Serial No. N7021 NAFO/COM Doc. 19-34

Northwest Atlantic Fisheries Organization

Report of the NAFO Commission and its Subsidiary Bodies (STACTIC and STACFAD)

41st Annual Meeting of NAFO
23-27 September 2019
Bordeaux, France

NAFO
Dartmouth, Nova Scotia, Canada
2019

Report of the NAFO Commission and its Subsidiary Bodies (STACTIC and STACFAD)

41st Annual Meeting of NAFO, 23-27 September 2019
Bordeaux, France

PART I.
Report of the NAFO Commission and its Subsidiary Bodies (STACTIC and STACFAD)

41st Annual Meeting of NAFO, 23-27 September 2019
Bordeaux, France

I. Opening Procedure

1. Opening by the Chair

The 41st Annual Meeting of NAFO was opened on Monday, 23 September 2019 at 09:30 hrs at the Hôtel Pullman Bordeaux Lac in Bordeaux, France, with delegates present from 12 NAFO Contracting Parties (Annex 3). The NAFO President and Chair of the Commission, Stéphane Artano (France, in respect of St. Pierre et Miquelon), welcomed delegates to the meeting.

Mr. Frederic Guedar Delahaye, the Director General for Fisheries and Aquaculture of France, was invited to introduce Mr. Didier Guillaume, Minister of Agriculture and Food, Government of France, to welcome Contracting Parties as the host of the 41st NAFO Annual Meeting (Annex 4). Following the Minister's address, the Commission Chair made his opening statement (Annex 5).

Consistent with past practice, Contracting Parties agreed to submit their opening statements in writing for inclusion in the report. Opening statements from Canada, Denmark (in respect of the Faroe Islands and Greenland), European Union, Japan, Russian Federation and the United States of America (USA) are attached (Annexes 6-11).

2. Appointment of Rapporteur

The NAFO Secretariat (Fred Kingston, Executive Secretary, and Ricardo Federizon, Senior Fisheries Management Coordinator) was appointed as Rapporteur.

3. Adoption of Agenda

The provisional agenda previously circulated was revised with the following additions:

- Witch flounder in Division 3L as agenda item 21.h,
- Redfish in Division 3LN as agenda item 21.i, and
- Splendid alfonsino in Subarea 6 as agenda item 22.a.

The adopted agenda is presented in Annex 2.

The summary of decisions and actions taken by the NAFO Commission is presented in Annex 1.

4. Admission of Observers

Upon the invitation of the Executive Secretary, in accordance with the NAFO Rules for Observers, the following intergovernmental organizations (IGOs) attended this meeting:

- Food and Agricultural Organization of the United Nations (FAO);
- International Council for the Exploration of the Sea (ICES);
- Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) represented by the Delegation of the European Union;

- North East Atlantic Fisheries Commission (NEAFC) represented by the Delegation of Denmark (in respect of Faroe Islands and Greenland);
- South East Atlantic Fisheries Organisation (SEAFO) represented by the Delegation of the European Union; and
- South Pacific Regional Fisheries Management Organisation (SPRFMO) represented by the Delegation of Denmark (in respect of Faroe Islands and Greenland).

Non-governmental organizations (NGOs) accredited with NAFO Observer Status that attended the 41st Annual Meeting were:

- The Deep Sea Conservation Coalition;
- Ecology Action Centre (EAC) (Opening Statement – Annex 12); and
- Oceans North (Opening Statement – Annex 13).

5. Publicity

In accordance with established practice, Contracting Parties agreed that no public statements would be made until after the conclusion of the meeting when a press release would be prepared by the Executive Secretary in consultation with the Chairs of the Commission and Scientific Council.

II. Supervision and Coordination of the Organizational, Administrative and Other Internal Affairs

6. Review of Membership of the Commission

The membership of the Commission has not changed since the 2018 Annual Meeting and is currently comprised of twelve (12) Contracting Parties: Canada, Cuba, Denmark (in respect of the Faroe Islands and Greenland), European Union (EU), France (in respect of St. Pierre et Miquelon), Iceland, Japan, Norway, Republic of Korea, Russian Federation, Ukraine and the United States of America (USA).

7. Administrative Report

The Administrative Report and Financial Statements (COM Doc. 19-06) was referred to STACFAD for its review.

8. NAFO Headquarters Agreement

The Executive Secretary reported that the NAFO Headquarters Agreement, as referred to under Article V.3 of the NAFO Convention, was signed by the Government of Canada on 05 June 2019 and the NAFO President on 13 June 2019. The signed Agreement was circulated to Contracting Parties in NAFO/19-162 on 18 June 2019.

Canada reported that, under its procedures for the ratification of international agreements, the signed Headquarters Agreement must be tabled in the Canadian House of Commons in accordance with parliamentary procedure. Once completed, it is expected that the agreement will be ratified by the Government of Canada and enter-into-force in the spring of 2020.

9. Review of the list of experts to serve as panelists under the NAFO Dispute Settlement provisions

The Executive Secretary introduced COM Working Paper 19-02 that listed, as of 30 August 2019, the experts nominated by Contracting Parties to serve as possible panelists in an ad hoc panel established under the dispute settlement provisions of the NAFO Convention (Article XV).

10. Guidance to STACFAD necessary for them to complete their work

The issue of the implementation of the 2018 Performance Review Recommendations (to be discussed under agenda item 15) was already included in the STACFAD's provisional agenda. The Chair of STACFAD, Deirdre Warner-Kramer (USA), was invited to prepare a report before the closing session.

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

The Chair of STACTIC, Judy Dwyer (Canada), presented the results of the STACTIC May 2019 intersessional meeting, which was held in Lisbon, Portugal (COM Doc. 19-04). The Chair reported on the status of proposals for changes to the NAFO Conservation and Enforcement Measures (CEM). The Chair advised that STACTIC continues deliberations on its work related to, among others, compliance review, bycatch thresholds and move-away provision, serious repeat offenders, transparency, and the enhancement to the NAFO Monitoring, Control and Surveillance (MCS) website.

The Commission commended STACTIC for its hard work and encouraged STACTIC to continue working on the pending issues.

The Commission **accepted** the report. The formal adoption of the recommendations contained therein was done under agenda item 28.

In addition, the Commission informed STACTIC about the adoption of the proposal pertaining to the implementation of the FAO Port State Measures Agreement (FAO-PSMA) (see agenda item 29).

III. Coordination of External Affairs

12. Report of Executive Secretary on External Meetings

The Executive Secretary referred to sections 11 and 12 of the Administrative Report (COM Doc. 19-06) and highlighted some of the external meetings that members of the Secretariat participated in since the last Annual Meeting, including:

- Fourth Steering Committee Meeting, ABNJ Deep Seas Project, La Réunion, France, 23–25 January 2018;
- Workshop and Fourth Joint Meeting of the Sargasso Sea Commission and Hamilton Declaration Signatories, St. George's, Bermuda, 13–14 March 2019;
- 1st Preparatory Meeting of the Western Central Atlantic Fishery Commission (WECAFC) Reorientation, Bridgetown, Barbados, 25–26 March 2019;
- FAO Deep Sea Fisheries Rights Based Management Workshop, FAO Headquarters, Rome, Italy, 10–12 April 2019;
- Fourteenth round of Informal Consultations on "*Performance reviews of regional fisheries management organizations and arrangements*", UN Headquarters, New York, New York, United States of America, 02–03 May 2019;
- Global Deep-Sea Symposium – ABNJ Deep Seas Project, FAO Headquarters, Rome, Italy, 07–09 May 2019; and
- Third session of the BBNJ Intergovernmental Conference, UN Headquarters, New York, New York, United States of America, 19 to 30 August 2019

13. International Relations

a. Relations with other International Organizations

The Executive Secretary introduced COM WP 19-03, which outlined contacts the NAFO Secretariat has had with other international organizations since the last Annual Meeting. In addition to already-established links with the United Nations - Food and Agricultural Organization (FAO) and the United Nations Division for Ocean Affairs and the Law of the Sea (UN-DOALOS), the Executive Secretary reported that the Secretariat has used meetings organized by the FAO under the Areas Beyond National Jurisdiction (ABNJ) Deep Seas Project to further dialogue with other relevant organizations that are partners to the project, including other RFMOs. The project has also recently supported exchanges amongst deep sea RFMOs, including sending the Science Manager of the NPFC to observe the June 2019 meeting of the NAFO Scientific Council and sending NAFO's Fisheries Information Administrator to assist the SIOFA Secretariat and to train rapporteurs at SIOFA's Compliance Committee Meeting and Sixth Meeting of the Parties (27 June–05 July 2019).

Concerning relations with the International Seabed Authority (ISA), the Executive Secretary said that the ISA had recently proposed suggestions for further exploring cooperation through "*an informal dialogue and exchange of non-confidential information on matters of mutually beneficial interest to promote a better understanding of each organization's activities*". This proposal was discussed at the recent joint COM-SC Working Group on the Ecosystem Approach Framework to Fisheries Management (WG-EAFFM) and the Working Group's recommendation on this proposal will be presented under agenda item 17.c.

Finally, the Executive Secretary reported that he had attended the fourteenth round of Informal Consultations concerning the United Nations Fish Stocks Agreement (UNFSA) organized by UN-DOALOS, focusing on the topic of "*Performance reviews of regional fisheries management organizations and arrangements*", at the UN Headquarters in New York, and gave a presentation on NAFO's 2018 performance review process. The Executive Secretary also gave presentations on NAFO at a meeting organized by the Sargasso Sea Commission, entitled "*Next steps for stewardship of the Sargasso Sea*" and at a meeting organized by the Western Central Atlantic Fishery Commission (WECAFC) at its first preparatory meeting concerning the possible transformation of WECAFC into a RFMO.

The Executive Secretary also introduced COM WP 19-04 (Revised) concerning the ongoing Intergovernmental Conference under the auspices of the United Nations to elaborate the text of an international legally binding instrument under the United Nations Convention on the Law of Sea on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction, the so-called BBNJ negotiations. He reported that he attended the first four days of the third negotiating session (19–30 August 2019) and participated as a panelist in a side event organized by the FAO. The fourth (and final) session is expected to take place from 23 March to 03 April 2020 at the UN Headquarters in New York. The Executive Secretary noted the importance of these negotiations, the results of which could significantly affect high seas fisheries and the role of RFMOs, particularly in the areas of governance, area-based management tools and environmental impact assessments. He encouraged Contracting Parties to participate actively in these negotiations to ensure their interests are adequately considered.

b. NAFO Members as Observers to External Meetings

At the last Annual Meeting (September 2018), it was agreed that the following NAFO Contracting Parties would represent NAFO at meetings of the following organizations during 2018/2019:

- Canada would represent NAFO at the North Atlantic Salmon Conservation Organization (NASCO) and the North Pacific Fisheries Commission (NPFC).
- Denmark (in respect of the Faroe Islands and Greenland) would represent NAFO at the North East Atlantic Fisheries Commission (NEAFC).
- European Union would represent NAFO at the International Commission for the Conservation of Atlantic Tunas (ICCAT) and South Indian Ocean Fisheries Agreement (SIOFA).

- Norway would represent NAFO at the South East Atlantic Fishery Organisation (SEAFO) and the North Atlantic Marine Mammal Commission (NAMMCO).
- USA would represent NAFO at the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR), the North Pacific Anadromous Fish Commission (NPAFC) and the South Pacific Regional Fisheries Management Organization (SPRFMO).

The reports by these Observers were presented (COM WP 19-05 to COM WP 19-14). The same Contracting Parties agreed to represent NAFO at the same meetings for 2020.

Concerning the NPFC, the European Union expressed disappointment that its application to accede to the NPFC has not yet been accepted.

c. Areas Beyond National Jurisdiction (ABNJ) Deep-Seas Project

William Emerson (FAO) presented an update on the recent activities under this project (COM WP 19-15 and COM WP 19-28), which is in its final year. He recalled that NAFO was one of the many partners to this project. NAFO's support to the project was mainly an estimated in-kind contribution of US$2.1 million over the period of 2014-2019. The Executive Secretary added that this in-kind contribution was mainly staff time for activities and meeting expenses for work on deep-sea fisheries, particularly related to NAFO's work on the development of its ecosystem approach framework to fisheries management, as well as administrative expenses for NAFO's current core activities and operations that are of direct relevance to deep sea fisheries. Almost all the costs that have been incurred to date have been part of the regular work of NAFO.

The FAO also informed that it is preparing to apply for funding to continue the project for another 5 years (2021–2026) and NAFO would again be asked to be a partner in this next phase of the project. The Executive Secretary added that, if this is the case, he expected that NAFO could again support this new project with an in-kind contribution, similar to that which it has provided to the current project.

14. Oil and Gas Activities in the NAFO Regulatory Area

The Executive Secretary presented COM WP 19-16 on oil and gas activities in the NAFO Regulatory Area (NRA) and activities under the proposed information exchange arrangement, including an update on the use of the NAFO CEM provision that was adopted at the 2016 Annual Meeting to allow, under certain circumstances, the provision of a five-year monthly snapshot of fishing activity in the NRA on the basis of Vessel Monitoring System (VMS) data. The Secretariat also provided this five-year monthly snapshot of fishing activity in the NRA to Canada to share with the Canadian Environmental Assessment Agency (CEAA) to be used in the CEAA's assessment of offshore oil and gas drilling east of Newfoundland and Labrador. The Executive Secretary reported that, since the last Annual Meeting, Canada has sent five notifications to the NAFO Secretariat about petroleum-related activities on Canada's Continental Shelf in the NRA for onward transmission to Contracting Parties.

The European Union expressed serious concern about the impact in the NRA of the activities of the oil and gas industry, in particular increasing exploratory activity (*i.e.* seismic testing) and oil spills. Concerning seismic testing the impacts include temporary displacements of fishing activity. Concerning oil spills, although there have been no oil spills in the NRA, the impact of oil spills outside the NRA may be having negative effects on fish eggs, larvae and juveniles. The European Union was encouraged that the Scientific Council is starting to address this issue and called on Contracting Parties to facilitate its work. Canada said it was committed to continuing the information exchange arrangement, which is working well. It intends to share relevant research with the Scientific Council and encourages all Contracting Parties to do the same. Canada mentioned that it has been conducting a range of research projects on the effects of oil and gas on the marine environment, as well as on additional mitigation measures for VMEs. There is also approx. $55 million recently committed to research initiatives on minimizing the impact of oil spills. Canada added that, concerning the oil spill earlier this year, it had provided information on it to Contracting Parties. Further, this incident was currently under investigation by the Canadian regulatory authority and a copy of its report would be provided to Contracting Parties when available.

IV. Joint Session of Commission and Scientific Council

15. Implementation of 2018 Performance Review Panel recommendations

The Vice-Chair of the Commission, Temur Tairov (Russian Federation) presented the Report of the Commission Working Group to Address the Recommendations of the 2018 Performance Review Panel (COM Doc. 19-03) along with its recommendations (COM WP 19-22). The recommendations comprised an Action Plan that, for each of the Performance Review Recommendations, designated a proposed action, priority and lead NAFO body or bodies to address this action; and a process for reporting on the progress to address each proposed action at subsequent Annual Meetings.

The recommendations of this Working Group were **adopted** (Annex 14).

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

a. Response of the Scientific Council to the Commission's request for scientific advice

The Chair of the Scientific Council (SC), Brian Healey (Canada), presented this year's scientific advice. The presentation included a report on the catch and survey data used in the stock assessment, environmental and ecosystem trends (COM-SC WP 19-04 Rev.). The scientific advice on fish stocks and other topics was formulated mainly during the SC meeting in June 2019 (SCS Doc. 19-20), except for Northern shrimp in Division 3M and Divisions 3LNO, which was formulated on 10 September 2019 during the NAFO/ICES *Pandalus* Assessment Group (NIPAG) meeting (SCS Doc. 19-21) and for Squid in Subareas 3+4, which was formulated during this meeting (SCS Doc. 19-22). The advice represents the response of SC to the request from the Commission (COM Doc. 18-20). The advice on topics relating to risk-based management strategies and to ecosystem approach to fisheries management was taken on by the joint Working Groups at their subsequent meetings (see agenda items 17.b and 17.c). Outlined below (according to request item numbers) are excerpts or summaries from the meeting documents mentioned above which contain the full and detailed response:

1. ***Assessment of Fish Stocks***

   - **Cod in Division 3M**

     Substantial declines in stock size are occurring and expected to continue in the near future under any option. Yields during 2020 of either 8 531 tonnes (¾ F_{lim}) or 5 619 tonnes (F2016-2018) result in a very low probability of SSB being below B_{lim} in 2021 and a low probability of F exceeding F_{lim}. However, under both F scenarios, the probability of SSB being below B_{lim} in 2022 is high (≥20%).

   - **Shrimp in Division 3M**

     There is sufficient evidence to allow a small amount of directed fishing on this stock. Considering the uncertainty about future recruitments and the response of the resource to resumed exploitation, SC advised that the catch in 2020 should not exceed the 2009 level (5 448 tonnes).

   - **Redfish in Division 3M**

     Catches should not exceed the $F_{0.1}$ level given the recent very low productivity of the stock. This corresponds to a Total Allowable Catch (TAC) of 4 320 tonnes in 2020 and 4 624 tonnes in 2021.

   - **White hake in Divisions 3NOPs**

     Given the absence of strong recruitment, SC recommended catches of white hake in Divs. 3NO should not increase for 2020 and 2021. Average annual catches over 2014 to 2018 were 406 tonnes.

- **Shrimp in Divisions 3LNO**

  No directed fishery in 2020 and 2021 as the stock is below B_{lim} with no indication of short-term recovery.

- **Squid in Subareas 3+4**

  TAC of no more than 34 000 tonnes per year for 2020, 2021, and 2022.

- **Redfish in Division 3O**

  Catches have averaged about 12 000 tonnes since the 1960s and over the long term, catches at this level appear to have been sustainable. SC was unable to advise on an appropriate TAC for 2020, 2021 and 2022.

- **Interim Monitoring Review**

  No change to stock status or previously issued advice on the following stocks: 3M American plaice, 3NO Cod, 3LN Redfish, 3LNO American plaice, 3LNO Yellowtail flounder, 3NO Capelin, and 3LNOPs Thorny skate.

- **Splendid Alfonsinos**

  The substantial decline in CPUE and catches on the Kükenthal peak in the past year indicates that the stock may be depleted. SC advised the fishery be closed until biomass increases to exploitable levels (formulated by SC at its own accord).

2. ***Witch flounder in Divisions 3NO***

   All scenarios evaluated for 2020 and 2021 with fishing mortality greater than zero resulted in a more than 10% probability of the stock being below B_{lim} in 2020 and 2021.

   No directed fishing in 2020 and 2021.

3. ***Greenland halibut in 2+3KLMNO***

   The TAC for 2020 derived from the HCR is 16 926 t. The TAC increase is not greater than10% and so the constraint is not applied. SC noted that exceptional circumstances are not occurring.

4. ***3M Cod Management Strategy Evaluation (MSE)***

   SC reviewed the progress of the 3M cod MSE work to date. SC emphasized that future work should take the time required to develop the technical basis and to allow sufficient review time.

5. ***Impact of scientific surveys on Vulnerable Marine Ecosystems in closed areas***

   SC noted that work planned to complete this task did not occur as a result of other work commitments. SC reiterated its ongoing recommendation that, until this issue is fully resolved, scientific bottom trawl surveys in existing closed areas be avoided if possible. The Commission may wish to consider possible options for non-destructive regular monitoring within closed areas.

6. ***Bycatch and Discards Action Plan***

   SC reiterated the advice given in 2018 that work on items will continue over the next two years.

7. ***Golden redfish in Division 3M***

   The separation of the three species is difficult and therefore it was impossible to implement catch reporting. It is not considered appropriate to give advice for golden redfish separately. SC will

continue to monitor the golden redfish stock status and provide advice as part of the beaked redfish advice.

8. ***Implementation of Ecosystem Approach Road Map***

SC recommended the Commission develop, through the joint COM-SC Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM), options by which ecosystem considerations can be operationally integrated into fisheries management advice and management measures through consideration of the risk of damage or deterioration of the ecosystem based on the principles of Total Catch Indices.

9. ***Reassessment of bottom fishing activities in 2021***

SC made further progress in assessing the overlap of NAFO fisheries with VME. SC has made progress in developing approaches which assess the functional significance of VMEs and the estimation of recovery rates of VME indicator species.

10. ***Revisions to VME indicator species***

The nomenclature of some species has been revised, and several large sponges have now been described at the species level. SC recommended that Annex 1.E, Part VI, [of the NAFO CEM] list of VME indicator species be replaced with the list provided [see agenda item 17.c].

11. ***Reassessment of VME closures***

SC has agreed to a workplan to review the VME fishery closures to be concluded by 2020.

12. ***Review of the Precautionary Approach Framework***

SC will be unable to complete this complex review in the short or medium term. To complete this work, participation of the Commission will be required *e.g.* to specify risk tolerances, potential addition of buffers, etc.

13. ***Maps and coordinates of Kükenthal Peak in Division 6G, part of the Corner Rise Seamount***

Maps were provided of the location of Kükenthal Peak and a polygon encompassing the 1800-m contour and recent fishing effort (see Figures xii.1- xii.4 in SCS Doc 19-20). SC has provided updated advice for the Splendid Alfonsino fishery on Kükenthal Peak (see section VII.3 of SCS Doc. 19-20).

14. ***Bycatch and discards of Greenland sharks***

SC identified data availability and uncertainty issues that could limit the ability to respond to this request. SC also identified a problem where Greenland shark discards have been recently reported as landings in the STATLANT database. SC recommended that the Commission develop a mechanism for reporting discards from all fisheries within the NAFO Convention Area, and that these data be made available to SC.

15. ***Impact of activities other than fishing in the NAFO Convention Area***

SC reiterated its prior advice (SCS Doc. 15-12 and SCS Doc. 16-14) that there are a number of activities occurring in the NRA which have the potential to impact fisheries resources and the ecosystem, and that multi-sectoral governance issues are the main impediment to comprehensively addressing them. SC noted that, as an example, there is significant spatial overlap between oil and gas exploration and production activities, fisheries and VME in the Flemish Pass area. SC noted that, without a significant commitment from Contracting Parties to a) establish regular reporting of activities other than fishing with sufficient detail to allow for adequate analysis and assessment of impacts on fisheries resources and the ecosystems that support them, b) increase SC capacity to address these issues, and c) engage

in comprehensive multi-sectoral cooperation, these types of requests can only be rudimentarily addressed at best.

16. ***Initial steps towards SC workplan for next 3-5 years***

SC agreed with the need for identification of priorities and required resources and noted this should be an iterative discussion between the Commission and SC and should reflect the non-NAFO workload of SC members. SC intends to develop a 5-year plan that allows for a high-level view of activities, with more detailed annual plans for each year in which resource gaps and priorities will be addressed. While this plan will be reviewed and updated twice a year, SC emphasized the importance of stability in the work plan, *i.e.* that new requests should be clearly justified as they will have impact on delivering existing work plan items.

b. Feedback to the Scientific Council regarding the advice and its work during this meeting

The Commission noted the SC Reports and the presentation of advice. They engendered follow-up questions and enquiries for further clarification to which SC provided responses during the meeting. They pertain to Redfish in Division 3O, Redfish in Division 3M, non-sponge and non-corals VMEs, human activities other than fishing, Cod in Division 3M, and Splendid alfonsino. In addition to these written questions, the SC chair was asked to review the results and basis for advice for Witch Flounder in Divs. 3NO.

The Commission questions and SC responses were compiled (Annex 15).

c. Other issues as determined by the Chairs of the Commission and Scientific Council

No new issues were discussed under this agenda item.

17. Meeting Reports of the Joint Commission–Scientific Council Working Groups

a. Working Group on Improving Efficiency of NAFO Working Group Process (E-WG), 2019

The Executive Secretary presented the report (COM-SC WP 19-03) of the Joint Commission-Scientific Council Efficiency Working Group.

The Working Group recommended three (3) two-week periods where intersessional meetings by STACTIC and other Working Groups can be held, namely:

- 24 February to 6 March 2020;
- 27 April to 8 May 2020; and
- 10 to 21 August 2020.

Contracting Parties are not obliged to schedule meetings during these periods, but these dates may help in future planning of intersessional meetings. In this regard, the Tentative Schedule for 2019/2020 NAFO Meetings (COM-SC WP 19-06 Revised), could also serve as a guide in determining dates of intersessional meetings.

Recommendations to this effect were forwarded to the Commission and Scientific Council (COM-SC WP 19-07).

The recommendations of the Working Group were **adopted** (Annex 16).

b. Joint Commission–Scientific Council Working Group on Risk-based Management Strategies (WG-RBMS), April and September 2019

The co-Chairs of WG-RBMS, Jacqueline Perry (Canada) and Carmen Fernandez (European Union), presented the April meeting report (COM-SC Doc. 19-01) and the results of the September 2019 meeting,

Key discussion items include, among others:

- the decision to suspend the 3M Cod MSE work,
- a reflection on the timelines surrounding future MSE processes that should be realistic, taking into account of the very large amount of work required, and
- the need for an updated assessment and five-year projections for 3LN Redfish.

Recommendations to this effect were forwarded to the Commission and Scientific Council (COM-SC WP 19-08).

The co-Chairs also indicated that the Precautionary Approach (PA) Framework review, which was identified by the Commission as a priority task the previous year, will be the priority agenda item at the August 2020 meeting.

The recommendations of WG-RBMS were **adopted** (Annex 17).

c. Joint Commission–Scientific Council Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM), July 2019

WG-EAFFM co-Chair, Elizabethann Mencher (USA), presented the July 2019 report (COM-SC Doc. 19-03) and the recommendations (COM-SC WP 19-09).

Key discussion items include, among others:

- impact of scientific surveys in VME closed areas,
- participation of relevant experts in relation to the 2020 re-assessment of VME closures and the 2021 re-assessments of the impacts of NAFO bottom fishing,
- update of the VME species list in Annex I.E of the NAFO CEM,
- sample Ecosystem Summary Sheet for Division 3LNO, and
- possible development of ecosystem level objectives.

Recommendations to this effect were forwarded to the Commission and Scientific Council (COM-SC WP 19-09).

The recommendations of WG-EAFFM were **adopted** (Annex 18).

d. Joint Commission–Scientific Council Catch Estimation Strategy Advisory Group (CESAG), 2019

The co-Chairs of CESAG, Katherine Sosebee (USA) and Temur Tairov (Russian Federation), provided an overview of the meeting report (COM-SC Doc. 19-04) and the recommendations (COM-SC WP 19-10).

Key outcomes include, among others:

- acceptance of the *Catch Estimates Methodology Study*, and
- consideration of potential refinements to the Catch Estimation Strategy.

Recommendations to this effect were forwarded to the Commission and Scientific Council (COM-SC WP 19-10).

The recommendations of CESAG were **adopted** (Annex 19).

18. Formulation of Request to the Scientific Council for Scientific Advice on the Management in 2021 and Beyond of Certain Stocks in Subareas 2,3, and 4 and Other Matters

In accordance with the procedure outlined in FC Doc. 12-26, a steering committee was formed to assist in the drafting of the Commission request. The committee was comprised of the SC Coordinator with Steve Hwang (Canada), Martha Krohn (Canada) and Cristina Ribeiro (European Union).

The Commission request to SC, developed and presented by the committee, was **adopted** (see Annex 20).

V. Conservation of Fish Stocks in the Regulatory Area

19. Recommendations of the Joint Commission–Scientific Council Working Group on Risk-based Management Strategies (WG-RBMS), August 2018 (if more discussion is required)

There was no further discussion on the WG-RBMS report and recommendations as they were addressed under agenda item 17.b.

20. Management and Technical Measures for Fish Stocks in the Regulatory Area, 2019

The Quota Table and the Effort Allocation Scheme for the Shrimp Fishery in NAFO Division 3M for 2020, presented in Annex 21, incorporate the TAC and effort allocation scheme decisions, as well as the update of the footnotes.

a. Cod in Division 3M

The Commission **agreed** on a TAC of 8 531 tonnes for 2020 which is a scenario corresponding to $3/4F_{lim}$.

The agreed TAC represents a compromise between the two scenarios that were initially proposed: TAC of 5 619 tonnes corresponding to $F_{2016\text{-}18}$; and TAC of 10 876 tonnes at F_{lim}.

In reaching the TAC decision, the Commission also agreed to items to promote improving the basis for long-term management of this stock (Annex 22).

b. Redfish in Division 3M

The Commission **agreed** on the TAC corresponding to the F_{max} scenario, *i.e.* 8 590 tonnes in year 2020 and 8 448 tonnes in year 2021.

The Russian Federation noted the following: An "*Olympic*" system of fishery management has been applied to this stock for several years now and given the TAC advice from SC, that indicates resource decline, some interested Contracting Parties with quotas would have limited access to the stock due to limited time. The Commission should therefore reflect on the effectiveness of the current system.

c. Pelagic *Sebastes mentella* (oceanic redfish) in the NAFO Convention Area

The Commission **agreed** to rollover the TAC, which was set at zero, noting that the TAC might be adjusted in accordance with the footnote 3 of the Quota Table.

The Russian Federation issued a statement: The Russian Federation adheres to its position that there is a single stock of pelagic *Sebastes mentella* in the Irminger Sea and adjacent waters, including the NAFO Convention Area. The Russian Federation reiterated its standpoint that studies into the redfish stock structure should be continued using all available scientific and fisheries data as a basis. Until new data on the stock structure are available, the Russia Federation will continue to regulate the pelagic fishery for *Sebastes mentella* based on the concept of the single stock structure of this stock.

d. Shrimp in Division 3M

In consideration of the scientific advice that *there is sufficient evidence to allow a small amount of directed fishing on this stock*, the Commission **agreed** to re-open the fishery, which has been under a moratorium since 2011.

This stock has been traditionally managed through an effort allocation scheme (number of fishing days and maximum number of fishing vessels allocated to Contracting Parties). It was noted that the current footnote to Annex I.B stated the fishery shall be re-opened in accordance with the effort allocation key in place for this fishery at the time of closure. There was discussion of possible alternate management regimes to better align the capacity under an effort management regime with the level of total removals recommended by the SC including the possible conversion to a TAC and quota system.

The Commission **agreed** on a reduction of fishing effort (days) to 25% of the 2009 levels. A footnote was inserted in Annex I.B of the NAFO CEM to include transfer of allocated fishing days among Contracting Parties for 2020. (see Annex 21).

It was recognized that the agreed measures are interim only for 2020. The Commission committed to undertaking intersessional work and holding a meeting in late-Spring 2020 to discuss the possibility of a new fishing regime and other management options. The interim measures and the commitment are contained in COM WP 19-37 Rev. 5 which was **adopted** (Annex 23).

Canada requested that the following statement be included in the meeting record:

> *Canada appreciates the effort made by the European Union and others to reach a consensus on 3M Shrimp. We recognize that when the fishery closed in 2011, a decision was taken to re-open the fishery in accordance with the effort allocation key in place at the time of closure. For over 25 years, Canada has maintained that an effort-based regime is not sustainable, and that a TAC and quota-based regime should be implemented.*
>
> *This can be very complicated or very simple. This week we proposed a simple conversion from the 2010 vessel days to a proportionate percentage of the TAC. Unfortunately, Contracting Parties could not agree.*
>
> *This approach would have ensured a conservation-based fishery, and an equitable one where all Contracting Parties could have benefitted from the opening of this fishery.*
>
> *The number of fishing days is still too high given the recommendation of the Scientific Council. There is no real measure to avoid the overrun of the 2009 catch levels. The adopted management measure is a weak one and we are hopeful we can reach a better solution for 2021.*

Iceland maintained its objection to the effort allocation scheme applied to this stock.

21. Management and Technical Measures for Fish Stocks Straddling National Jurisdictions, 2019

a. Redfish in Division 3O

The Commission **agreed** to rollover the TAC of 20 000 tonnes applicable to 2020, 2021 and 2022.

b. Yellowtail flounder in Divisions 3LNO

The Commission **agreed** to rollover the TAC of 17 000 tonnes applicable to 2020 and 2021.

Footnote 12 (as reflected in the 2019 NAFO CEM) was **deleted**.

The United States noted its concerns that the 3LNO yellowtail flounder TAC was still being set well below the SC advice, though it would not block consensus on the rollover. Recognizing the concerns that had been raised about the level of bycatch of moratoria species in this fishery, the United States called on the Scientific Council and Commission to work over the next two years to identify additional ways to mitigate this bycatch concern to allow the yellowtail flounder TAC to be set more consistent with the scientific advice.

c. Witch flounder in Divisions 3NO

The Commission **agreed** to rollover the TAC of 1 175 tonnes, applicable to 2020 and 2021.

Several Contracting Parties noted the critical importance of the PA Framework Review planned the 2020 WG-RBMS meeting for future decisions related to the management of this stock.

d. White hake in Divisions 3NO

The Commission **agreed** to rollover the TAC of 1 000 tonnes, applicable to 2020 and 2021.

e. Greenland halibut in Subarea 2 and Divisions 3KLMNO

As calculated by SC and consistent with the MSE and HCR, it was agreed to set the TAC at 16 926 tonnes in 2+3KLMNO, 12 542 tonnes of which is allocated to the fishery in 3LMNO.

f. Squid (*Illex*) in Subareas 3 and 4

The Commission **agreed** to rollover the TAC of 34 000 tonnes applicable to 2020, 2021 and 2022.

g. Shrimp in Divisions 3LNO

It was **agreed** to maintain the moratorium applicable to 2020 and 2021.

h. Witch flounder in Division 3L

It was **agreed** to maintain the moratorium applicable to 2020, 2021 and 2022.

i. Redfish in Divisions 3LN

As there was no change to stock status or previously issued advice for 3LN Redfish, the Commission **agreed** to a TAC of 18 100 tonnes for 2020 as reflected in Annex I.H of the NAFO CEM.

22. Other matters pertaining to Conservation of Fish Stocks

a. Splendid Alfonsino in Sub-area 6

In accordance with the scientific advice, the Commission **decided** to ban the fishing of this stock in the NAFO Regulatory Area.

The Commission also **agreed** to include this stock in the Quota Table (See Annex 21).

A request was made for SC to review submitted protocols for a survey methodology to inform the assessment of this stock (See Annex 20).

VI. Ecosystem Considerations

23. Recommendations of the Joint Commission–Scientific Council Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM), August 2018 (if more discussion is required)

There was no further matter discussed under this agenda item.

24. Other matters pertaining to Ecosystem Considerations

Following on the WG-EAFFM meeting report (see agenda item 17.c), a proposal outlining the Terms of Reference of a WG-EAFFM workshop to be held intersessionally was tabled (COM-SC WP 19-05). The purpose of the workshop is to identify ecosystem-level objectives that could help progress implementation of the ecosystem approach to fisheries management.

Attendees of the workshop would comprise fishery managers and scientists from Contracting Parties representing both the WG-EAFFM and WG-RBMS. The participation of WG-RBMS would be included because of its planned review of the Precautionary Approach Framework in 2020 and the potential synergies between these two processes. Experts in the field will also be invited to attend.

The proposed Terms of Reference were not finalized at this meeting pending consultation with the co-Chair of the WG-EAFFM. The Secretariat was instructed by the Commission to consult and coordinate with the co-Chairs of the WGs involved and, once agreement was reached on the proposed Terms of Reference amongst the co-Chairs, Contracting Parties would then be requested to considering approving them.

VII. Conservation and Enforcement Measures

25. Recommendations of the Joint Commission-Scientific Council Catch Estimation Strategy Advisory Group (CESAG), 2019 (if more discussion is required)

There were no further matters discussed under this agenda item.

26. Meeting Report and Recommendations of the *Ad hoc* Working Group on Bycatches, Discards, and Selectivity (WG-BDS), July 2019

The Chairs of WG-BDS, Temur Tairov (Russian Federation), presented the meeting report (COM Doc. 19-05) and the recommendations (COM WP 19-17).

Key discussion items include, among others:

- the bycatch and discards analysis performed by the Secretariat and guidance on format and presentation of subsequent analysis and specific lines of further inquiry, and
- continuing coordination with the Chairs of SC and STACTIC on matters related to the implementation of the Action Plan.

The recommendations of the WG-BDS were **adopted** (Annex 24)

27. Follow-up procedure regarding Haul-by-Haul submissions

At the 40th Annual Meeting in September 2018 in Tallinn, Estonia, the Commission adopted a follow-up procedure regarding haul-by-haul submissions (COM Doc. 18-27). According to the procedure, the Secretariat would send a letter to any Contracting Party that has not complied with the haul-by-haul reporting requirement and request a response by that Contracting Party on actions taken to resolve the issue.

The Secretariat reported on its follow-up efforts and the response of the relevant Contracting Parties with regards to the submission of the 2018 reports (COM WP 19-21). These resulted in the Secretariat receiving reports from 102 fishing trips out of the 105 identified trips, 97% of all expected reports. One Contracting Party is investigating the 3 missing trip reports.

The Commission noted the Secretariat's report and decided that the task of evaluating the compliance to this reporting requirement be transferred to STACTIC in subsequent years.

28. Report of STACTIC from this Annual Meeting and Recommendations

The STACTIC Chair presented the STACTIC Meeting Report (see Part II), and highlighted the following amendments to the NAFO CEM that were forwarded to the Commission for adoption:

- STACTIC WP 19-06 Rev. "*Changes in NAFO CEM from the Editorial Drafting Group"* (Annex 25),
- STACTIC WP 19-07 "*Addition of footnote to Annex I.C of the NAFO CEM"* (Annex 26),
- STACTIC WP 19-11 Rev. "*Editorial changes in the NAFO CEM from the Editorial Drafting Group"* (Annex 27),
- STACTIC WP 19-20 *Amendments of NAFO CEM Annexes II.F and II.G* (Annex 28),
- STACTIC WP 19-21 "*Reference to "*the smallest geographical area*" in Article NAFO CEM 28.2a and 28.3.b"* (Annex 29),
- STACTIC WP 19-22 Rev. 2 *"NAFO CEM Article 28 – Monthly Catch report (Article 28.8a)"* (Annex 30),
- STACTIC WP 19-25 Rev. "*Adjustments to Multiple flap-type topside chafers in NAFO CEM Annex III.B.2"* (Annex 31),
- STACTIC WP 19-27 Rev. 4 "*Production Logbook and Stowage Plan Updated at the Request of Inspectors (NAFO CEM Article 28)"* (Annex 32),
- STACTIC WP 30 Rev. 2 "*Amendment of MZZ in NAFO CEM Article 28.8.g"* (Annex 33)
- STACTIC WP 19-31 "*Revisions to Inspection Form (NAFO CEM Articles 36 and 37, Annex IV.B)"* (Annex 34),
- STACTIC WP 19-44 "*Amendment of NAFO CEM Annex II.J"* (Annex 35)
- STACTIC WP 19-45 Rev. "*Potential edits to the 2019 NAFO CEM flagged by the NAFO Secretariat for review"* (Annex 36)
- STACTIC WP-49 Rev. "*Template for NAFO CEM Annex II.M – Observer Report"* (Annex 37),
- STACTIC 19-50 "*Observer tasks related to sharks"* (Annex 38),
- STACTIC WP 19-52 Rev. "*Time of closure of RED 3M Fishery"* (Annex 39),
- STACTIC WP 19-53 Rev. "*MSC website – Amendments to Ensure Open Access of all Information to all CPS, and to Define Procedure for Posting of Information via the NAFO Secretariat*" (Annex 40),
- STACTIC WP 19-54 Rev. *"Procedure for defining the process to grant access to the MCS Website to individuals within Contracting Parties"* (Annex 41),
- STACTIC WP 19-56 "*Distribution of Notification of Infringements (NAFO CEM Article 37.5)"* (Annex 42),
- STACTIC WP 19-57 Rev. "*Content Adjustments to Add the RJ field to COX report (NAFO CEM Annex II.F.6)"* (Annex 43),
- STACTIC WP 19-58 Rev. "*Adjustments to the OBR Report in NAFO CEM Annex II.D.c and II.G"* (Annex 44).

The Commission accepted the report and **adopted** all the recommendations from the 2019 intersessional meeting (COM Doc. 19-04) and this meeting.

In addition, the Commission **accepted** the STACTIC WP 19-43 (Revised) "*Annual Fisheries and Compliance Review 2019"* (Annex 45).

The STACTIC Chair brought forward the issue of the different interpretations of the phrases "…*engaged in the Greenland halibut fishery*..." and "...*inspect each landing of Greenland halibut in its ports*…" in Article 10 of the NAFO CEM. No consensus was reached in STACTIC as to whether the Article applies to vessels landing Greenland halibut which was caught only as bycatch.

STACTIC was asked to continue deliberations on this issue at its subsequent meetings.

29. Other matters pertaining to Conservation and Enforcement Measures

Three proposals were tabled under this agenda item:

- **Proposal regarding providing Information on the Implementation of the FAO Port State Measures Agreement**

  In this proposal, which was sponsored by Norway, STACTIC shall establish a small *ad hoc* working group to prepare a draft response to the questionnaire in relation to a forthcoming FAO survey on the NAFO's implementation of the PSMA. The Secretariat shall gather the information for the *ad hoc* working group.

  The proposal was **adopted** (Annex 46).

- **Measures to Minimize or Eliminate Discards**

  In this proposal (COM WP 19-26), which was jointly sponsored by Denmark (in respect of the Faroe Islands and Greenland), Iceland and Norway, flag State Contracting Parties, which have a domestic ban on discards, would be exempted from the NAFO CEM provisions which prohibit against retention of catches.

  The proposal did not attain consensus. One Contracting Party indicated that this issue was better suited deliberation in the WG-BDS.

  The proponents indicated that this would be a significant element in the minimization of bycatch. As this is now considered to be a policy decision, the proponents intend to table this proposal in the Commission at the next Annual Meeting.

- **Measure to Improve Data Collection of Bycatch of Sea Turtles, Sea Birds and Marine Mammals**

  In this proposal (COM WP 19-32 Rev.), which was sponsored by USA, observers-at-sea would have to perform an additional duty under Article 30.14(a) of recording fishing gear interactions with marine mammals, sea turtles, and seabirds.

  The proposal did not attain consensus. It was decided to defer this item to the next Annual Meeting.

VIII. Finance

30. Report of STACFAD from this Annual Meeting

The report of STACFAD (see Part III) was presented by the Chair, Deirdre Warner-Kramer (USA). The report contained recommendations for the adoption of the budget for 2020, the Auditor's Report for 2018, the establishment of a performance review fund, addressing certain 2018 Performance Review Panel recommendations, as well as an update on the relocation of the offices of the Secretariat.

31. Adoption of the 2020 Budget and STACFAD recommendations

It was agreed that the report and all the recommendations of STACFAD be adopted by the Commission.

STACFAD recommends that:

- **The 2018 Financial Statements be adopted.**

- **The amount maintained in the accumulated surplus account be set at $285,000 of which $200,000 would be sufficient to finance operations during the first three months of 2020, and of which $85,000 would be a contingency fund available to be used for unforeseen and extraordinary expenses.**

- **The recruitment and relocation fund be increased by $12,000 to $60,000 for future recruitment and relocation costs of internationally recruited staff.**

- **Rule 4.5 of the NAFO Financial Regulations be amended to allow for the establishment of a performance review fund within the accumulated surplus account, as follows:**

  The Standing Committee on Finance and Administration and the Commission shall review the amount available in the accumulated surplus account during each annual meeting. Insofar as possible, the Commission shall anticipate unforeseen expenditures during the succeeding three years and shall attempt to maintain the accumulated surplus account at a level sufficient to finance operations during the first three months of the year plus an amount up to a maximum of 10% of the annual budget for the current financial year for use in an emergency in accordance with Rule 4.4.

  In addition, the Organization shall also maintain a recruitment and relocation fund to pay recruitment and relocation costs for incoming and outgoing internationally recruited staff. The recruitment and relocation fund balance shall be kept at a maximum of $100,000.

  In addition, the Organization shall also maintain a performance review fund to pay costs associated with having an external performance review. The performance review fund balance shall be kept at a maximum of $100,000.

- **A Performance Review Fund be established and be set at $15,000 to pay for costs associated with having an external performance review.**

- **In relation to the *Ad Hoc Virtual NAFO Website Re-Design Working Group:***

  The Working Group convene in 2020 to address Recommendation 26 of the 2018 NAFO Performance Review Panel and present its recommendations to the Commission at the 2020 Annual Meeting.

  Prior to the first meeting of the Ad Hoc Virtual Working Group, the NAFO Secretariat to prepare a discussion document including key issues and operational concerns regarding posting of Working Papers to the NAFO public website, as well as practices and procedures from other RFMOs.

  To ensure the efficient work of the Virtual Working Group, each Contracting Party identify at least one representative to participate in this work.

- **Promotion of the Database Developer/Programmer-Analyst, Office Administrator and Scientific Information Administrator positions to the next salary level and also the promotion of the Fisheries Information Administrator to the Senior Fisheries Information Administrator.**

- **The internship period be maintained for six (6) months during 2020.**

- **The Secretariat, in consultation with the Chairs of the NAFO bodies and Working Groups, prepare a draft annual operational plan for review by STACFAD at the 2020 Annual Meeting.**

- **The Secretariat initiate a process to design a new visual identity for NAFO that reflects the role and responsibilities of the Organization, for presentation to STACFAD at the 2020 Annual Meeting.**

- **The budget for 2020 of $2,369,000 (Annex 3) be adopted.**

- **That the Budget Estimate, Preliminary Budget Forecast, and Preliminary Calculation of Billing for Contracting Parties no longer be considered restricted documents and be posted on the NAFO SharePoint with other Commission Working Papers.**

- **The Commission appoint the three Staff Committee nominees for September 2019–September 2020: Ignacio Granell (European Union), Brian Healey (Canada) and Deirdre Warner-Kramer (USA).**

- **The 2022 Annual Meeting (to be held in Halifax, Nova Scotia, Canada, unless an invitation to host is extended by a Contracting Party and accepted by the Organization) be held 19–23 September 2022.**

IX. Closing Procedure

32. Other Business

There were no further matters discussed under this agenda item.

33. Election of Chair and Vice Chair

Stephane Artano (France, in respect of St. Pierre et Miquelon) and Temur Tairov (Russian Federation) were re-elected Chair and vice-Chair respectively for another 2-year term. Ukraine expressed its concern over Mr. Tairov's re-election.

34. Time and Place of Next Annual Meeting

The 42nd Annual Meeting will be held in Halifax, Nova Scotia, Canada from 21 to 25 September 2019.

35. Press Release

The Press Release of the meeting was developed by the Executive Secretary, through consultations with the Chairs of the Commission and Scientific Council. The agreed Press Release (Annex 47) was circulated and posted to the NAFO website at the conclusion of the meeting on Friday, 27 September.

36. Adjournment

The meeting adjourned 13:15 hrs on Friday, 27 September 2019.

The summary of decisions and actions taken by the NAFO Commission is presented in Annex 1.

