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Northwest Atlantic Fisheries Organization



Report of the Drafting Group to Overhaul the
NAFO Conservation and Enforcement Measures

July 9-11, 2002
Ottawa, Canada

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Dartmouth, N.S., Canada
2002

Members of the Fisheries Commission:

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**Report of the Drafting Group to
Overhaul the NAFO Conservation and Enforcement Measures**

**9-11 July 2002
Ottawa, Canada**

1. The Drafting Group met in Ottawa from 9-11 July 2002.
2. Participants are listed in **Annex 1** (page 2).
3. The Drafting Group adhered to its mandate to identify and remove redundancies and inconsistencies in the NAFO Conservation and Enforcement Measures. The Drafting Group made considerable progress in its mandate, helped by the provision of a base text by the European Commission.
4. A draft revision of the Conservation and Enforcement Measures, which reflects a high degree of consensus, is attached as **Annex 2** (page 4). It should be noted that this revision is a work in progress and further consideration of a variety of issues is still needed by the Drafting Group and guidance is required from STACTIC on a number of substantive changes. Due to a lack of time, there were a number of items, including the Annexes of the Conservation and Enforcement Measures, which the Drafting Group was not able to focus on. These are listed in **Annex 3** (page 67). Issues which the Drafting Group identified as possible substantive changes are listed in **Annex 4** (page 68).
5. The Drafting Group agreed that its report should be submitted to STACTIC at its 2002 meeting and circulated by email by the Executive Secretary to all Contracting Parties as far in advance as possible of that meeting.
6. The Drafting Group noted that any new measures that may be adopted by the Fisheries Commission will need to be incorporated into the revision. To prevent continuous revision, the Drafting Group was hopeful that a finalized text could be submitted for adoption by the Fisheries Commission at the 2003 annual meeting.

Annex 1. List of Participants

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Annex 2. Draft Revision of the Conservation and Enforcement Measures

(Note: Points in the text where graphics and tables would be inserted is marked. However, the graphics and tables themselves do not appear.)

**Northwest Atlantic Fisheries Organization
Conservation and Enforcement Measures**

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Article 1

Scope

1. These Measures shall, unless otherwise provided, apply to all fishing vessels used or intended for use for the purposes of commercial fishing activities conducted on fisheries resources in the Regulatory Area as defined in Article I of the NAFO Convention.
2. Unless otherwise provided, research vessels shall not be restricted by conservation and management measures pertaining to the taking of fish, in particular, concerning mesh size, size limits, closed areas and seasons.

Article 2

Definitions

1. “fishing vessel” means any vessel which is or has been engaged in commercial fishing operations, including fish processing vessels and vessels engaged in transshipment or any other activity in preparation for or related to fishing, including experimental or exploratory fishing;

2. "research vessel" means any permanent research vessel or vessel normally engaged in commercial fishing or fisheries support activity employed or chartered for fishery research, which has been duly notified to the Executive Secretary;

Chapter I CONSERVATION AND MANAGEMENT MEASURES

Article 3 Quotas

1. Each Contracting Party shall limit its catches of the stocks listed in Annex 1 so that neither the quota allocated to a Contracting Party nor the quota allocated to "Others" is exceeded.
2. Each Contracting Party to which a quota has been allocated shall close its fishery in the Regulatory Area for the stocks listed in Annex 1 on the date on which the accumulated reported catch, the estimated unreported catch, the estimated quantity to be taken before the closure of the fishery and the likely by-catches during the period to which the quota applies, equal 100 percent of the quota allocated to that Contracting Party. Such Contracting Party shall promptly notify the Executive Secretary of the date on which that Party will close its fishery for the stocks concerned. The Executive Secretary shall promptly inform all other Contracting Parties of such notification.
3. Each Contracting Party which has not been allocated a quota of a particular stock listed in Annex 1 shall be allowed to fish on the quota allocated to "Others". Those Contracting Parties shall notify the Executive Secretary, at least 48 hours in advance, of their vessels intended to fish on such a quota. This notification shall, if possible, be accompanied with an estimate of the projected catch. Those Contracting Parties shall report to the Executive Secretary, at 48-hour intervals, the catches taken by their vessels on such quotas.
4. The Executive Secretary shall notify, by the most rapid electronic means available, all Contracting Parties of the date on which the accumulated reported catch, the estimated unreported catch, the estimated quantity to be taken before the closure of the fishery and the likely by-catches during the period to which the quota applies, equal 100 percent of the quota allocated to "Others" in Annex 1 for a particular stock.
5. Each Contracting Party which has not been allocated a quota for a particular stock shall, within 7 days of the date of issue of such electronic notification by the Executive Secretary, close its fishery in the Regulatory Area for that stock, except for by-catches in directed fisheries for other stocks.

Article 4 Cod in Divisions 2J3KL

1. The Fisheries Commission shall obtain annually the decision of Canada on the limit it has established for catches by Canadian fishers. This decision shall take into account the assessment of this stock by the Scientific Council. This limit shall be 95% of the TAC for this stock.
2. The Fisheries Commission shall establish a catch limit in the Regulatory Area that shall apply to the other Contracting Parties. This limit shall be 5% of the TAC for this stock.

3. The total of the catch limits set in accordance with paragraphs 1 and 2 shall constitute the TAC for 2J3KL cod.
4. The distribution key that shall apply for the 5% figure when the fishery in the Regulatory Area is resumed shall be 65.4% for the EU and 34.6% for the other Contracting Parties.
5. The measures in this article shall apply when a decision is taken to allow the resumption of fishing for cod in the Regulatory Area and is valid until 31 December 2005. The measures in this article shall not serve as a precedent in future years for the fixation of catch limits or the criteria for quota distribution of stocks of other species.

Article 5 Shrimp in Division 3M

1. Each Contracting Party shall limit the number of its vessels fishing for shrimp in Division 3M to the number which participated in this fishery in the period from 1 January 1993 to 31 August 1995. With regard to shrimp, Division 3M shall be understood to mean Division 3M as well as that portion of Division 3L defined in figure 1.
2. Each Contracting Party shall in 2002 limit the number of shrimp fishing days in Division 3M by its vessels to 90% of the maximum number of fishing days observed for its vessels in one of the years 1993, 1994 or 1995 (until 31 August 1995).
3. Each Contracting Party with a track record in the period from 1 January 1993 to 31 August 1995 is permitted a minimum level of 400 fishing days per year. Each Contracting Party with no track record in this fishery in this period may fish for shrimp with one vessel for 100 fishing days per year.
4. Each Contracting Party shall closely monitor its vessels fishing shrimp in Division 3M and shall close its fishery when the number of fishing days available to that Party is exhausted. The number of fishing days shall be counted from vessel monitoring system (hereinafter "VMS") reports and shall include the days of entry into and exit from Division 3M. If a vessel is fishing for shrimp and other species on the same trip, the change of fishery shall be signaled and the number of fishing days counted accordingly.
5. Fishing days referred to in this Article are not transferable between Contracting Parties. Fishing days of one Contracting Party may only be utilized by a vessel flying the flag of another Contracting Party under the conditions laid down in Article 14.
(insert figure one)

Article 6 Shrimp in Division 3L

1. With regard to shrimp, Division 3L shall be understood to mean Division 3L except that portion of 3L adjacent to Division 3M defined by figure one in Article 5.
2. Contracting Parties shall not conduct exploratory or research fisheries which take catch beyond the quota allocated to the Contracting Party.

3. The portion of the TAC allocated to Canada shall be fished within the Canadian zone. The portion of the TAC allocated to other Contracting Parties shall be divided equally among them.

Article 7 Closed Fisheries

Directed fisheries are not allowed in the following fisheries in 2002:

- a) shrimp in Divisions 3NO;
- b) witch in Division 3L of the Regulatory Area; and
- c) cod in the Division 3L of the Regulatory Area.

Article 8 Quota Adjustments

1. When information satisfactory to the Executive Secretary indicates that there are reasonable grounds for believing that a quota of a Contracting Party has been taken, he shall immediately inform that Contracting Party. Should that Contracting Party fail within 15 days either to cease fishing or to demonstrate that the quota has not been taken, the Executive Secretary shall so report without delay to the Fisheries Commission.
2. When the Fisheries Commission finds that vessels of a Contracting Party have taken more than the quota allocated to that Contracting Party, the Commission may adjust the corresponding quota for that Contracting Party in a succeeding quota period.
3. When the Fisheries Commission finds that a Contracting Party, contrary to the provisions of Article 3, has fished on a quota allocated to "Others" without reporting its intention to fish on that quota, failed to report its catches taken under such a quota, or continued a directed fishery under such quota after this fishery had been closed, the Commission may propose measures to compensate for damage caused to the stock. Such measures may include adjustments to quotas or the establishment of new quotas for that Contracting Party as appropriate.
4. Quota adjustments shall be made during the determination by the Fisheries Commission of relevant quotas for the following quota period, and shall not result in an increase in any other quota for the Contracting Party to which the quota adjustment applies. All quota adjustments shall not result in any increase in the relevant quota for any other Contracting Party, unless the Commission determines that the increase will not cause further harm to the stock.

Article 9 By-catch Requirements

1. Masters shall not conduct directed fisheries for species for which by-catch limits apply.
2. Vessels of a Contracting Party shall limit their by-catch to a maximum of 2500kg or 10%, whichever is the greater, for each species listed in Annex 1 for which no quota has been allocated in that division to that Contracting Party.
3. In cases where a ban on fishing is in force or an "Others" quota has been fully utilized, by-catches of the species concerned may not exceed 1250 kg or 5%, whichever is the greater.

4. If the percentages of by-catches foreseen in paragraphs 2 and 3 are exceeded in any one haul, the vessel must immediately move a minimum of 5 nautical miles from any position of the previous haul. If any future haul exceeds these by-catch limits, the vessel shall again immediately move a minimum 5 nautical miles from any position of the previous hauls and shall not return to the area for at least 48 hours.

5. In the event that total by-catches of all groundfish species subject to quota in any haul in the shrimp fishery exceed 5% by weight in Division 3M or 2.5% by weight in Division 3L, the vessel must move a minimum of 5 nautical miles from the position of the previous haul

6. The percentages in the first sentence of paragraphs 2 and 3 are calculated as the percentage, by weight, for each species, of the total catch excluding the catch of species subject to by-catch limits and are based on the catch taken by stock area. Catches of shrimp shall not be included in the calculation of by-catch levels of groundfish species.

Article 10 Gear Requirements

1. Minimum authorized mesh sizes shall be as follows:
 - a) 40 mm for shrimps and prawns;
 - b) 60 mm for short finned squid (*Illex*);
 - c) 280 mm in the codend and 220 mm in all other parts of the trawl for skate; and
 - d) 130 mm for principal groundfish, flatfishes, other groundfish and other fish (with the exception of capelin) as listed in Annex 2.
2. Only meshes which have 4 sides, equally long, of the same material, and 4 knots are permitted.
3. Mesh size shall be calculated by averaging:
 - a) in respect of the codend of a net, including any lengthener(s), the measurements, in millimeters, of any 20 consecutive meshes running parallel to the long axis of the codend, beginning at the after end of the codend, and at least 10 meshes from the lacings; and
 - b) in respect of any part of a net, the measurements, in millimeters, of any 20 consecutive meshes that are at least 10 meshes from the lacings.
4. Mesh shall be measured wet after use by inserting into the meshes the appropriate gauge as described in Annex 3.
5. Vessels fishing primarily for other species are however permitted to take regulated species with nets having a mesh size less than specified in paragraph 1, provided that the by-catch requirements in Article 9, paragraph 2 are complied with.
6. Vessels fishing for a species listed in Annex 2 are not allowed to retain onboard during any trip any net with a mesh size smaller than that authorized for that species. Vessels which fish in areas outside the Regulatory Area may however retain on board nets with a mesh size smaller than that prescribed in Annex 2, provided that these nets are securely lashed and stowed and are not available for immediate use.
7. Strengthening ropes, splitting straps and codend floats may be used on trawls, as long as these attachments do not in any way restrict the authorized mesh or obstruct the mesh opening.

8. Vessels shall not use any means or device which would obstruct the meshes or diminish the size of the meshes. However, vessels may attach devices described in Annex 4 to the upperside of the codend in such a manner that they will not obstruct the meshes of the codend inclusive of any lengthener(s). In addition, canvas, netting or other material may be attached to the underside of the codend of a net to reduce and prevent damage.

9. Vessels fishing for shrimp in Divisions 3L or 3M shall use sorting grids or grates with a maximum bar spacing of 22 mm. Vessels fishing for shrimp in Division 3L shall also be equipped with toggle chains of a minimum 72 cm in length.

Article 11 Minimum Fish Size Requirements

1. Vessels shall not retain on board any fish of a species for which minimum fish size requirements apply in accordance with Annex 5. If the amount of undersized fish in any one haul exceeds 10% by number, the vessel shall immediately move a minimum 5 nautical miles from any position of the previous haul.

2. Undersized fish shall not be processed, transhipped, landed, transported, stored, displayed or offered for sale, but shall be returned immediately to the sea. Any processed fish for which minimum fish size requirements apply which is below a length equivalent in Annex 5 shall be deemed to originate from fish that is below the minimum fish size.

3. Notwithstanding paragraphs 1 and 2, Canadian vessels shall abide by their equivalent national regulations which require landing of all catches.

Article 12 Area and Time Restrictions

1. Fishing for shrimp in the period from 1 June (00.01GMT) to 31 December (24.00 GMT), is prohibited in the area defined by figure 2:

(insert figure 2)

2. All fishing for shrimp in Division 3L shall take place in depths greater than 200 meters and shall be limited to one vessel per Contracting Party at any one time. Fishing shall only occur during the following periods: 1 January – 31 March, 1 July – 14 September, 1 December – 31 December. The fishery in the Regulatory Area shall be restricted to an area east of a line bound by the following co-ordinates:

46°00'N/47°53'W, 46°40'N/47°20'W, 47°19'N/47°43'W.

