SECTION VIII
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Report of the Fisheries Commission and its Subsidiary Body (STACTIC), 22nd Annual Meeting 18-22 September 2000 Boston, Massachusetts, USA

PART I

Report of the Fisheries Commission Meeting
(FC Doc. 00/21)

22nd Annual Meeting, 18-22 September 2000
Boston, Massachusetts, USA

1. Opening Procedures (items 1-5 of the Agenda)

1.1 The meeting was called to order by the Chairman, Mr. P. Gullestad (Norway) at 0915 hrs. on 19 September 2000. Representatives from the following Contracting Parties were present: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, the European Union (EU), France (in respect of St. Pierre et Miquelon), Iceland, Japan, the Republic of Korea, Latvia, Lithuania, Norway, Poland, Russia, Ukraine and the United States of America (Annex 1).

1.2 Mr. Patrick E. Moran (United States) was appointed Rapporteur.

1.3 The Provisional Agenda was reviewed and two changes were agreed. At the request of the General Council, the Report of the Meeting on Shrimp Stocks was inserted as Agenda item 10a. It was also agreed that the Representative of Latvia would present the results of the meeting on the bloc quota following this item. Additionally, an item was proposed by Norway with respect to pelagic redfish in Division 1F of the Regulatory Area. This item was identified as a new Agenda item 17.11. The Agenda was **adopted** as amended (Annex 2).

1.4 Admission of observers was discussed in the meeting of the General Council.

1.5 Publicity was discussed in the meeting of the General Council.

2. Administrative (item 6)

2.1 Review of Membership was discussed at the opening session of the General Council (under provisions of Article XIII.1 of the NAFO Convention).

3. Conservation and Enforcement Measures (items 7-14)

3.1 With respect to Agenda item 7, Scientific Council Chair W.B. Brodie (Canada) presented the Report of the Joint Fisheries Commission/Scientific Council Working Group Meeting on the Precautionary Approach (PA). This meeting took place 29 February - 2 March 2000, in Brussels, Belgium (NAFO/FC Doc 00/2).

3.2 Regarding the issue of harmonization of concepts and terminology, the Working Group examined the results of the February 2000 ICES CWP meeting (SCS Doc. 00/7) and a paper on harmonization submitted by the EU. The Working Group concluded that no formulations of the precautionary approach have been accepted by international fisheries organizations, although some elements of the approach have been implemented by various management authorities. It was agreed that broad similarities exist between the ICES and NAFO versions of the precautionary approach (i.e., biomass limits and biomass buffers), but noted that harvest control rules differ. It was generally agreed that

determination of harvest control rules should be the responsibility of the Fisheries Commission. There was no agreement on the recommendations found in the EU paper, and there was considerable debate regarding the potential relationship (if any) between Flim and Fmsy.

3.3 Regarding operationalizing the precautionary approach into management plans for three model stocks, the Working Group reviewed a discussion paper submitted by Canada. This document outlined progress made on cod in Div. 3NO and yellowtail flounder in Div. 3LNO, and proposed additional steps for implementation of the precautionary approach with regard to these stocks. It was noted that there was a need to address harvest control rules in an implementation plan. The Working Group agreed on the next steps in implementation of the precautionary approach for two of the two model stocks. It was noted that work by the Scientific Council relating 3M shrimp is ongoing and will be reviewed again in November 2000, prior to the 2001 fishing season.

3.4 The Joint Working Group also agreed on the next steps for implementing the precautionary approach for American Plaice in Div. 3LNO. It was suggested similar detailed implementations plans (such as those outlined for the two model stocks and American Plaice in Div. 3LNO) might be developed for other NAFO stocks. It was also agreed that, for other stocks, management objectives should include rebuilding and maintenance of stock biomass at a level that can support sustainable fisheries and produce stable yields. Additionally, it was agreed that the Fisheries Commission should specify management strategies, ensure that data collection and analysis is carried out, and supply additional technical management measures (such as to address bycatch issues) when necessary.

3.5 At the Joint Working Group meeting, two Contracting Parties tabled proposals for modification to the Fisheries Commission's Request for Advice from the Scientific Council for 2001. After no agreement could be reached regarding the inclusion of references to the UN Fish Stocks Agreement in such revised requests, it was agreed that no revisions should take place to the current request for advice. Instead, it was agreed that five items pertaining to advice under the precautionary approach would be submitted to the Scientific Council for consideration.

3.6 Regarding the consideration of criteria for re-opening a fishery in light of the precautionary approach, four technical measures were identified by the working group and recommended for consideration by the Fisheries Commission. These measures seek to address: protection of spawners; protection of pre-recruits; concerns with bycatch; and concerns with bycatch of other species. The Joint Working Group also noted a number of additional supporting management measures to complement the application of the precautionary approach during discussions on the model stocks. These additional measures are included in Annexes 6-8 of the Joint Working Group Report, dealing with two of the model stocks (Div. 3NO cod and Div. 3LNO yellowtail flounder) and one additional stock (Div. 3LNO American plaice). Additionally, the Working Group considered a great many other possible supportive management measures.

3.7 The report of the Joint Working Group was **adopted**. Discussion followed on whether the working group should continue its work. The Representative of Canada, supported by the United States, strongly supported continued work and adoption of the recommendations of the working group. Canada proposed that NAFO adopt a three-year pilot project (beginning in 2001) during which the work already done relevant to the three model stocks would be operationalized and more stocks would be considered for future

implementation. The Representative of the European Union (EU) and others, however, stated that much more work needed to be done before decisions could be taken regarding implementation of the precautionary approach. He noted inconsistencies between the NAFO model and that of NEAFC, and the lack of agreement among Contracting Parties regarding fundamental elements of the precautionary approach. It was suggested that the Working Group should not meet in 2001, so that some of these issues might be addressed by the Fisheries Commission and bilaterally.

3.8 With a view to making further progress on the implementation of the Precautionary Approach, **it was agreed** 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. Any recommendation that the Working Group meet **shall be the subject of a mail vote**.

3.9 With respect to Agenda item 8, Report of the STACTIC June Meeting, Mr. C. Allen (Canada) reported the results of the 27-29 June STACTIC Meeting in Dartmouth, Nova Scotia, Canada (see NAFO/FC Doc. 00/4). This meeting was held to begin work on the scientific requirements for the observer program, amendments to the existing program, and the observer manual. STACTIC also considered possible amendments to the Conservation and Enforcement Measures regarding juvenile fish. Other matters addressed by STACTIC at this meeting included: a review of submissions on shrimp catches and effort days; possible follow-up to the Working Group on the Precautionary Approach; consideration of rule for chartering and the issue of flag hopping; possible harmonization of port inspection reports; preparation of the review and, as appropriate, the revision of the Program for Observers and Satellite Tracking; and new development and/or possible overhaul of the Conservation and Enforcement Measures.

3.10 In discussions following the STACTIC intersessional report, the STACTIC recommendation regarding the objectivity of observers (FC Doc. 00/8) was **adopted** (Annex 3). Although there was general support for a review and clarification of the Conservation and Enforcement Measures, it was agreed that decision on this issue, and others addressed at the STACTIC intersessional meeting, should be deferred pending further discussion during the annual meeting. The report of the June 2000 STACTIC Intersessional Meeting was **adopted**. However, several delegates expressed reservations regarding Div. 3M shrimp catch and effort data attached as Annex 10 to the STACTIC Report.

3.11 With respect to Agenda item 9, Inspection and Control Measures in the NAFO Regulatory Area, Contracting Parties generally supported continued use and enhancement of the NAFO vessel monitoring system (VMS). The EU tabled a proposal in STACTIC that amended the current program for VMS and observers, outlined detailed rules for satellite tracking, and adjusted hail system requirements. While the EU proposal was **adopted** after brief discussion (NAFO FC Doc. 00/13 - see Annex 4), the Representative from Iceland (supported in principle by Denmark and Norway) expressed dissatisfaction with the 100% level of observer requirement that remained in the program. Iceland noted that such requirements are expensive and unnecessary in fisheries such as that for 3M shrimp. Thus, Iceland stated its intention to formally object to the revised text of the

program. Denmark and Norway clarified that they would not formally object to this revision.

3.12 Additionally, the Fisheries Commission **agreed** that provisions on secure and confidential treatment of the electronic reports and messages transmitted in accordance with the NAFO Conservation and Enforcement Measures should be addressed at the STACTIC intersessional meeting and that these provisions as described in STACTIC Working Paper 00/19 are taken into account in the NAFO Secretariat's Call for Tender, the acquisition and implementation of the Automated Hail and Satellite Tracking System.

3.13 With Respect to Agenda item 10, Mr. F. Wieland (EU) provided the report of the March 2000 meeting of the Working Group on the Allocation of Fishing Rights in Washington, D.C. (NAFO GC Doc. 00/2). He noted that discussions at this meeting were both challenging and complicated. In discussions relating to the qualifying criteria for stocks not currently allocated, Mr. Wieland stated that there was some agreement that such criteria should be listed in no order of priority and that such a list should not be limiting. Additionally, there was agreement that qualifying Parties must be Fisheries Commission members in good standing. However, there was less consensus regarding the issue of allocation criteria for stocks not allocated. Although there was support for the use of reference fishing patterns in establishing allocations, questions relating to coastal State status/zonal attachment and the use of "others" and "cooperating Party" quotas were not resolved. Additionally, discussions regarding reallocation of already allocated quotas (including stocks currently under moratoria) produced no consensus. The Working Group agreed that guidance should be sought from the Fisheries Commission regarding steps to be taken in the future.

3.14 Discussions following the report of the March 2000 allocation intersessional focused on the utility of continued work by the Working Group. The Representative of Denmark (in respect of the Faroe Islands and Greenland) noted that his delegation was among those who have pressed for an early review of the present allocation key. While discussions in the Working Group have been fruitful thus far, there is a lack of political will among Contracting Parties to move the issue forward. He therefore suggested that once stocks begin to recover, allocative issues should be addressed in due time. Thus, he suggested that the Working Group should not meet in 2001. This view was supported by the Representatives of Iceland, the EU, Latvia, Russia, and Norway. The Representatives of the United States, Canada, France (in respect of St. Pierre and Miquelon), and Korea, on the other hand, expressed strong support for continued work. Particular concern was noted that allocation issues pertaining to new stocks must be dealt with in a timely manner. Following further discussion, the Report of the March 2000 Allocation Working Group meeting was **adopted** and it was **decided** that the Working Group would not meet in 2001, recognizing the understandings identified in paragraph 3.18 below.

3.15 During his presentation of the report on the March 2000 intersessional on allocation, Mr. Wieland also noted that those Contracting Parties included in the "bloc quota" met to discuss possible scenarios for resolving this difficult issue. At the Working Group meeting, this group set a future meeting date and location and considered possible terms of reference for this future meeting. Mr. N. Riekstins (Latvia) reported on the outcome of this subsequent meeting (report at GF/00-566), noting that relevant Parties had agreed on a reference period beginning in 1992 and stocks to which this reference period should be applied. He then listed (in no particular order) some of the agreed criteria and principles of allocations, noting that relevant application and weighting had not yet been decided. Additionally, the Representative of Latvia stated that the group considered some criteria

for allocation of stocks not fished during the reference period. Mr. Riekstins stated that the time and location of the next meeting of the bloc Parties would be announced in the future.

3.16 Regarding Agenda item 10(a), Mr. Wieland (EU) then provided the report of the March 2000 Meeting on Shrimp Stocks in Washington, D.C. (NAFO GC Doc. 00/3), noting that there was general agreement among Contracting Parties that the current effort allocation system for Div. 3M shrimp is not achieving the conservation goals as outlined in the Scientific Council advice for this stock. However, there was not consensus regarding how the current situation might be improved. Mr. Wieland noted that some Parties continued to call for a move to TAC-based management of this stock, while others preferred to simply address relevant problems within the existing effort-based scheme. Additionally, discussions touched on possible new approaches to management of the Div. 3L shrimp stock. With regard to NAFO shrimp stocks, the Working Group agreed that guidance should be sought from the Fisheries Commission regarding steps to be taken in the future.

3.17 Following the report on the meeting on NAFO shrimp stocks, Contracting Parties expressed a variety of views regarding possible scenarios for future management of NAFO shrimp stocks. Some Parties supported a switch to TAC-based management, while others called for continuation of an effort-based management scheme. The Representative of Denmark (in respect of the Faroe Islands and Greenland) emphasized the importance of this issue to his country and called for a special meeting of the Fisheries Commission early next year so that decisions could be taken on 3L and 3M shrimp management in time for the 2001 shrimp fishing season. Canada, the United States, and others supported this proposal, citing strong conservation concerns relating to the 3M shrimp stock. However, other Parties supported the view that management issues relating to these stocks should be dealt with at this annual meeting, in order to ensure that measures are in place for the upcoming season. A great deal of dissatisfaction was also expressed by the Representatives of Iceland, Latvia, Norway, and the EU regarding the confusion surrounding the historical data for the 3M shrimp fishery. The Representative from the Ukraine noted that, under no circumstances, should any NAFO members be forced to accept zero TACs in this fishery. The report of the March 2000 meeting on NAFO shrimp stocks was **adopted**.

3.18 After further discussion, it was agreed that the current measures in place for 3M shrimp should be updated for use during the 2001 fishing season. Thus, the measures as outlined in FC Doc. 00/11 were **adopted** (Annex 5). Additionally, it was **agreed** that a working group should meet, possibly on 27 March 2001, in Copenhagen, Denmark, to review shrimp catch statistics according to the guidance provided in FC Doc. 00/19. It was also **agreed** that a special meeting of the Fisheries Commission should be called during 28-29 March 2001 in Copenhagen, Denmark, to examine alternatives for future management and allocation of NAFO shrimp stocks. Following a request for clarification by the Representative of the United States, it was generally agreed that the special fisheries commission meeting is to be part of the on-going broader allocation discussions. In addition, there was general agreement that further discussions on the broader allocation issue should take place during the 23rd Annual Meeting. The Fisheries Commission agreed on provisional agendas for these two meetings (attached as Annexes 6 and 7).

3.19 With respect to Agenda item 11, Review of the provisions on chartering operations in the NAFO Regulatory Area, there was general agreement that there was a need to clarify the rules relating to chartering operations in the NAFO Regulatory Area. Concern was

expressed regarding the confusion during 2000 over the use of allocated 3M shrimp fishing days through chartering operations (transfers of fishing days) and, in response to a question by the Representative of the EU, the NAFO Executive Secretary attempted to clarify the steps taken in approving requests for transfers of fishing days for use in chartering operations during 2000. There was general agreement that, in future cases where there is doubt regarding appropriate steps to be taken, the Executive Secretary should consult with the appropriate Chairman.

3.20 Concern was also expressed regarding the possible use of non-Contracting Party vessels reflagged through bareboat chartering operations. A number of Contracting Parties noted that effort in the 3M shrimp fishery continues to increase, creating levels of mortality beyond that recommended by the Scientific Council. After some discussion, the Fisheries Commission requested that STACTIC attempt to clarify the rules regarding chartering operations and report back at this meeting. The resulting document (FC Doc.00/12) was **adopted** for 2001 (Annex 8).

3.21 Regarding Agenda item 12, Increase in inspection presence in the NAFO Regulatory Area, the Representatives of Canada and the EU expressed concern regarding the lack of inspection presence of other Contracting Parties in the NAFO Regulatory Area. Although the EU (supported by Canada) tabled a proposal to introduce rules concerning obligatory inspection presence, no action was taken in this regard. It was requested that this issue be addressed more fully at the 2001 NAFO Annual Meeting. It was **agreed** that the current measures in place for inspection presence should be continued for 2001.