Annex 1. Summary of Decisions and Actions of the Commission from the 41st Annual Meeting of NAFO

ANNEX #	NAFO WORKING PAPER #	DOCUMENT TITLE	NAFO DOCUMENT #
14	COM WP 19-22	Recommendations of the NAFO Commission Working Group to Address the Recommendations of the 2018 Performance Review Panel (WG-PR), 2019	COM Doc. 19-32
16	COM-SC WP 19-07	Recommendations of NAFO Working Group on Improving Efficiency of NAFO Working Group Process (E-WG), 2019	COM-SC Doc. 19-06
17	COM-SC WP 19-08	Recommendations of NAFO Joint Fisheries Commission-Scientific Council Working Group on Risk-Based Management Strategies (WG-RBMS), April and September 2019	COM-SC Doc. 19-07
18	COM-SC WP 19-09	Recommendations of NAFO Joint Fisheries Commission-Scientific Council Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM), July 2019	COM-SC Doc. 19-08
19	COM-SC WP 19-10	Recommendations of NAFO Joint Commission-Scientific Council Catch Estimation Strategy Advisory Group (CESAG), 2019	COM-SC Doc. 19-09
20	COM WP 19-39 (Rev. 4)	The Commission's Request for Scientific Advice on Management in 2021 and Beyond of Certain Stocks in Subareas 2, 3 and 4 and Other Matters	COM Doc. 19-29
21		Quota Table and the Effort Allocation Scheme for the Shrimp Fishery in NAFO Division 3M for 2020	
22	COM WP 19-42	Improving the basis for the long-term management of 3M Cod	COM Doc. 19-30
23	COM WP 19-37 (Rev. 5)	Interim measure for Shrimp 3M for 2020	COM Doc. 19-27
24	COM WP 19-17	Recommendations of the NAFO Commission Ad hoc Working Group to Reflect on the Rules Governing Bycatches, Discards and Selectivity (WG-BDS), 2019	COM Doc. 19-31
25	STACTIC WP 19-06 (Rev.)	Changes in NAFO CEM from the Editorial Drafting Group	COM Doc. 19-07
26	STACTIC WP 19-07	Addition of footnote to Annex I.C of the NAFO CEM	COM Doc. 19-08
27	STACTIC WP 19-11 (Rev.)	Editorial changes in the NAFO CEM from the Editorial Drafting Group	COM Doc. 19-09
28	STACTIC WP 19-20	Amendments of NAFO CEM Annexes II.F and II.G	COM Doc. 19-10
29	STACTIC WP 19-21	Reference to “the smallest geographical area” in NAFO CEM Article 28.2a and 28.3.b	COM Doc. 19-11
30	STACTIC WP 19-22 (Rev. 2)	NAFO CEM Article 28 – Monthly Catch report (Article 28.8a)	COM Doc. 19-12
31	STACTIC WP 19-25 (Rev.)	Adjustments to Multiple flap-type topside chafers in NAFO CEM Annex III.B.2	COM Doc. 19-13
32	STACTIC WP 19-27 (Rev. 4)	Production Logbook and Stowage Plan Updated at the Request of Inspectors (NAFO CEM Article 28)	COM Doc. 19-14
33	STACTIC WP 19-30 (Rev. 2)	Amendment of MZZ in NAFO CEM Article 28.6.g	COM Doc. 19-15
34	STACTIC WP 19-31	Revisions to Inspection Form (NAFO CEM Articles 36 and 37, Annex IV.B)	COM Doc. 19-16
35	STACTIC WP 19-44	Amendment of NAFO CEM Annex II.J	COM Doc. 19-17
36	STACTIC WP 19-45 (Rev.)	Edits to the 2019 NAFO CEM flagged by the NAFO Secretariat for review	COM Doc. 19-18

37	STACTIC WP 19-49 (Rev.)	Revised Template for NAFO CEM Annex II.M – Observer Report	COM Doc. 19-19
38	STACTIC WP 19-50	Observer tasks related to sharks	COM Doc. 19-20
39	STACTIC WP 19-52 (Rev.)	Time of closure of RED 3M Fishery	COM Doc. 19-21
40	STACTIC WP 19-53 (Rev.)	MSC website – Amendments to Ensure Open Access of all Information to all CPS, and to Define Procedure for Posting of Information via the NAFO Secretariat	COM Doc. 19-22
41	STACTIC WP 19-54 (Rev.)	Procedure for defining the process to grant access to the MCS Website to individuals within Contracting Parties	COM Doc. 19-23
42	STACTIC WP 19-56	Distribution of Notification of Infringements (NAFO CEM Article 37.5)	COM Doc. 19-24
43	STACTIC WP 19-57 (Rev.)	Content Adjustments to Add the RJ field to COX report (NAFO CEM Annex II.F.6)	COM Doc. 19-25
44	STACTIC WP 19-58 (Rev.)	Adjustments to the OBR Report in NAFO CEM Annex II.D.c and II.G	COM Doc. 19-26
45	STACTIC WP 19- 43 (Rev.)	Annual Fisheries and Compliance Review 2019	COM Doc. 19-28
46	COM WP 19-23	Providing Information on the Implementation of the FAO Port State Measures Agreement	COM Doc. 19-33
	STACFAD WP 19-01 to STACFAD WP 19-07	STACFAD Recommendations including the 2020 Budget	See agenda item 31 (above)

Annex 2. Agenda

I. Opening Procedure

1. Opening by the Chair
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Admission of Observers
5. Publicity

II. Supervision and Coordination of the Organizational, Administrative and Other Internal Affairs

6. Review of Membership of the Commission
7. Administrative Report
8. NAFO Headquarters Agreement
9. Review of the list of experts to serve as panelists under the NAFO Dispute Settlement provisions
10. Guidance to STACFAD necessary for them to complete their work
11. Guidance to STACTIC necessary for them to complete their work

III. Coordination of External Affairs

12. Report of Executive Secretary on External Meetings
13. International Relations
    a. Relations with other International Organizations
    b. NAFO Members as Observers to External Meetings
    c. Areas Beyond National Jurisdiction (ABNJ) Deep-Seas Project
14. Oil and Gas Activities in the NAFO Regulatory Area

IV. Joint Session of Commission and Scientific Council

15. Implementation of 2018 Performance Review Panel recommendations
16. Presentation of scientific advice by the Chair of the Scientific Council
    a. Response of the Scientific Council to the Commission's request for scientific advice
    b. Feedback to the Scientific Council regarding the advice and its work during this meeting
    c. Other issues as determined by the Chairs of the Commission and Scientific Council
17. Meeting Reports of the Joint Commission–Scientific Council Working Groups
    a. Working Group on Improving Efficiency of NAFO Working Group Process (E-WG), 2019
    b. Joint Commission–Scientific Council Working Group on Risk-based Management Strategies (WG-RBMS), April and September 2019
    c. Joint Commission–Scientific Council Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM), July 2019
    d. Joint Commission–Scientific Council Catch Estimation Strategy Advisory Group (CESAG), 2019
18. Formulation of Request to the Scientific Council for Scientific Advice on the Management in 2021 and Beyond of Certain Stocks in Subareas 2,3, and 4 and Other Matters

V. Conservation of Fish Stocks in the Regulatory Area

19. Recommendations of the Joint Commission–Scientific Council Working Group on Risk-based Management Strategies (WG-RBMS), August 2018 (if more discussion is required)
20. Management and Technical Measures for Fish Stocks in the Regulatory Area, 2019
    a. Cod in Division 3M
    b. Redfish in Division 3M
    c. Pelagic *Sebastes mentella* (oceanic redfish) in the NAFO Convention Area

d. Shrimp in Division 3M

21. Management and Technical Measures for Fish Stocks Straddling National Jurisdictions, 2019
    a. Redfish in Division 3O
    b. Yellowtail flounder in Divisions 3LNO
    c. Witch flounder in Divisions 3NO
    d. White hake in Divisions 3NO
    e. Greenland halibut in Subarea 2 and Divisions 3KLMNO
    f. Squid (*Illex*) in Subareas 3 and 4
    g. Shrimp in Divisions 3LNO
    h. Witch flounder in Division 3L
    i. Redfish in Divisions 3LN
22. Other matters pertaining to Conservation of Fish Stocks
    a. Splendid Alfonsino

VI. Ecosystem Considerations

23. Recommendations of the Joint Commission–Scientific Council Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM), August 2018 (if more discussion is required)
24. Other matters pertaining to Ecosystem Considerations

VII. Conservation and Enforcement Measures

25. Recommendations of the Joint Commission-Scientific Council Catch Estimation Strategy Advisory Group (CESAG), 2019 (if more discussion is required)
26. Meeting Report and Recommendations of the Ad hoc Working Group on Bycatches, Discards, and Selectivity (WG-BDS), July 2019
27. Follow-up procedure regarding Haul-by-Haul submissions
28. Report of STACTIC from this Annual Meeting and Recommendations
29. Other matters pertaining to Conservation and Enforcement Measures

VIII. Finance

30. Report of STACFAD from this Annual Meeting
31. Adoption of the 2020 Budget and STACFAD recommendations

IX. Closing Procedure

32. Other Business
33. Election of Chair and Vice Chair
34. Time and Place of Next Annual Meeting
35. Press Release
36. Adjournment

Annex 3. Participant List

CHAIRS

NAFO President and Chair of the Commission – Artano, Stéphane (France in respect of St. Pierre et Miquelon). Président de la Collectivité Territoriale de Saint-Pierre et Miquelon, Place Monseigneur Maurer, B.P. 4208, 97500 St. Pierre et Miquelon
Tel: +508 41 01 08 – Email: s.artano@senat.fr

Chair of Scientific Council – Healey, Brian (Canada).
Science Advisor, Fisheries and Oceans Canada, Northwest Atlantic Fisheries Centre, 80 East White Hills, St. John's, NL A1C5X1
Tel: +1 709 772-8674 – Email: brian.healey@dfo-mpo.gc.ca

CANADA

Head of Delegation

Lapointe, Sylvie. Assistant Deputy Minister, Fisheries and Harbour Management (FHM), Fisheries and Oceans Canada, 200 Kent Street, Ottawa, ON K1A 0E6
Email: Sylvie.Lapointe@dfo-mpo.gc.ca

Advisers/Representatives

Barbour, Natasha. A/Program Lead, Fisheries and Oceans Canada, Northwest Atlantic Fisheries Centre, 80 East White Hills, St. John's, NL A1C5X1
Tel: +1 709 772-5788 – Email: Natasha.barbour@dfo-mpo.gc.ca

Blanchard, Tony. Director Resource Management, Fisheries and Oceans Canada, Northwest Atlantic Fisheries Centre, 80 East White Hills, St. John's, NL A1C5X1
Tel: +1 709 772-4497 – Email: tony.blanchard@dfo-mpo.gc.ca

Blinn, Michelle. Manager Marine Services. Nova Scotia Department of Fisheries and Aquaculture, 173 Haida Street, Cornwallis, NS B0S 1H0
Tel: +1 902 638-2020 - Email: Michelle.Blinn@novascotia.ca

Bonnell, Carey. Vice President of Sustainability and Engagement. Ocean Choice International. 22 Wedgeport Road, St. John's, NL A1A 5A6
Tel: +1 902 782 6244 – Email: cbonnell@oceanchoice.com

Chapman, Bruce. Executive Director, Groundfish Enterprise Allocation Council, 1362 Revell Dr., Manotick, Ontario K4M 1K8
Tel: +1 613 692-8249 – Email: bchapman@sympatico.ca

Dale, Aaron. Torngat Secretariat, 217 Hamilton River Road, P.O. Box 2050, Station B, Happy Valley-Goose Bay, NL, A0P 1E0 Canada
Email: aaron.dale@torngatsecretariat.ca

Dalley, Derrick. Chief Executive Officer, Ueushuk Fisheries Ltd., 6 Burnwood Drive, PO Box 1020 Station C, Happy Valley-Goose Bay, NL, A0P 1C0
Tel: +1 709 884 6219 – Email: ddalley@innudev.com

Dwyer, Judy. Director, Enforcement, Conservation and Protection, Fisheries and Oceans Canada, 200 Kent Street, Ottawa, Ontario K1A 0E6
Tel: +1 613 993-3371 – Email: judy.dwyer@dfo-mpo.gc.ca

Dwyer, Karen. Science Science Branch, Fisheries & Oceans Canada, P.O. Box 5667, St. John's, NL. A1C 5X1
Tel.: +709-772-0573 - Email: karen.dwyer@dfo-mpo.gc.ca

Fagan, Robert. Senior Resource Manager. Fisheries Management, Fisheries and Oceans Canada, Northwest Atlantic Fisheries Centre, 80 East White Hills Road, St. John's, NL, A1C 5X1
Tel: +1 709 772-2920 – Email: Robert.Fagan@dfo-mpo.gc.ca

Haque, Azra. Global Affairs Canada, Oceans and Environmental Law Division, 125 Sussex Dr., Ottawa, ON, K1A 0G2
Tel: +1 343 203 2554 – Email: Azra.Haque@international.gc.ca

Healey, Brian. (see Chairs)

Hurley, Mike. Fisheries and Oceans Canada, Northwest Atlantic Fisheries Centre, 80 East White Hills, St. John's, NL A1C5X1
Tel: + 1 709 227-9344 – Email: mike.hurley@dfo-mpo.gc.ca

Hwang, Steve. Junior Policy Analyst, Fisheries and Oceans Canada, International Fisheries Management and Bilateral Relations, 200 Kent Street, Ottawa, ON K1A 0E6
Tel: +1 613 991 0428 – Email: steve.hwang@dfo-mpo.gc.ca

Krohn, Martha. Manager, Fisheries Science, Fisheries and Oceans Canada, 200 Kent Street, Ottawa, ON K1A 0E6, Canada
Tel: +1 613 998-4234 – Email: Martha.Krohn@dfo-mpo.gc.ca

Lavigne, Élise. Assistant Director, International Fisheries Management and Bilateral Relations, Fisheries and Oceans Canada, 200 Kent Street, Ottawa, ON K1A 0E6
Tel: +1 613 993-6695 – Email: elise.lavigne@dfo-mpo.gc.ca

Milburn, Derrick. Senior Advisor, International Fisheries Management and Bilateral Relations, Fisheries and Oceans Canada, 200 Kent Street, Ottawa, ON K1A 0E6
Tel: +1 613 993-7967 – Email: Derrick.Milburn@dfo-mpo.gc.ca

O'Rielly, Alastair. NAFO Commissioner, Executive Director, Northern Coalition Corporation, P.O. Box 452 Witless Bay, NL, A0A 4K0,
Tel: + 1 709 727-3290 Email: alastairorielly@gmail.com

Pepin, Pierre. Senior Research Scientist, Fisheries and Oceans Canada, Northwest Atlantic Fisheries Centre, 80 East White Hills, St. John's, NL A1C5X1
Tel: +1 709 772-2081 Email: Pierre.pepin@dfo-mpo.gc.ca

Perry, Jacqueline. Regional Director General, Fisheries and Ocean Canada, 80 East White Hills Rd., St John's, NL, A1C 5X1
Tel: +1 709 772-4417 – Email: Jacqueline.perry@dfo-mpo.gc.ca

Rowsell, Nicole. Director (A), Sustainable Fisheries and Oceans Policy, Fisheries and Land Resources, sGovernment of Newfoundland and Labrador, 30 Strawberry Marsh Rd., St. John's, NL A1B 4R4
Tel: +1 (709)729-0335 – Email: nicolerowsell@gov.nl.ca

Shea, Paul. A/Sr. Compliance Program, Fisheries and Oceans Canada, 80 East White Hills Rd., P.O. Box 5667, St. John's NL A1C 5X1
Email: paul.shea@dfo-mpo.gc.ca

Sheppard, Beverley. Manager, Harbour Grace Shrimp Co. Ltd., P. O. Box 580, Harbour Grace, NL A0A 2M0
Tel: +1 709 589-8000 – Email: bsheppard@hgsc.ca

Slaney, Lloyd. Director, Conservation and Protection, Fisheries and Oceans Canada, Northwest Atlantic Fisheries Centre, 80 East White Hills, St. John's, NL A1C5X1
Email: Lloyd.Slaney@dfo-mpo.gc.ca

Sullivan, Blaine. COO, Ocean Choice International, 1315 Topsail Road, P.O. Box 8190, St. John's, NL, A1B 3N4
Tel: +1 709 687 4344 – Email: bsullivan@oceanchoice.com

Sullivan, Martin. CEO, Ocean Choice International, 1315 Topsail Road, P.O. Box 8190, St. John's, NL, A1B 3N4
Tel: +1 709 687-4343 –Email: msullivan@oceanchoice.com

Walsh, Jerry. Chief International Program, Fisheries and Oceans Canada, Conservation and Protection, International Unit, 80 East White Hills, St. John's, NL A1C5X1
Email: Jerry.Walsh@dfo-mpo.gc.ca

Walsh, Ray. Regional Manager, Fisheries Management, Fisheries and Oceans Canada, Northwest Atlantic Fisheries Centre, 80 East White Hills, St. John's, NL A1C5X1
Tel: +1 709 772-4472 – Email: ray.walsh@dfo-mpo.gc.ca

Walsh, Rosalind. Assistant Deputy Minister, Fisheries and Aquaculture. Government of Newfoundland and Labrador. 30 Strawberry Marsh Rd., St. John's, NL A1B 4R4
Email: rosalindwalsh@gov.nl.ca

Wareham, Alberto. President & CEO, Icewater Seafoods Inc., P. O. Box 89, Arnold's Cove, NL A0B 1A0 Canada
Tel: +1 709 463 2445 – Email: awareham@icewaterseafoods.com

CUBA

Head of Delegation

Yong Mena, Nora. Head of the International Relations Office, Ministry of the Food Industry, Municipio Playa, Calle 41, No. 4015 e/ 48y50, Playa la Havana, Cuba
Tel: +53 7 207 9484 – Email: nora.yong@minal.gob.cu

Advisers/Representatives

Milan Rodriguez, Marelis. International Relations Specialist, Ministry of the Food Industry, Municipio Playa, Calle 41, No. 4015 e/ 48y50, Playa La Havana, Cuba
Email: marelis.milan@geia.cu

DENMARK (IN RESPECT OF THE FAROE ISLANDS AND GREENLAND)

Head of Delegation

Kærgaard, Katrine. Chief Advisor, Government of Greenland, Ministry of Fishery, Hunting and Agriculture, Imaneq 1A, P.O. Box 269, Nuuk, GREENLAND
Tel: +299 34 53 65 –Email: katk@nanoq.gl

Sanderson, Kate. Head of European and Ocean Affairs, , Ministry of Foreign Affairs and Culture, Government of the Faroe Islands, Tinganes, FO-100 Tórshavn, Faroe Islands
Mobile: +298 55 10 07 – Email: kates@uvmr.fo

Advisers/Representatives

Bork Hansen, Signe. Head of Section, Government of Greenland, Greenland Fisheries License Control Authority. Indaleeqqap Aqqutaa 3, Postbox 501, DK-3900, Nuuk, Greenland
Tel: +299 34 53 07 – Email: sibh@nanoq.gl

Gaardlykke, Meinhard. Adviser, The Faroe Islands Fisheries Inspection, Yviri við Strond 3, P. O. Box 1238, FO-110 Torshavn, Faroe Islands
Tel: +298 31 1065 – Mobile: +298 29 1006 – Email: meinhardg@vorn.fo

Gudmundsen, Hálvdan. Association of Long Liners in the Faroe Islands.
Email: halvdan@fossa.foSchroeder, Denise. Head of Section, Government of Greenland, Ministry of Fishery, Hunting and Agriculture, Imaneq 1A, P.O. Box 269, Nuuk, Greenland
Tel: +299 345000 – Email: desc@nanoq.gl

Skorini, Stefan í. Managing Director, Faroese Ship Owners' Association, PO Box 361, Odinshaedd 7, 110 Torshavn, Faroe Islands
Tel: +298 73 99 12 – Email: stefan@industry.fo

Trolle Nedergaard, Mads. Head of Department, Greenland Fisheries License Control Authority, Postbox 501, DK-3900 Nuuk, Greenland
Tel: +299 55 3347 – Email: mads@nanoq.gl

Wang, Ulla Svarrer. Special Adviser, Ministry of Fisheries, P. O. Box 347, FO-110 Torshavn, Faroe Islands
Tel: +298 35 30 30 – Email: ulla.svarrer.wang@fisk.fo

EUROPEAN UNION

Head of Delegation

Jessen, Anders C. European Commission, Law of the Sea and Regional Fisheries Organisations, DG-MARE B2, Rue Joseph II, 99, B-1049, Brussels, Belgium
Tel: +32 (2) 2967224 – Email: Anders.JESSEN@ec.europa.eu

Alternate

Granell, Ignacio. International Relations Officer, Regional Fisheries Management Organizations, European Commission, Rue Joseph II, 99, B-1049, Brussels, Belgium
Tel: +32 2 296 74 06 – Email: ignacio.granell@ec.eurpoa.eu

Advisers/Representatives

Alpoim, Ricardo. Instituto Portugues do Mar e da Atmosfera, Rua Alfredo Magalhães Ramalho, nº6, 1495-006 Lisboa, Portugal
Tel: +351 213 02 70 00 – Email: ralpoim@ipma.pt

Artime Garcia, Isabel. Director General of Fishery and Resources, Ministry of Agriculture, Fisheries, and Food, Velazquez, 144 28006 Madrid, Spain
Tel: +91 347 60 33/34 – Email: iartime@mapama.es

Ávila de Melo, António. Instituto Portugues do Mar e da Atmosfera, Rua Alfredo Magalhães Ramalho, nº6, 1495-006 Lisboa, Portugal
Tel: +351 21 302 7000 – Email: amelo@ipma.pt

Babcionis, Genadijus. Desk Manager, European Fisheries Control Agency (EFCA), Apartado de Correos 771 – E-36200 – Vigo, Spain
Tel: +34 986 12 06 40 – Email: genadijus.babcionis@efca.europa.eu

Barbosa Vicente, Luis Pedro Neves. Secretary General, (A.D.A.P.I.) (A.D.A.P.I.) Associação dos Armadores das Pescas Industriais, Avenida Santos Dumont, Edifício Mútua, Nº57 2º Dt. 1050-202 Lisboa, Portugal
Tel: + 351 933 361 051– E-mail: adapi.pescas@mail.telepac.pt

Bensch, Alexis. Desk Manager, EU Waters and North Atlantic Unit, European Fisheries Control Agency (EFCA), Apartado de Correos 771 – E-36200 Vigo, Spain
Tel: +34 986 12 06 45 – Email: alexis.bensch@efca.europa.eu

Błażkiewicz, Bernard. NAFO Desk Officer, European Commission, Law of the Sea and Regional Fisheries Organisations, DG-MARE B2, Rue Joseph II, 99, B-1049, Brussels, Belgium
Tel+32-2-299.80.47 – Email: Bernard.BLAZKIEWICZ@ec.europa.eu

Caetano, Miguel. Instituto Português do Mar e da Atmosfera (IPMA), Division of Oceanography and Marine Environment, Rua Alfredo Magalhães Ramalho, 6, 1495-165 Algés, Portugal
Tel: +351 21 302 7070 – Email: mcaetano@ipma.pt

Castro Ribeiro, Cristina Almendra. DG MARE, Rue Joseph II, 99, B-1049, Brussels, Belgium
Tel: +39 3668934792 – Email: cristina-ribero@ec.europa.eu

Chamizo Catalán, Carlos. Head of Fisheries Inspection Division, Secretariat General de Pesca Maritima, Subdireccion de Control Inspecion, Ministerio de Medio Ambiente, y Medio Rural y Marino, Velázquez, 144, 28006 Madrid, Spain
Tel: +34 347 1949 – Email: cchamizo@mapama.es

Correia Batista, Emília Maria. Direção Geral de Recursos Naturais, Segurança e Serviços Marítimos, Avenida Brasilia, 1449-030 Lisboa, Portugal
Tel: +351 213035850 – Email: ebatista@dgrm.mm.gov.pt

De Frutos Romo, Gema. Ministry of Agriculture, Fisheries and Food
Email: gdefrutos@mapa.es

Fernandez, Carmen. Instituto Español de Oceanografía (IEO). Avenida Príncipe de Asturias, 70 bis. 33212, Gijón, Spain
Tel: +34 985 308 672 - Email: carmen.fernandez@ieo.es

Ferreira, Carlos Alberto dos Santos. Directorate-General for Fisheries/Inspection, Avenida da Brasilia, 1400-038 Lisbon, Portugal
Tel: +351 213 025192 – Email: carlosferreira@dgrm.mm.gov.pt

França, Pedro Elias Salgueiro. CEO, S.A., Av. Pedro Álvares Cabral 188, 3830-786 Gafanha da Nazaré, Portugal
Tel: (+351) 234 390 250 – Email: pedrofranca@pedrofranca.pt

Gillies da Mota, Deborah. Aveiro, Portugal, 3810-162
Tel: + 351 96 240-5393 Email: dlouisegillies@gmail.com

Gomes Ventura, Isabel Maria. Directorate-General for Fisheries/Inspection, Avenida da Brasilia, 1400-038 Lisbon, Portugal
Tel: + 359 96 396 7535 – Email: isabelv@dgrm.mm.gov.pt

Gonzalez Costas, Fernando. Instituto Español de Oceanografía (IEO), Aptdo 1552, E-36280 Vigo, Spain
Tel: +34 986 49 22 39 – Email: fernando.gonzalez@ieo.es

González-Troncoso, Diana. Instituto Español de Oceanografía (IEO), Aptdo 1552, E-36280 Vigo, Spain
Tel: +34 986 49 21 11 – Email: diana.gonzalez@ieo.es

Gretarsson, Haraldur. Managing Director, Deutshe Fischfang-Union GmbH & Co. KG, 27472 Cuxhaven/Germany, Bei der Alten Liebe 5
Tel: +49 4721 7079-20 – Email: hg@dffu.de

Guerin, Benoît. Long Distance Fleet Advisory Council (LDAC)
Tel: + 0033 632 026 815 – Email: bgseaconsulting@gmail.com

Hubel, Kalvi. Estonian Marine Institute, University of Tartu, Estonia, Vanemuise 46a, Tartu, 51014
Email: kalvi.hubel@ut.ee

Kazlauskas, Tomas. Director, Fisheries Service under the Ministry of Agriculture of the Republic of Lithuania, J. Janonio Str. 24, LT-92251Klaipėda, Lithuania
Tel: +370 700 149005 - Email: tomas.kazlauskas@zuv.lt

Labanauskas, Aivaras. Director, Atlantic High Sea Fishing Company, Pylimo Str. 4, LT-91249 Klaipėeda, Lithuania
Tel: +37 (0) 46 493 105 – Email: ala@pp-group.eu

Liria Franch, Juan Manuel. Vice Presidente, Confederación Española de Pesca, C/Velázquez, 41, 4° C, 28001 Madrid, Spain
Tel: +34 91 432 34 89 – Email: mliria@iies.es

Lizcano, Antonio. Ministry of Agriculture, Food and Environment
Tel: 34 601 601 884 – Email: alizcano@mapa.es

Lopez Van Der Veen, Iván M. Director Gerente, Pesquera Áncora S.L.U., C/Perú 1, 2°B, 36202 Vigo, Spain
Tel: +34 986 441 012 – Email: ivan.lopez@pesqueraancora.com

Mancebo Robledo, Margarita. Ministry of Agriculture, Food and Environment. Velázquez, 144, 28006 Madrid, Spain
Tel: +34 91 347 61 29– Email: cmancebo@mapama.es

Marot, Laura. European Commission, Directorate-General for Maritime Affairs and Fisheries, B2 Unit - Regional Fisheries Management Organisations, J99 03/061, B-1049 Brussels/Belgium
Tel: +32 2 29-93892 – Email: laura.marot@ec.europa.eu

Märtin, Kaire. Republic of Estonia, Ministry of the Environment, Narva mnt 7a, 15172 Tallinn, Estonia
Tel: +372 6260 711 – Email: kaire.martin@envir.ee

Meremaa, Epp. Fisheries Economics Department, Ministry of Rural Affairs of the Republic of Estonia, Lai tn 39 // Lai tn 41, 15056 Tallinn, Estonia
Tel: +37 2 6256204 – Email: epp.meremaa@agri.ee

Molares Villa, José. Subdirector, Technological Institute for the Marine Environment Monitoring of Galicia, Peirao de Vilaxoán, s/n, 36611 Vilagarcía de Arousa (Pontevedra), Spain
Email: jmolares@gmail.com

Óttarsson, Yngvi. Sidumuli 34, 108 Reykjavik, Iceland
Tel: +354 892 1519 – Email: yngvi@iec.is

Owen, Marc. Department for Environment, Food & Rural Affairs (DEFRA), Seacole Building, 2 Marsham Street London, United Kingdom W1P 4DF
Email: marc.owen@defra.gov.uk

Paião, Jorge Calão Machado. Pascol & Filhos, SA, Cais dos Bacalhoeiros, Apartado 12, 3834-908 Gafanha da Nazare, Portugal
Tel: +351 234 390 290 – Email: Jorge.paiao@pascoal.pt

Paião, Aníbal Machado. Pascoal & Filhos, S.A. Cais dos Bacalhoeiros, Apartado 12. 3834-908 Gafanha da Nazaré, Portugal
Tel: +351 234 390 290 – Email: adm.pascoal@pascoal.pt

Pildegovičs, Pēteris. Managing Director, SIA North Star Ltd.
Tel: +371 29 206 827 – Email: Peteris.Pildegovics@gmail.com

Pott, Hermann. Federal Ministry of Food and Agriculture, Rochusstrasse 1, P.O. Box 14 02 70, 53107 Bonn, Germany
Tel: + 49 228 99529 4748 – Email: Hermann.pott@bmel.bund.de

Radaitytė, Eglė. Head of Fisheries Monitoring and Control Division, Fisheries Service under the Ministry of Agriculture of the Republic of Lithuania. Klaipėeda, Lithuania.
Tel: +370 700 14920 – Email: egle.radaityte@zuv.lt

Rhlalou, Rebecca. Council of the European Union, General Secretariat, Brussels, Belgium
Tel: +32 4 74 72 00 48 – Email: rebecca.rhlalou@consilium.europa.eu

Riekstiņš, Normunds. Director, Fisheries Department, Ministry of Agriculture, 2, Republikas laukums LV-1981 Riga, Latvia
Tel: +371 6709 5045 – Email: normunds.riekstins@zm.gov.lv

Rodriguez, Alexandre. Secretario General, Long Distance Advisory Council (LDAC), Calle de Dr. Fleming 7, 2 DCHA, 28036, Madrid, Spain
Tel: +34 914 32 3623 – Email: alexandre.rodriguez@ldac.eu

Round, Jake. Department for Environment, Food & Rural Affairs (DEFRA), Seacole Building, 2 Marsham Street London, United Kingdom W1P 4DF
Tel: +078 603 47 486 – Email: Jake.Round@defra.gov.uk

Sacau-Cuadrado, Mar. Instituto Español de Oceanografía (IEO), Centro Oceanográfico de Vigo. C.P: 36390 Vigo, Spain
Tel: +34 986 49 21 11 – Email: mar.sacau@ieo.es

Sampson, Harry. Department for Environment, Food and Rural Affairs (DEFRA), International Fisheries 1st Floor Seacole Building NW, 2 Marsham Street, London, W1 4DF, UK
Tel: + 020 802 64403– Email: Harry.sampson@Defra.gov.uk

Santos, Mario. Head of Unit, EU Waters and North Atlantic, European Fisheries Control Agency (EFCA), Apartado de Correos 771 – E-36200 Vigo, Spain
Tel: +34 986 12 06 71 – Email: Mario.santos@efca.europa.eu

Sarevet, Mati. Managing Director, Reyktal AS, Veerenni 39, 10138 Tallinn, Estonia
Tel: +372 627 6545 – Email: reyktal@reyktal.ee

Sepulveda, Pedro. Secretaría General de Pesca, Subdirección General de Acuerdos y Organizaciones Regionales de Pesca, Velazquez 144, 28006 Madrid, Spain
Tel: +34 913 476 137 – Email: psepulve@mapama.es

Sild, Kristi. Board Member MFU LOOTUS OU, Rävala pst 4, 10143 Tallinn
Tel: +372 640 0250 – Email: kristi.sild@lextal.ee

Spezzani, Aronne. European Commission, , DG-MARE, Rue Joseph II, 99, B-1049, Brussels, Belgium
Tel: +32 2 295 9629 – Email: aronne.spezzani@ec.europa.eu

Starr, Antony. Specialist, EU Affairs, Ministry of Agriculture and Forestry, Hallituskatu 3 A, Helsinki, PO Box 30, FI-00023 Government, Finland
Tel: +358 2951 60216 – Email: antony.starr@mmm.fi

Szemioth, Bogusław. North Atlantic Producers Organization, ul. Parkowa 13/17/123, 00-759 Warsaw, Poland
Tel: +48 22 840 8920 – Email: szemioth@atlantex.pl

Szumlicz, Justyna. Head of Unit, Long Distance Fisheries Unit, Department of International Cooperation, Ministry of Maritime Economy and Inland Navigation, 6/12 Nowy Swiat St., 00-400 Warsaw, Poland
Tel: +48 22 583 89 60 – Email: Justyna.Szumlicz@mgm.gov.pl

Teixeira, Isabel. Head of External Resources Division, Ministry of the Sea, Directorate General for Natural Resources, Safety and Maritime Services (DGRM), Avenida Brasilia, 1449-030 Lisbon, Portugal
Tel: +351 21 303 5825 – Email: iteixeira@dgrm.mm.gov.pt

Tamme, Toomas. Attorney-at-Law, Managing Partner, Law Firm LINKLaw, Maakri 23a, Tallinn 10145
Tel: +351 21 397 2094 – Email: toomas.tamme@linklaw.ee

Tubio Rodriguez, Xosé. Inspector, Fisheries Control and Inspections, Directorate-General for Maritime Affairs and Fisheries, European Commission, J-99 01/074, 1049 Brussels, Belguim
Tel: +32 2 299 77 55 – Email: xose.tubio@ec.europa.eu

Ulloa Alonso, Edelmiro. Secretario Técnico Para Asaciones, Fishing Ship-owners' Cooperative of Vigo (ARVI), Puerto Pesquero de Vigo, Apartado 1078, 36200 Vigo, Spain
Tel: +34 986 43 38 44 – Email: edelmiro@arvi.org

Urcola Telleria, Ignacio. Managing Director, Velaspex, Euskadi Etorbidea, 53 – 1B, 20110-Pasaia (Guipuzcoa) Spain
Tel: +34 943 390 102 – Email: iurcola@velaspex.com

Vaz Pais, Tiago Dantas. Av Ferno de Megalhees, 584 1 E 3000-174 Coimbra, Portugal
Tel: +351 914 934 500 – Email: saojacinto.tpais@sapo.pt

Vilhjálmsson, Hjálmar. Estonian Long Distance Fishing Association (ELDFA), Veerenni 39, 10138 Tallinn, Estonia
Tel: +354 896 9713 – Email: hjalmar@reyktal.is

FRANCE (IN RESPECT OF ST. PIERRE ET MIQUELON)

Head of Delegation

Artano, Stéphane. (see Chairs)

Alternate Head of Delegation

Bouvier, Laurent. Deputy Director, Maritime Fisheries and Aquaculture Directorate, Tour Séquoia, 92055 Paris La Defense Cedex, France
Tel: +33 01 40 81 93 13 – Email: Laurent.bouvier@agriculture.gouv.fr

Gatto, Stéphane. Ministry for Food and Agriculture, Fisheries Department, Deputy Head of Delegation
Tel: +00 33 7 60 63 33 92 – Email: stephane.gatto@agriculture.gouv.fr

Advisers/Representatives

Bouchelaghem, Mehdi, Administrateur Principal des Affaires Maritimes (APAM), 1 Rue Gloanec BP 4206, 97500, Saint-Pierre de Miquelon
Email : mehdi.bouchelaghem@equipement-agriculture.gouv.fr

Girardin, Vickie. Adjointe au secrétaire général, Directrice des politiques publiques interministérielles et de l'ancrage territorial, Préfecture de Saint-Pierre et Miquelon, Place du Lieutenant-Colonel Pigeaud, BP 4200 – 97500, Saint-Pierre et Miquelon
Tel : 05 08 41 10 26 – Email: vickie.girardin@spm.gouv.fr

Goraguer, Herlé. French Research Institute for Exploitation of the Sea (IFREMER), Quai de l'Alysse, BP 4240, 97500, St. Pierre et Miquelon
Tel: +05 08 41 30 83 – Email: herle.goraguer@ifremer.fr

Jacquot, Stéphane. Chargé de mission, Maritime Fisheries and Aquaculture Directorate, Tour Séquoia, 92055 Paris La Defense Cedex, France
Tel: +33 01 40 81 93 58 – Email: stephane.jacquot@agriculture.gouv.fr

Lallemand, Olivier. Chef de la Division Économie et Formation, DIRM Sud Atlantique
Email: olivier.lallemand@développement-durable.gouv.fr

Laurent-Monpetit. Ministere de l'interieur, de l'outre-mer et des collectivites territoriales, Department des politiques agricoles, rurales et maritimes, Delegation generale a l'outre-mer, 27, rue Oudinot, 75738 Paris SP07
Tel: +01 (53) 69 24 66 – Email: christiane.laurent-monpetit@outre-mer.gouv.fr

Leduc, Xavier. Chief Operating Officer, Comptoir des Pêche d'Europe du Nord, 13 Rue Huret Lagache – B.P. 447, 62206 Boulogne Sur Mer, Cedex, France
Tel: +33 03 21 10 95 95 - Email: xleduc@euronor.eu

Monneau, Marianna. Ministry for Ecology, Sustainable Development and Energy, International Mission Head, Directorate for Sea Fisheries and Aquaculture, Tour Séquoïa, 1, place Carpeaux, 92055 Paris-La Défense Cedex, France
Tel: +33 01 40 81 90 38 – Email: marianna.monneau@agriculture.gouv.fr

Nicolle, Laurent. Directeur Halieutique, Le Garrec Groupe, B.P. 385 – F-62205 Boulogne sur Mer, Cedex, France
Tel: +33 0 3 21 30 65 00 – Email: lnicolle@legarrec.fr

Tourtois, Benoît. Policy Officer, Subdirectorate for Fisheries Resources, Directorate for Sea Fisheries and Aquaculture, Ministry for Food and Agriculture, Tour Séquoïa, place Carpeaux, 92055 Paris-La Défense Cedex, France
Tel: +33 01 40 81 89 86 – Email: benoit.tourtois@agriculture.gouv.fr

ICELAND

Head of Delegation

Benediktsdóttir, Brynhildur. Senior Expert, Department of Fisheries and Aquaculture, Ministry of Industries and Innovation, Skúlagötu 4, 150 Reykjavik, Iceland
Tel: +354 545 9700 – Email: brynhildur.benediktsdottir@anr.is

Alternate Head of Delegation

Ingason, Björgólfur H. Chief controller, Icelandic Coast Guard, Skógarhlíð 14, 105 Reykjavík, Iceland
Tel: +354 545 2111 – Email: Bjorgolfur@LHG.IS

Advisers/Representatives

Asmundsson, Johann. Directorate of Fisheries, Ministry of Industries and Innovation, Fiskistofa, Dalshrauni 1, 220 Hafnarfjordur, Iceland
Email: johann@fiskistofa.is

Bjornsson, Birgir H. Icelandic Coast Guard, Skógarhlíð 14, 105 Reykjavík, Iceland
Email: Birgir@LHG.IS

JAPAN

Head of Delegation

Iino, Kenro. Adviser, Ministry of Agriculture, Forestry and Fisheries (MAFF), Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, 100-8950 Toyko, Japan
Tel: +81 3 3502 8460 – Email: keniino@hotmail.com

Minagawa, Yasuyuki. Operating Officer, General Manager, Overseas Operations Department, Taiyo A&F Co., Ltd., Toyomishinko Bldg., 4-5, Toyomi-cho, Chuo-ku, Tokyo, Japan 104-0055
Email: y-minagawa@maruha-nichiro.co.jp

Miwa, Takeshi. Assistant Director, International Affairs Division, Resources Management Department, Fisheries Agency, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, 100-8950 Toyko, Japan
Tel: +81 3 3502 8460 – Email: takeshi_miwa090@maff.go.jp

Moronuki, Hideki. Counsellor, Resources Management Department, Fisheries Agency, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, 100-8950 Toyko, Japan
Tel: +81 3 3502 2443 – Email: hideki_moronuki600@maff.go.jp

Nishida, Tsutomu (Tom). Associate Scientist, National Research Institute of Far Seas Fisheries, Fisheries Research Agency, 5-7-1, Orido, Shimizu-Ward, Shizuoka-City, Shizuoka, Japan 424-8633
Tel: +81 54 336 8534 – Email: aco20320@par.odn.ne.jp

Okamoto, Junichiro. Executive Managing Director, Japan Overseas Fishing Association, Tovei Ogawamachi-Bldg., 5F, 2-6-3 Kanda Ogawa-Machi, Chiyoda-ku, Tokyo, 101-0052, Japan
Tel: +03 3291 8508 – Email: jokamoto@jdsta.or.jp

Shinohara, Shogo. Assistant Director, Fishery Division, Economic Affairs Bureau, Ministry of Foreign Affairs, Government of Japan, 1-2-1 Kasumigaseki, Chiyoda-ku, 100-8950 Toyko, Japan
Tel: +81 3 5501 8338 – Email: shogo.shinohara@mofa.go.jp

Wakasa, Nobuyuki. President, Taiyo A&F Co., Ltd., 4-5, Toyomi-cho, Chuo-ku, Tokyo, Japan 104-0055
Tel: +090 116 5103 – Email: n-wakasa@maruha-nichiro.co.jp

NORWAY

Head of Delegation

Vikanes, Ingrid. Senior Adviser, Norwegian Ministry of Trade, Industry and Fisheries, P.O. Box 8090 Dep, NO-0032 Oslo, Norway
Tel: +47 957 227 03 – Email: iv@nfd.dep.no

Advisers/Representatives

Bergstad, Odd Aksel. Principal Research Scientist, Institute of Marine Research, Flødevigen, N-4817 His, Norway
Tel: +47 90539902 – Email: odd.aksel.bergstad@imr.no

Gramstad, Kjetil. Adviser, Directorate of Fisheries, Fisheries Regulations Section, Postboks 185 Sentrum, N-5804 Bergen, Norway
Tel: +47 55 23 80 00 / 8394 – Email: Kjetil.Gramstad@fiskeridir.no

Hvingel, Carsten. Head of Research Group, Institute of Marine Research , P.O. Box 1870 Nordnes, 5817 Bergen, Norway
Tel: +47 95980565 – Email: carsten.hvingel@hi.no

Ognedal, Hilde. Senior Legal Adviser, Norwegian Directorate of Fisheries, P. O. Box 185, Sentrum, 5804 Bergen, Norway
Tel: +47 92 08 95 16 – Email: Hilde.Ognedal@fiskeridir.no

Vaskinn, Tor-Are. Head of Department, Norwegian Fishermen's Association, Fiskebatredernes Forbund, Strandveien 106, 9006 Tromsø, Norway
Tel: +90 64 09 78 –Email: tor-are@fiskebat.no

REPUBLIC OF KOREA

Head of Delegation

Lee, Haena. Policy Advisor, Korea Overseas Fisheries Cooperation Center, 6th FL, S Building, 253, Hannuri-daero, Sejong, Korea
Tel: +82-44-868-7363 – Email: hn.lee@kofci.org

Advisers/Representatives

Choe, Donghwan. Assistant Manager, Korea Overseas Fisheries Association, 6th FL, Samho Center Building, 83, Nonhyeon-ro, Seocho-gu, Seoul, Korea
Tel: + 82-02-589-1618 – Email: dhchoe@kosfa.org

RUSSIAN FEDERATION

Head of Delegation

Tairov, Temur. Representative of the Federal Agency for Fisheries of the Russian Federation in Canada, 47 Windstone Close, Bedford, Nova Scotia, B4A4L4
Tel: +1 902 405 0655 – Email: temurtairov@mail.ru

Alternate Head of Delegation

Badina, Julia. Head of Division, Department of International Cooperation, Federal Agency for Fisheries, Russian Federation
Tel: (495) 987-06-45 – Email: badina@fishcom.ru

Advisers/Representatives

Bakeiro, Pavel. RQF Co Ltd., Tralovaya str., 12A, Office 101, Murmansk 183001
Tel: + 8 8152 550 360

Drevetnyak, Konstantin. Director General, Fisheries Industry Union of the North, Shmidta str., 43, Murmansk, Russia 183038,
Tel: +7 8152 47 66 75 - Email: kvdrevetnyak_srps@mail.ru

Egochina, Victoria. Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), 6 Knipovich St., Murmansk 183763
Tel: +7 8113062277 – Email: egochina@pinro.ru

Fomin, Konstantin. Specialist, Russian Research Institute for Fisheries and Oceanography, Polar branch (PINRO), 6 Knipovich St., Murmansk 183763
Tel: + 7 8152 47 2469 – E -mail: fomin@pinro.ru

Rozhnov, Viktor. Head of the Barentsevo-Belomonskoe Territorial Department of the Federal Agency for Fisheries, 7 Kominterna St., Murmansk 183038
Tel: + 7 921 161 6766 – Email: murmansk@bbtu.ru

Shirvel, Irina. Director RQF Co Ltd, Tralovaya str., 12A, Office 101, Murmansk 183001
Tel: + 79 11 300 3454 – Email: irina.dobr@mail.ru

Skryabin, Ilya. Principal Specialist, Barentsevo-Belomonskoe Territorial Department of the Federal Agency for Fisheries, 7 Kominterna St., Murmansk 183038
Tel: +7 815 279 8116 – Email: skryabin@bbtu.ru

UKRAINE

Head of Delegation

Druzhchenko, Kseniia. Deuxième Secrétaire, Embassy of Ukraine in the French Republic
Tel: +07 66 29 05 27 – Email: darg@darg.gov.ua

Advisers/Representatives

Litvinov, Valentin. Executive Director/Head of the Secretariat, Federation of the Ukrainian Fisheries, All-Ukrainian Public Organization
Tel: +38 099 536 3550 – Email: rybalky@ukr.net

UNITED STATES OF AMERICA

Head of Delegation

Pentony, Michael. Regional Administrator for NOAA Fisheries Greater Atlantic Regional Fisheries Office, National Oceanic and Atmospheric Administration, (NOAA), NMFS Greater Atlantic Regional Office, Gloucester, MA 01930
Tel: +1 978-281-9283 – Email: michael.pentony@noaa.gov

Commissioner

Reid, Eric. United States Commissioner to the Northwest Atlantic Fisheries Organization, General Manager, Seafreeze Shoreside, Inc., 75 State St., Narragansett, (Pt. Judith) Rhode Island 02882 USA
Tel: +1 401 267 4470 – Email: ericreidri@gmail.com

Sissenwine, Michael. United States Commissioner to the Northwest Atlantic Fisheries Organization, New England Fishery Management Council, 39 Mill Pond Way, East Falmouth, MA 02536 USA
Tel: +1 508 566-3144 – Email: m.sissenwine@gmail.com

Advisers/Representatives

Cyr, Kathy. Lt. Commander, Office of Law Enforcement, First Coast Guard District, United States Coast Guard USA
Email: Kathryn.r.cyr@uscg.mil

Hendrickson, Lisa. Research Fishery Biologist, National Marine Fisheries Service, National Oceanic and Atmospheric Administration, 166 Water Street, Woods Hole, MA 02543 USA
Tel: +1 508 495 2285 – Email: lisa.hendrickson@noaa.gov

Henry, Michael. Assistant Special Agent in Charge, Office of Law Enforcement, District 1- New England, Boston Field Office, National Marine Fisheries Service, National Oceanic and Atmospheric Administration (NOAA) USA
Tel: +1 978 490-4774– Email: Michael.henry@noaa.gov

Kelly, Moira. Senior Fishery Program Specialist, Regional Recreational Fisheries Coordinator, Greater Atlantic Regional Fisheries Office, National Marine Fisheries Service, 55 Great Republic Drive, Gloucester, MA 01930 USA
Tel: +1 978-281-9218 – Email: moira.kelly@noaa.gov

Martin, Gene, Chief, Northeast Section, Office of NOAA General Counsel, National Oceanic and Atmospheric Administration, (NOAA), 55 Great Republic Drive, Gloucester, MA 01930 USA
Tel: + 1 978 281 9242– Email: gene.s.martin@noaa.gov

Mencher, Elizabethann. International Policy Advisor, Office of International Affairs and Seafood Inspection, National Marine Fisheries Service, National Oceanic and Atmospheric Administration, (NOAA), 1315 East-West Hwy., Silver Spring, MD 20910, USA
Tel: +1 301 427 8362 – Email: elizabethann.mencher@noaa.gov

Moran, Patrick. Foreign Affairs Analyst, National Marine Fisheries Service, Office of International Affairs, National Oceanic and Atmospheric Administration, (NOAA), 1315 East-West Hwy., Silver Spring, MD 20910 USA
Tel: +1 301 427 8370 – Email: Pat.Moran@noaa.gov

Pohl, Katherine. Attorney Advisor, Office of General Counsel for Enforcement and Litigation, Greater Atlantic Regional Office, National Oceanic and Atmospheric Administration (NOAA), 55 Great Republic Drive, Gloucester, MA 01930 USA
Tel: +1 978 281 9107 – Email: katherine.pohl@noaa.gov

Raymond, Maggie. Executive Director, Associated Fisheries of Maine, P.O. Box 287, South Berwick, ME 03908 USA
Tel: +1 207 384 4854 – Email: MaggieRaymond@comcast.net

Sosebee, Katherine. Science Advisor, Northeast Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration (NOAA) USA
Tel: +1 508 495 2372 – Email: katherine.sosebee@noaa.gov

Usher, Richard. Senior Vice President, A.I.S. Inc., 14 Barnabas Road, PO Box 1009, Marion, MA 02738 USA
Tel: +1 774 200 0563 – Email: ricku@aisobservers.com

Warner-Kramer. Deirdre. Acting Deputy Director, Office of Marine Conservation (OES/OMC), U.S. Department of State, Washington, DC 20520
Tel +1 202 647 2883 – Email: warner-kramerdm@fan.gov

OBSERVERS

ABNJ Deep Seas Project

Emerson, William. Coordinator, ABNJ Deep Seas Project, Viale delle Terme di Caracalla, 00153 Rome, ITALY
Email: william.emerson@fao.org

Ecology Action Centre (EAC)

Arnold, Shannon. Marine Policy Coordinator, Ecology Action Centre, 2705 Fern Lane, Halifax, NS, B3K 4L3, Canada
Tel: +902 446-4840 – Email: sarnold@ecologyaction.ca

Oceans North

Fuller, Susanna. Oceans North Canada, 1533 Barrington Street, Suite 202, Halifax, NS B3J 1Z4
Email: susannafuller@oceansnorth.ca

Schleit, Katie. Oceans North Canada, 1533 Barrington Street, Suite 202, Halifax, NS B3J 1Z4
Tel: +1 902 488 4078 – Email: kschleit@oceansnorth.ca

International Council for the Exploration of the Sea (ICES)

Dickey-Collas, Mark. H. C. Andersens Boulevard 44-46, DK 1553 Copenhagen V, Denmark
Tel: +45 3338 6700 – Email: Mark.dickey-collas@ices.dk

Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR)
Represented by the Delegation of the European Union (see above)

North-East Atlantic Fisheries Commission (NEAFC)
Represented by Katrine Kærgaard, Delegation of Denmark (in respect of Faroe Islands and Greenland) (see above)

South East Atlantic Fisheries Organisation (SEAFO)
Represented by the Delegation of the European Union (see above)

South Pacific Regional Fisheries Management Organisation (SPRFMO)
Represented by Kate Sanderson, Denmark (in respect to Faroe Islands and Greenland) (see above)

INTERPRETERS

Jacq, Christopher	Email: christopher_jacq@hotmail.com
Bazin, Florence	Email: bazinflorence@orange.fr

NAFO SECRETARIAT

2 Morris Dr., Suite 100, Dartmouth, Nova Scotia – Tel: +1 (902) 468-5590

Kingston, Fred. Executive Secretary.	Email: fkingston@nafo.int
Goodick, Stan. Deputy Executive Secretary/ Senior Finance and Staff Administrator.	Email: sgoodick@nafo.int
Aker, Jana. Fisheries Information Administrator.	Email: jaker@nafo.int
Bell, Dayna. Scientific Information Administrator.	Email: dbell@nafo.int
Blasdale, Tom. Scientific Council Coordinator.	Email: tblasdale@nafo.int
Federizon, Ricardo. Senior Fisheries Management Coordinator.	Email: rfederizon@nafo.int
Kendall, Matthew. IT Manager.	Email: mkendall@nafo.int
Laycock, DJ, Database Developer/Programmer Analyst.	Email: dlaycock@nafo.int
Lefort, Lisa, Senior Executive Assistant.	Email: llefort@nafo.int
Guile, Sarah, Office Administrator.	Email: sguile@nafo.int
Pacey, Alexis, Senior Publications Manager.	Email: apacey@nafo.int
Shirvel, Polina. Interpreter.	
Wall, Anna, Intern	

Annex 4. Opening Statement by Mr. Didier Guillaume, Minister of Agriculture and Food, Government of France

Monsieur le Président de l'Organisation des pêches de l'Atlantique Nord-Ouest, monsieur le secrétaire exécutif de l'OPANO, mesdames et messieurs les élus, mesdames et messieurs les représentants des Etats-parties à l'OPANO, mesdames et messieurs.

Je tiens à vous faire part, au nom du Gouvernement français, de ma fierté de recevoir pour la première fois en France la réunion plénière de l'OPANO, les 12 délégations des Etats-parties à l'Opano et près de 200 participants ;

C'est une grande joie de pouvoir vous accueillir dans cette magnifique ville de Bordeaux dont les liens sont si forts avec les Outre-mer français. Je remercie les autorités locales qui nous ont aidé à organiser cette session à Bordeaux.

La France siégeant à l'OPANO au titre de Saint-Pierre et Miquelon, je forme le souhait que Saint-Pierre et Miquelon puisse accueillir dans le futur des réunions de groupes de travail de l'OPANO.

Je suis convaincu que la coopération multilatérale dans les pêches de l'Atlantique du Nord-Ouest est le meilleur moyen pour conserver et exploiter de façon optimale les ressources halieutiques.

L'OPANO a été et reste pionnière dans de nombreux domaines comme la préservation des milieux marins.

L'OPANO a su prendre des mesures très fortes allant jusqu'à un moratoire sur les stocks de cabillaud qui s'étaient effondrés au début des années 90. Ces mesures commencent à avoir un effet : il a été possible de rouvrir certaines pêcheries telles que celle de la morue en zone 3M.

La pêche du cabillaud a toujours été étroitement liée à l'histoire de l'archipel de Saint-Pierre et Miquelon, et bien avant la création de l'OPANO, l'archipel avait déjà développé avec son voisin le Canada, des mesures de gestion communes des stocks partagés.

Je tiens à saluer à cette occasion la bonne coopération bilatérale avec le Canada pour la gestion de nos zones économiques exclusives.