Chapter II CONTROL MEASURES

Article 13 Chartering Arrangements

1. A Contracting Party may utilize partly or wholly quota and shrimp fishing days allocated to that Party under Articles 3 and 5 by way of charter arrangement with a fishing vessel flying the flag of another Contracting Party notified in accordance with Article 15. Any such arrangement must be subject to the consent of the flag Contracting Party and a favourable proposal adopted through a mail vote in accordance with Article XI.2 of the Convention. Contracting Parties shall limit such charter arrangements to one fishing vessel per year and for a limited duration not exceeding 6 months.
2. Contracting Parties intending to have recourse to such charter arrangements shall together with a request for a mail vote notify the following information to the Executive Secretary:
 - a) the name and registration of the chartered vessel and the relevant flag Contracting Party;
 - b) a copy of the charter;
 - c) the fishing possibilities concerned;
 - d) the date as from which the vessel is authorized to commence fishing on these fishing possibilities; and
 - e) the duration of the charter.
3. The relevant flag Contracting Party shall notify in writing its consent to the Executive Secretary.
4. The Executive Secretary shall circulate the above information and the consent of the flag Contracting Party without delay to Contracting Parties.
5. The relevant flag Contracting Party is responsible for ensuring that the vessel complies with the requirements of these Conservation and Enforcement Measures. This does not nullify the obligations of the Contracting Party under Chapter I to which the quota and shrimp fishing days have been allocated.
6. All catches and by-catches from such chartering arrangements shall be recorded by the relevant flag Contracting Party separate from other national catch data recorded according to Article 20. They shall be reported to the Contracting Party to which the fishing possibilities have been allocated and to the Executive Secretary separate from other national catch data according to Article 20. The Executive Secretary shall add these catches to the catch statistics of the Contracting Party to which the fishing possibilities have originally been allocated.
7. As a pilot project, these measures shall apply until 2002.

Article 14 Notification Requirements

1. Contracting Parties shall notify the Executive Secretary, in electronic form, of all fishing vessels of more than 50 gross tons authorised to fish in the Regulatory Area. This notification shall be made prior to 1 January of each year if possible, or in a timely manner following

departure of the vessel from its home port. Vessels subject to bare boat chartering shall be notified to the Executive Secretary by the flag Contracting Party at the latest one month prior to the departure of the vessel from its home port. The notification shall be in accordance with Annex 6. Each Contracting Party shall notify the Executive Secretary of any modification to this information within 30 days of the modification.

2. Contracting Parties shall notify the Executive Secretary, in electronic form, prior to the commencement of a fishery research period of all research vessels authorized to conduct research activities in the Regulatory Area. The notification shall be in accordance with Annex 6.

3. By 1 November each year, each Contracting Party shall communicate to the Executive Secretary the number of fishing days available to it for fishing shrimp in Division 3M in the following year.

4. The Executive Secretary shall make available to all Contracting Parties the information notified under this Article.

Article 15 Vessel Requirements

1. Each Contracting Party shall ensure that its fishing vessels are marked with the port of registration and/or the registration number(s). These markings shall be displayed on both sides of the vessel in a colour contrasting with the background. The markings shall be displayed high above the water line so that they are clearly visible from the sea and air.

2. Small boats carried on board fishing vessels shall be marked with the letter(s) and/or number(s) of the vessel to which they belong.

3. Each Contracting Party shall ensure that its fishing vessels over 10 metres in length carry on board documents issued by the competent authority of the State in which it is registered showing at least the elements referred to in Annex 7.

4. Each Contracting Party shall ensure that its fishing vessels over 17 metres in length which freeze or salt fish keep on board up-to-date drawings or descriptions of their fish rooms, including an indication of their storage capacity in cubic metres.

5. Any modification to the documents referred to in paragraphs 3 and 4 shall be certified by the competent authority of the State in which the vessel is registered and the method by which any modification of engine power has been carried out and clearly explained.

Article 16 Marking of Gear

Marker buoys and similar objects floating on the surface and intended to indicate the location of fixed fishing gear shall display the registration number of the fishing vessels to which they belong.

Article 17
Transshipment Restriction

Contracting Parties shall ensure that their fishing vessels do not receive transshipments of fish from a Non-Contracting Party vessel which has been sighted and reported as having engaged in fishing activities in the Regulatory Area.

Article 18
Product Labelling Requirements

All shrimp harvested in Division 3L shall be packaged and labelled as harvested in this Division.

CHAPTER III
MONITORING OF FISHERIES

Article 19
Recording of Catch

1. Each Contracting Party shall ensure that its vessels shall, on entering the Regulatory Area, have a record in its fishing logbook of the amount of each species of fish retained on board.
2. Each Contracting Party shall ensure that its vessels record their catches on a daily basis. All logbook entries listed in Annex 9 shall be completed in accordance with its instructions using the codes specified therein. Each Contracting Party shall also ensure that its vessels record their estimated cumulative catch of all species on a daily basis in the form prescribed in Annex 10.
3. The records referred to in paragraphs 1 and 2 shall correspond to the smallest geographical area for which a quota has been allocated, show the disposition of the catch and include any fish off-loaded while the vessel is operating in the Regulatory Area. The records shall be retained aboard the vessel for the duration of the quota period.
4. Each Contracting Party shall ensure that its fishing vessels shall either record their cumulative production by species and product form in a production logbook or stow in the hold all processed catch in such a way that each species is stowed separately. A stowage plan shall be maintained showing the location of the products in the hold.

Article 20
Reporting of Catch and Fishing Effort

1. Each Contracting Party shall report its provisional monthly catches by species and stock area, as well as provisional monthly fishing days in the shrimp fishery, whether or not that Party has quota allocations for the stocks from which catches were obtained. These reports shall be sent to the Executive Secretary within 30 days of the end of the calendar month in which the catches were made.
2. The Executive Secretary shall, within 10 days following the monthly deadlines for receipt of the provisional catch statistics, collate the information received and circulate it to Contracting Parties. The Executive Secretary shall also collate the logbook catch summaries from inspection forms and, on a monthly basis, circulate the cumulative year-to-date information to Contracting Parties.

3. Contracting Parties shall daily notify the Executive Secretary of shrimp catches taken by its vessels in Division 3L. The Executive Secretary shall forward this information to Contracting Parties with an inspection presence.

4. Contracting Parties shall also report statistics on discards of cod taken in the redfish and flatfish fisheries on the Flemish Cap. This information shall include length samplings, with depth information accompanying each sample. These length samplings shall be collected separately for the two components.

5. Contracting Parties shall also provide nominal catch and discard statistics on American plaice and Yellowtail flounder in Division 3LNO. This information shall also include separate length samplings for nominal catches and discards. The statistics shall be broken down on as fine a scale as possible, preferably by unit areas no larger than 1° latitude and 1° longitude and shall be summarized on a monthly basis.

Article 21

Hail System

1. Each Contracting Party shall ensure that its vessels shall report to their competent authorities or to the Executive Secretary:

- a) the catch on board on entering the Regulatory Area. This report shall be made at least 6 hours in advance of the vessel's entry to the Regulatory Area and shall include the total live weight of catch on board by species (3 alpha codes) in kilograms (rounded to the nearest 100 kilograms);
- b) the catch on board on exiting the Regulatory Area. This report shall be made 6 hours in advance of the vessel's exit from the Regulatory Area and shall include the catch taken and retained in the Regulatory Area by species (3 alpha codes) in live weight in kilograms (rounded to the nearest 100 kilograms); and
- c) each transshipment of fish while the vessel is operating in the Regulatory Area. This report shall be made at least 24 hours in advance of transshipment and shall include the date, the time, the geographical position of the vessel and total live weight by species (3 alpha codes) in kilograms (rounded to the nearest 100 kilograms) to be transhipped.

2. Within 24 hours of receipt of these reports, whenever possible, competent authorities of each Contracting Party shall transmit the information contained therein to the Executive Secretary. The Executive Secretary shall transmit the information to other Contracting Parties with an inspection presence in the Regulatory Area as soon as possible and shall ensure that all such transmissions are numbered sequentially for each Contracting Party. These reports are to be treated in a confidential manner.

3. For vessels that fish shrimp in Division 3L, each entry and exit from Division 3L shall require 24-hour prior notification to the Executive Secretary. All shrimp on board shall be reported to the Executive Secretary on entry and exit.

Article 22 Observer Program

1. Each Contracting Party shall require all its vessels to carry at least one observer at all times while fishing in the Regulatory Area. Contracting Parties shall have the primary responsibility to obtain independent and impartial observers and shall take all necessary measures to ensure that observers are able to carry out their duties. Observers are not to perform duties, other than those described in paragraphs 4, 5 and 6 below. Subject to any other arrangements between the relevant Contracting Parties, the salary of an observer shall be covered by the sending Contracting Party.
2. In cases where a Contracting Party has not placed an observer on a vessel, any other Contracting Party may, subject to the consent of the Contracting Party of the vessel, place an observer on board until that Contracting Party provides a replacement in accordance with paragraph 1.
3. Contracting Parties shall provide to the Executive Secretary a list of the observers they will be placing on their vessels.
4. Observers shall:
 - a) monitor a vessel's compliance with the relevant Conservation and Enforcement Measures. In particular they shall:
 - (i) record and report upon the fishing activities of the vessel and verify the position of the vessel when engaged in fishing;
 - (ii) observe and estimate catches with a view to identifying catch composition and monitoring discards, by-catches and the taking of undersized fish;
 - (iii) record the gear type, mesh size and attachments employed by the master; and
 - (iv) verify entries made to the logbooks (species composition and quantities, live and processed weight, haul and VMS reports).
 - b) collect catch and effort data for each haul. This data shall include location (latitude/longitude), depth, time of net on the bottom, catch composition and discards; in particular the observer shall collect the data on discards and retained undersized fish as outlined in the protocol developed by the Scientific Council;
 - c) carry out such scientific work (for example, collecting samples) as requested by the Fisheries Commission based on the advice of the Scientific Council; and
 - d) monitor the functioning of and report upon any interference with the satellite tracking system. In order to better distinguish fishing operations from steaming and to contribute to an *a posteriori* calibration of the signals registered by the receiving station, the observer shall maintain detailed reports on the daily activity of the vessel.
5. When an infringement of the Conservation and Enforcement Measures is identified by an observer, the observer shall, within 24 hours, report it to an inspection vessel using an established code, which shall report it to the Executive Secretary.

6. The observer shall within 30 days following completion of an assignment provide a report to the Contracting Party of the vessel and to the Executive Secretary, who shall make the report available to any Contracting Party that so requests. Copies of reports made available to other Contracting Parties shall not include location of catch in latitude and longitude as required under paragraph 4 b), but shall include daily totals of catch by species and division.
7. The vessel on which an observer is placed shall provide suitable food and lodging during the observer's deployment. Vessel masters shall ensure that all necessary co-operation is extended to observers in order for them to carry out their duties including providing access, as required, to the retained catch, and catch which is intended to be discarded.
8. The elements of the observer program are subject to review and revision, as appropriate, for application in 2003 and subsequent years.

Article 23 **Vessel Monitoring System (VMS)**

1. Each Contracting Party shall ensure that its fishing vessels operating in the Regulatory Area are equipped with a satellite monitoring device allowing the continuous reporting of their position by the Contracting Party. The satellite monitoring device shall ensure the automatic communication at least once every six hours to a land-based fisheries monitoring centre (hereafter referred to as FMC) of data relating to:
 - a) the vessel identification;
 - b) the most recent geographical position of the vessel (longitude, latitude) with a position error which shall be less than 500 metres, with a confidence interval of 99%; and
 - c) the date and time of the fixing of the said position of the vessel.
2. Each Contracting Party shall take the necessary measures to ensure that its FMC receives these data. The FMC of each Contracting Party shall be equipped with computer hardware and software enabling automatic data processing and electronic data transmission. Each Contracting Party shall provide for back-up and recovery procedures in case of system failures and shall take the necessary measures to ensure that the data received from its fishing vessels are recorded in computer readable form for a period of three years.
3. The masters of fishing vessels shall ensure that the satellite monitoring devices are at all times fully operational and that the information in paragraph 1 is transmitted to the FMC. In the event of a technical failure or non-operation of the satellite monitoring device fitted on board a fishing vessel, the device shall be repaired or replaced within one month. After this period, the master of a fishing vessel shall not be authorized to commence a fishing trip with a defective satellite monitoring device. Where a device stops functioning and a fishing trip lasts more than one month, the repair or the replacement has to take place as soon as the vessel enters a port and the fishing vessel shall not be authorized to continue or commence a fishing trip without the satellite monitoring device having been repaired or replaced.
4. Contracting Parties shall ensure that a fishing vessel with a defective satellite monitoring device shall communicate, at least daily, reports containing the information in paragraph 1 to the FMC, by other means of communication (email, radio, facsimile or telex).

