is making a demand for the favorable allotment of the fishing quota. Korea has also continued to improve the present quota system of NAFO, because the current quota allocation devised by NAFO is somewhat outdated and it is no longer applicable to the present reality.

And the fishing quota should be allocated fairly on the basis of historical fishing activities and efforts for the conservation and management among member countries.

The member countries which have operated in the NAFO Regulatory Area should put themselves in other's place.

I would like to touch roughly the observer program. The observer program is necessary and helpful to conserve and manage fishery resources. However, because the main role of observers is to collect scientific data about fisheries, the number of observers should be at a minimum to achieve their purpose without disturbing the fishing activities.

Even though a little amount of the fishing quota is given to Korea, Korean vessels cannot operate fishing activities owing to lack of the profitable quota.

Therefore, in order to utilize effectively the allocated quota the transfer of the fishing quota should be permitted between the member countries of NAFO.

I think this Organization has met two big problems. One is the recovery of fishery resources in the NAFO Convention Area, and the other is the proper allocation of the fishing quota among the Contracting Parties.

I hope these two subjects will be discussed fully and this Meeting will get a successful result.

Thank-you!

Annex 5. Opening Statement by the Representative of Ukraine
(Mr. V. Chernik)

Dear Mr. President,

Dear Colleagues,

We all come to this meeting on the sacred Land of Galicia with our best hopes to discuss and successfully resolve the issues of the Agenda of the 24th Annual Meeting. And even if we could not resolve all of them, we would be able to develop and agree on the follow-up and new measures of the conservation and utilization of fish resources of the NAFO area in most effective way. We have to find such methods of resources allocation that those should be fair, transparent and understandable. Today, we would recognize the insufficiency of the approach of the resources distribution, which would be based only on the achieved basis.

Such an approach would allow sometimes to artificially expedite fishery and catches even exaggerate the results for the sake of obtaining a larger quota(s). In such situations, there would be an undesirable intent to "swap/trade" quotas not only for necessity, but as a commercial trade.

The Ukrainian Delegation is thankful to the host Contracting Party and the Galician Government for the excellent organization of this Annual Meeting in Santiago de Compostela. We hope that the selection of a new Executive Secretary of NAFO and other decisions of this meeting would reflect in our memories with satisfaction for those achievements.

The Ukrainian Delegation wishes to all participants of this meeting very fruitful and productive work!

Thank-you!

**Annex 6. Opening Statement by the Representative of the
United States of America (Mr. J. H. Dunnigan)**

Mr. Chairman, Distinguished Delegates, Ladies and Gentlemen:

It is a great pleasure for the United States to participate in the 24th annual meeting of this fine organization. It is a personal honor for me to be here for the first time as the head of my country's delegation. We very much look forward to this week as an opportunity to strengthen an international organization that is already recognized as a leader in the conservation and management of ocean fisheries.

In the United States we are committed to an aggressive program of conservation and management of our fisheries, one that focuses on securing the benefits of these resources over the long term to our fishermen, their families, and all who depend on our fisheries. We all know how difficult this can be. We all recognize the hardships that are being faced by our coastal communities. Our New England and Mid-Atlantic fishermen, for example, are facing increasingly difficult limitations as we seek to rebuild groundfish stocks to a point where they can produce the maximum sustainable yield. Many of these fishermen had fathers and grandfathers who relied on fisheries that are now regulated by NAFO. Our government, in collaboration with our industry, struggles to find the best solution to the challenges of conservation. And yet we do it because we have proven to ourselves that conservation works. We have seen it happen in our fisheries. The great lesson of our experience over the past decade has been that fishery resources can recover if government and industry and other organizations with an interest in our fisheries work together in a program of prudent and precautionary management. And we are convinced that along with our colleagues in NAFO, we can all find the same, common success in the fisheries managed under the NAFO umbrella.

All of this begins with sound science, and a commitment to applying it wisely. The NAFO Scientific Council has an outstanding record of providing the advice to the fishery managers in NAFO. They have been creative and supportive of our needs as managers, understanding the difficulties that we all face. The United States is proud to be a strong contributor and supporter of NAFO science, and are committed to its application to our common management problems.

Sound conservation and management continues with the development and application of an effective system of governance. In this area we look forward to working with our colleagues in NAFO to continue to strengthen the conservation and management program to which we are all committed. We believe that NAFO has the opportunity to strengthen its approach toward monitoring and control in a manner that ensures compliance with its allowable catch and control measures. And we believe that NAFO has the opportunity to continue to make progress in the development of an approach that will ensure in the future that the conservation and management measures that we apply are wise, cautionary, and aim to secure the greatest long-term benefits from our resources.

We must also continue to strive for a management program that is fair and equitable to all. The United States remains committed to developing an approach to allocations that will allow all members to share in the benefits of conservation as our NAFO stocks recover. We continue to believe that the NAFO conservation program will result in greater opportunities over the long term for all fishermen, including our own. We very much look forward this week to working with our colleagues to reinvigorate our efforts to develop an long-term approach to making allocations decisions.

Mr. Chairman, NAFO also has the opportunity this week to commit itself to effective and vigorous staff leadership. The United States takes note of the excellent efforts of the NAFO Executive Secretary over the past ten years, and we wish graciously to acknowledge and thank Dr. Chepel for his outstanding service. Our belief that this fine organization continues to deserve strong staff leadership is a symbol of our commitment to NAFO. We face exciting times ahead. We face difficult times ahead. It will be essential that we be guided by a staff and an Executive Secretary who are experienced, who understand the ways in which countries work together toward common purpose, and who are committed to the mutual success of all. Given our recognition of the long-term nature of the commitments we make and the benefits that we expect to receive, we believe that this is one of the most significant decisions we have to make this week. And we look forward to working with our colleagues around this table to ensure the ongoing success of NAFO.

And finally, Mr. Chairman, let us take note of the historic and cultural significance of the location of this meeting. One cannot help but be impressed by the beauty of our surroundings and by the warmth of friendship of the people of this region. Coming from a country and a culture that is only a few hundred years old, I am reminded of how much we have to learn. In our country we were struck by horrible tragedy only a year ago last week. The pain of that time is still fresh in our minds, and we are grateful for the expressions of concern and support provided by our colleagues at NAFO. The resiliency and the dedication of a people over many millennia, as we witness in Spain and in Galicia, are a witness from which we can learn much. We thank the government of Spain and of Galicia for graciously hosting this most important meeting.

Thank you Mr. Chairman.

Annex 7. Agenda

I. Opening Procedure

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

II. Supervision and Coordination of the Organizational, Administrative and Other Internal Affairs

6. Review of Membership
 - a) General Council
 - b) Fisheries Commission
 - c) Reports from Contracting Parties on their communication with Bulgaria
7. Administrative Report
8. Selection of the Executive Secretary

III. Coordination of External Relations

9. Communication with the United Nations General Assembly (Resolution 55/8, October 30, 2000)
10. FAO International Plans of Action to prevent, deter and eliminate illegal, unreported and unregulated fishing
11. NAFO cooperation with ICES
 - a) Participation in North Atlantic Regional Fisheries Management Organizations (NARFMO) Meetings

IV. Fishing Activities in the Regulatory Area Adverse to the Objectives of the NAFO Convention

12. Consideration of non-Contracting Party activity in the NAFO Regulatory Area and agreement on the task of STACFAC at the current meeting
13. Report of STACFAC at the Annual Meeting and decisions on actions
14. Consideration of the status of the Working Group on Dispute Settlement Procedures (DSP)

V. Finance

15. Report of STACFAD at the Annual Meeting
16. Adoption of the Budget and STACFAD recommendations for 2003

VI. Closing Procedure

17. Time and Place of Next Annual Meeting
18. Other Business
19. Press Release
20. Adjournment

Annex 8. Press Release

1. The 24th Annual Meeting of the Northwest Atlantic Fisheries Organization (NAFO) was held in Santiago de Compostela, Galicia, Spain, during 16-20 September 2002, under the chairmanship of Enrique Oltuski (Cuba), President of NAFO. The NAFO constituent bodies - General Council, Fisheries Commission and Scientific Council convened their sessions at the Galicia Congress and Exhibition Centre.
2. The meeting was attended by 200 delegates from seventeen Contracting Parties - Canada, Bulgaria, Cuba, Denmark (in respect of Faroe Islands and Greenland), Estonia, European Union, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Republic of Korea, Latvia, Lithuania, Norway, Poland, Russia, Ukraine and United States of America.
3. Prior to the Annual Meeting, the following NAFO meetings occurred during 2001: (1) Special Meetings (General Council and Fisheries Commission) in a framework of the 23rd Annual Meeting (Helsingør, Denmark, Jan. 29 – Feb. 01); (2) Standing Committee on International Control (Copenhagen, Denmark, May 6-9); (3) Working Group of Technical Experts on Precautionary Approach (Dartmouth, N.S., Canada, June 20-21); (4) Working Group on Management of Oceanic Redfish (Dartmouth, N.S., Canada, June 24-25); (5) Scientific Council Regular Meeting (Dartmouth, N.S., Canada, June 6-20); (6) STACTIC Drafting Group to Overhaul Conservation and Enforcement Measures (Ottawa, Canada, July 9-11).
4. The Scientific Council, under the chairmanship of Ralph Mayo (USA), reviewed and assessed the status of fish stocks in the NAFO Area. The scientific advice and recommendations from the Scientific Council were presented to the Fisheries Commission. The Scientific Council agreed that major groundfish stocks still remain at low abundance and, therefore, should not be recommended for directed fisheries during 2003. The biomass and fishery potentials of Yellowtail flounder in Div. 3LNO were assessed as stable with the possibility of a sustainable fishery. The Scientific Council Symposium on Elasmobranch Fisheries (held in advance of Annual Meeting) brought new ideas on shark management, harvest strategies and stock assessment.
5. The Fisheries Commission, under the chairmanship of Dean Swanson (USA), considered the advice of the Scientific Council in relation to the conservation of fish stocks in the Regulatory Area and agreed to conservation and enforcement measures.

The Fisheries Commission agreed to continue moratoria ("no directed fishery") in 2003 on the following stocks: Cod in Divisions 3M, 3L (that portion within the Regulatory Area) and 3NO, Redfish in Div. 3LN, American plaice in Divisions 3M and 3LNO, Witch flounder in Div. 3NO and 3L (that portion within the Regulatory Area); and Capelin in Div. 3NO. The Quota Table for 2003 was adopted (Attachment 1).

With respect to management measures for cod in Div. 2J3KL, Contracting Parties other than Canada expressed their serious concern that management measures for this stock may not be consistent throughout its range in the Convention Area in the year 2002.

The Fisheries Commission adopted new rules for assessing the compliance of the NAFO Contracting Parties with the Conservation and Enforcement Measures in the NAFO Area.

The Fisheries Commission agreed on continuing restrictive conservation measures in shrimp fishery on Flemish Cap and Division 3L by employing selective sorting grates for by-catch avoidance and 40mm mesh size. The fishing days in Div. 3M should be 90% of an earlier

- benchmark historical record. The Fisheries Commission also agreed on specific rules for controlling and monitoring by-catches and minimizing incidental catches in directed fisheries and modifications to the Automated Hail/Vessel Monitoring System for continuous effective monitoring of fishing activities in the Regulatory Area.
6. The General Council, under the chairmanship of Enrique Oltuski (Cuba), deliberated several substantive issues regarding internal and external NAFO policy and finance on the following terms:
- Standing Committee on non-Contracting Party Fishing Activity in the Regulatory Area (STACFAC) shall continue the study for application of the FAO International Plans of Action on Illegal, Unregulated and Unreported Fishing (IUU) to NAFO needs;
 - Concern was expressed with regards to non-Contracting Party fishing activity in the NAFO Regulatory Area in the second half of 2002, and STACFAC was instructed to review and monitor this situation.
 - The President of NAFO will contact the non-Contracting Parties (Belize and Cyprus) whose flag vessels were involved.
 - The General Council considered the re-establishment of the voting rights of Bulgaria based on Bulgaria's commitment to re-pay its outstanding contributions.
7. The General Council of NAFO elected a new Executive Secretary – Johanne Fischer (European Union), who will replace the outgoing Executive Secretary – Leonard Chepel effective January 01, 2003.
8. The following elections of NAFO officers took place:
- | | |
|---|---|
| Chairman of Standing Committee on Fishing Activities of non-Contracting Parties in the Regulatory Area (STACFAC) | - D. Silvestre (France in respect of St. Pierre et Miquelon) (re-elected) |
| Vice-Chairman of Standing Committee on Fishing Activities of non-Contracting Parties in the Regulatory Area (STACFAC) | - N. Bouffard (Canada) (re-elected) |

NAFO General Council
20 September 2002

NAFO Secretariat
Dartmouth, N.S.
Canada

(REVISED January 24, 2003)

QUOTA TABLE. Total allowable catches (TACs) and quotas (metric tons) for 2003 of particular stocks in Subareas 1-4 of the NAFO Convention Area. The values listed include quantities to be taken both inside and outside the 200-mile fishing zone, where applicable.

| Contracting Party | Cod | | Redfish | | American plaice | | Yellowtail | Witch | Capelin | G. halibut | Squid (<i>Illex</i>) ^{2,3} | Shrimp |
|--|----------------|----------|---------------------|----------|-----------------|-----------|---------------------|----------|----------|--------------------|---------------------------------------|---------|
| | Div. 3M | Div. 3NO | Div. 3M | Div. 3LN | Div. 3M | Div. 3LNO | Div. 3LNO | Div. 3NO | Div. 3NO | Div. 3LMNO | Subareas 3+4 | Div. 3L |
| 1. Canada | 0 | 0 | 500 | 0 | 0 | 0 | 14137 ⁷ | 0 | 0 | 4 668 | N.S. ⁴ | 10 833 |
| 2. Cuba | 0 | - | 1750 | 0 | - | - | - | - | 0 | - | 510 | 144 |
| 3. Denmark (Faroe Islands and Greenland) | 0 | - | 69 | - | - | - | - | - | - | - | - | 144 |
| 4. European Union | 0 | 0 | 3100 | 0 | 0 | 0 | 290 ⁷ | - | 0 | 17 226 | N.S. ⁴ | 144 |
| 5. France (St. Pierre et Miquelon) | - | - | 69 | - | - | - | - | - | - | - | 453 | 144 |
| 6. Iceland | - | - | - | - | - | - | - | - | - | - | - | 144 |
| 7. Japan | - | - | 400 | - | - | - | - | - | 0 | 3 189 | 510 | 144 |
| 8. Korea | - | - | 69 | - | - | - | - | - | - | - | 453 | 144 |
| 9. Norway | 0 | - | - | - | - | - | - | - | 0 | - | - | 144 |
| 10. Poland | 0 | - | - | - | - | - | - | - | 0 | - | 227 | 144 |
| 11. Estonia | | | | | | | | | | | | 144 |
| 12. Latvia | } | 0 | 13 850 ¹ | 0 | 0 | - | - | 0 | 0 | - | 1 133 ¹ | 144 |
| 13. Lithuania | | | | | | | | | | | | 144 |
| 14. Russia | | | | | | | | | | | | 144 |
| 15. Ukraine | | | | | | | | | | | | 144 |
| 16. United States of America | - | - | 69 | - | - | - | - | - | - | - | 453 | 144 |
| 17. Others | 0 | 0 | 124 | 0 | 0 | 0 | 73 ⁷ | 0 | - | 2 070 ⁵ | 794 | 0 |
| Total Allowable Catch | * ⁹ | * | 5 000 ⁵ | * | * ⁹ | * | 14 500 ⁸ | * | * | 31 122 | 34 000 | 13 000 |

¹ 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.

² The opening date for the Squid (*Illex*) fishery is 1 July.

³ Any quota listed for squid may be increased by a transfer from any "coastal state" as defined in Article 1, paragraph 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.

⁴ Not specified because the allocation 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.

⁵ Of which no more than 60% (1242 t) may be fished before 1 May 2003.

⁶ Each Contracting Party shall notify the Executive Secretary bi-weekly of catches taken by its vessels from this stock. Not more than 2500 tons may be fished before July 1, 2003. The Executive Secretary shall notify without delay all Contracting Parties of the date on which, for this stock, accumulated reported catch taken by vessels of the Contracting Parties is estimated to equal 50 and then 100 percent of the TAC for that stock.

⁷ Contracting Parties shall inform the NAFO Executive Secretary before (1 December 2002) of the measures to be taken to meet the advice of the NAFO Scientific Council, i.e. to ensure that total catches do not exceed the levels indicated.

⁸ The provisions of Part I, Section A.5c) of NAFO Conservation and Enforcement Measures shall apply.

⁹ Applicable to 2003 and 2004.

*No directed fishing – The provisions of Part I, Section A.5a and c of NAFO Conservation and Enforcement Measures shall apply.

| | | Oceanic Redfish (pelagic <i>Sebastes mentella</i>) |
|---|---|--|
| | | <u>NAFO SA 2 and Divisions 1F and 3K</u> |
| Denmark (Faroe Islands and Greenland) European Union Iceland Norway Poland Russia | } | 25,000 ^{1);2);3)} |
| Canada Cuba Estonia France (St. Pierre et Miquelon) Japan Korea Latvia Lithuania Ukraine USA | } | 7,500 ^{1);3)} |

- ¹⁾ The Contracting Parties shall notify the Executive Secretary bi-weekly of catches taken by its vessels from this allocation. The Executive Secretary shall notify without delay all Contracting Parties the dates on which accumulated reported catch taken by vessels of Contracting Parties estimated equal to 50% and then 100% of that allocation.
- ²⁾ As acceptance of this decision the quantities taken from that allocation in the NAFO Convention Area by respective Contracting Parties shall be deducted from the quotas allocated to these Contracting Parties in the NEAFC Convention Area.
- ³⁾ This arrangement applies to 2003 and is without prejudice to sharing arrangements for this stock in future years.

**Annex 9. Bulgarian Declaration on Repayment of the Bulgarian
outstanding contributions (for the years 1993-2002)**
(GC Working Paper 02/6)

The Bulgarian Delegation at the 24th Annual Meeting of NAFO states the following:

- a) Bulgaria acknowledges its outstanding contributions to NAFO Budget for the years 1993-2002 in the amount of \$171,061.42 Cdn
- b) Bulgaria declares the following schedule of the noted outstanding contribution repayment:
 - For the years 2001-2002 in the amount of \$41,264.67 to the end of 2002.
 - For the years 1993-2000 in the amount of \$129,796.75 during 2003-2004.

Pursuant to the above-noted commitment, the Bulgarian Government requests the General Council of NAFO to restore Bulgaria's voting rights under the provisions of Article XVI.9 of the NAFO Convention.

Annex 10. Letter regarding Romania's withdrawal from NAFO

**EMBASSY OF ROMANIA
OTTAWA
AMBASSADE DE ROUMANIE**



**655 RIDEAU STREET, OTTAWA, ON
CANADA, K1N 6A3
TEL. : (613) 789-3709, 789-5345
789-4037, 789-4038
FAX : (613) 789-4365**

No. 380

The Embassy of Romania presents its compliments to the Department of Foreign Affairs and International Trade - the Legal Affairs Bureau - and has the honour to notify hereby that through Law no.793 of December 29, 2001, the Parliament of Romania has adopted the decision that Romania renounces its membership in the Convention on Future Multilateral Co-operation in the Northwest Atlantic Fisheries - NAFO, signed in Ottawa on October 21, 1978.

This notification is made in conformity with the provisions of Article XXIV of the said Convention. The Embassy of Romania is kindly requesting the Legal Affairs Bureau to acknowledge receipt of the present Note and confirm the annulment of Romania's membership in NAFO.

The Embassy of Romania avails itself of this opportunity to renew to the Department of Foreign Affairs and International Trade - the Legal Affairs Bureau - the assurance of its highest consideration. *gg*

Ottawa, February 15, 2002



**DEPARTMENT OF FOREIGN AFFAIRS
AND INTERNATIONAL TRADE**

The Legal Affairs Bureau

**Annex 11. Scientific Council Consideration of Memorandum of
Understanding with ICES**
(GC Working Paper 02/7)

The Scientific Council considered a proposal presented by the Executive Secretary to develop a Memorandum of Understanding (MoU) with ICES and referred to it by General Council.

Scientific Council noted that it has had a long-standing working relationship with ICES in many scientific activities of mutual interest. The Council at present continues to work effectively with ICES, e.g. Scientific Council nominees attending ACFM Meetings of ICES, a Joint NAFO/ICES Working Group on Harp and Hooded Seals, conducting co-sponsored Symposia, etc. Under the circumstances Scientific Council is unclear as to the incremental benefits that would accrue through a formal document such as a MoU. It was accordingly decided there is not any need for a formal MoU at this stage. Scientific Council, however, agreed this matter could be considered at a later date based on any additional documentation that may be prepared outlining, in more detail, the benefits and advantages of any MoU.

Annex 12. Schedule of NAFO Intersessional Meetings, 2002-2003
(GC Working Paper 02/8)

Meetings

| | | | |
|---|----------------------|--|-----------------------|
| STACTIC W.G. on Pilot Project | D. Bevan (Canada) | 18-20 Nov 2002 (after NEAFC AM) | London (NEAFC) |
| W.G. of Fisheries Commission on Allocation (FC WP 02/30 Rev.) | (EU) | 26-28 March ¹⁾ or 18-20 February | Florida, USA |
| W.G. of the General Council on Dispute Settlement (if decided) | ? | 29-30 April | Brussels |
| W.G. (small) of STACTIC to overhaul Conservation and Enforcement Measures | ? | before STACTIC June Meeting | "preferably |
| STACTIC: - Evaluation of Part VI (incl. STACTIC W.P. 02/31) - Pilot Project (proposal from STACTIC W.G.) - Green Bible – CEM (proposal from small group) - Compliance (structure of work for September STACTIC Meeting) - Others | D. Bevan | 16-20 June | Copenhagen Denmark |

¹⁾Heads of Delegations will be notified by September 27, 2002 of the chosen dates upon notification from the US delegation.

PART II

Report of the Standing Committee on Finance and Administration (STACFAD)

1. Opening by the Chairman

The first session of STACFAD was opened by Fred Kingston (EU) on 16 September 2002.

Present were delegates from Bulgaria, Canada, Cuba, Denmark (in respect of Faroe Islands and Greenland), European Union (EU), France (in respect of St. Pierre et Miquelon), Japan, Latvia, Norway, Russian Federation, Ukraine and United States of America (USA) (Annex 1).

The Chairman welcomed delegates to Santiago de Compostela.

2. Appointment of Rapporteur

Sofeia Horsey (Canada) and Stan Goodick (NAFO Secretariat) were appointed Rapporteurs.

3. Adoption of Agenda

Delegates were presented with and accepted a revised agenda (Annex 2), which incorporated additional items for review and discussion:

- Item 15c) Amendments to Rule 7.1 of NAFO Staff Rules.
- Item 15d) Request from Bulgaria to re-establish voting rights in NAFO.

4. Auditors' Report

The Executive Secretary presented the Auditors' Report and Financial Statements of the Northwest Atlantic Fisheries Organization for the year ended 31 December 2001. The Auditors' Report, signed by Deloitte & Touche, was circulated to the Heads of Delegation prior to the 24th Annual Meeting. No comments had been received on the report.

As stated in Note 4 of the Auditors' Report entitled "Provision for Employee Termination Benefits", the Committee noted the Organization's practice of funding this liability at the rate of \$10,000 per annum as approved by the General Council at the Special Meeting in January 2002.

The Executive Secretary gave a brief overview of Notes 2 and 9 of the Auditors' report regarding a claim that the staff assessment under Rule 6.2 of the Financial Regulations should not have been deducted from the salary of the Executive Secretary. Document GF/02-366 was also circulated, which contained a legal opinion obtained by the Executive Secretary to support this claim.

STACFAD recommended that NAFO engage the services of its own legal counsel at a cost of approximately \$3,000 to investigate this claim in order to provide a legal opinion and to advise on an appropriate course of action.

STACFAD recommended that the 2001 Auditors' Report be adopted.

5. Status of the spending for the implementation of the Automated Hail/VMS System

STACFAD W.P.02/22 (Annex 3) was reviewed.

Following STACFAD's request at its last meeting, the Chairman of STACTIC provided an overview on the implementation of the system. His summary analysis of operations drew attention to both restrictions in its current application as well as to its potential to enhance tracking and reporting of vessel location and activity. It was once more pointed out that the Hail/VMS System was greatly underutilized by some Contracting Parties and the STACTIC Chairman provided STACFAD with an excerpt of a report (FC Doc 02/11) indicating how Contracting Parties are currently using the system.

STACTIC Working Paper 02/24 was tabled outlining a proposal submitted by Norway, which was subsequently agreed to by the Fisheries Commission indicating that an extra \$45,000 from the 2003 Budget would be required to implement changes to enhance the automated reporting system. This amount would be in addition to forecasted expenditures of \$34,000 for ongoing operating costs and \$10,000 in other programming changes.

An additional amount of \$30,000 from the 2003 Budget was also envisaged to implement further changes to the system arising from a proposal for a Pilot Project on Observers.

6. Review and evaluation of work descriptions for NAFO employees in the CR category with respect to consideration and application of Canadian Pay Equity Settlement

Following STACFAD's recommendation to General Council at Helsingor in January 2002, a Human Resources Consultant was engaged to prepare the job descriptions consistent with the Universal Classification System (UCS) requirement for 4 employees in the CR category at the NAFO Secretariat. The Consultant's Report is contained in STACFAD W.P.02/30. Canada agreed to have its Human Resources Classification specialists review and assess the classification category and level and report back their findings in advance of the next Annual Meeting.

STACFAD also recommended that the Secretariat engage a Human Resources Consultant, at an estimated cost of \$2,400, to prepare job descriptions for 3 other employees that had previously been in the CR category, which would then be forwarded to Canada for its analysis.

STACFAD again agreed that this issue should be treated as a priority and addressed at the 2003 Annual Meeting. The Secretariat noted that the potential cost to the NAFO Budget by the retroactive application of pay equity from 1985 to 2002, following the Canadian Pay Equity Settlement, could be as high as \$237,000.

Canada stated that the practice of promoting Secretariat staff to the next classification level once the employee had reached the maximum pay scale of their original classification level was not consistent with the NAFO Staff Rules 6.1 and 6.4.

7. Meeting of the Pension Society

The Executive Secretary presented STACFAD Working Paper 02/24, which summarized the key points regarding the Annual Meeting of the International Fisheries Commissions Pension Society, which took place in Chicago, USA 30 April - 2 May 2002.

8. Administrative and Financial Statements for 2002

The Chairman introduced NAFO/GC Doc 02/3 (Revised).

Concerning the Financial Statements, the Executive Secretary stated that salaries were over budget due to economic increases as indicated in footnote a. In response to a request made at the last meeting, STACFAD W.P.02/26 was tabled to provide salary details. An additional \$3,000 was added under "Other Contractual Service" for legal advice on the appropriateness of applying a staff assessment to the Executive Secretary (see Agenda item 4).

STACFAD noted outstanding contributions from Bulgaria (\$21,271.62), Cuba (\$21,348.20), France (\$26,426.55), Poland (\$22,037.40), Romania (\$21,271.62) and the Ukraine (\$21,271.62). France indicated that its 2002 contribution would be paid shortly. As in prior years, STACFAD recommended that the contribution from Romania be deemed uncollectable and that the amount be applied against the Accumulated Surplus Account. The Chairman noted Romania's announcement to withdraw from NAFO as of 31 December 2002.

Bulgaria addressed STACFAD and stated its intention to pay its outstanding contributions to NAFO (see GC Working Paper 02/6, Annex 4). STACFAD welcomed this statement of intent. STACFAD recommended that such contributions, which had been deemed uncollectable in prior years, shall be returned to the Accumulated Surplus Account. The distribution of these recovered contributions shall be returned to Contracting Parties as a reduction of the following year's assessed contribution. The distribution shall be calculated on the same basis as the year of the original billing distribution when the contributions were deemed uncollectable.

A schedule of outstanding contributions detailing the total amounts due from Bulgaria and Romania is attached (Annex 5).

9. Review of Accumulated Surplus Account

The Accumulated Surplus Account was reviewed and it was noted that the year-end balance is estimated to be \$181,286, provided that all outstanding member contributions (excluding Romania) were received.

As in previous years, STACFAD recommended that \$75,000 be maintained as a minimum balance in this account in order to fulfil NAFO's financial obligations in early 2003 until contributions are received. The remaining estimated accumulated surplus balance of \$106,286 at the end of 2002 would be used to reduce contributions due from Contracting Parties in 2003.

10. Salary Scale for the NAFO Executive Secretary

Some delegates expressed interest in increasing the salary level of the Executive Secretary in order to attract candidates internationally. It was noted that similar positions in other regional fisheries management organizations are classified at the D-1 level of the UN salary scale. (STACFAD Working Paper 02/20).

In order to provide some flexibility and address the concerns of certain Contracting Parties, Canada introduced STACFAD WP 02/34, proposing that the base salary of the Executive Secretary be augmented through a performance bonus, following the Canadian Public Service Executive Category. The Executive Secretary's position is currently classified in this Executive Category (EX-2).

Canada explained that in the Canadian Public Service a performance bonus is applicable in the Executive Category in the context of an annual appraisal based on agreed performance objectives. Bonuses are possible under a two-tier system:

- Part 1 would provide the Executive Secretary with a 5% increase on the base salary if established ongoing commitments of the position are "met" (or better) with a cap when the incumbent reaches the maximum of the salary scale. A 7% increase applies on the base salary if the incumbent "surpasses" ongoing commitments.
- Part 2 would provide for up to a 10% increase on the base salary if key commitments are achieved or surpassed.

STACFAD recommended that the starting salary of the incoming Executive Secretary be set at the maximum level in the EX-2 Category of the Canadian system. Under this system there is the eligibility for a performance bonus at the end of her first year in office (as per the previous paragraph). (Appraisal at Annual Meeting, September 2003.)

It was agreed that the establishment of this salary for the incoming Executive Secretary should not presuppose future considerations of job classification and/or salary scale.

STACFAD further agreed that the broad issue of possible changes in the job classification system and salary scale of the Executive Secretary be deferred to the 2003 Annual Meeting, including the possibility of enhanced duties and responsibilities.

11. Budget Estimate for 2003

GC Working Paper 02/3 (Revision 4) was tabled. It was noted that all items were standard with the exception of those items highlighted below:

6. Other Contractual Services

Consulting Fees – total estimate \$10,400 consisting of:

- Human Resources Consultant to write 3 job classifications - estimate \$2,400 (see Agenda item 6)
- Computer Technology Advisor to assess the state of current computer holdings and provide recommendations on necessary course of action to modernize/upgrade to acceptable working level - estimate \$8,000

10. Meetings - Symposia

Participation at the Co-ordinating Working Party on Fisheries Statistics (CWP) sessions in the function of the Chair of STACREC who is also the Scientific Council Vice-Chair - estimate \$5,000 – on the basis of a recommendation of the Scientific Council contained in Annex 6.

It was noted that STACFAD could expect a request for funding on an ongoing biannual basis to cover travel costs for the Chair of STACREC's attendance at the CWP. It was agreed in principle that financial provisions could be made, on a case by case basis, for officers of the Scientific Council who are required to attend meetings or symposia wherein they represent the interests of NAFO rather than those of a Contracting Party.

11. Computer Services

- Purchase of desktop and laptop to replace outdated and deficient computer equipment - estimate \$10,000.
- Program changes to the Automated Hail/VMS System - estimate \$45,000 (see Agenda item 5), to be added to \$10,000 already in forecasted programming changes.

STACFAD recommended that the budget of \$1,385,400 for the year 2003 be adopted (Annex 7).

The preliminary calculation of the 2003 billing is \$1,279,114 (Annex 8).

12. Budget forecast for 2004

STACFAD reviewed the preliminary budget forecast for 2004 of \$1,311,000 (Annex 9) and approved the forecast in principle. It was noted that the budget for 2004 will be reviewed in detail at the next Annual Meeting.

13. Recruitment of the new Executive Secretary

STACFAD reviewed the process for the recruitment of the new Executive Secretary, set-up at the 2002 Special Meeting in Helsingor, Denmark, to evaluate its effectiveness. Delegates expressed overall satisfaction with the process. Using the website with password protection was efficient and worked well to expedite the entire process.

It was noted, however that:

- Four Contracting Parties did not provide preferred candidates;
- Not all Contracting Parties complied with the deadline for submitting their selection of 10 preferred candidates;
- Some Contracting Parties experienced technical difficulties and could not download files due to the inability of their systems to handle the size of the files transmitted;
- Four Contracting Parties did not submit a full list of 10 candidates (out of the total number received), although it did not affect the selection of the four final candidates. It was suggested that perhaps Contracting Parties could be asked to select less than 10 preferred candidates when a future selection process is undertaken;
- Discretion was required by the Secretariat in screening applications received to ensure they were relevant to the position advertised; and
- It could have been confirmed in advance that candidates would be scheduled for interviews earlier in the week thereby eliminating the need to cover travel expenses for an entire week.

Canada tabled STACFAD W.P.02/33, a draft proposed contract between NAFO and the incoming Executive Secretary for review and consideration.

STACFAD recommended that NAFO seek independent legal counsel to review the proposed contract. This expense will be covered under the 2002 budget.

14. Time and Place of 2004 and 2005 Annual Meetings

The 2004 Annual Meeting will be held in Halifax, N.S., Canada, unless an invitation to host is extended by a Contracting Party and accepted by the Organization.

