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Recommendations from the WG-EAFFM to forward to the NAFO Commission and Scientific Council

The NAFO Joint Fisheries Commission-Scientific Council Working Group on Ecosystem Approach Framework to Fisheries Management (WG-EAFFM) met in August of 2018 (COM-SC Doc. 18-03) and agreed on the following recommendations from the WG-EAFFM to the NAFO Commission and Scientific Council:

The WG-EAFFM **recommends** that:

- In relation to the evaluation of impact of scientific trawl surveys on VMEs in closed areas, Contracting Parties consider possible options for non-destructive regular monitoring within closed areas, bearing in mind cost implications and the utility of data collected for provision of advice.
 - In relation to implementation of the Ecosystem Approach Roadmap, WG-EAFFM continue to make progress on the Ecosystem Approach Roadmap, acknowledging the general concepts of Ecosystem Production Potential (EPP) as a useful step towards implementation of EAFFM.
 - The Scientific Council continue to refine its work under the ecosystem approach road map, including testing the reliability of the ecosystem production potential model and other related models, and to report on these results to the WG-EAFFM to further develop how it may apply to management decisions.
- WG-EAFFM work to reconsider the terminology used in the Ecosystem Summary Sheets in order to avoid potential confusion with standard terminology in fisheries management, as well as considering their potential ability to inform management decisions.
- In relation to the area #14, the Scientific Council include it in its review of closed areas in 2020, irrespective of the decision on continuing or not this closure after 2018, which remains to be considered by the Commission.
- In relation to the assessment of significant adverse impacts (SAI), SC maintain efforts to assess
 all of the six FAO criteria, including the three FAO functional SAI criteria (Article 18 of the FAO
 international Guidelines for the management of deep-sea fisheries in the High Seas) which could
 not be evaluated in the current assessment.
- In relation to FAO three letter codes for VME indicator species, the existing taxa list in Annex I.E. Part VI of the NCEM be updated with the FAO ASFIS codes as listed in Annex 4 of this report.
 - The Scientific Council review the proposed revisions to Annex I.E. Part VI as reflected in COM-SC EAFFM-WP 18-01, and to compare the consistency of the list of taxa in that Annex to the VME species guide with a view to recommend updates, as necessary.
 - The Secretariat to work with the FAO to develop new ASFIS codes, as necessary, for those taxa listed in Annex 1.E Part VI.

Annex 4. FAO ASFIS 3-alpha FAO codes of VME indicator species (from COM-SC Doc 18-03)

The following table lists the current NAFO VME Indicator Species as found in Annex I.E Part VI. of the NAFO CEM with the available ASFIS 3-Alpha codes.

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

	Corallium bayeri		
	doraman bayeri	Coralliidae	
	Keratoisis ornata (KRY)	Isididae	
	Keratoisis sp.	Isididae	
	Lepidisis spp. (OFX)	Isididae	
	Paragorgia arborea (BFU)	Paragorgiidae	
	Paragorgia johnsoni (BFV)	Paragorgiidae	
	Paramuricea grandis	Plexauridae	
	Paramuricea glacomus	Plexauridae	
	Paramuricea spp. <u>(PZL)</u>	Plexauridae	
		Plexauridae	
	Placogorgia sp.	Plexauridae	
	Placogorgia terceira	Primnoidae	
	Calyptrophora sp.		
	Parastenella atlantica	Primnoidae	
	Primnoa resedaeformis	D : .1	
	(QOE)	Primnoidae	
	Thouarella grasshoffi	Primnoidae	
Sea pens (NTW)	Anthoptilum grandiflorum	Anthoptilidae	Cnidaria
	Funiculina quadrangularis		
	<u>(FOI)</u>	Funiculinidae	
	Halipteris cf. christii	Halipteridae	
	Halipteris finmarchica (HFM)	Halipteridae	
	Halipteris spp. (ZHX)	Halipteridae	
	Kophobelemnon stelliferum		
	(KVF)	Kophobelemnidae	
	Pennatula aculeata (OAC)	Pennatulidae	
	Pennatula grandis	Pennatulidae	
	Pennatula sp.	Pennatulidae	
	Distichoptilum gracile (WDG)	Protoptilidae	
	Protoptilum sp.	Protoptilidae	
	Umbellula lindahli	Umbellulidae	
	Virgularia cf. mirabilis	Virgulariidae	
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Tube-dwelling anemones	Pachycerianthus borealis	Cerianthidae	Cnidaria
	(WQB)		
Erect bryozoans (BZN)	Eucratea loricata (WEL)	Eucrateidae	Bryozoa
Sea lilies (Crinoids) (CWD)	Trichometra cubensis	Antedonidae	Echinodermata
Sea mies (Grinolas) (GWD)	Conocrinus lofotensis (WCF)	Bourgueticrinidae	Lemmodermata
	Gephyrocrinus grimaldii	Hyocrinidae	
		<u>-</u>	
Sea squirts (SSX)	Boltenia ovifera <mark>(WBO)</mark>	Pyuridae	Chordata
	Halocynthia aurantium	Pyuridae	