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Northwest Atlantic Fisheries Organization



**Conservation and Enforcement Measures**



**Supplement of FC Doc. 98/1**

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NAFO Headquarters, 2 Morris Drive, Dartmouth, N. S., Canada  
Tel (902) 468-5590  
Fax (902) 468-5538  
E-mail [nafo@fox.nstn.ca](mailto:nafo@fox.nstn.ca)

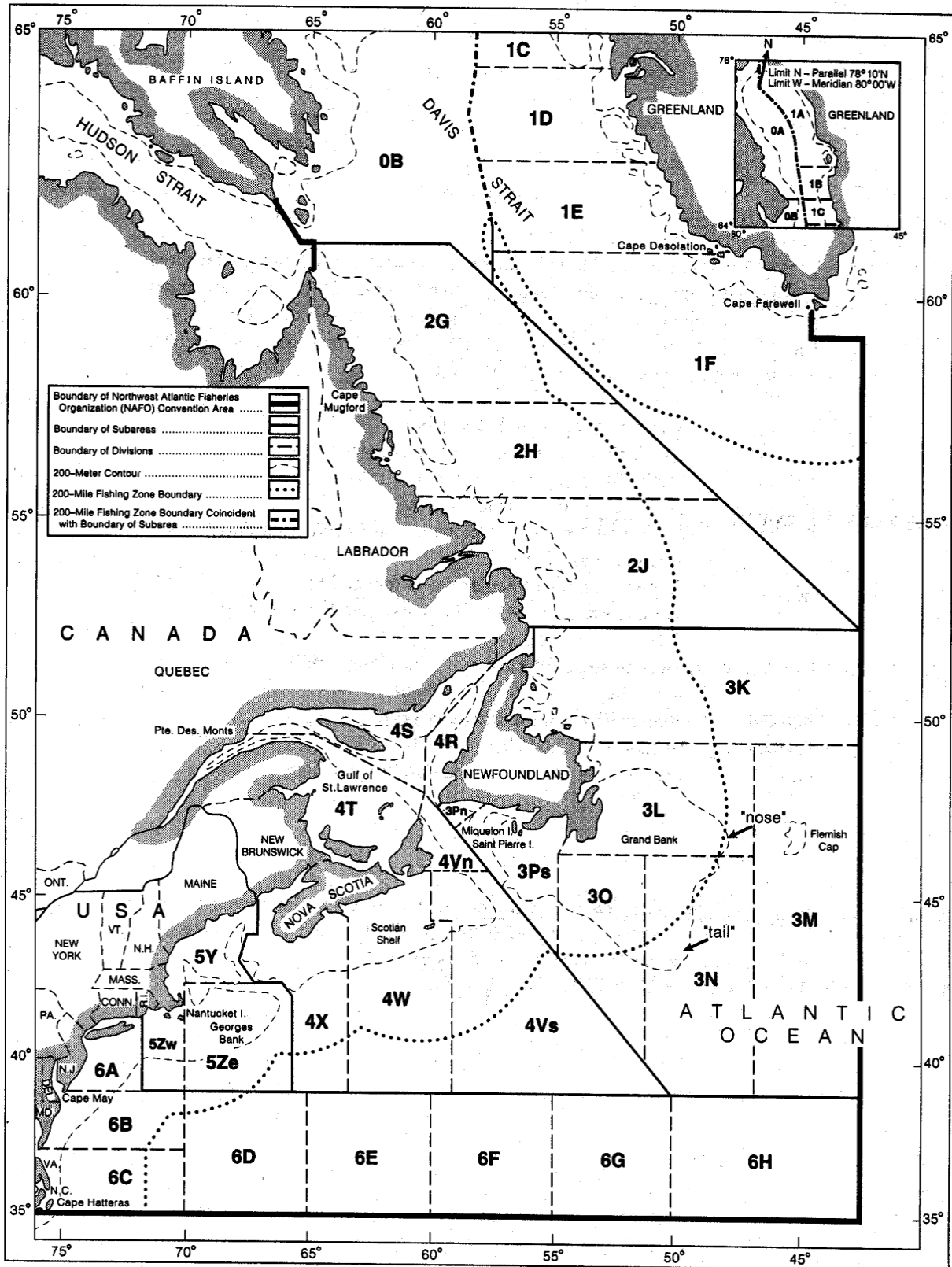
## Introduction

This publication of the NAFO Conservation and Enforcement Measures supplements the basic FC Doc. 98/1 and compiles all new/amended measures adopted by the Fisheries Commission during the 20th Annual Meeting, in Lisbon, Portugal, September 1998 (GF/98-482, 25 Sep 98). The following measures were incorporated:

- Part I.E - 3L Cod - year amended to 1999
- Part I.F - 3M Shrimp - year and conditions amended
- Part I.G - 3LNO Shrimp - year amended to 1999
- Part I.H - 3L Witch – year amended to 1999
- Part I.I - No transshipment of fish from Non-Contracting Party Vessels – new item
- Part III - Annex I- Standardized Formats for the Electronic Transmission of NAFO Hails and Satellite Tracking Reports – new item
- Part IV.19 - Sightings and Reporting of Non-Contracting Party Vessels in the Regulatory Area – new item
- Part IV - Annex VIII – Surveillance Report - amended
- Part V - Schedule I - Quota Table, 1999
- Part VI - Program for Observers and Satellite Tracking

**Special Note:** The basic document of the NAFO Conservation and Enforcement Measures during 1999 will be FC Doc. 98/1, supplemented and amended by the measures as listed above.

The Convention Area to which the Convention on Future Multilateral Cooperation in the Northwest Atlantic applies



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**PART I - MANAGEMENT**

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

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

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

Noting the current moratorium that is being applied by Canada to the fishing of this stock,

Noting the available scientific advice, directed fisheries for this cod in Division 3L in the Regulatory Area shall not be permitted in 1999.

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

1. Vessels fishing for shrimps in Division 3M in 1999 shall use nets with a minimum mesh size of 40 mm.

2. Vessels fishing for shrimp in Division 3M in 1999 shall use sorting grids or grates maximum spacing between the bars of 22 mm.

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

4. a) Each Contracting Party shall limit in 1999 the number of vessels fishing for shrimp in Div. 3M to the number that have participated in this fishery in the period from 1 January 1993 to 31 August 1995.

b) Each Contracting Party shall, in 1999, limit the number of fishing days by its vessels fishing for shrimp in Div. 3M to 90% of the maximum number of fishing days observed for their vessels in one of the years 1993, 1994 or 1995 (until 31 August 1995). However, for Contracting Parties with a track record in the period from 1 January 1993 to 31 August 1995, a minimum level of 400 fishing days is permitted.

c) Contracting Parties with no track record in the shrimp fishery in the period from 1 January 1993 to 31 August 1995 may, in 1999, fish for shrimp with one vessel in 100 fishing days.

d) Each Contracting Party shall communicate the number of fishing days to the Executive Secretary before 1 November 1998 that are available to that Contracting Party for 1999. The number of days shall be counted from the hail reports of vessels fishing for shrimp in Div. 3M and shall include the days of entry and exit from the Regulatory Area. In the case where vessels fishing for shrimp and other species on the same trip the number of days shall be counted from the day the vessel entered the shrimp fishery to the day the vessel ceased that fishery.

The Executive Secretary shall scrutinize the communications from the Contracting Parties, work with the relevant Contracting Parties if discrepancies are revealed, and by 1 December 1998 notify the number of vessels and fishing days applicable to all Contracting Parties.

e) Vessels fishing for 3M shrimp may fish this stock in 1999 in Division 3M and in the area defined by the coordinates in footnote 1.

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

g) Each Contracting Party shall in 1999 closely monitor its vessels fishing for shrimp and close the fishery when the number of fishing days available to that Party is exhausted.

The number of fishing days shall be counted from the hail reports of vessel fishing for shrimp and shall include the days of entry or moves into Div. 3M and the area defined in footnote 1 and the days of moves or exit from Div. 3M and the area defined in footnote 1.

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

i) Fishing days are not transferable between Contracting Parties.

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<sup>1</sup>

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

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Objections recorded by the NAFO Secretariat (under Article XII of the NAFO Convention):

- *Iceland is not bound by provisions I.F.4 pursuant to its objection (GF/98-642 of 28 Dec 98)*

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

All Contracting Parties shall ensure that their vessels shall not conduct a directed fishery for shrimp in Divisions 3LNO in 1999.

H. Other Measures – No Directed Fishery for Witch in Division 3L in the Regulatory Area

Noting the available scientific advice, and

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

Directed fisheries for Witch in Division 3L in the Regulatory shall not be permitted in 1999.

I. Other Measures – No Transshipment of Fish from Non-Contracting Party Vessels

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 NAFO Regulatory Area.