The dates of the 2004 Annual Meeting are as follows:

| | | |
|----------------------|---|-----------------|
| Scientific Council | - | 08-17 September |
| General Council | - | 13-17 September |
| Fisheries Commission | - | 13-17 September |

STACFAD recommended that the dates for the 2005 Annual Meeting be as follows, with the location in Halifax, unless an invitation to host is extended by a Contracting Party and accepted by the Organization:

| | | |
|----------------------|---|-----------------|
| Scientific Council | - | 07-16 September |
| General Council | - | 12-16 September |
| Fisheries Commission | - | 12-16 September |

15. Other issues including any questions referred from the General Council during the current Annual Meeting

15a) Review and evaluation of survey results regarding disposition of NAFO publications and electronic communications

Mindful of the need to accommodate those Contracting Parties with limited technological systems, and other Parties concerned, STACFAD recommended that:

- the Secretariat continue to accelerate the transition from print to electronic (outgoing) communication to both the public and Contracting Parties with a view to dramatically reducing costs and improving efficiency and timeliness of such transmissions;
- in principle, the primary means of disseminating information to Contracting Parties should be via e-mail and website access, utilizing password protected links as necessary;
- a regular review of e-mail addresses be undertaken to ensure that they are valid and up-to-date; and
- the Secretariat continue to vigorously pursue avenues to improve the day-to-day operations of the Organization and to modernize its communication systems and procedures.

15b) Public information on NAFO activities

Extensive discussion took place regarding public access to information on NAFO activities. STACFAD recognized the need to modernize access to NAFO information and to improve the flow of such information.

STACFAD recommended that, in principle, the primary means of providing information to the public be through the NAFO website with the availability of hardcopy material at a nominal fee in order to recover printing and mailing costs.

15c) Amendments to Staff Rule 7.1

STACFAD W.P.02/27 was tabled (Annex 10), which amends Rule 7.1 of the NAFO Staff Rules. These proposed changes are consistent with recent benefits negotiated between the Treasury Board of Canada and the Public Service Alliance of Canada. STACFAD recommended that this amendment be adopted.

15d) Request from Bulgaria to re-establish voting rights in NAFO

Bulgaria formally requested General Council to reinstate its voting rights in NAFO on the basis of a commitment to pay its 2001 and 2002 contributions (i.e. \$41,264.67) by the end of 2002 and to pay the balance of its outstanding contributions (\$129,796.75) during 2003-2004 (see GC Working Paper 02/6 - Annex 4). The delegates recognized that under Article XVI(9) of the NAFO Convention ..."A Contracting Party which has not paid its contributions for two consecutive years shall not enjoy any right of casting votes and presenting objections under this Convention until it has fulfilled its obligations, unless the General Council decides otherwise."

On this basis, STACFAD recommended that, once Bulgaria has paid its 2001-2002 contributions, General Council consider the issue of according voting rights to Bulgaria pursuant to Article XVI(9).

16. Adjournment

The final session of the STACFAD meeting adjourned on 19 September 2002 at 2035 hrs.

Annex 1. List of Participants

| Name | Contracting Party |
|-----------------------|---|
| Kostadin Kodzhabashev | Bulgaria |
| David Bevan | Canada |
| Sofeia Horsey | Canada |
| Greg Peacock | Canada |
| Bob Steinbock | Canada |
| Victor Sarda Espinosa | Cuba |
| Lars Madsen | Denmark (F&G) |
| Fred Kingston | European Union |
| Christophe Le Villain | European Union |
| Manfred Stein | European Union |
| Sarah Ausseil | France (SPM) |
| Keiko Suzuki | Japan |
| Ricards Derkacs | Latvia |
| Heidi Johansen | Norway |
| Victor Solodovnik | Russian Federation |
| Vasyl Chernik | Ukraine |
| Ralph Mayo | USA |
| Patrick Moran | USA |
| Leonard Chepel | NAFO Secretariat |
| Stan Goodick | NAFO Secretariat |
| Forbes Keating | NAFO Secretariat |
| Johanne Fischer | Incoming NAFO Executive Secretary (from 1 January 2003) |

Annex 2. Agenda

1. Opening by the Chairman, G. F. Kingston (EU)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Auditor's Report
5. Status of the spending for the implementation of the Automated Hail/VMS System
6. Review and evaluation of work descriptions for NAFO employees in the CR category with respect to consideration of application of Canadian Pay Equity Settlement
7. Meeting of the Pension Society
8. Administrative and Financial Statements for 2002 (end July)
9. Review of Accumulated Surplus Account
10. Salary scale for the NAFO Executive Secretary
11. Budget Estimate for 2003
12. Budget Forecast for 2004
13. Recruitment of the new Executive Secretary
14. Time and Place of 2004-2005 Annual Meetings
15. Other issues including any questions referred from the General Council during the current Annual Meeting
 - b) Review and evaluation of survey results regarding disposition of NAFO publications and electronic communications
 - c) Public information on NAFO activities
 - d) Amendments to Rule 7.1 of NAFO Staff Rules
 - e) Request from Bulgaria to re-establish voting rights in NAFO
16. Adjournment

**Annex 3. Status of spending for the implementation of the Automated Hail/
VMS System
(STACFAD W.P. 02/22)**

| | Budget <u>2002</u> | Forecast <u>2002</u> |
|---|-----------------------|-----------------------------|
| <u>Automated Hail/VMS Expenditures (Computer Services):</u> | | |
| Trackwell Software - Annual support and maintenance | \$18,300 | \$18,300 |
| Aliant Telecom - X.25 line | 12,980 | 12,980 |
| Trackwell Software - X.400 line | 720 | 720 |
| Trackwell Software – Additional billings (network connection problems, setting up Contracting Parties, proposals for changes to system) | | 4,000 |
| | <hr/> \$32,000 | <hr/> \$36,000 <hr/> |

**Annex 4. Bulgarian declaration on repayment of the Bulgarian
Outstanding contributions (for the years 1993-2002)**
(GC W.P. 02/06)

The Bulgarian Delegation at the 24th Annual Meeting of NAFO states the following:

- a) Bulgaria acknowledges its outstanding contributions to NAFO Budget for the years 1993-2002 in the amount of \$171,061.42 Cdn
- b) Bulgaria declares the following schedule of the noted outstanding contribution repayment:
 - For the years 2001-2002 in the amount of \$41,264.67 to the end of 2002.
 - For the years 1993-2000 in the amount of \$129,796.75 during 2003-2004.

Pursuant to the above-noted commitment, the Bulgarian Government requests the General Council of NAFO to restore Bulgaria's voting rights under the provisions of Article XVI.9 of the NAFO Convention.

Annex 5. Schedule of Outstanding Contributions from Bulgaria and Romania
(STACFAD W.P. 02/23)

The following is a summary of outstanding contributions from Bulgaria and Romania:

| | <u>Bulgaria</u> | <u>Romania</u> |
|------------------------------|-----------------|----------------|
| 1 January – 31 December 1982 | | \$2,700.75 |
| 1 January – 31 December 1983 | | 11,000.00 |
| 1 January – 31 December 1984 | | 11,483.06 |
| 1 January – 31 December 1985 | | 12,688.81 |
| 1 January – 31 December 1986 | | 11,784.09 |
| 1 January – 31 December 1987 | | 15,273.97 |
| 1 January – 31 December 1988 | | 14,189.50 |
| 1 January – 31 December 1989 | | 16,618.05 |
| 1 January – 31 December 1990 | | 17,875.65 |
| 1 January – 31 December 1991 | | 20,060.56 |
| 1 January – 31 December 1992 | | 18,702.14 |
| 1 January – 31 December 1993 | 18,109.12 | 17,473.10 |
| 1 January – 31 December 1994 | 14,893.10 | 14,893.10 |
| 1 January – 31 December 1995 | 16,614.28 | 16,614.28 |
| 1 January – 31 December 1996 | 15,944.93 | 15,944.93 |
| 1 January – 31 December 1997 | 15,002.75 | 15,002.76 |
| 1 January – 31 December 1998 | 16,121.90 | 16,121.89 |
| 1 January – 31 December 1999 | 16,267.88 | 16,267.87 |
| 1 January – 31 December 2000 | 16,842.79 | 16,842.79 |
| 1 January – 31 December 2001 | 19,993.05 | 19,993.05 |
| 1 January – 31 December 2002 | 21,271.62 | 21,271.62 |
| | \$171,061.42 | \$322,802.09 |

Annex 6. Scientific Council recommendation regarding CWP participation

(Scientific Council Report, SCS Doc. 02/19, page 73)

ii) CWP 20th Session, January 2003

The NAFO Secretariat announced that the CWP 20th Session is scheduled to be held at the Headquarters of the Indian Ocean Tuna Commission (IOTC) in the Seychelles during 21-24 January 2003. STACREC drew attention to the draft agenda included in SCS Doc. 02/11 and requested members to provide any suggested changes or additional agenda items to the Assistant Executive Secretary to communicate to the CWP Secretary.

Continuing the usual practice, STACREC **recommended** that *the Assistant Executive Secretary attend the CWP 20th Session to be held in the Seychelles during 21-24 January 2003.*

STACREC further noted that both the STACREC Chair and the Assistant Executive Secretary make valuable contributions to the CWP sessions. The Assistant Executive Secretary brings continuity and an international focus while the STACREC Chair brings a focus on the needs of the Scientific Council. STACREC recognises that significant costs can be associated with attending the CWP sessions. These costs for the STACREC Chair should be covered by the standard NAFO budget. STACREC therefore **recommended** that *the Rules of Procedure of the Scientific Council be modified to include participation at CWP sessions in the functions of the Vice-Chair who is also the Chair of STACREC and that the Scientific Council Chair address the budgetary aspect of this to the Executive Secretary with respect to the attendance at the 20th CWP Session and subsequent sessions.*

STACREC noted that the Scientific Council invites the participation of representatives of any Contracting Party (at national expense) at the CWP 20th Session, and requested interested parties to contact the NAFO Secretariat.

Annex 7. Budget Estimate for 2003

Northwest Atlantic Fisheries Organization

(Canadian Dollars)

| | Approved Budget for 2002 | Projected Expenditures for 2002 | Preliminary Budget Forecast for 2003 | Budget Estimate for 2003 |
|---|--------------------------------|---------------------------------------|---|--------------------------------|
| 1. Personal Services | | | | |
| a) Salaries | \$ 735,000 | \$ 748,000 | \$748,000 | \$759,000 ^a |
| b) Superannuation and Annuities | 81,000 | 73,000 | 80,000 | 73,000 |
| c) Group Medical and Insurance Plans | 69,000 | 69,000 | 71,000 | 76,000 |
| d) Termination Benefits | 22,000 | 61,000 | 20,000 | 22,000 ^b |
| e) Accrued Vacation Pay | 1,000 | 14,000 | 1,000 | 1,000 |
| f) Termination Benefits Liability | 10,000 | 10,000 | 10,000 | 10,000 |
| 2. Travel | 26,000 | 21,000 | 4,000 | 19,000 ^c |
| 3. Transportation | 1,000 | 1,000 | 1,000 | 1,000 |
| 4. Communications | 60,000 | 56,000 | 41,000 | 59,000 |
| 5. Publications | 30,000 | 30,000 | 30,000 | 30,000 |
| 6. Other Contractual Services | 48,000 | 51,000 | 45,000 | 58,400 |
| 7. Additional Help | 1,000 | 1,000 | 1,000 | 1,000 |
| 8. Materials and Supplies | 30,000 | 30,000 | 30,000 | 30,000 |
| 9. Equipment | 5,000 | 5,000 | 5,000 | 5,000 |
| 10. Meetings | | | | |
| Annual General Meeting and Scientific Council Meetings | 66,000 | 85,000 | 66,000 | 76,000 ^d |
| Inter-sessional Meetings | 55,000 | 56,000 | 30,000 | 40,000 ^e |
| Symposium | 8,000 | 8,000 | - | 5,000 |
| 11. Computer Services | 48,000 | 52,000 | 48,000 | 120,000 |
| 12. Recruitment and Relocation | 73,000 | 73,000 | - | |
| | \$1,369,000 | \$1,444,000 | \$1,231,000 | \$1,385,400 |

^a NAFO's salaries budget estimate for 2003 includes a 2.5% economic increase.

^b This figure is for 2003 credits and conforms with NAFO Staff Rule 10.4(a).

^c Travel costs for 2003 include: (i) the Assistant Executive Secretary and the Chair of STACREC to the Co-ordinating Working Party on Fishery Statistics (CWP) of the Food and Agriculture Organization (FAO) of the United Nations, January 2003, Seychelles; (ii) the Assistant Executive Secretary to the 25th Session of the Committee on Fisheries (COFI) at FAO in February 2003, Rome and the Regional Fishery Bodies to be held immediately after the COFI Meeting; (iii) two invited experts to a Scientific Council Workshop on Precautionary Approach in 2003.

^d This figure includes the cost for the 25th Annual Meeting, September 2003, Dartmouth, Canada, the Scientific Council Meeting, June 2003, Dartmouth, Canada and the Scientific Council Shrimp Meeting, November 2003, venue to be determined.

^e General provision for 4 or 5 inter-sessional meetings (Quota Allocation, Precautionary Approach, Drafting Group/STACTIC) during 2003.

Annex 8. Preliminary Calculation for 2003

NORTHWEST ATLANTIC FISHERIES ORGANIZATION

Preliminary calculation of billing for Contracting Parties
against the proposed estimate of \$1,385,400 for the 2003
financial year (based on 17 Contracting Parties to NAFO)
(Canadian Dollars)

| | |
|--|-----------------------|
| Budget Estimate..... | \$1,385,400.00 |
| Deduct: Amount from Accumulated Surplus Account..... | <u>106,286.00</u> |
| Funds required to meet 2003 Administrative Budget..... | <u>\$1,279,114.00</u> |

60% of funds required = \$767,468.40
30% of funds required = 383,734.20
10% of funds required = 127,911.40

| Contracting Parties | Nominal Catches for 2000 | % of Total Catch in the Convention Area | 10% | 30% | 60% | Amount Billed |
|---|--------------------------------|--|--------------|--------------|--------------|-----------------------|
| Bulgaria | - | - | - | \$22,572.60 | - | \$ 22,572.60 |
| Canada | 508,877 | 57.00 | \$81,888.36 | 22,572.60 | \$437,456.98 | 541,917.94 |
| Cuba | 46 | 0.01 | - | 22,572.60 | 76.74 | 22,649.34 |
| Denmark (Faroes & Greenland) ^{1,2} | 118,435 | 13.26 | 19,058.53 | 22,572.60 | 101,766.31 | 143,397.44 |
| Estonia | 13,415 | 1.50 | - | 22,572.60 | 11,512.03 | 34,084.63 |
| European Union | 37,047 | 4.15 | - | 22,572.60 | 31,849.94 | 54,422.54 |
| France (St. Pierre et Miquelon) | 5,200 | 0.58 | 836.78 | 22,572.60 | 4,451.32 | 27,860.70 |
| Iceland | 9,363 | 1.05 | - | 22,572.60 | 8,058.42 | 30,631.02 |
| Japan | 2,816 | 0.32 | - | 22,572.60 | 2,455.90 | 25,028.50 |
| Republic of Korea | - | - | - | 22,572.60 | - | 22,572.60 |
| Latvia | 3,397 | 0.38 | - | 22,572.60 | 2,916.38 | 25,488.98 |
| Lithuania | 4,047 | 0.45 | - | 22,572.60 | 3,453.61 | 26,026.21 |
| Norway ¹ | 3,974 | 0.45 | - | 22,572.60 | 3,453.61 | 26,026.21 |
| Poland | 1,732 | 0.19 | - | 22,572.60 | 1,458.19 | 24,030.79 |
| Russian Federation | 22,067 | 2.47 | - | 22,572.60 | 18,956.47 | 41,529.07 |
| Ukraine | - | - | - | 22,572.60 | - | 22,572.60 |
| United States of America ¹ | 162,365 | 18.19 | 26,127.73 | 22,572.60 | 139,602.50 | 188,302.83 |
| | 892,781 | 100.00 | \$127,911.40 | \$383,734.20 | \$767,468.40 | <u>\$1,279,114.00</u> |
| Funds required to meet 1 January - 31 December 2003 Administrative Budget | | | | | | <u>\$1,279,114.00</u> |

¹ Provisional Statistics used when calculating 2000 nominal catches which have not been reported from some Contracting Parties.

² Faroe Islands = 8,531 metric tons
Greenland = 109,904 metric tons

Annex 9. Preliminary Budget Forecast for 2004
(Canadian Dollars)

| | | |
|-----|---|---------------------|
| 1. | Personal Services | |
| | a) Salaries | \$ 785,000 |
| | b) Superannuation and Annuities | 75,000 |
| | c) Group Medical and Insurance Plans | 78,000 |
| | d) Termination Benefits | 21,000 ^a |
| | e) Accrued Vacation Pay | 1,000 |
| | f) Termination Benefits Liability | 10,000 |
| 2. | Travel | 15,000 ^b |
| 3. | Transportation | 1,000 |
| 4. | Communications | 45,000 |
| 5. | Publications | 30,000 |
| 6. | Other Contractual Services | 48,000 |
| 7. | Additional Help | 1,000 |
| 8. | Materials and Supplies | 30,000 |
| 9. | Equipment | 5,000 |
| 10. | Meetings | |
| | Annual General Meeting and Scientific Council Meetings | 76,000 ^c |
| | Inter-sessional Meetings | 40,000 |
| 11. | Computer Services | 50,000 |
| | | \$1,311,000 |

^a This figure is for 2004 credits and conforms with NAFO Staff Rule 10.4(a).

^b Travel costs for 2004 is for the Assistant Executive Secretary's attendance at a Co-ordinating Working Party on Fishery Statistics (CWP) inter-sessional meeting of the Food and Agriculture Organization of the United Nations (FAO) and two staff members to the annual meeting of Directors and Executive Secretaries of the International Fisheries Commissions Pension Society (IFCPS), April 2004, Washington, DC, USA.

^c This figure includes the cost for the 26th Annual Meeting, September 2004 and Scientific Council Meetings June and November 2004.

Annex 10. Amendments to Rule 7.1 of NAFO Staff Rules

Amendments to *Rule 7.1* of NAFO Staff Rules
by
NAFO Secretariat

As a result of negotiations and signed contracts between the Treasury Board of Canada and the Public Service Alliance of Canada that included some improvements to its annual leave provisions, Rule 7.1 of the NAFO Staff Rules should be amended accordingly. Please note that for comparison purposes the amendments to Rule 7.1 are underlined and the text from the current Rule 7.1 is in square brackets [].

Rule 7.1

Members of the Secretariat shall be entitled to annual leave with pay at the following rates:

- a) one and one-quarter (1-1/4) days for each calendar month until the month in which the anniversary of the employee's eighth (8th) year of continuous employment occurs;
- b) one and two-thirds (1-2/3) days for each calendar month commencing with the month in which the employee's eighth (8th) anniversary of continuous employment occurs;
- c) one and five-sixths (1-5/6) days for each calendar month commencing with the month in which the employee's sixteenth (16th) anniversary of continuous employment occurs;

[item c) is a new entitlement to annual leave]

- d) one and eleven-twelfths (1-11/12) days for each calendar month commencing with the month in which the employee's seventeen (17th) anniversary of continuous employment occurs;
- e) two and one-twelfth (2-1/12) days for each calendar month commencing with the month in which the employee's eighteenth (18th) anniversary of continuous employment occurs;
- f) two and one-quarter (2-1/4) [two and one-third (2-1/3)] days for each calendar month commencing with the month in which the employee's twenty-seventh (27th) [twenty-eighth (28th)] anniversary on continuous employment occurs;
- g) two and one-half (2-1/2) days for each calendar month, commencing with the month in which the employee's twenty-eighth (28th) [twenty-ninth (29th)] anniversary of continuous employment occurs;
- h) For the purposes of leave entitlements in accordance with these staff rules, an employee of the Professional Category (Rule 3.1 (a)) may receive credit for continuous years of service prior to joining NAFO in federal or provincial governments (and international equivalencies), and years of service in other international organizations as agreed by a signed contract between the employee and NAFO;

PART III

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

1. Opening by Chairman

The meeting was called to order by the Chairman, Mr. Daniel Silvestre (France – SPM) at 2PM on 16 September 2002. The following Contracting Parties were present: Canada, Denmark (in respect of the Faroe Islands and Greenland), the European Community, France (in respect of St. Pierre and Miquelon), Japan, Norway, the Russian Federation and the United States of America. A representative from the Food & Agriculture Organization was also present as an observer. (Annex 1)

2. Appointment of Rapporteur

Ms. Allison Saunders (Canada) was appointed rapporteur.

3. Adoption of Agenda

The agenda was adopted with recognition that, as STACFAC did not meet in 2001, information from that year should also be considered so that there would be no gaps in STACFAC's work (Annex 2). The Chairman indicated that items 4 and 5 would be dealt with together.

4. Review of 2002 information on activities of Non-Contracting Party vessels in the Regulatory Area

5. Review of 2002 information on landings and transshipments of fish caught by Non- Contracting Party vessels in the Regulatory Area

Canada presented a report on Non-Contracting Party activity in the Regulatory Area (STACFAC WP 02/1) and circulated photographs of the activity. The report highlighted that to date in 2002 six vessels flagged to Belize have harvested an estimated 6000 tonnes of oceanic redfish in divisions 1F and 2J. Canada also indicated that through communications with the vessels and with Belize and Cyprus, it had determined that one of the vessels (Kadri) was of Belizean registry but that several of the vessels (Olchan, Oyra and Okhotino) were of dual registration, having been registered in Cyprus but "chartered-in" to the Belizean registry with effect from 29 March 2002 – 28 March 2003. Canada indicated that it continued to seek information from Belize and Cyprus regarding the registration of the vessels Ostroe and Ostrovets. Canada further advised that the Ostroe had been photographed transshipping fish to the Russian flagged cargo vessel Metelitsa. Canada stressed that further information was required from Russia regarding these vessels.

The Russian Federation indicated it had only recently received information on these vessels. Inquiries had revealed that the vessels were all formerly Russian and that the ship owner had decided to reflag to pursue 1F redfish. The representative of the Russian Federation confirmed that the Metelitsa was registered in Murmansk but that it had not landed or transhipped into a Russian port. The Russian Federation stated its willingness to investigate these issues and report to NAFO but stressed the need for an official paper, such as a letter from NAFO, to commence this process.

While Canada's report will be circulated to all Contracting Parties by the Secretariat pursuant to paragraph 6 of the Scheme to Promote Compliance by Non-Contracting Party Vessels with the Conservation and Enforcement Measures Established by NAFO ("Scheme"), it was agreed to also recommend to the General Council that the Executive Secretary send a letter to the Russian Federation seeking information on the registration of the six fishing vessels and encouraging Russia to take action vis à vis the transshipment to the Metelitsa (Annex 3). Canada also undertook to provide copies of the circulated photos as well as more detailed information regarding the vessels (eg: call signs) to the Russian Federation.

There was some discussion as to whether the transshipment activity to a Contracting Party fell more properly within the purview of STACTIC or STACFAC. It was noted that this question of forum would arise with any activity that involved both Contracting and Non-Contracting Parties.

In addition to the notification of the flag state by the Secretariat required by paragraph 6 of the Scheme, it was also agreed to recommend to the General Council that letters from the President of NAFO seeking more information on the registration of the fishing vessels be sent to Belize and Cyprus (Annexes 4 and 5). France (SPM) agreed to deliver the letter to Belize through diplomatic channels and Canada undertook to similarly deliver the letter to Cyprus.

6. Review of information on imports of species regulated by NAFO from Non-Contracting Parties whose vessels have fished in the Regulatory Area

There was no information under this agenda item.

7. Reports by Contracting Parties on diplomatic contacts with Non-Contracting Party Governments concerning fishing in the Regulatory Area

The representative of the European Community reported that they had sent a letter to Sao Tome and Principe on 17 October 2000 to which no reply had been received. The Chair noted that in response to an unrelated matter, the Government of France had received a response from Sao Tome and Principe advising that Sao Tome and Principe now only registered fishing vessels for fisheries in its coastal waters.

The representative of Canada advised that in spring 2001, letters had been sent to Panama and Honduras but the only response had been an acknowledgement of receipt. The USA noted that it had sent letters to Belize and Sierra Leone.

It was noted that follow up on responses or lack thereof from Non-Contracting Parties was important. To facilitate effective follow up, it was agreed to recommend to the General Council that the Secretariat be asked to produce annually a table compiling past communications (including responses) with Non-Contracting Parties. It was further noted that, once compiled, STACFAC could consider sharing this table with other regional fisheries management organizations.

8. Reports by Contracting Parties on legal, administrative and practical actions that have been taken to implement the NAFO Scheme

The EC noted that the Non-Contracting Party vessels observed fishing in the NAFO Regulatory Area in 2002 had also been sighted fishing in the NEAFC Regulatory Area. The representative of Denmark (in respect of the Faroe Islands and Greenland) noted that sightings of Non-Contracting Party vessels in the NEAFC Regulatory Area are reported by the NEAFC Secretariat to the NAFO

Secretariat at the time of the sighting for distribution to all parties. He noted that such sharing of information appeared to be happening on an informal basis but that it would be useful to ensure that such information would be exchanged. It was agreed to ask the NAFO Secretariat to write to the NEAFC Secretariat suggesting this information always be exchanged without delay.

9. Discussion of the FAO International Plan of Action to prevent, deter and eliminate illegal, unreported and unregulated fishing

The representative for the European Community noted that the IPOA on IUU encouraged countries to complete a national plan of action no later than 2004. In this respect, he noted the EC planned to reinforce control measures, including its contribution to the international surveillance network. As well, anticipating the entry into force of the FAO Compliance Agreement, the European Community, in 2003, would continue to provide fleet information to FAO as required by article 6 of that Agreement. The European Commission has provided a proposal to member states underlining the need for consistency between actions taken by regional fisheries management organizations on IUU fishing and emphasizing the necessary definition of the “genuine link” between a flag state and its vessels as well as the necessary definition of the rights and obligations of port states. This document will be presented to the European Council of Ministers as part of the reform of the Common Fisheries Policy. Thus, the EC anticipates that it will be able to present the community plan of action on IUU fishing to the 2003 meeting of the FAO Committee on Fisheries.

The observer from FAO drew attention to its publication of technical guidelines under the IPOA on IUU as well as a plain language version of the IPOA. Copies of these publications may be obtained from FAO in multiple languages. The observer also noted that FAO will be hosting, from 4-6 November 2002 in Rome, an expert consultation to review port state measures to combat IUU fishing.

The Chairman then drew attention to a paper prepared by the Norwegian delegation and circulated at the General Council meeting in January 2002 as GC WP 02/1. The paper is a review by Norway of the portions of the IPOA on IUU relating to regional fisheries management organizations and presents Norway’s assessment as to whether NAFO has already established measures indicated in the IPOA. Given the limited time available, delegates briefly reviewed the Norwegian paper and decided to recommend to General Council that STACFAC be mandated to determine if measures relating to the provisions of the IPOA on IUU had been established in NAFO or whether further action by NAFO was desirable. STACFAC would then report its assessment to General Council to seek guidance on the development of proposals. Canada observed that the Norwegian paper assessed the portion of the IPOA on IUU of most relevance to NAFO. Canada noted that the IPOA on IUU was also relevant to Contracting Parties and indicated that in seeking its mandate from General Council, STACFAC should voice its limitations in this respect.

10. Report and Recommendations to the General Council

The representative of Denmark (in respect of the Faroe Islands and Greenland) indicated that the most recent incident of fishing by Non-Contracting Parties in the Regulatory Area highlighted the need for procedural improvements. Notably, he indicated that Contracting Parties submitting information pursuant to paragraph 6 of the Scheme should mark it accordingly for easy identification by the Secretariat. There was general agreement on this suggestion.

The representative of Denmark (in respect of the Faroe Islands and Greenland) also recommended clarification of the processes to be followed by Contracting Parties in implementing paragraph 11 of the Scheme. He sought the views of the Committee on the application of paragraph 11 to

transshipment at sea. In response, the representative of Canada indicated her understanding that as the term “transshipment” was not modified in the Scheme, it applied to all types of transshipment. She further noted that the Drafting Group engaged in overhauling the NAFO Conservation and Enforcement Measures had recommended incorporation of a definition of “fishing vessel” which included transshipment vessels. The USA agreed with the points made by Canada and stated that the Scheme defined “fishing activity” to include transshipment and that under the Scheme a “fishing vessel” was simply one engaged in a “fishing activity”. The USA indicated that the ambiguity in paragraph 11 lay with whether a Contracting Party vessel which had received a transshipment of fish from a Non-Contracting Party vessel was covered by the landing and transshipment restriction applicable to Non-Contracting Party vessels. The EC concurred and noted that article 4 of its Council Regulation 1262/2000 of 8 June 2000, implementing the Scheme, prohibited transshipment from Non-Contracting Party vessels, including transshipment at sea.

The representative of Canada indicated that while guidance from STACFAC on the implementation of paragraph 11 might be helpful, the Scheme should not prescribe how Contracting Parties were to fulfill their obligations. By way of example, she further noted that Canada fulfilled its obligation in this regard by requiring a licence for all transshipments occurring in Canadian ports or waters. There was general agreement that developing guidance on paragraph 11, perhaps to be included as an annex to the Scheme, would be useful.

The representative of Canada also indicated that given the fishery on which the recent Non-Contracting Party activity was occurring, it would be useful to add oceanic redfish (pelagic *Sebastes mentella*) to annex A or B of the Scheme as appropriate.

The representative of Canada also drew attention to several discrepancies between the Scheme and paragraphs of the NAFO Conservation and Enforcement Measures and suggested that it might be appropriate to rectify them. In particular, she highlighted that section I.J of the Conservation and Enforcement Measures referred only to Contracting Parties ensuring that “their fishing vessels” do not receive transshipments from Non-Contracting Parties as opposed to “their vessels” and that, for clarity, VII.1(i) should refer to port calls by Non-Contracting Party and Contracting Party vessels that have engaged in fishing for stocks in the Regulatory Area. In addition, she suggested that it would be useful for the Drafting Group engaged in the overhaul of the Conservation and Enforcement Measures to review the possible incorporation of the entirety of the Scheme in the Conservation and Enforcement Measures. There was general approval for this suggestion, although it was acknowledged that there had been some discussions in STACTIC with respect to the Scheme in the past.

STACFAC thus recommends to the General Council that:

1. the Executive Secretary send a letter to the Russian Federation seeking information on the registration of the six Belizean flagged fishing vessels and encouraging the Russian Federation to take action vis à vis the transshipment to a Russian flagged cargo vessel by a Non-Contracting Party vessel;
2. the President of NAFO write to Belize and Cyprus seeking more information on the registration of the Belizean fishing vessels and that these letters be delivered by the Governments of France and Canada respectively;
3. the Secretariat be asked to produce annually a table compiling past communications (including responses) with Non-Contracting Parties regarding fishing in the NAFO Regulatory Area;
4. the NAFO Secretariat write to the NEAFC Secretariat suggesting that information on sightings of Non-Contracting Party vessels fishing in their respective regulatory areas always be exchanged without delay;

5. STACFAC be mandated to determine if measures relating to all relevant provisions of the IPOA on IUU have been established in NAFO or whether further action is desirable and report its assessment to General Council. In this respect STACFAC draws to the attention of the General Council that the IPOA on IUU is relevant to both Non-Contracting Parties and Contracting Parties but that STACFAC is limited to assessing the IPOA with regard to Non-Contracting Parties;
6. Contracting Parties submitting information pursuant to paragraph 6 of the Scheme should mark it accordingly for easy identification by the Secretariat.
7. STACFAC develop guidance on implementation of paragraph 11 of the Scheme;
8. the specific discrepancies noted between the Scheme and the Conservation and Enforcement Measures per agenda item 10 above be drawn to the attention of the Fisheries Commission for STACTIC's consideration;
9. contingent upon adoption of relevant proposals by the Fisheries Commission, that oceanic redfish (pelagic *Sebastes mentella*) be added to annex A or B, as appropriate, of the Scheme;
10. it recommend to the Fisheries Commission that the Drafting Group engaged in the overhaul of the Conservation and Enforcement Measures review the possible incorporation of the entirety of the Scheme in the Conservation and Enforcement Measures as part of its work.

11. Election of Chairman and Vice-Chairman

The Chairman brought to the attention of the Committee that the terms of service of both the Chairman and the Vice-Chairman would soon expire. Mr. Daniel Silvestre (France – SPM) was re-elected as Chairman for the next two years. Ms. Nadia Bouffard (Canada) was re-elected as Vice-Chairman for the next two years.

12. Other Matters

No other matters were discussed.

13. Adjournment

The Committee adjourned at 7:30PM on Wednesday 18 September 2002.

