



40th ANNUAL MEETING OF NAFO - SEPTEMBER 2018

**Recommendations from the WG-EAFFM
addressed to the NAFO Commission and/or Contracting Parties**

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 addressed to the Commission and/or Contracting Parties.

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 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 [COM-SC Doc 18-03].**



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.

Benthic Invertebrate VME Indicator Species					
Common name of taxonomic group	Known Taxon	Family	Phylum		
Large-sized sponges (SPO)	<i>Iophon piceum</i> (WIP)	Acarnidae	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>Thenea muricata</i>				
	<i>Polymastia</i> spp. (ZPY)	Pachastrellidae			
	<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> spp. (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 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>	Anthoptilidae	Cnidaria
	<i>Funiculina quadrangularis</i> (FOJ)	Funiculinidae	
	<i>Halipterus</i> cf. <i>christii</i>	Halipteridae	
	<i>Halipterus finmarchica</i> (HFM)	Halipteridae	
	<i>Halipterus</i> spp. (ZHX)	Halipteridae	
	<i>Kophobelemnnon stelliferum</i> (KVF)	Kophobelemnidae	
	<i>Pennatula aculeata</i> (QAC)	Pennatulidae	
	<i>Pennatula grandis</i>	Pennatulidae	
	<i>Pennatula</i> sp.	Pennatulidae	
	<i>Distichoptilum gracile</i> (WDG)	Protoptilidae	
	<i>Protoptilum</i> sp.	Protoptilidae	
	<i>Umbellula lindahli</i>	Umbellulidae	
	<i>Virgularia</i> cf. <i>mirabilis</i>	Virgulariidae	
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>	Antedonidae	Echinodermata
	<i>Conocrinus lofotensis</i> (WCF)	Bourgueticrinidae	
	<i>Gephyrocrinus grimaldii</i>	Hyocrinidae	
Sea squirts (SSX)	<i>Boltenia ovifera</i> (WBO)	Pyuridae	Chordata
	<i>Halocynthia aurantium</i>	Pyuridae	