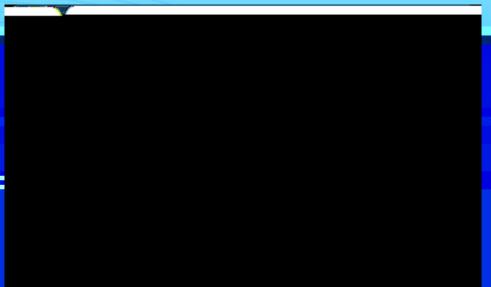
## Outline

About NAFO NAFO's Ecosystem Approach to Fisheries Management NAFO's Precautionary Approach Framework Protection of Vulnerable Marine Ecosystems (VME) Concluding Remarks

#### **NAFO Convention and Regulatory Area**



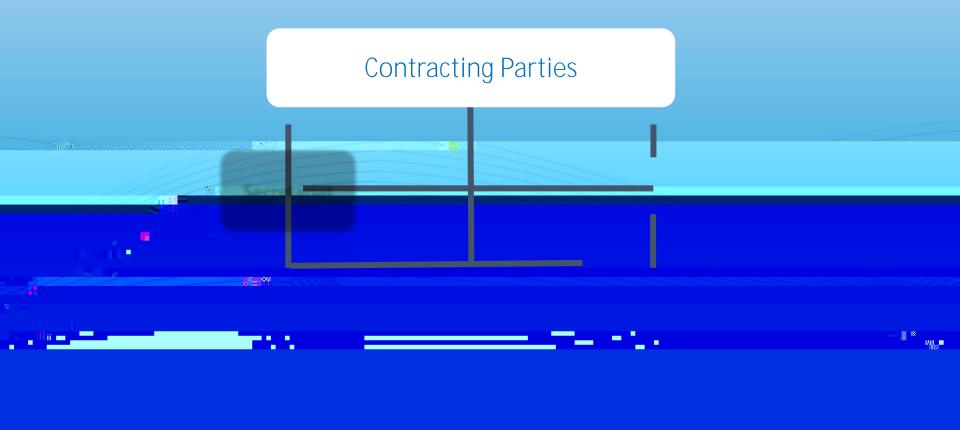
NAFO is the RFMO responsible for managing the fish stocks (except salmon, tuna and sedentary species) in the NW Atlantic outside the EEZs of Coastal States (FAO Statistical Area 21).





IN Workshop – Measures to address the impacts of bottom fishing on vulnerable marine ecosystems and the long-term sustainability of deep-sea fish stocks. Pursuant to General Assembly resolution 76/71. 2 to 3 August 2022, New York, USA

# NAFO Convention Article V





# NAFO's Ecosystem Approach Framework to Fisheries Management



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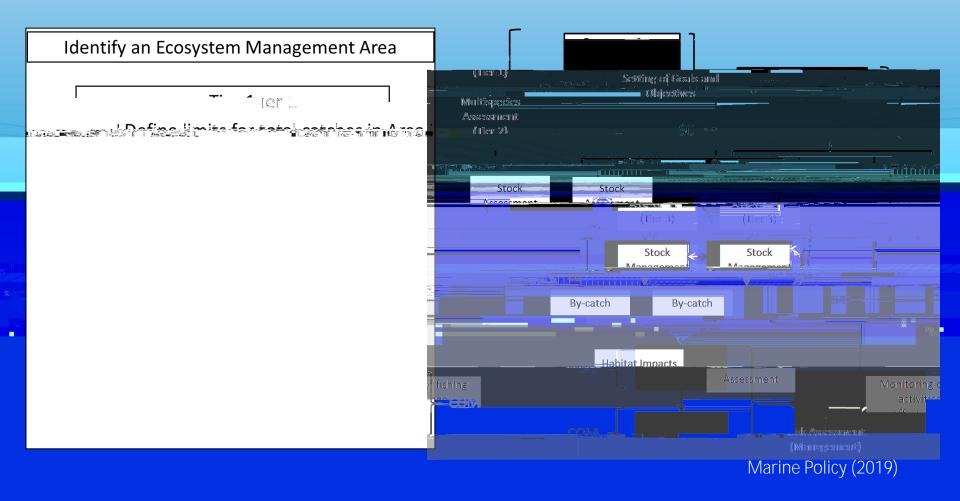