3.22 With respect to Agenda item 13, the acting Chairman of STACTIC, J.W. Baird (Canada), provided the report of STACTIC at the Annual Meeting. Regarding the STACTIC review of the annual returns of infringements, it was noted that there had been an overall improvement on the level of Contracting Party reporting on the disposition of apparent infringements. With regard to the STACTIC review of surveillance and inspection reports, Canada and the EU presented information on surveillance activities during 1999.

3.23 Discussions in STACTIC relating to the review of the operation of the hail system examined papers relating to: the NEAFC scheme for automated communications (STACTIC Working Paper 00/14); the current NAFO hail system (STACTIC Working Paper 00/18); confidentiality of information collected through automated hail reports and satellite tracking (STACTIC Working Paper 00/19). Topics addressed during this discussion related to modes of transmission of data, costs, and security. Additionally, an ad hoc STACTIC working group presented the results of a comparison between the NAFO and NEAFC systems. STACTIC agreed to pass on proposed format changes to the current NAFO hail system (found in STACTIC Working Paper 00/32) to the Fisheries Commission for consideration. This proposal was subsequently **adopted** by the Fisheries Commission as FC Doc. 00/14 (Annex 9).

3.24 Regarding the NAFO Observer and Satellite Tracking Programs, STACTIC examined the scientific requirements of the programs (as reflected in SCS Doc. 00/23 - Harmonized NAFO Observer Program Data System Proposal). The Committee also considered an EU proposal for an observer manual (STACTIC Working Paper 00/10), and discussed possible amendments to the existing observer program (STACTIC Working Papers 98/03, 00/20 and 00/27). After considerable discussion, STACTIC recommended, and the Fisheries Commission **adopted**, the proposal put forth in SCS Doc. 00/23.

3.25 In STACTIC discussions relating to possible improvements in the procedures for gathering discard information, the Representatives of Canada and the EU reported some improvement in recording of discards in logbooks during 2000. STACTIC also considered fishing strategies to be employed to avoid excessive incidental catches and, after some discussion and revisions, agreed to forward a proposal by Canada on this subject (STACTIC Working Paper 00/23) to the Fisheries Commission for consideration. This paper was subsequently **adopted** by the Fisheries Commission as FC Doc. 00/15 (Annex 10). Additionally, STACTIC considered possible amendments to the Conservation and Enforcement Measures regarding juvenile fish proposed by Canada (STACTIC Working Papers 00/22 and 00/24). Although there was some support for these working papers, no action on these proposals was recommended due to concerns expressed by some Contracting Parties (such as Japan and the EU).

3.26 Regarding possible harmonization of port inspection reports, the EU presented a proposal to amend the Conservation and Enforcement Measures Regarding Part VII - Port Inspections (STACTIC Working Paper 00/31). There was general support for the proposal although some concern was expressed regarding the requirements relating to transmission of reports. The paper was revised a number of times based on the comments of Contracting Parties and it was agreed that STACTIC would forward it to the Fisheries Commission for consideration. The revised working paper was subsequently **adopted** by the Fisheries Commission as FC Doc. 00/16 (Annex 11).

3.27 With respect to possible amendments to the Conservation and Enforcement Measures, there was agreement in STACTIC that an overhaul of the NAFO measures was necessary in order to ensure a cohesive document, clarify roles and responsibilities of those that would use the document, and reflect advancements in international fisheries agreements. No course of action was recommended by STACTIC regarding this issue. However, regarding the review of NAFO's Conservation and Enforcement Measures, Denmark (in respect of Faroe Islands and Greenland) suggested that a working paper be developed in which the present rules were split in four columns (rules for vessels, inspectors/observers, Contracting Parties and NAFO Secretariat). All present text and sequence should be retained. Canada and the European Community offered to make a preliminary review of these measures to identify redundancies and inconsistencies in the measures. The review shall be circulated to Contracting Parties by **June 30, 2001**. This activity will be organized by Canada. This course of action was **adopted** by the Fisheries Commission.

3.28 STACTIC also considered issues relating to chartering arrangements, reviewing Fisheries Commission Working Papers from the United States and Poland and a STACTIC Working Paper from Ukraine on the subject. The language recommended by STACTIC was subsequently adopted by the Fisheries Commission as noted in the section of this report concerning Chartering Operations. Additionally, STACTIC considered STACTIC Working Paper 00/29 regarding an increase of inspection presence in the NAFO Regulatory Area and STACTIC Working Paper 00/30 regarding satellite based vessel monitoring and related measures. These issues were both passed back to the Fisheries Commission for further consideration. The Fisheries Commission **adopted** the Report of STACTIC at the Annual Meeting.

3.29 With respect to Agenda item 14, Canadian Management Measures for 2J3KL Cod in 2000, the Representative of the EU strongly objected to the 7000 mt inshore fishery that took place in Canada in 2000. He noted his concern that, given the Canadian fishery, the management measures in place are not consistent throughout the range of this stock. The concerns of the EU were echoed by a number of the Contracting Parties present.

3.30 The Representative of Canada stated that Canada has the right to set TACs for the 2J3KL cod stock within Canadian waters and clarified that this was a small scale, highly regulated fishery. He noted the domestic process in place to recommend TACs and regulate this fishery, and pointed out that the data provided through this fishery is an important contribution to the conservation of this stock. Additionally, the Canadian delegate emphasized the current and historical importance of this fishery to the Canadian people and insisted that Canada would never do anything to endanger the stock. The EU Representative responded by making a statement on the management of this stock (Annex 12).

4. Conservation of Fish Stocks in the Regulatory Area
(items 15-19)

4.1 With respect to item 15 of the Agenda, Summary of Scientific Advice, the Chairman of the Scientific Council, Dr. W.B. Brodie (Canada) presented a summary of NAFO SCS Doc 00/24 "Report of the Scientific Council, 1-15 June 2000" which provides the scientific advice for the management of stocks in the NAFO Regulatory Area for 2001 and 2002 and addresses special requests to the Scientific Council. He summarized this advice in the table below.

ADVICE FOR 2001

Shrimp 3M	Not to exceed 30,000mt
Redfish 3M	3,000-5,000mt
Cod 3M	No directed fishery, lowest possible by-catch
American plaice 3M	No directed fishery, lowest possible by-catch
Witch flounder 3NO	No directed fishery, lowest possible by-catch
Cod 3NO	No directed fishery, lowest possible by-catch
American plaice 3LNO	No directed fishery, lowest possible by-catch
Redfish 3LN	No directed fishery, lowest possible by-catch
Witch Flounder 2J3KL	No directed fishery, lowest possible by-catch
Yellowtail flounder 3LNO	13,000mt
Squid (*Illex*) 3+4	19,000-34,000mt
Greenland halibut 2+3KLMNO	Not to exceed 40,000mt

ADVICE FOR 2002

Cod 3M	No directed fishery, lowest possible by-catch
American plaice 3M	No directed fishery, lowest possible by-catch
Witch flounder 3NO	No directed fishery, lowest possible by-catch

4.2 Special requests for advice were submitted for: **3NO Capelin; precautionary measures** for NAFO stocks; **Squid** in Subareas 3&4; information on **catches and/or discards of juvenile fish** in various NAFO fisheries; **elasmobranchs** in SubAreas 0-6; and **3LN shrimp**. With respect to **3M shrimp**, Dr Brodie noted that some uncertainty exists with regard to the status of this stock and the Scientific Council would review its advice in November 2000.

Inquiries were made to the Chairman of the Scientific Council to clarify several questions regarding the scientific advice.

4.3 With respect to **3M redfish**, the Representative of Canada noted that the June 2000 Scientific Council Report stated that bycatch of age 1 fish is at about 20% of the total

number. He asked for clarification on the consequences of this level of mortality with regard to rebuilding of the stock, given the significance of this increase. Dr. Brodie noted that, although the Scientific Council previously did some analyses on potential losses of yield due to bycatch, since the introduction of new grates that reduce bycatch, no new examination has taken place. He noted that a new examination would have to be made in order to provide a comparison.

4.4 In reference to the question from Canada regarding bycatches of **3M redfish**, the Representative of the United States asked if recommended TACs for NAFO fisheries cover all sources of mortality and, if not, what were the consequences of not including these data. In response, the Scientific Council Chair noted that all removals are considered in recommending NAFO TACs.

4.5 Regarding the NEAFC-managed **redfish** stock that is now being found in NAFO **Div. 1F**, the Representative of Norway asked if the Scientific Council had any information on the distribution of this stock or advice on technical management measures given the deep, pelagic nature of this stock. The Scientific Council Chair noted that, although there is some knowledge among members of the Scientific Council regarding this stock, no formal discussion had yet taken place. Thus, no advice was possible at this time.

4.6 Regarding **3M shrimp**, the Representative of Norway noted that actual catches of this stock are estimated to be in the 40,000t range, while the Scientific advice for 2000 is based on estimates of 30, 000mt. He asked for comments from the Scientific Council Chair regarding how the actual catches in 2000 might affect the scientific advice for this stock in 2001. In response, the Scientific Council Chair noted the large degree of uncertainty associated with the status of this stock due to a lack of information. Although all available information was taken into account by the Scientific Council in recommending the TAC for 2001, certain assumptions had to be made. He noted that the Scientific Council would be considering this stock again in November 2000.

4.7 Regarding **3M shrimp**, the Representative of Iceland noted his county's intention to contribute to the Scientific Council evaluation regarding the effects of closed areas on this stock. He noted Iceland's particular concern regarding the effects of bycatch of very small shrimp in this fishery and expressed the desire to be part of the discussions on this issue at the November 2000 meeting of the Scientific Council.

4.8 With regard to **3M shrimp**, the Representative of the United States noted that, given the estimated catches in this fishery, it is clear that effort management has not been successful. She asked if the Scientific Council will be able to provide any additional advice on this stock without a direct survey. The Chair stated that, given the higher than estimated catches and the lack of appropriate recruitment indices, it is unlikely that things will improve for this stock. However, he noted that there may be some additional, initial data available this year from surveys conducted by Denmark.

4.9 With respect to **Greenland halibut**, the Representative of Canada expressed concern that current catches of juveniles might lead to a forgoing of future potential yield. He asked if the presence of these fish is a consequence of the mesh size used in the Greenland halibut fishery. The Scientific Council Chair noted that current estimates for maturity differs between males and females in the Greenland halibut fishery and that these differences present a problem for recommending appropriate mesh size. The Chair stated that the Council had looked at a number of different models and average retention rates resulting from the simulations, but that results were quite variable depending on assumptions used

in a given model. He noted that if the goal were to only catch fully mature Greenland halibut, the mesh size would have to be increased considerably.

4.10 Regarding **Greenland halibut**, the Representative of Canada noted the recommended increased TAC based on biomass increases and asked the Scientific Council Chair if there were any preliminary data from the survey series this summer that would confirm this biomass increase. The Chair responded that there was no information yet available from the EU survey series, although some preliminary indications are that there may be a slight reduction between 1999 and 2000. He noted that the information from the Canadian survey will be considered soon.

4.11 In response to a question from the Representative of the EU, the Scientific Council Chair noted that exploitable biomass and spawning stock biomass should increase if **2+3KLMNO Greenland halibut** mortality remains at the current level of 40,000t. Regarding a second question from the EU on the implications to the yield of this stock of an increase to a 145mm mesh size, the Chair noted that a study on this could be done. He noted that a new analysis would be required, and he could not indicate how long such a study might take.

4.12 In response to a question from the United States regarding the availability of data gathered in sentinel and index fisheries for **Greenland halibut** from fishery independent sources, the Scientific Council Chair noted that he was not aware of any fishery independent sources for such data.

4.13 Regarding **yellowtail flounder**, the Representative of the EU asked if the recommended 13,000mt TAC is consistent with NAFO's goal of keeping bycatches of stocks under moratoria at the lowest possible level. The Scientific Council Chair stated that there would be some implications associated with this TAC, but clarified that bycatch in this fishery is not currently detrimental.

4.14 With respect to **2J+3KL cod**, the Representative of the EU asked for clarification regarding the use made of information from the inshore index, sentinel, and food/recreational fisheries for this stock. The Scientific Chair noted the value of inshore data, stating that such data (including catch rate, distribution, age composition, size, etc.) have been gathered from the index fishery in 1998, the commercial fishery in 1999, and sentinel surveys taken from varying sites around Newfoundland during 1995-2000. The Representative of the EU then requested information regarding the status of this stock and the impact of a fishery at the 7000mt level (for 2000) with respect to precautionary criteria as proposed by the Scientific Council and reference points previously used for management of this stock. The Chair of the Scientific Council responded that this issue had not yet been considered by the Council and that it would not be possible to do so at this meeting.

4.15 Regarding possible evaluation of this stock in the future relative to the precautionary approach, he noted that it is clear that the stock is well below the levels of the 1980s. However, he pointed out that early estimates of this stock were based on assessments of both the inshore and offshore components, while the remaining stock is primarily inshore. In response to requests from the Representative of the EU regarding evaluation of the effects of a 7000mt to 9000mt fishery on rebuilding of the inshore/offshore fisheries in the future, and estimating the proportion of juvenile fish taken in the inshore fishery, the Scientific Council Chair noted that these issues could be discussed at this meeting, but results would not be available since the necessary database and personnel were not

present. The Scientific Council Chair then asked that the EU provide clarification regarding its final question on this stock, which dealt with the implications to the genetic diversity of this stock of concentrated fishing on local aggregations.

4.16 The Representative of Canada noted that the bycatch for **American plaice** was high given its status as a stock under moratorium, noting that some bycatch was in the yellowtail flounder fishery but much more was in the Greenland halibut fishery. Noting that if the TAC for Greenland halibut is increased, bycatches of American plaice will also increase, he asked if this advice is consistent with recommendations in place for American plaice. The Scientific Council Chair agreed that increased bycatch would likely result, and cited the Scientific Council estimates of these bycatches in the Scientific Council Report.

4.17 In response to a question form the Representative of Iceland relating to the effects of **harp seal predation on cod stocks**, the Scientific Council Chair provided a brief summary of the Scientific Council discussions on this issue. This information can be found on page 158 of the Scientific Council Report.

4.18 The Chairman of the Fisheries Commission then summarized the outstanding questions to the Scientific Council and requested that these questions be put into writing for further consideration by the Council at this meeting as appropriate.

4.19 With respect to Agenda item 16, management and technical measures for fish stocks in the Regulatory Area in 2001, it was **agreed that moratoria** should remain in place for **3M cod** and **3M American plaice**. It was also agreed that a TAC of 5000mt should be set for **3M redfish**. The representative of Latvia noted his country's intention to formally object to the block quota allocation for 3M redfish and also to further agenda items for Squid in Subareas 3+4 (block quota) and Greenland halibut in 3LMNO (others quota). With regard to **3M shrimp**, it was **decided** that the effort scheme currently in place for 2000 should be rolled over for 2001 as indicated in FC Doc. 00/11. The Representative of Iceland noted his country's well established concern regarding effort-based management of this stock and stated that Iceland would once again formally object to this scheme. He also noted Iceland's support for a closed area for the protection of juvenile 3M shrimp.

4.20 Regarding Agenda item 17, management and technical measures for fish stocks straddling national fishing limits in 2001, its was generally **agreed that moratoria** should remain in place for **3NO cod, 3LN redfish, 3LNO American plaice, 3NO witch flounder, and 3NO capelin**. Regarding **3LNO yellowtail flounder**, the Representatives of Canada supported the proposed increase to 13,000mt, calling for a continuation of precautionary approach considerations and bycatch controls. While initially expressing concern regarding a possible TAC increase for this stock, following further discussion the United States removed its objection to this proposal. Additionally, the Representative of the United States expressed the desire to address appropriate allocation of this stock. The Representative of the EU expressed concern about the possible TAC increase.

4.21 Regarding **Sub-Areas 3+4 squid**, there was general support for a TAC of 34,000t with the protocol as expressed in FC Working Paper 00/10 for mid-season adjustment based on productivity indicators. However, the Representative of the United States noted that, given the imprecise advice on this stock, it should be discussed whether setting the TAC

at the top of the suggested range is appropriately precautionary. FC Doc.17, prohibiting any directed **shrimp fishery in Div. 3NO** was **adopted** (Annex13).

