Northwest Atlantic



Fisheries Organization

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Recommendations of the

Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM)

The NAFO Joint Fisheries Commission-Scientific Council Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM) met via WebEx on 14–16 July 2021 and 20-21 July 2021 (COM-SC Doc. 21-03) and agreed on the following recommendations:

The WG-EAFFM:

In regards to SAI work,

1. Recommends that the Commission direct the Secretariat to share its work on bottom fishing impacts along with any potential up-date of the SAI outcome with the UNGA VME review in 2022

In regards to Seamounts,

Welcomes the recommendation from the SC on the proposal on revision boundaries of seamount closures and recommend the proposal be forwarded to the Commission for consideration, noting that some Contracting Parties need additional time for consultation on the revision with scientists and stakeholders.

In regards to Taxa Changes,

3. Recommends that the Commission adopt the Scientific Council recommended changes to Annex I.E.6 "VME Indicator Species" of the NAFO CEM (Annex 6).

In regards to Roadmap/Workshop

- 4. Recommends, given the long-term importance and ground-breaking nature of this work, that the Commission request Scientific Council, in consultation with WG-EAFFM, engage an external independent panel to conduct a scientific review of the NAFO Roadmap as it applies to estimating fisheries production and total catches (Tier 1) whilst considering a full range of species interactions (Tier 2). The outcomes of this would be available in advance of the planned workshop in 2022.
- 5. Recommends that the Commission strongly encourage participation by Contracting Parties and observers at both the open dialogue meeting and the subsequent WG-EAFFM Workshop.
- 6. Recommends that the Commission request the participation of WG-RBMS representatives and co-Chairs at both the open dialogue meeting and the subsequent WG-EAFFM Workshop, including potentially co-chairing the meetings, as many of these issues could overlap with its work, particularly the review of the PA Framework.

In regards to the review of NAFO CEM Chapter 2,

- 7. Re-iterates its prior recommendation that the Commission request the Scientific Council to review the effectiveness of NAFO CEM, Chapter 2 from a scientific and technical perspective and to report back at 2022 WG-EAFFM meeting.
- 8. Recommends that the Commission request STACTIC and the Secretariat to work with NAFO fishery observers to determine if, and how, the current VME identification guides can be improved to assist in VME species identification.
- Recommends that the Commission request STACTIC, for WG-EAFFM's 2022 meeting, to develop NAFO CEM text requiring the Secretariat to inform those Contracting Parties with an inspection presence when vessels are operating in closed areas at speeds indicating fishing may be occurring.

In regards to VMEs,

- 10. Recommends that the Commission extend the current closures in Chapter 2 of the NAFO CEM for five (5) years. Consequently,
 - a. Article 17.1 of the NAFO CEM should read: <u>Until 31 December 2021</u> 2026, no vessel shall engage in bottom fishing activities in any of the areas illustrated in Figure 3 and defined by connecting the following coordinates specified in Table 5 in numerical order and back to coordinate 1.
 - b. Article 17.2 of the NAFO CEM should read: <u>Until 31 December 2924 2026</u>, no vessel shall engage in bottom fishing activities in the area of Division 30 illustrated in Figure 4 and defined by connecting the coordinates specified in Table 6 in numerical order and back to coordinate 1.
 - c. Article 17.3 of the NAFO CEM should read: <u>Until 31 December 2924 2026</u>, no vessel shall engage in bottom fishing activities in the areas 1-13 illustrated in Figure 5 and defined by connecting the coordinates specified in Table 7 in numerical order and back to coordinate 1.
- 11. Additional VME protections are needed, therefore, recommends that the Commission consider the SC's advice regarding additional area-based management measures to protect VMEs from SAI, and consider adopting additional measures if proposed at the 2021 Annual Meeting.

In regards to ABNJ Deep Sea Fisheries Project,

12. Recommends the Commission support the ABNJ Deep Sea Fisheries Project, including offering in-kind support from NAFO.

In regards to Sargasso Sea Commission,

13. Recommends the Commission support the development of an MOU between the Sargasso Sea Commission Secretariat and NAFO Secretariat.



Annex 6. Updated List of VME Indicator Species for inclusion in Part. VI, Annex I.E of the NCEM

List of VME Indicator Species

	Common Name and FAO ASFIS 3- ALPHA CODE	Taxon	Family	FAO ASFIS 3-ALPHA CODE
		Asconema foliatum	Rossellidae	ZBA
		Aphrocallistes beatrix	Aphrocallistidae	
		Asbestopluma (Asbestopluma) ruetzleri	Cladorhizidae	ZAB (Asbestopluma)
		Axinella sp.	Axinellidae	
		Chondrocladia grandis	Cladorhizidae	ZHD (Chondrocladia)
		Cladorhiza abyssicola	Cladorhizidae	ZCH (Cladorhiza)
		Cladorhiza kenchingtonae	Cladorhizidae	ZCH (Cladorhiza)
		Craniella spp.	Tetillidae	ZCS (Craniella spp.)
		Dictyaulus romani	Euplectellidae	ZDY (Dictyaulus)
		Esperiopsis villosa	Esperiopsidae	ZEW
	Large-Sized Sponges (PFR - Porifera)	Forcepia spp.	Coelosphaeridae	ZFR
		Geodia barretti	Geodiidae	
		Geodia	Geodiidae	
		macandrewii Geodia parva	Geodiidae	
		Geodia phlegraei	Geodiidae	
			Chalinidae	ZHL
		Haliclona sp.		
		Iophon piceum	Acarnidae	WJP
		Isodictya palmata	Isodictyidae	an n
		Lissodendoryx (Lissodendoryx) complicata	Coelosphaeridae	ZDD
		Mycale (Mycale) lingua	Mycalidae	YHL (Mycale lingua)
		Mycale (Mycale) loveni	Mycalidae	
		Phakellia sp.	Axinellidae	
		Polymastia spp.	Polymastiidae	ZPY
		Stelletta normani	Ancorinidae	WSX (Stelletta)
		Stelletta tuberosa	Ancorinidae	WSX (Stelletta)
		Stryphnus fortis	Ancorinidae	WPH
		Thenea muricata	Pachastrellidae	ZTH (Thenea)
		Thenea valdiviae	Pachastrellidae	ZTH (Thenea)



