



Council of the
European Union

**Brussels, 16 October 2019
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COVER NOTE

From: Secretary-General of the European Commission,
signed by Mr Jordi AYET PUIGARNAU, Director

date of receipt: 15 October 2019

To: Mr Jeppe TRANHOLM-MIKKELSEN, Secretary-General of the Council of
the European Union

No. Cion doc.: C(2019) 7290 final - ANNEX

Subject: ANNEX to the Commission Delegated Regulation supplementing
Regulation (EU) 2019/833 of the European Parliament and of the Council
laying down the conservation and enforcement measures applicable in the
Regulatory Area of the Northwest Atlantic Fisheries Organisation

Delegations will find attached document C(2019) 7290 final - ANNEX.

Encl.: C(2019) 7290 final - ANNEX



Brussels, 15.10.2019
C(2019) 7290 final

ANNEX

ANNEX

to the

Commission Delegated Regulation

supplementing Regulation (EU) 2019/833 of the European Parliament and of the Council laying down the conservation and enforcement measures applicable in the Regulatory Area of the Northwest Atlantic Fisheries Organisation

ANNEX

1. TABLE 4 OF THE NAFO CONSERVATION AND ENFORCEMENT MEASURES (“CEM”), AS REFERRED TO IN ARTICLE 3(17) AND ARTICLE 17 OF REGULATION (EU) 2019/833

Boundary Points Delineating the Eastern Side of the Footprint

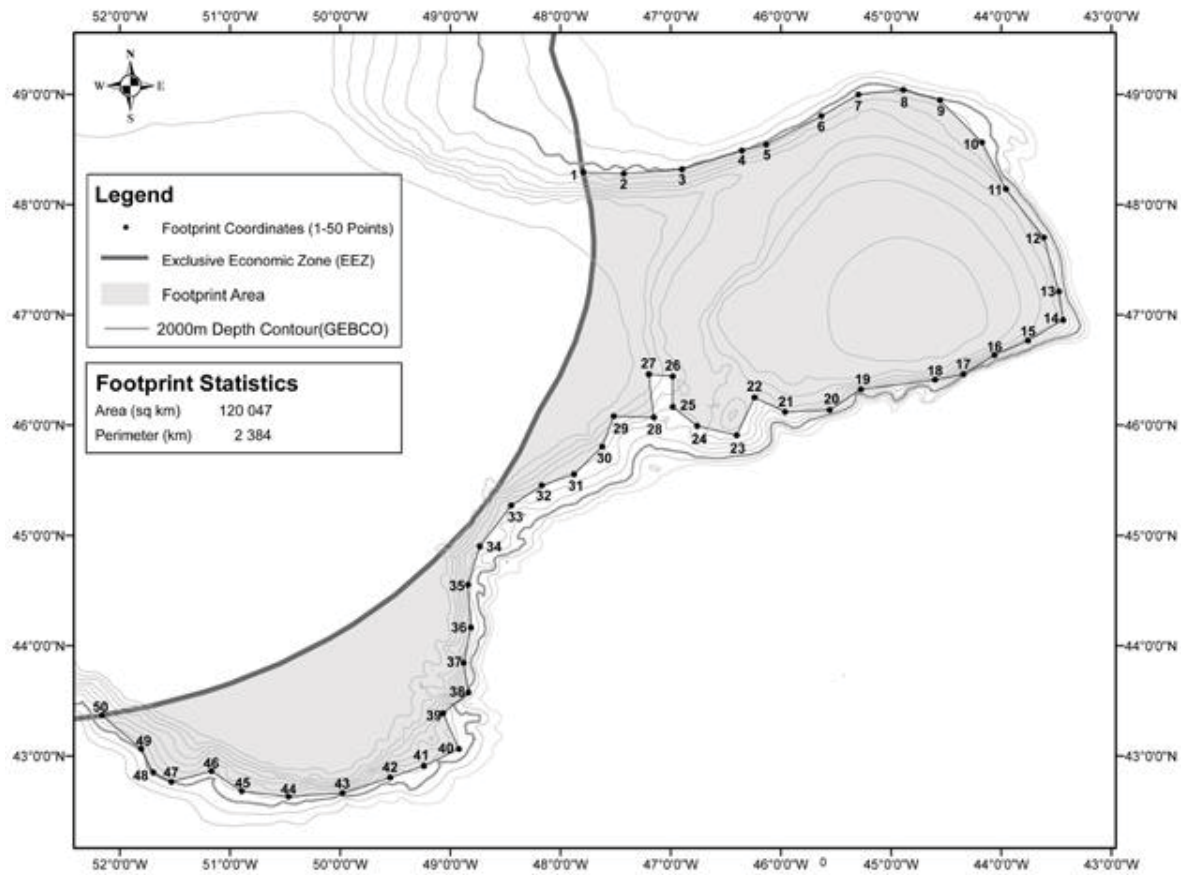
Coordinate No.	Latitude	Longitude	Coordinate No.	Latitude	Longitude
1	48°17'39"N	EEZ boundary ¹	26	46°26'32"N	46°58'53"W
2	48°16'51"N	47°25'37"W	27	46°27'40"N	47°12'01"W
3	48°19'15"N	46°53'48"W	28	46°04'15"N	47°09'10"W
4	48°29'21"N	46°21'17"W	29	46°04'53"N	47°31'01"W
5	48°32'43"N	46°08'04"W	30	45°48'17"N	47°37'16"W
6	48°48'10"N	45°37'59"W	31	45°33'14"N	47°52'41"W
7	48°59'54"N	45°17'46"W	32	45°27'14"N	48°10'15"W
8	49°02'20"N	44°53'17"W	33	45°16'17"N	48°26'50"W
9	48°56'46"N	44°33'18"W	34	44°54'01"N	48°43'58"W
10	48°33'53"N	44°10'25"W	35	44°33'10"N	48°50'25"W
11	48°08'29"N	43°57'28"W	36	44°09'57"N	48°48'49"W
12	47°42'00"N	43°36'44"W	37	43°50'44"N	48°52'49"W
13	47°12'44"N	43°28'36"W	38	43°34'34"N	48°50'12"W
14	46°57'14"N	43°26'15"W	39	43°23'13"N	49°03'57"W
15	46°46'02"N	43°45'27"W	40	43°03'48"N	48°55'23"W
16	46°38'10"N	44°03'37"W	41	42°54'42"N	49°14'26"W
17	46°27'43"N	44°20'38"W	42	42°48'18"N	49°32'51"W
18	46°24'41"N	44°36'01"W	43	42°39'49"N	49°58'46"W
19	46°19'28"N	45°16'34"W	44	42°37'54"N	50°28'04"W
20	46°08'16"N	45°33'27"W	45	42°40'57"N	50°53'36"W
21	46°07'13"N	45°57'44"W	46	42°51'48"N	51°10'09"W
22	46°15'06"N	46°14'21"W	47	42°45'59"N	51°31'58"W
23	45°54'33"N	46°24'03"W	48	42°51'06"N	51°41'50"W
24	45°59'36"N	46°45'33"W	49	43°03'56"N	51°48'21"W
25	46°09'58"N	46°58'53"W	50	43°22'12"N	EEZ boundary ²

1 approximately 47°47'45"W.

2 approximately 52°09'46"W.

2. **FIGURE 2 OF THE CEM, AS REFERRED TO IN ARTICLE 3(17) AND ARTICLE 17 OF REGULATION (EU) 2019/833**

NAFO Regulatory Area footprint map (shaded)



Legend:

- Footprint Coordinates (1-50 Points)
- Exclusive Economic Zone (EEZ)
- Footprint Area
- 2000m Depth Contour (GEBCO)

Footprint Statistics:

- Area (sq km) 120 047
- Perimeter (km) 2 384

3. PART VI OF ANNEX I.E TO THE CEM, AS REFERRED TO IN ARTICLE 3(21), ARTICLE 21(2) AND ARTICLE 27(11)(A)(I) OF REGULATION (EU) 2019/833

List of VME Indicator Species

Benthic Invertebrate VME Indicator Species			
Common name of taxonomic group	Known Taxon	Family	Phylum
Large-sized sponges (SPO)	<i>Iophon piceum</i> (WJP)	Acarinidae	Porifera
	<i>Stelletta normani</i>	Ancorinidae	
	<i>Stelletta</i> sp. (WSX)	Ancorinidae	
	<i>Stryphnus ponderosus</i>	Ancorinidae	
	<i>Axinella</i> sp.	Axinellidae	
	<i>Phakellia</i> sp.	Axinellidae	
	<i>Esperiopsis villosa</i> (ZEW)	Esperiopsidae	
	<i>Geodia barretti</i>	Geodiidae	
	<i>Geodia macandrewii</i>	Geodiidae	
	<i>Geodia phlegraei</i>	Geodiidae	
	<i>Mycale (Mycale) lingua</i> (YHL)	Mycalidae	
	<i>Thenia muricata</i>	Pachastrellidae	
	<i>Polymastia</i> spp. (ZPY)	Polymastiidae	
	<i>Weberella bursa</i>	Polymastiidae	
	<i>Weberella</i> sp. (ZWB)	Polymastiidae	
	<i>Asconema foliatum</i> (ZBA)	Rossellidae	
	<i>Craniella cranium</i>	Tetillidae	
Stony corals (CSS) (known seamount species may not occur in abundance in the NRA)	<i>Lophelia pertusa</i> (LWS)	Caryophylliidae	Cnidaria
	<i>Solenosmilia variabilis</i> (RZT)	Caryophylliidae	
	<i>Enallopsammia rostrata</i> (FEY)	Dendrophylliidae	
	<i>Madrepora oculata</i> (MVI)	Oculinidae	
Small gorgonian corals (GGW)	<i>Anthothela grandiflora</i> (WAG)	Anthothelidae	Cnidaria
	<i>Chrysogorgia</i> sp. (FHX)	Chrysogorgiidae	
	<i>Radicipes gracilis</i> (CZN)	Chrysogorgiidae	
	<i>Metallogorgia melanotrichos</i>	Chrysogorgiidae	
	<i>Acanella arbuscula</i>	Isididae	
	<i>Acanella eburnea</i>	Isididae	
	<i>Swiftia</i> sp.	Plexauridae	
<i>Narella laxa</i>	Primnoidae		
Large gorgonian corals (GGW)	<i>Acanthogorgia armata</i> (AZC)	Acanthogorgiidae	Cnidaria
	<i>Iridogorgia</i> sp.	Chrysogorgiidae	
	<i>Corallium bathyrubrum</i>	Coralliidae	
	<i>Corallium bayeri</i>	Coralliidae	
	<i>Keratoisis ornata</i> (KRY)	Isididae	
	<i>Keratoisis</i> sp.	Isididae	
	<i>Lepidisis</i> sp. (QFX)	Isididae	
	<i>Paragorgia arborea</i> (BFU)	Paragorgiidae	
	<i>Paragorgia johnsoni</i> (BFV)	Paragorgiidae	
	<i>Paramuricea grandis</i>	Plexauridae	
	<i>Paramuricea placomus</i>	Plexauridae	
	<i>Paramuricea</i> spp. (PZL)	Plexauridae	

<i>Placogorgia</i> sp.	Plexauridae
<i>Placogorgia</i> <i>terceira</i>	Plexauridae
<i>Calyptrophora</i> sp.	Primnoidae
<i>Parastenella atlantica</i>	Primnoidae
<i>Primnoa resedaeformis</i> (QOE)	Primnoidae
<i>Thouarella grasshoffi</i>	Primnoidae

Sea pens (NTW)	<i>Anthoptilum grandiflorum</i> <i>Funiculina quadrangularis</i> (FQJ) <i>Halipterus</i> cf. <i>christii</i> <i>Halipterus finmarchica</i> (HFM) <i>Halipterus</i> sp. (ZHX) <i>Kophobelemnion stelliferum</i> (KVF) <i>Pennatula aculeata</i> (QAC) <i>Pennatula grandis</i> <i>Pennatula</i> sp. <i>Distichoptilum gracile</i> (WDG) <i>Protoptilum</i> sp. <i>Umbellula lindahli</i> <i>Virgularia</i> cf. <i>mirabilis</i>	Anthoptilidae Funiculinidae Halipteridae Halipteridae Halipteridae Kophobelemnidae Pennatulidae Pennatulidae Pennatulidae Protoptilidae Protoptilidae Umbellulidae Virgulariidae	Cnidaria
Tube-dwelling anemones	<i>Pachycerianthus borealis</i> (WQB)	Cerianthidae	Cnidaria
Erect bryozoans (BZN)	<i>Eucratea loricata</i> (WEL)	Eucrateidae	Bryozoa
Sea lilies (Crinoids) (CWD)	<i>Trichometra cubensis</i> <i>Conocrinus lofotensis</i> (WCF) <i>Gephyrocrinus grimaldii</i>	Antedonidae Bourgueticrinidae Hyocrinidae	Echinodermata
Sea squirts (SSX)	<i>Boltenia ovifera</i> (WBO) <i>Halocynthia aurantium</i>	Pyuridae Pyuridae	Chordata

4. **PART VII OF ANNEX I.E TO THE CEM, AS REFERRED TO IN ARTICLE 3(29) OF REGULATION (EU) 2019/833**

List of Physical VME Indicator Elements

Physical VME indicator elements	
Seamounts	Fogo Seamounts (Div. 3O, 4Vs)
	Newfoundland Seamounts (Div. 3MN)
	Corner Rise Seamounts (Div. 6GH)
	New England Seamounts (Div. 6EF)
Canyons	Shelf-indenting canyon; Tail of the Grand Bank (Div. 3N)
	Canyons with head > 400 m depth; South of Flemish Cap and Tail of the Grand Bank (Div. 3MN)
	Canyons with heads > 200 m depth; Tail of the Grand Bank (Div. 3O)
Knolls	Orphan Knoll (Div. 3K)
	Beothuk Knoll (Div. 3LMN)
Southeast Shoal	Tail of the Grand Bank Spawning grounds (Div. 3N)
Steep flanks > 6.4°	South and Southeast of Flemish Cap. (Div. 3LM)

5. **FORMAT PRESCRIBED IN ANNEX II.C TO THE CEM, AS REFERRED TO IN ARTICLE 4(2)(A) OF REGULATION (EU) 2019/833**

Vessel Notification and Authorization

(1) Format for register of vessels

Data Element	Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO Secretariat
From	FR	M	Message detail; ISO-3 code of the transmitting Member State
Record Number	RN	M	Message detail; message serial number in current year
Record Date	RD	M	Message detail; date of transmission
Record Time	RT	M	Message detail; time of transmission
Type of Message	TM	M	Message detail; message type, "NOT" as Notification of vessels that may conduct fishing activities in NAFO RA
Vessel Name	NA	M	Name of the vessel
Radio Call Sign	RC	M	International radio call sign of the vessel
Flag State	FS	M	State where the vessel is registered
Internal Reference Number	IR	O ¹	Unique Member State vessel number as ISO-3 flag State code followed by number
External Registration Number	XR	M	The side number of the vessel
Vessel IMO Number	IM	M	IMO number
Port Name	PO	M	Port of registration or home port
Vessel Owner	VO	M ²	Registered owner and address
Vessel Charterer	VC	M ²	Responsible for using the vessel
Vessel Type	TP	M	FAO vessel code (Annex II.I)
Vessel Gear	GE	O	FAO statistical classification of fishing gear (Annex II.J)
Vessel Tonnage measurement method tonnage	VT	M	Vessel tonnage capacity in pairs as needed "OC" = "OSLO" Convention 1947, "LC" "London" Convention ICTM-69 Total capacity in metric tons
Vessel length measurement method length	VL	M	Length in meters in pairs as needed "OA" = overall; length in meters
Vessel Power measurement method power	VP	M	Engine power in pairs as needed in "KW" PE = propulsion engine AE= Auxiliary summary engines Total installed engine power in vessel measured in "KW"
End of record	ER	M	System detail; indicates end of the record

1 Mandatory when used as a single identification in other messages.

2 Whichever one is appropriate.

(2) Format for withdrawal of vessels from the register

Data Element	Code	Mandatory/ Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO Secretariat
From	FR	M	Message detail; ISO-3 code of the transmitting Member State
Record Number	RN	M	Message detail; message serial number in current year
Record Date	RD	M	Message detail; date of transmission
Record Time	RT	M	Message detail; time of transmission
Type of Message	TM	M	Message detail; message type, "WIT" as Withdrawal of notified vessels
Vessel Name	NA	M	Name of the vessel
Radio Call Sign	RC	M	International radio call sign of the vessel
Internal Reference Number	IR	O	Unique Member State vessel number as ISO-3 flag State code followed by number, if exists
External Registration Number	XR	M	The side number of the vessel
Vessel IMO Number	IM	M	IMO number
Start Date	SD	M	The first date as from which the withdrawal takes affect
End of record	ER	M	System detail; indicates end of the record

(3) Format for authorization to conduct fishing activities

Data Element	Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO Secretariat
From	FR	M	Message detail; ISO-3 code of the transmitting Member State
Record Number	RN	M	Message detail; message serial number in current year
Record Date	RD	M	Message detail; date of transmission
Record Time	RT	M	Message detail; time of transmission
Type of Message	TM	M	Message detail; message type, "AUT" as Authorization of vessels to conduct fishing activities in the NAFO RA
Vessel Name	NA	M	Name of the vessel
Radio Call Sign	RC	M	International radio call sign of the vessel
Internal reference Number	IR	O	Unique Member State vessel number as ISO-3 flag State code followed by number, if exists
External registration Number	XR	M	The side number of the vessel
Vessel IMO Number	IM	M	IMO number
Start Date	SD	M	License detail; date as from which the Authorization takes effect
End date	ED	O	License detail: Date on which the authorization go to the end. Maximum time validity is 12 months.
Targeted species and Area	TA	M ³	License detail; species and area allowed for directed fishery. Regulated species of Annex I.A or I.B of the CEM must refer to the stock specification. For unregulated species use Sub Area or division or "ANY". Allow for several pairs of fields. e.g. //TA/GHL 3LMNO COD 3M RED 3LN RED 3M HER ANY//
End of record	ER	M	System detail; indicates end of the record

³ For transport vessels the TA field is optional.