4.22 With respect to **3LMNO Greenland halibut**, the Representative of the EU expressed support, in principle, for an increase to 40,000mt. However, he noted that caution was advisable given the uncertainty surrounding year classes in the mid-1990s and the fact that much of the current catch is juvenile. The Representative of Canada noted that the good news concerning this stock should be tempered by the high level of juvenile catch. He also urged caution and noted that any TAC above 30,000t should include measures to address juvenile and bycatch concerns. The Representatives of Japan, Latvia, and Lithuania supported a TAC increase to 40,000t. Following further discussion, it was decided that the 40,000mt TAC for Greenland halibut stock in Subarea 2+3 be **adopted** for 2001. According to the decision (Resolution, FC Doc. 95/7) of the Special Fisheries Commission Meeting (Toronto, 1995), 25.9% (or 10,360 mt) of this amount is allocated to Canada, inside 200-mile zone, and other portion - 29,640 mt will be distributed to Contracting Parties (Quota Table). With regard to the issues of juveniles and bycatch, FC Doc. 00/15 was **adopted** (see Annex 10) and a statement was adopted as follows:

All NAFO Contracting Parties strongly support the establishment and full implementation of measures to protect juveniles and reduce bycatch.

Having agreed at its 22nd Annual Meeting to adopt a proposal to amend NAFO Conservation and Enforcement Measures regarding incidental catch limits, NAFO Contracting Parties hereby agree to consider the following measures to further protect juveniles and reduce bycatch at the June 2001 meeting of the Scientific Council and a 2001 intersessional meeting of STACTIC:

such as:
a) mesh size increases;
b) depth restrictions;
c) area closures; or
d) other effective measures.

In the light of the outcome of the 2001 meeting of the Scientific Council and any other relevant scientific evidence, suitable measures will be examined and, as appropriate, designed and implemented in 2002 with due consideration of conservation requirements and the particularities of various NAFO fisheries.

4.23 The Representative of Canada noted that he agreed to the insertion of the above statement. However, he expressed strong disappointment with regard to the measures taken thus far for the protection of juveniles and reduction of bycatch for this fishery. This statement was fully supported by the Representative of the United States.

4.24 Regarding **2J3KL cod**, it was **agreed** that the measures in place for this fishery for 2000 should be extended for 2001 (as indicated in FC Doc. 00/10 - see Annex 14). It was agreed that the moratorium in place for **3L cod** should continue. The European Union reiterated his Party's dissatisfaction regarding Canadian activities with regard to the inshore component of this fishery.

4.25 With respect to **2J3KL witch flounder**, the Representative of Canada noted that there is a moratorium on this stock in the Canadian 200-mile zone and asked that NAFO continue this moratorium in the Regulatory Area. It was **agreed** that this moratorium should be

continued and that the measures in place in the Regulatory Area for this stock should be updated to reflect this decision (FC Doc. 00/9 - Annex 15).

4.26 Regarding **Div. 1F redfish**, the Representative of Denmark (in respect of the Faroe Islands and Greenland) noted that this pelagic spillover stock is managed by the NEAFC and also falls within the national jurisdiction of some NAFO Contracting Parties. He stated that there was a need to discuss possible scenarios for management and suggested that NAFO might agree to implement management measures adopted by NEAFC for this stock in the NAFO Regulatory Area. At the very least, NAFO should adopt a 100mm mesh size for this fishery. The Representatives of Norway, Russia, Iceland, and the EU supported this proposal, but the Representative of Canada pointed out that there is a need to clarify all measures that might apply to this stock before this proposal could be considered properly. The United States clarified that, since this could be considered a new fishery, it must be understood that any agreements pertaining to this stock should not prejudice on-going discussions relating to allocation of new fisheries.

4.27 Since it was brought to the attention of Contracting Parties that recently oceanic redfish (*Sebastes mentella*) from the NEAFC Regulatory Area had crossed into Division 1F of the NAFO Regulatory Area, it was **agreed** to invite NEAFC to participate in a Joint NEAFC/NAFO Working Group to discuss various issues pertaining to this situation with a view to developing a compatible management approach to the pelagic *Sebastes mentella* stock. This Joint Working Group should meet during 13-14 February 2001 in Reykjavik, Iceland.

4.28 After a brief discussion regarding footnoting, the quota table for 2001 was **adopted** (Annex 16).

4.29 With respect to Agenda item 18, formulation of request to the Scientific Council, the Representative of the United States (supported by Canada and the EU) suggested that text be added to the request to address the issue of the implications of mesh size changes with regard to the 2+3KLMNO Greenland halibut fishery. A number of Contracting Parties suggested slight revisions to the initial draft. Additionally, the Representative of Russia called for the inclusion of text requesting advice regarding the methodology for scientific research on fish stocks under moratoria. The Representative of Iceland also asked that language from last year's request be included dealing with an evaluation of the possible results of closed areas on the 3M shrimp fishery. All three of these proposed additions were **adopted**.

4.30 In response to a call from the EU for the Scientific Council to provide advice on 2J3KL cod throughout its entire range, the Representative of Canada noted that they are responsible for this stock and this issue will be addressed in the Canadian request for advice from the Scientific Council. The (amended) request for advice from the Scientific Council for 2001 was **adopted** (Annex 17).

4.31 There was no discussion relating to Agenda item 19, transfers of quotas between Contracting Parties.

5. Closing Procedures (items 20-22)

5.1 Regarding Agenda item 20, Time and Place of Next Meeting, the Fisheries Commission's Annual Meeting in the year 2001will be held in Cuba (location and date to be

determined). It was noted that the list of intersessional meetings would be forwarded to the General Council for consideration.

5.2 With respect to Agenda item 21, Other Business, the Chairman of the Fisheries Commission noted that a proposal had been circulated by the Ukraine for a chartering operation for 3M shrimp. The Representative of the Ukraine spoke to this proposal, noting that its text was based on the newly negotiated language guiding this process. He asked that, given the time constraints involved, Contracting Parties consider this proposal at this meeting and vote accordingly. However, following comments by Contracting Parties, it was decided that the proposal of the Ukraine should be considered according to established procedures.

5.3 Agenda item 22, Adjournment, the Annual Meeting of the Fisheries Commission was adjourned at 1250 hours on Friday, 22 September 2000.

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Annex 2. Agenda

I. Opening Procedure

1. Opening by the Chairman, P. Gullestad (Norway)
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 Brussels Working Group on Precautionary Approach (PA)
8. Report of STACTIC June Meeting
9. Inspection and Control Measures in the NAFO Regulatory Area
10. Report of the Working Group on the Allocation of Fishing Rights
    a) Report of the Meeting on Shrimp Stocks
11. Review of the provisions on chartering operations in the NAFO Regulatory Area
12. Increase of inspection presence in the NAFO Regulatory Area
13. Report of STACTIC at the Annual Meeting
14. Canadian Management Measures for 2J3KL Cod in 2000

IV. Conservation of Fish Stocks in the Regulatory Area

15. Summary of Scientific Advice by the Scientific Council
16. Management and Technical Measures for Fish Stocks in the Regulatory Area, 2001
    - 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, 2000
    - 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 Redfish in Division 1F

18. Formulation of Request to the Scientific Council for:

  a) Scientific advice on the management of fish stocks in 2002

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. Amendment to the Conservation and Enforcement Measures regarding Observers

(FC Doc. 00/8)

This proposal was discussed by STACTIC during June 2000 Meeting and formalized/adopted during current 22nd Annual Meeting, September 19/00 with recommendation to the Fisheries Commission to amend Part VI.A.1(a) to read (in brackets and bold):

A. Observers

1. Each Contracting Party shall require all its vessels fishing in the Regulatory Area to accept observers on the basis of the following:

   a) each Contracting Party shall have the primary responsibility to obtain, for placement on its vessels, independent and impartial observers. (Observers are not to perform duties, other than those described in Sections 3, 4 and 5 below.)

Annex 4. Proposal to amend the NAFO Conservation and Enforcement Measures with a view to introducing satellite based vessel monitoring and related measures

(FC Doc. 00/13)

Introduction

Contracting Parties have agreed to require all vessels fishing in the Regulatory Area to be equipped with satellite tracking devices not later than January 1, 2001. The purpose of the amendment is to adopt detailed rules for satellite tracking and to adjust the Hail System requirements since certain report types become superfluous with satellite tracking. The proposed detailed measures for satellite tracking are identical to the ones contained in the Scheme of control and enforcement applicable in the NEAFC Regulatory Area. The amendment should be applicable no later than July 1st, 2001.

Proposal

Draft amendment (to enter into force no later than July 1, 2001)

- **Part VI – Programme for Observers and Satellite tracking**

- Chapeau : the terms "for application in 2001" are replaced by the terms "for application in 2003"
- Section B :
- The title is replaced by : "Satellite tracking/ Vessel monitoring System "VMS" "
- The current text is replaced by the following text :

"1. Each Contracting Party shall ensure that each of its vessels operating in the Regulatory Area is equipped with a satellite tracking device allowing the continuous tracking of its position by the Contracting Party.

To that end the satellite tracking device shall ensure the automatic communication at least once every six hours when operating in the Regulatory Area to a land-based fisheries monitoring centre (hereafter referred to as FMC) of data relating to:

- the vessel identification;
- 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%;
- the date and time of the fixing of the said position of the vessel.

Each Contracting Party shall take the necessary measures to ensure that its FMC receives these data.

2. 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.

3. Each Contracting Party shall take the necessary measures to ensure that the VMS data received from its fishing vessels are recorded in computer readable form for a period of three years.

4. The masters of fishing vessels shall ensure that the satellite tracking devices are at all times fully operational and that the information in paragraph 1. is transmitted. In the event of a technical failure or non-operation of the satellite tracking 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 authorised to commence a fishing trip with a defective satellite tracking 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, the fishing vessel shall not be authorised to continue or commence a fishing trip without the satellite tracking device having been repaired or replaced.

5. Each Contracting Party shall ensure that a fishing vessel with a defective satellite tracking device shall communicate, at least daily, reports containing the information in paragraph 1. to the FMC, by other means of communication (radio, facsimile or telex).

6. Each Contracting Party shall communicate reports and messages pursuant to paragraph 1. and paragraph 5. 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, radio, facsimile or telex) to the Executive Secretary.

7. Each Contracting Party shall ensure that the reports and messages transmitted between the Contracting Party and the Executive Secretary or if the Contracting Party so desires, between its fishing vessels and the Executive Secretary, shall be in accordance with the data exchange format set out in Annex II. (Part III "VMS position report format")

8. The Executive Secretary shall make available as soon as possible the information received under paragraph 7. to other Contracting Parties with an active inspection presence in the Regulatory Area. All reports and messages shall be treated in a confidential manner.

9. Each Contracting Party shall notify the name, address, telephone, telex and facsimile numbers as well as the addresses for electronic communication of their relevant authorities to the Executive Secretary before 1 July 2001 and thereafter any changes without delay.

10. Subject to any other arrangements between Contracting Parties, each Contracting Party shall pay all costs associated with this system."

VMS position report format
(Annex II of Part III)

Data Element:	**Code:**	**Mandatory / Optional**	**Remarks:**
Start record	SR	M	System detail; indicates start of record
From	FR	M	Address of the transmitting party (Contracting Party)
Address	AD	M	Message detail; destination; **XNS**" for NAFO Secretariat
Sequence Number	SQ	O	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, "POS" as Position report/message to be communicated by VMS or other means by vessels with a defective satellite tracking device
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	M	Vessel registration detail; name of the vessel
External Registration Number	XR	M	Vessel registration detail; the side number of the vessel
Latitude	LA	M	Activity detail; position at time of transmission
Longitude	LO	M	Activity detail; position at time of transmission
Date	DA	M	Message detail; date of transmission
Time	TI	M	Message detail; time of transmission
Record Date	RD	M	Year, month and date
Record Time	RT	M	Hours and minutes in UTC
Record Number	RN	M	Serial number of the record in the relevant year
End of record	ER	M	System detail; indicates end of the record

Each data transmission is structured as follows:

- double slash ("//") and the characters "SR" indicate the start of a message;
- a double slash ("//") and field code indicate the start of a data element;
- a single slash ("/") separates the field code and the data;
- pairs of data are separated by space;
- the characters "ER" and a double slash ("//")indicate the end of a record.

Annex 5. Amendment to NAFO Conservation and Enforcement Measures regarding Shrimp in Division 3M

(FC Doc. 00/11)

Part I.G. to read (amendment in bold):

G. Other Measures - Management Measures for Shrimp in Div. 3M

1. Vessels fishing for shrimps in Division 3M in 2001 shall use nets with a minimum mesh size of 40 mm.

2. Vessels fishing for shrimp in Division 3M in 2001 shall use sorting grids or grates maximum spacing between the bars of 22 mm.

3. In the event that total by-catches of all regulated groundfish species in any haul exceed 5 percent by weight, vessel shall immediately change fishing area (minimum of 5 nautical miles) in order to seek to avoid further by-catches of regulated groundfish.

4. a) Each Contracting Party shall limit in 2001 the number of vessels fishing for shrimp in Div. 3M to the number that have participated in this fishery in the period from 1 January 1993 to 31 August 1995.

   b) Each Contracting Party shall, in 2001, limit the number of fishing days by its vessels fishing for shrimp in Div. 3M to 90% of the maximum number of fishing days observed for their vessels in one of the years 1993, 1994 or 1995 (until 31 August 1995). However, for Contracting Parties with a track record in the period from 1 January 1993 to 31 August 1995, a minimum level of 400 fishing days is permitted.

   c) Contracting Parties with no track record in the shrimp fishery in the period from 1 January 1993 to 31 August 1995 may, in 2001, fish for shrimp with one vessel in 100 fishing days.

   d) Each Contracting Party shall communicate the number of fishing days to the Executive Secretary before 1 November **2000,** that are available to that Contracting Party for 2001. The number of days shall be counted from the hail reports of vessels fishing for shrimp in Div. 3M and shall include the days of entry and exit from the Regulatory Area. In the case where vessels fishing for shrimp and other species on the same trip the number of days shall be counted from the day the vessel entered the shrimp fishery to the day the vessel ceased that fishery.

   The Executive Secretary shall scrutinize the communications from the Contracting Parties, work with the relevant Contracting Parties if discrepancies are revealed, and by 1 December **2000** notify the number of vessels and fishing days applicable to all Contracting Parties.

   e) Vessels fishing for 3M shrimp may fish this stock in 2001 in Division 3M and in the area defined by the coordinates in footnote [1]. However, in the period from June 1, 2001 (00.01 GMT) to September 30, 2001 (24.00 GMT), fishing for shrimp in the area defined by the coordinates in footnote [2] is prohibited.

   f) Each Contracting Party shall, within 30 days following the calendar month in which the catches were made, report provisional monthly fishing days in Div. 3M and the

area defined in footnote 1 to the Executive Secretary. The Executive Secretary shall, within 10 days following the monthly deadlines for receipt of the provisional fishing days statistics, collate the information received and circulate it to Contracting Parties.

g) For vessels conducting trans-zonal fishery for shrimps between Div. 3M and the area defined in footnote 1, the same regulations as in NAFO Conservation and Enforcement Measures, Part III – Annex I – Hail System Message Format, no. 1.3., shall apply.

h) Each Contracting Party shall in 2001 closely monitor its vessels fishing for shrimp and close the fishery when the number of fishing days available to that Party is exhausted. The number of fishing days shall be counted from the hail reports of vessel fishing for shrimp and shall include the days of entry or moves into Div. 3M and the area defined in footnote 1 and the days of moves or exit from Div. 3M and the area defined in footnote 1.

i) In the case where a vessel is fishing for shrimp and other species on the same trip, the change of fishery shall be hailed and the number of fishing days counted accordingly.

j) Fishing days of a Contracting Party may only be utilized by a vessel flying the flag of another Contracting Party under the conditions provided in I.B.

k) Fishing days are not transferable between Contracting Parties.

l) This management plan for 2001 will be reviewed at the Special Meeting of the Fisheries Commission on Shrimp in light of the most recent advice from the Scientific Council and the outcome of the Special Meeting.

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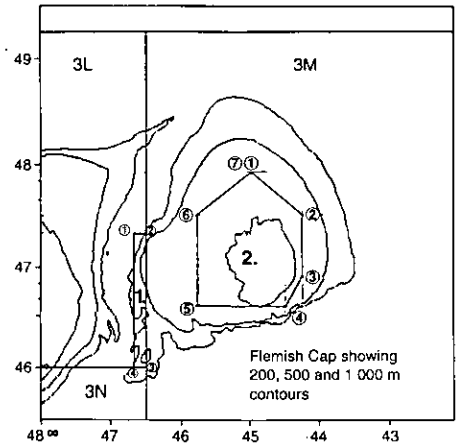
[1]

Point No.	Latitude	Longitude
1	47°20'0	46°40'0
2	47°20'0	46°30'0
3	46°00'0	46°30'0
4	46°00'0	46°40'0

[2] (see the map below)

Point No.	Latitude	Longitude
1 (same as no. 7)	47°55'0	45°00'0
2	47°30'0	44°15'0
3	46°55'0	44°15'0
4	46°35'0	44°30'0
5	46°35'0	45°40'0
6	47°30'0	45°40'0
7 (same as no. 1)	47°55'0	45°00'0



Annex 6. Working Group on 3M Shrimp Fishery Data
27 March 2001, Copenhagen, Denmark

Provisional Agenda

1. Opening by the Chair, H. Koster (EU)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Review and validation of catch and effort data for 3M shrimp
5. Adjournment

Annex 7. Special Fisheries Commission Meeting on Shrimp Allocation and Management in the NAFO Regulatory Area 28-29 March 2001, Copenhagen, Denmark

Provisional Agenda

1. Opening by the Chairman, P. Gullestad (Norway)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Evaluation of existing effort management system in Division 3M
5. Possible establishment of a TAC in Division 3M
6. Allocation of fishing opportunities among Contracting Parties in the NAFO Regulatory Area
7. Other business
8. Adjournment

Annex 8. Paper on Chartering

(FC Doc. 00/12)

Proposal to Modify Part I.B. and I.G. of NAFO Conservation and Enforcement Measures
(amendments underlined)

Amend Part I.B. as follows:

B. Chartering Arrangements

1. Replace the wording by:

   "Each Contracting Party may utilize partly or wholly quota and shrimp fishing days allocated to that Party under Schedule I and Part I.G by way of charter arrangement with a fishing vessel flying the flag of another Contracting Party notified in accordance with Part III.D, subject to:

   - the consent of the flag Contracting Party;
   - a favourable proposal adopted through a mail vote in accordance with Article XI.2 of the Convention.

2. Contracting Parties shall limit such charter arrangements to one fishing vessel per year and for a limited duration not exceeding 6 months.

3. 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 NAFO Executive Secretary:

   - the name and registration of the chartered vessel and the relevant flag Contracting Party
   - a copy of the charter
   - the fishing possibilities concerned
   - the date as from which the vessel is authorized to commence fishing on these fishing possibilities
   - the duration of the charter

4. The relevant flag Contracting Party shall notify in writing its consent to the NAFO Executive Secretary.

5. The NAFO Executive Secretary shall circulate the above information and the consent of the flag Contracting Party without delay to Contracting Parties.

6. The relevant flag Contracting Party is responsible for ensuring that the vessel complies with the requirements of the NAFO Conservation and Enforcement Measures. This does not nullify the obligations of the Contracting Party to which the quota and shrimp fishing days have been allocated under Part I of the Conservation and Enforcement Measures, as appropriate.

7. All catches and incidental catches from such chartering arrangements shall be recorded by the relevant flag Contracting Party separate from other national catch data recorded according to Part I.D., and 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 Part I.D. The Executive Secretary shall add these catches to the catch statistics of the Contracting Party to which the fishing possibilities have originally been allocated.

8. As a pilot project, these provisions shall apply only to the year 2001.

Amend Part I.G. as follows:

- Insert a new point I.G.4.j) which would read:

"j) Fishing days of a Contracting Party may only be utilized by a vessel flying the flag of another Contracting Party under the conditions provided in I.B (chartering arrangements)."

- Renumber point I.G.4.j) as point I.G.4.k) which would read:

k) "Fishing days are not transferable between Contracting Parties" (deletion of the last part of the sentence)

Annex 9. Formats for the Electronic Transmission of NAFO Hails from Contracting Parties to the NAFO Secretariat

(FC Doc. 00/14)

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 XNS 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 "XNS" 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/timeof 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 "XNS" 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/timeof 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 "XNS" 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/timeof 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 "XNS" 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/timeof 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 "XNS" 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/timeof 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//

Definition of data elements

Data Element	Field Code	Type	Mandatory/Optional	Definition/Remarks
Start of Record	SR		M	Indicates start of the record
From	FR	Char*3	M	ISO-3166 Address. Address of the transmitting Contracting Party
Addressee	AD	Char*4	M	ISO-3166 Address. Address of the party receiving the message, "XNS" for NAFO
Sequence Number	SQ	Num*6	O	Message serial number
Name	NA	Char*30	M	ISO 8859.1. Name of vessel
International radio call sign	RC	Char*7	M	IRCS Code. International Radio Call sign of the vessel
External identification	XR	Char*14	M	ISO 8859.1. Side number of the vessel
Date	DA	Num*8	M	YYYYMMDD, Year, month and day
Time	TI	Num*4	M	HHMM, Hours and minutes in UTC
Latitude	LA	Char*5	M	S/NDDMM (WGS-84) e.g. //LA/N4600 = 46°00' North
Longitude	LO	Char*6	M	E/WDDDMM (WGS-84) e.g. //LO/W04631 = 46°31' West
Type of Message	TM	Char*3	M	Indication of type of message ENT/MOV/ZON/TRA/EXI
NAFO Division	DI	Char*2	M	NAFO Division
Name of Master	MA	Char*30	M	Name of the master of the fishing vessel
Quantity	OB	Char*3 Num*7	M	FAO Code. 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.
Catch	CA	Char*3 Num*7	M	FAO Code. Total 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.
Transhipped	KG	Char*3 Num*7	M	FAO Code. 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
Target Species	TS	Char*3	M	FAO Code; allowance for multiple main species
End Record	ER		M	End of record

Annex 10. Proposal to amend the NAFO Conservation and Enforcement Measures Regarding Incidental Catch Limits

(FC Doc. 00/15)

Proposal:

Amend the NAFO Conservation and Enforcement Measures to add the following paragraph (f) to Part I A 5 Incidental Catch Limits

(f) To avoid excessive incidental catch the following fishing strategy shall be implemented;

(i) If the amount of incidental catch of any one species listed in Schedule I for which no quota has been allocated in that division to that Contracting Party, in any one haul exceeds 10% of the total catch of the other species in that haul, the vessel shall immediately change fishing area to reduce the incidental catch. The vessel must move a minimum 5 nautical miles from any position of the previous haul.

(ii) In cases where a ban on fishing is in force for any particular species or an "Others" quota for any species has been fully utilized, and the amount of incidental catch of this species in any one haul exceeds 5% of the total catch of other species in that haul, the vessel shall immediately change fishing area to reduce the incidental catch. The vessel must move a minimum 5 nautical miles from any position of the previous haul.

(iii) If any future haul exceeds the permitted incidental catch limit outlined in (i) or (ii) above, whichever is applicable, the vessel shall again immediately change fishing area to reduce the incidental catch. The vessel must 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.

Annex 11. Proposal to Amend the NAFO Conservation and Enforcement Measures Regarding Part VII - Port Inspections

(FC Doc. 00/16)

Background

Part VII of the NAFO Conservation and Enforcement Measures requires Contracting Parties to ensure that port inspection take place on any occasion a fishing vessel having been fishing subject to NAFO Conservation and Enforcement Measures is discharging catch. According to the current measures, the results from port inspection shall be provided to the NAFO secretariat and shall be communicated to any other Contracting Party on request.

The content of port inspection should include verification of catches, of logbook records, mesh size and of inspection at sea. Sea inspection reports are sent to the Contracting Party without delay.

Communication of port inspection is sometimes delayed when vessels land in ports outside the Flag Contracting Party. In order to contribute to enhanced transparency and a better efficiency of the implementation of the NAFO Conservation and Enforcement Measures, it is proposed that the results of port inspection are communicated to the Flag Contracting Party without delay.

Furthermore, a standard report form would help to harmonise record of results of port inspection.

Proposal

1. Amend Part VII-1 of NAFO Conservation and Enforcement Measures to read :

Part VII-1

"(v) Results of port inspection shall include at least the information listed in Part VII – Schedule I -B.

(vi) The 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 from the date on which the inspection has been completed.

(vii) The copy of the results of the port inspection shall be transmitted to the NAFO Executive Secretary within 30 days as from the date on which the landing has been completed and shall be provided to other Contracting Party on request."

(viii) Where possible, Contracting Parties should transmit the results of the port inspection as required in (v) to (vii) in the format defined in Part VII-Schedule I-Part A.

2. Insert Part VII-Schedule I : "port inspection report" (see annex)

Part VII-Schedule I

B. Information to be inserted in the report

1. INSPECTION REFERENCES

Data Element	M /O	Category ; Definition
Inspection authority	M	Inspection detail : Name of the inspection authority or of the alternate body nominated by the authority
Date	M	Inspection detail : Date the report is compiled
Port of inspection	M	Vessel activity detail : Place where the vessel is inspected : port followed by ISO –3 code of the country as "St Johns / CAN"
Vessel Name	*M*	*Vessel registration detail; name of the vessel*

2. TRIP INFORMATION

Data Element	M /O	Category ; Definition
Date trip started	M	Vessel activity details : date started the current fishing trip
Vessel trip number	*O*	Vessel activity details : Number of the fishing trip in current year
Date Entry in the RA	M	Vessel activity details : Date the vessel entered the NRA for the current fishing trip
Date Exit from the RA	M	Vessel activity details : Date the vessel exited from the NRA for the current fishing trip
Other areas visited	O	Vessel activity detail : other area where vessel have been fishing during the current trip
Date trip Ended	M	Vessel activity details : date ended the current fishing trip

3. VESSEL IDENTIFICATION

Data Element	M /O	Category ; Definition
External Identification Number	M	Vessel registration details : Side Number of the vessel
International Radio Call Sign	M	Vessel registration details : International Radio Call Sign of the vessel
Flag State	M	Vessel registration detail; State where the vessel is registered, 3-ISO country code
NAFO Contracting Party	O (1)	Vessel registration detail :NAFO contracting party of the vessel, as ISO code of the country, EUR for European Community, NCP for Non Contracting Party
Home port	O	Vessel registration details : Port of registration of the vessel or homeport
Vessel owner	M	Vessel registration details : name and address of the vessel owner
Vessel operator	M (2)	Vessel registration details : responsible for using the vessel
Master name	O	Vessel activity details : name of the master

(1) if different from the flag state
(2) if different from the vessel owner

4. RESULT OF INSPECTION ON DISCHARGE

4.1 General information

Data Element	M /O	Category ; Definition
Start date of discharge	M	Discharge detail : date the vessel started discharge
End date of discharge	M	Discharge detail : date the vessel finished discharge
Has vessel landed all catches on board ?	M	Discharge detail : Has vessel landed all catches on board ?, answer Y if yes, N if not
Comments	O	Discharge detail : comments as necessary. If discharge as not been completed, please give an estimation on catch still on board

4.2 Quantity discharged

Data Element	M /O	Category ; Definition
Species	M	Discharge detail : FAO 3-alpha code (part V, schedule II, attachment II)
Presentation	M	Discharge detail : Product form
Live Weight	M	Quantities determined from the logbook.
Conversion factor	O	Product detail : Conversion factor as define by the master for the corresponding species, size and presentation, optional if already mention in table B
Process weight	M	Discharge detail : Quantities landed by species and presentation, in kilograms of product, rounded to the nearest 10 kg
Equivalent live weight	M	Discharge detail : Quantities landed in equivalent live weight, as "product weight x conversion factor", in kilograms, rounded to the nearest 10 kg
Comments	O	Discharge Details : free text area

4.3 Quantities staying on board the vessel

Data Element	M /O	Category ; Definition
Species	M	Discharge detail : FAO 3-alpha code (part V, schedule II, attachment II)
Presentation	M	Discharge detail : Product form
Conversion factor	O	Product detail : Conversion factor as define by the master for the corresponding species, size and presentation, optional if already mention in table B
Process weight	M	Discharge detail : Quantities landed by species and presentation, in kilograms of product, rounded to the nearest 10 kg
Equivalent live weight	M	Discharge detail : Quantities landed in equivalent live weight, as "product weight x conversion factor", in kilograms, rounded to the nearest 10 kg
Comments	O	Discharge Details : free text area

5. RESULT OF GEAR INSPECTION[1]

5.1 General information

Data Element	M /O	Category ; Definition
Date of inspection	M	Inspection detail : Date of current gear inspection
Inspected gear	M	Inspection detail : number of gear checked during port inspection

5.2 Otter trawl details

Data Element	M /O	Category ; Definition
NAFO seal number	M	Inspection detail (if required) : Number of the NAFO seal attached to the gear after inspection at sea
Is Seal Undamaged ?	M	Whether NAFO inspection seal is intact. – "yes" or "no"
Gear type	M	International Standard Statistical Classification of the Fishing Gear , OTB for otter trawl
Attachments		Otter trawl detail : attachment to footrope
Grade bar spacing	M	Otter trawl detail : grade bar spacing in millimetres
Mesh type	M	Otter trawl detail : respectively mesh type: SQ for square mesh , DI for diamant mesh
Mesh size average	M	Otter trawl detail : average mesh size in the trawl part, by pair
Trawl part	M	Trawl part measured
Mesh size	M	Mesh size in millimetres

[1] Verification shall be done when non-compliance have been cited / observed during inspection at sea.
To be filled in when port inspection also concerns inspection of gears on board. A detail form shall be filled in for every gear having been subject to port inspection

A. "Port inspection report" form

"Port inspection report"

Page n° | | **Of** | |

1. INSPECTION REFERENCE

Inspection authority	
Date of the report	
Port of inspection	
Vessel name	

2. TRIP INFORMATION[1]

Date trip started	
Trip number[2]	
Activity in the NAFO RA :	
Date Entry in the RA	
Date Exit from the RA	
Other areas visited	
Date trip ended	

1 To be filled in by the inspection authority or any alternate body nominated by the authorities as soon as the vessel land to port, based on logbook records.

[2] Where applicable

3. VESSEL IDENTIFICATION[3]

External Identification	
International Radio Call Sign	
Flag State	
NAFO Contracting Party	
Home port	
Vessel owner	
Vessel operator	
Master name	

4. RESULT OF INSPECTION OF DISCHARGE[4]

4.1 General information

Starting of discharge :	Date		Time	
Ending of discharge :	Date		Time	
Has vessel discharged all catches on board ?	YES		*If YES, fill in table 4.2*	
	NO		*IF NO, fill table 4.3*	
Comments				

4.2 Quantity discharged

Species (FAO Code)	Presentation	Live Weight (Log Book, Kg)	Conversion factor	Landing Processed Wt (kg)	Equivalent live weight (kg)	Diff (Kg)	Diff (%)

[3] To be filled in based on the license information.

[4] To be filled in after completion of discharge

Species (FAO Code)	Presentation	Live Weight (Log Book, Kg)	Conversion factor	Landing Processed Wt (kg)	Equivalent live weight (kg)	Diff (Kg)	Diff (%)

Comments	

4.3 Quantity staying on board the vessel

To be filled where part of the catches stay on board after completion of discharge

Species	Presentation	Conversion factor	Process weight (kg)	Equivalent live weight (kg)

Comments	

5. GEAR INSPECTION IN PORT [5]

5.1 General data

Number of gear inspected	
Date gear inspection	
Has the vessel been cited ? If Yes, complete the full "verification of inspection in port" form. If No, complete the form with the exception of the NAFO Seal Details.	☐ Yes ☐ No

[5] Verification shall be done when non-compliance have been cited / observed during inspection at sea.
To be filled in when port inspection also concerns inspection of gears on board. A detail form shall be filled in for every gear having been subject to port inspection

5.2 Otter Trawl details

NAFO Seal number

Is seal undamaged ? Yes ☐ No ☐

Gear Type:

Attachments:

Grate Bar Spacing (mm)

Mesh Type:

Average mesh sizes (mm)

TRAWL PART	
Wings:	
Body:	
Lengthening. Piece:	
Codend:	

Annex 12. Statement by the Representative of the European Union on 2J3KL Cod

2J3KL cod has been and continues to be one of the key fish stocks in the Northwest Atlantic. The stock has been close to collapse and consequently has been kept under moratoria for many years to protect the stock in its entirety. The EU must therefore reiterate its grave concern at Canada's action in repeating its irresponsible behaviour as seen in 1999, whereby it has taken a decision to allocate to itself a so-called "index" TAC of 7,000 tonnes for a commercial fishery for 2000. The stock has thus become subject once again to conflicting and inconsistent conservation and management measures. As in 1999, there is neither scientific justification for the decision in question nor are there any indications to allow one to distinguish between different stock components for the inshore and offshore fisheries.

This situation is, therefore, contrary to both the consistency requirements laid down in Article XI(3) of the NAFO Convention and the Precautionary Approach. It also falls short of the conservation and compatibility standards reflected in the 1995 UN Agreement on Straddling Fish Stocks. Due to the biological unity of the stock, there is a danger that efforts which aim at ensuring the long-term sustainability of the stock are being seriously undermined and that the recovery of the stock itself is in jeopardy. The EU, therefore, strongly urges Canada to adopt consistent conservation and management measures for the year 2001 for this stock.

Annex 13. Proposal to amend the Conservation and Enforcement Measures Part I.H – Other Measures – Management Measures for Shrimp in Div. 3LNO

(FC Doc. 00/17)

Background

During the 1999 meeting, the Fisheries Commission adopted a proposal for a 3L shrimp fishery (Part I.K). However, when doing so, Part I.H should also have been amended as it prohibited any directed shrimp fishery in Divisions 3LNO.

Proposal

Amend the title of Part I.H and the text of the prohibition to refer to Divisions 3NO only.

Annex 14. Amendment to NAFO Conservation and Enforcement Measures regarding 3L Cod

(FC Doc. 00/10)

Part I.

F. Other Measures - No Directed Fishery for Cod in Div. 3L in the Regulatory Area

Noting differences that have been expressed on the subject of 2J3KL cod by Contracting Parties,

Noting the need to avoid prejudice to the legal position of any Contracting Party on this subject,

Noting the provisions of Article XI(3) of the NAFO Convention, which aim at ensuring consistency between the measures established for the Regulatory Area and the measures adopted by the relevant coastal State;

Noting that the advice from the Scientific Council strongly suggests a continuation of the moratorium for the entire stock;

Directed fisheries for cod in Division 3L in the Regulatory Area shall not be permitted in **2001**.

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 **2001**.

Annex 15. Amendment to NAFO Conservation and Enforcement Measures regarding Witch Flounder in Div. 3L

(FC Doc. 00/9)

Part I.

I. Other Measures - No Directed Fishery for Witch flounder in Division 3L in the Regulatory Area

Noting the available scientific advice, and

Noting the current moratorium that is being applied by Canada to the directed fishing of this stock inside the Canadian 200 mile zone,

Directed fisheries for witch in Division 3L in the Regulatory Area shall not be permitted in **2001**.

QUOTA TABLE. Total allowable catches (TACs) and quotas (metric tons) for 2001 of particular stocks in Subareas 3 and 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.

	Cod		Redfish		American plaice		Yellowtail	Witch	Capelin	G. halibut	Squid (*Illex*)[2,3]	Shrimp
Contracting Party	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	12675[7]	0	0	4 446	N.S.[4]	5 000
2. Cuba	0	-	1750	0	-	-	-	-	0	-	510	67
3. Denmark (Faroe Islands and Greenland)	0	-	69	-	-	-	-	-	-	-	-	67
4. European Union	0	0	3100	0	0	0	260[7]	-	0	16 406	N.S.[4]	67
5. France (St. Pierre et Miquelon)	-	-	69	-	-	-	-	-	-	-	453	67
6. Iceland	-	-	-	-	-	-	-	-	-	-	-	67
7. Japan	-	-	400	-	-	-	-	-	0	3 038	510	67
8. Korea	-	-	69	-	-	-	-	-	-	-	453	67
9. Norway	0	-	-	-	-	-	-	-	0	-	-	67
10. Poland	0	-	-	-	-	-	-	-	0	-	227	67
11. Estonia												67
12. Latvia												67
13. Lithuania [1]	0	0	13 850[1]	0	0	-	-	0	0	-	1 133[1]	67
14. Russia										3 779		67
15. Ukraine												67
16. United States of America	-	-	69	-	-	-	-	-	-	-	453	67
17. Others	0	0	124	0	0	0	65[7]	0	-	1 971[5]	794	0
Total Allowable Catch	*	*	5 000[6]	*	*	*	13 000[8]	*	*	29 640	34 000	6 000

[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 40% (788 t) may be fished before 1 May 2001 and no more than 80% (1577 t) may be fished before 1 October 2001.

[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, 2001. 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 2000 of the measures to be taken to meet the advice of the NAFO Scientific Council.

[8] The provisions of Part I, Section A.5c) of NAFO Conservation and Enforcement Measures shall apply.

*No directed fishing – The provisions of Part I, Section A.5a and c of NAFO Conservation and Enforcement Measures shall apply.

Annex 17. Fisheries Commission's Request for Scientific Advice on Management in 2002 of Certain Stocks in Subareas 3 and 4, including supplementary questions on Division 3M Shrimp for 2001

(FC Doc. 00/20)

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 2001 Annual Meeting, provide advice on the scientific basis for the management of the following fish and invertebrate stocks or groups of stocks in 2002:

   Redfish (Div. 3M)
   Yellowtail flounder (Div. 3LNO)
   Squid (Sub-areas 3 and 4)
   Shrimp (Div. 3M, 3LNO)
   Greenland halibut (Sub-areas 2 and 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 2001 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)
   American plaice (Div. 3LNO; Div. 3M)
   Witch flounder (Div. 3NO)

   To implement this system of assessments in alternating years, all stocks were assessed in 1999 but advice pertained to different time periods to allow the introduction of the new scheme over time. Consequently:

   - In 2000, advice was provided for 2001 and 2002 for cod in 3M, American plaice in 3M and witch flounder in 3NO. These stocks will then next be assessed in 2002.
   - In 2001, advice will be provided for 2002 and 2003 for American plaice in 3LNO, cod in 3NO and redfish in 3LN. The next assessment of these stocks will thus be conducted in 2003.

   The Fisheries Commission requests the Scientific Council to continue to monitor the status of 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_{2000} in 2002 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 2002 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 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.

g) For squid (Illex) in Sub-areas 3 and 4, the Scientific Council is requested to advise on the level of TAC in high abundance years and on the criteria which could be reliably used to forecast changes in productivity under an annual management regime. Scientists are encouraged to further analyze available data toward developing other possible indicators that could be used under an in-season management regime for squid, recognizing that the practical use of such indicators would require that they be available as early in the season as possible.

h) For shrimp in 3M, the Fisheries Commission notes that information to date from the commercial fishery in 2000 is showing relatively high catch rates. In light of this apparent change in stock status, the Scientific Council is requested to review information from the 2000 fishery at its November 2000 meeting and to evaluate the impact on this resource of removals in year 2001 and 2002 corresponding to 25,000 t, 30,000 t, 35,000 t and 40,000 t respectively. Furthermore, the Scientific Council is requested at its November 2000 meeting to evaluate, on the basis of the best data available, whether the provision for a Div. 3M shrimp closure in FC Working Paper 99/16 (Rev.) would be a precautionary approach-based measure and, if so, whether proposed area and timing of the closure are appropriate.

4. The results described in Section 3 should include information about the reliability of the results. To this end, the following information should be included in a synoptic form:
   - Parameter uncertainty in assessments, possibly as confidence intervals
   - Robustness of assessments to alternative assumptions or data series
   - Illustration of conflicts in data series

   This information may be accompanied by quality statements giving the opinion of the Scientific Council about the reliability of the various data series for particular purposes.

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 2001 Annual Meeting of the Fisheries Commission for stocks under its responsibility requiring advice for 2002, or 2002 and 2003:
   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.

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 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}.

7. The Fisheries Commission, with the concurrence of the Coastal State, requests that the Scientific Council review available information, including any Canadian assessment

documentation on the stock status, and provide advice on catch levels for the 2J3KL witch flounder resource for 2002 and 2003. Any information pertaining to the relative distribution of the resource within the stock area, as well as changes in this distribution over time should also be provided.

8. The Scientific Council is requested to review all available information from both research vessel surveys and commercial catches on the relative biomass and geographic distribution of the following unregulated species/stocks occurring within the NAFO Regulatory Area: monkfish (*Lophius americanus*), wolffishes (*Anarhichas lupus, A. minor, A. denticulatus*), thorny skate (*Amblyraja radiata*), black dogfish (*Centroscyllium fabricii*), eelpouts (*Lycodes spp.*), longfin hake (*Urophycis chesteri*), and orange roughy (*Hoplosthethus atlanticus*).

9. The Scientific Council is requested to evaluate the distribution of the fishable biomass of the main commercial species of fish in relation to depth (in 100-m intervals). Separate values should be provided a) for fish above and below the length of 50% maturity and b) for fish above and below the current minimum landing size.

10. The Fisheries Commission also requests, with the concurrence of the Coastal State, that the Scientific Council evaluate the likely future medium-term development for Greenland halibut in 2+3KLMNO, Yellowtail flounder in 3LNO, American plaice in 3LNO (if possible) and cod in 3NO, under the following assumed constraints:

a) Closure of targeted Greenland halibut fishery in depths less than 200, 500 and 800 meters or any other depths considered appropriate. These cases, which will have to make a reasonable assumption on the redirection of effort so removed onto the remaining depth strata, should be compared with evaluation of current fishing practices.

b) Subject to the above, likely future medium-term consequences (5 to 10 years) for the yield, spawning biomass, exploitable biomass and recruitment, stating the relevant biological assumptions.

c) The scenarios should be explored for a range of fishing effort assumptions corresponding to:
   i) Maintaining overall fishing effort at the same levels as estimated in the last year for which good information is available.
   ii) Increases or decreases of +/- 30% in fishing effort from this value.
   iii) Additional scenarios as considered appropriate by the scientific Council.

   In these scenarios, the Scientific Council should evaluate whether these fishing strategies provide adequate long-term protection to juvenile fish to allow maintenance of the spawning biomass at an appropriate level.

11. The Scientific Council is requested to review the distribution of juvenile American plaice and update the distribution of yellowtail flounder based on results from comprehensive research surveys. The Scientific Council is also requested to delineate further the areas of juvenile concentration in the Southeast Shoal area and its surroundings.

12. Regarding redfish in NAFO Division 1F, the Scientific Council is requested 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.

13. With regard to shrimp in Divisions 3LNO, the Fisheries Commission, with the concurrence of the Coastal State, requests that the Scientific Council provide information on the geographical

distribution of this resource, as well as describe the relative and seasonal distribution inside and outside the NAFO Regulatory Area.

14. The Fisheries Commission requests the Scientific Council to provide information on the long-term effects of increasing mesh size from 130 mm to 145 mm in yield-per-recruit and stock spawning biomass-per recruit for Greenland halibut in 2+3KLMNO and in reducing by-catch of other species in that fishery. The Scientific Council is also requested to evaluate the medium term consequences in terms of yield and stock size of any such changes in mesh size.

15. The Fisheries Commission requests the Scientific Council to provide advice regarding the methodology for scientific research on fish stocks under moratoria.

Annex 18. List of Decisions and Actions by the Fisheries Commission (22nd Annual Meeting, 18-22 September 2000)

Substantive Issue	Decision/Action (FC Doc. 00/21, Part I: item)
1. Precautionary Approach (management NAFO stocks)	Discussed: items 3.1-3.8 Decided to convene a group of technical experts in 2001, which will consider new recommendations to the Fisheries Commission.
2. Allocation of Fishing Rights	Discussed: items 3.13-3.14 No further decision/action was taken.
3. Management of NAFO shrimp stocks	Discussed: items 3.16-3.18 Decided to convene a special meeting of the Fisheries Commission 28-29 March 2001 in Copenhagen.
4. Chartering Operations	Adopted: amendment to regulations, item 3.20 and Annex 8 (FC Doc. 00/12)
5. Conservation and Enforcement Measures: (STACTIC Report)	Discussed: items 3.22-3.28
- Formats for hail/VMS system	Adopted: item 3.23
- Scientific requirements for observers	Adopted: item 3.24
- Incidental catch	Adopted: item 3.25
- Harmonization of port inspection reports	Adopted: item 3.26
- Overhaul of NAFO Conservation and Enforcement Measures	Agreed: item 3.27
6. TAC's and Regulatory Measures for major stocks in the Regulatory Area:	Discussed/Adopted: items 4.1-4.30
- Cod 2J3KL in the Regulatory Area	no directed fishery
- Cod 3M	no directed fishery
- Cod 3NO	no directed fishery
- Redfish 3M	5,000 mt
- Redfish 3LN	no directed fishery
- American plaice 3M	no directed fishery
- American plaice 3LNO	no directed fishery
- Yellowtail 3LNO	13,000 mt
- Witch 3NO	no directed fishery
- Witch 2J3KL (in the Reg. Area)	no directed fishery
- Capelin 3NO	no directed fishery
- Greenland halibut	29,640 mt
- Squid (*Illex*)	34,000 mt
- Shrimp in Div. 3L	6,000 mt
- Shrimp in Div. 3NO	no directed fishery
7. Schedule I – Quota Table 2001	Adopted: item 4.28
8. Request to the Scientific Council for Scientific Advice on Management of Fish stocks in 2002	Adopted: item 4.29

PART II

Report of the Standing Committee on International Control (STACTIC)

22nd Annual Meeting, 18-22 September 2000 Boston, Massachusetts, USA

1. Opening of the Meeting

The Chairman, Jim Baird (Canada) opened the meeting at 1000 on 18 September 2000. Representatives from the following Contracting Parties were present: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), Estonia, the European Union (EU), France (St. Pierre & Miquelon), Iceland, Japan, Latvia, Lithuania, Norway, Russia, Ukraine and the United States.

2. Appointment of Rapporteur

Jennifer Anderson (United States) was appointed Rapporteur.

3. Adoption of Agenda

The provisional agenda, as circulated, was adopted with additional items referred from the Fisheries Commission (Annex 1).

4. Review of Annual Returns of Infringements

The Chairman commented that overall, improvements in reporting of the disposition of apparent infringements, that was noted for 1998 has continued in 1999. The representative from Canada agreed but pointed out that there were still several Contracting Parties that had not provided reports as noted in NAFO/FC Doc. 00/6. The representative from Canada asked that those Contracting Parties try to provide reports prior to the adjournment of the NAFO meetings on September 22. The representative from the European Union advised that for instances where its data were missing the cases were still pending, moreover, the European Union indicated that as data becomes available the reports will be provided to NAFO.

