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Northwest Atlantic Fisheries Organization



Report of the Fisheries Commission and its Subsidiary Body (STACTIC)

32nd Annual Meeting, 20 - 24 September 2010 Halifax, Nova Scotia, Canada

> NAFO Dartmouth, N.S., Canada 2010

Report of the Fisheries Commission and its Subsidiary Body (STACTIC) 32nd Annual Meeting, 20-24 September 2010 Halifax, Nova Scotia, Canada

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Report of the Fisheries Commission 32nd Annual Meeting, 20 - 24 September 2010 Halifax, Nova Scotia, Canada

I. Opening Procedure (Agenda items 1-6)

1. Opening by the Chair, Kate Sanderson (Denmark in respect of the Faroe Islands and Greenland)

The meeting was opened by the Chair, Kate Sanderson (Denmark in respect of the Faroe Islands and Greenland), at 1400 hrs on Monday, September 20, 2010. Representatives from the following Contracting Parties were in attendance: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), the European Union (EU), France (in respect of St. Pierre et Miquelon), Iceland, Japan, Republic of Korea, Norway, Russian Federation, Ukraine, and the United States of America (USA) (Annex 1).

With regards to attendance by observers, FAO was present, CCAMLR was represented by the EU, NEAFC was represented by Denmark (in respect of the Faroe Islands and Greenland), and NAMMCO was represented by Iceland.

The presence of the following NGOs which had been granted observer status was also acknowledged: the Ecology Action Centre (EAC), the International Coalition of Fisheries Association (ICFA), the Sierra Club of Canada (SCC) and World Wildlife Fund (WWF).

2. Appointment of Rapporteur

Ricardo Federizon, Fisheries Commission Coordinator (NAFO Secretariat), was appointed. The summary of decisions and actions taken by the Fisheries Commission is presented in Annex 2.

3. Adoption of Agenda

Sub-items 10.11 "American plaice in Divisions 3LNO", 10.12 "Northern shortfin squid in Subareas 3 + 4" and 15.2 "Conservation and Management of Sharks" were inserted (Annex 3).

4. Election of Vice-Chair

Sylvie Lapointe (Canada) was elected Vice-Chair.

5. Review of Commission Membership

The review of the Commission membership was conducted at the General Council session. It was noted that the membership of the Fisheries Commission is currently twelve (12). All Contracting Parties have voting rights in 2010.

6. Guidance to STACTIC necessary for them to complete their work

The Chair of the Standing Committee on International Control (STACTIC), Mads Trolle Nedergaard (Denmark, in respect of the Faroe Islands and Greenland) presented the results of STACTIC May 2010 intersessional meeting (FC Doc 10/6). He reported on the progress of the NAFO Conservation and Enforcement Measures Editorial Review Drafting Group, brought forward for clarification the issue of whether it should be permitted to charter fishing possibilities from shared quotas, and outlined the pending proposals which would be further discussed in this meeting.

In response to a request made by the United States, STACTIC was instructed to look into the compliance of the Contracting Parties with Article 17 of the NAFO Conservation and Enforcement Measures (NCEM) concerning the management and conservation of sharks. It was noted that it has been five years now since these management measures came into force.

The recommendations from the intersessional meeting would be forwarded to the Fisheries Commission together with the recommendations from this Annual Meeting (see item 15).

II. Scientific Advice (*Agenda items* 7 -8)

7. Presentation of scientific advice by the Chair of the Scientific Council

7.1 Scientific advice on fish stocks

The Scientific Council (SC) Chair, Ricardo Alpoim (EU), presented a summary of scientific advice to the Fisheries Commission. He urged the Fisheries Commission to consult the relevant SCS documents for the detailed comments of the SC when considering management and conservation measures of the fish stocks. Details of the scientific advice for fish stocks are contained in SCS Doc 10/18 from the June 2010 Scientific Council meeting.

Updated advice for 2011 on shrimp, as well as responses to some other outstanding requests were finalized by the SC after the commencement of the Fisheries Commission meeting and made available to the meeting as addenda to FC Working Paper 10/1.

The following stocks were fully assessed. Below is the summary of the scientific advice and recommendations for 2011:

- Shrimp in Division 3M. The 2009-2010 survey biomass index indicates the stock is around the Blim proxy and remains in a state of impaired recruitment. To favour future recruitment, Scientific Council reiterates its October 2009 recommendation for 2011 that the fishing mortality be set as close to zero as possible.
- Shrimp in Divisions 3LNO. Based on the average fishable biomass, the following table shows exploitation rates at various catch levels in 2011, including the last three catch options requested by Fisheries Commission:

Catch options (t)	12,000	17,000	24,000	27,000	30,000
Exploitation rates	10%	14%	20%	22.5%	25%

At TACs of 24,000 t and above, the exploitation rate is estimated to be 20% or higher, which is well beyond the range of previous exploitation rates in this fishery. Given recent declines in stock biomass, catches at levels of 24 000 t and above are likely to result in further declines. Exploitation rates over the period 2006 – 2008 have been near 14% and were followed by stock decline. Scientific Council considers TAC options at 14% exploitation rate or higher to be associated with a relatively high risk of continued stock decline. TACs lower than that will tend to reduce this risk in proportion to the reduction in the exploitation rate. Scientific Council is not able to quantify the absolute magnitude of the risk associated with alternative TAC options.

- o **Greenland halibut in Subarea 2** + **Divisions 3KLMNO**. SC noted that all year-classes which will recruit to the exploitable biomass in the short-term are weak. Projections at the F0.1 level indicate about 10% growth in exploitable biomass over 2010-2014. Therefore, SC recommends that fishing mortality in 2011 be no higher than the F0.1 level (median catch of 14 600 t in 2011).
- o American plaice in Divisions 3LNO. At F = 0 spawning stock biomass is estimated to increase and there is a 50% probability that SSB will surpass Blim by 2012. Under Fcurrent and F0.1 the population is estimated to grow more slowly and there is a less than 50% probability that SSB will reach Blim by 2015. There should be no directed fishing on American plaice in Divs. 3LNO in 2011. Bycatches of American plaice should be kept to the lowest possible level and restricted to unavoidable bycatch in fisheries directing for other species.
- o **Cod in Division 3M**. Considering the relatively low number of mature individuals currently in the stock, SC advises that a TAC lower than 10 000 t (approximate catch at F0.1), appears not to be damaging the SSB that is currently well above Blim.

The following stocks were fully assessed including elaboration of scientific advice for 2011 and 2012:

- o **Redfish in Divisions 3LN**. SC recommends that an appropriate TAC for 2011-2012 could be around 1/6 of Fmsy corresponding to a catch level of 6 000 t.
- Thorny skate in Divisions 3LNO. To promote recovery of thorny skate, SC recommends that catches in 2011 and 2012 should not exceed 5 000 t (the average catch during the past three years) in NAFO Divs. 3LNO.

The following stocks were fully assessed including elaboration of scientific advice for 2011, 2012, and 2013:

- Cod in Divisions 3NO. There should be no directed fishing for cod in Div. 3N and Div. 3O in 2011-2013. Bycatches of cod should be kept to the lowest possible level and restricted to unavoidable bycatch in fisheries directed for other species.
- Redfish in Division 3O. The SC noted there is insufficient information on which to base predictions
 of annual yield potential for this resource. SC is unable to advise on an appropriate TAC for 2011,
 2012, and 2013.
- Witch flounder in Divisions 2J + 3KL. No directed fishing on witch flounder is recommended in the years 2011 to 2013 in Divs. 2J, 3K and 3L to allow for stock rebuilding. Bycatches of witch flounder in fisheries targeting other species should be kept at the lowest possible level.
- o **Northern shortfin squid in Subareas 3+4**. SC advises that the TAC for 2011 to 2013 be set between 19 000 and 34 000 t.

On the following stocks, multi-year scientific advice was provided. The Scientific Council reviewed the status of these stocks at the June 2010 meeting, and found no significant basis to alter the advice. Accordingly, the Scientific Council reiterates the previous advice as follows:

- o American plaice in Division 3M. SC recommended that there should be no directed fishery on this stock in 2009, 2010 and 2011. Bycatch should be kept at the lowest possible level.
- **Yellowtail flounder in Divisions 3LNO**. SC recommended any TAC option up to 85% Fmsy for 2010 and 2011. SC noted that the yellowtail flounder fishery takes cod and American plaice as bycatch. Hence, in establishing the TAC for yellowtail flounder, the impacts on Divs. 3NO cod and Divs. 3LNO American plaice of any increase in yellowtail flounder TAC should be considered.
- o **Witch flounder in Divisions 3NO**. No directed fishing on this stock in 2009, 2010 and 2011 to allow for stock rebuilding. Bycatches in fisheries targeting other species should be kept at the lowest possible level.
- White hake in Divisions 3NO. Catches in Divs. 3NO for 2010 and 2011 should not exceed the 2006-2008 average annual catch level of 850 t. Catches in Subdivision 3Ps for 2010 and 2011 should not exceed the 2006-2008 average annual catch level of 1 050 t.
- o Capelin in Divisions 3NO. SC recommended no directed fishery in 2010-2011.

The SC Chair also presented advice on *Sebastes mentella* (oceanic redfish) which was formulated by SC of its own accord: In June 2010, SC reviewed the ICES 2010 Advice to NEAFC for 2011 and supported the conclusion and advice. The SC recognizes that the catches in the NAFO area will be taken from the shallow pelagic stock, for which ICES advises no directed fishery.

On the following topics, the SC Chair referred to the specific sections of the SCS Doc 10/18 regarding the SC response to the Special Request for Management Advice:

- o The Precautionary Approach (Page 33 of SCS Doc 10/18)
- o Evaluation of Rebuilding and Recovery Plans (Pages 33-34 of SCS Doc 10/18)
- o Measures to Reduce Bycatch (Page 34 of SCS Doc 10/18)

On the topic of **Mesh Size in 3M Redfish Fishery**, the SC concluded that the reduction of mesh size from 130 mm to not less than 90 mm for the pelagic redfish fishery appears not to be harmful to the Division 3M redfish stock.

7. 2 Vulnerable Marine Ecosystems (VMEs) and other ecosystem considerations

- o **On fishing plans and initial assessments for evaluating Significant Adverse Impacts (SAIs) on VMEs**. The SC Chair referred to the specific sections of the SCS Doc 10/18 regarding the SC response to the Special Request for Management Advice (pages. 34 36 of the SCS Doc 10/18).
- o **On closed seamounts**. SC concludes that the available information supports the designation of some seamounts referred to in Article 15 of the NCEM as VMEs (pages 34-38 of SCS Doc 10/18).

7.3 Other issues (as determined by Scientific Council Chair)

There was no other issue presented.

7.4 Feedback to the Scientific Council regarding its work during this Meeting

Questions and enquiries for further clarification arose in response to the Scientific Council Chair's presentation, to which the Scientific Council prepared responses during the meeting. The questions from the Fisheries Commission and the responses from the Scientific Council are compiled in Annex 4. The questions concerned the designation of the six closed seamounts as VMEs vis-à-vis the FAO International Guidelines for the Management of Deep-Sea Fisheries in the High Seas, and exploitation rates in other shrimp fisheries.

8. Formulation of Request to the Scientific Council for Scientific Advice on the Management of Fish Stocks in 2012 and on other matters

The Fisheries Commission **adopted** FC WP 10/19 (Revision 2) containing its request to the Scientific Council for scientific advice on management in 2012 and beyond of certain stocks in Subareas 2, 3, and 4 and on other matters (Annex 5).

III. Conservation of Fish Stocks in the Regulatory Area (Agenda items 9-10)

The Quota Table for 2011 and the Effort Allocation Scheme for the Shrimp Fishery in NAFO Division 3M can be found in Annex 6 of this Report. Allocation schemes on the following stocks are the same as in 2010.

9. Management and Technical Measures for Fish Stocks in the Regulatory Area, 2011

9.1 Cod in Division 3M

It was **agreed** to set the Total Allowable Catch (TAC) at 10 000 t. FC WP 10/20 concerning bycatch requirements on re-opened fisheries was **adopted** (Annex 7).

9.2 Redfish in Division 3M

It was **agreed** to set the TAC at 10 000 t, the same level as in 2010.

9.3 Shrimp in Division 3M

It was **decided** that fisheries for shrimp in this area shall not be permitted in 2011.

A footnote was inserted in Annex 1B of the NCEM: When the scientific advice estimates that the stock shows sign of recovery, the fishery shall be re-opened in accordance with the effort allocation key in place for this fishery at the time of the closure.

Iceland expressed that notwithstanding the closure of the fishery in 2011, it maintains its position against the effort allocation scheme applied to this stock.

Japan expressed that it is in favour of retaining the current management measures for 2011 because shrimp in division 3M could not decline considering that the re-opened cod fishery in division 3M would decrease the predation pressure on the shrimp.

Denmark (in respect of the Faroe Islands and Greenland) reserved its position on this decision, noting that although they were willing to support a considerable decrease in fishing days, closing the fisheries for 3M shrimp completely was considered too drastic a decision given that the fishery was at an all time low, the cod quota in 3M was increasing, and data from the fishery was useful in the development of scientific advice.

10. Management and Technical Measures for Fish Stocks Straddling National Fishing Limits, 2011

10.1 Cod in Divisions 3NO

It was **agreed** that there shall be no directed fishery in 2011, 2012 and 2013. The bycatch provisions of Article 12, § 1.b) of the NCEM shall apply.

FC WP 10/14 Revised was **adopted**, creating a new Working Group of Fishery Managers and Scientists on Conservation Plans and Rebuilding Strategies (Annex 8). One of its terms of reference is to conduct a comprehensive review of the existing 3NO Cod Conservation Plan and Re-building Strategy.

10.2 Redfish in Divisions 3LN

It was **agreed** to set the TAC at 6 000 t applicable in 2011 and 2012. FC WP 10/20 concerning bycatch requirements on re-opened fisheries was **adopted** (Annex 7).

10.3 Redfish in Division 3O

It was **agreed** to set the TAC at 20 000 t, the same level as in 2010.

10.4 Pelagic Sebastes mentella (oceanic redfish) in the NAFO Convention Area

It was **decided** that the management measures applied to this stock in 2010 shall continue in 2011.

There were different views among Contracting Parties as to how existing management measures for this stock should best be adapted with respect to the latest scientific advice and in the light of the fact that the relevant Coastal States and NEAFC are endeavouring to develop appropriate management measures for oceanic redfish.

Norway referred to the Scientific Council's recognition of the ICES advice for 2011 for oceanic pelagic redfish and in particular to the recommendation relating to shallow pelagic redfish. Norway recalled that ICES had advised that no directed fishery should be conducted on this stock, and that bycatches in non-directed fisheries should be kept as low as possible since the stock is at a very low state. Norway expressed the view that management in the NAFO Regulatory Area should reflect this advice.

The Russian Federation tabled a statement (FC WP 10/16) reiterating its views regarding the need for further scientific research to ensure scientific consensus on the stock structure of pelagic *Sebastes mentella* in the Irminger Sea and adjacent waters, including the NAFO Convention Area.

10.5 Yellowtail flounder in Divisions 3LNO

It was **agreed** to set the TAC at 17 000 t, the same level as in 2010.

10.6 Witch Flounder in Division 3L

It was **agreed** that there shall be no directed fishery in 2011, 2012 and 2013. The bycatch provisions of Article 12, § 1.b) of the NCEM shall apply.

10.7 White hake in Divisions 3NO

It was **agreed** to set the TAC at 6 000 t, the same level as in 2010.

10.8 Thorny skate in Divisions 3LNO

It was **decided** to set the TAC at 12 000 t, the same level as in 2010. The TAC will be reviewed at the next meeting.

Following consultations with the United States, the EU tabled a proposal aimed at limiting the catch of this stock in line with scientific advice, and Canada shared similar concerns. However, given that no agreement could be reached amongst NAFO Contracting Parties on this issue, the EU, Canada and the United States committed to continue efforts to ensure that catches do not exceed the scientific advice, to develop measures to achieve this goal at the next Annual Meeting, and to request the NAFO Scientific Council to advance and deepen the assessment of this stock.

10.9 Greenland halibut in Subarea 2 and Divisions 3KLMNO

The TAC for 2011 was set at 17 185 t (12 734 t in Divisions 3LMNO) following the recommendation of the FC Working Group on Greenland Halibut Management Strategy Evaluation (WGMSE).

10.9.1 Reports of the FC Working Group on Greenland Halibut Management Strategy Evaluation

The Co-Chair of the WGMSE Sylvie Lapointe (Canada) presented the recommendations of the working group which met in January in Brussels and in May and September in Halifax (FC WP 10/7 Revision 2, Annex 9). The recommendations concern Management Strategy Evaluation approach in establishing the TAC. The Fisheries Commission **adopted** the recommendations, and specifically **agreed** on *Management Strategy 2* with a starting TAC input value of 17 500 t in the Harvest Control Rule, which resulted in the TAC of 17 185 t for 2011.

The Fisheries Commission commended the working group and expressed its thanks for the hard work and accomplishments it made on the highly technical subject of Management Strategy Evaluation.

10.10 Shrimp in Divisions 3LNO

It was **agreed** to set the TAC at 19 200 t. Fishing is confined to Division 3L. The allocation scheme of 2010 would be continued in 2011. The reservation of Denmark (in respect of the Faroe Islands and Greenland) to the division of shares, which it does not recognize as an appropriate allocation, was noted.

A footnote in Annex IA of the NCEM (Quota Table) was inserted: For 2012, the TAC will be reduced to 17 000 t. This TAC will be reviewed based on the available Scientific Council advice on this stock.

10.11 American plaice in Divisions 3LNO

The Fisheries Commission **agreed** on an interim Conservation Plan and Rebuilding Strategy for this stock (FC WP 10/13 Revised, Annex 10).

FC WP 10/14 Revised was **adopted**, creating a new Working Group of Fishery Managers and Scientists on Conservation Plans and Rebuilding Strategies (Annex 8). One of its terms of reference is to conduct a comprehensive review of the interim 3LNO American place Conservation Plan and Re-building Strategy.

10.12 Northern shortfin squid in Subareas 3 + 4

It was agreed to continue existing measures until at least 2013, with a TAC of 34 000 t.

IV. Ecosystem Considerations (Agenda items 11-13)

During deliberations on ecosystem considerations, reference was made to the side-event during the meeting which featured a joint presentation by Canada and Spain on research results of the ongoing "NAFO Potential Vulnerable Marine Ecosystem-Impacts of Deep-sea Fisheries" (NEREIDA) programme. The NEREIDA conducts multidisciplinary research surveys on vulnerable ecosystems and the effects of fishing activities. The survey is funded by EU-Spain, Canada, EU-United Kingdom and the Russian Federation. Specific objectives include identifying organisms that constitute Vulnerable Marine Ecosystems (VMEs), describing ecology of deep-sea habitats studying distinct features in the area and developing a Geographic Information Systems (GIS) database. Deep-sea Remotely Operated Vehicles (ROVs) took video footage of both pristine coral areas and areas where corals had been impacted by bottom contact gears.

The Contracting Parties expressed their appreciation of the significance of this programme in NAFO's response to the UNGA Resolution 61/105. Scientists and personnel involved in the programme were applicated for their work.

Under this agenda item, the European Union proposed a resolution concerning the promotion of scientific research on climate change and its potential effects on NAFO fishery resources. While the proposed text garnered general support in principle, some Contracting Parties indicated that, given its late submission during the meeting, more time was required to reflect on the specific aims and appropriate wording of such a proposal. It was agreed to return to the matter at the next annual meeting.

11. Review of seamounts closure

It was **agreed** to roll over for four years the existing measures on seamounts as stipulated in Article 15 of the NAFO Conservation and Enforcement Measures (NCEM). This means that the six identified seamounts will continue to be closed to all bottom fishing activities until December 31, 2014.

The Fisheries Commission **instructed** the Working Group of Fishery Managers and Scientists on Vulnerable Marine Ecosystems to review Article 15 § 5-8 in conjunction with the review and update of Chapter Ibis of the NCEM.

12. Report of the Ad Hoc Working Group of Fishery Managers and Scientists on VMEs (WGFMS)

The Fisheries Commission noted the report of the Ad Hoc WGFMS which met in May 2010 (FC Doc 10/4).

12.1 Recommendations from the May 2010 Meeting

Bill Brodie (Canada), Chair of the Ad Hoc Working Group, presented the recommendations from the May 2010 meeting for adoption or consideration (FC WP 10/2, Revised, Annex 11):

- a) revised Exploratory Fishery Data Collection Form
- b) revised Article 5bis of the NCEM on Interim Encounter Provision
- c) map of existing fishing areas in the NAFO Regulatory area
- d) updated Chapter Ibis of the NCEM
- e) revised Article 4bis on Assessment of Bottom Fishing

The Fisheries Commission adopted Recommendations a) – d) and considered Recommendation e).

Regarding Recommendation a), the revised Exploratory Fishery Data Collection Form would be intended for use during exploratory fishery in accordance with Article 5bis § 2(b) of the NCEM. The form captures all the information required as stipulated in the template Data Collection Plan described in Annex XXV of the NCEM.

Regarding Recommendation b), the amendment of Article 5bis enhances the reporting requirements on Interim Encounter Provisions in existing fishing areas and new fishing areas.

Regarding Recommendation c), the map of existing fishing areas (footprint) is to be used and interpreted according to Article 2bis of the NCEM.

Regarding Recommendation d), the update is a "housekeeping" task to remove or update out-dated provisions in Chapter Ibis. The update did not include substantial changes in the Chapter.

Regarding Recommendation e), the Fisheries Commission considered the issues identified by the working group concerning the requirements for the assessment of bottom fishing as provided in Article 4bis. A proposal by the United States to amend the Article (FC WP 10/8 Revision 2, Annex 12) was brought forward and **adopted** by the Fisheries Commission. The amended article elaborates what the assessment should address.

Denmark (in respect of the Faroe Islands and Greenland) urged that in the further refinement of assessment procedures, attention should be given to ensuring that their implementation is practical, both for the relevant national authorities and for the industry.

In adopting the proposals, the Fisheries Commission commended the working group and expressed its thanks for the hard work and accomplishments. It also expressed its appreciation and thanks to the Secretariat which undertook the complex task of preparing the composite footprint map based on the submissions from the Contracting Parties.

12.2 Future of the Ad Hoc WGFMS

The Fisheries Commission **agreed** that the working group should continue. In adopting FC WP 10/10 Revised (Annex 13), the "ad hoc" nature of the working group was removed and new terms of reference were defined.

13. Multi-species interactions

13.1 Sea turtle – fisheries interactions

At the 2006 Annual Meeting, the Fisheries Commission adopted "Resolution to Reduce Sea Turtle Mortality in NAFO Fishing Operations". A progress report was submitted to FAO in December 2008 on NAFO's implementation of the Resolution.

The Secretariat presented a summary of the submissions of the Contracting Parties on their progress on the implementation since the last report (FC WP 10/6 Revised and Addendum). It was noted that either the fleets of the Contracting Parties did not encounter sea turtles in their fishing operations over the last two years, or the Contracting Parties did not have any new significant information to report. It was decided to send a progress report to FAO only when new significant information becomes available. The Contracting Parties were urged to update the Secretariat on this matter.

13.2 Marine mammal – fisheries interactions

Denmark (in respect of the Faroe Islands and Greenland) referred to the report of the NAFO observer to the NAMMCO 19th meeting (GC WP 10/2) and in particular drew attention to the on-going work through the NAMMCO Scientific Committee to develop ecosystem models which can better describe the interactions between marine mammals and fish as a basis for improved management of all relevant marine resources. This work is likely to represent a major step forward in this field on a global scale. It will run over 2-3 years to progress work towards using ecosystem-based management of marine resources, including marine mammals, in the North Atlantic region. Four different models will be applied in two geographical regions: the Barents Sea and the waters around Iceland.

It was agreed that this item will be retained on the agenda for future meetings.

V. Conservation and Enforcement Measures (Agenda items 14-15)

14. Review of Chartering Arrangements

A report on chartering arrangements was presented by the NAFO Secretariat (FC WP 10/3). There were five charter arrangements made during 2009 and three arrangements during January-September 2010. The Secretariat noted full compliance with all the chartering requirements stipulated in Article 19 of the NCEM.

15. Reports of STACTIC (from May 2010 intersessional meeting and current Annual Meeting)

The May 2010 intersessional meeting report was presented under item 6. The STACTIC Chair presented the results of the STACTIC Report (see Part II of this Report). As instructed, STACTIC also evaluated Contracting Parties' compliance with Article 17 concerning shark management.

15.1 Charter of fishing possibilities from quota allocations shared by other Contracting Parties

On the clarification sought by STACTIC (see item 6), the Fisheries Commission confirmed that chartering of fishing possibilities from quota allocations shared by other Contracting Parties should not be allowed.

15.2 Conservation and Management of Sharks

STACTIC advised that there were no identified compliance issues related to the provisions of NAFO CEM Article 17 on sharks and that it would reflect further on potential reporting improvements with the view to enhancing the provisions of Article 17.

15.3 Recommendations

The following recommendations from the May 2010 intersessional meeting and this Meeting were forwarded to the Fisheries Commission:

- a) Duration of Inspection (STACTIC 09/20, Annex 14)
- b) Inspection Party Composition (STACTIC WP 09/21 Revised 2, Annex 15)
- c) Chartering Arrangements (STACTIC WP 10/8 Revision 2, Annex 16)
- d) Daily Communication of Catches (STACTIC WP 10/9 Revision 5, Annex 17)
- e) Notification Requirements (STACTIC WP 10/10, Annex 18)
- f) Report on Infringements Article 42 (STACTIC WP 10/11 Revised 2, Annex 19)

- g) Report on Infringements Template (STACTIC WP 10/19 Revised, Annex 20)
- h) PSC 3 Form (STACTIC WP 10/23, Annex 21)
- i) Shrimp Strengthening Bag (STACTIC WP 10/24 Revised, Annex 22)
- j) Delisting Procedure for IUU Vessels (STACTIC WP 10/36 Revised, Annex 23)
- k) Product Labelling (STACTIC WP 10/37, Annex 24)

The Fisheries Commission **adopted** all recommendations. In addition, the Fisheries Commission **accepted** the Annual Compliance Review 2010 (STACTIC WP 10/26, Annex 25).

VI. Closing Procedure (Agenda items 16-18)

16. Time and Place of the Next Meeting

This decision was deferred to the General Council.

17. Other Business

The Fisheries Commission expressed serious concerns about the delay in the provision of updated advice on shrimp from the Scientific Council. The updated advice was provided in the afternoon on the second day of the meeting, resulting in inadequate time for Contracting Parties to consult their respective governments and stakeholders. While acknowledging that current schedules of SC and FC meetings and the timing of shrimp research surveys contributed to the delay, the Fisheries Commission strongly urged the Scientific Council to endeavour to make the updated advice available at the latest one week prior to the start of the Annual Meeting.

18. Adjournment

The meeting was adjourned at 1530 hrs on Friday, 24 September 2010.

