



UN/CEFACT

Mini-Conference on sustainable fishery management through information management (FLUX)

**Palais des Nations Geneva
27 April 2016**

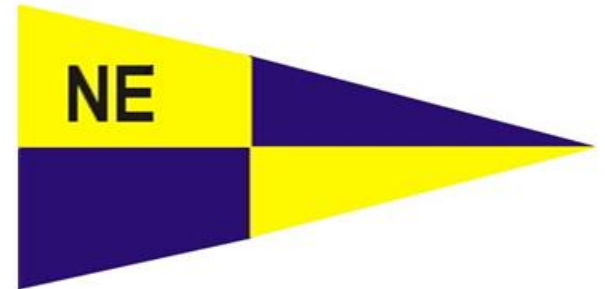
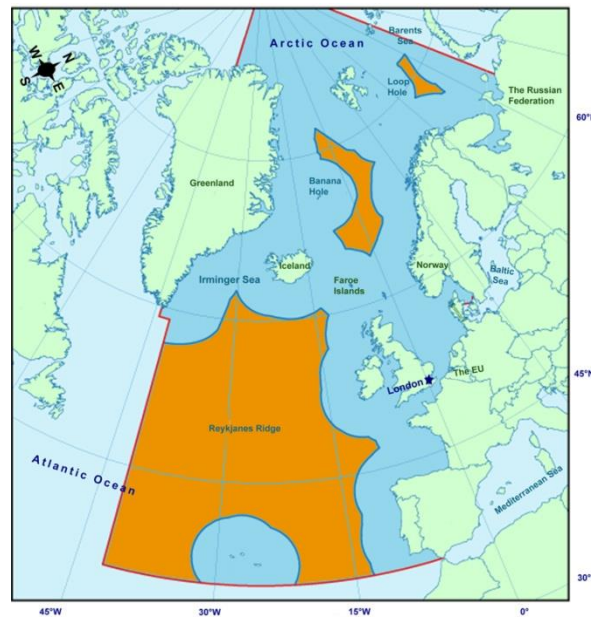
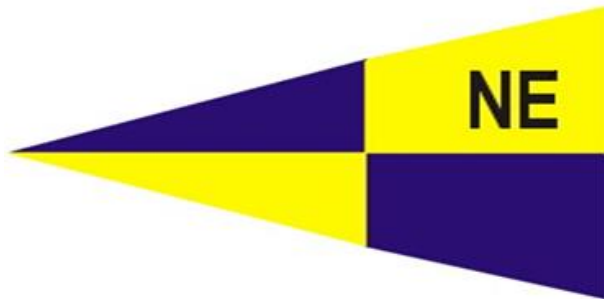
**Commander s.g. Gylfi Geirsson(rtd)
Icelandic Coast Guard**



The North East Atlantic fisheries Commission



NEAFC

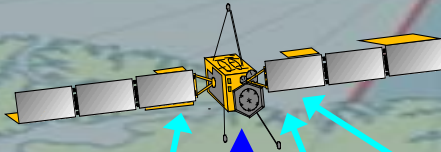


This briefing will cover the following



- Basic description of the NEAFC system
 - Control measures
 - Monitoring of fisheries
 - Inspections at sea
 - The standard NEAFC is using today
- Problems encountered
 - Common errors
 - The possible consequences
- What standard for communication may be used in the future
- The benefits of a standard
- The importance of a standard

NE



LES



Patrol aircraft



National FMC VMS & VTI



Inspection vessel



Fishing vessel

Reports and Messages



- **Control Measures**

- Notification NOT
- Authorisation AUT
- Limitation LIM
- Suspension SUS
- Withdrawal WIT

- **Monitoring of Fisheries**

- Catch on Entry COE
- Catch CAT
- Transhipment TRA
- Catch on Exit COX
- Port of Landing POR

- **VMS**

- Entry ENT
- Position POS
- Exit EXI
- Manual MAN

- **Surveillance**

- Surveillance Entry SEN
- Surveillance Exit SEX
- Observations OBS

Port State Control (Measures)



- **Port State Control for foreign fishing vessels established in 2007**
 - Two types of Port State Control notifications
 - PSC 1
 - For vessels landing or transshipping own catches
 - PSC 2
 - For vessels landing or transshipping catches from other vessels
 - » One PSC 2 for each donor vessel
 - Mandatory Flag State verification of the information provided
 - If verification is negative, the Port State authorities are obliged to deny the use of ports
 - Has now been aligned with the FAO Port State Measures Agreement
 - Fully electronic on the NEAFC PSC website

What is NEAFC using



- The NEAFC has been using a standardised format since the year 2000 (NAFO is using the same)
 - The **North Atlantic Format** (NAF)
 - A slash delimited format
 - Is computer readable
 - Can also be read as a text
 - Characters are to be in accordance with ISO 8859.1
 - Each data transmission is structured as follows:
 - double slash (//) and the characters SR indicate the start of a message;
 - a double slash (//) and field code indicate the start of a data element;
 - a single slash (/) separates the field code and the data;
 - pairs of data are separated by space;
 - the characters “ER” and a double slash (“//”) indicate the end of a record.
- Failure to follow the format may cause messages and reports to be rejected;
 - The sender has however the opportunity to react to return error messages indicating what the error might be
 - If the sender does not react to return messages the fishing vessel may become non-compliant
 - May have serious consequences

- **The North Atlantic Format (NAF)**

- Used for communication between fishing vessels, Flag State Fisheries Monitoring Centres and the NEAFC Secretariat

**//SR//AD/XNE//FR/ISL//RD/20110525//RT/1035//RN/1500//SQ/123//TM/CAT
//RC/TFXX //CA/HAD2300 REB 45000//DF/1//DA/20110525//TI/1030//ER//**

- Start Record
- Address.....XNE (NEAFC)
- From.....Iceland
- Record Date.....25th May 2011
- Record Time.....1035 UTC
- Record Number.....1500
- Sequence Number.....123
- Type of Message.....Catch Report
- Radio Call Sign.....TFXX
- Catch.....2.300 kg Haddock
45.000 kg Redfish
- Days Fished.....1
- Date.....25th May 2011
- Time.....1030 UTC
- End Record



What can be the problems



- **There are several factors that may create problems**
 - Data value or size out of range
 - The date format is sometimes not as expected
 - NEAFC expects the date and time format to be;
 - » YYYYMMDD
 - » HHMM
 - The sender of the information gets creative and either includes data elements in the message that are
 - Not found in the Scheme, or
 - Creates data into the element that is not recognised
 - Mandatory data missing
 - There are several data elements in each report that are mandatory

Errors



- Communication
 - Message is unreadable
 - Data value or size out of range
 - Mandatory data missing
 - This report is a duplicate; attempt to re-send a report previously rejected
 - Unauthorised data source
 - Sequence error
 - Date / Time in the future
 - This report is a duplicate; attempt to re-send a report previously accepted
- Notification of fishing vessels
 - Attempt to re-Notify a vessel
 - Vessel is not Notified
 - Species not AUT, or LIM or SUS

Errors (cont.)



- Reports from fishing vessels
 - Catch prior to Catch on Entry
 - Transshipment prior to Catch on Entry
 - Catch on Exit prior to Catch on Entry
 - No Position received (CAT, TRA, COX)
 - Position without Catch on Entry
- Surveillance information
 - Surveillance Exit prior to Surveillance Entry
 - Observation without Surveillance Entry
 - Inspectors or craft not notified

Return Error Numbers



Subject/Annex	Error Numbers			Error cause
	Rejected (NAK) Follow-up action required	Accepted and Stored (ACK) Follow-up action required	Accepted and Stored (ACK) with warning	
Communication	101			Message is unreadable
	102			Data value or size out of range
	104			Mandatory data missing
	105			This report is a duplicate; attempt to re-send a report previously rejected
	106			Unauthorised data source
			150	Sequence error
			151	Date / Time in the future
			155	This report is a duplicate; attempt to re-send a report previously accepted
Annex II			250	Attempt to re-Notify a vessel
		251		Vessel is not Notified
		252		Species not AUT, or LIM or SUS
Annex VIII		301		Catch prior to Catch on Entry
		302		Transshipment prior to Catch on Entry
		303		Catch on Exit prior to Catch on Entry
		304		No Position received (CAT, TRA, COX)
			350	Position without Catch on Entry
Annex X	401			Surveillance Exit prior to Surveillance Entry
		450		Observation without Surveillance Entry
		451		Inspectors or craft not notified

What may the consequences be



- **Rejected messages may cause;**
 - Vessels being reported as non compliant
 - May become subject for the inspection services
 - May be boarded for inspections more frequently
 - May experience difficulties landing catches
 - When landing in foreign port the Port State Measures are applied
 - May be subject for legal proceedings and sanctions
 - Requirements in the NEAFC Scheme of Control and Enforcement
 - » May be fined
 - » Fishing Licence may be suspended

What will be used in the future



- **NEAFC is at the moment establishing a fully Electronic Reporting System (ERS)**
 - Required information from fishing vessels are generated from Electronic Logbooks on-board the vessels
 - Transmitted from the fishing vessel to its Flag State FMC
 - Forwarded from the Flag State FMC to the NEAFC Secretariat in London
 - Forwarded from the NEAFC Secretariat to the FMCs of the Contracting Parties that are having an active inspection presence in the NEAFC Regulatory Area

UN/CEFACT P1000



- **Will NEAFC use the new UN/CEFACT standard ?**
 - An „Ad Hock“ Working Group on ERS „AHWGERS“ is now investigating the feasibility to use the UN/CEFACT P1000 standard in communication between systems
 - Catch and activity reports
 - COE – CAT – TRA – COX – POR
 - VMS information
 - ENT – POS – EXI – MAN
 - If a new standard will be adopted it may also include other reports and messages
 - Notifications, authorisations etc.
 - Surveillance Information

The benefits of a standard



- **If information are standardised**
 - Can be imported into databases
 - May be a common database for several parties
 - May be a single database
 - Can be exchanged between systems
 - However only if using the same standard
 - A universal standard opens for data exchange between different systems
 - Fishing vessels to FMC
 - FMC to RFMO
 - RFMO to other relevant RFMO
 - » Interest to compare information given on exit from one RFMO area and information given on entry into another RFMO area
 - RFMO to FAO
 - » Global record and IUU lists
 - RFMO to science organisations like ICES

Benefits (cont.)



- Using a standard can help secure that the information required are submitted
 - Quality control
 - To maximise the benefits it is necessary to incorporate quality control systems
 - Quality control can be on each end
 - » The integrity of the message being checked before transmitted
 - » The consistency of the content being checked at the receiving end
 - Automatic transmission of ACK / NAK with relevant error codes
 - Automatic handling of ACK / NAK received with error codes

The importance of a standard



- **Increasingly important that fisheries related reports and messages are in a standardised format**
 - Strengthened measures
 - Some special measures of NEAFC contain very strict requirements for correct submission of reports
 - Failure may lead to an automatic and immediate suspension of authorisation to fish
 - The FAO Port State Measures Agreement
 - Port State evaluation before vessels are allowed use of ports
 - » Compliance issues evaluated
 - » Lack of information may cause delays or even refusal of use of ports
 - Risk based management for inspections
 - » Is the vessel compliant
 - » What is the compliance history of the vessel

Thank you for the attention

