



NOAA
FISHERIES

Ecosystem-Based Fisheries Management Road Map Draft Implementation Plan for HMS

Atlantic HMS Advisory Panel Meeting
September 2018



Introduction: NOAA Fisheries EBFM Policy, Road Map, and Implementation Plans



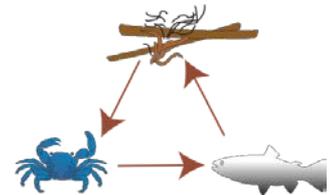
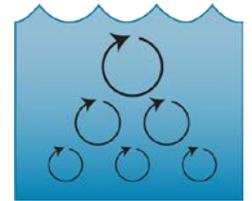
EBFM Policy and Road Map available at:

<https://www.fisheries.noaa.gov/topic/ecosystems#ecosystem-based-fishery-management>

NOAA Fisheries defines EBFM as:

A systematic approach to fisheries management in a geographically specified area that -

- Contributes to the resilience and sustainability of the ecosystem;
- Recognizes the physical, biological, economic, and social interactions among the affected fishery-related components of the ecosystem, including humans; and
- Seeks to optimize benefits among a diverse set of societal goals.



ian.umces.edu/symbols/

EBFM Policy and Guiding Principles

Outcome

6. Maintain Resilient Ecosystems

What is our advice?

5. Incorporate ecosystem considerations into management advice

What are our options?

4. Explore and address trade-offs within an ecosystem

What are our priorities?

3. Prioritize vulnerabilities and risks of ecosystems and their components

What is the foundational science we need?

2. Advance our understanding of ecosystem processes

What are our objectives?

1. Implement ecosystem-level planning

EBFM Road Map

- Guides implementation of the Final EBFM Policy
- Incorporates a menu of options for implementation and benchmarks for NOAA Fisheries
- Expands on 6 Guiding Principles, describing multiple Actions Items for each

Regional EBFM Implementation Plans

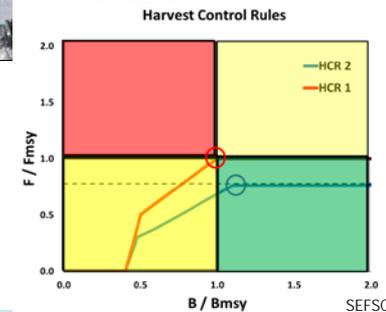
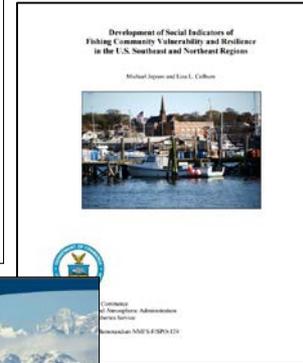
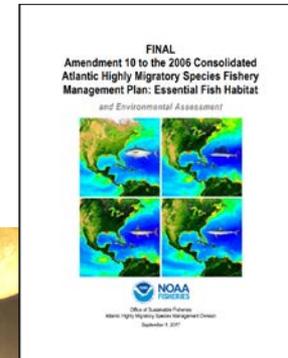
- NOAA Fisheries regions, including the HMS Management Division,
 - Combined ongoing initiatives into Draft EBFM Implementation Plans with specific milestones for 2018-2022
 - Are engaging the HMS Advisory Panel, Councils, Commissions, and other stakeholders in development of Final Implementation Plans

HMS Draft EBFM Implementation Plan

Perspective

Partners

Projects



Draft EBFM Implementation Plan: Milestones for HMS Fisheries

Guiding Principle

Guiding Principle 1: Implement ecosystem-level planning

Action Item

1a. Develop engagement strategies to facilitate the participation of partners and stakeholders in the EBFM process

Milestones

Road Map Action Item: Develop National and Regional EBFM engagement strategies

Timing: Short

Associated Milestone(s):

- See the engagement strategy in section 4 below.

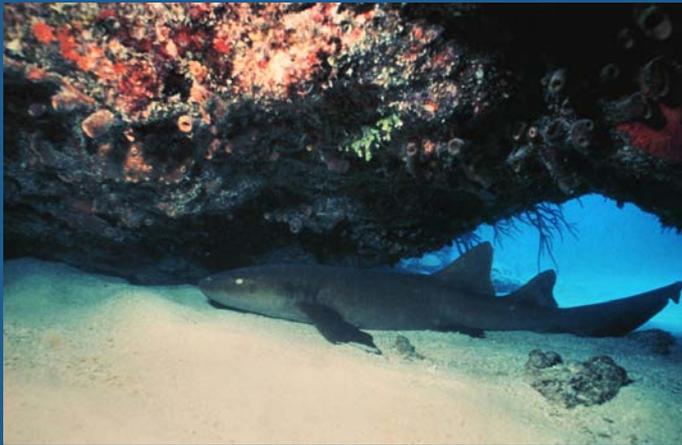
Road Map Action Item: Develop best practices where there are overlapping jurisdictions

Timing: Mid

Associated Milestone(s):

- Work with Council and Commission ecosystem-related working groups to determine best practices on how to integrate HMS EBFM actions into Council and Commission EBFM-related plans, as well as invite those working group members to engage on HMS best practices.

Draft EBFM Implementation Plan: Milestones for HMS Fisheries



- Are there actions in the EBFM Road Map that should/should not be included in the HMS Implementation Plan?
- Are there any improvements you would suggest to our milestones in the Draft Implementation Plan?
- Are there additional engagement strategies or partners/stakeholders that you would suggest including?
- Is there anything in the Draft Implementation Plan that needs further clarification?

Guiding Principle 1: Implement ecosystem-level planning

- Work with NOAA Fisheries EBFM Working Group to include HMS information in EBFM Road Map outreach materials
- Support ICCAT SCRS Sub-Committee on Ecosystems
- Participate with Council ecosystem-related committees (e.g., Mid-Atlantic Council's Fishery Mgmt. Action Team for chub mackerel)
- Establish HMS Mgmt. Division Fishery Ecosystem Plan (FEP) Coordinator to work with relevant mgmt. bodies
- Coordinate with 5 relevant Regional Fishery Management Councils to incorporate HMS information into their FEPs



Guiding Principle 2: Advance our understanding of ecosystem processes

- Support SE and NE Science Center funding for research to advance EBFM technologies for, and knowledge of, HMS
- Consider trophic interactions and other ecosystem topics to be included in HMS research needs and priorities
- Support SCRS work to develop an Ecosystem Report Card for ICCAT
- Work with NOAA Integrated Ecosystem Assessment Program to incorporate HMS into ecosystem status reports
- Attend biennial EBFM Science & Management Conference and encourage regular communication with partners



Guiding Principle 3: Prioritize vulnerabilities and risks to ecosystems and their components

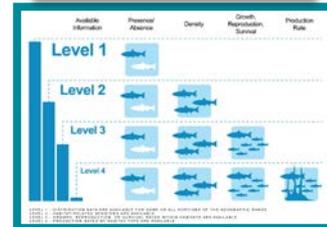
- Implement HMS actions in Climate Regional Action Plans (e.g., Northeast, Gulf of Mexico, and South Atlantic plans)

- Collaborate with Science Center staff when an HMS Climate Vulnerability Assessment is initiated

- Initiate next EFH 5-year review; Assist Office of Habitat Conservation with habitat consultations

- Continue progress on stock assessment prioritization for domestic shark stocks

- Support habitat assessment prioritization for HMS in the southeast region



Guiding Principle 4: Explore and address trade-offs within an ecosystem

- Assess the inclusion of HMS in the enhancement of modeling capacity in the SE and NE Science Centers
- Explore use of scenario planning for management of HMS fisheries
- Continue support of ICCAT's development of management strategy evaluations (MSE) (e.g., albacore, bluefin tuna)
- Contribute bluefin tuna data for inclusion in the New England Fishery Mgmt. Council Atlantic herring MSE
- Continue work at ICCAT to develop and adopt harvest control rules (e.g., albacore, bluefin tuna, swordfish)



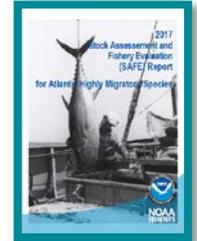
Guiding Principle 5: Incorporate ecosystem considerations into management advice

- Participate in implementation of National Standard 1 (NS1) Guidelines, including use of aggregate MSY and incorporating ecosystem level reference points in FMPs
- Consider updating FMP objectives to include NS1 guidance on incorporating ecosystem information into stock mgmt.
- Support discussion of MSE, ecosystem report card, and other EBFM-related topics at the ICCAT working group on Dialogue between Fisheries Scientists and Managers
- Implement National Allocation Policy in upcoming HMS FMP Amendment 12
- Coordinate with Protected Resources to participate in update of recovery and rebuilding plans for HMS (e.g., scalloped hammerhead and oceanic whitetip sharks)



Guiding Principle 6: Maintain resilient ecosystems

- Track ecosystem-level reference points as they are developed; include in annual HMS SAFE Report
- Use annual cost earnings surveys to better understand community health and well-being and determine if surveys could be used for developing socioeconomic metrics
- Coordinate with Southeast For-Hire Integrated Electronic Reporting team on community health tracking
- Use community profile series to monitor community health and well-being indicators
- Contribute to community vulnerability analysis developed by Science Centers and Office of Science and Technology



Engagement Strategy

Action	Milestone(s)
Provide updates to/ solicit feedback from partners and stakeholders on HMS EBFM-related activities	<ul style="list-style-type: none"> • Solicit feedback and provide information at HMS AP meetings • Attend Council and Commission meetings as requested • Incorporate HMS EBFM information in outreach materials • Send information on HMS email listserv and website
Engage on ICCAT EBFM activities	<ul style="list-style-type: none"> • Support discussions at ICCAT meetings (Annual meeting, Intersessional meetings, Working Groups, Advisory Committee)
Coordinate with council EBFM efforts	<ul style="list-style-type: none"> • Engage with Regional Fishery Management Council staff on EBFM activities to determine where coordination is appropriate
Coordinate with EBFM efforts in other NOAA Fisheries offices and regions	<ul style="list-style-type: none"> • Engage with larger NOAA Fisheries EBFM Working Group • Continue coordination between HMS Management Division, NEFSC, and SEFSC on HMS EBFM in fisheries research • Engage with regional staff to determine where coordination on EBFM activities is appropriate • Participate in biennial EBFM Science & Management Conference

Timeline and Next Steps



Timeline and Comments

- Draft Implementation Plans released June 2018
- Comments on the Draft Implementation Plans due **September 30, 2018**
 - HMS, Regional, and Headquarters Draft Implementation Plans available at:
<https://www.fisheries.noaa.gov/national/ecosystems/ecosystem-based-fishery-management-draft-implementation-plans>
 - Send comments on the HMS Draft Implementation Plan to nmfs.hms-ebfm@noaa.gov
- Final Implementation Plans expected in winter 2018

Discussion and Questions

- Are there actions in the EBFM Road Map that should/ should not be included in the HMS Implementation Plan?
- Are there any improvements you would suggest to our milestones in the Draft Implementation Plan?
- Are there additional engagement strategies or partners/stakeholders that you would suggest including?
- Is there anything in the Draft Implementation Plan that needs further clarification?

Comments: nmfs.hms-ebfm@noaa.gov

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