(4) Format to suspend the authorization to conduct fishing activities

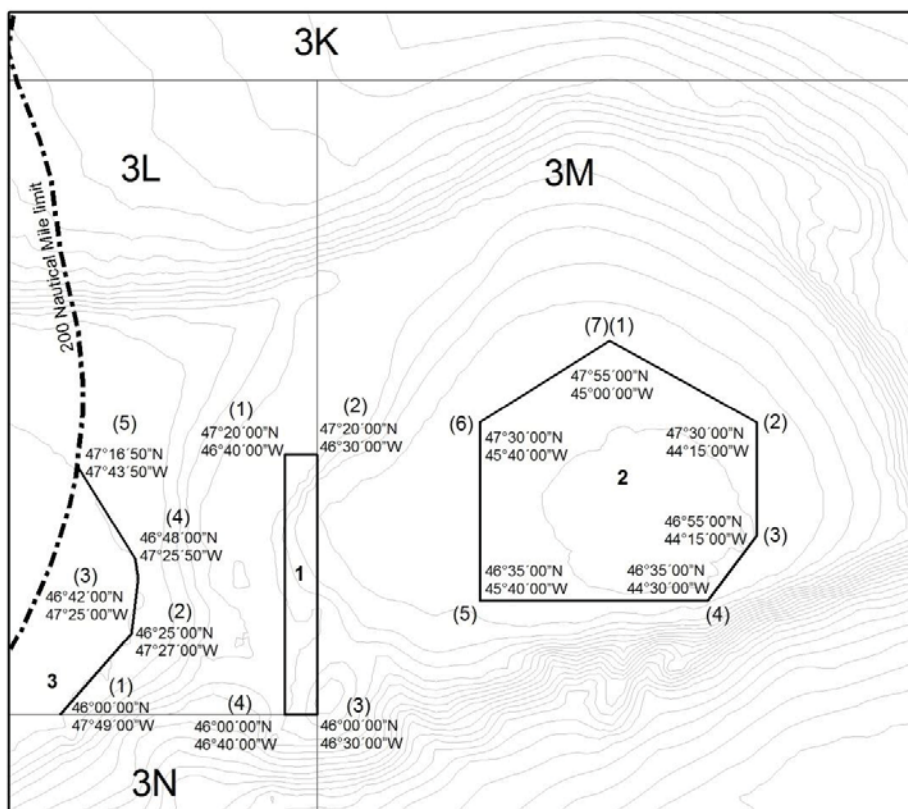
Data Element	Code	Mandatory/ Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO Secretariat
From	FR	M	Message detail; ISO-3 code of the transmitting Member State
Record Number	RN	M	Message detail; message serial number in current year
Record Date	RD	M	Message detail; date of transmission
Record Time	RT	M	Message detail; time of transmission
Type of Message	TM	M	Message detail; message type, "SUS" as Suspension of authorized vessels
Vessel Name	NA	M	Name of the vessel
Radio Call Sign	RC	M	International radio call sign of the vessel
Internal Reference Number	IR	O	Unique Member State vessel number as ISO-3 flag State code followed by number, if exists
External Registration Number	XR	M	The side number of the vessel
Vessel IMO Number	IM	M	IMO number
Start Date	SD	M	License detail; date as from which the Suspension takes effect
End of record	ER	M	System detail; indicates end of the record

6. TABLE 1 AND FIGURE 1(1) OF THE CEM, AS REFERRED TO IN ARTICLE 9(1) OF REGULATION (EU) 2019/833

Boundary points delineating the portion of Division 3L that is included in Division 3M for the management of shrimp

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

3L 200 meter depth restriction line, portion of 3L considered 3M, and 3M closed area



Legend

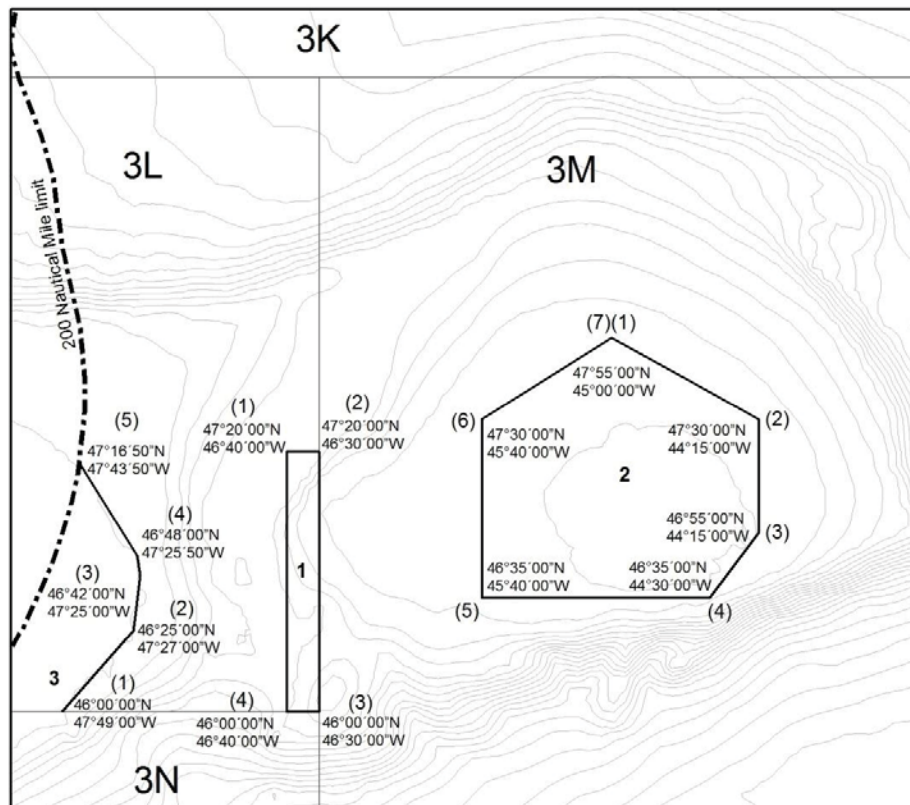
– 200 Nautical Mile limit

7. TABLE 2 AND FIGURE 1(2) OF THE CEM, AS REFERRED TO IN ARTICLE 9(4) OF REGULATION (EU) 2019/833

Boundary points delineating the shrimp closure area

Coordinate No.	Latitude	Longitude
1 (same as no. 7)	47°55'0 N	45°00'0 W
2	47°30'0 N	44°15'0 W
3	46°55'0 N	44°15'0 W
4	46°35'0 N	44°30'0 W
5	46°35'0 N	45°40'0 W
6	47°30'0 N	45°40'0 W
7 (same as no. 1)	47°55'0 N	45°00'0 W

3L 200 meter depth restriction line, portion of 3L considered 3M, and 3M closed area



Legend:

EN

EN

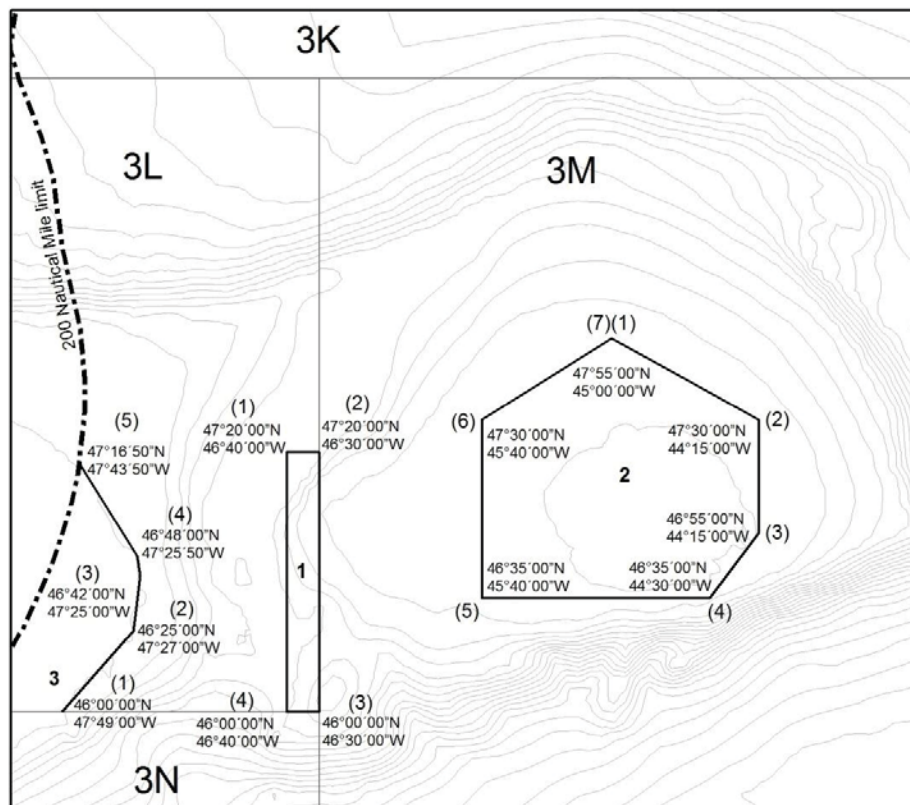
– 200 Nautical Mile limit

8. TABLE 3 AND FIGURE 1(3) OF THE CEM, AS REFERRED TO IN ARTICLE 9(5) OF REGULATION (EU) 2019/833

Boundary points delineating 200 m bathymetric curve

Coordinate No.	Latitude	Longitude
1	46°00'00" N	47°49'00" W
2	46°25'00" N	47°27'00" W
3	46°42'00" N	47°25'00" W
4	46°48'00" N	47°25'50" W
5	47°16'50" N	47°43'50" W

3L 200 meter depth restriction line, portion of 3L considered 3M, and 3M closed area



Legend:

– 200 Nautical Mile limit

9. **FORMAT PRESCRIBED IN ANNEX IV.C OF THE CEM, AS REFERRED TO IN ARTICLE 10(1)(E), ARTICLE 27(3)(C) AND ARTICLE 39(16) OF REGULATION (EU) 2019/833**

Report on port State control inspection (PSC-3)

(please use black ink)

A. INSPECTION REFERENCE.					Inspection report number:			
Landing	Yes	No	Transhipment	Yes	No	Other reason for port entry		
Port State					Port of landing or transhipment			
Vessel name					Flag State		IMO Number ¹	International Radio call sign
Landing/transhipment Start Date					Landing/transhipment Start Time (UTC)			
Landing/transhipment End Date					Landing/transhipment End Time (UTC)			
Vessel master's name:		Vessel master's nationality:		Vessel's owner/operator:		Certificate of Registry ID:		
VMS:		Port of registry:		Fishing master's name:		Fishing master's nationality:		
Vessel's beneficial owner ² :		Vessel's agent:		Vessel Type:				
Last port of call:				Date:				
B. INSPECTION DETAILS								
Name of donor vessel ³		IMO Number ¹		Radio call sign		Flag State		
B1. CATCH RECORDED IN THE LOGBOOK								
Species ⁴		Area of catch		Declared live weight kg		Conversion factor used		

- 1 Fishing vessels not assigned an IMO number shall provide their external registration number.
 2 If known and if different from vessel's owner.
 3 In case where a vessel has engaged in transshipment operations, a separate form shall be used for each donor vessel.
 4 FAO Species Codes – NEAFC Annex V - NAFO Annex I.C.
 5 Product presentations – NEAFC Appendix 1 to Annex IV – NAFO Annex II.K.

B2. FISH LANDED OR TRANSHIPPED*

* In case where a vessel has engaged in transshipment operations a separate form shall be used for each donor vessel.

Species ⁴	Product ⁵	Area of catch	Product weight landed in kg	Conversion factor	Equivalent live weight kg	Diff (kg) between live weight declared in the logbook and the live weight landed	Diff (%) between live weight declared in the logbook and the live weight landed	Diff (kg) between Product weight landed and PSC 1/2	Diff (%) between Product weight landed and PSC 1/2

Relevant transshipment authorization:

B3. INFORMATION ABOUT LANDINGS AUTHORIZED WITHOUT CONFIRMATION FROM THE FLAG STATE

Ref. NEAFC art. 23.2/NAFO art. 43.7

Name of Storage:	
Name of Competent Authorities:	
Deadline for receiving Confirmation:	

B4. FISH RETAINED ON BOARD

Species ⁴	Product ⁵	Area of catch	Product weight in kg	Conversion factor	Live weight kg	Diff. (kg) between product weight on board and PSC 1/2	Diff. (%) between product weight on board and PSC 1/2

C. RESULTS OF INSPECTION

C1. GENERAL

Inspection Start Date:		Inspection Start Time (UTC):	
Inspection End Date:		Inspection End Time (UTC):	

Status in other RFMO areas where fishing activities have been undertaken, including any IUU vessel listing

RFMO	Vessel identifier	Flag State status	Vessel on authorized vessel list	Vessel on IUU vessel list

Observations:

4 FAO Species Codes – NEAFC Annex V - NAFO Annex I.C.

5 Product presentations – NEAFC Appendix 1 to Annex IV – NAFO Annex II.K.

C2. GEAR INSPECTION IN PORT				
A. General data				
Number of gear inspected			Date gear inspection	
Has the vessel been cited?	Yes		No	If yes, complete the full “verification of inspection in port form. If no, complete the form with the exception of the NAFO seal details
B. Otter Trawl details				
NAFO Seal number		Is seal undamaged?	Yes	No
Gear type				
Attachments				
Grate Bar Spacing (mm).				
Mesh type				
Average mesh sizes (mm)				
Trawl part				
Wings				
Body				
Lengthening Piece				
Codend				
D. OBSERVATIONS BY THE MASTER:				
<p>I,the undersigned, Master of the vesselhereby confirm that a copy of this report have been delivered to me on this date. My signature does not constitute acceptance of any part of the contents of this report, except my own observations, if any.</p> <p>Signature: _____ Date : _____</p>				
E. INFRINGEMENTS AND FOLLOW-UP				
E.1 NAFO				
E.1 At-Sea Inspection				
Infringements resulting from Inspections inside NAFO R.A.				
Inspection Party	Date of inspection	Division	NAFO CEM infringement legal reference	
E.1 B Port Inspection Infringements results				
(a) - Confirmation of Infringements found at-sea inspection				
NAFO CEM infringement legal reference			National Infringement legal reference	

(b) - Infringements found at-sea inspection and not possible to be confirmed during the Port Inspection.		
Comments :		
(c) - Additional infringements found during the Port Inspection		
NAFO CEM infringement legal reference	National Infringement legal reference	
E2. NEAFC INFRIGEMENT NOTED		
Article	NEAFC provision(s) violated and summary of pertinent facts	
Inspector's observations:		
Action taken:		
Inspecting authority/agency:		
Inspectors Name	Inspectors signature	Date and place
F. DISTRIBUTION		
Copy to flag State	Copy to NEAFC Secretary	Copy to NAFO Executive Secretary

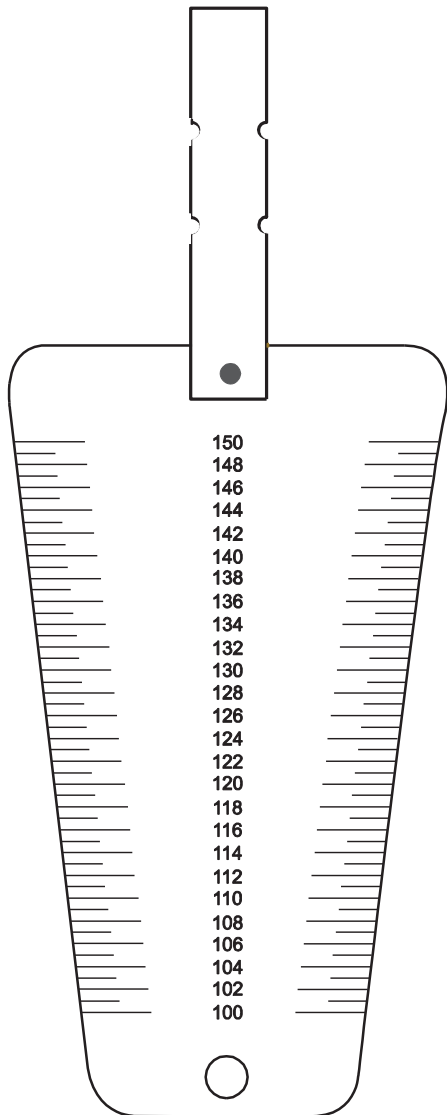
10. **ANNEX III.A TO THE CEM, AS REFERRED TO IN ARTICLE 13(1) OF REGULATION (EU) 2019/833**