Annex 1. List of Participants

| | |
|--|---|
| Canada | Ms. Nadia Bouffard Ms. Judy Dwyer Ms. Allison Saunders |
| Denmark (in respect of the Faroe Islands and Greenland) | Mr. Einar Lemche Mr. Árni Olafsson |
| European Community | Mr. Yan Becouarn Mr. Per Heller Mr. Christophe Le Villain |
| France (in respect of Saint Pierre and Miquelon) | Ms. Sarah Ausseil Mr. Daniel Silvestre |
| Japan | Mr. Sato Tsuneaki |
| Norway | Ms. Turid Rodrigues Eusébio |
| Russian Federation | Mr. Alexander Okhanov Mr. Vadim Agalakov |
| USA | Mr. Gene Martin |
| | Observers |
| FAO | Mr. David Doulman |

Annex 2. Agenda

1. Opening by Chairman, Daniel Silvestre (France – SPM)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Review of 2002 information on activities of Non-Contracting Party vessels in the Regulatory Area
5. Review of 2002 information on landings and transshipments of fish caught by Non-Contracting Party vessels in the Regulatory Area
6. Review of information on imports of species regulated by NAFO from Non-Contracting Parties whose vessels have fished in the Regulatory Area
7. Reports by Contracting Parties on diplomatic contacts with Non-Contracting Party Governments concerning fishing in the Regulatory Area
8. Reports by Contracting Parties on legal, administrative and practical actions that have been taken to implement the NAFO Scheme (the NAFO Scheme to promote compliance....)
9. Discussion of the FAO International Plan of Action to prevent, deter and eliminate illegal, unreported and unregulated fishing
10. Report and Recommendations to the General Council
11. Election of Chairman and Vice-Chairman
12. Other Matters
13. Adjournment

Annex 3. Letter to Russian Federation

Address (Russian Head of Delegation to NAFO)

Dear _____:

I am writing officially to draw your attention to a report on fishing activities by Non-Contracting Parties in the NAFO Regulatory Area (STACFAC WP 02/1). This report indicates that during 2002 six Belizean flagged fishing vessels were sighted engaged in fishing activities in the NAFO Regulatory Area by Canadian surveillance. As there is some indication that these vessels were formerly registered in Russia, I would be grateful for your confirmation that the following vessels are no longer on the register of the Russian Federation or entitled to fly its flag: Olchan, Oyra, Kadri, Okhotino, Ostroe and Ostrovets. Any information you can provide on the current registry of these vessels would also be greatly appreciated. As you are aware, there is some indication that a number of the vessels may be registered in Belize and Cyprus and NAFO is also seeking information from these countries in this regard.

I would also like to officially draw your attention to an incident of transshipment, also noted in the attached report, from one of these Non-Contracting Party vessels (Ostroe) to a Russian flagged cargo vessel (Metelitsa). As a Contracting Party of NAFO, I would draw to your attention paragraph 11 of the Scheme to Promote Compliance by Non-Contracting Party Vessels with the Conservation and Enforcement Measures Established by NAFO. This paragraph requires Contracting Parties to ensure that their vessels do not receive transshipments of fish from Non-Contracting Party vessels that have been sighted and reported as having engaged in fishing activities in the NAFO Regulatory Area.

I would be grateful for your prompt attention to these matters and look forward to your response.

Sincerely,

Executive Secretary

Annex 4. Letter to Belize

Address (appropriate interlocutor, Foreign Ministry of Belize)

Dear _____:

I am writing at the request of the Contracting Parties of the Northwest Atlantic Fisheries Organization (NAFO) to raise the highest level of concern about six vessels flying the flag of Belize which have been sighted engaged in fishing activities in the NAFO Regulatory Area. The vessels in question are the Olchan, Oyra, Kadri, Okhotino, Ostroe and Ostrovets.

This letter is being sent to you pursuant to the Scheme to Promote Compliance by Non-Contracting Party Vessels with the Conservation and Enforcement Measures Established by NAFO, which was adopted by Contracting Parties to NAFO in 1997. The Scheme calls for measures to be taken against Non-Contracting Party vessels sighted fishing in the NAFO Regulatory Area. A copy of the Scheme, which has been sent to you on previous occasions, is attached.

After several years without sightings of Belizean flagged vessels fishing in the NAFO Regulatory Area, the NAFO Contracting Parties are very concerned to see Belizean fishing vessels harvesting fish stocks in the NAFO Regulatory Area. The NAFO Contracting Parties are deeply concerned that Non-Contracting Parties which allow vessels flying their flag to fish in the NAFO Regulatory Area are undermining the effectiveness of NAFO's conservation and management measures as well as violating their duty to cooperate in the conservation and management of these fish stocks.

I would appreciate receiving any information you may have about the above-mentioned vessels as soon as possible. In addition, on behalf of the NAFO Contracting Parties, I would urge you to ensure that these vessels comply with conservation and management measures in force in areas in which they engage in fishing activities.

I look forward to your prompt response.

Sincerely,

President of NAFO

Annex 5. Letter to Cyprus

Address (appropriate interlocutor, Ministry of Foreign Affairs)

Dear _____:

I am writing at the request of the Contracting Parties of the Northwest Atlantic Fisheries Organization (NAFO) to express concern about six vessels apparently registered in Cyprus which have been sighted engaged in fishing activities in the NAFO Regulatory Area. The vessels in question are the Olchan, Oyra, Kadri, Okhotino, Ostroe and Ostrovets.

This letter is being sent to you pursuant to the Scheme to Promote Compliance by Non-Contracting Party Vessels with the Conservation and Enforcement Measures Established by NAFO, which was adopted by Contracting Parties to NAFO in 1997. The Scheme calls for measures to be taken against Non-Contracting Party vessels sighted fishing in the NAFO Regulatory Area. A copy of the Scheme is attached.

The NAFO Contracting Parties are deeply concerned that Non-Contracting Parties which allow vessels flying their flag to fish in the NAFO Regulatory Area are undermining the effectiveness of NAFO's conservation and management measures as well as violating their duty to cooperate in the conservation and management of these fish stocks.

I would appreciate receiving any information you may have about the above-mentioned vessels, specifically their registration and entitlement to fly the Cypriot flag, as soon as possible. In addition, on behalf of the NAFO Contracting Parties, I would urge you to ensure that these vessels comply with conservation and management measures in force in areas in which they engage in fishing activities.

I look forward to your early response.

Sincerely,

President of NAFO

SECTION VIII

(pages 353 to 421)

Report of the Fisheries Commission and its Subsidiary Bodies (STACTIC), 24th Annual Meeting 16-20 September 2002 Santiago de Compostela, Galicia, Spain

| | | |
|----------|---|-----|
| PART I. | Report of the Fisheries Commission | 355 |
| | 1. Opening Procedures | 355 |
| | 2. Administrative..... | 355 |
| | 3. Conservation and Enforcement Measures | 356 |
| | 4. Conservation of Fish Stocks in the Regulatory Area..... | 360 |
| | 5. Closing Procedures..... | 365 |
| | Annex 1. List of Participants..... | 367 |
| | Annex 2. Agenda | 381 |
| | Annex 3. Terms of Reference – STACTIC Evaluation of the Program for Observers and Satellite Tracking | 383 |
| | Annex 4. Confidential Treatment of Electronic Reports..... | 391 |
| | Annex 5. Amendment of the Conservation and Enforcement Measures re Improvements to the Hail/VMS System..... | 394 |
| | Annex 6. Proposal Relating to the Overhaul of NAFO Conservation and Enforcement Measures | 395 |
| | Annex 7. Amendment of Conservation and Enforcement Measures – Part I.A.5(a) and I.A.5(d) | 396 |
| | Annex 8. Review of Compliance | 397 |
| | Annex 9. Amendment to the Rules of Procedure for the Fisheries Commission for New Terms of Reference of the Standing Committee on International Control (STACTIC) and for a Supportive Role by the Executive Secretary | 402 |
| | Annex 10. Amendment of Conservation and Enforcement Measures – Part I.K | 403 |
| | Annex 11. Terms of Reference for the Working Group on the Allocation of Fishing Rights to Contracting Parties of NAFO..... | 404 |
| | Annex 12. Proposal to Address the Issues Related to Timing of Scientific Advice and Determination of TAC and/or Effort Control Measures for the Shrimp Stocks in Divisions 3L and 3M..... | 405 |
| | Annex 13. Oceanic Redfish Quota..... | 406 |
| | Annex 14. Canadian Proposal for NAFO to Establish a Precautionary TAC for Division 3O Redfish in 2004 | 407 |
| | Annex 15. Quota Table for 2003..... | 408 |
| | Annex 16. Fisheries Commission's Request for Scientific Advice on Management in 2004 of Certain Stocks in Subareas 2,3 and 4.... | 410 |
| PART II. | Report of the Standing Committee on International Control (STACTIC)..... | 415 |
| | 1. Opening of the Meeting..... | 415 |
| | 2. Appointment of Rapporteur..... | 415 |
| | 3. Adoption of Agenda | 415 |

| | |
|---|---------|
| 4. Review of Annual Returns on Infringements | 415 |
| 5. Review of Surveillance and Inspection Reports..... | 415 |
| 6. Review of Operation of the Automated Hail/VMS System | 415 |
| 7. Observer Program and Scientific Requirements; and Review of the NAFO Observer/VMS Scheme | 416 |
| 8. Discussion of the Conservation and Enforcement Measures as the follow-up of STACTIC May 2002 Meeting..... | 417 |
| 9. Discussion of Possible Amendments to the Conservation and Enforcement Measures | 418 |
| 10. Report of the Drafting Group on the Review of the Conservation and Enforcement Measures | 419 |
| 11. Time and Place of the Next Meeting | 419 |
| 12. Other Matters..... | 419 |
| 13. Adoption of Report..... | 420 |
| 14. Adjournment | 420 |
| Annex 1. Agenda | 421 |

PART I

Report of the Fisheries Commission Meeting (FC Doc. 02/24)

24th Annual Meeting, 16-20 September 2002 **Santiago de Compostela, Galicia, Spain**

1. OPENING PROCEDURES (items 1-5 of the Agenda)

1.1 Opening Remarks by the Chairman, D. Swanson (USA)

The meeting was called to order by the Chairman, Dean Swanson (USA), at 0920 hrs on September 17, 2002. Representatives from the following Contracting Parties (CP) were present: Bulgaria, Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, European Union (EU), France (in respect of St. Pierre et Miquelon), Iceland, Japan, Republic of Korea, Latvia, Lithuania, Norway, Poland, Russian Federation, Ukraine, and United States of America (Annex 1).

1.2 Appointment of Rapporteur

Mr. Brian Lester (Canada) was appointed Rapporteur. It was noted that the Northwest Atlantic Fisheries Organization (NAFO) Secretariat would provide the Rapporteur at future meetings of the Fisheries Commission (FC).

1.3 Adoption of Agenda

The provisional agenda was reviewed. The following changes were agreed upon:

- Items 8 and 9 combined under a new Item 9, Report of Standing Committee on International Control (STACTIC), May 2002 (Copenhagen); presentation proposals
- Addition of a new Item 8 "Presentations on Compliance" at the request of Canada and the EU
- Insertion of item 9 a) "review of program for observers and satellite tracking"

1.4 Admission of Observers

Admission of observers was discussed at the meeting of the General Council (GC).

1.5 Publicity

As in past meetings, it was agreed that there would be no public statements until the conclusion of the meeting, at which time a press statement would be released.

2. ADMINISTRATIVE (Item 6)

2.1 Review of Commission Membership

Review of membership was discussed at the opening session of the GC (under provisions of Article XIII.1 of the NAFO Convention). There were no additions to the membership of the FC.

3. CONSERVATION AND ENFORCEMENT MEASURES (Items 7 – 14)

3.1 Report of the Working Group on Precautionary Approach

With respect to Agenda item 7, the Chair of the Working Group on the Precautionary Approach, Mr. Jim Baird (Canada), provided an overview of the June 2002 Working Group (WG) meeting (FC Doc. 02/12). The report recommended further progress on the Precautionary Approach (PA) issue as well as the overall implementation of the PA in NAFO. The WG recommended a joint Fisheries Commission-Scientific Council Working Group on the PA to meet intersessionally to consider the steps to develop plans for long-term management of different fleet sectors of the fisheries. Following discussions within the FC, no action was taken to initiate a joint Fisheries Commission-Scientific Council Working Group on the PA.

3.2 Presentations on Compliance

With respect to Agenda item 8, two presentations on compliance were provided: one by Canada and one by the EU.

- As a follow-up presentation to the one provided in Helsingor at the Special Meeting of NAFO, in January 2002, Canada provided a more detailed presentation “Canadian Assessment of Compliance in the NAFO Regulatory Area (NRA)”. The Canadian assessment was based on the review of observer and other information from 1999-2001. Canada expressed its concern with the increasing trend in non-compliance in six areas and provided specific examples of each. Areas of concern were identified as follows:
 - i) directed fishing-excessive by-catch of moratoria species
 - ii) exceeding allocations/misreporting
 - iii) directed fishing after closure (3L shrimp)
 - iv) increased frequency of mesh size violations
 - v) increase in issuance of citations for apparent infringements
 - vi) non-submission or late submission of observer reports.
- The EU introduced FC Working Paper 02/29, “Compliance in the Regulatory Area” that provided results of European Community inspection activities in 2001 and 2002. Based on this document, the representative of the EU concluded that the level of compliance was satisfactory in the Regulatory Area and that the current situation could not in any case be compared to the one in the early 1990:s. The EU suggested the establishment of a compliance committee whereby CPs would identify incidents of non-compliance and address questions and follow-up action. This was supported by Canada.
- The EU requested that other CPs increase their involvement in inspections in the NRA given the large number of vessels that some CPs have in this area without any inspection presence. Canada shared the concern of the EU. Canada noted that while inspections at-sea and at dockside were important, observers are a very important aspect of monitoring at sea. Denmark (in respect of the Faroe Islands and Greenland) noted that the Faroe Islands had an inspection presence in the NRA for 6 weeks in 2002.

3.3 Report of STACTIC, May 2002 (Copenhagen); Presentation Proposals

With respect to Agenda item 9, the Chair of STACTIC, Mr. David Bevan (Canada), provided a report of the work undertaken by STACTIC at intersessional meetings in May 2002 (FC Doc 02/11) and presented seven proposals for consideration.

a) Review of Program for Observers and Satellite Tracking

Mr. Bevan provided an update on the review of the program for observers and satellite tracking. Following additional work of STACTIC at the Annual Meeting, FC was presented with STACTIC Working Paper (WP) 02/31, "Terms of Reference for a STACTIC Evaluation of the Program for Observers and Satellite Tracking". FC adopted the working paper as provided.

b) Use of Observer Information for Scientific Purposes

Mr. Bevan noted the need for standardization and automation of observer reports and noted that the associated costs would be addressed as part of the evaluation of the review of the observer program as outlined in STACTIC WP 02/31 as noted above.

c) Evaluation of Options to Modify the Observer/Vessel Monitoring System (VMS)

While there was a certain level of support within STACTIC for an Icelandic proposal to modify the observer scheme, the Chair of STACTIC indicated that STACTIC had to resolve issues such as the scope of the pilot project and the method of evaluation before FC could give further consideration. Most CPs supported the recommendation of STACTIC. The Representative of the EU expressed dissatisfaction with the proposed timeline on the pilot project and suggested that it should be accelerated. He noted that the Observer Program was limited in time and that it would end in 2003 unless it was explicitly prolonged by the Fisheries Commission. In view of the fact that the Fisheries Commission had endorsed the recommendation of STACTIC to prolong the current program for one more year (Section 7b of the September STACTIC Report), he considered it essential to launch the pilot project as soon as possible so that it could run in parallel with the current Scheme during 2003 and that the results could be fed into the ongoing review process.

The EU suggestion that STACTIC should meet as soon as possible to further develop the technical elements of the pilot project, including the scope and evaluation, was supported by several CPs.

The Representative of Canada responded to the EU intervention indicating that Part VI of the NAFO Conservation and Enforcement Measures indicates that the elements of this program are subject to review and revision, but that the continuation of the observer program was not in question.

Following discussion at heads of delegation, the FC agreed that a Working Group of STACTIC would meet in November 2002 to develop the scope and evaluation criteria for the pilot project. Section 11 of the STACTIC Report says, *inter alia*, that STACTIC [will] meet intersessionally in June to review the Conservation and Enforcement Measures, the scope and evaluation criteria of the Pilot Project, to review the observer and VMS Scheme and initiate work on a compliance report.

The Representative of Iceland expressed disappointment that its proposal on the observer pilot project did not go forward this year and noted that Iceland would continue to object to 100% observer coverage.

d) Confidential Treatment of Electronic Reports and Messages and Improvements to Hail/VMS Systems

The Chair submitted two working papers regarding the confidential treatment of electronic reports and messages and improvements to the hail /VMS systems. The proposals in STACTIC WP 01/15 (revised) and STACTIC WP 02/5 were adopted.

e) Modernization of the Conservation and Enforcement Measures

The Chair provided STACTIC WP 02/30 (revised) "Proposal by the European Community Relating to the Overhaul of NAFO Conservation Measures", which outlines the process for finalizing the amendments. The proposal was adopted.

f) Control/Avoidance of Incidental Catches

The FC approved two elements of STACTIC WP 02/15 (i.e. amended definition of the directed fishery and amended method for calculating by-catch). Several CPs expressed concerns with the two separate by-catch limits as set out in the WP and it was generally agreed that further work is required to determine if the percentage of by-catch limits need to be reduced. The Chair of the FC referred the question of the percentage of by-catch limits to STACTIC for further review. The current by-catch limits will remain in place.

g) Compliance Issues (Rules of Procedure of the Fisheries Commission)

STACTIC WP 02/14 (revised) "Review of Compliance" and STACTIC WP 02/8 "Amendment to the Rules of Procedure for the Fisheries Commission – For New Terms of Reference" were prepared and agreed to by STACTIC at the intersessional meeting held in May. These working papers were adopted.

3.4 Review of the Provisions on Chartering Operations in the NRA

With respect to Agenda item 10, as requested at the Special Meeting in Helsingor, the NAFO Secretariat prepared two working papers - FC WP 02/23 "Overview of Charter Arrangements (2000-2002)" and FC WP 02/24 "Overview of Charter Compliance with Part I.B.7 of the Conservation and Enforcement Measures".

While some CPs expressed opposition to the continuation of chartering operations in the NRA, the majority suggested the continuation of the current arrangements for one more year. The FC agreed to extend Part I.B. of the Conservation and Enforcement Measures for 2003. The FC also adopted FC WP 02/36 that amended Part I.K., paragraph 9 of the Conservation and Enforcement Measures on the fishing vessel limit in the Division 3L shrimp fishery. The amended Part I.K. will allow each CP to have one vessel fishing for shrimp in Division 3L for each CP 3L shrimp allocation they are fishing. Under the former wording, CPs were limited to only one vessel fishing shrimp in 3L at a time no matter how many CP allocations of 3L shrimp it was harvesting.

3.5 Increase of Inspection Presence in the NRA

With respect to Agenda item 11, the EU and Canada expressed concern that outside of a limited presence by Denmark (in respect of the Faroe Islands and Greenland) (6 weeks) in 2002, they continue to be the only two CPs with an inspection presence in the NRA. Both parties expressed that it was inappropriate that inspections were the responsibility of only two of the 16 CPs and that these costs are being borne by just the two CPs. It was noted that some CPs are not meeting their obligations for a mandatory inspection presence when they have more than 15 vessels operating in the NRA. The EU noted that some CPs are requesting a reduction in observer coverage but this must be linked with increased inspection capacity. Canada recommended that all CPs should have a designated inspector to respond to compliance issues.

Denmark (in respect of the Faroe Islands and Greenland) indicated that the Faroe Islands would continue inspection presence in the NRA in 2003. Norway committed to an inspection presence if more than 15 of its vessels were fishing in the NRA.

3.6 Quota Allocation Issues

With respect to Agenda item 12, following discussions in which several CPs expressed a desire to look at the issue of allocations, the FC adopted FC WP 02/30 (revised), which provided terms of reference for a working group on the allocation of fishing rights to Contracting Parties of NAFO. It was subsequently decided that the working group would be reconvened March 26-28, 2003 in order to report to the FC at its 25th Annual Meeting.

3.7 Report of STACTIC at the Annual Meeting

With respect to Agenda item 13, the Chair of STACTIC provided an overview of the STACTIC meetings at the 24th Annual Meeting and submitted the Committee's report. Following discussion and concurrence on the time and place of the meeting of the Commission's WG on Allocations and on the STACTIC WG on the Pilot Project on Observers, the report was adopted.

3.8 Canadian Management Measures for 2J3KL Cod for 2002

With respect to Agenda item 14, a number of CPs expressed disappointment with Canada's decision to permit a commercial harvest of 5,600t of 2J3KL cod within Canadian waters in 2002. They stressed the need of consistent and coherent management measures for the entire area of distribution of the stock (ie both inside and outside the Canadian EEZ). In particular, they held that such a unilateral decision disregards the scientific recommendations for the stock and retards any possible rebuilding of the stock, that it undermines the moratoria established by NAFO in International waters, that not less than 603 violations occurred in 2002 inter alia leading to an overshoot of the unilateral quota and that according to Canada's own Scientists, a quota of 200 tonnes would be largely sufficient for scientific purposes. In view of this situation, Contracting Parties urged Canada to review its position in this regard. The Representative of Canada expressed the right for Canada to establish a TAC within its territorial waters and reiterated points from its letter to NAFO, GF 02/567, that stated that this fishery was tightly controlled, and for inshore small boats only. Canada indicated that there would be a full review of this stock before a decision is taken for 2003.

4. CONSERVATION OF FISH STOCKS IN THE REGULATORY AREA (Items 15-19)

4.1 Summary of Scientific Advice by the Scientific Council (SC)

With respect to Agenda item 15a, the Chair of the SC (Dr. Ralph Mayo, USA) provided a stock by stock overview of SC Advice/Recommendations as per SCS DC. 02/19.

Recommendations for one year - 2003 were provided for four stocks:

| Species | Recommendation for 2003 |
|------------------------------|---|
| Redfish 3M | 3,000-5,000t, by-catch of juvenile redfish at lowest possible level |
| American plaice 3LNO | no directed fishery, lowest possible by-catch |
| Greenland halibut 2 + 3KLMNO | catches not to exceed average level of 2000 and 2001 level of 36,000t, reduced harvest of juveniles |
| Capelin 3NO | no directed fishery |

The SC also provided two-year (2003/2004) advice for five other stocks:

| Species | Recommendation for 2003/2004 |
|----------------------------|---|
| Cod 3M | no directed fishery, lowest possible by-catch |
| American plaice 3M | no directed fishery, lowest possible by-catch |
| Witch 3NO | no directed fishery, lowest possible by-catch |
| Yellowtail flounder 3LNO | not to exceed 14,500t |
| Squid (<i>Illex</i>) 3+4 | 19,000 - 34,000t |

SC noted that there was no significant change in three stocks (cod 3NO, redfish 3LN and witch 2J3KL) for which it provided two-year advice in 2001 and thus did not provide updated/revised advice for 2003.

The Chair of the SC also presented an overview of responses to special requests (as per NAFO SCS Doc. 02/19) including: the relationship between 3M witch and witch in 2J+3KL; distribution of shrimp in Divisions 3LNO and in 3M; and pelagic *Sebastes mentella* in NAFO Subareas 1-3 and adjacent to the ICES area.

SC concluded that witch in 3M in depths less than 730m do not appear to be linked with witch in 2J+3KL. Witch in the deep waters of the Flemish Pass (>730m) are likely to be more closely associated with witch along the slope of the Grand Banks in Division 3L.

SC provided the relative seasonal distribution for 3LNO shrimp biomass as follows:

| Percentage of 3LNO shrimp biomass by division | Percentage of divisional biomass in the NRA |
|---|---|
| 90% of biomass is in 3L | 11-30% of 3L divisional biomass occurs in the NRA |
| <10% of biomass is in 3N | 90% of 3N divisional biomass occurs in the NRA |
| 1% of biomass is in 3O | |

SC noted that age 2 shrimp were generally more abundant in depths <140 fathoms in Division 3M in all months. Multi-year spawners are more abundant in depths >140 fathoms in all months except March and April when they are more abundant in the shallower waters of Division 3M.

b) Decadal Trends in Environmental Conditions in the Northwest Atlantic

With respect to Agenda item 15b, Dr. M. Stein (EU) provided information on decadal trends in environmental conditions in the Northwest Atlantic that indicated relatively warm conditions in the 1950s and 1960s to a region in the 1970s to 1990s where temperatures were relatively cool. Dr. Stein provided a presentation on *Ocean Climatic Diversity in NAFO Waters*, which concluded that during the last three decades, the decreasing trends in temperatures have resulted in a decreased abundance of groundfish and an increased abundance of shellfish.

4.2 Management and Technical Measures for Fish Stocks in the Regulatory Area, 2003
(Agenda item 16)

16.1 Cod 3M

Canada endorsed the SC recommendation that there be no directed fishery for 3M cod and that by-catch be kept at the lowest possible level for 2003 and 2004. Denmark (in respect of the Faroe Islands and Greenland) concurred but requested that CPs consider the possibility of a limited 3M cod fishery for science purposes. The FC agreed to extend the current moratorium for 2003 and 2004.

16.2 Redfish 3M

Latvia noted that there had been no new developments in the 3M redfish fishery and suggested that the status quo arrangement with a 5,000t TAC be kept in place for 2003. Lithuania and the EU supported this. The FC agreed to extend the current management measures for 2003.

16.3 American Plaice 3M

Canada endorsed the SC advice for 2003 and 2004 that there be no directed fishery for 3M American Plaice and that by-catch be kept at the lowest possible level. The EU supported the moratoria but suggested it should be for 2003 only. The US noted that in circumstances where stocks are under moratoria, it is more appropriate to use a multi-year approach. The FC agreed to follow the SC recommendation and extended the moratorium for 2003 and 2004.

16.4 Shrimp in Division 3M

There was considerable discussion on the management measures for shrimp in Division 3M and on the timing of SC advice on this stock. Several CPs agreed with the suggestion from the Representative from Estonia that the current effort limitation scheme should be maintained in the absence of any new information on this stock. It was noted that SC would review the shrimp stocks only in November 2002 but that a decision should be taken at the annual meeting to avoid a special meeting of FC to discuss shrimp. Iceland and the US indicated their concern with a continuation of an effort allocation system for managing this fishery.

Most CPs agreed that if the SC advice was relatively the similar to last year, the current system should be maintained, but if it changed significantly, a special meeting of the FC

should be held or other means applied to change the decision taken. Canada submitted a proposal FC WP 02/41 to address issues related to the timing of the SC advice and determination of the TAC and/or effort control measures for this stock for 2003. Following discussions, FC WP 02/41 (revised) was adopted. The measures in place for 2002 will be rolled over for 2003, subject to the conditions and process outlined in FC WP 02/41 (revised).

4.3 Management and Technical Measures for Fish Stocks Straddling National Fishing Limits, 2003 (Agenda item 17)

17.1 Cod in Divisions 3NO

As SC advice from 2001 was for no directed fishery and by-catches at the lowest possible level for 2002 and 2003, the FC agreed to continue the current moratorium for 2003.

17.2 Redfish in Divisions 3LN

The SC advice for 2002 and 2003 was for no directed fishery and by-catches at the lowest possible level. The FC agreed to continue the current moratorium for 2003.

17.3 American Plaice in Divisions 3LNO

Canada noted the importance of this stock for Canadian fishermen noting that the SC recommendation must be viewed carefully. The EU noted larger increases of this stock in Divisions 3NO in recent years that could account for increased levels of by-catch.

The FC agreed to follow the SC advice of no directed fishery and by-catches at the lowest possible level. The current moratorium will continue for 2003.

17.4 Yellowtail Flounder in Divisions 3LNO

While the SC provided positive advice that the TAC for this stock could be increased, the EU expressed concern that, given the high by-catches of American plaice in this fishery, it did not want the recovery of American plaice to be put in jeopardy. Canada responded to the EU concerns providing a detailed outline of measures it had taken to ensure by-catches of American plaice at the lowest possible level in this fishery.

The US tabled FC WP 02/31, which proposed a 1,000t allocation for the US if the TAC for this stock increased, maintaining that, in light of a number of considerations, it was time the US had an opportunity to fish in the NRA. This proposal was later withdrawn.

The Scientific Council advice was for a TAC of 14,500t for 2003 and 2004. Following discussion, the FC agreed to establish the TAC for 2003 consistent with this advice.

17.5 Witch flounder in Divisions 3NO

The EU recommendation to follow the SC advice for no directed fishery and by-catches at the lowest possible level was supported by Canada. The FC agreed to continue the current moratorium for 2003.

17.6 Capelin in Divisions 3NO

The Latvian proposal to follow the SC advice for no directed fishery and by-catches at the lowest possible level was agreed to by the FC. The current moratorium will continue for 2003.

17.7 Squid (Illex) in Subareas 3 and 4

As the SC could not provide advice for this stock, Latvia proposed that the 34,000t TAC be maintained with the same footnotes as indicated in the quota table for 2002. The FC agreed to establish the TAC at 34,000t for 2003. The Protocol for Determining the Productivity of the Short-finned Squid Resource in NAFO Subareas 3+4, FC WP 00/10, will continue to be applicable for 2003.

17.8 Shrimp in Divisions 3LNO

There was considerable discussion on the management measures for this stock and on the timing of SC advice on this stock. Several CPs agreed with the Latvian proposal that the current measures should be maintained given that there was no new information on this stock and given that SC will review it only in November 2002.

Most CPs agreed that if the SC advice was relatively similar to last year, the current system should be maintained, but if it changed significantly, a special meeting of the FC should be held or other means applied to change the decision taken. The Canadian proposal FC WP 02/41 (revised) that was adopted for 3M shrimp to address the same issues of timing of the SC advice and determination of the TAC and/or effort control measures, also included measures for 3LNO shrimp.

Denmark (in respect of the Faroe Islands and Greenland) expressed its continued opposition to the current sharing of the portion in the NAFO Regulatory Area. Denmark (in respect of the Faroe Islands and Greenland) submitted a proposal on a new sharing arrangement, FC WP 02/40, for consideration. This proposal was not adopted.

The FC agreed that the measures in place for 2002 would be rolled over for 2003, subject to the conditions and process outlined in FC WP 02/41 (revised). The Representative of Denmark (in respect of the Faroe Islands and Greenland) warned that this neglect of the legitimate interests of Denmark (in respect of the Faroe Islands and Greenland) would most likely lead to an objection to this measure.

17.9 Greenland Halibut in Divisions 3LMNO

The Representative of the European Union expressed the view that the SC advice for this stock lacked clarity and that it did not have the scientific rigour of previous reports. While Representatives for Latvia, Estonia, Japan and Russia agreed a reduction in TAC should be considered, they were not willing to accept an 8,000t reduction.

The Representative of Canada noted his awareness of the importance of this stock to other CPs, but expressed concern that three of four indices have shown that this stock has declined since 1999. He also noted concern with high catches of juveniles in this fishery and expressed his support to follow the SC advice for a TAC of 36,000t for Subarea 2+3 for 2003.

The Representative of Denmark (in respect of the Faroe Islands and Greenland) expressed concern over the footnote on the “Others quota” that states that no more than 40% of the quota may be fished by the first of May and 80% by the first of October and suggested that this be deleted or amended. The Representative of Latvia shared Denmark's (in respect of the Faroe Islands and Greenland) concerns but suggested that the footnote be amended to reduce the interruption in the prosecution of this fishery that was caused by splitting the quota essentially into three separate periods.

Following discussions on the TAC level for this stock, the FC decided to establish the 2+3 quota at 42,000t for 2003. This established the quota for Divisions 3LMNO at 31,122t for 2003. The FC also agreed to amend the footnote of the “Others quota” to limit harvests to only two separate periods and the footnote will now stipulate that no more than 60% of this quota may be fished before May 1, 2003.

17.10 Cod and Witch Flounder in Divisions 2J3KL

The FC agreed to continue the current moratoria on both of these stocks for 2003.

17.11 Pelagic *Sebastes Mentella* (Oceanic Redfish) in the NAFO Convention Area

The Report from the Ad hoc Working Group on Management of Oceanic Redfish, NAFO/FC Doc. 02/13, from the meeting held in June 2002 recommended that the FC accept WG W.P. 02/5 (revision 4), which provided a 5,000t TAC for NAFO CPs that were not NEAFC members. The report also noted that the Representative of Lithuania was of the opinion that NAFO should manage that portion of the stock found in the NAFO Convention Area and that the NAFO quota should be higher than 5,000t.

Representatives of the EU, Canada, Russia and Denmark (in respect of the Faroe Islands and Greenland) supported the WG report. The Representative of Lithuania repeated the concerns expressed that he had in the WG report and proposed that the TAC for non-NEAFC members should be 15,000t. France, Latvia and the Ukraine supported the Lithuanian position that the decision should be one taken by NAFO and not one guided by NEAFCs decision.

Following discussions, the FC adopted the paper FC WP 02/43 (revised) providing a quota of 7,500t for Oceanic Redfish in NAFO Subarea 2 and Divisions 1F and 3K for NAFO CPs that are not members of NEAFC and a quota of 25,000t for the CPs that are members of NEAFC.

After discussions, Contracting Parties agreed on the Quota Table for 2003 (Annex

17.12 Management of Currently Unregulated Stocks

3O Redfish

The Representative of Canada introduced a proposal, FC WP 02/27 (revised), for a precautionary TAC for 3O redfish in the range of 13,000t. He noted concern with the current exploitation rate of this slow growing stock and suggested that SC be asked to provide advice on reference points and conservation measures for this stock for future years.

The Representative of the EU noted that with the exception of large catches in 2001, the fishery had been relatively stable and did not see the need for a TAC right away. He suggested that the FC should ask for more formal science advice with a view for a proposed TAC for 2004, but not before obtaining SC advice.

Following discussions, the FC agreed to adopt the process set forth in FC WP 02/27 (revision 3) that requests SC to provide a full assessment of 3O redbfish in advance of the 2003 Annual Meeting.