Common Name and FAO ASFIS 3- ALPHA CODE	Taxon	Family	FAO ASFIS 3-ALPHA CODE
	Weberella bursa	Polymastiidae	ZWB (Weberella spp.)
	Enallopsammia rostrata	Dendrophylliidae	FEY
Stony Corals (CSS -	Lophelia pertusa	Caryophylliidae	LWS
Scleractinia)	Madrepora oculata	Oculinidae	MVI
	Solenosmilia variabilis	Caryophylliidae	RZT
	Stichopathes sp.	Antipathidae	QYX
	Leiopathes cf. expansa	Leiopathidae	
	Leiopathes sp.	Leiopathidae	
	Plumapathes sp.	Myriopathidae	
Black corals (AQZ-Antipatharia)	Bathypathes cf. patula	Schizopathidae	
micipaciiariaj	Parantipathes sp.	Schizopathidae	
	Stauropathes	Schizopathidae	SQW
	=	Schizopathidae	
	punctata Telopathes magnus	Schizopathidae	
	Acanella arbuscula	Isididae	KQL (Acanella)
	Anthothela	Anthothelidae	WAG
	grandiflora	Cl "I	DIN
Small Gorgonians	Chrysogorgia sp.	Chrysogorgiidae	FHX
(GGW)	Metallogorgia melanotrichos	Chrysogorgiidae	QFY (Chrysogorgiidae)
	Narella laxa	Primnoidae	QON (Primnoidae)
	Radicipes gracilis	Chrysogorgiidae	CZN
	Swiftia sp.	Plexauridae	
	Acanthogorgia	Acanthogorgiidae	AZC
	armata	Primnoidae	OON (Drimpoides)
	Calyptrophora sp. Hemicorallium	Coralliidae	QON (Primnoidae)
	bathyrubrum	Coraillidae	COR (Corallium)
Large Gorgonians (GGW)	Hemicorallium bayer	Coralliidae	COR (Corallium)
	Iridogorgia sp.	Chrysogorgiidae	QFY (Chrysogorgiidae)
	Keratoisis cf. siemensii	Isididae	IQO (Isididae)



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	Keratoisis grayi	Isididae	IQO (Isididae)
	Lepidisis sp.	Isididae	QFX (Lepidisis)
	Paragorgia arborea	Paragorgiidae	BFU
	Paragorgia johnsoni	Paragorgiidae	BFV
	Paramuricea grandis	Plexauridae	PZL (Paramuricea)
	Paramuricea placomus	Plexauridae	PZL (Paramuricea)
	Paramuricea spp.	Plexauridae	PZL (Paramuricea)
	Parastenella atlantica	Primnoidae	QON (Primnoidae)
	Placogorgia sp.	Plexauridae	
	Placogorgia terceira	Plexauridae	
	Primnoa resedaeformis	Primnoidae	QOE
	Thouarella (Euthouarella) grasshoffi	Primnoidae	QON (Primnoidae)
	Anthoptilum grandiflorum	Anthoptilidae	AJG (Anthoptilum)
	Distichoptilum gracile	Protoptilidae	WDG
	Funiculina quadrangularis	Funiculinidae	FQJ
	Halipteris cf. christii	Halipteridae	ZHX (Halipteris)
	Halipteris finmarchica	Halipteridae	HFM
Sea Pens (NTW – Pennatulacea)	Halipteris sp.	Halipteridae	ZHX (Halipteris)
	Kophobelemnon stelliferum	Kophobelemnidae	KVF
	Pennatula aculeata	Pennatulidae	QAC
	Ptilella spp.	Pennatulidae	
	Pennatula sp.	Pennatulidae	
	Protoptilum carpenteri	Protoptilidae	
	Umbellula lindahli	Umbellulidae	OJZ (Ombellula spp)
	Virgularia mirabilis	Virgulariidae	
Tube-Dwelling Anemones	Pachycerianthus borealis	Cerianthidae	WQB



Common Name and FAO ASFIS 3- ALPHA CODE	Taxon	Family	FAO ASFIS 3-ALPHA CODE		
Erect Bryozoans (BZN - Bryozoa)	Eucratea loricata	Eucrateidae	WEL		
	Conocrinus lofotensis	Bourgueticrinidae	WCF		
Sea Lilies (CWD – Crinoidea)	Gephyrocrinus grimaldii	Hyocrinidae			
	Trichometra cubensis	Antedonidae			
Sea Squirts (SSX – Ascidiacea)	Boltenia ovifera	Pyuridae	WBO		
	Halocynthia aurantium	Pyuridae			
Unlikely to be observed in trawls; in situ observations only:					
Large xenophyophores	Syringammina sp.	Syringamminidae			