Annex 1. List of Participants

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Annex 2. Record of Decisions and Actions by the Fisheries Commission (Annual Meeting 2010)

Substantive Issues (Agenda item):	Decision/Action:	
4. Election of Vice-Chair	Elected Sylvie Lapointe (Canada) as Vice-Chair.	
7. Scientific Advice	Noted Scientific Council Chair's presentation of the scientific advice.	
8. Formulation of Request to the Scientific Council for Scientific Advice on the Management of Fish Stocks in 2012	Adopted FC WP 10/19 (Revision 2).	
9 Management and Technical Measures for Fish Stocks in the Regulatory Area, 2010	(see 2011 Quota Table)	
9.1 Cod in Division 3M	TAC was set at 10 000 t. Adopted FC WP 10/20 concerning bycatch requirements.	
9.2 Redfish in Division 3M	TAC was set at 10 000 t, same level as in 2010.	
9.3 Shrimp in Division 3M	Decided that fisheries for shrimp in this area should not be permitted in 2011.	
	Inserted footnote in Annex 1B of the NCEM: When the scientific advice estimates that the stock shows sign of recovery, the fishery shall be re-opened in accordance with the effort allocation key in place for this fishery at the time of the closure.	
10. Management of Technical Measures for Fish Stocks Straddling National Fishing Limits, 2010	(see 2011Quota Table)	
10.1 Cod in Div. 3NO	No directed fishery. Applicable until 2013. Created a new Working Group (FC WP 10/14 Revised), one of its term of reference is to conduct a comprehensive review of the existing 3NO Cod Conservation Plan and Re-Building Strategy.	
10.2 Redfish in Div. 3LN	TAC was set at 6 000 applicable for 2011 and 2012. Adopted FC WP 10/20 concerning bycatch requirements.	
10.3 Redfish in Divisions 3O	TAC was set at 20 000 t, same level as in 2010.	
10.4 Pelagic Sebastes mentella (oceanic redfish) in the NAFO Convention Area	Decided that management measures applied to this stock in 2010 shall continue in 2011.	
10.5 Yellowtail flounder in Div. 3LNO	TAC was set at 17 000 t, same level as in 2010.	
10.6 Witch flounder in Div. 3L	No directed fishery. Applicable until 2013.	
10.7 White hake in Divisions 3NO	TAC was set at 6 000 t, same level as in 2010.	

10.8 Thorny skate in Divisions 3LNO	TAC was set at 12 000 t, same level as in 2010. Agreed to review the TAC at the next meeting.
10.9 Greenland halibut in Subarea 2 and Divisions 3KLMNO	TAC was set at 17 185 t (12 734 t in Div 3LMNO) following the recommendation of the WGMSE.
10.9.1 Reports of the FC Working Group on Greenland Halibut Management Strategy Evaluation	Adopted FC WP 10/7 Revision 2 concerning the WGMSE recommendations on Management Evaluation Strategy approach in establishing TAC, specifically agreed on <i>Management Strategy</i> 2 with a starting TAC input value of 17 500 t in the Harvest Control Rule which resulted to the TAC of 17 185 t for 2011.
10.10 Shrimp in Divisions 3LNO	TAC was set at 19 200 t. Fishing is confined to Div 3L.Allocation scheme is maintained. The reservation of Denmark (in respect of the Faroe Islands and Greenland) on the allocation scheme was noted. Inserted footnote in Annex 1A of the NCEM: For 2012, the TAC will be reduced to 17 000 t. This TAC will be reviewed based on available Scientific Council advice on this stock.
10.11 American plaice in Div. 3LNO	Adopted FC WP 10/13 Revised concerning an interim Conservation Plan and Rebuilding Strategy for this stock.
	Created a new Working Group (FC WP 10/14 Revised), one of its term of reference is to conduct a comprehensive review of the interim 3LNO American plaice Conservation Plan and ReBuilding Strategy.
10.12 Squid (<i>Illex</i>) in Subareas 3 and 4	TAC was set at 34 000 t. Applicable until 2013.
11. Review of Seamounts	Agreed to rollover until 2014 the existing measures on seamounts as stipulated in Article 15 of the NCEM.
	Instructed the WGFMS to review Article 15 in conjunction with the review and update of Chapter Ibis of the NCEM.
12. Report of the Ad Hoc Working Group of Fishery Managers and Scientists on VMEs	Noted FC Doc 10/4, the report of the ad Hoc WGFMS from its May 2010 meeting.
12. 1 Recommendations from the May 2010 Meeting	Adopted FC WP 10/2, Revised Annex 1 concerning the revised Exploratory Fishery Data Collection Form as Annex XXV.III of the NCEM.
	Adopted FC WP 10/2 Revised, Annex 2 concerning the revision of Article 5bis of the NCEM.
	Adopted FC WP 10/2 Revised, Annex 3 concerning footprint map.
	Adopted FC WP 10/2 Revised, Annex 4 concerning the editorial update of Chapter Ibis of the NCEM.
	Adopted FC WP 10/8 Revision 2 concerning revision of Article 4bis of the NCEM on assessment of bottom fishing.
12. 2 Future of the Ad Hoc WGFMS	Adopted FC WP 10/10 Revised concerning the removal of the "ad hoc" nature and the new terms of reference of the working group.
15. Reports of STACTIC (from May 2010 intersessional meeting and current Annual Meeting	Noted the STACTIC Reports on its 2010 Intersessional Meeting (FC Doc. 10/6) and this meeting (Part II of this Report).

15.1 Chartering of fishing possibilities from quota allocations shared by other CPs.	Confirmed that chartering of fishing possibilities from quota allocations shared by other CPs is not allowed.
15.3 Recommendations	Adopted STACTIC WP 09/20 concerning duration of inspections
	Adopted STACTIC WP 09/21 Revision 2 concerning inspection party composition.
	Adopted STACTIC WP 10/8 Revision 2 concerning chartering arrangements.
	Adopted STACTIC WP 10/9 Revision 5 concerning requirements on daily communication of catches.
	Adopted STACTIC WP 10/10 concerning notification requirement in the Joint Inspection and Surveillance Scheme.
	Adopted STACTIC WP 10/11 Revision 2 concerning report on infringements.
	Adopted STACTIC WP 10/19 Revised concerning template for "Report on Infringement".
	Adopted STACTIC WP 10/23 concerning the revised PSC 3 form used in port inspections.
	Adopted STACTIC WP 10/24 Revised concerning shrimp strengthening bags.
	Adopted STACTIC WP 10/36 Revised concerning delisting procedure for IUU vessels.
	Adopted STACTIC WP 10/37 concerning product labeling and recoding of catch.
	Accepted STACTIC WP 10/26 concerning the Annual Compliand Review.

Annex 3. Agenda

I. Opening Procedure

- 1. Opening by the Chair, Kate Sanderson (Denmark in respect of the Faroe Islands and Greenland)
- 2. Appointment of Rapporteur
- 3. Adoption of Agenda
- 4. Election of Vice-Chair
- 5. Review of Commission Membership
- 6. Guidance to STACTIC necessary for them to complete their work

II. Scientific Advice

- 7. Presentation of scientific advice by the Chair of the Scientific Council
 - 7.1 Scientific advice on fish stocks
 - 7.2 Vulnerable Marine Ecosystems (VMEs) and other ecosystem consideration
 - 7.3 Other issues (as determined by the Chair of the Scientific Council)
 - 7.4 Feedback to the Scientific Council regarding its work during this Meeting
- 8. Formulation of Request to the Scientific Council for Scientific Advice on the Management of Fish Stocks in 2012 and on other matters

III. Conservation of Fish Stocks in the Regulatory Area

- Management and Technical Measures for Fish Stocks in the Regulatory Area, 2011
 - 9.1 Cod in Division 3M
 - 9.2 Redfish in Division 3M
 - 9.3 Shrimp in Division 3M
- 10. Management and Technical Measures for Fish Stocks Straddling National Fishing Limits, 2011
 - 10.1 Cod in Divisions 3NO
 - 10.2 Redfish in Divisions 3LN
 - 10.3 Redfish in Division 3O
 - 10.4 Pelagic Sebastes mentella (oceanic redfish) in the NAFO Convention Area
 - 10.5 Yellowtail flounder in Divisions 3LNO
 - 10.6 Witch flounder in Division 3L
 - 10.7 White hake in Divisions 3NO
 - 10.8 Thorny skate in Divisions 3LNO
 - 10.9 Greenland halibut in Subarea 2 and Divisions 3KLMNO
 - 10.9.1 Reports of the FC Working Group on Greenland Halibut Management Strategy Evaluation
 - 10.10 Shrimp in Divisions 3LNO
 - 10.11 American plaice in Divisions 3LNO
 - 10.12 Northern shortfin squid in Subareas 3+4

IV. Ecosystem Considerations

- 11. Review of seamounts closure
- 12. Report of the Ad Hoc Working Group of Fishery Managers and Scientists on VMEs (WGFMS)
 - 12.1 Recommendations from the May 2010 meeting
 - 12.2 Future of the Ad Hoc WGFMS
- 13. Multi-species interactions
 - 13.1 Sea turtle fisheries interactions
 - 13.2 Marine mammal fisheries interactions

V. Conservation and Enforcement Measures

- 14. Review of Chartering Arrangements
- 15. Reports of STACTIC (from May 2010 intersessional meeting and current Annual Meeting)
 - 15.1 Chartering of fishing possibilities from quota allocations shared by other Contracting Parties
 - 15.2. Conservation and Management of Sharks
 - 15.3 Recommendations

VI. Closing Procedure

- 16. Time and Place of Next Meeting
- 17. Other Business
- 18. Adjournment

Annex 4. Scientific Council Responses to Questions from the Fisheries Commission (FC Working Paper 10/9)

1. SC is requested to explain how the FAO guidelines are used in the reply to the FC request on seamount closures (p. 46 in FC Working Paper 10/1) and provide references to relevant articles in the FAO guidelines.

The United Nations General Assembly (UNGA) in its Sustainable Fisheries Resolution 61/105, paragraph 80, calls upon "States to take action immediately, individually and through regional fisheries management organizations and arrangements, and consistent with the precautionary approach and ecosystem approaches, to sustainably manage fish stocks and protect vulnerable marine ecosystems, **including seamounts**, hydrothermal vents and cold water corals, from destructive fishing practices, recognizing the immense importance and value of deep-sea ecosystems and the biodiversity they contain".

To assist in the implementation of this resolution FAO developed its "International guidelines for the management of deep-sea fisheries in the high seas". This document, in its article 13, indicates that "many deep-sea marine living resources have low productivity and are only able to sustain very low exploitation rates. Also, when these resources are depleted, recovery is expected to be long and is not assured"; while its article 21.ii. indicates that RFMOs need to "identify areas or features where VMEs are known or likely to occur, and the location of fisheries in relation to these areas and features".

In addition, the annex of the Guidelines provides "examples of potentially vulnerable species groups, communities and habitats, as well as features that potentially support them" and identifies "summits and flanks of seamounts, guyots, banks, knolls, and hills" as "examples of topographical, hydrophysical or geological features, including fragile geological structures, that potentially support the [VME] species groups or communities".

Even though detecting the presence of an element (e.g. seamount) in itself is not sufficient to identify VMEs, it indicates a place where VMEs are likely to exist. The SC used these guidelines in determining that the 6 seamount closures contain or are likely to contain vulnerable marine ecosystems. Although there is no *in situ* data for the Fogo and Newfoundland seamounts, the available information for **all** other seamounts (e.g. findings and research summarized in WGEAFM reports, results from the NEREIDA project) indicates the presence of VME-defining corals and sponges.

2. Is evidence of the potential impact of pelagic trawl or midwater pelagic trawl on seamounts VMEs well documented?

Mid-water trawls are often used to fish on seamounts (Clark *et al.* 2006, 2007, Clark 2009); their use has been reported in seamount fisheries around the world and involving at least 11 fish target species (orange roughy, alfonsino, cardinal fish, redfish, pelagic armourhead, mackerel, roundnose grenadier, scabbard fish, bluenose, rubyfish, and pink maomao). These mid-water trawls may have only a small impact on benthic habitats if they are deployed well above the sea floor, however, in many cases the gear is used very close to or sometimes even touching the bottom. In such cases there is an increased potential for contact and damage to corals and sponges. These gears can also affect fish species with VME-defining life history traits (see also answer to question 3 below).

3. What is the link between the possible impacts of pelagic trawl or midwater pelagic trawl on seamounts VMEs and SC concerns about the affects on populations of aggregations of deep-sea species and the possibility of higher proportions of juvenile fish in catches?

The article 42 of the FAO guidelines describes five criteria to be used in the identification of VMEs. Among these criteria, three of them are directly applicable to address this question. These criteria are:

- *i.* Uniqueness or rarity an area or ecosystem that is unique or that contains rare species whose loss could not be compensated for by similar areas or ecosystems. These include:
 - habitats that contain endemic species:
 - habitats of rare, threatened or endangered species that occur only in discrete areas; or
 - nurseries or discrete feeding, breeding, or spawning areas.

- **ii.** Functional significance of the habitat discrete areas or habitats that are necessary for the survival, function, spawning/reproduction or recovery of fish stocks, particular life history stages (e.g. nursery grounds or rearing areas), or of rare, threatened or endangered marine species.
- iii. Life-history traits of component species that make recovery difficult ecosystems that are characterized by populations or assemblages of species with one or more of the following characteristics:
 - slow growth rates;
 - late age of maturity;
 - low or unpredictable recruitment; or
 - long-lived

Seamount ecosystems, like islands, can be described as realtively closed, small and isolated ecosystems, and are characterized for a high levels of endemism. It has been estimated that 11.6% of fishes and 15.4% of invertebrates reported from seamounts were endemic (Stocks and Hart 2007). This feature of seamount communities falls under criteria *i (uniquess or rarity)*. Some of these species can be vulnerable to pelagic fishing.

The characteristics described under criteria *iv* (*life-history traits*) clearly apply to corals and sponges, but they also apply to some fish species. In this context, fish species that aggregate in seamounts typically possess biological characteristics that make them highly vulnerable to exploitation (Morato *et al.* 2006).

In relation with criteria *ii* (*functional significance of the habitat*), some seamounts are known to aggregate juvenile fish. For example, the Cross Seamount near Hawaii, is known to aggregate large schools of juvenile bigeye, and to a lesser degree, yellowfin tuna (Holland *et al.* 1999; Itano and Holland 2000, Sibert *et al.* 2000; Adam *et al.* 2003). There is a growing body of empirical evidence that pelagic fishing near seamounts results in higher catch rates of juvenile and undersized tunas (Fonteneau 1991, Itano and Holland 2000; Sibert *et al.* 2000, Adams *et al.*, 2003, Litvinov 2007, Morato *et al.* 2008). In these cases, even though these species are not endemic to seamounts nor they remain there for their entire life cycle, seamounts may play an important role in the recruitment of these oceanic populations.

Although many of the issues detailed above are likely to apply to the seamounts within the NRA, the knowledge of their fish communities and their dynamics is still scarce. Therefore, and in accordance with the *UN Fish Stock Agreement* and the *FAO Code of Conduct for Responsible Fisheries*, the exercise of caution is required when fishing on these communities is being considered.

4. What are the deep-sea species in question?

The fish species identified as targets in seamount fisheries worldwide include Alfonsino, Orange roughy, Oreos, Cardinalfish, Redfish, Southern boarfish, Pelagic armourhead, Mackerel species, Roundnose grenadier, Blue ling, Scabbard fish, Sablefish, Bluenose, Rubyfish, Pink maomao, and Notothenid cods (FAO 2008, Clark *et al.* 2007, Clark 2009).

5. How is "occational impact of fishing on benthic VMEs" determined?

The term "occasional" is used in reference to those cases where an unintentional contact with the benthic communities takes place. For example, mid-water trawls, even though not intended to contact the bottom, may in occasions accidentally touch it or fish very close to it. For example, available information on by-catch for pelagic fishing for redfish in the Flemish Cap suggests that by-catch may occurs when the gear fishes near the bottom.

6. How well is the relationshsips between semounts, pelagic fishing, pelagic species and benthic VMEs understood?

There are over 1 million seamounts in the world's oceans, with 100,000 to 200,000 reaching heights of greater than a kilometer (Kitchingman *et al.* 2007). Very few of these have been studied in detail but a number have been studied for several decades and the information from these has been compared and contrasted to produce a global synthesis of the ecology, fisheries and conservation of seamounts.

"Pelagic and benthic components of seamount ecosystems may be functionally linked, such that pelagic fisheries' removal of seamount-associated pelagic species may indirectly affect seamount benthic communities" (Passfield and Gilman 2010). There is a trophic link between bentho-pelagic species and seamount benthos, where bentho-pelagic species, such as the alfonsino, have been found to feed both on pelagic and benthic prey species (Lehodey 1994, Parin et al. 1997). The trophic link between large pelagic species and the benthic component of seamounts is less well established and likely to be indirect in nature. However, there is an ontogenetic link between pelagic and benthic seamount habitats with most seamount benthic species, including fish, having a pelagic stage, usually as juveniles (e.g. armorhead) (Passfield and Gilman 2010).

References

Adam, M. S., Sibert, J. R., Itano, D., Holland, K. N. 2003. Dynamics of bigeye (*Thunnus obesus*) and yellowfin (*T. albacares*) tuna in Hawaii's pelagic fisheries: analysis of tagging data with a bulk transfer model incorporating size-specific attrition. Fishery Bulletin 101: 215-228.

Clark MR, Tittensor D, Rogers AD, Brewin P, Schlacher T, Rowden A, Stocks K, Consalvey M. 2006. Seamounts, deep-sea corals and fisheries: vulnerability of deep-sea corals to fishing on seamounts beyond areas of national jurisdiction. UNEPWCMC, Cambridge, UK.

Clark, M.R. 2009. Deep-sea seamount fisheries: a review of global status and future prospects. *in* P. Arana, J.A.A. Perez & P.R. Pezzuto (eds.) "Deep-sea fisheries off Latin America" Lat. Am. J. Aquat. Res. 37(3): 501-512, 2009

Clark, M.R., V.I. Vinnichenko, J.D.M. Gordon, G.Z. Beck-Bulat, N.N. Kukharev & A.F. Kakora. 2007. Large scale distant water trawl fisheries on sea-mounts. *in* T.J, Pitcher, T. Morato, P.J.B. Hart, M.R. Clark, N. Haggan, and R.S. Santos (eds) "Seamounts: Ecology, Fisheries, and Conservation", Blackwell Publishing.

FAO. 2008. Report of the Expert Consultation on International Guidelines for the Management of Deepsea Fisheries in the High Seas. Bangkok, 11–14 September 2007. FAO Fisheries Report. No. 855. Rome, FAO. 2008. 39p.

Fonteneau, A. 1991. Seamounts and tuna in the tropical Atlantic. Aquatic Living Resources 4: 13-25.

Holland, K. N., Kleiber, P., Kajiura, S. M. 1999. Different residence times of yellowfin tuna, *Thunnus albacares*, and bigeye tuna, *T. obesus*, found in mixed aggregations over a seamount. Fishery Bulletin **97**, 392-395.

Itano, D., Holland, K. N. 2000. Movement and vulnerability of bigeye (*Thunnus obesus*) and yellowfin (*Thunnus albacares*) in relation to FADs and natural aggregation points. Aquatic Living Resources 13: 213-223.

Kitchingman A, Lai S, Morato T, Pauly D (2007) How many seamounts are there and where are they located? *in* T.J, Pitcher, T. Morato, P.J.B. Hart, M.R. Clark, N. Haggan, and R.S. Santos (eds) "Seamounts: Ecology, Fisheries, and Conservation", Blackwell Publishing.

Lehodey P (1994) Les monts sous-marins de Nouvelle-Caledonie et leurs resources halieutiques. 1-401.

Litvinov, F. 2007. Fish visitors to seamounts: aggregations of large pelagic sharks above seamounts. *in* T.J, Pitcher, T. Morato, P.J.B. Hart, M.R. Clark, N. Haggan, and R.S. Santos (eds) "Seamounts: Ecology, Fisheries, and Conservation", Blackwell Publishing.

Morato, T., W.W.L. Cheung, and T.J. Pitcher. 2006. Vulnerability of seamount fish to fishing: fuzzy analysis of life-history attributes. Journal of Fish Biology 68:209–221.

Morato T, Varkey DA, Damaso C, Machete M, Santos M, Prieto R, Santos RS, Pitcher TJ. 2008. Evidence of a seamount effect on aggregating visitors. Marine Ecology-Progress Series 357: 23-32.

Parin NV, Mironov AN, Nesis KN (1997) Biology of the Nazca and Sala y Gomez submarine ridges, an outpost of the Indo-West Pacific Fauna in the Eastern Pacific Ocean: Composition and Distribution of the Fauna, its communities and history. Advances in Marine Biology 32: 147-221.

Passfield K, Gilman E (2010) Effects of Pelagic Longline Fishing on Seamount Ecosystems Based on Interviews with Pacific Island Fishers. International Union for the Conservation of Nature, Oceania Regional Office, Suva, Fiji.

Sibert, J., Holland, K., Itano, D. 2000. Exchange rates of yellowfin and bigeye tunas and fishery interaction between Cross seamount and nears-shore FADs in Hawaii. *Aquatic Living Resources* 13: 225-232.

Stocks, K.I., and P.J.B. Hart. 2007. Biogeography and biodiversity of seamounts. Pages: 255-281 *in* T.J, Pitcher, T. Morato, P.J.B. Hart, M.R. Clark, N. Haggan, and R.S. Santos (eds) "Seamounts: Ecology, Fisheries, and Conservation", Blackwell Publishing.

The Scientific Council is asked: to provide information on exploitation rates applied in shrimp fisheries in other regions of the world.

Response:

'Exploitation rate' (catch/survey biomass) is an index of fishing mortality. The values within one time series can be compared, but values between series can only be compared if the surveys used in the calculation are of identical design or it is know how the different surveys scale to absolute biomass. Eg. the exploitation rate calculated for the Div. 3LNO shrimp cannot be compared to a similar index calculated for the West Greenland or Barents Sea stocks, as the surveys are of different design and therefore relates differently to the absolute stock size. A good example of how these differences in survey design frame, the derived exploitation index series on different scales may be found by comparing the 2-14% exploitation rate in Div. 3LNO to the 200-900% in Div. 3M.

The survey of the Div. 3LNO stock extends into the Canadian SFA 5 and 6 (NAFO Div. 2HJ3K) and therefore the exploitation rate indices for these two stock components may be compared assuming that these surveys relate in a similar way to the absolute biomass.

Shrimp Fishing Area	Year range	Exploitation rate index %
(NAFO Divisions)	(catch year)	Average (range)
5 (Div. 2HJ)	1997 - 2009	16 (8 – 21)
6 (Div. 2J3K)	1997 - 2009	13 (4-18)
7 (Div. 3LNO)	2000 - 2009	10 (4-14)

Annex 5. Fisheries Commission's Request for Scientific Advice on Management Options in 2012 and Beyond of Certain Stocks in Subareas 2, 3 and 4 and Other Matters

(FC Working Paper 10/19, Revision 2 now FC Doc. 10/9, Revised)

1. The Fisheries Commission with the concurrence of the Coastal State as regards to the stocks below which occur within its jurisdiction ("Fisheries Commission") requests that the Scientific Council provide advice in advance of the 2011 Annual Meeting, for the management of Northern shrimp in Div. 3M, 3LNO in 2012.

Noting that Scientific Council will meet in October of 2010 for 2012 TAC advice, Fisheries Commission requests the Scientific Council to update its advice on shrimp stocks in 2011 for 2012 TAC.

Fisheries Commission further requests that SC provide advice in accordance to Annex 1.

Fisheries Commission requests that the Scientific Council provide advice for the management of the fish stocks below according to the following assessment frequency (unless Fisheries Commission requests additional assessments):

Two year basis
American plaice in Div. 3LNO
Capelin in Div. 3NO
Cod in Div. 3M
Redfish in Div 3LN
Redfish in Div. 3M
Thorny skate in Div. 3LNOPs
White hake in Div. 3NOPs
Yellowtail flounder in Div. 3LNO

Three year basis
American plaice in Div. 3M
Cod in Div. 3NO
Northern shortfin squid in SA 3+4
Redfish in Div. 3O
Witch flounder in Div. 2J+3KL
Witch flounder in Div. 3NO

To continue this schedule of assessments, the Scientific Council is requested to conduct the assessment of these stocks as follows:

In 2011, advice should be provided for 2012 and 2013 for American plaice in Div. 3LNO, yellowtail flounder in Div. 3LNO, redfish in Div. 3M, white hake in Div. 3NO and capelin in Div. 3NO and for 2012, 2013 and 2014 American plaice in Div. 3M and witch flounder in Div. 3NO.

In 2011, advice should be provided for 2012 for 3M cod.

Fisheries Commission requests that SC provide advice in accordance to Annex 1.

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

- 3. With respect to Northern shrimp (*Pandalus borealis*) in Div. 3LNO, noting the NAFO Framework for Precautionary Approach and recognizing the desire to demonstrate NAFO's commitment to applying the precautionary approach, Fisheries Commission requests the Scientific Council to:
 - a) identify F_{msv}
 - b) identify B_{msv}
 - c) provide advice on the appropriate selection of an upper reference point for biomass (e.g. B_{buf})
- 4. The Scientific Council is requested to provide updated information on the proportion of the 3LNO shrimp stock that occurs in 3NO.
- 5. With respect to 3M shrimp, the Scientific Council estimated in 2009 a proxy for B_{lim} as 85% decline from the maximum observed index levels, this is 2600 t of female biomass. In 2009 the Scientific Council estimated biomass to be below B_{lim} and recommended fishing mortality to be set as close to zero as possible.

In 2009 estimated catches reached 5000 t. The Fisheries Commission decided on a 50% effort reduction in 2010 and provisional estimated catches up to September 2010 reached 1000 t. In its 2010 advice, the Scientific Council estimated biomass to be above B_{lim}, but reiterated its previous advice to set fishing mortality as close to zero as possible. The Fisheries Commission requests the Scientific Council to evaluate if the current level of catches is compatible with stock recovery, given that improvements in biomass levels were observed through current level of catches.

- 6. The Fisheries Commission adopted in 2010 an MSE approach for Greenland halibut stock in Subarea 2 + Division 3KLMNO (FC Working Paper 10/7). This approach considers a survey based harvest control rule (HCR) to set a TAC for this stock on an annual basis for the next four year period. The Fisheries Commission requests the Scientific Council to:
 - a) annually monitor and update the survey slope and to compute the TAC according to HCR adopted by the Fisheries Commission according to Annex 1 of FC Working Paper 10/7.
 - b) provide guidance on what constitutes "exceptional circumstances".
 - c) provide advice on whether or not the "exceptional circumstances" provision should be applied.
- Fisheries Commission requests the Scientific Council to identify F_{msy}, identify B_{msy} and provide advice on the
 appropriate selection of an upper reference point for biomass (e.g. B_{buf}) for 3LNO American Plaice, 3NO cod
 and 3LN redfish.
- 8. Fisheries Commission requests the Scientific Council to review the stock recruit relationship for 3NO cod and the historical productivity regime used in setting the B_{lim} value of 60 000t.
- 9. Noting that distribution and historical catches of capelin have also occurred in 3L, the Scientific Council is requested to provide the Fisheries Commission with available information on the occurrence and distribution of capelin in 3L and to advise on further research requirements.
- 10. Fisheries Commission requests the Scientific Council to examine the consequences resulting from a decrease in mesh size in the mid-water trawl fishery for redfish in Div. 3LN to 90mm or lower.
- 11. Blue whiting (*Micromesistius poutassou*) is a widely distributed species, which can be found in the open ocean as a semi-pelagic species and in shallower waters close to the bottom. Blue whiting is largely fished in the North Eastern-Atlantic by pelagic trawls. The North East Atlantic Fisheries Commission (NEAFC) defined a minimum mesh size of 35mm when fishing for blue whiting with pelagic trawls in its regulatory area. Interest is increasing for developing fishing opportunities on this stock in the NAFO Regulatory Area, specifically in the boundary with the NEAFC RA, Division 1F, sub area 2 and Division 3K.

The Fisheries Commission requests the Scientific Council to give advice on the following measures to be adopted for the blue whiting:

- a) Change in the classification of blue whiting in the species table (Annex II of NAFO CEM), from classification as a groundfish species to a pelagic species, consistent with the NEAFC classification.
 b) In line with conservation and management measures in force in the NEAFC Regulatory Area, adoption of a minimum mesh size for pelagic and semi-pelagic trawls which would include in paragraph 1 of Article 13 Gear Requirements the following:
- g) 35 mm for blue whiting in the fishery using pelagic trawls in Subarea 2 and Divisions 1F, 3K and 3M.
- 12. Catches of thorny skate in Div. 3LNO averaged 18 000 t between 1985 and 1991 and declined to 7 500 t in 1992-1995. Since 2000, estimated catches averaged 9 000 t. No analytical assessment has been performed and the current advice is based on the decline of the survey indices, which have been stable at low levels since 1996. However, relative fishing mortality has been relatively constant at around 17% between 1998 and 2004 and declined to 5% from 2005. Scientific Council has recommended that catches in 2011 and 2012 should not exceed the last three years average catch (approximately 5 000 t). The Fisheries Commission requests the Scientific Council to clarify the reason behind using the last three years period as the basis for the advice and to provide alternative options. In its examination, the Scientific Council should also take into account the relative

stability of all survey indices since 1996 and furthermore consider the information that relative fishing mortality has declined to low levels.