Thorny Skates

The Representative of the US tabled FC WP 02/33, which sought to establish catch limits (6,500t) for thorny skates in Divisions 3LNO while awaiting SC advice for this stock. Latvia noted that there was a need for SC advice before establishing a TAC. FC WP 02/33 was revised but as there was no consensus to proceed with a TAC for 2003, it was withdrawn.

4.4 Formulation of Request to the Scientific Council for Scientific Advice on the Management of Fish Stocks in 2004

With respect to Agenda item 18, the FC's Request for Scientific Advice on Management in 2004 was outlined in FC WP 02/39. Following discussions, it was decided that prior to the next annual meeting, SC consider options to provide annual advice as regards to shrimp in Divisions 3LNO and 3M in advance of annual meetings. With this addition, FC WP 02/39 (revised) was adopted.

4.5 Transfer of Quotas Between Contracting Parties

With respect to Agenda item 19, the NAFO Secretariat provided a list of quota transfers between NAFO CPs from 1982 to present in FC WP 02/22. There were no comments from any CP.

5. CLOSING PROCEDURE (Items 20-22)

5.1 Time and Place of the Next Meeting

With respect to Agenda item 20, the time and place of the next meeting was to be established by General Council.

5.2 Other Business

Under Agenda item 21, it was agreed that four intersessional meetings would be held. The dates and places determined by Heads of Delegation are as follows:

- | | |
|--|---|
| 1. STACTIC WG on Pilot Project | Nov. 18-20, 2002 London, UK |
| 2. Fisheries Commission WG on Allocations | March 26-28, 2003 Florida, USA |
| 3. STACTIC WG to overhaul the Conservation and Enforcement Measures | before June 2003 STACTIC meeting – preferably by teleconference |

4. STACTIC Intersessional Meeting

June 16-20, 2003
Copenhagen, Denmark

5.3 Adjournment

With respect to Agenda item 22, the Chair thanked the NAFO Secretariat, Gordon Moulton and Brian Lester, for their assistance. The meeting was adjourned at 1020 hrs on September 20, 2002.

Annex 1. List of Participants

BULGARIA

Head of Delegation

K. Kodzhabashev, First Counsellor, Embassy of the Republic of Bulgaria, trav. Santa Maria Magdalena, 15, Madrid 28016, Spain
Phone: +34 913 455 761 – Fax: +34 913 456 651 – E-mail: kkodzhabashev@yahoo.es

CANADA

Head of Delegation

P. S. Chamut, Assistant Deputy Minister, Dept. of Fisheries and Oceans, Fisheries Management, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 9864 – Fax: +613 990 9557

Representatives

P. Chamut (see address above)
J. Angel, Executive Director, Canadian Association of Prawn Producers, P. O. Box 1C1, Head of St. Margarets Bay, N.S. B0J 1R0
Phone: +902 826 7765 - Fax: +902 826 7065 - E-mail: jangel@hfx.eastlink.ca
E. McCurdy, President, Fishermen, Food and Allied Workers Union/CAW, P. O. Box 10, St. John's, Newfoundland A1C 5H5
Phone: +709 576 7276 - Fax: +709 576 1962

Advisers

C. Allen, Senior Advisor, Fisheries, Environment & Biodiversity Science Directorate, Dept. of Fisheries and Oceans, 200 Kent Street, 12th Floor, Ottawa, Ontario K1A 0E6
Phone: +613 990 0105 - Fax: +613 954 0807 – E-mail: allenc@dfo-mpo.gc.ca
R. Andrews, Director, Government and Industry Relations, Fishery Products International, 70 O'Leary Ave., P. O. Box 550, St. John's, Newfoundland A1C 5L1
Phone: +709 570 0115 – Fax: +709 570 0436 – E-mail: randrews@fpil.com
D. B. Atkinson, Regional Director, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 2027 - Fax: +709 772 6100 - E-mail: atkinsonb@dfo-mpo.gc.ca
J. W. Baird, Regional Director, Fisheries Management, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 4543 - Fax: +709 772 2046 - E-mail: bairdj@dfo-mpo.gc.ca
G. Beaupré, Director-General, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent Street, 13th Floor, Stn 13-159, Ottawa, Ontario K1A 0E6
Phone: +613 993 1873 - Fax: +613 993 5995 - E-mail: beaupreg@dfo-mpo.gc.ca
D. Bevan, Director-General, Resource Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 6794 – Fax +613 954 1407 – E-mail: bevand@dfo-mpo.gc.ca
C. Bonnell, Director, Fisheries and Sealing Div., Dept. of Sustainable Development, P. O. Box 1000, Station 1196, Iqaluit, Nunavut X0A 0H0
Phone: +867 975 5968 – Fax: +867 975 5980 – E-mail: cbonnell@gov.nu.ca

N. Bouffard, Director, Atlantic Div., International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
 Phone: +613 993 1860 - Fax: +613 993 5995 - E-mail: bouffardn@dfo-mpo.gc.ca

W. R. Bowering, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 - Fax: +709 772 6100 - E-mail: boweringr@dfo-mpo.gc.ca

B. Brodie, Science, Oceans and Environment, DFO Newfoundland Region, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 3288 - Fax: +709 772 6100 - E-mail: brodieb@dfo-mpo.gc.ca

B. Chapman, Executive Director, Groundfish Enterprise Allocation Council, 1388 River Road, Manotick, Ontario K4M 1B4
 Phone: +613 692 8249 - Fax: +613 692 8250 - E-mail: bchapman@sympatico.ca

T. Dikranian, Team Leader, Fisheries Mgmt., Communications, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
 Phone: +613 993 7356 - Fax: +613 990 1866 - E-mail: dikraniant@dfo-mpo.gc.ca

T. Dooley, Director, Resource Policy, Dept. of Fisheries and Aquaculture, P. O. Box 8700, St. John's, Newfoundland A1B 4J6
 Phone: +709 729 0335 - Fax: +709 729 6082 - E-mail - tdooley@matl.gov.nf.ca

A. Dudoit, Ambassador, Embassy of Canada, Núñez de Balboa, 35, 28001 Madrid, Spain
 Phone: +34 91 423 32 03 - Fax: +34 91 423 32 51 - E-mail: alain.dudoit@dfait-maeci.gc.ca

J. Dwyer, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 8831 - Fax: +709 772 2046 - E-mail: dwyerji@dfo-mpo.gc.ca

W. Evans, Supervisor, Offshore Surveillance, Conservation and Protection, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 4412 - Fax: +709 772 5983 - E-mail: evansw@dfo-mpo.gc.ca

W. Follett, Regional Director General, Newfoundland and Labrador Region, Dept. of Fisheries, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 4417 - Fax: +709 772 6306 - E-mail: follettw@dfo-mpo.gc.ca

D. Forsythe, Counsellor (Fisheries and Environment), Mission of Canada to the European Communities, Avenue de Tervuren, 2, Brussels 1040, Belgium
 Phone: +32 2 741 0688 - Fax: +32 2 741 0629 - E-mail: douglas.forsythe@dfait-maeci.gc.ca

S. Horsey, Finance and Administration Advisor, International Affairs, Dept. of Fisheries and Oceans, 200 Kent Street, Stn. 13159, Ottawa, Ontario K1A 0E6
 Phone: +613 993 1898 - Fax: +613 993 5995 - E-mail: horseys@dfo-mpo.gc.ca

D. Kulka, Head, Resource Sampling - Aquatic Resources, Science, Oceans and Environment, Nfld. Region, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 2064 - Fax: +709 772 5469 - E-mail: kulkad@dfo-mpo.gc.ca

B. Lester, Resource Management Officer-Groundfish, Resource Management - Atlantic, Fisheries Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
 Phone: +613 990 0090 - Fax: +613 990 7051 - E-mail: lesterb@dfo-mpo.gc.ca

P. McGuinness, Vice-President, Fisheries Council of Canada, 38 Antares Drive, Suite 110, Nepean, Ontario K2E 7V2
 Phone: +613 727 7450 - Fax: +613 727 7453 - E-mail: pmcguinness@fisheriescouncil.org

B. J. McNamara, President, Newfoundland Resources Ltd., 90 O'Leary Avenue, St. John's, Nfld. A1B 4G1
 Phone: +709 579 7676 - Fax: +709 579 7668 - E-mail: nrl@nfld.com

J. Morgan, Science, Ocean and Environment Branch, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
 Phone: +709 772 2261 - Fax: +709 772 4105 - E-mail: morganj@dfo-mpo.gc.ca

- A. O'Rielly, President, Fisheries Association of Newfoundland and Labrador Ltd., P. O. Box 8900, St. John's, Newfoundland A1B 3R9
Phone: +709 726 7223 – Fax: +709 754 3339 – E-mail: aoielli@nfld.com
- G. Peacock, Executive Director, Federal/Provincial Relations, Maritimes Region, Dept. of Fisheries and Oceans, 176 Portland St., P. O. Box 1035, Dartmouth, Nova Scotia B2Y 4T3
Phone: +902 426 3625 – Fax: +902 426 5034 – E-mail: peacockg@mar.dfo-mpo.gc.ca
- G. Reid, Minister of Fisheries and Aquaculture, Government of Newfoundland and Labrador, P. O. Box 8700, Petten Bldg., St. John's, Newfoundland A1B 4J6
Phone: +709 729 3705 – Fax: +709 729 0360 – E-mail: greid@gov.nf.ca
- M. Samson, Deputy Minister, Department of Fisheries and Aquaculture, Government of Newfoundland and Labrador, P. O. Box 8700, St. John's, Newfoundland A1B 4J6
Phone: +709 729 3707 – Fax: +709 729 0360 – E-mail: msamson@mail.gov.nf.ca
- A. Saunders, Legal Officer, Oceans, Environment and Economic Law Division, Dept. of Foreign Affairs and International Trade, 125 Sussex Drive, Ottawa, Ontario K1A 0G2
Phone: +613 996 2643 - Fax: +613 992 6483 - E-mail: allison.saunders@dfait-maeci.gc.ca
- M. Short, Special Advisor, NAFO, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 6369, Cell +709 682 3110 – E-mail: shortm@dfo-mpo.gc.ca
- D. Sproule, Department of Foreign Affairs and International Trade, 125 Sussex Drive, Ottawa, Ontario K1A 0G2
Phone: +613 992 2104 - E-mail: david.sproule@dfait-maeci.gc.ca
- D. Stansbury, Science, Ocean and Environment Branch, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-0559 - Fax: +709-772-4105 – E-mail: stansburyd@dfo-mpo.gc.ca
- P. Steele, Director, Enforcement Br., Conservation and Protection, Fisheries Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6
Phone: +613 990 0109 – Fax +613 941 2718 – E-mail: steelep@dfo-mpo.gc.ca
- R. Steinbock, Senior Advisor, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
Phone: +613 993 1836 - Fax: +613 993 5995 - E-mail: steinbob@dfo-mpo.gc.ca
- R. Stirling, President, Seafood Producers Association of Nova Scotia, P. O. Box 991, Dartmouth, N. S. B2Y 3Z6
Phone: +902 463 7790 – Fax: +902 469 8294 – E-mail: spans@ns.sympatico.ca
- L. Strowbridge, Director, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 8021 - Fax: +709 772 2046 - E-mail: strowbridgel@dfo-mpo.gc.ca
- R. Stubbart, Embassy of Canada, Núñez de Balboa, 35, 28001 Madrid, Spain
Phone: +34 91 423 32 03 – Fax: +34 91 423 32 51 – E-mail: russell.stubbart@dfait-maeci.gc.ca
- J. Ward, CEO, Baffin Fisheries Coalition, 189 Water Street, St. John's, Newfoundland A1C 1B4
Phone: +709 726 6328 – Fax: +709 726 6355 – E-mail: jvward@roadrunner.nf.net
- B. Whelan, Head, NAFO Unit, Conservation and Protection, Fisheries Management, Nfld. Region, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 0928 – Fax: +709 772 2046 – E-mail: whelanb@dfo-mpo.gc.ca
- F. Woodman, Chairman, Fisheries Resource Conservation Council, P. O. Box 2001, Station D, Ottawa, Ontario K1P 5W3
Phone: +613 998 0433 - Fax: +613 998 1146 - E-mail: costah@dfo-mpo.gc.ca

CUBA**Head of Delegation**

E. Oltuski, Vice-Minister, Ministerio de la Industria Pesquera, 5^{ta} Avenue y 246, Sta Fe, Barlovento
 Phone: +537 297008 – Fax: +537 246297 –E-mail: oltuski@fishnavy.inf.cu

Alternate

V. E. Sardá Espinosa, Ministerio de la Industria Pesquera, 5^{ta} Avenue y 246, Sta Fe, Barlovento,
 Ciudad de la Habana
 Phone: +537 297034 - Fax: +537 249168 - E-mail: abogados@fishnavy.inf.cu

Advisers

R. Cabrera, Ministerio de la Industria Pesquera, 5^{ta} Ave y 246, Playa Barlovento, Ciudad de la
 Habana
 Phone: +537 209 7997 – Fax: +537 204 9168 – E-mail: rinter@fishnavy.inf.cu
 H. Hernández Reinoso, Cónsul General de la Republica de Cuba, Dr. Teijeiro, 5-4.o, 15701 Santiago
 de Compostela, Spain
 Phone: +34 981 57 61 43 – Fax: +34 981 57 61 68
 O. Egea Alvarez, Pescafina, S.A., Feraz, 50, planta 5^a, 28008 Madrid, Spain
 Phone: +53 7 95 11 40/41- Fax: +53 7 95 11 42 – E-mail: oegea@pescafina.com

DENMARK (IN RESPECT OF FAROES AND GREENLAND)**Head of Delegation**

E. Rosing, Head of Unit, Dept. of Industry, Greenland Home Rule, Box 269, 3900 Nuuk, Greenland
 Phone: +299 34 53 32 – Fax: +299 32 47 04 – E-mail: emanuel@gh.gl

Alternate

A. Kristiansen, Ministry of Fisheries and Maritime Affairs, Yviri við Strond 17, P. O. Box 347, FO
 -110 Torshavn, Faroe Islands
 Phone: + 298 35 30 30 - Fax: +298 35 30 37 - E-mail: andrask@fisk.fo

Advisers

J. Joensen, Manager, PF. Lidin, FO-410 Kollafjordur, Faroe Islands
 Phone: +298 421448 – Fax: +298 421584 – E-mail: lidin@post.olivant.fo
 M. Kruse, Vaktar-og Bjargingartaenastan, P. O. Box 347, FR-110 Torshavn, Faroe Islands
 Phone: +298 311065 – Fax: +298 313981 – E-mail: yb@yb.fo
 E. Lemche, Head of Representation, Gronlands Hjemmestyre, Pilestraede 52, Box 2151, DK-1016
 Copenhagen K, Denmark
 Phone: +45 33 69 34 35 - Fax: +45 33 69 34 01 - E-mail: el@ghsdk.dk
 L. D. Madsen, Head of Section, Dept. of Industry, Greenland Home Rule, Box 269, 3900 Nuuk,
 Greenland
 Phone: +299 34 53 29 - Fax: +299 32 47 04 - E-mail: ldm@gh.gl
 M. T. Nedergaard, Fiskerilicensinspektor, Head of Unit, Gronlands Fiskerilicenskontrol, Postbox
 501, DK-3900 Nuuk, Greenland
 Phone: +299 345377 - Fax: +299 323235 - E-mail: mads@gh.gl

A. Nicolajsen, Fiskirannsóknarstovan, Noatun 1, P. O. Box 3051, FR-110 Torshavn, Faroe Islands
 Phone: +298 31 5092 - Fax: +298 31 8264 - E-mail: arninic@frs.fo
 J. Norðbúð, Foroya Reidarafelag, Box 361, FO-101 Torshavn, Faroe Islands
 Phone: +298 311800 – Fax: +298 320380 – E-mail: shipown@post.olivant.fo
 A. Olafsson, Udenrigsministeriet, Asiatisk Plads 2, DK-1448 Copenhagen, Denmark
 Phone: +45 33 920341 – Fax: +45 33 920177 – E-mail: arnola@um.dk
 J. H. Toftum, Ministry of Fisheries, P. O. Box 64, FO-100 Torshavn, Faroe Islands
 Phone: +298 353030 - Fax: +298 353035 - E-mail: jenst@fisk.fl.fo

ESTONIA

Head of Delegation

A. Soome, Director General, Fishery Resources Dept., Ministry of the Environment, Ravala 8, 10143 Tallinn
 Phone: +372 6604 543 - Fax: +372 6604 599 - E-mail: ain.soome@ekm.envir.ee

Representative

A. Soome (see address above)

Advisers

T. Roose, Deputy Director General, Estonian Environmental Inspectorate, Kopli 76, 10416 Tallinn
 Phone: +3726962233 – Fax: +3726962237, E-mail: tarvo.roose@kki.ee
 V. Ruul, General Manager, Permare Ltd., Riiütlil14/Nikolai 7, 80011 Pärnu
 Phone: +372 44 70303 / 70301 – Fax: +372 44 70302 – E-mail: permare@hot.ee
 T. Saat, Director, Estonian Marine Institute, University of Tartu, 18b Viljandi Road, 11216, Tallinn
 Phone: +372 6281 570 - Fax: +372 6281 563 - E-mail: tsaat@sea.ee
 T. Sild, Riiütlil 4, 10130 Tallinn
 Phone: +372 6 996611 – Fax: +372 6 442889 – E-mail: tarmo.sild@heta.ee
 A. Sõna, Manager, Reyktal Ltd., Veerenni 39, 10138 Tallinn
 Phone: +372 6276 552 - Fax: +372 6276 555 - E-mail: arne@reyktal.ee
 T. Tamme, c/o Alvini Adroraadiburou, Roosikrantsi 2, 10119 Tallinn
 Phone: +372 6110810 - Fax: +372 6110811 - E-mail: toomas@alvinab.ee
 A. Tuvi, Senior Officer, Fishery Resources Dept., Ministry of the Environment, Ravala 8, 10143 Tallinn
 Phone: +372 6604 544 - Fax: +372 6604 599 - E-mail: aare.tuvi@ekm.envir.ee
 L. Vaarja, Counsellor, Ministry of Environment, Ravala 8, 10143 Tallinn
 Phone: +372 5043 002 - Fax: +372 6604 599 – E-mail: laurivaarja@hot.ee
 O. Ynvgason, Managing Director, Icelandic Export Center Ltd., Sidumuli 34, P. O. Box 1764, 121 Reykjavik, Iceland
 Phone: +354 588 2600 – Fax: +354 588 7610 – E-mail: ottar@iec.is

EUROPEAN UNION

Head of Delegation

J. Spencer, Head of Unit, International and Regional Arrangements, European Commission, Fisheries Directorate General, 200 Rue de la Loi/Wetstraat, B-1049 Brussels, Belgium
 Phone: +32 2 295 6858 - Fax: +32 2 295 5700 – E-mail: edward-john.spencer@cec.eu.int

Advisers

S. Ekwall, Administrator, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium

Phone: +32 2 299 6907 - Fax: +32 2 295 5700 - E-mail: Staffan.Ekwall@cec.eu.int

C. LeVillain, European Commission, Directorate General for Fisheries, Arrangements internationaux et regionaux, Rue de la Loi 200, B-1049 Brussels, Belgium

Phone: +32 2 295 3195 – Fax: +32 2 295 5700 – E-mail: christophe.le-villain@cec.eu.int

M. Newman, European Commission, Directorate General for Fisheries, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium

Phone: +32 2 295 7449 – Fax: +32 2 296 2338 – E-mail: martin.newman@cec.eu.int

L. H. Pedersen, Fisheries Inspector, European Commission, Directorate General for Fisheries, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium

Phone: +32 2 295 0645 – Fax: +32 2 296 2338 – E-mail: lars.pedersen.@cec.eu.int

P. Heller, European Commission, Rue de la Loi 200, B-1049 Brussels, Belgium

Phone: +32 2 295 6445 – Fax: +322 299 1046 – E-mail: per.heller@cec.eu.int

D. Cross, Head of Section, Fisheries, EUROSTAT, European Commission, Jean Monnet Bldg, B.P. 2920, Luxembourg (G.D.)

Phone: +352 4301 37249 – Fax: +352 4301 37318 – E-mail: david.cross@cec.eu.int

G. F. Kingston, Senior Adviser, Economic and Commercial Affairs, Delegation of the European Commission in Canada, 45 O'Connor Street, Suite 1900, Ottawa, Ontario, Canada K1P 1A4

Phone: +613 238 6464 – Fax: +613 238 5191 – E-mail: fred.kingston@delcan.cec.eu.int

V. Pons Mateau, Council of the European Union, DG-BIII-Fisheries, Rue de la Loi 175, B-1048 Brussels, Belgium

Phone: +32 2 285 7217 - Fax: +32 2 285 6910 - E-mail: vicente.pons@consilium.eu.int

S. Stevenson, European Parliament, ASP 8E-130, Rue Wiertz, Brussels, Belgium

Phone: +32 2 284 7710 – Fax: +32 2 284 9710

D. Varela, European Parliament (Fisheries Committee), Brussels, Belgium

Phone: +32 2 284 5950 – Fax: +32 2 284 5950 – E-mail: dvarela@europarl.eu

S. Feldthaus, Head of Section, Ministry of Food, Agriculture and Fisheries, Holbergsgade 2, 1057 Copenhagen, Denmark

Phone: +45 33 92 35 60 – Fax: +45 33 11 82 71 – E-mail: sfe@fvn.dk

R. Akesson, Ministry for Agriculture and Fisheries, 10333 Stockholm, Sweden

Phone +46 08 405 1122 - Fax: +46 08 10 5061 - E-mail: rolf.akesson@agriculture.ministry.se

Y. Becouarn, Direction des pêches maritimes et d l'aquaculture, Bureau de la ressource, de la réglementation et des affaires Internationales, Ministère de l'agriculture et de la pêche, 3, place de Fontenoy 75007 Paris

Phone: +330149558238 – Fax: +33 01 49558200/74 37–E-mail: yann.becouarn@agriculture.gouv.fr

Mahé, J.-C., IFREMER, Station de Lorient, 8, Rue François Toullec, 56100 Lorient, France

Phone: +33 2 9787 3818 – Fax: +33 2 9787 3801 – E-mail: jcmahe@ifremer.fr

H. Pott, Bundesministerium für Verbraucherschutz, Ernährung, und Landwirtschaft, Rochusstr. 7, 53123 Bonn, Germany

Phone: +49 228 529 4124 - Fax: +49 228 529 4410 – Email: Hermann.Pott@bmvvel.de

E. Riediger, Doggerbank Seefischerei GmbH, Groenlandstrasse 1, 27572 Bremerhaven, Germany

Phone: +49 (0)471 9 265 00 – Fax: +49 (0)471 9 265 02 30

M. Stein, Institut für Seefischerei, Palmaille 9, D-22767, Hamburg, Germany

Phone: +49 40 389 05174 – Fax: +49 40 38905 263 E-mail: stein.ish@bfa-fisch.de

E. Monteiro, Director-General for Fisheries, Edificio Vasco da Gama, Rua General Gomes Araujo, 1399-006 Lisbon, Portugal

Phone: +351 21 391 4387 - Fax: +351 21 3957858 - E-mail: euricom@dg-psces.pt

- E. Batista, Direccao Geral das Pescas e Aquicultura, Edificio Vasco da Gama, Rua General Gomes de Araujo, 1399 Lisbon, Portugal
Phone: +351 21 391 4350 Fax: +351 21 3979790 E-mail: ebatista@dg-pescas.pt
- A. Avila de Melo, Inst. de Investigacao das Pescas e do Mar (IPIMAR), Av. de Brasilia, 1400 Lisbon, Portugal
Phone: +351 21 302 7000 – Fax: +351 21 301 5948 – E-mail: amelo@ipimar.pt
- R. Alpoim, Inst. de Investigacao das Pescas e do Mar (IPIMAR), Av. de Brasilia, 1400 Lisbon, Portugal
Phone: +351 21 302 7000 – Fax: +351 21 301 5948 – E-mail: ralpoim@ipimar.pt
- M. Mancebo, Subdireccion General de Organismos Multilaterales de Pesca, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 91 3476176 - Fax: +34 91 3476049 – E-mail: cmancebo@mapya.es
- C. Domínguez, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57-3°, 28006 Madrid, Spain
Phone: +34 913 476030 - Fax: +34 913 476032 - E-mail: cdominguez@mapya.es
- I. Escobar, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
Phone: +34 913 476847 - Fax: +34 913 476049 - E-mail: iescobar@mapya.es
- A. Hermida Trastoy, Director General de Estructuras y Mercados de la Pesca, Conselleria de Pesca y Asuntos Maritimos Xunta de Galicia, Calle del Sar, 75, Santiago de Compostela 15702, A Coruna, Spain
Phone: + 34981546347 - Fax: +34981546288 – E-mail: andres.hermida.trastoy@xunta.es
- J. Del Hierro, Subdireccion General de Inspeccion Pesquera, Secretaria General de Pesca Maritima, c/Castellana 112, 5ª Plto, Madrid, Spain
Phone: +34 91 3471645 - Fax: +34 91 3471512 – E-mail: jdelhier@mapya.es
- P. Rueda Crespo Palma, Delegacion de Pesca, Edificio Administrativo del Arenal, Vigo 36002, Spain
Phone: +34 986 817139 – E-mail: paloma.rueda@xunta.es
- E. De Cardenas, Institute Espanol de Oceanografia, Avenida de Brasil 31, 28020 Madrid, Spain
Phone: +34 91 5974443 – Fax: +34 91 5974770 – E-mail: e.decardenas@md.ieo.es
- F. Gonzalez-Costas, Instituto Español de Oceanografia, Apto 1552, E-36280 Vigo (Pontevedra), Spain
Phone: +34 9 86 49 2111 – Fax: +34 9 86 49 2351 – E-mail: fernando.gonzalez@vi.ieo.es
- H. Murua, Fish, Resour. – AZTI Foundation, Herrera Kaia, Portualde z/g, 20110 Pasaia, Basque Country, Spain
Phone: + 34 9 43 00 48 00 – Fax: + 34 9 43 00 48 01 – E-mail: hmurua@pas.azti.es
- A. Vazquez, Instituto de Investigaciones Marinas, Eduardo Cabello 6, 36208 Vigo, Spain
Phone: +34 9 86 23 1930 – Fax: +34 9 86 29 2762 – E-mail: avazquez@iim.csic.es
- M. Rimmer, Sea Fisheries Conservation Div., Department for Environment, Food and Rural Affairs, Room 423b, Nobel House, 17 Smith Square, London SW1P 3JR
Phone: +44 (0)20 7238 6529 - Fax: +44 (0)20 7238 5721 - E-mail: mike.rimmer@defra.gsi.gov.uk
- P. Franca, Presidente, A.D.A.P.I. – Associacao Armadores das Pescas Industriais, Docapesca, Edificio Dos Armadores 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +213015020 - Fax: +213019438 - E-mail: adapi.pescas@mail.telepac.pt
- A. Meireles, Director, A.D.A.P.I.-Associacao dos Armadores das Pescas Industriais, Docapesca, Edificio dos Armadores, 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +351 213015020 – Fax: +351 213019438 – E-mail: adapi.pescas@mail.telepac.pt
- A. Paiao, Director, A.D.A.P.I.-Associacao dos Armadores das Pescas Industriais, Docapesca, Edificio dos Armadores, 13-A, Pedroucos, 1400-038 Lisbon, Portugal
Phone: +351 213015020 – Fax: +351 213019438 – E-mail: adapi.pescas@mail.telepac.pt
- J. Tavera DaMota, Portugal
Phone: +351 234 365614 – Fax: +351 234 364090

- R. Gordejuela Aguilar, ANAVAR, Puerto Pesquero, Vigo, Spain
Phone: +34 986 433844 – Fax: +34 986 439218
- J. Oya Alvarez, San Francisco 57-10, 36202 Vigo-Pontevedra, Spain
Phone: +34 986 447484 – Fax: +34 986 439229 – E-mail: juanoya@oyaperez.es
- C. Andion, Grupo Oya Perez, Calle San Francisco 57-2°, 36202 Vigo, Galicia, Spain
Phone: +34 986 447 484 – Fax: +986 439 229 – E-mail: oyagroup@apdo.com
- E. Carramal, Director Financiero, Grupo Oya Perez, Calle San Francisco 57-2°, 36202 Vigo, Galicia, Spain
Phone: +34 986 447 484 – Fax: +986 439 229 – E-mail: ecarramal@oyaperez.es
- M. Liria Franch, Presidente, Federacion Espanola de Organizaciones Pesqueras (FEOPE),
C/Comandante Zorita, 12, Escalera 4ª - 1ºD, 28020 Madrid, Spain
Phone: +34 915 33 3884 – Fax: +34 915 34 3718 – E-mail: mliria@iies.es
- J. R. Fuertes Gamundi, Director Gerente, ANAMER-ANAVAR-AGARBA, Puerto Pesquero,
Apartado 1.078, 36200 Vigo, Spain
Phone: +34 986 433844 - Fax: +34 986 439218 – E-mail: soccoopa@aranzadi.es
- M. Iriondo, Director Gerente, Pesquera Laurak Bat S.A., Armadores de Buques de Pesca, Edificio
Consignatarios, 3ª Planta. Puerto Apdo. de correos, 88 20110 Pasajes, Spain
Phone: +34 943 354177 – Fax: +34 943 353993 – E-mail: langa99@teleline.es
- G. Mantecón, Director General, Transpesca, S.A., Plaza de Compostela, 17 - 5ºB, 36201, Edificio
Meridional, Vigo, Spain
Phone: +34 986 438466 – Fax: +34 986 225893
- R. Pombo, Director Gerente, Transpesca, S.A., Plaza de Compostela, 17 - 5ºB, 36201 Vigo, Spain
Phone: +34 986 443190 – Fax: +34 986 221485 – E-mail: transpes@infonegocio.com
- J. M. Oya Perez, Grupo Oya Perez, Calle San Francisco 57-2°, 36202 Vigo, Galicia, Spain
Phone: +34 986 447 484 – Fax: +986 439 229 – E-mail: oyagroup@apdo.com
- C. Real Rodriguez, Presidente de "ASPE", Vigo, Spain
Phone: +34 986 818190 – Fax: +34 986 818318 – E-mail: cesar.real@pescanova.es
- F. J. Rodríguez, Avda. de la Libertad 25-5º, San Sebastián, 20004 Spain
Phone: +34 943 430303 – Fax: +34 943 432211 – E-mail: fran@pescafria.com
- J. L. Meseguer Sanchez, Secretario General, ARBAC – Asociacion de empresas de pesca de bacalao,
especies afines y asociadas, Enrique Larreta, 10-3º, 28036 Madrid, Spain
Phone: +34 913 151965 – Fax: +34 913 152673

FRANCE (in respect of St. Pierre et Miquelon)

Head of Delegation

D. Silvestre, Chargé de Mission, Secrétariat Général de la mer, 16, boulevard Raspail, 75007 Paris
Phone: +53634153 – Fax: +53634178 – E-mail: daniel.silvestre@sgmer.premier-ministre.gouv.fr

Advisers

- S. Ausseil, Ministere de l'outre Mer, 27 rue Oudinet, 75007 Paris
Phone: +33 153692746 – E-mail: sarah.outre-mer.gouv.fr
- B. Detcheverry, Directeur General, Interpeche S.A., Société des Pêches de Archipel, Quai du Môle
Frigorifique, B.P.4249, 97500 Saint-Pierre et Miquelon
Phone: +508 413991 – Fax: +508 413838 / 419947 – E-mail: interpeche@wanadoo.fr
- P. Jaccachury, Conseil General de Saint Pierre et Miquelon, 35 rue de la Fauvette, 97500 Saint Pierre
et Miquelon
Phone: +508 410102 – Fax: +508 412299

ICELAND

Head of Delegation

T. Skarphedinsson, Legal Adviser, Ministry of Fisheries, Skulagata 4, 150 Reykjavik
Phone: +354 560 9670 – Fax: +354 562 1853 - E-mail: thorir@hafro.is

Advisers

G. Geirsson, Commander, Icelandic Coast Guard, P. O. Box 7120, 127 Reykjavik
Phone: +354 545 2071 – Fax: +354 545 2040 – E-mail: gylfi@lhg.is

K. Ragnarsson, Chairman, Federation of Icelandic Fishing Vessel Owners, P. O. Box 893, 121 Reykjavik

Phone: +354 591 0300 - Fax: +354 591 0301 – E-mail: kristjan@liu.is

T. Sigurdsson, Marine Research Institute, Skulagata 4, 101 Reykjavik

Phone: +354 5520240 - Fax: +354 5623790 - E-mail: steini@hafro.is

U. Skúladóttir, Marine Research Institute, Skúlagata 4, Pósthólf Box 1390, 121 Reykjavik

Phone: +354 552 0240 – Fax: +354 562 3790 – E-mail: unnur@hafro.is

H. Steinarsson, The Icelandic Directorate of Fisheries, Ingilfsstraeti, 150 Reykjavik

Phone: +354 5697900 - Fax: +354 5697991 - E-mail: hostein@hafro.is

JAPAN

Head of Delegation

K. Iino, Ambassador of Japan, Embassy of Japan, 2nd Floor, Dominion House, G.P.O. Box 13045, Suva Fiji

Phone: +679 330 4633 – Fax: +679 330 2984

Advisers

T. Ichii, National Research Institute of Far Seas Fisheries, 5-7-1 Orido, Shimizu 424-8633

Phone: +81543 36 6056 – Fax: +81543 35 9642 – E-mail: ichii@fra.affrc.go.jp

Y. Sakamoto, Deputy Director, Far Seas Fisheries Div., Resources Management Dept., Fishery Agency, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8907