5. Contracting Parties shall communicate reports and messages pursuant to paragraphs 1 and 4 to the Executive Secretary as soon as possible, but not later than 24 hours after receipt of those reports and messages. If the Contracting Party so desires, it shall ensure that each of its fishing vessels shall communicate reports (by satellite, email, radio, facsimile or telex) to the Executive Secretary.
6. Contracting Parties shall ensure that the reports and messages transmitted between the Contracting Party and the Executive Secretary or between its fishing vessels and the Executive Secretary, shall be in accordance with the data exchange format set out in Annex 12.
7. The Executive Secretary shall make available as soon as possible the information received under paragraph 6 to other Contracting Parties with an inspection presence in the Regulatory Area. All reports and messages shall be treated in a confidential manner.
8. Contracting Parties shall notify any changes of the name, address, telephone, telex, email and facsimile numbers of their competent authorities to the Executive Secretary without delay.
9. Subject to any other arrangements between Contracting Parties, each Contracting Party shall pay all costs associated with this system.
10. The elements of the vessel monitoring system are subject to review and revision, as appropriate, for application in 2003 and subsequent years

CHAPTER IV JOINT INSPECTION AND SURVEILLANCE SCHEME

Article 24 General Provisions

1. Inspection and surveillance shall be carried out by inspectors of the fishery control services of Contracting Parties following their assignment to the Joint Inspection and Surveillance Scheme (hereinafter "Scheme") and in accordance with the guidelines laid down in Annex 13. An inspector visiting a vessel engaged in research shall note the status of the vessel, and shall limit any inspection procedures to those procedures necessary to ascertain that the vessel is not conducting a commercial fishing operation.
2. Following notification to the Executive Secretary, and in the case of mutual agreement between the respective Contracting Parties, inspectors assigned by one Party may be placed on board inspection vessels or aircraft of another Party assigned to the scheme.
3. Contracting Parties shall aim at ensuring equal treatment between all Contracting Parties with vessels operating in the Regulatory Area through an equitable distribution of inspections. The number of inspections carried out by a Contracting Party on vessels of any other Contracting Party shall, as far as possible, reflect the ratio of the inspected Party's fishing activity to the total fishing activity in the Regulatory Area per quarter. This ratio shall be measured on the basis of, inter alia, the level of catches and vessel days on ground and shall also take into account compliance records. The Executive Secretary shall draw up an annual report on the objectivity in the realization and distribution of inspections between the Contracting Parties.

4. For the purposes of receiving and responding to, without delay, notice of infringements, a Contracting Party with more than 15 fishing vessels operating at any one time in the Regulatory Area shall, during that time:

- a) have an inspector or other competent authority present in the Regulatory Area; or
- b) have a competent authority present in a country of a Contracting Party adjacent to the Convention Area.

5. The use of arms in relation to the inspection is prohibited and, in particular, the inspectors shall not carry arms. However, the prohibition on carrying or using arms shall not apply to inspections by a Contracting Party of vessels flying its own flag.

6. Without compromising their ability to conduct inspections, inspectors shall minimize the interference and inconvenience to the vessel, its activities and catch. Inspectors shall take all appropriate precautions to avoid causing damage to packaging, wrapping, cartons or other containers and to the contents of same in order to ensure, to the extent practicable, that the quality of the catch on board is maintained. Cartons and other containers shall be opened in such a way that will facilitate their prompt resealing, repacking and eventual restorage.

Article 25

Notification Requirements

1. Contracting Parties shall notify the Executive Secretary by 1 November each year of the names of the inspectors, inspector trainees and inspection vessels, and the type and call sign of the helicopters or other aircraft which they are assigning to this Scheme in accordance with this Article. Modifications to such notifications shall be communicated to the Executive Secretary with two months notice whenever possible.

2. Inspection vessels and aircraft shall immediately notify the Executive Secretary, by the most rapid electronic means available, of the date and time of commencing and terminating their duties under the scheme. In each case, these times shall be entered in the aircraft's or ship's log or its equivalent. In cases where notification is not possible or practicable, these entries shall constitute fulfillment this requirement.

3. Contracting Parties shall inform the Executive Secretary by 1 November each year of the provisional plans for participation by its inspectors, vessels, helicopters and other aircraft in inspection and surveillance activities for the following calendar year. The Executive Secretary may make suggestions to Contracting Parties for the co-ordination of their operations, including the number of inspectors and the number of vessels, helicopters and other aircraft carrying inspectors.

4. The Executive Secretary shall circulate the substance of the notifications received from any Contracting Party to all Contracting Parties within 15 days of receipt.

5. Contracting Parties shall notify the Executive Secretary of the names of the authorities competent to receive immediate notice of infringements and the means by which they may receive and respond to communications.

Article 26 Inspectors

1. Each inspector or inspector trainee shall carry a document of identity issued by the Executive Secretary in accordance with Annex 14 and produce this document upon boarding a vessel.
2. When carrying out their duties under this Scheme, inspectors may not, with respect to vessels under the jurisdiction of other Contracting Parties, enforce laws and regulations related to the zone of the Contracting Party which has assigned them. Inspectors shall carry out their duties in accordance with the rules set out in this Scheme, but they shall remain under the operational control of the authorities of their Contracting Parties and shall be responsible to them.

Article 27 Surveillance Procedure

1. Surveillance reports shall be based on sightings made by an inspector from an inspection vessel or aircraft assigned to this Scheme.
2. Aircraft assigned to this Scheme shall have their international radio call sign clearly displayed.
3. When an inspector observes a vessel of a Contracting Party, and where such observation does not correspond with the latest information available to the inspector in accordance with Articles 21 and 23, the inspector shall complete the Surveillance Report Form in Annex 15. The inspector shall take photographs of the vessel which should record the position, date and time the photograph was taken.
4. The original of each Surveillance Report and any photographs shall without delay be forwarded by electronic transmission to the Contracting Party of the vessel concerned. A copy of every Surveillance Report and photographs shall also be forwarded to the Executive Secretary.
5. Contracting Parties shall, on receipt of a Surveillance Report concerning its vessels, take prompt action to consider the Report and shall, whenever possible, board the vessel concerned and conduct any further investigation necessary to allow it to determine appropriate follow-up action.
6. Each Contracting Party shall report the action taken with regard to Surveillance Reports involving its vessels to the Executive Secretary by 1 March each year for the previous calendar year. The Surveillance Reports shall be listed annually until follow-up action is concluded by the Flag State of the vessel concerned. In cases where the follow-up action results in penal action, any penalties imposed shall be described in specific terms.
7. Contracting Parties shall report to the Executive Secretary all sightings of Non-Contracting Party fishing vessels sighted engaged in fishing activities in the Regulatory Area. Such reports shall include all information resulting from these observations and be made using the Surveillance Report provided in Annex 15.
8. An attempt shall be made to inform the Non-Contracting Party fishing vessel that it has been sighted engaged in fishing activities in the Regulatory Area, that a surveillance report has

been completed, that there may be consequences for the vessel, and that this information will be distributed to all Contracting Parties and the Flag State of the vessel.

Article 28 Inspection Procedure

1. No boarding shall be conducted without prior notice being sent to the vessel, including the identity of the inspection platform, whether or not such notice is acknowledged as received. The inspection shall be carried out using the inspection report prescribed in Annex 16.
2. When conducting an inspection during daylight hours in conditions of normal visibility, an inspection vessel shall display the pennants depicted in Annex 18. Boarding vessels shall display one pennant, which may be half-scale.
3. The fishing vessel to be boarded shall not be required to stop or manoeuvre when fishing, shooting or hauling. Where an inspection vessel has signalled that an inspection party is about to commence boarding a fishing vessel which has begun or is about to begin hauling its nets, the master of that fishing vessel shall ensure that the net is not retrieved for a period of 30 minutes after receiving the signal from the inspection vessel.
4. An inspection party shall consist of at maximum two inspectors. Vessel conditions permitting, an inspection trainee may accompany the inspection party for training purposes only. In such circumstances, the inspection party shall, upon arrival on board, identify the trainee to the master of the fishing vessel. This trainee shall simply observe the inspection operation conducted by the authorized inspectors and shall in no way interfere with the activities of the fishing vessel.
5. Inspectors have the authority to examine all relevant areas, decks and rooms of the fishing vessels, processed and unprocessed catches, nets or other gear, equipment, and any relevant documents which inspectors deem necessary to verify compliance with the Conservation and Enforcement Measures.
6. Inspectors shall limit their inquiries to the verification of the facts in relation to measures to which the Contracting Party of the inspected vessel has not objected in accordance with Article XII of the Convention.
7. Inspectors shall summarize from logbook records, for the current voyage, the vessel's catch in the Regulatory Area by species and by division and shall record this summary in section 15 of the inspection form. The current voyage shall be defined for this purpose as beginning when the vessel enters the Regulatory Area and ending when the vessel leaves the Convention Area, including the ports bordering the Convention Area, for a period greater than 20 consecutive days. The current voyage shall not be considered to have ended as long as the vessel has catch on board from the Regulatory Area.
8. Contracting Parties may exercise, by letter to the Executive Secretary, the option to have inspectors summarize from logbook records for the quota period, instead of the current voyage, their vessel's catch in the Regulatory Area by species and by division and record this summary in section 15 of the inspection form.
9. Inspectors shall convert production weight recordings in the production logbooks into live weight so that the latter can be verified against the logbook entries which are made in live weight. Inspectors shall be guided by conversion factors established by the master of the vessel.

10. The duration of an inspection shall not exceed three hours, or until the net is hauled in and the net and catch are inspected, whichever is longer. This time limitation shall not apply in the case of an infringement.
11. In the case of a difference between the recorded catches and the estimates of the inspector of the catch on board the vessel, the inspector may re-check calculations, procedures, the relevant documentation used to determine the catch summaries from the Regulatory Area and the catch on board the vessel. Any such differences shall be duly noted in section 18 of the inspection report. The inspector shall leave the vessel within one hour following the completion of the original inspection.
12. In the case of a language difficulty, the inspector or the master shall use, in the appropriate language, the appropriate part of the questionnaire shown in Annex 17.
13. The inspection report may be commented upon and shall be signed by all the persons that the form requires. A copy of the report shall be given to the master of the vessel.
14. Each Contracting Party shall ensure that its inspection platforms are kept at a safe distance from fishing vessels and that its inspectors respect the provisions of this Scheme as well as any other applicable rules of international law.

Article 29 **Obligations of Vessel Masters During Inspection**

1. The master of a fishing vessel shall:
 - a) facilitate boarding as soon as possible in accordance with good seamanship when given the appropriate signal in the International Code of Signals by a vessel or helicopter carrying an inspector;
 - b) facilitate the work of the inspector, in particular give access to registration documents, drawings or descriptions of their fish rooms, production logbooks or stowage plans and give such assistance as is possible and reasonable and necessary to ascertain that the stowage conforms to the stowage plan, no interference being allowed in the stowage of product or in the technological process on the vessel;
 - c) provide a boarding ladder constructed and used as described in Annex 19 for vessels longer than 30 metres overall;
 - d) provide such assistance to boarding's from helicopters as specified or as qualified in Annex 20; and
 - e) identify his vessel as the vessel in charge of a pair trawling operation by flying a pennant or flag on the approach of an inspector.

2. The procedures established for personnel helicopter hoist transfers shall not place a higher duty of care upon the master of a fishing vessel than that required by international law.

Article 30 **Inspection Reports**

1. The original of the inspection reports shall be transmitted within 30 days, whenever possible, to the Contracting Party for the inspected vessel.

2. In case of an infringement or a difference between recorded catches and the inspector's estimates of the catches on board, a copy of the inspection report with supporting documents, including second photographs taken, shall be transmitted to the Contracting Party for the inspected vessel. This documentation shall be transmitted within 10 days after the inspection vessel returns to port.
3. The inspectors shall also within 24 hours transmit to the Contracting Party of the inspected vessel a statement which shall constitute advance notification of the infringement. This statement shall quote the information entered under points 16 and 18 of the inspection report, cite the relevant measures and describe in detail the basis for issuing the citation for an infringement and the evidence in support of the citation.
4. If inspectors in the course of an inspection make comments and observations in the inspection report, in particular under point 20 thereof, the inspectors shall promptly prepare a written statement. This statements shall cite the relevant measures, describe the practices observed and substantiate the grounds for their suspicions and shall be sent within 24 hours to the Contracting Party of the inspected vessel.
5. A copy of all documents referred to in paragraphs 1-4 shall be transmitted to the Executive Secretary by the inspecting Contracting Party. The Executive Secretary and the Contracting Parties shall treat this information with the confidentiality required for the protection of individual data.
6. Contracting Parties inspecting vessels shall provide notification of a list of vessels inspected on a calendar monthly basis to the Contracting Parties of the vessels inspected. This list shall be transmitted via the Executive Secretary.
7. If a Non-Contracting Party vessel which has been sighted and reported as engaged in fishing activities in the Regulatory Area is boarded by inspectors, the findings of the inspectors shall without delay be transmitted to the Executive Secretary. The Executive Secretary will transmit this information to all Contracting Parties within 72 hours of receiving this information and as soon as possible to the Flag State of the boarded vessel.

Article 31

Procedures to Deal with Infringements

1. If an inspector observes an infringement of the Conservation and Enforcement Measures, the inspector shall:
 - a) note the infringement in the inspection report, sign the entry and obtain the countersignature of the master;
 - b) enter and sign a notation in the fishing logbook or other relevant document stating the date, location, and type of infringement found. The inspector may make a copy of any relevant entry in such a document and require the master of the vessel to certify in writing on each page of the copy that it is a true copy of such entry;
 - c) if necessary, document the infringement with photographs of the gear or catch. The inspectors shall in such case give one photograph to the master of the vessel and attach a second photograph to the report sent to the Contracting Party for the inspected vessel.

2. The inspector shall immediately attempt to communicate with an inspector of the Contracting Party for the inspected vessel, known to be in the vicinity, or the authority designated in accordance with Article 24(4) when an inspector finds an infringement of measures prohibiting activities described in subparagraphs a) – c). The master of the inspected vessel shall provide the use of the vessel's communication equipment and operator for messages to be sent out and received for this purpose.

- a) fishing in a closed area or with gear prohibited in a specific area;
- b) fishing for stocks or species after the date on which the Contracting Party for the inspected vessel has notified the Executive Secretary that vessels of that party will cease a directed fishery for those stocks or species; or
- c) fishing on an "Others" quota without prior notification to the Executive Secretary, or more than seven working days after the Contracting Party for the inspected vessel has been notified by the Executive Secretary that fishing under an "Others" quota for that stock or species was closed.

