

ECOSYSTEM BASED TECHNICAL ADVISORY PANEL
(EBFM TAP)

EBFM TAP WORKING GROUP & FEP DEVELOPMENT

Caribbean Fishery Management Council
(CFMC) Joint Ecosystem Based Fishery
Management (EBFM) Technical Advisory
Panel (TAP) & Scientific & Statistical
Committee (SSC)

Joint Meeting

May 5, 2023

Sennai Habtes

EBFM TAP Chair

Bureau Chief, Fisheries

VI DPNR – Division of Fish & Wildlife

LENFEST LOOP TOWRDS FEP DEVELOPMENT

Figure 1

THE STRUCTURE AND PROCESS OF FISHERY ECOSYSTEM PLANS



Articulate a vision

Strategic Objectives – How to develop

Assessment of Risk

Prioritize strategic objectives – Develop strategy

Operational objectives – Develop a plan to present options to council

Figure: The Lenfest FEP loop (Essington et al., 2016)

STRATEGIC AND OPERATIONAL OBJECTIVES

- Next steps towards FEP development
- Finalize FEP Outline
 - Identify vision & strategy/Framework
 - Create actions to address strategy
 - Operational Objectives
 - Writing

Figure 1

THE STRUCTURE AND PROCESS OF FISHERY ECOSYSTEM PLANS



WORKING GROUPS

Conceptual Models Melding

Members: JJ Cruz Mota, S. Williams, T. Seara, O. Tzadik, S. Stephenson, L. Rivera, T. Rankin

Outputs: Indicators & Gaps, Model Framework, Appendix of CM's, Comparative model analysis, Indicator Rankings

Ecosystem Indicators

Members: JJ Cruz Mota, S. Williams, O. Tzadik, Alida Ortiz, SEFSC (K. McCarthy, A. Rios or R. Eckley)

Outputs: Suite of ESR Indicators, Data Repository, CM & Quantitative indicators, Process of indicator prioritization, List of ESR & CM indicators

Risk Assessment

Members: S. Habtes, O. Tzadik, K. Montenero, T. Rankin, T. Seara, S. Stephenson, Maria Lopez-Mercer, (SEFSC person)

Outputs: Define indicators from the master indicator list, identify drivers and receivers as ecosystem components to develop strategic objectives to inform the council

Data Repository

Members: S. Habtes, O. Tzadik, E. Cruz-Rivera, K. McCarthy-R. Eckley, M. Lopez-Mercer, S. Stephenson, CariCOOS (guest speakers)

Outputs: Strategy for developing data management and coordination policies and infrastructure necessary for EBFM operational management in the US Caribbean through CFMC.

Drafting FEP

All technical writers, Orian, Tzadik, Sennai Habtes, Liajay Rivera Garcia, Rachel Eckley, Review of drafting: M. Lopez-Mercer

CONCEPTUAL MODELS/FEP FRAMEWORK

- Members
 - JJ Cruz Mota
 - Stacey Williams
 - Tarsila Seara (Lead)
 - Orian Tzadik
 - Sarah Stephenson
 - Liajay Rivera
 - Tauna Rankin
- Tasks:
 - 1: Come up with common terms between models before melding & crosswalk.
 - 2: Build CM for e/stakeholder (7 stakeholders)
 - 2a: See spatial variability between each model
 - 3 Validate step #2 with the stakeholders
 - 4: Compare across groups of stakeholders
 - 4a: Test all models (SSC TBD) against the DAPs
 - 5: Combine melded model
 - 5a: Meld if similarity is high (high is not defined)
 - 5b: Test different models with data if similarity is low (low is not defined)
- Outputs
 - Indicators and gaps
 - Model framework
 - Appendix with all CMs
 - Indicator rankings
 - List of operational and strategic objectives from conceptual models

CONCEPTUAL MODELS/FEP FRAMEWORK

- Members

- JJ Cruz Mota
- Stacey Williams
- Tarsila Seara (Lead)
- Orian Tzadik
- Sarah Stephenson
- Liajay Rivera
- Tauna Rankin

- Tasks:

1. ESR Indicators –suite of indicators tentatively completed – NOAA SEFSC??
2. Repository of data
3. CM and quantitative indicators
 1. Qualitative indicators related to the CM
 2. Indicators extracted from the quantitative models
4. Process to prioritize combined indicators identified
5. Combine list of ESR and CM indicators to create a master list of indicators

ECOSYSTEM INDICATORS

- Members:

- JJ Cruz-Motta
- Stacey Williams
- Orian Tzadik
- Sennai Habtes (lead)
- Edwin Cruz-Rivera
- Alida Ortiz
- Kevin McCarthy or Adyan Rios (or Rachel)

- Tasks:

1. ESR Indicators –suite of indicators tentatively completed – NOAA SEFSC??
2. Repository of data
3. CM and quantitative indicators
 1. Qualitative indicators related to the CM
 2. Indicators extracted from the quantitative models
4. Process to prioritize combined indicators identified
5. Combine list of ESR and CM indicators to create a master list of indicators

RISK ASSESSMENT

- Members:
 - Sarah Stephenson
 - Maria Lopez-Mercer
 - Orian Tzadik
 - Sennai Habtes
 - Tauna Rankin (lead)
 - Tarsila Seara
 - (SEFSC person)
- Tasks:
 - Goal: Define indicators from the master indicator list into drivers and receivers (Gaichas et al., 2018) as component to develop strategic objectives via risk assessment process to inform the DSS for the Council.
 - Steps:
 - Form working group –Aug 2022
 - Adopt approach –Dec 2022
 - Define measurable and quantifiable indicators to be used as drivers –Apr 2023
 - Identify thresholds –June 2023
 - Draft results –Aug-Sep 2023
 - Assess/evaluate the strategic objective –Dec 2023

DATA REPOSITORY NEEDS

- Members:

- Edwin Cruz-Rivera
- Kevin McCarthy/Rachel Eckley
- Orian Tzadik
- Sennai Habtes (lead)
- Sarah Stephenson/Maria Lopez-Mercer
- CARICOOS
 - Julio Morrell
 - Patricia Chardón-Maldonado

- Goal: Draft a strategy for developing data management and coordination policies and infrastructure necessary for EBFM operational management in the US Caribbean through the CFMC.
- Regular working group meetings
- Justification of need to Council
- Identify similar system in region



EBFM TAP MEETING ACTION ITEMS

- Complimentary Work from partners - updates
- Confirm Working Group Participation
- Flesh out FEP Outline!
 - Complete clear Operational objectives, Priorities, & Framework for FEP
 - Technical Writer Updates
 - Translate into writing tasks for working groups and technical writers
 - Develop working group strategies for FEP completion