13. Mindful of the NEREIDA mission, the international scientific effort led by Spain to survey the seafloor in the NAFO Regulatory Area,

Recognizing that the Coral and Sponge Protection Zones closed to bottom fishing activities for the protection of vulnerable marine ecosystems as defined in Chapter 1 Article 16 Paragraph 3 is in place until December 31, 2011.

Mindful of the call for review of the above measures based on advice from the Scientific Council,

Fisheries Commission requests that Scientific Council review any new scientific information on the areas defined in Chapter 1 Article 16 Paragraph 3 which may support or refute the designation of these areas as vulnerable marine ecosystems. In the event that new information is not available at the time of the Fisheries Commission meeting in September 2011, prepare an overview of the type of information that will be available and the timeline for completion.

14. Noting the response from the Scientific Council in June 2010 regarding simulation modeling in a GIS framework: "To apply this model to the NRA, an agreed upon set of gear descriptions and tow duration/lengths for each fishing fleet segment would need to be created. Further estimation of retention efficiencies of the different commercial gears and indirect effects of fishing will be needed to model effects of serious adverse impacts."

The Fisheries Commission requests that the Scientific Council: 1) acquire the requisite data and apply the model to the extent possible to the NRA, and 2) consider whether the SASI model used by the US New England Fisheries Council should be incorporated into the aforementioned GIS framework as a means of integrating significant adverse impacts into the approach.

15. Recognizing the initiatives on vulnerable marine ecosystems (VME) through the work of the WGFMS, and with a view to completing and updating fishery impact assessments, the Scientific Council is requested to provide the Fisheries Commission at its next annual meeting in 2011: 1) guidance on the timing and frequency of fishing plans/assessments for the purpose of evaluating significant adverse impacts on VMEs; 2) a framework for developing gear/substrate impact assessments to facilitate reporting amongst the Contracting Parties.

Annex1 - Additional guidance in regards to questions 1 and 2.

Mindful of the desire to move to a risk-based approach in the management of fish stocks, Fisheries Commission requests the Scientific Council to provide a range of management options as well as a risk analysis for each option as outlined in the provisions below, rather than a single TAC recommendation.

- 1. The Fisheries Commission request the Scientific Council to consider the following in assessing and projecting future stock levels for those stocks listed above. These evaluations should provide the information necessary for the Fisheries Commission to consider the balance between risks and yield levels, in determining its management of these stocks:
 - 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 catch 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 F₂₀₁₀ in 2012 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 catch options evaluated in the way described above to the extent possible. In this case, the level of fishing effort or fishing mortality (F) required to take two-thirds MSY catch in the long term should be calculated.
 - 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, defined in relation to both long-term productivity regimes, and current productivity regimes to the extent these may differ. In those cases where present spawning stock size is a matter of scientific concern in relation to the continuing reproductive potential of the stock, 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 catches implied by these management strategies for the short and the long term in the following format:
 - I. For stocks for which analytical-type assessments are possible, graphs should be provided of all of the following for the longest time-period possible:
 - historical yield and fishing mortality;
 - spawning stock biomass and recruitment levels;
 - catch options for the year 2012 and subsequent years over a range of fishing mortality rates (for as many years as the data allow)
 - (F) at least from F_{0.1} to F_{max};
 - spawning stock biomass corresponding to each catch option;
 - yield-per-recruit and spawning stock per recruit values for a range of fishing mortalities.
 - II. For stocks for which advice is based on general production models, the relevant graph of production as a function of fishing mortality rate or fishing effort should be provided. Age aggregated assessments should also provide graphs of all of the following for the longest time period possible:
 - exploitable biomass (both absolute and relative to B_{MSY})
 - yield/biomass ratio as a proxy for fishing mortality (both absolute and relative to F_{MSY})
 - estimates of recruitment from surveys, if available.

- III. Where analytical methods are not attempted, the following graphs should be presented, for one or several surveys, for the longest time-period possible:
 - time trends of survey abundance estimates, over:
 - an age or size range chosen to represent the spawning population
 - an age or size-range chosen to represent the exploited population
 - recruitment proxy or index for an age or size-range chosen to represent the recruiting population.
 - fishing mortality proxy, such as the ratio of reported commercial catches to a measure of the exploited population.

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

- 2. Noting the Precautionary Approach Framework as endorsed by Fisheries Commission, the Fisheries Commission requests that the Scientific Council provide the following information for the 2011 Annual Meeting of the Fisheries Commission for all stocks under its responsibility requiring advice for 2012:
 - a) the limit and precautionary reference points as described in Annex II of the UN Fisheries Agreement indicating areas of uncertainty (for those stocks for which precautionary reference points cannot be determined directly, proxies should be provided);
 - b) the stock biomass and fishing mortality trajectory over time overlaid on a plot of the PA Framework (for those stocks where biomass and/or fishing mortality cannot be determined directly, proxies should be used);
 - information regarding the current Zone the stock is within as well as proposals regarding possible harvest strategies which would move the resource to (or maintain it in) the Safe Zone, including medium term considerations and associated risk or probabilities which will assist the Commission in developing the management strategies described in paragraphs 4 and 5 of Annex II in the Agreement.
- 3. The following elements should be taken into account by the Scientific Council when considering the Precautionary Approach Framework:
 - a) 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 associated with crossing the reference point such as recruitment overfishing, impaired recruitment, etc.
 - c) When a buffer reference point is identified in the absence of a risk evaluation 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.
 - 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 maintaining the stock within, or moving it to, the Safe Zone. Whenever possible, this information should be cast in terms of risk assessments relating fishing mortality rates to the trends in biomass (or spawning biomass), 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}.

Annex 6. Quota Table 2011 and Effort Allocation Scheme 2011

QUOTA TABLE. Total allowable catches (TACs) and quotas (metric tons) for 2011 of particular stocks in Subareas 1-4 of the NAFO Convention Area.

The values listed include quantities to be taken both inside and outside the 200-mile fishing zone, where applicable.

Species			od		Redfish						American plaice		
Division/Contracting Party	3L	3M	% of 3M Cod TAC	3NO	3LN	% of 3LN Redfish TAC	3M	30	Sub-Area 2 and Div. 1F+3K	3LNO	ЗМ	3LNO	
Canada		80	0.80	0	2556	42.60	500	6000	385 ^{2,4}	0	0	16575 ⁵	
Cuba		370	3.70	-	588	9.80	1750		385 ^{2,4}	-	-	-	
Denmark (Faroe Islands and Greenland)		2235	22.35	-	-		69 ¹⁹		9627 ^{2,3}	-	-	-	
European Union		5703 ²⁵	57.03	0 ¹¹	1094 ²⁶	18.23	7813 ¹²	7000	9627 ^{2,3} 2503 ^{2,15}	0	0 ¹¹	-	
France (St. Pierre et Miquelon)		-		-	-		69 ¹⁹		385 ^{2,4}	-	-	340 ⁵	
Iceland		-		-	-		-		9627 ^{2,3}	-	-	-	
Japan		-		-	-		400	150	385 ^{2,4}	-	-	-	
Korea		-		-	-		69 ¹⁹	100	385 ^{2,4}	-	-	-	
Norway		925	9.25	-	-		-		9627 ^{2,3}	-	-	-	
Russian Federation		647	6.47	0	1726	28.77	9137	6500	9627 ^{2,3}	-	0	-	
Ukraine								150	385 ^{2,4}				
United States of America		-		,	-		69 ¹⁹		385 ^{2,4}	-	-	-	
Others		40	0.40	0	35	0.60	124	100	-	0	0	85 ⁵	
TOTAL ALLOWABLE CATCH	* 9	10000 ²³	100.0	*9,20	6000 ^{16,24}	100.0	10000 ⁸	20000	12516 ^{10,17}	*21	*9	17000 ^{21,22}	

Species	Wi	itch	White hake	Capelin	Skates	Greenland halibut	Squid (Illex) ¹	Shrii	mp
Division/Contracting Party	3L	3NO	3NO	3NO	3LNO	3LMNO	Sub-areas 3+4	3L	3NO
Canada		0	1765	0	2000	1910	N.S. ⁶	15991	
Cuba		-		0		-	510	214	
Denmark (Faroe Islands and Greenland)		-		-		221	-	214	
European Union		011	3529	0 ¹¹	7556	7466 ¹⁸	N.S. ⁶ 611 ¹³	1069 ¹⁴	
France (St. Pierre et Miquelon)		-		-		208	453	214	
Iceland		-		-		-	-	214	
Japan		-		0		1305	510	214	
Korea		-		-		-	453	214	
Norway		-		0		-	-	214	
Russian Federation		0	353	0	2000	1624	749	214	
Ukraine						-		214	
United States of America		-		-		-	453	214	
Others		0	353	_	444	07	794	0	
TOTAL ALLOWABLE CATCH	*9,20	*8	6000	*16,9	12000	12734	34000 ²⁰	19200 ²⁷	*9

* Ban on fishing in force.

The Executive Secretary shall notify without delay all Contracting Parties the dates on which accumulated reported catch taken by vessels of Contracting Parties estimated equal to 50% and then 100% of that allocation.

4. Quota to be shared by vessels from Canada, Cuba, France (St. Pierre et Miquelon), Japan, Korea, Ukraine and USA.

5 Contracting Parties shall inform the Executive Secretary before 01 December 2010 of the measures to be taken to ensure that total catches do not exceed the levels indicated.

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 (= 29.458 tons).

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.

Quota to be shared by vessels from Denmark (Greenland and Faroe Islands), European Union, Iceland, Norway and Russia. Catches in the NAFO Convention Area shall be deducted from the quotas allocated in the NEAFC Convention Area.

- In 2005, the previous 935 t "Others" quota was assigned to three Contracting Parties. When the TAC exceeds 30,000 t the next 1,300 t beyond 30,000 will be allocated to an Others quota which can be accessed by those who do not hold Greenland halibut allocation. In deciding the relevant contributions of Contracting Parties to the 1,300 t Others quota, the Fisheries Commission will take into account the fact that some Contracting Parties received a benefit from the 935 t quota which was reassigned in 2005.
- Not more than 5000 tons may be fished before 01 July 2011. 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% of the TAC.
- The provisions of Article 12, paragraph 1.b) of the Conservation and Enforcement Measures shall apply.
- 10. In the case of the NEAFC decision which modifies the level of TAC in 2011 as compared to 2010, these figures shall be accordingly adjusted by NAFO and formalized through a mail vote.
- 11. Including fishing entitlements of Estonia, Latvia, and Lithuania following their accession to the European Union and in accordance with sharing arrangements of the former USSR quota adopted by the Fisheries Commission at its Annual Meeting in 2003 (FC Working Paper 03/7).
- 12. Including allocations of 1571 tonnes each for Estonia, Latvia and Lithuania out of a sharing of 20,000 tonnes, following their accession to the European Union.
- 13. Allocations of 128 tonnes each for Estonia, Latvia and Lithuania as well as 227 tonnes for Poland out of a TAC of 34,000 tonnes, following their accession to the European Union.
- 14. Including allocations of 214 tonnes each for Estonia, Latvia, Lithuania and Poland out of a TAC of 19,200 tonnes, following their accession to the European Union.
- ^{15.} Allocation of 2,234 tonnes for Lithuania and 269 tonnes to Latvia following their accession to the European Union.
- ^{16.} Applicable to 2011 and 2012.
- 17. The quota shares in footnotes 4 and 15 can only be fished in the NAFO Regulatory Area. If an increase in the overall TAC as defined in footnote 10 leads to an increase in these shares, the first 500 tonnes of that increase shall be added to the quota share referred to in footnote 4.
- 18. Including an allocation of 418 tonnes for Estonia, Latvia, and Lithuania following their accession to the European Union.
- Notwithstanding the provisions of footnote 8 and without prejudice to future agreements on allocations, these quotas may be fished in their entirety by these Contracting Parties.
- ^{20.} Applicable until at least 2013.
- In lieu of Article 12.1 (a) and (b) of the CEM, the following by-catch provisions for American plaice only in the 3LNO yellowtail fishery shall apply: Contracting Parties fishing for yellowtail flounder allocated under the NAFO allocation table will be restricted to an overall Am. plaice by-catch harvest limit equal to 13% of their total yellowtail fishery as calculated in accordance with Article 12.1 (c). For 2010, the by-catch percentage will increase to 15% unless a Scientific Council projection indicates that this rate is likely to undermine stock recovery or cause an unreasonable delay in reaching B_{lim}, in which case the increase may be subject to a reassessment by the Fisheries Commission.
- ^{22.} Following the NAFO annual meeting and prior to January 1 of the succeeding year, at the request of the USA, Canada will transfer 1000 tonnes of its 3LNO yellowtail quota to the USA.
- 23. The allocation key of this stock is based on the 1998 Quota Table. In 1999, a moratorium on cod in Division 3M was declared.
- 24. The allocation key of this stock is based on the 1997 Quota Table. In 1998, a moratorium on redfish in Division 3LN was declared.
- 25. Including fishing entitlements of 111 tons each for Estonia, Latvia, and Lithuania in accordance with sharing arrangements of the former USSR quota adopted by the Fisheries Commission at its Annual Meeting in 2003 (FC Working Paper 03/7) and allocation of 380 tons for Poland following their accession to the European Union.
- ^{26.} Including fishing entitlements of 297 tonnes each for Estonia, Latvia, and Lithuania in accordance with sharing arrangements of the former USSR quota adopted by the Fisheries Commission at its Annual Meeting in 2003 (FC Working Paper 03/7) following their accession to the European Union.
- For 2012, the TAC will be reduced to 17,000 tonnes. This TAC will be reviewed based on available Scientific Council advice on this stock.

Annex I.B Effort Allocation Scheme for Shrimp Fishery in the NAFO Regulatory Area Div. 3M, 2011

CONTRACTING PARTY	Number of fishing days ¹	Number of vessels ¹
Canada	0	0
Cuba	0	0
Denmark		
Faroe Islands	0	0
Greenland	0	0
European Union	0	0
France (in respect of St Pierre et Miquelon)	0	0
Iceland	N/A	N/A
Japan	0	0
Korea	0	0
Norway	0	0
Russia	0	N/A
Ukraine	0	0
USA	0	0

¹ When the scientific advice estimates that the stock shows signs of recovery, the fishery shall be re-opened in accordance with the effort allocation key in place for this fishery at the time of the closure.

Annex 7. By-catch Requirements - NAFO CEM - Article 12

(FC WP 10/20 now FC Doc. 10/10)

Article 12(1)(d) introduces a new way to manage the COD 3M and RED 3 LN fisheries, by inviting CP which have been granted a quota to decide on a date, in advance of the exhaustion of the quota, from which the species can no longer be fished under a directed fishery. After this date the species may only be retained on board as a by-catch, within the limits laid down, up to the completion of the quota.

By merging by-catch and directed fishery provisions for CP fishing for their entitled quota, Article 12(1)(d) creates confusion by introducing a system which is hardly workable in practice, with no added value from the normal quota take up procedure. It also favours discards of both species.

Proposed Amendment

Article 3 – Article

2. Each Contracting Party to which a quota has been allocated shall close its fishery in the Regulatory Area for the stocks listed in Annex I.A on the date on which the accumulated reported catch, the estimated unreported catch, the estimated quantity to be taken before the closure of the fishery and the likely by-catches during the period to which the quota applies, equal 100 percent of the quota allocated to that Contracting Party. Such Contracting Party shall promptly notify the Executive Secretary of the date on which that Party will close its fishery for the stocks concerned. The Executive Secretary shall promptly inform all other Contracting Parties of such notification. Each Contracting Party shall ensure that, after the closure, no more fish of that species is retained on board its vessels, unless otherwise authorized by the measures.

Article 12 - By-Catch Requirements

Delete sub-article 1 (d)

Annex 8. Conservation Plan and Rebuilding Strategy Working Group

(FC Working Paper 10/14, Revised **now** FC Doc. 10/11)

Noting that international agreements such as the United Nations Fish Stocks Agreement (UNFSA) and the FAO Code of Conduct for Responsible Fisheries call for the rebuilding of depleted stocks through application of the precautionary approach;

Further noting that many Contracting Parties have domestic legislation or policies which require the identification of limit reference points and recovery targets;

Recalling that the 3LNO American Plaice stock and 3NO Cod stock have been under long term moratoria;

Further recalling that in 2007 NAFO adopted a Conservation Plan and Rebuilding Strategy for 3NO Cod that identified a limit reference point of 60,000t;

Recognizing that the moratoria have created significant hardships for all Contracting Parties;

Desiring continued recovery and growth of these stocks to ensure their long term sustainability and to promote associated economic opportunities;

Noting that Scientific Council has reported that the Spawning Stock Biomass (SSB) for 3LNO American Plaice and 3NO Cod have been increasing since the moratoria and that these stocks are expected to further approach and possibly exceed B_{lim} in the short or medium term;

Mindful of the desire to allow further recovery and growth of these stocks;

Noting that it is necessary to implement a monitoring programme to ensure that these stocks are achieving rebuilding objectives in future years;

It is proposed that the Fisheries Commission:

1. Establish a Working Group of Fishery Managers and Scientists with the following Terms of Reference:

Terms of Reference

Working Group of Fishery Managers and Scientists on Conservation Plans and Rebuilding Strategies

Structure

Establish a Working Group of Fishery Managers and Scientists, which reports to Fisheries Commission, consults with Scientific Council, and provides recommendations to Fisheries Commission.

The Working Group shall be comprised of fishery managers and scientists from Contracting Parties supported by advisors, as required, up to a maximum of three participants per Contracting Party. The Chair/Vice-chair shall be selected from participating fishery managers and scientists with both a fishery manager and a scientist represented in the two positions.

Consideration shall be given by the Fisheries Commission in 2011 to the continuation or dissolution of the working group.

Objective

- 1. Comprehensive review of the interim 3LNO Am. plaice and the existing 3NO Cod Conservation Plans and Re-Building Strategies.
- 2. Consider risk management approaches in the review, update and future development of Conservation Plans and Rebuilding Strategies.

This work should be presented to Fisheries Commission for consideration at the 2011 Annual General Meeting and possible implementation in January 2012.

Specific Duties

The working group should review and update conservation plans and rebuilding strategies in respect of:

- a) Limit reference points, as provided by Scientific Council, and recovery target(s);
- b) Buffer reference points, developed in the context of precautionary approach framework and in support of robust rebuilding plans;
- c) Timelines or time frames that can reasonably be expected to achieve established targets;
- d) Conditions at which a directed fishery might occur;
- e) Harvest control rules which incorporate target, limit and buffer reference points, as well as, rebuilding timelines or timeframes; and
- f) An implementation strategy which promotes stability in response to natural resource fluctuations that may be expected to occur over the life of the rebuilding plan.

Possible Principles/Elements

In the conduct of its work, the working group may consider the following principles and elements in the development of Conservation Plans and Rebuilding Strategies:

- a) When the stock has recovered beyond Blim, initial TAC levels should be set at conservative levels to allow for continued recovery and growth;
- b) Bycatch should be kept to the lowest possible level and restricted to unavoidable bycatch in fisheries directing for other species when SSB is below Blim;
- c) Interim target(s) for further growth in the stock prior to re-opening;
- d) Long-term rebuilding target (e.g. Bmsy) and associated timelines and/or timeframes;
- e) Harvest strategy, consistent with the Precautionary Approach, which ensure Spawning Stock Biomass remains above Blim;

f) Monitoring and review process for each rebuilding plan to enable Fisheries Commission to assess and revise plans as necessary to ensure rebuilding plan targets are achieved.

The working group may also consider refining these principles/ elements outlined above.

Meetings

The Working Group shall hold its first meeting in advance of the 2011 Meeting of Scientific Council to allow for additional requests for advice.

The Working Group shall communicate regularly through teleconferences and electronically, as required.

A second meeting may be held at the discretion of the Chair.

Annex 9. Working Group on Greenland Halibut Management Strategy Evaluation (WGMSE) Recommendations to Fisheries Commission

(FC Working Paper 10/7, Revision 2 now FC Doc. 10/12)

Recognizing that Contracting Parties agreed in 2003 to implement a fifteen-year rebuilding programme for the Greenland halibut stock in Subarea 2 + Divisions 3KLMNO,

Acknowledging the continued uncertainty of the 2009 assessment for the Greenland halibut stock in Subarea 2 + Divisions 3KLMNO.

Desirous to move forward with a risk management approach for this stock,

Desirous to achieve the objectives of the rebuilding programme,

Recalling that at the 2009 annual meeting of NAFO, the Fisheries Commission established a Working Group to develop a Management Strategy Evaluation (MSE) framework to help inform management of **Greenland halibut in Subarea 2 + Divisions 3KLMNO (FC Doc 09/18)**,

Consistent with its terms of reference, the Working Group considered alternative management strategies with their harvest control rules, selected appropriate performance indicators, defined acceptable levels of risk, and projected/evaluated outputs of the risk management framework utilizing a range of assessment models,

Noting that the Fisheries Commission will consider the report from this Working Group including any recommendations contained therein as the basis for a risk management based decision on the TAC level for 2011 and beyond,

The following recommendations will be forwarded to the Fisheries Commission.

1. Management Strategy Evaluation (MSE)

The Fisheries Commission shall implement an MSE approach for Greenland halibut stock in Subarea 2 + Divisions 3KLMNO.

2. Management Strategy (Harvest Control Rule)

A simple model-free management strategy shall be adopted consistent with NAFO SCR 09/37. The harvest control rule (HCR) will adjust the total allowable catch (TAC) from year (y) to year (y+1), according to:

$$TAC_{v+1} = TAC_v (1 + \lambda x slope)$$

where:

slope = measure of the recent trend in survey biomass. The TAC is subject to constraints on a percentage change from one year to the next.

Two management strategies were put forward for consideration by Fisheries Commission based on the HCR identified above:

	Management Strategy 1	Management Strategy 2
Starting TAC Control Parameter	16, 000 t	17, 500 t
λ if slope is negative	1.25	2.00
λ if slope is positive	1.00	1.00
Constraint on the rule-generated TAC change	± 10%	± 5%

Full details of the application of the management strategies are provided in Annex 1.

Results of these applications are provided in Annex 2.

3. Implementation

The management strategy shall be implemented initially for 4 years. It shall be annually monitored by the Scientific Council to ensure that the data being input into the management strategy is consistent with the MSE process. If exceptional circumstances arise, this shall provide a scientific justification for over-riding the TAC provided by the HCR

Guidelines on how to address exceptional circumstances for adoption by Fisheries Commission in 2011 shall be developed intersessionally by WGMSE with the advice of the Scientific Council.

The Fisheries Commission shall review the progress of this management strategy in four (4) years with advice from Scientific Council.

The FC shall consider undertaking a revision of the Greenland halibut rebuilding programme to reflect the implementation of the Management Strategy.

The WGMSE will remain in place at least until 2011 to allow for further refinement of the MSE following initial implementation.

Annex 1. Application of the management strategies

The management strategy to calculate the TAC for year y+1 is defined by the following formulae:

$$TAC_{y+1}^* = Z_y (1 + \lambda_y slope_y)$$
where
$$Z_y = \begin{cases} Z & y = 2010 \\ TAC_y^* & y \ge 2011 \end{cases}$$

$$\lambda_y = \begin{cases} \lambda_u & slope_y > 0 \\ \lambda_d & slope_y \le 0 \end{cases}$$

and where

if
$$TAC_{y+1} - TAC_y > TAC_y(1+x\%)$$
 then $TAC_{y+1} = TAC_y(1+x\%)$
if $TAC_{y+1} - TAC_y < TAC_y(1-y\%)$ then $TAC_{y+1} = TAC_y(1-y\%)$

where Z, λ_u , λ_d , x and y are control parameters to be selected.

For the MP selected the values of the control parameters are:

$$Z$$
 16 000 t or 17 500 t λ_u 1.00 or 1.00 λ_d 1.25 or 2.00 x 0.10 or 0.05 y 0.10 or 0.05

The quantity $slope_y$ is calculated as follows:

For each survey, linearly regress $\ln I_y^i$ vs year y' for y'=y-5 to y'=y-1, to yield a regression slope value $slope_y^i$, an average of the slopes is taken to provide a composite value:

$$slope_{y} = \left(slope_{y}^{CanFall} + slope_{y}^{CanSpring} + slope_{y}^{EU(0-1400m)}\right) / 3$$

where I_{y} is the survey biomass result in terms of mean weight per tow of fish for all ages.

 ${\bf Annex~2.~Performance~statistics~(medians)~for~two~Management~Strategies~as~averaged~over~the~SCAA-~and~the~XSA-~conditioned~operating~models}$

	SCAA	average	XSA average		
	MS 1 (mp01)	MS 2 (mp14 (+-	MS 1 (mp01)	MS 2 (mp14 (+-	
		5%))		5%))	
C ₂₀₁₁₋₂₀₁₅	13374	15766	14800	16400	
$C_{2016-2020}$	13566	15827	19600	19100	
$C_{2011-2030}$	14335	16195	23100	21400	
B ₂₀₁₁₋₂₀₁₅	91530	89361	69446	66588	
B ₂₀₁₆₋₂₀₂₀	107715	103211	131854	128102	
B ₂₀₁₁₋₂₀₃₀	117766	113381	127975	127612	
$B_{2011-2015}/B_{2011}$	1.05	1.03	1.04	1.02	
$B_{2016-2020}/B_{2011}$	1.26	1.20	1.98	1.98	
$B_{2011-2030}/B_{2011}$	1.36	1.31	1.93	1.97	

Annex 10. Interim 3LNO American Plaice Conservation Plan and Rebuilding Strategy

(FC Working Paper 10/13, Revised now FC Doc. 10/13)

- The objective of this Conservation Plan and Rebuilding Strategy is to achieve and to maintain the 3LNO Am. plaice SSB at or above Bmsy. It may reasonably be expected that Blim will be reached within the period 2011-2017.
- 2. The following reference points apply:
 - (a) Limit reference point for spawning stock biomass (Blim) 50,000t
 - (b) On an interim basis and in the absence of risk analysis, Bbuf 100,000t
 - (c) Limit reference point for fishing mortality (Flim which is \leq Fmsy) 0.4
 - (d) Target reference point for spawning stock biomass Bmsy 175,000t
- 3. A directed fishery should only occur when SSB is above Blim and with a TAC set at a fishing mortality rate of < 0.15 that provides for an SSB trajectory for the subsequent 3-year period to remain positive.
- 4. Subject to paragraph 3, harvest control rules follow:
 - (a) When SSB is below Blim (50,000t), no directed fishing and by-catch should be restricted to unavoidable by-catch in fisheries directing for other species
 - (b) When SSB is between Blim and Bbuf (50,000 100,000t), TAC levels should be set at a level to allow for continued recovery and growth with low probability of declining below Blim, with F not to exceed <0.15.
 - (c) When SSB is above Bbuf (100,000t), TAC levels should be set to allow for continued growth, subject to natural fluctuations that may be expected to occur, with F not to exceed 0.2 (F0.1)
 - (d) When SSB is above Bmsy (175,000t), TAC levels may be set at $F < \frac{3}{4}$ Fmsy
- 5. To provide stability, TACs should be set at levels that achieve an agreed positive SSB trajectory over the subsequent 3 year period, consistent with the objective outlined in Paragraph 1.
 - (a) Annual TAC's should promote positive change or mitigate declines in SSB when it is below Bmsy.
 - (b) If the SSB is above Bbuf, TAC should utilize a risk neutral (50% or better probability) approach to projections and utilize a more risk adverse approach to decline if the SSB is below the Bbuf.