Mesh Measurements and Gauges

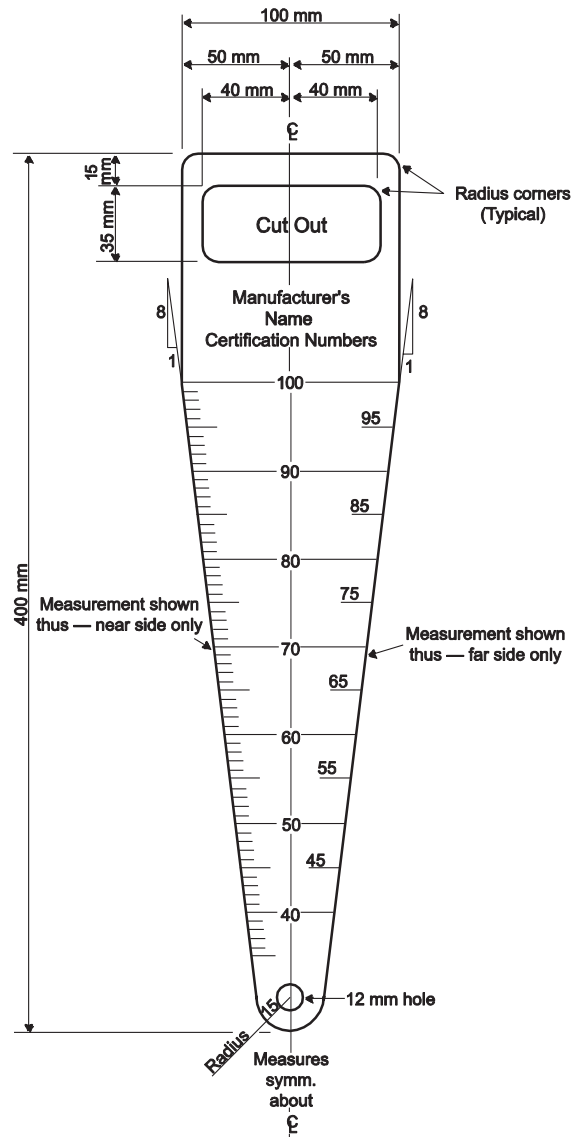
- (1) Description of mesh gauges
 - (a) A mesh gauge to be used for determining mesh sizes shall be 2 mm thick, flat, of durable material and non-deformable. It shall be designed either as a number of parallel-edged sides connected by tapering edges with a taper of 1:8 on each side or only tapering edges with the taper defined above. The mesh gauge shall have a hole at the narrowest extremity.
 - (b) The face of the mesh gauge shall be inscribed with the width in millimetres both on the parallel-sided section, if this design is used and on the tapering section. In the case of the latter, the width shall be inscribed for every interval of 1mm and the width shall be indicated at regular intervals.
- (2) Use of the mesh gauge
 - (a) The net shall be kept stretched so that the meshes are stretched in the direction of the long diagonal.
 - (b) The tapered end of the mesh gauge described in point 1 shall be inserted into the mesh opening in a direction perpendicular to the netting along the long axis of the net.
 - (c) The gauge shall be inserted into the mesh opening either manually or using a weight until the mesh gauge is stopped by the resistance of the mesh at the tapering edges.
- (3) Selection of meshes for measuring
 - (a) The meshes to be measured shall form a series of 20 consecutive meshes selected in the direction of the long axis of the net.
 - (b) Meshes positioned less than 50 cm from lacings, ropes and codlines shall not be measured. This distance shall be measured perpendicular to the lacings, the ropes or the codline with the net stretched in the direction of measuring. Any mesh that has been mended or torn or to which attachments to the net are fixed shall not be measured.
 - (c) By way of derogation from 3a), the meshes to be measured need not be consecutive if this is prevented by the application of 3b).
 - (d) Nets shall be measured only when wet and non-frozen.
- (4) Sizes of individual meshes
 - (a) The size of a mesh shall be equal to the width of the gauge inscribed at the point where the gauge is stopped when used in accordance with point 2.

- (b) The sides of a mesh shall be accepted as being of the same length if, when measured, the two knots that keep the mesh together in the lateral direction appear to be off the centre of the mesh gauging device.
- (5) Determination of the mesh size of a net
- (a) The mesh size of a net shall be expressed in mm as the average of the sizes of the total number of meshes selected and measured according to points 3 and 4. The average value shall be rounded up to the next full number of millimetres.
- (b) The total number of meshes to be measured is specified in point 6.
- (6) Mesh gauging procedure
- (a) Only meshes which have 4 sides, equally long, of the same material, and 4 permanent joints or knots are permitted.
- (b) Mesh size shall be calculated by averaging:
- in respect of the codend of a net, including any lengthener(s), the measurements, in millimetres, 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
 - in respect of any part of a net, the measurements, in millimetres, of any 20 consecutive meshes that are at least 10 meshes from the lacings.

Example of Large Size Gauge



Example of Small Size Gauge



Legend:

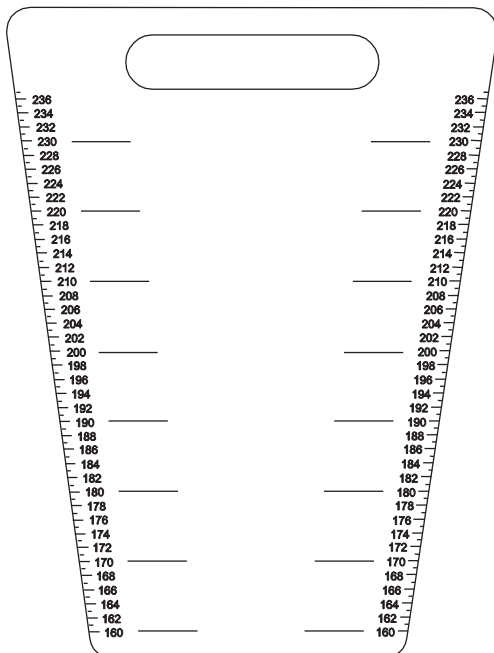
Example of Large Size Gauge

Example of Small Size Gauge

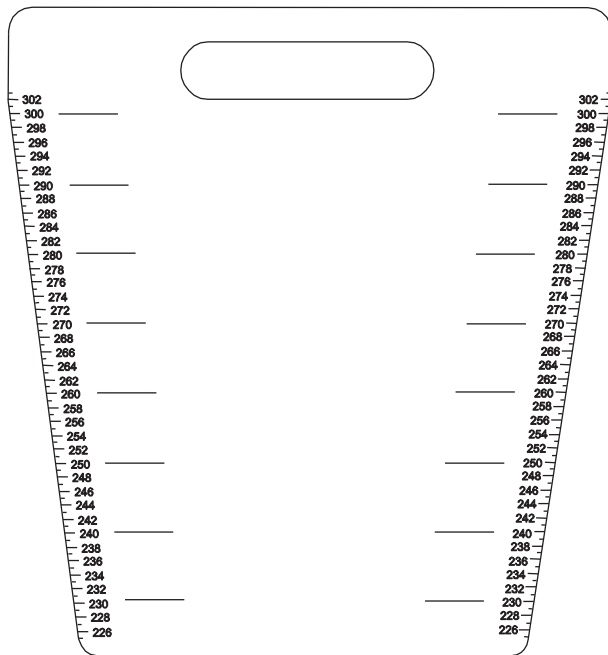
- Radius corners (Typical)
- Cut Out
- Manufacturer's Name Certification Numbers
- Measurement shown thus - near side only
- Measurement shown thus - far side only

- 12 mm hole
- Radius
- Measures symm. about

Example of Skate Gauges



160-236 mm



226-302 mm

Legend:

– Example of Skate Gauges

11. ANNEX I.C OF THE CEM, AS REFERRED TO ARTICLE 13(2)(D) , ARTICLE 24(1)(B) AND ARTICLE 25(6) OF REGULATION (EU) 2019/833

List of Species

Common English Name	Scientific Name	3-Alpha Code
Groundfish		
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 (deepwater)	<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
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
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
Tautog	<i>Tautoga onitis</i>	TAU
Tilefish	<i>Lopholatilus chamaeleonticeps</i>	TIL
White hake*	<i>Urophycis tenuis</i>	HKW
Longfin hake	<i>Urophycis chesteri</i>	GPE
Threebeard rockling	<i>Gaidropsarus ensis</i>	GDE

Common English Name	Scientific Name	3-Alpha Code
Wolffishes (NS)	<i>Anarhichas</i> sp.	CAT
Atlantic wolffish	<i>Anarhichas lupus</i>	CAA
Spotted wolffish	<i>Anarhichas minor</i>	CAS
Northern wolffish	<i>Anarhichas denticulatus</i>	CAB
Groundfish (NS)		GRO
Pelagics		
Atlantic herring	<i>Clupea harengus</i>	HER
Atlantic mackerel	<i>Scomber scombrus</i>	MAC
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
Crevalle jack	<i>Caranx hippos</i>	CVJ
Frigate tuna	<i>Auxis thazard</i>	FRI
King mackerel	<i>Scomberomorus cavalla</i>	KGM
Atlantic Spanish mackerel	<i>Scomberomorus maculatus</i>	SSM
Sailfish	<i>Istiophorus albicans</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
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

Common English Name	Scientific Name	3-Alpha Code
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 atlantic 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 acantias</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 terraenovae</i>	RHT
Black Dogfish	<i>Centroscyllium fabricii</i>	CFB
Boreal (Greenland) shark	<i>Somniosus 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 pealeii</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

Common English Name	Scientific Name	3-Alpha Code
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>Chlamys islandica</i>	ISC
Sea scallop	<i>Placopecten magellanicus</i>	SCA
Scallops (NS)	Pectinidae	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)	Mollusca	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 quinqueedens</i>	CRR
Stone king crab	<i>Lithodes maja</i>	KCT
Marine crabs (NS)	Reptantia	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)	Crustacea	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)	Invertebrata	INV

*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*

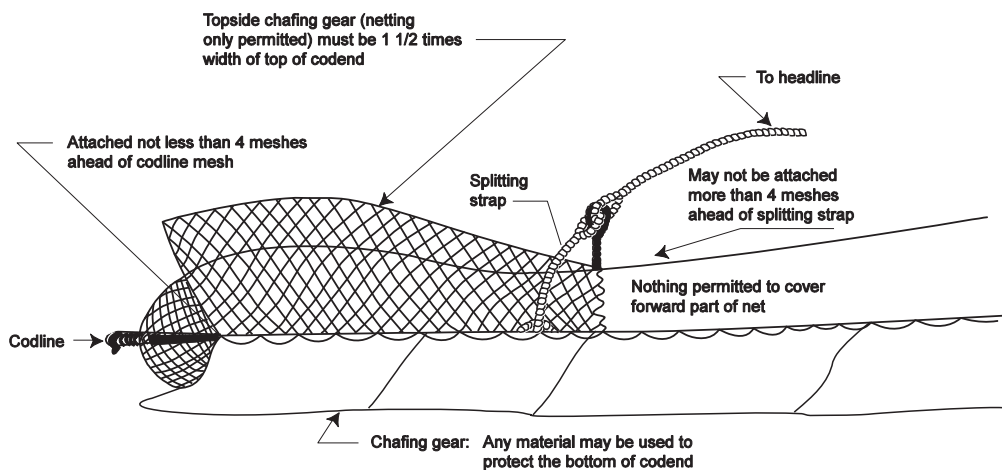
12. ANNEX III.B TO THE CEM, AS REFERRED TO IN ARTICLE 14(2) AND (3) OF REGULATION (EU) 2019/833

Authorized Topside Chafers/Shrimp Toggle Chains

(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 Article 13 of the CEM;
- (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.



Legend:

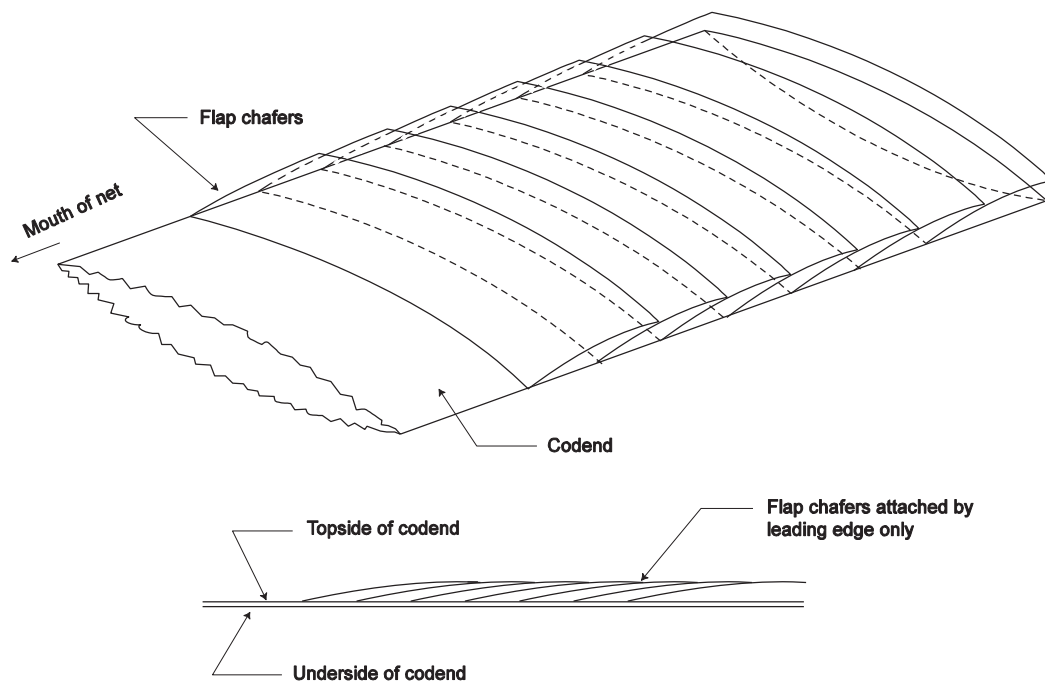
- Topside chafing gear (netting only permitted) must be 1 ½ times width of top of codend
- Attached not less than 4 meshes ahead of codline mesh
- Codline
- Chafing gear: Any material may be used to protect the bottom of codend

- Nothing permitted to cover forward part of net
- May not be attached more than 4 meshes ahead of splitting strap
- To headline
- Splitting strap

(2) Multiple flap-type topside chafer

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

- (i) each piece of netting
 - (a) is fastened 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.



Legend:

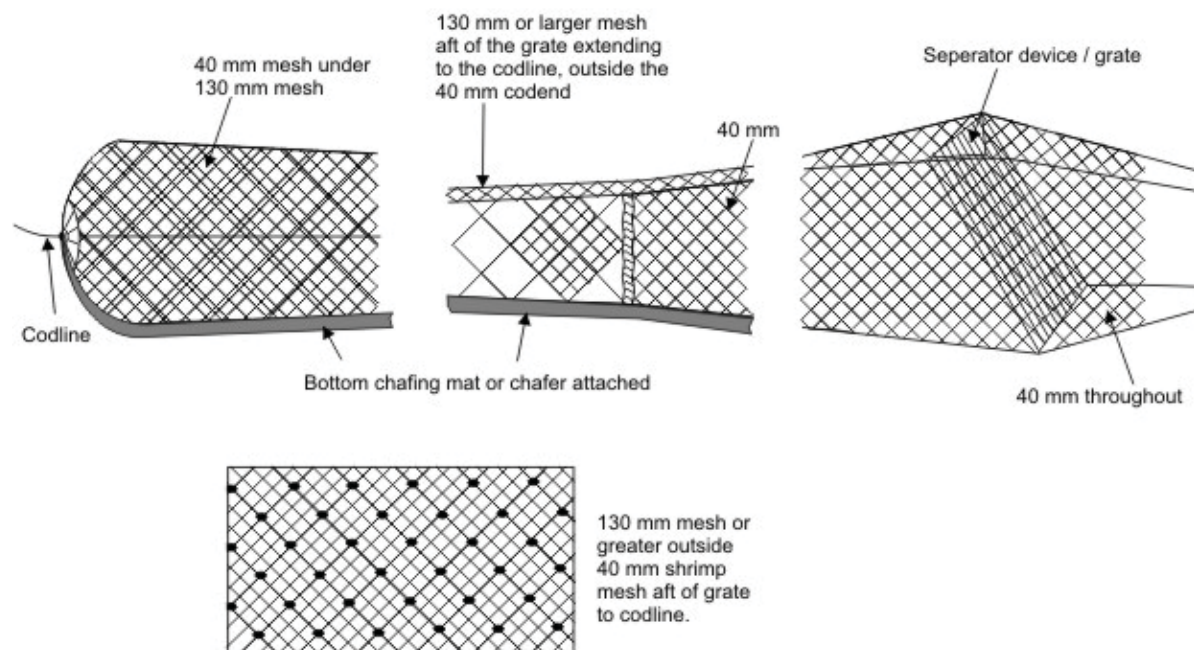
- Flap chafers
- Mouth of net
- Codend
- Topside of codend
- Underside of codend

- Flap chafers attached by leading edge only

(3) Shrimp Trawl – Codend Strengthening Bag, for vessels directing for shrimp in the NRA

A strengthening bag is defined as an outer covering of netting that can be used on a shrimp trawl to protect and provide strength to the codend of the shrimp trawl.

- (a) Vessels shall not use a strengthening bag of which the mesh size is less than 130 millimetres.
- (b) The strengthening bag shall not extend forward of the sorting grids or grates or obstruct the sorting grids or grates in any way.
- (c) A strengthening bag shall not be attached in any way that restricts the authorized mesh or obstructs the mesh opening.
- (d) Vessels shall not use a strengthening bag with any other top-side chafers simultaneously.



Legend:

- 40 mm mesh under 130 mm mesh
- 130 mm or larger mesh aft of the grate extending to the codline, outside the 40 mm codend
- 40 mm
- Separator device/grate
- 40 mm throughout
- Bottom chafing mat or chafer attached
- Codline
- 130 mm mesh or greater outside

– 40 mm shrimp mesh aft of grate to codline

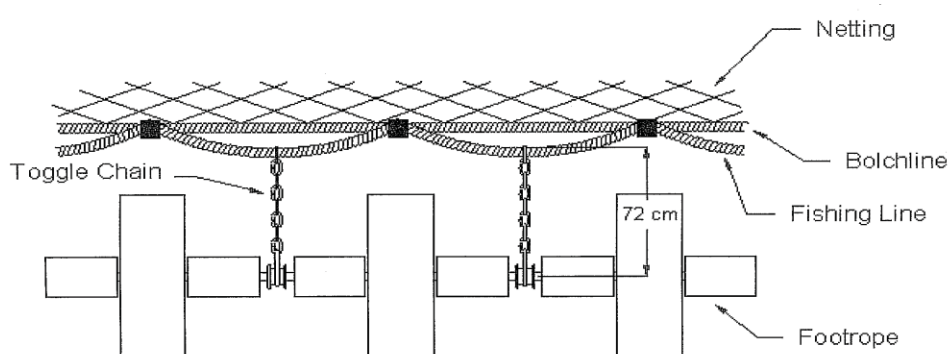
Shrimp Toggle Chains

Toggle chains are chains, ropes, or a combination of both, which attach the footrope to the fishing line or bolchline at varying intervals.

The terms “fishing line “and “bolchline” are interchangeable. Some vessels use one line only; others use both a fishing line and a bolchline as shown in the sketch.

The toggle chain length should be measured from the centre of the chain or wire running through the footrope (centre of footrope) to the underside of the fishing line.

The attached sketch shows how to measure the toggle and chain length.



Legend:

- Netting
- Bolchline
- Fishing Line
- Footrope
- Toggle Chain

13. ANNEX I.D TO THE CEM, AS REFERRED TO IN ARTICLE 16(1) AND (2) OF REGULATION (EU) 2019/833

Minimum Fish Size *

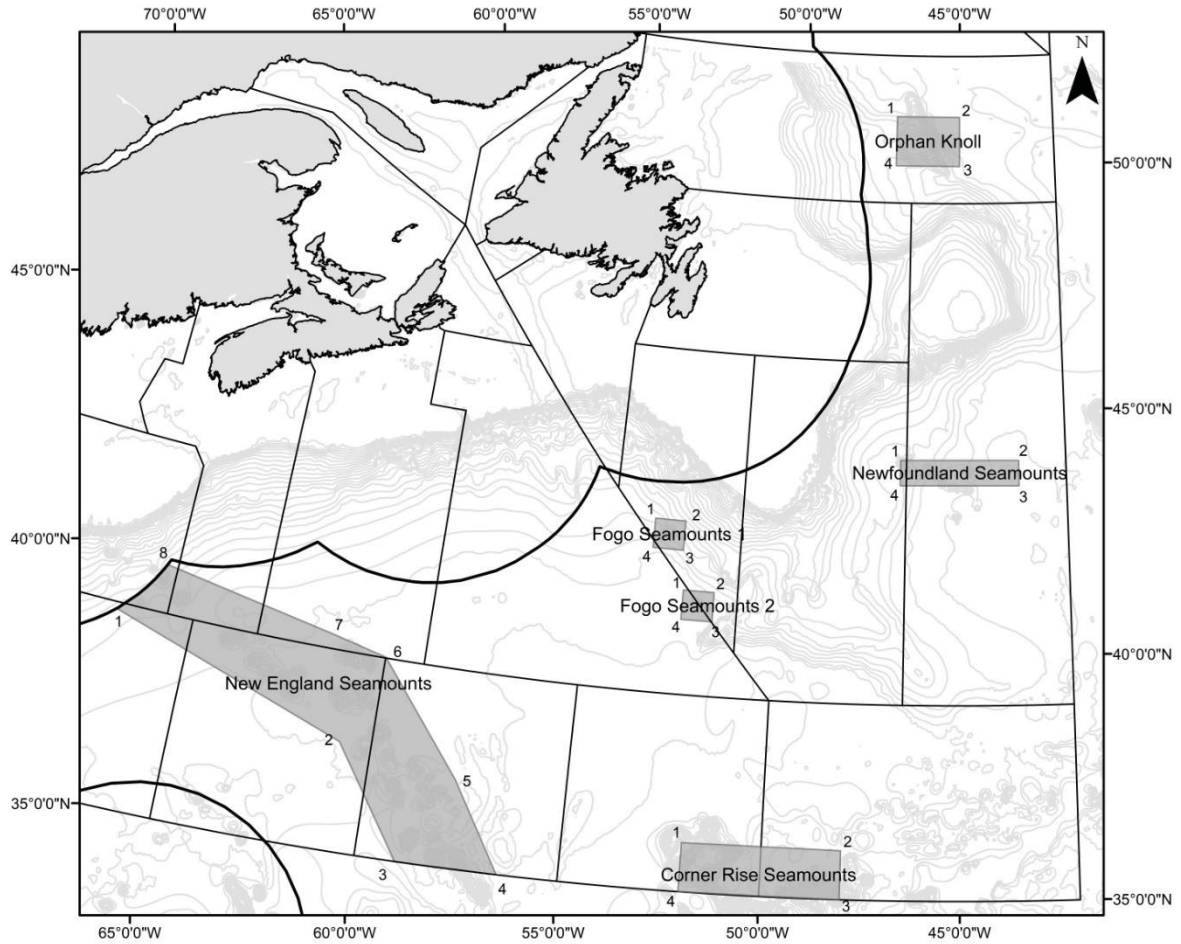
Species	Gilled and gutted fish whether or not skinned; fresh or chilled, frozen, or salted.			
	Whole	Head Off	Head and Tail Off	Head Off and Split
Atlantic Cod	41 cm	27 cm	22 cm	27/25 cm**
Greenland halibut	30 cm	N/A	N/A	N/A
American plaice	25 cm	19 cm	15 cm	N/A
Yellowtail flounder	25 cm	19 cm	15 cm	N/A

* Fish size refers to fork length for Atlantic cod; whole length for other species.

** Lower size for green salted fish.

14. **FIGURE 3 OF THE CEM, AS REFERRED TO IN ARTICLE 18(1) OF REGULATION (EU) 2019/833**

Polygons Delineating Seamount Closures



Legend:

- Orphan Knoll
- Newfoundland Seamounts
- Fogo Seamounts
- New England Seamounts
- Corner Rise Seamounts

15. **TABLE 5 OF THE CEM, AS REFERRED TO IN ARTICLE 18(1) OF REGULATION (EU) 2019/833**

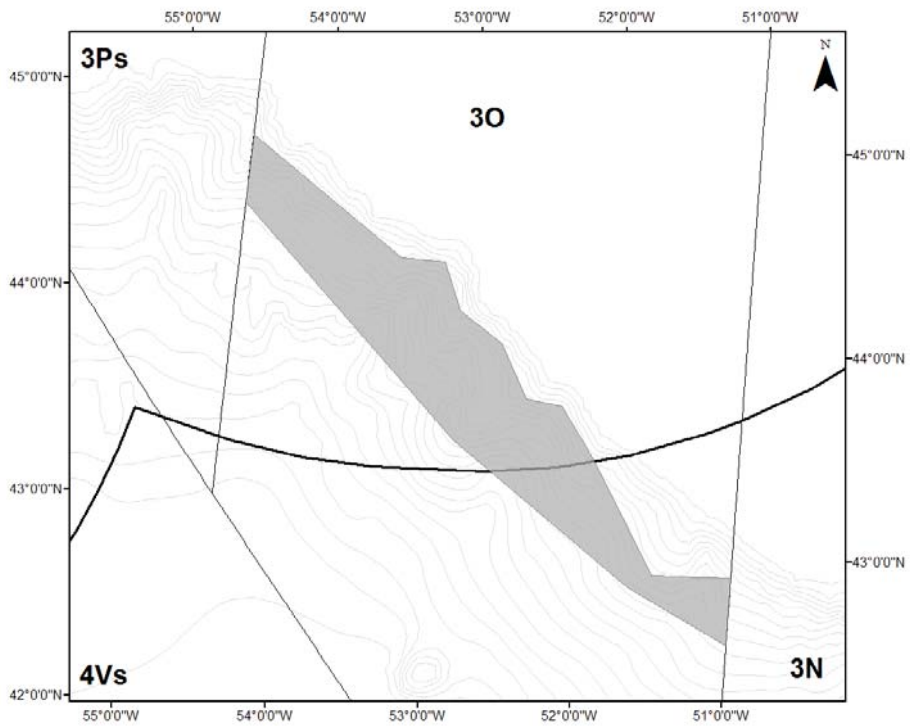
Boundary Points Delineating the Seamount Closures in the NAFO Regulatory Area

Description	Coordinate No.	Latitude	Longitude
Fogo Seamounts 1	1	42°31'33"N	53°23'17"W
	2	42°31'33"N	52°33'37"W
	3	41°55'48"N	53°23'17"W
	4	41°55'48"N	52°33'37"W
Fogo Seamounts 2	1	41°07'22"N	52°27'49"W
	2	41°07'22"N	51°38'10"W
	3	40°31'37"N	52°27'49"W
	4	40°31'37"N	51°38'10"W
Orphan Knoll	1	50°00'30"N	45°00'30"W
	2	51°00'30"N	45°00'30"W
	3	51°00'30"N	47°00'30"W
	4	50°00'30"N	47°00'30"W
Corner Rise Seamounts	1	35°00'00"N	48°00'00"W
	2	36°00'00"N	48°00'00"W
	3	36°00'00"N	52°00'00"W
	4	35°00'00"N	52°00'00"W
Newfoundland Seamounts	1	43°29'00"N	43°20'00"W
	2	44°00'00"N	43°20'00"W
	3	44°00'00"N	46°40'00"W
	4	43°29'00"N	46°40'00"W
New England Seamounts*	1	38°51'54.000" N	66°55'51.600" W
	2	37°12'0.000" N	60°48'0.000" W
	3	35°00'0.000" N	59°00'0.000" W
	4	35°00'0.000" N	56°30'0.000" W
	5	36°48'0.000" N	57°48'0.000" W
	6	39°00'0.000" N	60°00'0.000" W
	7	39°18'0.000" N	61°30'0.000" W
	8	39°56'20.400" N	65°56'34.800" W

*From point 8 back to point 1, following the outer boundary of the US EEZ.

16. **FIGURE 4 OF THE CEM, AS REFERRED TO IN ARTICLE 18(2) OF REGULATION (EU) 2019/833**

Polygon Delineating Area of 30 Coral Closure



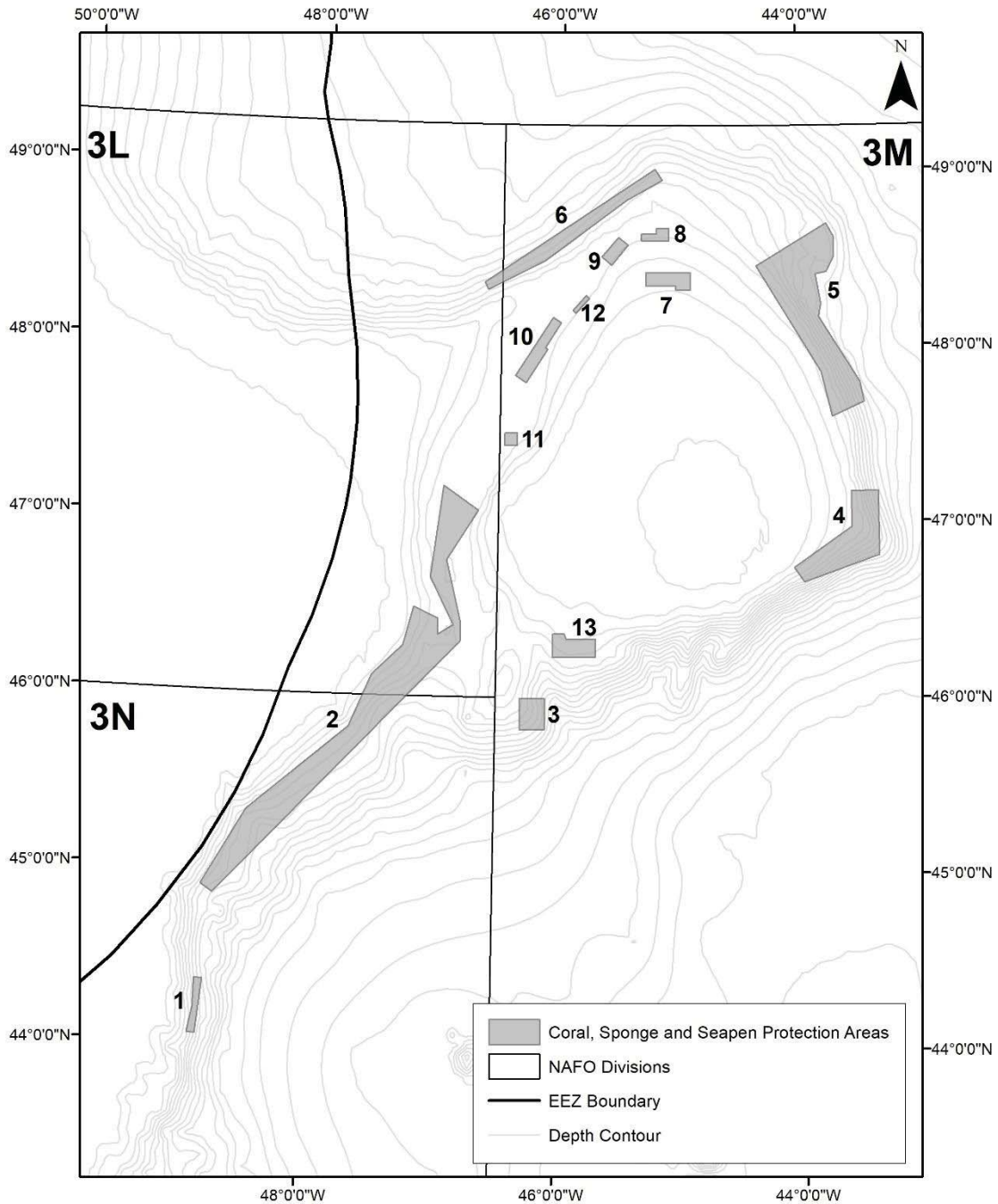
17. **TABLE 6 OF THE CEM, AS REFERRED TO IN ARTICLE 18(2) OF REGULATION (EU) 2019/833**

Boundary Points Delineating the 30 Coral Area Closure in the NAFO Regulatory Area

Coordinate No.	Latitude	Longitude
1	42° 53' 00" N	51° 00' 00" W
2	42° 52' 04" N	51° 31' 44" W
3	43° 24' 13" N	51° 58' 12" W
4	43° 24' 20" N	51° 58' 18" W
5	43° 39' 38" N	52° 13' 10" W
6	43° 40' 59" N	52° 27' 52" W
7	43° 56' 19" N	52° 39' 48" W
8	44° 04' 53" N	52° 58' 12" W
9	44° 18' 38" N	53° 06' 00" W
10	44° 18' 36" N	53° 24' 07" W
11	44° 49' 59" N	54° 30' 00" W
12	44° 29' 55" N	54° 30' 00" W
13	43° 26' 59" N	52° 55' 59" W
14	42° 48' 00" N	51° 41' 06" W
15	42° 33' 02" N	51° 00' 00" W

18. FIGURE 5 OF THE CEM, AS REFERRED TO IN ARTICLE 18(3) AND (4) OF REGULATION (EU) 2019/833

Polygons Delineating Areas of High Sponge and Coral Concentrations



Legend:

- Coral, Sponge and Seapen Protection Areas
- NAFO Divisions
- EEZ Boundary

– Depth Contour

19. TABLE 7 OF THE CEM, AS REFERRED TO IN ARTICLE 18(3) AND (4) OF REGULATION (EU) 2019/833

Boundary Points Delineating the High Sponge and Coral Concentration Area Closures in the NAFO Regulatory Area

Area	Description	Coordinate No.	Latitude	Longitude
1	Tail of the Bank	1.1	44° 02' 53.88" N	48° 49' 9.48" W
		1.2	44° 21' 31.32" N	48° 46' 48" W
		1.3	44° 21' 34.56" N	48° 50' 32.64" W
		1.4	44° 11' 48.12" N	48° 50' 32.64" W
		1.5	44° 02' 54.6" N	48° 52' 52.32" W
2	Flemish Pass/ Eastern Canyon	2.1	44° 50' 56.4" N	48° 43' 45.48" W
		2.2	46° 18' 54.72" N	46° 47' 51.72" W
		2.3	46° 25' 28.56" N	46° 47' 51.72" W
		2.4	46° 46' 32.16" N	46° 55' 14.52" W
		2.5	47° 03' 29.16" N	46° 40' 4.44" W
		2.6	47° 11' 47.04" N	46° 57' 38.16" W
		2.7	46° 40' 40.8" N	47° 03' 4.68" W
		2.8	46° 24' 24.12" N	46° 51' 23.04" W
		2.9	46° 21' 4.78" N	46° 58' 53" W
		2.10	46° 26' 32" N	46° 58' 53" W
		2.11	46° 30' 22.20" N	47° 11' 2.93" W
		2.12	46° 17' 13.30" N	47° 15' 46.64" W
		2.13	46° 07' 1.56" N	47° 30' 36.36" W
		2.14	45° 49' 6.24" N	47° 41' 17.88" W
		2.15	45° 19' 43.32" N	48° 29' 14.28" W
		2.16	44° 53' 47.4" N	48° 49' 32.52" W
3	Beothuk Knoll	3.1	45° 49' 10.2" N	46° 06' 2.52" W
		3.2	45° 59' 47.4" N	46° 06' 2.52" W
		3.3	45° 59' 47.4" N	46° 18' 8.28" W
		3.4	45° 49' 10.2" N	46° 18' 8.28" W
4	Eastern Flemish Cap	4.1	46° 44' 34.80" N	44° 03' 14.40" W
		4.2	46° 58' 19.20" N	43° 34' 16.32" W
		4.3	47° 10' 30.00" N	43° 34' 16.32" W
		4.4	47° 10' 30.00" N	43° 20' 51.72" W
		4.5	46° 48' 35.28" N	43° 20' 51.72" W
		4.6	46° 39' 36.00" N	43° 58' 8.40" W
5	Northeast Flemish Cap	5.1	47° 47' 46.00" N	43° 29' 07.00" W
		5.2	47° 40' 54.47" N	43° 27' 06.71" W
		5.3	47° 35' 57.48" N	43° 43' 9.12" W
		5.4	47° 51' 14.4" N	43° 48' 35.64" W
		5.5	48° 27' 19.44" N	44° 21' 7.92" W
		5.6	48° 41' 37.32" N	43° 45' 08.08" W

Area	Description	Coordinate No.	Latitude	Longitude
		5.7	48° 37' 13.00" N	43° 41' 24.00" W
		5.8	48° 30' 15.00" N	43° 41' 32.00" W
		5.9	48° 25' 08.00" N	43° 45' 20.00" W
		5.10	48° 24' 29.00" N	43° 50' 50.00" W
		5.11	48° 14' 20.00" N	43° 48' 19.00" W
		5.12	48° 09' 53.00" N	43° 49' 24.00" W
6	Sackville Spur	6.1	48° 18' 51.12" N	46° 37' 13.44" W
		6.2	48° 28' 51.24" N	46° 08' 33.72" W
		6.3	48° 49' 37.2" N	45° 27' 20.52" W
		6.4	48° 56' 30.12" N	45° 08' 59.99" W
		6.5	49° 00' 9.72" N	45° 12' 44.64" W
		6.6	48° 21' 12.24" N	46° 39' 11.16" W
7	Northern Flemish Cap	7.1	48° 25' 02.28" N	45° 17' 16.44" W
		7.2	48° 25' 02.28" N	44° 54' 38.16" W
		7.3	48° 19' 08.76" N	44° 54' 38.16" W
		7.4	48° 19' 08.76" N	45° 01' 58.56" W
		7.5	48° 20' 29.76" N	45° 01' 58.56" W
		7.6	48° 20' 29.76" N	45° 17' 16.44" W
8	Northern Flemish Cap	8.1	48° 38' 07.95" N	45° 19' 31.92" W
		8.2	48° 38' 07.95" N	45° 11' 44.36" W
		8.3	48° 40' 9.84" N	45° 11' 44.88" W
		8.4	48° 40' 9.84" N	45° 05' 35.52" W
		8.5	48° 35' 56.4" N	45° 05' 35.52" W
		8.6	48° 35' 56.4" N	45° 19' 31.92" W
9	Northern Flemish Cap	9.1	48° 34' 23.52" N	45° 26' 18.96" W
		9.2	48° 36' 55.08" N	45° 31' 15.96" W
		9.3	48° 30' 18.36" N	45° 39' 42.48" W
		9.4	48° 27' 30.6" N	45° 34' 40.44" W
10	Northwest Flemish Cap	10.1	47° 49' 41.51" N	46° 22' 48.18" W
		10.2	47° 47' 17.14" N	46° 17' 27.91" W
		10.3	47° 58' 42.28" N	46° 6' 43.74" W
		10.4	47° 59' 15.77" N	46° 7' 57.76" W
		10.5	48° 7' 48.97" N	45° 59' 58.46" W
		10.6	48° 9' 34.66" N	46° 4' 8.54" W
11	Northwest Flemish Cap	11.1	47° 25' 48" N	46° 21' 23.76" W
		11.2	47° 30' 1.44" N	46° 21' 23.76" W
		11.3	47° 30' 1.44" N	46° 27' 33.12" W
		11.4	47° 25' 48" N	46° 27' 33.12" W
12	Northwest Flemish Cap	12.1	48° 12' 6.60" N	45° 54' 12.94" W
		12.2	48° 17' 11.82" N	45° 47' 25.36" W
		12.3	48° 16' 7.06" N	45° 45' 48.19" W
		12.4	48° 11' 3.32" N	45° 52' 40.63" W
13	Beothuk Knoll	13.1	46° 13' 58.80" N	45° 41' 13.20" W

Area	Description	Coordinate No.	Latitude	Longitude
		13.2	46° 13' 58.80" N	46° 02' 24.00" W
		13.3	46° 21' 50.40" N	46° 02' 24.00" W
		13.4	46° 21' 50.40" N	45° 56' 48.12" W
		13.5	46° 20' 14.32" N	45° 55' 43.93" W
		13.6	46° 20' 14.32" N	45° 41' 13.20" W

20. EXPLORATORY PROTOCOL IN ANNEX I.E TO THE CEM, AS REFERRED TO IN ARTICLE 19(1) OF REGULATION (EU) 2019/833

Templates for the Conduct of Exploratory Bottom Fishing Activities

Exploratory Protocol for New Fishing Areas

The Exploratory Protocol shall consist of:

- A harvesting plan which outlines target species, dates and areas. Area and effort restrictions should be considered to ensure fisheries occur on a gradual basis in a limited geographical area.
- A mitigation plan including measures to prevent significant adverse impact to vulnerable marine ecosystems that may be encountered during the fishery.
- A catch monitoring plan that includes recording/reporting of all species caught, 100% satellite tracking and 100% observer coverage. The recording/reporting of catch should be sufficiently detailed to conduct an assessment of activity, if required.
- A data collection plan to facilitate the identification of vulnerable marine ecosystems/species in area fished.

21. NOTICE OF INTENT TO UNDERTAKE EXPLORATORY BOTTOM FISHING IN ANNEX I.E TO THE CEM, AS REFERRED TO IN POINT ARTICLE 19(2)(A) OF REGULATION (EU) 2019/833

Notice of Intent to Undertake Exploratory Fishing

HARVESTING PLAN	MITIGATION PLAN	CATCH MONITORING PLAN	DATA COLLECTION PLAN
<ul style="list-style-type: none"> • Target species • Fishing dates • Description of area to be fished • Anticipated effort • Bottom fishing gear-type(s) used • IMO Number 	<ul style="list-style-type: none"> • Measures to prevent significant adverse impacts to VMEs 	<ul style="list-style-type: none"> • Identify and record all species brought onboard to the lowest possible taxonomic level • 100% satellite coverage • 100% observer coverage 	<ul style="list-style-type: none"> • Data will be collected and reported in a standardized format

22. **EXPLORATORY BOTTOM FISHING TRIP REPORT IN ANNEX I.E OF THE CEM, AS REFERRED TO IN ARTICLE 19(2)(B) OF REGULATION (EU) 2019/833**

Exploratory Fishing Trip Report

Advanced notice of intent to undertake exploratory fishing¹

Name of vessel:

Flag State of vessel:

Anticipated location(s) of exploratory fishing activities (include lat/long):

Anticipated dates of exploratory fishing activities:

Has any **previous fishing** been undertaken in adjacent areas (if so, identify information source):

Depths expected to be encountered during exploratory fishing activities:

Do **habitat maps** of the area exist (if so, please identify source(s)):

Are **taxonomic keys** identifying potentially vulnerable species available (if so, identify sources(s)):

Known **vulnerable marine ecosystems (VMEs)**² in the location(s) to be fished:

Mitigation measures to prevent significant adverse impact to VMEs, if encountered:

Do **bathymetric maps** of the exploratory area exist (if so, please identify source(s)):

Does any **fisheries scientific information** in the exploratory area exist (if so, identify source(s)):

Target species being sought:

What **gear type(s)** are being proposed to be used (please identify) in what areas (include lat/long):

¹ exploratory fishing is defined as all bottom fishing activities in new areas or with bottom gear not previously used in the area concerned and not identified in Article 16 of the CEM.

2 refer to FAO *International Guidelines for the Management of Deep-Sea Fisheries in the High Seas*.

23. ELEMENTS FOR ASSESSMENT OF PROPOSED EXPLORATORY BOTTOM FISHING ACTIVITIES IN ANNEX I.E TO THE CEM, AS REFERRED TO IN ARTICLE 20(2)(B) OF REGULATION (EU) 2019/833

Assessment of Bottom Fishing Activities

Assessments should consider the best available scientific and technical information on the current state of fishery resources.

Assessments should address, *inter alia*:

- (1) Type(s) of fishing conducted or contemplated, including vessels and gear types, fishing areas, target and potential bycatch species, fishing effort levels and duration of fishing (harvesting plan);
- (2) Existing baseline information on the ecosystems, habitats and communities in the fishing area, against which future changes are to be compared;
- (3) Identification, description and mapping of VMEs known or likely to occur in the fishing area;
- (4) Identification, description and evaluation of the occurrence, scale and duration of likely impacts, including cumulative impacts of activities covered by the assessment on VMEs;
- (5) Consideration of VME elements known to occur in the fishing area;
- (6) Data and methods used to identify, describe and assess the impacts of the activity, the identification of gaps in knowledge, and an evaluation of uncertainties in the information presented in the assessment;
- (7) Risk assessment of likely impacts by the fishing operations to determine which impacts on VMEs are likely to be significant adverse impacts; and
- (8) The proposed mitigation and management measures to be used to prevent significant adverse impacts on VMEs, and the measures to be used to monitor effects of the fishing operations.

24. **EXPLORATORY FISHERY DATA COLLECTION FORM IN ANNEX I.E TO THE CEM, AS REFERRED TO IN ARTICLE 21(4)(A) OF REGULATION (EU) 2019/833**

Exploratory Fishery Data Collection Form											
A. Fishing Trip Information											
Flag State		Vessel Name		Call Sign		Date of Encounter (ddmmyy)					
B. Gear and Fishing Information (use separate form for each gear).											
Fishing Gear (e.g. trawl, gill net, hook and line, etc.)		Gear Details	Gear Type (e.g. bottom trawl, set gill net, etc.)								
			Gear Size (groundrope length, panel length, etc.)								
			Other Details (cod end mesh size, # of hooks, etc.)								
		hr.	min.	degrees		minutes		metres			
Tow or Set Start:	GMT Time:			Latitude	N		Depth				
				Longitude	W						
Tow or Set End:	GMT Time:			Latitude	N		Depth				
				Longitude	W						
C. Catch Information *Do not leave blank. Indicate zero catch if necessary											
Live Corals total weight in the haul (kg)*				Live Sponges total weight in the haul (kg)*							
Organisms identified to the lowest taxonomic unit as possible** Include fish and invertebrates					Biological Samples Taken?		Biological samples of Vulnerable Indicator Species taken?		Total Weight (kg) in catch	Weight is estimate or actual? Tick one.	
										yes	no
D. Comments											

**Refer to Annex I of the *FAO International Guidelines for the Management of Deep-Sea Fisheries in the High Seas*.

Also, use *NAFO Coral and Sponge Identification Guides* as appropriate.

25. FORMAT PRESCRIBED FOR LIST OF VESSELS IN ANNEX II.C1 TO THE CEM, AS REFERRED TO IN ARTICLE 22(1)(A) OF REGULATION (EU) 2019/833

Format for register of vessels

Data Element	Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO Secretariat
From	FR	M	Message detail; ISO-3 code of the transmitting Member State
Record Number	RN	M	Message detail; message serial number in current year
Record Date	RD	M	Message detail; date of transmission
Record Time	RT	M	Message detail; time of transmission
Type of Message	TM	M	Message detail; message type, " NOT " as Notification of vessels that may conduct fishing activities in NAFO RA
Vessel Name	NA	M	Name of the vessel
Radio Call Sign	RC	M	International radio call sign of the vessel
Flag State	FS	M	State where the vessel is registered
Internal Reference Number	IR	O ¹	Unique Member State vessel number as ISO-3 flag State code followed by number
External Registration Number	XR	M	The side number of the vessel
Vessel IMO Number	IM	M	IMO number
Port Name	PO	M	Port of registration or home port
Vessel Owner	VO	M ²	Registered owner and address
Vessel Charterer	VC	M ²	Responsible for using the vessel
Vessel Type	TP	M	FAO vessel code (Annex II.I)
Vessel Gear	GE	O	FAO statistical classification of fishing gear (Annex II.J)
Vessel Tonnage measurement method tonnage	VT	M	Vessel tonnage capacity in pairs as needed "OC" = "OSLO" Convention 1947, "LC" "London" Convention ICTM-69 Total capacity in metric tons
Vessel length measurement method length	VL	M	Length in meters in pairs as needed "OA" = overall; length in meters
Vessel Power measurement method power	VP	M	Engine power in pairs as needed in "KW" PE = propulsion engine AE= Auxiliary summary engines Total installed engine power in vessel measured in "KW"
End of record	ER	M	System detail; indicates end of the record

¹ Mandatory when used as a single identification in other messages.

² Whichever one is appropriate.

26. FORMAT PRESCRIBED FOR DELETION FROM THE LIST OF VESSELS IN ANNEX II.C2 TO THE CEM, AS REFERRED TO IN ARTICLE 22(1)(B) OF REGULATION (EU) 2019/833

Format for withdrawal of vessels from the register

Data Element	Code	Mandatory/Optional	Remarks
Data Al			
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO Secretariat
From	FR	M	Message detail; ISO-3 code of the transmitting Member State
Record Number	RN	M	Message detail; message serial number in current year
Record Date	RD	M	Message detail; date of transmission
Record Time	RT	M	Message detail; time of transmission
Type of Message	TM	M	Message detail; message type, "WIT" as Withdrawal of notified vessels
Vessel Name	NA	M	Name of the vessel
Radio Call Sign	RC	M	International radio call sign of the vessel
Internal Reference Number	IR	O	Unique Member State vessel number as ISO-3 flag State code followed by number, if exists
External Registration Number	XR	M	The side number of the vessel
Vessel IMO Number	IM	M	IMO number
Start Date	SD	M	The first date as from which the withdrawal takes affect
End of record	ER	M	System detail; indicates end of the record

27. FORMAT SPECIFIED FOR INDIVIDUAL AUTHORIZATION FOR EACH VESSEL IN ANNEX II.C3 TO THE CEM, AS REFERRED TO IN ARTICLE 22(5)(A) OF REGULATION (EU) 2019/833

Format for authorization to conduct fishing activities

Data Element	Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO Secretariat
From	FR	M	Message detail; ISO-3 code of the transmitting Member State
Record Number	RN	M	Message detail; message serial number in current year
Record Date	RD	M	Message detail; date of transmission
Record Time	RT	M	Message detail; time of transmission
Type of Message	TM	M	Message detail; message type, "AUT" as Authorization of vessels to conduct fishing activities in the NAFO RA
Vessel Name	NA	M	Name of the vessel
Radio Call Sign	RC	M	International radio call sign of the vessel
Internal reference Number	IR	O	Unique Member State vessel number as ISO-3 flag State code followed by number, if exists
External registration Number	XR	M	The side number of the vessel
Vessel IMO Number	IM	M	IMO number
Start Date	SD	M	License detail; date as from which the Authorization takes effect
End date	ED	O	License detail: Date on which the authorization go to the end. Maximum time validity is 12 months.
Targeted species and Area	TA	M ³	License detail; species and area allowed for directed fishery. Regulated species of Annex I.A or I.B of the CEM must refer to the stock specification. For unregulated species use Sub Area or division or "ANY". Allow for several pairs of fields. e.g. //TA/GHL 3LMNO COD 3M RED 3LN RED 3M HER ANY//
End of record	ER	M	System detail; indicates end of the record

³ For transport vessels the TA field is optional.

28. FORMAT PRESCRIBED FOR SUSPENSION OF THE AUTHORISATION IN ANNEX II.C4 TO THE CEM, AS REFERRED TO IN ARTICLE 22(5)(B) OF REGULATION (EU) 2019/833

Format to suspend the authorization to conduct fishing activities

Data Element	Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO Secretariat
From	FR	M	Message detail; ISO-3 code of the transmitting Member State
Record Number	RN	M	Message detail; message serial number in current year
Record Date	RD	M	Message detail; date of transmission
Record Time	RT	M	Message detail; time of transmission
Type of Message	TM	M	Message detail; message type, "SUS" as Suspension of authorized vessels
Vessel Name	NA	M	Name of the vessel
Radio Call Sign	RC	M	International radio call sign of the vessel
Internal Reference Number	IR	O	Unique Member State vessel number as ISO-3 flag State code followed by number, if exists
External Registration Number	XR	M	The side number of the vessel
Vessel IMO Number	IM	M	IMO number
Start Date	SD	M	License detail; date as from which the Suspension takes effect
End of record	ER	M	System detail; indicates end of the record

29. LIST OF PRODUCT FORM PRESENTATION CODES IN ANNEX II.K TO THE CEM, AS REFERRED TO IN ARTICLE 24(1)(E) OF REGULATION (EU) 2019/833

Product Form Presentation 3-Alpha Codes

3-Alpha Code	Presentation	Description
CBF	Cod butterfly (escalado)	HEA with skin on, spine on, tail on
CLA	Claws	Claws only
DWT	ICCAT code	Gilled, gutted, part of head off, fins off
FIL	Filleted	HEA + GUT + TLD + bones off Each fish originates two fillets
FIS	Filleted and skinned fillets	FIL+SKI Each fish originates two fillets not joined by any part
FSB	Filleted with skin and bones	Filleted with skin and bones on
FSP	Filleted skinned with	Filleted with skin removed and pinbone on
GHT	Gutted headed and tailed	GUH+TLD
GUG	Gutted and gilled	Guts and gills removed
GUH	Gutted and headed	Guts and head removed
GUL	Gutted liver in	GUT without removing liver parts
GUS	Gutted headed and skinned	GUH+SKI
GUT	Gutted	All guts removed
HEA	Headed	Heads off
HET	Headed and tailed	Heads and tails off
JAP	Japanese cut	Transversal cut removing all parts from head to belly
JAT	Tailed Japanese cut	Japanese cut with tail removed
LAP	Lappen	Double fillet, HEA, skin + tails + fins ON
LVR	Liver	Liver only
OTH	Other	Any other presentation
ROE	Roe (s)	Roe(s) only
SAD	Salted dry	Headed with skin on, spine on, tail on and salted dry
SAL	Salted wet light	CBF + salted
SGH	Salted, gutted and headed	GUH + salted
SGT	Salted gutted	GUT + salted
SKI	Skinned	Skin off
SUR	Surimi	Surimi
TAL	Tail	Tails only
TLD	Tailed	Tail off
TNG	Tongue	Tongue only
TUB	Tube only	Tube only (Squid)
WHL	Whole	No processing
WNG	Wings	Wings only

30. MODEL FOR FISHING LOGBOOK IN ANNEX II.A TO THE CEM, AS REFERRED TO IN ARTICLE 25(2) OF REGULATION (EU) 2019/833

Recording of Catch (Logbook Entries)

FISHING LOGBOOK ENTRIES

Item of Information

- (1) Vessel name
- (2) Vessel nationality
- (3) Vessel registration number
- (4) IMO number
- (5) Registration port
- (6) Type of gear used (*1) (*2)
- (7) Date of fishing activity (day/month/year: dd-mm-yyyy)
- (8) Start time of tow/set (UTC)
- (9) Start position of each tow/set:
 - (a) Latitude
 - (b) Longitude
 - (c) Division
 - (d) Water depth
- (10) End position of each tow/set:
 - (a) Latitude
 - (b) Longitude
 - (c) Division
 - (d) Water depth
- (11) End time of each tow/set (UTC)
- (12) Species names caught in each tow/set (Annex I.C)
- (13) Disposition of each tow/set: (*3) (*4)
 - (a) Total catch of each species (kilograms live weight)
 - (b) Discards of each species (kilograms live weight)
- (14) Were bycatch limits specified in Article 6.6 of the CEM exceeded? (Y/N)
- (15) Was a trial tow conducted in accordance with Article 6.6 (iii) of the CEM conducted? (Y/N)
- (16) Landings or Transhipments of catch from the Regulatory Area
 - (a) Quantity landed or transhipped of each species
 - (b) Place(s) of landing or transhipment
 - (c) Date(s) of landing or transhipment (day/month/year): dd-mm-yyyy)

(17) Master's signature

Instructions:

- (*1) When two or more types of gear are used in the same 24-hours period, records should be separate for the different types
- (*2) Gears and attachments shall be identified by codes in Annex II.J of the CEM
- (*3) Quantities shall be in kg live weight
- (*4) Species shall be identified by the codes in Annex I.C of the CEM

31. FORMAT FOR CATCH REPORT IN ANNEX II.D TO THE CEM, AS REFERRED TO IN ARTICLE 25(6) AND (8) AND ARTICLE 26(9)(B) OF REGULATION (EU) 2019/833

A. Data transmission format

Each data transmission is structured as follows:

- (1) Data characters in accordance with ISO 8859.1
- (2) 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 (“//”) at the end indicates the end of a record.

B. Data exchange protocols

Authorized data exchange protocols for electronic transmission of reports and messages between Contracting Parties and the Secretary shall be in accordance with Annex II.B of the CEM, Rules on Confidentiality.

C. Format for electronic exchange of fisheries monitoring information
(The North Atlantic Format)

Category	Data Element	Field code	Type	Contents	Definitions
System	Start Record	SR			Indicates start of the record
Details	End Record	ER			Indicates end of the record
	Return Status	RS	Char*3	Codes	ACK/NAK = Acknowledged/Not Acknowledged
	Return Error Number	RE	Num*3	001 – 999	Codes indicating errors as received at operation centre, see Annex II.D.D(2)
Message	Address destination	AD	Char*3	ISO-3166 Address	Address of the party receiving the message, “XNW” for NAFO
Details	From	FR	Char*3	ISO-3166 Address	Address of the transmitting party, (Contracting Party)
	Type of Message	TM	Char*3	Code	Code for the message type
	Sequence Number	SQ	Num*6	NNNNNN	Serial number of messages sent from a vessel to the final destination (XNW). It is unique for each vessel for a calendar year. At the beginning of the current year this value will be reset to 1 for each vessel and will increment at the sending of each message.
	Record Number	RN	Num*6	NNNNNN	Serial number of records sent from the FMC to XNW. It is unique for each FMC for a calendar year. At the beginning of the current year this value will be reset to 1 and will increment at the sending of each record.
	Record Date	RD	Num*8	YYYYMMDD	Year, month and day in UTC from the FMC
	Record Time	RT	Num*4	HHMM	Hours and minutes in UTC from the FMC
	Date	DA	Num*8	YYYYMMDD	Year, month and day in UTC of first transmission. In cases of RET messages first transmission is from the FMC, in all other cases first transmission is from the vessel.
	Time	TI	Num*4	HHMM	Hours and minutes in UTC of first transmission. In cases of RET messages first transmission is from the FMC, in all other cases first transmission is from the vessel.
	Cancelled report	CR	Num*6	NNNNNN	Record Number of the record to be cancelled
	Year of the report cancelled	YR	Num*4	NNNN	Year in UTC of the report to be cancelled
Vessel	Radio Call Sign	RC	Char*7	IRCS Code	International Radio Call Sign of the vessel
Registration	Vessel name	NA	Char*30		Name of the vessel
Details	Ext. registration	XR	Char*14		Side Number of the vessel
	Flag State	FS	Char*3	ISO-3166	State of registration
	Contracting Party internal ref. number	IR	Char*3 Num*9	ISO-3166 +max. 9N	Unique vessel number attributed by the flag State in accordance with registration
	Port Name	PO	Char*20		Port of registration of the vessel/homeport
	Vessel Owner	VO	Char*60		Name and address of the vessel owner
	Vessel Charterer	VC	Char*60		Name and address of the vessel charterer
Vessel IMO Number	IMO Number	IM	Num*7	NNNNNNN	IMO ship identification number

Category	Data Element	Field code	Type	Contents	Definitions
Vessel Character. Details	Vessel Tonnage Unit	VT	Char*2 Num*4	"OC"/"LC" Tonnage	According to: "OC" OSLO 1947 Convention /"LC" LONDON ICTM-69
	Vessel Power Unit	VP	Char*2 Num*5	0-99999	Total main engine power in "KW"
	Vessel Length	VL	Char*2 Num*3	"OA" Length in meters	Unit "OA" length overall. Total length of the vessel in meters, rounded to the nearest whole meter
	Vessel Type	TP	Char*3	Code	As listed in Annex II.I of the CEM
	Fishing Gear	GE	Char*3	FAO Code	International Standard Statistical Classification of the Fishing Gear as Annex II.J of the CEM
Authorization details	Start Date	SD	Num*8	YYYYMMDD	Licence detail; date on which the authorization starts
	End Date	ED	Num*8	YYYYMMDD	Licence detail; date on which the authorization ends
	Targeted species and Area	TA	Char*3 Char*10	Stock specifications, FAO Species code and NAFO defined area code or "ANY"	Species and area allowed for directed fishery. Regulated species of Annex I.A or I.B of the CEM must refer to the stock specification. For unregulated species use Sub Area or division or "ANY". Allow for several pairs of fields. e.g. //TA/GHL 3LMNO COD 3M RED 3LN RED 3M HER ANY//
Activity Details	Latitude	LA	Char*5	NDDMM (WGS-84)	e.g. //LA/N6235 = 62°35' North
	Longitude	LO	Char*6	E/WDDMM (WGS-84)	e.g. //LO/W02134 = 21°34' West
	Latitude (decimal)	LT	Char*7	+/-DD.ddd	Value negative if latitude is in the southern hemisphere ¹ (WGS84)
	Longitude (decimal)	LG	Char*8	+/-DDD.ddd	Value negative if longitude is in the western hemisphere ¹ (WGS84)
	Trip Number	TN	Num*3	001-999	Number of the fishing trip in current year
	Catch Species Quantity	CA	Char*3 Num*7	FAO species code 0-9999999	Daily catch by species and by Division, retained on board, in kilograms live weight
	Quantity onboard Species Quantity	OB	Char*3 Num*7	FAO species code 0-9999999	Total quantity by species on board the vessel at the moment of sending the hail message concerned in kilograms live weight
	Discard Species Quantity	RJ	Char*3 Num*7	FAO species code 0 - 9999999	Catch discarded by species and by Division in kilograms live weight
	Undersize Species Quantity	US	Char*3 Num*7	FAO species code 0 - 9999999	Undersize catch by species and by Division in kilograms live weight
	Transferred species Species Quantity	KG	Char*3 Num*7	FAO species code 0-9999999	Information concerning the quantities transferred between vessels by species in kilograms live weight rounded to the nearest 100 Kg. whilst operating in the R.A.
	Relevant Area	RA	Char*6	ICES/NAFO Codes	Code for the relevant fishing area

Category	Data Element	Field code	Type	Contents	Definitions
	Directed Species	DS	Char*3	FAO species codes	Code for the species the vessel is targeting. Allow for several species, separated by a space. e.g. //DS/species species species//
	Observer on board	OO	Char*1	Y or N	Presence of a compliance observer on board
	Transhipped From	TF	Char*7	IRCS Code	International Radio Call Sign of the donor vessel
	Transhipped To	TT	Char*7	IRCS Code	International Radio Call Sign of the receiving vessel
	Master Name	MA	Char*30		Name of the vessels master
	Coastal State	CS	Char*3	ISO-3166 3 Alpha Code	Coastal State of Port of Landing
	Predicted Date	PD	Num*8	YYYYMMDD	Estimated date UTC when the master intends to be in port
	Predicted Time	PT	Num*4	HHMM	Estimated time UTC when the master intends to be in port
	Port Name	PO	Char*20		Name of the actual port of landing
	Speed	SP	Num*3	Knots*10	e.g. //SP/105 = 10.5 knots
	Course	CO	Num*3	360° degree scale	e.g. //CO/270 = 270
	Chartering Flag Catches	CH	Char*3	ISO-3166	Flag of Chartering Contracting Party
	Area of Entry	AE	Char*6	ICES/NAFO Codes	NAFO Division entering into
	Days fished	DF	Num*3	1-365	Number of days the vessel spent in the fishing zone during the trip.
	Apparent Infringement	AF	Char*1	Y or N	For onboard observer to report his observations
	Mesh Size	ME	Num*3	0 – 999	Average mesh size in millimetres
	Production	PR	Char*3	Code	Code for the production Annex II.K
	Logbook	LB	Char*1	Y or N	For onboard observer to approve the entries in the vessels logbook
	Hails	HA	Char*1	Y or N	For onboard observer to approve the hails sent from the vessel
	Observer Name	ON	Char*30	Text	Name of the onboard observer
	Free Text	MS	Char*255	Text	Activity detail; for further comments by observer

1 The plus sign (+) does not need to be transmitted; leading zeros can be omitted.

D.1. Structure of reports and messages as laid down in Annex II.E and Annex II.F when forwarded by the FMC to the Secretary

Where appropriate, each Member State shall retransmit to the Secretary reports and messages received from its vessels in accordance with Articles 28 and 29 of the CEM; subject to the following amendments:

- the address (AD) shall be replaced by the address of the Secretary (XNW)
- the data elements “record date” (RD), “record time” (RT), “record number” (RN) and “from” (FR) shall be inserted.

D. 2. Return messages.

If a Member State so requests, the Secretary shall send a return message every time an electronic transmission of a report or message is received.