**PART III – ANNEX I – HAIL SYSTEM MESSAGE FORMAT**

Example 1

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

Amendment of the NAFO Conservation and Enforcement Measures, FC Doc. 98/1; Part III, Annex 1:

EXPLANATORY NOTES

- a) The formats herein conform with the requirements for the NAFO Hails System as set out in FC Document 97/1 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 the EU, Iceland and Norway.
- c) The variable length record is preferred over a fixed length record as some Contracting Parties collect more information from their vessels than is required by NAFO, and are forwarding the entire record to NAFO. The format is conducive to extraction of the required data fields by the receiving parties.
- d) The following convention is used in this paper: //FIELD NAME/field value//, where the field name is shown in uppercase, followed by the character “/”, followed by the field value in lowercase. Fields are separated by “//”.
- e) Each record begins with the string //SR// to indicate the Start of the Record.
- f) Each record ends with the string //ER// to indicate the End of the Record.
- g) Character fields (CHAR) shall conform with the ISO 8859.1 character set standard.
- h) Country codes used for addressee (AD) and sender (FR) shall conform with the ISO 3166 (1993) standard. E/F 7.3 states that user-assigned country codes shall start with the character “X”, therefore it is proposed that the code XNS be used to designate the NAFO Secretariat, the addressee for hail messages.

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

1.1 ENTRY HAIL

//SR			Start Record
//FR/from	(ISO-3)		
//AD/addressee	XNS		
//SQ/sequence number	NUM(4)		
//NA/name of vessel	CHAR(40)		
//RC/call sign	CHAR(8)		
//XR/external identification letters and numbers	CHAR(14)		
//DA/date	CHAR(8)	YYYYMMDD	
//TI/time	NUM(4)	HHMM	UTC
//LA/latitude	CHAR(5)	NDDMM	
//LO/longitude	CHAR(6)	WDDMM	
//TM/indication of the message code	CHAR(3)	ENT	
//DI/NAFO Division into which the vessel is about to enter.	CHAR(2)		
//HO/total round weight of fish by species (3 alpha codes) on board 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. //HO/species weight species weight species weight//			
	SPECIES	CHAR(3)	FAO Codes
	WEIGHT	NUM(7)	
//MA/name of the Master	CHAR(30)		
//DS/directed species (target species)	CHAR(3)	FAO Codes	
Allow several species to be entered, with the values separated by spaces, e.g. //DS/species species species//			
//ER//	-		End Record



Example 1  
(continued)

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

1.2 MOVE HAIL

NOTE that FC Document 96/1 Part III states that vessels equipped with devices which enable the automatic transmission of their positions are exempt from the Hail requirements set out in Part III.

//SR	-	Start Record	
//FR/from	(ISO-3)		
//AD/addressee	XNS		
//SQ/sequence number	NUM(4)		
//NA/name of vessel	CHAR(40)		
//RC/call sign	CHAR(8)		
//XR/external identification letters and numbers	CHAR(14)		
//DA/date	CHAR(8)	YYYYMMDD	
//TI/time	NUM(4)	HHMM	UTC
//LA/latitude	CHAR(5)	NDDMM	
//LO/longitude	CHAR(6)	WDDMM	
//TM/indication of the message code	CHAR(3)	MOV	
//DI/NAFO Division into which the vessel is about to enter.	CHAR(2)		
//MA/name of the Master	CHAR(30)		
//DS/directed species (target species)	CHAR(3)	FAO Codes	
Allow several fields to be entered, with the fields separated by spaces, e.g. //DS/species species species//			
//ER//	-	End Record	

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

1.3 TRANSZONAL HAIL (between NAFO Divisions )

NOTE that FC Document 96/1 Part III states that vessels equipped with devices which enable the automatic transmission of their positions are exempt from the Hail requirements set out in Part III.

//SR	-	Start Record	
//FR/from	(ISO-3)		
//AD/addressee	XNS		
//SQ/sequence number	NUM(4)		
//NA/name of vessel	CHAR(40)		
//RC/call sign	CHAR(8)		
//XR/external identification letters and numbers	CHAR(14)		
//DA/date	CHAR(8)	YYYYMMDD	
//TI/time	NUM(4)	HHMM	UTC
//LA/latitude	CHAR(5)	NDDMM	
//LO/longitude	CHAR(6)	WDDMM	
//TM/indication of the message code	CHAR(3)	ZON	
//MA/name of the Master	CHAR(30)		
//DS/directed species (target species)	CHAR(3)	FAO Codes	
Allow several fields to be entered, with the fields separated by spaces, e.g. //DS/species species species//			
//ER//	-	End Record	