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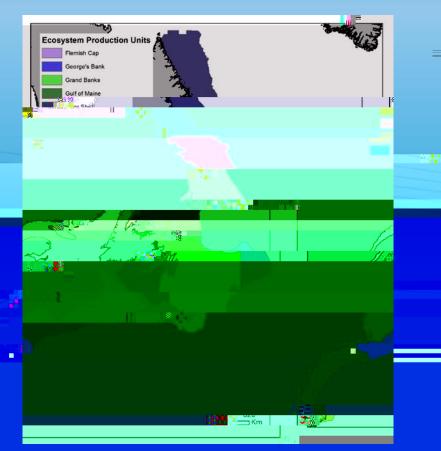




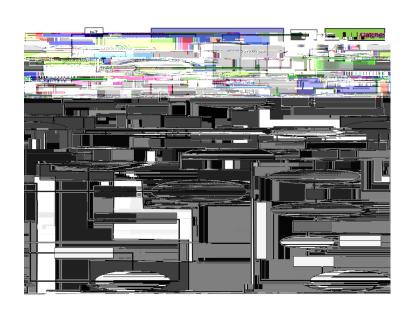
# The NAFO Ecosystem Approach 'Roadmap'



# Tier 1: Ecosystem production model



#### Ecosystem production model

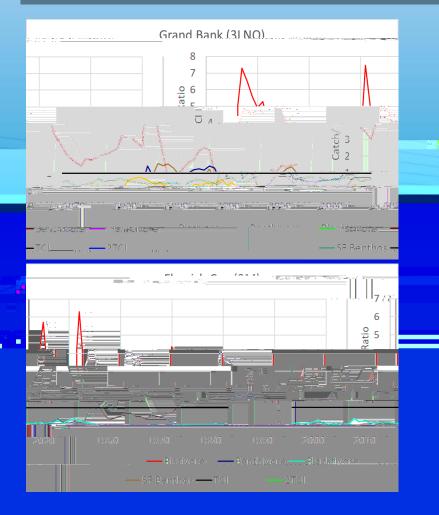


#### Identification of Ecosystem Production Units

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# Tier 1: Ecosystem production model

#### - Catches relative to Total Catch Index (TCI)





# Biomass trends and catch relative to 2 X Total Catch Index.

## The NAFO Ecosystem Approach 'Roadmap' next steps towards implementation

Development of "ecosystem summary sheets" as a means of communicating ecosystem level advice to managers

Ecosystem Approach Workshop 8-12 August 2022 with a goal to develop specific ecosystem level objectives for NAFO for Tiers 1 and 2 of the Roadmap Workshop outcomes to be considered by WG-EAFFM T3-16 August WG-EAFFM Recommendations to Commission September 2022

# NAFO's Precautionary Approach Framework to Fisheries Management

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# PA framework adopted by NAFO for advising on stocks in the NAFO Regulatory Area.



2018 Performance Review noted that implementation of the PA was incomplete with many stocks lacking reference points, and recommended working towards full implementation.

In 2019, the Commission requested Scientific Council (in conjunction with WG-RBMS) to Review the NAFO PA framework.

Scientific Council re-established its Precautionary Approach Working Group (PA-WG)

Initiated a two year project (with EU funding) top review the NAFO PA. Three external experts contracted to provide independent review.

#### Workplan for the revision of the NAFO PA

WG and External Experts PAF Tasks		2021											2022											
	J	F	Μ	А	Μ	J	J	А	S	0	Ν	D	J	F	Μ	А	Μ	J	J	А	S	0	Ν	D
Mapping objectives ToR 1 A, c, g																								
SC and RBMS review																								
Structural Aspects/Uncertainty & Risk																								
Workshop (PAF proposal)																								
SC and RBMS review																								
Commision discussion																								
Implementation guidelines																								
Workshop (Implementation and RP)																								

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Comparison of the NAFO PA framework with other jurisdictions. a) Canada, b) Australia, c) NAFO, d) New Zealand, e ) ICES, f) a generalize Kobe plot used in many international organizations.