A) Return message format:

Data Element	Field Code	Mandatory/Optional	Remarks
Start Record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, Contracting Party sending the report
From	FR	M	Message detail; XNW is NAFO (who is sending the return message)
Type of message	TM	M	Message detail; message type RET for return message
Radio call sign	RC	O	Reporting detail; international radio call sign of the vessel, copied from the report which is received.
Sequence number	SQ	O	Reporting detail; serial number of the report from the vessel in the relevant year, copied from the report which is received.
Return Status	RS	M	Reporting detail; code showing whether the message is acknowledged or not (ACK or NAK)
Return error number	RE	O	Reporting detail; number showing the type of error. See table B) for return error numbers.
Record number	RN	M	Reporting detail; record number of the message which is received
Date	DA	M	Message detail; date of transmission
Time	TI	M	Message detail; time of transmission
End of Record	ER	M	System detail; indicates end of the record

B) Return error numbers

Subject/Article	Errors 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			Unauthorized 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
Article 25 of the CEM			250	Attempt to re-Notify a vessel
		251		Vessel is not Notified
		252		Species not AUT or SUS
Article 28 of the CEM		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

E. Types of reports and messages

Annex	Provisions	Code	Message / Report	Remarks
II.C	Article 25.1a of the CEM	NOT	Notification	Notification of fishing vessels
II.C	Article 25.1b of the CEM	WIT	Withdrawal	Notification of the withdrawal of a registered vessel
II.C	Article 25.5a of the CEM	AUT	Authorization	Notification of vessels authorized to conduct fishing activities in the R.A.
II.C	Article 25.5b of the CEM	SUS	Suspension	Notification of the suspension of an authorization to conduct fishing activities in the Regulatory Area, within its initial period of validity
II.E	Article 29.2 of the CEM Article 29.8 of the CEM	ENT POS EXI MAN	Entry Position Exit Manual position	VMS messages Reports transmitted by fishing vessels with a defective satellite tracking device to the Contracting Party
II.F	Article 28.6(a) of the CEM Article 28.6(c) of the CEM Article 28.6(d) of the CEM Article 28.6(e) of the CEM Article 28.6(f) of the CEM Article 28.6(b) of the CEM Article 28.6 of the CEM	COE CAT COB TRA POR COX CAN	Catch on Entry Catch Cross boundary Transshipment Port of Landing Catch on Exit Cancel	Report transmitted by fishing vessels, prior to entering the R.A. Catch report daily, for all species by Division Catch report prior to crossing boundary to 3L Report on quantities on-loaded or off-loaded in the R.A. Report on catch onboard and weight to be landed Report transmitted by fishing vessels, prior to leaving the R.A. Report for cancellation of a report set out in the Article 28.6 of the CEM
II.D.D	Article 29.10(a) of the CEM Article 28.9(c) of the CEM	RET	Return	Automatic electronic message in accordance with reception of records
II.G.	Article 30.14(e) of the CEM	OBR	Observer	Daily Observer report

32. FORMAT FOR CANCELLATION OF CATCH REPORT IN ANNEX II.F TO THE CEM, AS REFERRED TO IN ARTICLE 25(6) AND (7) OF REGULATION (EU) 2019/833

“CANCEL” report

Format specifications when sending reports from FMC to NAFO (XNW) see also Annex II.D.A, II.D.B, II.D.C and II.D.D.1

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

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

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

34. FORMAT FOR DATA EXCHANGE IN ANNEX II.E TO THE CEM, AS REFERRED TO IN ARTICLE 26(9)(B) OF REGULATION (EU) 2019/833

VMS Data Format

“Entry”, “Position” and “Exit” messages

Format specifications when sending reports from FMC to NAFO (XNW) see also Annex II.D.A, II.D.B, II.D.C and II.D.D.1 of the CEM

Data Element	Field Code	Mandatory / Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination; “XNW” for NAFO
From	FR	M	Message detail; Name of transmitting Party (ISO-3)
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; message types, ENT, POS or EXI <ul style="list-style-type: none"> i. “ENT”, for first VMS position transmitted by each vessel upon entering the Regulatory Area as detected by the FMC of the Contracting Party; ii. “POS”, for every subsequent VMS position transmitted by each vessel from within the Regulatory Area; iii. “EXI”, for first VMS position transmitted by each vessel upon exiting the Regulatory Area as detected by the FMC of the Contracting Party;
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Sequence Number	SQ	O	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Contracting Party Internal Reference Number	IR	O	Vessel registration detail. Unique Member State vessel number as ISO-3 flag State code followed by number
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude (decimal)	LT	M ¹	Activity detail; Latitude at the fixing of the position transmitted from the vessel
Longitude (decimal)	LG	M ¹	Activity detail; Longitude at the fixing of the position transmitted from the vessel
Speed	SP	M	Activity detail; Speed at the fixing of the position transmitted from the vessel
Course	CO	M	Activity detail; Course at the fixing of the position transmitted from the vessel
Date	DA	M	Message detail; UTC date of the fixing of the position transmitted from the vessel

Time	TI	M	Message detail; UTC time of the fixing of the position transmitted from the vessel
End of record	ER	M	System detail; indicates end of the record

1 Optional for "EXI" messages.

“Manual” Position Report

Format specifications when sending reports from FMC to NAFO (XNW) see also Annex II.D.A, II.D.B, II.D.C and II.D.D.1

Data Element	Field Code	Mandatory / Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination; “XNW” for NAFO
From	FR	M	Message detail; Name of transmitting Party (ISO-3)
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; message type; “MAN” for reports communicated by vessels with a defective satellite tracking device in accordance with Article 29.8. of the CEM
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Sequence Number	SQ	O	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Contracting Party Internal Reference Number	IR	O	Vessel registration detail. Unique Member State vessel number as ISO-3 flag State code followed by number
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude	LA	M	Activity detail; Latitude at the fixing of the position transmitted from the vessel
Longitude	LO	M	Activity detail; Longitude at the fixing of the position transmitted from the vessel
Speed	SP	M	Activity detail; Speed at the fixing of the position transmitted from the vessel
Course	CO	M	Activity detail; Course at the fixing of the position transmitted from the vessel
Date	DA	M	Message detail; UTC date of the fixing of the position transmitted from the vessel
Time	TI	M	Message detail; UTC time of the fixing of the position transmitted from the vessel
End of record	ER	M	System detail; indicates end of the record

35. OBSERVER REPORT IN ANNEX II.M TO THE CEM, AS REFERRED TO IN ARTICLE 27(11)(A) OF REGULATION (EU) 2019/833

Standardized Observer Report Template

Part 1. Fishing Trip and Gear Information

1A. Fishing Trip

Vessel Call Sign	
Vessel Name	
Flag State	
Trip Number	
Fishing Master's Name	
Number of Crew	
Observer's Name	
Observation Date Started	
Observation Date Ended	
Date of Report	
Vessel Length (m)	
Vessel Type	
Vessel Gross Tonnage	
Engine Power (indicate HP or KW)	
Frozen Hold Capacity (m ³)	
Fish Meal Hold Capacity (m ³)	
Other Hold Capacity (m ³)	
Directed Species	
NAFO Division/s Visited	
Date of Entry into NRA	
Date of Exit from NRA	
Port of Landing	
Other Area/s Visited	
Comments	

1B. Trawl Gear Information

Trawl Gear Information																		
Gear #	Gear Type	Gear Make	Wings			Body			Mesh Size (mm)			Lengthening Piece			Codend	Attachments	Grate Spacing	Straps
			High	Low	Average	High	Low	Average	High	Low	Average	High	Low	Average				

Part 3. Compliance Information

Enter observation on:

- (1) Discrepancies between logbook entries and observer's estimates.
- (2) Functional of satellite tracking device.
- (3) Any other observation.

Part 4. Effort and Catch Summary

4A. Effort Summary

Effort Summary Table									
NAFO Division	Gear #	Directed Species	Date		# of hauls	Depth (m)		# Hours fished	# Fishing Days
			Start	Finish		Minimum	Maximum		

4B. Catch Summary

Trip Catch Summary (catch by Division and Species)				
NAFO Division	Species	Catch (kg)		
		Retained	Discarded	Total

Part 5. Length Frequency Form

Length Frequency		Trip Number:	
Species Code:		Tow/Set/Haul #:	
Sample Type:		Measure Type:	
Meas. Convention		Total Measured:	
Sample Wt.:		Catch Weight:	
Gear Type:		Gear Number:	

sex:

sex:

Tally		#	Tally		#
0			0		
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
0			0		
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
0			0		
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
0			0		
1			1		
2			2		
3			3		
4			4		

36. REPORT IN ANNEX II.G TO THE CEM TRANSMITTED DAILY BY THE OBSERVER, AS REFERRED TO IN ARTICLE 27(11)(E) OF REGULATION (EU) 2019/833

Observer Report

Data Element	Code	Mandatory / Optional	Requirements for the field
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination, "XNW" for NAFO
Sequence Number	SQ	M	Message detail; message serial number in current year
Type of Message	TM	M	Message detail; message type, "OBR" as Observer report
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Fishing Gear	GE	M	Activity detail; FAO code for fishing gear
Directed Species ⁶	DS	M	Activity detail; FAO species code
Mesh Size	ME	M	Activity detail; average mesh size in millimetres
Relevant Area	RA	M	Activity detail; NAFO Division
Daily Catches species live weight	CA	M M	Activity detail; catch retained on board by species and by Division since last OBR report in kilograms rounded to the nearest 100 kilograms. Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space, e.g. //CA/speciesspaceweightspacspeciespaceweightspacspeciesp aceweight//
Discarding species live weight	RJ	M ¹	Activity detail; Catch discarded by species and by Division since last OBR report, in kg rounded to the nearest 100 kg. Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space, e.g. //RJ/speciesspaceweightspacspeciespaceweightspacspeciesp aceweight//
Undersize species live weight	US	M ¹	Activity detail; Undersize catch by species and by Division since last OBR report, in kg rounded to the nearest 100 kg. Allow for several pairs of fields, consisting of species (FAO 3 alpha codes) + live weight in kilograms (until 9 digits), with each field separated by a space, e.g. //US/speciesspaceweightspacspeciespaceweightspacspeciesp aceweight//
Logbook	LB	M	Activity detail; "Yes" or "No" ²
Production	PR	M	Activity detail; code for the production. See Annex II.K of the CEM
Hails	HA	M	Activity detail; observers verification if the reports made by the captain are correct, "Yes" or "No" ³
Apparent Infringements	AF	M	Activity detail; "Yes" or "No" ⁴
Observer Name	ON	M	Message detail; name of the observer signing the report
Date	DA	M	Message detail; date of transmission
Free Text	MS	O ⁵	Activity detail; for further comments by the observer
Time	TI	M	Message detail; time of transmission

End of record	ER	M	System detail; indicates end of the record
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- 1 Only to be transmitted if relevant.
- 2 "Yes" if the observer approves the Logbook entries by the captain.
- 3 "Yes" if the observer approves the Hails transmitted by the captain.
- 4 "Yes" if an infringement is observed.
- 5 Mandatory if "LB" = "No", or "HA" = "No", or "AF" = "Yes".
- 6 Directed species is the species which represents the greatest catch for that day.

37. RULES ON CONFIDENTIALITY IN ANNEX II.B TO THE CEM, AS REFERRED TO IN ARTICLE 28(10) AND ARTICLE 43 OF REGULATION (EU) 2019/833

Rules on Confidentiality

**PROVISIONS ON SECURE AND CONFIDENTIAL TREATMENT
OF ELECTRONIC REPORTS AND MESSAGES TRANSMITTED
IN ACCORDANCE WITH ARTICLES 28-29 OF THE CONSERVATION
AND ENFORCEMENT MEASURES**

(1) Field of application

The provisions set out below shall apply to all electronic reports and messages transmitted and received in accordance with Articles 28-29 of the CEM, hereinafter referred to as “reports and messages”.

(2) General Provisions

- (a) The Executive Secretary and the appropriate authorities of Contracting Parties transmitting and receiving reports and messages shall take all necessary measures to comply with the security and confidentiality provisions set out in sections 3 and 4.
- (b) The Executive Secretary informs all Contracting Parties of the measures taken in the Secretariat to comply with these security and confidentiality provisions.
- (c) The Executive Secretary takes all the necessary steps to ensure that the requirements pertaining to the deletion of reports and messages handled by the Secretariat are complied with.
- (d) Member States shall guarantee the Executive Secretary the right to obtain as appropriate, the rectification of reports and messages or the erasure of reports and messages the processing of which does not comply with the provisions of the CEM.
- (e) Notwithstanding the provisions in Article 29.10(b)-(d) of the CEM, the NAFO Commission may instruct the Executive Secretary not to make available the reports and messages received under Article 28 and 29 of the CEM to a Contracting Party where it is established that the Member State in question has not complied with these security and confidentiality provisions.

(3) Provisions on Confidentiality

- (a) Reports and messages shall be used only for the purposes stipulated in the CEM. No report or message referred to in section 1 shall be kept in a computer database at the Secretariat unless explicitly provided for in the CEM.
- (b) Each inspecting Member State shall make available reports and messages only to their means of inspection and their inspectors assigned to the Scheme of Joint International Inspection and Surveillance. Reports and messages shall be transmitted to the inspection platforms and inspectors not more than 48 hours prior to entry into the Regulatory Area.

- (c) The Executive Secretary deletes all the original reports and messages referred to in section 1 from the database at the Secretariat by the end of the first calendar month following the year in which the reports and messages have originated. Thereafter the information related to the catch and movement of the fishing vessels shall only be retained by the Executive Secretary, after measures have been taken to ensure that the identity of the individual vessels can no longer be established.
 - (d) The Executive Secretary does not make available reports and messages to other parties than those specified explicitly in Article 29.10(b)-(d) of the CEM.
 - (e) Inspecting Member State may retain and store reports and messages transmitted by the Secretary until 24 hours after the vessels to which the reports and messages pertain have departed from the Regulatory Area without re-entry. Departure is deemed to have been effected six hours after the transmission of the intention to exit from the Regulatory Area.
- (4) Provisions on security
- (a) Overview

Inspecting Member State, the Commission (or the body designated by the Commission) and the Secretariat shall ensure the secure treatment of reports and messages in their respective electronic data processing facilities, in particular where the processing involves transmission over a network. Member State, the Commission (or the body designated by the Commission), and the Secretariat must implement appropriate technical and organizational measures to protect reports and messages against accidental or unlawful destruction or accidental loss, alteration, unauthorized disclosure or access, and against all inappropriate forms of processing.

The following security issues must be addressed from the outset:

 - System access control:
 - The system has to withstand a break-in attempt from unauthorized persons.
 - Authenticity and data access control:
 - The system has to be able to limit the access of authorized parties to a predefined set of data only.
 - Communication security:
 - It shall be guaranteed that reports and messages are securely communicated.
 - Data security:
 - It has to be guaranteed that all reports and messages that enter the system are securely stored for the required time and that they will not be tampered with.
 - Security procedures:

- Security procedures shall be designed addressing access to the system (both hardware and software), system administration and maintenance, backup and general usage of the system.

Having regard to the state of the art and the cost of their implementation, such measures shall ensure a level of security appropriate to the risks represented by the processing of the reports and the messages.

Security measures are described in more detail in the following paragraphs.

(b) System Access Control

For their main computer systems the Member State and the Secretariat shall aim to meet the criteria of a C2-level trusted system, (as described in Section 2.2 of the U.S. Department of Defence Trusted Computer System Evaluation Criteria (TCSEC), DOD 5200.28-STD, December 1985).

The following features are some of the ones provided by a C2-level trusted system:

- A stringent password and authentication system. Each user of the system is assigned a unique user identification and associated password. Each time the user logs on to the system he/she has to provide the correct password. Even when successfully logged on the user only has access to those and only those functions and data that he/she is configured to have access to. Only a privileged user has access to all the data.
- Physical access to the computer system is controlled.
- Auditing; selective recording of events for analysis and detection of security breaches.
- Time-based access control; access to the system can be specified in terms of times-of-day and days-of-week that each user is allowed to login to the system.
- Terminal access control; specifying for each workstation which users are allowed to access.

(c) Authenticity and Data Access Security

Data exchange protocols for electronic transmission of reports and messages between Member State, the NAFO Commission and the Secretariat shall be duly tested by the Secretariat and approved by the NAFO Commission. Electronic transmission is subject to security procedures laid down in this Annex.

(d) Communication Security

Appropriate encryption protocols duly tested by the Secretariat and approved by the NAFO Commission shall be applied to ensure confidentiality and authenticity. Key management policy shall be in place to support the use of cryptographic techniques. In particular, the integrity of the PKI (public key infrastructure) will be guaranteed by ensuring that digital certificates correctly identify and validate the party submitting the information.

(e) Data Security

Access limitation to the data shall be secured via a flexible user identification and password mechanism. Each user shall be given access only to the data necessary for his task.

(f) Security Procedures

Each Member State, the Commission (and body designated by the Commission) and the Executive Secretary shall nominate a security system administrator. The security system administrator shall review the log files generated by the software, properly maintain the system security, restrict access to the system as deemed needed and act as a liaison with the Secretariat in order to solve security matters.

38. SURVEILLANCE REPORT FORM IN ANNEX IV.A TO THE CEM, AS REFERRED TO IN ARTICLE 30(1)(A) AND ARTICLE 45(A) OF REGULATION (EU) 2019/833

Surveillance Report Form

1. OFFICIAL

Name	
Document Identity	
Contracting Party	

2. CONTEXT OF SIGHTING

Aerial sightings	Identification/Call Sign of the Surveillance aircraft		
	Patrol commenced in NRA at position	(Lat/Long) (date/time UTC)	
	Patrol terminated in NRA at position	(Lat/Long) (date/time UTC)	
	Equipment used in Determining Position		
	Weather Conditions	Wind Direction/Speed	
		Sea State	
		Visibility	

Non-aerial sightings	Port/place of First Identification	(Lat/Long)
	Position when First Identification	
	Date/Time-UTC of First Identification	

3. VESSEL SIGHTED

Member State	
Vessel Name, International Radio Call Sign (IRCS), Side Number, IMO Number	
Other Identification Features (Type of vessel, Color of hull, Superstructure, etc)	
Vessel Activity	
Fishing Gear used	
Course and Speed	

4. DETAILS OF IMAGES RECORDED (must be provided consistent with the CEM)

Image Number	Date and Time	Position	Fishing Vessel Activity	Comments
1.				
2.				
3.				