Example 1  
(continued)

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

1.4 EXIT HAIL

//SR	-	Start Record
//FR/from	(ISO-3)	
//AD/addressee	XNS	
//SQ/sequence number	NUM(4)	
//NA/name of vessel	CHAR(40)	
//RC/call sign	CHAR(8)	
//XR/external identification letters and numbers	CHAR(14)	
//DA/date	CHAR(8)	YYYYMMDD
//TI/time	NUM(4)	HHMM UTC
//LA/latitude	CHAR(5)	NDDMM
//LO/longitude	CHAR(6)	WDDMM
//TM/indication of the message code	CHAR(3)	EXI
//DI/NAFO Division from which the vessel is about to leave.	CHAR(2)	
//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//		
	SPECIES	CHAR(3)      FAO Codes
	WEIGHT	NUM(7)
//MA/name of the Master	CHAR(30)	
//ER//	-	End Record

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

1.5 TRANSHIPMENT HAIL

//SR	-	Start Record	
//FR/from	(ISO-3)		
//AD/addressee	XNS		
//SQ/sequence number	NUM(4)		
//NA/name of vessel	CHAR(40)		
//RC/call sign	CHAR(8)		
//XR/external identification letters and numbers	CHAR(14)		
//DA/date	CHAR(8)	YYYYMMDD	
//TI/time	NUM(4)	HHMM	UTC
//LA/latitude	CHAR(5)	NDDMM	
//LO/longitude	CHAR(6)	WDDMM	
//TM/indication of the message code	CHAR(3)	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//			
	SPECIES	CHAR(3)	FAO Codes
	WEIGHT	NUM(7)	
//MA/name of the Master	CHAR(30)		
//ER//	-	End Record	

Example 2

Amendment of the NAFO Conservation and Enforcement Measures, FC Doc. 98/1; Part III, Annex 1

## Standardized File Format for Satellite Tracking Reports at the NAFO Secretariat

## Definition of mandatory data elements

Data Element	Field Code	Maximum Width	Mandatory/ Optional	Definition/Remarks
Start of Record	SR		M	
From	FR	3	M	Alpha-3 ISO country code
Addressee	AD	4	M	XNW
Sequence Number	SQ	4	M	
Name	NA	40	M	Vessel detail
International radio call sign	RC	8	M	Vessel detail
External identification	XR	14	M	Vessel detail
Flag State	FS	3	M	Alpha-3 ISO country code
Date	DA	8	M	YYYYMMDD
Time	TI	4	M	HHMM
Latitude	LA	5	M	NDDMM
Longitude	LO	6	M	WDDMM
Type of Message	TM	3	M	ENT/EXI/MOV
NAFO Division*	DI	2	M	NAFO division in which the vessel has entered
End Record	ER		M	

\*to be left blank if the report is an "exit"

## Definition of optional data elements

Data Element	Field Code	Maximum Width	Mandatory/ Optional	Definition/Remarks
Name of the Master	MA	30	O	
Target Species	DS	3	O	FAO codes; allowance for multiple main species

Note: Character set: ISO 8859.1. A data transmission is structured in the following manner: - a double slash ("/") and a field code indicate the start of a data element; - a slash ("/") separates the field code and the data. Optional data elements have to be inserted between "Start of record" and "End of record".

Example of messages based on the standardized file format

```
//SR//FR/NOR//AD/XNS//SQ/345//RC/TFLN//XR/VI-5943//NA/VESSEL NAME//
FS/RUS//DA/YYYYMMDD//TI/0400//TM/MOV//DI/3M//LA/N4721//LO/W04640//ER//
Optional elements: //MA/MASTERS NAME//DS/DIRECTED SPECIES//
```

NAFO Regulations: PART III.E AND VI.B. OF THE CONSERVATION AND ENFORCEMENT MEASURES APPLIES

**PART IV – SCHEME OF JOINT INTERNATIONAL INSPECTION AND SURVEILLANCE**

19. (i) Contracting Parties shall report to the NAFO Secretariat all sightings, made by inspectors, of Non-Contracting Party fishing vessels engaged in fishing activities (i.e. fishing, fish processing operations, the transshipment of fish or fish products, and any other activity in preparation for or related to fishing) in the NAFO Regulatory Area. Such reports shall include all information derived from the inspector's observations concerning the Non-Contracting Party fishing vessel's activities and be made using Part I of the surveillance report provided in Part IV, Annex VIII.
- (ii) The inspector shall attempt to inform the Non-Contracting Party fishing vessel that it has been sighted engaging in fishing activities, that a surveillance report has been completed, that there may be consequences for the vessel, and that this information will be distributed to all NAFO Contracting Parties and to the flag-State of the vessel.
- (iii) In the event that the Non-Contracting Party vessel, which has been sighted and reported as engaged in fishing activities in the NAFO Regulatory Area, is boarded by inspectors, the findings of the inspectors shall 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 to the flag-State of the boarded vessel as soon as possible.