This interim plan will be reviewed and updated by the Working Group of Fishery Managers and Scientists on Conservation Plans and Rebuilding Strategies.

Annex 11. 2010 Recommendations from the ad hoc Working Group of Fishery Managers and Scientists (WGFMS) to the Fisheries Commission

(FC Working Paper 10/2, Revised **now** FC Doc. 10/27)

Following the Terms of Reference outlined in FC Doc 09/19, the WGFMS met in Halifax in May 2010 (FC Doc 10/4) and agreed on the following recommendations:

1) Data Collection in Exploratory and Existing Fishing Areas

The WGFMS recommends to the Fisheries Commission the **adoption** of the revised Exploratory Fishery Data Collection Form as Annex XXV.III of the NAFO Conservation and Enforcement Measures (Annex 1).

The WGFMS recommends to the Fisheries Commission the **adoption** of the proposal to revise Article 5bis paragraph 1b first indent and Article 5bis paragraph 2b first indent concerning data collection requirements in existing and new fishing areas. The proposed revisions are contained in FCWGFMS WP 10/5, Rev. 3 and presented in Annex 2.

2) Fishing Footprint

The WGFMS recommends to the Fisheries Commission the **adoption** of the footprint as described in Annex 3. The footprint is to be used and interpreted in conjunction with Article 2bis of the NAFO Conservation and Enforcement Measures (NCEM).

3) Chapter Ibis update

The WGFMS recommends to the Fisheries Commission the **adoption** of the proposed editorial changes in Chapter Ibis of the NCEM. The proposed changes are detailed in FCWGFMS 10/4 Rev. 1 and presented in Annex 4.

4) Review of Fishery Assessment Guidelines (Article 4bis of the NCEM)

The WGFMS recommends to the Fisheries Commission the **consideration** of the issues raised in FCWGFMS WP 10/2 Rev. 2 and presented in Annex 5. The issues relate to Article 4bis of the NCEM.

Article 4bis concerns the assessment of bottom fishing. There is currently no guiding document to inform Contracting Parties as to what needs to be included in the assessment. Annex 5 clarifies the assessment process and what should be addressed in an assessment.

Annex 1. Exploratory Data Collection Form

		Exp	olora	tory	Fishery	/ D	ata	C	ollec	tion	Fori	m			
A. Fishing	A. Fishing Trip Information														
Flag state			Vessel Name			Ca	all sign				of encour				
B. Gear an	3. Gear and Fishing Information (use separate form for each gear).														
Fishing Gear trawl, gill net hook and line	.,			Gear Details:	Gear type (e Gear size (gr Other detail	ounc	drope l	ength,	panel leng	th, etc.)					
			hr	min		de	egrees		mi	nutes			me	ters	\neg
Tow or Set	Start:	GMT Time:			Latitude Longitude	N W						Depth			
Tow or Set	End:	GMT Time:			Latitude Longitude	N W						Depth			
C. Catch In	ıformat	ion * _{Do}	n't leave	blank. Ind	icate zero catch	if ne	cessary	.							
Live Cora weight in t		kg)*						onges t in the h	otal naul (kg)*						
Organisms		d to the lowes Include fish a			s possible**			Biolo Sam tak yes	_	Biolog sample Vulner Indica Species t yes	es of able ator		eight (kg) atch	Weigis est mate actu Tick of Act.	ti e or ial? one.
D. Comme	ents														

^{**}Refer to Annex I of the FAO International Guidelines for the Management of Deep-Sea Fisheries in the High Seas. Also, use NAFO Coral Identification Guide as appropriate.

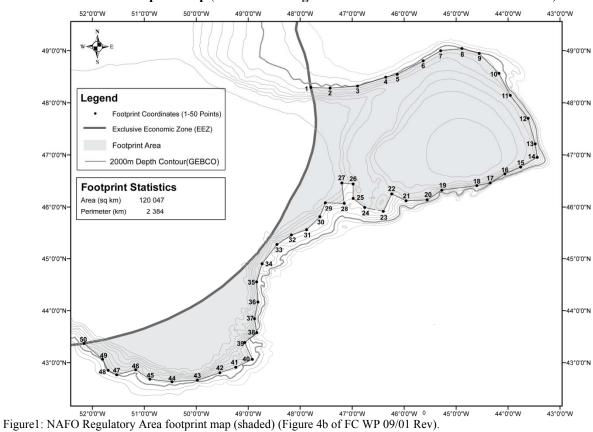
Annex 2. Data Collection Requirements in Existing and New fishing Areas (FCWGFMS WP 10/5, Rev. 3)

Article 5bis. Para 1b, First indent:

- The vessel master shall report the incident to the flag state, which without delay shall forward the information to the Executive Secretary, including the position that is provided by the vessel, either the end point of the tow or set or another position that is closest to the exact encounter location, the VME indicator species encountered, and the quantity (kg) of VME indicator species encountered. Contracting Parties may if they so wish require their vessels to also report the incident directly to the Executive Secretary. The Executive Secretary shall archive the information and report it to all Contracting Parties. The Contracting Parties shall immediately alert all fishing vessels flying their flag.

Article 5bis, Para 2b, first indent:

- The vessel master shall report the incident without delay to its flag state, which shall forward the information to the Executive Secretary, including the position that is provided by the vessel, either the end point of the tow or set or another position that is closest to the exact encounter location, the VME indicator species encountered, and the quantity (kg) of VME indicator species encountered. Contracting Parties may if they so wish require their vessels to also report the incident directly to the Executive Secretary. The Executive Secretary shall archive the information and without delay transmit it to all Contracting Parties. The Contracting Parties shall issue an immediate alert to all vessels flying their flag.



Annex 3. Footprint map (extraction of Figure 4b and Table 2 from FC WP 09/01 Rev).

Point No.	Latitude	Longitude
1	48°17'39"N	EEZ boundary ¹
2	48°16'51"N	47°25'37"W
3	48°19'15"N	46°53'48"W
4	48°29'21"N	46°21'17"W
5	48°32'43"N	46°08'04"W
6	48°48'10"N	45°37'59"W
7	48°59'54"N	45°17'46"W
8	49°02'20"N	44°53'17"W
9	48°56'46"N	44°33'18"W
10	48°33'53"N	44°10'25"W
11	48°08'29"N	43°57'28"W
12	47°42'00"N	43°36'44"W
13	47°12'44"N	43°28'36"W
14	46°57'14"N	43°26'15"W
15	46°46'02"N	43°45'27"W
16	46°38'10"N	44°03'37"W
17	46°27'43"N	44°20'38"W
18	46°24'41"N	44°36'01"W
19	46°19'28"N	45°16'34"W
20	46°08'16"N	45°33'27"W
21	46°07'13"N	45°57'44"W
22	46°15'06"N	46°14'21"W
23	45°54'33"N	46°24'03"W
24	45°59'36"N	46°45'33"W
25	46°09'58"N	46°58'53"W

Point No.	Latitude	Longitude
26	46°26'32"N	46°58'53"W
27	46°27'40"N	47°12'01"W
28	46°04'15"N	47°09'10"W
29	46°04'53"N	47°31'01"W
30	45°48'17"N	47°37'16"W
31	45°33'14"N	47°52'41"W
32	45°27'14"N	48°10'15"W
33	45°16'17"N	48°26'50"W
34	44°54'01"N	48°43'58"W
35	44°33'10"N	48°50'25"W
36	44°09'57''N	48°48'49''W
37	43°50'44"N	48°52'49"W
38	43°34'34"N	48°50'12"W
39	43°23'13"N	49°03'57"W
40	43°03'48"N	48°55'23"W
41	42°54'42"N	49°14'26''W
42	42°48'18"N	49°32'51"W
43	42°39'49"N	49°58'46"W
44	42°37'54"N	50°28'04"W
45	42°40'57"N	50°53'36"W
46	42°51'48"N	51°10'09"W
47	42°45'59"N	51°31'58"W
48	42°51'06"N	51°41'50"W
49	43°03'56"N	51°48'21"W
50	43°22'12"N	EEZ boundary ²

¹ approximately 47°47'45"W ² approximately 52°09'46"W

Table 1: Boundary points delineating the eastern side of the footprint in the NRA. The Canadian EEZ boundary delineates the western side of the footprint map (Table 2 of FC WP 09/01 Rev).

(FCWGFMS WP 10/4, Rev. 1)

Review and update of Chapter Ibis of the NAFO CEM (Proposal by the USA and the EU)

Changes proposed without taking into consideration the work carried out by STACTIC in relation to revision of the NAFO CEM control provisions.

Track changes: House cleaning, with reference to point 3 in the proposal adopted by FC at the annual meeting in 2009, Doc. 09/19

<u>Highlighted in yellow: Text to be updated only in the event that the FC adopts the fishing footprint at the NAFO annual meeting 2010</u>

Chapter Ibis BOTTOM FISHERIES IN THE NAFO REGULATORY AREA

Article 1bis – Purpose and definitions

- 1. The purpose of this chapter is to ensure the implementation by NAFO of effective measures to prevent significant adverse impacts of bottom fishing activities on vulnerable marine ecosystems known to occur or likely to occur in the Regulatory Area based on the best available scientific information. For the purposes of this Chapter, NAFO will take into account the guidance provided by the FAO in the framework of the Code of Conduct for Responsible Fisheries and any other internationally agreed standards, as appropriate.
- 2. The term 'bottom fishing activities' means bottom fishing activities where the fishing gear is likely to contact the seafloor during the normal course of fishing operations.
- 3. The term "existing bottom fishing areas" initially means areas where VMS data and/or other available georeference data indicating bottom fishing activities have been conducted at least in two years within a reference period of 1987 to 2007. This shall be revised regularly in accordance with Article 2bis.4.
- 4. The term "new bottom fishing areas" means all other areas within the Regulatory Area which are not defined as existing bottom fishing areas, including waters deeper than 2000 metres.
- 5. The term "vulnerable marine ecosystems" has the same meaning and characteristics as those contained in paragraphs 42 and 43 of the FAO International Guidelines for the Management of Deep-Sea Fisheries in the High Seas.
- 6. The term "significant adverse impacts" has the same meaning and characteristics as those described in paragraphs 17-20 of the FAO International Guidelines for the Management of Deep-Sea Fisheries in the High Seas.

Article 2bis - Identification Map of existing bottom fishing areas (footprint)

- In 2008, NAFO shall proceed to map existing bottom fishing areas within the Regulatory Area for bottom
 fishing activities. Mapping of trawling activity shall be given priority.
- 2. Contracting Parties with vessels involved in bottom fishing activities in the period of 1987-2007 shall, for the purpose of paragraph 1, submit during 2008 comprehensive maps of existing fishing areas to the Executive Secretary. Maps shall be based on VMS data and/or other available geo reference data and expressed in as precise spatial and temporal resolution as possible. Contracting Parties may, in the future, consider the possibility of refining these maps on the basis of haul by haul information, if available.
- 3. The Executive Secretary shall compile maps submitted by Contracting Parties pursuant to paragraph 2. The Executive Secretary shall on that basis, as well as on any data available to it, produce a comprehensive map of existing fishing areas. The Executive Secretary shall forward this map to the Scientific Council for review and comment at its meeting in September 2008 and thereafter to the Fisheries Commission.

The comprehensive map of existing bottom fishing areas referred to in paragraph 3produced by the Executive Secretary (reference to ANNEX), based on information submitted by Contracting Parties,-shall be revised

regularly to incorporate any new relevant information. <u>Contracting Parties may</u>, in the future, <u>consider the possibility of refining the comprehensive map on the basis of haul by haul information</u>, if available. (existing text from paragraph 2)

Article 3bis - Bottom fishing activities in new fishing areas

- From 1 January 2009, aAll bottom fishing activities in new fishing areas or with bottom gear not previously used in the area concerned, shall be considered as exploratory fisheries and shall be conducted in accordance with an-the exploratory fisheries protocol set out in Part IV of Annex XXV to be adopted by the Fisheries Commission in 2008.
- 2. The exploratory bottom fishing shall be subject to the assessment procedure set forth in Article 4bis, with the understanding that particular care will be taken in the evaluation of risks of the significant adverse impact on vulnerable marine ecosystems, in line with the precautionary approach.
- 3. Contracting Parties shall communicate the exploratory fisheries protocol referred to in paragraph 1 to the Executive Secretary for forwarding to the Scientific Council for review and to all Contracting Parties for information, together with the information or preliminary impact assessment referred to in Article 4bis, paragraph 23 (i), below.
- 4. Contracting Parties shall provide promptly a report of the results of such activities to the Executive Secretary for circulation to the Scientific Council and all Contracting Parties.
- 5. Prior to commencing new bottom fishing activities based upon the results of exploratory fisheries conducted in the prior two years, the Fisheries Commission shall review the assessments undertaken in accordance with Article 4bis below and the results of the fishing protocols implemented by the participating fleets, and shall:
 - establish conservation and management measures to prevent significant adverse impacts on vulnerable marine ecosystems from individual fishing activities and to ensure the long-term sustainability of deep sea fish stocks, or
 - ii. not authorize these fishing activities to proceed.
- 6. Contracting Parties shall ensure that vessels flying their flag conducting exploratory fisheries are equipped with a satellite monitoring device and have an observer on board.

Article 4bis - Assessment of bottom fishing

- 1. The Scientific Council, with the co-operation of Contracting Parties, shall identify, on the basis of best available scientific information, vulnerable marine ecosystems in the Regulatory Area and map sites where these vulnerable marine ecosystem are known to occur or likely to occur and provide such data and information to the Executive Secretary for circulation to all Contracting Parties.
- Proposed bottom fishing activities in the Regulatory Area for 2009 shall be subject to assessment by the
 Scientific Council in 2008, based on the best available scientific information, to determine if such activities,
 taking account of the history of bottom fishing in the areas proposed, would have significant adverse impacts on
 vulnerable marine ecosystems.
- <u>23</u>. <u>Thereafter, aAssessments for proposed bottom fishing activities in the Regulatory Area</u> shall follow the procedures below:
 - i. Each Contracting Party proposing to participate in bottom fishing shall submit to the Executive Secretary information and an initial assessment, where possible, of the known and anticipated impacts of its bottom fishing activities on vulnerable marine ecosystems, in advance of the next meeting of the Scientific Council. These submissions shall also include the mitigation measures proposed by the Contracting Party to prevent such impacts. The Executive Secretary shall promptly forward these submissions to the Scientific Council and the Fisheries Commission.
 - ii. The submission of such information shall be carried out in accordance with guidance developed by the Scientific Council, or, in the absence of such guidance, to the best of the Contracting Party's ability.

- iii. The Scientific Council shall undertake an assessment, according to procedures and standards it develops, and provide advice to the Fisheries Commission as to whether the proposed bottom fishing activity would have significant adverse impacts on vulnerable marine ecosystems and, if so, whether mitigation measures would prevent such impacts. The Scientific Council may use in its assessment additional information available to it, including information from other fisheries in the region or similar fisheries elsewhere.
- 34. The *ad hoc* Working Group of managers and scientists on VMEs, the terms of reference of which are attached, shall examine the advice of the Scientific Council and shall make recommendations to the Fisheries Commission in accordance with its mandate.
- 45. The Fisheries Commission shall, taking account of advice and recommendations provided by the Scientific Council and the *ad hoc* Working Group of scientists and managers, concerning bottom fishing activities, including data and information arising from reports pursuant to Article 5bis adopt conservation and management measures to prevent significant adverse impacts on vulnerable marine ecosystems, that may include:
 - (a) allowing, prohibiting or restricting bottom fishing activities;
 - (b) requiring specific mitigation measures for bottom fishing activities;
 - (c) allowing, prohibiting or restricting bottom fishing with certain gear types, or changes in gear design and/or deployment; and/or
 - (d) any other relevant requirements or restrictions to prevent significant adverse impacts to vulnerable marine ecosystems.
- 56. Fisheries Commission will periodically ask Scientific Council and the ad hoc working group of managers and scientists on vulnerable marine ecosystems to provide advice to Fisheries Commission on the timing and requirement for assessment of a previously assessed bottom fishery.

Article 5bis - Interim Encounter Provision

Definition of an Encounter – is an encounter, above threshold levels as set out in paragraph 3, with indicator species of coral identified as antipatharians, gorgonians, cerianthid anemone fields, lophelia, and sea pen fields or other VME elements. Any encounter with a VME indicator species or merely detecting the presence of an element itself is not sufficient to identify a VME. That identification should be made on a case-by-case basis through assessment by relevant bodies.

Contracting Parties shall require that vessels flying their flag and conducting bottom fishing activities within the Regulatory Area abide by the following rules, where, in the course of fishing operations, evidence of vulnerable marine ecosystems is encountered:

- 1) Existing fishing areas
 - a) Vessels shall quantify catch of VME indicator species, i.e. coral and sponge.
 - b) if the quantity of VME elements or indicator species caught in a fishing operation (such as trawl tow or set of a gillnet or longline) is beyond the threshold defined in paragraph 3 below, the following shall apply:
 - The vessel master shall report the incident to the flag state, which without delay shall forward the information to the Executive Secretary. Contracting Parties may if they so wish require their vessels to also report the incident directly to the Executive Secretary. The Executive Secretary shall archive the information and report it to all Contracting Parties. The Contracting Parties shall immediately alert all fishing vessels flying their flag.
 - The vessel master shall cease fishing and move away at least 2 nautical miles from the endpoint of the tow/set in the direction least likely to result in further encounters. The captain shall use his best judgment based on all available sources of information.

- The Executive Secretary shall make an annual report on single and multiple encounters in discrete areas within existing fishing areas to the Scientific Council. The Scientific Council shall evaluate and, on a case-by-case basis the information and provide advice to the Fisheries Commission on whether a VME exists. The advice shall be based on annually updated assessments of the accumulated information on encounters and the Scientific Council's advice on the need for action, using FAO guidelines as a basis. The Fisheries Commission shall consider the advice in accordance with Article 4bis, paragraph 45.
- 2) Unfished areas that are defined as 'New fishing areas'
 - a) Vessels shall quantify catch of VME indicator species, i.e. coral and sponge. Observers deployed shall identify corals, sponges and other organisms to the lowest possible taxonomical level. The sampling protocol found in Annex XXV shall be used (templates).
 - b) If the quantity of VME element or indicator species caught in a fishing operation (such as trawl tow or set of a gillnet or longline) is beyond the threshold defined in paragraph 3 below, the following shall apply:
 - The vessel master shall report the incident without delay to its flag state, which shall forward the information to the Executive Secretary. Contracting Parties may if they so wish require their vessels to also report the incident directly to the Executive Secretary. The Executive Secretary shall archive the information and without delay transmit it to all Contracting Parties. The Contracting Parties shall issue an immediate alert to all vessels flying their flag.
 - The Executive Secretary shall at the same time request Contracting Parties to implement a temporary closure of a two mile radius around the reporting position. The reporting position is that provided by the vessel, either the endpoint of the tow/set or another position that the evidence suggests is closest to the exact encounter location.
 - The Scientific Council at its next meeting shall examine the temporary closure. If the Scientific Council advises that the area consists of a vulnerable marine ecosystem the Executive Secretary shall request Contracting Parties to maintain the temporary closure until such time that the Fisheries Commission has acted upon the advice from the Scientific Council in accordance with Article 4bis, paragraph 45 in Chapter Ibis. If the Scientific Council does not conclude that the proposed area is a VME, the Executive Secretary shall inform Contracting Parties which may re-open the area to their vessels.
 - The vessel shall cease fishing and move away at least 2 nautical miles from the endpoint of the tow/set in the direction least likely to result in further encounters. The captain shall use his best judgment based on all available sources of information.
 - The Executive Secretary shall make an annual report on archived reports from encounters in *new fishing areas* to the Scientific Council. This report shall also include reports from the exploratory fishing activities that were conducted in the last year. The Scientific Council shall evaluate the information and provide advice to the Fisheries Commission on the appropriateness of temporary closures and other measures. The advice should be based on annually updated assessments of the accumulated information on encounters as well as other scientific information. The Scientific Council's advice should reflect provisions outlined in the FAO guidelines. The Fisheries Commission shall consider the advice in accordance with Article 4bis, paragraph 45.
- 3) For both existing and new fishing areas, an encounter with primary VME indicator species is defined as a catch per set (e.g. trawl tow, longline set, or gillnet set) of more than 60 kg of live coral and/or 800 kg of live sponge. These thresholds are set on a provisional basis and may be adjusted as experience is gained in the application of this measure.

Article 6bis - Review

The provisions of this chapter shall be reviewed by the Fisheries Commission at its Annual Meeting in 2011. The Commission shall biannually thereafter examine the effectiveness of these provisions in protecting vulnerable marine ecosystems from significant adverse impacts.

ATTACHMENT:

Terms of Reference

Ad Hoc Working Group of Fishery Managers and Scientists on Vulnerable Marine Ecosystems

Structure:

An ad hoc Working Group of Fishery Managers and Scientists on Vulnerable Marine Ecosystems is established in 2008 which reports to the Fisheries Commission, consults with Scientific Council, and provides recommendations to Fisheries Commission.

The Working Group shall be comprised of fishery managers and scientists from Contracting Parties supported by advisors, as required, up to a maximum of three participants per Contracting Party. The Chair/Vice chair shall be selected from participating fishery managers and scientists with both a fishery manager and a scientist represented in the two positions.

Consideration shall be given by the Fisheries Commission in 2010 to the continuation or dissolution of the working group.

Objective:

The main objective of the Working Group is to make recommendations to Fisheries Commission on the effective implementation of measures to prevent significant adverse impacts on vulnerable marine ecosystems.

Specific Duties:

The Working Group shall:

In examining the advice of Scientific Council to Fisheries Commission, evaluate risk and make recommendations on mitigation strategies and measures to avoid significant adverse impacts on vulnerable marine ecosystems, drawing on relevant international information 1.

Develop operational procedures in 2008 in relation to encounters of vulnerable marine ecosystems to prevent significant adverse impacts.

Review and finalize the attached Exploratory Fishery Protocol for new fishing areas including the development of templates for elements of the protocol for adoption by the Fisheries Commission in 2008.

Meetings:

The Working Group will meet at least once annually between the Meeting of Scientific Council and the Annual Meeting of NAFO and shall communicate regularly through teleconferences and electronically, as required.

¹Including but not limited to the pending FAO International Guidelines for the Management of Deep Sea Fisheries in the High Seas

Annex XXV (contd)

IV. Exploratory Protocol for New Fishing Areas

The Exploratory Fishery Protocol for New Fishing Areas shall include consist of:

- A harvesting plan which outlines target species, dates and areas. Area and effort restrictions should be considered to ensure fisheries occur on a gradual basis in a limited geographical area.
- A mitigation plan including measures to prevent significant adverse impact to vulnerable marine ecosystems that may be encountered during the fishery.
- A catch monitoring plan that includes recording/reporting of all species caught, 100% satellite tracking and 100% observer coverage. The recording/reporting of catch should be sufficiently detailed to conduct an assessment of activity, if required.
- A data collection plan to facilitate the identification of vulnerable marine ecosystems/species in area fished.

Exploratory fisheries shall not commence until this information has been provided to the Executive Secretary and forwarded to all Contracting Parties and the Scientific Council for information.

Annex 5. Requirements for bottom fishing assessment (FCWGFMS WP 10/2, Rev. 2)

Proposal for Amendment of Article 4bis of Chapter Ibis

(Proposed by the United States)

Proposal

Article 4bis, paragraph 3.i. would read as follows:

3i. If proposed bottom fishing has not been covered by a previous assessment, or if there are significant changes to the fishery, or in light of new scientific information, the Contracting Party proposing to participate in bottom fishing shall submit to the Executive Secretary information and a preliminary assessment of the known and anticipated impacts of its bottom fishing activities on vulnerable marine ecosystems no less than two weeks in advance of the opening of the annual meeting in June of the Scientific Council. Assessments should address the elements as set forth in Annex XXVbis. The Executive Secretary shall promptly forward these submissions to the Scientific Council and the Fisheries Commission.

Annex XXVbis Assessment of Bottom Fishing Activities

Assessments should address, inter alia:

- 1. Type(s) of fishing conducted or contemplated, including vessels and gear types, fishing areas, target and potential bycatch species, fishing effort levels and duration of fishing (harvesting plan);
- Best available scientific and technical information on the current state of fishery resources and baseline information on the ecosystems, habitats and communities in the fishing area, against which future changes are to be compared;
- 3. Identification, description and mapping of VMEs known or likely to occur in the fishing area;
- 4. Identification, description and evaluation of the occurrence, scale and duration of likely impacts, including cumulative impacts of activities covered by the assessment on VMEs;
- 5. Data and methods used to identify, describe and assess the impacts of the activity, the identification of gaps in knowledge, and an evaluation of uncertainties in the information presented in the assessment;
- 6. Risk assessment of likely impacts by the fishing operations to determine which impacts on VMEs are likely to be significant adverse impacts; and

The proposed mitigation and management measures to be used to prevent significant adverse impacts on VMEs, and the measures to be used to monitor effects of the fishing operations.

Annex 12. Amendment of Article 4bis of Chapter Ibis -Assessment of Bottom Fishing

(FC Working Paper 10/8, Revision 2 now FC Doc. 10/14)

Proposal

Article 4bis, paragraph 3.i. would read as follows:

3i. If proposed bottom fishing is outside of the footprint identified by the Fisheries Commission, or if there are significant changes to the conduct or technology of existing bottom fisheries, or new scientific information indicating a VME in a given area, the Contracting Party proposing to participate in bottom fishing shall submit to the Executive Secretary information and a preliminary assessment of the known and anticipated impacts of its bottom fishing activities on vulnerable marine ecosystems no less than two weeks in advance of the opening of the annual meeting in June of the Scientific Council. Assessments should address the elements as set forth in Annex XXVbis. The Executive Secretary shall promptly forward these submissions to the Scientific Council and the Fisheries Commission.

Annex XXVbis Assessment of Bottom Fishing Activities

Assessments should address, inter alia:

- 1. Type(s) of fishing conducted or contemplated, including vessels and gear types, fishing areas, target and potential bycatch species, fishing effort levels and duration of fishing (harvesting plan);
- 2. Best available scientific and technical information on the current state of fishery resources and baseline information on the ecosystems, habitats and communities in the fishing area, against which future changes are to be compared;
- 3. Identification, description and mapping of VMEs known or likely to occur in the fishing area;
- 4. Identification, description and evaluation of the occurrence, scale and duration of likely impacts, including cumulative impacts of activities covered by the assessment on VMEs;
- 5. Data and methods used to identify, describe and assess the impacts of the activity, the identification of gaps in knowledge, and an evaluation of uncertainties in the information presented in the assessment;
- 6. Risk assessment of likely impacts by the fishing operations to determine which impacts on VMEs are likely to be significant adverse impacts; and
- 7. The proposed mitigation and management measures to be used to prevent significant adverse impacts on VMEs, and the measures to be used to monitor effects of the fishing operations.

Annex 13. Terms of Reference – Working Group of Fishery Managers and Scientists on Vulnerable Marine Ecosystems

(FC Working Paper 10/10, Revised **now** FC Doc. 10/15)

Structure:

Working Group of Fishery Managers and Scientists on Vulnerable Marine Ecosystems reports to the Fisheries Commission, considers the advice of Scientific Council, and provides recommendations to Fisheries Commission.

The Working Group shall be comprised of fishery managers and scientists from Contracting Parties supported by advisors, as required, up to a maximum of three participants per Contracting Party. The Chair/Vice-chair shall be selected from participating fishery managers and scientists with both a fishery manager and a scientist represented in the two positions.

Objective:

The main objective of the Working Group is to make recommendations to the Fisheries Commission on the effective implementation of measures to prevent significant adverse impacts on vulnerable marine ecosystems.

Specific Duties:

In responding to requests for advice and recommendations from the Fisheries Commission, the Working Group shall:

Consider the advice of Scientific Council to Fisheries Commission; evaluate associated risks; and make recommendations on mitigation strategies and measures to avoid significant adverse impacts on vulnerable marine ecosystems, drawing on relevant international guidance¹.

Review area closures, fisheries impact assessments and other measures outlined in the NAFO Conservation and Enforcement Measures (NCEMs) with specific timelines.

Update the text in Chapter I bis of the NCEMs as necessary.

Meetings:

The Working Group will meet as required by the Fisheries Commission. Whenever possible, meetings of the Working Group should occur between the annual June meeting of Scientific Council and the NAFO annual meeting, and shall communicate regularly through teleconferences and electronically, as required.

¹ Including but not limited to the FAO International Guidelines for the Management of Deep-Sea Fisheries in the High Seas

Annex 14. Duration of Inspections

(STACTIC Working Paper 09/20 now FC Doc. 10/16)

The Conservation and Enforcement Measures, Chapter IV Joint Inspection and Surveillance Article 33 9 - Inspection Procedure currently states that the duration of an inspection shall not exceed (3) hours. Operational experiences have demonstrated that the (3) hour requirement can restrict inspectors in the time needed to complete a thorough and detailed inspection. Furthermore, in the context of joint patrols it would be desirable to allow for additional time to facilitate interpretational discussions and coordination necessary to facilitate consensus on inspection results/outcomes.

In addition to the elements described above, the movement to a (4) hour inspection duration would also serve to harmonize with the NEAFC *Scheme for Control and Enforcement* (Article 18.5) which states:

"The duration of an inspection shall not exceed 4 hours, or until the net is hauled in and the net and catch are inspected, whichever is longer."

Possible Amendment

Chapter IV – Joint Inspection and Surveillance, Article 33 9, Inspection Procedures as follows:

9. The duration of an inspection shall not exceed three <u>four</u> hours, or until the net is hauled in and the net and catch are inspected, whichever is longer. This time limitation shall not apply in the case of an infringement.

Annex 15. Inspection Party Composition – Article 33(4)

(STACTIC Working Paper 10/21, Revision 2 now FC Doc. 10/17)

The current NAFO Conservation and Enforcement Measures (NCEM's), Article 33, explicitly calls for an inspection party to consist of "at a maximum two inspectors", with the possibility of a third member if it is an inspection trainees and only where vessel conditions permit.

Given that the measures already allow for the possibility of a three member inspection party and that allowing the third member, previously only an inspection trainee, to be a regular inspector would provide additional flexibility to those Contracting Parties that conduct inspections under the NCEMs, it would seem appropriate, especially in the context of tight inspection duration timeframes, to sanction the use of an additional inspector were warranted.

Furthermore, recent joint inspections, conducted with the USCG, also lend further credence to allow for an additional inspector to facilitate this type of joint activity and not force Contracting Parties with inspection vessels in the NRA to rotate between its own inspectors and that of a guest Contracting Party, but rather to allow a fully effective and multinational inspection party.

It should also be noted that the NEAFC *Scheme of Control and Enforcement*, Article 18.6, places no actual limit on the number of inspection party members, rather only limits the number of inspectors from each NEAFC Contracting Party, when inspecting the vessel of another Contracting Party.

Possible Amendment

Proposal – Amend Chapter IV – Joint Inspection and Surveillance Scheme, Article 33, Inspection Procedure.

Replace the current text of Article 33(4) with the following:

4. An inspection party shall consist of at maximum four inspectors. An inspection trainee may accompany the inspection party for training purposes only, however the inspection trainee counts against the inspection party maximum of four. In such circumstances, the inspection party shall, upon arrival on board, identify the trainee to the master of the fishing vessel. This trainee shall simply observe the inspection operation conducted by the authorized inspectors and shall in no way interfere with the activities of the fishing vessel.

Annex 16. Chartering Arrangements

(STACTIC Working Paper 10/8, Revision 2 now FC Doc. 10/18)

It is noted that when a vessel engaged in a chartering arrangement is boarded at sea, inspectors do not know the information notified to the Secretariat regarding the chartering arrangement.

It is requested to adopt a provision allowing the inspectors at sea to be provided with the information related to the chartering arrangement when boarding a chartered vessel.

Possible amendment

Add the following sentence at the end of Article 19 (9):

The flag State of the chartered vessel shall provide a copy of the documentation referred to in this paragraph to the chartered vessel, to be carried on board.

Annex 17. Daily Communication of Catches NAFO CEM Article 27 + Annex X and Annex XXII

(STACTIC Working Paper 10/9, Revision 5 now FC Doc. 10/19)

It is noted that a lack of clarity in some technical issues related to the communication of catches under Article 27 create confusion and do not allow an automated process of data for quota up-take and control. These are:

- o the "CAT" reference, which is currently used for 3 different type of communication: weekly; daily and for the cross of boundary 3L (for PRA)
- o the aggregation of the catch per species inside of a stock area in the weekly CAT message
- o the option to choose the period for communicating aggregated catch reports
- o the lack of specific field to declare catch under chartering

It is requested

- o to use the CAT reference only for the daily catch reporting by Division and for all species
- o to abandon the use of weekly catch report
- o to give a specific code (COB) for the cross boundary 3L/3M messages for shrimp fishery
- o to clarify the requirements defining each data element of the message
- o to specify that the CAT message reports only the catch of the day before, per species and per Division
- o to specify that the COE, COX and COB messages provide cumulative figures only per species, for control/inspection purposes
- o to identify the catch under chartering
- o to adapt Annex X and XXII for clarity

Possible amendments

1. Replace Article 27 §1 under c) and d) by the following text

- c) Catch report. This report shall be on a daily basis and shall include catch of all species of the day preceding the report, including nil catch returns. The report shall be sent each day before 12.00 hours UTC of the day after fishing. This message is identified as CAT.
- d) Catch prior to entry to and exit from 3L. This reports shall be made by vessels that fish shrimp in Division 3L and shall be sent one hour prior to crossing the boundary of Division 3L in entry and in exit. It shall include the requirements in Annex X point 3. This report shall be identified as COB;

2. Replace Article 27 point 3 second paragraph by the following text

The sequence of messages under Article 26 and this article shall be as follows:

Report	Code	Remarks Requirements for the field				
Catch on Entry	COE	6 hours in advance of the vessels entry into the RA				
Entry	ENT	The first position report from a vessel detected to be inside the RA				
Position	POS	Position report every hour				
Catch	CAT	eporting of catches; in a daily basis, for all species by Division				
Cross Boundary	COB	Reporting of catches; prior to crossing the boundary to 3L as appropriate				
Transhipment	TRA	Report on quantities to be on-loaded (receiving vessel) or off-loaded (donor				
		vessel), for each transhipment				
Catch on Exit	COX	6 hours in advance of the vessels departure from the RA				
Exit	EXI	The first position report from a vessel detected to be outside the RA				
Port of Landing	POR	Report (receiving vessel) on catch onboard to be landed, for each landing after				
		transhipment				

3. Modify Annex X in accordance with the following provisions

- a) Point 1: Replace the specified remarks by the following
 - 1) "Catch on ENTRY" Report

Data Element	Field Code	Mandatory/ Optional	Requirements for the field
On board	OB	M	Total round weight of fish by species on board upon entry into the Regulatory Area in kilograms rounded to the nearest 100 kilograms.
			Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space, e.g. //OB/speciesspaceweightspacespeciesspaceweightspacespeciesspaceweightspace//
Directed species	DS	M	Main target species in the Regulatory area. Allow several species to be entered with the value separated by spaces, e.g. //DS/speciesspacespeciesspacespecies//

b) Point 4: Replace the specified remarks by the following Renumber current point 4 as new point 5
45) "Catch on EXIT" Report

Data Element	Field	Mandatory/	Requirements for the field
	Code	Optional	
Catch	CA	M	Activity detail;
			Catch retained onboard by species and by Division since last CAT report in kilograms rounded to the nearest 100 kilograms.
Species			Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space,
Live weight			e.g. //CA/speciesspaceweightspacespecieswspaceeightspacespeciesspaceweightspace//
Catch	OB	M	Activity detail;
			Total round weight of fish by species on board upon exit from the Regulatory Area in kilograms rounded to the nearest 100 kilograms
Species			Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space,
Live weight			e.g. //OB/speciesspaceweightspacespeciesspaceweightspacespeciesspaceweightspace//
Days fished	DF	О	Activity detail; number of fishing days in the Regulatory Area

- c) Point 2: Replace table by the following table
 Add new footnotes 3 and 4 under the table
 - 2) "Catch report"

Data Element	Field Code	Mandatory/ Optional	Requirements for the field
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO
From	FR	M	Message detail; Address of the transmitting party (ISO-3)
Sequence Number	SQ	M	Message detail; serial number in current year

Type of Message	TM	M	Message detail; message type, "CAT" as Daily Catch report		
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel		
Trip Number	TN	О	Activity detail; fishing trip serial number in current year		
Vessel Name	NA	O	Vessel registration detail; name of the vessel		
Contracting Party Internal	IR	0	Vessel registration detail; unique Contracting Party vessel number as ISO-3 flag state code followed by number		
Reference Number					
External Registration Number	XR	0	Vessel registration detail; the side number of the vessel		
Relevant Area	RA	M	Activity detail; NAFO Division		
Latitude	LA	M	Activity detail; position at time of transmission		
Longitude	LO	M	Activity detail; position at time of transmission		
Catch	CA	M	Activity detail;		
			Catch retained onboard by species and by Division since last CAT report in kilograms rounded to the nearest 100 kilograms.		
Species Live weight			Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space, e.g. //CA/speciesspaceweightspacespeciesspaceweightspacespeciesspaceweightspace//		
Chartering Flag	СН	M^3	Flag of Chartering Contracting Party to which the catch must be allocated		
Days Fished	DF	M	Activity detail; number of fishing days in the Regulatory Area since last CAT report, as appropriate ⁴		
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 record		

³ Mandatory if fishing activity under chartering agreement ⁴ By default, the normal reporting period should be 1 day

Point 3: Insert the following table as new point 3 d)

"Catch on crossing Boundary" 3L report (for PRA) 3)

Data Element	Field	Mandatory/	Requirements for the field			
	Code	Optional				
Start record	SR	M	System detail; indicates start of record			
Address	AD	M	Message detail; destination, "XNW" for NAFO			
From	FR	M	Message detail; Address of the transmitting party (ISO-3)			
Sequence	SQ	M	Message detail; serial number in current year			
Number						
Type of	TM	M	Message detail; message type, "COB" for Cross Boundary Catch report			
Message						
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel			
Trip Number	TN	О	Activity detail; fishing trip serial number in current year			
Vessel Name	NA	О	Vessel registration detail; name of the vessel			
Contracting	IR	О	Vessel registration detail; unique Contracting Party vessel number as ISO-3			
Party Internal			flag state code followed by number			
Reference						
Number						
External	XR	0	Vessel registration detail; the side number of the vessel			
Registration						
Number						
Relevant Area	RA	M	Activity detail; NAFO Division entering from			
Latitude	LA	M	Activity detail; position at time of transmission			

Longitude	LO	M	Activity detail; position at time of transmission		
Catch	CA	M	Activity detail;		
Species Live weight			Catch retained onboard by species and by Division since last CAT report in kilograms rounded to the nearest 100 kilograms. Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space, e.g. //CA/speciesspaceweightspacespeciesspaceweightspacespeciesspaceweightspace//		
Area of entry	AE	M	Activity detail; NAFO Division entering into		
Catch	OB	M	Activity detail;		
species live weight			Cumulative catch retained on board by species in kilograms rounded to the nearest 100 kilograms. since commencement of fishing in the Regulatory Area. Allow for several pairs of fields, consisting of species FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space, e.g. //OB/speciesspaceweightspacespeciesspaceweightspacespeciesspaceweightspace//		
Days Fished	DF	O	Activity detail; number of fishing days in the Regulatory Area		
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 record		

e) Renumber current point 3 as new point 4 Replace the specified line by the following

34) "Transhipment" Report

Data Element	Field Code	Mandatory/ Optional	Requirements for the field
Quantity on- loaded or off- loaded	KG	M	Quantity by species in the Regulatory Area on-loaded or off-loaded in kilograms rounded to the nearest 100 kilograms. Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live
Species Live weight			weight in kilograms (until 9 digits), with each field separated by a space, e.g. //KG/speciesspaceweightspacespeciesspaceweightspacespeciesspaceweightspace//

f) Point 5: Replace the specified lines by the following Renumber point 5 as new point 6

56) "Port of landing" Report

Data Element	Field Code	Mandatory/ Optional	Requirements for the field	
Quantity to be landed	KG	M	Activity detail;	
			Quantity by species in kilograms rounded to the nearest 100 kilograms, to be landed in a port-	
Species Live weight			Allow for several pairs of fields, consisting of species +9 weight (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space, e.g. //KG/speciesspaceweightspacespeciesspaceweightspacespeciesspaceweightspace//	

Quantity on board	OB	M	Activity detail;	
			Quantity by species in kilograms rounded to the nearest 100 kilograms on-board.	
Species			Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space, e.g.	
Live weight			//OB/speciesspaceweightspacespeciesspaceweightspacespeciesspaceweightspace//	

4. Insert the following line in Annex XXII point C in category "Activity details"

Category	Data Element	Field code	Type	Contents	Definitions
		couc			
Activity	Chartering	CH	Char*3	ISO-3166	Flag of Chartering Contracting Party
Details	Flag Catches				

Annex 18. Notification Requirements – NAFO CEM Article 30

(STACTIC Working Paper 10/10 **now** FC Doc. 10/20)

Article 30 requests CP to notify by 1 November the inspectors, inspection means and inspection plans related to their sea inspection programme.

Postponing by 1 month such notification would allow CP to better prepare the provisional plans for the inspection activities in the RA.

The availability of such information would be easier if posted on the secure part of the NAFO website.

It is requested to postpone the deadline from 1 November to 1 December and to invite the Secretariat to post the information on the secure part of the NAFO website.

Possible amendment

- 1. Replace 1 November by 1 December in paragraphs 1 and 3 of Article 30
- 2. Insert new paragraph 4 in Article 30:
 - 4. The Executive Secretary shall post the information received from the CP on the secure part of the NAFO website.

Annex 19. Report on Infringements – NAFO CEM Article 42

(STACTIC Working Paper 10/11, Revision 2 now FC Doc. 10/21)

Article 42(1) states that CP shall report twice a year on infringements detected on their vessels and the relative follow-up, and on significant differences in the recording of catches from logbooks and the inspector's estimation. No standardized reporting process is proposed.

The rationale for such a biannual reporting is not clear.

It is requested

- o to deliver a report once a year (on 1 March), instead of twice
- o to standardize the reporting process (unique e-format)

The Executive Secretary shall establish the form of the report for the electronic notification by Contracting Parties.

Possible amendment

Modify paragraph 1 in Article 42 in accordance with the following text

- 1. Contracting Parties shall report to the Executive Secretary by 1 March each year:
 - a) the action taken during the previous year concerning infringements notified to it by a Contracting Party. The infringements shall continue to be listed on each subsequent report until the action is concluded under the laws of the Flag State; and
 - b) differences that they consider significant between records of catches in the logbooks of vessels of the Contracting Party and inspectors' estimates of catches on board the vessels.

Annex 20. Report on Infringement Form (STACTIC Working Paper 10/19, Revised now FC Doc. 10/22)

Form to be used for the electronic notification by Contracting Parties in complying with NCEM Article 42.

	Northwest Atlantic Fisheries Organization Report on Infringements – CEM Chapter IV, Article 42										
Contracting Part	ty										
Period											
Date of Report											
Case Reference	· #										
Reported	Reported Infringement First Sea Inspection Second Sea Inspection (if applicable				n (if applicable)	Port Inspection (if applicable)					
Flag State	Fishing (Name, C	Vessel	Date	by CP	Division	Date	by CP	Division	Date	Port Name	Port State
	Type (D	etails)									
Apparent Infringement	NCEM P	rovision									
	Docume	ntation									
	Action or	· Status							Con	nments/Observa	tions
Disposition /	Action or	Status									
Follow-up actions	Action or	Status									
	Action or	Status									

Annex 21. Report on Port State Control Inspection (PSC 3) – NCEM Annex XIII (STACTIC Working Paper 10/23 now FC Doc. 10/23)

A. INSPECTION REFE	RENCE	E					
Landing	Ye	es	No	Tre	nshipment	Yes	No
				110			
Port	State				Port of landin	g or transhipmer	nt
1							
Vessel name		Flag State		IMO) Number ¹	Internationa sig	
Landing/transhipment star	ted	Date	2		Time		
Landing/transhipment end	ed	Date	2		Time		
B. INSPECTION DETAILS							
Name of Donor Vessel ²	IMO Nui	umber ¹		Radio Call	sign	Flag State	
B1. CATCH RECORDED IN	THE LO	GBOO	K				
Species ³	Area of c	atch		Declared liv	ve weight kg	Conversion Fact	or Used

Fishing vessels not assigned an IMO number shall provide their external registration number

² In case where a vessel has engaged in transhipment operations. A separate form shall be used for each donor vessel

³ FAO Species Codes – **NEAFC Annex V NAFO Annex II**

B2. FISH LANDED OR TRANSHIPPED*

* In cases where a Vessel has engaged in transhippment operations a separate form shall be used for each donor vessel

Species ⁴	Product ⁵	Area of Catch	Product weight landed in kg	Conversion Factor	Equivalent live weight	between live weight declared in the logbook and the	Diff (%) between live weight declared in the logbook and the live weight landed	Diff (kg) between product weight landed and PSC 1/2	Diff (%) between product weight landed and PSC ½
a Dieo:		LABOUT	LANDING		ODIGED II		COMPLETE	A DION	ED OM
HE FLA	RMATION G STATE cle 23.2 / NAFO a		LANDING	S AUTH	OKISED W	TTHOUT	CONFIRI	MATION	FROM
ame of Stor									

Name of Storage: Deadline for Receiving Name of Competent Authorities: Confirmation: **B4. FISH RETAINED ON BOARD** Species⁶ Product⁷ Live weight Diff (%) Area of Catch Product Conversion Diff (kg) Weight (kg) Factor (kg) between between product weight product weight on board and on board and PSC 1/2 PSC 1/2

 ⁴ & ⁶ FAO Species Codes – **NEAFC Annex V NAFO Annex II** ⁵ & Product presentations – **NEAFC Appendix 1 to Annex IV – NAFO Annex XX (C)**

C1 GENERAL Inspection Started Date Time	C. RESULTS OF INSPECTIO	N						-
Inspection Ended Date: Time: T	C1. GENERAL							
Observations Cage of Cage o	Inspection Started		Date:			Time:		
C2 GEAR INSPECTION IN PORT (for NAFO only) A. General Data Number of Gear Inspected Has the vessel been cited? Yes: No:	Inspection Ended		Date:			Time:		
A. General Data Number of Gear Inspected Has the vessel been cited? Yes: No: If yes, complete the full verification of inspection in port port. If no, complete the full verification of inspection in port port. B. Otter Trawl details NAFO Seal Number Sear Type: Attachments: Grate Bar Spacing (mm): Mesh type Average Mesh sizes (mm) Trawl part Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel. I, the undersigned, Master of the vessel. In the undersigned, Master of the vessel. In the undersigned, Master of the vessel. In the undersigned of the vessel was on this date. My signature does not constitute acceptance of any part of the contents of this report, except my own observations, if any.	Observations							
A. General Data Number of Gear Inspected Has the vessel been cited? Yes: No: If yes, complete the full verification of inspection in port port. If no, complete the full verification of inspection in port port. B. Otter Trawl details NAFO Seal Number Sear Type: Attachments: Grate Bar Spacing (mm): Mesh type Average Mesh sizes (mm) Trawl part Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel. I, the undersigned, Master of the vessel. In the undersigned, Master of the vessel. In the undersigned, Master of the vessel. In the undersigned of the vessel was on this date. My signature does not constitute acceptance of any part of the contents of this report, except my own observations, if any.								
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A. General Data Number of Gear Inspected Has the vessel been cited? Yes: No: If yes, complete the full verification of inspection in port port. If no, complete the full verification of inspection in port port. B. Otter Trawl details NAFO Seal Number Sear Type: Attachments: Grate Bar Spacing (mm): Mesh type Average Mesh sizes (mm) Trawl part Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel. I, the undersigned, Master of the vessel. In the undersigned, Master of the vessel. In the undersigned, Master of the vessel. In the undersigned of the vessel was on this date. My signature does not constitute acceptance of any part of the contents of this report, except my own observations, if any.	C2 GEAR INSPECTION IN P	ORT (fo	or NAFO only)					
Has the vessel been cited? Yes: No: If yes, complete the full verification of inspection in port port. If no, complete the form with the exception of the NAFO seal details. B. Otter Trawl details NAFO Seal Number Is the seal undamaged? Yes: No: No:								
Has the vessel been cited? Yes: No: If yes, complete the full verification of inspection in port port. If no, complete the form with the exception of the NAFO seal details. B. Otter Trawl details NAFO Seal Number Is the seal undamaged? Yes: No: No:	Number of Gear Inspected			Date gear inspected				
B. Otter Trawl details NAFO Seal Number Gear Type: Attachments: Grate Bar Spacing (mm): Mesh type Average Mesh sizes (mm) Trawl part Wings Body Lengthening Piece Codend D. OBSSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel		Yes:	No:		plete the fu	ull verification	on of inspection in port por	rt.
NAFO Seal Number Is the seal undamaged? Yes: If Noc Gear Type: Attachments: Seal undamaged? Seal undamage								
Gear Type: Attachments: Grate Bar Spacing (mm): Mesh type Average Mesh sizes (mm) Trawl part Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel	B. Otter Trawl details							
Attachments: Grate Bar Spacing (mm): Mesh type Average Mesh sizes (mm) Trawl part Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel	NAFO Seal Number			Is the seal undamage	:d?	Yes:	fNo:	
Grate Bar Spacing (mm): Mesh type Average Mesh sizes (mm) Trawl part Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel	Gear Type:							
Mesh type Average Mesh sizes (mm) Trawl part Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel	Attachments:							
Average Mesh sizes (mm) Trawl part Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel	Grate Bar Spacing (mm):							
Trawl part Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel								
Wings Body Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel hereby confirm that a copy of this report have been delivered to me on this date. My signature does not constitute acceptance of any part of the contents of this report, except my own observations, if any.								
Engthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel								
Lengthening Piece Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel	-							
Codend D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel	-							
D. OBSERVATIONS BY THE MASTER I, the undersigned, Master of the vessel								
I, the undersigned, Master of the vessel								
my own observations, if any.	D. OBSERVATIONS BY THE	E MAST	ER					
my own observations, if any.								
my own observations, if any.								
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my own observations, if any.								
my own observations, if any.								
Signature: Date :	I, the undersigned, Master of the verthis report have been delivered to m my own observations, if any.	ssele on this	date. My signatu	re does not constitute a	cceptance (of any part o	hereby confirm that of the contents of this report	at a copy of ct, except
	Signature:		Dat	e:				

E. INFRINGEMENTS AN	D FOLLOW-	UP				
E1. NAFO						
E.1A Sea Inspection						
Infringements resulting from Ir	spections inside	NAFO RA				
Inspection Party	Date of Ins	pection	Div	rision	NA	AFO CEM infringement legal reference
E1B Port Inspection results						
(a) – Confirmation of Infringen		ainspection				
NAFO CEM Infringement lega	l reference			National Infi	ringement I	Legal Reference
(b) – Infringements found at se	a inspection and	not possible t	o be confirn	ned during the	e Port Inspe	ection
Comments:						
(c) - Additional infringements to	found during the	Port Inspection	on			
NAFO CEM Infringement lega	l reference			National Infi	ringement I	Legal Reference
E2. NEAFC INFRINGEM	ENT NOTED					
Article:		NEAFC pro	vision(s) vi	olated and sur	mmary of p	ertinent facts
Observations:						
0.0001 (40.0000)						
Inspectors Name		Inspectors	Signatur	e		Date and Place
F:DISTRIBUTION		T				
Copy to flag state		Copy to NE	AFC Secret	ary		Copy to NAFO Executive Secretary

Annex 22. Shrimp Strengthening Bags

(STACTIC Working Paper 10/24, Revised now FC Doc. 10/24)

At present, the NAFO Conservation and Enforcement Measures (NAFO/FC Doc. 10/1), Chapter I, Article 13 (6) states that: "vessels shall not use any means or device which would obstruct the meshes or diminish the size of the meshes". Irrespective of this provision vessels may still attach authorized topside chafers, described in Annex XV, to the upper side of the codend in such a manner that they will not obstruct the meshes of the codend inclusive of any lengthener(s).

Historically, vessels fishing shrimp have used an outer "strengthening bag" over the topside of the codend to provide support to the codend. While the wording within the current NCEMs does not allow for this type of attachment, vessels continue to use them.

It is Canada's view it is acceptable for shrimp vessels to use strengthening bags. Accordingly, provisions should be inserted into the NCEMs to address the manner in which the strengthening bag must be attached to the trawl.

Possible Amendment

Use of shrimp strengthening bags in the NRA: effective January 1, 2011.

In order to ensure the proper attachment of shrimp strengthening bags currently in use in the NRA, Canada would suggest that parameters be documented in the NCEM to ensure that the attachments do not diminish the size of meshes in the codend, obstruct the mesh or sorting grids or grates.

Annex XV

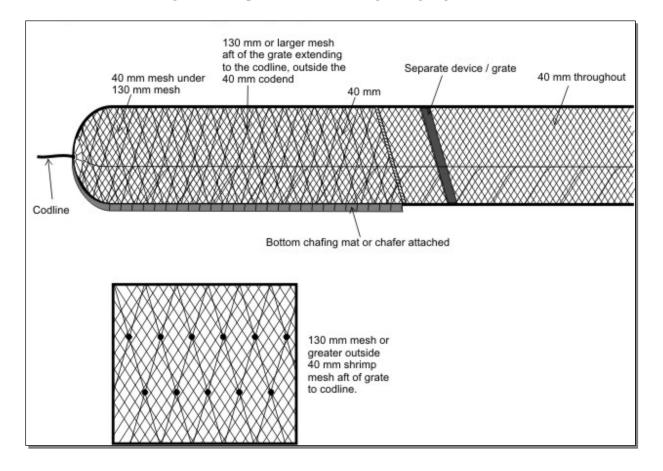
Add the following to Annex XV in reference to vessels fishing for shrimp in the NRA.

3. Shrimp Trawl – Codend Strengthening Bag (Figure 1), for vessels directing for shrimp in the NRA

A strengthening bag is defined as an outer covering of netting that can be used on a shrimp trawl to protect and provide strength to the codend of the shrimp trawl.

- (a) Vessels shall not use a strengthening bag of which the mesh size is less than 130 millimeters.
- (b) The strengthening bag shall not extend forward of the sorting grids or grates or obstruct the sorting grids or grates in any way.
- (c) A strengthening bag shall not be attached in any way that restricts the authorized mesh or obstructs the mesh opening.
- (d) Vessels shall not use a strengthening bag with any other top-side chafers simultaneously.

Figure 1 Shrimp Trawl Codend Strengthening Bag (side view)



Annex 23. Delisting Procedure for IUU Vessels

(STACTIC Working Paper 10/36, Revised **now** FC Doc. 10/25)

The NAFO procedures to remove a vessel from the NAFO listings related to vessels engaged in IUU fishing activities does not provide exhaustive criteria on which STACTIC should base its decision to delist the vessel concerned.

Considering the similarity between both IUU listings, it is requested to align the delisting criteria in NAFO with the relevant criteria for NEAFC. This would in particular allow Contracting Parties to recommend the removal of an IUU listed vessel without the intervention of the flag State.

Possible amendment

Insert the following text in Article 57 paragraph 3 after d)

e) the vessel has sunk, been scrapped, or permanently reassigned for purposes other than for fishing activities.

STACTIC may also recommend that the vessel be removed from the Provisional List or the IUU List if a Contracting Party provides satisfactory evidence that the conditions under e) have been met.

Annex 24. Minimum Standards for Product Labelling under Article 23 and Labelling shall accurately reflect Logbook Records under Article 24

(STACTIC Working Paper 10/37, Revised **now** FC Doc. 10/26)

Background

There are currently no minimum standards for product labelling in the NCEM. The lack of a standard has resulted in labels having information that is not legible. Also labels have fallen off the packaging or the original date of capture label has been covered with an additional label.

To ensure that product can be inspected properly it is recommended that minimum standards on product labelling be introduced to the NCEM.

The mislabeling of catch limits the ability for NAFO inspectors to reconcile catch in the hold with what is recorded by the Master. The mislabeling of catch has also resulted in catch being mis-recorded, particularly in the case of the 3L/3M Shrimp fisheries where the date of capture is required. For greater clarity of the measures, and given the direct correlation with mis-recording, it is recommended that the labeling of product shall be accurately recorded in the daily production and fishing logbooks. It should also be recognized that the inaccurate labelling of product should be considered a serious infringement of the measures.

Proposed Amendments

Amend Article 23 by adding the following text.

Labels shall be securely affixed, stamped or written on packaging and be of a size that can be clearly read by inspectors in the normal course of their duties. Labels shall be clearly marked in ink on a contrasting background. Each package shall not contain more than one product category. In the case of shrimps harvested in Divisions 3L and 3M and Greenland halibut harvested in Subarea 2 and Divisions 3KLMNO each package shall only contain one stock area. In the case of shrimps each package shall only contain one date of capture.

Amend Article 24.2 by adding the following text.

Catches and Product labelled in accordance with Article 23 shall be accurately recorded in the daily production logbook and the daily fishing logbook.

Annex 25. Annual Compliance Review 2010

(Compliance Report for Calendar Year 2009) (STACTIC Working Paper 10/26 **now** FC Doc. 10/28)

1. Introduction

In 2004, NAFO introduced its first compliance review (FC Doc. 04/13). This review uses information from diverse NAFO monitoring, control and surveillance activities to determine how well the international fisheries complied with the annually updated NAFO Conservation and Enforcement Measures (NCEM). The review also assesses the performance of NAFO Contracting Parties with regard to their reporting obligations.

The format of the compliance review is being continuously developed by the Standing Committee on International Control (STACTIC). The current 2010 NAFO compliance review compares information for the years 2004 to 2009 from the following sources: a) Vessel Monitoring System (VMS), b) Observer Reports, c) Port Inspection Reports, d) At-sea Inspection Reports and e) Reports on Dispositions of Apparent Infringements. More detailed data compilation tables were complied by the NAFO Secretariat and circulated to the Contracting Parties in June 2010.

2. Fishing Activities (effort) in the NAFO Regulatory Area

In the years covered by this review, overall fishing activity in the NAFO Regulatory Area (NRA) has continually diminished, with the exception of the groundfish fishery in 2009. In 2004, there were 134 active vessels operating in the NRA. However, by 2009 the number of active vessels decreased to 51, representing a 62-percent decrease (Figure 1). This number increased slightly in 2009 to 62 active vessels, but that is due to an increase in the number of vessels participating in both the groundfish and shrimp fisheries. Conversely, for the pelagic redfish fishery, the number of vessels has dropped by almost 98 percent; from 48 in 2004 to only 1 in 2009.

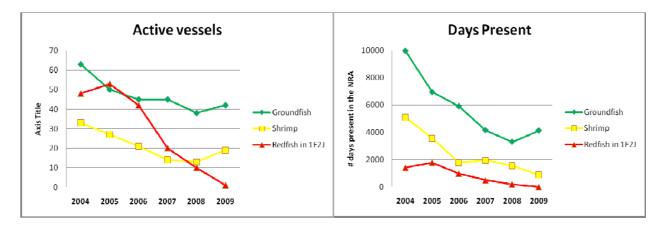


Figure 1. Number of vessels and vessel days in the NAFO Regulatory Area by fishery type

The fishing effort is measured in vessel-days per year in the NRA. Vessel-days are determined by the position reports transmitted by the vessels through their respective Fisheries Monitoring Centers via the vessel's VMS. Although the number of vessels decreased by 61 percent from 2004 to 2009, total fishing effort diminished by 70 percent; from 16,480 days to 5,016 days (Figure 1, Table 5). Although total fishing effort declined slightly between 2008 and 2009, effort in the groundfish fishery increased.

NAFO identifies three main different fishery types; the groundfish, shrimp and pelagic redfish fisheries (Sub-Areas 1F2J). Currently, over three-quarters of the fishing effort can be attributed to the groundfish fishery (82 percent), whereas the pelagic redfish fishery accounts for less than 1 percent of current fishing effort. It should be noted that the number of vessel days in the NRA for the pelagic redfish fishery declined by 99.7 percent, from 1,414 days in 2004 to 5 days in 2009, as compared to a 83 percent decline in the shrimp fishery and a 59 percent decline in the groundfish fishery during the same time period.

3. Compliance by Fishing Vessels

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To ensure that vessels fishing in the NRA adhere to the NCEMs, NAFO monitors, surveys and controls the fishery. In this context NAFO conducts joint at-sea inspections by NAFO-certified inspectors as well as inspections in NAFO member ports. Through the random at-sea and obligatory port inspections, NAFO is able to uncover infringements of the NAFO regulations and collect evidence for the following prosecution within the legal system of each NAFO flag state. Prior to 2009, port state Contracting Parties were required to conduct port inspections on all vessels landing or transshipping fish species from the NRA. Under the recently implemented Port State Control measures, port state Contracting Parties are only required to carry out inspections on vessels from other Contracting Parties at a rate of 15 percent a year. However, the compulsory inspection of all vessels is still in force for landings of NAFO species under a recovery plan.

Although the total number of at-sea inspections decreased from 401 inspections in 2004 to 234 inspections in 2009, the frequency rate of at-sea inspections in relation to the effort (number of inspections per vessel-days per year) actually increased from 2.4 percent in 2004 to 4.7 percent in 2009, (Figure 2, Table 5). It should be noted, however, that the total at-sea inspection rate has remained fairly stable since 2006, ranging from 4.2 to 4.8 percent. At-sea inspection rates have generally increased in all three fisheries since 2004. However, in 2009, the inspection rate for the groundfish fishery dropped by 0.6 percent, and there were no at-sea inspections in the pelagic redfish fishery, likely because there was only 1 active vessel in this fishery with only 5 days present in the NRA. Conversely, the inspection rate for the shrimp fishery increased between 2008 and 2009 by 0.5 percent.

Inspections in port have also declined dramatically, from a 228 in 2004 to 94 in 2009, representing a 59 percent decline over the time period (Table 5). Although the number of port inspections increased slightly between 2007 and 2008 (6 percent), it declined by 29 percent between 2008 and 2009. This appears to be due to reductions in fishing effort in both the shrimp and pelagic redfish fisheries since the number of port inspections for the groundfish fishery actually increased slightly from 2008 to 2009 (4 percent) commensurate with of the slight increase in fishing effort in this fishery between these two years.

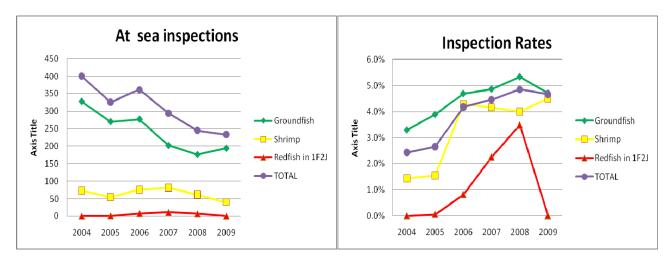


Figure 2. Number of At-Sea Inspections and Inspection rates (number of at-sea inspection/vessel-days) in the NAFO Regulatory Area by fishery type

NAFO inspectors cite a vessel if they have reason to suspect that the vessel breached one or more NAFO regulations. During the review period, at-sea inspectors issued a minimum of 5 citations in 2008, and a maximum of 20 citations in 2005¹ (Table 5). The annual citation rate (the number of citations issued in relation to the number of inspections conducted) for at-sea inspections declined between 2005 and 2008, but increased in 2009 (Figure 3). In contrast, the citation rate for port inspections more than tripled between 2004 and 2007, but declined dramatically in 2008 and 2009, with 2009 being the lowest in the time series at 1.1 percent.

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¹Inspections for the sole purpose of confirming a previous citation were not counted.

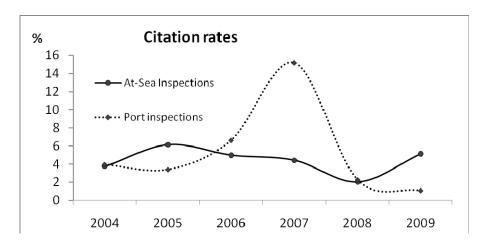


Figure 3. Percentage of inspections that resulted in a citation at sea and in port

Each citation issued by NAFO inspectors can list one or more infringement. NAFO recognizes 10 serious infringements (NCEM Article 37.1). NAFO inspectors also detect other infringements that are not classified as serious, such as missing stowage plans or product labels. The number of infringements that have been issued at-sea or in port during the review period is presented in Figure 4. Although the total number of infringements increased slightly from 30 in 2004 to 42 in 2007, it declined by 76 percent between 2007 and 2008. In contrast, there was a 90 percent increase in 2009 in comparison to 2008. This increase in infringements is likely the result of increased effort in the groundfish fishery in 2009, as discussed further below.

The frequency of infringements by type is presented in Figure 5. More detail on these infringements for the years 2004 through 2009 is provided in Table 5. The most frequent infringement is inaccurate recording of catches, a serious offence that was particularly pronounced in 2006 and 2007 (27 and 43 percent of total infringements, respectively). However, the actual number of infringements of this type declined dramatically between 2007 and 2008, from 16 to 2 infringements (Table 5), with a slight increase to 3 infringements in 2009.

The percentage of infringements by fisheries type is displayed in Figure 6 for 2006 through 2009. However, detailed infringement information for 2004 through 2009 is provided in Table 5. More than half of all infringements come from groundfish vessels, and up until 2008, groundfish vessels accounted for at least half of all serious infringements. In 2008, groundfish vessels accounted for 100 percent of serious infringements, although there were only 3 issued. The high level of infringements, including serious infringements, in the ground fish fishery can be attributed to the fact that groundfish fishery effort constitutes more than half of the total fishing effort in the NRA in terms of vessel-days. It should be noted that the number of serious infringements from groundfish vessels decreased dramatically in 2008 with a commensurate decline in fishing effort. However, fishing effort and number of infringements increased for the groundfish fishery in 2009. It should be further noted that all infringements detected by port inspectors during the review period involved groundfish vessels.

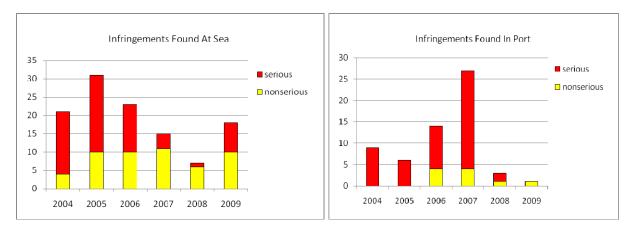


Figure 4. Number of Apparent Infringements detected by NAFO at-sea and port inspectors for 2004-2009

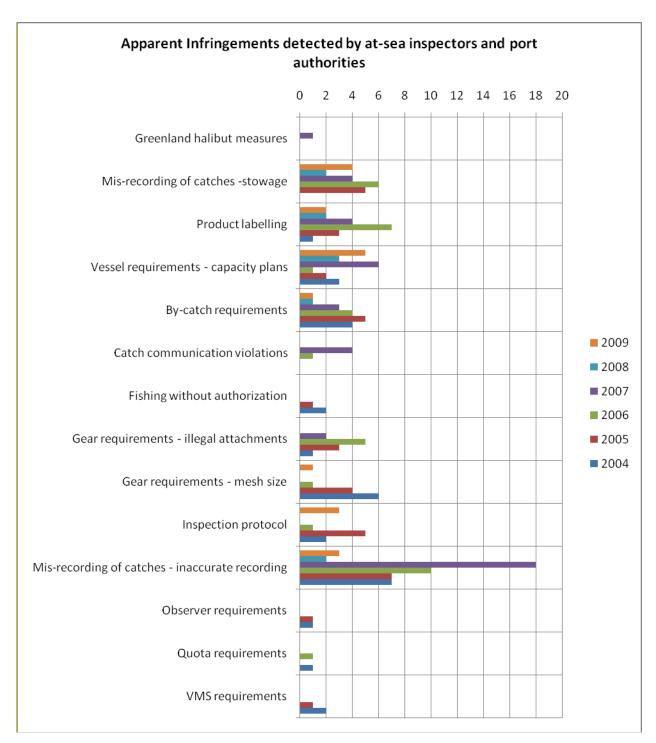


Figure 5. Apparent Infringements detected by NAFO at-sea and port inspectors

*Please note that the first 4 are non-serious infringements and the remaining 10 are serious infringements.

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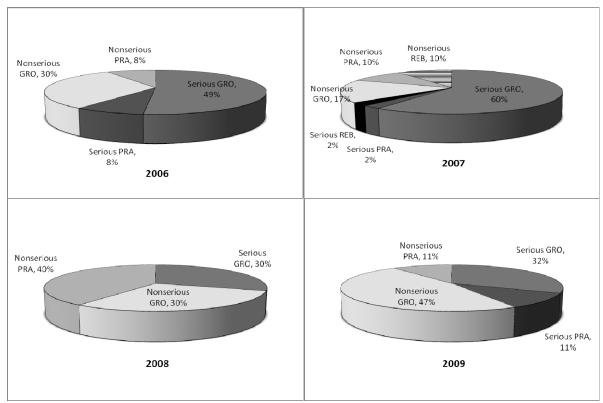


Figure 6. Percentages of serious (dark areas) and non-serious (light areas) infringements (by fishery type) detected by at-sea and port inspectors for 2006-2009

4. Reporting obligations by fishing vessels and NAFO Contracting Parties

Monitoring the NAFO fisheries includes submission of reports on catch and effort by vessels from different sources: VMS reports such as Catch-on-Entry (COE) and Catch-on-Exit (COX) are submitted by the fishing vessels through their respective Fisheries Monitoring Centers; port inspection reports by the port authorities; and observer reports by the flag state members. These reports from different sources allow a comparative analysis of catches, should ideally cover 100 percent of the fishing trips, and should account for all the days the fishing vessels are present in the NRA. Figure 7 shows the relative coverage of fishing trips from the reports received; deviations from 100 percent are caused by missing reports. Since 2005, catch reports received by NAFO VMS have become the most complete source on catch-by-vessel information. The submission of port inspection and observer reports improved in 2008, but declined in 2009.

Submission of observer reports decreased in 2006 and 2007, increased in 2008, but declined again in 2009. The drop in observer reporting rate in 2006 and 2007 is not due to a decline in the actual number of observer reports received by NAFO resulting from implementation of the electronic reporting scheme, which allows vessels to reduce their observer coverage by 25 percent in if they submit daily electronic catch reports. Rather, the reporting compliance of vessels participating in that scheme has been accounted for in Figure 7 and Table 1 (i.e., if daily catch reports are 4 times the number of observer reports, the vessel is considered compliant). However, factors relating to implementation of this electronic reporting scheme may have impacted observer compliance rates during these two

² Vessels fishing in the NRA are required to have 100% observer coverage, i.e. presence of an independent observer on board at all times. Since 2007, Contracting Parties can alternatively opt for a daily electronic catch reporting scheme (see CEM, Chapter VII) which allows them to reduce the observer coverage on their vessels by up to 25%.

³ The percentage coverage for VMS catch reports (COE-COX) shown in Figure 7 was calculated from the number of days as indicated in each report and the total effort (vessel-days) as validated from the VMS position reports. Port reports included transhipments at sea (particularly important for the pelagic redfish fishery).

years. The electronic reporting scheme was originally a pilot project in 2006, and was fully implemented in 2007. In 2007, only two Contracting Parties participated in this scheme (Norway, the Faroe Islands), but Estonia became the third to participate in 2008 and 2009 (see STACTIC WP 10/22).

Similar to the observer reports, the submission of port inspection reports also decreased in 2009. This is likely due to the implementation of NAFO's Port State Control Scheme in 2009. As noted above, under this scheme port state Contracting Parties are only required to carry out inspections on vessels from other Contracting Parties at a rate of 15 percent a year, with the exception of vessels fishing for NAFO species under a recovery plan.

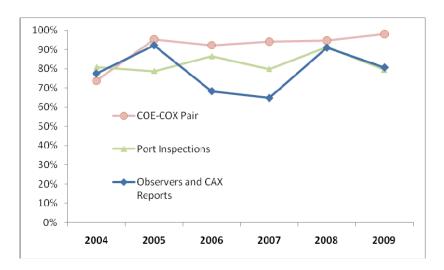


Figure 7. Percentage coverage of fishing effort by VMS, Port Inspection and Observer Reports

Another issue is the timeliness of reports submitted by Contracting Parties to the NAFO Secretariat. Articles 28 and 35 of the NCEMs require that observer reports and at-sea inspection reports be submitted within 30 days (of completion of assignment for observer reports). Under the Port State Control measures implemented in 2009, port state Contracting Parties are required to transmit the Port State Control inspection form (form PSC 3) to the Executive Secretary "without delay." However, this provision was not in effect for 2008, Thus, the 30-day requirement in force for port inspection reports in 2008 is considered in this analysis. In comparison to port inspection and observer reports, at-sea inspection reports are submitted in a more timely fashion (Figure 8). However, the timeliness of the at-sea inspection reports has declined since 2005, from an on-time rate of 91 percent in 2005, to 62 percent in 2009. In fact, the timeliness of at-sea inspection reports has been fairly consistent since 2007, while the timeliness of observer and port inspection reports has increased, with dramatic improvement in 2009. It should be noted that timeliness of submission does not necessarily equate to a failure to submit the required reports.

During the course of the 2009 Annual NAFO Meeting, concerns were raised by Contracting Parties regarding the quality of the reports received. As such, the Secretariat was asked to provide a summary of their experience with these reports. This is as follows:

The lack of uniformity in format of the submitted observer reports may compromise the quality of the reports in general. However total catch information by species contained in the observer reports were compared to other sources (e.g., VMS hail reports and Port Inspection reports), where possible, and the comparison shows that there is a general agreement of the catch information among various sources.

Upon further discussion with the Secretariat it was noted that lack of uniformity with these reports is also an issue, making it time consuming to compile the annual compilation tables provided to Contracting Parties. It was also noted that corrections to individual reports must be handled on an individual basis, further complicating the compilation of annual information to assess compliance. Finally, one of the Contracting Parties highlighted

problems caused by "malformed" VMS reports, such as COE and COX reports. These "malformed" (or erroneous) reports cannot be processed, and, therefore, cannot be forwarded to the systems that provide information to patrol platforms on a real-time basis impacting monitoring and surveillance activities. As a result, the Secretariat proved a presentation at the 2010 STACTIC Intersessional Meeting to help explain the potential causes of "malformed" reports and how they are excluded from the data used to prepare the annual compliance review. Potential causes include technical issues at the Contracting Party level (e.g., duplicates, mis-typed hail reports, etc.) and lack of clarity regarding the hail reporting requirements in NCEMs (e.g., unnecessary reports, mis-directed reports, etc.).

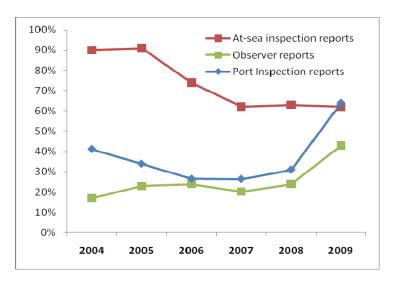


Figure 8. Timeliness of submission of reports

5. Follow-up to infringements

Flags states are obligated to follow-up with further investigations and legal prosecution when NAFO inspectors issue a citation against a Contracting Party vessel. The Secretariat receives information on the status of each case. The legal procedure can take longer than one year and it is, therefore, not expected that by 2009 (for example) all cases originating during the previous years could be resolved. This information is reflected in Figure 9 and also in Table 6.

In general, it appears that most cases are resolved within a 2-year time period. However, the number of cases with no follow-up information has remained relatively stable since 2006 despite a decline in the total number of citations issues.

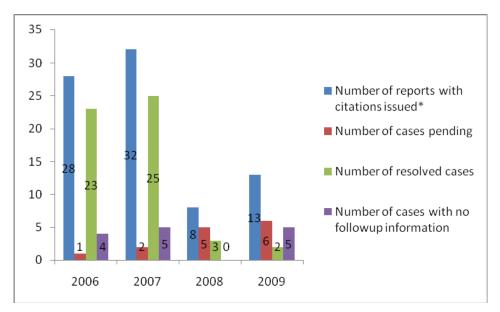


Figure 9. Legal resolution of citations against vessels fishing in the NAFO Regulatory Area by year in which the citations were issued (as of July 2010). A citation is an inspection report (from at-sea or port inspectors) that lists one or more infringements. Inspections carried out for confirming a previous citation are not counted.

6. Observed trends (period 2004 to 2009)

- The total fishing effort in the NAFO area continues to decline both in terms of number of vessels and fishing days in the NRA since 2004. There was an increase in the number of vessels participating in the groundfish and shrimp fisheries in 2009, but this increase was offset by a decline in the number of vessels participating in the redfish fishery. Further, the change in number of vessels participating in individual fisheries (61 in 2008 and 62 in 2009) in relation to the change in the total number of active vessels (60 in 2008 and 51 in 2009) indicates that more vessels participated in multiple fisheries in 2009 than in 2008. Although, there was a slight drop in total fishing effort in 2009 in comparison to 2008 (0.8 percent), there was a 25 percent increase in effort in the groundfish fishery. Conversely, total fishing effort declined substantially in both the shrimp and redfish fisheries (43 percent and 98 percent, respectively).
- The number of at-sea inspections has declined overall since 2004, despite a slight increase in 2006. This is likely due to the reduced number of active vessels fishing in the NRA. Overall, the rate of at-sea inspections per vessel fishing day has increased since 2004, from 2.4 percent in 2004 to 4.8 percent in 2008, with a slight decline to 4.7 percent in 2009. However, the at-sea inspection rate declined dramatically for the redfish fishery in 2009 (to 0 percent) since there was hardly any activity in this fishery. The at-sea inspection rate also declined by 11 percent for the groundfish fishery (from 5.3 to 4.7 percent), but increased by 13 percent (from 4.0 to 4.5 percent) for the shrimp fishery. This may indicate more compliance concerns involving the shrimp fishery in 2009 in comparison to the groundfish fishery.
- The number of citations resulting from at-sea inspections varied from 5 to 20 during the 5-year period. The at-sea citation rate decreased slightly since 2005, with an increase in 2009, but has remained generally stable over the time period.
- The number of citations resulting from port inspections increased to a peak of 19 between 2004 and 2007, but has declined dramatically since with only 1 citation in 2009.
- There was a 45 percent decline in port inspections from 2004 to 2007, but a slight increase in 2008 (6 percent), then a subsequent decline again in 2009 (29 percent). The number of vessels cited by port authorities per year

varied from a high of 16 in 2007 to a low of 1 in 2009. The number of apparent infringements issued ranged from 27 in 2007 to 1 in 2009, demonstrating a 96 percent decline since 2007.

- During the 6 year period, a total of 115 apparent infringements resulted from at-sea inspections and 60 from port inspections. The apparent infringement category "Mis-recording of Catches" (Both Stowage and Inaccurate recording related) accounted for 37 of the apparent infringements issued at sea (33 percent) and 32 in port (53 percent). These infringements were issued more frequently in relation to groundfish fisheries.
- The number of cases having no follow-up information from the Contracting Party has been relatively stable since 2006 despite an overall decline in the number of citations issued. Thus, lack of follow-up on apparent infringements remains a concern. For example, the percentage of citations with no follow-up relative to total citations issued was 14 percent in 2006 and 38 percent in 2009. The Contracting Party may be following up on the apparent infringement, but may not have reported the status back to the NAFO Secretariat.
- Timeliness of submission of port inspection and observer reports by Contracting Parties has greatly improved, but has remained steady for at-sea inspection reports.

7. Annexes (the "Report tables)

Table 1. Submission of Fishing Reports*

Year	Days at the Regulatory Area (Effort)	Number of Days accounted by COE-COX pairs	Percentage of Effort accounted by COE-COX pairs	Number of Days accounted by Port Inspection and TRA reports	Percentage of Effort accounted by Port Inspection and TRA reports	Number of Days accounted by Observer and CAX reports	Percentage of Effort accounted by Observer and CAX reports
2004	16480	12156	74%	13327	81%	12779	78%
2005	12290	11706	95%	9679	79%	11326	92%
2006	8663	7991	92%	7488	86%	5921	68%
2007	6598	6210	94%	5269	80%	4276	65%
2008	5054	4785	95%	4613	91%	4596	91%
2009	5016	4920	98%	3981	79%	4047	81%

^{*}COE = Catch on entry, COX = Catch on exit, TRA = transhipment, CAX = Daily catch report

Table 2. Timely submission of Port Inspection Reports

Year	2004	2005	2006	2007	2008	2009
Total Number of Port Inspection Reports						
received	228	177	151	125	133	94
Total Number of Port Inspection Reports						
received late	134	117	111	92	92	34
Percentage % of late Port Inspection						
Reports	59%	66%	74%	74%	69%	36%

NB: Timeliness based upon Article 45 in 2008 NECMs which stipulated the transmission of port inspection reports to the Secretariat within 30 days on which the landing was completed.

Port Inspection Reports are submitted by the CP of the Port Inspection Authority.

Table 3. Timely submission of At-Sea Inspection Reports

Year	2004	2005	2006	2007	2008	2009
Total Number of at-sea Inspections	401	326	361	296	263	324
Number of at-sea Inspections received late	40	30	95	112	96	124
Percentage % of late at-sea Inspection Reports	10%	9%	26%	38%	37%	38%

NB: Timely submission means transmission of the report with 30 days.

At-sea Inspection Reports are submitted by the CP with inspection presence at NAFO Regulatory Area.

Table 4. Timely submission of Observer Reports

Year	2004	2005	2006	2007	2008	2009
Total Number of Observers Reports	211	170	114	84	126	86
Number of Observers Reports received late	176	131	87	67	96	49
Percentage % of late Observers Reports	83%	77%	76%	80%	76%	57%

NB: Article 28 stipulates the transmission of the observer reports to the Secretariat within 30 days after the completion of the observer's assignment.

Observer Reports are submitted by the Flag State of the vessels.

Table 5-2004, part 1. Effort, at-sea inspections and AIs by fisheries type

Fisheries*	GRO	PRA	REB	Total
Number of vessels	63	33	48	134**
Days Present in NRA	9966	5100	1414	16480
Number of at-sea inspections	328	73	0	401
Number of at-sea inspection report containing citation of				
one or more AIs	13	2	0	15
Number of vessels cited with AIs at sea	10	2	0	12
AIs issued by category - from at-sea inspections***				
Greenland halibut measures	0	0	0	0
Mis-recording of catches -stowage	0	0	0	0
Product labeling	0	1	0	1
Vessel requirements - capacity plans	3	0	0	3
By-catch requirements	3	0	0	3
Catch communication violations	0	0	0	0
Fishing without authorization	0	1	0	1
Gear requirements - illegal attachments	1	0	0	1
Gear requirements - mesh size	5	0	0	5
Inspection protocol	2	0	0	2
Mis-recording of catches - inaccurate recording	1	0	0	1
Observer requirements	0	1	0	1
Quota requirements	1	0	0	1
VMS requirements	0	2	0	2
TOTAL	16	5	0	21

^{*} GRO = groundfish primarily in Divs. 3KLMNO; PRA = shrimp fisheries in Divs. 3LM; REB = redfish in Divs. 1F2J

Table 5-2004, part 2. Effort, port inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	63	33	48	134**
Days Present in NRA	9966	5100	1414	16480
Number of port inspections	85	138	5	228
Number of port inspection report containing citation of				
one or more AIs	9	0	0	9
Number of vessels cited with AIs by port authorities	9	0	0	9
AIs issued by category - from port inspections***				
Greenland halibut measures	0	0	0	0
Mis-recording of catches -stowage	0	0	0	0
Product labeling	0	0	0	0
Vessel requirements - capacity plans	0	0	0	0
By-catch requirements	1	0	0	1
Catch communication violations	0	0	0	0
Fishing without authorization	1	0	0	1
Gear requirements - illegal attachments	0	0	0	0
Gear requirements - mesh size	1	0	0	1
Inspection protocol	0	0	0	0
Mis-recording of catches - inaccurate recording	6	0	0	6
Observer requirements	0	0	0	0
Quota requirements	0	0	0	0
VMS requirements	0	0	0	0
TOTAL	9	0	0	9

^{**} Some vessels switched directed species within the year.

^{***} AIs from citation reports serving to confirm an incident are not counted. AI categories in bold are considered serious.

Table 5-2005, part 1. Effort, at-sea inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	50	27	53	116**
Days Present in NRA	6948	3558	1784	12290
Number of at-sea inspections	270	55	1	326
Number of at-sea inspection report containing citation of one or more AIs	16	4	0	20
Number of vessels cited with AIs at sea	14	3	0	17
AIs issued by category - from at-sea inspections***				
Greenland halibut measures	0	0	0	0
Mis-recording of catches -stowage	5	0	0	5
Product labeling	2	1	0	3
Vessel requirements - capacity plans	2	0	0	2
By-catch requirements	2	0	0	2
Catch communication violations	0	0	0	0
Fishing without authorization	0	1	0	1
Gear requirements - illegal attachments	2	1	0	3
Gear requirements - mesh size	3	0	0	3
Inspection protocol	3	1	0	4
Mis-recording of catches - inaccurate recording	5	1	0	6
Observer requirements	0	1	0	1
Quota requirements	0	0	0	0
VMS requirements	0	1	0	1
TOTAL	24	7	0	31

Table 5-2005, part 2. Effort, port inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	50	27	53	116**
Days Present in NRA	6948	3558	1784	12290
Number of port inspections	80	87	10	177
Number of port inspection report containing citation of				
one or more AIs	6	0	0	6
Number of vessels cited with AIs by port authorities	6	0	0	6
AIs issued by category - from port inspections***				
Greenland halibut measures	0	0	0	0
Mis-recording of catches -stowage	0	0	0	0
Product labeling	0	0	0	0
Vessel requirements - capacity plans	0	0	0	0
By-catch requirements	3	0	0	3
Catch communication violations	0	0	0	0
Fishing without authorization	0	0	0	0
Gear requirements - illegal attachments	0	0	0	0
Gear requirements - mesh size	1	0	0	1
Inspection protocol	1	0	0	1
Mis-recording of catches - inaccurate recording	1	0	0	1
Observer requirements	0	0	0	0
Quota requirements	0	0	0	0
VMS requirements	0	0	0	0
TOTAL	6	0	0	6

^{*} GRO = groundfish primarily in Divs. 3KLMNO; PRA = shrimp fisheries in Divs. 3LM; REB = redfish in Divs. 1F2J

** Some vessels switched directed species within the year.

*** AIs from citation reports serving to confirm an incident are not counted. AI categories in bold are considered serious.

Table 5-2006, part 1. Effort, at-sea inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	45	21	42	92**
Days Present in NRA	5908	1776	979	8663
Number of at-sea inspections	277	76	8	361
Number of at-sea inspection report containing citation of one or more AIs	11	5	2	18
Number of vessels cited with AIs at sea	10	4	2	16
AIs issued by category - from at-sea inspections***				
Greenland halibut measures	0	0	0	0
Mis-recording of catches -stowage	5	1	0	6
Product labeling	1	2	0	3
Vessel requirements - capacity plans	1	0	0	1
By-catch requirements	2	0	0	2
Catch communication violations	0	0	0	0
Fishing without authorization	0	0	0	0
Gear requirements - illegal attachments	2	2	1	5
Gear requirements - mesh size	0	0	1	1
Inspection protocol	0	1	0	1
Mis-recording of catches - inaccurate recording	4	0	0	4
Observer requirements	0	0	0	0
Quota requirements	0	0	0	0
VMS requirements	0	0	0	0
TOTAL	15	6	2	23

^{*} GRO = groundfish primarily in Divs. 3KLMNO; PRA = shrimp fisheries in Divs. 3LM; REB = redfish in Divs. 1F2J

Table 5-2006, part 2. Effort, port inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	45	21	42	92**
Days Present in NRA	5908	1776	979	8663
Number of port inspections	76	56	19	151
Number of port inspection report containing citation of one or more AIs	10	0	0	10
Number of vessels cited with AIs by port authorities	10	0	0	10
AIs issued by category - from port inspections***				
Greenland halibut measures	0	0	0	0
Mis-recording of catches -stowage	0	0	0	0
Product labeling	4	0	0	4
Vessel requirements - capacity plans	0	0	0	0
By-catch requirements	2	0	0	2
Catch communication violations	1	0	0	1
Fishing without authorization	0	0	0	0
Gear requirements - illegal attachments	0	0	0	0
Gear requirements - mesh size	0	0	0	0
Inspection protocol	0	0	0	0
Mis-recording of catches - inaccurate recording	6	0	0	6
Observer requirements	0	0	0	0
Quota requirements	1	0	0	1
VMS requirements	0	0	0	0
TOTAL	14	0	0	14

^{**} Some vessels switched directed species within the year.

*** AIs from citation reports serving to confirm an incident are not counted. AI categories in bold are considered serious.

Table 5-2007, part 1. Effort, at-sea inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	45	14	20	76**
Days Present in NRA	4158	1948	488	6594
Number of at-sea inspections	202	81	11	294
Number of at-sea inspection report containing citation of one or more AIs	4	5	4	13
Number of vessels cited with AIs at sea	4	5	4	13
AIs issued by category - from at-sea inspections***				
Greenland halibut measures	0	0	0	0
Mis-recording of catches -stowage	3	1	0	4
Product labeling	0	1	0	1
Vessel requirements - capacity plans	0	2	4	6
By-catch requirements	0	0	0	0
Catch communication violations	0	0	0	0
Fishing without authorization	0	0	0	0
Gear requirements - illegal attachments	0	1	1	2
Gear requirements - mesh size	0	0	0	0
Inspection protocol	0	0	0	0
Mis-recording of catches - inaccurate recording	2	0	0	2
Observer requirements	0	0	0	0
Quota requirements	0	0	0	0
VMS requirements	0	0	0	0
TOTAL	5	5	5	15

^{*} GRO = groundfish primarily in Divs. 3KLMNO; PRA = shrimp fisheries in Divs. 3LM; REB = redfish in Divs. 1F2J

Table 5-2007, part 2. Effort, port inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	45	14	20	76**
Days Present in NRA	4158	1948	488	6594
Number of port inspections	67	51	7	125
Number of port inspection report containing citation of one or more AIs	19	0	0	19
Number of vessels cited with AIs by port authorities	16	0	0	16
AIs issued by category - from port inspections***				
Greenland halibut measures	1	0	0	1
Mis-recording of catches -stowage	0	0	0	0
Product labeling	3	0	0	3
Vessel requirements - capacity plans	0	0	0	0
By-catch requirements	3	0	0	3
Catch communication violations	4	0	0	4
Fishing without authorization	0	0	0	0
Gear requirements - illegal attachments	0	0	0	0
Gear requirements - mesh size	0	0	0	0
Inspection protocol	0	0	0	0
Mis-recording of catches - inaccurate recording	16	0	0	16
Observer requirements	0	0	0	0
Quota requirements	0	0	0	0
VMS requirements	0	0	0	0
TOTAL	27	0	0	27

^{**} Some vessels switched directed species within the year.

^{***} AIs from citation reports serving to confirm an incident are not counted. AI categories in bold are considered serious.

Table 5-2008, part 1. Effort, at-sea inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	38	13	10	60**
Days Present in NRA	3302	1551	201	5054
Number of at-sea inspections	176	62	7	245
Number of at-sea inspection report containing citation of one				_
or more AIs	2	3	0	5
Number of vessels cited with AIs at sea	2	3	0	5
AIs issued by category - from at-sea inspections***				
Greenland halibut measures				0
Mis-recording of catches -stowage	1	1		2
Product labelling	1			1
Vessel requirements - capacity plans		3		3
By-catch requirements	1			1
Catch communication violations				0
Fishing without authorization				0
Gear requirements - illegal attachments				0
Gear requirements - mesh size				0
Inspection protocol				0
Mis-recording of catches - inaccurate recording				0
Observer requirements				0
Quota requirements				0
VMS requirements				0
TOTAL	3	4	0	7

^{*} GRO = groundfish primarily in Divs. 3KLMNO; PRA = shrimp fisheries in Divs. 3LM; REB = redfish in Divs. 1F2J

Table 5-2008, part 2. Effort, port inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	38	13	10	60**
Days Present in NRA	3302	1551	201	5054
Number of port inspections	70	60	2	132
Number of port inspection report containing citation of one				
or more AIs	3	0	0	3
Number of vessels cited with AIs by port authorities	2			
AIs issued by category - from port inspections***				
Greenland halibut measures				0
Mis-recording of catches -stowage				0
Product labelling	1			1
Vessel requirements - capacity plans				0
By-catch requirements				0
Catch communication violations				0
Fishing without authorization				0
Gear requirements - illegal attachments				0
Gear requirements - mesh size				0
Inspection protocol				0
Mis-recording of catches - inaccurate recording	2			2
Observer requirements				0
Quota requirements				0
VMS requirements		_		0
TOTAL	3	0	0	3

^{**} Some vessels switched directed species within the year.

*** AIs from citation reports serving to confirm an incident are not counted. AI categories in bold are considered serious.

Table 5-2009, part 1. Effort, at-sea inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	41	20	1	51**
Days Present in NRA	4122	889	5	5016
Number of at-sea inspections	194	40	0	234
Number of at-sea inspection report containing citation of one or more AIs	8	4	0	12
Number of vessels cited with AIs at sea	6	4	0	10
AIs issued by category - from at-sea inspections***				
Greenland halibut measures				0
Mis-recording of catches -stowage	4			4
Product labelling	1			1
Vessel requirements - capacity plans	3	2		5
By-catch requirements	1			1
Catch communication violations				0
Fishing without authorization				0
Gear requirements - illegal attachments				0
Gear requirements - mesh size	1			1
Inspection protocol	2	1		3
Mis-recording of catches - inaccurate recording	2	1		3
Observer requirements				0
Quota requirements				0
VMS requirements				0
TOTAL	14	4	0	18

^{*} GRO = groundfish primarily in Divs. 3KLMNO; PRA = shrimp fisheries in Divs. 3LM; REB = redfish in Divs. 1F2J

Table 5-2009, part 2. Effort, port inspections and AIs by fisheries type

FISHERIES*	GRO	PRA	REB	Total
Number of vessels	41	20	1	51**
Days Present in NRA	4122	889	5	5016
Number of port inspections	73	21	0	94
Number of port inspection report containing citation of one				
or more AIs	1	0	0	1
Number of vessels cited with AIs by port authorities	1			
AIs issued by category - from port inspections***				
Greenland halibut measures				0
Mis-recording of catches -stowage				0
Product labelling	1			1
Vessel requirements - capacity plans				0
By-catch requirements				0
Catch communication violations				0
Fishing without authorization				0
Gear requirements - illegal attachments				0
Gear requirements - mesh size				0
Inspection protocol				0
Mis-recording of catches - inaccurate recording				0
Observer requirements				0
Quota requirements				0
VMS requirements				0
TOTAL	1	0	0	1

^{**} Some vessels switched directed species within the year.

*** AIs from citation reports serving to confirm an incident are not counted. AI categories in bold are considered serious.

Table 6. Resolution of Apparent Infringement (AI) Cases (as of July 2010)

	2006	2007	2008	2009
Number of reports with citations issued*	28	32	8	13
Number of cases pending	1	2	5	6
Number of resolved cases	23	25	3	2
Number of cases with no followup information	4	5	0	5

^{*} Number of at-sea and port inspection reports issuing serious and non-serious AIs.

A report may contain one or more AI.

Reports serving to confirm identical cases are not counted.

PART II

Report of the Standing Committee on International Control (STACTIC)

32nd Annual Meeting Halifax, Nova Scotia, Canada September 20-24, 2010

1. Opening of the Meeting by the Chair Mads Nedergaard, Denmark (in respect of the Faroe Islands and Greenland)

The Chairman opened the meeting at 14:00 hrs at the World Trade and Convention Centre, Halifax, Canada and welcomed representatives of Canada, Denmark (in respect of the Faroe Islands and Greenland), Iceland, the European Union (EU), France (in respect of St. Pierre-et-Miquelon), Japan, Norway, Russia, the United States and the NAFO Secretariat to the STACTIC meeting.

No opening statements were made.

2. Appointment of Rapporteur

Brent Napier (Canada) was appointed Rapporteur.

3. Adoption of Agenda

The Chair introduced the agenda and noted that an item would be added under "Other matters" to address the instructions received from Fisheries Commission to reflect on possible changes to Article 17 – Conservation and Management of Sharks. He then opened the floor to further comments.

The Representative of Canada noted that, under agenda item 5 – Review and evaluation of NAFO Compliance objectives, that based on STACTIC WP 09/08 a standing section related to "Electronic/Satellite/Remote Monitoring" should be added as it was in previous agendas. The Chair noted the omission and added this item as agenda item 5 (d).

The Representative of Canada also noted his wish to have a second proposal (STACTIC WP 10/34) added under agenda item 9 b) as it related to product labeling. The Chair recognized the addition.

The representative of Denmark (in respect of the Faroe Islands and Greenland) signaled a desire to add an agenda item to accommodate a proposal concerning fishing for shrimp in NAFO Division 3L (Article 15.2.). The Chair acknowledged the request and indicated that this would be dealt with under "Other matters".

The Chair remarked that STACTIC WP 10/33, related to the work of the Editorial Drafting Group (EDG), would be added under agenda item 8.

The Representative of the EU informed the Chair of the following new proposals and recommended agenda placement:

- STACTIC WP 10/9 (revised) Daily Communication of Catches under agenda item 9 h)
- STACTIC WP 10/29 Observer Scheme under agenda item 10
- STACTIC WP 10/30 Port State Control under agenda item 9
- STACTIC WP 10/31 At-sea Inspection Checklist under agenda item 5 b)
- STACTIC WP 10/32 Product Form Codes under agenda item 9

The Chair agreed to the EU's proposed agenda amendments.

The Chair noted that the Icelandic proposal (STACTIC WP 10/21) regarding procedures to coordinate the weighing of landed catch would be discussed under agenda item 5a).

As a point of clarification, the Chair noted that an editorial error had been discovered and corrected in a proposal (STACTIC WP 09/21 revised 2) approved for submission to Fisheries Commission at the 2010 NAFO annual meeting.

The agenda, as amended, was adopted (Annex 1).

4. Compliance review 2009 including review of reports of apparent infringements

The Chair introduced the agenda item and requested that the representative of the Compliance Report Drafting Group (CRDG) make a presentation on the compilation of fisheries reports and the 2009 annual compliance review process (STACTIC WP 10/26).

The representative of the CRDG introduced the 2009 compliance review report and provided a brief explanation of the compilation process. She also sought STACTIC approval to explore a new approach to the compliance review process (outlined in STACTIC WP 10/38) that would be composed of two steps, the first being a more detailed discussion/report internal to STACTIC and the second a high level, executive summary that would be submitted to Fisheries Commission in the form of the Annual Compliance Report. The representative of Canada and the EU both supported the proposed approach.

The Chair thanked the CRDG for its work to date and directed it to continue working closely with the Secretariat to develop the new format in preparation for the 2011 NAFO intercessional meeting.

Prompted by comments from the CRDG, the Chair opened a discussion on practice of addressing the objectivity of inspections (STACTIC WP 10/18) independent from the compliance review report and the relevance of its current format given STACTIC's decision to abandon the objectivity of inspection formula at the 2009 NAFO Annual Meeting.

The representative of the EU noted that the NAFO CEM's currently contained provisions obliging the NAFO Secretariat to report on objectivity of inspections, however remarked that this concept was already covered within the existing compliance reporting process.

The representative of Canada supported the notion that the current compliance report included information pertaining to objectivity, and its placement within this report allowed for better correlation to the other elements of the compliance report.

The Chair noted that the issue of objectivity would hereafter be addressed within the compliance report.

Addressing the final issues under this agenda item the Chair introduced the outstanding working papers (STACTIC WP 10/1 revised, STACTIC WP 10/14 and FC Doc 10/8) and asked whether there were any updates/comments.

The representative of Iceland noted that, in one particular case, the final disposition of the apparent infringement did not seem to be commensurate with the magnitude of non-compliant behaviour and the corresponding enforcement effort required to address the issue.

The representative of the EU noted that it was the responsibility of each flag State Contracting Party to prosecute apparent infringements based on its domestic procedures, and further noted that vessels that exhibit this type of behaviour, and escape reasonable penalties, will be subject to closer scrutiny and monitoring.

The Chair noted that no other comments were made on this issue and the item was closed.

It was agreed that:

- STACTIC would take a two phased approach to the compliance reporting process, as described in STACTIC WP 10/38.
- The NAFO Secretariat would assist the CRDG with ensuring the elements of the annual "Report on the Objectivity in the Realization and Distribution of Inspections Between the Contracting Parties" are incorporated within the compliance review process and that the objectivity formula previously utilized in relation to this report would be discarded.
- STACTIC WP 10/26 would be submitted to the Fisheries Commission for adoption.

5. Review and evaluation of NAFO Compliance objectives

The Chair opened the agenda item and proceeded with each sub-item.

a) In-Port/Land based Monitoring

Port Inspection Checklist

The representative from the EU reiterated his statement from the May 2010 intersessional meeting that the purpose of the in-port checklist, presented as STACTIC WP 09/17, was to for use as a guide and was not intended to be compulsory. Thus, there is no redraft of this working paper as indicated in the report from the intersessional meeting. See item 5.b for further discussion on the issue of harmonizing the in-port and at-sea inspection process.

The representative of the United States noted that the elements in the checklist should be consistent with the elements provided for under similar FAO guidelines, the representative of the EU confirmed that the elements were fully consistent.

Procedures to Coordinate the Weighing of Landed Catch

The representative of Iceland presented STACTIC WP 10/21 touching on the key points of the working paper which provided an overview of the Icelandic system for weighing landed catch. The Chair thanked the representative of Iceland for the presentation and inquired as to how the minimum sample levels identified in the paper were determined. The representative of Iceland noted that research formed the basis for these thresholds.

The representative of the EU noted that a similar process was in place in the EU and remarked that this type of working paper was useful in further developing the concept of a more effective and reliable inspection scheme. The representative of Denmark (in respect of the Faroe Islands and Greenland) noted that other "best practices" type papers had been submitted by other representatives in the past and that it might be useful to make them more accessible. The Chair noted that the NAFO Secretariat maintains working papers, so it could track this information down as required. The representative of the EU supported this idea and suggested that a reference site could be created to make these papers more readily available. The Chair suggested that other representatives could provide information on relevant domestic practices, including those regarding procedures for weighing landed catch, to allow NAFO to draw from collective experiences and best practices, and possibly harmonize in the future.

Representatives were encouraged to provide information on relevant enforcement practices to allow STACTIC to benefit from the collective experiences. It was agreed that this issue could be revisited at subsequent meetings.

b) At-Sea Monitoring

At-sea inspection Checklist

The representative of the EU introduced STACTIC WP 10/31, a guidance document outlining a checklist for at-sea inspections. The representative of the EU explained that this was a non-compulsory checklist intended to act as a compliment to the port inspection checklist (STACTIC WP 09/17). He elaborated that in order to maximize the effectiveness of the NAFO inspection scheme, and in the interest of improving the cost/benefit ratio, representatives should reflect on how to work more strategically by focusing on the quality instead of the quantity of inspections.

The representative of Canada voiced support for the concept of minimum standards and guidelines for inspections, so long as the checklist was not overly prescriptive or limiting to the inspection process and still allowed the necessary degree of flexibility.

The Chair inquired as to whether this was based on domestic practices within the EU. The representative confirmed that the elements of the checklist were based on domestic practices.

The representative of Denmark (in respect of the Faroe Islands and Greenland) questioned whether this would form part of the inspection report. The representative of the EU indicated that this checklist was intended solely as guidance and it was not envisaged that it would form part of the inspection report.

It was agreed that this would remain an open item to allow STACTIC to reflect on Contracting Party experiences related to the utilization of the checklists.

Joint Patrols

To further discussions held during the 2010 STACTIC intersessional meeting, and in relation to STACTIC WP 09/15, which proposes procedures for joint inspections, the representative of Canada provided a brief summary of Canada's experiences with joint patrols in 2010. The following key points were enumerated:

- As of this meeting, four joint patrols were conducted (2 with the EU inspectors and 2 with inspectors from the United States) from 2 Canadian patrol vessels operating in the NRA in 2010;
- There were a total of 22 inspections conducted;
- Overall, the joint inspections worked well and were a positive experience;
- Given logistical issues future patrols should be identified in the December preceding the inspections;
- Medical (sea-going) and security clearances must be conducted and submitted well in advance of patrols;
- The ability to communicate effectively in the English language is essential for safety/planning purposes onboard Canadian vessels; and
- Inspectors should arrive sufficiently in advance of patrols to allow for comprehensive briefings and participation in patrol planning.

The representative of the EU thanked Canada for hosting community inspectors, citing that joint inspections provided an opportunity for Contracting Parties to participate in enforcement operations in the NRA when there were no National means available. He reiterated that more work was required on developing protocols/procedures to enhance further joint patrols and noted that the experiences garnered through this "pilot" would be beneficial in that regard.

The representative of Canada noted that those participating in the joint patrols should also be getting credit for having contributed to enforcement operations in the NRA. He also reminded representatives that those thinking of engaging in joint patrols must notify the Executive Secretary prior to deployment.

The representative of the United States also thanked Canada for providing a cost effective means of allowing greater participating in enforcement operations in the NRA and contributing to inspector capacity development. He agreed that joint patrol participants should be acknowledged for their contribution and relevant reports should be documented accordingly.

The representative of the EU noted that the concept of joint inspections should be expanded to include such things as port inspections. The representative of Canada supported this concept.

It was agreed that further reflection was required on the issue of joint inspection protocols and that this item should be revisited at subsequent meetings.

c) Aerial Surveillance

The Chair introduced this standing item on the STACTIC agenda to facilitate discussions related to aerial surveillance in the NRA. No working papers or were submitted under this item. However, the representative of Canada noted that Canada does operate an extensive aerial surveillance program in the NRA which accounts for approximately 295 patrols per year, some in a joint capacity with inspectors from other Contracting Parties. The representative of Canada further suggested that STACTIC should leave this agenda item open to allow for annual reporting of efforts in this regard.

It was agreed that this agenda item would remain open to allow representative to report on aerial surveillance activities and reflect on related issues.

d) Electronic/Satellite/Remote Monitoring

The Chair introduced this standing item on the STACTIC agenda to facilitate discussions related to electronic/satellite/remote monitoring in the NRA. No working papers or discussion items were submitted under this item. The representative of Canada noted that, in future, issues such as VMS and emerging electronic reporting provisions could be discussed under this agenda item.

Representatives agreed to reflect further on possible topics of interest under this agenda item.

6. Review of IUU pursuant to NAFO CEM Article 57.3

The Chair opened the agenda item and asked the NAFO Secretariat to introduce STACTIC WP 10/20. The NAFO Secretariat presented the working paper and indicated that there had been no changes to the IUU lists since the last formal review at the 2010 STACTIC intersessional.

The representative of the EU provided an update on two vessels on the NAFO-NEAFC IUU list, indicating that they were possible candidates for de-listing. The Chair noted that these vessels were placed on the list by NEAFC and accordingly, they should be de-listed by the same organization.

The representative of Norway noted that, while NAFO should have the ability to de-list vessels, it was STACTIC's responsibility to ensure that there was proper documentation supporting removals.

The representative of the EU presented STACTIC WP 10/36, this paper introduces procedural text from the NEAFC *Scheme for Control and Enforcement* outlining eligibility elements for a delisting procedure.

The representatives noted that NAFO should be harmonized with NEAFC on this issue and recognized the practical basis for adopting these provisions.

It was agreed to submit STACTIC WP 10/36 (revised) to the Fisheries Commission for adoption.

7. Joint Inspection and Surveillance Scheme

The Chair remarked that a discussion had taken place on the issue concerning the trend of increased inspection rates on fishing vessels, as tabled at Fisheries Commission during the 2009 NAFO annual meeting. He was not aware of any further developments and opened the floor to comments.

The representative of the EU remarked that if there were no outstanding issues or papers that this agenda item could be deferred to another meeting. The Chair agreed with this view.

The agenda item was closed.

8. Editorial Drafting Group of the NAFO CEM (EDG)

The Chair asked that the EDG provide a progress report on the NAFO CEM editorial drafting initiative and referenced the associated working papers (STACTIC WP 10/27, STACTIC WP 10/28 and STACTIC WP 10/33).

The representative of the EDG provide a brief synopsis of STACTIC WP 10/27, which provided a summary of the groups efforts to date and outlined the proposed next steps. She indicated that phase 1 of the work, addressing the more minor and editorial issues, was nearly complete and that phase 2 would focus on re-ordering the articles/provisions into logical groupings and beginning to address/identify the more substantial issues.

In conducting its editorial work the EDG again identified issues requiring STACTIC guidance. The EDG introduced STACTIC WP 10/28 and sought direction on how to proceed with the issues listed in the working paper. The Chair echoed the sentiments of many of the representatives cautioning the EDG to work through the editorial issues, leaving the substantive issues to STACTIC for resolution. Each issue was reviewed and those items identified as possible substantive questions may be presented to Fisheries Commission for guidance after further reflection by STACTIC at its next intersessional (Annex 2).

As a final part of the work completed by the EDG, STACTIC WP 10/33 was presented. This paper proposed a draft table of contents for the existing annexes to group them in a more logical and thematic (e.g. annexes related to gear grouped together) order.

The representative of the DFG supported the ordering but suggested that the grouping proposed under the "reporting" theme could be separated into obligations of the Master and obligations of the Contracting Party. The representative of the EDG noted that the table of contents would be modified accordingly.

The representative of Canada applauded the EDG for its efforts, however questioned, with phase 1 nearly completed, whether Fisheries Commission guidance should be sought on the more substantive phase 2 components. The Chair advised the EDG to continue its work and focus on completing phase 1 in advance of the 2011 STACTIC intersessional.

It was agreed that:

- The EDG would continue its work in order to provide a final editorial overview for consideration at the 2011 STACTIC intersessional.
- As phase 2 of the editorial review, the EDG would commence work on making suggestions for new measures to be submitted to Fisheries Commission at the 2011 NAFO annual meeting.
- The Fisheries Commission would be provided with a progress report on this initiative, noting the need for another year given the magnitude of the task.

9. Possible revisions of NAFO CEM

a) Duration of an inspection

The Chair introduced the agenda item and reminded representatives that this working paper (STACTIC WP 09/20) had been deferred from the 2010 STACTIC intersessional to allow for further reflection. The representative of Denmark (in respect of the Faroe Islands and Greenland) indicated that he had consulted with industry and it was felt that (3) hours was sufficient, (4) hours could start to become a burden. The representative of the EU indicated that provisions existed within the NAFO CEM's that allowed for stays beyond three hours (e.g. Article 33.10).

The representative of Canada reiterated that given the complexity of inspection under the NAFO inspection scheme the extra hour would be useful and again noted that NEAFC currently had a provision for (4) hour inspections. The representative of Russia supported the Canadian proposal. The representative of the United States also supported the proposal, citing the usefulness of the extra time, especially in the context of joint patrols. The representative of Norway confirmed that the NEAFC *Scheme for Control and Enforcement*, Article 18.5, allowed for (4) hour inspections. Given this, representatives agreed, in the interest of harmonization, to adopt (4) hour inspection in NAFO.

After further reflection it was agreed to forward STACTIC WP 09/20 to the Fisheries Commission for adoption.

b) Product Labelling

The Chair opened the agenda item and noted that there were two Canadian working papers under this item (STACTIC WP 10/25 and STACTIC WP 10/34). The representative of Canada introduced STACTIC WP 10/25 and explained that this paper was a re-write to expand on concepts first introduced in STACTIC WP 09/23. It was explained that the rationale for establishing label standards was to facilitate the inspections process and was deemed necessary in light of operational experiences.

The representative of Norway was surprised to hear that this level of detail was required to address the issue but supported the proposal. The representative of the EU agreed with that labels should be of adequate size and constitution to facilitate inspections, however felt other text may be more effective. The representative of France (in respect of St. Pierre-et-Miquelon) also indicated that the emphasis should be readability and not on size standards.

The representative of Canada introduced the second working paper under this agenda item, STACTIC WP 10/34. This proposal called for the inclusion of labelling violations as serious infringements given the linkage to misrecording. The representative of the EU supported the principle but felt another approach might be more effective in achieving the desired result. The representative of the EU agreed to work with Canada on a revised paper that would address both issues.

Based on discussion and consultation, Canada presented STACTIC WP 10/37. This paper merged the concepts found in the two earlier proposals. The new document amends Article 23 to further emphasis the need for legible labelling and also amends Article 24.2 to create a linkage between labelled product and the catches recorded in the daily production/fishing logbook.

It was agreed that STACTIC WP 10/37 would be submitted to the Fisheries Commission for adoption.

c) Verification of Authorization to Fish

The Chair noted that there were two working papers under this agenda item and asked the representative of Iceland to present STACTIC WP 10/16. The representative of Iceland explained that the purpose of this paper was to introduce the concept of a virtual inspector's portal that would contain the most updated electronic version of

relevant information (e.g. vessel registration, authorization to fish, research plans). He noted that this initiative could be developed in stages and other relevant information could be made available through the portal as the project developed. The portal would be a secure password protected site that could be accessed from sea.

The representative of Denmark (in respect of the Faroe Islands and Greenland) supported the concept but indicated some issues would need to be resolved (e.g. vague wording in Article 20 Vessel Register). The representative of Canada also supported the concept noting that a one-stop shop for inspectors would be desirable but that there still remains much design and development work to implement this initiative. He also noted that connectivity for all users would need to be addressed and indicated that while awaiting development of the portal, STACTIC WP 09/24 could be supported in the interim. The representative of Norway indicated that it has dispensed with the paper process and it would be undesirable to return to this practice. The representative of Iceland supported this position and noted that connectivity at sea was no longer an issue.

The Chair thanked the representative of Iceland for the paper and inquired as to the potential cost implications. The NAFO Secretariat indicated that they would welcome the opportunity to develop such a portal but indicated that there would be systemic and resource implications with respect to implementing this concept. The representative of Iceland indicated that NEAFC had implemented a lesser, but similar system and wondered if those experiences could not be exploited. He further elaborated that this system could be implemented in stages given the complexity. The NAFO Secretariat indicated that they had consulted with NEAFC on its system and discovered it had taken several years to complete the work in its entirety. The representative of Canada suggested that it might be useful if the NAFO Secretariat developed a workplan with options and cost implications for presentation to STACTIC. The representative of the EU supported the Canadian suggestion. The Chair directed the NAFO Secretariat to reflect further on this issue and report back to STACTIC at the next meeting.

It was agreed that the NAFO Secretariat would develop a working paper to present at the 2011 STACTIC intersessional meeting.

d) Shrimp Strengthening Bags

The Chair introduced the agenda item and asked Canada to explain the revisions to this working paper that was originally presented at the 2009 annual meeting as STACTIC WP 09/25. The representative of Canada introduced STACTIC WP 10/24 and noted that the changes requested during the 2010 STACTIC intersessional had been incorporated. The representative of the EU supported the proposal, but noted that the term "sorting grid/grate" should be used instead of "separator grate" to be consistent with what is found in the NAFO CEM's. The representative of Denmark (in respect of the Faroe Islands and Greenland) made some minor wording suggestions in the interest of clarity.

Canada presented a revised working paper that incorporated these editorial changes, and it was agreed to forward this working paper to the Fisheries Commission for adoption.

It was agreed that STACTIC WP 10/24 (Rev.) would be submitted to the Fisheries Commission for adoption.

e) Retrieval of the net

The Chair opened the agenda item and asked Canada to elaborate on STACTIC WP 09/26. The representative of Canada remarked, based on an intervention by Norway, he now recognized that this proposal would make the provision contained with the NAFO CEM's inconsistent with what was in place within the NEAFC *Scheme for Control and Enforcement* and agreed to withdraw the proposal, especially in light of the adoption of STACTIC WP 09/20 which aimed to harmonize NAFO and NEAFC measures.

The working paper was withdrawn and this item was closed.

f) By-catch requirements

The Chair opened the agenda item and invited the EU to explain the rationale for STACTIC WP 10/7. The representative of the EU explained that the bycatch provision, Article 12.1 d), adopted at the 2009 annual meeting is inappropriate and added a level of complexity to an already complicated bycatch regime and was, in his estimation, impractical to implement. The representative of Russia supported this position.

The representative of Canada noted that this provision was only just adopted last year by the Fisheries Commission, specifically in relation to newly re-opened fisheries that had been under moratoria. He indicated that this provision was consistent with existing management provisions.

The representative of the EU argued that this provision mixed the concept of fishing under a quota and fishing under by-catch tolerances and required fisheries managers to invent a date to halt fishing to avoid quota overruns. The representative of Norway remarked that the adopted provision was logical and that it was the obligation of the Contracting Party to manage within its quota. Elaborating further the representative of Norway indicated that depending on the available quota, and prevailing circumstances, a Contracting Party would have to choose between allocating the full quota, allocating only a partial quota to allow for some by-catch in other fisheries and finally not allocating any quota to provide for high by-catch rates in other fisheries.

Several Contracting Parties expressed their apprehensions about exploring the removal of this newly introduced provision, noting the need to further consult with their respective delegations.

It was agreed that:

• The Chair would report to the Fisheries Commission that, while it was recognized that this was a fisheries management issue, some STACTIC representatives expressed concerns that the implementation of this provision was problematic and may add confusion in the management of the fisheries.

g) Chartering arrangements

The Chair opened this agenda item and requested the representative of the EU present STACTIC WP 10/8 concerning requiring that documentation be retained on board the vessel concerning the chartering arrangement. It was explained that the purpose of this working paper was to facilitate the work of at-sea inspectors in the short-term. This topic was also discussed in concert with the broad level discussion on electronic reporting, and the desire to move towards a more electronic means of documentation (see STACTIC WP 10/16 presented by Iceland) in the mid-to longer term.

The representative of Canada noted that the short-term solution was to require that this information be retained on board, while the long-term solution would be to have it available to Contracting Parties electronically, in real-time. The NAFO Secretariat noted that this information was currently available on the NAFO website. The representative of Canada further noted that not all Contracting Parties may have electronic capabilities on board their inspection vessels, and it may be useful to have a document on board to facilitate inspection. The representative from the United States remarked that the charter vessel should at a minimum carry a copy of the consent letter referenced under NAFO CEM Article 19.7. The Secretariat clarified that there are two consent letters, one from the Chartering Contracting Party and one from the flag State Contracting Party. It was agreed that both consent letters should be carried on board the vessel. The representative of the EU agreed to revise STACTIC WP 10/8 in light of these comments. Following presentation of this revised working paper, there was general agreement that STACTIC WP 10/8 (Rev 2) be forwarded to the Fisheries Commission for adoption.

It was agreed that STACTIC WP 10/8 Rev.2 would be submitted to the Fisheries Commission for adoption.

h) Communication of Catches

The Chair opened the agenda item and noted there were a number of proposals pertaining to this issue. The representative of Iceland introduced STACTIC WP 10/17, a discussion paper that provided clarification on report types and proper sequencing of messages. The Chair thanked Iceland for the paper and noted that this document would provide good context for subsequent discussion on reporting.

The representative of the EU provided a detailed summary and rationale for the EU's proposal on daily communication of catch (STACTIC WP 10/9). Representatives all agreed on the merit of adopting daily reporting, in the interest of both simplifying reporting requirements and to provide enhanced monitoring capability. A comprehensive discussion ensued on the benefits and systemic issues related to the elements of the proposal. The representatives, particularly those of Iceland, the EU and Russia were able to successfully merge multiple concepts and resolve the various technical issues to arrive at a modified proposal that was acceptable to all parties.

The representative of Iceland explained that regardless of the frequency of catch reports, the catch reported under the CA data element is always the catch taken since the last communication of catches.

It was agreed that new codes would be submitted to the AGDC for verification via the NAFO Secretariat.

The Chair remarked that the extent and breadth of the discussions reflected the complexity and importance of the issue and was pleased that STACTIC was able to advance this working paper.

It was agreed to submit STACTIC WP 10/9 (Rev.5) the Fisheries Commission for adoption.

i) Report on Infringements

As requested at the 2010 STACTIC intersessional, the NAFO Secretariat produced a draft template for an electronic notification form (STACTIC WP 10/19) that would be used by Contracting Parties to report on infringements. While there was general support for the proposed template, the representative of the United States noted that the field entitled "Second Sea Inspection" should have additional text indicating "as applicable". The representative of Canada also supported the form, but noted the use of the term "confirmation", under the "Second Sea Inspection" and "Port Inspection" fields, and remarked that this was not appropriate given that no such process existed within the NCEM's. It was suggested that this text be removed and no example be provided. The representative of the EU noted that this term was simply intended to reflect the follow-up that occurs to an infringement, but acknowledged that "confirmation" was not appropriate.

The NAFO Secretariat noted the comments and provided a revised working paper that addressed the identified issues.

It was agreed to submit STACTIC WP 10/19 (Rev.) to the Fisheries Commission for adoption.

j) COX message and CANCEL report

The Chair opened this agenda item and asked the representative of Russia to introduce STACTIC WP 10/15. The representative of Russia indicated that there were two parts to this proposal. The first part was intended to facilitate inspections by adding a field OB (onboard) to the COX report that represents that actual catch on board the vessel (to account for any catch that was acquired or offloaded via transhipment). The second part was conceived to provide a means for allowing the cancellation of erroneous catch reports through the implementation of a "cancel" report.

The representative from the EU noted that the essence of the first part of Russia's proposal, related to COX messages, was addressed within the EU proposal STACTIC WP 10/9 (Rev. 5) and could be removed from this proposal. The representative of Russia agreed with this suggestion.

The representative from the EU then noted his support for the "cancel" report concept, but expressed his view that this message should not come from the vessel Master, but rather the FMC. The representative from Canada echoed this sentiment, explaining that while he understood the need for the cancel report, he also recognized that this provision could be negatively exploited by vessel Masters. Accordingly, the representative of Canada supported the EU's recommendation that the "cancel" reports should only be submitted from a Contracting Parties FMC.

The representative of Russia agreed to modify their proposal to address the comments of Canada and the EU. This revised proposal was later presented as STACTIC WP 10/15 (Rev). While there was general agreement that this proposal should be adopted, on the advice of the representative of Iceland, it was suggested that Russia should first submit this to the Advisory Group on Data Communication (AGDC) to facilitate harmonization between the linked NAFO and NEAFC systems.

It was agreed that NAFO Secretariat would submit the revised proposal on "Cancel" messages to the AGDC to solicit its views on how best to adopt the proposal for use in both NAFO and NEAFC.

k) Port State Control (pre-notification of arrival in port)

The Chair opened the agenda item and asked the representative of the EU to introduce STACTIC WP 10/30, a proposal that would enable a vessel to provide portion "A" of PSC 1 or 2 at the latest (1) day in advance of the estimated time of arrival instead of the current (3) days. It was noted that the pre-notification of the estimated time of arrival is still to be submitted (3) days prior to landing or transhipment. The representative of the EU noted that when the fishing grounds are in close proximity to a designated port the quantity provided (3) days in advance is likely an estimate as the vessel will continue fishing prior to entry. This creates the need to send a second form to amend the original PSC form. The representative of Japan supported the proposal.

The representative of Iceland indicated that, under Article 46.2, a derogation already exists that allows a port State to identify a different pre-notification period. He also noted that pre-notification exists to provide the opportunity to verify the catch with the flag State. The representative of Canada agreed with the Icelandic intervention, noting in

practice that Canada has permitted shorter pre-notification periods. The representative of Canada also indicated that pre-notification was necessary to allow for proper inspection planning.

The representative of Norway indicated that a similar scenario exists in Norway, where Russian vessels are active in fishing grounds that are in close proximity to port. He noted that, as in NAFO, the NEAFC measures provide Contracting Parties with the necessary flexibility to address this issue bilaterally.

The representative of the EU noted that this derogation was not compulsory and forced the need to negotiate bilateral arrangements, which creates an unnecessary administrative burden. The representative of Iceland noted that NAFO and NEAFC currently employed harmonized port State control schemes and changes to this article would affect this balance. The representative of Russia agreed with the Icelandic and Norwegian views and noted that the current port state control schemes were working well in both organizations.

The Chair encouraged Contracting Parties to work collaboratively in establishing practical pre-notification periods within the purview of the established Port State Control Scheme. After further reflection the EU agreed to withdraw STACTIC WP 10/30 based on the comments of the other representatives.

It was agreed that STACTIC WP 10/30 would be withdrawn and the agenda item was closed.

1) Product Form Codes

The Chair opened the agenda item and asked the representative of the EU to introduce STACTIC WP 10/32, a proposal calling for an amendment to the existing product form codes in the NAFO CEM's Annex XX (c). The representative of the EU noted that the existing codes within Annex XX (c) were insufficient to cover some of the product forms currently utilized in the NRA. The representative of Denmark (in respect of the Faroe Islands and Greenland) inquired as to the origin of these codes. The representative of the EU indicated that these were taken from established FAO 3-apha codes and added that others could be added from the FAO list if necessary. The Chair noted the potential need to make similar changes in NEAFC to ensure ongoing harmonization of these codes.

The representative of Canada indicated that he had no issues with expanding the number of codes but questioned the technical implication of moving from a single alpha code to a 3-alpha code. The representative of Norway agreed that there could be data issues and suggested that this matter be tabled at the next meeting of NEAFC's AGDC. The Chair supported Norway's suggestion given the possible implications in NAFO and NEAFC.

It was agreed that the NAFO Secretariat would forward this issue to the AGDC.

10. Observers Scheme - NCEM Chapter VII and Article 28

The Chair noted that there were two working papers under this agenda item and asked the NAFO Secretariat to provide an overview of STACTIC WP 10/22, the preliminary evaluation of the effectiveness of implementation of Chapter VII. The NAFO Secretariat outlined the approach taken in conducting this evaluation and solicited comments and questions from the representatives.

The representative of the EU suggested that this agenda item be structure to deal with three items:

- 1. Evaluation of NAFO CEM's Chapter VII;
- 2. Identification of items to submit to the attention of the AGDC.
- 3. Observer Program discussion; and

The Chair noted the EU's suggested approach and opened the floor to comments.

The representative of the EU thanked the NAFO Secretariat for this factual report and expressed the view that it was clearly demonstrated that Chapter VII is in need of a major revision. He expressed the view that this item should be discussed within the broader context of full electronic reporting system in the AGDC. He asked the Chair to request that the AGDC to initiate a discussion on the electronic reporting system at its next session.

In the context of STACTIC WP 10/22, the representative from Canada inquired as to why only 13 out of 25 fishing periods under this alternative Observer scheme were found to be compliant. The representative of Denmark (in respect of the Faroe Islands and Greenland) offered practical explanations for some of the missing reports from his vessels. The Secretariat explained that compliance determination under this evaluation was based on an examination of individual vessel compliance with reporting requirements across all trips by that Contracting Party. The

representative from the United States questioned whether this was an appropriate means of determining compliance with these provisions.

The representative of Iceland provided some background on the evolution of NAFO CEM's Chapter VII and noted that compliance was to be assessed by reviewing both the reporting requirements, and the content of messages when an Observer was onboard a vessel and when an Observer was not onboard. He remarked that compliance to these provisions was not an issue for the AGDC.

The Chair acknowledge the general sentiment within STACTIC that the provisions contained with NAFO CEM's Chapter VII were not overly functional or effective and that they would soon be rendered obsolete by advances in electronic reporting, such as daily reporting. On this note, the discussion concerning the evaluation of the alternative Observer scheme was concluded.

On the issue of potential items that could be brought to the attention of the AGDC, the representative of the EU sought agreement by representatives to initiate a discussion in the AGDC on the implementation of a broader electronic reporting system, in the medium term, to promote a more reliable and effective enforcement scheme.

The Chair then requested that the EU present STACTIC WP 10/29, a discussion paper that suggested extensive changes to the current Observer scheme. The representative of the EU outlined the philosophy behind the discussion paper, reiterating the EU's position that the current Observer scheme was costly and ineffective.

The representative of Canada noted that Observers are an internationally recognized enforcement tool and that Canada currently operates an extensive Observer program, both domestically and within the NRA, which is viewed as an effective component in Canada's enforcement scheme. He suggested that, given the sentiments expressed by the EU, a possible way forward could be the establishment of a working group comprised of enforcement, science and fisheries management experts. The representative of the United States supported the Canadian comments.

The representative of the EU suggested the Scientific Council should be questioned on the usefulness of the compliance Observer program to scientific initiatives. The Chair noted the suggested and it was agreed that Scientific Council would be approached on this issue.

It was agreed that:

- Further reflection was required on NAFO CEM's Chapter VII, including how other electronic reporting provisions could be explored to replace the current scheme.
- Scientific Council would be consulted on usefulness of Observer reports to its various initiatives and what, if any, negative scientific impacts could come from reductions/elimination of a scientific observer program.
- STACTIC would continue to reflect on the merit and effectiveness of the current Observer scheme.
- The NAFO Secretariat would forward a request to the AGDC to initiate a discussion on the electronic reporting system at its next session.

11. Other matters

a) Contingency plans in the case of force majeure

The Chair noted that, given the infrequency of this issue there was no urgency in addressing this issue, but remarked that it would be prudent to develop procedures at some point.

The representative of Iceland voiced concerns that, in the absence of clear procedures, issues may be advanced in the absence of interested Contracting Parties being present. He recommended postponing discussion on important items in these cases. The representative of the United States acknowledged these concerns, but noted that this would not be an issue if the meeting was cancelled or postponed, it would only be relevant in cases were a meeting was convened with less that the usual compliment of Contracting Parties.

The representative of Canada noted that another international organization, the IMCS Network, was recently faced with the same situation and elected to cancel the meeting. He noted that circumstances would often dictate the appropriate action.

The Chair instructed representatives to reflect further on the issue so that a way forward could be determined.

It was agreed that STACTIC would reflect further on the issue and revisit it at the 2011 STACTIC intersessional meeting.

b) Conservation and Management of Sharks (Article 17)

The Chair opened the discussions, presented the NAFO Secretariat's compilation of information related to sharks and encouraged representatives to provide views related to compliance with the shark conservation and management provisions.

The EU remarked that, based on available information, sharks did not appear to pose a compliance concern in the NRA and noted information from the full NAFO Convention area may be useful for the purposes of this exercise. He noted that, based on the discussions under this agenda item it was clear that the reporting rules were not sufficient and work should be undertaken to improve the provisions.

The representative of the United States questioned whether Contracting Parties were complying with the reporting provisions of Article 17. The NAFO Secretariat confirmed that reports were being received from Contracting Parties pursuant to Article 17, although few references to sharks had been noted.

The representative of Canada reported that Canadian NAFO inspectors had witnessed only limited shark activity in the NRA and that there were no compliance issues of concern. He noted that sharks were occasionally captured inadvertently as bycatch, however in Canada's experience they were being discarded.

The representative of Denmark (in respect of the Faroe Islands and Greenland) noted that the reporting provisions linked with Article 17 were less than ideal for capturing information pertaining to sharks as they generally called for information pertaining to catch "onboard", and most sharks in the NRA were being discarded. She also noted that the provisions contained within Article 17 should also be reviewed and updated, as appropriate, to reflect advances in shark management.

It was agreed that:

- Fisheries Commission would be advised that there were no identified compliance issues related to the provisions of NAFO CEM's Article 17.
- Representatives would reflect further on potential reporting improvements with the view to enhancing the provisions of Article 17.

c) Article 15 – Area and Time Restrictions

The representative of Denmark (in respect of the Faroe Islands and Greenland) presented STACTIC WP 10/35 and explained that its purpose was to align the coordinates provided under NAFO CEM's Article 15.2 with the spirit of the provision. The representative of Norway indicated that it could support the concept if it indeed brought harmony between the spirit of the provisions and the coordinates. The representative of Canada supported Norway's viewed but noted that the proposed (3) coordinates would need to be verified to ensure they were consistent with the text of the current measures and encouraged adding additional coordinates to better reflect the 200 meter contour.

It was agreed that:

- Further consultation is required to ensure the spirit of NAFO CEM Article 15.2 was respected.
- Denmark (in respect of the Faroe Islands and Greenland) will submit a revised working paper at the 2011 STACTIC intersessional meeting.

d) STACTIC Working Papers submitted for adoption

The following table contains a list of STACTIC Working Papers forwarded to the Fisheries Commission for adoption:

STACTIC W. P.	TITLE
09/20	Discussion Paper on "Duration of Inspections"
09/21 (Rev. 2)	Discussion Paper on "Inspection Party Composition: Article 33 (4)
10/8 (Rev. 2)	Discussion paper on "Chartering Arrangements" - NAFO CEM - Article 19
10/9 (Rev. 5)	Discussion paper on "Daily Communication of Catches" - NAFO CEM Article 27 +
	Annex X + Annex XXII
10/10	Discussion Paper on "Notification Requirements" NCEM Article 30
10/11 (Rev. 2)	Discussion Paper on "Report on Infringements" NCEM Article 42
10/19 (Rev.)	Template for "Report on Infringement" Form
10/23	PSC 3 Report Form
10/24 (Rev.)	Discussion Paper on "Shrimp Strengthening Bags"
10/26	Annual Compliance Review 2010
10/36 (Rev.)	Discussion paper on "Delisting procedure for IUU vessels"- NAFO CEM Article 57
10/37	Minimum Standards for Product Labelling under Article 23 and Labelling shall
	Accurately reflect Logbook Records under Article 24

12. Election of Chair

Representatives acknowledged the excellent work of Mads Nedergaard (Denmark in respect of the Faroe Islands and Greenland), who has served as STACTIC Chair for two consecutive terms, and thanked him for his professionalism during his tenure.

Gene Martin (United States) was appointed Chair of STACTIC.

Stein-Åage Johnsen (Norway) was appointed as Vice-Chair.

13. Time and Place of next meeting

The Chair opened the agenda item and expressed a strong desire to take advantage of the cost savings and economies of having the STACTIC intersessional meeting take place in association with the NEAFC PECCOE and the AGDC meetings. The representative of Canada reiterated comments made during its opening statement in General Council that controlling costs for the NAFO Secretariat was important and Contracting Parties should keep this in mind when selecting a venue for the STACTIC intersessional meeting.

The representative of the EU also supported the view expressed by the Chair, however noted that should this proposal not be possible in 2011, Estonia was willing to host the next STACTIC intersessional, at a time and place to be determined. He also expressed a wish to continue conducting the meeting in the month of May to allow for adequate time in advance of the NAFO annual meeting.

The representative of Iceland agreed with the benefits to be derived from having the various meeting take place around the same time, in the same location. In the event that this was not possible however, he reiterated Iceland's view, expressed in STACTIC WP 9/16, that in the interest of cost savings and convenience, the STACTIC intersessional meeting should take place in either the NAFO facilitates in Dartmouth, or at a centrally located European venue.

It was agreed NEAFC would be engaged on this issue and that efforts would be made to conduct the STACTIC intersessional meeting in close coordination with the PECCOE and AGDC meetings. The default location will be at the NAFO Secretariat offices in Dartmouth, Canada.

14. Adoption of Report

The report was adopted by the representatives.

15. Adjournment

The meeting adjourned at 12:20 hrs on Thursday, September 23rd 2010.

Annex 1. Agenda

- 1. Opening by the Chair, Mads Nedergaard, Denmark (in respect of the Faroe Islands and Greenland)
- 2. Appointment of Rapporteur
- 3. Adoption of Agenda
- 4. Compliance review 2009 including review of reports of apparent infringements
- 5. Review and evaluation of NAFO Compliance objectives
 - a) In-Port/Land based Monitoring
 - b) At-Sea Monitoring
 - c) Aerial Surveillance
 - d) Electronic/Satellite/Remote Monitoring
- 6. Review of current IUU List pursuant to NAFO CEM Article 57.3
- 7. Joint Inspection and Surveillance Scheme
- 8. Editorial Drafting Group of the NAFO CEM (EDG)
- 9. Possible revisions of NAFO CEM
 - a) Duration of an inspection
 - b) Product Labelling
 - c) Verification of Authorization to Fish
 - d) Shrimp Strengthening Bags
 - e) Retrieval of the net
 - f) By-catch requirements
 - g) Chartering arrangements
 - h) Communication of Catches
 - i) Report on Infringements
 - j) COX message and CANCEL report
 - k) Port State Control (pre-notification of arrival in port)
 - 1) Product Form Codes
- 10. Observers Scheme NCEM Chapter VII and Article 28
- 11. Other matters
 - a) Contingency plans in the case of force majeure
 - b) Conservation and Management of Sharks
 - c) Article 15 Area and Time Restrictions
 - d) STACTIC Working Papers submitted for adoption
- 12. Election of Chair
- 13. Time and Place of the next STACTIC Meeting
- 14. Adoption of Report
- 15. Adjournment

Annex 2. Outstanding Issues Presented by the EDG

The following determinations were made:

1. Under Article 14.1 (minimum fish size), should the 5 nautical mile move provision be changed to 10 nautical miles to be consistent with by-catch provisions?

Determination: Requires further reflection.

2. Does Article 14.3 (minimum fish size exemption since Canadian vessels required to land all catches) apply to any other CPs?

Determination: Requires further reflection.

3. Which protocol is being referred to under Article 15.8 (area and time restrictions)? The exploratory fishing protocol?

Determination: Requires guidance from Fisheries Commission/Scientific Council.

4. Which duties/responsibilities are transferred from chartering CP to flag state CP when a charter takes place (Article 19.5)?

Determination: Only those outlined in Article 19.5.

5. What is intent of including reference to bycatches in Article 19.11 (chartering arrangements), and to who's quota does such by-catch get counted against?

Determination: Contracting Party with the quota - as is the reporting practice. Representative of the EU questioned why chartering exists when quota transfer process in place – further reflection required.

6. Should chartering compliance report referenced in Article 19.13 be included in general compliance report generated by STACTIC?

Determination: Presented directly to Fisheries Commission as required, thus no need to incorporate into Compliance Report.

7. In Article 20.1, there is not clear definition for "operate." For example, "...authorized to operate in the Regulatory Area..." Does this mean fishing, transiting, or both? EDG suggests that a definition be developed and incorporated into the definitions section of the CEMs.

Determination: Definition should be developed - requires further reflection.

8. A practical approach needs to be developed concerning "wet fish" under Article 23 (product labeling requirements)? Is it the will of STACTIC for the EDG to develop such an approach?

Determination: Canada agreed to draft a proposal on this issue.

9. The issue of whether all required documents should be available on board vessel to inspectors issue needs further consideration – taking into consideration Iceland is preparing a working paper on electronic methods of data exchange for the September 2010 STACTIC meeting.

Determination: Defer to Icelandic discussion paper on this issue.