5. DETAILS OF OBSERVATIONS

Reason for suspecting an offense to the NAFO CEM	
Method used to evaluate the volume of catch observed	
Method used to evaluate the catch composition observed	
Other	

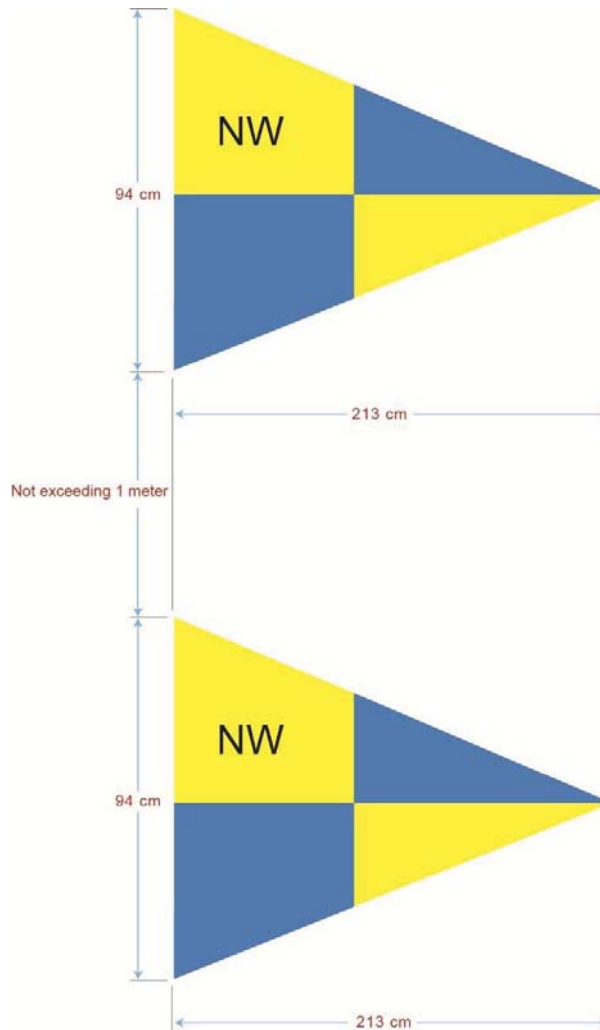
Date

Name of Official:

Signature of the official

39. **IMAGE OF PENNANT IN ANNEX IV.E TO THE CEM, AS REFERRED TO IN ARTICLE 31(B) OF REGULATION (EU) 2019/833**

NAFO Inspection Pennants



Legend:

– Not exceeding 1 meter

Pennants to be displayed by a NAFO inspection vessel. A boarding vessel shall display one pennant, which may be half-size.

40. RULES ON PROVISION OF BOARDING LADDER IN ANNEX IV.G TO THE CEM, AS REFERRED TO IN ARTICLE 32(C) OF REGULATION (EU) 2019/833

Construction and Use of Boarding Ladders

- (1) A boarding ladder shall be provided which shall be efficient for the purpose of enabling inspectors to embark and disembark safely at-sea. The boarding ladder shall be kept clean and in good order.
- (2) The ladder shall be positioned and secured so that:
 - (a) it is clear of any possible discharges from the vessel;
 - (b) it is clear of the finer lines and as far as practicable in the midlength of the vessel;
 - (c) each step rests firmly against the vessel's side.
- (3) The steps of the boarding ladder shall:
 - (a) be of hardwood or other material of equivalent properties, made in one piece free of knots; the four lowest steps may be made of rubber of sufficient strength and stiffness, or of other suitable material of equivalent characteristics;
 - (b) have an efficient non-slip surface;
 - (c) be not less than 480 mm long, 115 mm wide, and 23 mm in thickness, excluding any non-slip device or grooving;
 - (d) be equally spaced not less than 300 mm or more than 380 mm apart;
 - (e) be secured in such 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. When any replacement step is secured to the side ropes of the boarding ladder by means of grooves in the side of the step, such grooves shall be in the longer sides of the steps.
- (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 left uncovered by any other material and be continuous with no joints below the top step; two main ropes, properly secured to the vessel 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, free of knots and between 1,8 and 2 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 nine steps.
- (7) Means shall be provided to ensure safe and convenient passage for inspectors embarking on or disembarking from the vessel between the head of the boarding 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 vessel not less than 0,70 m or more than 0,80 m apart. Each stanchion shall be rigidly secured to the vessel'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 top of the bulwark.

- (8) Lighting shall be provided at night so that both the boarding ladder overside and also the position where the inspector boards the vessel 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.
- (9) Means shall be provided to enable the boarding ladder to be used on either side of the vessel. The inspector in charge may indicate which side he would like the boarding ladder to be positioned.
- (10) The rigging of the ladder and the embarkation and disembarkation of an inspector shall be supervised by a responsible officer of the vessel. The responsible officer shall be in radio contact with the bridge.
- (11) Where on any vessel constructional features such as rubbing bands would prevent the implementation of any of these provisions, special arrangements shall be made to ensure that inspectors are able to embark and disembark safely.

41. INSPECTION REPORT IN ANNEX IV.B TO THE CEM, AS REFERRED TO IN ARTICLE 33(1), ARTICLE 34(2) (A) AND ARTICLE 45(D) OF REGULATION (EU) 2019/833

Report of Inspection

THE NORTHWEST ATLANTIC FISHERIES ORGANIZATION
(Inspector: Please use CAPITAL BLOCK LETTERS in BLACK PEN)

1. ASSIGNED INSPECTION VESSEL

1.1 NAME	
1.2 REGISTRATION	
1.3 International Radio Call Sign (IRCS)	
1.4 Port of registry	

2. AUTHORIZED INSPECTOR(s)

NAME	CONTRACTING PARTY

3. TRAINEE INSPECTOR

NAME	CONTRACTING PARTY

4. INFORMATION ON VESSEL INSPECTED

Contracting Party/Member State and Port of Registry			
Vessel name			
External number			
IMO Number			
International Radio Call Sign (IRCS)			
Owner's name and address			
Time/Position as determined by the inspection vessel	UTC	Lat	Long
Time/Position as determined by the master of the inspected vessel	UTC	Lat	Long
Master's Name and Address			

5. DATE AND TIMES THE INSPECTION COMMENCED AND FINISHED

DATE		
TIME OF ARRIVAL ON BOARD (UTC)		
TIME OF DEPARTURE (UTC)		
POSITION AT DEPARTURE	Lat	Long

6. VERIFICATION

Vessel Documentation	Checked Y/N
Certified Drawings or description of fish room and freezers kept on board:	Checked Y/N
Accurate Up to date Stowage Plan kept on board:	Checked Y/N

Vessel quota by stock area
Observation by the inspectors, if any:

7. DATE OF LAST SEA INSPECTION:

8. REPORTING OF VESSEL MOVEMENTS/VMS

8.1 FISHING TRIP	First day fished in the RA	Last Position Communicated
DATE		
TIME (UTC)		
LATITUDE		
LONGITUDE		
DAYS in NAFO RA		

8.2 REPORTS/VMS	
VMS transponder installed	Checked Y/N
VMS system operative	Checked Y/N
Are reports communicated (If Yes, note:)	Checked Y/N

9. RECORDING OF FISHING EFFORT AND CATCHES

Fishing Logbook	Checked Y/N
Indicate if Fishing logbook is:	Electronic / Paper
Are recordings made in accordance with Article 28 of and Annex II.A to the CEM:	Checked Y/N
If not, indicate the inaccurate or missing recording (s):	

10. OBSERVER SCHEME

Is there an Observer present on the vessel:	Y/N
Observer's name:	
Observer Contracting Party:	

11. MESH MEASUREMENT - IN MILLIMETERS

11.1 Type of Net:

Codend (inclusive of lengthener(s), if any) - Samples of 20 meshes 100 mm+ _____+:

	Width (Mesh Size)																Average Width	Legal Size		
1 st Net																				
2 nd Net																				
3 rd Net																				
4 th Net																				

Chafer - Samples of ____ meshes

14. RESULT OF INSPECTION OF FISH ON BOARD

14.1 Difference from Logbooks

Comment In the case of a difference between the inspector's estimates of the catches on board and the related summaries of catches from the logbooks, note this difference with the percentage

14.2 Infringements

CEM REFERENCE	NATURE OF INFRINGEMENTS	SEALS AFFIXED (serial number)

I acknowledge being informed about the alleged infringements and, if applicable, the placement of seals to secure evidence

DATE:

SIGNATURE of MASTER

15. COMMENTS AND OBSERVATIONS (additional pages can be added as necessary)

Documents inspected following an infringement

Comments, statements and/or observations by Inspector(s)

Statement of Master's witness(es)

Statements of Second Inspector or Witness

16. SIGNATURE OF INSPECTOR IN CHARGE

17. NAME AND SIGNATURE OF SECOND INSPECTOR OR WITNESS

18. NAME AND SIGNATURE OF MASTER'S WITNESS(ES)

19. ACKNOWLEDGEMENT AND RECEIPT OF REPORT BY THE MASTER (additional pages can be added as necessary)

Comments by the master of vessel

I, the undersigned, master of the vessel....., hereby confirm that a copy of this report has been delivered to me on this date. My signature does not constitute acceptance of any part of the contents of the report.

DATE

SIGNATURE

42. **NAFO INSPECTION SEAL IN THE ANNEX IV.F TO THE CEM, AS REFERRED TO IN ARTICLE 34(1)(D) OF REGULATION (EU) 2019/833**

NAFO Inspection Seal



Legend:

- NAFO Inspection Seal
- Top View
- Side View

The NAFO Inspection Seal shall be as follows:

Name	NAFO INSPECTION SEAL
Mark	"NAFO Inspection No. of six digits"
Material.....	polyethylene recyclable
Colour.....	orange
Melt index.....	6.70 + .60 (by international standard)
Density.....	953 + .003 (by international standard)
Breaking point (load).....	min. 45 kg (t° 20°C)

43. **PORT STATE CONTROL PRIOR REQUEST FORM IN ANNEX II.L TO THE CEM, AS REFERRED TO IN ARTICLE 39(8), ARTICLE 39(13)(A)(III), ARTICLE 40(2) AND ARTICLE 41(1) AND (2) OF REGULATION (EU) 2019/833**

**Port State Control Prior Request Forms
A-PSC-1**

PORT STATE CONTROL FORM – PSC 1									
PART A: To be completed by the Master of the Vessel. Please use black ink									
Name of Vessel:		IMO Number: ¹		Radio Call Sign:		Flag State:			
Email Address:		Telephone Number:		Fax Number:		Inmarsat Number:			
Vessel master's name:		Vessel master's nationality:		Vessel owner:		Certificate of Registry ID:			
Vessel dimensions		Length (m):		Beam (m):		Draft (m):			
Port State:				Port of Landing or Transhipment:					
Reason for Port Entry		Landing: (y/n)		Transhipment: (y/n)		Other: (y/n)			
Last port of call:				Date:					
Estimated Date of Arrival:				Estimated Time (UTC) of Arrival:					
Frozen products only		Fresh products only		Fresh and frozen products					
Total catch on board – all areas							Catch to be landed ²		
Species ³	Product ⁴	Area of catch			Conversion factor	Product weight (kg)	Product weight (kg)		
		NEAFC CA (ICES subareas and divisions)	NAFO RA (Sub Division)	Other areas					
PART B: For official use only – to be completed by the Flag State									
The Flag State of the vessel must respond to the following questions by marking in the box "Yes" or "No"						NEAFC CA		NAFO RA	
						Yes	No	Yes	No
a) The fishing vessel declared to have caught the fish had sufficient quota for the species declared									
b) The quantities on board have been duly reported and taken into account for the calculation of any catch or effort limitations that may be applicable									

c) The fishing vessel declared to have caught the fish had authorisation to fish in the area declared							
d) The presence of the fishing vessel in the area of catch declared has been verified according to VMS data							
Flag State confirmation: I confirm that the above information is complete, true and correct to the best of my knowledge and belief.							
Name and Title:				Date:			
Signature:				Official Stamp:			
PART C: For official use only – to be completed by the Port State Note: NAFO Port State Authorization to use port for landing, transhipment, or other							
Name of Port State:							
Authorisation:		Yes:		No:		Date:	
Signature:				Official Stamp:			
<p>1. Fishing vessels not assigned an IMO number shall provide their external registration number.</p> <p>2. If necessary an additional form or forms shall be used.</p> <p>3. FAO Species Codes – NEAFC Annex V - NAFO Annex I.C of the CEM.</p> <p>4. Product presentations – NEAFC Appendix 1 to Annex IV – NAFO Annex II.K of the CEM.</p>							

B-PSC-2

PORT STATE CONTROL FORM – PSC 2									
PART A: To be completed by the Master of the Vessel. A separate form shall be completed for each donor vessel. Please use black ink									
Name of Vessel:		IMO Number: ¹		Radio Call Sign:		Flag State:			
Email Address:		Telephone Number:		Fax Number:		Inmarsat Number:			
Vessel master's name:		Vessel master's nationality:		Vessel owner:		Certificate of Registry ID:			
Vessel dimensions:		Length (m):		Beam (m):		Draft (m):			
Port State:				Port of Landing or Transhipment:					
Reason for Port Entry		Landing: (y/n)		Transhipment: (y/n)		Other: (y/n)			
Last port of call:		Date:							
Date and location of transhipment:				Transhipment authorization if relevant:					
Estimated Date of Arrival:				Estimated Time (UTC) of Arrival:					
Frozen products only		Fresh products only		Fresh and frozen products					
Catch Information for Donor Vessels *A separate form shall be completed for each Donor Vessel*									
Name of Vessel		IMO Number ¹		Radio Call Sign		Flag State			
Total catch on board – all areas						Catch to be landed²			
Species ³	Product ⁴	Area of catch			Conversion factor	Product weight (kg)	Product weight (kg)		
		NEAFC CA (ICES subareas and divisions)	NAFO RA (Sub Division)	Other areas					
PART B: For official use only - to be completed by the Flag State									
The Flag State of the vessel must respond to the following questions by marking in the box "Yes" or "No"						NEAFC CA		NAFO RA	
						Yes	No	Yes	No
a) The fishing vessel declared to have caught the fish had sufficient quota for the species declared									
b) The quantities on board have been duly reported and taken into account for the calculation of any catch or effort limitations that may be applicable									
c) The fishing vessel declared to have caught the fish had authorisation to fish in the area declared									

d) The presence of the fishing vessel in the area of catch declared has been verified according to VMS data							
Flag State confirmation: I confirm that the above information is complete, true and correct to the best of my knowledge and belief.							
Name and Title:						Date:	
Signature:				Official Stamp:			
PART C: For official use only - to be completed by the Port State							
Note: NAFO Port State Authorization to use port for landing, transshipment, or other							
Name of Port State:							
Authorisation:		Yes:		No:		Date:	
Signature:				Official Stamp:			
<p>1. Fishing vessels not assigned an IMO number shall provide their external registration number.</p> <p>2. If necessary an additional form or forms shall be used.</p> <p>3. FAO Species Codes – NEAFC Annex V - NAFO Annex II of the CEM.</p> <p>4. Product presentations – NEAFC Appendix 1 to Annex IV – NAFO Annex II.K of the CEM.</p>							

44. ANNEX IV.H TO THE CEM ON INSPECTIONS, AS REFERRED TO IN ARTICLE 39(11) OF REGULATION (EU) 2019/833

Principles for Inspections

Inspectors shall:

- (a) verify, to the extent possible, that the vessel identification documentation on board and information relating to the owner of the vessel is true, complete and correct, including through appropriate contacts with the flag State or international records of vessels if necessary;
- (b) verify that the vessel's flag and markings (e.g. name, external registration number, International Maritime Organization (IMO) ship identification number, international radio call sign and other markings, main dimensions) are consistent with information contained in the documentation;
- (c) review all other relevant documentation and records held onboard, including, to the extent possible, those in electronic format and vessel monitoring system (VMS) data from the flag State or RFMOs. Relevant documentation may include logbooks, catch, transshipment and trade documents, data collected by the observer on board, crew lists, stowage plans and drawings, descriptions of fish holds, and documents required pursuant to the Convention on International Trade in Endangered Species of Wild Fauna and Flora;
- (d) verify, to the extent possible, that the authorizations for fishing activities are true, complete, correct and consistent with the information provided in accordance with the CEM provisions including, but not limited to, Articles 25, 44, 45 and 51 of the CEM;
- (e) determine, to the extent possible, whether any fishery resources on board were harvested in accordance with applicable authorizations for the vessel;
- (f) examine any fishery resources on board the vessel, including by sampling, to determine its quantity and composition. In doing so, inspectors may open containers where the fishery resources have been pre-packed and move the catch or containers to ascertain the integrity of fish holds. Such examination may include inspections of product type and determination of nominal weight;
- (g) examine, to the extent possible, all relevant fishing gear onboard, including any gear stowed out of sight as well as related devices, and to the extent possible, verify that they are in conformity with the conditions of the authorizations. The fishing gear shall, to the extent possible, also be checked to ensure that features such as the mesh and twine size, devices and attachments, dimensions and configuration of nets, pots, dredges, hook sizes and numbers are in conformity with applicable regulations and that the markings correspond to those authorized for the vessel;
- (h) evaluate whether there is clear evidence for believing that a non-Contracting Party vessel has engaged in IUU fishing activities; and
- (i) arrange, where necessary and possible, for translation of relevant documentation.

Additionally inspections shall be conducted in a fair, transparent and non-discriminatory manner and shall not constitute harassment of any vessel. Inspectors

shall not interfere with the Master's ability to communicate with the authorities of the flag State Contracting Party or the flag Member State.