Phone: +81 3 3502 8111 (ext. 7237) / 3 3591 6582 - Fax: +81 3 3591 5824

T. Sato, Resources Management Dept., Fishery Agency, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100

Phone: +81 3 3591 6582 - Fax: +81 3 3591 5824

K. Suzuki, Assistant Director, Fishery Div., Economic Affairs Bureau, Ministry of Foreign Affairs, 2-11-1 Shibakoen, Minato-ku, Tokyo 105-8519

Phone: +81 3 6402 2234 – Fax: +81 3 6402 2233 – E-mail: keiko.suzuki@mofa.go.jp

N. Takagi, Director, Executive Secretary, Japan Deep Sea Trawlers Association, NK-Bldg., 6F Kanda Ogawa-cho, Chiyoda-ku, Tokyo 101-0052

Phone: +81 33 291 8508 – Fax: +81 33 233 3267 – E-mail: jdsta-takagi@msg.biglobe.ne.jp

REPUBLIC OF KOREA

Head of Delegation

Oh Choong-Shin, Consul de Pesca, Agencia Consular de la Republica de Korea, Luis Doreste Silva No. 60-1, Las Palmas de G.C., Spain

Phone: +34 928 23 0499 – Fax: +34 928 24 3881 – E-mail: csoh49@hanmail.net

LATVIA**Head of Delegation**

N. Riekstins, Director, National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
 Phone: +371 732 3877 - Fax: +371 733 4892 - E-mail: fish@latnet.lv

Alternate

R. Derkacs, Head of International Agreements and Legal Division, National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
 Phone: +371 732 3877 - Fax: +371 733 4892 - E-mail: fish@latnet.lv

Advisers

U. Rinkis, Senior Officer, Fisheries and Fish Resources Div., National Board of Fisheries, Ministry of Agriculture, 2, Republikas laukums, LV-1010 Riga
 Phone: +371 733 4478 - Fax: +371 733 4892 - E-mail: fish@com.latnet.lv
 D. Kalinovs, Skaga Ltd., Brivibas Gatve 215A-46, LV-1039 Riga
 Phone: +371 754 2471 – Fax: +371 754 2471 – E-mail: skaga@latnet.lv

LITHUANIA**Head of Delegation**

V. Vaitiekunas, Director, Fisheries Dept. under the Ministry of Agriculture, 19 Gedimino av., Vilnius 2025
 Phone: +370 02 391174 – Fax: 37002 391176 – E-mail: vytautasv@zum.lt

Alternate

A. Rusakevicius, Fisheries Department under the Ministry of Agriculture, 19 Gedimino av., 2025 Vilnius
 Phone: +370 2 391183 - Fax: +370 2 391176 - E-mail: algirdasr@zum.lt

Advisers

A. Halldorsson, District Court Attorney at Law, Logmenn, Skipholt 50 C, 105 Reykjavik
 Phone: +354 561 8200 – Fax: +354 561 8201 – E-mail: arnor.halldorsson@simnet.is
 B. Kristanavicius, General Director UAB "Atlantic Fishery Company", Jono 12, LT-5800 Klaipeda
 Phone: +370 6 493105 – Fax: +370 6 311552 – E-mail: afp@takas.lt
 V. Pertraitiene, Director of Finances, JSC "Zukme", M. Gimbutienes Str. 35, 3014 Kaunas
 Phone: +370 7 370656 – Fax: +370 7 370664 – E-mail: zukme@ijo.net
 V. Ramanaukas, S Daukanto 9, Klaipeda, LT-5800
 Phone: +370 8 742045 – Fax: +370 6 312393 – E-mail: vramanau@takas.lt
 L. Siksniete, Attorney at Law, LRF Juridska Byran, Rotuses a. 11, LT-3000 Kaunas
 Phone: +370 37 226204 – Fax: +370 37 226204 – E-mail: lina@lrf.lt
 S. Staskus, Director, JSC "Zukme", M. Gimbutienes Str. 35, 3014 Kaunas
 Phone: 370 7 370656 – Fax: +370 7 370664 – E-mail: zukme@ijo.net

NORWAY**Head of Delegation**

T. Lobach, Senior Legal Adviser, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
 Phone: +47 55 23 80 00 Fax: +47 55 23 80 90 E-mail: terje.lobach@fiskeridir.dep.no

Alternate

S.-A. Johnsen, Head of Section, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
 Phone: +47 55 23 80 00 – Fax: +47 55 23 80 90 – E-mail: postmottak@fiskeridir.dep.no

Advisers

W. Barstad, Norwegian Fishing Vessel Owners Association, P.O. Box 67 Sentrum, 6001 Aalesund
 Phone: +47 70 10 14 60 - Fax: +47 70 10 14 80 - E-mail: webjorn@fiskebatreder.no
 T. Rodrigues Eusébio, Assistant Director General, Ministry of Foreign Affairs, P. O. Box 8114 Dep.,
 N-0032 Oslo
 Phone: +47 22 24 36 00 – Fax: +47 22 24 95 80 – E-mail: tbe@mfa.no
 H. M. Johansen, Project Coordinator, Norwegian Ministry of Fisheries, P. O. Box 8118 Dep., 0032
 Oslo
 Phone: +47 22 24 64 44 – Fax: +47 22 24 95 85 – E-mail: heidi.johansen@fid.dep.no

POLAND**Head of Delegation**

L. Dybiec, Counsellor to the Minister, Ministry of Agriculture and Rural Development, Fisheries
 Department, Wspólna 30, 00-930 Warsaw
 Phone: +48 22 628 9684 – Fax: +48 22 623 2204 – E-mail: leszek.dybiec@minrol.gov.pl

RUSSIA**Head of Delegation**

A. N. Makoedov, Deputy Chairman, State Committee for Fisheries of the Russian Federation, 12
 Rozhdestvensky Boul., Moscow 103031
 Phone: +7 095 928 5527 - Fax: +7095 928 5527

Representative

A. N. Makoedov (see address above)

Advisers

V. E. Agalakov, “MURMANRYBVOD”, Komintern 5 str., 183672 Murmansk
 Phone: +7 8152 450268 – Fax: +7 815 245 6028 – E-mail: mrv@an.ru
 V. K. Babayan, Head of Laboratory for System Analysis of Fishery Resources, VNIRO, 17, V.
 Krasnoselskaya, Moscow 107140
 Phone: +70 95 264 6983 – Fax: +70 95 264 9187 – E-mail: vbabayan@vniro.ru

- K. V. Gorchinsky, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich St., Murmansk
Phone: + 7 8152 47 2532 – Fax: + 7 8152 47 3331 – E-mail: inter@pinro.murmansk.ru
- U. Kim, State Committee for Fisheries of the Russian Federation, 12 Rozhdestvensky Boul., Moscow 103031
Phone: +7095 928 2873 – Fax: +7095 921 3463 – E-mail: kim@fishcom.ru
- V. M. Mishkin, General Director, Scientific and Technical Firm "Complex Systems", 5, Komintern str., 183038, Murmansk
Phone: +78152 476080 / + 7095 9167261 - Fax: +7 8152476083 – ntf@coms.ru
- A. Okhanov, Representative of the Russian Federation in Canada on Fisheries, 47 Oceanview Drive, Bedford, Nova Scotia Canada B4A 4C4
Phone: +902 832 9225 – Fax: +902 832 9608 – E-mail: rusfish@ns.sympatico.ca
- B. F. Prischeva, Head of Department, "MURMANRYBVOD", Komintern 5 str., 183672 Murmansk
Phone: +7 815 2 45 86 78 – Fax: +7 815 2 45 86 78 – E-mail: mrsv@an.ru
- V. A. Rikhter, Atlantic Scientific Research Institute of Marine Fisheries and Oceanography (AtlantNIRO), 5 Dmitry Donskoy Street, Kaliningrad 23600
Phone: +70 112 22 5547 – Fax: +70 112 21 9997 – E-mail: west@atlant.baltnet.ru
- A. Romanov, Director, Professor, All-Russia Research and Design Institute for Economics, Information and Automated Management Systems of Fisheries (VNIERKH), 4/2, B. Spasoglinishchevskii per., Moscow, 101990
Phone: +7095 928 00 88 – Fax: +7095 925 47 31 – E-mail: romanov@vnierkh.ru
- E. N. Samoylova, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich St., Murmansk
Phone: + 7 8152 47 2532 – Fax: + 7 8152 47 3331 – E-mail: elena@pinro.murmansk.ru
- V. Shibanov, Research Director, Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich St., Murmansk 183763
Phone: +7 8152 472614 – Fax: +47 789 10 518 – E-mail: inter@pinro.murmansk.ru
- V. N. Solodovnik, Deputy Chief, Dept. of International, Legal and Biological Foundations in Fisheries, VNIRO, 17, V. Krasnoselskaya, Moscow 107140
Phone: +7095 264 9143 – Fax: +7095 264 9021 – E-mail: inter@vniro.ru

UKRAINE

Head of Delegation

- V. B. Chernik, Deputy Chairman, State Department for Fisheries of Ukraine, 82A Turgenivska str., Kiev, 04050
Phone: +38044 226 2405 - Fax: +380 44 226 2405 – E-mail: nauka@i.kiev.ua

Advisers

- V. Litvinov, Senior Expert, Div. for International Fishing Policy, State Department for Fisheries of Ukraine, 82A Turgenivska str., Kiev 252053
Phone: +38044 246 8984 - Fax: +38044 246 8984 – E-mail: nauka@i.kiev.ua
- L. Petsyk, General Manager, Black Sea Fishing Company, 12, Safronova Street, 99003 Sevastopol
Phone: +38 0692 577277 – Fax: +38 0692 451905 – E-mail: bsc@mail.souz.sebastopol.ua

UNITED STATES OF AMERICA

Head of Delegation

J. Dunnigan, Director, Office of Sustainable Fisheries, U.S. Dept. of Commerce, NOAA, National Marine Fisheries Service, 1315 East West Highway, Silver Spring, MD 20910
Phone: +301 713 2334 - Fax: +301 713 0596 - E-mail: jack.dunnigan@noaa.gov

Representatives

J. Dunnigan (see address above)

J. Pike, Director, Government Relations, Scher and Blackwell, Suite 900, 1850 M Street NW, Washington, DC 20036

Phone: +202 463 2511 - Fax: +202 463 4950 - E-mail: jpik@sherblackwell.com

B. D. Stevenson, Seller's Representative, 2 Portland Fish Pier, Suite 109, Portland, ME 04101

Phone: +202 775 5450 - Fax: +207 773 9096 - E-mail: bdso2@sprynet.com

Advisers

J. Anderson, Fisheries Biologist, Protected Resources Div., Northeast Region, National Marine Fisheries Service, U.S. Dept. of Commerce, NOAA, 1 Blackburn Dr., Gloucester, MA 01930

Phone: +978 281 9226 - Fax: 978-281-9394 - E-mail: jennifer.anderson@noaa.gov

S. Correia, Massachusetts Division of Marine Fisheries, 50A Portside Drive, Pocasset, MA 02559

Phone: +508 563 1779 Ext. 111 - Fax: +508 563 5482 - E-mail: steven.correia@state.ma.us

S. Fordham, The Ocean Conservancy, Suite 600, 1725 DeSales St., NW, Washington, D.C. 20036

Phone: +202 857 3273 - Fax: +202 872 0619 - E-mail: sonja@oceanconservancy.org

G. S. Martin, Attorney, Office of the General Counsel, Northeast Region, National Oceanic and Atmospheric Administration, U.S. Dept. of Commerce, 1 Blackburn Dr., Gloucester, MA 01930

Phone: +1 978 281 9242 - Fax: +1 978 281 9389 - E-mail: gene.s.martin@noaa.gov

P. F. Martin, Lieutenant Commander, Coast Guard Liaison Officer, Office of Marine Conservation (Rm 5806), U.S. Department of State, 2201 C Street NW, Washington, D.C. 20520

Phone: +202 647 3177 - Fax: +202 736 7350 - E-mail: pmartin@comdt.uscg.mil

R. Mayo, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543

Phone: +508 495 2310 - Fax: +508 495 2393 - E-mail: ralph.mayo@noaa.gov

P. Moran, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Hwy., Silver Spring, MD 20910

Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: pat.moran@noaa.gov

W. Quinby, Director, Mayflower Shipping Ltd., 655 Summer Street, Boston, MA 02210

Phone: +843 577 0560 - Fax: +843 577 6644 - E-mail: mayflower@mindspring.com

F. M. Serchuk, Chief, Resource Evaluation and Assessment Division, Northeast Fisheries Science Center, NMFS, 166 Water St., Woods Hole, MA 02543-1097

Phone: +508 495 2245 - Fax: +508 495 2258 - E-mail: fred.serchuk@noaa.gov

D. E. Swanson, Chief, International Fisheries Div., F/SF4, National Marine Fisheries Service, U.S. Dept. of Commerce, 1315 East-West Highway, Silver Spring, MD 20910

Phone: +301 713 2276 - Fax: +301 713 2313 - E-mail: dean.swanson@noaa.gov

OBSERVER

D. J. Douman, Senior Fishery Liaison Officer, Food and Agriculture Organization of the United Nations (FAO), International Institutions and Liaison Service, Fishery Policy and Planning

Division, Fisheries Dept. Viale delle Terme di Caracalla, Room F-409, 00100 Rome, Italy

Phone: +39 0657 056752 - Fax: +39 0657 056500 - E-mail: david.douman@fao.org

SECRETARIAT

L. I. Chepel, Executive Secretary
T. Amaratunga, Assistant Executive Secretary
F. D. Keating, Administrative Assistant
B. J. Cruikshank, Senior Secretary
S. Goodick, Accounting Officer
G. Moulton, Statistical/Conservation Measures Officer
D. Auby, Word Processing Secretary
F. E. Perry, Desktop Publishing/Documents Clerk
R. Myers, Graphic Arts/Printing Technician

Annex 2. Agenda

I. Opening Procedure

1. Opening by the Chairman, D. Swanson (USA)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Admission of Observers
5. Publicity

II. Administrative

6. Review of Commission Membership

III. Conservation and Enforcement Measures

7. Report of the Working Group on Precautionary Approach
8. Presentations on compliance
9. Report of STACTIC, May 2002 (Copenhagen); presentation proposals
 - a) review of program for observers and satellite tracking
 - b) use of observer information for scientific purposes
 - c) evaluation of options to modify the observer/VMS system
 - d) confidential treatment of electronic reports and messages and improvements to hail/VMS system
 - e) modernization of the Conservation and Enforcement Measures
 - f) control/avoidance of incidental catches
 - g) compliance issues (Rules of Procedure of the Fisheries Commission)
 - h) other
10. Review of the provisions on chartering operations in the NAFO Regulatory Area
11. Increase of inspection presence in the NAFO Regulatory Area
12. Quota Allocation Issues
13. Report of STACTIC at the Annual Meeting
14. Canadian Management Measures for 2J3KL Cod in 2002

IV. Conservation of Fish Stocks in the Regulatory Area

15. Summary of Scientific Advice by the Scientific Council
 - a) Stock assessments and recommendations (Scientific Council Chairman)
 - b) Decadal trends in environmental conditions in the Northwest Atlantic (Chair of STACFEN or his designate)
16. Management and Technical Measures for Fish Stocks in the Regulatory Area, 2003
 - 16.1 Cod in Div. 3M
 - 16.2 Redfish in Div. 3M
 - 16.3 American plaice in Div. 3M
 - 16.4 Shrimp in Div. 3M

17. Management and Technical Measures for Fish Stocks Straddling National Fishing Limits, 2003

- 17.1 Cod in Div. 3NO
- 17.2 Redfish in Div. 3LN
- 17.3 American plaice in Div. 3LNO
- 17.4 Yellowtail flounder in Div. 3LNO
- 17.5 Witch flounder in Div. 3NO
- 17.6 Capelin in Div. 3NO
- 17.7 Squid (*Illex*) in Subareas 3 and 4
- 17.8 Shrimp in Div. 3LNO
- 17.9 Greenland halibut in Div. 3LMNO
- 17.10 If available in the Regulatory Area:
 - i) Cod in Div. 2J3KL
 - ii) Witch flounder in Div. 2J3KL
- 17.11 Pelagic *Sebastes Mentella* in the NAFO Convention Area
- Report of the ad hoc Working Group on Oceanic Redfish
- 17.12 Management of Currently Unregulated Stocks – 3O redfish

18. Formulation of Request to the Scientific Council for:

- a) Scientific advice on the management of fish stocks in 2004

19. Transfer of Quotas Between Contracting Parties

V. Closing Procedure

20. Time and Place of the Next Meeting

21. Other Business

22. Adjournment

Annex 3. Terms of Reference – STACTIC Evaluation of the Program for Observers and Satellite Tracking (STACTIC W.P. 02/31)

As noted in Part VI of the NAFO Conservation and Enforcement Measures, the elements of the Program are subject to review and revision, as appropriate, for application in 2003 and subsequent years. During STACTIC meetings in 2002, it was concluded that a review of the effectiveness of the Program could not be completed, in part, due to a lack of clear guidance on a review process. STACTIC proposes the terms of reference below to provide direction for a review of the operation of the Program for the period 1999-2002. It is proposed that the evaluation cover the following 3 elements:

1. ASSESSMENT - IMPLEMENTATION OF THE PROGRAM (2002 only)

1 a): Assessment of Impartiality and Independence:

The review will undertake to assess the independence and impartiality of observers in the following manner:

All Contracting Parties whose vessels fish in the NRA will report to the NAFO Secretariat on the recruitment and training of their observers. Annex 1 contains a format for the use of Contracting Parties to report this information to the Executive Secretary.

Additionally, Contracting Parties with an Inspection Presence in the NRA will report to the NAFO Secretariat any information they have relating to the independence and impartiality of observers.

This information will be combined by the Executive Secretariat and presented to STACTIC at the next Intersessional meeting.

1b): Assessment of all other elements of the program:

The assessment will also include a review of the implementation of all other elements of the program by Contracting Parties or by Contracting Parties with an Inspection Presence in the Area. It will assess whether the elements of the program have been consistently and properly implemented in accordance with Part VI of the NAFO Conservation and Enforcement Measures.

This assessment of all other elements of the Program will be conducted by the Executive Secretariat, which will complete a report to STACTIC for the next Intersessional meeting, outlining the performance of each Contracting Party in implementing the elements of Part VI of the NCEM. Annex 2 outlines the format to be used in the report.

Contracting Parties with an Inspection Presence in the NRA may also provide to STACTIC information they have acquired regarding the implementation of the program.

2. ASSESSMENT - FINANCIAL AND PRACTICAL IMPLICATIONS OF PROGRAM

The review will include an assessment of the financial and practical implications of the Program for Contracting Parties (including Contracting Parties with an inspection presence) in the NRA. Specifically, the Review will consider 2 aspects of the Program.

2a) Assessment of Financial Implications:

To facilitate this assessment, all Contracting Parties (including those with an inspection presence) will calculate the following:

- 1) the costs of the program for:
 - Contracting Parties
 - Contracting Parties with an Inspection Presence
 - Vessel Owners
 - Observer Contracting Companies
- 2) the costs of the program in relation to each Contracting Party's (including those with an inspection presence) contribution to the monitoring and control regime and in relation to the presence of vessels fishing in the NRA.
- 3) the costs of at sea inspections, port inspections and air surveillance

This information will be submitted to the NAFO Secretariat in the format outlined in Annexes 3 and 4.

2b) Identification of Practical Implications:

Contracting Parties (including those with an inspection presence) will examine the practical considerations and logistical effort involved in the development of procedures, deployment plans and training required by the Program.

Contracting Parties will submit to the NAFO Secretariat the logistical issues related to the implementation of the Program they encounter in ensuring compliance with the program.

3. ASSESSMENT OF THE EFFECTIVENESS OF THE PROGRAM

The final component of the review will assess the effectiveness of the program in relation to compliance with the Conservation and Enforcement Measures and support for the Scientific Council.

Each Contracting Party (including those with an inspection presence) will assess the effectiveness of

- the interaction between the Program and the Inspection Scheme (sea and port inspections)
 - the interaction with inspectors
 - procedures for follow-up of observer reported infringements
- accuracy and usefulness of observer data
 - support to Scientific Council
 - quantity and quality of the data
 - availability of data on real time basis
 - formatting of the data
- the contribution of observers and VMS (the Program) to compliance with the NCEM
 - infringements reported by observers
 - infringements not reported by observers

- infringements detected by VMS
- infringements not detected by VMS

This section of the review will also assess the relative costs of the current program in comparison with other control measures such as enhanced VMS and port inspections.

All reports, evidence and information submitted to the NAFO Secretariat in relation to this review should be submitted to the NAFO Secretariat by November 30, 2002 and will be reported to STACTIC at the next intersessional meeting. The information will be distributed to all Contracting Parties one month in advance of the intersessional meeting. The data collected will be assessed and recommendations will be considered and provided to the Fisheries Council on the operation of the program.

ANNEX 1. ASSESSMENT OF OBSERVER INDEPENDENCE AND IMPARTIALITY

| Number of Observers | Observer Employer (Name and Address) | Status of Observer Employer (e.g. state body, private contractor) | Who trains the observers? | How are observers paid? | Other Pertinent Details |
|---------------------|--------------------------------------|---|---------------------------|-------------------------|-------------------------|
|---------------------|--------------------------------------|---|---------------------------|-------------------------|-------------------------|

ANNEX 2. ASSESSMENT OF IMPLEMENTATION

F - FULL
P - PARTIAL (Requires explanatory footnote)
N - NONE

A. OBSERVERS

| Contracting Party | Part VI NAFO Conservation and Enforcement Measures | | | | | | | | | | | | |
|---------------------|--|---|-----------|------------|-------------|------------|-----|-----|-----|---|---|---|---|
| | 1a) | 2 | 3a) i) | 3a) ii) | 3a) iii) | 3a) iv) | 3b) | 3c) | 3d) | 4 | 5 | 6 | 7 |
| Canada | | | | | | | | | | | | | |
| Cuba | | | | | | | | | | | | | |
| Denmark (Faroes) | | | | | | | | | | | | | |
| Denmark (Greenland) | | | | | | | | | | | | | |
| Estonia | | | | | | | | | | | | | |
| European Union | | | | | | | | | | | | | |
| Iceland | | | | | | | | | | | | | |
| Japan | | | | | | | | | | | | | |
| Latvia | | | | | | | | | | | | | |
| Lithuania | | | | | | | | | | | | | |
| Norway | | | | | | | | | | | | | |
| Poland | | | | | | | | | | | | | |
| Russia | | | | | | | | | | | | | |

ANNEX 2 (cont'd). ASSESSMENT OF IMPLEMENTATION

B. SATELLITE TRACKING/ VESSEL MONITORING SYSTEM (VMS)

| Contracting Party | Part VI NAFO Conservation and Enforcement Measures | | | | | | |
|---------------------|--|------|------|------|------|------|------|
| | B. 1 | B. 2 | B. 3 | B. 4 | B. 5 | B. 6 | B. 7 |
| Canada | | | | | | | |
| Cuba | | | | | | | |
| Denmark (Faroes) | | | | | | | |
| Denmark (Greenland) | | | | | | | |
| Estonia | | | | | | | |
| European Union | | | | | | | |
| Iceland | | | | | | | |
| Japan | | | | | | | |
| Latvia | | | | | | | |
| Lithuania | | | | | | | |
| Norway | | | | | | | |
| Poland | | | | | | | |
| Russia | | | | | | | |

ANNEX 3. EXPENDITURES – 1999 - 2001

Contracting Party:

A. OBSERVERS

| Year | Observer Sea Days | Observer Transit Days | Travel | Recruitment and Training | Administration | Other (Specify) |
|------|-------------------|-----------------------|--------|--------------------------|----------------|-----------------|
| 1999 | | | | | | |
| 2000 | | | | | | |
| 2001 | | | | | | |
| 2002 | | | | | | |

Contracting Party:

B. SATELLITE TRACKING/VESSEL MONITORING SYSTEM

| Year | Hardware | Software | Transmissions | Maintenance | Training | Monitoring | Other (Specify) |
|------|----------|----------|---------------|-------------|----------|------------|-----------------|
| 1999 | | | | | | | |
| 2000 | | | | | | | |
| 2001 | | | | | | | |
| 2002 | | | | | | | |

ANNEX 4. EXPENDITURES - ALL MEANS

EXPENDITURES – OBSERVERS

| | | | | | |
|-------------------|-----------------------|--------|----------|----------------|-------|
| Observer Sea Days | Observer Transit Days | Travel | Training | Administration | Other |
|-------------------|-----------------------|--------|----------|----------------|-------|

EXPENDITURES – SATELLITE TRACKING / VMS

| | | | | | | |
|----------|----------|---------------|-------------|----------|------------|-------|
| Hardware | Software | Transmissions | Maintenance | Training | Monitoring | Other |
|----------|----------|---------------|-------------|----------|------------|-------|

EXPENDITURES – TRADITIONAL MEANS OF SURVEILLANCE

| | | | |
|------------------|------------------|------------------|-------|
| Sea Surveillance | Air Surveillance | Port Inspections | Other |
|------------------|------------------|------------------|-------|

Annex 4. Confidential Treatment of Electronic Reports
(FC Doc. 02/20 – formerly STACTIC W.P. 01/15 revised)

Part VIII

**PROVISIONS ON SECURE AND CONFIDENTIAL TREATMENT OF
ELECTRONIC REPORTS AND MESSAGES TRANSMITTED
PURSUANT TO Part III E, VI and VII OF THE
CONSERVATION AND ENFORCEMENT MEASURES.**

1. Field of application

The provisions set out below shall apply to all electronic reports and messages transmitted and received pursuant to Part III. E and to annex I, Part VI.A.3 and B of the Conservation and Enforcement Measures, hereinafter referred to as “reports and messages”.

2. General Provisions

- 2.1. The NAFO Executive Secretary and the appropriate authorities of Contracting Parties transmitting and receiving reports and messages shall take all necessary measures to comply with the security and confidentiality provisions set out in sections 3 and 4.
- 2.2. The NAFO Executive Secretary shall inform all Contracting Parties of the measures taken in the secretariat to comply with these security and confidentiality provisions.
- 2.3. The NAFO Executive Secretary shall take all the necessary steps to ensure that the requirements pertaining to the deletion of reports and messages handled by the Secretariat are complied with.
- 2.4. Each Contracting Party shall guarantee the NAFO Executive Secretary the right to obtain as appropriate, the rectification of reports and messages or the erasure of reports and messages the processing of which does not comply with the provisions of the NAFO Conservation and Enforcement Measures.
- 2.5. Notwithstanding the provisions of Part III .E.2 and Part VI.B., the Fisheries Commission may instruct the NAFO Executive Secretary not to make available the reports and messages received under Part III and VI to a Contracting Party, where it is established that the Contracting Party in question has not complied with these security and confidentiality provisions.

3. Provisions on Confidentiality

- 3.1. Reports and messages shall be used only for the purposes stipulated in the Conservation and Enforcement Measures. No report or message referred to in section 1 shall be kept in a computer database at the Secretariat unless explicitly provided for in the Conservation and Enforcement Measures.
- 3.2. Each inspecting Contracting Party shall make available reports and messages only to their means of inspection and their inspectors assigned to the Scheme of Joint International Inspection and Surveillance. Reports and messages shall be transmitted to the inspection platforms and inspectors not more than 48 hours prior to entry into the Regulatory Area.

- 3.3. The NAFO Executive Secretary shall delete all the original reports and messages referred to in section 1 from the database at the NAFO Secretariat by the end of the first calendar month following the year in which the reports and messages have originated. Thereafter the information related to the catch and movement of the fishing vessels shall only be retained by the NAFO Executive Secretary, after measures have been taken to ensure that the identity of the individual vessels can no longer be established.
- 3.4. The NAFO Executive Secretary shall not make available reports and messages to other parties than those specified explicitly in Part III.E.2 of the Conservation and Enforcement Measures.
- 3.5. Inspecting Contracting Parties may retain and store reports and messages transmitted by the Secretary until 24 hours after the vessels to which the reports and messages pertain have departed from the Regulatory Area without re-entry. Departure is deemed to have been effected six hours after the transmission of the intention to exit from the Regulatory Area.

4. Provisions on security

4.1 Overview

Inspecting Contracting Parties and the NAFO Secretariat shall ensure the secure treatment of reports and messages in their respective electronic data processing facilities, in particular where the processing involves transmission over a network. Contracting Parties and the NAFO Secretariat must implement appropriate technical and organisational measures to protect reports and messages against accidental or unlawful destruction or accidental loss, alteration, unauthorised disclosure or access, and against all inappropriate forms of processing.

The following security issues must be addressed from the outset:

- System access control:
The system has to withstand a break-in attempt from unauthorised persons.
- Authenticity and data access control:
The system has to be able to limit the access of authorised parties to a predefined set of data only.
- Communication security:
It shall be guaranteed that reports and messages are securely communicated.
- Data security:
It has to be guaranteed that all reports and messages that enter the system are securely stored for the required time and that they will not be tampered with.
- Security procedures:
Security procedures shall be designed addressing access to the system (both hardware and software), system administration and maintenance, backup and general usage of the system.

Having regard to the state of the art and the cost of their implementation, such measures shall ensure a level of security appropriate to the risks represented by the processing of the reports and the messages.

Security measures are described in more detail in the following paragraphs.

4.2 System Access Control

For their main computer systems the Contracting Parties and the Secretariat shall aim to meet the criteria of a C2-level trusted system, (as described in Section 2.2 of the U.S. Department of Defence Trusted Computer System Evaluation Criteria (TCSEC), DOD 5200.28-STD, December 1985).

The following features are some of the ones provided by a C2-level trusted system:

- A stringent password and authentication system. Each user of the system is assigned a unique user identification and associated password. Each time the user logs on to the system he/she has to provide the correct password. Even when successfully logged on the user only has access to those and only those functions and data that he/she is configured to have access to. Only a privileged user has access to all the data.
- Physical access to the computer system is controlled.
- Auditing; selective recording of events for analysis and detection of security breaches.
- Time-based access control; access to the system can be specified in terms of times-of-day and days-of-week that each user is allowed to login to the system.
- Terminal access control; specifying for each workstation which users are allowed to access.

4.3 Authenticity and Data Access Security

Communication between the Contracting Parties and the NAFO Secretariat for the purpose of the Conservation and Enforcement Measures shall use the X.25 Protocol. Where E-mail is used for general communication and reports outside the scope of provision 1. between the NAFO Secretariat and the Contracting Parties the X.400 Protocol or Internet shall be used.

4.4 Communication Security

If Contracting Parties and the NAFO Secretariat agree, the X.400 Protocol or the Internet can be used for communication of data under the Scheme, but then appropriate encryption protocols like "Pretty Good Privacy" (PGP) or "Digital Encryption Standard" (DES) shall be applied to ensure confidentiality and authenticity.

4.5 Data Security

Access limitation to the data shall be secured via a flexible user identification and password mechanism. Each user shall be given access only to the data necessary for his task.

4.6 Security Procedures

Each Contracting Party and the NAFO Executive Secretary shall nominate a security system administrator. The security system administrator shall review the log files generated by the software, properly maintain the system security, restrict access to the system as deemed needed and act as a liaison with the Secretariat in order to solve security matters.

**Annex 5. Amendment of the Conservation and Enforcement Measures
re improvements to the hail/VMS systems**
(FC Doc. 02/19-formerly STACTIC W.P. 02/5 revised)

1. The NAFO Conservation and Enforcement Measures (CEM) do not provide for automatic communications of so-called administrative reports, i.e. notifications concerning fishing vessels operating in the Regulatory Area, cf. CEM, Part III, D. The CEM should be amended in order to allow the automatic communication of such administrative reports.

Automatic communication is understood as a system whereby such messages, defined in accordance with the syntax of the North Atlantic Format, can be submitted in computer readable form.

2. The CEM may include an optional system of Return messages (RET) whereby the sender receives verification that a message has been received with/without problems.

3. The Transhipment report should be extended to include identification of the client vessel, including whether transhipment has been to or from that vessel, by means of the field codes TT and TF.

4. A fishing vessel with a technical failure or non-operation of a defective satellite tracking device should submit manual Position reports at least every 6 hours instead of "at least daily" as required by the current rules. These messages should be submitted in computer readable form if possible, and such messages should be identified as MAN, cf. CEM, Part VI, B, paragraph 5.

5. The first VMS Position report automatically generated and communicated when a vessel enters the Regulatory Area should be identified as ENT (entry into the area), and the last automatically generated VMS Position report transmitted leaving the Regulatory Area should be identified as EXI (exit from the area).

Consequently, the codes of the current manually generated messages ENT and EXI should be changed and the following is proposed:

COE (catch on entry) instead of ENT; and

COX (catch on exit) instead of EXI, cf. CEM, Part III, Annex 1, 1.1 and 1.4

6. Automatically communicated reports required by the CEM should be transmitted via the Flag State Monitoring Centre (FMC) to the NAFO Secretariat (automatically routed to the Secretariat), cf. CEM, Part III, E, paragraph 1.

7. From 1 January 2001 all vessels fishing in the Regulatory Area shall be equipped with satellite tracking devices. According to the CEM, fishing vessels are thus no longer required to send messages concerning movement within the Regulatory Area, cf. CEM Part III, E, paragraph 4. Consequently points c) and d) of Part III, E of the CEM should be removed.

Annex 6. Proposal by the European Community
Relating to the Overhaul of NAFO Conservation and Enforcement Measures
(STACTIC W.P. 02/30-Revised)

Background

There has for a certain time been a general agreement in NAFO on the need to make a general overhaul of the NAFO Conservation and Enforcement Measures. A STACTIC meeting was convened in May 2001 for this purpose, which developed a new framework for these measures. A Drafting Group was thereafter given the task of drawing up a new text in accordance with the agreed framework. This Drafting Group met in July 2002 and produced a draft text. The Group acknowledged that further work would be required (in particular in relation to the Annexes) but was hopeful that a new text could be finalised and be submitted for adoption at the 2003 Annual Meeting.

Proposal

In order to prepare the grounds for 2003 meetings it is proposed that further progress be made inter-sessionally in accordance with the following arrangements:

- The report together with the draft text of new measures has been circulated to all Contracting Parties who are invited to present their comments on the text as well as the outstanding issues raised in the report directly to the European Community before 15 December 2002. Comments should be sent directly to Staffan.Ekwall@cec.eu.int
- The European Community shall then, on the basis of the comments by Contracting Parties, prepare an up-dated text of the Conservation and Enforcement Measures. This text shall be circulated to all Contracting Parties before 15 February 2003.
- Contracting Parties are then invited to submit their comments on the up-dated text to the European Community before 30 March 2003. The European Community will then review the text in view of the comments made and present the a new version for an intersessional Drafting Group/STACTIC meeting in 2003.
- It is furthermore proposed that the drafting group should be given the opportunity to propose amendments of substance compared to the current text, in particular those identified in Annex 4 of the document. Such amendments should however be highlighted in a separate fashion.

**Annex 7. Amendment of Conservation and Enforcement Measures –
Part I.A.5(a) and I.A.5(d)**
(FC Doc. 02/18)

Part I.A.5 (a) to include the definition of a directed fishery as follows:

- (a) Masters shall not conduct directed fisheries for species for which incidental catch limits apply. A directed fishery for a species is conducted when that species comprises the largest percentage by weight of the catch in any one haul.

Part I.A.5 (d) as follows:

- (d) The percentages in (b) and (c) are calculated as the percentage, by weight, for each species of the total catch retained onboard.

Annex 8. Review of Compliance
(STACTIC W.P. 02/14)

Pursuant to the instructions of the Fisheries Commission given at its Special Meeting in Helsingor (January 2002), STACTIC agreed to further its work on initiating an annual review of compliance and report to the Fisheries Commission as follows:

- 1) The Executive Secretary shall compile the following information:
 - a) catch statistics as provided in all tables of the “Recording of Provisional Catches” and STATLANT reports;
 - b) port inspection reports;
 - c) summary data of observer reports;
 - d) information from VMS;
 - e) information from surveillance in the NAFO Regulatory Area;
 - f) NAFO inspection reports;
 - g) hail reports (entry, exit, transshipment);
 - h) reports of disposition of apparent infringements; and
 - i) any other relevant information available to the Executive Secretary.
- 2) The Executive Secretary shall compile the information in (1) in an electronic format which permits easy comparison of data from different sources. Sample tables for this format are attached. STACTIC recommends that prior to the 2002 annual meeting the Secretariat identify technical and resource requirements for completion of the sample tables or elaborate possible alternate formats. In creating this compilation, the Executive Secretary shall identify information which has not been submitted and seek to obtain it from the Contracting Parties concerned prior to completing the compilation. The Executive Secretary shall transmit this compilation of information to all Contracting Parties no later than 60 days prior to the meeting at which the information is to be discussed.
- 3) STACTIC shall review the information compiled by the Executive Secretary, notably any discrepancies, omissions and contradictions. At the request of any Contracting Party, additional sources of information shall be examined by STACTIC.
- 4) STACTIC shall review the compliance of Contracting Parties as well as the vessels of Contracting Parties with respect to the Conservation and Enforcement Measures, using the infringements listed in part IV paragraph 9 of the Conservation and Enforcement Measures as the focal point for its first compliance review and report.
- 5) STACTIC shall include in its compliance report, if appropriate, recommendations to the Fisheries Commission to deter, reduce and/ or eliminate noncompliance in the Regulatory Area.
- 6) STACTIC recommends that it conduct the first compliance review based on 2002 data and submit its first compliance report to the 2003 annual meeting of the Fisheries Commission. STACTIC further recommends that it meet in connection with the 2003 annual meeting to conduct its first compliance review and produce its compliance report.
- 7) STACTIC observed that amendments to the rules of procedure regarding the mandate of STACTIC and the role of the Executive Secretary may be appropriate in the context of the compliance review and report. A proposal to amend paragraph 5 of the Rules of Procedure in this regard is attached.
- 8) STACTIC noted that the electronic submission of the information Contracting Parties are required to submit pursuant to the Conservation and Enforcement Measures would greatly facilitate STACTIC’s work in producing a report on compliance.

Fishing Vessel Compilation

General Note

NP denotes “not provided”, ie: that the information should have been provided but was not. NA denotes “not available” and means that the information was not collected and that there was no obligation to provide the information (eg: that the vessel was not inspected).

Catch

| Contracting Party | Vessel Name | Side Number | Trip Dates | | Division | Species | NAFO inspection report (2) | Date of NAFO inspection report | Port inspection report (1) | Observer Report | Hail Data (3) | Apparent infringement issued |
|-------------------|-------------|-------------|------------|-----|----------|---------|----------------------------|--------------------------------|----------------------------|-----------------|---------------|------------------------------|
| | | | Start | End | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

1. Catch in NAFO inspection reports, observer reports ,and hail data is reported in round weight. Catch in port inspections is reported in processed weight and will need to be converted to round weight by a factor of x.
2. Catch recorded in inspection reports is collected as of a certain date and thus cannot be compared directly to catch figures from port inspection reports and observer reports.
3. This column consists of a calculation performed by the Secretariat: (exit hail catch – entry hail catch) + transshipment hail catch = catch in the NAFO Regulatory Area.

Mesh Size

| Contracting Party | Vessel Name | Side Number | Trip Dates | | Species | Observer Measurement | NAFO inspection measurement | Port Inspection Measurement | Apparent Infringement Issued |
|-------------------|-------------|-------------|------------|-----|---------|----------------------|-----------------------------|-----------------------------|------------------------------|
| | | | Start | End | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Interference with satellite tracking systems

| Contracting Party | Vessel Name | Side Number | Trip Dates | | VMS data (1) | NAFO Inspection Report | Apparent Infringement issued |
|-------------------|-------------|-------------|------------|-----|--------------|------------------------|------------------------------|
| | | | Start | End | | | |
| | | | | | | | |
| | | | | | | | |

1. Secretariat to enter number calculated as follows: Determine the period of time the vessel spent in the NAFO Regulatory Area and the number of VMS positions it should have automatically reported for that period of time. If the actual figure reported automatically is less than the projected figure, determine if the discrepancy is compensated by manual reporting. Enter any remaining discrepancy between what the vessel should have reported and what was actually reported in this column. Note that the STACTIC working paper on “Provisions on Secure and Confidential Treatment of Electronic Reports and Messages Transmitted Pursuant to Part III E, VI and VIII of the Conservation and Enforcement Measures” will require the Executive Secretary to make this determination within 24 hours of a vessel’s departure from the NAFO Regulatory Area.
2. Observer reports (other than summary data) may also show interference with satellite tracking. Contracting Parties with information in this regard should draw it to the attention of the Executive Secretary or to STACTIC during its compliance review.

Preventing an inspector from carrying out his or her duties

| Contracting Party | Vessel Name | Side Number | Trip Dates | | NAFO Inspection Reports |
|-------------------|-------------|-------------|------------|-----|-------------------------|
| | | | Start | End | |
| | | | | | |
| | | | | | |
| | | | | | |

Contracting Party Summaries**Catch**

| Contracting Party | Division | Species | Quota | NAFO inspection report (2) | Date of NAFO inspection report | Port inspection report (1) | Observer Report | Hail Data (3) | Apparent infringement issued |
|-------------------|----------|---------|-------|----------------------------|--------------------------------|----------------------------|-----------------|---------------|------------------------------|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

1. Catch in NAFO inspection reports, observer reports ,and hail data is reported in round weight. Catch in port inspections is reported in processed weight and will need to be converted to round weight by a factor of x.
2. Catch recorded in inspection reports is collected as of a certain date and thus cannot be compared directly to catch figures from port inspection reports and observer reports.
3. This column consists of a calculation performed by the Secretariat: exit hail catch – (entry hail catch + transshipment hail catch) = catch in the NAFO Regulatory Area.

Mesh Size

| Contracting Party | Species | Observer Measurement | NAFO inspection measurement | Port Inspection Measurement | Apparent Infringement Issued |
|-------------------|---------|----------------------|-----------------------------|-----------------------------|------------------------------|
| | | | | | |
| | | | | | |

Interference with satellite tracking systems

| Contracting Party | VMS data (1) | Inspection Report | Apparent Infringement issued |
|-------------------|--------------|-------------------|------------------------------|
| | | | |
| | | | |

1. Secretariat to enter the number of vessels the VMS calculation noted in the corresponding table (fishing vessel summary) above indicates have interfered with satellite tracking systems.

Preventing an inspector from carrying out his or her duties

| Contracting Party | Inspection Reports |
|-------------------|--------------------|
| | |
| | |

**Annex 9. Amendment to the Rules of Procedure for the Fisheries Commission for
New Terms of Reference of the Standing Committee on International Control
(STACTIC) and for a Supportive Role by the Executive Secretary**
(FC Doc. 02/16-formerly STACTIC W.P. 02/8)

Rule 5.1 shall read as follows :

“There shall be a **Standing Committee on International Control (STACTIC)** which shall:

- a. review and evaluate the effectiveness of the Conservation and Enforcement Measures established by the Fisheries Commission;
- b. review and evaluate the compliance by Contracting Parties with the Conservation and Enforcement Measures established by the Fisheries Commission;
- c. review and evaluate reports on the inspection and surveillance activities carried out by the Contracting Parties;
- d. review and evaluate reports on infringements, including serious infringements, and the follow-up thereto by the Contracting Party;
- e. produce an annual report on compliance by all Contracting Parties for the preceding calendar year. The report shall be based on a comprehensive provisional compilation by the Executive Secretary of relevant reports submitted by Contracting Parties and any other information available to the Executive Secretary. This compilation shall be dispatched to all Contracting Parties together with the draft provisional agenda pursuant to Rule 4.1;
- f. promote the co-ordination of inspection and surveillance activities carried out by the Contracting Parties;
- g. develop inspection methodologies;
- h. consider the practical problems of international measures of control;
- i. consider such other technical matters as may be referred to it by the Fisheries Commission; and
- j. make appropriate recommendations to the Fisheries Commission.”

Rule 5.2

“The Executive Secretary shall assist the Committee in fulfilling its task under paragraph 5.1. When performing this task, the Executive Secretary shall in particular signal any malfunctions on issues falling under the competence of the Committee and provide the Committee with all relevant information and documentation.”

The current Rules 5.2-5.4 shall be renumbered accordingly.

**Annex 10. Amendment of the Conservation and Enforcement Measures,
Part I.K. (FC Doc. 02/17-formerly FC W.P. 02/36)**

Amend Conservation and Enforcement Measures, Part I.K. as follows:

9. In the NAFO Regulatory Area, each Contracting Party shall limit in 2003 the number of vessels fishing for shrimp in Division 3L at any time to one vessel per each Contracting Party's allocation.

Annex 11. Terms of Reference for the Working Group on the Allocation of Fishing Rights* to Contracting Parties of NAFO
(FC Working Paper 02/30-Revised)

The Fisheries Commission requests:

1. interested Contracting Parties to participate in the reconvened Working Group named above with senior-level participation;
2. the reconvened Working Group to be chaired by a representative of the European Union;
3. the Working Group to be reconvened to:

develop options whose terms are explicit and predictable for allocation to Contracting Parties from current fisheries with NAFO TACs, fisheries previously not subject to NAFO TACs, new fisheries, closed fisheries being reopened, and fisheries for which fishing rights are or will be allocated in terms other than quotas (e.g. effort limits).
4. the report of the reconvened Working Group by June 30, 2003 in order to be considered at the 25th Annual Meeting of the Fisheries Commission

*Allocation of fishing rights includes allocation of quotas as well as e.g., effort limitations.

**Annex 12. Proposal to address the issues related to timing of Scientific Advice and
Determination of TAC and/or effort control measures for the shrimp stocks
in Divisions 3L and 3M (by Canadian Delegation)**
(FC Working Paper 02/41-Revised)

BACKGROUND

The Scientific Council provided the most recent scientific advice for the shrimp stocks in Divisions 3L and 3M in November 2001. Most of the information used to provide the 2001 assessment was collected from the 2000 calendar year (e.g. catch data for 3L and 3M, Canadian 3L autumn research vessel survey, etc.). The next meeting of the Scientific Council to assess the status of these shrimp stocks is scheduled for November 2002. It would be beneficial to have the most recent scientific advice available prior to making decisions for these shrimp fisheries in 2003.

In prior years, the Fisheries Commission has met intersessionally to review the most recent scientific advice and decide upon management measures for the fishing year immediately succeeding the assessment year. Several Contracting Parties have identified that intersessional meetings of this type are a burden with respect to cost, scheduling and workload. In cases where there is a degree of stability in resource abundance, one option would be to establish multi-year TAC's. However, for the shrimp stocks in question, this degree of stability is not a recent characteristic. The 3L fishery is relatively new, with 2002 being the 3rd year of fishing activity under NAFO quota management. The scientific advice for the shrimp stock in 3M changed substantially during the most recent assessment of this stock.

PROPOSAL

At the conclusion of the next Scientific Council meeting (November 2002), if the scientific advice with respect to harvest levels for the shrimp stocks in Divisions 3L and 3M does not recommend a change different from the current level by 25% or more, it is proposed that the TAC in division 3L and/or the effort control scheme in division 3M for 2003 be the same as that for 2002. This proposal will apply to the management measures for 2003 only, based on the scientific advice coming from the November 2002 Scientific Council meeting.

This proposal would result in no change in the management measures for 3M shrimp if the recommended harvest level is within the range of 33,750 to 56,250 t. For 3L shrimp there would be no change in the TAC if the recommended harvest level is in the range of 4,500 to 7,500 t.

If the scientific advice is not consistent with the ranges above then the TAC for 3L and the effort control scheme for 3M shrimp would be based on the most recent scientific advice and decided in accordance with the NAFO mail vote procedures. The current allocation key and/or effort control scheme would apply, unless a change is agreed by mail vote.

Annex 13. Oceanic Redfish Quota
(FC W.P. 02/43-Revised)

Taking into account that NEAFC will establish the 2003 TAC for Oceanic Redfish and the associated quota table applicable to NEAFC Contracting Parties, Fisheries Commission decided to establish a quota of 7,500 tons for Oceanic Redfish in NAFO SA2 and Divisions 1F and 3K from the overall TAC to be established by NEAFC for 2003 for the NAFO Contracting Parties who are not NEAFC Contracting Parties and set an overall catch level of 25,000 t for Contracting Parties who are also Contracting Parties of NEAFC when fishing in NAFO SA2 and Divisions 1F and 3K. The fishing regulation measures and reporting system for these allocations are reflected in the footnotes of the Quota Table.

| | | Oceanic Redfish (pelagic <i>Sebastes mentella</i>) |
|---------------------------------------|---|--|
| | | <u>NAFO SA 2 and Divisions 1F and 3K</u> |
| Denmark (Faroe Islands and Greenland) | } | 25,000 ^{1);2);3)} |
| European Union | | |
| Iceland | | |
| Norway | | |
| Poland | | |
| Russia | | |
| Canada | } | 7,500 ^{1);3)} |
| Cuba | | |
| Estonia | | |
| France (St. Pierre et Miquelon) | | |
| Japan | | |
| Korea | | |
| Latvia | | |
| Lithuania | | |
| Ukraine | | |
| USA | | |

- ¹⁾ The Contracting Parties shall notify the Executive Secretary bi-weekly of catches taken by its vessels from this allocation. The Executive Secretary shall notify without delay all Contracting Parties the dates on which accumulated reported catch taken by vessels of Contracting Parties estimated equal to 50% and then 100% of that allocation.
- ²⁾ As acceptance of this decision the quantities taken from that allocation in the NAFO Convention Area by respective Contracting Parties shall be deducted from the quotas allocated to these Contracting Parties in the NEAFC Convention Area.
- ³⁾ This arrangement applies to 2003 and is without prejudice to sharing arrangements for this stock in future years.

**Annex 14. Canadian Proposal for NAFO to Establish a Precautionary TAC
for Division 3O Redfish in 2004** (FC W.P. 02/27-Revision 3)

Redfish is a long-lived species with a relatively low fecundity rate. The mature stock biomass is supported by few strong year classes, usually appearing about every 10 years. The redfish stock in Division 3O is heavily exploited before year classes reach sexual maturity. In addition, there is an increasing exploitation of the stock by fleets outside Canada's 200-mile limit with total estimated catches at 22,000t in 2001. NAFO has not established a TAC for this stock. Canada has set a TAC of 10,000t for this stock in Canadian waters based on Canadian scientific advice and recommendations from the Fisheries Resource Conservation Council. In recent years, overall catches have exceeded the Canadian TAC of 10,000t for this stock. Given that the renewed interest by various fleets in this resource in the NAFO Regulatory Area is continuing, it seems likely that the total catch will continue to exceed the Canadian TAC of 10,000t.

The Scientific Council advised that an initial conservation measure should be to bring the stock under a quota management regime that is applicable throughout the stock area. It advised that catches have averaged about 13,000t since 1960 and over the longer term, catches at this level do not appear to have been detrimental.

The current situation of an unregulated stock in the context of considerable uncertainty as to fishing mortality is contrary to the Precautionary Approach and is inconsistent with Canada's management of the resource within its exclusive economic zone.

Canada notes that the Fisheries Commission has requested that the Scientific Council provide a full assessment of Div. 3O redfish in advance of the 2003 Annual Meeting.

Based on this advice, the Fisheries Commission will consider the appropriateness of the establishment of a TAC or other management regime as appropriate in 2004.

(REVISED January 24, 2003)

QUOTA TABLE. Total allowable catches (TACs) and quotas (metric tons) for 2003 of particular stocks in Subareas 1-4 of the NAFO Convention Area. The values listed include quantities to be taken both inside and outside the 200-mile fishing zone, where applicable.

| Contracting Party | Cod | | Redfish | | American plaice | | Yellowtail | Witch | Capelin | G. halibut | Squid (<i>Illex</i>) ^{2,3} | Shrimp |
|--|----------------|----------|---------------------|----------|-----------------|-----------|---------------------|----------|----------|--------------------|---------------------------------------|---------|
| | Div. 3M | Div. 3NO | Div. 3M | Div. 3LN | Div. 3M | Div. 3LNO | Div. 3LNO | Div. 3NO | Div. 3NO | Div. 3LMNO | Subareas 3+4 | Div. 3L |
| 1. Canada | 0 | 0 | 500 | 0 | 0 | 0 | 14137 ⁷ | 0 | 0 | 4 668 | N.S. ⁴ | 10 833 |
| 2. Cuba | 0 | - | 1750 | 0 | - | - | - | - | 0 | - | 510 | 144 |
| 3. Denmark (Faroe Islands and Greenland) | 0 | - | 69 | - | - | - | - | - | - | - | - | 144 |
| 4. European Union | 0 | 0 | 3100 | 0 | 0 | 0 | 290 ⁷ | - | 0 | 17 226 | N.S. ⁴ | 144 |
| 5. France (St. Pierre et Miquelon) | - | - | 69 | - | - | - | - | - | - | - | 453 | 144 |
| 6. Iceland | - | - | - | - | - | - | - | - | - | - | - | 144 |
| 7. Japan | - | - | 400 | - | - | - | - | - | 0 | 3 189 | 510 | 144 |
| 8. Korea | - | - | 69 | - | - | - | - | - | - | - | 453 | 144 |
| 9. Norway | 0 | - | - | - | - | - | - | - | 0 | - | - | 144 |
| 10. Poland | 0 | - | - | - | - | - | - | - | 0 | - | 227 | 144 |
| 11. Estonia | | | | | | | | | | | | 144 |
| 12. Latvia | } | 0 | 13 850 ¹ | 0 | 0 | - | - | 0 | 0 | - | 1 133 ¹ | 144 |
| 13. Lithuania | | | | | | | | | | | | 144 |
| 14. Russia | | | | | | | | | | | | 144 |
| 15. Ukraine | | | | | | | | | | | | 144 |
| 16. United States of America | - | - | 69 | - | - | - | - | - | - | - | 453 | 144 |
| 17. Others | 0 | 0 | 124 | 0 | 0 | 0 | 73 ⁷ | 0 | - | 2 070 ⁵ | 794 | 0 |
| Total Allowable Catch | * ⁹ | * | 5 000 ⁶ | * | * ⁹ | * | 14 500 ⁸ | * | * | 31 122 | 34 000 | 13 000 |

¹ 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.

² The opening date for the Squid (*Illex*) fishery is 1 July.

³ Any quota listed for squid may be increased by a transfer from any "coastal state" as defined in Article 1, paragraph 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.

⁴ Not specified because the allocation 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.

⁵ Of which no more than 60% (1242 t) may be fished before 1 May 2003..

⁶ Each Contracting Party shall notify the Executive Secretary bi-weekly of catches taken by its vessels from this stock. Not more than 2500 tons may be fished before July 1, 2003. The Executive Secretary shall notify without delay all Contracting Parties of the date on which, for this stock, accumulated reported catch taken by vessels of the Contracting Parties is estimated to equal 50 and then 100 percent of the TAC for that stock.

⁷ Contracting Parties shall inform the NAFO Executive Secretary before (1 December 2002) of the measures to be taken to meet the advice of the NAFO Scientific Council, i.e. to ensure that total catches do not exceed the levels indicated.

⁸ The provisions of Part I, Section A.5c) of NAFO Conservation and Enforcement Measures shall apply.

⁹ Applicable to 2003 and 2004.

*No directed fishing – The provisions of Part I, Section A.5a and c of NAFO Conservation and Enforcement Measures shall apply.

| | | Oceanic Redfish (pelagic <i>Sebastes mentella</i>) |
|---|---|--|
| | | NAFO SA 2 and Divisions 1F and 3K |
| Denmark (in respect of Faroe Islands and Greenland) | } | 25,000 ^{1);2);3)} |
| European Union | | |
| Iceland | | |
| Norway | | |
| Poland | | |
| Russia | | |
| Canada | } | 7,500 ^{1);3)} |
| Cuba | | |
| Estonia | | |
| France (St. Pierre et Miquelon) | | |
| Japan | | |
| Korea | | |
| Latvia | | |
| Lithuania | | |
| Ukraine | | |
| USA | | |

- ¹⁾ The Contracting Parties shall notify the Executive Secretary bi-weekly of catches taken by its vessels from this allocation. The Executive Secretary shall notify without delay all Contracting Parties the dates on which accumulated reported catch taken by vessels of Contracting Parties estimated equal to 50% and then 100% of that allocation.
- ²⁾ As acceptance of this decision the quantities taken from that allocation in the NAFO Convention Area by respective Contracting Parties shall be deducted from the quotas allocated to these Contracting Parties in the NEAFC Convention Area.
- ³⁾ This arrangement applies to 2003 and is without prejudice to sharing arrangements for this stock in future years.

**Annex 16. Fisheries Commission's Request for Scientific Advice on Management
in 2004 of Certain Stocks in Subareas 2, 3 and 4**
(FC Doc. 02/22 – formerly FC W.P. 02/39, revised)

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 2003 Annual Meeting, provide advice on the scientific basis for the management of the following fish and invertebrate stocks or groups of stocks in 2004:

Shrimp (Div. 3M, 3LNO)
Greenland halibut (Subarea 2 and Div. 3KLMNO)
Capelin (Div. 3NO)

2. 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 2003 Annual Meeting, provide advice on the scientific basis for the management of the following fish stocks on an alternating year basis:

Cod (Div. 3NO; Div. 3M)
Redfish (Div. 3M; Div. 3LN)
Yellowtail flounder (Div. 3LNO)
American plaice (Div. 3LNO; Div. 3M)
Witch flounder (Div. 2J3KL; Div. 3NO)
Squid (Subareas 3 and 4)

- In 2002, advice was provided for 2003 and 2004 for cod in 3M, American plaice in 3M, yellowtail flounder in 3LNO, witch flounder in 3NO and squid in SA 3&4. These stocks will next be assessed in 2004.
- In 2003, advice will be provided for 2004 and 2005 for cod in 3NO, American plaice in 3LNO, witch flounder in 2J3KL, redfish in 3M and redfish in 3LN. These stocks will next be assessed in 2005.

The Fisheries Commission requests the Scientific Council to continue to monitor the status of all these stocks annually and, should a significant change be observed in stock status (e.g. from surveys) or in by-catches in other fisheries, provide updated advice as appropriate.

3. The Fisheries Commission with the concurrence of the Coastal State requests Scientific Council, at a meeting in advance of the 2003 Annual Meeting, provide advice on the scientific basis for the management of redfish in Div. 3O including recommendations regarding the most appropriate TAC for 2004 and 2005. This stock will be assessed in alternate years thereafter.
4. The Commission and the Coastal State request the Scientific Council to consider the following in assessing and projecting future stock levels for those stocks listed above:
 - a) The preferred tool for the presentation of a synthetic view of the past dynamics of an exploited stock and its future development is a stock assessment model, whether age-based or age-aggregated.
 - b) For those stocks subject to analytical-type assessments, the status of the stocks should be reviewed and management options evaluated in terms of their implications for fishable stock size in both the short and long term. As general reference points, the implications

of fishing at $F_{0.1}$ and F_{2002} in 2004 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.

- c) 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.
- d) For those resources for which only general biological and/or catch data are available, few standard criteria exist on which to base advice. The stock status should be evaluated in the context of management requirements for long-term sustainability and the advice provided should be consistent with the precautionary approach.
- e) Spawning stock biomass levels considered necessary for maintenance of sustained recruitment should be recommended for each stock. In those cases where present spawning stock size is a matter of scientific concern in relation to the continuing reproductive potential of the stock, management options should be offered that specifically respond to such concerns.
- f) Information should be provided on stock size, spawning stock sizes, recruitment prospects, fishing mortality, catch rates and TACs implied by these management strategies for the short and the long term in the following format:
 - I. For stocks for which analytical-type assessments are possible, graphs should be provided of all of the following for the longest time-period possible:
 - historical yield and fishing mortality;
 - spawning stock biomass and recruitment levels;
 - catch options for the year 2004 and subsequent years over a range of fishing mortality rates (F) at least from $F_{0.1}$ to F_{max} ;
 - spawning stock biomass corresponding to each catch option;
 - yield-per-recruit and spawning stock per recruit values for a range of fishing mortalities.
 - II. For stocks for which advice is based on general production models, the relevant graph of production as a function of fishing mortality rate or fishing effort should be provided. Age-aggregated assessments should also provide graphs of all of the following for the longest time-period possible:
 - exploitable biomass (both absolute and relative to B_{MSY})
 - yield/biomass ratio as a proxy for fishing mortality (both absolute and relative to F_{MSY})
 - estimates of recruitment from surveys, if available.
 - III. Where analytical methods are not attempted, the following graphs should be presented, for one or several surveys, for the longest time-period possible:
 - time trends of survey abundance estimates, over:
 - an age or size range chosen to represent the spawning population
 - an age or size-range chosen to represent the exploited population
 - recruitment proxy or index for an age or size-range chosen to represent the recruiting population.

- fishing mortality proxy, such as the ratio of reported commercial catches to a measure of the exploited population.

For age-structured assessments, yield-per-recruit graphs and associated estimates of yield-per-recruit based reference points should be provided. In particular, the three reference points, actual F , $F_{0.1}$ and F_{\max} should be shown.

5. Noting the progress made by the Scientific Council on the development of a framework for implementation of the Precautionary Approach, the Fisheries Commission requests that the Scientific Council provide the following information for the 2003 Annual Meeting of the Fisheries Commission for stocks under its responsibility requiring advice for 2004, or 2004 and 2005:
 - a) the limit and target precautionary reference points as described in Annex II of the UN Fisheries Agreement indicating areas of uncertainty (when precautionary reference points cannot be determined directly, proxies should be provided);
 - b) information including medium term considerations and associated risk or probabilities which will assist the Commission in developing the management strategies described in paragraphs 4 and 5 of Annex II in the Agreement;
 - c) information on the research and monitoring required to evaluate and refine the reference points described in paragraphs 1 and 3 of Annex II of the Agreement; these research requirements should be set out in the order of priority considered appropriate by the Scientific Council;
 - d) any other aspect of Article 6 and Annex II of the Agreement which the Scientific Council considers useful for implementation of the Agreement's provisions regarding the precautionary approach to capture fisheries;
 - e) propose criteria and harvest strategies for re-opening of fisheries and for new and developing fisheries; and
 - f) to work toward the harmonization of the terminology and application of the precautionary approach within relevant advisory bodies.
6. In addition, the following elements should be taken into account by the Scientific Council when considering the precautionary approach:

- a) Many of the stocks in the NAFO Regulatory Area are well below any reasonable level of B_{\lim} or B_{buf} . For these stocks, the most important task for the Scientific Council is to inform on how to rebuild the stocks. In this context and building on previous work of the Scientific Council in this area, the Scientific Council is requested to evaluate various scenarios corresponding to recovery plans with timeframes of 5 to 10 years, or longer as appropriate. This evaluation should provide the information necessary for the Fisheries Commission to consider the balance between risks and yield levels, including information on the consequences and risks of no action at all.

References to "risk" and to "risk analyses" should refer to estimated probabilities of stock population parameters falling outside biological reference points.

- b) Where reference points are proposed by the Scientific Council as indicators of biological risk, they should be accompanied by a description of the nature of the risk incurred if the reference point is crossed (e.g. short-term risk of recruitment overfishing, loss of long-term yield, etc.)
- c) When a buffer reference point is proposed in order to maintain a low probability that a stock, measured to be at the buffer reference point, may actually be at or beyond the

limit reference point, the Scientific Council should explain the assumptions made about the uncertainty with which the stock is measured, and also the level of 'low probability' that is used in the calculation.

- d) Wherever possible, short and medium term consequences should be identified for various exploitation rates (including no fishing) in terms of yield, stability in yield from year to year, and the risk or probability of moving the stock beyond B_{lim} or B_{buf} . Whenever possible, this information should be cast in terms of risk assessments relating fishing mortality rates to the risks of falling below B_{lim} and B_{buf} , as well as of being above F_{lim} and F_{buf} , the risks of stock collapse and recruitment overfishing, as well as the risks of growth overfishing and the consequences in terms of both short and long term yields.
 - e) When providing risk estimates, it is very important that the time horizon be clearly spelled out. By way of consequence, risks should be expressed in timeframes of 5, 10 and 15 years (or more), or in terms of other appropriate year ranges depending on stock specific dynamics. Furthermore, in order to provide the Fisheries Commission with the information necessary to consider the balance between risks and yield levels, each harvesting strategy or risk scenario should include, for the selected year ranges, the risks and yields associated with various harvesting options in relation to B_{lim} (B_{buf}) and B_{target} , and F_{lim} (F_{buf}) and F_{target} .
7. The Fisheries Commission with the concurrence of the Coastal State requests Scientific Council, at a meeting in advance of the 2003 Annual Meeting, to consider options available for the provision of annual advice as regards shrimp in Div. 3LNO and 3M in advance of the Annual Meetings.
 8. Regarding pelagic *S. mentella* redfish in NAFO Subareas 1-3, the Scientific Council is requested to review the most recent information on the distribution of this resource, as well as on the affinity of this stock to the pelagic redfish resource found in the ICES Sub-area XII, parts of SA Va and XIV and to the shelf stocks of redfish found in ICES Sub-areas V, VI and XIV, and NAFO Subareas 1-3.
 9. With respect to thorny skate in Divisions 3LNO, the Fisheries Commission with the concurrence of the Coastal State requests Scientific Council, at a meeting in advance of the 2003 Annual Meeting to provide the following:
 - a) Information on exploitation rates in recent years, as well as information on by-catches of other groundfish in the 3LNO skate fishery;
 - b) Information on abundance indices and the distribution of the stock in relation to groundfish resources, particularly for the stocks which are under moratorium;
 - c) Information on the distribution of thorny skate in Divisions 3LNO, as well as a description of the relative distribution inside and outside the NAFO Regulatory Area;
 - d) Advice on reference points and conservation measures that would allow for exploitation of this resource in a precautionary manner;
 - e) Information on annual yield potential for this stock in the context of (d) above;

- f) Identification and delineation of fishery areas and exclusion zones where fishing would not be permitted, with the aim of reducing the impact on the groundfish stocks which are under moratorium, particularly juveniles;
- g) Determination of the appropriate level of research that would be required to monitor the status of this resource on an ongoing basis with the aim of providing catch options that could be used in the context of management by Total Allowable Catch (TAC); and
- h) Information on the size composition in the current catches and comment on these sizes in relation to the size at sexual maturity.

PART II

Report of the Standing Committee on International Control (STACTIC)

1. Opening of the Meeting

The Chairman, Mr. David Bevan (Canada), opened the meeting at 10:00 on September 16, 2002. Representatives from the following Contracting Parties were present: Canada, Cuba, Denmark (in respect of Faroe Islands and Greenland), Estonia, the European Union, Iceland, Japan, Latvia, Lithuania, Norway, Russian Federation, the Ukraine and the United States.

2. Appointment of Rapporteur

Mr. Paul Steele (Canada) was appointed rapporteur.

3. Adoption of the Agenda

One amendment to the agenda was proposed and accepted, i.e. the addition of the review of the Observer/VMS scheme as an issue under agenda item 7. The revised agenda was accepted (see Annex 1).

4. Review of Annual Returns on Infringements

The Secretariat introduced STACTIC Working Papers 02/21 and 02/25.

The representative from Japan pointed out an error in Working Paper 02/25 with respect to the date of inspection for the Japanese vessel Zuiho Maru No. 88. The Secretariat agreed to correct this.

The Chairman requested that Contracting Parties provide any additional relevant information to the NAFO Secretariat at the earliest opportunity.

5. Review of Surveillance and Inspection Reports

The Secretariat introduced STACTIC Working Paper 02/22.

The representative from Canada provided a verbal report regarding Canadian surveillance activities in the NAFO Regulatory Area in 2000 and 2001. Written reports (STACTIC Working Papers 02/27 and 02/28) were later circulated.

The representative from the United States questioned the reference in the Canadian report to 14 sightings of US vessels in 2001. The representative from Canada advised that this relates to sightings of US swordfish vessels. As these vessels were not fishing for NAFO-managed stocks, the reference to them will be deleted from the report.

6. Review of Operation of the Automated Hail/VMS System

The Secretariat introduced STACTIC Working Paper 02/24. He indicated that there have been no major changes in the operation of the automated hail system since he gave his report at the last STACTIC meeting in May, 2002. Most Contracting Party vessels are providing automatic

position reports, but some entries are still being made manually. He noted that some manual reports received indicate failure of the VMS system, but at the present time there is no way to distinguish between these reports and the regular positional reports received automatically.

The Secretariat indicated that a cost estimate of \$45,000 has been received for implementing the changes to the automated reporting system that had been proposed by Norway at the May, 2002 STACTIC meeting (STACTIC Working Paper 02/5). The Chairman advised that, since the Fisheries Commission has approved the Norwegian proposal as well as the proposal made by Denmark with respect to confidentiality (STACTIC Working Paper 01/15 and corrigendum), he will advise the STACFAD Chairman of the \$45,000 funding requirement.

The representative from Iceland stated that the contractor doing the work for the NAFO Secretariat has indicated that an additional amount of approximately \$30,000 (for a total of \$75,000) would be required to ensure that the automated reporting system could handle the reports that would be required if the Icelandic proposal for changes to the observer program were to be adopted.

7(a). Observer Program and Scientific Requirements

The discussion focussed on a paper titled Harmonized NAFO Observer Program Data System Proposal (NAFO SCS Doc. 00/23). This document had been developed by the Scientific Council to define scientific requirements for observer program data.

The Chairman stated that this issue, including the need to standardize and automate observer reports and the associated cost implications, has been brought to the attention of the Fisheries Commission. He noted that further work must be done by STACTIC to develop cost estimates associated with the implementation of these changes. It was agreed that this issue should be addressed as part of the review of the NAFO Observer /VMS Scheme (see agenda item 7(b) below).

7(b). Review of the NAFO Observer/VMS Scheme

At the May, 2002 STACTIC meeting Contracting Parties were requested to provide information to the Secretariat regarding surveillance costs for 2001 as well as data on infringements, fishing effort and inspections conducted during the period of 1998-2001.

The Secretariat introduced STACTIC Working Paper 02/23, which summarized the information received from Contracting Parties to date. He indicated that some information on inspections and infringements has not yet been provided. The Chairman asked that Contracting Parties provide the required information to the Secretariat as soon as possible.

The representative from the European Union stated that STACTIC should consider how to proceed with the evaluation of the effectiveness of the scheme once all the required information is compiled.

The representative from Canada agreed, and suggested that the first step of the evaluation could be an assessment of whether all Contracting Parties have fully implemented the scheme and currently meet all requirements set out in the Conservation and Enforcement Measures with respect to observers and VMS.

A small working group was then formed to draft terms of reference for the review of the Observer/VMS scheme. The approved terms of reference are attached (STACTIC Working Paper 02/31).

It was agreed that a recommendation will be made to the Fisheries Commission that the existing Part VI of the NAFO Conservation and Enforcement Measures remain in effect in 2003 pending completion of the review of the Observer/VMS scheme.

8. Discussion of the Conservation and Enforcement Measures as the follow-up of STACTIC May 2002 Meeting

A discussion took place regarding the proposal that Iceland had presented to the Fisheries Commission on 17 September 2002 regarding an alternative observer program (NAFO/FC Doc. 02/26). It was agreed that, while there appeared to be a certain level of support for the general thrust of the Icelandic proposal, issues such as the scope of the pilot project and the method of evaluation had to be resolved by STACTIC before the Fisheries Commission could give further consideration to the proposal.

The representative from the European Union suggested that, as a pilot, the project should be limited to a small number of vessels. He also stated that the project should not be restricted to only one area and/or fishery.

The representative from Canada expressed concern about the potentially wide scope of the project, which could result in a large number of vessels fishing in the Regulatory Area without observers. He also stated that the 20% coverage level seems to have been selected in an arbitrary manner, and that rigorous analysis is required to determine an appropriate coverage level.

The representative from Denmark (in respect of the Faroe Islands and Greenland) stated that 20% coverage is not sufficiently high to ensure the statistical validity of the observer data and therefore he is hesitant to support the Icelandic proposal.

The representative from Iceland indicated that the actual coverage level would be greater than 20% due to the fact that many Contracting Parties will have less than five vessels fishing in the Regulatory Area. He also stated pointed out that the pilot project would be restricted to only those Contracting Parties that have the technical capabilities required to participate.

The representative from Canada noted that although some Contracting Parties do not currently have the technical capability, they may acquire it in the next few years, and therefore there would be the potential for large numbers of vessels to fish without observers in future years.

The representative from Russia stated that it is too early to implement the Icelandic proposal for groundfish. He stated that the proposal should apply to the shrimp fishery only and that the coverage should be at the level of 75-80%, not 20%.

The representative from Japan agreed that 20% coverage goes too far. He stated that further study is required to determine an appropriate level of coverage. He also stated that the pilot project should apply not only to the shrimp fishery but also the groundfish fisheries.

The representative from Canada noted that there continue to be a number of practical issues regarding the Icelandic proposal that have not yet been addressed. For example, he said it's unclear what information would be received from the vessels, how it would be reviewed and how decisions would be made on the appropriate follow-up action following analysis of the information. He also questioned whether there is an opportunity for a limited number of Contracting Parties to cooperate on a small scale pilot project rather than implementing the project on a larger scale involving all Contracting Parties.

The representative from Norway suggested that a pilot project could involve 50% coverage rather than 20%, with a maximum of five vessels from any one Contracting Party operating without observers. He suggested that the evaluation table developed by STACTIC in 1998 could be used as the basis for an evaluation framework for the pilot project.

The representative from Canada indicated that there should be no need for five vessels per Contracting Party to participate in the pilot project. His view is that the concept could be effectively tested with a much smaller number of vessels.

The representative from Norway pointed out that some Contracting Parties have less than 5 vessels present in the Regulatory Area and there are also a number of Contracting Parties that do not meet the technical requirements for participation in the Pilot Project.

The representative from the United States suggested that the pilot project should be limited to the shrimp fishery, with 50% observer coverage and a limit of two vessels per Contracting Party. He suggested that the pilot project be of two years duration and that the implementation costs be borne by the participating Contracting Parties.

The representative from the European Union indicated that the European Union is not in favour of restricting the pilot project to only one area or fishery.

The representative from Iceland stated that the pilot project would provide a good tool for evaluating the level of compliance in mixed fisheries.

The representative from the European Union suggested that a pilot project could be developed involving a relatively small number of vessels, 50% of which would be allowed to fish without observers. For example, if a total sample of 10 vessels is agreed upon, all of those vessels would have observers onboard upon entering the NAFO Regulatory Area. Observers would be removed from five of those vessels, but only after the communications equipment and capabilities have been fully tested and shown to be working properly.

The representative from Norway expressed support for the European Union suggestion, but stated a preference for a larger number of vessels, e.g. ten vessels without observers rather than five.

The representative from Iceland indicated that the European Union and Norwegian suggestions are worthy of consideration and that Iceland is willing to work with Contracting Parties to further develop these ideas.

The representative from the European Union suggested that a small working group be asked to further develop the details of the pilot project, e.g. scope and evaluation criteria.

The representatives from Norway, Denmark (in respect of the Faroe Islands and Greenland), Iceland, Japan, and the United States indicated their support for this approach.

The Chairman stated that he will bring this recommendation forward in his report to the Fisheries Commission.

9. Discussion of Possible Amendments to the Conservation and Enforcement Measures(Task from the Fisheries Commission)

The Chairman noted that the Fisheries Commission has approved two elements of STACTIC Working Paper 02/15, i.e. the amended definition of a directed fishery and the amended method

for calculating bycatch. He noted that the current bycatch limits will remain in place for the present time, and will be subject to review by STACTIC at a later date.

10. Report of the Drafting Group on the Review of the Conservation and Enforcement Measures

The representative from the European Union provided an update regarding the project undertaken by a drafting group comprised of representatives from the European Union, the United States and Canada. The drafting group had been given a mandate to identify and remove redundancies and inconsistencies in the NAFO Conservation and Enforcement Measures.

The report of the drafting group, including a draft revision of the Measures, was circulated to STACTIC delegates. The representative from the European Union introduced STACTIC Working Paper 02/30 (Revised), which outlined the process for finalizing the amendments to the Measures. The report and draft Measures, together with revised annexes to be developed by Canada, will be circulated electronically to all Contracting Parties, with comments requested before December 15, 2002. Another draft of the Measures will be circulated before February 15, 2003, with comments requested by March 30, 2003. A final draft will be reviewed at an intersessional meeting of STACTIC and at the 2003 annual meeting of NAFO.

There was agreement to follow the process outlined above.

The drafting group has identified a number of issues that will require further guidance from STACTIC. These issues are described in Annex 4 of the drafting group's report. The Chairman asked that Contracting Parties provide comments on these issues at the same time that they submit comments on the draft revisions to the Measures.

11. Time and Place of the Next Meeting

STACTIC recommends that there be intersessional meetings of STACTIC and its working groups as follows:

- that the STACTIC Working Group on Modernization of the Conservation and Enforcement Measures meet preferably by phone to conclude the redrafting of the Conservation and Enforcement Measures prior to the June intersessional meeting of STACTIC;
- that the STACTIC Working Group on the Pilot Project on Observers meet prior to the June intersessional meeting to develop the scope and evaluation criteria for the pilot project;
- that STACTIC meet intersessionally in June to review the Conservation and Enforcement Measures, the scope and evaluation criteria of the Pilot Project, to review the observer and VMS Scheme and initiate work on a compliance report.

12. Other Matters

The representative from Estonia asked for clarification of Section I.K.9 of the Conservation and Enforcement Measures, which states that "each Contracting Party shall limit in 2002 the number of vessels fishing for shrimp in Division 3L at any time to one vessel." He stated that this provision is unclear as it relates to charter operations. He questioned whether a Contracting Party

could operate more than one vessel in Division 3L if the additional vessels were chartered to other Contracting Parties.

The Chairman noted that the Fisheries Commission is addressing the issue of charter vessel arrangements. He stated that the question raised by Estonia will be brought to the attention of the Fisheries Commission.

13. Adoption of Report

The report was adopted by STACTIC on 19 September 2002.

14. Adjournment

The meeting adjourned on 19 September 2002.

Annex 1. Agenda

1. Opening by the Chairman, D. Bevan (Canada)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Review of Annual Returns of Infringements
 - a) review of disposition of outstanding infringements by Contracting Parties
5. Review of Surveillance and Inspection Reports
6. Review of Operation of the Automated Hail/VMS system
7.
 - a) Observer Program and Scientific Requirements
 - b) Review of the NAFO Observer/VMS Scheme
8. Discussion of the Conservation and Enforcement Measures as the follow-up of STACTIC May 2002 (Copenhagen) Meeting:
9. Discussion of possible amendments to the Conservation and Enforcement Measures (Task from the Fisheries Commission)
10. Report of the Drafting Group on the Review of the Conservation and Enforcement Measures
11. Time and Place of the Next Meeting
12. Other Matters
13. Adoption of Report
14. Adjournment

SECTION IX

(pages 423 to 453)

**Report of the STACTIC Working Group
(pilot project) Meeting
18-20 November 2002
London, United Kingdom**

| | |
|--|-----|
| Report of the STACTIC Working Group (pilot project) Meeting | 425 |
| 1. Opening of the Meeting | 425 |
| 2. Appointment of the Rapporteur | 425 |
| 3. Adoption of the Agenda..... | 425 |
| 4. Presentation of a Pilot Project..... | 425 |
| 5. Review and Evaluation of the Pilot Project | 425 |
| 6. Proposals and Recommendations..... | 426 |
| 7. Other Business | 427 |
| 8. Next Meetings..... | 428 |
| 9. Adjournment..... | 428 |
| Annex 1. List of Participants | 429 |
| Annex 2. Agenda..... | 432 |
| Annex 3. Paper presented by Canada | 433 |
| Annex 4. Discussion Points..... | 445 |
| Annex 5. Working Paper Concerning a Pilot Project on Observers, Satellite Tracking and Electronic Reporting | 446 |
| Annex 6. Request for Quotation | 453 |

Report of the STACTIC Working Group (pilot project)

(FC Doc. 02/23)

**18-20 November 2002
London, United Kingdom**

1. Opening of the Meeting

The Chair of STACTIC, Mr. David Bevan (Canada), opened the meeting on Monday, November 18, 2002 at 10:00 am and welcomed delegates to London.

The list of delegates is attached in Annex 1.

2. Appointment of the Rapporteur

Mr. Robert Steinbock (Canada) was appointed as Rapporteur.

3. Adoption of the Agenda

It was agreed to discuss the review of the current NAFO Program for Observers and Satellite Tracking and the overhaul of the NAFO Conservation and Enforcement Measures under Agenda Item 7 - Other Business. The provisional agenda was thus adopted (Annex 2).

4. Presentation of a Pilot Project

It was agreed that both FC Working Papers 02/26 and 02/42 should be the basis for discussion of the Pilot Project.

5. Review and Evaluation of the Pilot Project

With the concurrence of the Working Group, the delegate of Canada made a presentation that outlined its position on a number of steps that should precede any change to the current observer program and the preparations necessary for the June 2003 STACTIC intersessional meeting. He presented STACTIC W.G. (Pilot Project) W.P. 02/1 (Annex 3) that raised a series of operational questions with respect to elements of the current proposal for a pilot project on observers, satellite tracking and electronic reporting.

The delegate of the U.S. advised that the pilot would be difficult to support without answering the questions raised by the Canadian presentation. The delegate of Iceland thanked Canada for its presentation that raised a number of valid concerns but believed that some may be a result of misunderstanding. The delegate of the EU thanked Canada for the presentation and noted that there were some misunderstandings that could be easily clarified. He felt optimistic in agreeing on a technical text and that the main thrust of the Canadian concerns could be accommodated. He also felt, in particular, that the contribution of the pilot project would lead to overall improvement of the control scheme.

It was agreed to develop a single text for the pilot based on F.C. Working Papers 02/26 and 42 and incorporating replies to the questions raised by Canada. The delegate of Iceland presented a paper that raised a number of points for discussion (Annex 4).

Following consultations among a number of delegates, Canada introduced STACTIC W.G. (pilot project) W.P. 02/2 that incorporated changes to the text that was reflected in bold. Extensive discussions followed on the various changes leading to a consensus on the technical aspects which are reflected in STACTIC W.G. (pilot project) W.P. 02/2 (REVISION 3) (Annex 5).

It was noted that the complexity of the analyses will depend in large part on the scope for the pilot project. The delegate of the EU suggested avoiding reference to specific fisheries as all fisheries were needed to be included to compare the pilot project against the current regime. The delegate of the U.S. stated that if agreement could be found on the more simple analysis, i.e. in the 3M shrimp fishery, ways could be found to apply the analysis to other fisheries. The delegate of Canada cautioned against any analysis based on the lowest common denominator and suggested the need to consider the most complex situations.

The delegate of Denmark (on behalf of the Faroe Islands and Greenland) outlined the domestic experience in Greenland with respect to comparisons of observed and unobserved vessels. Analysis has resulted in some cases to fishery closures or the embarkation of an observer on a vessel on a subsequent trip. He stated that it is very difficult to draw any conclusions or extrapolations to other vessels – and indeed such evidence could be questioned.

Some delegations noted that given the wide variability in catches and the different types of vessels, agreement is needed on the standard for a discrepancy that would warrant a flag for further consideration and possible action. There was a consensus that data is to be compiled by the Secretariat for use by Contracting Parties with an inspection presence in the Regulatory Area; the decision to inspect a fishing vessel should not be triggered by the analysis of the data but should remain the decision of the inspector. The EU and Iceland consulted to develop proposed text with respect to comparison of species caught and catch rates for inclusion in the Working Paper. There was a consensus that some flexibility should be afforded to the Executive Secretary in the format of the report presentation to be sent to Contracting Parties with an inspection presence.

6. Proposals and Recommendations

It was agreed to recommend the following for review as appropriate:

- Statement of Work for Contractor – modification of software for the pilot. The delegate of Iceland will pursue this further.
- Statement of Work for Contractor to be reviewed and approved by the Technical WG – by conference call
- Secretariat to advise on costs
- Work to be done, validated and tested

With respect to the Statement of Work for the Contractor, the delegate of Iceland prepared a request for quotation for the Contractor as outlined in STACTIC W.G. (pilot project) W.P. 02/3 (REVISED) Annex 6). He noted that the previous estimate was Cdn \$30,000 but was uncertain whether this was still the case. It was agreed that the request would provide sufficient flexibility to take account of any changes in data requirements in the future.

The delegate of the EU proposed that since the Working Group had agreed upon a package, the Working Group should recommend it to the Fisheries Commission for adoption by mail vote in early 2003 in order that the pilot project could be launched in 2003.

The delegates of Iceland, Denmark (on behalf of the Faroe Islands and Greenland) and Norway also expressed in favour of the suggested procedure. The delegate of Iceland stated its

concurrence with the EU on the procedure for this meeting. The Icelandic delegate stated that Iceland had interpreted the outcome of the annual meeting and the fact that this meeting was established so soon after the annual meeting to be an indicator of the will of Contracting Parties to speed up the procedure concerning this Pilot Project. The delegate of Iceland seconded the view of regret by Denmark and EU that if the process is not accelerated, the Pilot Project will not take place until after the next meeting of the Fisheries Commission. In the meantime, we would all have to listen to the non-compliance report by Canada at the annual meeting and consider why we in the meantime had not done anything to improve the system.

The delegate of Canada stated that while good progress had been made in producing a technically sound document (W.P. 02/2 (REVISION 3)), the process agreed at the September NAFO annual meeting was for the Working Group to make recommendations to STACTIC for its approval in June 2003 and subsequent submission to the Fisheries Commission. He understood that the meeting was intended to review the technical aspects of a pilot project and that he could not agree on the scope of the pilot project as this was in the political realm. Delegates of Russia, USA and Japan concurred with Canada on the process and that the EU suggestion was a significant departure on the agreement reached at NAFO.

The delegate of the EU observed that the provisional agenda for the Working Group meeting could not be an exact indication of the process as it was established through a speedy procedure agreed at the 2002 annual meeting. He opined that the Fisheries Commission Rules of Procedure did not provide for the possibility for STACTIC to set up a formal Working Group and that the results agreed at the Working Group could be submitted to the Fisheries Commission for adoption. The delegate of Denmark (on behalf of the Faroe Islands and Greenland) agreed that Working Group meeting was set up in a rush which reflected that the Fisheries Commission wish for a speedy procedure for adoption. The delegate of Canada stated that there was no consensus on the scope and W.P. 02/2 (REVISION 3) could not be regarded as a consensus document. The Chairman reviewed the report from STACTIC at the NAFO annual meeting as approved by the Fisheries Commission that indicated the agreement on process.

The delegate of the EU stated if there is agreement on the importance of the pilot project and there is a real desire to launch it as soon as possible, then the debate on procedure reflects a sad situation. The delegate of Canada also regarded the pilot as important but reiterated that there was no consensus on the scope. Denmark expressed regret that if the process is not accelerated, then the pilot will not take place until 2004.

7. Other Business

With respect to the Review of the Observer Scheme, the delegate of the EU noted that the NAFO Secretariat had sent a recent reminder letter to Contracting Parties (GF/02-653) to respond to the tables and questionnaires for purposes of evaluation of the observer scheme. He stated that it was important that all Parties complete the questionnaire without delay with respect to observers and VMS in Annex 3 of FC Doc. 02/11. The Working Group agreed that the compilation of responses is important and an essential part of the process. Mr. Gordon Moulton of the NAFO Secretariat confirmed that the Secretariat would follow up with Contracting Parties.

With respect to the overhaul of the NAFO Conservation and Enforcement Measures, the delegate of the U.S. reminded delegates of the deadline of December 15, 2002 for Contracting Parties to submit comments to the EU with a view to finalizing this work at the June 2003 STACTIC meeting.

The delegate of Canada advised that it had engaged a consultant to undertake work on a port inspection protocol for vessels fishing in the NAFO Regulatory Area and an Annex which addresses standard operating procedures for inspections. Copies were distributed to delegates and an electronic version was made available to the Secretariat for distribution to all NAFO Contracting Parties.

8. Next Meetings

A technical Working Group to review the statement of work for the Contractor will be held via conference call in early 2003. The Chair of STACTIC will coordinate the conference call once names of participants have been identified through the Secretariat. The STACTIC intersessional meeting will be held June 16-20, 2003 in Copenhagen.

9. Adjournment

The meeting was adjourned on Wednesday, November 20, 2002 at 11:30 am.

Annex 1. List of Participants

CANADA

Head of Delegation

L. Strowbridge, Director, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709 772 8021 - Fax: +709 772 2046 - E-mail: strowbridgel@dfo-mpo.gc.ca

Advisers

D. Bevan, Director-General, Resource Management, Dept. of Fisheries and Oceans, 200 Kent Street, Ottawa, Ontario K1A 0E6

Phone: +613 990 6794 – Fax +613 954 1407 – E-mail: bevand@dfo-mpo.gc.ca

J. Dwyer, Special Projects, Fisheries Management Br., Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1

Phone: +709 772 8831 - Fax: +709 772 2046 - E-mail: dwyerji@dfo-mpo.gc.ca

R. Steinbock, Senior Advisor, International Affairs Directorate, Dept. of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6

Phone: +613 993 1836 - Fax: +613 993 5995 - E-mail: steinbob@dfo-mpo.gc.ca

B. Whelan, Head, NAFO Unit, Conservation and Protection, Fisheries Management, Newfoundland Region, Department of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1

Phone: +709 772 0928 – Fax: +709 772 2046 – E-mail: whelanb@dfo-mpo.gc.ca

DENMARK (IN RESPECT OF FAROES AND GREENLAND)

Head of Delegation

M. T. Nedergaard, Fiskerilicensinspektør, Head of Unit, Gronlands Fiskerilicenskontrol, Postbox 501, DK -3900 Nuuk, Greenland

Phone: +299 345377 - Fax: +299 323235 - E-mail: mads@gh.gl

Advisers

M. Kruse, Vaktar-og Bjargingartaenastan, P. O. Box 347, FR-110 Torshavn, Faroe Islands

Phone: +298 311065 – Fax: +298 313981 – E-mail: mk@vb.fo

S. Joensen, Vaktar-og Bjargingartaenastan, P. O. Box 347, FR-110 Torshavn, Faroe Islands

Phone: +298 311065 – Fax: +298 313981 – E-mail: sj@vb.fo

ESTONIA

Head of Delegation

T. Roose, Deputy Director General, Estonian Environmental Inspectorate, Kopli 76, 10416 Tallinn

Phone: +3726962233 – Fax: +3726962237, E-mail: tarvo.roose@kki.ee

EUROPEAN UNION

Head of Delegation

S. Ekwall, Administrator, European Commission, Directorate General for Fisheries, External Policy and Markets, International and Regional Arrangements, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium

Phone: +32 2 299 6907 - Fax: +32 2 295 5700 - E-mail: Staffan.Ekwall@cec.eu.int

Alternate

M. Newman, European Commission, Directorate General for Fisheries, Rue de la Loi/Wetstraat 200, B-1049 Brussels, Belgium
 Phone: +32 2 295 7449 – Fax: +32 2 296 2338 – E-mail: martin.newman@cec.eu.int

Advisers

J. Verborgh, Deputy Head of Unit, Monitoring and Licences, European Commission, Fisheries Directorate -General, J-99 06-69, B-1049 Brussels, Belgium
 Phone: +32 2 295 1352 – Fax: +32 2 296 2338 – E-mail: jacques.verborgh@cec.eu.int
 S. Feldthaus, Head of Section, Ministry of Food, Agriculture and Fisheries, Holbergsgade 2, 1057 Copenhagen, Denmark
 Phone: +45 33 92 35 60 – Fax: +45 33 11 82 71 – E-mail: sfe@fvm.dk
 I. Escobar, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
 Phone: +34 913 476847 - Fax: +34 913 476049 - E-mail: iescobar@mapya.es
 M. Rios Cidras, Subdireccion General de Organismos Multilaterales de Pesca, Secretaria General de Pesca Maritima, Jose Ortega y Gasset, 57, 28006 Madrid, Spain
 Phone: +34 91 3471946 - Fax: +34 91 3471512 – E-mail: mrioscid@mapya.es

ICELAND**Head of Delegation**

T. Skarphedinsson, Legal Adviser, Ministry of Fisheries, Skulagata 4, 150 Reykjavik
 Phone: +354 560 9670 – Fax: +354 562 1853 - E-mail: thorir@hafro.is

Alternate

H. Steinarsson, The Icelandic Directorate of Fisheries, Ingolfsstraeti 1, 101 Reykjavik
 Phone: +354 569 7900 - Fax: +354 569 7991 - E-mail: hostein@hafro.is

Advisers

A. Ágústsson, The Icelandic Directorate of Fisheries, Ingolfsstraeti 1, 101 Reykjavik
 Phone: +354 569 7900 - Fax: +354 569 7990 - E-mail: audag@fiskistofa.is
 G. Geirsson, Commander, Icelandic Coast Guard, P. O. Box 7120, 127 Reykjavik
 Phone: +354 545 2071 – Fax: +354 545 2040 – E-mail: gylfi@lhg.is

JAPAN**Head of Delegation**

Y. Sakamoto, Deputy Director, Far Seas Fisheries Div., Resources Management Dept., Fishery Agency, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8907
 Phone: +81 3 3502 8111 (ext. 7237) / 3 3591 6582 - Fax: +81 3 3591 5824

Adviser

N. Takagi, Director, Executive Secretary, Japan Deep Sea Trawlers Association, NK-Bldg., 6F Kanda Ogawa-cho, Chiyoda-ku, Tokyo 101-0052
 Phone: +81 33 291 8508 – Fax: + 81 33 233 3267 – E-mail: jdsta-takagi@msg.biglobe.ne.jp

LITHUANIA**Head of Delegation**

G. Babcionis, Chief Specialist, Fisheries Department under the Ministry of Agriculture, 19 Gedimino str., Vilnius 2600
Phone: +370 52 391180 – Fax: + 370 52 391176 – E-mail: genadijus@zum.lt

NORWAY**Head of Delegation**

S.-A. Johnsen, Head of Section, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
Phone: +47 55 23 80 00 – Fax: +47 55 23 80 90 – E-mail: postmottak@fiskeridir.dep.no

Adviser

E. Fasmer, Adviser, IT-Department, Directorate of Fisheries, P. O. Box 185, N-5804 Bergen
Phone: +47 55 23 8000 – Fax: +47 44 23 80 90 – E-mail: ellen.fasmer@fiskeridir.dep.no

RUSSIA**Head of Delegation**

V. Krasovsky, MURMANRYBVOD, Komintern 7, 183672 Murmansk
Phone: +7 8152 477356 – Fax: +7 8152 456028 – E-mail: mr@an.ru

Adviser

P. Latyshev, MURMANRYBVOD, Komintern 7, 183672 Murmansk
Phone: +47 789 10217 – Fax: +47 789 10217 – E-mail: mr@an.ru

UNITED STATES OF AMERICA**Head of Delegation**

J. Anderson, Fisheries Biologist, Protected Resources Div., Northeast Region, National Marine Fisheries Service, U.S. Dept. of Commerce, NOAA, 1 Blackburn Dr., Gloucester, MA 01930
Phone: +978 281 9226 - Fax: 978-281-9394 - E-mail: jennifer.anderson@noaa.gov

Adviser

P. F. Martin, Lieutenant Commander, Coast Guard Liaison Officer, Office of Marine Conservation (Rm 5806), U.S. Department of State, 2201 C Street NW, Washington, D.C. 20520
Phone: +202 647 3177 - Fax: +202 736 7350 - E-mail: pmartin@comdt.uscg.mil

SECRETARIAT

G. Moulton, Statistical/Conservation Measures Officer
B. J. Cruikshank, Senior Secretary

Annex 2. Agenda

1. Opening of the Meeting (D. Bevan-Canada)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Presentation of a Pilot Project
5. Review and Evaluation of the Pilot Project
6. Proposals and Recommendations
7. Other Business
8. Next Meeting
9. Adjournment

Annex 3. Paper presented by Canada
(STACTIC W.G. (Pilot Project) W.P. 02/1)

Pilot Project

Objective

As outlined in Part VI (Program for Observers and Satellite Tracking) of the NCEM, in order to improve and maintain compliance with the NCEM CP agree to program of 100% observer coverage and.....satellite tracking.....

Improved compliance with NCEM

Canadian Position

- Canada supports this objective.
 - Canada has consistently stated (June 2001 STACTIC Meeting) that improved compliance is the objective with respect to NAFO MCS.
 - In this regard, Canada has also stated that any alternate regime be, at least, as effective as the current regime.
 - Canada is concerned with the current level of non-compliance and the increasing trend of this non-compliance (particularly as it relates to misreporting of catch).
 - These concerns have been documented and presented to the FC.
- Canadian Position
- There are a number of steps that should precede any change to the current regime:
 - Evaluation of the Observer and VMS Program - CP implementation, functionality, and effectiveness.
 - Review of compliance - provide baseline of compliance to measure effects on overall compliance from any changes to MCS regime.
 - Protocol for reduced % - ensure any reduction in coverage is statistically valid (not arbitrary) in relation to conservation risks.
 - Protocol for port inspection - given the potential role of port inspections in any reduction of observer coverage, a protocol should be developed to ensure port inspections are conducted in a consistent, thorough and verifiable manner.
- Some of this work will be completed by STACTIC in June.

Introduction

- A proposal - *Pilot Project on Observers, Vessel Monitoring, and Electronic Reporting* - has been developed for review by this group.
- The stated objective of the proposal is to enhance fisheries protection and enforcement system by making information recorded in logbooks and information from observers available on a daily basis to inspectors in the RA.
- As well, the proposal also aims to make the program more cost-effective and more efficient for control and enforcement purposes.

Introduction

- **The proposed pilot involves:**

- increased use of VMS system to collect real-time data from masters and observers on catch;
- analyses of the data in near real time;
- use of the analyses to help Contracting Parties (including those with an inspection presence) to detect and respond to possible incidents of non-compliance;
- reduced observer coverage.

Introduction

- The proposal fundamentally changes the current regime from monitoring (100% coverage) to sampling (reduced %).
- The proposal could reduce cost, although not necessarily for CP with an inspection presence or for the NAFO ES.
- The proposal may improve somewhat the ability to deal with non-compliance related to area fished.
- The proposal does not deal comprehensively with:
 - other types of non-compliance that can be detected by observers,
 - how information will be used by NAFO, or
 - how the new approach (sampling vs. monitoring) will be implemented in terms of the role of the secretariat, CPs or flag states.

May 2002 STACTIC

- Without prejudice to the decisions to be taken by the FC, STACTIC notes a number of points for consideration by the FC, including:

Definition of scope The scope should be clearly defined in volume (number of vessels), percentage of coverage and time.

Technical facilities Only CP which have the technical facilities put in place and tested with the NAFO ES and with the CP having means of inspection and surveillance in the RA, could participate in the pilot project.

Evaluation criteria Each CP should submit a detailed report on the execution of the pilot project containing all necessary information. STACTIC supported by the ES should evaluate the results of the pilot project on the basis of the following criteria:

- Cost / Savings for industry, authorities of the CP (including those with an inspection presence), and the NAFO Secretariat
- Interaction with traditional means of control
- Compliance notably comparison between vessels with/without observers
- Technical functioning of the Scheme and reliability

May 2002 STACTIC

Implementation and follow-up of the pilot project Participating CP should notify the names of the vessels participating in the pilot project to the NAFO ES. In the case where an unobserved vessel is found to be engaged in an infringement listed in part IV point 9 of the Scheme, the CP will apply the provisions of part IV point 10 of the Scheme and, when the vessel is not re-routed, it will embark without delay an observer onboard.

Before such pilot project can be implemented the FC should instruct STACTIC to examine in detail the catch report, observer report and all technical implications as well as to draw up the draft provisions to be included in the NAFO CEM

- The Report of STACTIC was adopted in September.

November 2002 STACTIC WG

Work this week - Why are we here ?

- To formally state Canadian position
- To prepare for our June STACTIC Meeting

• To review in detail WP(s) on pilot project

November 2002 STACTIC WG

To formally state Canadian position

- Canada is concerned with the current level of non-compliance and the increasing trend of this non-compliance (particularly as it relates to misreporting of catch)
- Canada supports proposals that will improve compliance, however, we are uncertain if current proposal addresses this objective
- Canada is not opposed to alternative MCS strategies that are, at least, as effective as the current regime

November 2002 STACTIC WG

• To prepare for our June STACTIC Meeting

- Observer/VMS Evaluation
- Canada encourages all CP to respond to earlier STACTIC papers (May 2002 and September 2002 - STACTIC WP 02/31) requesting information on the observer/VMS program
- Canada encourages (and will provide support to) the NS to compile and collate information received from CP
- Canada will be presenting an evaluation of the observer program
- Canadian performance
- Other CP performance from an Inspection Party perspective
- This work is essential to establish if the current program has been properly implemented and to determine its level of effectiveness

November 2002 STACTIC WG

• To prepare for our June STACTIC Meeting

- Compliance Review
- Canada encourages all CP to respond to earlier STACTIC papers (STACTIC WP 02/14) requesting information on compliance
- Canada encourages (and will provide support to) the NS to compile and collate information

- Canada will be preparing an assessment of compliance for 2002 from an inspection party perspective
- This work is essential to provide understanding on current level of compliance and to provide baseline for future assessments

November 2002 STACTIC WG

• To prepare for our June STACTIC Meeting

- Process for any reduction in observer coverage
- Canada believes any reduction in observer coverage cannot be arbitrary and must be linked to conservation risks
- Canada will be engaging a consultant to provide guidance on this subject and we are requesting that the June agenda include time for a formal presentation on this matter

- This work is essential to ensure that any reduction in observer coverage is properly linked to conservation risks

November 2002 STACTIC WG

• To prepare for our June STACTIC Meeting

- Dockside Inspection Protocol
- Canada believes that any reduction in observer coverage requires a statistically valid and transparent dockside inspection process
- Discrepancies currently exist between observer and dockside results that are not readily explained
- Canada has engaged a consultant to develop a protocol on this matter and will circulate this protocol for review by OCP
- Canada is requesting that the June agenda include time for a formal presentation on this matter

- This work is essential to ensure that any reduction deal with the current discrepancy between observed and inspected catch

November 2002 STACTIC WG

To review in detail WP(s) on pilot project:

Scope

A very limited scope is all that is required for a proof of concept proposal.

Canada has identified several significant compliance issues, including high levels of misreporting in the 3LMNO Greenland halibut fishery and the 3L-3M shrimp fisheries.

Any proposal should focus on minimizing conservation risks that, in the NAFO Regulatory Area, clearly increases as the area and species mix increase.

November 2002 STACTIC WG

To review in detail WP(s) on pilot project:

Scope

Any pilot project that could affect compliance should be introduced incrementally. For example, initial scope:

Scope

- Single species, single area fisheries
- Maximum of 3 vessels/fishery without observers (cooperation between CP)
- Maximum period of two years, seasonal removal of observers

Participation

- Vessels with AIN in previous 2 years prohibited from participation
- Vessel with fish from other jurisdictions prohibited from participation
- Observer must be proven independent and impartial

November 2002 STACTIC WG

To review in detail WP(s) on pilot project:

Technical Facilities

- STACTIC, through the WG, should address the NAFO Secretariat's technical capacity to receive data, conduct appropriate analyses, and distribute information in near real time to the flag states and CPs with an inspection presence.
- The WG needs to determine how this is to be done as well as how the testing envisioned in the proposal is to be conducted and success or failure evaluated.
- Successful testing is required prior to removal of any observers.

Evaluation - Comparison of Compliance

- How will data analysis be conducted, what are the thresholds for compliance, and what occurs when these thresholds are exceeded ?
- For example, how can 4 vessels fishing in vast and varying areas on the Flemish Cap be monitored collectively as a group based on a sample if each of four vessels (3 without observers, one with) fished in Division 3M without fishing in close proximity.
- How would comparative analysis occur and what is its value ?

Evaluation - Comparison of Compliance

➤ To further illustrate, if the 3 unobserved vessels fishing in the NAFO Regulatory Area (3M) report catches of 8t/day, 2% by-catch, and 1% discards and the observed vessel reports 12t/day, 15% by-catch, and 4% discards, what follow-up is required ?

➤ Given variability in all data elements and influences of seasonal and area factors, what follow-up action would be possible ?

➤ A process/protocol should be developed to deal with these issues prior to implementation.

November 2002 STACTIC WG

To review in detail WP(s) on pilot project:

Modifications to NCEM

- Effective implementation of the pilot will require amendments to measures contained in the NCEM other than those those in Part VI (Program for Observers and Satellite Tracking).
- What is the objective of the other amendments ?
- What constitutes a citable offence for non compliance with the elements of the pilot ?

November 2002 STACTIC WG

To review in detail WP(s) on pilot project: 02/26

OBJECTIVE

“The aim of the proposal is to enhance the fisheries protection and enforcement system.... Iceland proposes to run a pilot project, aiming to make the program for observer and satellite tracking more cost effective and at the same time make it more efficient for control and enforcement purposes.” (FC 02/26)

“In order to improve and maintain compliance...” (Part VI- NCEM)

- The objective of 02/26 deals only with effectiveness and cost efficiencies - it does not address compliance.

November 2002 STACTIC WG

To review in detail WP(s) on pilot project 02/26:

“Only vessels of Contracting Parties with functional VMS systems that have the necessary technical facilities in place to send electronic "observer reports" and "catch reports" and have been tested with the NAFO Secretariat and Contracting Parties with inspection presence in the Regulatory Area, are applicable for this pilot project.” 02/26

- Who is responsible for deciding that a CP has the “necessary technical facilities”?
- What is a “functional VMS system”?
- What happens when a system becomes inoperable ? Is the vessel no longer eligible for the pilot and thereby required to immediately embark an observer ?
- Patrol vessels (including potential PV deployments) operating in the NRA also must have the capability to send and receive data.

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/26:

“...that communication cost for Contracting Parties with inspection presence in the Regulatory Area will increase due to increase flow of information. This can though be minimised by selecting information to be forwarded according to the daily need of each inspection vessel. ”

- Additional costs will have to be incurred by the CP with an inspection presence to analyze data and respond to reported situations

- How do we ensure no duplication of effort (i.e. 2 PVs responding to same incident) ?

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/26:

“A NAFO electronic form to be completed by the onboard observer

Daily electronic transmission of Observer forms

A NAFO electronic Catch Report to be produced by the master

Daily electronic transmission of Catch Reports”

- What is the process for analyzing the data ? The proposal does not refer to a process to compare the observed and reported catches ? Is the intent that this is to be done “manually” ?
- How can the information be compared when the data fields are not the same ? (Observer not recording catch)

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/26:

•*“In order to improve the efficiency and maintain the agreed level of compliance with the Conservation and Enforcement Measures for their vessels fishing in the Regulatory Area, as well as to make the Observer Program more cost efficient, Contracting Parties agree to a 2 year Pilot Project which combines the use of daily electronic catch reports, observer reports and satellite tracking of the vessels.”*

•*“In order to improve and maintain compliance...”* NCEM

- What is the “agreed level of compliance” ?
- How is the level agreed to ?

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/26:

“Observers shall:

•*record the fishing activities of the vessel and verify the position of the vessel when engaged in fishing;”* 02/26

“Observers shall:

•*record and report the fishing activities of the vessel”* NCEM

- Why is the onboard observer not required to report on the fishing activity?

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/26:

“Observers shall:

•*within 30 days following completion of an assignment on a vessel, provide a report to the Contracting Party of the vessel and to the Executive Secretary, who shall make the report available to any Contracting Party that requests it”* Part VI NCEM

•02/26 does not make any reference to preparation or submission of reports by the observer. Why?

•How is the historical record of the observer’s trip established if all VMS data is purged?

•How does this fit with Scientific Council requirements?

•What about record of experiments such as conversion factor, product weight, etc.?

•A standardised format should be established for trip end reports.

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/26:

*“When an apparent infringement of the Conservation and Enforcement Measures is identified by an observer, the observer shall report that in the daily observer report.”*02/26

“When an apparent infringement of the Conservation and Enforcement Measures is identified by an observer, the observer shall, within 24 hours, report it to NAFO inspection vessel using an established code, which shall report it to the Executive Secretary.” Part VI NCEM

- What AIN are covered by this process ?
- A process is required to prioritize the AINs reported
- What confidentiality processes are used ?
- What happens when an observer does not report an AIN ?

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/26:

The daily catch report shall as relevant include:

- The daily catch*
- By-catch*
- Discarding*
- Undersize*

- Catch must be reported by area to prevent misreporting of catch by area.
- Vessel activity should be reported (i.e. transiting, jogging) to prevent opportunities for misreporting activity (i.e. 3L shrimp).

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/26:

“Masters of vessels taking part in the Pilot Project are obliged to transmit daily catch reports, regardless of if there is an observer onboard or not.”

– It should be mandatory that the master report catch (“obliged”?).

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/42:

“A Pilot Project, which combines the use of daily electronic catch reports, observer reports and satellite tracking of fishing vessels shall be established.”

- What is the objective for the pilot ?

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/42:

“Only vessels of Contracting Parties with functional VMS systems that have the necessary technical facilities in place to send electronic “observer reports” and “catch reports” are eligible for this pilot project.”

- What criteria are used to determine if vessels are eligible ?
- How is a “functional VMS system” measured ?
- What are “necessary technical facilities to send electronic ...”?
- What requirements must be met on the part of the NAFO Secretariat and CPs with an inspection presence?
- Are vessels with recent (last 1-2 years) serious infringements eligible?
- If the system becomes non-functional does this then exclude the vessel until it has been fixed ?

November 2002 STACTIC WG

- **To review in detail WP(s) on pilot project 02/42:**

“The number of vessels in the Regulatory Area participating in the Pilot Project shall be limited to 20 for all Contracting Parties. Any Contracting Party shall have no more than 8 vessels participating in the Pilot Project at any one time in the Regulatory Area.”

- What is the basis for the limit of 20 ?
- How exactly is the 20 calculated - total vessels or non-observed vessels ? Does 20 mean 10 observed/10 unobserved?
- How are the observed vessels selected ?
- What is the basis for the 8 vessels per CP ? Do the vessels change from year to year ?
- Does participation mean for the entire pilot period or is it applied on a seasonal or trip basis ?

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/42:**

“Contracting Parties shall notify the Executive Secretary of their intention to participate in the Pilot Project by 30 November 2002. They shall also notify the Executive Secretary of the maximum number of vessels concerned that would be in the Regulatory Area at any one time. If the number of vessels notified by Contracting Parties exceeds 20 vessels the Executive Secretary shall reduce the number, with the agreement of the Parties.”

- What criteria does the ES use to determine which ‘applicants’ are declined ?
- What if the CP does not agree with the reduced number ?
- There is a requirement for an agreed process approved by FC to govern this process.

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/42:**

“However, by way of derogation from these measures a Contracting Party may withdraw observers from vessels participating in the Pilot Project on the condition that the technical facilities on board the vessel necessary to send electronic "observer reports" and "catch reports" have been tested with the NAFO Secretariat and Contracting Parties with an inspection presence in the Regulatory Area.”

- What process will be used to conduct the tests ?
- What are the testing criteria?
- Will the tests assess the ability of the Secretariat and CP with an inspection presence to receive and analyse the data?

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/42:**

“A Contracting Party with one vessel participating in the Pilot Project shall withdraw the observer for no more than 50% of the time that the vessel spends in the Regulatory Area during the year. Other Contracting Parties shall withdraw the observers from no more than 50% of the vessels participating in the Pilot Project that are present in the Regulatory Area.”

- How are comparisons possible with unobserved vessels if a CP has only one vessel in the NRA?
- This was not foreseen in the Icelandic proposal (02/26)

November 2002 STACTIC WG**•To review in detail WP(s) on pilot project 02/42:**

“When withdrawing observers Contracting Parties shall ensure that as far as possible there is a balance between vessels participating in the Pilot Project with observers and without observers, in terms of the type of fishery in which the vessels are engaged.”

- This requirement is too vague.
- How are CPs required to ensure that the balance is established and maintained ?

November 2002 STACTIC WG**•To review in detail WP(s) on pilot project 02/42:**

“The Contracting Party should provide at all times the NAFO Secretariat the names of the vessels as well as the period during which they have no observer onboard.”

- There should be a requirement for the NAFO Secretariat to forward the information provided to it by CPs to CPs with an inspection presence.

November 2002 STACTIC WG**•To review in detail WP(s) on pilot project 02/42:**

“In the case where an unobserved vessel is found to be engaged in an infringement listed in part IV point 9 of the Scheme, the Contracting Party shall apply the provisions of part IV point 10 of the Scheme and, when the vessel is not re-routed, it will embark without delay an observer onboard.”

- There is no protocol when unobserved vessels are issued citations for violations other than those listed above. Part IV 6. iv) also refers to serious infringements.
- There should be a criteria for the type of infringement
- Vessels with citation for ANY incidents of non-compliance with the NCEM should be removed from the pilot.

November 2002 STACTIC WG**•To review in detail WP(s) on pilot project 02/42:**

*“In addition to their duties under the Conservation and Enforcement Measures observers on board vessels participating in the Pilot Project shall
–monitor the masters daily catch reports sent by electronic channels via the FMC to the NAFO Secretariat (and ensure that they are submitted)”*

- What are the observer’s instructions in the event that the master does not send a report ?
- How does the observer “ensure” reports are submitted?
- The ES role should ensure that all vessels participating in the pilot are submitting reports as required and advise Contracting Parties with an inspection presence as required

November 2002 STACTIC WG**•To review in detail WP(s) on pilot project 02/42:**

‘Masters of vessels taking part in the Pilot Project are obliged to transmit daily catch reports, regardless of whether there is an observer onboard or not.’

–Masters... shall transmit daily catch.?

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/42:

The daily catch report shall include as appropriate the amounts of the following categories:

- i) *The daily catch*
- ii) *By-catch*
- iii) *Discarding*
- iv) *Undersize fish*

–By Division ?

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/42:

1.6 Catch Report

Activity detail; cumulative catch by species retained on board, either since commencement of fishing in R.A.² or last “Catch” report, in pairs as needed.

- Daily catch should be reported by Division
- Additionally, bycatch and discards should be reported daily by division
- Clarification is required on how catches (and bycatches and discards) are reported - daily and cumulatively?

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/42:

1.6 Observer Report

- Observer report contains no observed estimates of total catch
- Is the observer report available to the captain ?
- All catches should be reported by Division
- Clarification is required on how catches (and bycatches and discards) are reported - daily and cumulatively?

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/42:

1.6 Observer Report

observers on board vessels participating in the Pilot Project shall:

–report daily by electronic channels via the FMC to the NAFO Secretariat (“OBR report”) of his duties described in Part VI.A.3. a) i) to iv) of the Conservation and Enforcement Measures”

–The observer report format is inconsistent with this measure; Part VI A. 3. a) ii) “observe and estimate catches” is not reflected in the report, which reports only figures for by catch, discards and undersize fish.

November 2002 STACTIC WG

•To review in detail WP(s) on pilot project 02/42:

1.6 Observer Report

M¹ Activity detail; position at time of transmission

I Optional if a vessel is subject to satellite tracking

- When would vessels be required to report positions if all vessels are subject to Satellite Tracking at all times ?

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/42:**

1.6 Observer Report

Apparent Infringements Activity detail; "Yes" or "No" ⁵

5. Yes" if an infringement is observed

- The nature of the infringement is not reported.
- Is this a secure and confidential process ?
- Additionally, the observer reports "Yes" or "No" with respect to the log record; however, there is no report of the observed estimate of catch to compare with the log.

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/42:**

"The Executive Secretary shall make available as soon as possible the information received under paragraphs 2 and 3 to other Contracting Parties with an active inspection presence in the Regulatory Area. All reports and messages shall be treated in a confidential manner."

- As soon as possible could be replaced with a timeline ?
- Does the confidentiality measure deal with the treatment of these reports ? If so, is it necessary to re-state it?
- How do the new confidentiality rules affect this process ?

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/42:**

"Each Contracting Party should submit an interim report at the annual meeting of the Fisheries Commission in 2003 and a detailed report on the execution of the pilot project containing all necessary information at the annual meeting of the Fisheries Commission in 2004. with any recommendations or proposals:"

- There should be a standardized format for CPs to report on their pilot participation.
- CP with an inspection presence should be required to report on the pilot project as it relates to follow-up, response to AIN and so on.

November 2002 STACTIC WG

- To review in detail WP(s) on pilot project 02/42:**

"STACTIC supported by the Executive Secretary should evaluate the results of the pilot project on the basis of the criteria set out below, together with any recommendations or proposals:"

- There is no timeline associated with the STACTIC review and no provision for ongoing analysis.

November 2002 STACTIC WG

- Other observations**
- To fully understand the proposals:
 - Chart of activity based on full participation
 - Dataflow diagram
 - Criteria and protocols re AINs as identified earlier

Annex 4. Discussion Points

(paper presented by Iceland)

Who is responsible for deciding that a CP has the “necessary technical facilities”?

The NAFO secretariat will have to decide upon that, based on the technical requirements of the scheme and the Pilot Project.

What is a functional VMS system?

A VMS that fulfills all technical requirements and has been proven to be operational.

What happens when a system becomes inoperable?

If the VMS of an individual vessel is not functioning it must act according to the already established rules in the CEM.

Patrol vessels (incl. potential PV deployments) operating in the NRA also must have the capability to send and receive data.

Not necessarily, but preferable.

What process will be used to conduct the tests?

The Secretariat has to confirm that it receives and is able to interpretate the relevant messages.

What are the testing criteria?

Verified communication from the vessel via it's FMC to the Secretariat as already described in the preceding questions.

Will the tests assess the ability of the Secretariat and CP's with inspection presence to receive and analyse the data?

It's fundamental that the Secretariat can receive **and** analyse the data. However, for the CP with inspection presence there are two possibilities, either to receive the processed data from the Secretariat or receive raw data and do the analysing by itself.

**Annex 5. Working Paper Concerning a Pilot Project on Observers,
Satellite Tracking and Electronic Reporting**
(STACTIC W.G. (pilot project) W.P. 02/2, Revision 3)

For the purpose of future evaluation, the objectives of the pilot project include:

- Maintenance of or improvement to compliance with the Conservation and Enforcement Measures
- Enhancement of fisheries protection and enforcement systems
- Improved cost-efficiency and cost-effectiveness

In order to implement the Pilot Project on Observers, Satellite Tracking and Electronic Reporting, it will be necessary to add Part VI(c) to the Conservation and Enforcement Measures as follows:

PART VI (c) – PILOT PROJECT ON OBSERVERS, SATELLITE TRACKING AND ELECTRONIC REPORTING

A Pilot Project, which combines the use of daily electronic catch reports, observer reports and satellite tracking of fishing vessels, shall be established.

1. Scope

Only vessels of Contracting Parties with functional VMS systems that have the necessary technical facilities in place to send electronic "observer reports" and "catch reports" are eligible for this pilot project.

The total number of vessels in the Regulatory Area at any one time, which are participating in the Pilot Project shall be limited to 20, with the total number of vessels without observers not to exceed 10 at any time. Any Contracting Party shall have no more than 8 vessels participating in the Pilot Project at any one time in the Regulatory Area.

Contracting Parties shall notify the Executive Secretary of their intention to participate in the Pilot Project within 30 days following the adoption of the pilot project by the Fisheries Commission. The Pilot Project shall enter into force 60 days following adoption and, should provisionally continue for a period of two years. They shall also notify the Executive Secretary of the maximum number of vessels concerned that would be in the Regulatory Area at any one time. If the number of vessels notified by Contracting Parties exceeds 20 vessels the Executive Secretary, with the agreement of the Chairman of the Fisheries Commission, shall reduce the number without excluding any Contracting Party and advise the relevant Contracting Parties prior to the commencement of the pilot project.

Each Contracting Party is entitled to at least one vessel to participate in the Pilot Project at any time.

If a Contracting Party does not utilize its right for a vessel to participate or withdraws from the Pilot Project, the right becomes available for another Contracting Party. In such a case, the Contracting Parties with the fewest vessels participating in the Pilot Project at that time shall have priority to choose to utilize the right for a new vessel to participate.

2. Implementation

Participating Contracting Parties should notify the names of the vessels participating in the pilot project to the NAFO Secretariat. Such vessels shall have observers on board in accordance with Part VI.A of the NAFO Conservation and Enforcement Measures.

However, by way of derogation from these measures a Contracting Party may withdraw observers from vessels participating in the Pilot Project on the condition that the technical facilities on board the vessel necessary to send electronic "observer reports" and "catch reports" have been tested with the NAFO Secretariat and Contracting Parties with an inspection presence in the Regulatory Area.

The testing of this exchange shall be deemed successful once data exchanges have been completed with all recipients at a 100% reliability rate.

A Contracting Party with one vessel participating in the Pilot Project shall withdraw the observer for no more than 50% of the time that the vessel spends in the Regulatory Area during the year. Other Contracting Parties shall withdraw the observers from no more than 50% of the vessels participating in the Pilot Project that are present in the Regulatory Area.

When withdrawing observers Contracting Parties shall ensure that there is a balance between vessels participating in the Pilot Project with observers and without observers, in terms of the type of fishery in which the vessels are engaged.

Contracting Parties shall not withdraw observers from vessels with catch onboard when entering the Regulatory Area unless such vessels are subject to an inspection.

Participating Contracting Parties shall provide at all times to the NAFO Secretariat the names of vessels participating in the pilot project as well as the period during which they have no observer onboard. The Executive Secretary shall forward this information to all Contracting Parties.

In the case where a vessel without an observer is found by an inspector to be engaged in any infringement, the Contracting Party shall apply the provisions of part IV point 10 of the Scheme, as appropriate, and, when the vessel is not re-routed, it shall embark an observer without delay.

In addition to their duties under the Conservation and Enforcement Measures observers on board vessels participating in the Pilot Project shall report daily by electronic channels via the FMC to the NAFO Secretariat ("OBR report") of his duties described in Part VI.A.3. a) i) to iv) of the Conservation and Enforcement Measures.

3. Daily Reports

- a) Masters of vessels and observers taking part in the Pilot Project shall transmit daily reports by division.
- b) The daily reports are to be received by the NAFO Secretariat by 1200 UTC daily. The report period will run from 0001 hours to 2400 hours of the previous day.
- c) The catch reported in the daily report of the master will correspond with those recorded in the log.
- d) The daily reports shall include as appropriate the amounts, by Division, of the following categories:

- i) The daily catch by species retained on board
 - ii) Discarding
 - iii) Undersize fish
- e) If the electronic means of transmitting daily reports (to and from FMC) is not functioning, the master and the observer will continue to report daily by other means keeping a written log of these transmissions on board and available to inspectors.

The templates for Catch and Observer Reports are further described in addition to PART III – ANNEX 1 – HAIL SYSTEM MESSAGE FORMAT.

4. Data Collection/Compilation/Analysis

The Executive Secretary shall collect and compile, on a weekly basis, the data provided by the daily catch reports to compare, among other items, catch rates of species caught by Division, by-catch percentage rate, discard rates for similar fisheries. The details of this data compilation are outlined in Annex 2.

The Executive Secretary shall forward this information to Contracting Parties with an inspection presence.

The NAFO Secretariat shall monitor the receipt of daily reports from each vessel participating in the pilot. When a report has not been received for 2 consecutive days, the NAFO Secretariat will notify the relevant Contracting Party as well as Contracting Parties with an Inspection Presence.

The Executive Secretary shall make available as soon as possible the information received under paragraphs 2 and 3 to other Contracting Parties with an active inspection presence in the Regulatory Area. All reports and messages shall be treated in a confidential manner.

5. Confidentiality

All data submitted under the Pilot Project shall be maintained by the Executive Secretary for the duration of the Pilot Project as well as the assessment period. When assessing this data at the end of the project, the Executive Secretary and STACTIC will ensure confidentiality by replacing vessel names with a neutral identifier. All other confidentiality rules, as outlined in the Conservation and Enforcement Measures, will apply.

6. Costs

Subject to any other arrangements between Contracting Parties, each Contracting Party shall pay all its costs associated with this system.

7. Follow-up

Each Contracting Party (including those with an inspection presence) shall submit an interim report at the first annual meeting of the Fisheries Commission following adoption of the pilot project and a detailed report on the execution of the pilot project containing all necessary information at the annual meeting of the Fisheries Commission following completion of the pilot project. STACTIC supported by the Executive Secretary should evaluate the results of the pilot project at its next meeting on the basis of the criteria set out below as well as the objectives identified, together with any recommendations or proposals:

- a) Compliance overall and notably comparison between vessels with and without observers.
- b) Assessment by the Executive Secretary on issues related to data compatibility, data collection/compilation, and data transmission.
- c) Cost/savings; for the industry; for the authorities of the Contracting Party (including those with an inspection presence); for the NAFO Secretariat.
- d) Interaction with traditional means of control.
- e) Technical functioning of the Scheme and reliability.

(Annex 1 – STACTIC W.G. W.P. 02/2, Rev. 3)

1.6 Daily Catch Report

| Data Element: | Code: | Mandatory / Optional | Remarks: |
|---|-------|----------------------|---|
| Start record | SR | M | System detail; indicates start of record |
| Address | AD | M | Message detail; destination, “XNW” for NAFO |
| Sequence Number | SQ | M | Message detail; message serial number in current year |
| Type of Message | TM | M | Message detail; message type, “CAT” as Catch report |
| Radio call sign | RC | M | Vessel registration detail; international radio call sign of the vessel |
| Trip Number | TN | O | Activity detail; fishing trip serial number in current year |
| Vessel Name | NA | O | Vessel registration detail; name of the vessel |
| Contracting Party Internal Reference Number | IR | O | Vessel registration detail; unique Contracting Party vessel number as ISO-3 flag state code followed by number |
| External Registration Number | XR | O | Vessel registration detail; the side number of the vessel |
| Relevant Area | RA | M | Activity detail: NAFO Division |
| Latitude | LA | M ¹ | Activity detail; position at time of transmission |
| Longitude | LO | M ¹ | Activity detail; position at time of transmission |
| Daily Catches species live weight | CA | M M | Activity detail; cumulative catch by species retained on board (exclusive of discards), either since commencement of fishing in R.A. ² or last “Catch” report, in pairs as needed. FAO species code Live weight in kilograms, rounded to the nearest 100 kilograms |
| Discarding species live weight | RJ | M | Activity detail; discarded catch by species, either since commencement of fishing in R.A. ² or last “Catch” report, in pairs as needed. FAO species code Live weight in kilograms, rounded to the nearest 100 kilograms |
| Undersize species live weight | US | M | Activity detail; undersize catch by species, either since commencement of fishing in R.A. ² or last “Catch” report, in pairs as needed. FAO species code Live weight in kilograms, rounded to the nearest 100 kilograms |
| Date | DA | M | Message detail; date of transmission |
| Time | TI | M | Message detail; time of transmission |
| End of record | ER | M | System detail; indicates end of the record |

1 Optional if a vessel is subject to satellite tracking

2 Meaning the first “Catch Report” in current fishing trip in the R.A.

1.7 Observer Report

| Data Element: | Code: | Mandatory / Optional | Remarks: |
|-------------------------------|-------|----------------------|--|
| Start record | SR | M | System detail; indicates start of record |
| Address | AD | M | Message detail; destination, "XNW" for NAFO |
| Sequence Number | SQ | M | Message detail; message serial number in current year |
| Type of Message | TM | M | Message detail; message type, "OBR" as Observer report |
| Radio call sign | RC | M | Vessel registration detail; international radio call sign of the vessel |
| Fishing Gear | GE | M | Activity detail; FAO code for fishing gear |
| Directed Species ⁷ | DS | M | Activity detail; FAO species code |
| Mesh Size | ME | M | Activity detail; average mesh size in millimeters |
| Relevant Area | RA | M | Activity detail; NAFO Division |
| Daily Catches | CA | M | Activity detail; cumulative catch by species retained on board, (exclusive of discards), either since commencement of fishing in R.A. ² or last "Catch" report, in pairs as needed. |
| species | | M | FAO species code |
| live weight | | | Live weight in kilograms, rounded to the nearest 100 kilograms |
| Discarding | RJ | M ¹ | Activity detail; discarded catch by species, either since commencement of fishing in R.A. ² or last "Catch" report, in pairs as needed. |
| species | | | FAO species code |
| live weight | | | Live weight in kilograms, rounded to the nearest 100 kilograms |
| Undersize | US | M ¹ | Activity detail; undersize catch by species, either since commencement of fishing in R.A. ² or last "Catch" report, in pairs as needed. |
| species | | | FAO species code |
| live weight | | | Live weight in kilograms, rounded to the nearest 100 kilograms |
| Log Book | LB | M | Activity detail; "Yes" or "No" ³ |
| Production | PR | M | Activity detail; code for the production |
| Hails | HA | M | Activity detail; observers verification if the reports made by the captain are correct, "Yes" or "No" ⁴ |
| Apparent Infringements | AF | M | Activity detail; "Yes" or "No" ⁵ |
| Observer Name | ON | M | Message detail; name of the observer signing the report |
| Date | DA | M | Message detail; date of transmission |
| Free Text | MS | O ⁶ | Activity detail; for further comments by the observer |
| Time | TI | M | Message detail; time of transmission |
| End of record | ER | M | System detail; indicates end of the record |

- 1 Only to be transmitted if relevant
- 2 Meaning the first "Catch Report" in current fishing trip in the R.A.
- 3 "Yes" if the observer approves the Log Book entries by the captain
- 4 "Yes" if the observer approves the Hails transmitted by the captain
- 5 "Yes" if an infringement is observed
- 6 Mandatory if "LB" = "No", or "HA" = "No", or "AF" = "Yes".
- 7 Directed species is the species which represents the greatest catch for that day

(Annex 2 – STACTIC W.G. W.P. 02/2, Rev. 3)

Data to be compiled by Executive Secretary and Forwarded to Inspection Parties**Catch and Catch Rate Report (Weekly)**

| Vessel Type | Division | Species | Total catch | Total Effort | Catch Rate |
|-------------------------------------|-----------------|----------------|--------------------|---------------------|-------------------|
| | | | | | |
| With observer - Masters | | | | | |
| With observer - Observer | | | | | |
| Without observer | | | | | |
| | | | | | |
| | | | | | |

By-catch Report (Weekly)

| Vessel Type | Division | Species | Total catch | Total Overall Catch | By-catch% |
|-------------------------------------|-----------------|----------------|--------------------|----------------------------|------------------|
| | | | | | |
| With observer - Masters | | | | | |
| With observer - Observer | | | | | |
| Without observer | | | | | |
| | | | | | |
| | | | | | |

Discards Report (Weekly)

| Vessel Type | Division | Species | Total catch | Total Discards | Discard % |
|-------------------------------------|-----------------|----------------|--------------------|-----------------------|------------------|
| | | | | | |
| With observer - Masters | | | | | |
| With observer - Observer | | | | | |
| Without observer | | | | | |
| | | | | | |
| | | | | | |

Annex 6. Request for Quotation
(STACTIC W.G. (pilot project) W.P. 02/3, Revised)

Reference is made to earlier correspondence concerning a Pilot Project on observers, satellite tracking and electronic reporting within the Northwest Atlantic Fisheries Organisation (NAFO).

The following additions to the current Vessel Monitoring System of the NAFO Secretariat in Halifax, Nova Scotia are required:

1. Installation of “*catch reports*”.
2. Installation of “*observer reports*”.
3. Compilation of received data in reports stated in paragraphs 1 and 2.

The templates for the two new reports and the weekly compilations are described in annexes 1 and 2 in the attached working paper (STACTIC W.G. (pilot project) W.P. 02/2-Revision 3).

General description of the required amendments:

It is foreseen in the Pilot Project (PP) that vessels fishing in the NAFO Regulatory Area (RA) and are taking part in the PP will be required to transmit daily catch- and observer reports to the Secretariat via their Contracting Parties (CP) Fisheries Monitoring Centres (FMC). These reports are to be received by the Secretariat in electronic form following the syntax of the North Atlantic Format (NAF).

The data in the received messages is to be used for automatic comparison and compilation by the Secretariat and the compilation to be made available to the CP's with inspection presence in the RA on a weekly basis in a spreadsheet format. There shall be a flexibility in the system so that the Secretariat can decide how the data is compiled, inter alia which data elements are used for compilation. These modifications to the system must be constructed in such a way that possible future modifications/additions can be easily installed.

The Secretariat shall make available all received messages and notifications to CP's with an active inspection status in the RA on a real time basis.

As the software provider for the NAFO Secretariat, Trackwell is hereby requested to estimate following:

- Cost associated with implementation of facilities to receive and make available the catch- and observer reports in the system.
- Cost associated with compilation and transmission of data as described in annex 2.
- Implementation and the necessary familiarization for the staff of the NAFO Secretariat.
- Time needed to complete the task, as described above.

The quotation/estimate is requested in Canadian dollars (CAD) and is to include all associated costs.