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Northwest Atlantic Fisheries Organization

Serial No. N4017 NAFO/FC Doc. 98/10

20th ANNUAL MEETING – SEPTEMBER 1998

Amendment of the NAFO Conservation and Enforcement Measures (FC Doc. 98/1), Part III, Annex I to add Example 1 (6 pages) and Example 2 (1 page)

Standardized Formats for the Electronic Transmission of NAFO Hails and Satellite Tracking Reports from Contracting Parties to the NAFO Secretariat

This document comprises the hail message and satellite tracking file/formats developed and recommended to the Fisheries Commission by the STACTIC Working Group, which met in Dartmouth, N.S., Canada, 28-30 October 1997.

The Fisheries Commission adopted the formats during its Annual Meeting in Lisbon, Portugal, 18 September 1998.

The document consists of the following elements:

Example 1

- Explanatory notes on formats
- Entry hail (report)
- Move hail
- Transzonal hail
- Exit hail
- Transhipment hail

Example 2

- File format for satellite tracking report

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 I:

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.

Example 1
(continued)

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)	WDDDMM	
//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)	WDDDMM	
//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

Example 1
(continued)

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)	WDDDMM	
//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)	WDDDMM	
//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

Example 1
(continued)

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)	WDDDMM	
//TM/indication of the message code	CHAR(3)	TRA	

//KG/total round weight by species (3 alpha codes) to be transshipped 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

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	WDDDMM
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