**PART IV - ANNEX VIII- 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/Non-Contracting Party/Flag State.....

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: .....



## PART V - SCHEDULE I - APPENDIX II

QUOTA TABLE. Total allowable catches (TACs) and quotas (metric tons) for 1999 of particular stocks in Subareas 3 and 4 of the NAFO Convention Area. The values listed include quantities to be taken both inside and outside the 200-mile fishing zone, where applicable.

Contracting Party	Cod		Redfish		American plaice		Yellowtail		Witch		Capelin		G. halibut		Squid ( <i>Illex</i> ) <sup>2,3</sup>	
	Div. 3M	Div. 3NO*	Div. 3M	Div. 3LN*	Div. 3M*	Div. 3LNO*	Div. 3LNO	Div. 3NO*	Div. 3NO*	Div. 3NO*	Div. 3MNO*	Div. 3LMNO	Subareas 3+4	Subareas 3+4	Subareas 3+4	Subareas 3+4
1. Canada	0	0	500	0	0	0	5850 <sup>7</sup>	0	0	0	3 667	N.S. <sup>4</sup>	N.S. <sup>4</sup>			
2. Cuba	0	-	1750	0	-	-	-	-	-	0	-	-	1 125			
3. Denmark (Faroe Islands and Greenland)	0	-	69	-	-	-	-	-	-	-	-	-	-			
4. European Union	0	0	3 100	0	0	0	120 <sup>7</sup>	-	0	0	13 530	N.S. <sup>4</sup>	N.S. <sup>4</sup>			
5. France (St. Pierre et Miquelon)	-	-	69	-	-	-	-	-	-	-	-	-	1 000			
6. Iceland	-	-	-	-	-	-	-	-	-	-	-	-	-			
7. Japan	-	-	400	-	-	-	-	-	-	0	2 506	1 125	1 000			
8. Korea	-	-	69	-	-	-	-	-	-	0	-	-	500			
9. Norway	0	-	-	-	-	-	-	-	-	0	-	-	-			
10. Poland	0	-	-	-	-	-	-	-	-	0	-	-	-			
11. Estonia	-	-	-	-	-	-	-	-	-	-	-	-	-			
12. Latvia	0	0	13 850 <sup>1</sup>	0	0	0	-	0	0	0	3 117	2 500 <sup>1</sup>	2 500 <sup>1</sup>			
13. Lithuania	-	-	-	-	-	-	-	-	-	-	-	-	-			
14. Russia	-	-	-	-	-	-	-	-	-	-	-	-	-			
15. United States of America	0	0	69	0	0	0	30 <sup>7</sup>	0	0	0	1 624 <sup>5</sup>	1 000	1 750			
16. Others	-	-	124	0	0	0	-	0	0	0	-	-	-			
Total Allowable Catch	*	*	13 000 <sup>6</sup>	*	*	*	6 000 <sup>8</sup>	*	*	*	24 444	75 000	75 000			

<sup>1</sup> Quotas to be fished by vessels from Estonia, Latvia, Lithuania and the Russian Federation. The provisions of Part I, Section A.3 of the NAFO Conservation and Enforcement Measures shall apply.

<sup>2</sup> The opening date for the Squid (*Illex*) fishery is 1 July.

<sup>3</sup> Any quota listed for squid may be increased by a transfer from any "coastal state" as defined in Article 1, paragraph 3 of the NAFO Convention, provided that the TAC for squid is not exceeded. Transfers made to Contracting Parties conducting fisheries for squid in the Regulatory Area shall be reported to the Executive Secretary, and the report shall be made as promptly as possible.

<sup>4</sup> Not specified because the allocation to these Contracting Parties are as yet undetermined, although their sum shall not exceed the difference between the total of allocations to other Contracting Parties and the TAC.

<sup>5</sup> Of which no more than 40% (650 t) may be fished before 1 May 1999 and no more than 80% (1299 t) may be fished before 1 October 1999.