Parmi les nombreuses autres décisions mises en œuvre par l'OPANO, je citerais l'encadrement de la pêche profonde ou les mesures de conservation des requins qui traduisent la mise en œuvre progressive de l'approche écosystémique des pêches.

Enfin, je salue l'investissement de l'actuel président de la commission de l'OPANO, mon ami le sénateur Stéphane ARTANO, qui a su œuvrer, depuis 3 ans maintenant, grâce à sa parfaite connaissance des enjeux des pêcheries sur la zone géographique de l'OPANO, pour une tenue des débats constructive et efficace et sous la présidence duquel aura été possible l'amendement à la Convention de 1978, qui permet dorénavant la prise en compte dans les décisions prises par l'organisation de l'objectif de durabilité des pêcheries, et l'approche écosystémique des pêches.

Aussi je vous souhaite à tous des réunions fructueuses, je sais que vos travaux seront intenses, et je serai attentif aux décisions importantes qui seront prises concernant les stocks de morue et de sébaste.

J'espère enfin que vous garderez un très bon souvenir de votre séjour en France et en Nouvelle-Aquitaine.

Annex 5. Opening Statement by the NAFO President

Chers Directeurs, distingués collègues,

Chers amis,

Je suis très heureux et honoré de vous accueillir à la 41ème réunion annuelle de l'Organisation des pêches de l'Atlantique du Nord-Ouest. C'est la première fois que la France accueille la réunion annuelle de l'OPANO et je souhaite exprimer mes plus chaleureux remerciements au Gouvernement français pour sa superbe organisation. Nous sommes dans la belle et historique ville de Bordeaux - classée au patrimoine mondial de l'UNESCO - et j'espère que vous aurez tous l'occasion de profiter de tout ce que la ville a à offrir et je sais que nos hôtes français ne feront que vous encourager faire cela !

Néanmoins, nous avons également beaucoup de travail à faire cette semaine. Cette réunion est le point d'orgue d'une année encore très chargée depuis notre dernière rencontre à Tallinn. L'examen des propositions concernant la manière de donner suite aux recommandations de la revue de la performance de l'année dernière est d'une importance capitale. Quoi que nous décidions sur cette question, sera sans aucun doute l'axe des travaux de l'OPANO au cours des prochaines années.

Les autres sujets que nous devrons traiter concernent notamment les aspects suivants:

- Comment allons-nous progresser sur la stratégie de gestion de l'évaluation de la morue en 3M?
- Examen du rapport et des recommandations de la récente étude méthodologique sur les estimations des captures;
- l'examen des progrès accomplis dans le plan d'action pour la gestion et la minimisation des captures accessoires et des rejets; et
- la poursuite des progrès dans l'élaboration du cadre d'approche écosystémique de l'OPANO pour la gestion des pêches, y compris l'élaboration de la feuille de route de l'OPANO pour cette approche écosystémique.

En ce qui concerne le cadre de l'approche écosystémique de l'OPANO, je tiens à souligner en particulier que l'examen de la revue de la performance de l'année dernière a été particulièrement positif, affirmant, je cite, que les travaux à ce jour ont été « novateurs » en *« démontrant comment une approche écosystémique peut-être mise en pratique dans le contexte de la gestion internationale des pêches sur une base scientifique significative. "*

Dans ce domaine et dans d'autres, je pense sincèrement que l'OPANO peut être fière de ses réalisations jusqu'à présent.

Nous avons démontré ce qu'une organisation régionale de gestion des pêches peut faire pour promouvoir la conservation et l'utilisation durable des ressources relevant de sa compétence.

Cela a été reflété dans le rapport généralement positif du comité d'évaluation des performances de l'année dernière et intervient à un moment où la performance des ORGP fait l'objet d'un contrôle croissant de la part de la communauté internationale.

Je pense aussi que les réalisations de l'OPANO se font progressivement remarquer au niveau international.

Cependant, il reste encore beaucoup à faire pour que nous puissions faire passer le message, non seulement à la communauté internationale, mais également à nos propres gouvernements respectifs. Ce point est fondamental, car les États sont en train de négocier avec les Nations Unies un traité international de protection de la biodiversité en haute mer, dont les résultats pourraient avoir de profondes répercussions sur nos travaux futurs.

Voilà dans les grandes lignes notre au travail cette semaine.

Je tiens à remercier les Parties contractantes pour leurs contributions positives tout au long de l'année, qui se poursuivront certainement cette semaine. Je tiens également à remercier le Secrétariat pour son soutien tout au long de l'année.

Enfin, je tiens à remercier une nouvelle fois la France pour l'organisation de cette réunion, qui doit effectivement nous placer dans un état d'esprit positif pour les défis de la semaine à venir.

Je vous souhaite, je nous souhaite d'être particulièrement efficaces cette semaine et déclare officiellement ouverte la 41e session annuelle de l'OPANO!

Annex 6. Opening Statement by the Delegation of Canada

Canada is pleased to participate in the 41st NAFO Annual Meeting and extends its sincerest thanks to France and the people of Bordeaux for hosting. We look forward to exploring this historic port city and enjoying French hospitality in the days ahead.

We would also like to applaud the efforts of the NAFO Secretariat to organize this year's meeting. As ever, the Secretariat's attention to detail and expertise in support of the Commission, the Scientific Council and other NAFO bodies is greatly appreciated by all Contracting Parties.

In recent years, Contracting Parties have cooperated to advance many important initiatives and we have no doubt this will continue during the course of what will most assuredly be a busy, but productive week.

The recently completed second NAFO Performance Review detailed some of these recent gains and Canada is pleased with both the content and the tone of the report. An Action Plan has since been developed and work to address many of the Performance Review's recommendations is already underway. Canada welcomes the opportunity to participate in these efforts and has every confidence that, like in 2011, the recommendations will be addressed in a timely fashion.

NAFO's Scientific Council likewise deserves recognition for its efforts in 2019. Its work informs nearly everything NAFO does, including perhaps most importantly, decisions in support of the sustainable management of fish stocks in the Regulatory Area. NAFO's forward agenda suggests Scientific Council's workload will remain heavy for the foreseeable future and we again urge Contracting Parties to contribute to both the Council's expertise and capacity.

In addition to the Performance Review, NAFO Working Groups continue to make important strides. By way of example, the Working Group on Bycatches, Discards and Selectivity further advanced its Action Plan and is on target to meet both its identified deliverables and timelines. Beyond providing timely catch estimates to the Scientific Council in support of stock assessments, the Catch Estimation Strategy Advisory Group continues to explore means to refine and enhance its methodology. Finally, the Working Group on Ecosystem Approach Framework to Fisheries Management made important advancements toward the reassessment of VME closures, and the impacts of NAFO bottom fishing in 2020 and 2021 respectively.

Each of these initiatives contributes to the achievement of NAFO's overall objectives and serve to both promote and protect our shared ocean resources. Further implementation of the ecosystem approach to fisheries, as well as a review of the Precautionary Approach Framework are likewise key to achieving these ends.

In the years ahead it will be ever more important that NAFO Contracting Parties work together to ensure that the northwest Atlantic Ocean remains healthy and productive for future generations. Canada looks forward to contributing to these efforts this week in Bordeaux and beyond.

Annex 7. Opening Statement by the Delegation of Denmark (in respect of the Faroe Islands and Greenland)

Mr. Chair, Distinguished Delegates, Observers, Ladies and Gentlemen,

The Faroe Islands and Greenland (DFG) would like to begin by thanking our French hosts for the opportunity to meet in this beautiful location of Bordeaux. Our delegation would also like to convey our appreciation and warm thanks to the Secretariat for their usual efficient preparations for the Annual Meeting.

We are pleased with the constructive follow-up of the recommendations from the Performance Review, and we will continue to work constructively with our NAFO partners to implement them. The importance of an independent Review of this kind for the credibility and transparency of our regional fisheries cooperation cannot be overstated.

One of the key issues this year for our delegation is the conservation and management of the cod stock in 3M. As you know, the Faroe Islands has the largest share of this stock of any single country. As such, we wish to see a long-term sustainable yield that can ensure our industry a secure and stable framework for their activities. Fluctuations in TACs from year to year need to be minimized, and we need to develop a management framework that can move us beyond this present ad hoc approach to setting TACs for 3M cod.

We are encouraged to see positive developments in the 3M shrimp stock and look forward to engaging with other delegations to act on the advice of the Scientific Council.

Our delegation is further looking forward to continuing the constructive discussions on how to minimize or eliminate discards and bycatches and improve selectivity.

Working groups take important tasks on their shoulders. However, it is increasingly a challenge to find time to participate in the many working groups, especially for Contracting Parties with limited human resources. We would like to discuss with others how we can find more time- and cost-efficient ways of addressing intersessional work in the coming year.

Mr. Chair, the Faroe Islands and Greenland are looking forward to a productive week in these lovely surroundings. We are looking forward to working constructively with all other delegations to contribute to a successful outcome of this 41st Annual Meeting of NAFO.

Thank you.

Annex 8. Opening Statement by the Delegation of the European Union

Mister Chair, Distinguished Delegates, Observers, Ladies and Gentlemen,

First of all, we would like to thank the Government of France for hosting the 41st Annual Meeting of NAFO in the wonderful city of Bordeaux, with its rich history and situated in a region famous for its wine and a long tradition in wine production.

Secondly, I would like to note the excellent preparatory work carried out ahead of this meeting which should allow us to reach decisions that will contribute to the effective management of international fisheries that this organisation has been entrusted to manage. This year overall biomass show significant declines in several areas and the situation for a number of important stock remain difficult. The Commission will again have to set TACs for fish stocks under the purview of NAFO that ensure their sustainable management for the years to come while taking into account environmental, economic and social considerations. The EU will continue to seek and support solutions based on the best available scientific advice, aiming to ensure long-term sustainability for the stocks and predictability for the industry that depend on their exploitation.

The EU has carefully studied the advice emanating from the Scientific Council and will continue supporting sustainable approaches for the long-term management of key stocks, such as cod and redfish in the Flemish Cap, which is of particular importance to the EU.

We also note with satisfaction the improving situation of Northern shrimp in division 3M, which have experienced an increase of its biomass for the past five years. After heavy sacrifices and the establishment of a moratorium in 2010 to ensure the rebuilding of the stock, the Scientific Council advised for the first time a reopening of the fishery. The timely advice will allow the Commission to discuss new management measures for this stock.

In addition, I would like to underline the importance of the Ecosystem Approach in NAFO while at the same time recognising the challenges in implementing such an approach. In the context of the 2020 re-assessment of VME closure, I reiterate the EU continuous support for a coherent policy protecting VMEs based on the latest and best science available and welcome the progress being made in assessing all the six FAO criteria.

I also wish the Commission to build on the second performance review adopted last year by adopting a meaningful Action Plan that will maintain the performance of this organisation at its highest level and better position it to meet its long-term objectives.

Regarding control and enforcement, the EU will continue to promote compliance of the EU fleet with the NAFO rules in force, both at sea and in port, and measures that increase the efficiency of NAFO's control and inspection systems.

The EU delegation looks forward to working with all Parties around the table in order to achieve the best possible result for NAFO stocks and ecosystems and to make this Annual Meeting in Bordeaux a joint success.

Annex 9. Opening Statement by the Delegation of Japan

Mr. Chairman, Distinguished Delegates, Observers, Ladies and Gentlemen,

On behalf of the Japanese Delegation, I would like to express my deepest gratitude to the Government of France for hosting the 41st Annual Meeting of NAFO in this beautiful city, Bordeaux. We also thank the NAFO Secretariat staff for the excellent preparation and arrangements, and wish all the best to our Chair, Mr. Artano.

As the Japanese Delegation expressed in the past meetings, NAFO has played an important role for fisheries management. NAFO, as the historic and leading RFMO, should develop conservation and management measures for sustainable use of fishery resources and the measures should be based on scientific advice. We should bear in mind that the NAFO Conservation and Enforcement Measures (CEM) would be taken into account by other RFMOs.

Mr. Chairman, on this occasion, I would like to address two regulatory measures of our interest and explain our thought for this year's NAFO Annual Meeting, namely establishments of Total Allowable Catch for Cod (3M) and Redfish (3M) in the next couple of years.

Regarding 3M Cod, the WG-RBMS recommended to the Commission to suspend its work for the MSE process of the species due to very large uncertainty in its stock-dynamics. It is disappointing but we do hope we would be able to start to work again soon for the eventual completion of MSE.

Stock status of 3M Redfish was also assessed by the SC this year. The SC advices that the catches should be drastically decreased from the current catch level because the current recruitment is very low and the spawning stock biomass is projected to decline in near future. It is very important for this Commission to take actions needed for the drastic reduction of the Total Allowable Catch (TAC). Japan believes that the Commission should show it strong commitment for the conservation of the valuable stock, while taking into account the socio-economic impact on the fishery. Although the negotiation would be tough, Japan will collaborate with all CPCs for the fruitful discussion on this issue.

With respect to the ecosystem approach, we consider the integration of ecosystem consideration into fisheries management advice makes sense, but key question is whether our current knowledge and understandings are sufficient to be able to achieve this objective. Therefore, we should take more cautious approach in dealing with this undertaking. Much more important thing is for managers to have full knowledge and understandings on the benefit of the ecosystem approach.

Mr. Chairman, the Japanese Delegation is ready to work closely and cooperatively with other delegations to find good solutions and sincerely hopes that this Annual meeting will be successfully and fruitfully concluded.

Thank you.

Annex 10. Opening Statement by the Delegation of the Russian Federation

Distinguished Delegates, Observers, Ladies and Gentlemen,

On behalf of the Russian Federation and the Russian delegation I would like to thank the Government of France for inviting us to the beautiful city of Bordeaux. The Russian delegation is very appreciative of both our hosts' efforts to organize this meeting and their wonderful expressions of hospitality. I would also like to thank the NAFO Secretariat for all their preparatory work they have done to set up this meeting.

As you know, NAFO had its second independent performance review in 2018. The review assessed NAFO's performance during the period 2011-2017, with special attention to the follow-up to the recommendations stemming from the 1st Performance Assessment Report. While the Report of the NAFO Performance Review Panel 2018 highlighted significant improvements NAFO had made over the period of six years as well as opportunities for ongoing improvement, the Panel identified external significant challenges and recommended areas that require further actions. Earlier this year, the NAFO Commission Working Group to Address the Recommendations of the 2018 Performance Review Panel met in Dartmouth to prioritize these recommendations and to develop an action plan. We would like to express our pleasure regarding the progress made by this Working Group and to express our thanks to all Contracting Parties involved in the development of the action plan. We were pleased to participate in these efforts. Proposed actions for 36 recommendations were developed and ongoing work by NAFO following the 2018 Annual Meeting as well as a suggested designation of the particular NAFO Standing Committee and/or Working Group were identified. The majority of recommendations in the Draft Plan of Actions are of high priority and need to be implemented within 1-2 years. That would require a lot of resources. There is a need to prioritize the tasks that stand before us and rationalize the efforts dedicated to them. In particular, we would like to turn the attention towards the PA Framework review and the discussion of acceptable risk for regulating the fish stocks. We hope that the Draft Action Plan will find endorsement this week.

As far as the stock management is concerned, some advice for a number of stocks this year suggests a severe reduction in TAC or even a closure of fisheries. We would advocate flexibility in making any decisions because it is easy to closure a fishery but it is very difficult to reopen it.

Finally, we have a full agenda ahead of us and we are looking forward to working constructively with all Contracting Parties to bring the issues on our agenda to successful conclusion.

Thank you!

Annex 11. Opening Statement by the Delegation of the United States of America (USA)

Mr. Chair, Delegates, Ladies, and Gentlemen, the United States is pleased to be here in beautiful Bordeaux and we would like to thank the Government of France for generously hosting the 41st NAFO Annual Meeting. We would also like to recognize and thank the NAFO Secretariat for the dedication and hard work to ensure that our annual meetings are organized, efficient, and successful year after year.

As the U.S. Government Commissioner to NAFO -- and the Regional Administrator of the Greater Atlantic Regional Fisheries Office at NOAA Fisheries -- I would like to express my delegation's appreciation in being here and our hope for a productive meeting. I am pleased to be joined by two other federally-appointed representatives to NAFO -- the other two Commissioners are Dr. Michael Sissenwine, who represents the New England Fishery Management Council, and Mr. Eric Reid, who represents the New England Fishing Industry.

At this 41st meeting of NAFO, the United States will continue to strongly advocate for consistency between the management decisions of the Commission and the advice of the Scientific Council, and that these decisions be made in a collaborative and transparent fashion. In support of these principles, NAFO members need to ensure that we are providing the necessary and appropriate scientific expertise and resources. We have an important opportunity at this Annual Meeting for the Commission and the Scientific Council to jointly strategize on NAFO work priorities. The Commission has consistently asked for additional, and more varied, advice from the Scientific Council, and we NAFO Members must ensure that the SC has the resources necessary to produce the high quality output necessary to achieve our goals as an Organization.

We will also continue to advocate for transparency – both in deliberations by NAFO bodies and the decisions that result from those deliberations. The United States will provide a proposal relating to the transparency of STACTIC working papers. The United States recognizes the commitment of NAFO to open discussion and information-sharing, and we look forward to furthering that principle this year.

Relative to NAFO stocks, while we welcome the positive developments reported by the Scientific Council regarding the Division 3M shrimp stock, we urge precaution moving forward – both regarding the re-opening of this fishery and the use of the previous time/effort-based management regime. Additionally, if the 3M shrimp fishery (or any fishery for that matter) is re-opened, while taking into account previous agreements reflected in the Quota Table, NAFO must engage in a transparent and open dialogue regarding how any fishing opportunities are to be allocated among all NAFO Parties and how the fishery will be managed. Again, we are hopeful for a productive dialogue on how to move forward given the apparent signs of recovery in this stock.

In addition to specific stock management considerations, we look forward to further work on the implementation of the recommendations of the recent performance review. We were pleased with the intersessional work undertaken by the Performance Review Working Group this year, and we look forward to continuing this dialogue. Several working groups have made significant progress over the past year, including STACTIC, Scientific Council, WG-EAFFM, WG-RBMS, and WG-BDS, and we look forward to hearing and building upon these results of that work this week.

I thank you for your attention and, again, I am looking forward to a productive and enjoyable week here in beautiful Bordeaux.

Annex 12. Opening Statement by the Ecology Action Centre

The Ecology Action Centre (EAC) thanks the Government of France for hosting this 41st Annual Meeting of NAFO in the captivating city of Bordeaux. We appreciate the opportunity to participate in the deliberations and share our perspectives.

Ecosystem Management Framework

NAFO has made impressive progress on its commitment to apply an ecosystem approach to fisheries management (EAF) in order to safeguard the marine environment and minimize the risk of long-term impacts of fishing activities. The efforts of the Working Group on Ecosystem Science and Assessment (WGESA) and the Scientific Council (SC) to build a Roadmap towards EAF and develop pilot EAF exercises as well as tools like the Ecosystem Summary Sheets (ESS) and ecosystem-based indices are ground-breaking.

Moving this important work forward is especially urgent in the NAFO Convention Area with ecosystem indices showing a less functional ecosystem than in the past and trends of declining productivity.

We urge the Commission to agree to concrete work on setting ecosystem level objectives and identifying how NAFO will further incorporate ecosystem indices into management decision.

Parties should also support the continued development of the Roadmap by committing resources and scientific expertise to this crucial process.

Impacts of other activities in the NAFO Convention Area

NAFOs ecosystem approach will be further strengthened by incorporating information on impacts of activities in the Convention Area such as oil and gas exploration and development, deep sea mining, and pollution. While these are outside the mandate of the Convention they will have severe impacts on the fish and habitats that NAFO manages.

Recognizing the lack of expertise and time in the Scientific Council to incorporate analysis of these activities, we urge the Commission and Parties to support and fund the participation of external experts whose collaboration can move this forward.

We also note that the Impact Assessment Agency of Canada is currently undertaking a Regional Environmental Assessment (REA) process: Offshore Oil and Gas Exploratory Drilling East of Newfoundland and Labrador. The area being assessed overlaps with the NAFO Convention Area and has implications for all future individual project proposals in the area. We urge the Commission to ensure NAFO is involved in the process, that NAFO provides information to the Committee overseeing the REA and that the Impact Assessment Agency of Canada is in dialogue with the NAFO secretariat.

Science Council capacity support

The workload and complexity of the analysis requested of the Scientific Council continues to outstrip their resources and time available. This undermines the ability of NAFO to ensure comprehensive and credible management in the Convention Area.

Parties should make every effort to provide funding, resources, and expertise to support the Scientific Council and working groups.

We also urge the Commission to give thorough consideration to all requests passed to the SC in order avoid work that does not fall under the workplan priorities.

Greenland shark

We are pleased to see initial work this past year identifying time and area hotspots for Greenland shark bycatch and discards. Continued efforts to minimize impact on this highly vulnerable species in the NAFO convention area and by Flag States is crucial.

We urge the Commission to clarify the requirement and mechanism for Parties to report discards of Greenland shark.

We also look to the Commission for continued support to the Secretariat's effort to digitize past observer data and for Parties to continue to work with NAFO to further refine data reporting for Greenland shark bycatch, discards, and landings.

Observers in the Standing Committee on International Control (STACTIC)

We appreciate the strides NAFO has made in recent years on transparency and openness to observer participation. We also recognize the important space STACTIC offers for international dialogue on IUU fishing and best practice for enforcement.

STACTIC presides over a considerable number of discussions that should be held in an **open, transparent manner** including topics such as bycatch and discard reporting, best practices on data collection and monitoring systems, observer safety, and compliance with the CEM. These and other such topics would also benefit from the expertise of non-governmental participants and observers. In order to ensure STACTIC remains effective for compliance of Parties and vessels, we understand that there may be select topics that would benefit from remaining in closed sessions for enforcement and government officials only.

We recommend the Commission publish a detailed agenda in advance of all STACTIC meetings that lists all topics to be covered and clearly indicates which topics will be in closed sessions. Observers and Parties should have time to respond to the agenda in advance of the meeting. Closed topics should be kept to an absolute minimum to ensure the highest level of transparency possible, while maintaining the effectiveness of the NAFO compliance process.

Annex 13. Opening Statement by Oceans North and Deep Sea Conservation Coalition

Chair, Heads of Delegation, Delegates and fellow Observers, we are pleased to be making this opening statement on behalf of Oceans North and the Deep Sea Conservation Coalition, in the beautiful city of Bordeaux.

As this is Oceans North's first attendance as an observer to NAFO, we want to thank you for the continued transparency and for welcoming observer organizations. We work in the Arctic and Atlantic Oceans, with the goal of achieving healthy ocean ecosystems and vibrant coastal communities with a focus on Indigenous fisheries and conservation initiatives.

The Deep Sea Conservation Coalition and its 75+ member organizations continue to work towards the protection of vulnerable marine ecosystems and the sustainable management of deep sea fisheries. We have seen significant progress in NAFO's efforts towards these ends over the past decade and look forward to a continuation of that progress at this year's meeting.

We are calling on NAFO this year close all remaining seamounts in the NAFO Regulatory Area to bottom fishing activity. NAFO was the first RFMO to adopt conservation measures for seamounts in 2006, but in 2019, the job is not yet complete. If this was agreed, NAFO would be the first RFMO to close all seamounts setting an important precedent for high seas fisheries management.

While we are well aware of the good work of the Scientific Council and the WS-ESA on the 2020 review of the VME closures and the 2021 impact assessment, we hope that the scheduled UNGA bottom fishing review in May of 2020 provides some incentive for NAFO to adopt new VME measures this year.

As many of you know, this week States will meet at the United Nations General Assembly to address the critical issue of addressing climate change. The IPCC report on Oceans and the Cryosphere will be released on September 25th. In the past NAFO has failed to fully address climate change in its fisheries advice and related management decisions. This year, it is imperative that NAFO makes progress on incorporating climate change and considers climate vulnerability of NAFO regulated species into its decision making as well as makes progress on the ecosystem roadmap.

Additionally, we have provided our top recommendations for all in an easy to follow one-pager that we hope will be a guide to NAFO's success by the end of this week.

Additional measures for VMEs:

- NAFO Contracting Parties should formally agree research vessel trawls in all VME closed areas as has been advised by Scientific Council.

- NAFO should adopt FAO observer codes for VME species at this meeting, thus rendering the encounter protocol as a potentially effective mechanism to further protect known VME area. We also urge Contracting Parties to provide adequate resources to scientists for the VME work scheduled for 2020 and 2021.

For Fisheries Management:

- Follow precautionary science advice from the Scientific Council when setting catch levels for all NAFO regulated stocks, including 3M shrimp.

- Close the unregulated fishery for Splendid Alfonsino in Division 6G.

- Take concrete steps toward implementing the ecosystem roadmap in fisheries management decisions.

- Continue to implement the Action Plan in Management and Minimization of Bycatch and Discards and adopt in full the recommendations of the WG-BDS as per NAFO Com 19/05.

- Urge Contracting Parties to submit timely and complete haul-by-haul data in line with NAFO Resolution 18/27.

- Improve reporting on Greenland shark discards and increase efforts to minimize incidental catches and mortality of Greenland sharks, in line with NAFO 18/17.

With regards to activities within the NAFO area, but outside of NAFO's fisheries jurisdiction and noting the ongoing negotiations of a new treaty under UNCLOS to protect biodiversity on the high seas, we strongly urge NAFO to continue its collaboration and cooperation with other sectoral bodies and begin to identify mechanisms where biodiversity protection is achieved across these sectoral management organizations. In particular, we urge:

- Contracting Parties engage where possible in the Regional Assessment of exploratory oil and gas drilling on the Grand Banks / Flemish Cap area to ensure that the intent of a transboundary impact assessment is fulfilled.

We look forward to this week's discussions and deliberations and urge Contracting Parties continue to make progress, notably on the recommendations above.

Thank you,

Susanna Fuller and Katie Schleit - Oceans North
Matt Gianni - Deep Sea Conservation Coalition

Annex 14. Recommendations of the NAFO Commission Working Group to Address the Recommendations of the 2018 Performance Review Panel (WG-PR), 2019

(COM WP 19-22 **now** COM Doc. 19-32)

The NAFO Commission Working Group to Address the Recommendations of the 2018 Performance Review Panel (WG-PR) Meeting met 03 April 2019 (COM Doc. 19-03) and agreed on the following recommendations to forward to the NAFO Commission.

The WG-PR recommends that:

- **The Draft Action Plan for the Implementation of the Recommendations from the 2018 Report of the NAFO Performance Review Panel (COM PR-WP 19-01 Revised) be adopted by the Commission at the 2019 Annual Meeting.**
- **The NAFO Secretariat, in cooperation with the Chairs and co-Chairs of the NAFO Constituent Bodies and Working Groups, report on the progress of proposed actions identified in the Action Plan (COM PR-WP 19-01 Revised) at subsequent NAFO Annual Meetings beginning in 2020.**

Action Plan for the Implementation of the Recommendations from the 2018 Report of the NAFO Performance Review Panel

COM PR-WP 19-01 (Revised)

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
III. Conservation and Management								
	In relation to the Ecosystem Approach Framework to Fisheries Management, the NAFO Performance Review Panel:							
1. **III.2.a.1**	• Recommends the Commission, within a defined timeline, sets objectives and determines acceptable risks as outlined in the Ecosystem Approach Framework Roadmap to ensure its implementation. [pg. 16]	X (COM/ WG-EAFFM)	X (WG-EAFFM)			LT	The below recommendations from the Aug 2018 meeting of WG-EAFFM were adopted by COM and SC at the Sept. 2018 Annual Meeting, (COM-SC Doc. 18-06): • In relation to implementation of the EAF Roadmap, WG-EAFFM continues to make progress on the EAF Roadmap, acknowledging the general concepts of Ecosystem Production Potential (EPP) as a useful step towards implementation of EAFFM.	• WG-EAFFM will continue to make progress on the EAF Roadmap and consider its potential utility in informing management decisions by the COM. • WG-EAFFM will reconsider the terminology used in the Ecosystem Summary Sheets in order to provide clarity and avoid potential confusion with standard terminology in fisheries management. • SC will continue to refine its work under the EAF Roadmap, including testing the reliability of the ecosystem production

1 Short-term (ST) is designated as 1-2 years, medium-term (MT) as 2-3 years, and long-term (LT) as more than 3 years; with ST in general being considered high priority items.

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
							• The SC continue to refine its work under the ecosystem approach road map, including testing the reliability of the ecosystem production potential model and other related models, and to report on these results to the WG-EAFFM to further develop how it may apply to management decisions. • WG-EAFFM work to reconsider the terminology used in the Ecosystem Summary Sheets in order to avoid potential confusion with standard terminology in fisheries management, as well as considering their potential ability to inform management decisions. • The WG-EAFFM met in October 2018. The WG discussed the terminology in the ESS and next steps in the process, which would include the exploration of how the ESS and its information can be useful and, as appropriate, how to integrate the information into decision making processes, i.e. identification of where the ambiguity lies and potential to inform management decisions in the framework of the ESS	potential model and other related models, and report on these results to the WG-EAFFM to further develop how it may apply to management decisions • Note also the Proposed Action for Recommendation 2.

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
							(COM-SC EAFFM-WP 18-10).	
	In relation to the Precautionary Approach Framework, the NAFO Performance Review Panel:							
2. **III.2.b.1**	• Recommends NAFO assigns a high priority, including a timeline, to the review of its Precautionary Approach Framework and urges NAFO to act with precaution while awaiting the completion of this review, in particular through a commitment to follow scientific advice. [pg. 17]	X (WG-RBMS)	X (WG-RBMS)			ST	The COM's request for SC advice on management in 2020 and beyond of certain stocks in Subareas 2, 3, and 4 and other matters (COM Doc. 18-20), requests SC to continue progression on the review of the NAFO PA Framework. It also requests SC to develop a 3-5 year work-plan to identify resources necessary to address issues/gaps in current scientific resources. This work-plan will consider the priority of the review of the PAF.	• COM and SC will review the steps to be undertaken in completing the review of the Precautionary Approach (PA) Framework and develop a timeline for its completion. • CPs asked to provide resources to facilitate the SC review of the PA Framework.
3. **III.2.b.2**	• Recommends that NAFO includes 'data-poor' stocks in the Precautionary Approach Framework. [pg. 17]	X (WG-RBMS)	X (WG-RBMS)			MT/ST	WG-RBMS, at is April 2015 meeting (FC-SC Doc. 15-02) recommended that SC gives a high priority to development of reference points for all stocks which lack them. This recommendation was adopted by FC and SC at the Sept. 2015 Annual Meeting (FC-SC Doc. 15-04)	• SC will continue to give high-priority to the development of reference points for all stocks which lack them (MT). • WG-RBMS will consider the inclusion of data-poor stocks in its review of the PA Framework (ST).
	In relation to data collection and sharing, the NAFO Performance Review Panel:							

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
4. **III.3.1**	• Recommends NAFO implements the applicable outcomes of the catch estimates methodology study once completed, continue the work of CESAG and utilize Scientific observer data. [pg. 20]	X (CESAG)	X (CESAG)		X	ST	CESAG will meet in late February 2019 to review and discuss the draft final report from MRAG Americas on the Catch Estimates Methodology Study.	• CESAG will continue to provide oversight in the implementation of the catch estimation strategy and provide recommendations to the COM on ongoing refinement. • CESAG will consider the findings of the catch estimates methodology study and assess its applicability to the work of CESAG and other NAFO sub-bodies.
5. **III.3.2**	• Recommends NAFO agrees on a means to respond to instances of non-compliance by a Contracting Party with its reporting requirements, including logbook data. [pg. 20]	X (STACTIC)				ST	A formal follow-up procedure regarding haul-by-haul submissions was adopted at the Sept. 2018 Annual Meeting (COM Doc. 18-27).	• SEC, working with STACTIC, will identify the key reporting requirements and develop a report on applicable submission rates, with a view to examining submissions by CPs and identifying instances of non-compliance. • SEC will implement the formal follow-up procedure adopted by the COM in Sept. 2018 with respect to late submissions or non-submissions of haul-by-haul data by CPs.
6. **III.3.3**	• Recommends NAFO implements measures to ensure that fisheries research data, including fisheries survey data used by the Scientific Council, is complete and available for peer review in accordance with established scientific		X			ST		• SC will endeavor as part of its working procedures to have all of its scientific assessment input data held by the SEC.

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
	publication standards. [pg. 20]							
7. **III.3.4**	• Recommends NAFO assesses whether the discard data collected on the basis of daily electronic catch reporting is sufficient in order to support a future discards policy. [pg. 20]	X (WG-BDS/ STACTIC)				MT	The report of the May 2018 meeting of the WG-BDS (COM Doc. 18-04) includes agreement that the SEC will prepare a work-plan for the bycatch and discard analyses of the available data. The chair of WG-BDS presented the WG-BDS/SEC work-plan to COM at the Sept. 2018 Annual Meeting (COM BDS-WP 18-02) and indicated that a coordinated work plan is being developed with the STACTIC Chair.	• As per the Action Plan in the Management and Minimization of Bycatch and Discards (COM Doc. 17-26), SEC and WG-BDS will complete task 1.3, which pertains to data completeness and identification of gaps, by Sept. 2019. • To support task 1.3, the SEC will continue its analysis of the available bycatch and discard data, including haul by haul data (beginning from 2016), and identify trends, patterns, anomalies, and data gaps. The SEC will provide regular updates to the WG-BDS in the form of progress reports and seek clarification and direction from the WG-BDS as warranted. • WG-BDS will provide guidance and direction to the SEC in completing its work-plan, as required, and review/consider the work-plan results once completed, including appropriate actions to refer to STACTIC.
	In relation to the consistency of conservation and management decisions with scientific advice, the NAFO Performance Review Panel:							

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
8. **III.4.a.1**	• Recommends the Commission, as a matter of high priority, follows the Scientific Council advice and implements its multi-annual management strategies and plans in a consistent manner. [pg. 22]	X				ST		• COM will continue to take decisions that are consistent with SC advice and implement its multi-annual management strategies and plans in a consistent manner. • Note also the Proposed Action for Recommendation 10.
9. **III.4.a.2**	• Recommends NAFO adopts and implements a multi-annual schedule/planning for the delivery of advice, applicable over a cycle of at least five (5) years, including timelines for the various tasks required. Requests for advice outside the agreed planning should only be accepted in exceptional circumstances. [pg. 22]	X	X			ST	The COM's request for SC advice on management in 2020 and beyond of certain stocks in Subareas 2, 3, and 4 and other matters, requests SC to develop a 3-5 year work-plan to identify resources necessary to address issues/gaps in current scientific resources (COM Doc. 18-20).	• As per COM Doc. 18-20, SC will take the first steps to develop a 3-5 year work-plan, which reflects requests arising from the 2018 Annual Meeting, other multi-year stock assessments and other scientific inquiries already planned for the near future. The work plan should identify the resources necessary to successfully address these issues, gaps in current resources to meet those needs, and proposed prioritization by the SC of upcoming work based on those gaps. • COM will continue to implement its multi-annual schedule/planning for the request and delivery of advice and consider adjustments to the schedule if warranted.

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
10. **III.4.a.3**	• Recommends NAFO publishes annually a comparison between decisions adopted and the relevant scientific advice. [pg. 22]			X		ST		• SEC will publish a table on the NAFO website and/or in the NAFO Annual Report that compares the decisions adopted by the COM and the relevant scientific advice. • Note also the Proposed Action for Recommendation 8.
	In relation to the adoption of consistent/compatible management measures, the NAFO Performance Review Panel:							
11. **III.4.b.1**	• Recommends NAFO develops mechanisms for the application of Article VI.11 of the Convention. [pg. 23]	X				LT		• Coastal States to communicate to NAFO on management measures important to ensuring the long-term conservation and sustainable use of the fishery resources in the Regulatory Area, as determined by the coastal State to facilitate the application of Article VI.11 of the Convention.
	In relation to the allocation of fishing opportunities, the NAFO Performance Review Panel:							

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
12. **III.4.c.1**	• Recommends NAFO revisits the allocation of new fishing opportunities, should a change in circumstances justify it. [pg. 24]	X				LT		• CPs will continue to facilitate fishing opportunities using existing mechanisms within NAFO, such as chartering arrangements and quota transfers. • COM will consider the allocation of new fishing opportunities should NAFO establish TACs in the future for stocks not currently under its regulation (i.e. those stocks not currently included in Annexes I.A and I.B of the NAFO Conservation and Enforcement Measures).
	In relation to previously unregulated and exploratory fisheries, the NAFO Performance Review Panel:							
13. **III.4.d.1**	• Recommends NAFO establishes conservation and management measures for Splendid Alfonsino in Subarea 6, at the earliest opportunity. [pg. 24]	X	X			ST	At the Sept. 2018 Annual Meeting, no consensus was reached by the COM on a new management measure for Splendid Alfonsino in SA 6. In consideration of the scientific advice pertaining to this stock, a request was made to SC to provide the map and coordinates of the Kükenthal Peak in Division 6G, a part of the Corner Rise seamount chain, where alfonsino fishing occurs.	• SC will continue to provide scientific advice with respect to Splendid Alfonsino upon request by the COM. • COM notes the Proposed Action of Recommendation 8 and will continue to consider appropriate conservation and management measures for Splendid Alfonsino in Subarea 6.
	In relation to the conservation of marine biodiversity and the minimization of harmful fishing							

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
	impacts on marine ecosystems, the NAFO Performance Review Panel:							
14. **III.4.e.1**	• Recommends NAFO assesses means of minimizing or eliminating harmful impacts of fishing surveys on Vulnerable Marine Ecosystems within closed areas. [pg. 26]	X (WG-EAFFM)	X (WG-EAFFM)			ST	The following recommendation by WG-EAFFM was adopted by the COM in Sept. 2018 (COM Doc.18-16): • In relation to the evaluation of impact of scientific trawl surveys on VMEs in closed areas, Contracting Parties consider possible options for non-destructive regular monitoring within closed areas, bearing in mind cost implications and the utility of data collected for provision of advice.	• SC will continue its evaluation of the impact of scientific trawl surveys on VME in closed areas, and the effect of excluding surveys from these areas on stock assessments. • As per COM Doc. 18-16, CPs will consider possible options for non-destructive regular monitoring within closed areas, bearing in mind cost implications and the utility of data collected for provision of advice.
15. **III.4.e.2**	• Recommends NAFO establishes codes for Vulnerable Marine Ecosystem indicator species to facilitate reporting of encounters. [pg. 26]	X (WG-EAFFM/ STACTIC)	X (WG-EAFFM)	X		ST/MT	The following recommendations were adopted by COM and SC in Sept. 2018 (COM-SC Doc. 18-06): • In relation to FAO three letter codes for VME indicator species, the existing taxa list in Annex I.E. Part VI of the NCEM be updated with the FAO ASFIS codes as listed in Annex 4 of this report. • The Scientific Council review the proposed revisions to Annex I.E. Part VI as reflected in COM-SC EAFFM-WP 18-01, and to	As per COM-SC Doc. 18-06: • In relation to FAO three letter codes for VME indicator species, the existing taxa list in Annex I.E. Part VI of the NCEM will be updated with the FAO ASFIS codes as listed in COM-SC Doc. 18-03 (ST). • SC will review the proposed revisions to Annex I.E. Part VI as reflected in COM-SC EAFFM-WP 18-01 and compare the consistency of the list of taxa in that Annex to the VME species guide with a view to

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
							• compare the consistency of the list of taxa in that Annex to the VME species guide with a view to recommend updates, as necessary. • The Secretariat to work with the FAO to develop new ASFIS codes, as necessary, for those taxa listed in Annex 1.E Part VI.	recommend updates, as necessary (ST). • SEC will work with FAO to develop new ASFIS codes, as necessary, for those taxa listed in Annex 1.E Part VI (MT).
16. **III.4.e.3**	• Recommends NAFO reviews data available from observers reports and other possible sources that would help identify why encounters with Vulnerable Marine Ecosystems have not been reported to date. [pg. 26]	X (STACTIC)				ST		• STACTIC will further examine and assess fishing activities of vessels in and around VMEs and whether these activities are accurately reported. • Proposed actions for PRP recommendation #15 could potentially facilitate the catch reporting of VME indicator species.
	In relation to minimizing pollution, waste, discards, lost and abandoned gear and impacts on non-target species, the NAFO Performance Review Panel:							
17. **III.4.f.1**	• Recommends NAFO ensures the implementation of the Action Plan on discards by the stipulated target date in 2021 and establishes measures in the shorter-term to minimize or eradicate high-grading practices. [pg. 27]	X (WG-BDS/ STACTIC)	X	X		ST/MT	The following WG-BDS recommendations were adopted by COM in Sept. 2018 (COM Doc. 18-22): • The Commission and Scientific Council, and their subsidiary bodies, as well as the Secretariat, move forward with full implementation of the	As per COM Doc. 18-22: • COM and SC, and their subsidiary bodies, as well as the SEC, will move forward with the full implementation of the Action Plan (COM Doc. 17-26) (MT). • CPs are encouraged to explore with respective industry representatives the reasons

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
							Action Plan in the Management and Minimization of Bycatch and Discards (COM Doc. 17-26). • Contracting Parties be encouraged to explore with their respective industry representatives the reasons for discards and bycatch and report back to the Working Group at its next meeting. To the extent possible, this information should seek to identify specific times, areas, fisheries and/or other factors. • STACTIC review existing NAFO observer and haul-by-haul reporting requirements to consider enhancements that would provide specific information related to the rationale for discards.	for discards and bycatch and report back to the WG-BDS at its next meeting. To the extent possible, this information should seek to identify specific times, areas, fisheries and/or other factors (ST). • STACTIC will review existing NAFO observer and haul-by-haul reporting requirements to consider enhancements that would provide specific information related to the rationale for discards. (ST)
18. **III.4.f.2**	• Urges NAFO gives effect to Article III of the amended Convention in respect of minimizing other harmful impacts such as pollution and waste originating from fishing vessels, catch of species not subject to a directed fishery and impacts on associated or dependent species, in particular endangered	X (STACTIC/ WG-BDS)				ST/MT		• STACTIC will continue discussions and deliberations on its work regarding garbage disposal onboard fishing vessels (ST). • COM, STACTIC, and WG-BDS will consider the feasibility of measures to minimize bycatch and discards as part of the Action Plan in the Management and

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
	species. [pg. 27]							Minimization of Bycatch and Discards (COM Doc. 17-26) (MT).
	In relation to reporting requirements, the NAFO Performance Review Panel:							
19. **III.6.1**	• Recommends NAFO develop a user-friendly data manual. [pg. 29]	X (STACTIC)		X		ST		• SEC, working work with STACTIC, will compile an inventory of data reporting requirements.
IV. Compliance and Enforcement								
	In relation to flag State duties, the NAFO Performance Review Panel:							
20. **IV.1.1**	• Recommends NAFO calls on all Contracting Parties to carry out self-assessments of flag State performance in accordance with the criteria set out in the FAO Voluntary Guidelines for Flag State Performance. Reports of the self-assessments should be submitted to STACTIC in order for it to present a summary report to the Commission. [pg. 30]	X (STACTIC)			X	ST		• STACTIC will review criteria set out in FAO Voluntary Guidelines for Flag State Performance and provide input on this matter to COM.
21. **IV.1.2**	• Recommends NAFO amends the NAFO Conservation and Enforcement Measures in order to clarify, rectify and harmonize references to the duties of the Contracting Parties as flag States. [pg. 31]	X (STACTIC)				ST		• STACTIC will discuss how the NAFO Conservation and Enforcement Measures could be amended to clarify, rectify, and harmonize references to the duties of the CPs as Flag States.

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
	In relation to Monitoring Control and Surveillance, the NAFO Performance Review Panel:							
22. **IV.3.1**	• Recommends NAFO evaluates and adopts appropriate measures to deter repeat serious non-compliance. [pg. 32]	X (STACTIC)				ST		• STACTIC will continue discussions and deliberations regarding measures to deter repeat non-compliance of serious infringements that could be considered for adoption by the COM.
23. **IV.3.2**	• Recommends NAFO urges Contracting Parties to become parties to the International Labour Organization (ILO) Work in Fishing Convention No. 188. [pg. 32]	X			X	ST		• NAFO will encourage CPs to become parties to the International Labour Organization (ILO) Work in Fishing Convention No. 188.
	In relation to follow-up on infringements, the NAFO Performance Review Panel:							
24. **IV.3.3**	• Recommends NAFO urges Contracting Parties to increase their efforts in ensuring timely follow-up to infringements. [pg. 33]	X (STACTIC)			X	ST		• COM will encourage CPs to ensure a timely and effective follow-up on infringements, and to report regularly on action taken as foreseen by Article 37 of NCEM. • In cases where action is pending, CPs will provide regular and substantive update reports to the extent possible. • STACTIC will continue to report on Dispositions of Apparent Infringements reported by Contracting

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
								Parties in its Annual Compliance Review.
V. Governance								
	In relation to transparency, the NAFO Performance Review Panel:							
25. **V.3.1**	• Recommends NAFO reorganizes its website library based on the topics covered. [pg. 36]			X		ST		• SEC will continue its work to reorganize the NAFO website library based on the topics covered.
26. **V.3.2**	• Recommends NAFO makes all working documents publicly available, unless otherwise requested by a Contracting Party or subject to confidentiality rules. [pg. 36]	X	X	X		ST	As noted in correspondence NAFO/19-036, the NAFO public website will now include GC documents and STACFAD working papers, with the exception of documents dealing with matters deemed confidential.	• SEC will make COM documents and STACFAD working papers publicly available on the NAFO website, with the exception of documents dealing with matters deemed confidential.
VI. Science								
	In relation to science, the NAFO Performance Review Panel:							
27. **VI.2.1**	• Recommends NAFO decides the level of acceptable risk regarding the outcomes of conservation and management measures, following a dialogue between Commission and SC, to provide the latter with guidance in its advisory work. [pg. 44]	X (WG-RBMS)	X (WG-RBMS)			ST	The COM's request for SC advice on management in 2020 and beyond of certain stocks in Subareas 2, 3, and 4 and other matters, requests that in keeping with the NAFO PA Framework, the advice should be provided as a range of management options and a risk analysis for each option (rather	• In keeping with NAFO's PA Framework, SC should (where possible) provide advice as a range of management options and a risk analysis for each option, allowing managers to decide on appropriate risk levels on a case-by-case basis. • COM will continue to provide SC guidance and clarity

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
							than a single TAC recommendation) and the actual risk level should be decided upon by managers (COM-Doc 18-20).	regarding the range of risk levels to be evaluated with respect to the outcomes of conservation and management measures.
28. **VI.2.2**	• Recommends NAFO develops and publishes an advisory decision-making framework to ensure advice is linked explicitly to policy objectives, is consistent and its basis is transparent. [pg. 44]	X	X			ST		• COM will continue to include the SC advice on fish stocks and the record of COM decisions in the Annual Meeting reports, and additionally include the associated rationale for the decisions.
29. **VI.2.3**	• Recommends NAFO, as a matter of high priority, develops a plan and implements steps to match the scientific resources to the workload. [pg. 44]	X	X		X	ST	The COM's request for SC advice on management in 2020 and beyond of certain stocks in Subareas 2, 3, and 4 and other matters, requests SC to develop a 3-5 year work-plan to identify resources necessary to address issues/gaps in current scientific resources (COM Doc 18-20).	• As per COM Doc. 18-20, SC will take the first steps to develop a 3-5 year work-plan, which reflects requests arising from the 2018 Annual Meeting, other multi-year stock assessments and other scientific inquiries already planned for the near future. The work plan should identify the resources necessary to successfully address these issues, gaps in current resources to meet those needs, and proposed prioritization by the SC of upcoming work based on those gaps. • COM will review the SC's work-plan once completed and use as a basis for informing the establishment of work priorities, reflective of

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
								the resources available to complete the work.
30. **VI.2.4**	• Recommends NAFO implements a peer review process for the science underlying the SC advice and applies it consistently to all SC science used in advice. [pg. 44]		X			ST		• SC will continue to enhance the external peer-review of the methods and basis of SC advice to ensure consistency with best scientific practices.
31. **VI.2.5**	• Recommends the Secretariat conducts a survey of usage and identify further improvements to the public outreach documents relating to the state of NAFO stocks and NAFO science available on the NAFO website. [pg. 44]			X		ST		• SEC will conduct a survey of usage and identify further improvements to the public outreach documents relating to the state of NAFO stocks and NAFO science available on the NAFO website.
VII. International Cooperation								
	In relation to cooperation with other international organizations, the NAFO Performance Review Panel:							
32. **VII.2.1**	• Recommends NAFO strengthens and enhances cooperation with RFMOs and other relevant international organizations. [pg. 46]	X	X	X		MT/ST		• COM should consider appropriate mechanisms to strengthen and enhance cooperation with RFMOs and other relevant international organizations (MT). • NAFO will maintain existing relationships and cooperation with RFMOs (ST). • SEC will maintain existing dialogue with RFMOs and

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
								other relevant international organizations (ST).
33. **VI.2.2**	• Recommends NAFO assesses how it can contribute its expertise to international developments, in particular the completion of the Aichi Targets and the Intergovernmental Conference on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction. [pg. 46]	X	X	X	X	ST/MT		• SEC will continue to participate in relevant forums where feasible and contribute NAFO's expertise to international developments and will report to the COM on such participation (ST). • CPs are encouraged to participate in relevant forums to share their expertise with respect to international developments (MT).
	In relation to special requirements of developing countries, the NAFO Performance Review Panel:							
34. **VI.3.1**	• Recommends NAFO participates in capacity building initiatives for developing countries. [pg. 46]	X		X		ST		• NAFO will continue to take part in capacity building initiatives inter alia, the sharing of NAFO knowledge and experience in fisheries management, science and governance.
VIII. Finance and Administration								
	In relation to finance and administration, the NAFO Performance Review Panel:							
35. **VII.1**	• Recommends NAFO develops an annual operational plan for the NAFO Secretariat outlining key objectives and	X (STACFAD)		X		ST		• SEC will develop a draft operational plan to be presented/discussed in STACFAD. The draft

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY[1]	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
	specifying resources required to meet these objectives. [pg. 48]							operational plan should be shared with CPs and STACFAD in advance of the Annual Meeting.
36. **VII.2**	• Recommends NAFO initiates a process to design a new visual identity for NAFO that reflects the role and responsibilities of the Organization. [pg. 48]	X (STACFAD)		X		ST		• COM will request SEC to present options for a process to design a new visual identity for NAFO, including associated costs, and present these options to the COM/STACFAD for consideration.

In addition, considering that the cumulative impact of various human activities beyond the mandate of NAFO on the marine environment is mentioned by the 2018 Performance Review Panel among the significant external challenges for the long-term conservation and sustainable use of the fisheries resources**,** the **Commission recommends** that:

NUMBER/ CHAPTER REF.	RECOMMENDATION	LEAD NAFO BODY				PRIORITY	CURRENT STATUS	PROPOSED ACTION
		COM	SC	SEC	CPs			
	• Contracting Parties be encouraged to share any relevant research they have completed with the Scientific Council; • Scientific Council monitor and provide regular updates on relevant research related to the potential impact of activities other than fishing in the Convention Area, such as oil exploration, shipping and recreational activities, and how they may impact the stocks and fisheries as well as biodiversity in the Regulatory Area.	X (WG-EAFFM)	X (WG-EAFFM)		X	ST	•	• Contracting Parties encouraged to share relevant research they have completed with the Scientific Council. • SC will monitor and provide regular updates on relevant research related to the potential impact of activities other than fishing in the Convention Area, such as oil exploration, shipping and recreational activities, and how they may impact the stocks and fisheries as well as biodiversity in the Regulatory Area.

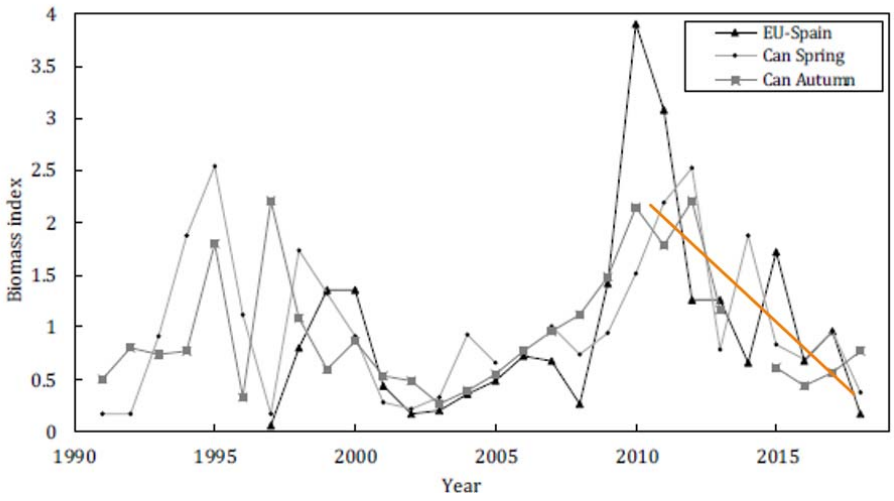
Annex 15. Compilation of SC Response to Feedback Questions Regarding its Scientific Advice

[COM WP 19-38]

From Norway [COM WP 19-24]

Regarding Redfish in 3O

We take note of the SC statement that the average catch level of 12 000 tonnes appear to have been sustainable, but that the SC at the same time is unable to advise on a TAC for the stock for 2020-2022. We would further refer to the STACFIS section on page 188 in the SC report (SCS 19-20) where the three stock biomass index series for redfish in Div. 3O are put together in a single figure (Figure 15.4). Even though there are large year-to-year variations in the indices, there seems to be an overall declining trend since 2010 illustrated by orange line imposed on the graph below:



One might infer that the stock has declined by a factor of about 5 (from a value of around 2 to around 0.4 – reading from the graph). Does the SC consider that this decline should be a reason for concern, e.g. indicate that the recent catch levels maybe are not sustainable?

Scientific Council responded: [COM WP 19-33]

SC is unable to determine whether the apparent decline (noting the large uncertainty in the survey results) is due to fishing mortality, natural mortality or emigration. SC reiterates its advice that there is insufficient information on which to base predictions of annual yield potential for this resource. To mitigate against further declines the commission may consider implementing measures that do not allow catches to increase.

Recommendation for 2020-22

There is insufficient information on which to base predictions of annual yield potential for this resource. Stock dynamics and recruitment patterns are also poorly understood. Catches have averaged about 12 000 t since the 1960s and over the long term, catches at this level appear to have been sustainable. Scientific Council is unable to advise on an appropriate TAC for 2020, 2021 and 2022.

From the European Union [COM WP 19-25]

1. Redfish 3M

What would be the probability of having in 2022 a biomass (SSB) level higher than the average level during the period 2002 - 2006 (14,062 t), which was estimated to produce the highest recruitments (age 4) in the time series (1989 - 2018) in the F_{max} scenario, which was one of the models provided.

2. Non-Sponge and Non-corals VMEs

The EU would like to ask the Scientific Council on the decision of including two additional taxa, bryozoans and sea squirts, in the reassessment of the VME closed areas at this time. The bryozoan and sea squirts in question occupy relatively shallow water habitats (~50m) on top of the Grand Bank. The FAO guidelines, that define VMEs, were primarily developed to protect deep sea sensitive species and habitats from the deleterious effects of bottom fishing activities in the high seas. As such, classifying relatively shallow water bryozoan and seasquirt assemblages as VME, or VME indicator species, implies they have the same environmental and biological characteristics as deep-sea VME, which is potentially confusing. Given the important differences known to exist between deep-sea and shallow-sea (shelf-based) ecosystem dynamics, it is important the assessment approaches and terms applied are not conflated between the two systems, including the habitats and species which they support.

3. Humans Activities other than fishing

In July 2019 the EU was informed about an oil spill incident that happened in the Canadian EEZ, which also affected international waters. This information also included an environmental response carried out by the competent Canadian authorities. However, following this initial information, to our knowledge Canada did not provide further update concerning the extent of the oil spill, the mitigation measures put in place and the impact in the ecosystem.

The EU would like to ask the SC about any additional information the SC might have received and whether could provide an assessment about the impact on the ecosystem and notably on the fish stocks.

Scientific Council responded: [COM WP 19-34]

1. Redfish 3M

There is a high probability (>90%) that, by the start of 2022, SSB should be at or above 40 713 tonnes, a level 2.9x higher than the average 2002-2006 SSB level of 14 063 tonnes associated with the highest recruitments so far recorded. However one should take into account that there is no evidence of a stock recruitment relationship for this stock (over a similar range of SSB there was much poorer recruitment in 1993 and 1994). Concern should be raised regarding the continuous decline of the exploitable stock 2014 onwards combined with a very low level of recruitment at age 4 observed since then.

2. Non-Sponge and Non-corals VMEs

The decision to include non-coral and non-sponge VMEs was made in 2012 (SCS-Doc. 12-19, Pages 36-38) and has been incorporated into the VME identification guides as well as the list of VME indicators adopted by the Fisheries Commission for inclusion in the NCEM (FC-Doc, 12-31). The VME indicators on the list were all screened against the FAO guidelines. Scientific Council has already been asked to review the list. Following acceptance by NAFO, Scientific Council was asked to develop encounter protocols for bryozoans and ascidians. These taxa were included in work plans presented by the SC in 2018. Also, the FAO and ABNJ make no distinction of VMEs based on depth. There is no precedent in any RFMO of excluding indicators because they occur in shallower water. Note that all of the VME indicators have been identified in shallow areas (e.g. this also applies to Lophelia reefs which live in Oslo fjord).

Because many of the species are widespread SC has developed methods to identify significant concentrations. Those methods have been applied to the species groups in question and Scientific

Council has located some key areas of high densities. The work continues and will be assessed using the same criteria that were used to determine the location of significant areas of coral and sponge VME, and whether they are at risk. It is essential if NAFO is to provide a thorough assessment of the risk to VMEs that are appropriate to meet UNGA resolutions (61/105, 64/72, 66/68).

NAFO may wish to consider indicator lists from other RFMOs and/or NAFO Coastal States, to ensure that NAFO's list of VME indicators is comprehensive.

If there are new objective, scientifically sound data available that bryozoans and ascidians are not VME indicators, SC will review that evidence at a future meeting.

3. Humans Activities other than fishing

The SC has not received official documentation about this environmental accident. The available information about oil spills is supplied by the website of the C-NLOPB informing about the occurrence of accidental oil discharges, but do not contain scientific information on impacts on the water quality, biota or in the ecosystems. The dimension of the spill is not documented and their spread in the marine environment unknown. Furthermore, there is no information on mitigation measures and/or remediation actions taken after the spill.

SC reiterates its response to Commission request #15.

From Denmark (in respect of the Faroe Islands and Greenland) [COM WP 19-30]

Denmark (in respect of the Faroe Islands and Greenland) has the following questions regarding 3M cod for clarification by the Scientific Council, to the extent possible, during the Annual Meeting.

- How is recruitment linked to the size of the stock? Is there a clear relationship between the size of the Spawning Stock Biomass and the level of recruitment?
- The advice last year indicated that ¾Flim would provide a yield of 12.359 tonnes for 2020. The advice this year suggests a yield of 8.531 in 2020 if ¾Flim is applied. What has changed since 2018 to result in such a different figure?
- Two technical measures apply to cod in the RA: 130 mm minimum mesh size and 41 cm minimum length. To what extent has the Scientific Council considered other measures that could help conserve the SSB of 3M cod, such as area and time-based measures and the use of sorting grids in trawls.

Scientific Council responded: [COM WP 19-35]

- *How is recruitment linked to the size of the stock? Is there a clear relationship between the size of the Spawning Stock Biomass and the level of recruitment?*

SC responded:

There is no clear relationship between the size of the spawning stock and recruitment. During the 3M cod MSE process, a number of possible stock recruit relationships were considered, including a segmented regression with a break point at B_{lim}, a Ricker curve either fitted to the entire time series or excluding years with very low recruitment values, and geometric means of recruitment within a number of separate SSB bins (with break points at fixed values of SSB, specified quantiles, or corresponding to

SSB in specific years). For all the fitted relationships, the fits were poor with particularly large positive residuals in the mid-range of SSB:

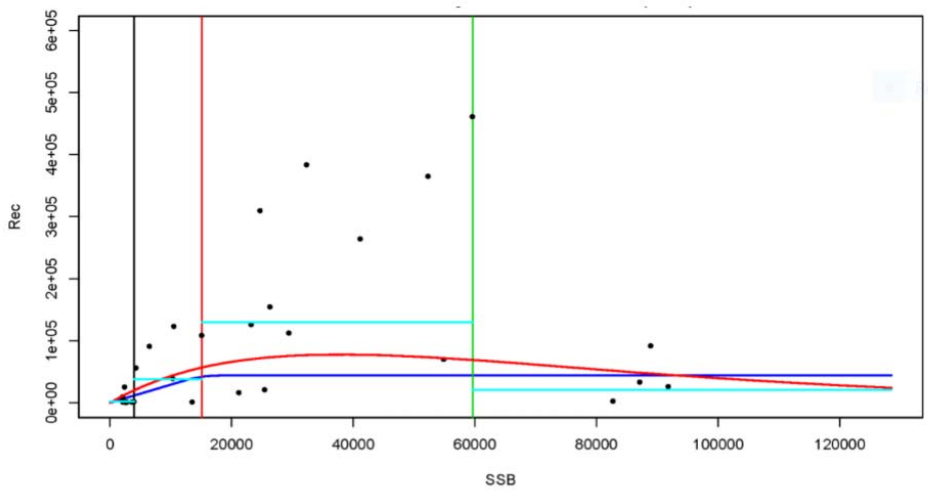


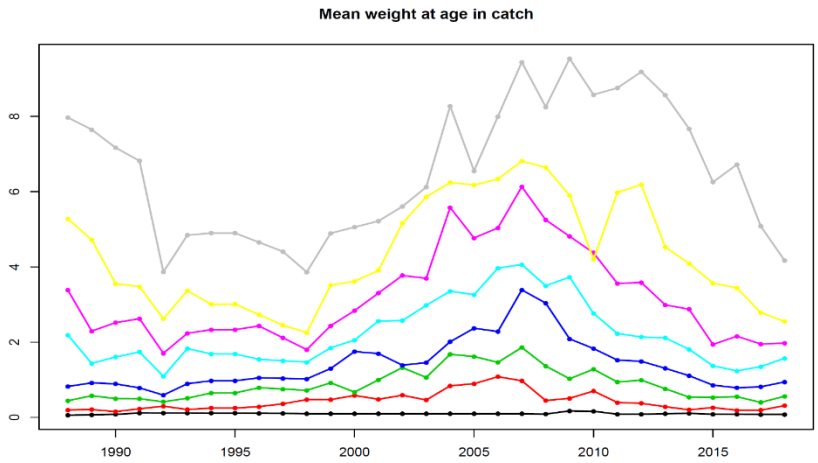
Figure 5. Historical SSB/recruit pairs (posterior medians) for the base case OM, with the SSB divided into bins with cut-offs at SSB_{1997} (black line), SSB_{2007} (red) and SSB_{2010} (green). A segmented regression with a break point at SSB_{2007} and a Ricker curve fitted to years with SSB > SSB_{1997} are shown by the dark blue and red fitted lines respectively. The sky blue lines represent the geometric mean of historical recruitment within each SSB bin.

Source: NAFO, 2019. NAFO Scientific Council Flemish Cap (NAFO Div. 3M) Cod Stock Management Strategy Evaluation (MSE). NAFO SCS Doc. 19/04, Serial No N6911.

- *The advice last year indicated that ¾Flim would provide a yield of 12.359 tonnes for 2020. The advice this year suggests a yield of 8.531 in 2020 if ¾Flim is applied. What has changed since 2018 to result in such a different figure?*

SC responded:

The rapid change of the biological parameters of the 3M cod makes very difficult to predict the future state of the stock. During recent years the mean weight at age, both in stock and in catch, have been declining, as we can see in the next Figure:



During the 2018 SC meeting, to get the projected catch for the beginning of 2020, the 2017 mean weight-at-age was taken, whereas during the 2019 SC meeting the 2018 mean weight-at-age was used. So, for example, for the 8+ age, that in the last year was the most abundant in the stock, for the 2018 projection a weight of 5.1 kg was used, while for the 2019 projection that weight was 4.2 kg. This means that even with the same numbers-at-age, the biomass from one year to the other has highly decreased, and so the possible yield, even with the same level of F.

Other factors affect the projected yield from one year for the next, including estimated selectivity.

Furthermore, in the 2018 assessment updated ageing data were not available and therefore 2017 results were applied. In the 2019 assessment these data were available and resulted in changes to the age composition of the projected yield in 2020.

- *Two technical measures apply to cod in the RA: 130 mm minimum mesh size and 41 cm minimum length. To what extent has the Scientific Council considered other measures that could help conserve the SSB of 3M cod, such as area and time-based measures and the use of sorting grids in trawls.*

In 2015 the Commission requested the SC to analyze and provide advice on management measures that could improve selectivity in the Div. 3M cod and Div. 3M redfish fisheries in the Flemish Cap in order to reduce possible by catches and discards.

The Scientific Council responded: The implementation of sorting-grids in the Div. 3M cod fishery gear will reduce catch of small and immature individuals of cod. These devices would to a large extent prevent catches of individuals less than MLS (41 cm) and have the advantage also of reducing redfish by-catches and thereby reduce discards. It is estimated that by introducing sorting grids, the actual Fmsy value and the equilibrium yield (catches) would increase but it should have a small impact in the equilibrium SSB. To quantify these improvements more precisely, selectivity experiments with the modified gears needs to be performed in the Flemish Cap area.

The SC also noted that other measures to avoid excessive catch of juveniles could be considered, e.g. the closure of the areas at less than 400 meters depth where these fish are more abundant. The effect in the exploitation pattern of this technical measure should be similar to the implementation of the 135 mm codend with sorting grids. However, this measure could increase the by-catch of redfish as this species is more abundant in depths more than 400 meters. Another problem of implementing these closures would be the effort concentration in small areas.

Source: NAFO, 2015. Report of the Scientific Council Meeting. NAFO SCS Doc. 15/12, Serial No N6469.

From European Union [COM WP 19-31]

Regarding Alfonsinos

- Scientific advice recommends closing this fishery, based on a sharp decline on catches and CPUE in recent years. Although we understand the sensitivity of these indicators, we would like to understand the process based on which scientific advice is produced in a context of limited data, such in this case, and also, if in previous experiences other fisheries were also closed using CPUE as the only indicator.

- According to SC report, the EU also supports some sort of scientific data collection to be carried out concerning the stock of Alfonsinos, through trawl acoustic surveys, or any other relevant scientific mechanism that SC may consider appropriate, in order to make a future

assessment of the stock. In this regard, the EU requests from the SC what type of scientific information would be required in order to carry out such assessment of this stock.

Scientific Council responded: [COM WP 19-36]

- *Scientific advice recommends closing this fishery, based on a sharp decline on catches and CPUE in recent years. Although we understand the sensitivity of these indicators, we would like to understand the process based on which scientific advice is produced in a context of limited data, such in this case, and also, if in previous experiences other fisheries were also closed using CPUE as the only indicator.*

SC responded:

No analytical or survey-based assessment were possible. The only data available at present are the catch and effort time series. Despite the difficulties of interpreting the CPUE as an indicator of stock status and knowing that this species is easily overexploited and can only sustain low rates of exploitation, the sharp decline in CPUE to the lowest observed (92 % lower than in 2017) and catches in the last year indicate an apparent overfishing situation and that the stock may be depleted.

The alfonsino 6G stock is the only stock managed by NAFO that has only catch and effort data and no fisheries independent data. SC is aware of at least one alfonsino fishery elsewhere that has been closed using CPUE information (FAO, 2016, Wiff *et al*, 2012).

- *According to SC report, the EU also supports some sort of scientific data collection to be carried out concerning the stock of Alfonsinos, through trawl acoustic surveys, or any other relevant scientific mechanism that SC may consider appropriate, in order to make a future assessment of the stock. In this regard, the EU requests from the SC what type of scientific information would be required in order to carry out such assessment of this stock.*

SC responded:

There are fishery independent methods that could be explored for alfonsino, eg. acoustic or longline surveys. Protocols for survey methods should be reviewed by SC.

FAO, 2016. *Global Review of Alfonsino (Beryx Spp.), Their Fisheries, Biology and Management*. Food and Agriculture Organization of The United Nations. Rome, 2016.

Wiff, Rodrigo & Quiroz, Juan Carlos & Flores, Andrés & Gálvez, Patricio. (2012). An overview of the alfonsino (Beryx splendens) fishery in Chile. FAO circular de pesca.

Annex 16. Recommendations of the NAFO Working Group on Improving Efficiency of NAFO Working Group Process (E-WG), 2019

[COM-SC WP 19-07 **now** COM-SC Doc. 19-06]

The NAFO Working Group on Improving Efficiency of NAFO Working Group Process (E-WG) met via WebEx on 05 February 2019 (COM-SC WP 19-03).

The Working Group on Improving Efficiency of NAFO Working Group Process, via e-mail correspondence, agreed on the following recommendations for consideration and adoption at the 41st Annual Meeting of NAFO, 23–27 September 2019.

The E-WG recommends that:

- **For the 2019-2020 NAFO year, the following two-week periods, be considered for NAFO intersessional meetings:**
    - **24 February – 06 March 2020;**
    - **27 April – 08 May 2020; and**
    - **10 August – 21 August 2020.**
- **The Working Group on Improving Efficiency of NAFO Working Group Process continue under the same Terms of Reference.**

Annex 17. Recommendations of the NAFO Joint Fisheries Commission-Scientific Council Working Group on Risk-Based Management Strategies (WG-RBMS), April and September 2019

[COM-SC WP 19-08 **now** COM-SC Doc. 19-07]

The NAFO Joint Fisheries Commission-Scientific Council Working Group on Risk-Based Management Strategies (WG-RBMS) met on:

10-12 April 2019 (COM-SC Doc. 19-01); and

There were no recommendations from this meeting.

21 September (COM-SC Doc. 19-04).

On the 3M Cod MSE,

- **WG-RBMS concludes that work in WG-RBMS on the 3M cod MSE should be suspended for the time being.**

  This conclusion was reached based on the strong variability observed in the stock dynamics and biological parameters in the past, that create substantial difficulties for developing realistic future simulations and successful development of an HCR. This situation, coupled with the low recruitment observed in recent years that will likely result in a strong decline of the stock biomass even without a fishery, implies that developing an HCR is not considered feasible at this stage. Reopening this issue in WG-RBMS should occur when SC determines that conditions are such that there is a reasonable probability of success.

On future MSE processes,

- **Noting that significant challenges were encountered in meeting the timetables set for the MSE process for both 3M cod and 2+3LMNO Greenland halibut, and that this resulted in insufficient time being available for adequate review and documentation of the results, WG-RBMS recommends that timeframes set for future MSE processes should be realistic, taking full account of the very large amount of work required. Sufficient time and human capacity should be allowed for the development of the technical work, review, communication with relevant actors and reporting of results.**

On 3LN Redfish,

- **WG-RBMS recommends to the Commission that Scientific Council be asked in 2020 to do an update assessment and five-year projections (2021 to 2025) to evaluate the impact of annual removals at 18 100 tonnes against the following performance statistics (from NCEM annex I.H):**

  (a) Very low (< 10%) probability of biomass declining below B_{lim}.

  (b) Low (< 30%) probability of fishing mortality >F_{msy}

  (c) Less than 50% probability of declining below 80% B_{msy} on or before 2026

  if this level of catch does not result in fulfilling these performance statistics, SC should advise the level of catch that would.

Annex 18. Recommendations of the NAFO Joint Fisheries Commission-Scientific Council Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM), July 2019

[COM-SC WP 19-09 **now** COM-SC Doc. 19-08]

The NAFO Joint Fisheries Commission-Scientific Council Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM) met in 16–18 July 2019 (COM-SC Doc. 19-03) and agreed on the following recommendations from the WG-EAFFM to the NAFO Commission and Scientific Council.

The WG-EAFFM recommends that:

1. **In relation to coordination with the International Seabed Authority (ISA), the Secretariat move forward with the informal coordination mechanisms proposed by the ISA. The Commission, through the WG-EAFFM, consider the development of communication channels between ISA and NAFO, including the possible development of a Memorandum of Understanding (MOU) or other appropriate tools, while avoiding any overly cumbersome or costly processes.**

2. **In relation to scientific surveys in VME closed areas, Contracting Parties are encouraged to continue to avoid closed areas in their scientific trawl surveys, as far as practicable. Further, that SC finalize its work to determine the effect of excluding surveys from these areas on stock assessments as soon as practicable, in accordance with Scientific Council's workplan, and contracting parties should be encouraged to ensure the correct scientific expertise supports this SC process.**

3. **In relation to the 2020 re-assessment of VME closures and the 2021 re-assessments of the impacts of NAFO bottom fishing, Contracting Parties support the necessary participation of relevant experts to ensure these processes are completed in a timely fashion, bearing in mind resource needs and constraints.**

4. **In relation to data required under CEM Article 28, reported in accordance with Annex II.N Fishing Logbook Information by Haul, STACTIC clarify how start and end time are defined for bottom contact gear**

5. **The CEM Annex I.E. Part VI is amended to reflect the correct taxa names and FAO alpha codes.**

6. **Commission request that the Scientific Council present the Ecosystem Summary Sheet for 3LNO to the Commission at the 2020 Annual Meeting, with a view of informing decision-making processes.**

7. **Commission develop ecosystem level objectives to inform the Scientific Council's development of the EAF Roadmap, including through a possible intersessional workshop.**

8. **Commission request that the Scientific Council continues its work to develop the EAF Roadmap.**

9. **Contracting Parties strongly support participation by the necessary scientific expertise in these processes.**

Updated List of VME Indicator Species for inclusion in Annex I.E of the NCEM, in relation to WG-EAFFM Recommendation 5

Table 1. Updated List of VME Indicator Species for inclusion in Annex I.E of the NAFO CEM. Also included are the FAO ASFIS 3-alpha codes. Codes for the genus level are indicated in parenthesis. Blank entries indicate that no code exists for that taxon. Those taxa marked with an asterisk were documented exclusively from the NAFO seamount closures.

Common Name and FAO ASFIS 3- ALPHA CODE	Taxon	Family	FAO ASFIS 3-ALPHA CODE
Large-Sized Sponges (PFR - Porifera)	*Asconema foliatum*	Rossellidae	ZBA
	Aphrocallistes beatrix	Aphrocallistidae	
	Asbestopluma (Asbestopluma) ruetzleri	Cladorhizidae	ZAB (Asbestopluma)
	Axinella sp.	Axinellidae	
	Chondrocladia grandis	Cladorhizidae	ZHD (Chondrocladia)
	Cladorhiza abyssicola	Cladorhizidae	ZCH (Cladorhiza)
	Cladorhiza kenchingtonae	Cladorhizidae	ZCH (Cladorhiza)
	Craniella spp.	Tetillidae	ZCS (Craniella spp.)
	Dictyaulus romani	Euplectellidae	ZDY (Dictyaulus)
	Esperiopsis villosa	Esperiopsidae	ZEW
	Forcepia spp.	Coelosphaeridae	ZFR
	Geodia barrette	Geodiidae	
	Geodia macandrewii	Geodiidae	
	Geodia parva	Geodiidae	
	Geodia phlegraei	Geodiidae	
	Haliclona sp.	Chalinidae	ZHL
	Iophon piceum	Acarnidae	WJP
	Isodictya palmata	Isodictyidae	
	Lissodendoryx (Lissodendoryx) complicata	Coelosphaeridae	ZDD
	Mycale (Mycale) lingua	Mycalidae	
	Mycale (Mycale) loveni	Mycalidae	
	Phakellia sp.	Axinellidae	
	Polymastia spp.	Polymastiidae	ZPY
	Stelletta normani	Ancorinidae	WSX (Stelletta)
	Stelletta tuberosa	Ancorinidae	WSX (Stelletta)
	Stryphnus fortis	Ancorinidae	WPH
	Thenea muricata	Pachastrellidae	ZTH (Thenea)
	Thenea valdiviae	Pachastrellidae	ZTH (Thenea)
	Weberella bursa	Polymastiidae	

Stony Corals (CSS - Scleractinia)	*Enallopsammia rostrata**	Dendrophylliidae	FEY
	*Lophelia pertusa**	Caryophylliidae	LWS
	*Madrepora oculata**	Oculinidae	MVI
	*Solenosmilia variabilis**	Caryophylliidae	RZT
Small Gorgonians (GGW)	*Acanella arbuscula*	Isididae	KQL (Acanella)
	Anthothela grandiflora	Anthothelidae	WAG
	Chrysogorgia sp.	Chrysogorgiidae	FHX
	*Metallogorgia melanotrichos**	Chrysogorgiidae	
	Narella laxa	Primnoidae	
	Radicipes gracilis	Chrysogorgiidae	CZN
	Swiftia sp.	Plexauridae	
Large Gorgonians (GGW)	*Acanthogorgia armata*	Acanthogorgiidae	AZC
	Calyptrophora sp.*	Primnoidae	
	Corallium bathyrubrum	Coralliidae	COR (Corallium)
	Corallium bayeri	Coralliidae	COR (Corallium)
	Iridogorgia sp.*	Chrysogorgiidae	
	Keratoisis cf. *siemensii*	Isididae	
	Keratoisis grayi	Isididae	
	Lepidisis sp.*	Isididae	QFX (Lepidisis)
	Paragorgia arborea	Paragorgiidae	BFU
	Paragorgia johnsoni	Paragorgiidae	BFV
	Paramuricea grandis	Plexauridae	PZL (Paramuricea)
	Paramuricea placomus	Plexauridae	PZL (Paramuricea)
	Paramuricea spp.	Plexauridae	PZL (Paramuricea)
	Parastenella atlantica	Primnoidae	
	Placogorgia sp.	Plexauridae	
	Placogorgia terceira	Plexauridae	
	Primnoa resedaeformis	Primnoidae	QOE
	*Thouarella (Euthouarella) grasshoffi**	Primnoidae	
Sea Pens (NTW – Pennatulacea)	*Anthoptilum grandiflorum*	Anthoptilidae	AJG (Anthoptilum)
	Distichoptilum gracile	Protoptilidae	WDG
	Funiculina quadrangularis	Funiculinidae	FQJ
	Halipteris cf. *christii*	Halipteridae	ZHX (Halipteris)
	Halipteris finmarchica	Halipteridae	HFM
	Halipteris sp.	Halipteridae	ZHX (Halipteris)
	Kophobelemnon stelliferum	Kophobelemnidae	KVF

	Pennatula aculeata	Pennatulidae	QAC
	Pennatula grandis	Pennatulidae	
	Pennatula sp.	Pennatulidae	
	Protoptilum carpenteri	Protoptilidae	
	Umbellula lindahli	Umbellulidae	
	Virgularia mirabilis	Virgulariidae	
Tube-Dwelling Anemones	*Pachycerianthus borealis*	Cerianthidae	WQB
Erect Bryozoans (BZN – Bryozoa)	*Eucratea loricata*	Eucrateidae	WEL
Sea Lilies (CWD – Crinoidea)	*Conocrinus lofotensis*	Bourgueticrinidae	WCF
	Gephyrocrinus grimaldii	Hyocrinidae	
	Trichometra cubensis	Antedonidae	
Sea Squirts (SSX – Ascidiacea)	*Boltenia ovifera*	Pyuridae	WBO
	Halocynthia aurantium	Pyuridae	

Unlikely to be observed in trawls; *in situ* observations only:

Large xenophyophores	*Syringammina* sp.	Syringamminidae

Annex 19. Recommendations of the NAFO Joint Commission-Scientific Council Catch Estimation Strategy Advisory Group (CESAG), 2019

[COM-SC WP 19-10 **now** COM-SC Doc. 19-09]

The NAFO Joint Commission-Scientific Council Catch Estimation Strategy Advisory Group (CESAG) met via WebEx on the dates below and agreed on the following recommendations to forward to the NAFO Commission and Scientific Council:

30 April 2019 (COM-SC Doc. 19-02)

The CESAG recommends that:

1. **The Secretariat forward the CESAG feedback and direction as contained in COM-SC CESAG-WP 19-07 to MRAG Americas, Inc. following the 03 May deadline for comments.**

2. **The Secretariat forward the 2018 catch estimates as contained in COM–SC CESAG-WP 19-03 (Revised) to the Scientific Council.**

3. **the Secretariat continue deriving information as contained in COM–SC CESAG-WP 19-03 to COM-SC CESAG-WP 19-06 for the subsequent years.**

4. **CESAG re-iterates its 2017 Recommendation 5: that the Commission request that STACTIC review current measures relating to reporting of catch by NAFO Division to identify and implement improvements which ensure the most reliable information is available for catch estimation, recognizing its importance in stock assessments and agreed that the data analyses completed in COM-SC CESAG-WPs 19-04, 19-05 and 19-06 be forwarded to STACTIC for information.**

23 July 2019 (COM-SC Doc. 19-04)

The CESAG recommends that:

5. **The *Catch Estimates Methodology Study* report prepared by MRAG Americas, Inc. be accepted and made available as a public document.**

6. **The NAFO Secretariat, in coordination with the CESAG co-Chair, will consider the potential refinements to the Catch Estimation Strategy in response to the recommendation from the Scientific Council.**

Annex 20. The Commission's Request for Scientific Advice on Management in 2021 and Beyond of Certain Stocks in Subareas 2, 3 and 4 and Other Matters

[COM WP 19-39 Rev. 4 **now** COM Doc. 19-29]

Following a request from the Scientific Council, the Commission agreed that items 1, 2, 7, 8 and 11 should be the priority for the June 2020 Scientific Council meeting.

1. The Commission requests that the Scientific Council provide advice for the management of the fish stocks below according to the assessment frequency presented below. In keeping with the NAFO Precautionary Approach Framework (FC Doc. 04/18), the advice should be provided as a range of management options and a risk analysis for each option (rather than a single TAC recommendation) and the actual risk level should be decided upon by managers.

Yearly basis	Two-year basis	Three-year basis
Cod in Div. 3M Northern shrimp in Div. 3M	Redfish in Div. 3M Northern shrimp in Div. 3LNO Thorny skate in Div. 3LNO Witch flounder in Div. 3NO Redfish in Div. 3LN White Hake in Div. 3NO	American Plaice in Div. 3LNO American Plaice in Div. 3M Capelin in Div. 3NO Northern shortfin squid in SA 3+4 Redfish in Div. 3O Yellowtail flounder in Div. 3LNO Greenland halibut in Div. 2+3KLMNO Cod in Div. 3NO Splendid alfonsino in SA 6

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

In 2020, advice should be provided for 2021 for Cod in 3M and Northern shrimp in 3M. With respect to Northern shrimp in 3M, SC is requested to provide its advice to the Commission prior to the 2020 Annual Meeting.

In 2020, advice should be provided for 2021 and 2022 for: Thorny Skate in 3LNO,

In 2020, advice should be provided for 2021, 2022 and 2023 for: American Plaice in 3M,

Advice should be provided using the guidance provided in **Annexes A or B as appropriate**, or using the predetermined Harvest Control Rules in the cases where they exist, currently Greenland halibut 2+3KLMNO.

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

2. The Commission requests the Scientific Council to conduct an update assessment of Greenland halibut in Subarea 2+Div 3KLMNO and to compute the TAC using the agreed HCR and determine whether exceptional circumstances are occurring. If exceptional circumstances are occurring, the exceptional circumstances protocol will provide guidance on what steps should be taken.

3. The Commission requests that Scientific Council continue its evaluation of the impact of scientific trawl surveys on VME in closed areas, and the effect of excluding surveys from these areas on stock assessments.

4. The Commission requests the Scientific Council to implement the steps of the Action plan relevant to the SC and in particular the tasks identified under section 2.2 of the Action Plan, for progression in the management and minimization of Bycatch and discards (COM Doc. 17-26), giving priority in 2020 to the identification of discard species/ stocks listed in Annex I.A. and Annex I.B of the NCEM with high survivability rates.

5. The Commission requests the Scientific Council to continue to refine its work under the Ecosystem Approach and report on these results to both the WGEAFFM and WGRBMS.

6. In relation to the assessment of NAFO bottom fisheries in 2021, the Scientific Council should:

- Assess the overlap of NAFO fisheries with VME to evaluate fishery specific impacts in addition to the cumulative impacts;
- Consider clearer objective ranking processes and options for objective weighting criteria for the overall assessment of significant adverse impacts and the risk of future adverse impacts;
- Maintain efforts to assess all of the six FAO criteria (Article 18 of the FAO International Guidelines for the Management of Deep Sea Fisheries in the High Seas) including the three FAO functional SAI criteria which could not be evaluated in the current assessment (recovery potential, ecosystem function alteration, and impact relative to habitat use duration of VME indicator species).
- Continue to work on non-sponge and coral VMEs (for example bryozoan and sea squirts) to prepare for the next assessment.

7. The Commission requests Scientific Council to conduct a re-assessment of VME closures by 2020, including area #14.

8. The Commission requests the Scientific Council to continue progression on the review of the NAFO PA Framework.

9. The Commission requests Scientific Council continue to work with WG- BDS and the Secretariat to identify areas and times where bycatch and discards of Greenland sharks have a higher rate of occurrence. This work will support WG-BDS in developing appropriate management recommendations, including safe handling practices for live release of Greenland sharks, for consideration by the Commission at its 2021 Annual Meeting.

10. The Commission requests Scientific Council to continue to develop a 3-5 year work plan, which reflects requests arising from the 2019 Annual Meeting, other multi-year stock assessments and other scientific inquiries already planned for the near future. The work plan should identify what resources are necessary to successfully address these issues, gaps in current resources to meet those needs and proposed prioritization by the Scientific Council of upcoming work based on those gaps.

11. The Commission requests that Scientific Council do an update assessment for 3LN redfish and five year projections (2021 to 2025) to evaluate the impact of annual removals at 18 100 tonnes against the performance statistics from NCEM Annex I.H: If this level of catch does not result in fulfilling these performance statistics, SC should advise the level of catch that would.

12. The Commission request that the Scientific Council present the Ecosystem Summary Sheet for 3LNO for presentation to the Commission at the 2020 Annual Meeting.

13. The Commission request the Scientific Council review submitted protocols for a survey methodology to inform the assessment of Splendid Alfonsino. The Scientific Council to report on the outcome of this work at next Commission annual meeting.

14. The COM request that the results of the stock assessment and the scientific advice of Cod 2J3KL (Canada), Witch 2J3KL (Canada) and Pelagic *Sebastes mentella* (ICES Divisions V, XII and XIV; NAFO 1) to be presented to the Scientific Council (SC), and request the SC to prepare a summary of these assessments to be included in its annual report.

15. The Commission to ask the Scientific Council to advise on the possible sustainable management methods for northern shrimp in Div. 3M, including quota, fishing effort, periods, reporting or other technical measures. This advice should be provided before the intersessional work by the end of this year.

16. The Commission requests Scientific Council to continue to monitor and provide updates resulting from relevant research related to the potential impact of activities other than fishing in the Convention Area (for example via EU ATLAS project), and where possible to consider these results in the on-going modular approach concerning the development of Ecosystem Summary Sheets.

17. The Commission requests the Scientific Council to provide advice on gear, including sorting grids, area and time-based measures that can be used to protect and improve the productivity of the 3M Cod stock.

18. The Commission requests the Scientific Council to provide information to the Commission at its next annual meeting on sea turtles, sea birds, and marine mammals that are present in NAFO Regulatory Area based on available data.

ANNEX A: Guidance for providing advice on Stocks Assessed with an Analytical Model

1. The 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:

   For stocks assessed with a production model, the advice should include updated time series of:

   - Catch and TAC of recent years;
   - Catch to relative biomass;
   - Relative Biomass;
   - Relative Fishing mortality;
   - Stock trajectory against reference points; and
   - Any information the Scientific Council deems appropriate.

   Stochastic short-term projections (3 years) should be performed with the following constant fishing mortality levels as appropriate:

   - For stocks opened to direct fishing: 2/3 F_{msy}, 3/4 F_{msy} 85% F_{msy}, 75% F_{2019}, F_{2019}, 125% F_{2019},
   - For stocks under a moratorium to direct fishing: F_{2019}, F = 0.

   The first year of the projection should assume a catch equal to the agreed TAC for that year.

   Results from stochastic short-term projection should include:

   - The 10%, 50% and 90% percentiles of the yield, total biomass, spawning stock biomass and exploitable biomass for each year of the projections
   - The risks of stock population parameters increasing above or falling below available biomass and fishing mortality reference points. The table indicated below should guide the Scientific Council in presenting the short-term projections.

				Limit reference points													
				$P(F>F_{lim})$			$P(B<B_{lim})$			$P(F>F_{msy})$			$P(B<B_{msy})$				$P(B2022 > B2018)$
F in 2019 and following years*	Yield 2020 (50%)	Yield 2021 (50%)	Yield 2022 (50%)	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022		
2/3 F_{msy}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
3/4 F_{msy}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
85% F_{msy}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
F_{msy}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
0.75 X F_{2018}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
F_{2018}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
1.25 X F_{2018}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
F=0	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%

2. For stock assessed with an age-structured model, information should be provided on stock size, spawning stock sizes, recruitment prospects, historical fishing mortality. Graphs and/or tables should be provided for all of the following for the longest time-period possible:

   - Historical yield and fishing mortality;
   - Spawning stock biomass and recruitment levels;
   - Stock trajectory against reference points; and
   - Any information the Scientific Council deems appropriate.

   Stochastic short-term projections (3 years) should be performed with the following constant fishing mortality levels as appropriate:
   - For stocks opened to direct fishing: $F_{0.1}$, F_{max}, 2/3 F_{max}, 3/4 F_{max}, 85% F_{max}, 75% F_{2019}, F_{2019}, 125% F_{2019},
   - For stocks under a moratorium to direct fishing: F_{2019}, F = 0.

   The first year of the projection should assume a catch equal to the agreed TAC for that year.

   Results from stochastic short-term projection should include:

   - The 10%, 50% and 90% percentiles of the yield, total biomass, spawning stock biomass and exploitable biomass for each year of the projections
   - The risks of stock population parameters increasing above or falling below available biomass and fishing mortality reference points. The table indicated below should guide the Scientific Council in presenting the short-term projections.

				Limit reference points													
				$P(F.>F_{lim})$			$P(B<B_{lim})$			P(F>F0.1)			$P(F>F_{max})$				P(B2022 > B2018)
F in 2019 and following years*	Yield 2020	Yield 2021	Yield 2022	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022		
F0.1	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
F_{max}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
66% F_{max}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
75% F_{max}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
85% F_{max}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
0.75 X F_{2018}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
F_{2018}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%
1.25 X F_{2018}	t	t	t	%	%	%	%	%	%	%	%	%	%	%	%		%

ANNEX B. Guidance for providing advice on Stocks Assessed without a Population Model

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.

The following graphs should be presented, for one or several surveys, for the longest time-period possible:

a) time trends of survey abundance estimates
b) an age or size range chosen to represent the spawning population
c) an age or size-range chosen to represent the exploited population
d) recruitment proxy or index for an age or size-range chosen to represent the recruiting population.
e) fishing mortality proxy, such as the ratio of reported commercial catches to a measure of the exploited population.
f) Stock trajectory against reference points

And any information the Scientific Council deems appropriate.

Annex 21. Quota Table and the Effort Allocation Scheme for the 3M Shrimp Fishery 3M for 2020

CATCH LIMITATIONS – Article 5. Total allowable catches (TACs) and quotas (metric tons in live weight) for 2020 of particular stocks in Subareas 1-4 of the NAFO Convention Area.

Species	Cod				Redfish					American plaice		Yellowtail
Stock Specification	**COD 3L**	**COD 3M**		**COD 3NO**	**RED 3LN**		**RED 3M**	**RED 3O**	**REB 1F_2_3K (i.e. Sub-Area 2 and Divs. 1F+3K)**	**PLA 3LNO**	**PLA 3M**	**YEL 3LNO**
% of TAC			**% of 3M Cod TAC**			**% of 3LN Redfish TAC**						
Contracting Party												
Canada		68	0.80	0	7 710	42.60	500	6 000	0[1]	0	0	16 575
Cuba		316	3.70	-	1 774	9.80	1 750		0[1]	-	-	-
Denmark (Faroe Islands and Greenland)		1 907	22.35	-	-		69[10]		0	-	-	-
European Union		4 865[5]	57.03	0[4]	3 300[4]	18.23	7 813[4]	7 000	0 0[7]	0	0[4]	-
France (St. Pierre et Miquelon)		-		-	-		69[10]		0[1]	-	-	340
Iceland		-		-	-		-		0	-	-	-
Japan		-		-	-		400	150	0[1]	-	-	-
Korea		-		-	-		69[10]	100	0[1]	-	-	-
Norway		789	9.25	-	-		-		0	-	-	-
Russian Federation		552	6.47	0	5 207	28.77	9 137	6 500	0	-	0	-
Ukraine								150	0[1]			
United States of America		-		-	-		69[10]		0[1]	-	-	-
Others		34	0.40	0	109	0.60	124	100	-	0	0	85
TOTAL ALLOWABLE CATCH	*	8 531	100.0[13]	*	18 100	100.0[14]	8 590	20 000[11]	0[3,9]	*[8]	*	17 000[8]

Species	Witch			White hake	Capelin	Skates	Greenland halibut	Squid (*Illex*)	Shrimp		Alfonsino
Stock Specification	**WIT 3L**	**WIT 3NO**		**HKW 3NO**	**CAP 3NO**	**SKA 3LNO**	**GHL 3LMNO**	**SQI 3_4 (i.e. Sub-areas 3+4)**	**PRA 3L**	**PRA 3NO**	**ALF 6 (i.e. Sub-area 6)**
% of TAC			**% of 3NO Witch TAC**								
Contracting Party											
Canada		705	60.00	294	0	1 167	1 881	N.S.[2]	0		
Cuba		-			0		-	510	0		
Denmark (Faroe Islands and Greenland)		-			-		216	-	0		
European Union		156[4]	13.27	588	0[5]	4 408	7 353[6]	N.S.[2] 611[5]	0[6]		
France (St. Pierre et Miquelon)		-			-		206	453	0		
Iceland		-			-		-	-	0		
Japan		-			0		1 286	510	0		
Korea		-			-		-	453	0		
Norway		-			0		-	-	0		
Russian Federation		302	25.73	59	0	1 167	1 600	749	0		
Ukraine							-		0		
United States of America		-			-		-	453	0		
Others		12	1.00	59	-	258		794	0		
TOTAL ALLOWABLE CATCH	*[11]	1 175[8]	100.00[15]	1 000[8]	*[8]	7 000[12]	12 542	34 000[11]	0[8]	*	*

* Ban on fishing in force.

1 Quota to be shared by vessels from Canada, Cuba, France (St. Pierre et Miquelon), Japan, Korea, Ukraine and USA.
2 The allocations to these Contracting Parties are as yet undetermined, although their sum shall not exceed the difference between the total of allocations to other Contracting Parties and the TAC (= 29.467 tonnes).
3 Should NEAFC modify its level of TAC, these figures shall be adjusted accordingly by NAFO through a mail vote.
4 Including allocations to Estonia, Latvia and Lithuania in accordance with the sharing arrangement of the former USSR quota adopted by the Fisheries Commission in 2003 (FC WP 03/7), as applied by NAFO since 2005 following their accession to the European Union.
5 Including allocations to Estonia, Latvia and Lithuania in accordance with the sharing arrangement of the former USSR quota adopted by the Fisheries Commission in 2003 (FC WP 03/7), and to Poland, as applied by NAFO since 2005 following their accession to the European Union.
6 Including allocations to Estonia, Latvia, Lithuania and Poland, as applied by NAFO since 2005 following their accession to the EU.
7 Allocation of 17.85% to Lithuania and 2.15% to Latvia following their accession to the European Union.
8 Applicable to 2020 and 2021.
9 If an increase in the overall TAC as defined in footnote 3 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 1.
10 Notwithstanding the provision of Article 5.3(b) and without prejudice to future agreements on allocations, these quotas may be fished in their entirety by these Contracting Parties.
11 Applicable to 2020, 2021, and 2022.
12 Should catches exceed 5 000 tonnes, additional measures would be adopted to further restrain catches in 2020.

Historical statements

13 The allocation key of this stock is based on the 1998 Quota Table. In 1999, a moratorium on cod in Division 3M was declared.
14 The allocation key of this stock is based on the 1997 Quota Table. In 1998, a moratorium on redfish in Division 3LN was declared.
15 The allocation key of this stock is based on the 1994 Quota Table. In 1995, a moratorium on witch flounder in Division 3NO was declared.

Effort Allocation Scheme for Shrimp Fishery in the NAFO Regulatory Area Div. 3M, 2020

CONTRACTING PARTY	NUMBER OF FISHING DAYS[1]
Canada	114
Cuba	25[3]
Denmark – Faroe Islands – Greenland	 402 129
European Union[2]	823[3]
France (in respect of St. Pierre et Miquelon)	25[3]
Iceland	N/A
Japan	25
Korea	25
Norway	496[3]
Russia	525[3]
Ukraine	25[3]
USA	25
TOTAL	**2 640**

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.

2 Including fishing entitlements transferred from Poland (25 fishing days), Estonia (416 fishing days), Latvia (123 fishing days) and Lithuania (145 fishing days) following their accession to the European Union.

3 In derogation of CEM Article 5.11 and CEM Article 9.4, the European Union will transfer 25 fishing days of its fishing days allocation for 2020 to France, in respect of St Pierre et Miquelon; Norway will transfer 25 fishing days of its fishing days allocation for 2020 to Ukraine; and the Russian Federation will transfer 25 fishing days of its fishing days allocation for 2020 to Cuba. The above transfers are without prejudice to the effort allocation key and are only for the year 2020 only. The 2020 catches under this interim regime will not create any catch history.

Annex 22. Improving the basis for the long-term management of 3M Cod

[COM WP 19-42 **now** COM Doc. 19-30]

- The Commission acknowledges that the Management Strategy Evaluation will resume when Scientific Council determines that conditions are such that there is a reasonable probability of success. The Commission supports the continuation of the technical work to solve the challenges posed by the strong variability observed in the stock dynamics and biological parameters.

- The Commission strongly recommends that all relevant Contracting Parties give high priority to dedicated research to improve scientific knowledge on the biological parameters and other aspects relevant to improving understanding of the dynamics of the stock.

- The Commission requests the Scientific Council to provide advice on gear, including sorting grids, area and time-based measures that can be used to protect and improve the productivity of the stock.

- The Commission requests STACTIC to consider the feasibility of introducing a requirement for the use of sorting grids in trawl fishery for 3M cod.

Annex 23. Interim Measure for Shrimp 3M for 2020

[COM WP 19-37 Rev. 5 **now** COM Doc. 19-27]

Recalling NAFO CEM Annex I.B "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 closure."

This year, the Scientific Council affirms that there is sufficient evidence allowing directed fishing, as there has been continuous increase of biomass over 5 years and the stock has very low probability of being below b_{lim}.

Therefore, the fishery should be re-opened in accordance with the effort allocation key of 2009; Annex I.B shall apply.

However, as the biomass is just recovering, the EU recommends, as an interim measure for 2020, the reduction of fishing effort to 25% of 2009 levels.

	Fishing days in 2009	**1/4 of fishing days in 2009**
Canada	456	114
Cuba	100	25
Denmark		
Faroe Islands	1606	402
Greenland	515	129
European Union	3293[1]	823[1]
France (in respect of St Pierre et Miquelon)	100	25
Iceland	n/a	n/a
Japan	100	25
Korea	100	25
Norway	1985	496
Russia	2100	525
Ukraine	100	25
USA	100	25
Total	**10 555**	**2 640**

If that interim measure is accepted, application of CEM Article 9.2 should be suspended for next year. The relevant footnote should be inserted into the CEM.

The footnote shall be inserted into the Annex I.B CEM table with the following text:

"In derogation of CEM Article 5.11 and CEM Article 9.4, the European Union will transfer 25 fishing days of its fishing days allocation for 2020 to France, in respect of St Pierre et Miquelon; Norway will transfer 25 fishing days of its fishing days allocation for 2020 to Ukraine; and the Russian Federation will transfer 25 fishing days of its fishing days allocation for 2020 to Cuba. The above

[1] Including fishing entitlements transferred from Poland (25 fishing days), Estonia (416 fishing days), Latvia (123 fishing days) and Lithuania (145 fishing days) following their accession to the European Union.

transfers are without prejudice to the effort allocation key, and are only for the year 2020 only. The 2020 catches under this interim regime will not create any catch history."

As this is an interim solution only for 2020, the European Union proposes that the Commission adopts at this meeting a mandate for the intersessional work that shall discuss a new fishing regime of Shrimp 3M stock, taking a broader view into other management options then fishing effort, such a quotas, periods, technical measures, reporting. The mandate would be to present the outcome of this inter-sessional work at the 2020 Annual Meeting. The Contracting Parties will need to submit their proposals at least one month before the intersessional meeting that will take place during late Spring 2020.

In order to facilitate the intersession works on possible fisheries management options for Shrimp 3M, the EU would like the Commission to ask the Scientific Council to advise on the possible sustainable management methods for this stock, including where possible quota, fishing effort, periods, reporting or other technical measures. The advice should be available before the end of 2019.

In addition, the Commission should propose that, if in 2020 based on available data total catch exceeds the level of maximum catch recommended by the Scientific Council (5,448 t), then the Commission shall at the 2020 Annual Meeting review the relevant management measures in place for Shrimp 3M, in order to develop additional appropriate measures, to ensure that total catches do not exceed the scientific advice.

The Commission also asks the Secretariat to make available on their website weekly information on used fishing days and catch uptake.

Annex 24. Recommendations of the NAFO Commission Ad hoc Working Group to Reflect on the Rules Governing Bycatches, Discards and Selectivity (WG-BDS)

[COM WP 19-17 **now** COM Doc. 19-31]

The NAFO Commission Ad hoc Working Group to Reflect on the Rules Governing Bycatches, Discards and Selectivity (WG-BDS) in the NAFO Regulatory Area met in July 2019 (COM Doc. 19-05) and agreed on the following recommendations to forward to the NAFO Commission.

To support the continued full implementation of the Action Plan (COM Doc. 17-26), the WG-BDS recommends that:

1. **That the Secretariat continue its analysis of bycatch and discard information to include all NAFO Annex I.A and Annex 1.B species as well as 3M Witch flounder and 3M Thorny skate.**

2. **The Commission include in its request for advice at the 2019 Annual meeting, the tasks identified under Section 2.2, particularly on the identification of discard species/stocks listed in Annex I.A and Annex I.B of the NCEM with high survivability rates.**

3. **The Chair of the WG-BDS continue to coordinate with the Chairs of SC and STACTIC on matters related to the implementation of the Action Plan.**

Annex 25. Changes in NAFO CEM from the Editorial Drafting Group

[STACTIC WP 19-06 Revised **now** COM Doc. 19-07]

The Editorial Drafting Group (EDG) met from 05-07 March 2019 (STACTIC EDG-WP 19-03) and agreed to forward the changes to the NAFO CEM below to STACTIC for approval. These changes were originally presented in STACTIC EDG-WP 19-02 (Revised).

CEM	ISSUE	SUGGESTION
5.3.d	Correct the CEM reference to clarify the time of closure of the "Others" quota	Replace the CEM reference 15(d) by 15(d)***ii***
5.7.b	Correct a typing error: change "on" by "for"	Change "allocated on that stock" to "allocated ***for*** that stock"
5.15.f	Correct the CEM reference on CP failing to close their RED 3M fishery on time	Replace the CEM reference 15(d) by ~~1~~5(d)
6.3.d	Correct a typing error: delete "to"	Delete the redundant "to" in ..."quota opened ~~to~~ for that stock"...
	Change moratoria to moratorium since is it referring to a single moratorium	d. where a ban on fishing applies (moratori~~a~~**um**),
	The sentence is mixing two different concepts "moratoria" and "Others". Proposal to separate these two concepts into two bullets.	Current text: d. where a ban on fishing applies (moratoria), or when the "Others" quota opened to for that stock has been fully utilized: 1250 kg or 5%, whichever is the greater; Replace with: d. where a ban on fishing applies (moratori~~a~~**um**): 1250 kg or 5%, whichever is the greater; e. when the "Others" quota opened ~~to~~ for that stock has been fully utilized: 1250 kg or 5%, whichever is the greater; Renumber remaining points accordingly.
12.1.b	Consistency with wording of duties of CPs	Redraft the sentence as follows: b. for all observed hauls that contain Greenland shark, **require its observers to** ~~observer shall~~ record the number...
13.2.a	Clarify if all species of shrimp are concerned, or only "PRA"	Redraft the sentence as follows: a. 40 mm for shrimps, ~~and~~ **including** prawns (PRA);
28.3.d	Need to give sense to the words "labels each entry"	Redraft the sentence as follows: "~~labels~~ ***records*** each entry in accordance with Art 27"
25.8.j	Put the estimation of freezing capacity mandatory	Redraft the sentence as follows: j. estimation of freezing capacity or**, if possible,** certification of refrigeration system will be provided ~~if possible~~.
37.1.g	Align the relationship with the observer to the new observer programme (coverage derogation)	Redraft the sentence as follows: "~~where practicable~~, notify ~~the~~ **any** observer~~(s)~~ **on board** of the infringement."
37.2.a.i.1	Correct the CEM reference to clarify what must appear in the written notification	Replace the point 15 reference to ***14.2***, that qualifies the infringements
38.1.e	Correct the CEM reference to address the closed areas	Replace the CEM reference 11 by ***17***
38.1.k	Correct the CEM reference to address the reporting of sharks	Replace the CEM reference 10.6 to ***12.1(a)***

Annex 26. Addition of footnote to Annex I.C of the NAFO CEM

[STACTIC WP 19-07 **now** COM Doc. 19-08]

The Editorial Drafting Group (EDG) met from 05-07 March 2019 (STACTIC EDG-WP 19-03) and requested that:

> *a footnote be added to Annex I.C noting that if a species code is not available in Annex I.C, then the FAO ASFIS list of species codes should be used. The NAFO Secretariat will draft the footnote for presentation at the STACTIC Intersessional meeting.*

Below is the proposal to include a footnote reference to the FAO ASFIC species list to Annex I.C of the NAFO CEM.

Annex I.C[1]
List of Species

Common English Name	Scientific Name	3-Alpha Code
Groundfish		
Atlantic Cod	*Gadus morhua*	COD
Haddock	*Melanogrammus aeglefinus*	HAD
…	…	…
…	…	…
Marine invertebrates (NS)	*Invertebrata*	INV

1 If a species is caught that is not found in this list (Annex I.C), then the FAO ASFIS list of species codes should be used. The ASFIS list is found at: http://www.fao.org/fishery/collection/asfis/en

Annex 27. Editorial changes in the NAFO CEM from the Editorial Drafting Group

[STACTIC WP 19-11 Revised **now** COM Doc. 19-09]

The Editorial Drafting Group (EDG) met from 05-07 March 2019 and discussed the changes in the table reflected in the EDG meeting Report (STACTIC EDG-WP 19-03). STACTIC reviewed the changes and agreed on the following revisions.

CEM	Issue	Suggestion	EDG Discussion
10.5.d.i	Change the first occurrence of "notification"	Replace the first "notification" by "confirmation": "it receives no ~~notification~~ ***confirmation*** within 72 hours"	On reviewing this change, EDG raised concerns about the notification process under Article 10 and noted that this process requires further review by STACTIC.

Annex 28. Amendments of NAFO CEM Annexes II.F and II.G

[STACTIC WP 19-20 **now** COM Doc. 19-10]

Proposal presented in JAGDM as JAGDM-2019-01-09 Rev. 1.

During the 2015 STACTIC Intersessional meeting, the issue of ambiguous definitions in Annexes II.C to II.G was referred to JAGDM for clarification and advice with a view to amending the pertinent tables in the Annexes with clear definitions and tangible examples of the correct reporting formats.

Initial reviews in 2015 concentrated on the data field codes SQ, DA, TI, RN, RD, and RT, and it was noted at that time that there remained a need to further identify and modify elements as well as develop examples. In an effort to continue the review process, JAGDM proposes the following further clarification of the DA and TI fields within Annexes II.F and II.G.

Currently within NAFO, there is still confusion as to the appropriate date and time to include in the DA and TI fields of Cancel reports – some reports erroneously include the DA and TI fields from the report that is to be cancelled, while others correctly provide the date and time of the CAN report's transmission. The following changes are proposed to clarify the DA and TI which should appear in the Cancel report and to include the same amendment in other reports to maintain consistency throughout the tables.

Annex II.F

2) "Catch on ENTRY" report

Data Element	Field Code	Mandatory/ Optional	Requirements for the field
Start record	SR	M	System detail; indicates start of record
From	FR	M	Message detail; Address of the transmitting party (ISO- 3)
Address	AD	M	Message detail; destination, "XNW" for NAFO
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; message type, "COE" as Catch on Entry report
Sequence Number	SQ	M	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Master Name	MA	M	Name of the master of vessel
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude	LA	M	Activity detail; Latitude at time of transmission
Longitude	LO	M	Activity detail; Longitude at time of transmission

Relevant Area	RA	M	NAFO Division into which the vessel is about to enter
Date	DA	M	Message detail; UTC date of transmission of this report from the vessel
Time	TI	M	Message detail; UTC time of transmission of this report from the vessel
On Board	OB	M	Activity detail; Total quantity by species on board rounded to the nearest 100 kg, upon entry in the RA. 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/ speciesspaceweightspacespeciesspace weightspacespeciesspaceweight//
Observer on board	OO	M	Activity detail; "Yes" or "No"
End of record	ER	M	System detail; indicates end of the record

3) "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)
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
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
Sequence Number	SQ	M	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Contracting Party Internal Reference Number	IR	O	Vessel registration detail; unique Contracting Party vessel number as ISO-3 flag State code followed by number
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Relevant Area	RA	M	Activity detail; NAFO Division
Latitude	LA	M[1]	Activity detail; Latitude at time of transmission from the vessel
Longitude	LO	M[1]	Activity detail; Longitude at time of transmission from the vessel

Catch species live weight	CA	M	Activity detail; 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/ speciesspaceweightspacespecies spaceweightspacespeciesspace weightspace//
Discarding species live weight	RJ	M	Activity detail; Catch discarded by species and by Division since last CAT report, in kg rounded to the nearest 100 kg. 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. //RJ/ speciesspaceweightspacespecies spaceweightspacespecies spaceweight//
Chartering Flag	CH	M[2]	Flag of Chartering Contracting Party to which the catch must be allocated
Days Fished	DF	M[3]	Activity detail; number of fishing days in the Regulatory Area since last CAT report, as appropriate
Date	DA	M	Message detail; UTC date of transmission of this report from the vessel
Time	TI	M	Message detail; UTC time of transmission of this report from the vessel
End of record	ER	M	System detail; indicates end of the record

[1] Optional if the vessel is subject to satellite tracking in accordance with Article 29.1.

[2] Mandatory if fishing activity under chartering agreement.

[3] By default, the normal reporting period should be 1 day.

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

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)
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; message type, "COB" for Cross Boundary Catch report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Sequence Number	SQ	M	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)

Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Contracting Party Internal Reference Number	IR	O	Vessel registration detail; unique Contracting Party vessel number as ISO-3 flag State code followed by number
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Relevant Area	RA	M	Activity detail; NAFO Division entering from
Latitude	LA	M[1]	Activity detail; Latitude at time of transmission from the vessel
Longitude	LO	M[1]	Activity detail; Longitude at time of transmission from the vessel
Catch species live weight	CA	M	Activity detail; 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/ speciesspaceweightspacespecies spaceweightspace speciesspace weightspace//
Area of entry	AE	M	Activity detail; NAFO Division entering into
Catch species live weight	OB	M	Activity detail; Total quantity by species on board rounded to the nearest 100 kg, upon crossing the 3L border. 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/ speciesspaceweightspace speciesspaceweightspacespecies spaceweight//
Days Fished	DF	M	Activity detail; number of fishing days in the Regulatory Area
Date	DA	M	Message detail; UTC date of transmission of this report from the vessel
Time	TI	M	Message detail; UTC time of transmission of this report from the vessel
End of record	ER	M	System detail; indicates end of the record

[1] Optional if the vessel is subject to satellite tracking in accordance with Article 29.1.

5) "TRANSHIPMENT" report

Data Element	Field Code	Mandatory/ Optional	Requirements for the field
Start record	SR	M	System detail; indicates start of record
From	FR	M	Message detail; Address of the transmitting party (ISO-3)
Address	AD	M	Message detail; destination, "XNW" for NAFO
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; message type, "TRA" as Transhipment report
Sequence Number	SQ	M	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Name of Master	MA	O	Name of master of vessel
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Quantity on-loaded or off-loaded species live weight	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 weight in kilograms (until 9 digits), with each field separated by a space, e.g.//KG/speciesspaceweight spacespeciesspaceweight spacespeciesspaceweightspace//
Transhipped To	TT	M[1]	Vessel registration detail; International radio call sign of the receiving vessel
Transhipped From	TF	M[1]	Vessel registration detail; International radio call sign of the donor vessel
Latitude	LA	M[2]	Activity detail; estimated latitude where the master intends to do the transhipment
Longitude	LO	M[2]	Activity detail; estimated longitude where the master intends to do the transhipment
Predicted Date	PD	M[2]	Activity detail; estimated date UTC when the master intends to do the transhipment (YYYYMMDD)
Predicted Time	PT	M[2]	Activity detail; estimated time UTC when the master intends to do the transhipment (HHMM)
Date	DA	M	Message detail; UTC date of transmission of this report from the vessel
Time	TI	M	Message detail; UTC time of transmission of this report from the vessel
End of record	ER	M	System detail; indicates end of the record

[1] Whichever one is appropriate

[2] Optional for reports sent by the receiving vessel after the transhipment.

6) "Catch on EXIT" 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)
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; "COX" as Catch on Exit report
Sequence Number	SQ	M	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Master Name	MA	O	Name of master of vessel
ExternalRegistration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude	LA	O[1]	Activity detail; Latitude at time of transmission from the vessel
Longitude	LO	O[1]	Activity detail; Longitude at time of transmission from the vessel
Relevant Area	RA	M	NAFO area from which the vessel is about to exit
Catch species live weight	CA	M	Activity detail; 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/speciesspaceweightspacespecies spaceweightspace species spaceweightspace//
Catch species live weight	OB	M	Activity detail; Total quantity by species on board rounded to the nearest 100 kg, upon exit from the RA. 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/speciesspaceweightspacespecies spaceweightspacespecies spaceweight//
Days Fished	DF	O	Activity detail; number of fishing days in the Regulatory Area
Date	DA	M	Message detail; UTC date of transmission of this report from the vessel
Time	TI	M	Message detail; UTC time of transmission of this report from the vessel
End of record	ER	M	System detail; indicates end of the record

[1] Optional if the vessel is subject to satellite tracking in accordance with Article 29.1.

7) "PORT OF LANDING" report

Data Element	Field Code	Mandatory / Optional	Requirements for the field
Start record	SR	M	System detail; indicates start of record
From	FR	M	Message detail; Address of the transmitting party (ISO-3)
Address	AD	M	Message detail; destination, "XNW" for NAFO
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; message type, "POR"
Sequence Number	SQ	M	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Name of Master	MA	O	Name of master of vessel
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude	LA	M[1]	Activity detail; Latitude at time of transmission
Longitude	LO	M[1]	Activity detail; Longitude at time of transmission
Coastal State	CS	M	Activity detail; Coastal State of Port of Landing
Name of Port	PO	M	Activity detail; name of Port for landing
Predicted Date	PD	M	Activity detail; estimated date UTC when the master intends to be in port (YYYYMMDD)
Predicted Time	PT	M	Activity detail; estimated time UTC when the master intends to be in port (HHMM)
Quantity to be landed species live weight	KG	M	Activity detail; Quantity by species in kilograms rounded to the nearest 100 kilograms, to be landed in a port. 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.//KG/ speciesspaceweightspacespeciesspace weightspacespeciesspaceweightspace//
Quantity on board species live weight	OB	M	Activity detail; Total quantity by species on board rounded to the nearest 100 kg, in advance of landing of the transhipped quantities. 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/ speciesspaceweightspacespecies spaceweightspace speciesspaceweight//
Date	DA	M	Message detail; UTC date of transmission of this report from the vessel
Time	TI	M	Message detail; UTC time of transmission of this report from the vessel
End of record	ER	M	System detail; indicates end of the record

[1] Optional if a vessel is subject to satellite tracking.

8) "CANCEL" report

Data Element	Field Code	Mandatory/ Optional	Requirements for the field
Start record	SR	M	System detail; indicates start of record
From	FR	M	Message detail; Address of the transmitting party (ISO-3)
Address	AD	M	Message detail; destination, "XNW" for NAFO
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; message type, "CAN[1]" as Cancel report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Cancelled report	CR	M	Message detail; the record number of the report to be cancelled
Year of the report cancelled	YR	M	Message detail; year of the report to be cancelled
Date	DA	M	Message detail; UTC date of transmission of this report from the vessel[2]
Time	TI	M	Message detail; UTC time of transmission of this report from the vessel[2]
End of record	ER	M	System detail; indicates end of the record

[1] Cancel report should not be used to cancel other Cancel report.

[2] If the report is not sent from a vessel the time will be from the FMC and be the same as RD, RT.

Annex II.G

Observer 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
Sequence Number	SQ	M	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, "**OBR**" as Observer report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Fishing Gear	GE	M	Activity detail; FAO code for fishing gear
Directed Species[6]	DS	M	Activity detail; FAO species code
Mesh Size	ME	M	Activity detail; average mesh size in millimetres
Relevant Area	RA	M	Activity detail; NAFO Division
Daily Catches species live weight	CA	M M	Activity detail; catch retained on board by species and by Division since last OBR 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/speciesspaceweight spacespeciesspaceweightspacespeies spaceweight//
Discarding species live weight	RJ	M[1]	Activity detail; Catch discarded by species and by Division since last OBR report, in kg rounded to the nearest 100 kg. 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.//RJ/ speciesspaceweightspacespecies spaceweightspacespeciesspaceweight//
Undersize species live weight	US	M[1]	Activity detail; Undersize catch by species and by Division since last OBR report, in kg rounded to the nearest 100 kg. 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.//US/ speciesspaceweightspacespecies spaceweightspacespeciesspaceweight//
Logbook	LB	M	Activity detail; "Yes" or "No" [2]
Production	PR	M	Activity detail; code for the production. See Annex II.K
Hails	HA	M	Activity detail; observers verification if the reports made by the captain are correct, "Yes" or "No" [3]
Apparent Infringements	AF	M	Activity detail; "Yes" or "No" [4]
Observer Name	ON	M	Message detail; name of the observer signing the report

Date	DA	M	Message detail; date of transmission of this report
Free Text	MS	O[5]	Activity detail; for further comments by the observer
Time	TI	M	Message detail; time of transmission of this report
End of record	ER	M	System detail; indicates end of the record

[1] Only to be transmitted if relevant.

[2] "Yes" if the observer approves the Logbook entries by the captain.

[3] "Yes" if the observer approves the Hails transmitted by the captain.

[4] "Yes" if an infringement is observed.

[5] Mandatory if "LB" = "No", or "HA" = "No", or "AF" = "Yes".

[6] Directed species is the species which represents the greatest catch for that day.

Annex 29. Reference to "the smallest geographical area" in NAFO CEM Article 28.2a and 28.3.b

[STACTIC WP 19-21 **now** COM Doc. 19-11]

Background

Where referring to the record of catches in the fishing and production logbooks, Article 28.2.a and 28.3.b refer to "the smallest geographical area for which a quota has been allocated". This wording is not congruent with the general terminology within the CEM, where a sub-area is defined as a Division.

To restore editorial congruousness within the CEM, it is proposed to replace the wording "*the smallest geographical area for which a quota has been allocated*" by "Division".

Editorial change to Article 28.3(b) is also proposed for clarity.

Such amendments align with the language of Article 6.4, Article 27.1(d), Article 28.6 (c) and common practice in the NAFO fisheries.

Proposed Amendment

1. Fishing logbook

Introduce the following change in Article 28.2.a:

(a) accurately records catch of each tow/set ~~related to the smallest geographical area for which a quota has been allocated~~ by Division;

2. Production Logbook

Introduce the following change in Article 28.3.b:

(b) ~~relates~~ records the production of each species and product type to ~~the smallest geographical area for which a quota has been allocated~~ by Division;

Annex 30. NAFO CEM Article 28 – Monthly Catch report (Article 28.8a)

[STACTIC WP 19-22 Rev. 2 **now** COM Doc. 19-12]

Preamble

The CEM Article 28.8.a requests each Contracting Party to transmit on a monthly basis its provisional monthly catches by species and stock area to the Executive Secretary.

To avoid administrative burden, Contracting Parties that transmit their catches by species and area on a daily basis to the NAFO Secretariat through the CAT messages referred to in CEM Article 28.6.c should be exempted from the production of monthly aggregation of the same data. This monthly aggregation can be done by the NAFO Secretariat by adding the correspondent daily CAT messages.

It is therefore proposed to add a sentence in CEM Article 28.8.a accordingly.

Proposed amendment

The following sentence is added to CEM Article 28.8 paragraph a, sub-paragraph a:

Catch and Fishing Effort Reporting by Contracting Parties

8. Each Contracting Party shall:

(a) unless the derogation under paragraph 8.b applies, report its provisional monthly catches by species and stock area, and its provisional monthly fishing days for the 3M shrimp fishery, whether or not it has quota or effort allocations for the relevant stocks. It shall transmit these reports to the Executive Secretary within 30 days of the end of the calendar month in which the catch was taken. ~~The Contracting Parties that are transmitting CAT messages in accordance with Article 28.6.c are exempted from this monthly declaration~~

(b) By way of derogation, paragraph 8.a does not apply if all catches have been reported in accordance with paragraph 6.~~c~~.

(c) Ensure that logbook information is submitted in either Extensible Markup Language (XML) or in a Microsoft Excel file format, to the Executive Secretary containing at a minimum the information outlined in Annex II.N within 60 days following the completion of each fishing trip.

Duties of the Executive Secretary

9. The Executive Secretary:

(d) no later than 10 days after the end of each calendar month, collates the information received via ~~CAT~~ reports submitted in accordance with paragraph 6~~(c)~~ of this Article and provisional monthly catch reports submitted in accordance with paragraph 8(a) and circulates it together with aggregate catch statistics by stock area to all Contracting Parties;

Annex 31. Adjustments to Multiple flap-type topside chafers in NAFO CEM Annex III.B.2

[STACTIC WP 19-25 Revised **now** COM Doc. 19-13]

Background

At the 2018 CAN/EU NAFO Inspectors' Workshop, inspectors discussed the use of gear attachments, particularly the use of multiple flap-type topside chafers, which are currently permitted in the NAFO CEMs, as defined in Annex III.B.2. The discussion was largely centered around concerns that the current chafer system obstructs mesh in the codend. Inspectors have observed that obstruction is caused by the currently permitted overlapping configuration of flaps along with an increase in the size and weight of twine being used. As a result, the chafer creates multiple layers of netting overlapping the codend meshes which prevent escapement of small fish.

It was agreed that Canada would develop a proposal for consideration. The following amendments to Annex III.B of the NAFO CEMs are proposed to adjust the definition of a multiple flap-type topside chafer. These changes will decrease the obstruction of codend mesh while satisfying the primary purpose of chafers, protecting the net during operations.

Proposed Amendments

Annex III.B

2. Multiple flap-type topside chafer

The multiple flap-type topside chafer is defined as pieces of netting having in all their parts meshes the size of which~~, whether the pieces of netting are wet or dry,~~ is not less than that of the codend, provided that:

(i) each piece of netting

(a) is fastened a minimum of one meter apart by its ~~forward~~ leading edge ~~only~~ across the codend at right angles to its long axis;

(b) does not overlap the leading edge of the next piece of netting (see illustration following this provision);

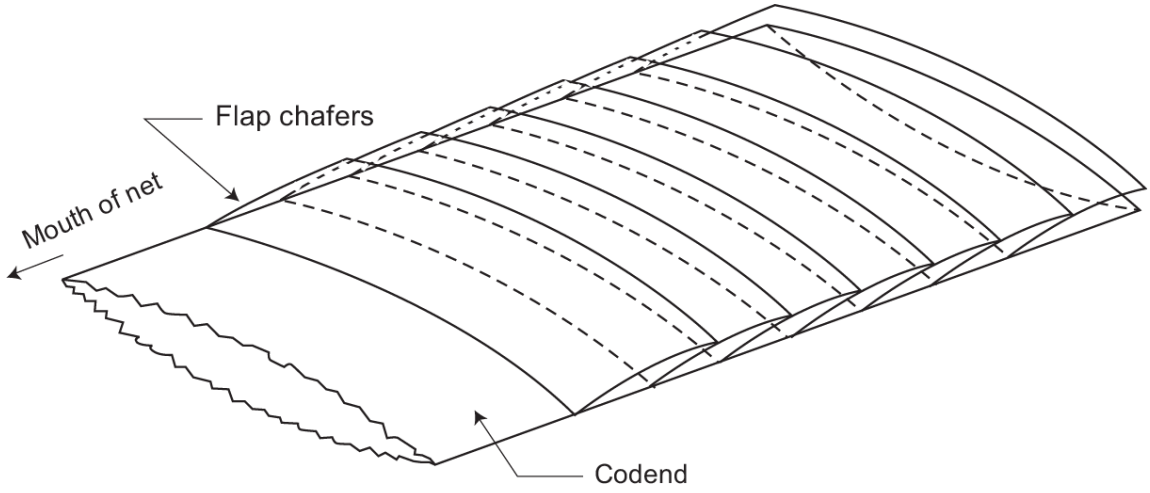
(c) is of a width of at least the width of the codend (such width being measured at right angles to the long axis of the codend at the point of attachment); and

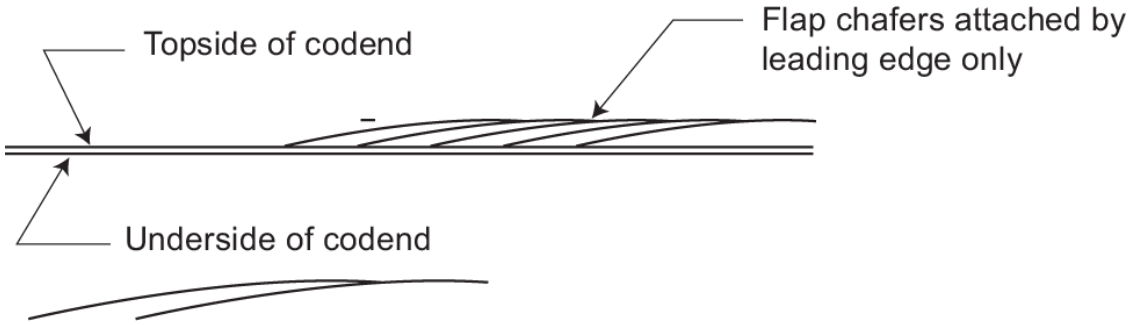
(d) ~~is not more than ten meshes long; and~~

(e) is constructed of a positively buoyant single twine material; and

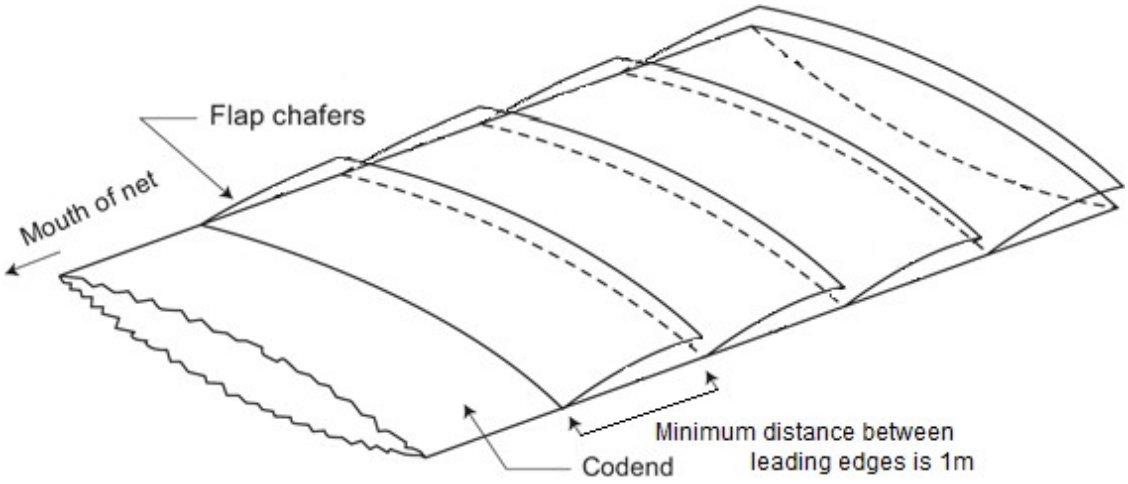
(ii) the aggregate length of all the pieces of netting so attached does not exceed two- thirds of the length of the codend.

Current Images (TO BE REMOVED)





New Images (TO BE INSERTED):



Annex 32. Production Logbook and Stowage Plan Updated at the Request of Inspectors (NAFO CEM Article 28)

[STACTIC WP 19-27 Rev. 4 **now** COM Doc. 19-14]

Background

At the 2018 CAN/EU NAFO Inspector's workshop, inspectors discussed the reporting timelines currently in the NCEM for production logbook and stowage plans as per Article 28 - Monitoring of Catch.

The inspectors shared their experiences in acquiring information from vessel masters, particularly the availability of information on catch/production/stowage for the day of inspection. Canadian inspectors noted that some masters have refused to provide their completed catch information for the day of the inspection, citing the current measure only require catch information to be provided for the preceding day from 00:01to 24:00 UTC. It was noted that EU regulations as well as Article 6.4 of the NCEM already support these requirements at present. EU inspectors stated they usually receive the information for the catch on the day of inspection verbally from masters. All Inspectors agreed that receiving the information verbally is not the preferred way forward as the information gathered may not be permitted to be used by all CP's in support of aninfringement.

As a result, Canada is introducing the following proposal to STACTIC for consideration.

Proposed Amendments

Article 28 – Monitoring of Catch

Recording of Catch and Stowage

1. For the purposes of monitoring catch, each fishing vessel shall utilize a fishing logbook, a production logbook and a stowage plan as defined below, to record fishing activities in the Regulatory Area:

Fishing Logbook

2. Each fishing vessel shall maintain a fishing logbook consistent with Annex II.A that:
   (a) accurately records catch of each tow/set related to the smallest geographical area for which a quota has been allocated;
   (b) indicates the disposition of the catch of each tow/set, including the amount (in kg, live weight) of each stock that is retained on board, discarded, offloaded, or transshipped during the current fishing trip; and
   (c) is retained on board for at least 12 months.

Production Logbook

3. Each fishing vessel shall:
   (a) maintain a production logbookthat:
      (i) accurately records the daily cumulative production for each species and product type in kg for the preceding day from 00:01 UTC until 24:00 UTC;
      (ii) relates the production of each species and product type to the smallest geographical area for which a quota has been allocated;
      (iii) lists the conversion factors used to convert production weight of each product type into live weight when recorded in the fishing logbook;

(iv) labels each entry in accordance with Article 27; and

(v) is retained on board for at least 12 months;

(b) and, when production has occurred on the day of an inspection, make the information related to any catch processed for that day available to an inspector upon request.

Stowage of Catch

4. Each vessel shall, with due regard for safety and navigational responsibilities of the master, stow all catch taken in the NAFO Regulatory Area separately from all catch taken outside the NAFO Regulatory Area, and ensure that such separation is clearly demarcated using plastic, plywood or netting.

5. Each fishing vessel shall:

(a) maintain a stowage plan that:

(i) clearly shows:

1. the location and quantity, expressed as product weight in kg, of each species within each fish hold;

2. the location in each hold of shrimp taken in Division 3L and in Division 3M that includes the quantity of shrimp in kg, by Division;

3. the top view of product within each fish hold;

(ii) is updated daily for the preceding day from 00:01 to 24:00 UTC; and

(iii) is retained on board for each day fished until the vessel has been unloaded completely;

(b) and, when stowage has occurred on the day of an inspection, make the information related to any catch stowed for that day available to an inspector upon request.

Annex 33. Amendment of MZZ in NAFO CEM Article 28.6.g

[STACTIC WP 19-30 Rev. 2 **now** COM Doc. 19-15]

Background

At the 2018 CAN/EU NAFO inspector's workshop, Canadian inspectors presented examples that illustrated how the MZZ species code was being misused, observations of inspectors indicate that catch amounts have been far exceeding the maxima of 100kg per species. After some discussion, inspectors came to the consensus that all reporting should be to the species level and recommended that the MZZ code be removed as an option for multi-species catch reporting.

As a result, Canada and the EU have drafted a joint proposal to realign the use of the MZZ code so that it is only used in accordance with Article 28.6.c where there is Nil catch retained and Nil discards.

Proposed Amendments

Article 28 – Monitoring of Catch

Catch Reporting

6. Every fishing vessel shall transmit electronically to its FMC the following reports in accordance with the format and the content prescribed for each type of report in Annex II.D and Annex II.F:

   (g) catch ~~of species listed in Annex I.C for which the total live weight on board is less than 100 kg, may be reported using the 3-alpha code MZZ (marine species not specified), except in the case of sharks. All sharks~~ shall be reported at the species level under their corresponding 3-alpha code presented in Annex I.C or if not contained in Annex I.C the FAO ASFIS List of Species for Fishery Statistics. ~~When species specific reporting is not possible, shark species shall be recorded as either large sharks (SHX) or dogfishes (DGX), as appropriate and in accordance with the 3- alpha codes presented in Annex I.C.~~ The estimated weight of sharks caught per haul or set shall also be recorded.

Annex 34. Revisions to Inspection Form (NAFO CEM Articles 36 and 37, Annex IV.B)

[STACTIC WP 19-31 **now** COM Doc. 19-16]

Background

At the 2018 CAN/EU NAFO inspectors' workshop, inspectors conducted a review of the Inspection form which was introduced in January 2018. During this review, a number of suggestions were put forward to make improvements and facilitate inspectors' use of the forms.

As a result, Canada and the EU have drafted the following proposal to amend the form and to adjust references to the form within the Articles 36 and 37 of the NAFO CEMs such that they no longer reference section numbers of the form, and can instead function as a consistent reference from version to version.

Proposed Amendments

Article 36 – Inspection Report and Follow-up

2. For the purpose of the inspection report:

(a) a fishing trip is considered current where the inspected vessel has on board catch harvested in the Regulatory Area during the trip;

(b) when comparing entries in the production logbook with entries in the fishing logbook the inspectors shall convert production weight into live weight guided by conversion factors used by the master;

(c) the inspectors shall:

(i) summarize from logbook records the vessel's catch in the Regulatory Area by species and by Division for the current fishing trip;

(ii) record summaries ~~in section 12 of the inspection report,~~ as well as differences between the recorded catch and their estimates of the catch onboard in the appropriate sections of the inspection report ~~14.1~~;

(iii) upon completion of the inspection, sign the inspection report and present the inspection report to the master for signature and comment, and to any witness who may wish to submit a statement;

(iv) immediately notify their competent authority and transmit to it the information and images within 24 hours, or at the earliest opportunity; and

(v) provide a copy of the report to the master, duly noting in the appropriate section of the inspection report any refusal by the master to acknowledge receipt.

Article 37 – Procedures Relating to Infringements

Duties of the Inspecting Contracting Party

2. The inspecting Contracting Party shall:

(a) within 24 hours,

(i) transmit to the competent authority of the flag State Contracting Party written notification of the infringement reported by its inspectors. The written notification shall:

(1) include the information entered in ~~point 15~~ the Infringements section of the inspection report, cite the relevant measures and describe in detail the basis for issuing the notice of infringement, and the evidence in support of the notice; and

(2) where possible, be accompanied by images of any gear, catch or other evidence related to the infringement referred to in paragraph 1.);

(ii) transmit a copy of the written notification to the Executive Secretary.

(b) within 10 days of the inspection vessel's return to port, post the at-sea inspection report to the NAFO MCS Website in PDF format.

Northwest Atlantic Fisheries Organization

REPORT OF INSPECTION
THE NORTHWEST ATLANTIC FISHERIES ORGANIZATION

(Inspector: Please use CAPITAL BLOCK LETTERS in BLACK PEN)

1. INSPECTION VESSEL

1.1 NAME		1.2 REGISTRATION	
1.3 International Radio Call Sign (IRCS)		1.4 Port of registry	

2. INSPECTORS (Note if Trainee)

NAME	CONTRACTING PARTY

3. INFORMATION ON VESSEL INSPECTED

Contracting Party and Port of Registry						
Vessel name				Radio Call Sign		
External number				IMO Number		
Master's Name						
Master's Address (only for infringement)						
Owner's name and address						
Inspection Vessel Time/Position	UTC	Lat		Long		Division
Inspected Vessel Time/Position	UTC	Lat		Long		

4. DATE OF LAST SEA INSPECTION

DATE	

5. DATE AND TIME OF CURRENT INSPECTION

DATE		TIME OF ARRIVAL ON BOARD	UTC

6. VERIFICATION

Vessel Documentation	Checked Y/N		
Certified Drawings or description of fish room and freezers kept on board	Checked Y/N	Date of Certification	
Daily Stowage Plan conforms to Article 28.5	Checked Y/N		

7. RECORDING OF FISHING EFFORT AND CATCHES

Fishing Logbook	Checked Y/N	Electronic / Paper
Production Logbook	Checked Y/N	Electronic / Paper
Are recordings made in accordance with Article 28 & Annex II.A	Checked Y/N	
If not, indicate the inaccurate or missing recording(s)		

8. OBSERVER INFORMATION

Is there a notified Observer present on the vessel	Y/N
Observer's name	
Observer Contracting Party	

9. MESH MEASUREMENT - IN MILLIMETERS

Gear Type	

Codend (inclusive of lengthener(s), if any)

																					Average Width	Legal Size
1st Net																						
2nd Net																						

Chafer - Samples of__________meshes

1st Net																						
2nd Net																						

Rest of Net

1st Net																						
2nd Net																						

10. SUMMARY OF CATCHES FROM LOGBOOKS FOR THE CURRENT FISHING TRIP

Days in NAFO RA						
Date of entry into RA/Division	Division	Fish species (3-alpha code)	Catch (metric tonnes)	Conversion factor(s)	Product Form(s)	Discards

11. RESULT OF INSPECTION OF FISH

11.1 **Catches Observed IN THE LAST TOW (if appropriate)**

Duration of the tow		Depth of tow	
Total tonnes	All species taken		Percentage of each

11.2 **Catches ON BOARD**

Inspectors Estimate (tonnes)	
Inspectors comments on how estimate was calculated:	

Labelling Correct?	Yes / No

12. RESULT OF INSPECTION OF FISH ON BOARD

12.1 Difference from Logbooks

Comment in the case of a difference between the inspector's estimates of the catches on board and the related summaries of catches from the logbooks, note this difference with the percentage

12.2 Infringements

CEM REFERENCE	NATURE OF INFRINGEMENTS
Comments:	

I acknowledge being informed about the alleged infringements and, if applicable, the placement of seals to secure evidence DATE: SIGNATURE of MASTER

13. COMMENTS AND OBSERVATIONS (additional pages can be added as necessary)

Documents inspected following an infringement
Comments, statements and/or observations by Inspector(s)
Statement of Master's witness(es)
Statements of Second Inspector or Witness

14. SIGNATURE OF INSPECTOR IN CHARGE

15. NAME AND SIGNATURE OF SECOND INSPECTOR OR WITNESS

16. NAME AND SIGNATURE OF MASTER'S WITNESS(ES)

17. DATES AND TIMES OF INSPECTION CONCLUSION AND OF DEPARTURE

INSPECTION CONCLUSION			
DATE		TIME	UTC

DEPARTURE			
DATE		TIME	UTC
POSITION	Lat	Long	

18. ACKNOWLEDGEMENT AND RECEIPT OF REPORT BY THE MASTER (additional pages can be added as necessary)

Comments by the Master of vessel
I, the undersigned, Master of the vessel....., hereby confirm that a copy of this report has been delivered to me on this date. My signature does not constitute acceptance of any part of the contents of the report. DATE SIGNATURE

Annex 35. Amendment of NAFO CEM Annex II.J

[STACTIC WP 19-44 **now** COM Doc. 19-17]

At the 2019 STACTIC Intersessional meeting the Chair of JAGDM presented STACTIC WP 19-19, a proposal originally presented in JAGDM to help clarify the number of characters in the Fishing Gear (GE) data element in Annex II.D of the NAFO CEM by changing the type from Char*3 to Char*5.

It was noted that the codes in footnote 1 of Annex II.J were no longer relevant so STACTIC agreed that the working paper be revised to delete footnote 1 in Annex II.J of the NAFO CEM. This working paper reflects the change as agreed to at the 2019 STACTIC Intersessional meeting.

Proposed Amendments

Annex II.J
Gear Codes

Gear Categories	Standard Abbreviation Code
…	
TRAWLS	
Bottom trawls	
Beam trawls	TBB
Otter trawls[1]	OTB
Pair trawls	PTB
Nephrops trawls	TBN
Shrimp trawls	TBS
Bottom trawls (not specified)	TB
…	

[1] ~~Fisheries agencies may indicate side and stern bottom and side and stern midwater trawls, as OTB-1 and OTB-2, and OTM-1 and OTM-2, respectively.~~

Renumber remaining footnotes accordingly.

Annex 36. Edits to the 2019 NAFO CEM flagged by the NAFO Secretariat for review

[STACTIC WP 19-45 Revised **now** COM Doc. 19-18]

Below are potential edits flagged by the NAFO Secretariat in STACTIC WP 19-45 that may require review by STACTIC or the Editorial Drafting Group (EDG).

STACTIC agreed that Article 30.20 be deleted from the NAFO CEM.

Article 30.20

~~*20. Any Contracting Party may elect to delay the application of Article 30 until 01 January 2020 but shall follow the provisions of Article 30 outlined in the 2018 NAFO CEM (COM Doc. 18-01). Those Contracting Parties electing to delay shall notify the Executive Secretary no later than 31 December 2018, and the Executive Secretary shall post this information to the MCS Website.*~~

STACTIC agreed that Annex II.H of the NAFO CEM be deleted and the remaining Annexes be renumbered accordingly.

~~**Annex II.H**~~

~~**Weekly Reports**~~

~~Data to be compiled by Executive Secretary and Forwarded to Inspection Parties~~

~~**Catch and Catch Rate Report (Weekly)**~~

~~**Vessel Type**~~	~~**Division**~~	~~**Species**~~	~~**Total Catch**~~	~~**Total Effort**~~	~~**Catch Rate**~~
~~With observer – masters~~					
~~With observer – observer~~					
~~Without observer~~					

~~**Bycatch Report (Weekly)**~~

~~**Vessel Type**~~	~~**Division**~~	~~**Species**~~	~~**Total Catch**~~	~~**Total Overall Catch**~~	~~**Bycatch %**~~
~~With observer – masters~~					
~~With observer – observer~~					
~~Without observer~~					

~~**Discards Report (Weekly)**~~

~~**Vessel Type**~~	~~**Division**~~	~~**Species**~~	~~**Total catch**~~	~~**Total Discards**~~	~~**Discard %**~~
~~With observer – masters~~					
~~With observer – observer~~					
~~Without observer~~					

Annex 37. Revised Template for NAFO CEM Annex II.M – Observer Report

[STACTIC WP 19-49 Revised **now** COM Doc. 19-19]

Annex II. M Standardized Observer Report Template

Part 1. A - Fishing Vessel – Fishing Trip and Observer Information

Fishing Vessel information	
Vessel Name	
Vessel Radio Call Sign	
Flag State	
External Registration number	
Vessel IMO number	
Vessel Length (m)	
Vessel Gross Tonnage	
Engine Power (indicate HP or KW)	
Vessel Type	
Total Frozen Hold Capacity (m^3)	
Fish Meal Hold Capacity (m^3)	
Other Hold Capacity (m^3)	

Trip information	
Fishing Master's Name	
Trip Number	
Number of Crew	
Directed Species	
Date of Entry into NRA (ENT)	
Date of Exit from NRA (EXI)	
NAFO Division/s visited	
Other Area/s visited	
Transhipment	
Port of Landing	

Observer information	
Observer's Name	
Observation Date Started	
Observation Date Ended	
Date of Report	

Comments

Part 1.B - Fishing Gear Information

Trawl Gear																				
Gear	Gear Type	Gear Make	Mesh Size (mm)												Measured by observer/ inspector /master	Date measured	Attachments	Grate Spacing	Straps (Describe)	Comments
			Wings			Body			Lengthening Piece			Codend								
			High	Low	Average	High	Low	Average	High	Low	Average	High	Low	Average						
1																				
2																				
3																				

	Longline									
Gear	Gear Type	Total Length	Hooks			Hook size	Buoys	Anchors	Main line material	Bait line material	Comments
			Number	Average spacing (m)	Hook type		Marked yes/no	Number			
1											
2											
3											
…											

Part 2. Catch and Effort Information by tow/set

Tow /Set	Gear type	STARTS*						FINISH*						Duration**	Species (FAO 3-alpha Species Code***)	Directed Species (yes or no)	Product Form	Observers Estimates		
		NAFO Division	Latitude (decimal)	Longitude (decimal)	Depth (m)	Time (UTC) (HHMM)	Date (YYYYMMDD)	NAFO Division	Latitude (decimal)	Longitude (decimal)	Depth (m)	Time (UTC) (HHMM)	Date (YYYYMMDD)					Observer Conversion Factor Used	Retained (kg live weight)	Discarded (kg live weight)
1																				
2																				
3																				
…																				

* In the case of trawl fisheries, start is the time at the end of setting, finish is the time at the start of gear retrieval. In any other case, start is the time at the start of gear setting, finish is the end of gear retrieval.

** Decimal hours. In the case of trawl fisheries, the time from the end of setting to the start of gear retrieval. In any other case, the time from the start of gear setting to the end of retrieval.

*** Including VMEs indicators

Vessel Fishing Logbook			Vessel Production Logbook	Discrepancy Identified? (yes/no)	Discrepancy Details	Comments
Vessel Conversion Factor Used	Retained (kg live weight)	Discarded (kg live weight)	Retained (kg)			

Part 3. Compliance Information

Enter observation on:

Observations	Details
Any instance of obstruction, intimidation, interference with or otherwise prevention of the observer from performing his/her duties.	
Discrepancies between stowage and stowage plan (As Art 30.14.b)	
Functioning of the satellite tracking device (report all interruptions, interference and malfunctions)	
Transshipments (report all)	
Undersized fish catches	
At-Sea Inspections (report dates, times and any other observation)	
Any other observation	

Part 4. Effort and Catch Summary

4A. Effort Summary

Effort Summary Table									
NAFO Division	Gear Type	Directed Species*	Date		Number of Tow/sets	Depth (m)		Hours fished**	Fishing Days***
			Start	Finish		Minimum	Maximum		

* As per CEM Article 5.2

** In the case of trawl fisheries, fishing time is the time from the end of setting to the start of gear retrieval. In any other case, fishing time is the time from the start of gear setting to the end of retrieval. Summed haul duration for all hauls in the listed division, by gear type and directed species

*** As per CEM Article 1.6

Comments	
1	On Fishing activity by Division
2	On Data Communication
3	On Mesh sizes
4	Other issues

4B. Catch Summary

Trip Catch Summary (catch by Division and Species)							
		Observer Estimates			Recorded in the Fishing Logbook		
Species (FAO 3-alpha Species Code	Division	Retained (kg live weight)	Discarded (kg live weight)	Total (kg live weight)	Retained (kg live weight)	Discarded (kg live weight)	Total (kg live weight)
Total							

Comments	
1	On composition of catch and sizes
2	On discrepancies with the fishing logbook entries
3	On discards
4	Other issues

Part 5. Catch of Greenland Shark Information by Haul

Tow/Set Number	Total Number of Sharks	Shark Number	Estimated Weight (kg live weight)	Length	Length Measured or Estimated?	Sex	Catch Disposition (Alive, Dead, Unknown)	Comments

Part 6. Length Frequency Form

Observer's Name					
Vessel Call Sign					
Trip Number					

Year					
Month					
Day					
Gear number					
Tow/Set Number					
Species 3 alpha code					
Catch weight (kg live weight)					
Sample Type (discard, retained, mix)					

Sample Weight in kg live weight					
Min Size					
Max Size					
Sex					
Total Number of Samples (n=)					
Meas. Convention (TL, SL, FL, etc.)					
Measure Type					
Unit (mm or cm)					
Comments					

Size between	Number	Number	Number	Number	Number
9.5-10.0					
10.0-10.5					
10.5-11.0					
11.0-11.5					
11.5-12.0					
12.0-12.5					
12.5-13.0					
…					
…					
…					
…					
97.0-97.5					
97.5-98.0					
98.0-98.5					
98.5-99.0					
99.0-99.5					
99.5-100.0					
100.0-100.5					
…					

Annex 38. Observer tasks related to sharks

[STACTIC 19-50 **now** COM Doc. 19-20]

Background

All observer duties should appear in Article 30.14 of the CEM.

It is proposed to move the observer task related to sharks in Article 12.1 (b) to Article 30.14.

Proposal

The provision in Article 12.1 (b) is moved to Article 30.14 as a new sub-paragraph (j), with the following wording:

(j) for all observed hauls that contain Greenland shark, ~~observers shall~~ record the number, estimated weight and measured length (estimated length if measured length is not possible) per haul or set, the sex, and catch disposition (alive, dead, unknown) of each individual Greenland shark.

Annex 39. Time of closure of RED 3M Fishery

[STACTIC WP 19-52 Revised **now** COM Doc. 19-21]

Background

As per Article 5.5 (d) and (e) of the CEM, the Contracting Parties concerned shall close their directed fisheries for RED 3M on the dates determined and communicated by the Executive Secretary in accordance with the provisions of Article 5.15 (e).

The text in Article 5.5 (d) and (e) does not specify at what time of each determined date the vessels must effectively stop their RED 3M fishery, creating confusion on compliance.

It is proposed to modify Article 5.5 (d) and (e) by stating that the effective closure of the RED 3M fishery starts at 24.00 UHT of the day prior to the date determined by the Executive Secretary.

Proposal

The text in Article 5 (d) and (e) is modified as follows:

5. Each Contracting Party shall:

…

(d) close its directed fishery for 3M redfish between 24:00 UTC of the day ~~prior to the date~~ the accumulated reported catch is estimated to reach 50% of the 3M redfish TAC, as notified in accordance with paragraph 15 (e) of this Article, and 1 July;

(e) close its directed fishery for 3M redfish at 24:00 UTC of the day ~~prior to on the date~~ the accumulated reported catch is estimated to reach 100% of the 3M redfish TAC, as notified in accordance with paragraph 15 (e) of this Article;

Annex 40. MSC website – Amendments to Ensure Open Access of all Information to all CPS, and to Define Procedure for Posting of Information via the NAFO Secretariat

[STACTIC WP 19-53 Revised **now** COM Doc. 19-22]

Background

Through recognition of the role of all Contracting Parties in ensuring control and enforcement of the NAFO rules, whether acting as a flag state, port state or participating in at-sea inspection, STACTIC agreed at its 2018 Intersessional Meeting that the EU would draft a proposal to allow all Contracting Parties equal access to the information held on the MCS Website.

At the 2018 STACTIC Annual meeting, it was agreed that *'the EDG would meet in advance of the 2019 Intersessional Meeting to review the access rights outlined in the NAFO CEM to the MCS Website to at-sea and in port inspectors to ensure that all inspectors have access to all information necessary to facilitate their inspections'.*

Considering the discussions held at the EDG in March 2019, it is proposed to:

1. Ensure that the procedure for posting information to the MCS website is clarified and consistent throughout the CEM. In all cases, Contracting Parties shall send the information to the Executive Secretary, who shall post it immediately to the MCS website. The current references to 'computer readable format' are considered unnecessary and should thus be removed.

2. Ensure that the information stored in the MCS website is made available to all Contracting Parties.

3. Restrict the access to the MCS website to persons who have been nominated by the STACTIC head of delegation of their Contracting Party, and attributed the necessary credentials on an annual basis by the NAFO Secretariat, in accordance with a new procedure proposed in STACTIC WP 19-54.

4. Subject access to the MCS website to the acceptance of confidentiality rules specified in a new disclaimer when entering the website, as proposed in STACTIC WP 19-55.

The table below identifies the editorial modifications necessary in the 2019 NAFO CEM to implement the above points 1 and 2. The nomination procedure in point 3 and the disclaimer in point 4 are subject to separate proposals.