3. At the request of the inspector, a master shall cease all fishing which appears to the inspector to contravene the measures referred to in paragraph 2 (a) to (c). During this time, the inspector shall complete the inspection and, if unable within a reasonable period of time to communicate with an inspector or competent authority of the Contracting Party for the inspected vessel, he shall leave the inspected vessel and communicate as soon as possible with one of them. However, the inspector may remain aboard the inspected vessel provided that he succeeds in establishing communications and that the inspector or competent authority of the Contracting Party for the inspected vessel agrees. As long as the inspector remains aboard, the master may not resume fishing until the inspector is reasonably satisfied, as a result of either the action taken by the vessel's master or the inspector's communication with an inspector or competent authority of the Contracting Party for the inspected vessel, that the infringement will not be repeated.

4. The inspector may request that the master remove any part of the fishing gear which appears to the inspector to be contrary to the Conservation and Enforcement Measures. The inspection seal depicted in Annex 21 shall be affixed securely to any part of the fishing gear which appears to the inspector to have been in contravention, and the inspector shall record the fact in the report. The gear shall be preserved with the seal attached until examined by an inspector or competent authority of the Contracting Party for the inspected vessel who shall determine the subsequent disposition of the gear.

5. An inspector may photograph the fishing gear in such a way that the identification mark and measurements of the fishing gear are visible. Objects photographed should be listed in the report. A second photograph shall be given to the master of the vessel.

6. An inspector observing a failure of a vessel to enable an inspection party to board after being properly signaled shall report the infringement as soon as possible to an inspector, known to be in the vicinity, or designated authority of the Contracting Party of the vessel concerned. A report shall be sent to the Executive Secretary giving as much information as possible, including the nature of the signal, the distance from which the signal was given, the visibility at the time, sea state, wind and icing conditions.

Article 32 **Serious Infringements**

1. The following infringements shall be considered serious:
 - a) misreporting of catches;
 - b) mesh size violations;
 - c) hail system violations;
 - d) interference with the satellite monitoring system;
 - e) preventing inspectors or observers from carrying out their duties; and
 - f) directed fishing for a stock which is subject to a moratorium or for which fishing is prohibited.

2. If an inspector cites a vessel for having committed a serious infringement as listed in paragraph 1, the Contracting Party of the vessel shall ensure that the vessel concerned is inspected within 72 hours by an inspector authorized by that Contracting Party. The inspector shall take all necessary measures to ensure security and continuity of the evidence, including, as appropriate, sealing the vessel's hold for eventual port inspection. The inspector may remain on board the vessel for the period necessary to provide information to the authorized inspector concerning the infringement.

3. Where justified, the competent authorities of the Contracting Party of the vessel concerned shall, where authorized to do so, require the vessel to proceed immediately to a port for a thorough inspection under the authority of the Flag State and in the presence of an inspector from any other Contracting Party which wishes to participate. This port, chosen by the master, should be either St. John's or Halifax, Canada, the home port of the vessel or a port designated by the Flag State. If the vessel is not called to port, the Contracting Party must provide due justification in a timely manner to the Executive Secretary who shall make it available on request to any Contracting Party.

4. When a vessel is required to proceed to port pursuant to paragraph 3, an inspector from another Contracting Party may, subject to the consent of the Contracting Party of the vessel, board and remain on board the vessel as it is proceeding to port.

5. When an inspector cites a vessel for having committed a serious infringement as listed in paragraph 1, the inspector shall immediately report this to the Executive Secretary, who shall in turn immediately inform other Contracting Parties with an inspection vessel in the Convention Area.

Article 33 **Follow up to Infringements**

1. The competent authorities of a Contracting Party notified of an infringement committed by one of its vessels shall take prompt action to conduct the investigations necessary to obtain the evidence required and, whenever possible, inspect the vessel involved. The authorities shall take immediate judicial or administrative action in the same manner as would have been the case when dealing with infringements of fisheries regulations in national waters.

2. The competent authorities of the Contracting Party for the vessel concerned shall cooperate fully with those of the Contracting Party which carried out an inspection to ensure that all evidence of the infringement is prepared and preserved in a form which facilitates judicial action.

3. The provisions in this Chapter shall not impose any obligation on the competent authorities of a Contracting Party to give the report from a foreign inspector a higher evidentiary value than it would possess in the inspector's own country.

4. Resistance to an inspector or failure to comply with his directions shall be treated by the Flag State of the vessel as if the inspector were an inspector of that State.

Article 34 **Treatment of Reports from Inspectors**

Contracting Parties shall consider and act on reports from inspectors of other Contracting Parties under this Scheme on the same basis as reports from its own inspectors. Contracting Parties shall collaborate in order to facilitate judicial or other proceedings arising from a report submitted by the inspector under the scheme, subject to the rules governing the admissibility of evidence in domestic courts.

Article 35 **Report on Infringements**

1. Contracting Parties shall report to the Executive Secretary by 1 February (for the period 1 July – 31 December of the previous year) and 1 September (for the period 1 January – 30 June of the current year) each year:

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

2. The report referred to in paragraph 1 shall indicate the current status of the case (e.g. case pending, under appeal, still under investigation) and describe in specific terms any penalties imposed (e.g. level of fines, value of forfeited fish and/or gear, written warning given). The report shall include an explanation if no action has been taken.

Article 36 **Reports on Inspection and Surveillance Activities**

Contracting Parties shall report to the Executive Secretary by 1 March each year for the previous calendar year:

- a) the number of inspections conducted by it under this Scheme. The report shall specify the number of inspections on the vessels of each Contracting Party and, in the case of infringement, the date and position of the inspection of the named vessel and the nature of the infringement; and
- b) the number of air hours flown on patrol, the number of sightings and the number of surveillance reports established with the date, time and position of the sightings in respect of these surveillance reports.

Article 37
Interpretation or Application

1. In the event of a disagreement concerning the interpretation or application of the provisions of this Scheme, the concerned Contracting Parties shall consult in an attempt to resolve the disagreement.
2. If the disagreement remains unresolved following the consultations, the Executive Secretary shall at the request of a Contracting Party refer the disagreement to a special meeting of the Standing Committee on International Control (STACTIC).
3. A report on the disagreement shall be drawn up by STACTIC and transferred to the Fisheries Commission within two months of the STACTIC meeting.
4. Upon receipt of the STACTIC report, a Contracting Party may within a further period of two months request a special meeting of the Fisheries Commission to consider the report and to take appropriate action.

CHAPTER V
INSPECTIONS IN PORT

Article 38
Port Inspection Procedures

1. When, in the port of a Contracting Party, a port call is made by a vessel which has been engaged in fishing for stocks subject to the Conservation and Enforcement Measures, that Contracting Party shall ensure that its inspector is present and that, on each occasion when catch is offloaded, an inspection takes place to verify the species and quantities caught. The port inspection report in Annex 22 shall be used. The Contracting Party shall ensure that the interference in the offloading activity is minimized and that the quality of the catch is not adversely affected.
2. The quantities landed by species and the quantities retained on board, if any, shall be cross-checked with the quantities recorded in logbooks, catch reports on exit from the Regulatory Area, and reports of any inspections carried out under the Scheme.
3. Any information from inspections under Chapter IV shall be verified.
4. Inspections shall include verification of mesh size of nets on board and size of fish retained on board.
5. Results of port inspections shall include at least the information listed in section I–B of Annex 22.
6. The competent authorities of Contracting Parties shall, every two years, check each of their vessels, notified in accordance with Article 14, to certify the correctness of the vessel's plans for fish rooms and other fish storage places. The master shall ensure that a copy of such certification remains on board to be shown to a NAFO inspector if requested.

Article 39
Transmission of Port Inspection Reports

1. The competent authorities of the Port State shall, on request, transmit the results of the port inspection to the Flag State of the vessel within 14 working days of the date on which the port inspection was completed.
2. A copy of the results of the port inspection shall be transmitted to the Executive Secretary within 30 days as from the date on which the landing was completed and shall be provided to other Contracting Party on request.
3. Where possible, Contracting Parties should transmit the results of the port inspection in accordance with this paragraph in the format defined in Part A of Annex 22.

Annexes and Attachments to the Conservation and Enforcement Measures

Annex 1
Annual Quota Table

[To be included]

Annex 2
List of Species

SPECIES NAME CODE

Common English Name	Scientific Name	3-alpha Code
PRINCIPAL GROUND FISH (EXCEPT FLATFISHES)		
Atlantic cod.....	<i>Gadus morhua</i>	COD
Haddock.....	<i>Melanogrammus aeglefinus</i>	HAD
Atlantic redfishes.....	<i>Sebastes</i> sp.....	RED
Golden redfish.....	<i>Sebastes marinus</i>	REG
Beaked redfish (deep-water).....	<i>Sebastes mentella</i>	REB
Acadian redfish.....	<i>Sebastes fasciatus</i>	REN
Silver hake.....	<i>Merluccius bilinearis</i>	HKS
Red hake*.....	<i>Urophycis chuss</i>	HKR
Pollock (=Saithe).....	<i>Pollachius virens</i>	POK
FLATFISHES		
American plaice.....	<i>Hippoglossoides platessoides</i>	PLA
Witch flounder.....	<i>Glyptocephalus cynoglossus</i>	WIT
Yellowtail flounder.....	<i>Limanda ferruginea</i>	YEL
Greenland halibut.....	<i>Reinhardtius hippoglossoides</i>	GHL
Atlantic halibut.....	<i>Hippoglossus hippoglossus</i>	HAL
Winter flounder.....	<i>Pseudopleuronectes americanus</i>	FLW
Summer flounder.....	<i>Paralichthys dentatus</i>	FLS
Windowpane flounder.....	<i>Scophthalmus aquosus</i>	FLD
Flatfishes (NS).....	<i>Pleuronectiformes</i>	FLX
OTHER GROUND FISH		
American angler (=Goosefish).....	<i>Lophius americanus</i>	ANG
Atlantic searobins.....	<i>Prionotus</i> sp.....	SRA
Atlantic tomcod.....	<i>Microgadus tomcod</i>	TOM
Blue antimora.....	<i>Antimora rostrata</i>	ANT
Blue whiting.....	<i>Micromesistius poutassou</i>	WHB
Cunner.....	<i>Tautoglabrus adspersus</i>	CUN
Cusk (=Tusk).....	<i>Brosme brosme</i>	USK
Greenland cod.....	<i>Gadus ogac</i>	GRC
Blue ling.....	<i>Molva dypterygia</i>	BLI
Ling.....	<i>Molva molva</i>	LIN
Lumpfish (=Lumpsucker).....	<i>Cyclopterus lumpus</i>	LUM
Northern kingfish.....	<i>Menticirrhus saxatilis</i>	KGF
Northern puffer.....	<i>Sphoeroides maculatus</i>	PUF
Eelpouts (NS).....	<i>Lycodes</i> sp.....	ELZ
Ocean pout.....	<i>Macrozoarces americanus</i>	OPT
Polar cod.....	<i>Boreogadus saida</i>	POC
Roundnose grenadier.....	<i>Coryphaenoides rupestris</i>	RNG
Roughhead grenadier.....	<i>Macrourus berglax</i>	RHG
Sandeels (=Sand lances).....	<i>Ammodytes</i> sp.....	SAN
Sculpins.....	<i>Myoxocephalus</i> sp.....	SCU
Scup.....	<i>Stenotomus chrysops</i>	SCP

*In accordance with a recommendation adopted by STACRES at the 1970 Annual Meeting (ICNAF Redbook 1970, Part I, Page 67), hakes of the Genus *Urophycis* are designated as follows for statistical reporting: (a) hake reported from Subareas 1,2 and 3, and Divisions 4R, S, T and V be designated as white hake, *Urophycis tenuis*; (b) hake taken by line gears or any hake greater than 55 cm standard length, regardless of how caught, from Divisions 4W and X, Subarea 5 and Statistical Area 6 be designated as white hake, *Urophycis tenuis*; (c) Except as noted in (b), other hake of the Genus *Urophycis* taken in Divisions 4W and X, Subarea 5 and Statistical Area 6 be designated as red hake, *Urophycis chuss*.

Common English Name	Scientific Name	3-Alpha Code
OTHER GROUND FISH (cont'd)		
Tautog.....	<i>Tautoga onitis</i>	TAU
Tilefish.....	<i>Lopholatilus chamaeleonticeps</i>	TIL
White hake*.....	<i>Urophycis tenuis</i>	HKW
Wolfishes (NS).....	<i>Anarhichas</i> sp.	CAT
Atlantic wolffish.....	<i>Anarhichas lupus</i>	CAA
Spotted wolffish.....	<i>Anarhichas minor</i>	CAS
Groundfish (NS).....	GRO
PRINCIPAL PELAGICS		
Atlantic herring.....	<i>Clupea harengus</i>	HER
Atlantic mackerel.....	<i>Scomber scombrus</i>	MAC
OTHER PELAGIC FISH		
Atlantic butterfish.....	<i>Peprilus triacanthus</i>	BUT
Atlantic menhaden.....	<i>Brevoortia tyrannus</i>	MHA
Atlantic saury.....	<i>Scomberesox saurus</i>	SAU
Bay anchovy.....	<i>Anchoa mitchilli</i>	ANB
Bluefish.....	<i>Pomatomus saltatrix</i>	BLU
Creville jack.....	<i>Caranx hippos</i>	CVJ
Frigate tuna.....	<i>Auxis thazard</i>	FRI
King mackerel.....	<i>Scomb eromorus cavalla</i>	KGM
Atlantic Spanish mackerel.....	<i>Scomberomorus maculatus</i>	SSM
Sailfish.....	<i>Istiophorus platypterus</i>	SAI
White marlin.....	<i>Tetrapturus albidus</i>	WHM
Blue marlin.....	<i>Makaira nigricans</i>	BUM
Swordfish.....	<i>Xiphias gladius</i>	SWO
Albacore tuna.....	<i>Thunnus alalunga</i>	ALB
Atlantic bonito.....	<i>Sarda sarda</i>	BON
Little tunny.....	<i>Euthynnus alletteratus</i>	LTA
Bigeye tunny.....	<i>Thunnus obesus</i>	BET
Northern bluefin tuna.....	<i>Thunnus thynnus</i>	BFT
Skipjack tuna.....	<i>Katsuwonus pelamis</i>	SKJ
Yellowfin tuna.....	<i>Thunnus albacares</i>	YFT
Tunas (NS).....	<i>Scombridae</i>	TUN
Pelagic fish (NS).....	PEL
OTHER FISH		
Alewife.....	<i>Alosa pseudoharengus</i>	ALE
Amberjacks.....	<i>Seriola</i> sp.	AMX
American conger.....	<i>Conger oceanicus</i>	COA
American eel.....	<i>Anguilla rostrata</i>	ELA
Atlantic hagfish.....	<i>Myxine glutinosa</i>	MYG
American shad.....	<i>Alosa sapidissima</i>	SHA
Argentines (NS).....	<i>Argentina</i> sp.	ARG
Atlantic croaker.....	<i>Micropogonias undulatus</i>	CKA
Atlantic needlefish.....	<i>Strongylura marina</i>	NFA
Atlantic salmon.....	<i>Salmo salar</i>	SAL
Atlantic silverside.....	<i>Menidia menidia</i>	SSA
Atlantic thread herring.....	<i>Opisthonema oglinum</i>	THA
Baird's slickhead.....	<i>Alepocephalus bairdii</i>	ALC