The representative from Canada pointed out that according to the Executive Secretary's report the outstanding reports on apparent infringements are from 1999 only. This is an improvement as in the past reports were outstanding for several years. The Contracting Parties were congratulated for addressing this long outstanding issue.

5. Review of Surveillance and Inspection Reports

The representatives from the European Union and Canada presented information (STACTIC Working Papers 00/25 and 00/26) on surveillance activities conducted during 1999.

6. Review of the Operation of the Hail System

The Chairman referred the Contracting Parties to STACTIC Working Paper 00/14 (Overview of the NEAFC Scheme re Automated Communications, 2000), STACTIC Working Paper 00/18 (Review of Operation of the Hail System, 2000) and STACTIC Working Paper 00/19 (Working Paper presented by Denmark (in respect of the Faroe Islands and Greenland) concerning

confidentiality towards information collected through automated hail reports and satellite tracking system.

The representative from Japan asked the Secretariat if NAFO would accept file transfers over X.25 connection. The Secretariat explained that the X.25 connection is being phased out in Canada and replaced by the Internet system. The Internet system can accept data from all mediums (e-mail, fax, etc.).

The representative from Denmark presented STACTIC Working Paper 00/19. He noted that Contracting Parties must have satellite tracking systems in place by January 1, 2001. When Vessel Monitoring Systems (VMS) are implemented, confidentiality and security issues must be addressed.

The representative from Denmark noted that suitable software is available for a fully functional VMS system and could be operational at NAFO at a cost of C$200,000. The representative from Canada noted that the cost of implementing data transmission from the requirements of 100% satellite tracking is considerably less than that of a VMS system.

It was agreed at the June 2000 STACTIC Technical Working Group on Communications that an automated hail system was necessary. There were different views on the mode of data transmission.

The Chairman asked the Contracting Parties to form an ad-hoc Working Group to review and compare the NAFO and NEAFC systems and present a report to STACTIC. This report was adopted and is included in Annex 2. Additionally, proposed format changes to the current NAFO hail system found in Working Paper 00/32 were tabled.

7(a). Observer Program and Satellite Tracking; Scientific Requirements/Observer Manual

The Contracting Parties reviewed STACTIC Working Paper 00/13 (Provisional Account of Observer Reports received at the NAFO Secretariat). Contracting Parties with outstanding 1999 observer reports agreed to provide them as soon as possible. Contracting Parties should ensure that observer reports are transmitted to the Secretariat as required as the absence of such reports is a breach of the observer program. This could be interpreted as a failure of some Contracting Parties to deploy observers.

STACTIC agreed that SCS Doc. 00/23 (Harmonized NAFO Observer Program Data System Proposal), that was presented at the June 2000 STACTIC Intersessional, was the most appropriate listing of scientific requirements for observers. This paper was prepared after extensive discussion at the Scientific Council, in response to a request from STACTIC to define the scientific requirements for the observer program in a harmonized format. The Scientific Council, represented by Ralph Mayo (US) and Dave Kulka (Canada), explained that the SCS Document 00/23 included information found in the Working Paper 00/10 (EU-observer manual).

The European Union clarified that its Observer Manual proposal (STACTIC WP 00/10) was actually a set of forms to be used by the observer to complete their functions.

There was a discussion of previous versions of a potential Observer Manual. It was agreed that the Canadian Observer Manual, submitted to STACTIC at the June 2000 Intersessional, would be a good starting point for development of a NAFO Observer Manual.

7(b). Amendments to Existing Programs

At the STACTIC June 2000 Intersessional meeting, it was agreed that Contracting Parties would provide updated information on how they ensure impartiality and independence for observers. The representatives from Denmark and Japan summarized STACTIC Working Papers 00/20 and 00/27, respectively on this topic. The Chairman noted that the information provided was in addition to information previously tabled at STACTIC (STACTIC W.P. 98/03).

8(a). Discussion of Other Conservation and Enforcement Measures; Examination of Possible Improvements in the Procedures for Gathering Discard Information

Canada and the European Union reported marginal improvement in the recording of discards in logbooks during 2000. It was agreed by STACTIC that further improvements on the recording of discards are required.

8(b). Review of the Fishing Strategies to be Employed to Avoid Excessive Incidental Catches

The representative of Canada summarized STACTIC Working Paper 00/23 (Proposal to Amend Conservation and Enforcement Measures Regarding Incidental Catch Limits).

After some discussion a revised proposal was accepted by all but one Contracting Party and is included as Annex 3. The representative from Japan could not support a haul by haul assessment and suggested a longer fishing period was more appropriate (Example 48 hours).

8(c). Possible Amendments to the Conservation and Enforcement Measures Regarding Juvenile Fish

The representative from Canada summarized STACTIC Working Paper 00/24 Revision 2 (Protection of Pre-recruits in Nursery Areas).

After some discussion, Canada's proposal was tabled with some support. However, dissenting views were expressed by the representatives from Japan and the European Union. The representative from Japan suggested that the current minimum mesh size requirements offer sufficient protection for juvenile fish. The representative from the European Union voiced concern that by closing an area, there would be no collection of data inside the area, that the closure could be difficult to enforce and questioned if there were alternate measures that would produce the same result. The representative from Canada responded that scientific cruises could take place inside the closed area and that 100% observer coverage and 100% satellite tracking would ensure enforceability of the closure. He also pointed out that STACTIC had been explicitly tasked with developing recommendations for protection of juveniles. He noted that Canada had tabled this proposal as well as two other proposals, and that no other Contracting Party had made any proposals.

No final agreement between the Contracting Parties was reached on this proposal.

The representative from Canada summarized STACTIC Working Paper 00/22 (Proposal to amend the NAFO Conservation and Enforcement Measures Regarding the Protection of Juvenile Groundfish). The Canadian proposal recommended an increase in minimum mesh size for groundfish and an implementation of a depth restriction for fishing Greenland halibut.

It was noted that the mesh size increase proposal was also tabled at the June Intersessional Meeting. There was no additional information provided from the Scientific Council on this issue during the course of the annual meeting. Several Contracting Parties indicated that they could not support this proposal.

There appeared to be some support for the proposal on depth restriction for Greenland halibut. However, one Contracting Party felt that further data from the Scientific Council was necessary in order to make a decision. Another Contracting Party indicated that additional consultation within their delegation was required.

8(d). Possible Harmonization of Port Inspection Reports

The representative from the European Union summarized STACTIC Working Paper 00/31 (Proposal to Amend the NAFO Conservation and Enforcement Measures Regarding Part VII – Port Inspections) and noted that it was the same working paper presented at the STACTIC June 2000 Intersessional meeting. Several Contracting Parties supported the proposal in principle but raised concerns regarding the requirement to transmit the report to the flag state within 7 working days. The representative from Canada also noted that due to the large volume of port inspections Canada performs and their inspection procedures, it would be difficult for Canada to complete the proposed NAFO port inspection report.

Based on comments from the Contracting Parties, the representative from the European Union presented a revision of Working Paper 00/31. The revised proposal would permit Contracting Parties to transmit the results of the port inspection to the flag state within 14 days, provided the flag state requested the report. It was noted that standing requests would be accepted. The revision also defined a list of mandatory information required for port inspection and also indicated that attached forms were optional.

The Contracting Parties agreed that the revised wording in the proposal was acceptable. However, the representative from Canada noted that it would support providing all the information requested by part 1 of the proposal, but could not use the data format suggested by the European Union. The representative from Denmark noted that it could not accept part C of the proposal before formal agreement of coding specifications in the North Atlantic format.

In conclusion the proposal was accepted and is included in Annex 4. STACTIC recommends the adoption of this proposal by the Fisheries Commission.

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

The Fisheries Commission asked STACTIC to consider if it was necessary to overhaul the Conservation and Enforcement Measures and if so, what process would be necessary for the overhaul.

The Contracting Parties agreed that an overhaul of the Conservation and Enforcement Measures was necessary in order to: develop a cohesive document to reflect changes that have occurred since the measure were originally drafted; to identify roles and responsibilities of vessel masters, contracting parties, inspectors and the Secretariat; to take account of advancements in other international fisheries agreements. However, the Contracting Parties were reluctant to recommend a specific structure and course of action and should seek guidance from the Fisheries Commission.

10. Time and Place of Next Meeting

The next meeting of STACTIC (VMS/confidentiality, Juveniles/by-catch) will be held in London (at NEAFC) from 26-28 June 2001.

11(a). Other Matters, Chartering Arrangements

FC Working Papers 00/6 (United States Draft Working Paper on Charters) and 00/7 (Polish Position on Charters) and STACTIC Working Paper 00/28 (Proposal to Amend Conservation and Enforcement Measures by the Ukraine) were reviewed.

Several Contracting Parties commented that the Conservation and Enforcement Measures require further clarification of charter arrangements. The Chairman suggested that STACTIC should only consider clarifying the Conservation and Enforcement Measures regarding charter arrangements and it was agreed by the Contracting Parties that the proposal by the United States to extend the pilot project and drop the mail vote provision should be considered by the Fisheries Commission.

The representative from France (in respect of St. Pierre and Miquelon) tabled STACTIC Working Paper 00/33 to provide clarification of the wording in the Conservation and Enforcement Measures respecting chartering. There was general support from the Contracting Parties for the proposal, however several Contracting Parties suggested revisions to the document's wording. The Contracting Parties agreed on the revised Working Paper 00/33.

If the Fisheries Commission decides to extend the pilot project on charters STACTIC recommends the proposal outlined in Annex 5 be adopted by the Fisheries Commission.

11(b). Increase of Inspection Presence in the NAFO Regulatory Area

The representative from the European Union summarized STACTIC Working Paper 00/29 (Proposal to Amend Conservation and Enforcement Measures with a view to Introducing New Rules Concerning Obligatory Inspection Presence in the Regulatory Area). The European Union's paper sought to share the burden connected with providing an adequate inspection presence in the NAFO Regulatory Area.

With the exception of Iceland, the Chairman noted there was general support for the proposal by the Contracting Parties. The representative from the United States suggested language to help clarify some points in the European Union's proposal. The European Union presented Working Paper 00/29 Revised. There was support for the amended proposal (Annex 6) by all but one Contracting Party. Iceland did not support this proposal and indicated in their opinion there was sufficient inspection presence in the NAFO Regulatory Area.

11(c). Integration of Vessel Monitoring System

The representative from the European Union presented STACTIC Working Paper 00/30 (Proposal to Amend the NAFO Conservation and Enforcement Measures with a view to Introducing Satellite Based Vessel Monitoring and Related Measures).

Some Contracting Parties noted that although they support enhancements to satellite tracking, they believe the current hail system must remain in place for a transition period.

The European Union presented a revised Working Paper 00/30 and proposed a 2-year transition period. The revision also proposed an implementation date of July 1, 2001 for VMS. It must be re-iterated that 100% satellite tracking is still required by January 1, 2001.

The representatives from Denmark (in respect of Faroe Islands and Greenland) and Japan stressed concern over the confidentiality of vessel reports. The representative from Canada noted several concerns including their desire to see polling increased every 4 hours instead of the European Union's proposed 6 hour polling intervals. Canada also noted concern that there was no provision in the proposal making it an apparent infringement for a master to interfere with the VMS.

The Chairman noted that there was agreement on this proposal in principle however, there was no conclusion by STACTIC. The issues of confidentiality and the use of regulatory or convention area were not resolved. The Chairman also noted that the Contracting Parties proposed an allocation of C$200,000 for the automatic hail and satellite tracking system.

12. Adoption of Report

The report was adopted by STACTIC with the following recommendations:

STACTIC recommends to the Fisheries Commission that:

1. A proposal to amend the NAFO Conservation and Enforcement Measures Regarding Part VII - Port Inspections (STACTIC W.P. 00/31-Revision 2) be adopted.

2. Formats for the Electronic Transmission of NAFO Hails from Contracting Parties to the NAFO Secretariat be adopted. (STACTIC W.P. 00/32)

13. Adjournment

STACTIC adjourned on 22 September 2000 at 1030 hrs.

Annex 1. Agenda

1. Opening by the Acting Chairman, J. Baird (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 Hail System

7. Observer Program and Satellite Tracking

   a) Scientific Requirements/Observer Manual
   b) Amendments to existing Programs

8. Discussion of Other Conservation and Enforcement Measures:

   a) examination of possible improvements in the procedures for gathering discards information;
   b) review of the fishing strategies to be employed to avoid excessive incidental catches;
   c) possible amendments to the Conservation and Enforcement Measures regarding juvenile fish;
   d) possible harmonization of port inspection reports.

9. Discussion of possible amendments to the Conservation and Enforcement Measures (request from the Fisheries Commission)

10. Time and Place of the Next Meeting

11. Other Matters

    a) Chartering Arrangements
    b) Increase of Inspection Presence in the NAFO Regulatory Area
    c) Integration of Vessel Monitoring System

12. Adoption of Report

13. Adjournment

Annex 2. Report of STACTIC *Ad Hoc* Working Group on Comparison of the NAFO Hail System with the NEAFC Communication System

1. Opening of the Meeting

The Chairman, Mr. M. T. Nedergaard (Denmark in respect of Faroe Islands and Greenland), opened the meeting on 18 September 2000. The following Contracting Parties were present: Canada, Denmark (in respect of Faroe Islands and Greenland), European Union, Iceland, Russia and United States.

2. Comparisons of NAFO Hails and NEAFC Scheme

The differences and similarities as found between the NAFO Hail Reports and the NEAFC Scheme are presented in Appendix 1. Amendments to the NEAFC and NAFO scheme are considered necessary in order to create the necessary compatibility between the two systems. Main discrepancies identified between NAFO and NEAFC message formats were as follows. When transposing the NEAFC message format with the NAFO hail system the following amendments should be addressed:

1. "FR" Contracting Party sending the message, to be added
2. "DI" NAFO Division, to be added
3. "MA" Name of Master to be added
4. "TS" Target species (was previously DS directed species)
5. Making sequence number optional
6. Vessel Name should be mandatory
7. External Registration number should be mandatory
8. Days fished should be added as optional
9. Transhipped To should be added as optional
10. Transhipped From should be added as optional

3. Hail-VMS Connectivity

Pursuant to the introduction of VMS system 1 Jan 2001 the group foresaw that the automatic hail system should take account of the VMS requirement because both elements are technically inter-connected. To this end it was noted that the cost of the hail system may have to be increased to take account of the VMS requirements.

4. Aspects relating to Inspection and Surveillance

Both the Hail and VMS systems aim at providing fishery patrol vessels with information regarding the location of fishing vessels operating in the area. NAFO and NEAFC handle this information in different ways.

Under the current NAFO hail system, the NAFO secretariat forward the hail messages to the Contracting Parties having notified inspection presence in the area, throughout the year, irrespective of whether the patrol vessel is active or not.

Under the NEAFC system, information on active fishing vessels is sent only to inspection vessels operating in the RA. Communication of the list of active vessels based on reception of the surveillance entry (SEN) and exit (SEX)messages which are sent by inspection craft (vessels, airplane...) when they enter or exit the RA. Lists of fishing vessels operating in the RA are elaborated by the Secretariat, based on position messages received from fishing vessels. These lists are sent daily only to the active patrol vessels i.e. having sent SEN message.

	NAFO	NEAFC
Information regarding inspection activity		
Start/end of surveillance	Notification of date and time to the Secretary. No format required. No message required for air surveillance	SEN and SEX message are sent to the Secretary. Messages include codified information on date, time, name, position, inspectors etc.
Information regarding activity of fishing vessels		
Nature of the information	Copy of the hail messages	List of active fishing vessels (i.e. having sent ENT message) and list of last POS report sent by those vessels.
Preparation of list of active vessels	Handled by the CP's inspection services, not handled by the secretariat	Handled by the Secretariat. Automated procedure has been set up.
Distribution	Sent to CP (inspection department) with a notified inspection presence.	Sent to the fishery patrol vessels which have notified their SEN message.
Frequency	Throughout the year	Daily
Security and confidentiality	Kept by inspection services (no specific confidentiality requirements)	Subject to confidentiality requirements, data to be destroyed after specified delay

It should be stressed that information on position of fishing vessels must be regarded as confidential under the NEAFC system and thus is subject to specific data security and confidentiality requirements. A VMS system presupposes the existence of such data security and confidentiality requirements.