Proposal

Element	Article	2019 CEM suggested text changes	Comments
CP intention to fish on others quota	5.3.e	For stocks identified in Annex I.A or I.B caught within the Regulatory Area by vessels entitled to fly its flag, each Contracting Party shall … ~~post to the NAFO MCS Website~~ notify the Executive Secretary of the names of vessels that intend to fish the "Others" quota at least 48 hours in advance of each entry, and after a minimum of 48 hours of absence from the Regulatory Area	
Duties of the ES	5.15.i	The Executive Secretary ~~ensures that to the NAFO MCS Website~~ posts without delay the information notified in accordance with subparagraph 5.3 (e) to the NAFO MCS website ~~is automatically transmitted to Contracting Parties with an inspection presence in the Regulatory Area~~ and ensures that it is made available to all Contracting Parties	Access is extended to all CP's

Element	Article	2019 CEM suggested text changes	Comments
Designated Ports	10.4.c	Each Contracting Party shall ~~post to the NAFO MCS Website, in PDF format,~~ notify the Executive Secretary the name of every port it has so designated. Any subsequent changes to the list shall be ~~posted~~ notified in replacement of the previous one no less than fifteen days before the change comes into effect	
Port Inspections report	10.4.e	Each Contracting Party shall inspect each landing of Greenland halibut in its ports and prepare an inspection report in the format prescribed in Annex IV.C, which it ~~posts to the NAFO MCS Website, in PDF format, submit to~~ submits to the Executive Secretary within 14 working days from the date on which the inspection was completed	
Duties of the ES	10.7.b	The Executive Secretary … ~~ensures that~~ posts without delay the list of designated ports ~~posted~~ notified by the Contracting Party for the purpose of this Article as well as any subsequent changes ~~is automatically~~ to the NAFO MCS website and ensures that it is made available to all Contracting Parties	
	10.7.c	The Executive Secretary … posts without delay the port inspection report~~s~~ submitted in accordance with subparagraph 4(e) ~~ensures that any port inspection report posted~~ to the NAFO MCS Website ~~in accordance with subparagraph 4(e) is transmitted to any Contracting Party that requests it~~ and ensures that it is made available to all Contracting parties	

Element	Article	2019 CEM suggested text changes	Comments
Vessel NOT register	25.13.a	Subject to the appropriate confidentiality requirements, the Executive Secretary … posts the register referred to in paragraph 12, to the NAFO MCS Website and ensures that it is ~~automatically~~ made available to all Contracting Parties	
Duties of the ES	25.13.a	Subject to the appropriate confidentiality requirements, the Executive Secretary … posts the register referred to in paragraph 12, to the NAFO MCS Website and ensures that it is ~~automatically~~ made available to all Contracting	

Element	Article	2019 CEM suggested text changes	Comments
		Parties	
	26.14	The Executive Secretary circulates without delay to all Contracting Parties and posts to the NAFO MCS Website the information notified in accordance with paragraph 9 and ensures that the catch and bycatch notified in accordance with paragraph 11 is attributed to the chartering Contracting Party	

Element	Article	2019 CEM suggested text changes	Comments
Duties of the ES	28.9.a	The Executive Secretary … assigns sequential numbers to the reports of each Contracting Party listed in paragraph 6, including any cancellation reports, then posts them to the NAFO MCS Website and ensures that they are ~~automatically transmitted~~ made available ~~in a computer readable format~~ to all Contracting Parties ~~with an inspection presence in the Regulatory Area~~	Access is extended to all CP's
	28.9.b	The Executive Secretary … ensures that each port of landing report (POR) posted to the NAFO MCS Website is automatically transmitted to the flag State Contracting Party of the receiving vessel ~~and, in conformity with Annex II.B, to all CPs~~	

Element	Article	2019 CEM suggested text changes	Comments
Duties of the ES	29.10.b	The Executive Secretary … posts as soon as possible the VMS position data listed in paragraph 2 (a) to the NAFO MCS Website and ensures that they are ~~automatically~~ made available ~~in a computer readable format~~ to all Contracting Parties ~~with an inspection presence in the Regulatory Area~~	Access is extended to all CP

Element	Article	2019 CEM suggested text changes	Comments
Infringement on vessels not carrying an observer	30.6.c	By way of derogation … the flag State Contracting Party shall, for vessels not carrying an observer … physically inspect~~s~~ … each landing in its ports by the vessel … If any infringement to the CEM is detected and confirmed, it (*the flag State CP*) shall prepare a report … (PSC3). The PSC 3 shall be ~~uploaded to the NAFO MCS Website~~ submitted to the Executive Secretary~~, in computer readable format,~~ as soon as possible after the infringement has been confirmed	
List of vessels not carrying an observer	30.6.d	By way of derogation … the flag State Contracting Party shall, for vessels not carrying an observer … as soon as possible in advance of the fishing trip, ~~posts to the NAFO MCS website, in PDF format~~ notify the Executive Secretary, … the name, IMO number, and International Radio Call sign of the vessel, and the factors that support the decision to grant the derogation to the 100% coverage	
Comparison of relevant data	30.6.e	By way of derogation … the flag State Contracting Party shall, for vessels not carrying an observer … submit~~s~~ to the Executive Secretary by 1 March each year … a report containing a comparison of all relevant catch and fishing	

Element	Article	2019 CEM suggested text changes	Comments
		activities showing the difference between the trips where the vessel had an observer on board and those where the observer was withdrawn	
List of observers	30.8.a	Each Contracting Party shall … each year, before its vessels start fishing in the NAFO RA, ~~post to the MCS Website notify~~submit to the Executive Secretary an ongoing list of observers ….	
Offense from or to the observer	30.9.c	Upon the receipt of an OBR from an observer reporting discrepancies … a Contracting Party shall … create a report on follow-up actions and ~~post~~ submit it ~~in a computer readable format~~ to the ~~NAFO MCS website~~Executive Secretary	
Observer deployment	30.10.a	Each Contracting Party shall ~~provide to~~submit to~~notify~~ the Executive Secretary … no later than 24 hours in advance of an observer's deployment onboard a fishing vessel~~, by posting to the MCS Website,~~ the name of the fishing vessel and International Radio Call Sign, together with the name and ID (if applicable) of the observer concerned	
Daily OBR	30.10.b	Each Contracting Party shall ~~provide to~~ submit to the Executive Secretary … ~~electronically and~~ without delay following its receipt, the daily OBR report referred to in paragraph 14 (e)	
Observer report	30.10.c	Each Contracting Party shall ~~provide to~~ submit to the Executive Secretary … within 30 days following the arrival of the vessel in port, the observer trip report referred to in paragraph 14	
Annual compliance report	30.10.d	Each Contracting Party shall ~~provide to~~ submit to the Executive Secretary … by 1 March each year for the previous calendar year, a report on its compliance with the obligations outlined in this Article.	
Duties of the ES	30.18.a	The Executive Secretary ~~shall~~ posts without delay the information received in accordance with subparagraphs 6, 8, 9 and 10 to the NAFO MCS website and ensures it is made ~~make~~ available without delay to all Contracting Parties, ~~via the NAFO MCS website~~ for enforcement purposes only~~, without delay … a copy of the observer trip report in the format of Annex II.M; the annual list of observers and observed vessels; the name of fishing vessel together with the name and ID (if applicable) of the observer concerned … ; any observer report of a discrepancy … and the daily OBR~~.	

Element	Article	2019 CEM suggested text changes	Comments
Competent authority	32.1.a	Each Contracting Party shall, no later than 1 December each year, ~~post to the NAFO MCS Website, in PDF format~~ notify the Executive Secretary … of the contact information of the competent authority which shall act as the contact point for the purpose of immediate notification of infringements in the Regulatory Area, and any subsequent changes to this information, no less than 15 days before the change comes into effect	

Inspectors and Inspection means	32.1.b	Each Contracting Party shall, no later than 1 December each year, ~~post to the NAFO MCS Website~~ notify the Executive Secretary … of the names of inspectors and inspector trainees and the name, radio call sign and communication contact information of each inspection platform it has assigned to the Scheme. It shall notify changes to the particulars so notified, whenever possible, no less than 60 days in advance	
Duties of the ES	32.3.a	The Executive Secretary … ~~ensures that~~ posts without delay the information referred to in paragraph 1 to the NAFO MCS website and ensures it is ~~automatically~~ made available to all Contracting Parties	

Element	Article	2019 CEM suggested text changes	Comments
Surveillance Reports	33.2.a	The inspecting Contracting Party shall submit without delay … ~~post~~ to the Executive Secretary the Surveillance report ~~in PDF format to the NAFO MCS Website~~ for transmission to the flag State Contracting Party of the vessel	
Investigation Report	33.3.b	Each flag State Contracting Party shall … ~~post~~ submit without delay to the Executive Secretary the investigation report ~~in PDF format to the NAFO MCS Website~~	
Duties of the ES	33.4.a	The Executive Secretary posts without delay to the NAFO MCS website ~~ensures that~~ … the Surveillance Reports, including any image recorded, referred to in paragraph 1 and ensures that they are automatically transmitted to the flag State Contracting Party of the vessel concerned ….	
	33.4.b	The Executive Secretary posts without delay to the NAFO MCS website ~~ensures that~~ … the investigation report referred to in paragraph 3 and ensures that it is ~~automatically~~ transmitted to the Contracting Party that has generated the Surveillance Report	

Element	Article	2019 CEM suggested text changes	Comments
At-sea Inspection Reports	36.3.a	The inspecting Contracting Party shall …~~post~~ submit the at-sea inspection report ~~in PDF format to the NAFO MCS Website~~ to the Executive Secretary, if possible within 30 days of the inspection	
Duties of the ES	36.4.a	The Executive Secretary posts without delay ~~ensures that~~ the at-sea inspection reports referred to in paragraph 3 (a) to the NAFO MCS website and ensures they are … ~~automatically~~ made available to ~~the flag State Contracting Party of the inspected vessel and to the CP participating in the Scheme~~ all Contracting parties; and	Access is extended to all CPs
	36.4.b	The Executive Secretary posts without delay ~~ensures that~~ the at-sea inspection reports referred to in paragraph 3 (a) to the NAFO MCS website and ensures they are … ~~transmitted~~ made available ~~to the port State Contracting Party, on demand of that CP, should the flag State Contracting Party be different, and~~ to all Contracting parties	Access is extended to all CPs

Element	Article	2019 CEM suggested text changes	Comments
Reported infringement	37.2.b	The inspecting Contracting Party shall … within 10 days of the inspection vessel's return to port, ~~post~~ submit to the Executive Secretary the at-sea inspection report consistent with Annex IV.B ~~to the NAFO MCS Website in PDF format~~	
Duties of the ES	37.6	~~Upon a request from a CP receiving a vessel for landing to which an infringement has been issued, t~~The Executive Secretary posts ~~will transmit to that CP~~ without delay ~~a copy of~~ the report of at-sea inspection ~~consistent with Annex IV.B~~ to the NAFO MCS website and ensures it is made available to all Contracting Parties	Access is extended to all CP

Element	Article	2019 CEM suggested text changes	Comments
Measures taken against a vessel	39.4	The flag State Contracting Party and the port State Contracting Party shall immediately notify the Executive Secretary of … enforcement and progress reports	
Duties of the ES	39.5	The Executive Secretary posts without delay the final outcome report referred to in paragraph 4 (c) ~~on~~to the NAFO MCS Website and ensures that it is made available to ~~any~~ all Contracting Parties~~, on request~~	

Element	Article	2019 CEM suggested text changes	Comments
Designated ports	43.1	The port State Contracting Party shall ~~post to the NAFO MCS Website, in PDF format~~ notify the Executive Secretary of a list of designated ports …	
Prior request period	43.2	The port State Contracting Party shall ~~post submit to~~notify the prior request period to the ~~NAFO MCS Website, in PDF format~~ Executive Secretary …	
Competent authority	43.3	The port State Contracting Party shall ~~post to the NAFO MCS Website, in PDF format,submit~~notify ~~to~~ the Executive Secretary of the competent authority name and its contact information …	
PSC 1and PSC 2 Competent authority	44.3	The flag State Contracting Party shall ~~post on the NAFO MCS website in PDF format submit to~~notify the Executive Secretary of the contact information of the competent authority, …	
PSC1 and PSC2 Transmission	43.8	The port State Contracting Party shall … ~~post~~ submit to the Executive Secretary (the copy PSC1 and PSC2) ~~to the NAFO MCS website, in PDF format,~~ without delay	
PSC1 and PSC2 Cancellation	43.9	.. the port State Contracting Party shall ~~post~~ without delay submit to the Executive Secretary a copy of the cancelled PSC1 and PSC2 ~~to the NAFO MCS website, for automatic transmission to the flag State Contracting Party.~~	

PSC 3	43.17	The port State Contracting Party shall without delay ~~post~~ submit to the Executive Secretary a copy of each port State Control inspection report ~~to the NAFO MCS Website, in PDF format, for automatic transmission to the flag State Contracting Party and to the flag State of any vessel that transhipped catch to the inspected fishing vessel.~~	
Duties of the ES	46.1.a 46.1.b 46.1.c 46.1.d	The Executive Secretary posts without delay ~~ensures that~~ the following information to the MCS website and ensures it is ~~automatically~~ made available to all Contracting Parties… (a) the list of designated ports and any changes thereto; (b) the prior request periods established by each port State Contracting Party ; (c) the information about the designated competent authorities in each flag State Contracting Party; d) copies of all PSC 1 and 2 forms transmitted by port State Contracting Party.	
	46.2	The Executive Secretary posts without delay ~~ensures that~~ the port inspection reports referred to in Article 43.16 (PSC 3 form) to the NAFO MCS website and ensures they are ~~automatically~~ made available to ~~the flag State~~all Contracting Parties~~y of the inspected vessel; to any other Contracting Party; and to the flag State of any vessel that transhipped catch to the inspected fishing vessel.~~	

Annex 41. Procedure for defining the process to grant access to the MCS Website to individuals within Contracting Parties

[STACTIC WP 19-54 Revised **now** COM Doc. 19-23]

Background

Considering the sensitive and confidential nature of the information available on the MCS website, in order to ensure that access is appropriate and managed effectively, the definition of a procedure to grant and obtain access is required for Contracting Parties and the NAFO Secretariat to follow.

The proposed process maintains the current practice that it is the responsibility of the Contracting Parties to identify, using internal national procedures, those individuals within their administrations for whom access to the MCS website is required and appropriate. The Contracting Party should then notify the NAFO Secretariat of those persons who shall then administer that access. To ensure that administration of the access is streamlined, all those who are granted access to the website shall have equal ability to read information.

In accordance with STACTIC WP 19-53, the NAFO Secretariat will be exclusively responsible for uploading all information on the MCS Website.

It is proposed to modify the CEM as follows:

- to insert in Article 1 a definition of the MCS Website
- to create an Annex II.XX detailing the procedure to be followed by the Contracting Parties and the NAFO Secretariat to grant access to individuals

Proposal

1. To insert in Article a definition of the MCS Website

Article 1 – New definition

"MCS Website" means the NAFO Monitoring, Control and Surveillance Website that contains information relevant for at-sea and in-port inspections. The procedure for granting access to this website to individuals within Contracting Parties is outlined in Annex II.XX.

2. To create the following Annex II.XX.

Annex II.XX

Procedure for granting access to individuals within Contracting Parties to the MCS Website

1. The address for the MCS Website is https://mcs.nafo.int/

2. The NAFO Secretariat is responsible for the administration of the NAFO MCS Website, including the uploading of all information to it, and the delivery of the necessary credentials to accede the MCS Website.

3. The purpose of the website is to serve as a tool for sharing information which is often of a confidential and sensitive nature, to facilitate control activities and promote compliance with the NAFO CEM.

4. Within a Contracting Party the individuals to whom access shall be granted to the MCS Website shall be determined as appropriate, bearing the purpose of the website in mind, by the official designated by the Contracting Party on an annual basis.

5. The Contracting Party shall submit a list of those individuals (which includes names, administration for which they work, professional title and email address) to the NAFO Secretariat on an annual basis by the 31st December, or as soon as possible if any changes are to be made, to enable access to be granted for the following year.

6. The NAFO Secretariat shall ensure those individuals are granted access to the MCS website, and shall provide login credentials. All those who are granted access shall have equal ability to read information contained in the MCS Website.

7. Individual login credentials will expire automatically on the 31st December of the year for which access was granted.

Annex 42. Distribution of Notification of Infringements (NAFO CEM Article 37.5)

[STACTIC WP 19-56 **now** COM Doc. 19-24]

Background

At the 2018 NAFO Intersessional meeting in Halifax, Canada was tasked with developing a proposal to amend Article 37.4 to allow the Executive Secretary to more broadly distribute notification of infringements to Contracting Parties, which resulted in the presentation of STACTIC WP 18-35, "Distribution of Notification of Infringements," at the 2018 Annual meeting. Ultimately, STACTIC WP 18-35 Rev. 2 was adopted. The intent of the new measure was "to ensure that any port State Contracting Party receiving a vessel for landing that has been issued an infringement is notified and has an opportunity to receive the written notification related to an infringement in advance of the vessel's arrival in port." In April of 2019, notification of an infringement was distributed beyond the competent authorities of all Contracting Parties. Although this was consistent with the newly adopted text, it was contrary to the intended purpose. As a result, Canada committed at the 2019 Intersessional meeting to prepare the following amendment to the text to bring the content of Article 37 in line with the original intent.

Proposed Amendments

Article 37 - Procedures Relating to Infringements

Duties of the Executive Secretary

4. The Executive Secretary transmits without delay to the other Contracting Parties participating in the Scheme the written notification of the infringement including a copy of the report of inspection consistent with Annex IV.B.

5. The Executive Secretary transmits electronic notification that an infringement has been issued to a particular vessel without delay to the competent authority of each Contracting Party identified under Article 32.1.a. ~~all Contracting Parties electronic notification that an infringement has been issued to a particular vessel~~.

6. Upon a request from a Contracting Party receiving a vessel for landing to which an infringement has been issued, the Executive Secretary will transmit to that Contracting Party without delay a copy of the report of inspection consistent with Annex IV.B.

Annex 43. Content Adjustments to Add the RJ field to COX report (NAFO CEM Annex II.F.6)

[STACTIC WP 19-57 Revised **now** COM Doc. 19-25]

Background

At the 2019 Intersessional meeting of STACTIC, Canada presented STACTIC WP 19-34, a discussion paper highlighting that there is currently no requirement to report discards in the Catch on Exit report (COX). However, masters are required to include the vessel's catch since their last daily catch report (CAT). Without the ability to include the discards field (RJ) in the COX, an additional CAT must be submitted the following day.

To provide a more efficient process, Canada, in consultation with the Secretariat, proposes that the RJ field be added to the COX report, and that Article 28.6 be adjusted so that a CAT will not be mandatory for the last day fished in the NRA.

Proposed Amendments/Format:

Article 28

6. Every fishing vessel shall transmit electronically to its FMC the following reports in accordance with the format and the content prescribed for each type of report in Annex II.D and Annex II.F:

   (a) Catch on entry (COE): quantity of catch on board by species upon entry into the Regulatory Area, transmitted at least six (6) hours in advance of the vessel's entry;

   (b) catch on exit (COX): quantity of catch onboard by species upon exit from the Regulatory Area transmitted at least six (6) hours in advance of the vessel's exit;

   (c) catch report (CAT): quantity of catch retained and quantity discarded by species for the day preceding the report, by Division, including nil catch returns, sent daily before 12:00 UTC unless otherwise submitted in a COX report. Nil catch retained and nil discards of all species shall be reported using the 3 alpha code MZZ (marine species not specified) and quantity as "0" as the following examples demonstrate (//CA/MZZ 0// and //RJ/MZZ 0//);

   (d) catch on board (COB): for any vessel fishing shrimp in Division 3L, prior to entry or exit from Division 3L, transmitted one hour prior to crossing the boundary of Division 3L;

   (e) transhipment (TRA):

      (i) by donor vessel, transmitted at least twenty-four (24) hours in advance of the transhipment; and

      (ii) by receiving vessel, no later than one (1) hour after the transhipment.

   (f) port of landing (POR): by a vessel that has received a transhipment at least twenty-four

   (g) (24) hours in advance of any landing;

   (h) catch of species listed in Annex I.C for which the total live weight on board is less than 100 kg, may be reported using the 3-alpha code MZZ (marine species not specified), except in the case of sharks. All sharks shall be reported at the species level under their corresponding 3-alpha code presented in Annex I.C or if not contained in Annex I.C the FAO ASFIS List of Species for Fishery Statistics. When species specific reporting is not possible, shark species shall be recorded as either large sharks (SHX) or dogfishes (DGX), as appropriate and in accordance with the 3-

alpha codes presented in Annex I.C. The estimated weight of sharks caught per haul or set shall also be recorded.

These reports may be cancelled using the format specified in Annex II.F(8). If any of these reports is subject to correction, a new report must be sent without delay after Cancel report within time limits set out in this paragraph.

In case the flag State FMC accepts the cancellation of a report from its vessels it shall communicate it to the Executive Secretary without delay.

Annex II.F

6) "Catch on EXIT" Report

Format specifications when sending reports from FMC to NAFO (XNW) see also Annex II.D.A, II.D.B, II.D.C and II.D.D.1

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)
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; "COX" as Catch on Exit report
Sequence Number	SQ	M	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Master Name	MA	O	Name of master of vessel
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude	LA	O1	Activity detail; Latitude at time of transmission from the vessel
Longitude	LO	O1	Activity detail; Longitude at time of transmission from the vessel
Relevant Area	RA	M	NAFO area from which the vessel is about to exit

Catch species live weight	CA	M	Activity detail; 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/speciesspaceweight spacespeciesspaceweightspacespeies spaceweight//
Discarding species live weight	RJ	M	Activity detail; Catch discarded by species and by Division since last CAT report, in kg rounded to the nearest 100 kg. 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.//RJ/ speciesspaceweightspacespecies spaceweightspacespeciesspaceweight//
Catch species live weight	OB	M	Activity detail; Total quantity by species on board rounded to the nearest 100 kg, upon exit from the RA. 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/speciesspaceweightspacespecies spaceweightspacespecies spaceweight//
Days Fished	DF	O	Activity detail; number of fishing days in the Regulatory Area
Date	DA	M	Message detail; UTC date of transmission from the vessel
Time	TI	M	Message detail; UTC time of transmission from the vessel
End of record	ER	M	System detail; indicates end of the record

[1] Optional if the vessel is subject to satellite tracking in accordance with Article 29.1.

Annex 44. Adjustments to the OBR Report in NAFO CEM Annex II.D.c and II.G

[STACTIC WP 19-58 Revised **now** COM Doc. 19-26]

Background

With the requirement of a daily OBR in 2019, a number of items arose requiring clarification, which were highlighted in STACTIC WP 19-12. The review noted three points requiring clarification: the text in footnote 6 of Annex II.G contradicts the definition in Annex II.D, there is a lack of clarity surrounding what is to be reported in the Undersize field, and the Production field of the report does not link product codes to species or production amounts.

In addition to those items, the Canadian FMC has also detected two issues:

1. that the Gear Type, Mesh Size, Directed Species, and Production fields are mandatory, but cannot be properly completed if the vessel does not conduct any tows/sets or produce on a given day, and

2. that the language surrounding Observers "*approving*" hails and logbooks in footnotes 2 and 3 is outside the scope of Observer duties outlined in Article 30.

To this end, Canada, in consultation with the Secretariat, proposes the amendments below, to address those points requiring clarification, and to ensure that the OBR report is clear, easily completed, and of greater utility. Footnote 6 is removed, and the requirements for the Directed Species field are updated to align with the definition in Annex II.D. A new footnote 6 is added to the Undersize field to clarify that it should be used to report whatever portion of the reported catch was undersized. The Production field is removed, as the NAF format is not designed to process the trios of information (species, product code, and product weight) which would be required for the field to have utility. Footnote 1 is applied to the Gear Type, Mesh Size, Directed Species, and Production fields, making the fields mandatory only if relevant. And the language in footnotes 2 and 3 is adjusted so that the observer is confirming completion of the logbook and transmission of hails in accordance with the NCEMs.

Proposed Amendments/Format

Annex II.D

C. Format for electronic exchange of fisheries monitoring information (The North Atlantic Format)

Category	Data Element	Field code	Type	Contents	Definitions
Activity Details	Latitude	LA	Char*5	NDDMM (WGS-84)	e.g. //LA/N6235 = 62°35' North
	Longitude	LO	Char*6	E/WDDDMM (WGS-84)	e.g. //LO/W02134 = 21°34' West
	Latitude (decimal)	LT	Char*7	+/-DD.ddd	Value negative if latitude is in the southern hemisphere1 (WGS84)
	Longitude (decimal)	LG	Char*8	+/-DDD.ddd	Value negative if longitude is in the western hemisphere1 (WGS84)
	Trip Number	TN	Num*3	001-999	Number of the fishing trip in current year
	Catch Species Quantity	CA	Char*3 Num*7	FAO species code 0-9999999	Daily catch by species and by Division, retained on board, in kilograms live weight
	Quantity onboard Species Quantity	OB	Char*3 Num*7	FAO species code 0-9999999	Total quantity by species on board the vessel at the moment of sending the hail message concerned in kilograms live weight
	Discard Species Quantity	RJ	Char*3 Num*7	FAO species code 0 - 9999999	Catch discarded by species and by Division in kilograms live weight
	Undersize Species Quantity	US	Char*3 Num*7	FAO species code 0 - 9999999	Undersize catch by species and by Division in kilograms live weight
	Transferred species Species Quantity	KG	Char*3 Num*7	FAO species code 0-9999999	Information concerning the quantities transferred between vessels by species in kilograms live weight rounded to the nearest 100 Kg. whilst operating in the R.A.
	Relevant Area	RA	Char*6	ICES/NAFO Codes	Code for the relevant fishing area
	Directed Species	DS	Char*3	FAO species codes	Code for the species for which the vessel directed as per Article 5.2~~the vessel is targeting~~. Allow for several species, separated by a space. e.g. //DS/species species species//
	Observer on board	OO	Char*1	Y or N	Presence of a compliance observer on board
	Transhipped From	TF	Char*7	IRCS Code	International Radio Call Sign of the donor vessel

	Transhipped To	TT	Char*7	IRCS Code	International Radio Call Sign of the receiving vessel
	Master Name	MA	Char*30		Name of the vessels master
	Coastal State	CS	Char*3	ISO-3166 3 Alpha Code	Coastal State of Port of Landing
	Predicted Date	PD	Num*8	YYYYMMDD	Estimated date UTC when the master intends to be in port
	Predicted Time	PT	Num*4	HHMM	Estimated time UTC when the master intends to be in port
	Port Name	PO	Char*20	Name of the actual port of landing	
	Speed	SP	Num*3	Knots*10	e.g.//SP/105 = 10.5 knots
	Course	CO	Num*3	360° degree scale	e.g. //CO/270 = 270
	Chartering Flag Catches	CH	Char*3	ISO-3166	Flag of Chartering Contracting Party
	Area of Entry	AE	Char*6	ICES/NAFO Codes	NAFO Division entering into
	Days fished	DF	Num*3	1-365	Number of days the vessel spent in the fishing zone during the trip.
	Apparent Infringement	AF	Char*1	Y or N	For onboard observer
	Mesh Size	ME	Num*3	0 – 999	Average mesh size in millimetres
	~~Production~~	~~PR~~	~~Char*3~~	~~Product Form Codes~~	~~Code for the production Annex II.K~~
	Logbook	LB	Char*1	Y or N	For onboard observer to ~~approve~~ confirm the entries in the vessels logbook
	Hails	HA	Char*1	Y or N	For onboard observer to ~~approve~~ confirm the hails sent from the vessel
	Observer Name	ON	Char*30	Text	Name of the onboard observer
	Free Text	MS	Char*255	Text	Activity detail; for further comments by observer

Annex II.G Observer Report

Data Element	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
Sequence Number	SQ	M	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, "**OBR**" as Observer report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Fishing Gear	GE	M[1]	Activity detail; FAO code for fishing gear
Directed Species[6]	DS	M[1]	Activity detail; FAO species code for each directed species since the last OBR report
Mesh Size	ME	M[1]	Activity detail; average mesh size in millimetres
Relevant Area	RA	M	Activity detail; NAFO Division
Daily Catches species live weight	CA	M	Activity detail; catch retained on board by species and by Division since last OBR 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/speciesspaceweight spacespeciesspaceweightspacespeies spaceweight//
Discarding species live weight	RJ	M[1]	Activity detail; Catch discarded by species and by Division since last OBR report, in kg rounded to the nearest 100 kg. 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.//RJ/ speciesspaceweightspacespecies spaceweightspacespeciesspaceweight//
Undersize[6] species live weight	US	M[1]	Activity detail; Undersize catch by species and by Division since last OBR report, in kg rounded to the nearest 100 kg. 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.//US/ speciesspaceweightspacespecies spaceweightspacespeciesspaceweight//
Logbook	LB	M	Activity detail; "Yes" or "No" [2]
~~Production~~	~~PR~~	~~M~~	~~Activity detail; code for the production. See Annex II.K~~

Hails	HA	M	Activity detail; ~~observers verification if the reports made by the captain are correct,~~ "Yes" or "No" [3]
Apparent Infringements	AF	M	Activity detail; "Yes" or "No" [4]
Observer Name	ON	M	Message detail; name of the observer signing the report
Date	DA	M	Message detail; date of transmission
Free Text	MS	O[5]	Activity detail; for further comments by the observer
Time	TI	M	Message detail; time of transmission
End of record	ER	M	System detail; indicates end of the record

[1] Only to be transmitted if relevant.

[2] "Yes" if the observer ~~approves~~ confirms the Logbook entries have been made in accordance with the NCEMs~~by the captain~~.

[3] "Yes" if the observer ~~approves~~ confirms the ~~Hails~~reports required under Articles 13.11, 13.12, and 28.6 have been transmitted in accordance with the NCEMs~~by the captain~~.

[4] "Yes" if the observer detects a discrepancy with the NCEMs.~~ an infringement is observed.~~

[5] Mandatory if "LB" = "No", or "HA" = "No", or "AF" = "Yes".

[6] Discarded undersized catch reported in the US field should also be included in the quantities expressed in the Discarding (RJ) field.~~Directed species is the species which represents the greatest catch for that day~~.

Annex 45. Annual Fisheries and Compliance Review 2019

[STACTIC WP 19-43 Revised **now** COM Doc. 19-28]

1.0 Introduction

The scope of this review covers the fishing activities of NAFO-registered vessels which operated in the NAFO Regulatory Area in 2018[1] (see Figure 1.0).

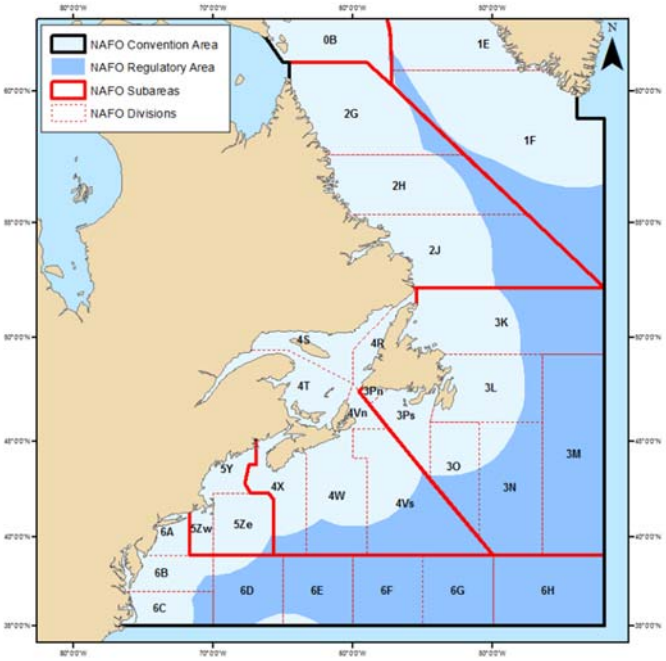


Figure 1.0. *Divisions of the NAFO Convention Area and the Regulatory Area (dark blue).*

This review is being undertaken in accordance with NAFO Rules of Procedure 5.1 and 5.2. As part of the review process, the Secretariat compiled 2018 information from the following sources: vessel monitoring system (VMS) and hail messages delivered by the vessels (Vessel Transmitted Information – VTI), Port Inspection Reports, At-sea Inspection Reports and Reports on Dispositions of Infringements provided by the Contracting Parties, and Observer Reports sent to the Secretariat.

The report follows the general outline that the Standing Committee on International Control (STACTIC) developed during the 2017 NAFO Annual Meeting (STACTIC WP 17-42 Rev. 2). An additional section incorporated in this report is the chartering arrangements (Article 26).

[1] In this report, only fishing trips which ended in 2018 were considered. According to Article 1.7 of the 2018 NAFO Conservation and Enforcement Measures (NCEM), a fishing trip includes "*the time from its entry into until its departure from the Regulatory Area and continues until all catch on board from the Regulatory Area is unloaded or transhipped*" (NAFO Conservation and Enforcement Measures Article 1.7). All article and annex numbers mentioned in this report have reference to the 2018 NCEM.

2.0 Fisheries in the NAFO Regulatory Area

2.1 Fishing effort by gear type

NAFO traditionally identifies three main fisheries in its Regulatory Area: the groundfish (GRO - primarily in Div. 3LMNO), shrimp (PRA - primarily in Div. 3LM) and pelagic redfish fisheries (REB - primarily in Div. 1F and 2J). The PRA and the REB fisheries have been under moratoria. In 2018, fisheries in the NAFO Regulatory Area (NRA) was limited to groundfish and pelagic redfish. There were 105 trips by 45 fishing vessels spending a total of 4105 days in the NRA (Table 2.1.1). Additionally, a single vessel (class size 5) spent 10 fishing days, as part of its fishing trip, in Division 6G catching alfonsinos. According to the observer report, the fishing gear used was a mid-water trawl.

Smaller vessels (<500 MT) tend to fish in Divisions 3NO using mainly longlines. The vast majority of the effort comes from larger vessels (> 500 MT) which account for 95% of fishing effort in terms of fishing days. The larger vessels use bottom trawl and fish in Divisions 3LMNO. The major species caught by the bottom trawlers are cod, Greenland halibut, redfish, yellowtail flounder, and thorny skate (see Table 2.3.1).

Table 2.1.1. *Fishing Effort in the NAFO Regulatory Area in 2018.*

Vessel Class	# of fishing vessels	# of fishing trips	Main Gear	f = Total Fishing Days	Fishing Trip Range (days)	Main Species	Fishing Area
Class 3-4 vessels (less than 500 MT)	5	10	Longline	211	12-49 days	Cod, Yellowtail flounder	Flemish Cap (for cod); Tail of the Grand Banks (for white hake)
Class 5 vessels (500-1000 MT)	11	32	Bottom Trawl	1147	13-68 days	Cod, Greenland halibut, redfish, skates	Flemish Cap; Tail and Nose of the Grand Banks
Class 6 vessels (1000-2000 MT)	25	58	Bottom Trawl	2572	6-94 days	Cod, Greenland halibut, redfish, skates	Flemish Cap; Tail and Nose of the Grand Banks
Class 7 vessels (> 2000 MT)	2	5	Bottom Trawl	175	11-53 days	Cod, Greenland halibut, redfish, skates	Flemish Cap; Tail and Nose of the Grand Banks
Total	**43**	**105**		**4105**			

2.2 Effort Distribution by depth of groundfish vessel

There is a requirement to provide the speed and course information in the position reports of Vessel Monitoring System (VMS). Hourly positions are required to be transmitted. However, activities, whether steaming or fishing, are not indicated in the position reports. Speeds between 0.5 and 5 knots were assumed to be fishing speeds in this analysis. In Figure 2.2.1, the distribution of fishing effort in hours of groundfish vessels is presented. It shows that about half of all groundfish effort is at depths 400 meters and below (skates, redfish

and cod). Figure 2.2.1 also shows a concentration of fishing effort around 1000 meters and this can be attributed to the Greenland halibut fishery.

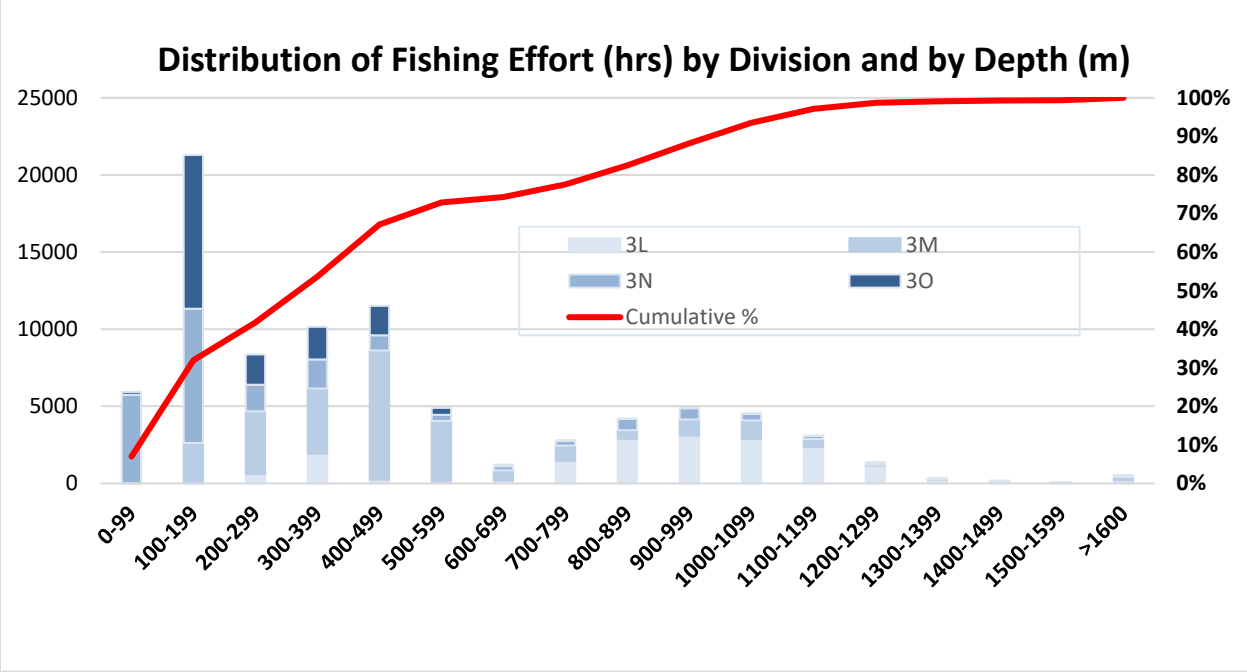


Figure 2.2.1. *Distribution of fishing effort (in hours) by depth (m) in the NRA in 2018. Vessels are assumed to be fishing at speed in the range of 0.5-5.0 knots.*

2.3 Catch in the NAFO Regulatory Area

In the calendar year 2018, a grand total of 56 773 t of fish (55 475 t retained + 1 298 t rejected) were caught by NAFO-registered vessels authorized to fish in the Regulatory Area (Tables 2.3.1 and 2.3.2). In terms of quantities caught, the stocks 3M Cod, 3LMNO Greenland halibut, 3M Redfish, 3LN Redfish, 3O Redfish, 3LNO Yellowtail flounder and 3NO Skates constitute the major groundfish fishery in the NRA.

Table 2.3.1 *Total reported retained catches (in tonnes) of species (in FAO 3-alpha code) by Division in calendar 2018 (Source: CA field of CAT Reports)*

Division	1F	3L	3M	3N	3O	6G	Total
Species subject to catch limitations (as listed in the Quota table)							
COD		67.3	11114.8	203.4	145.3		11530.8
GHL		7276.3	1808.2	840.2	3.4		9928.1
HKW		0.2	5.3	52.6	92.5		150.6
PLA		33.3	212.2	396.4	169.4		811.3
REB	2374.3						2374.3
RED		2895.5	10486.2	3694.9	5994.1		23070.7
SKA		49.8	61.9	1777.6	333.8		2223
SQI			0.1		147		147.1
WIT		41.9	197.1	53.6	141.9		434.5
YEL		0.1		2943.4	50.2		2993.6
Sub-total	2374.3	10364.4	23885.8	9962.1	7077.6	0	53664
Selected species not listed in the Quota table							
ALF						2	2
ANG				0.8	12.1		12.8
CAT		3.9	17.4	25.8	0.3		47.5
HAD			2.6	0.4	4.6		7.6
HAL		56.2	109.5	218.2	172.2		556.1
HKS				0.8	930.2		931
RHG		88.4	33.8	27.9			150.1
RNG		7.2	46	0.6			53.8
Sub-total	0	155.7	209.3	274.5	1119.4	2	1760.9
Sharks							
GSK		10.5					10.5
SHX			0.3				0.3
Other species	0	5.4	9.9	14.9	8.5	0.8	39.6
Sub-total	0	15.9	10.2	14.9	8.5	0.8	50.4
Total	**2374.3**	**10536**	**24105**	**10251**	**8205.5**	**2.8**	**55475**

Table 2.3.2 *Total reported rejected catches (in tonnes) of species (in FAO 3-alpha code) by Division in calendar year 2018 (Source: RJ field of CAT Reports)*

Division	3L	3M	3N	3O	Total
Species subject to catch limitations (as listed in the Quota Table)					
CAP			2.1	0.4	2.4
COD		31.4	9.9	0	41.3
GHL		0	0		0
HKW			2.5	3.2	5.7
PLA	0.5	1.3	9.4	1.5	12.7
RED	0.6	2.6	0.5	6.5	10.2
SKA	1.6	2.6	86.6	1.4	92.2
SQI				0.1	0.1
WIT	0.7	1.9	1	3.2	6.9
YEL			10		10
Sub-total	3.4	39.8	122	16.3	181.5
Selected species not listed in the Quota Table					
CAT	15.7	26.6	14.6	8.6	65.5
HAD			0	1	1
HAL		0.1	6.2		6.3
HKS			0.3	16.1	16.4
RHG	158	96.9	23.5	0	278.4
RNG	89.7	75	4	0	168.7
Sub-total	263.4	198.6	48.6	25.7	536.3
Sharks and other elasmobranch					
BSK		1			1
DGS		0	0		0
DGX	3.3	3.7	0.7		7.6
GSK	137.7	76.3	81.1	15.2	310.3
POR			5.1	4.6	9.6
RJD		0			0
RJG			0.1		0.1
RJL			0		0
RJQ	0.1	3.9	4.7		8.7
RJR	0.2	2.7	16.3		19.1
RJS		0.1	0		0.1
SHX		1.6	1.2	1.5	4.3
SMA		0.1	1.3	7.1	8.5
Other Species	30.2	34.9	143.8	2.4	211.4
Sub-total	171.5	124.3	254.3	30.8	580.7
Total	**438.4**	**362.7**	**424.6**	**72.8**	**1298.4**

3.0 Inspection and Surveillance

Chapter VI of the NCEM outlines the general provisions and protocol of the at-sea inspection and surveillance in the NRA. Inspectors are appointed by Contracting Parties participating in the at-sea inspection scheme in the NRA and assigned to fishery patrol vessels tasked to carry out NAFO inspection duties at sea. Currently, Canada and the European Union are the Contracting Parties with inspection presence. The United States of America has also partnered with Canada, posting inspectors on Canadian Patrol vessels.

Chapter VII of the NCEM – Port State Control Measure – outlines the procedure and protocol for landings and port inspection.

3.1 Patrol Activity

In 2018, Canada deployed surveillance planes, collectively flying 242 hours with 753 vessel sightings in the NRA. No vessel from non-Contracting Party was spotted.

In addition, five (5) patrol vessels were deployed by the CPs with inspection presence. In all 398 patrol-days were spent in the NRA. The total length of time each patrol vessel exercised its patrol duties in 2018 varied between 11 days and 174 days. However, there were 87 days when no patrol vessel, 173 days when there was one patrol vessel, 105 days when there was more than one patrol vessel present in the NRA. Figure 3.1 shows the time of the year they were present in the NRA.

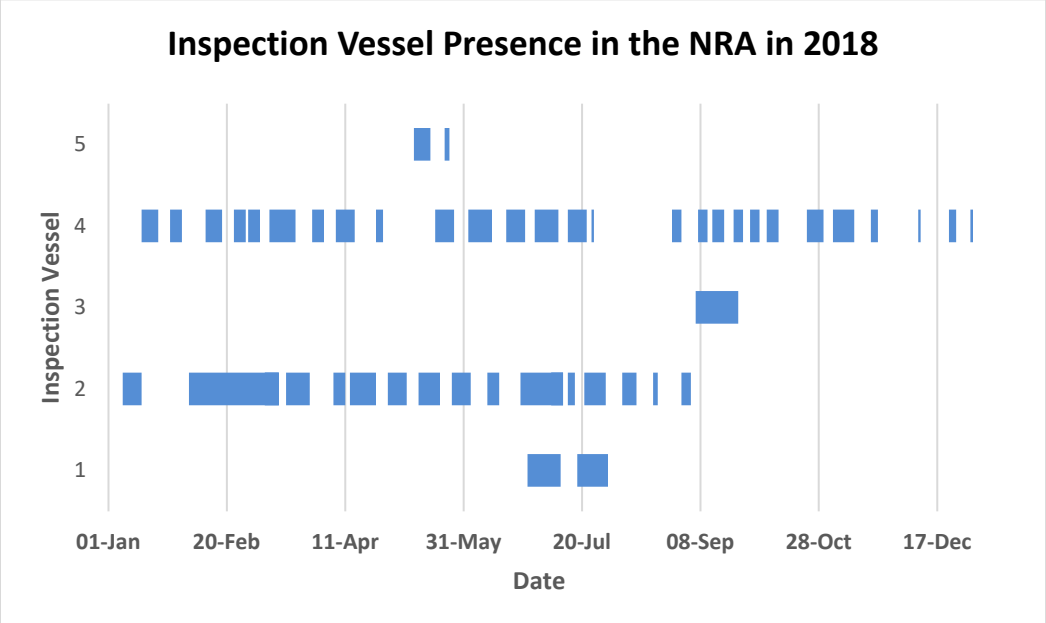


Figure 3.1 *Inspection Vessel Presence in the NRA in 2018.*

3.2 At-sea inspections

In all, 100 inspections-at-sea were conducted, out of which three (3) inspections detected Apparent Infringements (AI). Some AIs were considered serious (as per Article 38 definition), one could not by confirmed by the flag State upon further investigation or port inspection. Details of the apparent infringements and their disposition can be found in Sections 4.6-4.8.

3.3 Port Inspections

According to Article 43.10, the port State Contracting Party shall carry out inspections of at least 15% of all such landings or transhipments during each reporting year, unless otherwise required in a recovery plan in which case 100% coverage is required. Greenland halibut (GHL) is the only species which presence in the landing would require a port inspection (See Article 10). Port inspection reports are accomplished by port States using a PSC3 form (Annex IV.C).

In evaluating the compliance of port State authorities to Article 10, only trips with GHL onboard were considered. Table 3.3.1 shows the coverage levels (based on the number of trips) of port inspections for vessels that had GHL onboard.

Table 3.3.1 *Fishing trips with Greenland halibut (GHL) catch (based on the Catch-on-Exit (COX) for the trip) and percent coverage of port inspections for that trip*.

	Number of trips	**Amount of GHL (tonnes)**
Trips which reported GHL catch (GHL at COX >0)	63	10 546
Trips which reported GHL catch AND inspected at port (PSC3)	57	9 495
Percent Coverage	90.5%	90.0%

In evaluating compliance with Port State Control measures outlined in Chapter VII of the NCEM, a review of the submission of Port State Control Prior Request (PSC1) and Port Inspection reports (PSC3) is presented in Table 3.3.2.

Table 3.3.2 *The number of PSC1s and corresponding PSC3s received by the NAFO Secretariat by port States*.

Port State	**PSC1 (prior request of flag State for port entry)**	**PSC3 (port inspection report from post State authority)**	**% Coverage**
Canada	11	11	100.00
DFG (Faroe Is)	5	2	40.0
EU (Spain)	4	4	100.0
Iceland	3	1	33.3

4.0 Compliance

In this section, reporting obligations and apparent infringements (AIs) are examined. AIs are detected by at-sea inspectors and by port inspection authorities (see Section 3).

4.1 Reporting Obligations

The NCEM requires fishing vessels and flag State Contracting Parties (through the Fisheries Monitoring Centre), port State Contracting Parties and at-sea observers to provide reports on the fisheries activity within a determined time frame. Compliance of port State Contracting Parties to reporting requirements is discussed in section 3.3.

4.1.1 Vessel Activity Reporting

4.1.1.1 Vessel Transmitted Information (VTI) – Catch-on-Entry (COE), Daily Catch Reports (CAT), and Catch-on-Exit (COX)

The Fisheries Monitoring Centres (FMCs) of flag States are responsible for transmitting the VTI reports to the Secretariat. The COE and COX are transmitted signifying the entry to and exit from the NRA. COE-COX information is used to estimate the fishing-days effort in a fishing trip. The CATs are daily catch quantities reported by species and by Division while on a fishing trip. CATs are used to monitor the quota uptakes by the fleet of the Contracting Parties.

In Table 4.1.1.1, the number of COE, COX, and CAT, as well as of fishing trips and fishing effort-days in the NRA, is presented. All identified 2018 fishing trips had corresponding COE and COX.

In total 4390 CATs were received within the calendar year 2018. This number is expectedly higher than the number of fishing days because some vessels were fishing in more than one Division in a single day.

Table 4.1.1.1 *Fishing effort and VTI statistics in the NRA, 2018.*

Number of fishing trips identified	105
Fishing Days	4105
Number of Daily Catch Reports (CATs)	4390
Number of Catch on Entry Reports (COEs)	121
Number of Catch on Exit Reports (COXs)	124

No major technical issue was encountered in transmission and receipt of the VTI reports. All expected reports, including the Daily Catch reports (CAT), were received by the Secretariat.

The timely receipt of the CATs allowed an effective monitoring of the quota uptakes and the effective implementation of quota transfers and charter arrangements. No quota was exceeded in 2018.

4.1.1.2. Catch reporting on sharks

Article 28.6.g requires that all shark catches be reported at the species level, to the extent possible. When species specific reporting is not possible shark species shall be recorded as either large sharks (SHX) or dogfishes (DGX).

The 2018 CAT reports were examined and not all shark catches were reported to the species level. It is not known how many species of the retained sharks were lumped into SHX. All reported rejections of shark species were identified to species level. Greenland shark constitute the bulk of the total shark catches (see table 4.1.1.2).

Table 4.1.1.2. *Amount of shark catches (t) as reported in CATs in 2018.*

3-Alpha Code	Scientific Name	Common Name	Retained (t)	Rejected (t)	Total (t)	Percentage
BSK	*Cetorhinus maximus*	Basking shark		1.0	1.0	0.3%
DGS	*Squalus acantias*	Spiny (=picked) dogfish		0.0	0.0	0.0%
DGX	*Squalidae*	Dogfishes (NS)		7.6	7.6	2.2%
GSK	*Somniosus microcephalus*	Boreal (Greenland) shark	10.5	310.3	320.8	91.1%
POR	*Lamna nasus*	Porbeagle		9.6	9.6	2.7%
SHX	*Squaliformes*	Large sharks	0.3	4.3	4.6	1.3%
SMA	*Isurus oxyrinchus*	Shortfin mako shark		8.5	8.5	2.4%
TOTAL			**10.8**	**341.3**	**352.1**	**100.0%**

4.1.1.3 Fishing logbook (haul by haul) Reports

The submission of fishing logbook data on a haul by haul basis became mandatory in 2015 (Article 28.8.b). The haul by haul data must be submitted to the Secretariat in the format prescribed in Annex II.N. for all hauls of the fishing trip. The Secretariat has received logbook data for 102 of 105 trips that were completed in 2018. One CP is investigating the missing three reports.