Common English Name	Scientific Name	3-Alpha Code
<u>OTHER FISH (cont'd)</u>		
Black drum.....	<i>Pogonias cromis</i>	BDM
Black seabass.....	<i>Centropristis striata</i>	BSB
Blueback herring	<i>Alosa aestivalis</i>	BBH
Capelin	<i>Mallotus villosus</i>	CAP
Chars (NS).....	<i>Salvelinus</i> sp.....	CHR
Cobia.....	<i>Rachycentron canadum</i>	CBA
Common (Florida) pompano.....	<i>Trachinotus carolinus</i>	POM
Gizzard shad.....	<i>Dorosoma cepedianum</i>	SHG
Grunts (NS).....	<i>Pomadasyidae</i>	GRX
Hickory shad.....	<i>Alosa mediocris</i>	SHH
Lanternfish.....	<i>Notoscopelus</i> sp.	LAX
Mulletts (NS).....	<i>Mugilidae</i>	MUL
North Atl. harvestfish.....	<i>Peprilus alepidotus (=paru)</i>	HVF
Pigfish.....	<i>Orthopristis chrysoptera</i>	PIG
Rainbow smelt.....	<i>Osmerus mordax</i>	SMR
Red drum.....	<i>Sciaenops ocellatus</i>	RDM
Red porgy	<i>Pagrus pagrus</i>	RPG
Rough scad	<i>Trachurus lathami</i>	RSC
Sand perch	<i>Diplectrum formosum</i>	PES
Sheepshead	<i>Archosargus probatocephalus</i>	SPH
Spot croaker.....	<i>Leiostomus xanthurus</i>	SPT
Spotted weakfish.....	<i>Cynoscion nebulosus</i>	SWF
Squeteague (Gray weakfish).....	<i>Cynoscion regalis</i>	STG
Striped bass.....	<i>Morone saxatilis</i>	STB
Sturgeons (NS).....	<i>Acipenseridae</i>	STU
Tarpon.....	<i>Tarpon (=megalops) atlanticus</i>	TAR
Trouts (NS).....	<i>Salmo</i> sp.	TRO
White perch	<i>Morone americana</i>	PEW
Alfonsinos (NS).....	<i>Beryx</i> sp.	ALF
Spiny (=picked) dogfish.....	<i>Squalus acanthias</i>	DGS
Dogfishes (NS).....	<i>Squalidae</i>	DGX
Sand Tiger shark.....	<i>Odontaspis taurus</i>	CCT
Porbeagle	<i>Lamna nasus</i>	POR
Shortfin Mako shark.....	<i>Isurus oxyrinchus</i>	SMA
Dusky shark.....	<i>Carcharhinus obscurus</i>	DUS
Great Blue shark.....	<i>Prionace glauca</i>	BSH
Large sharks (NS)	<i>Squaliformes</i>	SHX
Atlantic Sharpnose shark.....	<i>Rhizoprionodon terraenova</i>	RHT
Black Dogfish.....	<i>Centroscyllium fabricii</i>	CFB
Boreal (Greenland) shark.....	<i>Somnius microcephalus</i>	GSK
Basking shark.....	<i>Cetorhinus maximus</i>	BSK
Skates (NS).....	<i>Raja</i> sp.	SKA
Little skate	<i>Leucoraja erinacea</i>	RJD
Arctic skate	<i>Amblyraja hyperborea</i>	RJG
Barndoor skate.....	<i>Dipturus laevis</i>	RJL
Winter skate.....	<i>Leucoraja ocellata</i>	RJT
Thorny skate (Starry Ray).....	<i>Amblyraja radiata</i>	RJR
Smooth skate	<i>Malacoraja senta</i>	RJS
Spinytail skate (Spinetail Ray).....	<i>Bathyraja spinicauda</i>	RJQ
Finfishes (NS).....	FIN

INVERTEBRATES

Long-finned squid(<i>Loligo</i>).....	<i>Loligo pealei</i>	SQL
Short-finned squid (<i>Illex</i>).....	<i>Illex illecebrosus</i>	SQI
Squids (NS).....	<i>Loliginidae, Ommastrephidae</i>	SQU
Atlantic razor clam.....	<i>Ensis directus</i>	CLR
Hard clam.....	<i>Mercenaria mercenaria</i>	CLH
Ocean quahog.....	<i>Arctica islandica</i>	CLQ
Soft clam.....	<i>Mya arenaria</i>	CLS
Surf clam.....	<i>Spisula solidissima</i>	CLB
Stimpson's surf clam.....	<i>Spisula polynyma</i>	CLT
Clams (NS).....	<i>Prionodesmacea, Teleodesmacea</i>	CLX
Bay scallop.....	<i>Argopecten irradians</i>	SCB
Calico scallop.....	<i>Argopecten gibbus</i>	SCC
Iceland scallop.....	<i>Chylamys islandica</i>	ISC
Sea scallop.....	<i>Placopecten magellanicus</i>	SCA
Scallops (NS).....	<i>Pectinidae</i>	SCX
American cupped oyster.....	<i>Crassostrea virginica</i>	OYA
Blue mussel.....	<i>Mytilus edulis</i>	MUS
Whelks (NS).....	<i>Busycon</i> sp.	WHX
Periwinkles (NS).....	<i>Littorina</i> sp.	PER
Marine molluscs (NS).....	<i>Mollusca</i>	MOL
Atlantic rock crab.....	<i>Cancer irroratus</i>	CRK
Blue crab.....	<i>Callinectes sapidus</i>	CRB
Green crab.....	<i>Carcinus maenas</i>	CRG
Jonah crab.....	<i>Cancer borealis</i>	CRJ
Queen crab.....	<i>Chionoecetes opilio</i>	CRQ
Red crab.....	<i>Geryon quinquedens</i>	CRR
Stone king crab.....	<i>Lithodes maia</i>	KCT
Marine crabs (NS).....	<i>Reptantia</i>	CRA
American lobster.....	<i>Homarus americanus</i>	LBA
Northern prawn.....	<i>Pandalus borealis</i>	PRA
Aesop shrimp.....	<i>Pandalus montagui</i>	AES
Penaeus shrimps (NS).....	<i>Penaeus</i> sp.	PEN
Pink (=Pandalid) shrimps.....	<i>Pandalus</i> sp.	PAN
Marine crustaceans (NS).....	<i>Crustacea</i>	CRU
Sea urchin.....	<i>Strongylocentrotus</i> sp.	URC
Marine worms (NS).....	<i>Polychaeta</i>	WOR
Horseshoe crab.....	<i>Limulus polyphemus</i>	HSC
Marine invertebrates (NS).....	<i>Invertebrata</i>	INV

Annex 3 Gauges

Certified Mesh Measuring Gauges

Each gauge is a flat wedge-shaped gauge having a constant taper in width of 1 in 4 (reducing the width 1 unit for every 4 units of length) and a constant thickness not less than 2 millimeters and not more than 2.4 millimeters ($2 \text{ mm} \leq \text{thickness} \leq 2.4 \text{ mm}$), inserted into the meshes with a force of 5 kilograms.

Since it is not practical to have one gauge for measuring all the mesh sizes authorized in the Regulatory Area, each Contracting Party will issue a series of certified mesh measuring gauges as it deems adequate to cover the range of authorized mesh sizes of nets.

All certified mesh measuring gauges are to be graduated in increments of 1 millimeter and the material used should be rigid, durable and considered suitable by the fisheries authorities of the Contracting Party which certifies them.

The drawings shown in this Annex should serve only as a guide to the construction of the gauges and not as a blueprint for that construction. It is to be understood that such details as the number of gauges to cover the complete series, corner radii, certification marks or numbers, the existence or not of handles and lightening or handling holes, and all other details and dimensions are not part of the Rules.

1. Example of Large Size Gauge

[to be included]

2. Example of Small Size Gauge

[to be included]

Annex 4 Chafers

Authorized Topside Chafers

1. ICNAF-type topside chafer

The ICNAF-type topside chafer is a rectangular piece of netting to be attached to the upper side of the codend of the trawl net to reduce and prevent damage so long as such netting conforms to the following conditions:

- (a) this netting shall have a mesh size not less than that specified for the codend in sub-paragraph 1(a) of Section B of PART II. For the purposes of this sub-paragraph, the mesh size when measured wet after use shall be taken to be the average of the measurements of 20 consecutive meshes in a series across the netting, such measurements to be made with the gauge described in Schedule V;
- (b) this netting may be fastened to the codend only along the forward and lateral edges of the netting and at no other place in it, and shall be fastened in such a manner that it extends

forward of the splitting strap no more than four meshes and ends not less than four meshes in front of the cod line mesh; where a splitting strap is not used, the netting shall not extend to more than one-third of the codend measured from not less than four meshes in front of the cod line mesh;

- (c) the width of this netting shall be at least one and a half times the width of the area of the codend which is covered, such widths to be measured at right angles to the long axis of the codend.

Refer to page 70 of NAFO/FC Doc. 00/1

2. Multiple flap-type topside chafer

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

- (a) each piece of netting
- (a) is fastened by its forward edge only across the codend at right angles to its long axis;
 - (b) is of a width of at least the width of the codend (such width being measured at right angles to the long axis of the codend at the point of attachment); and
 - (c) is not more than ten meshes long; and
- (ii) the aggregate length of all the pieces of netting so attached does not exceed two-thirds of the length of the codend.

Refer to page 71 of NAFO/FC Doc. 00/1

1. Large-mesh (modified Polish-type) topside chafer

The large-mesh topside chafer consists of a rectangular piece of netting made of the same twine material as the codend, or of a single, thick, knotless twine material, attached to the rear portion of the upper side of the codend and extending over all or any part of the upper side of the codend and having in all its parts a mesh size twice that of the codend when measured wet and fastened to the codend along the forward, lateral and rear edges only of the netting in such a way that each mesh of the netting coincides with four meshes of the codend.

Although not exhaustive, the following examples are included because they are the most common.

EXAMPLE 1 - CHAFER COVERING THREE FIFTHS OF THE LENGTH OF THE CODEND; METHOD OF RIGGING.

Refer to page 72 of NAFO/FC Doc.00/1

EXAMPLE 2 - CHAFER COVERING THE WHOLE LENGTH OF THE CODEND: MANNER IN WHICH THE CHAFER IS FITTED TO THE CODEND.

Refer to page 73 of NAFO/FC Doc.00/1

**EXAMPLE 3 - CHAFER OF SINGLE-BRAIDED, THICK, KNOTLESS TWINE
MATERIAL: MANNER IN WHICH THE CHAFER IS FITTED TO THE CODEND.**

Refer to page 74 of NAFO/FC Doc.00/1

**Annex 5
Minimum Fish Size**

1. Minimum Fish Size

<u>Species</u>	<u>Minimum Size</u>
Atlantic cod, <i>Gadus morhua</i> L.	41 cm
American plaice, <i>Hippoglossoides platessoides</i> (Fab)	25 cm
Yellowtail flounder, <i>Limanda ferruginea</i> (Storer)	25 cm
Greenland Halibut, <i>Reinhardtius Hippoglossoides</i>	30 cm

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

2. Length Equivalents for Processed Fish

Species	Gilled and gutted fish whether or not skinned; fresh or chilled, frozen, or salted			
	whole	head off	head and tail off	head off and split
Atlantic Cod	41 cm	27 cm	22 cm	27/25* cm
American Plaice	25 cm	19 cm	15 cm	NA
Yellowtail flounder	25 cm	19 cm	15 cm	NA

*Lower size for green salted fish.

**Annex 6
Notification of Vessels**

Fishing vessels:

1. Vessels registered in a Contracting Party.
 - (a) name of vessel in both native and Latin alphabet;
 - (b) official numbers;
 - (c) home port and nationality;
 - (d) owner and charterer, if any;
 - (e) certification that its master has been provided with the extent Commission's measures;
 - (f) principle target species while engaged in fishing in the Regulatory Area.

2. Vessels temporarily flying the flag of a Contracting Party (bare boat charter)
 - (a) date as from which the vessel has been authorized to fly its flag
 - (b) date as from which the vessel has been authorized by the Contracting Party to engage fishing in the Regulatory Area
 - (c) the name of the State where the vessel is registered or was previously registered and the date as from which it ceased flying the flag of that State;
 - (d) name of vessel in both native and Latin alphabet;

- (e) official numbers;
- (f) home port and nationality after the transfer;
- (g) owner and charterer, if any;
- (h) certification that its master has been provided with the extant NAFO measures;
- (i) principle target species while engaged in fishing in the Regulatory Area.

Research Vessels

1. Information on the vessel

- (a) name of vessel owner and address;
- (b) type and name of vessel;
- (c) length, beam and draft of vessel;
- (d) port of registration, registration number, and radio call sign;
- (e) a note whether the vessel is a permanent research vessel or the period for which the vessel will be employed as a research vessel; and
- (f) for vessels which are temporarily employed in research only, purpose and area of research and plan of research program.

2. In the case of vessels described in sub-paragraph 1(f), a Contracting Party immediately upon the conclusion of the research activities shall so inform the Executive Secretary.

3. The information transmitted to the Executive Secretary shall be available in the English language aboard the vessel, either in the form of a plan of research or as a copy of the communication to the Executive Secretary. In the event that changes are made to the plan or period of research vessels described in sub-paragraph 3(f), **revised information** shall be given to the Executive Secretary **not less than seven days** before the effective date of the changes. A record of any changes shall be kept aboard the vessel.

Annex 7 Vessel Documents

Vessels over 10 metres in length shall carry on board documents showing at least the following elements:

- its name, if any
- the letter(s) of the port or district in which it is registered, and the number(s) under which it is registered
- its international radio call sign, if any
- the names and addresses of the owner(s) and, where applicable, the charterers its length and engine power

Annex 8 Definitions of Mesh

The following definitions apply for various components and attachments of a trawl:

1. Topside or upperside component is (a), in a 2-seam trawl, that portion of the net, between the two seams or lacings, which is nearer to the sea surface while the trawl is in tow, and (b), in a 4-seam trawl, that portion of the net between those two seams or lacings which are nearest to the sea surface while the trawl is in tow.

2. Bottomside or underside component is (a), in a 2-seam trawl, that portion of the net, between the two seams or lacings, which is nearer to the sea-bed while the trawl is in tow, and (b), in a 4-seam trawl, that portion of the net, opposite the topside or upperside component, between those two seams or lacings which are nearest to the sea-bed while the trawl is in tow.
3. Side components, in a 4-seam trawl, are the two other portions of the net, between seams or lacings, while the trawl is in tow.
4. Square is that part of the topside or upperside component, without a counterpart in the bottomside or underside component, which is connected aft to the belly and forward (a) to the beam in a beam trawl and (b) to the headrope or headline in any other trawl net.
5. Bellies are panels of the bottom trawl net (a), in a trawl with a square, starting from the square on the topside or upperside component and from the lower wings or from the footrope on the bottomside or underside component and joining aft either to the belly extension or to a lengthener or to the codend; or (b), in a trawl with no square, starting from the wings and joining aft either to the belly extension or to a lengthener or to the codend. Side bellies are panels of the 4-seam bottom trawl net side components, starting from the bunt, if there is a square, and from the bunt wings, if there is not, and joining aft either to the belly extension or to a lengthener or to the codend.
6. Belly extension is a tapered piece of netting which may be attached to the after end of the belly so that the effective length of the belly is extended.
7. Lengthener or lengthening piece is a piece of net, untapered at least in the plan view of the net, which may be inserted between the belly, or belly extension, if any, and the codend to increase catch capacity.
8. Codend is the after portion of the trawl net, untapered at least in the plan view of the net, attached to the after end of the belly (or belly extension or lengthener, if present), or the panels in a midwater trawl, secured to form a bag by means of a codline or codend clip reaved through the after meshes, or rings attached thereto, in order to retain the catch until released on board the trawler.
9. Chafing gear or chafers are attachments to the trawl net designed to protect or reinforce the codend.

Two distinct types may be considered, according to the part of the codend they protect or reinforce: (a) topside chafing gear or topside chafer is an attachment to the topside or upperside of the codend, in a 2-seam trawl, and to the topside or upperside and sides of the codend in a 4-seam trawl; and (b) bottom chafing gear or bottom chafer is an attachment designed to reduce or prevent damage due to friction against the sea bottom or the vessel's deck, affixed only to the bottomside or underside of the codend.

10. Panel is: (a) in the case of midwater trawls, the total area of netting, irrespective of mesh size, between each pair of adjacent seams or lacings of the trawl, forward of the codend; and consequently, in a 4-seam trawl, there will be the top or upper panel, the bottom or lower panel and two side panels; and (b) in the case of bottom trawls, each area of netting limited transversally by successive joins or joinings and longitudinally by adjacent seams or lacings.

Annex 9
Recording of Catch (Logbook Entries)

FISHING LOGBOOK ENTRIES

<u>Item of Information</u>	<u>Standard Code</u>
Vessel name	01
Vessel nationality	02
Vessel registration number	03
Registration port	04
Types of gear used (daily)	10
Type of gear	*2
Date - day	20
- month	21
- year	22
Position – latitude	31
- longitude	32
- statistical area	33
* ¹ No. of hauls during the 24-hour period	40
* ¹ No. of hours gear fished during the 24-hour period	41
Species names	*2
Daily catch of each species (metric tons round fresh weight)	50
Daily catch of each species for human consumption in the form of fish	61
Daily catch of each species for reduction	62
Daily discard of each species	63
Place(s) of transshipment	70
Date(s) of transshipment	71
Master's signature	80

Instructions:

*¹When two or more types of gear are used in the same 24-hour period, records should be separate for the different types.

*²Please see attached sheets showing the applicable codes:

Type of Gear - Attachment I

Species Names - Attachment II

ATTACHMENT I**TYPE OF GEAR CODE**

Gear Categories	Standard Abbreviation Code
SURROUNDING NETS	
With purse lines (purse seines) - one boat operated purse seines - two boats operated purse seines Without purse lines (lampara)	PS PS1 PS2 LA
SEINE NETS	
Beach seines Boat or vessel seines - Danish seines - Scottish seines - Pair seines Seine nets (not specified)	SB SV SDN SSC SPR SX
TRAWLS	
Bottom trawls - beam trawls - otter trawls 1/ - pair trawls - nephrops trawls - shrimp trawls - bottom trawls (not specified)	TBB OTB PTB TBN TBS TB
Midwater trawls - otter trawls - pair trawls - shrimp trawls - midwater trawls (not specified) Otter twin trawls Otter trawls (not specified) Pair trawls (not specified) Other trawls (not specified)	OTM PTM TMS TM OTT OT PT TX
DREDGES	
Boat dredges Hand dredges	DRB DRH

LIFT NETS

Portable lift nets	LNP
Boat operated lift nets	LNB
Shore operated stationary lift nets	LNS
Lift nets (not specified)	LN

FALLING GEAR

Cast nets	FCN
Falling gear (not specified)	FG

GILLNETS AND ENTANGLING NETS

Set gillnets (anchored)	GNS
Drift nets	GND
Encircling gillnets	GNC
Fixed gillnets (on stakes)	GNF
Trammel nets	GTR
Combined gillnets-Trammel nets	GTN
Gillnets and entangling nets (not specified)	GEN
Gillnets (not specified)	GN

TRAPS

Stationary uncovered pound-nets	FPN
Pots	FPO
Fyke nets	FYK
Stow-nets	FSN
Barriers, fences, weirs, etc.	FWR
Aerial traps	FAR
Traps (not specified)	FIX

HOOKS AND LINES

Hand-lines and pole-lines (hand operated) 2/	LHP
Hand-lines and pole-lines (mechanized) 2/	LHM
Set lines (longlines set)	LLS
Drifting longlines	LLD
Longlines (not specified)	LL
Trolling lines	LTL
Hooks and lines (not specified) 3/	LX

GRAPPLING AND WOUNDING

Harpoons	HAR
----------	-----

HARVESTING MACHINES

Pumps	HMP
Mechanized dredges	HMD
Harvesting machines (not specified)	HMX

MISCELLANEOUS GEAR 4/	MIS
RECREATIONAL FISHING GEAR	RG
GEAR NOT KNOWN OR NOT SPECIFIED	NK

1/ Fisheries agencies may indicate side and stern bottom and side and stern midwater trawls, as OTB-1 and OTB-2, and OTM-1 and OTM-2, respectively.

2/ Including jigging lines.

3/ Code LDV for dory operated line gears will be maintained for historical data purposes.

4/ This item includes: hand and landing nets, drive-in-nets, gathering by hand with simple hand implements with or without diving equipment, poisons and explosives, trained animals, electrical fishing.

Annex 10 Cumulative Catches

Record of Cumulative Catch (in metric tons round fresh¹ weight)

Refer to page 65 of NAFO/FC Doc.00/1

Annex 11 Hail System Format

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

EXPLANATORY NOTES

a) The formats herein conform with the requirements for the NAFO Hails System as set out in FC Document 00/1, the NAFO Conservation and Enforcement Measures Part III and Part III Annex I Hail System Message Format.

b) The formats consist of variable length delimited records, and are based on systems currently in use in NEAFC.

c) The variable length record is preferred over a fixed length record as some Contracting Parties collect more information from their vessels than is required by NAFO, and are forwarding the entire record to NAFO. The format is conducive to extraction of the required data fields by the receiving parties.

d) The following convention is used in this paper: //FIELD NAME/field value//, where the field name is shown in uppercase, followed by the character “/”, followed by the field value in lowercase. Fields are separated by “//”.

e) Each record begins with the string //SR// to indicate the Start of the Record.

f) Each record ends with the string //ER// to indicate the End of the Record.

g) Character fields (CHAR) shall conform with the ISO 8859.1 character set standard.

h) Country codes used for addressee (AD) and sender (FR) shall conform with the ISO 3166 (1993) standard. E/F 7.3 states that user-assigned country codes shall start with the character “X”, therefore it is proposed that the code XNW be used to designate the NAFO Secretariat, the addressee for hail messages.

Example 1
(continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.1 ENTRY HAIL

```
//SR
//FR/Name of transmitting party
//AD/Destination “XNW” for NAFO
//SQ/sequence number
//NA/name of vessel
//RC/International radio call sign
//XR/external identification letters and numbers
//DA/date of transmission
//TI/time of transmission
//LA/latitude at time of transmission
//LO/longitude at time of transmission
//TM/indication of type of message          “ENT”
//DI/NAFO Division into which the vessel is about to enter.
//OB/total round weight of fish by species (3 alpha codes) on board upon entry into the
Regulatory Area, in kilograms rounded to the nearest 100 kilograms. Allow several pairs of
fields, consisting of species + weight, with each field separated by a space. e.g. //OB/species
weight species weight species weight//
//MA/name of the Master
//TS/target species
```

Allow several species to be entered, with the values separated by spaces,
e.g. //TS/species species species//

```
//ER//
```

Example 1
(continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.2 MOVE HAIL

```
//SR
//FR/Name of transmitting party
//AD/Destination “XNW” for NAFO
//SQ/sequence number
//NA/name of vessel
```

//RC/International radio call sign
 //XR/external identification letters and numbers
 //DA/date of transmission
 //TI/time of transmission
 //LA/latitude at time of transmission
 //LO/longitude at time of transmission
 //TM/indication of type of message "MOV"
 //DI/NAFO Division into which the vessel is about to enter.
 //MA/name of the Master
 //TS/target species

Allow several species to be entered, with the values separated by spaces,
 e.g. //TS/species species species//

//ER//

Example 1
 (continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.3 TRANSZONAL HAIL (between NAFO Divisions)

//SR
 //FR/Name of transmitting party
 //AD/Destination "XNW" for NAFO
 //SQ/sequence number
 //NA/name of vessel
 //RC/International radio call sign
 //XR/external identification letters and numbers
 //DA/date of transmission
 //TI/time of transmission
 //LA/latitude at time of transmission
 //LO/longitude at time of transmission
 //TM/indication of type of message "ZON"
 //MA/name of the Master
 //TS/target species

Allow several species to be entered, with the values separated by spaces,
 e.g. //TS/species species species//

//ER//

Example 1
(continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.4 EXIT HAIL

//SR
 //FR/Name of transmitting party
 //AD/Destination "XNW" for NAFO
 //SQ/sequence number
 //NA/name of vessel
 //RC/International radio call sign
 //XR/external identification letters and numbers
 //DA/date of transmission
 //TI/time of transmission
 //LA/latitude at time of transmission
 //LO/longitude at time of transmission
 //TM/indication of type of message "EXI"
 //DI/NAFO Division into which the vessel is about to enter.
 //CA/catch in round weight taken in the Regulatory Area by species (3 alpha codes) in kilograms (rounded to the nearest 100 kilograms). Allow several pairs of fields, consisting of species + weight, with each field separated by a space. e.g. //CA/species weight species weight species weight//
 //MA/name of the Master
 //ER//

Example 1
(continued)

NAFO HAILS SYSTEM - Part III Annex I Hail System Message Format

1.5 TRANSHIPMENT HAIL

//SR
 //FR/Name of transmitting party
 //AD/Destination "XNW" for NAFO
 //SQ/sequence number
 //NA/name of vessel
 //RC/International radio call sign
 //XR/external identification letters and numbers
 //DA/date of transmission
 //TI/time of transmission
 //LA/latitude at time of transmission
 //LO/longitude at time of transmission
 //TM/indication of type of message "TRA"
 //KG/total round weight by species (3 alpha codes) to be transhipped in kilograms (rounded to the nearest 100 kilograms). Allow several pairs of fields, consisting of species + weight, with each field separated by a space. e.g. //KG/species weight species weight species weight//
 //MA/name of the Master
 //ER//

Refer to page 14 of the Supplement of FC Doc. 00/1

**Annex 12
VMS Data Format**

Refer to page 15 of the supplement to FC doc 00/1

**Annex 13
Inspection Guidelines**

(Guidelines for the Coordination and Optimization of Inspection and Control in the Regulatory Area)

1. Contracting Parties engaged in surveillance or inspection activities in the Regulatory Area shall, where possible, co-ordinate their efforts through an exchange of information.
 - (a) Inspection vessels shall provide notification to Executive Secretary and competent authorities/inspection vessels of Contracting Parties with an inspection presence in the Regulatory Area. This notification should be completed as far in advance as is practicable and include the inspection vessel's name, radio call sign, communication capability, name(s) of NAFO inspectors and ETA/ETD Regulatory Area.
 - (b) In response to the notification outlined in (a), inspection vessels operating in the Area at the time, or, where appropriate, the competent authorities of those Contracting Parties which have an inspection/surveillance presence in the Area, shall provide to the inspection vessel which is entering the Area a list of sightings/boardings (including dates/positions) which have been conducted in the previous ten-day period and other relevant information, as appropriate.
 - (c) Inspection vessels operating in the Regulatory Area, once the exchange of information described in (a) and (b) has taken place and means of communication established, shall maintain contact, as far as possible on a daily basis, and with due regard to radio security, in order to exchange information on boardings/sightings or other relevant information and to co-ordinate their activities.
2. Contracting Parties engaged in inspection or surveillance activities in the Regulatory Area shall undertake to prepare reports of inspection activity, based on a calendar year, outlining details of boardings, sightings and apparent infringements (including disposition).