Appendix 1

"ENTRY" report

NAFO (data element)	NEAFC (data element)	Code	Mandatory/ Optional NAFO	Mandatory/ Optional NEAFC	Remarks:
Start record	Start record	SR	M	M	System detail; indicates start of record
FROM		FR	M	M	Address of transmitting Party
Address	Address	AD	M	M	Message detail; destination "XNS" for NAFO
Sequence Number	Sequence Number	SQ	M	M	Message detail; serial number in current year
Type of Message	Type of Message	TM	M	M	Message detail; message type, "ENT" as Entry report
Radio call sign	Radio call sign	RC	M	M	Vessel registration detail; international radio call sign of the vessel
	Trip Number	TN	O	O	Activity detail; fishing trip serial number in current year
Vessel Name	Vessel Name	NA	M	O	Vessel registration detail; name of the vessel
	Contracting Party Internal Reference Number	IR	O	O	Vessel registration detail. Unique Contracting Party vessel number as ISO-3 flag state code followed by number
External Registration Number	External Registration Number	XR	M	O	Vessel registration detail; the side number of the vessel.
Latitude	Latitude	LA	M	M	Activity detail; position at time of transmission
Longitude	Longitude	LO	M	M	Activity detail; position at time of transmission

DIVISION		DI	M		Division into which the vessel is about to enter
Quantity on board	Quantity on board	HO (Code used by NEAFC - OB			Activity detail; quantity by species on board, in pairs as needed.
Species	Species		M	M	FAO species code
live weight	live weight		M	M	Live weight in kilograms, rounded to the nearest 100 kilograms
TARGET SPECIES		DS[1] Proposed TS	M		FAO species code
MASTERS NAME		MA	M		Name of the master
Date	Date	DA	M	M	Message detail; date of transmission
Time	Time	TI	M	M	Message detail; time of transmission
End of record	End of record	ER	M	M	System detail; indicates end of the record

[1] Under NEAFC Scheme DS means prohibited species

"EXIT" report

NAFO (Data Element)	**NEAFC (Data Element)**	**Code**	**Mandatory/ Optional NAFO**	**Mandatory/ Optional NEAFC**	**Remarks:**
Start record	Start record	SR	M	M	System detail; indicates start of record
FROM		FR	M	M	Address of transmitting Party
Address	Address	AD	M	M	Message detail; destination "XNS" for NAFO
Sequence Number	Sequence Number	SQ	M	M	Message detail; message serial number in current year
Type of Message	Type of Message	TM	M	M	Message detail; "EXI" as Exit report
Radio call sign	Radio call sign	RC	M	M	Vessel registration detail; international radio call sign of the vessel
	Trip Number	TN	O	O	Activity detail; fishing trip serial number in current year
Vessel Name	Vessel Name	NA	M	O	Vessel registration detail; name of the vessel
Contracting Party Internal Reference Number	Contracting Party Internal Reference Number	IR	O	O	Vessel registration detail. Unique Contracting Party vessel number as ISO-3 flag state code followed by number
External Registration Number	External Registration Number	XR	M	O	Vessel registration detail; the side number of the vessel
Latitude	Latitude	LA	M	M	Activity detail; position at time of transmission

Longitude	Longitude	LO	M	M	Activity detail; position at time of transmission
DIVISION		DI	M		Division from which the vessel is about to leave
CATCH	Weekly Catch	CA			Activity detail; Cumulative catch retained on board by species, since commencement of fishing in the R.A
Species	Species		M	M	FAO species code
live weight	live weight		M	M	Live weight in kilograms, rounded to the nearest 100 kilograms
	Days Fished	DF	*O*	M	Activity detail; number of fishing days in the Regulatory Area either since commencement of fishing or last "Catch" report
MASTERS NAME		MA	M		Name of the master
Date	Date	DA	M	M	Message detail; date of transmission
Time	Time	TI	M	M	Message detail; time of transmission
End of record	End of record	ER	M	M	System detail; indicates end of the record

"TRANSHIPMENT" report

NAFO (Data Element)	NEAFC (Data Element)	Code	Mandatory/ Optional NAFO	Mandatory/ Optional NEAFC	Remarks
Start record	Start record	SR	M	M	System detail; indicates start of record
FROM		FR	M	M	Address of transmitting Party
Address	Address	AD	M	M	Message detail; destination "XNS" for NAFO
Sequence Number	Sequence Number	SQ	M	M	Message detail; message serial number in current year
Type of Message	Type of Message	TM	M	M	Message detail; message type, "TRA" as Transshipment report
Radio call sign	Radio call sign	RC	M	M	Vessel registration detail; international radio call sign of the vessel
	Trip Number	TN	O	O	Activity detail; fishing *trip serial number in* current year
Vessel Name	Vessel Name	NA	M	O	Vessel registration detail; name of the vessel
	Contracting Party Internal Reference Number	IR	O	O	Vessel registration detail. Unique Contracting Party vessel number as ISO-3 flag *state code followed by* number
External Registration Number	External Registration Number	XR	*M*	O	Vessel registration detail; the side number of the vessel
Latitude	Latitude	LA	M	M	Activity detail; position at time of transshipment
Longitude	*Longitude*	LO	M	M	Activity detail; position at time of transshipment
Quantity on-loaded or off-loaded	Quantity on-loaded or off-loaded	KG			Quantity by species on-loaded or off-loaded in the R.A., in pairs as needed.
Species	Species		M	M	FAO species code

live weight	live weight		M	M	Live weight in kilograms, rounded to the nearest 100 kilograms
	Transshipped To	TT	*O*	M[1]	Vessel registration detail; International radio call sign of the receiving vessel
	Transshipped From	TF	*O*	M[1]	Vessel registration detail; International radio call sign of the donor vessel
MASTERS NAME		*MA*	*M*		Name of the master
Date	Date	DA	M	M	Message detail; date of transmission
Time	Time	TI	M	M	Message detail; time of transmission
End of record	End of record	ER	M	M	System detail; indicates end of the record

[1] Whichever is appropriate.

"POSITION" "MOVE" "TRANSZONAL" report

NAFO (Data Element)	NEAFC (Data Element)	Code	Mandatory/ Optional NAFO	Mandatory/ Optional NEAFC	Remarks:
Start record	Start record	SR	M	M	System detail; indicates start of record
FROM		FR	M	M	Address of transmitting Party
Address	Address	AD	M	M	Message detail; destination "XNS" for NAFO
Sequence Number	Sequence Number	SQ	M	M	Message detail; message serial number in current year
Type of Message	Type of Message	TM	M	M	Message detail; message type, "POS" as Position report/message, "MOV' (as prescribed in Part II-Annex I, Para 1.2 Hail System message format), "ZON" (as prescribed in Part II-Annex I, Para 1.3 Hail System message format), to be communicated by VMS, or other means by vessels with a defective satellite tracking device
Radio call sign	Radio call sign	RC	M	M	Vessel registration detail; international radio call sign of the vessel
	Trip Number	TN	O	O	Activity detail; fishing trip serial number in current year
Vessel Name	Vessel Name	NA	M	O	Vessel registration detail; name of the vessel
	Contracting Party Internal Reference Number	IR	O	O	Vessel registration detail. Unique Contracting Party vessel number as ISO-3 flag state

					code followed by number
External Registration Number	External Registration Number	XR	M	O	Vessel registration detail; the side number of the vessel
Latitude	Latitude	LA	M	M	Activity detail; position at time of transmission
Longitude	Longitude	LO	M	M	Activity detail; position at time of transmission
DIVISION		DI	M		Division into which the vessel is about to enter
MASTERS NAME		MA	M		Name of the master
TARGET SPECIES		DS[1] Proposed TS	M		FAO species code
Date	Date	DA	M	M	Message detail; date of transmission
Time	Time	TI	M	M	Message detail; time of transmission
End of record	End of record	ER	M	M	System detail; indicates end of the record

[1] Under NEAFC Scheme DS means prohibited species

DATA EXCHANGE FORMAT AND PROTOCOLS

A. Data transmission format

Each data transmission is structured as follows:

- double slash ("//") and the characters "SR" indicate the start of a message;
- a double slash ("//") and field code indicate the start of a data element;
- a single slash ("/") separates the field code and the data;
- pairs of data are separated by space;
- the characters "ER" and a double slash ("//")indicate the end of a record.

B. Data exchange protocols NEAFC

Authorised data exchange protocols for electronic transmission of reports and messages between Contracting Parties and the Secretariat is X25 or X400

C. Data exchange protocols NAFO

Data exchange protocols for electronic transmission of reports and messages between Contracting Parties and the Secretariat is focusing on the relative desirability of X-25 based system or of internet SMTP.

D. Format for electronic exchange of fisheries monitoring, inspection and surveillance information (The North Atlantic Format)

Category	Data Element	Field code	Type	Contents	Definitions
System Details	Start Record	SR			Indicates start of the record
	End Record	ER			Indicates end of the record
	Return Status	RS	Char*3	Codes	ACK / NAC = Acknowledged / Not Acknowledged
	Return Error Number	RE	Num*3	001 – 999	Codes indicating errors as received at operation center
Message Details	Address destination	AD	Char*3	ISO-3166 Address	Address of the party receiving the message, "XNE" for NEAFC, "XNS" for NAFO
	From	FR	Char*3	ISO-3166 Address	Address of the transmitting party
	Type of Message	TM	Char*3	Code	First three letters of the message type
	Sequence Number	SQ	Num*6	NNNNNN	Message serial number
	Record Number	RN	Num*6	NNNNNN	Serial number of the record in the relevant year
	Record Date	RD	Num*8	YYYYMMDD	Year, month and date
	Record Time	RT	Num*4	HHMM	Hours and minutes in UTC
	Date	DA	Num*8	YYYYMMDD	Year, month and date
	Time	TI	Num*4	HHMM	Hours and minutes in UTC

Category	Data Element	Field code	Type	Contents	Definitions
Vessel Registration Details	Radio Call Sign	RC	Char*7	IRCS Code	International Radio Call Sign of the vessel
	Vessel name	NA	Char*30	ISO 8859.1	Name of the vessel
	Ext. registration	XR	Char*14	ISO 8859.1	Side Number of the vessel
	Flag State	FS	Char*3	ISO-3166	State of registration
	Contracting Party internal reference number	IR	Char*3 Num*9	ISO-3166 +max. 9N	Unique vessel number attributed by the flag State pursuant to registration
	Port Name	PO	Char*20	ISO 8859.1	Port of registration of the vessel/homeport
	Vessel Owner	VO	Char*60	ISO 8859.1	Name and address of the vessel owner
	Vessel Charterer	VC	Char*60	ISO 8859.1	Name and address of the vessel charterer
Vessel Characteris-tics Details	Vessel capacity unit	VT	Char*2 Num*4	"OC"/"LC" Tonnage	According to: "OC" OSLO 1947 convention /"LC" LONDON ICTM-69 Capacity of the vessel in metric tons
	Vessel Power unit	VP	Char*2 Num*5	ISO 8859.1 0-99999	Indication of which measurement unit applies "HP" or "KW" Total main engine power
	Vessel Length	VL	Char*2 Num*3	"OA"/"PP" Length in meters	unit "OA" length overall, "PP" length between perpendiculars Total length of the vessel in meters, rounded to the nearest whole meter
	Vessel Type	TP	Char*3	Code	As listed in Annex XII.C
	Fishing Gear	GE	Char*3	FAO Code	International Standard Statistical Classification of the Fishing Gear as (Annex XII.A)

Category	Data Element	Field code	Type	Contents	Definitions
Licence Details	Date of issuing	IS	Num*8	YYYYMMDD	Date of Authorisation to fish for one or more regulated species
	Regulated Resources	RR	Char*3	FAO Species Code	FAO Species Code for the regulated resource
	Start Date	SD	Num*8	YYYYMMDD	Date on which the validity of the authorisation/suspension commences
	End Date	ED	Num*8	YYYYMMDD	Expiry date of the validity of the authorisation to fish for the regulated resource
	Limited Authorisation	LU	Char*1	ISO 8859.1	"Y" or "N" to indicate whether a limited authorisation is valid or not
	Relevant Area	RA	Char*6	ICES Code	Area(s) prohibited
	Directed Species	DS	Char*3	FAO Species Code	Prohibited species
Activity Details	Latitude	LA	Char*5	S/NDDMM (WGS-84)	e.g. //LA/N6235 = 62°35' North
	Longitude	LO	Char*6	E/WDDDMM (WGS-84)	e.g. //LO/W02134 = 21°34' West
	Trip Number	TN	Num*3	001-999	Number of the fishing trip in current year
	Days Fished	DF	Num*3	1 – 365	Number of days the vessel spent in the Regulatory Area during the trip
	Weekly catch	CA			the cumulative catch retained on board by species, in kilograms live weight rounded to the nearest 100 kg since the vessel entered the R.A. or, in the event a previous has been transmitted during the same trip, since the last "Catch" report, in pairs as needed.
	Species		Char*3	FAO species code	
	Quantity		Num*7	0-9999999	
	Quantity onboard	OB			Quantity onboard the vessel by species in kilograms live weight rounded to the nearest 100 kg, in pairs as needed
	Species		Char*3	FAO Codes	
	Quantity		Num*7	0-9999999	

Category	Data Element	Field code	Type	Contents	Definitions
	Transferred species	KG			Information concerning the quantities transferred between vessels by species in kilograms live weight rounded to the nearest 100 kg. whilst operating in the R.A.
	Species		Char*3	FAO Codes in pairs	
	Quantity		Num*7	0-9999999	
	Transhipped From	TF	Char*7	IRCS Code	International Radio Call Sign of the donor vessel
	Transhipped To	TT	Char*7	IRCS Code	International Radio Call Sign of the receiving vessel
Reporting Details	Catch	CA			Aggregate catch, landed or transhipped, taken by fishing vessels of the Contracting Party, by species as listed in tonnes live weight, rounded to tonnes, in pairs as needed
	Species		Char*3	FAO species code	
	Quantity		Num*7	0-9999999	
	Cumulative catch	CC			Cumulative aggregate catch, landed or transhipped, taken by fishing vessels of the Contracting Party, by species as listed in tonnes live weight, rounded to tonnes, in pairs as needed
	Species		Char*3	FAO species code	
	Quantity		Num*7	0-9999999	
	Relevant Area	RA	Char*6	ICES/NAFO Codes	Code for the relevant fishing area
	Zone	ZO	Char*3	ISO-3166	The code for a Contracting Party's zone
	Year and month	YM	Num*6	YYYYMM	The relevant year and month of reporting

Category	Data Element	Field code	Type	Contents	Definitions
Surveillance/ Observer Details	Latitude	LA	Char*5	S/NDDMM (WGS-84)	e.g. //LA/N6235 = 62°35' North
	Longitude	LO	Char*6	E/WDDDMM (WGS-84)	e.g. //LO/W02134 = 21°34' West
	Speed	SP	Num*3	Knots * 10	e.g. //SP/105 = 10,5 knots
	Course	CO	Num*3	360° degree scale	e.g. //CO/270 = 270°
	Activity	AC	Char*3	Activity code	First 3 characters of the activity (see Annex XII.C.2)
	Means of Surveillance	MI	Char*3	NEAFC Code	"VES" = surface vessel, "AIR" = fixed wing aircraft, "HEL" helicopter
	Assigned Inspector CP ID	AI	Char*7	NEAFC Code	ISO-3160 code for the Contracting Party followed by 4 digit number repeated as needed
	Observation Serial. No.	OS	Num*3	0 - 999	Serial number of the observation during relevant patrol in the Regulatory Area
	Date of sighting	DA	Num*8	YYYYMMDD	Date when the vessel is sighted
	Time of sighting	TI	Num*4	HHMM	Time in UTC when the vessel is sighted
	Object Identification	OI	Char*7	IRCS Code	International Radio Call Sign of the sighted vessel
	Photograph	PH	Char*1	ISO 8859.1	Was there a photograph taken, "Y" or "N"
	Free Text string	MS	Char*255	ISO 8859.1	Free text area

E. Additional Codes to be included in "The North Atlantic Format"

Data Element	Field code	Type	Contents	Definitions
Directed Species	TS	Char*3	FAO Codes	Directed species (target species)
Masters Name	MA	Char*30		Name of master of fishing vessel
Type of Message	TM	Char*3		Indication of message code: MOV, ZON
DIVISION	DI	Char*2		Division into which the vessel is about to enter
FROM	FR	Char*3	ISO – 3	The code for a Contracting Party

F. Structure of reports and messages required by NEAFC

Where appropriate, each Contracting Party retransmits to the NEAFC Secretariat data received from its vessels, in accordance with Articles 4, 6 and 10; subject to the following amendments:

- the address (AD) shall be replaced by the address of the Secretariat (XNE)
- the data elements "record date" (RD), "record time" (RT), "record number" (RN) and "from" (FR) shall be inserted

Return messages

Return message format as defined by NEAFC is:

Data Element	Field Code	Mandatory / Optional	Remarks
Start Record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination Contracting Party sending the report
From	FR	M	Message detail; "**XNE**" for NEAFC
Type of message	TM	M	Message detail; message type "**RET**" for return message
Return Status	RS	M	Reporting detail; code showing whether the message is acknowledged or not (ACK or NAK)
Return error number	RE	O	Reporting detail; number showing the type of error: message unreadable (101), inconsistent data (102), sequence error (103)
Record number	RN	M	Reporting detail; record number of the message which is received
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

Annex 3. Proposal to amend the NAFO Conservation and Enforcement Measures Regarding Incidental Catch Limits

(STACTIC Working Paper 00/23 - Rev. 3)

Proposal:

Amend the NAFO Conservation and Enforcement Measures to add the following paragraph (f) to Part I A 5 Incidental Catch Limits

(f) To avoid excessive incidental catch the following fishing strategy shall be implemented;

(i) If the amount of incidental catch of any one species listed in Schedule I for which no quota has been allocated in that division to that Contracting Party, in any one haul exceeds 10% of the total catch of the other species in that haul, the vessel shall immediately change fishing area to reduce the incidental catch. The vessel must move a minimum 5 nautical miles from any position of the previous haul.

(ii) In cases where a ban on fishing is in force for any particular species or an "Others" quota for any species has been fully utilized, and the amount of incidental catch of this species in any one haul exceeds 5% of the total catch of other species in that haul, the vessel shall immediately change fishing area to reduce the incidental catch. The vessel must move a minimum 5 nautical miles from any position of the previous haul.

(iii) If any future haul exceeds the permitted incidental catch limit outlined in (i) or (ii) above, whichever is applicable, the vessel shall again immediately change fishing area to reduce the incidental catch. The vessel must 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.

Annex 4. Proposal to Amend the NAFO Conservation and Enforcement Measures regarding Part VII - Port Inspections

(STACTIC W.P. 00/31 - Rev. 2)

Background

Part VII of the NAFO Conservation and Enforcement Measures requires Contracting Parties to ensure that port inspection take place on any occasion a fishing vessel having been fishing subject to NAFO Conservation and Enforcement Measures is discharging catch. According to the current measures, the results from port inspection shall be provided to the NAFO secretariat and shall be communicated to any other Contracting Party on request.

The content of port inspection should include verification of catches, of logbook records, mesh size and of inspection at sea. Sea inspection reports are sent to the Contracting Party without delay.

Communication of port inspection is sometimes delayed when vessels land in ports outside the Flag Contracting Party. In order to contribute to enhanced transparency and a better efficiency of the implementation of the NAFO Conservation and Enforcement Measures, it is proposed that the results of port inspection are communicated to the Flag Contracting Party without delay.

Furthermore, a standard report form would help to harmonise record of results of port inspection.

Proposal

1. Amend Part VII-1 of NAFO Conservation and Enforcement Measures to read :

Part VII-1

"(v) Results of port inspection shall include at least the information listed in Part VII – Schedule I -B.

(vi) The 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 from the date on which the inspection has been completed.

(vii) The copy of the results of the port inspection shall be transmitted to the NAFO Executive Secretary within 30 days as from the date on which the landing has been completed and shall be provided to other Contracting Party on request."

(viii) Where possible, Contracting Parties should transmit the results of the port inspection as required in (v) to (vii) in the format defined in Part VII-Schedule I-Part A.

2. Insert Part VII-Schedule I : "port inspection report" (see annex)

Part VII-Schedule I

B. Information to be inserted in the report

1. INSPECTION REFERENCES

Data Element	M /O	Category ; Definition
Inspection authority	M	Inspection detail : Name of the inspection authority or of the alternate body nominated by the authority
Date	M	Inspection detail : Date the report is compiled
Port of inspection	M	Vessel activity detail : Place where the vessel is inspected : port followed by ISO –3 code of the country as "St Johns / CAN"
Vessel Name	*M*	*Vessel registration detail; name of the vessel*

2. TRIP INFORMATION

Data Element	M /O	Category ; Definition
Date trip started	M	Vessel activity details : date started the current fishing trip
Vessel trip number	*O*	Vessel activity details : Number of the fishing trip in current year
Date Entry in the RA	M	Vessel activity details : Date the vessel entered the NRA for the current fishing trip
Date Exit from the RA	M	Vessel activity details : Date the vessel exited from the NRA for the current fishing trip
Other areas visited	O	Vessel activity detail : other area where vessel have been fishing during the current trip
Date trip Ended	M	Vessel activity details : date ended the current fishing trip

3. VESSEL IDENTIFICATION

Data Element	M /O	Category ; Definition
External Identification Number	M	Vessel registration details : Side Number of the vessel
International Radio Call Sign	M	Vessel registration details : International Radio Call Sign of the vessel
Flag State	M	Vessel registration detail; State where the vessel is registered, 3-ISO country code

Data Element	M /O	Category ; Definition
NAFO Contracting Party	O (1)	Vessel registration detail :NAFO contracting party of the vessel, as ISO code of the country, EUR for European Community, NCP for Non Contracting Party
Home port	O	Vessel registration details : Port of registration of the vessel or homeport
Vessel owner	M	Vessel registration details : name and address of the vessel owner
Vessel operator	M (2)	Vessel registration details : responsible for using the vessel
Master name	O	Vessel activity details : name of the master

(1) if different from the flag state
(2) if different from the vessel owner

4. RESULT OF INSPECTION ON DISCHARGE

4.1 General information

Data Element	M /O	Category ; Definition
Start date of discharge	M	Discharge detail : date the vessel started discharge
End date of discharge	M	Discharge detail : date the vessel finished discharge
Has vessel landed all catches on board ?	M	Discharge detail : Has vessel landed all catches on board ?, answer Y if yes, N if not
Comments	O	Discharge detail : comments as necessary. If discharge as not been completed, please give an estimation on catch still on board

4.2 Quantity discharged

Data Element	M /O	Category ; Definition
Species	M	Discharge detail : FAO 3-alpha code (part V, schedule II, attachment II)
Presentation	M	Discharge detail : Product form
Live Weight	M	Quantities determined from the logbook.
Conversion factor	O	Product detail : Conversion factor as define by the master for the corresponding species, size and presentation, optional if already mention in table B

Process weight	M	Discharge detail : Quantities landed by species and presentation, in kilograms of product, rounded to the nearest 10 kg
Equivalent live weight	M	Discharge detail : Quantities landed in equivalent live weight, as "product weight x conversion factor", in kilograms, rounded to the nearest 10 kg
Comments	O	Discharge Details : free text area

4.3 Quantities staying on board the vessel

Data Element	M /O	Category ; Definition
Species	M	Discharge detail : FAO 3-alpha code (part V, schedule II, attachment II)
Presentation	M	Discharge detail : Product form
Conversion factor	O	Product detail : Conversion factor as define by the master for the corresponding species, size and presentation, optional if already mention in table B
Process weight	M	Discharge detail : Quantities landed by species and presentation, in kilograms of product, rounded to the nearest 10 kg
Equivalent live weight	M	Discharge detail : Quantities landed in equivalent live weight, as "product weight x conversion factor", in kilograms, rounded to the nearest 10 kg
Comments	O	Discharge Details : free text area

5. RESULT OF GEAR INSPECTION[1]

5.1 General information

Data Element	M /O	Category ; Definition
Date of inspection	M	Inspection detail : Date of current gear inspection
Inspected gear	M	Inspection detail : number of gear checked during port inspection

[1] Verification shall be done when non-compliance have been cited / observed during inspection at sea.
To be filled in when port inspection also concerns inspection of gears on board. A detail form shall be filled in for every gear having been subject to port inspection

5.2 Otter trawl details

Data Element	M /O	Category ; Definition
NAFO seal number	M	Inspection detail (if required) : Number of the NAFO seal attached to the gear after inspection at sea
Is Seal Undamaged ?	M	Whether NAFO inspection seal is intact. – "yes" or "no"
Gear type	M	International Standard Statistical Classification of the Fishing Gear , OTB for otter trawl
Attachments		Otter trawl detail : attachment to footrope
Grade bar spacing	M	Otter trawl detail : grade bar spacing in millimetres
Mesh type	M	Otter trawl detail : respectively mesh type: SQ for square mesh , DI for diamant mesh
Mesh size average	M	Otter trawl detail : average mesh size in the trawl part, by pair
Trawl part	M	Trawl part measured
Mesh size	M	Mesh size in millimetres

A. "Port inspection report" form

"Port inspection report"

Page n° | | ***Of*** | |

1. INSPECTION REFERENCE

Inspection authority	
Date of the report	
Port of inspection	
Vessel name	

2. TRIP INFORMATION[2]

Date trip started	
Trip number[3]	
Activity in the NAFO RA :	
Date Entry in the RA	
Date Exit from the RA	
Other areas visited	
Date trip ended	

[2] To be filled in by the inspection authority or any alternate body nominated by the authorities as soon as the vessel land to port, based on logbook records.

[3] Where applicable

3. VESSEL IDENTIFICATION[4]

External Identification	
International Radio Call Sign	
Flag State	
NAFO Contracting Party	
Home port	
Vessel owner	
Vessel operator	
Master name	

4. RESULT OF INSPECTION OF DISCHARGE[5]

4.1 General information

Starting of discharge :	Date		Time	
Ending of discharge :	Date		Time	
Has vessel discharged all catches on board ?	YES		*If YES, fill in table 4.2*	
	NO		*IF NO, fill table 4.3*	
Comments				

4.2 Quantity discharged

Species (FAO Code)	Presentation	Live Weight (Log Book, Kg)	Conversion factor	Landing Processed Wt (kg)	Equivalent live weight (kg)	Diff (Kg)	Diff (%)

[4] To be filled in based on the license information.

[5] To be filled in after completion of discharge

Species (FAO Code)	Presentation	Live Weight (Log Book, Kg)	Conversion factor	Landing Processed Wt (kg)	Equivalent live weight (kg)	Diff (Kg)	Diff (%)

Comments	

4.3 Quantity staying on board the vessel

To be filled where part of the catches stay on board after completion of discharge

Species	Presentation	Conversion factor	Process weight (kg)	Equivalent live weight (kg)

Comments	

5. GEAR INSPECTION IN PORT [6]

5.1 General data

Number of gear inspected	
Date gear inspection	
Has the vessel been cited ? If Yes, complete the full "verification of inspection in port" form. If No, complete the form with the exception of the NAFO Seal Details.	☐ Yes ☐ No

5.2 Otter Trawl details

NAFO Seal number				
Is seal undamaged ?	Yes		No	
Gear Type:				
Attachments:				
Grate Bar Spacing (mm)				
Mesh Type:				

[6] Verification shall be done when non-compliance have been cited / observed during inspection at sea.
To be filled in when port inspection also concerns inspection of gears on board. A detail form shall be filled in for every gear having been subject to port inspection.

Average mesh sizes (mm)

TRAWL PART	
Wings:	
Body:	
Lengthening. Piece:	
Codend:	

Annex 5. Paper on Chartering
(STACTIC W.P. 00/33-Revised)

Proposal to Modify Part I.B. and I.G. of NAFO Conservation and Enforcement Measures
(amendments underlined)

Amend Part I.B. as follows:

B. Chartering Arrangements

1. Replace the wording by:

   "Each Contracting Party may utilize partly or wholly quota and shrimp fishing days allocated to that Party under Schedule I and Part I.G by way of charter arrangement with a fishing vessel flying the flag of another Contracting Party notified in accordance with Part III.D, subject to:

   - the consent of the flag Contracting Party;
   - a favourable proposal adopted through a mail vote in accordance with Article XI.2 of the Convention.

2. Contracting Parties shall limit such charter arrangements to one fishing vessel per year and for a limited duration not exceeding 6 months.

3. 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 NAFO Executive Secretary:

   - the name and registration of the chartered vessel and the relevant flag Contracting Party
   - a copy of the charter
   - the fishing possibilities concerned
   - the date as from which the vessel is authorized to commence fishing on these fishing possibilities
   - the duration of the charter

4. The relevant flag Contracting Party shall notify in writing its consent to the NAFO Executive Secretary.

5. The NAFO Executive Secretary shall circulate the above information and the consent of the flag Contracting Party without delay to Contracting Parties.

6. The relevant flag Contracting Party is responsible for ensuring that the vessel complies with the requirements of the NAFO Conservation and Enforcement Measures. This does not nullify the obligations of the Contracting Party to which the quota and shrimp fishing days have been allocated under Part I of the Conservation and Enforcement Measures, as appropriate.

7. As a pilot project, these provisions shall apply only to the year 2001.

Amend Part I.G. as follows:

- Insert a new point I.G.4.j) which would read:

"j) Fishing days of a Contracting Party may only be utilized by a vessel flying the flag of another Contracting Party under the conditions provided in I.B (chartering arrangements)."

- Renumber point I.G.4.j) as point I.G.4.k) which would read:

k) "Fishing days are not transferable between Contracting Parties" (deletion of the last part of the sentence)

Annex 6. Proposal to Amend the NAFO Conservation and Enforcement Measures with a view to introducing new rules concerning obligatory inspection presence in the Regulatory Area

(STACTIC W.P. 00/29-Revised)

Background

Presence of inspection vessels in the Regulatory Area is of paramount importance for the effectiveness of the operation of the Scheme of Joint International Inspection and Surveillance. It appears, however, that the relevant rules in their present version do not make it an obligation for Contracting Parties to provide for adequate inspection presence. Under these circumstances, new such rules should be introduced in order to both make the existing rules more effective and share out the burdens connected with this means of inspection in a more equitable fashion and commensurate with the fishing activities of the different Contracting Parties.

Proposal

Amend Part IV, Section 3, as follows :

Sub-paragraph 2 shall read as follows:

"*Where at any one time, more than 10 vessels of any one Contracting Party are engaged in fishing operations or in the processing or transferring of fish in the Regulatory Area, that Contracting Party shall, during that time:*

(a) have an inspection vessel in the Regulatory Area, or shall co-operate with another Contracting Party to jointly operate an inspection vessel; and

(b) have an inspector or other designated authority present in the Regulatory Area, or other designated authority present in a country of a Contracting party adjacent to the Convention Area, to receive and respond, without delay, to notice of apparent infringements."