The Secretariat highlighted that although the information contained in the haul x haul reports were found to be generally reliable, several inaccuracies and impossible values in the coordinates and fishing time have been detected through mapping and cross verification with VMS and depth data.

4.1.1.4 Position reporting – Vessel Monitoring System (VMS)

According to Article 29, every fishing vessel operating in the NRA shall be equipped with a satellite monitoring device capable of continuous automatic transmission of position to its land-based FMC, which in turn is transmitted to the Secretariat in real time. The transmission of position reports (POS) shall be no less frequently than once an hour.

The Secretariat can confirm that the requirement is fully complied with. In 2018, a total of 112 823 POS reports were received. Occasionally, technical problems were encountered by the fishing vessels or FMC. During these occasions, the POSs were transmitted manually. Technical issues were usually resolved within a few days through the coordination between the Secretariat and the FMC.

4.1.1.5 Closed Areas and Exploratory Fisheries

As of 2018, in total 21 areas in NAFO have been closed to bottom fishing including 14 areas with significant concentration of coral, sponges and sea pens, one coral protection zone, and six seamounts. The measures concerning the protection of Vulnerable Marine Ecosystems (VMEs) from bottom fishing are stipulated in Chapter II of the NCEM.

Based on the VMS positions, no bottom fishing was detected within the closed areas.

No Contracting Party notified its intention to conduct exploratory fisheries (as defined in Article 18) to the Secretariat in 2018.

4.1.1.6 Vessel activity after 3M redfish 50%- and 100%-TAC uptake notifications

The stock 3M redfish is the only stock listed in the Quota table which Total Allowable Catch (TAC) is considerably less than the sum of the quotas. The Secretariat monitors the TAC uptake through the daily catch reports it receives from the vessels and FMCs. When the TAC is projected to be reached, CPs are notified and are required to instruct their vessels to cease directed fishery on the stock starting on the date projected by the Secretariat.

Figure 4.1.1.6 shows the total daily catches and the percentage of cumulative catch derived from CAT reports. According to Article 5.5.d of the NCEM, not more than 50% of the TAC may be fished before 01 July. A total of 22 vessels were targeting 3M redfish in early 2018. On 15 March 2018, the five-day prior notification of 50%-TAC uptake was circulated, stating that the 50% of the quota was projected to be taken by 20 March 2018, at which time the fishery would be suspended until 30 June. On 20 August 2018, the 96-hour notification was circulated, advising that 100% of the TAC was projected to be reached by 24 August. By the projected closure date, 99.8% of the 10500 t-TAC was fished. No directed fishery on this stock was conducted after the closure.

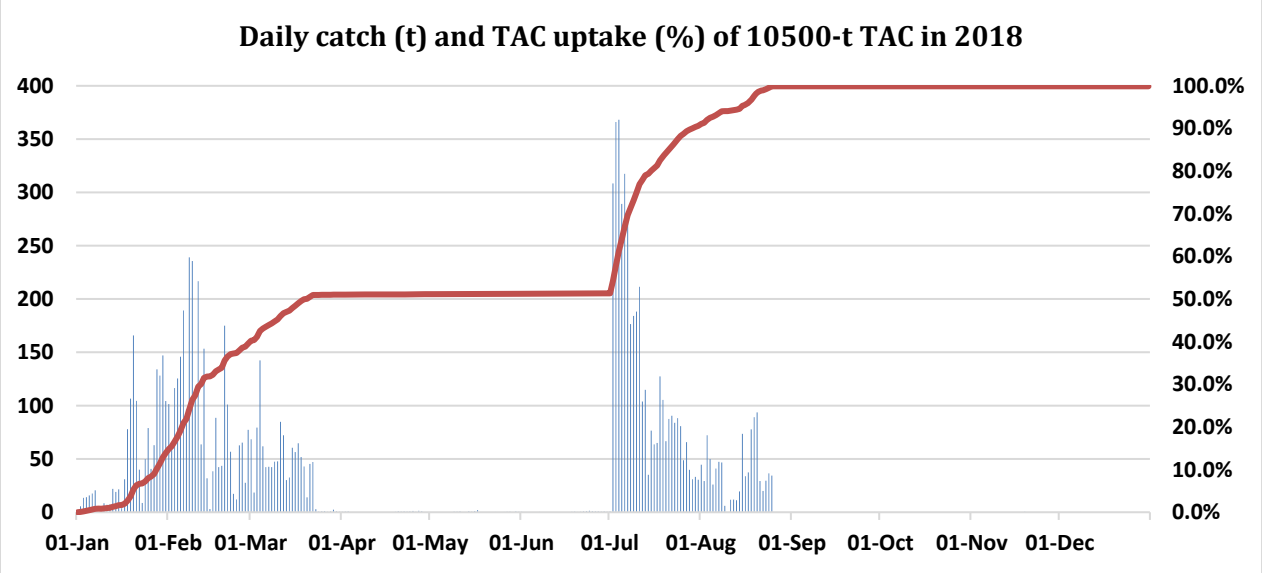


Figure 4.1.1.6 *Daily catches of 3M redfish and TAC uptake in 2018. Source: 2018 CATs.*

4.1.1.7 Chartering arrangement

Article 26 allows chartering arrangements between two CPs – the chartering CP (with quota) and the flag State CP (with fishing vessel). Catches made by the vessel are counted against the quota of the chartering CP. In 2018 one (1) arrangement was made with a fishing possibility of 340 tonnes of yellowtail founder.

Through the daily catch reports of the vessel where chartering catches are identified, the Secretariat could monitor the implement of the arrangement. The charter catches amounted to 339 t. With regards to the submission of the documentations (Article 26.7 and 26.8) and reporting of implementation dates (Article 26.9), both Parties of the charter complied to the requirements.

4.1.2 Observer Reports

Under Article 30.A – Observer Scheme, vessels are always required to have an independent observer on board (i.e. 100% coverage) during every fishing trip.

In evaluating compliance of observer reports submission, only reports from vessels operating under Article 30.A were considered. In 2018, of the 95 fishing trips under Article 30.A, the Secretariat received observer reports from 86 trips, an 91% reporting coverage.

4.2 Apparent Infringements detected at-sea and at-port

In 2018, a total of six (6) vessels were cited with AI by inspectors at sea and port authorities. Details on the nature of the AIs and their disposition are provided in Table 4.2.

Table 4.2 *Details of Apparent Infringements (AI) detected by inspectors at-sea and by port authorities in 2018 and their disposition. AIs presented in bold were considered "serious" by the inspectors as per Article 38 definition.*

CP	Vessel Code	Inspection Date	AI's detected at-sea. Serious AIs in bold.	Confirmation in port of AI detected at sea (PSC3: Section E.1.B.a).	AI's detected in port (PSC3: Section E.1.B. c.) Serious AIs in bold.	Follow-up action (Article 40) and Status as of June 2019
RUS	3	18-Apr-18	**-Art. 28.2.a and b- Fishing logbook.** -Art. 28.5.a - Stowage Plan.	Art 28: 2(b)/3(a)/5(a)		Penalty was paid by the ship-owner in accordance with the established procedure. CLOSED
NOR	113	14-May-18	-Art. 25.11 - Capacity Plan			Warning Issued. CLOSED
EU	43	04-Jul-18			-Art.27.1 - [Product labelling]	Case led by Spain. Procedure about to start. PENDING
RUS	40	27-Jul-18			**-Art. 38.1.i Mis-recording, contrary to Art. 28.**	Russia investigated the incident and concluded that "the activity of the fishing vessel was carried out in strict accordance with the provisions of NAFO Measures". CLOSED
USA	116	18-Sep-18	**-Directed fishing for 3M Cod (Art. 38.1)** -Fishing logbook missing (Art. 28.2) -Production logbook missing (Art. 28.3) -Capacity Plan (Art. 25.10.a)			STILL UNDER INVESTIGATION
EU	49	03-Dec-18			-Art. 28.3. Production logbook **-Art. 28.2 Overrecording of HAL** **-Art. 28.2 Overrecording of RED** **-Art. 28.2 Underrecording of COD** -Art. 27.1 Product labelling - COD-GUH labelled as COD-OTH	Case led by Spain Procedure started on 11.12.2018. PENDING

4.3 Follow-up to apparent infringements

NCEM Article 39 spells out obligations of a flag State Contracting Party that has been notified on an apparent infringement. It includes taking immediate judicial or administrative action in conformity with the national legislation of the flag State Contracting Party and ensuring that sanctions applicable in respect of infringements are adequate in severity.

Article 40 requires Contracting Parties to report on the disposition of the AIs. The legal resolution of AIs may take more than a year. Contracting Parties shall continue to list such infringements on each subsequent report until it reports the final disposition of the infringement. In Table 4.3, a summary of status of AI cases in the last five years (2014-2018) and their resolution are presented.

Table 4.3 *Resolution of citations (by at-sea inspectors and port authorities) against vessels fishing in the NAFO Regulatory Area by year in which the citations were issued (as of May 2019). A citation is an inspection report that lists one or more apparent infringement. Inspections carried out for confirming a previous citation are not included.*

Year	Number of Inspection Reports with AI citation/s	Number of Resolved cases	Number of Pending Cases *	% Resolved
2014	6	5	1	83%
2015	3	0	3	0%
2016	11	6	5	54%
2017	7	5	2	71%
2018	6	3	3	50%

** still under investigation, litigation, or appeal.*

5.0 Trends and Analysis

Five-year trends (2014-2018) on effort and catch, reporting obligations of CPs and observers, compliance by fishing vessels, and at-sea inspections and AIs are presented in this section.

5.1 Effort and Catch

Trends in fishing effort and catches are presented in Table 5.1, Figures 5.1.1, 5.1.2 and 5.1.3.

Observations:

- There was a 6% effort increase in 2018 compared to the previous year; however, there was a 20% decrease of fishing effort in the 5-year period.
- Total catch of TAC-managed species remained steady, ranging 52.0K t and 57.8K t.
- Catch per unit effort (CPUE) of TAC-managed species remained steady, ranging 10.8 and 14.6 tonnes/day.
- Considerable amount of both American plaice and cod was caught in Division 3N, while in comparison a lesser count of cod was caught in Division 3O. Both species are under moratoria.
- Reversed catch trends were observed between Greenland halibut and redfish in Division 3L, and between cod and redfish in Division 3M (see Figure 5.1.2).

Table 5.1. *Fishing days, as defined by Article 1.6, by fishing gear.*

	Longline	Midwater-trawl	Bottom-Trawl	TOTAL
2014	352	56	4414	4822
2015	272	93	3785	4150
2016	260	181	3873	4314
2017	314	0	3558	3872
2018	304	82	3719	4105

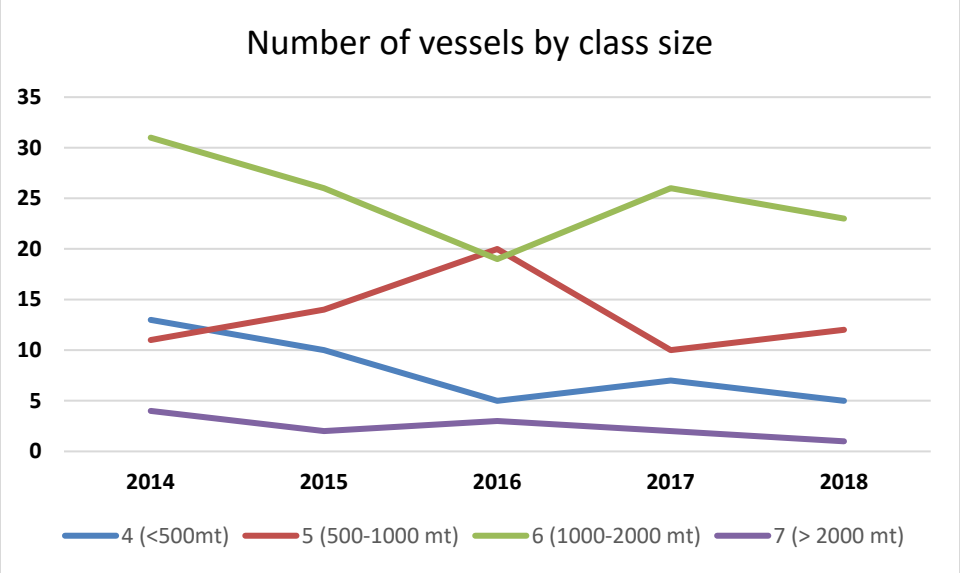


Figure 5.1.1 *Number of fishing vessels in Divisions 3LMNO by class size, 2014-2018. The class sizes are based on the STATLANT classification.*

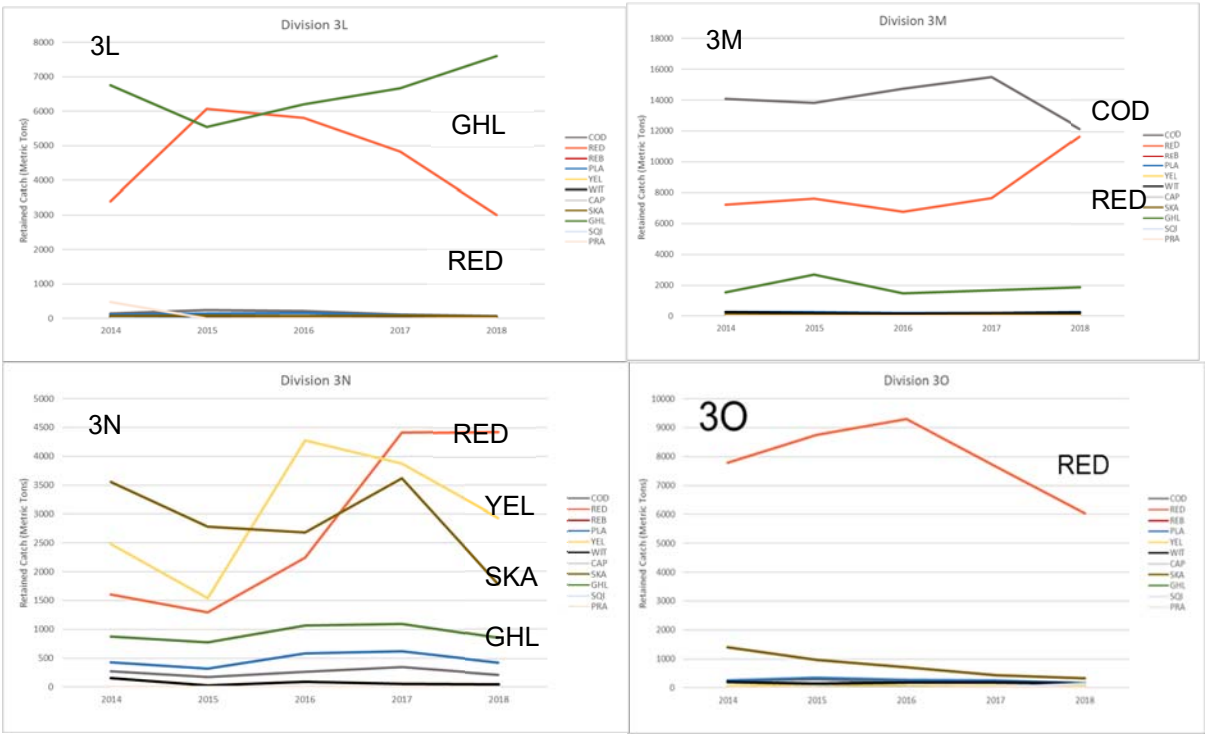


Figure 5.1.2 *Catches (in tonnes) by Division of selected species managed by TAC, 2014-2018 (Source: CATs)*

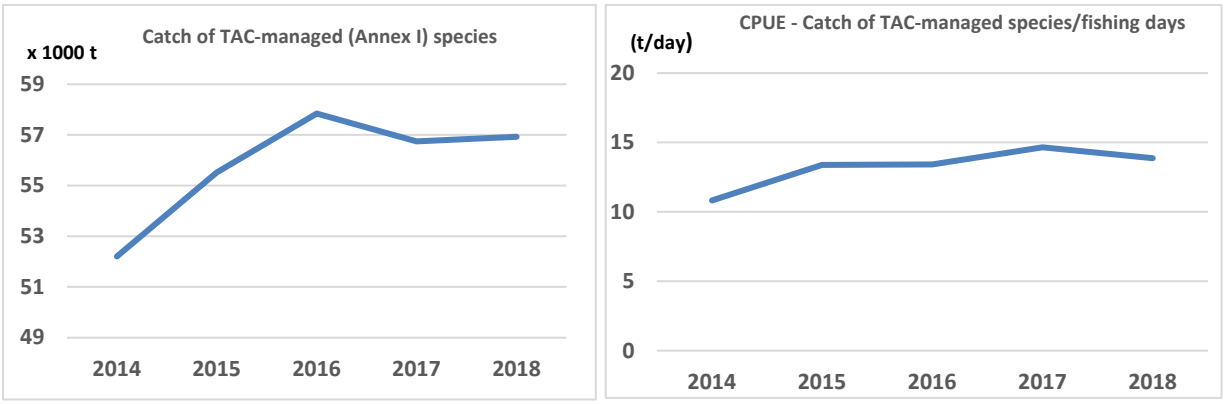


Figure 5.1.3 *Catch of TAC-managed species and CPUE in 2014 -2018, expressed in total catch of TAC-managed species per fishing day. Data Source: CATs and VMS reports.*

5.2 Reporting Obligations by Contracting Parties and Observers

Compliance to reporting obligations is quantified as a percentage coverage – the ratio of the fishing trips accounted for by the reports and of the total number of relevant fishing trips. A 100% coverage would mean that all expected reports were delivered to the Secretariat, less than 100% means some fishing trips did not have a corresponding report. Figure 5.2 presents the percentage coverage of port inspections reports on vessels with Greenland halibut landings, observer reports from vessels operating under Article 30.A, and haul by haul reports in accordance with Article 28.8.b.

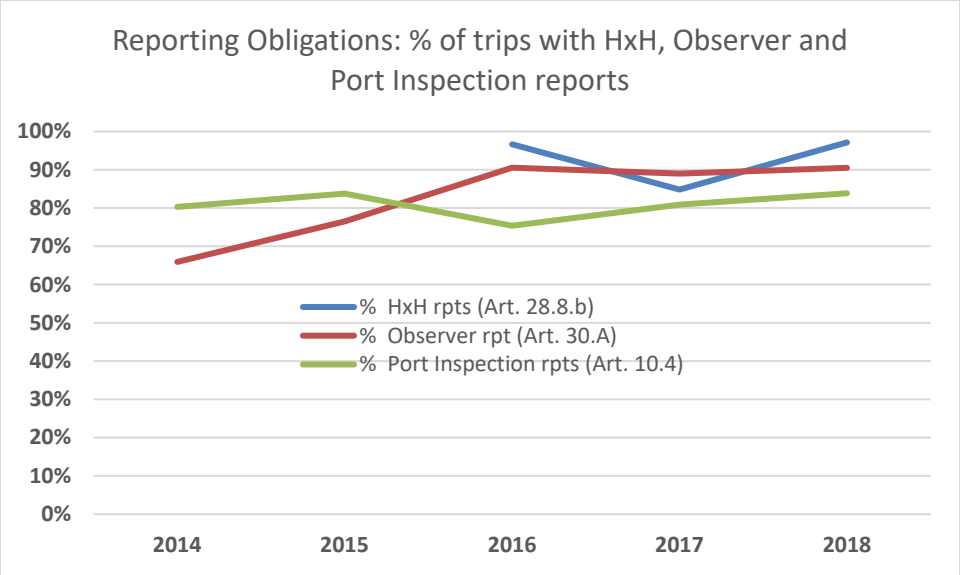


Figure 5.2 *Percentage coverage of Port Inspections reports with Greenland halibut landings reports (Arts. 10.4 and 42.10), Observer Reports on fishing vessels operating under Article 30.A, and Haul by Haul reports (Article 28.8.b and Annex II.N), 2014-2018.*

5.3 Compliance by Fishing vessels

In the 5-year review period, VMS and VTI requirements (Article 28 and 29) have been fully complied with.

Hourly position reports (POS), as well as the Daily Catch Reports by Division (CATs), were transmitted to the Secretariat while the vessels were in the NRA. The Catch-on-Entry (COE) and Catch-on-Exit (COX) reports for each fishing trip were also transmitted.

5.4 Inspections and Apparent Infringements

At-sea inspection rates, computed as a ratio of the number of at-sea inspections and the total fishing effort, in the period 2014-2018 are presented in Figure 5.4.1. Frequency of AI cases in the period 2014-2018 are presented in Figure 5.4.2.

Inspection rates have remained steady with no more than 10% inter-annual difference. The 2018 inspection rate decrease compared to the previous year.

With regards to AIs detected at sea and at port, mis-reporting of catches have remains to be the most common AI. There is no other discernable trend with regards to the nature and frequency of the AIs.

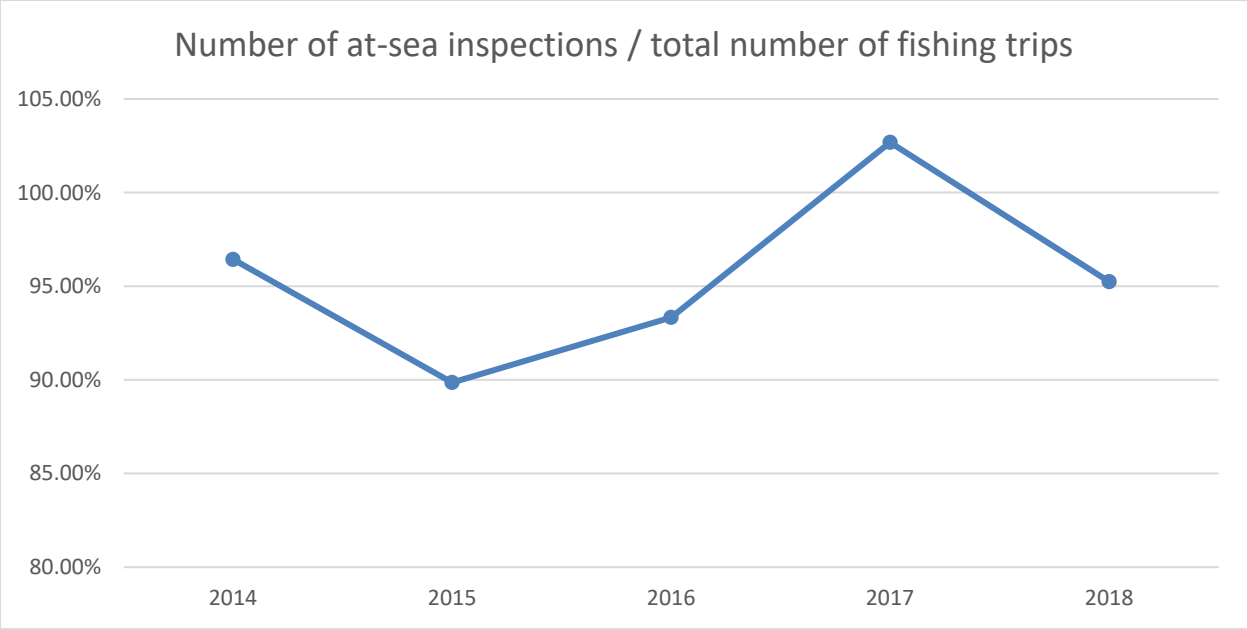


Figure 5.4.1 *Inspection rates (number of at-sea inspections/fishing trips) in the NAFO Regulatory Area, 2014-2018. The 2017 instance of over 100% inspection rate occurred due to multiple inspections occurred during single trips.*

	2014	2015	2016	2017	2018
Bycatch - move-away	●				
By-catch requirements	●●	●	●●●●	●●	
Catch communication violations (COX)			●		
Directed fishing of moratorium stock			●	●	
Directed fishing of stock without quota allocation					●
Evidence tampering	●		●		
Fishing after date of closure			●		
Gear requirements - mesh size, illegal attachments	●			●	
Inspection protocol		●	●		
Mis-recording of catches - inaccurate recording	●●●●●●●	●●	●●●●●●●	●●●●	●●●●
Mis-recording of catches -stowage	●●	●	●	●●●	●
Observer requirements	●				
Product labelling	●●●			●	●●
Quota requirements			●●		
Vessel requirements - capacity plans	●		●		●●
VMS requirements	●				

Figure 5.4.2 *Frequency of apparent infringement cases detected by at-sea inspectors and port authorities in 2014-2018. Black and blue dots represent apparent infringement issued at sea and at port, respectively.*

6.0 Conclusions

In NAFO, there are three main fisheries conducted mainly with trawl gear and a limited presence of longline gears. The catches are stable around 56 000 tonnes with a 3% discard rate.

Overall compliance with reporting obligations is high and has continued to improve in recent years. Contracting Parties are providing the required compliance indicators necessary to complete the compliance review process.

However, concerns are expressed with some discrepancies related to catch reporting and the sizable increase in the reporting of discards of Greenland shark, noting that they comprise 23.8% of all discards in NAFO.

7.0 Recommendations

STACTIC recommends that the Secretariat evaluates frequency of exceedance of bycatch thresholds and move-along compliance. STACTIC will include a section on bycatch and discard compliance in the Annual Fisheries and Compliance Review.

STACTIC recommends that all Contracting Parties continue to strive for coordination and collaboration.

STACTIC encourages Contracting Parties and Masters of fishing vessels to be mindful of the veracity of the haul by haul reports before being transmitted to the Secretariat.

STACTIC recommends that inspectors should continue to consider discrepancies in reporting and continue make use of the NAFO MCS Website when planning inspections.

STACTIC recommends that Contracting Parties continue to ensure the correct reporting of species by division, including species where no catch limitations apply.

STACTIC recommends that all Contracting Parties maintain and continue efforts to protect stocks that are subject to moratorium.

STACTIC recommends that Contracting Parties with an inspection presence continue to enforce the CEM with uniformity and consistency.

STACTIC recommends that the Secretariat split out the information in Table 3.3.1 by Contracting Party for the next Compliance Review.

STACTIC recommends to review the mechanism for updating the cancelation of the PSC1 to the NAFO Secretariat.

STACTIC recommends a column be added to Table 3.3.2 to clarify vessels intentions (e.g. landing vs. use of port services) for the next Compliance Review.

STACTIC recommends that vessel names be included in table 4.2 in the initial draft of the Compliance Review, but be removed prior to making the document public for the 2020 review.

STACTIC recommends that the Secretariat include a trend for the number of fishing vessels in figure 3.1 for the next Compliance Review.

Annex 46. Providing Information on the Implementation of the FAO Port State Measures Agreement

[COM WP 19-23 **now** COM Doc. 19-33]

Background

According to Article 24.1 of the FAO Port State Measures Agreement (PSMA) the Parties shall, within the framework of FAO and its relevant bodies, ensure the regular and systematic monitoring and review of the implementation of the PSMA, as well as the assessment of progress made towards achieving its objective.

Furthermore, Article 24.2 provides that the FAO shall convene a meeting of the Parties to review and assess the effectiveness of the PSMA in achieving its objective, four years after the entry into force of the Agreement. As the FAO PSMA entered into force in June 2016, a third meeting of the Parties for this purpose is planned for 2020, and the European Union has offered to host this meeting in the week of 30 November to 4 December 2020.

In this regard, the second meeting of the States Parties to the FAO PSMA adopted a questionnaire regarding how the States Parties have implemented the Agreement. The purpose of the questionnaire is to serve as a tool that monitors implementation and identifies challenges faced in implementation, as a part of the review and assessment of the effectiveness of the PSMA.

As the Regional Fisheries Management Organizations (RFMOs) have been given a very important role in the implementation of the FAO PSMA and in achieving its objective, it was also agreed that the FAO Secretariat shall invite RFMOs to provide information on their implementation of the PSMA. However, no questionnaire was developed for the RFMOs.

The questionnaire developed for the States Parties was agreed to be launched during the first week of June 2020 and remain open until 1 September 2020, and it is likely that the invitation to RFMOs to provide information will be sent at the same time as the questionnaire for the States Parties.

Proposal

STACTIC is responsible for monitoring the implementation of the requirements in the NAFO CEM and should provide the response regarding the implementation of the FAO PSMA in NAFO. However, as the meetings of STACTIC normally take place in May and during the Annual Meetings of NAFO in September, STACTIC should finalize its response at the spring meeting in 2020. This does not allow much time for STACTIC to prepare such a response, and hence, we propose that the NAFO Secretariat is asked to provide a draft by the end of January 2020. The draft should then be discussed by a smaller working group established by STACTIC. This working group will prepare a draft response, to be discussed and agreed by STACTIC.

The response to FAO should provide a short description of the NAFO port State control system and its history, including amendments made to align with the FAO PSMA. It should also include the number of NAFO Contracting Parties, which are Parties to the PSMA.

Furthermore, the response should compare the NAFO port State control system with the FAO PSMA, and should include, inter alia, the issues listed below:

- Objective and area of application
- Measures to integrate port State control measures with other measures to prevent, deter and eliminate IUU fishing and fishing related activities in support of such activities
- Requirements for designating ports
- Requirements for entry into port, including the information required when vessels request port entry

- Requirements for denial of use of port
- Measures regarding inspections and follow up actions, including
  - minimum levels for inspections
  - measures on risk assessment and which vessels to prioritize
  - guidelines or requirements for the training of inspectors
  - requirements for the conduct of inspections
  - inspection procedures
  - inspection reports
  - transmittal of inspection results
- Procedures for denial of port entry and use of port, including sharing of information
- Requirements applicable to vessels from non-Contracting Parties and cooperating non-Contracting Parties
- Measures regarding the role of flag States
- Measures in place for exchanging information relating to port State control between the Contracting Parties, but also with FAO, other international organizations and RFMOs.
- Measures in place if, following inspection, there are clear grounds for believing that a vessel has engaged in IUU fishing or fishing related activities in support of such fishing, or if there are other compliance issues.

The response should also describe challenges experienced in aligning the NAFO port State control with the FAO PSMA.

Based on the above, it is proposed that the Commission requests the NAFO Secretariat to prepare a draft response to FAO, including the elements described above by the end of January 2020.

It is also proposed that STACTIC establishes a working group which, based on the draft from the Secretariat, shall prepare a response to FAO, to be discussed and agreed by STACTIC at its spring meeting in 2020.

NAFO Northwest Atlantic Fisheries Organization

PRESS RELEASE

Committed to **Conservation** and **Management** of **Fisheries** and **Ecosystems** in the Northwest Atlantic

Annex 47. 2019 Press Release

FOR IMMEDIATE RELEASE

Bordeaux, France, 27 September 2019- The 41st Annual Meeting of the Northwest Atlantic Fisheries Organization (NAFO) took place from 23-27 September in Bordeaux, France. Delegates from the 12 NAFO Contracting Parties were welcomed to France by the French Minister for Agriculture and Food, Didier Guillaume, the French Director General for Fisheries and Aquaculture, Frédéric Gueudar Delahaye, and the NAFO President, Stéphane Artano. Contracting Parties were also welcomed by Stephan Delaux, Deputy Mayor of Bordeaux, Eric Banel, Interregional Director for the Sea, representing the Regional Prefect of New Aquitaine, and Raphaëlle Seguin, Counsellor at the Ministry for French Overseas Territories, later in the week.

At the meeting, NAFO agreed to advance its review of the Precautionary Approach Framework to support the long-term conservation and sustainable use of fisheries resources in the NAFO Regulatory Area. The comprehensive management strategy for Divisions 2+3KLMNO Greenland halibut, adopted in 2017, will continue to inform sustainable management decisions for this NAFO stock. NAFO agreed to reopen the Flemish Cap shrimp fishery (Division 3M) after an increase of the stock to levels above B_{lim}. The fishery for this shrimp stock has been closed since 2011.

In addition, to the traditional total allowable catch (TAC)* and quota decisions, significant decisions were made regarding the following:

- NAFO agreed to a process to address the recommendations of the 2018 Performance Review, along with an annual progress reporting procedure.
- NAFO continued its commitment to transparency and agreed to post its vessel registry on the NAFO website.
- NAFO increased its Monitoring, Control and Surveillance data availability to at sea and in port inspectors.
- NAFO continued to make progress on the NAFO Observer Application for the instantaneous reporting of scientific and catch data to the NAFO Secretariat.
- NAFO reelected, Stéphane Artano (France in respect of St. Pierre et Miquelon), as NAFO President, and Temur Tairov (Russian Federation) as Vice-Chair of the NAFO Commission, for an additional two-year term.

*All of the TACs and quotas can be found attached.

For further inquiries, please contact: Dayna Bell MacCallum
Scientific Information Administrator
NAFO Secretariat Tel: +902 468-5590 ext. 203 E-mail: dbell@nafo.int

-30-

www.nafo.int
2 Morris Drive, Suite 100
Dartmouth, Nova Scotia,
Canada B3B 1K8
+1 (902) 468-5590
Email: info@nafo.int

PART II.
Report of the Standing Committee on International Control (STACTIC)

41st Annual Meeting of NAFO, 23-27 September 2019
Bordeaux, France

Report of the Standing Committee on International Control (STACTIC)

41st Annual Meeting of NAFO, 23-27 September 2019
Bordeaux, France

1. Opening by the Chair, Judy Dwyer (Canada)

The Chair opened the meeting at 14:00 hours on Monday, 23 September 2019 at the Hotel Pullman of Bordeaux-Le Lac in Bordeaux, France. The Chair welcomed representatives from the following Contracting Parties (CPs) – Canada, Denmark (in respect of Faroe Islands and Greenland), the European Union, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Norway, the Republic of Korea, the Russian Federation, and the United States of America (Annex 1).

2. Appointment of Rapporteur

Jana Aker (NAFO Secretariat) was appointed as rapporteur.

3. Adoption of Agenda

The following additions were made to the agenda under agenda Item 18 – Other Business:

a. SC Survey
b. Inspectors Workshop
c. Article 30
d. Port State Measures

The agenda was adopted, as amended (Annex 2).

4. STACTIC participation

Prior to the opening of this meeting, Contracting Parties met to discuss the participation of industry representatives in STACTIC. Recognizing the need for a productive meeting, Contracting Parties agreed as a temporary solution to walk through the agenda and the working papers to determine which items were deemed to be of a sensitive nature and were more appropriate to be discussed in an in camera session. Contracting Parties agreed that all working papers and agenda items would be discussed in an open session, with the exception of Agenda Item 6 (STACTIC WP 19-59) and the Secretariats' demonstration of the updates to the NAFO MCS Website under Agenda Item 9, noting these would be discussed in an in camera session restricted to government officials and NAFO Commissioners from each delegation. It was understood that after the in-camera discussion, the Chair would report out the results or recommendations in open session.

Contracting Parties noted that the current practice of identifying items for an in camera session would work as a short-term solution, but that a more permanent solution would be required. Contracting Parties agreed to task a small working group to develop a possible long-term solution for STACTIC participation. Some options that were discussed included an executive session of STACTIC, the development of a Terms of Reference for STACTIC, asking the NAFO Secretariat to review the Terms of Reference for compliance committees in other RFMOs, etc… Contracting Parties noted that the procedure adopted for this meeting, of identifying sensitive agenda items and working papers for an in camera session in advance of the meeting should continue until a long term solution is in place.

It was agreed to develop an ad hoc working group on STACTIC participation and task them with addressing the issue of participation of industry representatives in STACTIC, and examine the current Rules of Procedure in the possible development of a terms of reference for STACTIC. It was agreed that the NAFO Secretariat will review the Terms of Reference for compliance committees in other RFMOs and report their findings to the ad

hoc working group. The ad hoc working group will report back to STACTIC at the 2020 STACTIC Intersessional Meeting. Contracting Parties agreed and noted that this meeting should be held back to back with the EDG meeting.

It was **agreed** that:

- **an ad hoc working group on STACTIC participation be developed and task them with addressing the issue of participation of industry representatives in STACTIC, and consider the current Rules of Procedure in the possible development of a terms of reference for STACTIC.**
- **the NAFO Secretariat will review the Terms of Reference for compliance committees in other RFMOs and report their findings to the ad hoc working group.**
- **The ad hoc working group will report back to STACTIC at the 2020 STACTIC Intersessional Meeting.**
- **The ad hoc working group on STACTIC participation be held back to back with the EDG meeting in March 2020. Venue and dates to be determined.**

5. Compliance review 2019 including review of apparent infringement reports and of chartering arrangements

The NAFO Secretariat presented the draft Compliance Review outlined in STACTIC WP 19-43, noting that the overview of Chartering Arrangements (information presented in STACTIC WP 19-42) was included in this version of the Compliance Review as per the agreement from the 2018 Annual Meeting. Contracting Parties offered some clarification throughout the draft Compliance Review and representatives from the United States of America, Canada, and the European Union volunteered to continue work on the conclusions and recommendations sections which were drafted by the NAFO Secretariat. The final version of the draft Compliance Review is outlined in STACTIC WP 19-43 (Revised).

The NAFO Secretariat presented STACTIC WP 19-51 outlining a preliminary analysis of bycatch exceedance frequency and compliance to the 10-mile moving-away provision using the logbook (haul by haul) data from bottom trawl gears. The Secretariat noted that the intent of this presentation was to receive feedback from Contracting Parties on the methodology being used and receive input for improvements for presentation at the 2020 STACTIC Intersessional meeting. Contracting Parties thanked the Secretariat for the preliminary analysis but noted that further work and refinement was needed. Contracting Parties agreed that the analysis should continue and offered suggestions to enhance the analysis including that other data sources (e.g. VMS, observer reports) should be included in the analysis for verification, as well as an evaluation of whether there was a reduction in bycatch after moving 10nm. Canada encouraged further testing of the preliminary results as the analysis continues.

The European Union noted that, although the methodology followed in STACTIC WP 19-51 could be improved, the preliminary results already reveal serious concerns about the rationale and enforceability of certain provisions in the NAFO CEM relating to the implementation of bycatch and discard provisions. The European Union pointed out that a number of STACTIC working papers on such issues are repeatedly discussed in various STACTIC meetings, confirming how complex the implementation of the bycatch and discard provisions have become. The European Union also pointed out that some NAFO Contracting Parties have adopted a landing obligation; this also confirms the need to evaluate if the current bycatch and discard provisions in NAFO are still relevant. The European Union consequently calls STACTIC to request the Commission to mandate STACTIC to discuss the impact of the landing obligation on the current bycatch and discard provisions in the NAFO CEM.

It was **agreed** that:

- **The draft Annual Compliance Review outlined in STACTIC WP 19-43 (Revised) be forwarded to the Commission for adoption.**

- **That the Secretariat should proceed with the work on the analysis of bycatch exceedance frequency and compliance to the 10-mile moving-away provision.**

6. Measures concerning repeat non-compliance of serious infringements in the NAFO Regulatory Area

Canada presented a discussion paper on measures concerning vessels demonstrating repeat non-compliance of serious infringements in the NAFO Regulatory Area in STACTIC WP 19-59. This discussion was held during an in-camera session. During the session, broad discussions were held based on the presentation from Canada on possible options for potential measures for addressing this issue. Canada thanked Contracting Parties for their input and agreed they may come forward with a new discussion paper or proposal at the 2020 STACTIC Intersessional Meeting.

It was **agreed** that:

- **Canada will reflect on the comments and discussions of STACTIC WP 19-59 and may present a new discussion paper or proposal at the 2020 STACTIC Intersessional Meeting.**

7. New and Pending Proposals on Enforcement Measures: Possible revisions of the NAFO CEM

Canada presented STACTIC WP 19-25 (Revised) outlining a proposal for adjustments to multiple flap-type topside chafers (Annex III.B.2 of the NAFO CEM). Contracting Parties thanked Canada for the proposal and agreed to forward it to the Commission for adoption.

Norway presented STACTIC WP 19-48 outlining a proposal regarding an amendment to Article 13.6 of the NAFO CEM to restrict the use of multiple flap-type topside chafers to fisheries using smaller mesh sizes. Contracting Parties noted that the mesh size mainly used in NAFO fisheries is 130mm and suggested that could be used rather than 80mm or 100mm as proposed by Norway. The European Union questioned the utility of this revision as the chafers are used over the codend where that there is no more concern for selectivity. Other Contracting Parties may not share the view of the European Union that there are no concerns for selectivity in the codend where the chafers are attached. Norway agreed to reflect on the discussion and may present the working paper at the 2020 STACTIC Intersessional Meeting.

Canada presented STACTIC WP 19-27 (Revised) outlining a proposal to update production logbook and stowage plans at the request of inspectors. Contracting Parties thanked Canada for the proposal, and supported the concept of the proposal, but offered suggestions on the wording. Contracting Parties agreed to forward STACTIC WP 19-27 (Rev. 4) to the Commission for adoption.

Canada presented STACTIC WP 19-30 (Revised) outlining a joint Canada and European Union proposal amending the use of the MZZ (unspecified) species code in Article 28.6.g of the NAFO CEM. The United States of America expressed concerns about the removal of the reference to the FAO ASFIS List of Species for Fishery Statistics, and the proposal was revised to retain that text. It was agreed to forward STACTIC WP 19-30 (Rev. 2) to the Commission for adoption.

The Chair highlighted STACTIC WP 19-44, agreed at the 2019 STACTIC Intersessional Meeting, outlining the deletion of footnote 1 in Annex II.J of the NAFO CEM. Contracting Parties noted that there were several codes in Annex II.J that should be reviewed at the 2020 STACTIC Intersessional Meeting. It was agreed to forward STACTIC WP 19-44 to the Commission for adoption.

Canada presented STACTIC WP 19-56 clarifying the distribution of the notification of infringements in Article 37.5 of the NAFO CEM. Contracting Parties thanked Canada for the proposal and agreed to forward it to the Commission for adoption.

The European Union presented STACTIC WP 19-49 outlining a proposal to revise the observer reporting template in Annex II.M of the NAFO CEM to align with the revisions made to the observer program at the 2018 Annual Meeting. Contracting Parties thanked the European Union for their efforts in creating the new templates and offered some minor revisions presented in STACTIC WP 19-49 (Revised). The European Union requested that the Secretariat translate the new reporting template into the Excel file format and develop instructions to be used by the observers and included in the Observer application currently in development by the NAFO Secretariat. Canada and the European Union agreed to review the templates and instructions once they are completed by the Secretariat. Japan noted that they will continue to modify the template to include a Japanese translation of the table headings for easier use by their observers. It was agreed to forward STACTIC WP 19-49 (Revised) to the Commission for adoption.

Norway presented STACTIC WP 19-47 outlining a proposal regarding the inclusion of vessels from IUU lists of other RFMOs on the NAFO IUU list. Norway noted that this proposal was also discussed in PECMAC (the compliance committee of the North East Atlantic Fisheries Commission (NEAFC)) and that they agreed to forward to the NEAFC Annual Meeting a proposal to include several other RFMO IUU lists on the preliminary IUU list (A list) to be reviewed by PECMAC prior to listing on the confirmed B list. It was noted that if NEAFC adopts the PECMAC recommendation, this would mean that this IUU list would automatically be included in the NAFO list, which may present problems. Contracting Parties were supportive of the concept of the proposal but requested to defer discussions to the 2020 STACTIC Intersessional Meeting. The United States emphasized that it could only agree to including vessels from other RFMOs IUU lists if their IUU listing processes were sufficiently similar to NAFOs.

The European Union presented STACTIC WP 19-50 outlining a proposal to migrate the observer tasks related to sharks to Article 30 of the NAFO CEM for clarification. It was agreed to forward STACTIC WP 19-50 to the Commission for adoption.

The European Union presented STACTIC WP 19-52 outlining a proposal for clarification on the timing of the closure of the 3M redfish fishery, proposing it would be 24:00UTC on the day prior to the date projected by the NAFO Secretariat. Contracting Parties expressed concerns with closing the fishery the day prior, and that 24:00UTC on the date provided by the Secretariat would provide the clarity needed and reduce the risk of having the fishery close with quota remaining. It was agreed to forward STACTIC WP 19-52 (Revised) to the Commission for adoption.

Canada presented STACTIC WP 19-57 outlining a proposal on content adjustment to add the RJ field (discards) to the COX report. Contracting Parties were supportive of the proposal but offered some clarifying edits and agreed to forward STACTIC WP 19-57 (Revised) to the Commission for adoption.

Canada presented STACTIC WP 19-58 outlining a proposal for adjustments to the OBR Report and reporting elements in Annex II.G and II.D.c of the NAFO CEM in response to a recommendation from the 2019 STACTIC Intersessional Meeting. Contracting Parties thanked Canada for their work and noted a small discrepancy between the LB and HA elements in Annex II.D.c, which were corrected in STACTIC WP 19-58 (Revised). It was agreed to forward STACTIC WP 19-58 (Revised) to the Commission for adoption.

The United States of America presented STACTIC WP 19-63 outlining a proposal to clarify the definition of directed fishery and the obligations of Contracting Parties and vessels. Contracting Parties thanked the United States of America for the proposal but felt that more time was required for review. It was agreed to defer discussions on STACTIC WP 19-63 to the 2020 STACTIC Intersessional Meeting.

The United States of America presented STACTIC WP 19-66 outlining a proposal for addressing incompatible measures for longline vessels. The United States noted that this proposal was originally presented at the 2019

STACTIC Intersessional Meeting as STACTIC WP 19-41 and has been modified following the receipt of comments from other Contracting Parties. Several Contracting Parties noted some concerns with the proposal including the introduction of other gears (e.g. pots, traps, anchored gillnets, etc…) and noted that the changes were very substantial and required more time for review. It was agreed to defer the discussion of STACTIC WP 19-66 to the 2020 Intersessional Meeting and that Contracting Parties were invited to provide comments on the latest draft of the proposal to the United States of America in advance of the meeting.

It was **agreed** that:

- **The proposed changes to the NAFO CEM relating to adjustments to multiple flap-type topside chafers outlined in STACTIC WP 19-25 (Revised) be forwarded to the Commission for adoption.**
- **The proposed changes to the NAFO CEM requiring that the inspectors be updated with information on the processed and stowed catch from the day of the inspection outlined in STACTIC WP 19-27 (Rev. 4) be forwarded to the Commission for adoption.**
- **The proposed changes to the NAFO CEM relating to the use of the MZZ species code in Article 28.6.g outlined in STACTIC WP 19-30 (Rev. 2) be forwarded to the Commission for adoption.**
- **The proposed changes to the NAFO CEM relating to the deletion of footnote 1 in Annex II.J outlined in STACTIC WP 19-44 be forwarded to the Commission for adoption.**
- **The codes outlined in Annex II.J of the NAFO CEM be reviewed at the 2020 STACTIC Intersessional Meeting.**
- **The proposed changes to the NAFO CEM on clarifying the distribution of the notification of infringements in Article 37.5 outlined in STACTIC WP 19-56 be forwarded to the Commission for adoption.**
- **The proposed revisions to Annex II.M of the NAFO CEM outlined in STACTIC WP 19-49 (Revised) be forwarded to the Commission for adoption.**
- **The NAFO Secretariat translate the revisions to Annex II.M outlined in STACTIC WP 19-49 (Revised) to the Excel file format and develop instructions for observers with assistance from Canada and the European Union.**
- **Discussions on STACTIC WP 19-47 outlining a proposal regarding the inclusion of vessels from IUU lists of other RFMOs on the NAFO IUU list be deferred to the 2020 STACTIC Intersessional Meeting.**
- **The proposed changes to the NAFO CEM for the migration of the observer tasks related to sharks to Article 30 for clarification outlined in STACTIC WP 19-50 be forwarded to the Commission for adoption.**
- **The proposed changes to the NAFO CEM relating to the timing of the closure of the 3M redfish fishery outlined in STACTIC WP 19-52 (Revised) be forwarded to the Commission for adoption.**
- **The proposed changes to the NAFO CEM relating to the addition of the RJ field to COX report outlined in STACTIC WP 19-57 (Revised) be forwarded to the Commission for adoption.**
- **The proposed changes to the NAFO CEM relating to adjustments to the OBR Report outlined in STACTIC WP 19-58 (Revised) be forwarded to the Commission for adoption.**

- **Discussions on STACTIC WP 19-63 outlining a proposal to clarify the definition of directed fishing and the obligations of Contracting Parties and vessels be deferred to the 2020 STACTIC Intersessional Meeting.**

- **Discussions on STACTIC WP 19-66 outlining a proposal for addressing incompatible measures for longline vessels be deferred to the 2020 STACTIC Intersessional Meeting.**

8. Discussions on the interpretation of Article 10 of the NAFO CEM

The Chair opened this agenda item noting that at the March 2019 meeting of the EDG, and at the 2019 STACTIC Intersessional Meeting, Contracting Parties discussed the issue of the varying interpretations of Article 10 of the NAFO CEM, mainly the interpretation of "engaged in the Greenland halibut fishery", and what that means for port inspection coverage. Contracting Parties continued the discussions at this meeting, but no consensus could be reached on the interpretation of the 100% port inspection coverage requirement. The two views expressed were that 1. port inspections are required for all landings of Greenland halibut (as outlined in Article 10.4.e) or 2. that port inspections were required only when a vessel was conducting a directed fishery for Greenland halibut.

As no consensus could be reached on this item, STACTIC agreed to request guidance from the Commission on the interpretation of these measures.

The European Union requested that, should the Commission consider that the 100% port inspection coverage rate is not compulsory, the Contracting Parties that do not apply this 100% rate, table a proposal to modify NAFO CEM Article 10.4.e accordingly, at the 2020 STACTIC Intersessional Meeting.

Denmark (in respect of the Faroe Islands and Greenland) noted, that the headline in Article 10 is for vessels that are authorized to fish as described in Article 10.4.b and 10.4.d and the article did not apply for vessels who have some single Greenland halibut as bycatch.

It was **agreed** that:

- **STACTIC request that the Commission advise on the interpretation of the port inspection requirements outlined in Article 10 (Greenland halibut) of the NAFO CEM, clarifying if the correct interpretation of the measure is 1. port inspections are required for all landings of Greenland halibut (as outlined in Article 10.4.e) or 2. that port inspections were required only when a vessel was conducting a directed fishery for Greenland halibut**

9. NAFO MCS website and application development

The European Union presented STACTIC WP 19-53 outlining proposed amendments to the NAFO CEM to classify levels of access of all information and to define procedures for posting of information to the NAFO MCS Website via the NAFO Secretariat. The European Union highlighted that the proposal will streamline the posting processes and allow access for all Contracting Party representatives who are responsible for inspections, either at sea or in port. Contracting Parties thanked the European Union for their work and offered small revisions. It was agreed to forward STACTIC WP 19-53 (Revised) to the Commission for adoption.

The European Union presented STACTIC WP 19-54 outlining a proposal defining the process to grant access to the NAFO MCS Website to individuals within Contracting Parties. Contracting Parties thanked the European Union for the proposal and offered some clarifications and agreed to forward STACTIC WP 19-54 (Revised) to the Commission for adoption.