<sup>6</sup> Each Contracting Party shall notify the Executive Secretary bi-weekly of catches taken by its vessels from this stock. The Executive Secretary shall notify without delay all Contracting Parties of the date on which, for this stock, accumulated reported catch taken by vessels of the Contracting Parties is estimated to equal 100 percent of the TAC for that stock. At that date each Contracting Party, to which a quota has been allocated or which vessels are engaged in fishing under the "Others" quota, shall prohibit fishing by its vessels for that stock.

<sup>7</sup> Contracting Parties shall inform the NAFO Executive Secretary before 1 December 1998 of the measures to be taken to meet the advice of the NAFO Scientific Council.

<sup>8</sup> The provisions of Part I, Section A.5(b) of NAFO Conservation and Enforcement Measures shall apply.

\*No directed fishing - The provisions of part I, Section A.5(b) of NAFO Conservation and Enforcement Measures shall apply.

Objections recorded by the NAFO Secretariat:

- Latvia is not bound by provisions of items 11,12,13,14 and 16 (Greenland halibut) pursuant to its objection (GF/98-643, 30 Dec 98).
- Lithuania is not bound by provisions of items 11,12,13,14, footnote 1 and 16 (Greenland halibut) pursuant to its objection (GF/98-643, 30 Dec 98).
- Russia is not bound by provisions of items 11,12,13,14 and footnote 1 pursuant to its objection (GF/98-643, 30 Dec 98).

## **PART VI - PROGRAM FOR OBSERVERS AND SATELLITE TRACKING**

In order to improve and maintain compliance with the Conservation and Enforcement Measures for their vessels fishing in the Regulatory Area, Contracting Parties agree to a program of 100 percent observer coverage and to require all vessels fishing in the Regulatory Area to be equipped with satellite tracking devices as soon as possible and not later than January 1, 2001. The elements of this program are subject to review and revision, as appropriate, for application in 2001 and subsequent years.

### **A. Observers**

1. Each Contracting Party shall require all its vessels fishing in the Regulatory Area to accept observers on the basis of the following:
  - a) each Contracting Party shall have the primary responsibility to obtain, for placement on its vessels, independent and impartial observers;
  - b) 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 a);
  - c) no vessel shall be required to carry more than one observer pursuant to this Program at any time.
2. Each Contracting Party shall provide to the Executive Secretary a list of the observers they will be placing on vessels in the Regulatory Area.
3. 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;
    - iv) verify entries made to the logbooks (species composition and quantities, round and processed weight and hail reports).
  - b) collect catch and effort data on a set-by-set basis. 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;
  - d) within 30 days following completion of an assignment on a vessel, provide a report to the Contracting Party of the vessel and to the Executive Secretary, who shall make the report, available to any Contracting Party that requests it. Copies of reports sent to other Contracting Parties shall not include location of catch in latitude and longitude as required under 3 b), but will include daily totals of catch by species and division.

4. The observer shall monitor the functioning of, and report upon any interference with, the satellite 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 apparent infringement of the Conservation and Enforcement Measures is identified by an observer, the observer shall, within 24 hours, report it to a NAFO inspection vessel using an established code, which shall report it to the Executive Secretary.
6. Contracting Parties shall take all necessary measures to ensure that observers are able to carry out their duties. Subject to any other arrangements between the relevant Contracting Parties, the salary of an observer shall be covered by the sending Contracting Party.
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 cooperation 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.

B. Satellite Tracking

1. Each Contracting Party whose vessels fish, or plan to fish, in the Regulatory Area, shall:
  - a) require as soon as possible and not later than January 1, 2001 of its vessels fishing in the Regulatory Area to be equipped with an autonomous system able to transmit automatically satellite signals to a land-based receiving station permitting a continuous tracking of the position of the vessel by the Contracting Party of the vessel;
  - b) install at least one receiving station associated with their satellite tracking system;
  - c) transmit to the Executive Secretary, on a real time basis, messages of movement between NAFO divisions (as per the requirements of the Hail System outlined in Part III. E of these Measures) for its vessels equipped with satellite devices. The Executive Secretary shall, in turn, transmit such information to Contracting Parties with an inspection vessel or aircraft in the Convention Area;
  - d) cooperate with other Contracting Parties which have a NAFO inspection vessel or aircraft in the Convention Area, in order to exchange information on a real-time basis on the geographical distribution of fishing vessels equipped with satellite devices and, on specific request, information related to the identification of a vessel.
2. Subject to any other arrangements between Contracting Parties, each Contracting Party shall pay all costs associated with the satellite tracking system.