Contracting Parties shall, where possible, exchange inspectors to develop a consistent approach to inspection and control in the Regulatory Area.

**Annex 14
Document of Identity**

INSPECTOR'S/TRAINEE'S DOCUMENT OF IDENTITY
(not smaller than 8.5 cm x 5.5 cm).

Refer to page 38 of NAFO/FC Doc.00/1

**Annex 15
Surveillance Report Form**

SURVEILLANCE REPORT

1. The forms for the Surveillance Report shall be collated in a booklet with each page having an original and two self-carbon copies (preferably coloured and preferably 1 golden rod and 1 blue).
2. Page packets are to be perforated at the top and bottom of the page for easy removal.
3. Booklets should be bound preferably with 50 copies of the surveillance report.
4. The size of every page, after removal from the packet, should be 355.5 mm (14") in length by 216 mm (8 1/2") in width.

FISHERIES COMMISSION OF THE NORTHWEST ATLANTIC FISHERIES
ORGANIZATION

SURVEILLANCE REPORT

PART I

AUTHORIZED INSPECTORS

1. Name(s) Document Identity No (s).....
.....
.....

Contracting Party

2. Identification/Call Sign of Surveillance Craft

Patrol Originating in Reg. Area at (Posn)on (Date) (time) UTC

Patrol Leaving Reg. Area at (Posn)on (Date) (time) UTC

DETAILS OF VESSEL OBSERVED

3. Contracting Party.....

4. Vessels Name and Letters and Numbers of Registration.....

5. Other Identifying Features (Type of vessel, colour of hull, superstructure, etc.)
.....
.....
.....

6. Date/Time UTC When First Identified Course & Speed

Position at Time at First I.D. NAFO Sub Div.

Lat.

Long.

Equipment used in Determining Position

7. WEATHER CONDITIONS

Wind Dir..... Sea State.....

Wind Speed..... Visibility.....

8. DETAILS OF PHOTOGRAPHS TAKEN

Date/Time	Posn.	Altitude in case of air surveillance
a.
b.
c.
d.

PART II

(to be completed by the inspector not less than 72 hours
following the observation recorded in Part I)
(NOT APPLICABLE TO NON-CONTRACTING PARTIES)

I hereby certify that to date, in respect of the fishing vessel,
information received by the authorities from the competent
authorities of the Contracting Party pursuant to paragraph
2 of Part Section of the Conservation and Enforcement Measures (Hail System),
does not correspond with the observation recorded in Part I of this report.

Authorized Inspector:

Signature:

**Annex 16
Inspection Report**

**FISHERIES COMMISSION OF THE NORTHWEST ATLANTIC FISHERIES
ORGANIZATION**

REPORT OF INSPECTION

(Inspector: Please use CAPITAL BLOCK LETTERS)

Note to master of fishing vessel

The NAFO inspector will produce his/her NAFO document of identity on boarding. He/she is then entitled to inspect and measure all fishing gear on or near the working deck and readily available for use and the catch on and/or below decks and any relevant documents. This inspection will be to check your compliance with NAFO's measures to which your Contracting Party has not objected and, notwithstanding any such objection, to inspect the logbook entries for the Regulatory Area and the catches on board. The inspector will not ask you to haul your nets; however, he/she may remain on board until the net is hauled in.

AUTHORIZED INSPECTOR(S)

1. NAME(S)..... CONTRACTING PARTY.....

2. Name and Identifying letters and/or Number of Vessel Carrying Inspector(s)
.....

INFORMATION ON VESSEL INSPECTED

3. Contracting Party and Port of Register

4. Vessel's Name and Registration Number.....

5. Master's Name.....

6. Owner's Name and Address.....
.....

7. Position as determined by inspecting vessel's master atUTC; Lat.....Long.....

a) Equipment used in determining position.....

8. Position as determined by fishing vessel's master atUTC; Lat..... Long.....

a) Equipment used in determining position.....

DATE AND TIMES THE INSPECTION COMMENCED AND FINISHED

9. Date Time arrived on board UTC-Time of DepartureUTC

GEAR ON OR NEAR THE WORKING DECK INSPECTED

10.

- 1st net 2nd net 3rd net
- Type of Net (trawl net, seine net, etc.)
- Material (chemical category, if possible)
- Single or double twine
- Net (measured wet)-on or near trawl deck
- Type of net attachments inspected
- Remarks.....

MESH MEASUREMENT - IN MILLIMETERS

11.

Codend (inclusive of lengthener(s), if any) - Samples of 20 meshes

Average Legal

Width (Mesh Size) Width Size

1st

Net

2nd

Net

3rd

Net

Chafer - Samples of meshes

1st

Net

2nd

Net

3rd

Net

Rest of Net - Samples of 20 meshes

1st

Net

2nd

Net

3rd

Net

9. Have the records of catches been retained aboard for the duration of the quota period?

YES/NO

Result of Inspection of Fish on board

13. Result of Inspection of Fish Observed in last tow (if appropriate)

TOTAL TONS ALL SPECIES TAKEN PERCENTAGE OF EACH PERCENTAGE DISCARDS.

14. Result of inspection of catches on board

Fish species with 3-Alpha Code Inspectors Estimate (tonnes)
Inspectors comments on how estimates were calculated:

15. Summary of catches from logbooks for current voyage(1)/quota period (2):

DATE OF ENTRY INTO
REGULATORY AREA DIVISION
FISH SPECIES WITH
3-ALPHA CODE
CATCH
(METRIC TONS)
HOW
PROCESSED DISCARDS

(1) "Current voyage" is defined as beginning when the vessel enters the Regulatory Area, and ending when the vessel leaves the Convention Area (which includes the ports bordering the Convention Area) for a period greater than 20 days. The current voyage shall not be considered to have ended as long as the vessel has catch on board from the Regulatory Area.

(2) Where applicable in accordance with point 6(i), para 6 of the Scheme.

Note to master of fishing vessel:

At this stage the inspection will finish unless an apparent infringement has been found. If no apparent infringement is found go to item 22. If an apparent infringement has been found the inspector will write the infringement here and sign at this point. You must countersign to show that you have been informed of the infringement. Your signature does not constitute acceptance of the apparent infringement.

16.

Nature of apparent infringement:

Signature of inspector: _____

Signature of master: _____

If an apparent infringement has been found, the inspector may:

- 1) examine and photograph the fishing vessel's gear, catch, logbooks or other relevant documents;
- 2) ask you to cease fishing if the apparent infringement consists of
 - (a) fishing in a closed area or with gear prohibited in a specific area;

(b) fishing for stocks or species after the date on which the Contracting Party for the inspected vessel has notified the Executive Secretary that vessels of that Party will cease a directed fishery for those stocks or species; and

(c) fishing in an "Others" quota without prior notification to the Executive Secretary, or more than 7 working days after the Contracting Party for the inspected vessel has been notified by the Executive Secretary that fishing under an "Others" quota for that stock or species should cease;

Before asking you to cease fishing, the inspector must immediately attempt to communicate with an inspector of your Contracting Party in the vicinity or a designated authority of your Contracting Party.

You must allow the inspector to use your radio equipment or operator for this purpose. If the inspector cannot contact an inspector of your Contracting Party or a designated authority, he/she will complete his/her inspection and leave your vessel. While he/she is on board you should not recommence fishing unless you have satisfied the inspector that you will not repeat the apparent infringement e.g. because you have changed zone or cut off the illegal gear.

COMMENTS AND OBSERVATIONS

17. Documents inspected following an apparent infringement.....

18. Comments: (In the case of a difference between the inspector's estimates of the catches on board and the related summaries of catches from the logbooks, note this difference with the percentage)

.....
.....
.....

19. Subjects of photographs taken relating to an apparent infringement

.....
.....

20. Other comments, statements and/or observations by Inspector(s)

.....
.....

21. Statements of Second Inspector or Witness

.....
.....

22. Name and Signature of Second Inspector or Witness.....

23. Signature of Inspector in charge.....

24. Statement of Master's Witness(es):

.....
.....

25. Name and Signature of Master's Witness(es):

.....
.....

26. Acknowledgement and receipt of report:

I, the undersigned, Master of the vessel....., hereby confirm that a copy of this report and second photographs taken have been delivered to me on this date. My signature does not constitute acceptance of any part of the contents of the report.

Date..... Signature.....

27. Comments and signature by the Master of vessel

.....
.....

COPY TO MASTER, ORIGINAL TO BE RETAINED BY INSPECTOR FOR REQUIRED DISTRIBUTION.

**Annex 17
Inspection Questionnaire**

1. I am an inspector under the Scheme. Here is my document of identity. I would like to inspect your/nets/other fishing gear/catch/documents.
2. I should like to see the master of this vessel.
3. Please give me your name.
4. Please cooperate with me in the examination of your catch/equipment/documents in accordance with the Commission' measures.
5. Please check your position and time now.
6. I am reporting your position as °lat.....°long atUTC. Do you agree?
7. Would you like to check your position with my instruments on board the inspection vessel?
8. Do you now agree?
9. Please show me/the documents establishing the nationality of your vessel/the registration documents/the bridge logbook/the fishing logbook(s).
10. Please write down the name and address of the owners of this vessel in the space I am indicating on the Report Form.
11. What principal species are you fishing for?
12. Are you fishing for reduction purposes?

13. I agree.
14. Yes.
15. I do not agree.
16. No.
17. Please take me to/the bridge/the working deck/the processing area/fish holds.
18. Do you use any net attachment? If so, what type? Please write it down in the space I am indicating.
19. Please switch on these lights.
20. I wish to examine that net/chafing gear.
21. Show me the other fishing gear you have on or near the fishing deck.
22. Show me your net gauge, if any.
23. Ask your men to hold that net so that I can measure it.
24. Please put that net underwater for ten minutes.
25. I have inspected.....meshes in this net.
26. Check that I have recorded accurately on the Report Form in the space I am indicating the width of the meshes I have measured.
27. I wish to inspect your catch. Have you finished sorting the fish?
28. Will you please lay out those fish?
29. I wish to estimate the proportion of regulated species in your catch.
30. I have completed an inspection of catch on board your vessel. As a result of this inspection, I have estimated your total catch as t.
31. I have completed an inspection of your log records. Your log records indicate your total catch on board is..... t.
32. I have found that there is a difference between your recorded catch and my estimate of the catch on board your vessel.
33. I shall report this difference to your Contracting Party in my inspection report.
34. Please turn to the copy of the Inspection Form in your language and supply me with the necessary information to complete it. I will indicate which sections.

35. If you do not give your cooperation as I have requested, I will report your refusal to your Contracting Party.
36. I have found the average width of the meshes I have measured in that net ismm. This appears to be below the minimum applicable mesh size, and will be reported to your Contracting Party.
37. I have found net attachments/other fishing gear/which appear to be illegal. This will be reported to your Contracting Party.
38. I shall now affix the identification mark to this piece of fishing gear which is to be preserved with the mark attached until viewed by a fisheries inspector of your Contracting Party at his demand.
39. I have found undersized fish. I shall report this to your Contracting Party.
40. I find that you are apparently fishing in this area/during a closed season/with gear not permitted/for stocks or species not permitted. This will be reported to your Contracting Party.
41. I have found a by-catch of regulated species which appears to be above the permitted amounts. I shall report this to your Contracting Party.
42. I have made copies of the following entry/entries/in this document. Please sign them to certify that they are true copies.
43. I would like to communicate with a designated authority of your Contracting Party. Please arrange for this message to be sent and for any answer to be received.
44. Do you wish to make any observations concerning this inspection including its conduct and that of the inspector(s)? If so, please do so in the space I am indicating on the Report Form on which I have set out my findings. Please sign the observations. Do you have any witnesses who wish to make observations? If so, they may do so in the space I am indicating on the Report Form.
45. I am leaving. Thank you.

**Annex 18
Inspection Pennants**

Refer to page 39 of FC doc 00/1

**Annex 19
Boarding Ladder**

CONSTRUCTION AND USE OF BOARDING LADDERS

1. The boarding ladders shall be efficient for the purpose of enabling inspectors to embark and disembark at sea safely. The boarding ladders are to be kept clean and in good order.
2. The ladder shall be secured in a position so that it is clear of any possible discharge from the ship, that each step rests firmly against the ship's side, that it is clear so far as practicable of

the finer lines of the ship and that the inspector can gain safe and convenient access to the ship.

3. The steps of the boarding ladder shall be:
 - (a) of hardwood or other material of equivalent properties, made in one piece free of knots, having an efficient non-slip surface; the four lowest steps may be made of rubber of sufficient strength and stiffness or of other suitable material of equivalent characteristics;
 - (b) not less than 480 mm long, 115 mm wide, and 25mm in depth, excluding any non-slip device;
and
 - (c) equally spaced not less than 300 mm nor more than 380 mm apart and may be secured in a manner that they will remain horizontal.
4. No boarding ladder shall have more than two replacement steps which are secured in position by a method different from that used in the original construction of the ladder and any steps so secured shall be replaced, as soon as reasonably practicable, by steps secured in position by the method used in the original construction of the ladder.
5. The side ropes of the ladder shall consist of two uncovered manila or equivalent ropes not less than 60 mm in circumference on each side; each rope shall be continuous with no joints below the top step; two man ropes properly secured to the ship and not less than 65 mm in circumference and a safety line shall be kept at hand ready for use if required.
6. Battens made of hardwood, or other material of equivalent properties, in one piece and not less than 1.80 m long, shall be provided at such intervals as will prevent the boarding ladder from twisting. The lowest batten shall be on the fifth step from the bottom of the ladder and the interval between any batten and the next shall not exceed 9 steps.
7. Means shall be provided to ensure safe and convenient passage onto or into and off the ship between the head of the pilot ladder or of any accommodation ladder or other appliance provided. Where such passage is by means of a gateway in the rails or bulwark, adequate handholds shall be provided. Where such passage is by means of a bulwark ladder, such ladder shall be securely attached to the bulwark rail or platform and two handhold stanchions shall be fitted at the point of boarding or leaving the ship not less than 0.70 m nor more than 0.80 m apart. Each stanchion shall be rigidly secured to the ships's structure at or near its base and also at a higher point, shall be not less than 40 mm in diameter and shall extend not less than 1.20 m above the stop of the bulwark.
8. Lighting shall be provided at night such that both the boarding ladder overside and also the position where the inspector boards the ship shall be adequately lit. A lifebuoy equipped with a self-igniting light shall be kept at hand ready for use. A heaving line shall be kept at hand ready for use if required.
10. Means shall be provided to enable the boarding ladder to be used on either side of the ship.
11. The rigging of the ladder and the embarkation and disembarkation of an inspector shall be supervised by a responsible officer of the ship.

12. Where on any ship constructional features such as rubbing bands would prevent the implementation of any of these provisions, special arrangements shall be made to the satisfaction of the Commission to ensure that persons are able to embark and disembark safely.

Annex 20 Boarding from Helicopter

HELICOPTER HOIST PROCEDURE

1. The captain of the helicopter shall be in charge of and shall ensure the safety of personnel who are being transferred between a vessel and the helicopter during the entire time such personnel are attached to the helicopter via the hoist cable and the lifting device.
2. The master of the vessel shall follow the procedures described below to assist the helicopter:
 - (i) Attempt to communicate by radio in a common language;
 - (ii) Alter course and speed if requested and if free to do so;
 - (iii) Maintain a steady course and speed throughout the transfer operation unless the safety of the vessel is in jeopardy;
 - (iv) Provide a visual indication of relative wind by means of a pennant or other suitable device;
 - (v) Clear the transfer area of objects which could be blown loose;
 - (vi) Shall not make radio transmission on standing wire antennae (high frequency) in the immediate vicinity of the transfer area during the transfer. If such transmissions become necessary, the helicopter shall be advised in order that the transfer could be delayed; if a guide line is lowered first, crew members should be available to man this line to assist in the transfer of the inspection party. The inspection party, other lines and wires should not be touched by the crew of the vessel until the inspection party has grounded those lines and wires on the vessel;
 - (vii) Take appropriate measures to ensure to the extent practicable that none of the lines or fittings lowered from the helicopter are attached to or permitted to foul in the vessel.
3. The helicopter displaying its inspection pennant shall communicate to the vessel the intention to conduct a boarding:
 - (i) by radio communications on 2182 KHZ, VHF-FM Channel 16 or other agreed frequencies;
 - (ii) by visual or aural indication of an appropriate signal extracted from the International Code of Signals as shown in paragraph 7;
 - (iii) by hovering over or near the intended boarding position in conjunction with hand signals, adopted from the International Code of Signals, as indicated in paragraph 4.

4. (i) Signal: Pointing movement by arm or hand
- Used by: Meaning:
- Helicopter Wish to conduct transfer or boarding in the indicated location
- (ii) Signal: Vertical motion with arm or flag, or "Thumbs-Up" indication
- Used by: Situation: Meaning:
- Either Before transfer Ready to conduct transfer;
- Vessel Before transfer Desire transfer from this position;
- Helicopter After dropping the guide line Take up the slack on the guide line;
- After taking up the slack on the guide line Pull in gently on the guide line;
- Either At any time Affirmative response.
- (iii) Signal: Horizontal motion with arm or flag, or "Thumbs-Down" indication
- Used by: Situation: Meaning:
- Vessel Before transfer Transfer not recommended from this position-recommend alternative (and point towards desired position);
- Either Before transfer Not ready to conduct transfer;
- Vessel During transfer Request you stop the transfer;
- Helicopter After dropping the guide line Ease the tension on the guide line;
- After easing the tension on the guide line Release the guide line;
- Either At any time Negative response.
5. A visual display of the symbol YU by the helicopter or the radio transmission of YANKEE UNIFORM to the fishing vessel indicates the signals in paragraph 7 are to be used for inspection communications.

K	I wish to communicate with you by	
	(extracts from IMO Table 1)	
	6...International Code Flags	
	8...Radiotelephony 2182 KHZ	
	9...VHF Radiotelephony Channel 16	
YX	I wish to communicate by radio- telephony on frequency indicated	
C	YES (affirmative)	
N	NO (negative)	November Oscar by voice or radio transmission
YU	I am going to communicate with your station by means of the International Code of Signals	
BT	Helicopter is coming to you now (or at time indicated).	

Annex 21 **NAFO Inspection Seal**

NAFO INSPECTION SEAL

The NAFO Inspection Seal shall be as follows:

Name:	LOB TAG
Mark:	"NAFO Inspection No. of six digits"
Material:	polyethylene recyclable
Color:	orange
Melt index:	6.70 ± .60 (by international standard)
Density:	.953 ± .003 (by international standard)
Breaking point (load):	min. 45 kg (t° 20°C)
Length:	28 cm
Width:	1.3 cm

A sketch of the NAFO Inspection Seal:

Refer to page 52 of NAFO FC Doc. 00/1

Annex 22 **Port Inspection Report**

Refer to page 21 of the supplement to FC Doc. 00/1

Attachments

STACTIC forms

Refer to page 79 ff in FC 00/1

Annex 3. Items Requiring Further Consideration by the Drafting Group

- Should observer related duties of the master be consolidated in the article relating to obligations of the master?
- Should provisions relating to the markings of helicopters conducting inspections be moved to an annex?
- Ref: article 13(5): The predecessor provision referred to obligations in Part I. Review is needed to ensure that a reference to Chapter I fully captures the substance of Part I.
- The drafting group did not have time to complete a detailed examination of the annexes. On a very quick review, the drafting group suggested the following items for its future consideration:
 - Annex 2: streamline headings
 - Annex 3: include a diagram of the new gauge for skate mesh
 - Annex 6: new, return some provisions to the body of the measures
 - Annex 7: new, return some provisions to the body of the measures
 - Annex 8: delete otter trawl portions
 - Annex 11: revise in light of VMS related changes made to related article
 - Annex 15: delete descriptions of reports
 - Annex 16: revise either to delete repetition of measures in the inspection form or, if the inclusion of measures in the form is a useful reference tool for inspectors, ensure that the repetition of measures is complete
 - Annex 17: delete
 - Annex 19: conduct technical review and delete as possible
 - Annex 20: conduct user review and delete as possible

Annex 4. Items Requiring Guidance from STACTIC

- Some provisions are written with reference to vessels (eg: vessels shall not) while others are written with reference to Contracting Parties (eg: Contracting parties shall ensure that vessels shall not). Further consideration is needed as to whether a more uniform drafting style in which all but the measures solely the responsibility of the Contracting Party are written with reference to vessels would be appropriate.

- The Conservation and Enforcement Measures contain some text which is more in the nature of a political statement than an operational requirement. Possible examples of these statements are the language that appears in I.F (Other Measures – No Directed Fishery for Cod in Div. 3L in the Regulatory Area), I.I (Other Measures – No Directed Fishery for Witch in Division 3L in the Regulatory Area) and the chapeau of Part VI (Program for Observers and Satellite Tracking). In keeping with their purpose, the Conservation and Enforcement Measures should not contain statements that lack an operational objective; rather, such declarations are better placed in the report of the Fisheries Commission. The Drafting Group has attempted to include only the operational language in the redrafted Conservation and Enforcement Measures. (Note that there was a difference, not fully reflected in the redrafted measures, in views of members of the drafting group as to which components of the chapeau of Part VI were substantive and which were purely political in nature.)

- The Conservation and Enforcement Measures contain a number of time-limited provisions. Those provisions which are intended to expire after a given deadline (eg: quotas) should be grouped in one section, such as the quota table. Those provisions which are time-limited but, as demonstrated by their repeated renewal by the Fisheries Commission, are more permanent in nature, should cease to have specific expiry dates. Examples of the latter type of measure are provisions on shrimp gear.

- Ref: article 2: The drafting group discussed insertion of a definition of “infringement” and considered but did not reach consensus on the following language.
 “infringement” means any activity or omission of a fishing vessel which gives clear grounds for suspecting that a violation of applicable provisions of the Conservation and Enforcement Measures has occurred and which will be noted in an inspection report in accordance with the Scheme.

Among issues discussed were:

- whether an infringement which is not documented by an inspector but rather appears elsewhere, eg: in a surveillance report or an observer report, can be termed an infringement;
- whether an infringement documented by an inspector but not yet acted upon by a flag state can be an infringement or would better be termed an “apparent infringement”; and
- whether “clear grounds” is the appropriate standard.

In the interest of clarity, the drafting group has replaced “apparent infringement” with “infringement” in the redrafted text. Depending on the outcome of discussions on this issue, it may need to be reconsidered.

- Ref: article 2: The Drafting Group queried whether additional definitions might improve the Conservation and Enforcement Measures. In particular, consideration might be given to definitions for “inspection vessel”, “commercial fishing” and “directed fishery” (see note on article 9).

- Ref: article 6(3): This provision could be moved to a footnote in the quota table.
- Ref: article 7: These closed fisheries could alternately be listed in the quota table.
- Ref: article 9: Note that there is a STACTIC proposal pending which, if adopted, will revise this article substantially. Note also that the definition of directed fishery contained in the STACTIC proposal could be placed in the general definition section or in this article. Note also that there is a link between article 9 and article 3 and that terminology (eg: “close”, “ban on fishing”) used in the two articles should be clarified and made consistent.
- Ref: article 10(5): This provision was identified as redundant by STACTIC and should be deleted. Note also that this article is the only one to use the phrase “fishing primarily”; a reference to a directed fishery would be more appropriate if the article is retained.
- Ref: article 12: Note that the restrictions could alternately be placed in the sections dealing with 3L and 3M shrimp. However, the insertion of an article on area and time closures provides a useful place for any future provisions of this nature. With respect to article 12(2), it would be useful to create a diagram of the referenced area and insert it as figure 3.
- Ref: article 14(3): As the Secretariat has calculated the number of shrimp fishing days available to each Contracting Party in accordance with article 14 and included it in the quota table, this provision could be deleted.
- Ref: article 15(5): The phrase “and the method by which any modification of engine power has been carried out and clearly explained” would not seem to be necessary and should be deleted.
- Ref: article 19(3): Consideration should be given to altering the requirement to retain records on board to “for a period of at least twelve months”.
- Ref: articles 20(4) and (5): These articles refer to reports which are not generally made or which would be better carried out under the auspices of the Scientific Council. The provisions should be deleted or replaced with more appropriate equivalents.
- Ref: article 21: If and when NAFO’s VMS supports it, these requirements would be better included in the VMS portion of the measures.
- Ref: articles 27, 35 and 36: Consideration should be given to combining the procedures to be followed concerning action taken on infringements found in inspection reports and information supplied in surveillance reports in the same article.
- Ref: articles 28(5) and (6): The predecessor provisions for these articles provided a list of tasks which inspectors could perform notwithstanding an objection to quota made by a Contracting Party pursuant to article XII of the NAFO Convention. The redraft of the measures omits these specified powers in favour of a generalized provision. Some members of the Drafting Group believed that retention of these specified powers was desirable. In 28(5) the Drafting Group also retained, essentially unchanged, the wording from the original provision. However, clarification of this wording would be useful.
- Ref: article 29(e): The provision regarding pennant flying by pair trawlers is obsolete and should be deleted.

- Ref: article 30(4): The provision relating to written statements should inspectors make comments in point 20 of the inspection report is redundant with article 20(3) and should be deleted.
- Ref: articles 31 and 32: There may be redundancy between parts of these two articles which could be removed by their combination. However, this would require some degree of substantive change.
- Ref: article 32(3): Language relating to the choice of port should be clarified.
- Ref: article 37: Members of the Drafting Group queried whether this provision had ever been used. Some members of the Drafting Group indicated that if it had never been used its deletion should be considered. It was also noted that the provision may need to be revisited in the context of any overall dispute settlement mechanism for NAFO.
- Ref: Chapter V: Some members of the Drafting Group queried whether a provision indicating that port inspections, in the same vein as at-sea inspections, should exclude measures to which a Contracting Party had objected pursuant to article XII of the NAFO Convention.
- A provision along the lines of the NEAFC article on authorization to fish could be included at the beginning of Chapter II. Draft text could read:

Authorisation to Fish

Each Contracting Party shall:

1. authorize the use of fishing vessels flying its flag for fishing activities under Article 2 only where it is able to exercise effectively its responsibilities in respect of such vessels;
2. ensure that only authorised fishing vessels flying its flag conduct fishing activities under Article 2;
3. ensure that fishing vessels flying its flag comply with applicable measures adopted under the NAFO Convention.
4. undertake to manage the number of authorised fishing vessels and their fishing effort commensurate to the fishing opportunities available to that Contracting Party in the Regulatory Area.

- Consideration should be given to referencing international standards for gear marking, such as the Convention on Conduct of Fishing Operations in the North Atlantic (signed in London on 1 June 1967).
- The Drafting Group noted that objections of Contracting Parties are currently placed in the Conservation and Enforcement Measures by way of footnotes. This practice could be continued. Alternatively, for reference, it could be useful to place a list of objections in a preface to the Conservation and Enforcement Measures.