The European Union presented STACTIC WP 19-55 outlining a confidentiality disclaimer for individuals when accessing the NAFO MCS Website. Contracting Parties thanked the European Union for this proposal noting its

importance as more and more information is being uploaded to the NAFO MCS Website. Contracting Parties offered clarification on the text of the disclaimer and agreed that the NAFO Secretariat will add the disclaimer outlined in STACTIC WP 19-55 (Revised) to the NAFO MCS Website.

The NAFO Secretariat presented an update on the current development of the Observer Reporting Application in STACTIC WP 19-67. The Secretariat reported that the application has been tested at sea by Canadian and European Union observers and they have provided some feedback to the Secretariat. Some users reported that they found the device was small and difficult to use for data entry, and the Secretariat agreed to investigate the use of a larger tablet or developing a web-based application that could be used by the observer on a laptop. Another point was that some vessels were not equipped with internet capabilities, so there was no means to transmit the data directly from the vessel, and the Secretariat was investigating satellite internet devices and Contracting Parties suggested that the Iridium devices, as they have made advancements in their global coverage. Contracting Parties thanked the Secretariat for their work on the application and encouraged the Secretariat to continue its development.

In an in-camera session, the NAFO Secretariat provided a demonstration on the recent enhancements to the NAFO MCS website that had been requested by NAFO inspectors. Contracting Parties thanked the Secretariat for the work that has been done to the website noting that the changes will enhance the abilities of the inspectors to conduct risk assessments to improve the effectiveness of inspections. Contracting Parties encouraged the Secretariat to continue working on the enhancements to the MCS Website.

It was **agreed** that:

- **The proposed changes to the NAFO CEM relating to defining a procedure for posting of information to the MCS Website outlined in STACTIC WP 19-53 (Revised) be forwarded to the Commission for adoption.**
- **The proposed changes to the NAFO CEM relating to the process for granting access to the MCS website outlined in STACTIC WP 19-54 (Revised) be forwarded to the Commission for adoption.**
- **The NAFO Secretariat include the disclaimer outlined in STACTIC WP 19-55 (Revised) on the NAFO MCS Website.**
- **The NAFO Secretariat continue the work on the NAFO Observer Application and enhancements to the NAFO MCS Website and provide an update at the 2020 STACTIC Intersessional Meeting.**

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

The Chair highlighted STACTIC WP 19-11 outlining proposed editorial changes in the NAFO CEM that the EDG forwarded to STACTIC as they required further discussion. On Article 5.2, Contracting Parties had lengthy discussions on the interpretations for the bycatch calculations, the use of Annex I.A species in the calculations, events that trigger the move along provisions, etc... noting the difficulties with implementing and enforcing the current bycatch provisions with respect to the calculations for any one haul in NAFO. STACTIC agreed that discussions will continue on these issues in the next in person EDG meeting. The European Union agreed to draft a document outlining their interpretations of these provisions to facilitate these discussions.

On Article 10.5.d.i, it was agreed that the proposed change to replace the word *notification* with *confirmation* was strictly editorial, and would be forwarded to the Commission for adoption in STACTIC WP 19-11 (Revised).

On Article 13.9, Contracting Parties expressed concerns with the proposed change to add a reference to the *FAO Guidelines on the Marking of Gears* as it was recently implemented and Contracting Parties would need to verify if they were currently following these guidelines domestically, and agreed to report back on this topic at

the 2020 STACTIC Intersessional Meeting. Denmark (in respect of Faroe Islands and Greenland) shared STACTIC WP 19-69 for information on Greenland's current practices for the marking of gear, which follows the *Convention on Conduct of Fishing Operations in the North Atlantic*.

On Article 28.3.b, it was noted that the concept of the smallest geographical area had already been addressed and a proposal adopted in STACTIC WP 19-21 from the 2019 STACTIC Intersessional Meeting.

On Article 38.1.c, Contracting Parties agreed that the discussions on these items should also be included in the next EDG meeting.

The NAFO Secretariat presented STACTIC WP 19-45 outlining potential edits to the 2019 NAFO CEM flagged by the NAFO Secretariat for review. STACTIC agreed that Article 30.20 of the NAFO CEM should be deleted in the 2020 CEM as the provision expires on 01 January 2020. STACTIC also agreed that Annex II.H of the NAFO CEM should be deleted as there is no longer a reference to it in the CEM, and observers are now required to send daily OBR reports, so there is no need for weekly OBR reports. These changes are reflected in STACTIC WP 19-45 (Revised). The Secretariat also highlighted a discrepancy in the VL field definitions in Annex II.C and II.D, as well as a lack of reference in the CEM to Annex II.I Part B, and Contracting Parties agreed to forward these issues, now highlighted in STACTIC WP 19-70, to the EDG for review.

It was **agreed** that:

- **The EDG, at their next face to face meeting, have a thorough discussion on the interpretations of the bycatch provisions in the NAFO CEM.**
- **The European Union will draft a discussion paper outlining their interpretations of the bycatch provisions to facilitate discussions at the next face to face EDG meeting.**
- **Contracting Parties will follow up on the domestic implementation of the *FAO guidelines on "Marking of gears"* and report back a the 2020 STACTIC Intersessional Meeting.**
- **The proposed editorial changes to the NAFO CEM outlined in STACTIC WP 19-11 (Revised) be forwarded to the Commission for adoption.**
- **The proposed editorial changes to the NAFO CEM outlined in STACTIC WP 19-45 (Revised) be forwarded to the Commission for adoption.**
- **To forward the items outlined in STACTIC WP 19-70 to the EDG for review at their next meeting.**
- **The EDG will meet virtually in the fall of 2019 to review the drafted changes to the NAFO CEM completed by the NAFO Secretariat following the adoption of the proposed changes to the NAFO CEM by the Commission.**
- **The EDG will have a face to face meeting back to back with the ad hoc working group on STACTIC participation in March 2020. Venue and dates to be determined.**

11. Review and Evaluation of Practices and Procedures

The NAFO Secretariat presented STACTIC WP 19-46 outlining the new documents from Canada, Denmark (in respect of the Faroe Islands and Greenland), and the United States of America on the Greenland shark identification and data collection methods.

The European Union noted that they intend to share some risk assessment methodologies for at-sea and in port inspections in the near future, as well as a checklist for the conduct of port inspections. Denmark (in respect of

the Faroe Islands and Greenland) noted they are updating their instructions given to observers on discards and garbage disposal at-sea and that they will upload this to the Practices and Procedures webpage.

12. Review of Current IUU list Pursuant to NAFO CEM, Article 53

The NAFO Secretariat presented the NAFO IUU List update in STACTIC WP 19-14 and noted that there have been no changes since the 2019 STACTIC Intersessional Meeting.

13. Review of the reporting of provisional monthly catch (Article 28.8.a)

The European Union highlighted STACTIC WP 19-22 (Revised) outlining a proposal to revise the provisional monthly catch reporting requirement in Article 28. The European Union noted that the current revision included an exemption from the provisional monthly catch reporting requirement for Contracting Parties who are submitting daily catch reports. Denmark (in respect of the Faroe Islands and Greenland) expressed concerns with the interpretations of Article 28, as it is not clear whether nil-catch reports should be submitted. Contracting Parties agreed with the context of the proposal and offered clarifying revisions and agreed to forward STACTIC WP 19-22 (Rev. 2) to the Commission for adoption.

It was **agreed** that:

- **The proposed changes to the NAFO CEM related to the provisional monthly catch reporting requirement in Article 28 outlined in STACTIC WP 19-22 (Rev. 2) be forwarded to the Commission for adoption.**

14. Bycatches and Discards

Denmark (in respect of the Faroe Islands and Greenland) presented two discussion papers (STACTIC WP 19-61 and STACTIC WP 19-62) and requested that they be forwarded to the to the EDG for the discussions on bycatch provisions.

It was **agreed** that:

- **STACTIC WP 19-61 and STACTIC WP 19-62 be forwarded to the EDG for discussion at their next face to face meeting.**

15. Discussion of data classification and access rights

The NAFO Secretariat highlighted STACTIC WP 19-16 an update from the ad hoc Virtual NAFO Website Re-design Working Group, requesting that STACTIC review the fisheries information available on the NAFO Members pages and determine if this information should be posted to the NAFO public website. The NAFO Secretariat noted that this paper was presented at the 2019 STACTIC Intersessional Meeting, and that Contracting Parties requested a walk through of the website items to allow for further review. Contracting Parties agreed that the NAFO vessel registry should be made available on the NAFO public website, noting it includes notified vessels that have been authorized to fish in NAFO within the last two years, and that the vessel flag State, vessel name, and radio call sign be posted to the NAFO public website.

On the Research Vessel list, Contracting Parties noted that there may be some sensitive information in the current notifications that are posted and requested the NAFO Secretariat to consolidate the information for presentation at the 2020 STACTIC Intersessional Meeting and that STACTIC will review the consolidated information to determine if it is appropriate to be posted to the NAFO public website.

On the Provisional Catch information, Contracting Parties agreed that this information should remain on the NAFO Members pages as it contains provisional catch information that should not be made available to the public.

On the Practices and Procedures webpage, Contracting Parties noted that some of the information available on this page may not be appropriate for the public website, but required more time to review the information. The European Union noted that some information, such as risk assessment methodologies may be better suited for posting to a Practices and Procedures page on the NAFO MCS Website, while other information would be suited for the public website. It was agreed that Contracting Parties review the material on the Practices and Procedures page to determine which information may be posted to the public website, and which information should be migrated to the NAFO MCS Website at the 2020 STACTIC Intersessional Meeting.

On the notification of lost gear, Contracting Parties agreed that the information on location and type of gear that was lost should be public information, but that some details currently posted to the NAFO Members pages should not be included. Contracting Parties requested the Secretariat to consolidate the location and gear details information, as well as create a map showing the locations of the lost gear for presentation at the 2020 STACTIC Intersessional Meeting, and STACTIC will determine if it is appropriate to be posted to the NAFO public website.

The European Union also requested that the information on the uptake of the 3M redfish fishery be made available on the NAFO public website so that operators can have access to this information in real time. Contracting Parties agreed that the 3M redfish catch uptake (only showing the total catch amount for the stock, no specific vessel catch details) will be posted to the NAFO public website.

The United States of America presented STACTIC WP 19-60 (Revised) outlining a proposal to improve transparency by making STACTIC working papers publicly available on the NAFO public website, unless otherwise requested by a Contracting Party or subject to confidentiality. The United States of America highlighted in the proposal NAFO's commitment to transparency in past meetings and documents and that STACTIC has the authority to adopt this decision within its own group. The United States of America also noted that STACFAD has committed to post their working papers to the NAFO public website and recommended this year to the Commission to further consider what documents should be included on the public website. Contracting Parties raised concerns about the proposal, noting that some working papers contain sensitive information and that, if there was going to be a procedure in place, it should be that the papers are confidential unless a decision is taken to make them public. This would ensure that no working papers with sensitive information get posted inadvertently. The United States of America noted that there are no current rules restricting a Contracting Party from posting working papers to the public website if they choose, and STACTIC agreed that this could be done, but some guidance for the NAFO Secretariat may be required. It was noted that the NAFO Secretariat could use their discretion to contact the involved Contracting Parties if a Contracting Party submitted a working paper for the public website that contained information relating to another Contracting Party.

It was **agreed** that:

- **The NAFO vessel registry (vessel flag State, vessel name, radio call sign) be posted to the NAFO public website.**
- **The NAFO Secretariat consolidate the information on the Research Vessels page of the NAFO Members website for review at the 2020 STACTIC Intersessional Meeting, and STACTIC will determine if it is appropriate to be posted to the NAFO public website.**
- **The Provisional Catch Information page of the NAFO Members pages will remain on the NAFO Members pages website and not be posted to the NAFO public website.**

- **Contracting Parties review the material on the Practices and Procedures page to determine which information may be posted to the public website, and which information should be migrated to the NAFO MCS Website at the 2020 STACTIC Intersessional Meeting.**

- **The NAFO Secretariat consolidate the location and gear details information, and create a map showing the locations of the lost gear for review at the 2020 STACTIC Intersessional Meeting, and STACTIC will determine if it is appropriate to be posted to the NAFO public website.**

- **The 3M redfish fishery real time catch uptake (showing total catch amounts) be posted to the NAFO public website.**

- **Any Contracting Party can request to have their own STACTIC working papers posted to the NAFO public website going forward.**

16. Discussion on Garbage Disposal and Labour Conditions Onboard Vessels

The European Union presented STACTIC WP 19-33 (Revised) outlining a proposal to address marine pollution in the NAFO CEM and noted this revision incorporated comments received from Contracting Parties since the 2019 STACTIC Intersessional Meeting. Japan noted that they agreed with the concept presented in the proposal but requested revisions, which were presented in STACTIC WP 19-33 (Rev. 2). Norway noted that there are other international organizations that cover these issues and that a reference to MARPOL would be sufficient for inclusion in the NAFO CEM. The European Union agreed to defer the proposal for discussion at the 2020 STACTIC Intersessional meeting.

Iceland recalled the decision at the 2018 Annual Meeting for Contracting Parties to submit a Single Point of Contact (SPOC) on the issue of labour conditions onboard vessels in the NRA to the NAFO Secretariat to post to the MCS Website and the Chair encouraged Contracting Parties to submit this information. Contracting Parties agreed to submit this information to the NAFO Secretariat, and some Contracting Parties provided their information during the meeting.

It was **agreed** that:

- **Discussion on STACTIC WP 19-33 (Rev. 2) outlining a proposal to address marine pollution in the NAFO CEM be deferred to the 2020 STACTIC Intersessional Meeting.**

- **Contracting Parties would continue to submit their Single Point of Contact (SPOC) on the issue of labour conditions onboard vessels to the NAFO Secretariat to post on the MCS Website.**

17. Discussion of the reporting of shark catches in the NAFO Regulatory Area

Canada provided an update that they are still working with Denmark (in respect of the Faroe Islands and Greenland) and the United States of America on the development of standardized methods to be used in NAFO for the identification and data collection requirements for Greenland sharks. Canada, on behalf of the group, have asked that Contracting Parties consider two questions, whether Contracting Parties have any additional information that they could provide for consideration and the second to ensure the most inclusive collection of insights, invites other Contracting Parties to participate in this group.

The European Union agreed to participate in the work of this group.

The group will discuss next steps and timelines intersessionally and provide an update at the 2020 STACTIC Intersessional Meeting.

It was **agreed** that:

- **Canada, Denmark (in respect of the Faroe Islands and Greenland), the European Union and the United States of America (with an invitation to other Contracting Parties to participate) will continue to work on standardization for the identification and data collection requirements for Greenland sharks and provide an update at the 2020 STACTIC Intersessional Meeting.**

- **Interested Contracting Parties submit information to the group by 30 November 2019.**

18. Other Business

a. SC Survey

The Chair highlighted STACTIC WP 19-64 outlining a survey request from the Scientific Council to STACTIC relating to provide the Scientific Council with information on the source of data included in the NAFO Observer Program Database. Contracting Parties filled out the survey and the results presented in STACTIC WP 19-64 (Revised) will be forwarded to the Scientific Council for information.

It was **agreed** that:

- **The survey results presented in STACTIC WP 19-64 (Revised) be forwarded to the Scientific Council for information.**

b. Inspectors Workshop

The European Union noted that there have been two NAFO Inspectors Workshops in collaboration with Canada and that they have been extremely productive sessions that have resulted in a lot of practical discussions and improvements to the NAFO CEM. The European Union highlighted that the next session of the NAFO Inspectors Workshop will take place in the Azores from 29-31 October 2019. The European Union presented the draft Agenda for the workshop and invited all other Contracting Parties to send interested inspectors. The European Union agreed to forward logistical information to the NAFO Secretariat for circulation and requested confirmation of attendance by 10 October 2019. It was agreed that the NAFO Secretariat will circulate a reminder to STACTIC Participants on 26 September 2019.

It was **agreed** that:

- **The European Union will provide the logistical information for the upcoming NAFO Inspectors Workshop to the NAFO Secretariat.**

- **The NAFO Secretariat will circulate a reminder for the NAFO Inspectors Workshop and the logistical information to STACTIC participants by 26 September 2019.**

- **Contracting Parties interested in the upcoming NAFO Inspectors Workshop will confirm their attendance with the European Union by 10 October 2019.**

c. Article 30

The Chair highlighted the importance of reviewing the implementation of the revisions to the NAFO Observer Program that were adopted at the 2018 NAFO Annual Meeting. The Chair highlighted Article 30.10.d outlining the requirements for Contracting Parties to report on their implementation of Article 30 by 01 March of each year and Article 30.18.d outlining the NAFO Secretariats' responsibilities to collate and present the reports from Contracting Parties to STACTIC at the Intersessional Meetings. It was agreed that the NAFO Secretariat would circulate a reminder to STACTIC participants by 01 February 2020 of the 01 March reporting

requirements and circulate the draft reporting templates that were discussed at the 2018 Annual Meeting. It was also agreed that the review of Article 30 be added to the 2020 STACTIC Intersessional agenda.

It was **agreed** that:

- **The NAFO Secretariat will circulate the draft reporting templates for the NAFO Observer program to STACTIC participants.**
- **The NAFO Secretariat will circulate a reminder to STACTIC participants on 01 February 2020 of the reporting requirements outlined in Article 30.10.d of the NAFO CEM.**
- **The review of Article 30 be added to the 2020 STACTIC Intersessional Meeting agenda.**

d. Port State Measures

The Russian Federation presented STACTIC WP 19-65 outlining a proposal to modify the timing for port States to respond to the submission of a PSC1 from "without delay" to within 12 hours. Contracting Parties noted concerns with the proposal as there have been instances where 12 hours have been exceeded due to verification processes with flag States, and office staffing. Russia revised the proposal and presented it in STACTIC WP 19-65 (Rev. 2) replacing the words "without delay" with "immediately". Contracting Parties expressed the same concerns with the interpretation of immediately. The European Union highlighted that the proposal was in response to one case and that measures should not be amended to accommodate one issue with one vessel.

Several Contracting Parties noted that they can relate to the concerns expressed by Russia in relation to unexpected delays in the process, which can create a burden on the vessel operators. However, they also expressed there are many constraints within port States that make them unable to commit to such restricted time constraints. Contracting Parties agreed to add the discussion on the practical application of the port state measures to the agenda for the 2020 STACTIC Intersessional Meeting, including a discussion of the emerging technologies being used to streamline the PSC processes. It was agreed that the NAFO Secretariat continue its work on the development of the electronic PSC process in NAFO.

The European Union highlighted an issue that occurred with one of its vessels that required entry into port for reasons of force majeure and recalled that in such cases that NAFO CEM Article 42 applies.

It was **agreed** that:

- **The discussion on the practical application of the port state measures be added to the agenda for the 2020 STACTIC Intersessional Meeting.**
- **The NAFO Secretariat continue its work on the development of the electronic PSC process in NAFO**

19. Election of Chair and vice-Chair

At the 2017 Annual Meeting, Judy Dwyer (Canada) was elected as Chair and Aronne Spezzani (European Union) was re-elected as vice Chair. The Chair noted that the two-year period has ended and opened the floor for nominations for the Chair and vice-Chair.

The European Union nominated Kaire Märtin (European Union) to serve as the next Chair of STACTIC. Contracting Parties expressed their unanimous support for the election of Kaire Märtin to serve as STACTIC Chair for a period of two years.

The United States of America nominated Patrick Moran (United States of America) to serve as the next vice-Chair of STACTIC. Contracting Parties expressed their unanimous support for the election of Patrick Moran to serve as STACTIC vice-Chair for a period of two years.

It was **agreed** that:

- **Kaire Märtin (European Union) will serve as the next Chair of STACTIC for a period of two years.**
- **Patrick Moran (United States of America) will serve as the next vice-Chair of STACTIC for a period of two years.**

20. Time and Place of next meeting

The next STACTIC Intersessional meeting will be hosted by the Russian Federation in Murmansk from 12-14 May 2020.

21. Adoption of Report

The report was adopted on 26 September 2019, prior to the adjournment of the meeting.

22. Adjournment

The meeting was adjourned at 12:45 hours on 26 September 2019. The Chair thanked France (in respect of St. Pierre et Miquelon) for hosting the meeting and the NAFO Secretariat for their support during the meeting. The Chair also thanked the meeting participants for their cooperation and input. The participants likewise expressed their thanks and appreciation to the Chair for her leadership during her four years as Chair.

Annex 1. List of Participants

Judy Dwyer (Chair) Natasha Barbour Mike Hurley Paul Shea Lloyd Slaney Jerry Walsh	**Canada**
Signe Bork Hansen Meinhard Gaardlykke Mads T. Nedergaard	**Denmark (in respect of the Faroe Islands and Greenland)**
Genadijus Babcionis Alexis Bensch Carlos Chamizo Gema De Frutos Carlos Ferreira Margarita Mancebo Robledo Epp Meremaa Eglė Radaitytė Mario Santos Aronne Spezzani Xosé Tubio	**European Union**
Mehdi Bouchelaghem Laurent Bouvier	**France (in Respect of St. Pierre et Miquelon)**
Jóhann Ásmundsson Birgir H Björnsson Björgólfur H. Ingason	**Iceland**
Kenro IINO Takeshi MIWA Hideki MORONUKI Junichiro OKAMOTO	**Japan**
Kjetil Gramstad Hilde Ognedal	**Norway**
Ilya Skryabin	**Russian Federation**
Haena Lee	**Republic of Korea**
Kathy Cyr Mike Henry Gene Martin Patrick Moran Katie Pohl Eric Reid Mike Sissenwine Richard Usher	**United States of America**
Jana Aker Ricardo Federizon Matt Kendall DJ Laycock	**NAFO Secretariat**

Annex 2. Agenda

1. Opening by the Chair, Judy Dwyer (Canada)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. STACTIC participation
5. Compliance review 2019 including review of apparent infringement reports and of chartering arrangements
6. Measures concerning repeat non-compliance of serious infringements in the NAFO Regulatory Area
7. New and Pending Proposals on Enforcement Measures: Possible revisions of the NAFO CEM
8. Discussions on the interpretation of Article 10 of the NAFO CEM
9. NAFO MCS website and application development
10. Editorial Drafting Group (EDG) of the NAFO CEM
11. Review and Evaluation of Practices and Procedures
12. Review of Current IUU list Pursuant to NAFO CEM, Article 53
13. Review of the reporting of provisional monthly catch (Article 28.8.a)
14. Bycatches and Discards
15. Discussion of data classification and access rights
16. Discussion on Garbage Disposal and Labour Conditions Onboard Vessels
17. Discussion of the reporting of shark catches in the NAFO Regulatory Area
18. Other Business
    a. SC Survey
    a. Inspectors Workshop
    b. Article 30
    c. Port State Measures
19. Election of Chair and vice-Chair
20. Time and Place of next meeting
21. Adoption of Report
22. Adjournment

PART III.
Report of the NAFO Standing Committee on Finance and Administration (STACFAD)

41st Annual Meeting of NAFO, 23-27 September 2019
Bordeaux, France

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

41st Annual Meeting of NAFO, 23-27 September 2019
Bordeaux, France

1. Opening by the Chair, Deirdre Warner-Kramer (USA)

The first session of STACFAD was opened by the Chair, Deirdre Warner-Kramer (USA) at 14:00 hours on Monday, 23 September 2019. The Chair welcomed delegates and members of the NAFO Secretariat to the meeting.

The Chair noted the excellent representation of Contracting Parties as delegates were present from Canada, Denmark (in respect of the Faroe Islands and Greenland), European Union, France (in respect of St. Pierre et Miquelon), Japan, Republic of Korea, Russian Federation and the United States of America (Annex 1).

2. Appointment of Rapporteur

The NAFO Secretariat was appointed as Rapporteur.

3. Adoption of Agenda

The agenda was adopted as circulated (Annex 2).

4. Audited Financial Statements for 2018

Grant Thornton LLP performed the audit for the 2018 fiscal year, in accordance with the NAFO Financial Regulations. The draft financial statements were circulated to the Heads of Delegations and STACFAD delegates in advance of the meeting.

The Secretariat presented the draft Audited Financial Statements of the Northwest Atlantic Fisheries Organization for the year ended December 31, 2018. It was noted that the financial statements will be shown as draft until after they are reviewed by STACFAD and approved by the Organization. The Committee reviewed the statements in detail.

Total expenditures incurred for the fiscal period ending 2018, as shown in the draft financial statements, amounted to $2,281,697, which was $15,303 under the approved budget of $2,297,000. It was noted that the total expenditures included an extraordinary item of $21,789 for the MSC Website in which grant revenue was received to offset the expense. Excluding this extraordinary item, expenses for the year were $37,092 under budget.

The deficiency of revenues over expenditures for 2018 was $79,552. It was also noted that $12,000 was added to the relocation fund, bringing the fund total to $48,000 for future recruitment and relocation costs of internationally recruited staff.

STACFAD recommends that:

- **The 2018 Financial Statements be adopted.**

5. Administrative and Activity Report by NAFO Secretariat

The Executive Secretary highlighted NAFO administrative matters and activities for the period September 2018 to August 2019 (COM Doc. 19-06).

6. Financial Statements for 2019

The Secretariat presented the 2019 Financial Statements (projected to 31 December) to the Committee. The operating budget for 2019 was approved at $2,274,000 while expenditures for the year are projected to be at $2,236,000, or $38,000 under the approved budget. Noteworthy expense variances for the year were as follows:

- Salaries being over budget due to the release of new salary tables;
- Annual Meeting costs being below budget due to the hosting of the Annual Meeting in France; and
- Fewer SC Intersessional meetings being held than expected.

All remaining 2019 operating expenses are anticipated to be on or near budget for the year. The above noted cost savings of $38,000 will be returned to the accumulated surplus and will be available to reduce Contracting Parties contributions in 2020.

Assessed Contributions

At the beginning of 2019, the accumulated surplus had $308,142, which was deemed to be in excess of the needs of the Organization and was allocated towards the 2019 operating budget. Therefore, in order to meet the 2019 operations budget of $2,274,000, Contracting Parties were assessed contributions in the amount of $1,965,858.

Balance Sheet

The Organization's cash position at 31 December 2019 is estimated to be $681,246. The cash balance should be sufficient to finance appropriations in early 2020 pending the receipt of annual payments by Contracting Parties in the Spring of 2020. All contributions due from Contracting Parties for 2019 have been received.

An update on the activities of the Scientific Research and other Trust Funds, including contributions received and disbursed, for 2019 was presented in STACFAD WP 19-07.

7. Review of Accumulated Surplus and Funds

a. Accumulated Surplus, Contingency Fund and Relocation Fund

According to the Financial Regulations, STACFAD and the Commission shall review the amount available in the accumulated surplus account during each Annual Meeting. The accumulated surplus account shall be set at a level sufficient to temporarily finance operations during the first three months of the year, plus an amount up to a maximum of 10% of the annual budget for the current financial year to be used for unforeseen and extraordinary expenses. In addition, the Organization shall also maintain a recruitment and relocation fund, up to a maximum of $100,000, for relocation costs of internationally recruited staff.

The Secretariat noted the accumulated surplus account at 31 December 2019 is estimated to be $659,000.

STACFAD recommends that:

- **The amount maintained in the accumulated surplus account be set at $285,000 of which $200,000 would be sufficient to finance operations during the first three months of 2020, and of which $85,000 would be a contingency fund available to be used for unforeseen and extraordinary expenses.**
- **The recruitment and relocation fund be increased by $12,000 to $60,000 for future recruitment and relocation costs of internationally recruited staff.**

b. Performance Review Fund

The Secretariat proposed establishing a Performance Review Fund (STACAD WP 19-06).

The establishment of this fund would avoid significant increases to the budget every five to seven years to fund a performance review and would allow for annual installments to pre-fund the next performance review.

STACFAD recommends that:

- **Rule 4.5 of the NAFO Financial Regulations be amended to allow for the establishment of a performance review fund within the accumulated surplus account, as follows:**

  The Standing Committee on Finance and Administration and the Commission shall review the amount available in the accumulated surplus account during each annual meeting. Insofar as possible, the Commission shall anticipate unforeseen expenditures during the succeeding three years and shall attempt to maintain the accumulated surplus account at a level sufficient to finance operations during the first three months of the year plus an amount up to a maximum of 10% of the annual budget for the current financial year for use in an emergency in accordance with Rule 4.4.

  In addition, the Organization shall also maintain a recruitment and relocation fund to pay recruitment and relocation costs for incoming and outgoing internationally recruited staff. The recruitment and relocation fund balance shall be kept at a maximum of $100,000.

  In addition, the Organization shall also maintain a performance review fund to pay costs associated with having an external performance review. The performance review fund balance shall be kept at a maximum of $100,000.

- **A Performance Review Fund be established and be set at $15,000 to pay for costs associated with having an external performance review.**

8. Update on the NAFO websites

The NAFO Secretariat provided an update on the NAFO websites including the implementation of all recommendations from the 2018 Annual Meeting (STACFAD WP 19-01). The Committee appreciated the increased functionality. As agreed at the last Annual Meeting, STACFAD noted that all of its 2018 Working Papers are now available on the public website.

The Chair noted that two specific recommendations from the 2018 NAFO Performance Review Panel, are related to the work of the *Ad Hoc Virtual NAFO Website Re-Design Working Group*:

- Recommendation 25, Chapter V.3.1 *"Recommends NAFO reorganizes its website library based on the topics covered. [pg. 36]*

- Recommendation 26, Chapter V.3.2 *"Recommends NAFO makes all working documents publicly available, unless otherwise requested by a Contracting Party or subject to confidentiality rules. [pg. 36]*

In response to Recommendation 25, STACFAD recognized the ongoing work of the NAFO Secretariat to maintain and improve the accessibility of all of the information on the NAFO website, and encouraged this work to continue.

In response to Recommendation 26, to further increase transparency and accessibility, STACFAD recommended that NAFO explore ways to make most meeting documents, including Working Papers, available on the NAFO public website prior to the relevant meeting. STACFAD recognized that such a move would have technological, logistical, and policy implications that would need to be worked through, including how to ensure transparency without impeding efficiency, as well as the process for determination of which Working

Papers may be of a confidential nature and should not be posted. STACFAD therefore recommended that the Secretariat, in conjunction with the *Ad Hoc Virtual NAFO Website Re-Design Working Group,* work over the next year to explore options for making NAFO Working Documents more accessible. This work should explore the operational and policy implications of such a move, including, for example, whether different practices would apply to the Annual Meeting versus intersessional working groups, the process and criteria for determining which types of documents would not be posted in advance, and information security and technological considerations. The virtual Working Group should take due note of the discussions and conclusions of STACTIC on the accessibility of its Working Papers, as well as the practices and experiences of other Regional Fisheries Management Organizations.

In addition to the participation of the Chairs of STACFAD and STACTIC, STACFAD recommended that each Contracting Party identify at least one participant in the virtual Working Group.

STACFAD recommends that:

- **The *Ad Hoc Virtual NAFO Website Re-Design Working Group* to convene in 2020 to address Recommendation 26 of the 2018 NAFO Performance Review Panel and present its recommendations to the Commission at the 2020 Annual Meeting.**
- **Prior to the first meeting of the *Ad Hoc Virtual Working Group*, the NAFO Secretariat to prepare a discussion document including key issues and operational concerns regarding posting of Working Papers to the NAFO public website, as well as practices and procedures from other RFMOs.**
- **To ensure the efficient work of the Virtual Working Group, each Contracting Party identify at least one representative to participate in this work.**

9. Personnel Matters

The Executive Secretary put forward the Database Developer/Programmer-Analyst, Office Administrator and Scientific Information Administrator positions for promotion to the next salary level. The Executive Secretary also proposed that the Fisheries Information Administrator be promoted to the Senior Fisheries Information Administrator.

STACFAD endorses the:

- **Promotion of the Database Developer/Programmer-Analyst, Office Administrator and Scientific Information Administrator positions to the next salary level and also the promotion of the Fisheries Information Administrator to the Senior Fisheries Information Administrator.**

10. Internship Program

The Secretariat presented a report (STACFAD WP 19-02) on the activities and tasks of the two interns in 2019, Javier Guijarro Sabaniel and Anna Wall.

The efforts of Contracting Parties were noted in raising the profile of the NAFO Internship program in their respective countries ensuring a healthy participation. The Committee recognized the considerable benefits of the internship program to the Organization and the intern themselves, and once again endorsed its continuation.

STACFAD recommends that:

- **The internship period be maintained for six (6) months during 2020.**

11. Report on the Annual Meeting of the International Fisheries Commissions Pension Society (IFCPS)

The annual meeting of the International Fisheries Commissions Pension Society (IFCPS) was hosted by NAFO during 15–17 April 2019 in Halifax, Nova Scotia, Canada. The meeting was attended by the Executive Directors and Finance Officers of the seven International Fisheries Commissions with headquarters located in Canada and the United States of America. NAFO was represented by Fred Kingston, Executive Secretary, and Stan Goodick, Deputy Executive Secretary/Senior Finance and Staff Administrator. Also attending the meeting were the IFCPS Directors appointed by the Governments of Canada and the United States of America. Background information on the pension plan, change in custodian, investment policy review, employee booklet, investment performance, employee/employer contributions, as well as the financial status, was presented within the information paper (STACFAD WP 19-03).

The Committee noted that the next triennial valuation of the pension plan is scheduled for 1 January 2020. Any budgetary considerations resulting from the valuation will be addressed at next year's meeting.

The next annual meeting of the IFCPS will be hosted by the U.S. Department of State during 15–17 April 2020 in Washington, DC, USA.

12. Implementation of 2018 Performance Review Panel recommendations

In addition to the two recommendations discussed above under agenda item 8, the Committee reviewed the "*Draft Action Plan for the Implementation of the Recommendations from the 2018 Report of the NAFO Performance Review Panel*", as contained in COM WP 19-22, specifically those assigned for STACFAD's future consideration.

> Recommendation 35, Chapter VII.1 *"Recommends NAFO develops an annual operational plan for the NAFO Secretariat outlining key objectives and specifying resources required to meet these objectives." [pg. 48]*

STACFAD felt that developing an overall operational plan would be beneficial, and it noted that such a plan should be clear and concise with input from the NAFO Secretariat, Chairs of NAFO bodies and Working Groups.

The compilation of relevant operational information into one comprehensive document would allow the Organization to prioritize, identify overlapping workload and allocate resources. The plan could include such items as five-year review of VMEs, multi-annual TACs, and pertinent work plans. STACFAD noted that such a compilation of planned future actions on the management side would complement the strategic plan already under development by the Scientific Council.

STACFAD recommends that:

- **The Secretariat, in consultation with the Chairs of the NAFO bodies and Working Groups, prepare a draft annual operational plan for review by STACFAD at the 2020 Annual Meeting.**

> Recommendation 36, Chapter VII.2 *"Recommends NAFO initiates a process to design a new visual identity for NAFO that reflects the role and responsibilities of the Organization." [pg. 48]*

The Committee felt confident that the capable resources available at the Secretariat can initiate the process to design a new visual identify especially considering the strong established brand identify already present in NAFO.

STACFAD recommends that:

- **The Secretariat initiate a process to design a new visual identity for NAFO that reflects the role and responsibilities of the Organization, for presentation to STACFAD at the 2020 Annual Meeting.**

13. Budget Estimate for 2020

The Committee reviewed the 2020 budget estimate as detailed in COM WP 19-01.

Approved Budget 2019	Preliminary Budget Forecast 2019	Budget Estimate 2020
$2,274,000	$2,315,000	$2,369,000

The 2020 budget estimate of $2,369,000 represents an increase of $95,000 or 4.2% over the prior years approved budget.

The personal services budget accounts for $71,000 or 3.1% of the total increase for 2020. NAFO follows the salary scales of similar positions held in the Public Service of Canada which provide for routine economic and salary step increases. In addition, the budget also includes a provision for approved promotions and a maternity leave.

The sessional meetings budget increased by $46,000. This can be attributed to substantial increases in the cost of hosting an Annual Meeting when held in Halifax versus when the Annual Meeting is hosted by a Contracting Party.

The SC intersessional meetings decreased by $35,000 as no special intersessional meetings are planned for 2020.

The relocation of the NAFO Headquarters, originally expected to occur in 2019, has been delayed until 2020. As the prior year's budget included an additional $5,000 in both the equipment and supplies budget, to cover unforeseen equipment or miscellaneous upgrades as a result of the relocation, these amounts have been carried forward to 2020.

STACFAD recommends that:

- **The budget for 2020 of $2,369,000 (Annex 3) be adopted.**
- **That the Budget Estimate, Preliminary Budget Forecast, and Preliminary Calculation of Billing for Contracting Parties no longer be considered restricted documents and be posted on the NAFO SharePoint with other Commission Working Papers.**

A preliminary calculation of billing for the 2020 financial year is included in Annex 5.

14. Budget Forecast for 2021 and 2022

STACFAD reviewed the preliminary budget forecast for 2021 ($2,417,000) and 2022 ($2,416,000) (Annex 4) and approved the forecast in principle. It was noted that the budget for 2021 will be reviewed in detail at the next Annual Meeting.

15. Adoption of 2019/2020 Staff Committee Appointees

The NAFO Secretariat has a mechanism in place known as the NAFO Staff Committee to help in the rare event that a conflict cannot be solved internally in which the Staff Committee may be asked to intervene and to assist in achieving a solution through mediation. The Staff Committee has not been called on since its inception in 2005.

The Secretariat members nominated the following people to serve as members of the Staff Committee for September 2019–September 2020: Ignacio Granell (European Union), Brian Healey (Canada) and Deirdre Warner-Kramer (USA).

STACFAD recommends that:

- **The Commission appoint the three Staff Committee nominees for September 2019–September 2020: Ignacio Granell (European Union), Brian Healey (Canada) and Deirdre Warner-Kramer (USA).**

16. Office Relocation Update

The NAFO Secretariat has been informed by the Government of Canada that the new Secretariat's location has been chosen. The new Secretariat office space will be in the Summit Place office building (1601 Lower Water St.) in downtown Halifax, Nova Scotia. The new location will be convenient for NAFO meeting participants due to its close proximity to hotels and eating establishments in downtown Halifax. The headquarters relocation is expected to take place in early 2020.

Canada noted that funding is in place to ensure a smooth transition to the new location. The Secretariat expects that no additional expenses are anticipated to be incurred by the Organization for the move and has not had any indication otherwise from Canada.

STACFAD was pleased to hear the progress on the relocation although the Committee emphasized the importance of ensuring the timing of the relocation not coincide with the Organization's busy cycle leading up the Annual Meeting.

17. Other Business

No other matters were discussed under this agenda item.

18. Election of vice-Chair

According to Rule 5.4 of the NAFO Rules of Procedure: Commission "*The Committee shall elect, to serve for two years, their own Chairperson and Vice-Chairperson, who shall be allowed a vote*."

Robert Fagan (Canada) was nominated and elected as vice-Chair for a two-year term.

19. Time and Place of 2020-2022 Annual Meetings

As previously agreed, the 2020 and 2021 Annual Meetings will be held 21-25 September and 20-24 September, respectively. The meetings will be held in Halifax, Nova Scotia, Canada, unless an invitation to host is extended by a Contracting Party and accepted by the Organization.

STACFAD recommends that:

- **The 2022 Annual Meeting (to be held in Halifax, Nova Scotia, Canada, unless an invitation to host is extended by a Contracting Party and accepted by the Organization) be held 19–23 September 2022.**

The Committee reiterated Contracting Parties strive, whenever possible, to provide more than 12 months notice of the intention to extend an invitation to host a NAFO Annual Meeting to avoid fiscal implications of the Organization having to make a non-refundable deposit to secure conference space.

20. Adjournment

The final session of the STACFAD meeting adjourned at 14:15 hours on 25 September 2019.

Gratitude was expressed to the Committee members for their effective cooperation this week, and to the NAFO Secretariat for its excellent support.

Annex 1. List of Participants

Fagan, Robert Haque, Azra Lavigne, Élise (vice-Chair)	**Canada**
Schroeder, Denise	**Denmark (in respect of the Faroe Islands and Greenland)**
Blazkiewicz, Bernard Marot, Laura	**European Union**
Monneau, Marianna	**France (in respect of St. Pierre et Miquelon)**
Shinohara, Shogo	**Japan**
Choe, Donghwah	**Republic of Korea**
Badina, Julia	**Russian Federation**
Mencher, Elizabethann Warner-Kramer, Deirdre (Chair)	**United States of America**
Kingston, Fred Goodick, Stan LeFort, Lisa Pacey, Alexis	**NAFO Secretariat**

Annex 2. Agenda

1. Opening by the Chair, Deirdre Warner-Kramer (USA)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Audited Financial Statements for 2018
5. Administrative and Activity Report by NAFO Secretariat
6. Financial Statements for 2019
7. Review of Accumulated Surplus and Funds
    a. Review of Accumulated Surplus, Contingency and Relocation Fund
    b. Performance Review Fund
8. Update on the NAFO websites
9. Personnel Matters
10. Internship Program
11. Report of the Annual Meeting of the International Fisheries Commissions Pension Society (IFCPS)
12. Implementation of 2018 Performance Review Panel recommendations
13. Budget Estimate for 2020
14. Budget Forecast for 2021 and 2022
15. Adoption of 2019/2020 Staff Committee Appointees
16. Office Relocation Update
17. Other Business
18. Election of vice-Chair
19. Time and Place of 2020-2022 Annual Meetings
20. Adjournment

Annex 3. Budget Estimate for 2020

NORTHWEST ATLANTIC FISHERIES ORGANIZATION

Budget Estimate for 2020

(Canadian Dollars)

	Approved Budget 2019	Projected Expenditures 2019	Preliminary Budget Forecast 2020	Budget Estimate 2020
1. Personal Services				
a) Salaries	$1,127,000	$1,137,000	$1,163,000	$1,186,000
b) Superannuation and Annuities	469,000	469,000	469,000	470,000
c) Medical and Insurance Plans	93,000	95,000	100,000	99,000
d) Employee Benefits	67,000	69,000	71,000	72,000
Subtotal Personal Services	1,756,000	1,770,000	1,803,000	1,827,000
2. Additional Help	2,000	2,000	2,000	2,000
3. Communications	24,000	24,000	24,000	24,000
4. Computer Services	51,000	51,000	51,000	54,000
5. Equipment	33,000	33,000	28,000	33,000
6. Fishery Monitoring	41,000	41,000	42,000	42,000
7. Hospitality Allowance	3,000	3,000	3,000	3,000
8. Internship	11,000	10,000	11,000	11,000
9. Materials and Supplies	33,000	33,000	28,000	35,000
10. NAFO Meetings				
a) Sessional	132,000	115,000	134,000	178,000
b) Inter-sessional Scientific	60,000	30,000	60,000	25,000
c) Inter-sessional Other	35,000	31,000	35,000	37,000
Subtotal NAFO Meetings	227,000	176,000	229,000	240,000
11. Other Meetings and Travel	34,000	35,000	32,000	39,000
12. Professional Services	45,000	44,000	48,000	45,000
13. Publications	14,000	14,000	14,000	14,000
	$2,274,000	$2,236,000	$2,315,000	$2,369,000

Notes on Budget Estimate 2020
(Canadian Dollars)

Item 1(a)	**Salaries** Salaries budget estimate for 2020.		$1,186,000
Item 1(b)	**Superannuation and Annuities** Employer's pension plan which includes employer's contributions, administration costs, actuarial fees and the required annual payment towards previous pension plan deficits.		$470,000
Item 1(c)	**Group Medical and Insurance Plans** Employer's portion of Canada Pension Plan, Employment Insurance, Group Life Insurance, Long Term Disability Insurance and Medical Coverage.		$99,000
Item 1(d)	**Employee Benefits** Employee benefits as per the NAFO Staff Rules including overtime, repatriation grant, termination benefits, vacation pay, and home leave travel for internationally recruited members of the Secretariat.		$72,000
Item 2	**Additional Support** Other assistance as required.		$2,000
Item 3	**Communications**		$24,000
	Phone, fax and internet services	$18,000	
	Postage and Courier	6,000	
Item 4	**Computer Services** Computer hardware, software, supplies, support and website hosting.		$54,000
Item 5	**Equipment**		$33,000
	Leases (print department printer, photocopier and postage meter)	$15,000	
	Purchases	9,000	
	Office Relocation	5,000	
	Maintenance	4,000	
Item 6	**Fishery Monitoring**		$42,000
	Vessel Monitoring System (VMS) annual maintenance fee including programming changes as required due to changes to CEM	$39,000	
	Oracle database annual maintenance	3,000	

Item 10(a)	**NAFO Sessional Meetings** Annual Meeting, September 2020, Halifax, Canada SC Meeting, June 2020, Halifax, Canada SC Meeting, October 2020		$178,000
Item 10(b)	**NAFO Inter-sessional Scientific Meetings** Provision for inter-sessional meetings and a general provision for unforeseen expenses necessarily incurred by SC required for the provision of answering requests for advice from the Commission.		$25,000
Item 10(c)	**NAFO Inter-sessional Other** General provision for Commission inter-sessional meetings.		$37,000
Item 11	**Other Meetings and Travel** International Meetings regularly attended by the NAFO Secretariat which may include the following: Aquatic Sciences and Fisheries Abstracts (ASFA), Committee on Fisheries (COFI), Co-ordinating Working Party on Fishery Statistics (CWP), Fisheries Resources Monitoring Systems (FIRMS), International Fisheries Commissions Pension Society (IFCPS), Regional Fishery Body Secretariats' Network (RSN), United Nations		$39,000
Item 12	**Professional Services**		$45,000
	Professional Services (audit, consulting, legal fees, and insurance)	$29,000	
	Professional Development and Training	11,000	
	Public Relations	5,000	
Item 13	**Publications** Production costs of NAFO publications, booklets, brochures, posters, etc., which may include the following: Conservation and Enforcement Measures, Convention, Inspection Forms, Journal of Northwest Atlantic Fishery Science, Meeting Proceedings, Rules of Procedure, Scientific Council Reports, Staff Rules, Secretariat Structure, etc.		$14,000

Annex 4. Preliminary Budget Forecast for 2021 and 2022

NORTHWEST ATLANTIC FISHERIES ORGANIZATION
Preliminary Budget Forecast for 2021 and 2022
(Canadian Dollars)

		Preliminary Budget Forecast 2021	Preliminary Budget Forecast 2022
1	Personal Services		
	a) Salaries	$1,217,000	$1,214,000
	b) Superannuation and Annuities	474,000	474,000
	c) Medical and Insurance Plans	104,000	108,000
	d) Employee Benefits	77,000	72,000
	Subtotal Personal Services	1,872,000	1,868,000
2	Additional Help	2,000	2,000
3	Communications	25,000	25,000
4	Computer Services	56,000	56,000
5	Equipment	29,000	29,000
6	Fishery Monitoring	43,000	44,000
7	Hospitality Allowance	3,000	3,000
8	Internship	11,000	11,000
9	Materials and Supplies	32,000	33,000
10	NAFO Meetings		
	a) Sessional	179,000	179,000
	b) Inter-sessional Scientific	30,000	30,000
	c) Inter-sessional Other	37,000	37,000
	Subtotal NAFO Meetings	246,000	246,000
11	Other Meetings and Travel	39,000	39,000
12	Professional Services	45,000	46,000
13	Publications	14,000	14,000
		$2,417,000	$2,416,000

Annex 5. Preliminary Calculation of Billing for Contracting Parties for 2020

Preliminary calculation of billing
for the 2020 financial year
(Canadian Dollars)

Budget Estimate		$2,369,000
Deduct:	Amount Allocated from Accumulated Surplus	$299,000
Funds required to meet 2020 Administrative Budget		$2,070,000

Part A

Contracting Parties	Catches 2017	Catch %	NAFO Convention Article IX.2.a,b,c 10%	30%	60%	Subtotal
Canada	159,970	36.16%	$86,217	$51,750	$449,107	**$587,075**
Cuba	-	-	-	$51,750	-	**$51,750**
Denmark (in respect of Faroe Islands and Greenland) (Note 2)	162,823	36.82%	$87,755	$51,750	$457,304	**$596,809**
European Union	43,280	9.79%	-	$51,750	$121,592	**$173,342**
France (in respect of St. Pierre et Miquelon)	1,283	0.29%	$691	$51,750	$3,602	**$56,043**
Iceland	-	-	-	$51,750	-	**$51,750**
Japan	2,589	0.59%	-	$51,750	$7,328	**$59,078**
Norway	2,762	0.62%	-	$51,750	$7,700	**$59,450**
Republic of Korea	-	-	-	$51,750	-	**$51,750**
Russian Federation	9,536	2.16%	-	$51,750	$26,827	**$78,577**
Ukraine	-	-	-	$51,750	-	**$51,750**
United States of America	59,997	13.57%	$32,336	$51,750	$168,539	**$252,625**
Total	**442,240**	**100.00%**	**$207,000**	**$621,000**	**$1,242,000**	**$2,070,000**

Part B

Contracting Parties	Subtotal from Part A	NAFO Convention Article IX.2.d (Note 1) % Contribution	Catch % minus DFG	10%	30%	60%	Subtotal	Total contribution
Canada	**$587,075**	28.37%	57.25%	$25,191	$9,502	$119,679	**$154,372**	**$741,447**
Cuba	**$51,750**	2.50%	-	-	$9,502	-	**$9,502**	**$61,252**
Denmark (in respect of Faroe Islands and Greenland) (Note 2)	**$596,809**	28.83%	-	-$34,841	-$104,522	-$209,046	**-$348,409**	**$248,400**
European Union	**$173,342**	8.37%	15.49%	-	$9,502	$32,381	**$41,883**	**$215,225**
France (in respect of St. Pierre et Miquelon)	**$56,043**	2.71%	0.46%	$202	$9,502	$962	**$10,666**	**$66,709**
Iceland	**$51,750**	2.50%	-	-	$9,502	-	**$9,502**	**$61,252**
Japan	**$59,078**	2.85%	0.93%	-	$9,502	$1,944	**$11,446**	**$70,524**
Norway	**$59,450**	2.87%	0.99%	-	$9,502	$2,070	**$11,572**	**$71,022**
Republic of Korea	**$51,750**	2.50%	-	-	$9,502	-	**$9,502**	**$61,252**
Russian Federation	**$78,577**	3.80%	3.41%	-	$9,502	$7,128	**$16,630**	**$95,207**
Ukraine	**$51,750**	2.50%	-	-	$9,502	-	**$9,502**	**$61,252**
United States of America	**$252,625**	12.20%	21.47%	$9,448	$9,502	$44,882	**$63,832**	**$316,457**
Total	**$2,070,000**	**100.00%**	**100.00%**	**$0**	**$0**	**$0**	**$0**	**$2,070,000**

Note 1 The annual contribution of any Contracting Party which has a population of less than 300,000 inhabitants shall be limited to a maximum of 12% of the total budget. When this contribution is so limited, the remaining part of the budget shall be divided among the other Contracting Parties in accordance with Article IX.2.a,b and c of the NAFO Convention.

Note 2

Faroe Islands	3,346 metric tons
Greenland	159,477 metric tons