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### Precautionary Approach next steps

Workshop 15- 16 August 2022 Presentation to WG-RBMS meeting 17-19 August 2022 Discussion by the Commission September 2022 Second workshop in early 2023

Final recommendations for consideration by the Commission in 2023

## Protection of Vulnerable Marine Ecosystems (VMEs)

- 28

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# Identifying VME Species and Elements

# Species Large-sized sponges Stony Corals Gorgonian corals Sea pens Tube-dwelling anemones Erect bryozoans Sea lilies Sea squirts

Elements Seamounts Canyons Knolls

Shoal Steep flanks



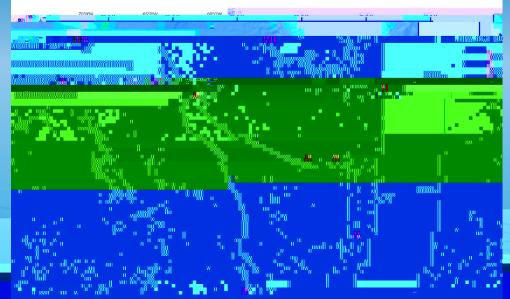
# NAFO Measures to Protect VMEs



Existing bottom fishing areas – "Footprint" VME Closures Seamount closures Thresholds for encounters with VMEs within Footprint ("move on" rule)

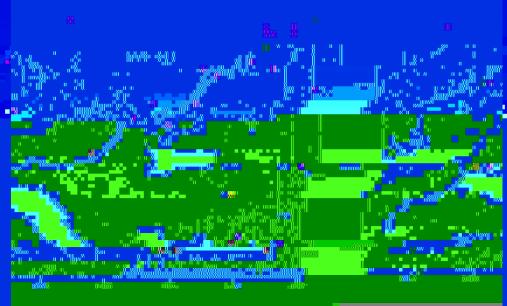


## VMEs - Current NAFO closures

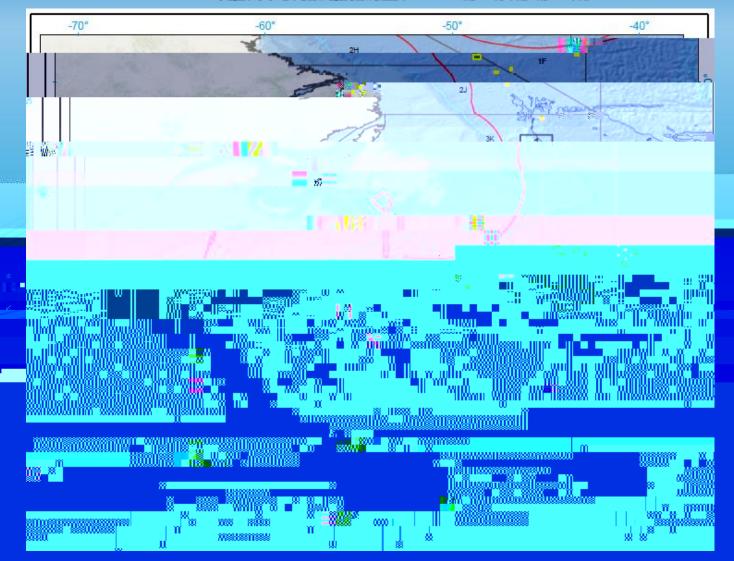


# 14 closed areas (VME protection areas)

# 12 seamount areas where bottom fishing is prohid



## Revision of NAFO Seamount closures in 2021



22

# Area Restrictions on Bottom Fishing



Bottom fishing is prohibited within the boundaries of the VME and seamount closures.

Approximate % of NRA:

VME/Seamount closures – 14.0%

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# Closing Remarks

Over the past 15 years, NAFO also has worked to develop its measures to protect VMEs and seamounts from bottom fishing based on the 2008 FAO Deep-Sea Fisheries Guidelines and the work of its Scientific Council

Measures can only be imposed on NAFen-CA4b /Span AVIC



# For more information on NAFO, please consult:

