

## February 2021 Council Meeting Webinar

Wednesday, February 10 – Thursday, February 11, 2021

Meeting Page: https://www.mafmc.org/briefing/february-2021

### Agenda

#### Wednesday, February 10

9:00 a.m. – 10:30 a.m. North Atlantic Right Whale Issues (Tab 1)

Jen Anderson (GARFO Assistant Regional Administrator for Protected Resources)

- Atlantic Large Whale Take Reduction Plan Draft Environmental Impact Statement (DEIS) and proposed rule
- Draft Batched Biological Opinion covering 10 fisheries

**10:30 a.m. – 12:00 p.m.** Aquaculture Updates (Tab 2)

- Aquaculture topics in E.O. 13921, including Aquaculture
   Opportunity Areas, Danielle Blacklock (NOAA Office of Aquaculture, Director)
- Regional EEZ Aquaculture Projects Status Update, *Kevin Madley* (GARFO Regional Aquaculture Coordinator)

12:00 p.m. – 1:00 p.m. Lunch

1:00 p.m. – 2:00 p.m. Review Staff River Herring and Shad White Papers (Tab 3)

2:00 p.m. – 4:30 p.m. MAFMC and Atlantic States Marine Fisheries Commission Bluefish Management Board

**Bluefish Allocation and Rebuilding Amendment (Tab 4)** 

- Review and approve joint draft public hearing document for public comment
- Board only: approve draft Commission amendment document for public comment

#### Thursday, February 11

9:00 a.m. - 10:00 a.m. Offshore Wind Update (Tab 5)

- Updates related to federal review and approval of offshore wind projects, Brian Hooker (Bureau of Ocean Energy Management)
- Offshore Wind Developer Updates
  - Coastal Virginia Offshore Wind, Ron Larsen and Kevin Carroll
  - Kitty Hawk Wind, Rick Robins and Brian Benito

#### 10:00 a.m. – 1:00 p.m. **Business Session**

#### **Committee Reports**

Scientific and Statistical Committee

#### **Executive Director's Report (Tab 6)**

Chris Moore

Review and approve SOPP updates

#### **Organization Reports**

- NMFS Greater Atlantic Regional Office
- NMFS Northeast Fisheries Science Center
- NOAA Office of General Counsel
- NOAA Office of Law Enforcement
- US Coast Guard

#### **Liaison Reports (Tab 7)**

- New England Council
- South Atlantic Council

#### **Continuing and New Business (Tab 8)**

The above agenda items may not be taken in the order in which they appear and are subject to change, as necessary. Other items may be added, but the Council cannot take action on such items even if the item requires emergency action without additional public notice. Non-emergency matters not contained in this agenda may come before the Council and / or its Committees for discussion, but these matters may not be the subject of formal Council or Committee action during this meeting. Council and Committee actions will be restricted to the issues specifically listed in this agenda. Any issues requiring emergency action under section 305(c) of the Magnuson-Stevens Act that arise after publication of the Federal Register Notice for this meeting may be acted upon provided that the public has been notified of the Council's intent to take final action to address the emergency. The meeting may be closed to discuss employment or other internal administrative matters.

December 14-17, 2020 Webinar Meeting

#### **MOTIONS**

#### Monday, December 13, 2020

#### 2021 Implementation Plan

Move to add to the 2021 workplan initiation of an action to implement a possession limit for frigate and bullet mackerel in the Mid-Atlantic.

DiLernia/deFur (12/8/0)

Motion carries

Move to approve the 2021 Implementation Plan with the revisions approved today.

deFur/Duval (18/2/0)

Motion carries

#### Tuesday, December 15, 2020

#### **SSC Economic Work Group Report**

Move to recommend proceeding with the river herring/shad catch cap SSC Economic Work Group project as proposed for development in 2021. deFur/Winslow

Move to substitute to use the RSA Redevelopment Workshop as the case study.

Nowalsky/Pentony (15/4/1)

Motion to substitute carries

Substitute motion becomes the main motion:

Move to recommend proceeding with the RSA Redevelopment Workshop SSC Economic Work Group project as proposed for development in 2021.

(19/0/1)

Motion carries

#### Scup 2021 Recreational Specifications

Move to maintain status quo state and federal waters recreational measures for scup in 2021, including a federal waters minimum size limit of 9 inches, a 50 fish federal waters possession limit, and open federal waters season of January 1 through December 31.

Board: Fote/Meserve (Motion carries by consent without abstention)

Council: Cimino/Risi (19/0/0)

Motion carries

#### Black Sea Bass 2021 Recreational Specifications

Move to maintain status quo state and federal waters recreational measures for black sea bass in 2021, including a federal waters minimum size limit of 12.5 inches, a 15 fish federal waters possession limit, and open federal waters seasons of Feb 1-28 and May 15-Dec 31.

Council: Lenox/Bolen (18/0/1) Board: Fote/Clark (10/0/0/1)

Motion carries

#### **Summer Flounder 2021 Recreational Specifications**

Move to adopt status quo management based on conservation equivalency, utilizing the same regional management structure and measures established for 2020, for 2021 summer flounder recreational management, with non-preferred coastwide measures including a 19-inch minimum size, 4 fish possession limit, and open season from May 15-September 15. In addition, the precautionary default measures would include a 20-inch minimum size, 2 fish possession limit, and open season from July 1-August 31.

Board: Hasbrouck/Borden (Motion carries by consent without abstention)

Council: Davidson/Cimino (20/0/0)

Motion carries

#### **Bluefish 2021 Recreational Specifications**

Move to maintain status quo state and federal waters recreational measures for bluefish in 2021, including a 3-fish and 5-fish bag limit for private and for-hire anglers, respectively. This includes conservation equivalency measures for Georgia state waters, which includes a 15 fish bag limit, minimum size of 12 inches, and a closed season of March 1st through April 30th.

Board: Davis/Clark (14/0/0/0) Council: Pentony/Risi (16/2/0)

Motion carries

#### Wednesday, December 16, 2020

## Summer Flounder, Scup, and Black Sea Bass Commercial/Recreational Allocation Amendment

Move to approve the Commercial/Recreational Allocation Amendment public hearing document and Commission draft amendment document for public comment as modified today.

Council: DiLernia/Duval (15/5/0) Board: Meserve/Davis (10/2/0/0)

Motion carries

#### Black Sea Bass Commercial State Allocation Amendment and Draft Addendum XXXIII

Move that the Council and Board adopt option B under 3.2.2 as the preferred alternative (coastwide federal in-season closure at quota plus a buffer of up to 5%).

Council: Pentony/DiLernia (18/0/0) Board: Borden/Meserve (11/0/0/0)

Motion carries

Move to adopt option B under 3.2.1 (allocations in both FMPs) and sub-option B1 (states only pay back overages if coastwide quota is exceeded).

Council: Cimino/Hughes Board: Cimino/Batsavage

Move to postpone until the February 2021 Commission meeting.

Board: Gilmore/Fote

Council: deFur/DiLernia (10/10/0)

Motion to postpone fails for lack of Council majority

Move to substitute option A (allocations remain only in Commission FMP) for option B under 3.2.1.

Board: Reid/Hasbrouck

Council: Farnham/Pentony (5/15/0)

Motion to substitute fails for lack of Council majority

Return to the main motion:

Move to adopt option B under 3.2.1 (allocations in both FMPs) and sub-option B1 (states only pay back overages if coastwide quota is exceeded).

Council: (15/5/0) Board: (6/5/0/0) Motion carries

Move to postpone further action until the next joint meeting hosted by the Commission.

Council: Bolen/deFur (20/0/0)

Board: Davis/Fote (Motion carries by consent without abstention)

Motion carries

#### Thursday, December 17, 2020

#### **Continuing and New Business**

I move that the Council send a letter to NOAA Fisheries recommending the agency clarify guidance on the use of the Ecosystem Component species designation, particularly how measures intended to protect the ecosystem roles of such species may be implemented across jurisdictions and fishery management plans.

Duval/DiLernia

Motion carries by consent with abstention by NMFS



## Stock Status of MAFMC-Managed Species

(as of 1/29/21)

	STATUS DETERMINATION CRITERIA			
SPECIES	Overfishing F <sub>threshold</sub>	Overfished ½ B <sub>MSY</sub>	Stock Status	Most Recent Assessment
Summer Flounder	F35% <sub>MSP</sub> =0.448	63 million lbs	No overfishing Not overfished	Most recent benchmark assessment was 2018.
Scup	F40% <sub>MSP</sub> =0.215	103.64 million lbs	No overfishing Not overfished	Most recent operational assessment was 2019.
Black Sea Bass	F40% <sub>MSP</sub> =0.46	15.53 million lbs	No overfishing Not overfished	Most recent operational assessment was 2019.
Bluefish	F <sub>35%SPR</sub> =0.183	219.05 million lbs	No overfishing Overfished	Most recent operational assessment was 2019.
Illex Squid (short finned)	Unknown	Unknown	Unknown Unknown	Most recent benchmark assessment was 2006; not able to determine current exploitation rates or stock biomass.
Longfin Squid	Unknown	46.7 million lbs	Unknown Not overfished	Most recent assessment was 2020; not able to determine current exploitation rates.
Atlantic Mackerel	F <sub>40%</sub> =0.26	217.0 million pounds	Overfishing Overfished	Most recent benchmark assessment was 2017
Butterfish	F <sub>Proxy</sub> =2/3M =0.81	50.3 million lbs	No overfishing Not overfished	Most recent assessment was 2020.
Chub Mackerel	At least 3,026 MT of catch per year	At least 3,026 MT of catch three years in a row	No overfishing Not overfished	No stock assessment.

		TERMINATION ITERIA		
SPECIES	Overfishing F <sub>threshold</sub>	Overfished ½ B <sub>MSY</sub>	Stock Status	Most Recent Assessment
Surfclam	F/F <sub>threshold</sub> = 1 <sup>a</sup>	SSB/SSB <sub>threshold</sub> = 1 <sup>b</sup>	No overfishing Not overfished	Most recent assessment was 2020
Ocean Quahog	F/F <sub>threshold</sub> = 1 <sup>c</sup>	SSB/SSB <sub>threshold</sub> =1 <sup>d</sup>	No overfishing Not overfished	Most recent assessment was 2020.
Golden Tilefish	F <sub>38%MSP</sub> =0.310	10.46 million lbs	No overfishing Not overfished	Most recent assessment update was 2017.
Blueline Tilefish	Unknown	Unknown	South of Cape Hatteras: No overfishing Not overfished  North of Cape Hatteras: Unknown Unknown	Most recent benchmark assessment was 2017.
Spiny Dogfish (Joint mgmt with NEFMC)	F <sub>MSY</sub> =0.2439	175.6 million lbs Female SSB	No overfishing Not overfished	Most recent assessment update was 2018.
Monkfish (Joint mgmt with NEFMC)	NFMA & SFMA F <sub>MAX</sub> =0.2	NFMA - 1.25 kg/tow SFMA - 0.93 kg/tow (autumn trawl survey)	Unknown Unknown	Recent benchmark failed peer review and invalidated previous 2010 benchmark assessment results. Operational assessment in 2019 used survey data to scale earlier ABC.

SOURCES: Office of Sustainable Fisheries - Status Report of U.S. Fisheries; SAW/SARC, SEDAR, and TRAC Assessment Reports.

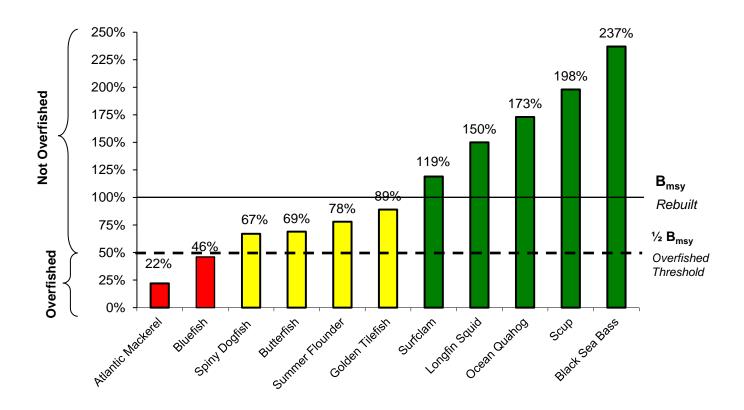
 $^{\text{a}}$   $\textsc{F}_{\textsc{threshold}}$  is calculated as 4.136 times the mean F during 1982 - 2015.  $^{\text{b}}$  SSB  $_{\textsc{threshold}}$  is calculated as SSB  $_{\textsc{0}}/4$  .

 $<sup>^{\</sup>text{c}}$   $F_{\text{threshold}}$  is 0.019.

 $<sup>^{\</sup>text{d}}$  SSB<sub>threshold</sub> is calculated as 0.4\*SSB<sub>0</sub>.



## Stock Size Relative to Biological Reference Points (as of 1/29/21)



#### Notes:

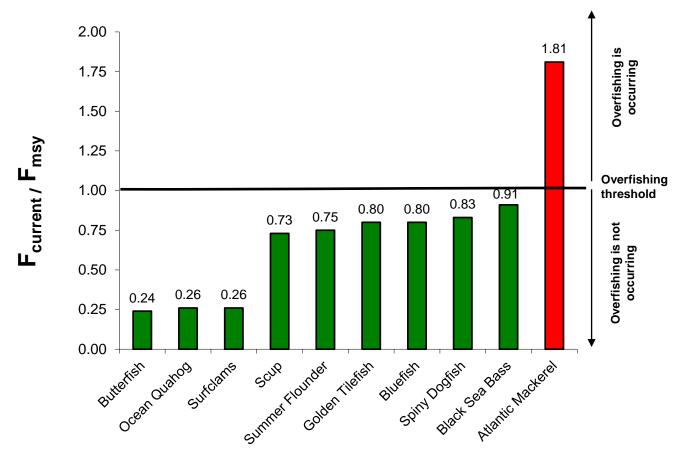
- Unknown B<sub>msy</sub> Illex squid, monkfish (NFMA & SFMA), blueline tilefish (North of Cape Hatteras), and chub mackerel.
- Of the 15 species managed by the Council, 5 are above B<sub>msy</sub>, 6 are below B<sub>msy</sub>, and 4 are unknown.

Year of data used to determine stock size			
Atlantic Mackerel	2016		
Black Sea Bass	2018		
Bluefish	2018		
Butterfish	2019		
Golden Tilefish	2016		
Longfin Squid	2018-2019		
	(average)		
Ocean Quahog	2019		
Spiny Dogfish	2018		
Surfclam	2019		
Scup	2018		
Summer Flounder	2017		



# Fishing Mortality Ratios for MAFMC-Managed Species

(as of 1/29/21)



#### Notes:

- Unknown fishing mortality: Illex squid, Longfin squid, monkfish (NFMA and SFMA), blueline tilefish (North of Cape Hatteras), and chub mackerel.
- Of the 15 species managed by the Council, 9 are above F<sub>msy</sub>, 1 is above, and 5 are unknown.

Year of data used to determine fishing mortality			
Atlantic Mackerel	2016		
Black Sea Bass	2018		
Bluefish	2018		
Butterfish	2019		
Golden Tilefish	2016		
Ocean Quahog	2019		
Spiny Dogfish	2017		
Surfclam	2019		
Scup	2018		
Summer Flounder	2017		



800 North State Street, Suite 201, Dover, DE 19901 Phone: 302-674-2331 | FAX: 302-674-5399 | www.mafmc.org Michael P. Luisi, Chairman | P. Weston Townsend, Vice Chairman Christopher M. Moore, Ph.D., Executive Director

#### MEMORANDUM

**Date:** January 26, 2021

**To:** Chris Moore, Executive Director

From: Kiley Dancy and Karson Coutre, Staff

**Subject:** Tab 1: North Atlantic Right Whale Issues

On Wednesday, February 10, the Council will receive updates on two recent developments related to North Atlantic Right Whales.

#### Proposed Revisions to the Atlantic Large Whale Take Reduction Plan

On December 31, 2020, the National Marine Fisheries Service (NMFS) published a proposed rule to amend the Atlantic Large Whale Take Reduction Plan (ALWTRP) to reduce the impacts of entanglement in fishing gear on right whales in U.S. waters. The proposed modifications focus on the Northeast Jonah crab and lobster trap/pot fisheries. NMFS will hold <u>public hearings</u> on the proposed measures between February 16 and February 24, 2021. Later in 2021, the Atlantic Large Whale Take Reduction Team will be asked to recommend risk reduction measures for other Atlantic trap/pot and gillnet fisheries.

During the February 2021 Council Meeting, the Council will receive a presentation on this proposed rule from Jen Anderson, NMFS Greater Atlantic Regional Administrator for Protected Resources. The briefing materials for this discussion include:

- 1) Message from Chris Oliver dated December 30, 2020
- 2) Fact Sheet: Proposed "Risk Reduction Rule" to Modify the Atlantic Large Whale Take Reduction Plan

#### **Supplemental:**

- Proposed rule dated Thursday, December 31, 2020
- Draft EIS for proposed ALWTRP modifications

#### ESA Section 7 Consultation Draft Batched Biological Opinion Covering 10 FMPs

During this agenda item, the Council will also receive a presentation on the Draft Biological Opinion on 10 Fishery Management Plans (FMPs) released by NMFS on January 15, 2021.

Section 7 of the Endangered Species Act (ESA) is the mechanism by which Federal agencies ensure the actions they take, including those they fund or authorize, do not jeopardize the continued

existence of any endangered or threatened species. When the action of a federal agency may affect species listed as threatened or endangered, that agency is required to consult with either NMFS or the U.S. Fish and Wildlife Service (USFWS), depending upon the species that may be affected. In instances where NMFS or USFWS are themselves proposing an action that may affect listed species, the agency must conduct intra-service consultation.

In 2017, the Sustainable Fisheries Division of NMFS Greater Atlantic Regional Fisheries Office (GARFO) reinitiated formal intra-service consultation with the Protected Resources Division on the authorization of eight FMPs under the authority of the Magnuson-Stevens Fishery Conservation and Management Act and two FMPs under the Atlantic Coastal Fisheries Cooperative Management Act. Reinitiation of the consultations was necessary given new information on the status of the North Atlantic right whale. The following fisheries were included in the consultation:

- 1. American Lobster
- 2. Atlantic Bluefish
- 3. Atlantic Deep-Sea Red Crab
- 4. Mackerel/Squid/Butterfish
- 5. Monkfish
- 6. Northeast Multispecies
- 7. Northeast Skate Complex
- 8. Spiny Dogfish
- 9. Summer Flounder/Scup/Black Sea Bass
- 10. Jonah Crab

In assessing the impact of the various fisheries on the North Atlantic right whale, NMFS identified that mortality and serious injury of North Atlantic right whales in federal fisheries managed by the GARFO needs to be further reduced. Therefore, NMFS developed and is committed to implementing the North Atlantic Right Whale Conservation Framework for Federal Fisheries in the Greater Atlantic Region to further reduce entanglements and mortality and serious injury of North Atlantic right whales. The Framework outlines NOAA Fisheries' commitment to implement measures that are necessary for the recovery of right whales, while providing a phased approach and flexibility to the fishing industry.

The draft Biological Opinion is available for review until February 19, 2021. Relevant information and feedback can be provided to <a href="mailto:nmfs.gar.fisheriesbiopfeedback@noaa.gov">nmfs.gar.fisheriesbiopfeedback@noaa.gov</a>.

The following **supplemental** briefing materials on this topic are available on the February 2021 Council Meeting page. These materials include correspondence between NEFMC, MAFMC, and GARFO via letter and email regarding involvement in Section 7 consultation.

- Full Draft Biological Opinion released on January 15, 2021
- Letter from NEFMC and MAFMC to GARFO dated February 25, 2019
- January 2021 Emails on Council involvement in consultation
- Policy Directive: Integration of Endangered Species Act Section 7 with Magnuson-Stevens Act Processes renewed September 2018



## Proposed Pot/Trap Fisheries Regulations to Help Save North Atlantic Right Whales Available for Public Comment

December 30, 2020

Proposed modifications to the Atlantic Large Whale Take Reduction Plan address entanglements in fishing gear, one of two leading causes of right whale serious injury and death.



The North Atlantic right whale is one of the most endangered large whale species, with under 400 whales, and fewer than 100 breeding females remaining in the world. Due to a large number of deaths in 2017, we declared an Unusual Mortality Event (UME). Since 2017, about 10 percent of the population has either died or been seriously injured. In real terms, that means the total confirmed deaths for the UME are 32 dead whales—21 in Canada and 11 in the United States—plus 13 seriously injured whales. We know that the leading causes of death and serious injury for this UME are entanglements in fishing gear and vessel strikes.

Protecting and recovering this species has been a priority for the agency for many years. Since 1997, we have worked with stakeholders on the Atlantic Large Whale Take Reduction Team to reduce the impacts of commercial fishing gear on right whales. We continually refine our management measures to support recovery of this critically endangered population, with the most recent modifications in 2015.

Today, we released our proposed modifications to the Atlantic Large Whale Take Reduction Plan to further reduce the impacts of entanglement in fishing gear on right whales in U.S. waters. The proposed modifications focus on the Northeast Jonah crab and lobster trap/pot fisheries, which deploy about 93 percent of the buoy lines fished in areas where right whales occur. In 2021, the team will be asked to recommend risk reduction measures for other Atlantic trap/pot and gillnet fisheries. We also released the associated Draft Environmental Impact Statement.

We opened a public comment period on both of these documents. Comments are due on the proposed modifications and on the DEIS by March 1, 2021. We will also hold a series of virtual informational sessions in January to explain the proposed modifications and public hearings in February to accept public comments on the modifications.

The proposed modifications to the Plan would:

- Modify gear configurations to reduce the number of vertical lines by requiring more traps between buoy lines and by introducing weak insertions or weak rope into buoy lines.
- Modify existing seasonal restricted areas to be closed to buoy lines.
- Add up to two new seasonal buoy line closures.
- Modify gear marking to introduce state-specific marking colors and increase the number of and area of marked lines.

The proposed modifications would also allow fishermen to experiment with ropeless (buoyless) alternatives to accelerate research and development of ropeless fishing methods so that in the future, commercial fishing using ropeless technology can be used instead of seasonal closures to allow trap/pot fishing while protecting right whales.

These proposed modifications will affect about 2,500 lobster trap/pot vessels that will have to make changes to the way they fish. The material and labor costs caused by the proposed rule in the first year are estimated to be \$7 million to \$15.4 million spread out among the fishery that

last year generated \$485 million in fishing revenue in Maine alone. As always, we are looking for ways to support fishermen as they transition to these new requirements, as our goal is to have both a thriving trap/pot fishery and a healthy population of right whales.

Developing these proposed modifications was challenging for everyone involved. On behalf of the agency, I want to thank the 61-member Atlantic Large Whale Take Reduction Team, including the 18 fishermen and fishing industry representatives on the team, for their many hours of time spent developing the recommendations on which these proposed modifications are based.

We recognize that the risk of entanglement in fishing gear in U.S. waters is one of the many risks that these whales face. We will continue our work to reduce the risks posed by vessel strikes in U.S. waters, as well as to collaborate with Fisheries and Oceans Canada and Transport Canada on all matters related to the transboundary reduction of vessel strike and entanglement mortalities and serious injuries of North Atlantic right whales.

We will provide updates on those activities as we have them.

Chris Oliver
Assistant Administrator for Fisheries

Last updated by Greater Atlantic Regional Fisheries Office on December 30, 2020





## **NOAA**FISHERIES

Greater Atlantic Regional Fisheries Office

## Comments are due by March 1, 2021.

For information on **public hearings** on the DEIS and proposed rule, as well as copies of the documents and background information, visit our website: **fisheries. noaa.gov/ALWTRP.** 

Attendance at a public hearing is not necessary for commenting.

Comments may also be submitted in writing through the online comment portal.

To comment, go to: regulations.gov. Search for NOAA-NMFS-2020-0031.

Choose "Comment Now" to submit your comments.

#### **Questions?**

Contact Colleen. Coogan@noaa.gov, Marisa.Trego@noaa. gov or call (978) 281-9181.

## Proposed "Risk Reduction Rule" to Modify the Atlantic Large Whale Take Reduction Plan

#### **SUMMARY FOR PUBLIC COMMENTS**

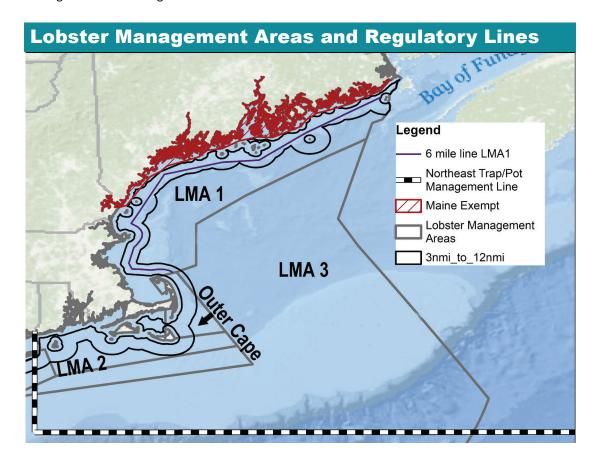
To reduce the impacts of entanglement in commercial fishing gear on right whales, we are requesting comments on proposed changes to the Atlantic Large Whale Take Reduction Plan (ALWTRP). These modifications are intended to achieve at least a 60 percent reduction in mortalities or serious injuries of right whales in the Northeast crab and lobster trap/pot fisheries, which deploy about 93 percent of the buoy lines fished in areas where right whales occur. In 2021, the Atlantic Large Whale Take Reduction Team will be asked to recommend risk reduction measures for other Atlantic trap/pot and gillnet fisheries.

The proposed rule and the Draft Environmental Impact Statement, as well as details on how to provide comments, can be found on the Plan website: fisheries.noaa.gov/ALWTRP.

#### The Proposed Rule would:

- Modify gear marking to introduce state-specific marking colors
- Increase the number of and area of marked lines
- Modify gear configurations to reduce the number of vertical buoy lines by requiring more traps between buoy lines and by introducing weak insertions or weak rope into buoy lines
- Modify existing seasonal restricted areas to restrict buoy lines (but allow ropeless fishing)
- Add up to two new seasonal buoy line closures

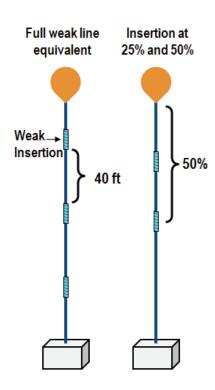
The tables on the following pages list the regulatory elements of the risk reduction alternatives in the proposed rule and considered in the preferred alternative within the Draft Environmental Impact Statement. Measures shaded in blue are those that will be managed under other state or fishery management rulemaking.



#### **Traps Per Trawl**

Area	Current Regulations	Proposed Regulations
ME exempt area – 3 nm	2 traps/trawl	3 traps/trawl
ME 3–6 nm	3 traps/trawl	8 traps/trawl
LMA1, 6-12 nm	10 traps/trawl	15 traps/trawl
LMA 2, OC 3-12 nm	10 traps/trawl	15 traps/trawl
LMA1, 2 beyond 12 nm	15-20 traps/trawl	25 traps/trawl
MA state waters	1 or 2 traps/trawl	No singles on vessels longer than 29' (8.84 m) permits after 1/1/2020
LMA3	20 traps/trawl	Year-round: 45 traps/trawl, extend trawl length to 1.75 nm

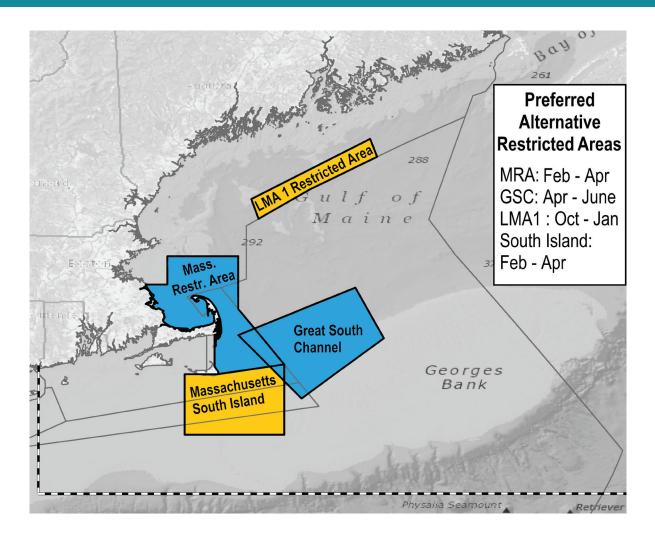
### **Weak Link and Weak Line Regulations**



Component	Area	Current	Proposed
Weak Link Modification	Northeast Region	Weak link required attaching buoy to buoy line	Allow it to be at base of the surface system or, as currently required, at buoy
Weak Line	ME exempt area	None	1 weak insertion 50% down the line
	NH/MA/RI Coast–3 nm	None	1 weak insertion 50% down the line
	ME exempt area-3 nm, All areas 3-12 nm	None	2 weak insertions at 25% and 50% down line
	LMA 1, 2, OCC beyond 12 nm	None	1 weak insertion 35% down the line
	LMA 3	None	1 buoy line weak year-round to 75%

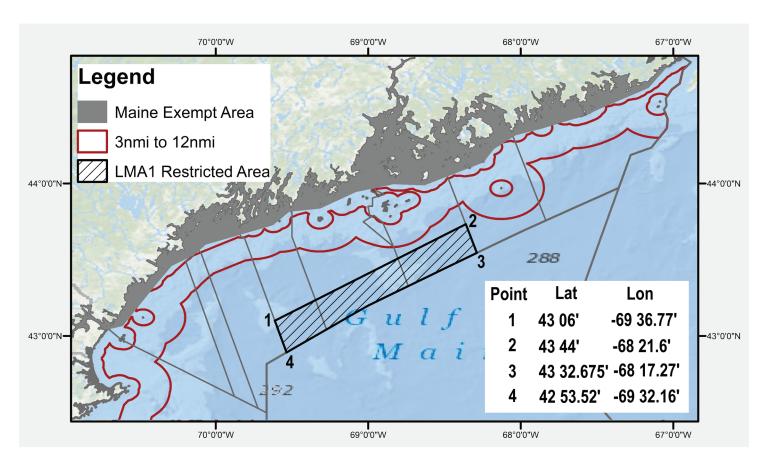
Blue shading indicates state regulations, including Maine gear marking, Massachusetts Restricted Area closure extension into May, and Massachusetts banning of single pots on vessels greater than 29 feet after permit transfers.

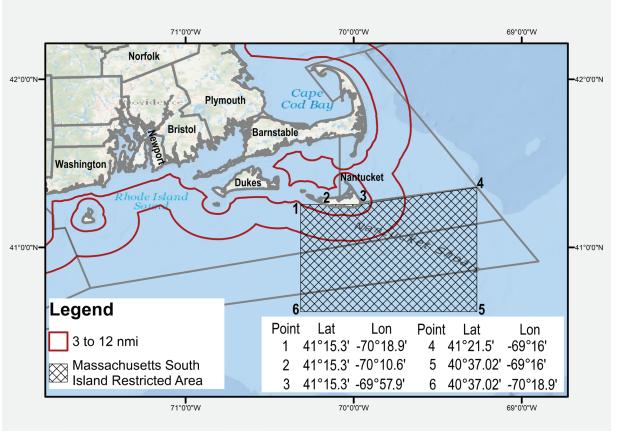
#### **Restricted Areas**



Area	<b>Current Regulations</b>	Proposed Regulations
All Restricted Areas	Closed to Fishing	Allow trap/pot fishing without buoy lines in existing and proposed restricted areas with an exempted fishing permit (EFP). EFP authorizations would likely include conditions to protect right whales (e.g. area restrictions, low vessel
		speed, observer monitoring, and reporting requirements.)
LMA1 Restricted Area	None	Restricted Oct-Jan
		Or 1-A no restriction
		Or 1-B restricted Oct-Jan based on future determinations
Massachusetts South Island	None	Restricted Feb-April
Restricted Area		
Massachusetts Restricted Area (MRA)	Closed Feb-April	Restricted Feb-April
(IVINA)	State waters closed	State waters closed through May until < than 3 whales
	through May until <3 whales remain	remain (confirmed by surveys)
	(confirmed by surveys)	
Great South Channel Restricted Area	Closed April-June	Restricted April-June

#### **Restricted Areas - Detailed Maps**





### **Gear Marking**

## Federal Water

## **Federal Waters**



Area	Current	Proposed
Marks		
Entire Northeast Region	Three 12-inch marks, one at the top, middle, and bottom in the color below  No federal specific mark	One 3-foot long state-specific mark within two fathoms of the buoy (within the surface system) and three 12-inch marks at the top, middle and bottom of the buoy line (color below)  6-inch green mark within the surface system within 12 inches of the 3-foot mark
Colors	HIGIK	Within 12 menes of the 3-root mark
Maine	Red	Purple with 6-inch green mirroring state regulations effective 09/2020
New Hampshire	Red	Yellow with 6-inch green
Massachusetts	Red	Red with 6-inch green
Rhode Island	Red	Silver/Gray with 6-inch green
LMA 3	Black	Black with 6-inch green

#### State Water Marks

## **State Waters**



Area	Current	Proposed
Marks		
Maine	None in TRP regs, state regulations as of 09/2020	One 3-foot long and one or two additional 1-foot marks (by depth) through state regulation
Massachusetts, Rhode Island, & New Hampshire	Three 12-inch marks, one at the top, middle, and bottom in the color below	One 3-foot long state-specific mark within two fathoms of the buoy (within the surface system) and two 12-inch marks in the top and bottom half of the buoy line in (color below)
Colors		
Maine	Purple (as of 09/2020)	Purple
New Hampshire	Red	Yellow
Massachusetts	Red & White (LMA1) Red & Black (LMA2) Red & Yellow (Outer Cape)	Red
Rhode Island	Red & Blue	Silver/Gray



800 North State Street, Suite 201, Dover, DE 19901 Phone: 302-674-2331 | FAX: 302-674-5399 | www.mafmc.org Michael P. Luisi, Chairman | P. Weston Townsend, Vice Chairman Christopher M. Moore, Ph.D., Executive Director

#### MEMORANDUM

**Date:** January 26, 2021

To: Council

From: José Montañez, staff

**Subject:** Upcoming February Council meeting – Aquaculture update

On Wednesday, February 10<sup>th</sup> from 10:30 a.m. to 12:00 p.m. an aquaculture update will be made to the Council.

We will have a presentation from Danielle Blacklock on aquaculture topics in E.O. 13921 (Promoting American Seafood Competitiveness and Economic Growth), including Aquaculture Opportunities Areas (AOAs; an AOA is a small defined geographic area that has been evaluated to determine its potential suitability for commercial aquaculture. NOAA will use a combination of scientific analysis and public engagement to identify areas that are environmentally, socially, and economically appropriate for commercial aquaculture. For additional background information on AOAs visit: <a href="https://www.fisheries.noaa.gov/aquaculture-opportunity-areas">https://www.fisheries.noaa.gov/aquaculture-opportunity-areas</a>). Danielle Blacklock oversees the aquaculture component of NOAA's sustainable seafood portfolio. She leads the office's work on regulation and policy, science, outreach, and international activities in support of U.S. aquaculture. She received her M.S. in Marine Affairs from the University of Washington, and her B.S. in Marine Science from the University of Maine.

Then, Kevin Madley will provide a regional EEZ aquaculture status update. Kevin is an Aquaculture Coordinator for the Greater Atlantic Region, based in Gloucester, Massachusetts. He works with federal and state agencies, industry, and members of the scientific, academic, and NGO communities on a variety of marine aquaculture issues. Kevin earned his B.S. and M.S. degrees in Biological Sciences from the University of South Florida.



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#### MEMORANDUM

**Date:** January 28, 2021

To: Council

From: J. Didden

**Subject:** River Herring/Shad (RH/S) Cap White Papers

Several topics have repeatedly surfaced during discussions about the RH/S cap in recent years. To facilitate either progress or closure regarding these topics, staff drafted the attached white papers for Council consideration: 1) potential cap alignment with New England, 2) spatial considerations, and 3) ways to modify the cap based on biological indicators of abundance. Staff will review the papers and request guidance from the Council on which topics (if any) to further develop.



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#### MEMORANDUM

**Date:** January 28, 2021

To: Council

From: J. Didden

**Subject:** Potential Joint Mid-Atlantic Fishery Management Council (MAFMC) and New

England Fishery Management Council (NEFMC) River Herring and Shad (RH/S)

Cap(s)

#### **Current Caps**

MAFMC: The current MAFMC RH/S cap for the Atlantic mackerel (simply "mackerel" hereafter) fishery originated from historical encounter rates to incentivize RH/S avoidance by the mackerel fishery, or close the mackerel fishery once the cap is reached. Encounter rates from 2005-2012 data were used to set the cap so that if the fishery achieves a RH/S encounter *rate* lower than the 2005-2012 median, then the fishery should be able to catch the mackerel quota. Co-landings of mackerel and other species (mostly Atlantic herring) are considered and integrated into both cap setting and monitoring. The total landings of all species on cap trips are combined with the in-season RH/S rate to calculate cap usage through each year<sup>1</sup>. While the cap was set to account for the mixed nature of the fishery, such accounting is approximate because the species mixing varies from year to year. At the current RH/S cap (129 MT<sup>2</sup>), if typical mixing of mackerel and other species occurs, the fishery should be able to catch the mackerel quota if the RH/S encounter rate on cap trips stays below half a percent (0.50%) of total retained catch.

As the mackerel quota has varied, so has the RH/S cap amount (it was originally 236 MT in 2014), theoretically preserving a similar incentive to avoid RH/S each year<sup>3</sup>. Since there is little quantitative information on the impact of ocean bycatch on RH/S stocks, and there is ongoing debate about what stressors most impact RH/S stocks, the MAFMC's approach has focused on generally incentivizing avoidance. Given the high variability in interannual distributions in the NEFSC trawl survey, the relatively small quantities of RH/S involved, and the effects on precision of low observer coverage, the MAFMC did not further divide the mackerel RH/S cap by gears and/or areas.

<u>NEFMC</u>: The NEFMC uses four RH/S caps for the Atlantic herring fishery: Cape Cod Midwater Trawl, Gulf of Maine Mid-water Trawl, Southern New England Bottom Trawl, and

<sup>1</sup> NMFS recommended during cap development that extrapolating based on total kept fish had less potential for bias than using just a targeted species' landings.

<sup>&</sup>lt;sup>2</sup> One metric ton (MT) equals about 2204.6 pounds.

<sup>&</sup>lt;sup>3</sup> The level of interaction is also dependent on RH/S abundances, which are not accounted for so far.

Southern New England Mid-water Trawl. The NEFMC caps are also based on historical estimates; 2008-2014 are considered the "reference period" before RH/S catch caps were implemented.<sup>4</sup> The NEFMC's general approach has been to cap to reference period catch amounts, so the Atlantic herring fishery's RH/S caps have been largely static despite substantial changes in the Atlantic herring quotas. The four NEFMC caps have totaled 361 MT since the 2016 fishing year (originally 312 MT 2014-2015).

#### Cap Performance

Details on cap performance can be found in recent Council documents-<a href="https://www.mafmc.org/s/Tab11">https://www.mafmc.org/s/Tab11</a> RHS-Update 2019-08.pdf for mackerel and at <a href="https://s3.amazonaws.com/nefmc.org/Final-white-paper-on-River-herring-and-Shad.pdf">https://s3.amazonaws.com/nefmc.org/Final-white-paper-on-River-herring-and-Shad.pdf</a> for Atlantic herring. In general the caps appear to have been performing as intended – RH/S catch has been below the caps in most instances, and when closures have been triggered the final estimates have been relatively close to the cap amount. Because of the overlap in the mackerel and Atlantic herring fisheries, and because fish on one trip are sometimes counted against both the mackerel and Atlantic herring caps (as planned and accounted for), the mackerel and Atlantic herring cap totals <a href="cap">can't</a> be added. Given the different approaches taken by the two Councils, there is no "allocation" of a total amount of RH/S between the caps. Each Council has taken a different approach to the caps in the absence of information about coastwide fishing mortality and abundance.

Implementation of the caps coincides with reduced at-sea RH/S catch estimates (combined, all gear types). The average/median catches from the 2005-2012 mackerel base years were 535 MT/483 MT while the average/median catches since the cap implementation with available estimates (2014-2018) were 281 MT/255 MT (see Council documents linked above). It is not clear if this trend (a reduction by nearly half) is coincidental or causally linked to the RH/S caps, but much of the core fleet has been active in real-time communication efforts to avoid RH/S (https://www.umassd.edu/smast/bycatch/).

#### Joint and/or Aligned Caps

The designed double counting and differential cap usage from year to year among the various caps result in ongoing consideration of further coordination. A disconnect between bycatch estimate amounts by fishery (the caps) and by gear/area fleet (SBRM) may also occur. From MAFMC staff's perspective however, unless there is first a more fully aligned joint policy goal there may not be much utility in pursuing joint caps. Given their current approaches, one Council or the other seems likely to view a particular joint cap amount as overly or insufficiently restrictive. While NMFS could be given the authority to unilaterally resolve cap specification differences (as currently exists for spiny dogfish), it is not clear that the two Councils would want to assign this reconcilement task to NMFS.

If the Councils want to further pursue joint or aligned caps, simultaneous actions (either Amendments or Frameworks) could develop the exact mechanisms, likely with cap trip definitions rooted in a combined amount of mackerel and/or Atlantic herring by area and/or gear (or only using area and gear definitions). The actions would also need to describe the procedures

Δ

<sup>&</sup>lt;sup>4</sup> Both Councils have decided not to update bycatch rates using data from more recent years when the fisheries have been under a cap as doing so could provide incentive for fishermen to actually increase their RH/S catch (to then get a higher cap), or penalize the fishery for having reduced RH/S catch.

for NMFS to resolve instances where the two Councils cannot agree on annual joint cap amounts. There would likely need to be adjustments to the timing of specifications and more time may need to be built-in for both Councils to consider joint caps, or the RH/S catch caps could be set separately from the traditional specifications. Either case would likely require additional staff resources.

In conclusion, staff can envision mechanisms that could make the caps joint, but it is not clear what benefits directly related to RH/S catch reduction would be served by such mechanisms. Setting clear purposes and aligned policy goals for a joint cap would seem a necessary first step before expending the considerable effort that would be needed for linked Council actions, associated rulemaking, and ongoing future reconcilements.



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#### MEMORANDUM

**Date:** January 28, 2021

To: Council

From: J. Didden

**Subject:** River Herring and Shad (RH/S) Spatial Considerations

Staff examined NMFS <u>observer</u> data from three time periods for this analysis: 2008-2011, 2012-2015, and 2016-2019. These time groupings were the "analyst's choice," to balance increasing the number of observations in a group versus the potential to see change (or consistency) over time. For this initial analysis, staff used all available observer data (no trip definition to limit data), and simply binned combined RH/S catch by ten-minute squares (TMS). There was no extrapolating (by area or gear type), so the results are impacted/biased by the observer deployment protocols (the Standardized Bycatch Reporting Methodology (SBRM)) and fishing effort. This admittedly simple approach seemed like a reasonable first step, and makes use of the most observer data possible – all trips with any recorded RH/S catch were included. Table 1 summarizes the trips that had some catch of RH/S by gear type. Like the spatial analysis, the summary trip counts are influenced by observer coverage levels.

Table 1. Included trips by gear type, which is also the number of trips that had any recorded RH/S catch.

Gear	2008-2011	2012-2015	2016-2019
Bottom Trawl	1,072	1,295	2,005
Gill Net	203	353	310
Mid-Water Trawl	199	107	46
Other	27	27	18

The TMSs (about 100 square miles each) were sorted from most to least RH/S catch, and then grouped and labeled "1", "2," "3," or "4." The TMSs with the most RH/S catch that totaled at least 25% of the RH/S catch for a time period were labeled "1s." In a time period, it may have been a single TMS, or several TMSs to make up that first 25% of observed RH/S catch (raw data). For each following group/label (2,3,4), the other TMSs that account for the next 25% of catch are grouped and labeled similarly. Since the TMSs are first sorted from high to low catch, it takes relatively few initial TMSs (which have the highest catch) to get the first 25% of total catch (group 1), more TMSs to get the next 25% of total catch (group 2), and so on. So there are few of the darkest blue TMSs and more lighter blue TMSs.

There do seem to be some areas that have repeated higher RH/S catches common among two or three time periods. Staff noted (subjective visual inspection and drawing by staff) four areas with

green dashed outlined boxes in the figures below that appear to have repeated higher RH/S catches. As was considered with previous actions, the real effects of closing any area mostly depend on how the relevant fisheries respond to closures, and the proportions of both the targeted species and RH/S in the areas where any re-directed effort ends up. If a fishery is pushed into an area with lower abundance of RH/S but where the targeted species is scarce, the net effect could increase total RH/S catch if the fishery expends additional effort to compensate. Nevertheless, the four highlighted areas accounted for 65% of observed RH/S catch in 2008-2011, 61% in 2012-2015, and 57% in 2016-2019. In addition, most (74%-89%) of the RH/S in those four areas occurred during the months of January, February, November, and December. For reference, the approved (effective February 10, 2021) NEFMC inshore midwater trawl restricted areas are also included in Figure 4.

If the Council would like to explore this issue further, staff recommends that the Council request revenue maps from the NEFSC (like were done for the coral amendment) for small mesh bottom trawl and mid-water trawl gear corresponding to these time periods (January, February, November, and December of 2008-2011, 2012-2015, and 2016-2019). Then with those maps, staff could gather input from the advisory panel during planned 2021 meetings on whether possible restrictions in these times/areas could facilitate the fishery avoiding RH/S while still catching the relevant quotas (or whether restrictions could just re-shuffle effort in an inefficient manner). Based on the revenue maps and AP input, the Council could then consider whether to evaluate potential time-area closures in a 2022 action, with additional analysis conducted by an FMAT.

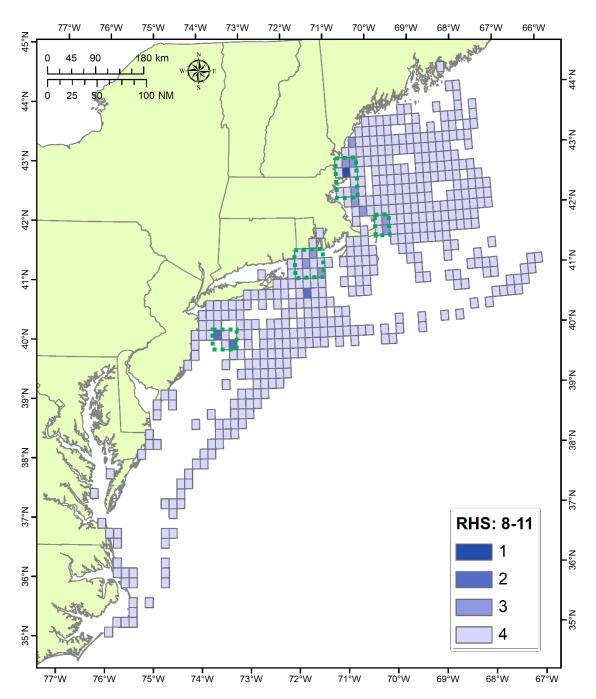


Figure 1. RH/S catch density (raw data) in 2008-2011 observer data, all gears. 1 = those ten minute squares that had highest RH/S catch and accounted for 25% of total observed RH/S catch, and so on for other quartiles of total RH/S catch and less dense groups of ten minute squares. Staff noted (subjective visual inspection and drawing by staff) four areas with green dashed outlined boxes that appeared to have repeated higher RH/S catches.

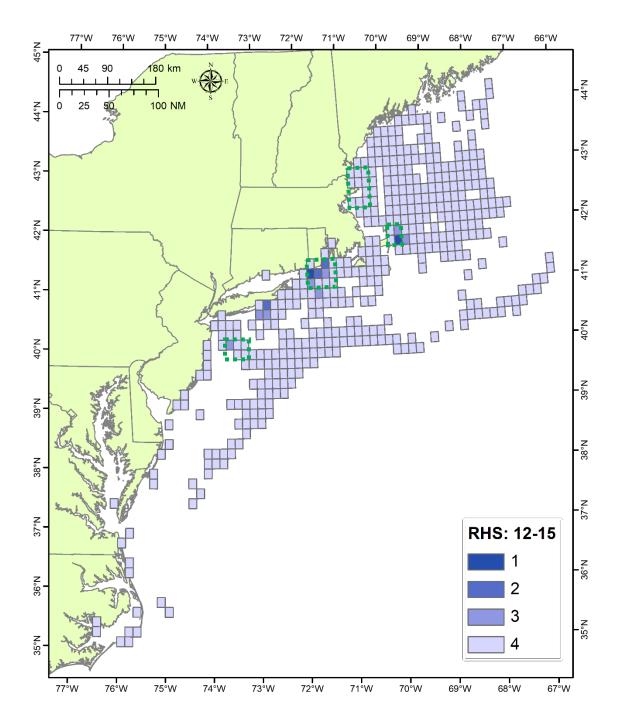


Figure 2. RH/S catch density (raw data) in 2012-2015 observer data, all gears. 1 = those ten minute squares that had highest RH/S catch and accounted for 25% of total observed RH/S catch, and so on for other quartiles of total RH/S catch and less dense groups of ten minute squares. Staff noted (subjective visual inspection and drawing by staff) four areas with green dashed outlined boxes that appeared to have repeated higher RH/S catches.

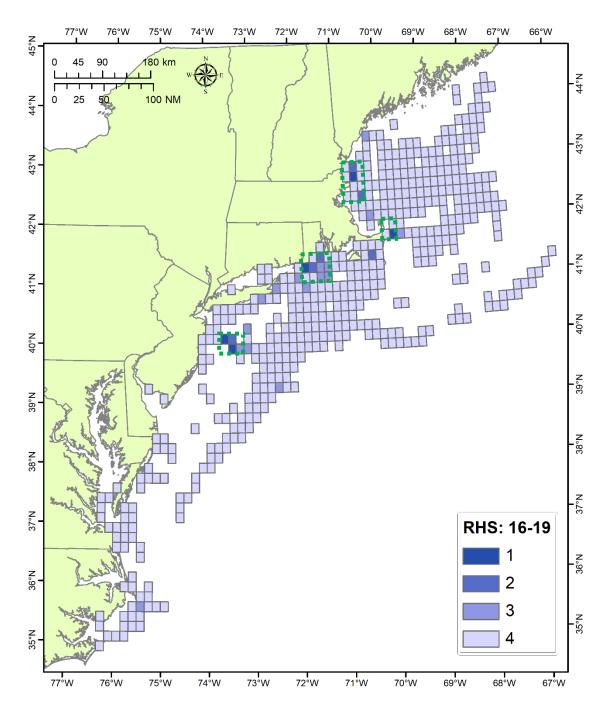


Figure 3. RH/S catch density (raw data) in 2016-2019 observer data, all gears. 1 = those ten minute squares that had highest RH/S catch and accounted for 25% of total observed RH/S catch, and so on for other quartiles of total RH/S catch and less dense groups of ten minute squares. Staff noted (subjective visual inspection and drawing by staff) four areas with green dashed outlined boxes that appeared to have repeated higher RH/S catches.

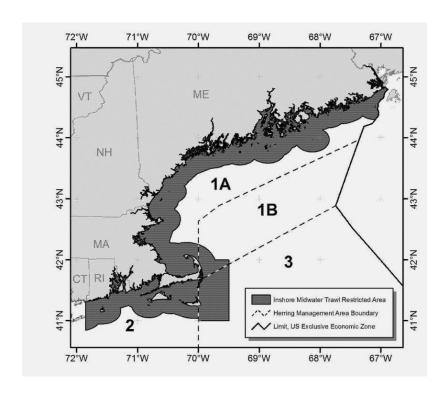


Figure 4. NEFMC Inshore Midwater Trawl Restricted Area (Effective February 10, 2021)



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#### MEMORANDUM

**Date:** January 28, 2021

To: Council

From: J. Didden

**Subject:** Modification of River Herring and Shad (RH/S) Cap based on Biological

**Indicators** 

#### Current Cap

The current MAFMC RH/S cap for the Atlantic mackerel (simply "mackerel hereafter) fishery originated from historical rates to incentivize RH/S avoidance by the mackerel fishery, or close the mackerel fishery once the cap is reached. Encounter rates from 2005-2012 data were examined, and the cap is set such that if the fishery achieves a RH/S encounter *rate* lower than the median of what occurred from 2005-2012, then the fishery should be able to catch the mackerel quota.

Co-landings of mackerel and other species (mostly Atlantic herring) are considered. The <u>total</u> landings of all species on a cap trip are combined with the in-season RH/S rate to calculate cap usage through each year<sup>1</sup>. While the cap was set to account for the mixed nature of the fishery, such accounting is approximate because the species mixing varies from year to year. At the current RH/S cap (129 MT<sup>2</sup>), if typical mixing of mackerel and other species occurs, the fishery should be able to catch the mackerel quota if the RH/S encounter rate on cap trips stays below *half a percent* (0.50%) of total retained catch.

As the mackerel quota has varied, so has the RH/S cap amount (it was originally 236 MT in 2014), theoretically preserving a similar incentive to avoid RH/S each year. Besides fleet behavior, the level of interaction is also dependent on RH/S abundance trends, which are not accounted for so far. So if RH/S abundances were to substantially decline then it would be easier to stay within the cap, and if RH/S abundances were to substantially increase then it would be harder to stay within the cap.

The implementation of the RH/S caps coincides with reduced RH/S catch estimates. The average/median catches from the 2005-2012 mackerel base years were 535 MT/483 MT while the average/median catches since the cap implementation with available estimates (2014-2018) were 281 MT/255 MT (<a href="https://www.mafmc.org/s/Tab11\_RHS-Update\_2019-08.pdf">https://www.mafmc.org/s/Tab11\_RHS-Update\_2019-08.pdf</a>). It is not clear if this relationship (a reduction by nearly half) is coincidental or causal. The reduction

<sup>1</sup> NMFS recommended during cap development that extrapolating based on total kept fish had less potential for bias than using just a targeted species' landings.

<sup>&</sup>lt;sup>2</sup> One metric ton (MT) equals about 2204.6 pounds.

could be due to fleet avoidance behavior and closures, or it could be due to changing RH/S abundances/availabilities.

If there were quantitative coastwide assessments for all four RH/S species, then the trends in RH/S populations from 2005 to current could be examined and inform the setting of the RH/S cap. However, the assessments take a river-level approach given the species' stock structures (and there is no hickory shad assessment).

During 2020 Mackerel, Squid, and Butterfish (MSB) Monitoring Committee work, Council staff considered if there might be sufficient survey information available to inform the RH/S cap even if no quantitative coastwide information was available. The most representative single survey for coastwide abundance is the NEFSC spring trawl survey. While there does appear to be an upward trend in combined river herring and American Shad indices, Council staff, after consulting with Kiersten Curti of the NEFSC (who has been the NEFSC lead on both mackerel and RH/S issues), recommends against scaling the RH/S cap based just on the trend of the NEFSC survey. Given the pelagic and diadromous life history of these species, the assumption of constant RH/S catchability/availability necessary to interpret temporal trends is likely violated. However, staff does think that analyses to combine Bigelow, NEAMAP, and possibly state coastal surveys, may be fruitful, and the VAST (Vector Autoregressive Spatio-Temporal) models being developed by the NEFSC could potentially be applied to such an analysis. Staff thus recommends that the Council request that the NEFSC investigate whether the VAST model approach could be brought to bear to consider whether a series of combined RH/S indices could provide information on combined RH/S abundance trends, which could then inform RH/S cap setting.



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#### **MEMORANDUM**

**Date:** January 20, 2021

**To:** Council and Board

**From:** Matthew Seeley, Council staff

**Subject:** Bluefish Allocation and Rebuilding Amendment

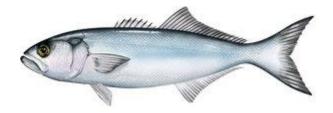
The Council and Board are developing an amendment to the Bluefish Fishery Management Plan to address several issues in the bluefish fisheries. The Council and Board approved a final range of alternatives for public hearings at the 2020 joint October meeting. The Fishery Management Action Team (FMAT) then met in January 2021 to complete the draft public hearing document. The goal for the February  $10^{th}$  meeting (1:00 – 4:00 p.m.) is to approve the draft public hearing document for public comment.

The following briefing materials are enclosed on this topic:

- Bluefish Allocation and Rebuilding Amendment Draft Public Hearing Document dated for February 2021.
- 2) FMAT Meeting Summary dated January 20, 2021.
- 3) Action Plan updated as of September 2020.

## Atlantic Bluefish Allocation and Rebuilding Amendment

### DRAFT PUBLIC HEARING DOCUMENT



## February 2021

Prepared by the
Mid-Atlantic Fishery Management Council (MAFMC or Council)
and the
Atlantic States Marine Fisheries Commission (ASMFC or Commission)





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# 2.0 INSTRUCTIONS FOR PROVIDING PUBLIC COMMENTS

The Mid-Atlantic Fishery Management Council (MAFMC or Council) and the Atlantic States Marine Fisheries Commission (ASMFC or Commission) will collect public comments on the Bluefish Allocation and Rebuilding Amendment during [# TBD] public hearings to be held [time frame], and during a written public comment period extending until [date TBD]. Written comments may be sent by any of the following methods:

- 1. **Online** at [link to be added]
- 2. **Email** to the following address: [*email TBD*]
- 3. Mail or Fax to:

Chris Moore, Ph.D., Executive Director Mid-Atlantic Fishery Management Council 800 North State Street, Suite 201 Dover, DE 19901

FAX: 302.674.5399

If sending comments through the mail, please write "Bluefish Allocation and Rebuilding Amendment" on the outside of the envelope. If sending comments through email or fax, please write "Bluefish Allocation and Rebuilding Amendment" in the subject line.

All comments, regardless of submission method, will be compiled for review and consideration by both the Council and Commission. It is not necessary to separately submit comments to the Council and Commission or submit the same comments through multiple channels.

Interested members of the public are encouraged to attend any of the following [# TBD] public hearings and to provide oral or written comments at these hearings.

<b>Date and Time</b>	Location
Day, Date Time	Location Address

For additional information and updates, please visit: <a href="https://www.mafmc.org/actions/bluefish-allocation-amendment">https://www.mafmc.org/actions/bluefish-allocation-amendment</a>. If you have any questions, please contact either:

#### **Council contact**

Matthew Seeley, Mid-Atlantic Fishery Management Council <u>mseeley@mafmc.org</u> 302-526-5262

## **Commission contact**

Dustin Colson Leaning, Atlantic States Marine Fisheries Commission dleaning@asmfc.org 703-842-0714

## 3.0 INTRODUCTION AND AMENDMENT PURPOSE

# 3.1 Amendment Purpose and Next Steps

The purpose of this amendment is to consider modifications to the Fishery Management Plan (FMP) goals and objectives, current allocations between the commercial and recreational sectors,

current commercial allocations to the states, initiate a rebuilding plan, revise the quota transfer processes, revise how the FMP accounts for management uncertainty, and revise de minimis provisions in the Commission's plan.

The current sector-based and commercial state-to-state allocations were set in 2000 using data from 1981-1989 and have not been revised since that time. Recreational catch and harvest data are provided by the Marine Recreational Information Program (MRIP). In July 2018, MRIP released revisions to their time series of catch and harvest estimates based on adjustments for a revised angler intercept methodology (used to estimate catch rates) and a new effort estimation methodology (namely, a transition from a telephone-based effort survey to a mail-based effort survey). These revisions resulted in much higher recreational catch estimates compared to previous estimates, affecting the entire time series of data going back to 1981. These data revisions have management implications due to the fixed commercial/recreational allocation percentages defined in the FMP. These allocation percentages do not reflect the current understanding of the recent and historic proportions of catch and landings from the two sectors. Since these allocation percentages are defined in the Council and Commission FMPs, they cannot be modified without an FMP amendment. This amendment will consider whether the allocations are still appropriate and meeting the objectives of the FMP. In reviewing/adjusting the allocations, the need for transfers may be reduced, however, improvements to the transfer processes will also be reviewed.

Bluefish was deemed overfished with overfishing not occurring as a result of the 2019 Operational Assessment. Therefore, the Council is mandated to initiate a rebuilding plan within two years of notice by the Greater Atlantic Regional Fisheries Office (GARFO) Regional Administrator. Under a rebuilding plan, the stock will be considered rebuilt once spawning stock biomass reaches the target biomass (spawning stock biomass maximum sustainable yield proxy) of 198,717 mt. The Magnuson-Stevens Fishery Conservation and Management Act (MSA) requires the overfished stock to be rebuilt within ten years once the regional office notifies the Council of the overfished state. Under the current amendment timeline, the rebuilding plan would be implemented at the beginning of 2022.

Several other issues identified during scoping for this action were considered by the Council and Board for inclusion in this amendment but have since been removed. Some of those issues will be taken up through other initiatives or actions. More information on removed issues is available in past meeting documents and meeting summaries for this amendment, available at: <a href="https://www.mafmc.org/actions/bluefish-allocation-amendment">https://www.mafmc.org/actions/bluefish-allocation-amendment</a>.

#### What Happens Next?

This document supports a series of public hearings and a public comment period scheduled to take place during [March/April 2021]. Following public hearings, written and oral comments will be compiled and provided to the Council and Board for review. These comments will be considered prior to taking final action on the amendment, which is tentatively scheduled for May/June 2021. The Council's recommendations are not final until they are approved by the Secretary of Commerce through the National Marine Fisheries Service, so the timing of full implementation of this action will depend on the federal rulemaking timeline. This rulemaking process is expected to occur in 2021, with the intent for revised measures (if applicable) to be effective at the start of the 2022 fishing year.

## 4.0 FISHERY MANAGEMENT PLAN GOALS AND OBJECTIVES

The Council and Board are considering revisions to the existing FMP goals and objectives for bluefish through this amendment. The no action/status quo option keeps the existing FMP goals and objectives that were developed in 1991. The proposed FMP goals and objectives include revisions based on input provided by the public, bluefish advisory panel members, and Council and Board members.

<u>Please note:</u> While these revisions are not included as an explicit alternative within this amendment, the proposed revisions are not final until approved by the Council and Board. The Council and Board are seeking feedback from the public on the proposed revisions during the public hearing process.

# 4.1.1 Current Fishery Management Plan Goals and Objectives

Goal: Conserve the bluefish resource along the Atlantic coast.

**Objective 1:** Increase understanding of the stock and of the fishery.

**Objective 2:** Provide the highest availability of bluefish to U.S. fishermen while maintaining, within limits, traditional uses of bluefish.

**Objective 3:** Provide for cooperation among the coastal states, the various regional marine fishery management councils, and federal agencies involved along the coast to enhance the management of bluefish throughout its range.

**Objective 4:** Prevent recruitment overfishing.

**Objective 5:** Reduce the waste in both the commercial and recreational fisheries.

# 4.1.2 Impacts of Maintaining Current Fishery Management Plan Goals and Objectives

Under the status quo option, the Bluefish FMP goals and objectives would remain unchanged. According to the summary of public comments submitted during the scoping hearing process, only 10% of submitted comments were in support of the status quo. More than half (55%) of submitted comments were in favor of re-evaluating and/or revising the FMP goals and objectives. About 13% of comments did support maintaining one or more of the current goals and objectives, but not the entirety of those listed under the status quo option.

# 4.2.1 Proposed Fishery Management Plan Goals and Objectives

**Goal 1:** Conserve the bluefish resource through stakeholder engagement to maintain sustainable recreational fishing and commercial harvest.

**Objective 1.1:** Achieve and maintain a sustainable spawning stock biomass and rate of fishing mortality.

**Objective 1.2:** Promote practices that reduce discard mortality within the recreational and commercial fishery.

**Objective 1.3:** Maintain effective coordination between the National Marine Fisheries Service, Council, Commission, and member states by promoting compliance and to support the development and implementation of management measures.

**Objective 1.4:** Promote compliance and effective enforcement of regulations.

**Objective 1.5:** Promote science, monitoring, and data collection that support and enhance effective ecosystem-based management of the bluefish resource.

**Goal 2:** Provide fair and equitable access to the fishery across all user groups throughout the management unit.

**Objective 2.1:** Ensure the implementation of management measures provides fair and equitable access to the resource across to all groups along the coast.

**Objective 2.2:** Consider the economic and social needs and priorities of all groups that access the bluefish resource in the development of new management measures.

**Objective 2.3:** Maintain effective coordination with stakeholder groups to ensure optimization of economic and social benefits.

# 4.2.2 Impacts of Revising the Fishery Management Plan Goals and Objectives

The proposed changes and additions to the Bluefish FMP goals and objectives are anticipated to have neutral to positive social impacts <sup>1</sup> to bluefish fishery stakeholders. The majority of comments submitted during the scoping process were in support of revising the goals and objectives altogether and an even larger majority supported revising at least some of the current goals and objectives. The proposed Goal 1 commits to stakeholder engagement in the interest of maintaining sustainable recreational fishing and commercial harvest. A commitment to stakeholder engagement is likely to improve attitudes about the FMP among bluefish fishery stakeholders. The proposed Goal 2 ensures fair and equitable access to the fishery across all user groups. According to Crew Survey results in 2012 and 2018, the majority of commercial crew and hired captains reported that they believe the regulations in their primary fishery are too restrictive and fewer than half agree that the fines associated with breaking the rules are fair. For at least the commercial harvest user group, the proposed Goal 2, ensuring fair and equitable access, would likely have positive impacts on their attitudes towards the FMP and its objectives. There may be positive or negative social impacts to the various recreational angling sectors as the Council and Board consider mode-specific regulations.

# 5.0 COMMERCIAL/RECREATIONAL ALLOCATION ALTERNATIVES AND IMPACTS

Section 5.1 describes the alternatives for commercial and recreational allocations for bluefish, along with their expected impacts. The range of allocation alternatives includes options that would maintain the current allocations, as well as options to revise allocations based on updated data using modified base years. Section 5.2 describes options to phase in any allocation changes over multiple years, and the expected impacts of these phase-in provisions.

Under the current FMP for bluefish, the Acceptable Biological Catch (ABC) equals the fishery level Annual Catch Limit (ACL), which is then divided into a commercial and recreational Annual Catch Target (ACT) based on the allocation percentages defined in the FMP. Sector-specific expected discards are subtracted from the sector-specific ACTs to derive a commercial quota and a Recreational Harvest Limit (RHL).

Commercial discards are considered negligible within the bluefish fishery (NEFSC 2015). Recreational discards are estimates based on the MRIP B2s (released alive). Managers assume a 15% mortality rate on the released alive fish (NEFSC 2015). The number of fish are converted to

<sup>&</sup>lt;sup>1</sup> Social impacts are impacts that directly affect the human communities with focus outside of the economics (Appendix A).

weight by multiplying by the average weight of landed fish coastwide in a given year. This approach assumes that the weight of released fish is equal to the weight of landed fish.

Aside from the status quo option (alternative 2a-1), the following approaches revise the allocation percentages based on modified base years or different data sets.

#### 5.1 Commercial/Recreational Allocations

#### **5.1.1** Commercial/Recreational Allocation Alternatives

Table 1 lists the alternatives under consideration for the commercial and recreational bluefish allocation percentages based on both catch and landings data. The current allocations for bluefish are based on commercial and recreational landings data from 1981-1989 that have not been updated with a renewed understanding of historic fishery performance. The current allocations for bluefish are represented by the no action/status quo alternative (alternative 2a-1, highlighted in green in Table 1).

Table 1: Bluefish commercial/recreational allocation alternatives. The current allocations are highlighted in green.

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Allocation Percentages				
Alternative	Basis			
2a-1: 83% recreational, 17% commercial	No action/status quo (1981-1989 landings data)			
2a-2: 89% recreational, 11% commercial	Multiple approaches: 2014-2018 and 2009-2018 catch data			
2a-3: 87% recreational, 13% commercial	1999-2018 catch data			
2a-4: 86% recreational, 14% commercial	Multiple approaches: 1981-2018 catch data; 2014-2018 and 2009-2018 landings data			
2a-5: 84% recreational, 16% commercial	Multiple approaches: 1981-2018 and 1999-2018 landings data			

## **5.1.2** Impacts of Commercial/Recreational Allocation Alternatives

Alternatives 2a-2 through 2a-5 result in lower commercial allocations and higher recreational allocations compared to the no action/status quo alternative (2a-1). Table 2 compares the commercial and recreational allocation alternatives by displaying the percent change in allocation share from the status quo alternative. The relative percent change to each sector's allocation differs notably. Since the commercial sector's share of the fishery-level ACL is much smaller by comparison to the recreational sector's share, any changes to the allocation percentages have a larger impact on the commercial sector relative to the impact on the recreational sector.

Table 2: Percent change (in green and red) of commercial and recreational allocations for each alternative relative to status quo. The grey boxes refer to the status quo alternative.

Alternative	2a-1	2a-2	2a-3	2a-4	2a-5
Proposed Recreational Allocation	83%	89%	87%	86%	84%
% Change from Status Quo	0%	+7%	+5%	+4%	+1%
Proposed Commercial Allocation	17%	11%	13%	14%	16%
% Change from Status Quo	0%	-35%	-24%	-18%	-6%

An increase in the recreational allocation would result in increased RHLs compared to the current allocations. RHLs are tied to recreational measures such as possession limits, fish size restrictions, and open/closed seasons. These measures are adjusted as needed to allow the RHL to be achieved, but not exceeded. Depending on the magnitude of the increase, an increased recreational allocation may not allow for liberalized recreational management measures compared to recent years in all cases. In some cases, recreational restrictions may still be needed if the allocation increase is not enough to account for recent increases in the MRIP harvest estimates.

Liberalizing or restricting recreational measures can impact angler access to bluefish. Increased access could take the form of more fish to take home (under higher possession limits and/or lower minimum fish sizes) and more opportunities to target the species (under longer open seasons), while decreased access could mean the ability to retain fewer fish and reduced opportunities to target the species. This can affect angler satisfaction, revenues for for-hire businesses (e.g., by impacting demand for for-hire trips), and revenues for support businesses such as bait and tackle shops.

With respect to the commercial sector, alternatives other than status quo will result in lower quotas relative to status quo with impacts described below.

## **Social Impacts**

Alternative 2a-1 is anticipated to have positive social impacts for commercial stakeholders in general due in part to the support for the status quo from written and oral comments received during the amendment scoping process. The plurality of comments (41%) supported the status quo on Issue 2: Commercial/Recreational Allocation (MAFMC et al 2020). Moreover, the majority of commercial crew surveyed in both the 2012 and 2018 Crew Surveys reported that the rules and regulations change so quickly that it can be hard to keep up. While these results are not necessarily representative of bluefish commercial crew in general, they do align with the overall sentiment supporting the status quo among those who provided comment during the scoping process.

Alternative 2a-2 would increase the recreational fishery allocation by 6 percentage points and reduce the commercial allocation by the same amount using 2014-2018 and 2009-2018 catch data. Results from the Commercial Crew Survey indicate that the majority of crew and hired captains believe the rules and regulations in their respective commercial fisheries are too restrictive. An increase in allocation to the recreational sector could allow for a liberalization of measures, potentially providing positive social impacts. Further reducing the commercial allocation could lead to negative impacts with respect to commercial fishers' attitudes towards management, as

well as detrimental impacts on the ability of some fishers to continue to participate in the fishery. According to the Social Performance Indicators<sup>2</sup>, the five most highly engaged communities in the commercial bluefish fishery from 2004 to 2019 are: 1) Montauk, NY; 2) Narragansett/Point Judith, RI; 3) Hampton Bays/Shinnecock, NY; 4) Hatteras, NC; and 5) Wanchese, NC (Figure 1). For commercial bluefish stakeholders located in these ports, the reduction in allocation to the commercial fishery may have the most substantial negative social impacts.

Relative to the status quo alternative, alternative 2a-2 would have positive impacts for recreational user groups, and in particular for those groups in communities that are highly engaged in and reliant upon recreational fisheries. The top fifteen communities in recreational fishing engagement and reliance are displayed in Figure 2 and Figure 3. For a more thorough introduction of community fishing engagement and social vulnerability indicators please reference Appendix A.

These communities are likely to benefit from Alternative 2a-2, but some may see greater positive social impacts based on relative social vulnerabilities and reliance on the recreational industry. Communities in NC in particularly, such as Topsail Beach, Hatteras, and throughout the Outer Banks, have high reliance on recreational fisheries while at the same time moderate to high poverty, labor force vulnerability, and housing vulnerability. Increasing recreational allocations for bluefish could improve economic opportunities and result in positive social outcomes for these communities in particular.

Alternative 2a-3 proposes to set the recreational allocation at 87% and adjust the commercial allocation down to 13%, based on the 1999 to 2018 catch data. Under alternative 2a-4, the recreational allocation would be set to 86% and the commercial allocation would be 14%, based on multiple approaches including 1981-2018 catch data, 2014-2018 landings data, and 2009-2018 landings data. The commercial and recreational impacts described for alternative 2a-2 likely apply to a lesser degree to alternatives 2a-3 and 2a-4 considering that the shifts in allocation from the commercial to the recreational sector are smaller than what is proposed in alternative 2a-2.

Under alternative 2a-5, the recreational allocation would increase slightly from the status quo to 84% and the commercial allocation would correspondingly decrease slightly to 16%. These allocation determinations would be based on multiple approaches using the 1981-2018 and 1999-2018 landings data. Alternative 2a-5 is expected to have neutral to low positive social impacts on the recreational bluefish fishery relative to the status quo, whereas 2a-5 would likely produce neutral to low negative impacts on the commercial fishery as compared to the status quo. While the allocations would change, the increases and decreases for each user group are comparatively minimal to alternatives 2a-2, 2a-3, or 2a-4.

At the community level, impacts may be greatest for communities with or near recreational fishing sites, communities where for-hire businesses are based, and communities with tourism that is impacted by recreational fishing.

<sup>&</sup>lt;sup>2</sup> https://apps-nefsc.fisheries.noaa.gov/socialsci/pm/index.php.

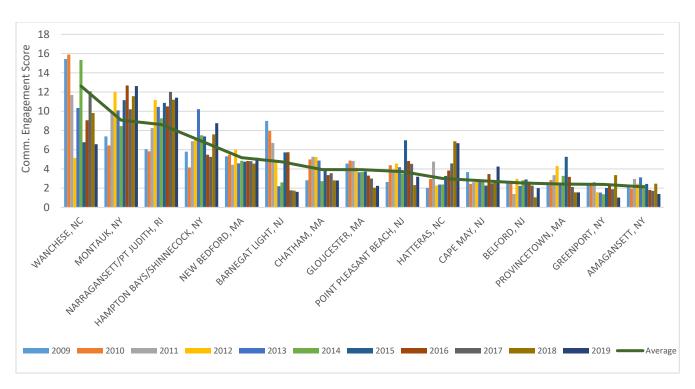


Figure 1: Commercial Bluefish Engagement Scores by Community: Top Fifteen Communities in Average Engagement from 2009-2019.

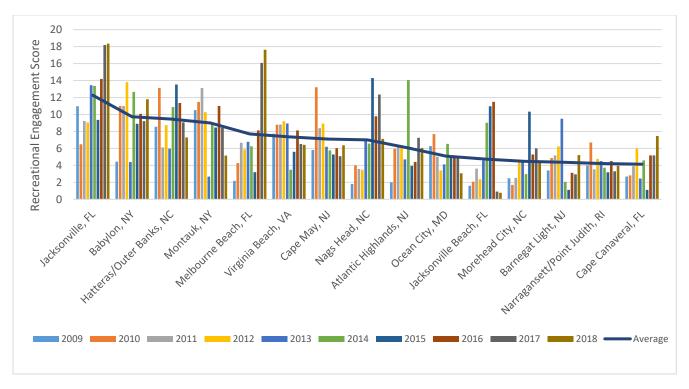


Figure 2: Recreational Fishing Engagement Scores by Community: Top Fifteen Communities in Average Engagement from 2009-2018.

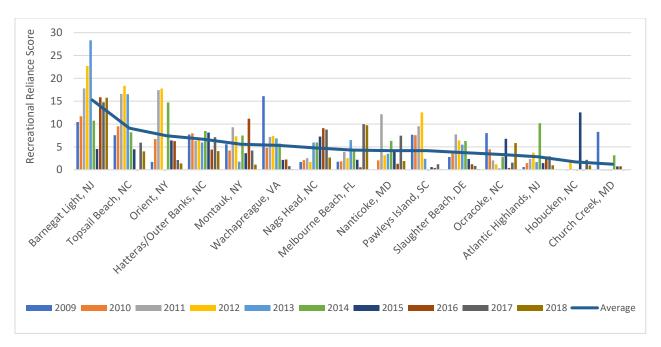


Figure 3: Recreational Fishing Reliance Scores by Community: Top Fifteen Communities in Average Reliance from 2009-2018.

## **Economic Impacts**

Aside from the no action/status quo alternatives, all alternatives result in a reduced allocation to the commercial sector, which is expected to decrease commercial quotas compared to the current allocations. The commercial sector could experience a loss in revenue due to corresponding decreased quotas and a reduction in potential landings of bluefish. However, with the exception of 2020, the commercial sector has not fully utilized its post transfer quota in over a decade, so a decrease in allocation may not necessarily lead to a decrease in commercial landings or revenues in the long term. The economic analysis discussed below looks at historical landings to inform the potential future economic impacts of a reduction in the commercial allocation.

The economic impacts stemming from alterations in the commercial pre-transfer bluefish allocations were assessed using historical realized and predicted bluefish landings for the commercial sector. The time series used spans from 1999-2019 where realized landings are compared to pre-transfer landings across the various proposed sub-alternatives, allocating 17% (i.e., the status quo), 11%, 13%, 14%, or 16% of the ACL to the commercial sector (sub-components 2a-1 to 2a-5, respectively) (Figure 4). A key assumption of this analysis is that all the allocated quota is landed. When comparing the pre-transfer allocated quota to the total realized landings, there are 14 of 95 cases where the pre-transfer quotas exceed the realized landings quantities. Each allocation sub-alternative (2a-1 to 2a-5) contains at least one year in which the pre-transfer commercial allocation exceeds the realized annual commercial landings, suggesting that in these years, the pre-transfer allocation would not have been a limiting factor in landing bluefish. Ultimately, losses in landings resulting from smaller pre-transfer quota allocations

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<sup>&</sup>lt;sup>3</sup> Regulations and catch limits for this fishery are not clearly defined until Amendment 1 (approved in 1999). The year of 2019 was the last full year of data on record when this economic assessment was drafted.

relative to realized landings becomes relevant if transfers from the recreational sector to the commercial sector are discontinued.

Post transfer, projected quotas exceed the realized commercial landings for all alternatives each year except in for 2a-2 and 2a-3 in 2001, 2015 (2a-2 only) and 2016. However, if MRIP recalibration was factored into these years when transfers occurred, the commercial sector may not have actually received any transfers (or the transfers may have been much smaller). Ultimately, if sector transfers are to continue and are not substantially lower than previous years, changes in landings stemming from the pre-sector transfer quota allocations are expected to be minimal.

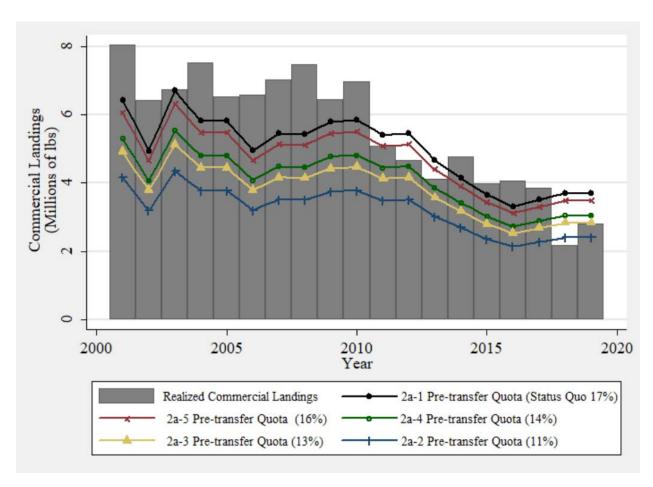


Figure 4: Realized commercial bluefish landings and proposed pre-transfer commercial landings (Millions of lbs.) by sub-allocation alternative and year (2001-2019).

For this analysis, commercial revenues are estimated for allocations under the status quo of pretransfer quota (i.e.,17% of the ACL) and are compared to revenues estimated under the four additional proposed allocation sub-alternatives (2a-2 – 2a-5, 11%,13%,14%, and 16% of the ACL) to provide insight into how allocation changes could impact revenue. Revenues are estimated using the allocated pre-transfer quota percentage and all quota is assumed to be landed. The price model described in Appendix B is used to generate average annual ex-vessel bluefish prices at the various landings levels. The pre-transfer landings are multiplied by the predicted price and presented in 2020 constant dollars as the estimated revenue. Average differences in revenues between the status quo (17% of the ACL) and the additional proposed allocation percentages are presented in Table 3. Over 1999-2019, annual revenues decrease by an average of \$200K (6%), \$590K (18%), \$790K (29%) and \$1.19M (35%) under the 16%, 14%, 13% and 11% commercial allocations relative to the 17% allocation, respectively. Average differences in annual revenues decrease in magnitude when averaged over the last 10 years and further decrease when compared to the 5-year average annual revenue differences driven by relatively lower historical ABC's from 2010-2019. This analysis is informative in the potential average reduction in revenue that may be experienced under each allocation alternative. However, it is important to remember that this analysis assumes that the entire commercial quota be landed, which may not always be the case, especially when considering that commercial quotas will increase substantially as the stock rebuilds back to the biomass target.

Table 3: Average differences in estimated commercial bluefish revenues by pre-transfer alternative relative to the pre-transfer quota status quo (2a-1 vs. 2a-2-5).

**Average Differences in Estimated Revenues** (Millions of 2020 Constant Dollars) 11% 13% 14% 16% **Time Series** Commercial Commercial Commercial Commercial Quota (2a-2) vs Quota (2a-3) vs Quota (2a-4) vs Quota (2a-5) vs 17% Status Quo 17% Status Quo 17% Status Quo 17% Status Quo (2a-1) (2a-1) (2a-1)(2a-1) Averaged over Entire Time Series (1999-2019) -\$1.19M -\$0.79M -\$0.59M -\$0.20M Standard Deviation 0.14 0.09 0.07 0.02 Averaged over Past 10 Years (2010-2019)-\$1.09M -\$0.54M -\$0.72M -\$0.18M Standard Deviation 0.12 0.08 0.06 0.02 Averaged over Past 5 Years (2015-2019)-\$0.98M -\$0.65M -\$0.49M -\$0.16M Standard Deviation 0.03 0.02 0.01 0.00 Average Percent Decrease Relative to Annual Status Quo 35% 24% 18% 6% Revenues

Note: This calculation does not consider transfers from the recreational sector and is based solely on the full utilization of the pre-transfer quota.

(1999-2019)

Impacts from a reduction in commercial quota will not be uniform across all states and commercial industry participants. Commercial fishermen from states that fully utilize quota are more likely to experience losses in revenue, restrictive trip limits, and seasonal closures to account for the reduced

commercial quota. States that have historically underutilized their quota may still be impacted in the medium- to long-term; reduced access to quota may inhibit the ability for market expansion in the future. These states could also be impacted in the near-term depending on the magnitude of allocation reduction. If the commercial allocation is reduced substantially, quotas in some states may drop below what is currently being utilized. Again, the impacts across states are also dependent upon the state commercial allocation alternative selected in section 6.

Ultimately, alternatives 2a-2 through 2a-5 may limit the potential for market expansion and future increases in landings and ex-vessel revenue compared to the status quo alternative (2a-1).

Currently, accountability measures (AM)<sup>4</sup> are implemented when the fishery-level ACL is exceeded, and a transfer was deemed not the cause of the overage. When there has been a sector transfer to the commercial fishery that is larger than the overage, there will be no transfer allowed in the following fishing year unless the transfer amount is smaller than the overage. However, given the bluefish stock is currently overfished, a combination of management measures and a pound for pound payback may be implemented.

Under section 9, management uncertainty is discussed. If alternative 6b is selected, which creates sector-specific ACLs, AMs will be modified to ensure overages by one sector do not affect the other sector, unless a transfer has occurred and was the cause of an overage.

It is difficult to identify and quantify the economic impacts stemming from increases in recreational bluefish quota. Without a demand model, it is impossible to estimate the changes in angler effort and expenditures resulting from quota increases. Qualitatively, increases in recreational bluefish quota is expected to have neutral or slightly positive economic impacts which may result from increases in recreational sector quota. Increases in bag limits might increase angler satisfaction as well as recreational for-hire and independent angler trips which would result in increased expenditures and effort. However, the economic impacts resulting from increases in recreational quota could be neutral given the high catch and release nature of the sector—where the same number of trips may occur despite the changes in quota.

## **Biological Impacts**

As described above, all but the no action/status quo alternatives would reduce the commercial allocations, which would in turn result in lower commercial quotas than the no action/status quo alternatives.

Depending on the scale of the change, a decrease in the commercial quota or additional restrictions on the recreational fishery could lead to altered fishing behavior and increased regulatory discards compared to recent levels. Actual changes will depend on many factors such as weather, availability of other target species, and market demand. Discards are also influenced by availability of bluefish, both overall abundance and by size class. For example, a new large year class can lead to high availability of fish smaller than some states' minimum size for a few years, which can lead to increased regulatory discards. Lower availability of legal-sized fish can lead to decreased discards. For these reasons, it is challenging to predict future discards based on changes in allocations.

<sup>4</sup> Current accountability measures for bluefish can be found in Amendment 4: <u>Bluefish Accountability Measures</u>.

In all cases, total dead catch will continue to be constrained by the overall ABC, which is set based on the best scientific information available and is intended to prevent overfishing. In this way, none of the alternatives are expected to change patterns in landings, discards, or fishing effort in such a way that they negatively impact stock status.

In 2019, the operational stock assessment indicated that the bluefish stock was at 46% of the biomass target level. The stock will begin a rebuilding program in 2022 with the goal of reaching the biomass target within ten years or less.

## 5.2 Allocation Change Phase-In

#### **5.2.1** Allocation Change Phase-In Alternatives

The alternatives listed in Table 4 consider if any changes to the allocation percentages considered through alternative sets 2a should occur in a single year (alternative 2b-1, no phase-in) or if the change should be spread out over 4, 5, or 7 years (alternatives 2b-2). The Council and Board agreed that if alternative 2b-2 is selected, the duration over which new allocations will be phased in will match the duration of the selected rebuilding plan (alternatives 4a-4d). The choice of whether to use a phase-in approach, and the phase-in approach duration, may depend on the magnitude of allocation change proposed. A phase-in period may not be desired if the overall allocation change is relatively small. However, larger allocation changes may be less disruptive to fishing communities if they are phased in over several years (Table 5).

Table 4: Bluefish commercial/recreational allocation change phase-in alternatives.

Phase-in Alternatives
<b>2b-1:</b> No phase-in
<b>2b-2:</b> Allocation change spread evenly over the same duration as the selected rebuilding plan

Table 5: Percent shift in bluefish commercial/recreational allocation per year for 4, 5, and 7-year phase-in options for all allocation change alternatives.

Bluefish Allocation Change Phase-In							
Current	allocation (2a-1): 83% recr	eational, 17% commercia	al				
Allocation Alternatives	Allocation Alternatives 4-year phase-in 5-year phase-in 7-year phase-in						
2a-2: 89% Rec., 11% Comm.	1.5% change per year	1.2% change per year	0.86% change per year				
2a-3: 87% Rec., 13% Comm.	1% change per year	0.8% change per year	0.57% change per year				
2a-4: 86% Rec., 14% Comm.	0.75% change per year	0.6% change per year	0.43% change per year				
2a-5: 84% Rec., 16% Comm.	0.25% change per year	0.2% change per year	0.14% change per year				

#### **5.2.2** Impacts of Allocation Change Phase-In Alternatives

The biological, social, and economic impacts of the phase-in alternatives under consideration in this amendment are dependent on two main factors: 1) the difference between the status quo allocation percentage and the allocation percentage selected, and 2) the duration of the phase-in period, which will be the same duration as the preferred rebuilding plan. Based on the range of allocation percentages for bluefish (Section 5.2.1), the commercial and recreational sector

allocations could shift by as much as 1.5% per year, or as little as 0.2% per year under the above phase-in timeframes of 4-7 years. Ideally, minimal transfers will occur while phasing-in allocations considering reallocation will reflect more up-to-date landings history.

Considering the small range that the phased-in allocations would change over 4-7 years, minimal impacts are expected for the recreational fishery, which already holds the larger share of the ACL. However, a 1.5% shift in allocation away from the commercial sector is a much larger annual impact to the commercial sector relative to its smaller initial allocation. As such, a phase-in approach may slightly reduce the economic burden on commercial stakeholders. A phase-in would most likely have short-term economic benefits in the form of increased landings and revenues over the non-phase in alternative if all else was held constant.

Under Alternative 2b-1, the preferred allocation selected from the 2a set of alternatives will occur in a single year upon implementation. This will likely have a range of social impacts depending upon the alternative selected from the 2a allocation set. Alternative 2b-1 will likely have neutral to low negative impacts on the commercial fishery if alternatives 2a-4 or 2a-5 are selected, but the negative impacts increase substantially if alternatives 2a-2 or 2a-3 are selected due to the abrupt and sizeable change in allocations to the commercial fishery. However, this remains contingent on the continuation of sector transfers and if the transfers decrease in relation to historical transfers given the MRIP update.

By contrast, an abrupt shift from alternative 2b-1 in concert with 2a-2 or 2a-3 could have substantial short-term positive social impacts on the recreational fishery user group. A single year increase of 4-6% in the recreational allocation could provide additional employment and income opportunities, especially in communities most highly engaged in and/or reliant upon recreational fisheries in general (Figure 2 and Figure 3).

Under alternative 2b-2, the new allocation selected from the 2a set of alternatives will be phased in over the period of time that matches the selected rebuilding plan. The phase-in approach of alternative 2b-2 will likely have the most substantial social impacts if alternative 2a-2 is selected, with diminishing impacts across the other alternatives with smaller percent changes in allocations. The 7-year phase-in approach may reduce the negative impacts to the commercial industry the most, with less than a one percent reduction in the commercial allocation per year. For communities that are the most highly engaged in commercial bluefish (Figure 1) a prolonged phase-in approach may buffer against negative social impacts that accompany abrupt employment and income losses that result from the allocation reductions associated with alternatives 2a-2 through 2a-5.

# 6.0 COMMERCIAL ALLOCATIONS TO THE STATES ALTERNATIVES AND IMPACTS

The sections below describe alternatives for commercial allocations of bluefish to the states, along with their expected impacts. The range of allocation alternatives includes options that would maintain the current allocations as well as options to revise them based on updated data using modified base years. Only landings data were used to develop allocation alternatives since commercial discards are considered negligible. Section 6.2 describes options to phase in any allocation changes over multiple years, and the expected impacts of these phase-in provisions. Section 6.3 describes options to implement quota-based triggers that would reallocate any

commercial quota that exceeds a specified threshold, and the expected impacts of those trigger provisions. Section 6.4 describes options to implement minimum default allocations, and the expected impacts of these provisions.

The alternatives in section 6 are mutually exclusive, meaning the Council and Board can only choose one of the alternatives from set 3a, 3b, 3c, and 3d. Considering section 6 contains multiple moving parts, the Fishery Management Action Team (FMAT) recommends that the Council and Board select either a trigger approach or minimum default allocation, but not both. Using too many management tools at once can overcomplicate the process and reduce the benefits associated with just using one approach.

#### 6.1 Commercial Allocations to the States

#### **6.1.1** Commercial Allocations to the States Alternatives

Table 6 lists the alternatives under consideration for the bluefish commercial allocations to the states using only landings data since commercial discards are considered negligible. The percent allocations represent the share of coastwide quota that is annually allocated to each state. The current allocations are represented by the no action/status quo alternative (alternative 3a-1, highlighted in green in Table 6), which was set through Amendment 1 using General Canvass Data.

Table 6: State-by-state commercial bluefish allocations along the U.S. Atlantic coast using different proposed time series. Percentages sum to > 100% due to rounding; actual allocations will not exceed 100% of quota.

	Landings-Based Allocation Alternatives						
	3a-1	3a-2	3a-3	3a-4			
State	No action/ Status quo (1981-1989)	5 year (2014-2018)	10 year (2009-2018)	1/2 '81-'89 1/2 '09-'18			
ME	0.67%	0.00%	0.01%	0.49%			
NH	0.41%	0.03%	0.12%	0.33%			
MA	6.71%	10.64%	10.16%	7.66%			
RI	6.80%	11.81%	9.64%	7.59%			
CT	1.26%	1.18%	1.00%	1.19%			
NY	10.37%	20.31%	19.94%	13.01%			
NJ	14.79%	11.23%	13.94%	14.57%			
DE	1.88%	0.58%	0.40%	1.47%			
MD	3.00%	1.50%	1.84%	2.68%			
VA	11.86%	4.62%	5.85%	10.26%			
NC	32.01%	32.06%	32.38%	32.13%			
SC	0.10%	0.00%	0.00%	0.03%			
GA	0.10%	0.00%	0.00%	0.01%			
FL	10.04%	6.07%	4.75%	8.59%			
Total	100.00%	100.01%	100.03%	100.00%			

## **6.1.2** Impacts of Commercial Allocations to the States Alternatives

Under alternative 3a-1, no changes to the commercial allocations would be made, meaning this alternative would result in impacts to the bluefish stock, non-target species, habitat, protected resources, and human communities that are generally similar to conditions in recent years. Bluefish landings and effort would continue to be constrained by the annual quotas and associated management measures. States would continue to be constrained to their existing state allocation, and the distribution of landings by state would remain similar to the generally stable levels observed since allocations were implemented in 2000 (Figure 5). Typically, landings by state as a percentage of coastwide landings do not fluctuate much from year to year since allocations are constant and most states land or come close to landing their quota. Exceptions do occur, as bluefish often display an idiosyncratic nature in movements into deeper waters offshore and up the coast, and states often receive transfers of quota from other states. Commercial landings from ME, NH, SC, and GA are minimal if they occur at all, since directed fisheries for bluefish do not exist in these states. The majority of landings in these states are incidental.

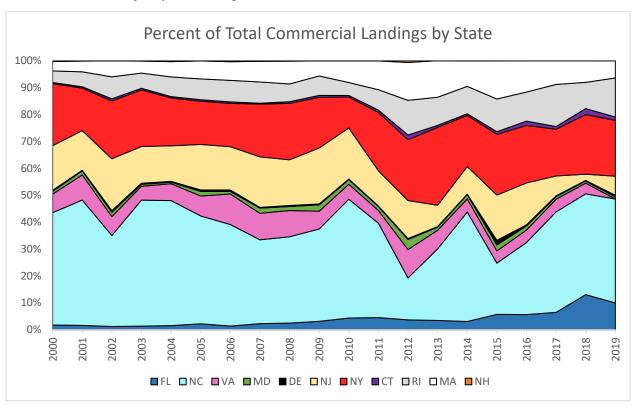


Figure 5: Percentage of coastwide landings by state from 2000-2019 (Atlantic coast excluding ME, SC and GA). ME, SC, and GA each account for less than 0.1% of landings each year.

Alternatives 3a-2 and 3a-3 are both based on recent time series (most recent 5 and 10-year time series, respectively) Therefore, the allocations are relatively similar given both time series reflect more recent landings. In contrast, alternative 3a-4 is based on the average of one recent time series (2009-2018) and one historic time series (1981-1989) to encompass the recent state of the commercial fishery as well as historical fishery performance. In capturing recent and historical fishery performance, the allocations associated with alternative 3a-4 equally weigh both time series

resulting in allocations that are closer to the status quo (3a-1) alternative than alternatives 3a-2 and 3a-3. Table 7 displays the four alternatives and the resulting percentage increase (blue) or decrease (red) relative to the current allocations (3a-1) for each state.

Table 7: State-by-state commercial bluefish allocations along the U.S. Atlantic coast including the percent change (negative in red; positive in blue) from status quo for each alternative.

	Allocation Alternatives Based on Landings Data						
	3a-1	3a-2		3a-3		3a-4	
State	<b>Status quo</b> (1981-1989)	5 year (2014-2018)		10 year (2009-2018)		1/2 '81-'89 1/2 '09-'18	
ME	0.67%	0.00%	-100%	0.01%	-99%	0.49%	-27%
NH	0.41%	0.03%	-93%	0.12%	-71%	0.33%	-20%
MA	6.71%	10.64%	<i>59%</i>	10.16%	51%	7.66%	14%
RI	6.80%	11.81%	74%	9.64%	42%	7.59%	<i>12%</i>
CT	1.26%	1.18%	-6%	1.00%	-21%	1.19%	-6%
NY	10.37%	20.31%	96%	19.94%	92%	13.01%	25%
NJ	14.79%	11.23%	-24%	13.94%	-6%	14.57%	-1%
DE	1.88%	0.58%	-69%	0.40%	<i>-79%</i>	1.47%	-22%
MD	3.00%	1.50%	-50%	1.84%	-39%	2.68%	-11%
VA	11.86%	4.62%	-61%	5.85%	-51%	10.26%	-13%
NC	32.01%	32.06%	0%	32.38%	1%	32.13%	0%
SC	0.10%	0.00%	-100%	0.00%	-100%	0.03%	-70%
GA	0.10%	0.00%	-100%	0.00%	-100%	0.01%	-90%
FL	10.04%	6.07%	-40%	4.75%	-53%	8.59%	-14%
Total	100.00%	<b>100.01%</b> <sup>5</sup>		100.03%		100.00%	

## Social Impacts

The socioeconomic impacts of the existing allocations vary from state to state. Some states report negative economic impacts associated with current allocations due to a mismatch between their current allocation and their fishery capacity and/or bluefish availability in their waters. Commercial fishermen that land bluefish within a state that consistently harvests less than its quota have the benefit of operating within an unconstrained fishery. Future fluctuations in stock size are less likely to restrict fishing effort and mitigate revenue losses within that state. Each state manages their fishery differently in terms of total number of participants, trip limits, seasons, and other measures. A restriction in one or more of these measures is the driver of the social and economic impacts to industry participants. For example, a restriction in the daily trip limit will likely have an outsized impact on larger vessels compared to smaller vessels which may already harvest bluefish under the newly imposed daily trip limit.

The proposed allocation alternatives incorporate more recent data that are reflective of current state-specific performance and have the potential to increase economic efficiency. Nonetheless, any reduction in allocation may limit a state's potential for market expansion and future increases

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<sup>&</sup>lt;sup>5</sup> Some percentages exceed 100% due to rounding but will be adjusted by the regional office upon implementation.

in landings and ex-vessel revenue compared to the no action alternative. Revenue is also variable in nature and is influenced by fluctuations in costs and prices.

Under alternative 3a-1, impacts are likely negative for commercial fishery stakeholders located in states with smaller proportions of allocations relative to what commercial stakeholders believe should be their states' allocations. The submitted scoping comments were divided roughly in half, with 52% of commenters supporting status quo and 48% in favor of altering the commercial allocations to the states. Among the commercial stakeholders who submitted comments opposed to altering the state allocations were those from NJ (and other states where reductions would take place) who were opposed to reductions in the NJ allocation. Others supported the status quo so long as flexibility remained to transfer quotas between states when necessary. On the other hand, roughly half of the submitted comments were in favor of revisiting state commercial allocations.

Alternative 3a-2 would set allocations using a five-year time series of landings data (2014-2018). MA, RI, and NY would see the most substantial increases in allocations using this approach, whereas NJ, VA, and FL would see the largest reductions in commercial allocations under this approach. NY has two of the top five (Montauk and Hampton Bays/Shinnecock) and four of the fifteen most highly engaged communities in the commercial bluefish fishery (Figure 3). Relative to status quo, alternative 3a-2 would likely result in positive social impacts for these NY communities given the substantial increase in allocations to the state. While FL and VA do not have any communities among the top fifteen in commercial bluefish engagement, four of the fifteen highest in engagement are located in NJ. Therefore, while FL and VA may not experience substantial negative impacts from the reductions in commercial allocations, NJ communities and user groups will likely experience negative social impacts from alternative 3a-2.

Under alternative 3a-3, a 10-year time series of landings data would inform the distribution of state allocations of commercial bluefish. This scenario would increase the allocations for RI (~3%), MA (~3%), and NY (~9%) considerably, but reduce allocations for VA and FL by a similarly substantial amount (~6%). Unlike alternative 3a-2, however, this alternative would only reduce the NJ allocation by less than one percent. Relative to the status quo, alternative 3a-3 would likely result in positive social impacts for commercial stakeholders in MA, RI, and NY, while at the same time limiting the negative impacts of reducing the allocation to NJ. As discussed under alternative 3a-2, communities in FL and VA do not feature among the most highly engaged in commercial bluefish activity (Figure 3), whereas MA, RI, NY, and NJ all have several communities with relatively high engagement in commercial bluefish fishery activities. Alternative 3a-3 provides relative benefits to most of the north Mid-Atlantic and New England user groups without affecting stakeholders in NJ as dramatically as alternative 3a-2.

Under alternative 3a-4, state allocations would be redistributed based partially on landings data from the 1981-1989 time series and partially on the 2009-2018 time series. This approach provides the most limited change in state allocations among other alternatives to the status quo. Northern states such as MA, RI, and NY would see modest increases in allocations (under 3%), while southern states such as NJ, VA, and FL would only see minor decreases in allocations (~2% or less). Alternative 3a-4 would likely result in neutral to low positive social impacts for the northern states and neutral to low negative impacts for the southern states relative to the status quo alternative. Among all state allocation alternatives, alternative 3a-4 would likely produce the least impactful changes to the social factors among commercial bluefish fishery stakeholders and communities.

## **Economic Impacts**

The current state-level commercial allocations consider landings data from 1981-1989. Through transfers, states which predict to land bluefish quantities above their allocated quota can request additional quota from states which are not expected to land their allocation. This transfer increases the requesting state's landings and revenues, overall. In addition, no incentives are given to the state transferring out quota. In theory, this transaction could be classified as a Pareto improvement, where the transfer of quota does not negatively impact either participating party. Given that these state-to-state transfer channels exist, the economic impacts of the proposed reallocations at the state-level are expected to be marginal during years of higher bluefish population levels given that 1) allocations are based on realized landings/catch data and 2) states can transfer quota depending on their predicted performance in any given year. However, in years when the coastwide commercial quota is low resulting from an overfished stock, there may not be a sufficient number of states with additional quota available to cover other states' needs. During these years, states with a small allocation relative to their share of recent coastwide landings are likely to be negatively impacted the most. In addition, there is opportunity cost in the form of time and effort associated with transfers. There is a decrease in economic efficiency linked with the processing and approving of transfer requests. If transfers continue, the maximum economic benefits are associated with the reallocation plan which accurately captures each states' quota needs and minimizes the need for quota transfers.

To highlight how each allocation alternative relates to decreases in state quota transfers, both realized landings and average reallocation quantities by sub-alternative are depicted in Figure 6. Here, the distribution of each state's annual bluefish landings are summarized by box and whisker plots. The interquartile range of state-level bluefish landings are portrayed by the gray boxes and the whiskers, which indicate the maximum and minimum annual bluefish landing quantity for each state from 1999-2019. Average annual allocations are calculated using the percentages presented in 3a-1 to 3a-4 which include the status quo of allocations determined using the 1981-1989 time series of landings data, allocations based on the previous five years of state landings, allocations based on landings from the previous 10 years, and allocations based on landings from 1981-89 and 2009-18. State allocations by sub-alternative are calculated using the historical commercial sector quota and each allocation plan's corresponding quota percentage from 1999-2019. The average allocations by state and plan are plotted against realized bluefish landings for comparison.

There is no consistent trend in impacts stemming from each reallocation sub-alternative when compared across states. For example, under status-quo, quota allocations for FL would be much greater than the state's median landings value (above the state's maximum annual landings value); however, for NY, quota allocated under the status quo alternative would be much less than the state's median realized landings. When comparing which sub-alternative is closest in value to the median realized landings of each state, plan 3a-3 (ten-year) performs the best, with landings predictions closest to 38% of state median landings values and furthest from only 9% of state median landings. The 3a-2 plan (five-year) is second in performance based on this metric, which is closest to the median landings for 31% of states but furthest from the median value for 27% of states. The status quo (3a-1) plan had average allocations most similar to the median landings

<sup>6</sup> The 1999-2019 time series is used to show how the proposed allocations align with realized landings over the past two decades.

<sup>&</sup>lt;sup>7</sup> This analysis excludes Georgia and South Carolina because each plan had an equal average allocation estimate.

values for 23% of states but is furthest from the median landings value for 64% of states. Lastly, 3a-4 (1989-91 & 2009-18 based allocations) is nearest to 8% of state median landings values but furthest from the median value of 0% of the states. It should be reiterated that landings and revenues may not be impacted by the state-level reallocations if transfer requests continue to be issued and approved. However, by determining the plan which best predicts state landings, the need for transfers will decrease—increasing efficiency within the commercial sector. A slight economic advantage is expected for states which are allocated quota above their historic median landings value, as these states will have the ability to land above their expected median landings without requesting additional quota from another state, while states which are allocated a quota slightly below their annual median may need to request quota on an annual basis.

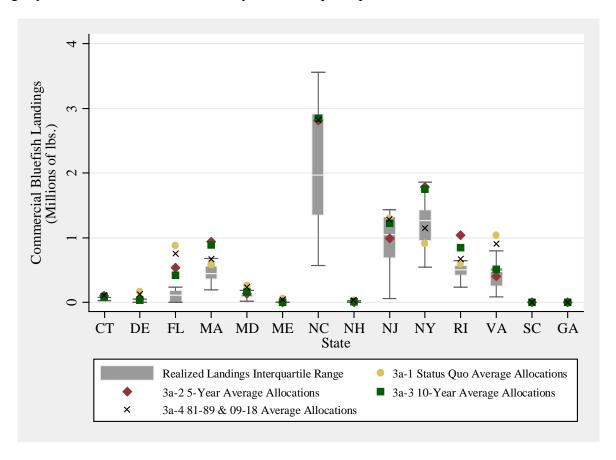


Figure 6: Realized annual commercial bluefish landings box and whisker plots (1999-2019) and average annual allocations (1999-2019) by proposed state-level allocation subalternative by state. Median landings represented by white horizontal line within box and whisker.

#### **Biological Impacts**

Currently, bluefish discards in the commercial fishery are considered negligible. Depending on the scale of the allocation change, a decrease in the commercial quota or additional restrictions on the commercial fishery could lead to increased regulatory discards compared to recent levels. Actual changes in discards will depend on many factors such as fishing behavior, weather, availability of other target species, and market demand. Discards are also influenced by availability of bluefish,

both overall abundance and by size class. Therefore, it is challenging to predict future discards based on changes in allocations.

## 6.2 Commercial Allocation Change Phase-In

## **6.2.1** Commercial Allocation Change Phase-In Alternatives

The alternatives listed in Table 8 consider if any changes to the allocation percentages considered through alternative set 3a should occur in a single year (alternative 3b-1, no phase-in) or if the change should be spread out over 4, 5, or 7 years (alternative 3b-2). The Council and Board agreed that if alternative 3b-2 is selected, the duration over which new allocations will be phased in will match the duration of the selected rebuilding plan (section 7). The choice of whether to use a phase-in approach may depend on the magnitude of allocation change proposed. Larger allocation changes may be less disruptive to fishing communities if they are phased in over several years as identified by the percent point change (Table 9).

Table 8: Bluefish state commercial allocation change phase-in alternatives

Phase-in Alternatives
<b>3b-1:</b> No phase-in
<b>3b-2:</b> Allocation change spread evenly over the same duration as the selected rebuilding plan

Table 9: Percentage point shifts in bluefish state commercial allocation per year for 4, 5, and 7-year phase-in options for all allocation change alternatives

	5 year (2014-2018) See 3a-2		<b>10 year (2009-2018)</b> See 3a-3		<b>1/2 '81-'89 1/2 '09-'18</b> See 3a-4					
State	<b>Current Allocations</b>	4-year	5-year	7-year	4-year	5-year	7-year	4-year	5-year	7-year
ME	0.67%	-0.17%	-0.13%	-0.10%	-0.17%	-0.13%	-0.09%	-0.05%	-0.04%	-0.03%
NH	0.41%	-0.10%	-0.08%	-0.05%	-0.07%	-0.06%	-0.04%	-0.02%	-0.02%	-0.01%
MA	6.71%	0.98%	0.79%	0.56%	0.86%	0.69%	0.49%	0.24%	0.19%	0.14%
RI	6.80%	1.25%	1.00%	0.72%	0.71%	0.57%	0.41%	0.20%	0.16%	0.11%
CT	1.26%	-0.02%	-0.02%	-0.01%	-0.07%	-0.05%	-0.04%	-0.02%	-0.01%	-0.01%
NY	10.37%	2.49%	1.99%	1.42%	2.39%	1.91%	1.37%	0.66%	0.53%	0.38%
NJ	14.79%	-0.89%	-0.71%	-0.51%	-0.21%	-0.17%	-0.12%	-0.06%	-0.04%	-0.03%
DE	1.88%	-0.33%	-0.26%	-0.19%	-0.37%	-0.30%	-0.21%	-0.10%	-0.08%	-0.06%
MD	3.00%	-0.38%	-0.30%	-0.21%	-0.29%	-0.23%	-0.17%	-0.08%	-0.06%	-0.05%
VA	11.86%	-1.81%	-1.45%	-1.03%	-1.50%	-1.20%	-0.86%	-0.40%	-0.32%	-0.23%
NC	32.01%	0.01%	0.01%	0.01%	0.09%	0.07%	0.05%	0.03%	0.02%	0.02%
SC	0.10%	-0.03%	-0.02%	-0.01%	-0.03%	-0.02%	-0.01%	-0.02%	-0.01%	-0.01%
GA	0.10%	-0.03%	-0.02%	-0.01%	-0.03%	-0.02%	-0.01%	-0.02%	-0.02%	-0.01%
FL	10.04%	-0.99%	-0.79%	-0.57%	-1.32%	-1.06%	-0.76%	-0.36%	-0.29%	-0.21%

Section 6.3 discusses alternatives related to the trigger approach. The trigger approach requires baseline quotas to determine the allocation of the quota greater than the trigger threshold. By

design, the phase-in approach alters each state's baseline quota on a yearly basis, which greatly complicates the calculation of each state's additional quota. The various combinations of phase-in and trigger alternatives would require numerous tables to display each state's allocation for each year during the phase-in period. As such, examples are not included in this document and the combination of these approaches is not recommended.

Section 6.4 discusses alternatives related to minimum default allocations. If the Council and Board decide to select both phase-in and a minimum default allocation, the percentage point shifts in Table 9 will be slightly smaller (see Appendix C).

#### **6.2.2** Impacts of Commercial Allocation Change Phase-In Alternatives

The impacts described in section 5.2.2 largely apply here to the commercial allocations to the states. The biological, social, and economic impacts of the phase-in alternatives for the commercial allocations to the states under consideration in this amendment are dependent on three main factors: 1) the difference between the status quo allocation percentage and the allocation percentage selected, 2) the duration of the phase-in period, which will be the same duration as the preferred rebuilding plan (section 7), and 3) the continuation of state-to-state transfers (section 8). Based on the range of allocation percentages in Section 5.1.1, the commercial allocations to the states could shift by as much as 2.49 percentage points per year (NY), or as little as 0.01 percentage points (NH, SC, GA) per year under the above phase-in timeframes of 4-7 years. Table 7 (red/blue showing change in section 6.1.2) presents the percent change that would be associated with each alternative.

In summary, under alternative 3b-1, the state allocations selected from among the 3a set of alternatives would occur in a single year upon implementation. The social impacts of alternative 3b-1 will align with whichever 3a alternative is selected for determining the future of state allocations of commercial bluefish.

Under alternative 3b-2, both the positive and negative social impacts discussed in section 6.1.2 would still apply, but they would be phased in over time. This could mitigate to an extent the negative social impacts by providing a buffer through smaller percentage changes over time, but also slow the realization of some states' increases in quota and their associated positive social impacts.

## 6.3 Commercial Quota Triggers

#### **6.3.1** Commercial Quota Trigger Alternatives

This alternative set would create state allocations that vary with overall stock abundance and resulting coastwide commercial quotas (Table 10). The selection of alternative 3c-1 would implement no trigger, which is consistent with the current FMP. Alternative 3c-2 would implement a trigger level equal to the average of the initial commercial quota for each time series associated with alternative set 3a that do not include transfers from the recreational to commercial fishery. Alternative 3c-3 would implement a trigger level equal to the average of the final commercial quota that includes transfers from the recreational to the commercial fishery. Ultimately, the commercial quota time series selected will correspond with the time series associated with the alternative selected in section 6.1.1.

Please note, no trigger threshold was developed under the status quo state commercial allocations because no formal commercial quotas existed prior to the implementation of Amendment 1 in 2000. As such, the trigger approach is not able to be implemented under status quo commercial allocations to the states (alternative 3a-1).

Table 10: Trigger threshold levels for additional quota allocations.

Commercial Quota Time Series	No Trigger Alternative: 3c-1	Pre-Transfer Alternative: 3c-2	Post Transfer Alternative: 3c-3
No Action/Status quo [3a-1]		N/A	N/A
5-year (2014-2018) [3a-2]	No trigger	3.67 M lbs	6.67 M lbs
10-year (2009-2018) [3a-3]	approach	4.31 M lbs	8.21 M lbs
½ 1981-1989 and ½ 2009- 2018 [3a-4]	implemented	4.31 M lbs*	8.21 M lbs*

<sup>\*</sup>No formal commercial quota existed before the implementation of Amendment 1 in 2000; the average represents the quota for available years only.

For all years when the annual commercial quota is at or below a specified annual commercial quota trigger level, the state allocations would be specified by the selected option from alternative set 3a. In years when the annual coastwide quota exceeds the specified trigger level, quota up to the trigger amount would be distributed according to the chosen allocation alternative from alternative set 3a, and the distribution of quota over the trigger would be set according to the allocations listed in Table 11.

Table 11: Bluefish commercial state allocations applying a trigger threshold for all commercial allocation time series.

Alloca	Allocation of additional quota greater than the trigger threshold.					
State	Status quo (1981-1989)	5 year (2014-2018)	10 year (2009-2018)	1/2 '81-'89 1/2 '09-'18		
ME	0.10%	0.10%	0.10%	0.10%		
NH	0.10%	0.10%	0.10%	0.10%		
MA	7.50%	16.60%	19.60%	7.50%		
RI	7.50%	16.60%	7.50%	7.50%		
CT	3.00%	3.00%	0.10%	3.00%		
NY	15.12%	16.60%	19.60%	17.03%		
NJ	15.12%	16.60%	19.60%	17.03%		
DE	3.00%	0.10%	0.10%	3.00%		
MD	3.00%	3.00%	3.00%	3.00%		
VA	15.12%	3.00%	7.50%	17.03%		
NC	15.12%	16.60%	19.60%	17.03%		
SC	0.10%	0.10%	0.10%	0.10%		
GA	0.10%	0.10%	0.10%	0.10%		
FL	15.12%	7.50%	3.00%	7.50%		
Total	100%	100%	100%	100%		

The allocations in Table 11 were developed by using the tiered approach displayed in Table 12 where the baseline quota allocations selected from alternative set 3a determine how the quota greater than the trigger will be allocated to each state. In summary, the trigger threshold level and the associated additional quota allocation are all informed by the time series selected in alternative set 3a.

Table 12: Range of baseline quotas and the associated additional quota allocation once a trigger threshold is surpassed.

Range of Baseline Quota Tiers	Associated Additional Quota Allocations
<=1%	0.10%
>1-5%	3.00%
>5-10%	7.50%
>10%	Remainder

Section 6.4 discusses alternatives related to minimum default allocations. If the Council and Board decide to select both a trigger approach and minimum default allocations, the percentages in Table 11 will shift slightly. On occasion, specific state allocations in the proposed time series will cross a threshold into a different percentage of associated additional quota (see Appendix C).

## **6.3.2** Impacts of Commercial Quota Trigger Alternatives

Between alternatives 3c-2 and 3c-3, the trigger thresholds associated with 3c-2 are more likely to be exceeded given the thresholds are much lower. These thresholds are approximately half those associated with alternative 3c-3 because they account for the commercial quotas prior to incorporating historical transfers from the recreational to commercial fishery. Figure 7 displays the four potential trigger thresholds and the post-transfer commercial quotas as well as total coastwide commercial landings for the years 2000-2018. Both of the potential pre-transfer trigger thresholds associated with alternative 3c-2 would have been exceeded by the commercial quota every year going back to 2000. By comparison, both of the potential post-transfer trigger thresholds associated with alternative 3c-3 would have been exceeded by the commercial quota for every year except 2015 and 2016 when the commercial quota was much lower. The trigger approach only impacts states directly in years when the trigger threshold level is exceeded. Following this logic, the impacts discussed in the economic impacts section are experienced to a greater degree under the lower pre-transfer trigger (3c-2) compared to the higher post-transfer trigger (3c-3).

The trigger approach could also provide additional beneficial social impacts or buffers against negative impacts, for states that are either receiving increased allocations or having allocations reduced. Therefore, alternatives 3c-2 and 3c-3 are likely to have a range of social impacts from neutral to low positive varying state-to-state, depending upon the alternative selected from the 3a set. Ultimately, the impacts are difficult to ascertain because of the number of combinations that can arise under the trigger option. Some states will experience neutral to positive impacts, others neutral to negative, and those impacts might change when quotas are below the trigger vs above the trigger. In summary, it is difficult to know what the impacts are, and the impacts will depend on other decisions made in this document.

Considering the bluefish FMP will be going through rebuilding starting at the end of this year, the FMAT concluded that it is unlikely the initial ABCs will be large enough to exceed the trigger threshold.

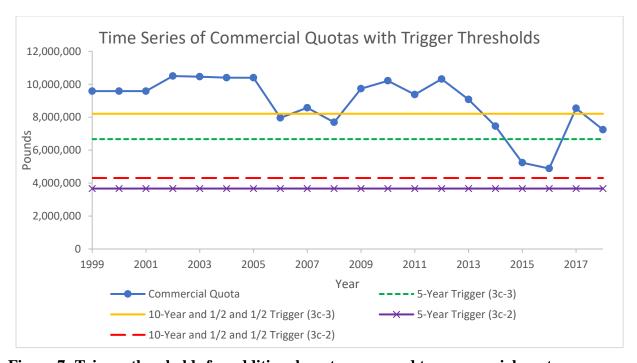


Figure 7: Trigger thresholds for additional quota compared to commercial quotas.

#### Economic Impacts

Section 6.3 would allocate quota differently above a specified pre- or post-transfer threshold (i.e., the trigger) than the allocation method described in section 6.1.1. To analyze the economic impacts of this difference in allocation, a commercial quota 100,000 lbs. above both the pre- and post-transfer threshold levels is used. Revenues are calculated at the state-level using allocations under the trigger scheme. The revenues generated from the trigger-allocated quota are compared to revenues generated under a no-trigger allocation scenario across the various commercial sector allocations proposed in section 6.3 (i.e., 3a-1 through 3a-4). Since ex-vessel bluefish prices are needed at the state-level and a state-level price model has yet to be developed, annual state exvessel bluefish prices, averaged over 1996-2019, are used for the calculation of revenues and reported in 2020 constant dollars. One limitation of this analysis is that average state prices omit the inverse relationship between ex-vessel prices and estimated landing quantities. Average state prices reflect landing quantities closer to that of the pre-transfer trigger threshold amounts, as bluefish landings have never reached the proposed post-transfer trigger threshold levels.

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<sup>&</sup>lt;sup>8</sup> Average total realized bluefish landings from 1999-2019 equal 5.68 M lbs. which also informs the average price data used calculate revenues. Given that the post-transfer trigger quantities exceed the average realized landings, a minimum overage quantity of 100,000 lbs. was chosen to highlight the possible economic impacts of the trigger-induced allocation process of additional quota.

Conceptually, when the trigger is activated, states will receive greater quantities of quota if they are grouped into an allocation category which results in higher allocations than the non-trigger alternative allocation method. The opposite is true for a state that is allocated a higher percentage of quota under the non-trigger allocation but is grouped in an allocation bracket lower than its original allocation. For example, ME is allocated 0.67% under the status quo (i.e., 17% of the ABC for commercial sector pre-transfer allocations) with no trigger. With a trigger, the allocation of additional quota to ME would be set at 0.1% given that it falls in the ≤1% allocation range, resulting in less allocated quota than would be received under the state's baseline allocation percentage. The state of MA, on the other hand, would be allocated 6.71% of the additional quota under the status quo with no trigger, but quota allocation after the trigger threshold would increase to 7.50% under the trigger sub-alternative.

When an additional 100,000 lbs. is allocated under the trigger vs. the non-trigger status quo, average revenues decrease for NC, ME and NH, when averaged across all state allocation alternatives (Figure 8). On average, NC revenues would decrease by \$7,904, ME by \$167, and NH by \$101. It should be noted, however, that whether a state earns increases or decreases in revenues varies across the allocation alternatives. For example, RI would earn a revenue increase of \$2,854 under 3a-2 (i.e., the five-year allocation) but a decrease in revenues (-\$1,275) under 3a-3 (i.e., the ten-year allocation). The highest increases in revenues when averaged across the alternatives are earned by MA, NJ and VA with increases of \$3,432, \$2,514, and \$1,382, respectively.

This analysis highlights the variation in economic outcomes and their dependence on the allocation sub-alternatives proposed in section 6.3. Though triggers would impact the initial allocation of the quota, this analysis assumes that each state will fully utilize their allocated quota with no state-to-state transfers. If additional allocations resulting from the trigger method are not utilized and transfers are to continue, there may be little change in landings/revenues and the burden of transfers will be the main economic consequence of this sub-alternative.

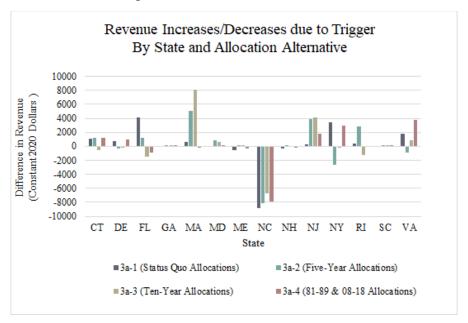


Figure 8: Differences in commercial bluefish revenues (2020 constant dollars) resulting from trigger-induced allocations by state and state-level allocation sub-alternative.

#### 6.4 Minimum Default Allocations

#### **6.4.1** Minimum Default Allocation Alternatives

This alternative set would establish minimum default commercial quota allocations for each state within the bluefish management unit. A minimum default allocation provides each state with a fixed minimum percentage allocation of the coastwide commercial quota, and the remainder would be allocated based on the commercial allocation alternative selected from section 6.1.1. The minimum default allocation alternatives are presented in Table 13. If 0.1% (3d-2) is selected, 1.4% of the allocation would be evenly distributed amongst the 14 states within the bluefish management unit. Then, the remaining 98.6% of the commercial quota would be distributed in accordance with the preferred alternative in section 6.1.1. If 0.25% (3d-3) is selected, 3.5% of the allocation would be evenly distributed to the 14 states. Then, the remaining 96.5% of the commercial quota would be distributed following the preferred alternative in section 6.1.1. Table 14 and Table 15 present the final state allocations with the incorporated minimum default allocations of 0.10% and 0.25%, respectively.

Table 13: Minimum default allocation alternatives.

Minimum Default Allocation Alternatives						
3d-1	No Action/Status quo: No Minimum Default Allocation					
3d-2	0.10% Minimum Default Allocation					
3d-3	0.25% Minimum Default Allocation					

Table 14: State-by-state commercial bluefish allocations along the U.S. Atlantic coast using different proposed time series and a minimum default allocation of 0.10%.

3d-2		0.10% Minimum Default Allocation					
State		Status quo 1981-1989	5-year 2014-2018	10-year 2009-2018	1/2 '81-'89 1/2 '09-'18		
ME	0.67%	0.76%	0.10%	0.11%	0.58%		
NH	0.41%	0.51%	0.13%	0.22%	0.42%		
MA	6.71%	6.72%	10.59%	10.12%	7.65%		
RI	6.81%	6.81%	11.74%	9.61%	7.58%		
CT	1.27%	1.35%	1.26%	1.09%	1.28%		
NY	10.38%	10.33%	20.12%	19.76%	12.93%		
NJ	14.81%	14.70%	11.17%	13.85%	14.46%		
DE	1.88%	1.95%	0.67%	0.49%	1.55%		
MD	3.00%	3.06%	1.57%	1.92%	2.75%		
VA	11.94%	11.88%	4.65%	5.87%	10.22%		
NC	32.03%	31.68%	31.71%	32.03%	31.78%		
SC	0.04%	0.13%	0.10%	0.10%	0.13%		
GA	0.01%	0.11%	0.10%	0.10%	0.11%		
FL	10.06%	10.02%	6.08%	4.78%	8.57%		

Table 15: State-by-state commercial bluefish allocations along the U.S. Atlantic coast using different proposed time series and a minimum default allocation of 0.25%.

30	1-3	0.25% Minimum Default Allocation					
State		<b>Status quo 1981-1989</b>	5-year 2014-2018	10-year 2009-2018	1/2 '81-'89 1/2 '09-'18		
ME	0.67%	0.89%	0.25%	0.26%	0.72%		
NH	0.41%	0.65%	0.28%	0.36%	0.56%		
MA	6.71%	6.73%	10.52%	10.05%	7.64%		
RI	6.81%	6.82%	11.65%	9.56%	7.57%		
CT	1.27%	1.47%	1.39%	1.22%	1.40%		
NY	10.38%	10.26%	19.85%	19.49%	12.80%		
NJ	14.81%	14.54%	11.09%	13.70%	14.31%		
DE	1.88%	2.06%	0.81%	0.64%	1.67%		
MD	3.00%	3.15%	1.69%	2.03%	2.84%		
VA	11.94%	11.78%	4.71%	5.89%	10.16%		
NC	32.03%	31.16%	31.19%	31.50%	31.25%		
SC	0.04%	0.28%	0.25%	0.25%	0.28%		
GA	0.01%	0.26%	0.25%	0.25%	0.26%		
FL	10.06%	9.95%	6.10%	4.83%	8.54%		

## **6.4.2** Impacts of Minimum Default Allocation Alternatives

Minimum default allocations were proposed to ensure states currently allocated a small share of the coastwide commercial quota do not lose their entire allocation through the re-allocation process. ME, NH, SC, and GA stand to benefit most from the implementation of a minimum default commercial allocation. All four of these states are currently allocated less than 1% of the coastwide quota. Furthermore, the allocation alternatives under consideration in Section 6.1.1 would provide these states with allocations close to 0%. The commercial fisheries in these states are quite small, but bluefish are still occasionally landed. Without a sufficient share of the commercial quota, fishermen operating within ME, NH, SC, and GA waters may be forced to discard incidental bluefish catch or travel further to offload landings in another state. The adoption of a minimum default allocation may reduce these negative biological and economic impacts. In addition, bluefish are historically a cyclical species and highly migratory. States like Maine and New Hampshire may encounter bluefish more in the future due to distribution shifts in the bluefish population. If this occurs, these two northern states would be afforded a small allocation that would allow some harvest of bluefish.

Alternatives 3d-2 and 3d-3 provide for minimum default allocations to states of 0.10% and 0.25%, respectively. Relative to the status quo/no action alternative, 3d-1, these minimum default allocations may result in neutral to low positive social impacts on state commercial bluefish stakeholders, depending upon the alternative selected from the 3a set. The difference between 3d-2 and 3d-3, however, is relatively small in terms of default percentages and thus the difference in social impacts between these two alternatives is anticipated to be neutral or negligible.

## **Economic Impacts**

Differences in state bluefish revenues resulting from allocations with minimum defaults vs. allocations without the minimum defaults are calculated across the various state-allocation alternatives proposed (3a-1 through 4). Revenues are estimated and compared across both of the proposed minimum defaults (0.10% and 0.25%). Landings for each allocation series (3a-1 to 3a-4) are simulated using historic pre-sector transfer quota quantities given that pre-sector transfer allocations are closer to realized landings relative to post-transfer quantities (1999-2019) and the assumption that all allocated quota is landed is necessary for the analysis. The simulated allocated quota, and therefore estimated landings, for each series is multiplied by the average state ex-vessel bluefish price. Average annual state bluefish prices (\$/lb) are used rather than an econometric model as a peer-reviewed state-level annual price model has yet to be developed. The use of average state bluefish prices omits the inverse relationship between price and quantity of bluefish landed, which is a limitation of this specific analysis. The average difference in revenues under minimum default allocations and their non-minimum default counterparts are presented in Figure 9.

In terms of revenue gains or losses, NC's revenues decrease the most under the minimum default allocation, with average losses of \$55K and \$137K for the 0.10% and 0.25% minimum defaults, respectively (Figure 9). This is followed by NY and NJ where revenues decrease by \$30K and \$19K under the 0.10% minimum default and \$80K and \$46K under the 0.25% minimum default for NY and NJ, respectively. The states with the highest increases in revenues are NH, ME, GA and SC. This is not surprising given that these states have the lowest allocations across all of the state-level reallocation plans, all of which are allocated under 1% of the commercial quota on when averaged across the non-minimum default allocations. SC, GA, ME and NH earn average annual revenue increases of \$20K, \$21K, \$25K and \$26K under the 0.10% minimum default and \$52K, \$52K \$63K and \$61K under the 0.25% minimum default, respectively. Revenues for the states not mentioned previously range from an average decrease of \$7K to average increase of \$16K for the 0.10% minimum default and an average decrease of \$21K to average gain of \$44K under the 0.25% minimum default when summarized across all proposed state-level allocation alternatives. Lastly, if transfers are to occur and if the states receiving minimum allocations are not projected to land their quota, it is possible for quota transfers to counteract the decreases in revenue stemming from minimum default allocations.

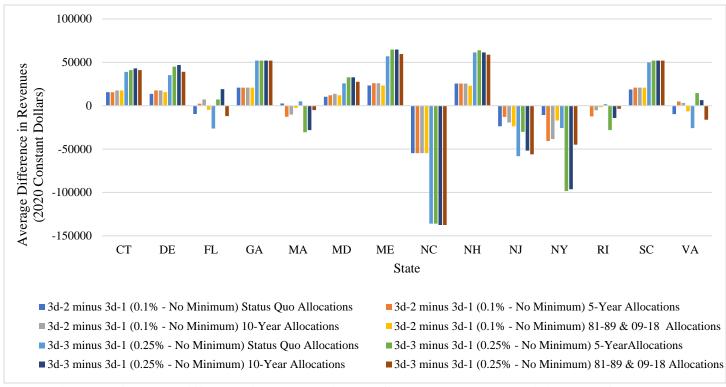


Figure 9: Average difference in commercial bluefish revenues under minimum default allocations and no minimum default allocations (1999-2019) by commercial allocation alternative and state.

# 7.0 REBUILDING PLAN ALTERNATIVES AND IMPACTS

The 2019 operational stock assessment indicates that the bluefish stock is overfished, but overfishing was not occurring in 2019<sup>9</sup>. Section 304(e)(3) of the MSA states: "Within 2 years after...notification...the appropriate Council...shall prepare and implement a fishery management plan, plan amendment, or proposed regulations...to end overfishing immediately in the fishery and to rebuild affected stocks of fish..." Furthermore, the MSA states that FMPs shall "contain the conservation and management measures... necessary and appropriate for the conservation and management of the fishery to prevent overfishing and rebuild overfished stocks, and to protect, restore, and promote the long-term health and stability of the fishery."

Spawning stock biomass (SSB) was estimated to be 91,041 metric tons in 2018, or 46% of the SSB target. The biomass target is the SSB associated with the fishing mortality proxy (F) that achieves maximum sustainable yield (MSY) or SSB<sub>MSY</sub> proxy. Under a rebuilding plan, the stock will be considered rebuilt once SSB reaches the SSB<sub>MSY</sub> proxy equal to 198,717 mt (Figure 10). Once rebuilt, the MSYproxy is estimated to be 26,677 mt. Total fishing mortality is also available for reference (Figure 11). Again, MSA requires the overfished stock to be rebuilt within 10 years once the regional office notifies the Council of the overfished state. Under the current amendment timeline, the rebuilding plan would be implemented at the beginning of 2022.

<sup>&</sup>lt;sup>9</sup> 2019 Bluefish Operational Stock Assessment Report

In mid-2021, a management track assessment will be conducted to re-assess the bluefish stock. As a result of this assessment, the biological reference points may shift. Moreover, rebuilding projections will be rerun to reflect the updated status of the stock. Then, Council and Commission staff will work with the NOAA Fisheries regional office and the Scientific and Statistical Committee (SSC) to identify how these new projections will be translated into future specifications.

#### Atlantic bluefish SSB and Recruitment 250,000 140.0 200,000 120.0 Recruitment (millions) SSB (MT) 150,000 80.0 100,000 60.0 40.0 50,000 20.0 0 0.0 1997 1991 Recruitment SSB SSBMSY

Figure 10: Atlantic bluefish SSB and recruitment at age 0 (R; gray vertical bars) by calendar year. The horizontal dashed line is the updated SSBMSY proxy = SSB40% = 198,717 mt.

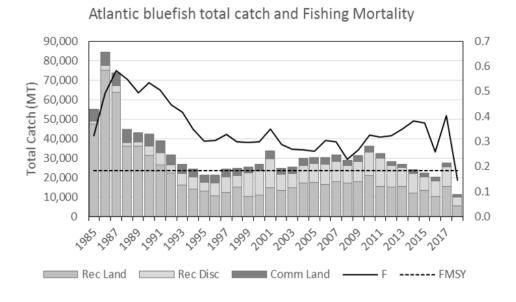


Figure 11: Total fishery catch (metric tons; mt; solid line) and fishing mortality (F, peak at age 3; squares) for Atlantic bluefish. The horizontal dashed line is the updated FMSY proxy = F35% = 0.183.

# 7.1 Rebuilding Plan Alternatives

This section introduces the four rebuilding plan alternatives under consideration, including status quo (Table 16). SSB values and catch projections are provided for reference for each of the three rebuilding plans. The proposed rebuilding plans assume all the projected catch will be caught. Regardless of which alternative is selected, the stock assessment scientist will perform assessment updates and rerun projections every two years. Each projection is based on current stock status information, meaning the catch values are subject to change depending upon the latest assessment. The SSC will then use the projections to develop recommendations for the specification packages that remain in line with the goals of the rebuilding plan.

Table 16: Rebuilding projection alternatives and the duration until rebuilt.

Alternative	Alternative Rebuilding Plan		Adjustment to Council Risk Policy
4a No Action/ Status Quo		N/A	N/A
<b>4b</b>	Constant Harvest	4 years	No
4c	P* (Council Risk Policy)	5 years	N/A
<b>4d</b>	Constant Fishing Mortality	7 years	Yes

All rebuilding alternative sections contain tables detailing the biomass levels, fishing mortality, catch,  $SSB_{MSY}$  proxy, and  $SSB_{Threshold}$ . The  $P^*$  approach includes all the same metrics, but in terms of the projected ABCs. Table 17, Table 18, and Table 19 all begin in 2019 despite the rebuilding plans beginning in 2022. These data are presented for reference to display the assumed catch values when the projection was run in 2020.

#### 7.1.1 No Action/Status quo (Alternative 4a)

The no action/status quo alternative would not initiate a rebuilding plan, no changes to the current risk policy would occur, and the current specifications would remain in place, as described in the proposed rule for the 2021 specifications package <sup>10</sup>. The Council is legally bound to develop a rebuilding pan and this alternative is included as a formality.

#### 7.1.2 Constant Harvest – 4-year Rebuilding Plan (Alternative 4b)

The 4-year constant harvest rebuilding alternative specifies that the stock be rebuilt by the end of 2025. The rebuilding plan projection presented in Table 17 and Figure 12 demonstrates that the projected catch and SSB values remains constant across the four years. However, as previously mentioned, the stock assessment scientist will conduct assessment updates and rerun projections every 2 years, which means the catch values may be adjusted up or down depending upon the assessment results. This alternative does not require an adjustment to the Council's risk policy because the catches are less than those described under the P\* approach. In 2022, fishing mortality rates peak at F=0.064, but still remains below the overfishing threshold (MSY Proxy above 0.183). Rebuilding projections indicate that this alternative would be expected to rebuild bluefish to slightly above the SSB<sub>MSY</sub> proxy as defined in the recent bluefish operational assessment (198,717 mt) by 2025.

 $<sup>^{10} \</sup>quad \text{https://www.federalregister.gov/documents/} 2020/11/05/2020-24364/fisheries-of-the-northeastern-united-states-atlantic-bluefish-fishery-2021-bluefish-specifications.}$ 

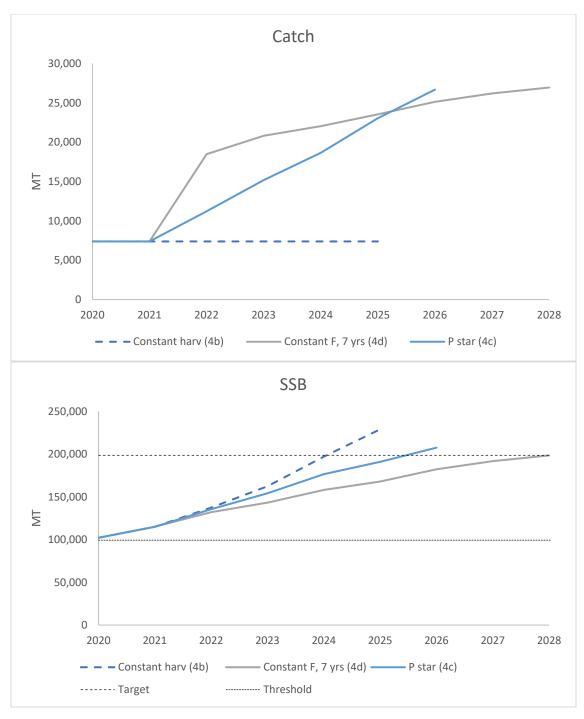


Figure 12: Rebuilding plan projections including catch (top) and SSB (bottom) for alternatives 4b, 4c, and 4c.

Table 17: Constant harvest projection to rebuild over 4 years.

Year	SSB (MT)	Recruits (000s)	F	Catch (MT)	SSBMSY (MT)	SSBthreshold (MT)
2019	92,779	43,282	0.279	22,614	198,717	99,359
2020	102,165	43,455	0.087	7,385	198,717	99,359
2021	115,085	43,428	0.075	7,385	198,717	99,359
2022	137,450	43,460	0.064	7,385	198,717	99,359
2023	162,495	43,353	0.052	7,385	198,717	99,359
2024	197,141	43,239	0.045	7,385	198,717	99,359
2025	229,121	43,379	0.039	7,385	198,717	99,359

# 7.1.3 P\* Council Risk Policy – 5-year Rebuilding Plan (Alternative 4c)

The 5-year P\* Council risk policy rebuilding alternative specifies that the stock be rebuilt by the end of 2026. The catch values shown in Table 18 are in accordance with the ABC control, which is guided by the Council's risk policy. Figure 12 provides a visual of catch and SSB rebuilding over the 5-year period. In 2022, the probability of overfishing is 29%. This coincides with a projected fishing mortality rate of F=0.098, which remains below the overfishing threshold (FMSY proxy = F35% = 0.183). Rebuilding projections indicate that this alternative would be expected to rebuild bluefish to slightly above the SSB<sub>MSY</sub> proxy as defined in the recent bluefish operational assessment (198,717 mt) by 2026. As previously stated, the ABC values presented in Table 18 are based on the 2019 operational assessment and are subject to revision following each stock assessment update.

Table 18: Rebuilding projection based on P\* using the Council's risk policy to rebuild over 5-years.

Year	OFL Total Catch (MT)	ABC Total Catch (MT)	ABC F	ABC Pstar	ABC SSB (MT)	SSBMSY (MT)	SSBthreshold (MT)
2019	15,368	22,614	0.280	0.183	92,732	198,717	99,359
2020	16,212	7,385	0.087	0.207	102,174	198,717	99,359
2021	17,205	7,385	0.075	0.239	115,012	198,717	99,359
2022	20,237	11,222	0.098	0.291	135,586	198,717	99,359
2023	23,998	15,181	0.113	0.338	154,257	198,717	99,359
2024	26,408	18,653	0.127	0.394	176,619	198,717	99,359
2025	28,807	23,048	0.144	0.431	191,063	198,717	99,359
2026	30,848	26,677	0.157	0.450	207,619	198,717	99,359

## 7.1.4 Constant Fishing Mortality – 7-year Rebuilding Plan (Alternative 4d)

The 7-year constant fishing mortality rebuilding plan alternative specifies that the fishing mortality rate be set constant across the duration of the rebuilding period with a rebuilt date set for 2028. Table 19 presents the project catch and SSB values associated with the rebuilding plan and Figure 12 presents catch and SSB over time. Starting in 2022 and for the duration of the rebuilding plan,

the fishing mortality rate is projected to be at F=0.166, which remains below the overfishing threshold. However, because these catches are higher than the P\* catches described in 4c, the Council would also adjust its risk policy for this rebuilding plan. The Council's current risk policy states that the SSC should provide ABCs that are the lesser of rebuilding ABCs or standard risk policy (P\*) ABCs (4c follows the current P\* approach). The P\* catches in 4c are lower than 4d. In absence of a risk policy adjustment, ABCs prescribed under alternative 4c would override those in 4d. The adjustment to the Council risk policy would be limited to only bluefish for this specific rebuilding alternative. Approval of this adjustment to the risk policy is necessary for the implementation of any rebuilding plan exceeding five years with the associated higher catches. Rebuilding projections indicate that this alternative would be expected to rebuild bluefish to slightly above the SSB<sub>MSY</sub> proxy as defined in the recent bluefish operational assessment (198,717 mt) by 2028. As previously discussed, the catch values produced by the projection are subject to change following new stock assessment information.

Table 19: Constant 7-year F rebuilding projection.

Year	SSB (MT)	Recruits (000s)	F	Catch (MT)	SSBMSY (MT)	SSBthreshold (MT)
2019	92,755	43,320	0.279	22,614	198,717	99,359
2020	102,186	43,531	0.087	7,385	198,717	99,359
2021	115,073	43,310	0.075	7,385	198,717	99,359
2022	132,150	43,390	0.166	18,477	198,717	99,359
2023	143,271	43,292	0.166	20,813	198,717	99,359
2024	158,152	43,272	0.166	22,033	198,717	99,359
2025	168,006	43,395	0.166	23,532	198,717	99,359
2026	182,311	43,336	0.166	25,121	198,717	99,359
2027	191,855	43,578	0.166	26,191	198,717	99,359
2028	198,520	43,411	0.166	26,939	198,717	99,359

# 7.2 Impacts of Rebuilding Plan Alternatives

All proposed alternatives, with the exception of no action, are projected to rebuild the stock to the SSB<sub>MSY</sub> proxy biomass target of 198,717 by 2028 or earlier. The catch values associated with each rebuilding plan scale up with the duration of the rebuilding period. The recreational and commercial sectors are likely to experience significantly different impacts from each rebuilding plan considering the varied duration and projected catch values.

When comparing impacts of the three rebuilding plans, individuals need to consider how a longer rebuilding timeline will affect ABCs, fishing mortality rates, and the resulting ACL, which may be constrained with various management measures, if necessary.

## **Social Impacts**

Alternative 4a is the status quo alternative under which no action would be taken to initiate a rebuilding plan and therefore the bluefish stock would remain in an overfished state. It is likely that there would be negative social impacts from the no action alternative due to the negligence of the MAFMC to comply with its legal obligation to develop a rebuilding plan when a stock is overfished. This would likely lead to an erosion of trust and confidence among stakeholders across

user groups in the ability of the MAFMC to handle its responsibilities to ensure the equitable sustainability of the bluefish resource. According to the written and oral comments provided during the scoping process, about 40% of commenters supported some type of rebuilding plan. By contrast, about 21% doubted the overfished status of the stock or viewed the stock status as "cyclical," and 17% reported that they believed the stock to be affected by environmental factors and more research is needed on those issues. These stakeholder perspectives indicate that a plurality of resource users would prefer the MAFMC take action on rebuilding the stock, but the approach in doing so would need to be carefully considered in terms of its impacts and equitability for stakeholders across user groups.

Under alternative 4b, a constant harvest approach would be utilized until the stock is rebuilt. The projected date for the stock to be rebuilt under this scenario is the end of 2025 (4 years). This approach applies perhaps the most constraining rebuilding plan given that catch would be set at a constant level of 7,385 mt over the four-year period. Relative to the no action alternative, alternative 4b would have positive social impacts due to the MAFMC implementing a rebuilding plan as it is legally required to do, but this approach may have neutral to negative social impacts relative to the other rebuilding plan alternatives under consideration. Most commercial crew and hired captains reported through Crew Survey results that they believed the rules and regulations in their primary fisheries have been too restrictive. If the projection holds and the stock is rebuilt in four years, however, the potential negative impacts may be offset by an improved stock status and likely increases in catch thereafter, subject to constraining fishing mortality below the threshold.

Alternative 4c would utilize the MAFMC risk policy (P\*) to rebuild the stock. This approach is projected to rebuild the stock by the end of 2026 (i.e., a 5-year rebuilding plan). Under this alternative, there would likely be positive social impacts relative to the no action alternative and positive impacts relative to alternative 4b, the four-year rebuilding plan. Alternative 4c provides for more catch over the course of the rebuilding plan, thus allowing more flexibility for stakeholders across user groups to continue to access the resource and potentially preserve employment and income opportunities in the short term as the stock is being rebuilt.

Under alternative 4d, the rebuilding plan would follow a constant fishing mortality approach through which the stock is projected to be rebuilt by the end of the year in 2028 (i.e., a 7-year rebuilding plan). This alternative would likely produce positive social impacts relative to the no action alternative and alternative 4b but might result in only neutral to low positive impacts relative to alternative 4c. While the amount of allowable catch is higher in the short term than under alternative 4c, the additional time to rebuild the stock might reduce the opportunities for employment and income from the bluefish resource over the longer-term relative to a shorter rebuilding plan target. However, if alternative 4d provides the greatest probability of rebuilding the stock then the potential negative impacts relative to alternative 4c might be negated by the benefits of a rebuilt stock for stakeholders to utilize across the spectrum of resource user groups. Additionally, most crew and hired captains interviewed through the Crew Surveys reported that the rules and regulations change so quickly that it can be hard to keep up. A longer rebuilding period with more gradual changes to allowable catch might reduce the amount of uncertainty in fishing business decisions and thus mitigate potential negative social impacts of a rebuilding plan.

#### **Economic Impacts**

Forecasted bluefish commercial landings and revenues are compared across the 4-year (alternative 4b), 5-year (alternative 4c), and 7-year (alternative 4d) rebuilding schedules. Landings and

revenues are estimated from 2019 to 2028 for each rebuilding plan with the expectation that each plan will be implemented in 2022. Landings and revenues for 2019 and 2020 in this analysis were based off of the values used in the projections and likely differ from 2019 and 2020 realized values because the projections were conducted before final data for these years were made available Moreover, rebuilding projections will continue to be revised every two years as the assessment is updated. For plans which indicate the stock will be rebuilt in less than 7 years, the ABC upon rebuilding the stock is assumed to equal 26,677 mt (58.8M lbs.) 11 for the remaining years in the time series, allowing for meaningful comparison between rebuilding schedules. For each plan, a minimum and maximum commercial allocation percentage was used to simulate allocations (11%) and 17%, respectively, as proposed by alternatives 2a-1 and 2a-2). This analysis assumes that all allocated commercial quota is landed in each forecasted year. Revenue streams are estimated using the predicted landings and ex-vessel bluefish prices are predicted using the modeling methods and parameters specified in Appendix B. Once estimated, future revenues streams are discounted to obtain present values for each rebuilding plan. Discounting revenue streams accounts for the time value of money when assessing future benefits. We present three different discount rates (0%, 3% and 7%) which are applied to the forecasted revenue streams. 12 The 0% discount rate serves as a baseline, while the 3% and 7% discount rates are suggested by NOAA's Social Rate of Time Preference (NOAA 1999) and the Executive Branch's Office of Management and Budget Circular No. A-94 discounting recommendations, respectively.

Trends in landings by rebuilding plan are shown in Figure 13 while average landings are summarized in Figure 14, where A and B represents the 11% and 17% commercial allocations for each figure, respectively. Alternative 4b (i.e., the 4-year plan) had the lowest overall landings in terms of average landings (3.6 M lbs and 5.5 M lbs under the 11% and 17% commercial allocations, respectively). Alternative 4d had the highest average annual landings with averages of 4.9 M lbs and 7.5 M lbs under the 11% and 17% commercial allocations, respectively.

Discounted revenue streams across the various rebuilding timelines are shown in Figure 15, where the three discount rates (0%, 3% and 7%) are applied to the 11% commercial quota allocations for panels A-C and to the 17% commercial allocations in panels D-F. Additionally, average revenues by plan are presented in Figure 16 where panels A and B refer to the 11% and 17% commercial quota allocations, respectively. The highest average annual revenues by rebuilding plan follow trends similar to those of the landings results. Average annual revenues for alternative 4b range from \$1.8M-\$2.7M and \$2.8M-\$4.2M across the discounted revenue streams under the 11% and 17% commercial allocations, respectively. The highest average annual revenues range from \$2.2M-\$3.3M and \$3.5M-\$5.1M across the three discount rates under the 11% and 17% commercial allocations, respectively. Overall, alternative 4c (i.e., 7-year schedule) has the highest economic benefits and alternative 4b (i.e., 4-year schedule) the lowest, in terms of average annual bluefish landings and revenues.

Without a demand model, it is unclear how the proposed rebuilding plans will impact recreational bluefish fishing effort. However, given the high catch and release nature of the fishery, there is likely to be little shift in the demand for recreational fishing given the changes in proposed ABCs

<sup>11</sup> The 26,677 lbs. quantity is the terminus year of the 5-year rebuilding projection based on P\* using the Mid-Atlantic Fishery Management Council's rebuilding risk policy.

<sup>&</sup>lt;sup>12</sup> The discount rate is a highly disputed topic in the field of economics. The discount rates presented are used to ensure that a low and high discount rate is accounted for when presenting results.

by the rebuilding plans. Any increases in recreational TAL may have a slight positive economic impact in possibly more for-hire trips which may have higher value on catching and retaining fish. It is overall unclear to what degree recreational effort and angler expenditures will be impacted by the proposed rebuilding plans.

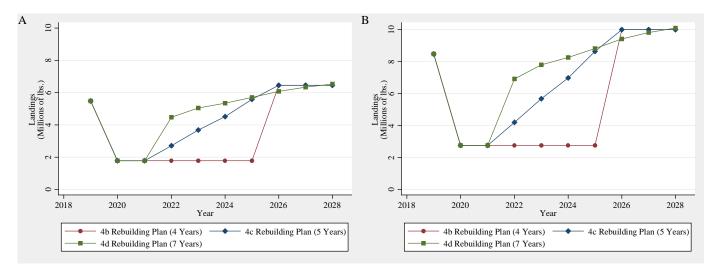


Figure 13: Projected commercial bluefish landings under an 11% and 17% commercial sector allocation (A and B, respectively) by rebuilding plan for years 2019-2028.

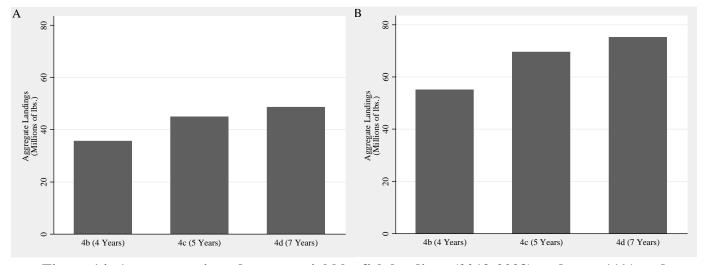


Figure 14: Average projected commercial bluefish landings (2019-2028) under an 11% and 17% commercial sector allocation (A and B, respectively) by rebuilding plan.

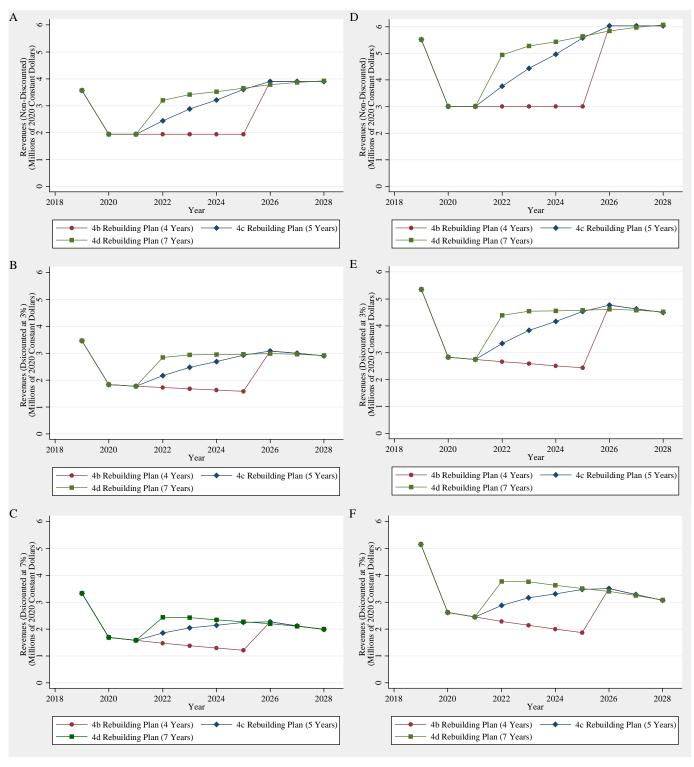


Figure 15: Estimated commercial bluefish revenues under 11% (A-C) and 17%(D-F) commercial allocations and discounted at 0%, 3%, and 7% by rebuilding plan and year (2019-2028).

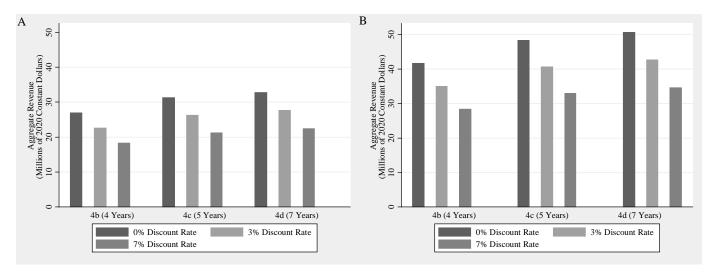


Figure 16: Average annual commercial bluefish revenues (2019-2028) discounted at 0%, 3% and 7% by rebuilding alternative and under 11% (A) and 17% (B) commercial quota allocations.

## 8.0 QUOTA TRANSFER ALTERNATIVES AND IMPACTS

The following alternatives describe options for allowing annual transfer of quota between the commercial and recreational sectors as part of the specifications setting process (i.e., the annual process of setting or reviewing catch and landings limits for the upcoming fishing year). Section 8.1 discusses quota transfer process alternatives while Section 8.2 addresses options for a cap on the total amount of a transfer.

#### 8.1 Sector Transfer Provision Alternatives

#### **8.1.1 Sector Transfer Provision Alternatives**

Alternatives under consideration for quota transfer provisions are presented in Table 20.

Table 20: Alternatives for annual transfer of quota between the commercial and recreational sectors.

Alternatives	Annual Quota Transfer Alternatives
5a-1	No Action/Status Quo
5a-2	Allow for optional bi-directional transfers through the annual specifications process with pre-defined guidelines and process. The transfer would consist of a portion of the total ABC in the form of a landings limit (i.e., commercial quota and RHL) transfer. Transfers would not occur if the stock is overfished or overfishing is occurring.

Under alternative 5a-1, transfers from the recreational to the commercial sector could continue but transfers from the commercial to the recreational sector would not be included as an option in the FMP.

Under alternative 5a-2, each year during the setting or review of annual catch limits, the Council and Board would have the ability to recommend a transfer of quota between the recreational and commercial sectors, affecting the final commercial quota and RHL. The Council and Board could recommend a transfer from the commercial fishery to the recreational fishery or from the recreational fishery to the commercial fishery. The transfer amount would not exceed the cap adopted via one of the sub-alternatives under alternative set 5b. Table 21 describes how the process of transfers works within the Council and Board's current specifications process under alternative 5a-1 and would work under alternative 5a-2.

Table 21: Quota transfer process during a typical specifications cycle under alternative 5a-1. The quota transfer process would differ slightly under alternative 5a-2 as described in the green shaded rows.

the green shaded rows.	
	Staff and the Monitoring Committee (MC) assesses the
	potential need for a transfer and develop recommendations to
	the Council and Board as part of the specifications setting or
	review process. The MC considers the expected commercial
	quota and RHL (pending Council and Board review/approval)
	in the coming year, and each sector's performance relative to
	landings limits in recent years. The MC has very limited data
	for the current year and is not able to develop precise current
	year projections of landings for each sector. The MC also
	considers factors including but not limited to:
July: Assess the need	<ul> <li>Projected changes in stock size, availability, or year</li> </ul>
for a transfer	class strength;
	<ul> <li>Recent or expected changes in management measures;</li> </ul>
	<ul> <li>Recent or expected changes in fishing effort;</li> </ul>
	The MC considers how these factors might have different
	impacts on the commercial and recreational sectors. The effects
	of these considerations are largely difficult to quantify and there
	is currently no methodology that allows the MC to
	quantitatively determine the need for a transfer with a high
	degree of precision. The MC uses their best judgement to
	recommend whether a transfer furthers the Council and Board's
	policy objectives, using mostly recent trends by sector.
	The Council and Board considers MC recommendations on
August: Council	transfers while setting or reviewing annual catch and landings
and Board consider whether	limits. Similar to the process for jointly setting catch limits, the
to recommend a transfer	Council and Board needs to jointly agree on the transfer
	amount .
	In addition to the steps described in the row above, the Council
August: Alternative 5a-2	and Board would also need to jointly consider the direction of
	transfer if alternative 5b-2 were to be adopted.
October: Council staff	
submits specifications package	Council staff prepares and submits supporting documents if
to NOAA Fisheries	needed to modify catch limits or implement transfers.
	•

Mid-December: Recreational measures adopted*	The Council and Board would adopt federal waters recreational measures and a general strategy for coastwide recreational management including any reductions or liberalizations needed in state waters. These recommendations are based on the expected post-transfer RHL which are not always implemented via final rule but have usually been recommended by the Council and Board and proposed to the public.
Late December: Final specifications published	NOAA Fisheries approves and publishes the final rule for the following year's catch and landings limits (if new or modified limits are needed), including any transfers.
January 1: Fishing year specifications effective, including any transfers	Fishing year specifications including any transfers would be effective January 1.
February: NOAA Fisheries post-implementation review and adjustment	NOAA Fisheries compares the estimate of recreational landings for the previous year to the RHL to make any necessary adjustments before finalizing the amount of quota transferred. The adjustment notice with final specifications is usually published in March/April.
February: Alternative 5a-2	No post-implementation reviews and adjustments to the transfer amount would occur given the final rule would recently have published, and recreational measures would have already been considered based on expected post-transfer RHLs.

<sup>\*</sup>While this step is not directly part of the quota transfer process, the timing of the recreational measures setting process influences the necessary timeline of transfer-related decisions.

If transfer provisions under alternative 5a-2 are adopted, some changes to the AMs may need to be considered. The AMs indicate that if the MC determines that a transfer from the recreational to commercial sector caused the fishery-level ACL to be exceeded, the transfer amount could be deducted from the receiving fishery in a subsequent year. The Council and Board could consider whether to include these changes in this amendment or develop a follow-up action.

#### **8.1.2** Impacts of Sector Transfer Alternatives

The impacts of transfers depend on the frequency of transfer, the amount transferred in each year, the direction of transfer between sectors, and to what extent each sector has been or is expected to achieve their limits. The impacts of a transfer are also dependent on the marginal economic value of additional allowable landings for each sector (in terms of commercial and for-hire revenues and revenues for associated commercial and recreational businesses), as well as the positive or negative impacts on angler satisfaction that may arise from modifying or maintaining recreational measures. As described below, many additional factors can influence how the commercial and recreational fisheries may be impacted by a transfer, including market conditions, overall availability of the species, availability of substitute species, and trends in effort driven by external factors.

#### Commercial to Recreational Transfers

If the recreational fishery receives a transfer, they will experience positive socioeconomic impacts due to outcomes such as the potential for liberalized measures, the ability to maintain measures when a reduction may otherwise be needed, and a reduced risk of an RHL or ACL overage that

may impose negative consequences in a future year. These outcomes are likely to result in maintained or increased revenues for recreational businesses as well as improved or maintained levels of angler satisfaction, compared to if no commercial to recreational transfer occurred.

In this scenario, the commercial sector would give up quota that is not expected to be fully utilized. In theory, if the decision to transfer is based on a pattern of underutilization in the commercial sector, the economic impacts to the commercial sector from such a transfer would be neutral. However, the commercial sector could experience a loss in revenue if the potential for underutilization is incorrectly evaluated. This could be due to a disconnect in the data used to evaluate the transfer and conditions in the relevant fishing year, possibly driven by changes in market conditions or fishery participation and effort.

Impacts to the commercial fisheries are not likely to be felt equally across states given different commercial quota management systems and differing quota utilizations by state. While coastwide commercial landings can frequently fall short of the total commercial quota, individual states vary considerably in utilizing or underutilizing their individual quotas. A coastwide projected underutilization could occur even if one or more states would be expected to fully utilize their quota in the upcoming year. This could have negative economic impacts to the commercial industries in states that regularly achieve their quotas.

#### Recreational to Commercial Transfers

If the commercial fishery receives a transfer, they will experience positive social and economic impacts in the year of the transfer due to increased revenue earning potential associated with higher potential landings. In general, quota increases tend to result in higher revenues, although some of these benefits may be partially offset by decreases in price per pound that can be associated with higher quotas. All else held constant, transfers from the recreational to commercial sector would lead to positive impacts for the commercial sector.

In theory, if the decision to transfer is based on a pattern of underutilization by the recreational sector, negative socioeconomic impacts to the recreational sector from such a transfer may not be realized. However, this would limit the potential for liberalizing recreational management measures. Since recreational harvest is more difficult to predict and control than commercial harvest, recreational management measures are frequently adjusted in order to strike an appropriate balance between conservation and angler satisfaction.

#### Impacts of Transfers in Either Direction

The impacts of transfers should be considered in combination with the short-term and long-term impacts associated with commercial/recreational allocation modifications under alternative set 2. However, it is difficult to do so quantitatively given the uncertainties about allocation changes as well as the uncertainties in the frequency, amount, and direction of potential transfers. In general, any annual transfers away from a sector can compound the negative impacts experienced due to a reduction in that sector's total allocation, or in the short term could partially offset the positive impacts of an increase in allocation. Annual transfers to a sector can simultaneously create additional positive impacts on top of the positive impacts of reallocation from the perspective of the receiving sector, and also exacerbate negative impacts of a loss in allocation for the donating sector.

The impacts of transfers would also be influenced by annual reductions or increases in the overall ABC based on changes in projected stock biomass and the application of the Council's risk policy. The recipient of a transfer could have some negative socioeconomic impacts from ABC reductions mitigated by receiving a transfer, while the transferring sector may experience exacerbated negative economic impacts from ABC reductions. Conversely, if the ABC were increasing, this could offset negative impacts to the transferring sector and provide additional benefits to the sector receiving the transfer.

The impacts of transfers can also be impacted by the availability and management of substitute species for a particular sector. High availability and access to recreational or commercial substitute species would help mitigate negative impacts of a transfer away from a given sector, while lower availability and access would compound these negative effects.

#### Social Impacts

Under alternative 5a-1, the status quo would remain, and no action would be taken to allow for bidirectional sector quota transfers. This might result in neutral to low-negative social impacts. Some stakeholders may desire and could benefit from the flexibility to transfer unused quota across sectors in both directions whenever the need or oversupply might arise.

Under alternative 5a-2, bi-directional transfers of quota across sectors would be permissible. This alternative is anticipated to have low positive social impacts relative to the no action alternative. Allowing for bi-directional transfers across sectors might improve flexibility for stakeholders throughout the fluid and changing quota needs of various stakeholders across user groups, sectors, and state lines. This may be especially helpful for some stakeholders in light of new rebuilding plans and allocation changes, which might have disparate impacts on stakeholders depending upon their initial positions and access to the resource prior to the change in allocations and implementation of a rebuilding plan.

#### **Economic Impacts**

The economic impacts of 5a-1 (status quo, recreational to commercial sector transfers, only) are expected to continue to be more or less neutral for the recreational sector and positive for the commercial sector. The commercial sector has historically utilized a portion of the additional transferred quota by increasing landings above the initial pre-transfer commercial allocation. The additional quota transferred from the recreational sector to the commercial sector may also contribute to increases in job opportunities and/or higher paying trips for crew members along with increases in revenues. A bi-directional transfer, suggested by alternative 5a-2, would only provide positive economic impacts to the recreational sector if a future quota transfer were large enough to allow for a liberalization of recreational measures. In the absence of an increase in the bag limit resulting from a higher post-transfer RHL, the recreational sector is likely to experience negligible economic impacts. Within the commercial sector, there is a slight negative economic impact associated with a bi-directional transfer which could result from miscalculations in projected commercial landings which could limit the quantity landed by the commercial sector.

#### 8.2 Transfer Caps

#### **8.2.1 Transfer Cap Alternatives**

The no action/status quo transfer cap alternative 5b-1 keeps the existing commercial sector transfer cap in place. If the pre-transfer commercial share of the ACL is less than 10.5 million and the Council and Board determines the need for a transfer from the recreational sector to the commercial sector, the commercial quota may be allocated up to 10.5 million lb as its quota. If the Council and Board selects alternative 5b-1 along with alternative 5a-2, which allows for bidirectional transfers, no transfer cap would be implemented for the recreational sector. Specifically, if the Council and Board determines the need for a transfer from the commercial sector to the recreational sector, the transfer amount and the RHL would not be subject to any cap.

Under alternative 5b-2, any transfer from one sector to the other would be capped at 10% of the ABC (Table 22). This approach allows quota transfers to scale with biomass. The size of the transfer cap will increase and decrease with changes in the acceptable biological catch that are associated with changes in the stock size. Unlike 5b-1, transfers could still occur even when the commercial quota is above 10.5 million pounds.

Table 22: Proposed transfer caps for sector-based transfers.

Alternatives	Transfer Cap
5b-1	No Action/Status Quo
5b-2	Up to 10% of the ABC

#### 8.2.2 Impacts of Transfer Cap Alternatives

Alternative 5b-1 10.5 million lb cap was set through Amendment 1 and was based on the average commercial landings for the period 1990-1997. The existing transfer cap was specifically designed for one-way transfers, and as such, selecting bi-directional transfers with no action on the transfer cap does not cap transfers from the commercial sector to the recreational sector. However, due to the smaller commercial allocation it is highly unlikely that the commercial sector would ever transfer more than 10.5 million lb to the recreational sector, meaning a 10.5 million lb cap on commercial to recreational transfers would not be restrictive anyway.

Alternative 5b-2 would implement a maximum transfer cap of up to 10% of the ABC. Considering a recent time series of ABCs (Table 23), 10% of the average of ABCs from 2000-2019 would result in a sector transfer of 2.97 M lbs. This estimate is smaller than the average transfer over the same time period (4.30 M lbs). However, since alternative 5b-2 is a percentage of the total ABC, future transfer amounts would scale with biomass as bluefish continues through the rebuilding plan. By comparison, the status quo alternative will result in no transfers if the commercial quota exceeds 10.5 M lbs.

Table 23: Recreational to commercial sector transfer amounts, ABCs in million lb, and estimates of retroactive 10% transfer caps from 2000-2019.

Year	<b>Sector Transfer Amount</b>	ABC	10% Transfer Cap
2000	0	36.840	3.684
2001	3.150	37.840	3.784
2002	5.933	29.100	2.910
2003	4.161	39.500	3.950
2004	5.085	34.215	3.422
2005	5.254	34.215	3.422
2006	5.367	29.150	2.915
2007	4.780	32.033	3.203
2008	4.088	31.887	3.189
2009	4.838	34.081	3.408
2010	5.387	34.376	3.438
2011	4.772	31.744	3.174
2012	5.052	32.044	3.204
2013	4.686	27.472	2.747
2014	3.340	24.432	2.443
2015	1.579	21.544	2.154
2016	1.577	19.456	1.946
2017	5.033	20.642	2.064
2018	3.535	21.815	2.182
2019	4.000	21.820	2.182

#### Economic Impacts

The economic impact of sector transfer caps on the commercial bluefish sector are investigated by comparing realized landings data to predicted landings under a 10% ABC cap transfer scenario over 2001-2019. 13 Revenues are also estimated under these two scenarios. Ex-vessel bluefish prices are estimated using the price model and methods described in Appendix B. Revenues are estimated as opposed to incorporating realized revenues in order to establish an equal comparison between the status quo transfer cap alternative (5b-1) and the 10% ABC transfer cap alternative (5b-2) and their economic implications. Quotas under alternative 5b-2 are estimated using the historic ABC's for each year and for each of the sector allocation sub-alternatives presented in section 5.1.1 (i.e., 2a-1 to 2a-5). Then 10% of the ABC is added to the pre-transfer quantities to produce the post-transfer values. Similar to previous economic analyses, it is assumed that all allocated quota is landed when comparing the projected commercial quotas under alternative 5b-2 to the realized landings. It should be noted that in every year in the time series, realized landings have been less than the full allocation generated under the 5b-2 scenario (Figure 17). If the proposed transfer cap had been implemented over the time series, and all else was held constant, landings would not have been restricted by the transfer cap. Further, in some years (2001, 2015, and 2016) the realized post-transfer quantities are less than the 5b-2 scenario <sup>14</sup> such that a transfer

<sup>&</sup>lt;sup>13</sup> Sector transfers occurred on an annual basis from 2001-2019.

<sup>&</sup>lt;sup>14</sup> The realized sector transfer was less than 10% of the ABC.

cap equal to 10% of the ABC would not have impacted landings in these years even if the full historic post transfer landings had been fully utilized.

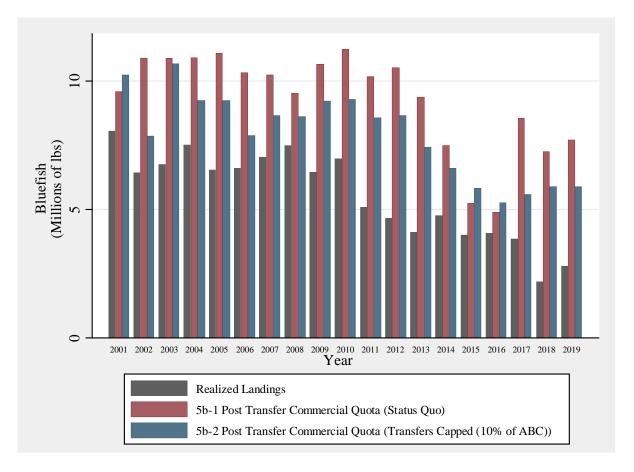


Figure 17: Realized bluefish landings, historical post-transfer commercial bluefish quotas under the status quo alternative 5b-1, and post-transfer commercial bluefish quota with a transfer cap of 10% of the ABC (5b-2) applied over 2001 to 2019.

There are only a handful of years where predicted landings under the 5b-2 transfer scenario are less than realized landings when investigated across the proposed commercial allocations described in section 5.1.1 (Figure 18). Specifically, there are only six years where predicted landings are less than realized landings, all occurring under the 2a-2 (11% commercial allocation) alternative.

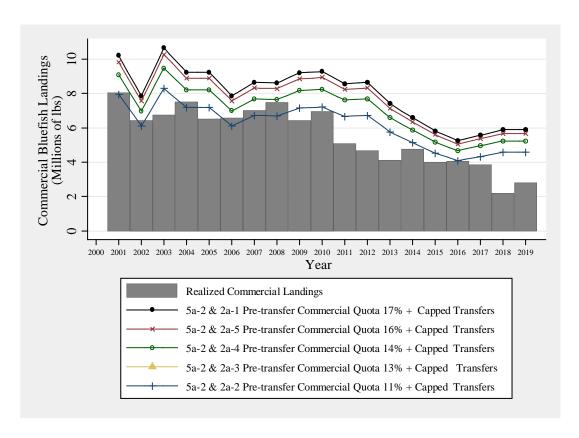


Figure 18: Realized commercial bluefish landings and predicted commercial landings under the 10% ABC cap transfer scenario across proposed commercial allocation alternatives from 2001-2019.

Despite the few instances where realized landings are less than landings predicted under the 5b-2 scenario, estimated revenues are higher under all 5b-2 landings scenarios relative to revenues estimated under the realized landings scenario (Figure 19). This result is driven by the inverse relationship between ex-vessel price and landings (described further in Appendix B). However, higher revenues under the 5b-2 transfer scenario are heavily reliant on the price model which only describes about 68% of the variability in annual prices and is informed by a limited sample size.

In summary, realized commercial bluefish landings are almost always less than the possible landings under the 5b-2 transfer scenario. In the six cases where realized landings *do* exceed landings from the capped transfer scenarios, the differences in revenue are marginal. Overall, there are few cases where bluefish landings/revenues are expected to be impacted by the implementation of a sector transfer cap of 10% of the ABC.

The economic impacts of implementing a 10% cap on sector transfers on the recreational sector of the bluefish fishery are expected to be negligible. Although, these caps would limit the transfer quantities from the commercial sector to the recreational sector, recreational harvest, effort, and expenditures are not expected to be impacted by this sub-alternative unless a sector transfer resulted in the need to adjust recreational measures. In reverse, transfers from the recreational to the commercial sector only occur when the recreational sector is predicted to harvest quantities below the recreational RHL, such that the existence of a transfer cap should not impact recreational harvest, effort, or expenditures.

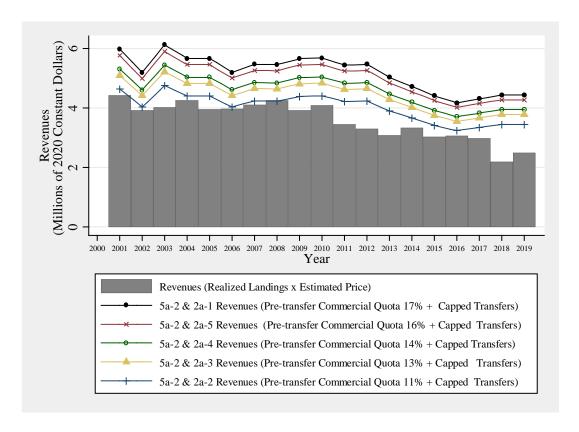


Figure 19: Estimated commercial bluefish revenues (realized landings multiplied by estimated ex-vessel bluefish price) and estimated commercial revenues under the 10% ABC cap sector transfer scenarios across proposed sector allocation alternatives from 2001-2019.

# 9.0 MANAGEMENT UNCERTAINTY ALTERNATIVES AND IMPACTS

### 9.1 Management Uncertainty Alternatives

This alternative set is included to modify how the Monitoring Committee accounts for management uncertainty (Table 24). In the current FMP, the fishery-level ACL may be reduced by a buffer to account for sources of management uncertainty. The ACL minus the management uncertainty buffer equals the ACT as displayed in the bluefish flowchart (Figure 20). The Monitoring Committee annually identifies and reviews the relevant sources of management uncertainty to recommend ACTs for the commercial and recreational fishing sectors as part of the bluefish specification process. The status quo option (alternative 6a) would maintain the bluefish flowchart as displayed in Figure 20, which demonstrates that any uncertainty buffer applied to the fishery-level ACL applies to both sector specific ACTs equally. Alternative 6b would provide greater flexibility by establishing ACLs and ACTs for each sector as displayed in the bluefish flow chart in Figure 21. Specifically, the proposed flowchart allows for management uncertainty to be

accounted for within each sector. This targeted approach would allow for the identification of sources of management uncertainty that are specific to one sector and are not present in the other.

Table 24: Proposed management uncertainty alternatives.

Alternatives	<b>Management Uncertainty Alternatives</b>
6a	No Action/Status Quo
6b	Post-Sector Split

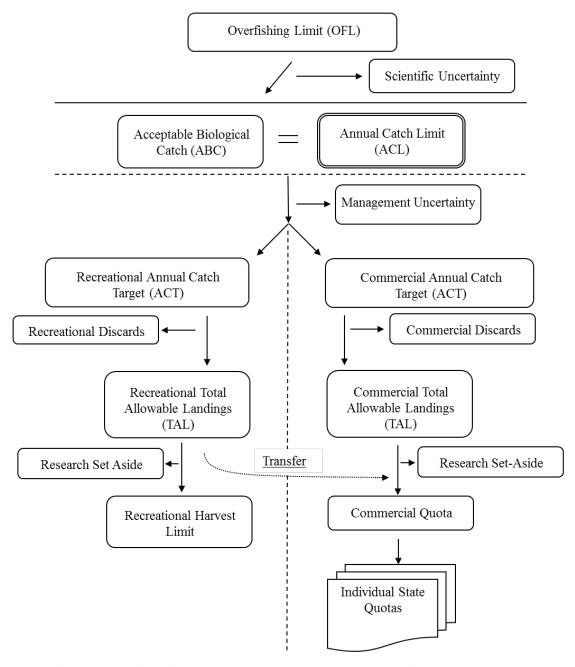


Figure 20: Current bluefish flow chart representing a reduction for management uncertainty prior to the sector split.

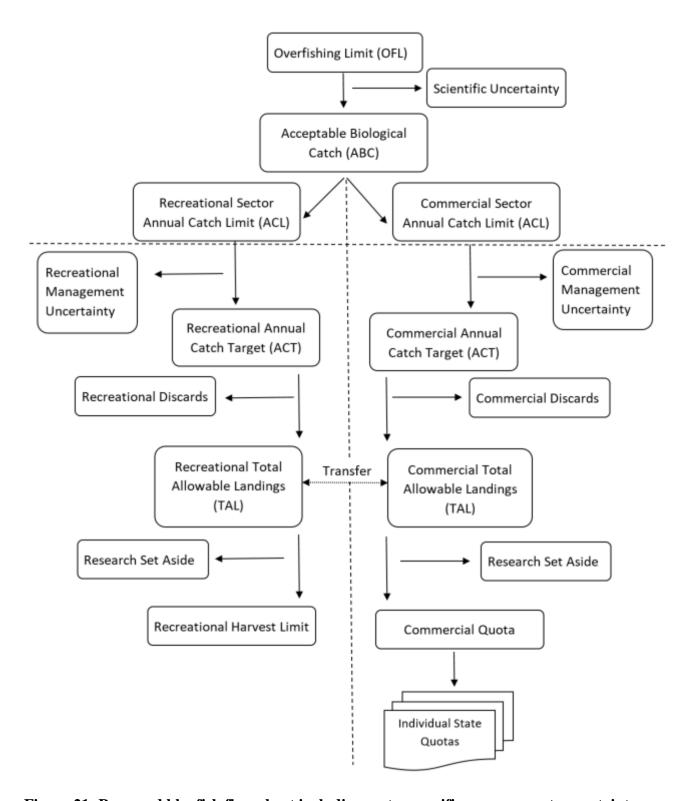


Figure 21: Proposed bluefish flow chart including sector specific management uncertainty.

#### 9.2 Impacts of Management Uncertainty Alternatives

Identifying sources of management uncertainty and applying a buffer to reduce the probability of exceeding an ACL is a helpful tool in the management toolkit. However, the status quo alternative (6a) is lacking in its inability to specifically target sources of uncertainty that are present in one sector and not the other. In the current FMP, the management uncertainty buffer is applied to the fishery-level ACL prior to the sector split and as such has the unintended consequence of reducing both sector's ACLs regardless of the source of management uncertainty. Alternative 6b allows for a more targeted approach, where management uncertainty can be addressed by reducing one sector's ACL to the ACT while leaving the other sector unaffected.

The following example is used for demonstrative purposes only. Under alternative 6a, if the Council and Board are concerned about the lack of data on commercial discards and believe this to be a source of management uncertainty, the fishery-level ACL may be reduced by an agreed upon buffer. According to the flowchart in Figure 20, this reduction trickles down to both the commercial and recreational sectors' ACTs. This negatively impacts the recreational sector's catch and landings limits despite the fact that the source of the management uncertainty was the commercial sector. To avoid these cascading effects, the Council and Board could decide to not implement management uncertainty despite the associated greater potential risk of exceeding the ABC. Using this same example under alternative 6b, the Council and Board has the ability to reduce the commercial sector's ACT through the application of a management uncertainty buffer to the commercial sector ACL. This would leave the recreational sector's ACL unaffected and would not negatively impact the recreational sector's catch or landings limits.

Without the ability to apply sector specific management uncertainty buffers, Council and Board members are faced with the difficult decision of applying management uncertainty to both sectors indiscriminately, or not applying management uncertainty at all and risking potential overages in the fishery-level ACL or ABC.

Ultimately, alternative 6b might have neutral to low positive impacts for resource user groups. If management uncertainty disproportionately affects one sector over another, keeping the process in its current order could continue to frustrate and constrain some stakeholders who might otherwise benefit from determining uncertainties after dividing out sector catch targets. Furthermore, alternative 6b is expected to have minimal to no economic impacts on the commercial and recreational bluefish sectors.

The adoption of alternative 6b would require adjustments to the AMs as currently written. The evaluation of catch overages would transition from the fishery-level ACL to sector specific ACLs. The adoption of sector specific ACLs also has implications for the transfer process. For the purpose of maintaining accurate accounting and accountability of the ACL, both sector's ACLs would be adjusted to reflect the transfer at the landings limit level. If alternative 6b is selected by the Council and Board, the AM regulations would be updated through the federal rule making process for this amendment.

#### 10.0 DE MINIMIS PROVISIONS

Under the Commission's current FMP, states which land less than 0.1% of the coastwide commercial landings in the year prior are exempt from fishery independent monitoring

requirements for the following year. However, the federal plan does not require states to submit fishery independent monitoring reports, and as such has no de minimis provision.

#### 10.1 De Minimis Provision Alternatives

The de minimis alternative set is presented in Table 25. Under the no action/status quo alternative (7a), de minimis status would remain excluded from the Federal Bluefish Amendment and maintain the status quo de minimis provision in the Commission Amendment.

Alternative 7b expands upon the Commission's current de minimis provision. A state's three-year average of combined recreational and commercial landings compared against coastwide landings for the same period with a 1% threshold would be used to determine status. A de minimis determination would exempt the state from recreational measures in addition to the existing exemption of the requirement to conduct fishery independent monitoring. Since de minimis states would be exempt from coastwide recreational measures in state waters, there is potential for recreational effort to shift to de minimis states and for landings to become substantial before adequate action can be taken. To mitigate this de minimis states are encouraged to implement recreational bag limits which would deter shifts in effort to their state.

Alternative 7c provides that a state would be granted de minimis status if the three-year average of the state's combined recreational and commercial landings were less than 1% of coastwide landings during the same period. A de minimis determination would allow a state to maintain a set of minimum default recreational measures in addition to the existing exemption of the requirement to conduct fishery independent monitoring. At the October 2020 meeting, the Board and Council agreed that the fixed set of minimum default measures would consist of a bag limit of 3 fish for anglers fishing from shore or private vessels and 5 fish for anglers fishing on a for-hire trip, no minimum size, and an open season all year. These measures are consistent with the coastwide measures that were implemented in 2020.

Table 25: Proposed de minimis provision alternatives.

Alternatives	De Minimis Alternatives
7a	No Action/Status Quo
7b	Recreational De Minimis
7c	Recreational De Minimis with Default Plan Provisions

#### 10.2 Impacts of De Minimis Provision Alternatives

Alternative 7a is anticipated to have neutral social impacts to the majority of stakeholders to the bluefish resource across user groups and sectors. Taking no action on the de minimis provision is expected to have low negative social impacts to recreational anglers that fish within state waters of de minimis states. These anglers would be subject to the coastwide recreational measures, which as of winter 2021 consist of a 3-fish bag limit for private anglers and a 5-fish bag limit for for-hire party and charter vessels. During the scoping process, the Georgia Department of Natural Resources provided a written request to alter the de minimis provision to allow for an exemption of restrictive recreational measures. GA, along with SC and ME have historically qualified for de minimis status. In the short term, alternative 7b would likely provide more liberalized recreational

measures for anglers operating within these states' waters as well as any states that meet the requirements of de minimis status in the future.

Alternatives 7b and 7c complicate coastwide management of bluefish from an enforcement perspective. Anglers will need to be cognizant of the differing regulations between state and federal waters, as well as differing regulations when crossing state lines from a non de minimis state to a de minimis state. However, these concerns are already at play when states implement recreational measures within state lines under the Commission's conservation equivalency policy that differ from the coastwide measures. Alternative 7b would allow for a greater variety of state measures compared to alternative 7c, which would maintain just one default set of de minimis measures.

From a catch accounting perspective, the proposed de minimis provision in alternative 7b would reduce a state's accountability for its recreational harvest in the short term. Currently, the plan ensures that all states are held accountable by annually evaluating the need to adjust recreational measures to insure coastwide recreational catch does not exceed the RHL. A state that meets the de minimis criteria would not be held accountable in the same way, which raises questions about fairness and equity across state user groups. However, if a de minimis states' recreational landings increase significantly due to an unforeseen increase in angler effort, the state may exceed the 1% coastwide landings threshold and no longer be afforded de minimis status in the coming year. As such, that state will be held accountable and be required to implement recreational measures through the standard specifications process. By comparison, alternative 7c requires more restrictive measures, which has a greater likelihood of constraining de minimis states to low levels of catch.

Ultimately, the de minimis alternative 7b-2 would result in minor economic benefits for states that meet the de minimis criteria. Currently, there is an opportunity cost associated with abiding to the coastwide bluefish recreational regulations, such that relieving a state from adhering to these regulations would give a slight economic advantage to these low-landing states.

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#### 12.0 APPENDIX A SUPPLEMENTAL SOCIAL IMPACTS

#### **Social Impacts**

National Standard 8 (NS8) requires the Council to consider the importance of fishery resources to affected communities and provide those communities with continuing access to fishery resources, but it does not allow the Council to compromise the conservation objectives of the management measures. Thus, continued overall access to fishery resources is a consideration, but not a guarantee that fishermen would be able to use a particular gear type, harvest a particular species of fish, fish in a particular area, or fish during a certain time of the year.

A fundamental difficulty exists in forecasting social change relative to management alternatives, since communities or other societal groups are constantly evolving in response to external factors (e.g., market conditions, technology, alternate uses of waterfront, tourism). Certainly, fishery regulations influence the direction and magnitude of social change, but attribution is difficult with the tools and data available.

While the focus here is on the social impacts of the alternatives, external factors may also influence change, both positive and negative, in the affected communities. External factors may also lead to unanticipated consequences of a regulation, due to cumulative impacts. These factors contribute to a community's ability to adapt to new regulations. When examining potential social impacts of management measures, it is important to consider impacts on the following: the fishing fleet (vessels grouped by fishery, primary gear type, and/or size); vessel owners and employees (captains and crew); bluefish dealers and processors; final users of bluefish; community cooperatives; fishing industry associations; cultural components of the community; and fishing families. While some management measures may have a short-term negative impact on some communities, these should be weighed against potential long-term benefits to all communities which can be derived from a sustainable bluefish fishery.

#### Social Impact Factors

The social impact factors outlined below can be used to describe the Atlantic bluefish fishery, its sociocultural and community context, and its participants. These factors or variables are considered relative to the management alternatives and used as a basis for comparison between alternatives. Use of these kinds of factors in social impact assessment is based on NOAA Fisheries guidance (NMFS 2007) and other texts (e.g., Burdge 1998). Longitudinal data describing these social factors region-wide and in comparable terms is limited. Qualitative discussion of the potential changes to the factors characterizes the likely direction and magnitude of the impacts.

The social impact factors fit into five categories:

- 1. Size and Demographic Characteristics of the fishery-related workforce residing in the area; these determine demographic, income, and employment effects in relation to the workforce as a whole, by community and region.
- 2. The *Attitudes*, *Beliefs*, *and Values* of fishermen, fishery-related workers, other stakeholders and their communities; these are central to understanding the behavior of fishermen on the fishing grounds and in their communities.
- 3. The *Social Structure and Organization*; that is, changes in the fishery's ability to provide necessary social support and services to families and communities, as well as effects on the community's social structure, politics, etc.

- 4. The *Non-Economic Social Aspects* of the fishery; these include lifestyle, health, and safety issues, and the non-consumptive and recreational uses of living marine resources and their habitats.
- 5. The *Historical Dependence on and Participation in* the fishery by fishermen and communities, reflected in the structure of fishing practices, income distribution, and rights (NMFS 2007).

#### Community Fishing Engagement and Social Vulnerability Indicators

In addition to traditional economic indicators such as landings and revenue, fishing communities can also be understood in terms of overall engagement in the commercial and recreational fishery and other social and economic community conditions. NOAA Fisheries social scientists produce indicators of commercial and recreational fishing engagement, reliance, and other community characteristics for virtually all fishing communities throughout the United States, referred to as the Social Indicators of Fishing Community Vulnerability and Resilience (Colburn and Jepson 2012). The Social Indicators are composite indices of factors that comprise community-level latent constructs, such as commercial fishing engagement or social vulnerability. The strength of these indicators is that they provide greater depth and contextualization to our understanding of fishing communities than the more commonly utilized landings and revenue statistics. The Social Indicators provide a more comprehensive view of fishing communities by including social and economic conditions that can influence the viability of commercial and recreational fishing activities, such as gentrification pressure, poverty, and housing characteristics, among other factors.

#### 2009-2018 Recreational Engagement and Reliance

The Recreational Engagement Indicator is a numerical index that reflects the level of a community's engagement in recreational fisheries relative to other communities in the Northeast and Mid-Atlantic. This index was generated using a principal components factor analysis (PCFA) of variables related to recreational fishing activity from the NOAA Fisheries MRIP datasets. PCFA is a common statistical technique used to identify factors that are related, yet linearly independent, and likely represent a latent or unobservable concept when considered together, such as factors that contribute to the level of a community's social vulnerability or engagement in commercial fishing. The variables that were identified to best reflect community engagement in recreational fisheries included; 1) the total number of shore trips per community for each year; 2) the total number of charter trips per community for each year; and 3) the total number of private recreational trips per community for each year. The Recreational Reliance Indicator is calculated by dividing these three variables by the total community population obtained from the U.S. Census Bureau's American Community Survey (ACS). It should be noted that a high engagement score does not necessarily mean that a community or its fishery participants are solely dependent upon recreational fishing activities. There may be other fishing or economic activities that may sustain the livelihoods of individuals or entities within these communities that have relied on recreational fishing historically.

Figure 2 displays the factor scores for the Recreational Engagement Indicator for the fifteen communities that have the highest average recreational engagement between 2009 and 2018. The index factor scores are commonly categorized from low to high based on the number of standard deviations from the mean, which is set at zero. Categories rank from 0.00 or below as "low", 0.00 -0.49 as "medium," and 0.50 - 0.99 as "medium-high," and 1 standard deviation or above as

"high." All of the ports displayed in Figure 1 have "high" recreational engagement. However, there has also been substantial year-to-year variability in recreational engagement for many of these ports. For example, communities in Florida with high average engagement have seen large increases in engagement in recent years relative to the earlier part of the time series, whereas communities in New York and New Jersey have experienced wide fluctuations over time in their extent of recreational fishing engagement.

Figure 3 shows the factor scores for the Recreational Reliance Indicator for the fifteen communities that have the highest average recreational reliance between 2009 and 2018. A comparison of Figure 2 and Figure 3 reveals that some highly engaged communities may not be as highly reliant on recreational fisheries due to the size of those communities and the accompanying opportunities for other social and economic activities. Among the five most highly reliant communities on recreational fisheries over the period of 2009 to 2018 were Barnegat Light, NJ, Topsail Beach, NC, Orient, NY, Hatteras (and all other communities throughout the Outer Banks), NC, and Montauk, NY. In recent years, Nags Head, NC, and Melbourne Beach, FL, have increased considerably in their reliance on recreational fisheries.

#### Community Social Vulnerability Indicators

The Community Social Vulnerability Indicators (CSVI) include indices of labor force structure, housing characteristics, poverty, population composition, and personal disruption. The labor force structure index measures the makeup of the labor force and is reversed scored so that a higher factor score represents fewer employment opportunities and greater labor force vulnerability. The housing characteristics index measures vulnerability related to infrastructure and home and rental values. It is also reversed score so that a higher score represents more vulnerable housing infrastructure. The poverty index captures multiple different factors that contribute to an overall level of poverty in a given area. A higher poverty index score would indicate a greater level of vulnerability due to a higher proportion of residents receiving public assistance and below federal poverty limits. The population composition index measures the presence of vulnerable populations (i.e., children, racial/ethnic minorities, and/or single-parent, female-headed households) and a higher score would indicate that a community's population is composed of more vulnerable individuals. Finally, the personal disruption index considers variables that affect individual-level vulnerability primarily and include factors such as low individual-level educational attainment or unemployment. Higher scores of personal disruption likely indicate greater levels of individual vulnerability within a community, which can in turn impact the overall level of community social vulnerability.

Gentrification Pressure Indicators include housing disruption, urban sprawl, and retiree migration. The Housing Disruption Index combines factors that correspond to unstable or shifting housing markets in which home values and rental prices may cause residents to become displaced. The Urban Sprawl Index indicates the extent of population increase due to migration from urban centers to suburban and rural areas, which often results in cost of living increases and gentrification in the destination communities. The Retiree Migration Index characterizes communities by the concentration of retirees or individuals above retirement age whose presence often raises the home values and rental rates, as well as increase the need for health care and other services. These

components of gentrification pressure influence the degree to which the current residents, communities, and local economies can remain in place, generally, and the extent to which those in the fishing industry in these communities are able to withstand or overcome changes to fisheries conditions and management, specifically. As places go through the process of gentrification, housing becomes less available and/or unaffordable for the existing population and the historically significant local fishing businesses and industries that had once thrived become displaced or replaced by new and emerging industries, such as tourism, finance, real estate, and service.

Data used to develop these indices come from multiple secondary data sources, but primarily the U.S. Census ACS at the place level (Census Designated Place and Minor Civil Division). More information about the data sources, methods, and other background details can be found online at <a href="https://www.st.nmfs.noaa.gov/humandimensions/social-indicators/">https://www.st.nmfs.noaa.gov/humandimensions/social-indicators/</a>. Table 27A displays the CSVI categorical scores for all of the highly engaged and/or reliant communities on recreational fishing activities. Table 28A displays CSVI categorical scores for all highly engaged communities in commercial bluefish fishery activities.

# Socio-Economic Survey of Hired Captains and Crew in New England and Mid-Atlantic Commercial Fisheries (Crew Survey)

The Socio-Economic Survey of Hired Captains and Crew in New England and Mid-Atlantic Commercial Fisheries (hereafter referred to as the Crew Survey) is an ongoing effort conducted by the Social Sciences Branch of the National Oceanic and Atmospheric Administration Fisheries Northeast Fisheries Science Center intended to gather general information about the characteristics and experiences of commercial fishing crew members (including hired captains) because little is known about this critical segment of the commercial fishing industry. Information collected by the survey include demographic information, wage calculations systems, well-being, fishing practices, job satisfaction, job opportunities, and attitudes towards fisheries management, among other subjects. There have been two waves of Crew Survey data collection thus far – Wave 1 in 2012-13 and Wave 2 in 2018-19.

Table 26A: 2018 Community Social Vulnerability Indicator Categorical Scores for Recreational Fishing Communities.

Recreational Fishing Communities.											
Community Poverty Labor Force		Housing Characteristics	Population Composition	Personal Disruption	Housing Disruption	Retiree Migration	Urban Sprawl				
Slaughter Beach, DE	Low	High	Low Low		Low	High	High	Low			
Cape Canaveral, FL	Low	Med-High	Med-High	Low	Low	Med-High	Med-High	Low			
Jacksonville, FL	Medium	Low	Medium	Medium	Medium	Low	Low	Low			
Jacksonville Beach, FL	Low	Low	Low	Low	Low	High	Low	Low			
Melbourne Beach, FL	Low	Medium	Low	Low	Low	Medium	Med-High	Low			
Church Creek, MD	Low	Low	Medium	Low	Medium	Medium	Low	Low			
Nanticoke, MD	Low	Med-High	Low	Low	Low	Low	High	Low			
Ocean City, MD	Low	Medium	Med-High	Low	Low	Med-High	Med-High	Low			
Hatteras/Outer Banks, NC	• 1		Medium	Low	Med-High	Med-High	Medium	Low			
Hobucken, NC	High	Low	Low	Low	Medium	Low	Med-High	Low			
Morehead City, NC	Medium	Medium	Med-High	Low	Medium	Medium	Medium	Low			
Nags Head, NC	Low	Low	Low	Low	Low	High	Low	Low			
Ocracoke, NC	Med-High	Med-High	Low	Medium	High	Low	Med-High	Low			
Topsail Beach, NC	Medium	Med-High	Low	Low	Low	Low	Med-High	Low			
Atlantic Highlands, NJ	Low	Low	Low	Low	Low	Medium	Low	Medium			
Barnegat Light, NJ	Low	High	Low	Low	Low	High	High	Med- High			
Cape May, NJ	Low	Med-High	Low	Low	Low	High	High	Medium			
Babylon, NY	Low	Low	Low	Low	Low	Med-High	Low	High			
Montauk, NY	Low	Medium	Low	Low	Low	High	Med-High	Med- High			
Orient, NY	Low	High	Low	Low	Low	High	High	Med- High			
Narragansett/Point Judith, RI	Low	Medium	Low	Low Low Med-High M		Medium	Low				
Pawleys Island, SC	Low	High	Low	Low	Low	Medium	High	Low			
Virginia Beach, VA	Low	Low	Low	Medium	Low	Medium	Low	Low			
Wachapreague, VA	Low	Med-High	Medium	Low	Low	Low	Med-High	Low			

Table 27A: 2018 Community Social Vulnerability Indicator Categorical Scores for Commercial Bluefish Fishing Communities.

Community	Poverty	Labor Force	Housing Characteristics	Population Composition	Personal Disruption	Housing Disruption	Retiree Migration	Urban Sprawl	
Chatham, MA	Low	High	Low	Low	Low	High	High	Medium	
Gloucester, MA	Low	Low	Low	Low	Low	Medium	Low	Medium	
New Bedford, MA	High	Low	Medium	Med-High	Med-High	Medium	Low	Med-High	
Provincetown, MA	Low	Medium	Low	Low	Low	High	Med-High	Med-High	
Hatteras, NC	Low	High	Low	Low	Low	Low	High	Low	
Wanchese, NC	Low	Low	Med-High	Medium	Low	Medium	Low	Low	
Barnegat Light, NJ	Low	High	Low	Low	Low	High	High	Med-High	
Belford, NJ	Low	Low	Low	Low	Low	High	Low	Medium	
Cape May, NJ	Low	Med- High	Low	Low	Low	High	High	Medium	
Point Pleasant Beach, NJ	Low	Medium	Low	Low	Low	High	Medium	Med-High	
Amagansett, NY	Low	Med- High	Low	Low	Low Low		Med-High	High	
Greenport, NY	Low	Medium	Low	Medium	Medium	High	Medium	Med-High	
Hampton Bays/Shinnecock, NY	Low	Low	Low	Medium	Low	High	Medium	Med-High	
Montauk, NY	Low	Medium	Low	Low	Low	High	Med-High	Med-High	
Narragansett/Pt Judith, RI	Low	Medium	Low	Low	Low	Med-High	Medium	Low	

#### 13.0 APPENDIX B PRICE MODEL

To assess the economic impacts of the various rebuilding alternatives as well as estimation of revenues under various landing scenarios, ex-vessel bluefish prices require estimation. In lieu of well-developed market supply and demand models, an inverse-demand based price model is used to estimate ex-vessel bluefish prices. Though price and quantity demanded are jointly determined such that Gauss Markov assumptions of exogeneity are violated, here, we assume harvest is weakly exogenous to ex-vessel price given the quota allocations and seasonal constraints which cause fishermen to maximize catch in order to maximize profits (Gordon 2020). This specification implies that the decision to fish is independent of ex-vessel prices. This assumption, as well as exvessel price models, are not uncommon in fishery economics literature. <sup>15</sup>

The Generalized Least Squares bluefish price model is given as:

$$(\log)$$
Ex-vessel Price<sub>t</sub> =  $\alpha + \beta_1 (\log)$ Landings<sub>t</sub> + AR<sub>t</sub> (Equation A)

where the dependent variable is the natural logarithm of average annual ex-vessel bluefish price <sup>16</sup> (\$/lb.) and the dependent variable is the natural log of total annual bluefish landings, t is time (i.e., years) and AR is an autoregressive error term. The dependent and independent variables are logged because the relationship between ex-vessel prices and landings is not expected to be strictly linear such that the slope of the regression is not assumed to be constant. The logged GLS model was implemented in place of a logged OLS model as the error term is suggested to be serially correlated over time with a Durbin-Watson d statistic of 0.72. After the implementation of the Prais-Winsten GLS estimator, the Durbin-Watson statistic was transformed to 1.67. It should be noted that additional models were taken into consideration after autocorrelation was detected, including a Cochrane-Orcutt AR(1) regression, linear autoregressive integrated moving-average (ARIMA) specified models with AR(2-5), an OLS regression with the inclusion of a lagged ex-vessel price, and a separate OLS regression with a lagged landings variable. Given the dependence of the lagged OLS regression on the previous year's price, the lack of significance on the AR(n) coefficients when the lag is greater than one <sup>17</sup>, along with the consideration of RMSE's, the Prais-Winsten GLS with an AR(1) error term was chosen. The Prais-Winsten was selected over the Cochrane-Orcutt given a lower RMSE and a Durbin-Watson statistic closer to 2. The Prais-Winsten GLS model parameters and results are shown in Table 29B.

 $^{17} \alpha = 0.01$ 

<sup>&</sup>lt;sup>15</sup> Gordon (2020), Bloznelis (2018) and Tai (2017) offer thorough reviews of various price models and their respective methods.

<sup>&</sup>lt;sup>16</sup> Prices were adjusted to 2020 constant dollars using the Annual, Seasonally Adjusted, Gross Domestic Implicit Price Deflator (2012=100) <a href="https://fred.stlouisfed.org/series/GDPDEF">https://fred.stlouisfed.org/series/GDPDEF</a>.

Table 28B: Prais-Winsten Generalized Least Squares (GLS) logged ex-vessel bluefish price model results.

Variable	Coefficient	Standard Error	t	P>t	95% Confidence I	nterval				
Ln Landings	-0.543	0.0951	-5.71	0	-0.74	-0.35				
Constant	7.753	1.435	5.40	0	4.78	10.73				
ρ	0.688		Durbin-Watson Statistic (original)							
R-squared	0.68		Durbin-W (transforr	atson Stati ned)	stic	1.67				
Number of Obs.	24		Root Mea	ın Square E	rror	0.08				

Both price and landings data were retrieved from the Commercial Fisheries Database (CFDERS) from 1996 to 2019. About 68% of the variability in logged average ex-vessel bluefish prices are explained by logged total annual landings. Modeling the inverse relationship between prices and landings aids in more precisely estimating revenues given various expected landing quantities. The logged price variables are retransformed using Duan's smearing method to avoid inciting heteroskedastic errors. Average realized ex-vessel prices and estimated prices by year are shown in Figure 24B. Average annual predicted ex-vessel prices range from \$0.55 to \$0.98 per lb with an average price of \$0.66/lb. Average realized prices range from \$0.46 to \$1.03/lb and average \$0.66/lb across the time series.

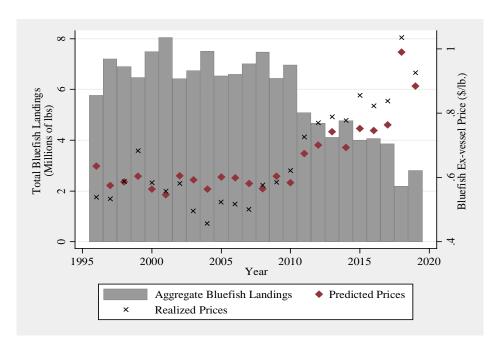


Figure 22B: Realized and predicted ex-vessel bluefish prices and realized commercial bluefish landings by year (1996-2019).

# 14.0 APPENDIX C SUPPLEMENTAL MINIMUM DEFAULT TABLES

Table 29C: Bluefish state-by-state allocation percentage point shift along the U.S. Atlantic coast using different proposed time

series and a minimum default allocation of 0.10% while incorporating a phase-in approach.

	0.1% Minimum Default Allocation Min. Def. Status quo		5 year (	5 year (2014-2018) - 3a-2			10 year (2009-2018) - 3a-3			<b>1/2 '81-'89 1/2 '09-'18</b> - 3a-4			
State	Current Allocations	4-year	5-year	7-year	4-year	5-year	7-year	4-year	5-year	7-year	4-year	5-year	7-year
ME	0.67%	0.02%	0.02%	0.01%	-0.14%	-0.11%	-0.08%	-0.14%	-0.11%	-0.08%	-0.02%	-0.02%	-0.01%
NH	0.41%	0.02%	0.02%	0.01%	-0.07%	-0.06%	-0.04%	-0.05%	-0.04%	-0.03%	0.00%	0.00%	0.00%
MA	6.71%	0.00%	0.00%	0.00%	0.97%	0.78%	0.55%	0.85%	0.68%	0.49%	0.24%	0.19%	0.13%
RI	6.80%	0.00%	0.00%	0.00%	1.24%	0.99%	0.71%	0.70%	0.56%	0.40%	0.20%	0.16%	0.11%
CT	1.26%	0.02%	0.02%	0.01%	0.00%	0.00%	0.00%	-0.04%	-0.03%	-0.02%	0.00%	0.00%	0.00%
NY	10.37%	-0.01%	-0.01%	-0.01%	2.44%	1.95%	1.39%	2.35%	1.88%	1.34%	0.64%	0.51%	0.37%
NJ	14.79%	-0.02%	-0.02%	-0.01%	-0.90%	-0.72%	-0.52%	-0.24%	-0.19%	-0.13%	-0.08%	-0.07%	-0.05%
DE	1.88%	0.02%	0.01%	0.01%	-0.30%	-0.24%	-0.17%	-0.35%	-0.28%	-0.20%	-0.08%	-0.07%	-0.05%
MD	3.00%	0.01%	0.01%	0.01%	-0.36%	-0.29%	-0.20%	-0.27%	-0.22%	-0.15%	-0.06%	-0.05%	-0.04%
VA	11.86%	0.00%	0.00%	0.00%	-1.80%	-1.44%	-1.03%	-1.50%	-1.20%	-0.86%	-0.41%	-0.33%	-0.23%
NC	32.01%	-0.08%	-0.07%	-0.05%	-0.07%	-0.06%	-0.04%	0.00%	0.00%	0.00%	-0.06%	-0.05%	-0.03%
SC	0.10%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%
GA	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
FL	10.04%	-0.01%	0.00%	0.00%	-0.99%	-0.79%	-0.57%	-1.32%	-1.05%	-0.75%	-0.37%	-0.29%	-0.21%

Table 30C: Bluefish state-by-state allocation percentage point shift along the U.S. Atlantic coast using different proposed time series and a minimum default allocation of 0.25% while incorporating a phase-in approach.

0.25% Minimum Default Allocation  Min. Def. Status quo		5 year (	<b>5 year (2014-2018)</b> - 3a-2			<b>10 year (2009-2018)</b> - 3a-3			<b>1/2 '81-'89 1/2 '09-'18</b> - 3a-4				
State	Current Allocations	4-year	5-year	7-year	4-year	5-year	7-year	4-year	5-year	7-year	4-year	5-year	7-year
ME	0.67%	0.06%	0.04%	0.03%	-0.10%	-0.08%	-0.06%	-0.10%	-0.08%	-0.06%	0.01%	0.01%	0.01%
NH	0.41%	0.06%	0.05%	0.03%	-0.03%	-0.03%	-0.02%	-0.01%	-0.01%	-0.01%	0.04%	0.03%	0.02%
MA	6.71%	0.00%	0.00%	0.00%	0.95%	0.76%	0.54%	0.84%	0.67%	0.48%	0.23%	0.19%	0.13%
RI	6.80%	0.00%	0.00%	0.00%	1.21%	0.97%	0.69%	0.69%	0.55%	0.39%	0.19%	0.15%	0.11%
CT	1.26%	0.05%	0.04%	0.03%	0.03%	0.03%	0.02%	-0.01%	-0.01%	-0.01%	0.04%	0.03%	0.02%
NY	10.37%	-0.03%	-0.02%	-0.02%	2.37%	1.90%	1.35%	2.28%	1.82%	1.30%	0.61%	0.49%	0.35%
NJ	14.79%	-0.06%	-0.05%	-0.04%	-0.93%	-0.74%	-0.53%	-0.27%	-0.22%	-0.16%	-0.12%	-0.10%	-0.07%
DE	1.88%	0.05%	0.04%	0.03%	-0.27%	-0.21%	-0.15%	-0.31%	-0.25%	-0.18%	-0.05%	-0.04%	-0.03%
MD	3.00%	0.04%	0.03%	0.02%	-0.33%	-0.26%	-0.19%	-0.24%	-0.19%	-0.14%	-0.04%	-0.03%	-0.02%
VA	11.86%	-0.02%	-0.02%	-0.01%	-1.79%	-1.43%	-1.02%	-1.49%	-1.19%	-0.85%	-0.43%	-0.34%	-0.24%
NC	32.01%	-0.21%	-0.17%	-0.12%	-0.20%	-0.16%	-0.12%	-0.13%	-0.10%	-0.07%	-0.19%	-0.15%	-0.11%
SC	0.10%	0.05%	0.04%	0.03%	0.04%	0.03%	0.02%	0.04%	0.03%	0.02%	0.04%	0.04%	0.03%
GA	0.10%	0.04%	0.03%	0.02%	0.04%	0.03%	0.02%	0.04%	0.03%	0.02%	0.04%	0.03%	0.02%
FL	10.04%	-0.02%	-0.02%	-0.01%	-0.98%	-0.79%	-0.56%	-1.30%	-1.04%	-0.74%	-0.37%	-0.30%	-0.21%

Table 31C: Bluefish state allocations under a trigger threshold for all commercial allocation time series and a minimum default allocation of 0.10%.

Allocation of additional quota beyond the trigger threshold with a				
Minimum Default Allocation of 0.10%.				
State	Status quo	5 year	10 year	1/2 '81-'89
State	(1981-1989)	(2014-2018)	(2009-2018)	1/2 '09-'18
ME	0.10%	0.10%	0.10%	0.10%
NH	0.10%	0.10%	0.10%	0.10%
MA	7.50%	16.60%	18.88%	7.50%
RI	7.50%	16.60%	7.50%	7.50%
CT	3.00%	3.00%	3.00%	3.00%
NY	15.12%	16.60%	18.88%	17.03%
NJ	15.12%	16.60%	18.88%	17.03%
DE	3.00%	0.10%	0.10%	3.00%
MD	3.00%	3.00%	3.00%	3.00%
VA	15.12%	3.00%	7.50%	17.03%
NC	15.12%	16.60%	18.88%	17.03%
SC	0.10%	0.10%	0.10%	0.10%
GA	0.10%	0.10%	0.10%	0.10%
FL	15.12%	7.50%	3.00%	7.50%
Total	100%	100%	100%	100%

Table 32C: Bluefish state allocations under a trigger threshold for all commercial allocation time series and a minimum default allocation of 0.25%.

Allocation of <u>additional</u> quota beyond the trigger threshold with a				
Minimum Default Allocation of 0.25%.				
State	Status quo	5 year	10 year	1/2 '81-'89
State	(1981-1989)	(2014-2018)	(2009-2018)	1/2 '09-'18
ME	0.10%	0.10%	0.10%	0.10%
NH	0.10%	0.10%	0.10%	0.10%
MA	7.50%	16.60%	18.88%	7.50%
RI	7.50%	16.60%	7.50%	7.50%
CT	3.00%	3.00%	3.00%	3.00%
NY	17.03%	16.60%	18.88%	17.03%
NJ	17.03%	16.60%	18.88%	17.03%
DE	3.00%	0.10%	0.10%	3.00%
MD	3.00%	3.00%	3.00%	3.00%
VA	17.03%	3.00%	7.50%	17.03%
NC	17.03%	16.60%	18.88%	17.03%
SC	0.10%	0.10%	0.10%	0.10%
GA	0.10%	0.10%	0.10%	0.10%
FL	7.50%	7.50%	3.00%	7.50%
Total	100%	100%	100%	100%

#### 15.0 APPENDIX D ACRONYMS AND ABBREVIATIONS

ABC Acceptable Biological Catch

ACL Annual Catch Limit

ACS American Community Survey

ACT Annual Catch Target

AM Accountability Measure

Board The Commission's Bluefish Management Board

Commission Atlantic States Marine Fisheries Commission

Council Mid-Atlantic Fishery Management Council

CSVI Community Social Vulnerability Indicators

FMAT Fishery Management Action Team

FMP Fishery Management Plan

GARFO Greater Atlantic Regional Fisheries Office

MC Monitoring Committee

MRIP Marine Recreational Information Program

MSA Magnuson-Stevens Fishery Conservation and Management Act

NOAA National Oceanic and Atmospheric Administration

NEFSC Northeast Fisheries Science Center

NMFS National Marine Fisheries Service

PCFA Principal Components Factor Analysis

RHL Recreational Harvest Limit

SSB Spawning Stock Biomass

SSC Scientific and Statistical Committee

TAL Total Allowable Landings





#### **Bluefish Allocations and Rebuilding Amendment**

FMAT Meeting: January 12, 2021 from 9:00 - 11:00 a.m. Meeting Summary (Dated: January 20, 2021)

#### **Attendees**

FMAT members: Matt Seeley, Dustin Colson-Leaning, Cynthia Ferrio, Michael Celestino, Samantha Werner, Ashleigh McCord, Tony Wood, and Matt Cutler

#### **Meeting objectives**

The objectives of this meeting were for the Fishery Management Action Team (FMAT) to review and discuss the social and economic impacts of each alternative and to review and provide preliminary feedback on a first draft of the public hearing document (PHD). The draft PHD will be presented to the Council and Board for approval on February 10, 2021 from 1:00 – 4:00 p.m.

#### **Meeting summary**

The FMAT began by reviewing the amendment action plan and next steps. A question was raised concerning whether the Bluefish Committee still plans to meet prior to final action, and whether this would be a joint meeting with the Bluefish Management Board (Board). Staff acknowledged that this is typically a step taken in the amendment process, but a date and the specifics have yet to be confirmed. Nonetheless, any meeting of the Committee would be done jointly with the Board.

The FMAT then provided general feedback on the draft PHD, and the main highlights are covered below.

- FMAT members suggested that the impacts of the proposed goals and objectives should include a discussion of equitability across recreational angler modes (for-hire, private, etc.)
- The FMAT discussed the importance of defining the differences between percentage changes, percent point differences, and percentage shifts in the PHD tables.
- FMAT members indicated that there should be more discussion on the allocation change impacts to the recreational sector, even if the impacts are discussed qualitatively.
- The FMAT recommended additional discussion of the interplay between the different alternative sets in the impacts section of each management approach. Many of the alternatives are intertwined and have trickle down effects which should be highlighted for the general public to consider when providing comments.
- The draft PHD contained a table that compared projected landings limits for 2021 under each rebuilding plan. The FMAT removed the table due to the numerous assumptions and high probability that the 2021 landings limits may differ substantially from the projections.
- The FMAT suggested adding a figure that displays all three rebuilding plans.



## **Bluefish Allocation and Rebuilding Amendment - Action Plan**

(Updated as of September 2020)

#### **Amendment Goal**

The goal of this amendment is to review and possibly revise the allocation between the commercial and recreational fisheries and the commercial allocations to the states. This action is needed to rebuild the bluefish stock, avoid overages, achieve optimum yield, prevent overfishing, and reduce the need for quota transfers off the U.S. east coast.

### **Fishery Management Action Team**

The Council will form a team of technical experts, known as a Fishery Management Action Team (FMAT) to develop and analyze management alternatives for this amendment. The FMAT is led by Council staff and includes management partners from the National Marine Fisheries Service (NMFS) Greater Atlantic Regional Fisheries Office (GARFO), the Northeast Fisheries Science Center (NEFSC), the Southeast Fishery Management Council (SAFMC), and the Atlantic States Marine Fisheries Commission (ASMFC). The FMAT will work with other experts to address specific issues, as needed.

## **FMAT Membership**

Name	Role/Expertise	Agency
Matthew Seeley	FMAT Chair	MAFMC
Danielle Palmer	Protected Resources	NMFS GARFO
David Stevenson	Habitat Conservation	NMFS GARFO
Cynthia Ferrio	Sustainable Fisheries	NMFS GARFO
Ashleigh McCord	NEPA	NMFS GARFO
Tony Wood	Population Dynamics	NEFSC
Matthew Cutler	Social Sciences	NEFSC
Samantha Werner	Economist	NEFSC
Dustin Colson Leaning	Plan Coordinator	ASMFC
Mike Celestino	Bluefish Technical Committee	NJDFW

# **Applicable Laws**

Magnuson-Stevens Act	Yes
National Environmental Policy Act	Yes – will require an Environmental Assessment or Environmental Impact Statement
Administrative Procedure Act	Yes
Regulatory Flexibility Act	Yes
Paperwork Reduction Act	Possibly; depends on data collection needs
Coastal Zone Management Act	Possibly; depends on effects of the action on the resources of the coastal states in the management unit
Endangered Species Act	Possibly; level of consultation will depend on the actions taken
E.O. 12866 (Regulatory Planning an Review)	d Yes
E.O. 12630 (Takings)	Possibly; legal review will confirm
E.O. 13123 (Federalism)	Possibly; legal review will confirm
E.O. 13771 (Reducing Regulation and Controlling)	Possibly; legal review will confirm
Essential Fish Habitat	Possibly
Social Impact Analysis	Possibly
Information Quality Act	Yes

# **Expected Document**

Acronym	NEPA Analysis	Requirements
EA	Environmental Assessment	NEPA applies, no scoping required, public hearings required under MSA
EIS	Environmental Impact Statement	NEPA applies, scoping required, public hearings required

# **Draft Timeline for Amendment Development and Implementation**

Task Description	Date (subject to change)	
Initiation and request of FMAT participants	December 2017	
Formation of FMAT	January 2018	
Initial FMAT discussion	March 2018	
ASMFC meeting - review scoping plan and	M. 2010	
document	May 2018	
Scoping hearings / scoping comment period	June-July 2018	
Council Meeting - review scoping comments and FMAT, Advisory Panel (AP), and Monitoring Committee recommendations; discuss next steps	August 2018	
AP Meeting - review amendment goals and objectives, FMAT recommendations, develop recommendations for alternatives; any amendment issues?	July 2019	
FMAT Meeting – review comments and develop draft alternatives	August 2019	
Joint Council and Board Meeting – discuss incorporating rebuilding and review the issues to be covered in the Amendment	October 2019	
Joint Council and Board Meeting – approve supplemental scoping document for additional scoping hearings	December 2019	
Supplemental scoping hearings / scoping comment period	February-March 2020	
FMAT Meeting – review comments and provide recommendations for the scope of the action	April 2020	
Joint Council & Board Meeting - review scoping comments and FMAT recommendations; identify potential alternatives to consider	May 2020	
FMAT Meeting – develop draft alternatives	May 2020	
AP Meeting – provide recommendations on draft alternatives	June 2020	
Joint Bluefish Committee and Board Meeting - review and refine draft alternatives	June 2020	
FMAT Meeting – refine draft alternatives for the August Joint Council Board Meeting	July 2020	
Joint Council & Board Meeting – review and refine draft alternatives	August 2020	
FMAT Meeting – finalize draft alternatives for the October Joint Council Board Meeting	September 2020	
Joint Council & Board Meeting – review and approve alternatives for public hearing document	October 2020	

Development of public hearing document and hearing schedule	October 2020-January 2021	
Joint Council & Board Meeting – approve public hearing document	February 2021	
Public hearings	March/April 2021	
AP Meeting - recommendations for final action	March/April 2021	
Bluefish Committee Meeting - recommendations for final action	Spring 2021	
Joint Council & Board Meeting - final action	May/June 2021	
Submission of draft EA/EIS to GARFO	Summer 2021	
Draft EA/EIS revisions and resubmission	Summer/Fall 2021	
Rulemaking (proposed rule)	Fall 2021	
Rulemaking (final rule)	Winter 2021	



#### Mid-Atlantic Fishery Management Council

800 North State Street, Suite 201, Dover, DE 19901 Phone: 302-674-2331 | FAX: 302-674-5399 | www.mafmc.org Michael P. Luisi, Chairman | P. Weston Townsend, Vice Chairman Christopher M. Moore, Ph.D., Executive Director

#### MEMORANDUM

**Date:** January 29, 2021

**To:** Chris Moore, Executive Director

From: Julia Beaty, staff

**Subject:** Offshore Wind Energy Updates

On February 11, 2021, the Council will receive updates related to offshore wind energy development from the Bureau of Ocean Energy Management (BOEM) and two offshore wind energy developers. The following information and background materials were provided by the presenters.

#### 1) BOEM

- BOEM will update the Council on the status of active renewable energy leases and environmental studies (see pages 2-3 of this tab).
- The most immediate opportunity for informing the offshore wind program is an open solicitation for public comments on a Draft Environmental Impact Statement for the South Fork Wind Farm Construction and Operations Plan. South Fork Wind is proposing to construct up to 15 wind turbines approximately 19 miles southeast of Block Island, Rhode Island, and 35 miles east of Montauk Point, New York. Three public virtual public meetings will be held on February 9 at 1:00 p.m., February 11 at 5:00 p.m., and February 16 at 5:00 p.m. More information is available <a href="here">here</a>. Comments must be submitted by 11:59 PM on February 22, 2021.

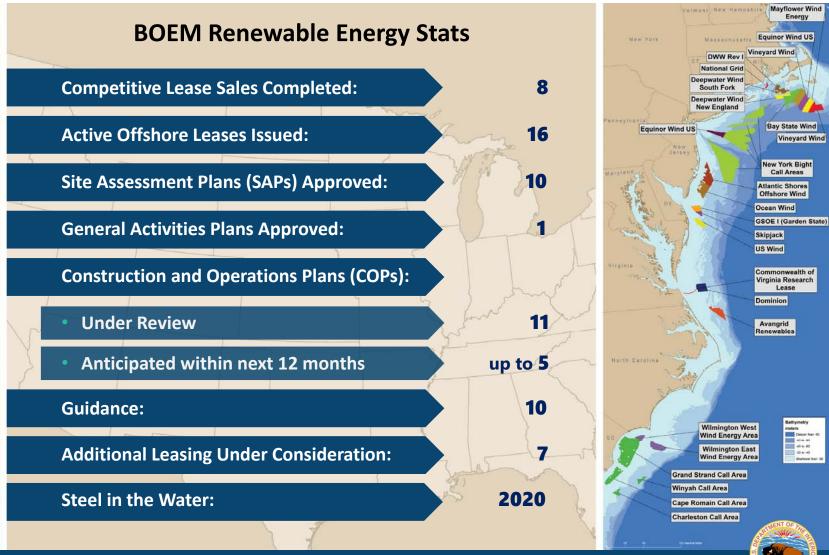
#### 2) Coastal Virginia Offshore Wind (CVOW)

- A fact sheet on the CVOW project is provided with this tab (pages 4-5)
- Additional information on CVOW is available at www.coastalvawind.com

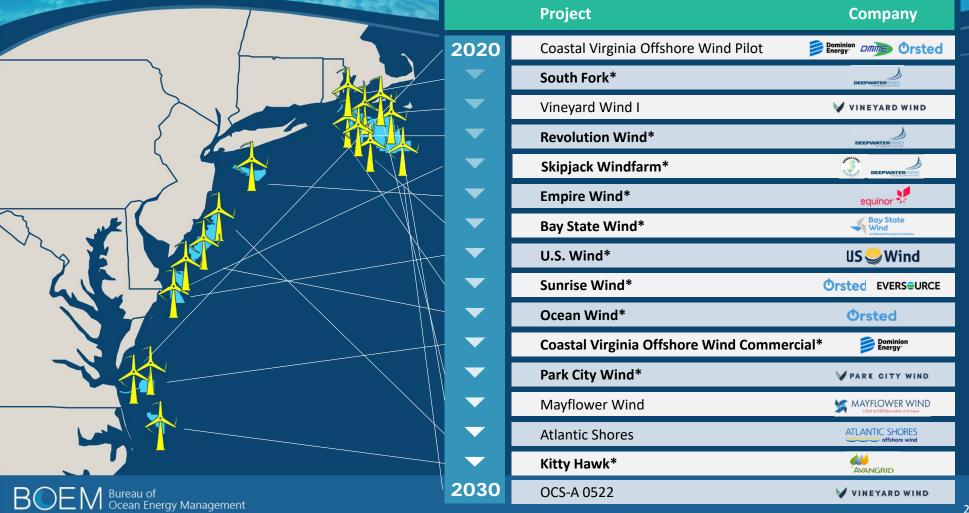
#### 3) Kitty Hawk Wind

- A presentation outline and contact information are provided with this tab (pages 6-8)
- Additional information on Kitty Hawk Wind is available at <u>www.kittyhawkoffshore.com/fisheries</u>





## Atlantic OCS Renewable Energy: "Projects in the Pipeline"







#### What is the Coastal Virginia Offshore Wind (CVOW) Project?

CVOW is the first offshore wind project ever in federal waters. Located 27 miles off the coast of Virginia Beach, it will include enough wind turbine capacity to generate 2,640-megawatts of energy that will be transmitted back to shore and subsequently into the Commonwealth's onshore electricity grid. CVOW will power up to 660,000 homes, but beyond this multi-billion-dollar investment in clean, non-carbon-based energy, it will create hundreds of new, well-paying jobs and position Virginia to host an industry that does not yet exist in this nation. Dominion Energy is working collaboratively to attract the supply chain, both to build and maintain CVOW and other wind farms likely to rise along the Atlantic seaboard, making our air cleaner and America more energy secure for generations to come.

#### What are the benefits of offshore wind to Hampton Roads and Virginia?



#### **Clean Energy Jobs**

Creates clean energy and manufacturing jobs throughout the Commonwealth



#### **Clean Energy Economy**

Foundation that can develop into a Virginia supply chain hub to stimulate economic growth and drive down costs



#### **Clean Air**

Generates enough energy to power 660,000 homes, with zero emissions and fuel costs



#### **Clean Energy Goals**

Serves as a critical resource in meeting the Commonwealth's renewable and clean energy commitments



#### **Clean Energy Diversity**

Complements solar because wind and solar produce peak energy at different times throughout the year

#### **Construction Average Economic Impacts Per Year**

900

direct and indirect Virginia jobs annually (about 60 percent in Hampton Roads) \$57

million in pay and benefits

\$143

million in economic output

**\$2** 

million in revenues for local governments in the Hampton Roads area \$3

million in Virginia state tax revenues

#### Operations and Maintenance Per Annum 2027 Going Forward

1,100

direct and indirect jobs annually in Hampton Roads

\$82

million in pay and benefits

\$210

million in economic output

**\$6** 

million in revenues for local governments in the Hampton Roads area

\$5

million in Virginia state tax revenues



#### **Dominion Energy is committed to maximizing project benefits:**

- Maximizing commerce opportunities for Virginia vendors, subcontractors, and suppliers.
- Priority hiring of veterans and individuals from disadvantaged communities.
- Actively recruiting diverse Virginia businesses through outreach programs that include education sessions and construction expositions.
- Collaborating with the Hampton Roads Alliance and other key partners.



Want to learn more?

Scan the QR code or visit **coastalvawind.com** 



# Coastal Virginia Offshore Wind

### Timeline







Mid-Atlantic Fishery Management Council
Fisheries Update
11 February 2021

# Kitty Hawk Offshore Wind Lease OCS-A 0508

## **Fisheries presentation**

- Project update
- Fisheries independent and fisheries dependent data
- Fisheries data integration
- Discussion and next steps

### **Questions?**

Brian Benito Jr. - Sr. Permitting Manager, Kitty Hawk <a href="mailto:brian.benito@avangrid.com">brian.benito@avangrid.com</a>
503.382.0107

Jennifer Eastaugh - Project Manager, Kitty Hawk jennifer.eastaugh@avangrid.com
503.382.0108

Rick Robins - Fisheries Liaison Officer, Kitty Hawk rick@fathomedgelimited.com
757.876.3778

## kittyhawkoffshore.com/fisheries

- Fisheries FAQs
- Fisheries Notices
- Real-time weather and sea state information



#### Mid-Atlantic Fishery Management Council

800 North State Street, Suite 201, Dover, DE 19901 Phone: 302-674-2331 | FAX: 302-674-5399 | www.mafmc.org Michael P. Luisi, Chairman | P. Weston Townsend, Vice Chairman Christopher M. Moore, Ph.D., Executive Director

#### MEMORANDUM

**Date:** January 29, 2021

**To:** Council

**From:** Chris Moore

**Subject:** Executive Director's Report

The following materials are enclosed for Council review at the February 2021 Council Meeting during the Executive Director's Report:

- 1. 2021 Planned Council Topics
- 2. Status of Council Actions Under Development
- 3. Status of Completed MAFMC Actions and Specifications
- 4. Draft Action Plan to Address Current Species Separation Requirements in the Atlantic Surfclam and Ocean Quahog Fisheries
- 5. MAFMC Letter to GARFO Regarding Development of a Possession Limit for Bullet and Frigate Mackerel
- 6. 2019 Catch Accounting Report for Summer Flounder, Scup, and Black Sea Bass (cover letter and report)
- 7. Northeast Fisheries Impacts from COVID-19
- 8. Staff Memo: Aquaculture Web Page
- 9. Staff Memo: Stock Assessment Web Page
- 10. Staff Memo: Advisory Panel Reappointment Process and Communication and Outreach AP Overview
- 11. Staff Memo: MSA Reauthorization Huffman/Case Discussion Draft
- 12. Proposed SOPP Revisions



## 2021 Planned Council Meeting Topics

Updated 1/29/21

#### February 1, 2021 (ASMFC Winter 2021 Meeting)

- Recreational Reform Initiative: Update (Joint with Policy Board)
- Black Sea Bass Commercial Allocation Amendment: Final Action (Joint with SFSBSB Board)

#### February 10-11, 2021 Council Meeting (Webinar)

- Atlantic Large Whale Proposed Rule and Draft Biological Opinion
- Aquaculture Update
- Offshore Wind Update
- River Herring and Shad White Papers: Review
- Bluefish Allocation and Rebuilding Amendment: Approve Public Hearing Document (Joint with Bluefish Board)

#### April 6-8, 2021 Council Meeting

- Summer Flounder, Scup, and Black Sea Bass Commercial/Recreational Allocation Amendment: Final action (Joint with SFSBSB Board)
- Climate Change Scenario Planning: Update
- Golden Tilefish Multi-Year Specifications Framework: Framework Meeting 1
- 2022-2024 Blueline Tilefish Specifications: Approve
- 2021 Mid-Atlantic State of the Ecosystem Report
- 2021 EAFM Risk Assessment
- EAFM Summer Flounder Management Strategy Evaluation: Update
- RSA Redevelopment Workshop: Update

#### June 8-10, 2021 Council Meeting (Virginia Beach, VA)

- Advisory Panel Appointment Recommendations (Executive Committee Closed Session)
- Unmanaged Commercial Landings Report: Review
- Bluefish Allocation and Rebuilding Amendment: Final Action (Joint with Bluefish Board)
- 2022 Longfin Squid and Butterfish Specifications: Review
- 2022 *Illex* Squid Specifications: Approve
- *Illex* Incidental Trip Limit and Butterfish Mesh Regulation Modification: Review and Recommend Changes if Appropriate
- Surfclam and Ocean Quahog 2022 Specifications: Review
- Habitat Activities Update (including wind and aquaculture)

#### August 9-12, 2021 Council Meeting (Philadelphia, PA)

- Summer Flounder, Scup, and Black Sea Bass 2022-2023 Specifications and Commercial Measures: Approve (Joint with SFSBSB Board)
- Commercial Scup Discards and Gear Restricted Areas: Review

- Bluefish 2022-2023 Specifications: Approve (Joint with Bluefish Board)
- Recreational Reform Initiative (Joint with Policy Board)
- EAFM Summer Flounder Management Strategy Evaluation: Update and Feedback (Joint with SFSBSB Board)
- SSC Economic Work Group: Update on RSA Redevelopment Case Study
- Golden Tilefish Multi-Year Specifications Framework: Final Action
- Golden Tilefish Specifications: Review 2022 and Approve 2023-2024
- 2022 Atlantic Mackerel Specifications (including RH/S cap): Review (note that 2021 management track assessment may necessitate re-setting for 2022-2023)
- Surfclam and Ocean Quahog Species Separation Requirements: Review White Paper and Identify Next Steps

#### October 5-7, 2021 Council Meeting (New York, NY)

- 2022 Implementation Plan: Discuss Draft Deliverables (Executive Committee)
- Joint Council-SSC Meeting
- HMS Diet Study Final Report: Review
- Chub Mackerel 2022 Specifications: Review
- Action to Implement a Possession Limit for Bullet and Frigate Mackerel: Update
- 2022 Spiny Dogfish Specifications: Review
- Spiny Dogfish Trip Limit Analyses: Review and Recommend Changes if Appropriate
- Ocean City, MD Video Project: Review Results
- Private Tilefish Permitting/Reporting Evaluation

#### **December 13-16, 2021 Council Meeting (Annapolis, MD)**

- 2022 Implementation Plan: Approve
- Recreational Reform Initiative (Joint with Policy Board)
- Summer Flounder, Scup, and Black Sea Bass 2022 Recreational Management Measures: Approve (Joint with SFSBSB Board)
- Bluefish 2022 Recreational Management Measures: Approve (Joint with Bluefish Board)
- Biennial Review of 2020-2024 Research Priorities Document: Review and Approve
- EAFM Summer Flounder Management Strategy Evaluation: Update and Feedback (Joint with SFSBSB Board)
- RSA Workshop Report: Review
- Habitat Activities Update (including wind and aquaculture)

#### MID-ATLANTIC FISHERY MANAGEMENT COUNCIL

## 2021 Council Meeting Topics At-a-Glance

	February 10-11	April 6-8	June 8-10	August 8-12	October 5-7	December 13-16
Mackerel, Squid, Butterfish and River Herring and Shad (RH/S)	• RHS White Papers		<ul> <li>2022 Illex Specs</li> <li>2022 Longfin and Butterfish Specs Review</li> <li>Illex Incidental Trip Limit and Butterfish Mesh Regulations</li> </ul>	2022 Mackerel Specs Review (including RH/S cap)	Chub mackerel     2022 Specs     Review	
Summer Flounder, Scup, Black Sea Bass (SF/S/BSB)		SF/S/BSB     Com/Rec     Allocation Amd:     Final Action		<ul> <li>SF/S/BSB 2022- 2023 Specs</li> <li>Commercial Scup Discards and GRAs: Review</li> <li>Rec Reform Initiative</li> </ul>		<ul> <li>Rec Reform Initiative</li> <li>SF/S/BSB 2022 Rec Mgmt Measures</li> </ul>
Bluefish	<ul> <li>Bluefish Amd: Approve Public Hearing Document</li> </ul>		Bluefish Amd:     Final Action	• Bluefish 2022-2023 Specs		<ul> <li>Bluefish 2022</li> <li>Rec Mgmt</li> <li>Measures</li> </ul>
Tilefish		<ul> <li>Golden Tilefish Multi-Year Specs FW</li> <li>2022-2024 Blueline Tilefish Specs</li> </ul>		<ul> <li>Golden Tilefish Multi-Year Specs FW: Final Action</li> <li>Golden Tilefish Specs: Review 2022 and Approve 2023- 2024</li> </ul>	<ul> <li>Private Tilefish Permitting/ Reporting Evaluation</li> </ul>	
Atlantic Surfclam and Ocean Quahog (SC/OQ)			• SC/OQ 2022 Specs Review	<ul> <li>SC/OQ Species</li> <li>Separation: Review</li> <li>White Paper and</li> <li>Identify Next Steps</li> </ul>		
Spiny Dogfish					<ul><li>2022 Dogfish Specs Review</li><li>Dogfish Trip Limit Analysis</li></ul>	
Science Issues		RSA Workshop: Update		SSC Economic Work Group: Update on RSA Case Study	<ul> <li>Joint Council-SSC Meeting</li> <li>HMS Diet Study Report</li> <li>Ocean City Video Project: Review Results</li> </ul>	<ul> <li>Biennial Review of 2020-2024 Research Priorities</li> <li>RSA Workshop Report: Review</li> </ul>
EAFM		<ul> <li>2021 Mid- Atlantic State of the Ecosystem Report</li> <li>2021 EAFM Risk Assessment</li> <li>EAFM Summer Flounder MSE Update</li> </ul>		• EAFM Summer Flounder MSE Update		• EAFM Summer Flounder MSE Update

	February 10-11	April 6-8	June 8-10	August 8-12	October 5-7	December 13-16
Other	<ul> <li>Atl. Large Whale Proposed Rule and Draft Biological Opinion</li> <li>Aquaculture Update</li> <li>Offshore Wind Update</li> </ul>	Climate Change Scenario Planning Update	<ul> <li>Advisory Panel Appointments</li> <li>Unmanaged Commercial Landings Report</li> <li>Habitat Update</li> </ul>		<ul> <li>Discuss 2022         Draft         Deliverables     </li> <li>Bullet and Frigate</li> <li>Mackerel Action</li> <li>Update</li> </ul>	<ul> <li>2022 Implementation Plan: Approve</li> <li>Habitat Update</li> </ul>

#### **Acronyms/Abbreviations**

Amd	Amendment	MSE	Management Strategy Evaluation
Com/Rec	Commercial/Recreational	Mtg	Meeting
Com	Commercial	Rec	Recreational
EAFM	Ecosystem Approach to Fisheries Management	RH/S	River Herring and Shad
FMP	Fishery Management Plan	SC/OQ	Atlantic Surfclam and Ocean Quahog
GRAs	Gear Restricted Areas	SF/S/BSB	Summer Flounder, Scup, Black Sea Bass
HMS	Highly Migratory Species	Specs	Specifications
Mgmt	Management	SSC	Scientific and Statistical Committee
MSB	Mackerel, Squid, Butterfish		

#### **Actions Referenced in this Document**

- Bluefish Amd: Bluefish Allocation and Rebuilding Amendment
- SF-S-BSB Com/Rec Allocation Amd: Summer Flounder, Scup, Black Sea Bass Commercial/Recreational Allocation Amendment
- Rec Reform Initiative: Recreational Management Reform Initiative
- Golden Tilefish Multi-Year Specs FW: Golden Tilefish Multi-Year Specifications Framework
- **SC/OQ Species Separation:** Action to address current species separation requirements in the Atlantic surfclam and ocean quahog fisheries
- Bullet and Frigate Mackerel Action Update: Action to implement a possession limit for bullet and frigate mackerel



# Status of Council Actions Under Development

AS OF 1/29/21

FMP	Action	Description	Status	Staff Lead
Summer Flounder, Scup, Black Sea Bass	Commercial/ Recreational Allocation Amendment	This joint MAFMC/ASMFC amendment will reevaluate and potentially revise the commercial and recreational sector allocations for summer flounder, scup, and black sea bass. This action was initiated in part to address the allocation-related impacts of the revised recreational data from MRIP. <a href="http://www.mafmc.org/actions/sfsbsb-allocation-amendment">http://www.mafmc.org/actions/sfsbsb-allocation-amendment</a>	The Council and Board have scheduled public hearings between February 17 and March 2, 2021 and are soliciting written comments until March 16, 2021.	Dancy/Coutre/ Beaty
	Black Sea Bass Commercial State Allocation Amendment	This joint MAFMC/ASMFC action will consider adjusting the allocations of the black sea bass commercial quota among states and whether the allocations should be managed jointly by the Council and Commission. <a href="http://www.mafmc.org/actions/bsb-commercial-allocation">http://www.mafmc.org/actions/bsb-commercial-allocation</a>	The Council and Board took final action on some aspects of this amendment in December 2020 and expect to take final action on the remaining alternative sets during their joint meeting on February 1.	Beaty
Bluefish	Bluefish Allocation and Rebuilding Amendment	This joint MAFMC/ASMFC amendment considers potential revisions to the allocation of Atlantic bluefish between the commercial and recreational fisheries and the commercial allocations to the states. This action will also review the goals and objectives of the bluefish FMP and the quota transfer processes and establish a rebuilding plan for bluefish.  http://www.mafmc.org/actions/bluefish-allocation-amendment	The Council and Board expect to approve a public hearing document at the joint February meeting	Seeley
Summer Flounder, Scup, Black Sea Bass and Bluefish	Recreational Reform Framework and Technical Guidance Documents	The Council and Policy Board initiated a framework/addendum to address the following topics for summer flounder, scup, black sea bass, and bluefish: (1) better incorporating MRIP uncertainty into the management process; (2) guidelines for maintaining status quo recreational management measures (i.e., bag, size, and season limits) from one year to the next; (3) a process for setting multi-year recreational management measures; (4) changes to the timing of the recommendation for federal waters recreational management	The Council and Policy Board will discuss next steps during their joint meeting on February 1.	Beaty

FMP	Action	Description	Status	Staff Lead
		measures; and (5) a proposal put forward by six recreational organizations called a harvest control rule. The Council and Policy Board may consider addressing some of these topics through a technical guidance document, rather than a framework/addendum. <a href="https://www.mafmc.org/actions/recreational-reform-initiative">https://www.mafmc.org/actions/recreational-reform-initiative</a>		
	Recreational Sector Separation and Catch Accounting Amendment	This joint MAFMC/ASMFC amendment considers (1) options for managing for-hire recreational fisheries separately from other recreational fishing modes and (2) options related to recreational catch accounting, such as private angler reporting and enhanced vessel trip report requirements for for-hire vessels. <a href="https://www.mafmc.org/actions/recreational-reform-initiative">https://www.mafmc.org/actions/recreational-reform-initiative</a>	The Council and Policy Board initiated this action at the joint October 2020 meeting. Scoping hearings may take place in fall 2021.	Beaty
Surfclam and Ocean Quahog	Addressing Current Surfclam and Ocean Quahog Species Separation Requirements	As surfclams have shifted toward deeper water in recent years, catches including both surfclams and ocean quahogs have become more common. Current regulations do not allow surfclams and ocean quahogs to be landed on the same trip. The Council is exploring options to address this issue.	An FMAT has been established, and their first meeting was held 11/17/2020.	Coakley/ Montañez
Omnibus	Omnibus Amendment for Data Modernization	This amendment will address the regulatory changes needed to fully implement the Agency's Fishery-Dependent Data Initiative.	The Council last received an update at the October 2018 meeting.	GARFO/NEFSC

# Timeline and Status of Recent MAFMC Actions and Amendments/Frameworks Under Review As of 1/29/21

The table below summarizes the status of actions after they have been approved by the Council. For information about the status of Council actions under development, please see the document titled "Status of Council Actions Under Development."

Status	Amendment/Framework	Action Number	Council Approval	Initial Submission	Final Submission	NOA Published	Proposed Rule Published	Approval/ Disapproval Letter	Final Rule Published	Regs Effective	Notes
Open	Summer Flounder Commercial Issues and Goals and Objectives Amendment	TBD	3/6/19	3/17/20	5/7/20	7/29/20	8/12/20	10/19/20	12/14/20	1/1/21	
Open	Excessive Shares Amendment	TBD	12/9/19	4/24/20	9/25/20						
Open	Omnibus Risk Policy Framework	TBD	12/9/19	8/5/20	10/16/20		11/12/20		12/15/20	12/15/20	
Open	Omnibus Commercial eVTR Framework	TBD	MAFMC: 12/11/19; NEFMC: 1/29/20	3/4/20	4/14/20	7/17/20	7/17/20		11/10/20	11/10/21	
Open	MSB FMP Goals/Objectives and Illex Permits Amendment	MSB AM 22	7/16/20								Planned submission February 2021.

# Timeline and Status of Current and Upcoming Specifications for MAFMC Fisheries As of 1/29/21

<b>Current Specifications</b>	Year(s)	Council	Initial	Final	Proposed	Final Rule	Regs	Notes
		Approval	Submission	Submission	Rule		Effective	
Golden Tilefish	2021-2022	4/8/20	5/11/20	7/21/20	11/13/20	12/21/20	12/21/20	
Blueline Tilefish	2019-2021	4/11/18	8/17/18	10/24/18	11/19/18	2/12/19	2/12/19	
Surfclam and Ocean	2021-2026	8/12/20	9/2/20					
Quahog								
Longfin Squid	2021-2023	8/10/20	10/14/20					
Butterfish	2021-2022	8/10/20	10/14/20					
Illex Squid	2020-2021	6/17/20	10/14/20					NMFS already implemented 2020 via
								inseason action and SIR completed by
								staff - 2021 in same EA as MSB approved
								in Aug
Atlantic Mackerel	2021-2022	8/10/20	10/14/20					
(including RH/S cap)								
Chub mackerel	2020-2022	3/7/19	5/31/19	10/25/19	3/9/20	8/4/20	9/3/20	Reviewed October 2020. No changes
								recommended.
Bluefish	2021 (revised)	8/11/20			11/5/20	12/16/20	12/16/20	
Summer Flounder, Scup,	2021 (revised)	8/11/20	9/30/20	11/20/20	11/17/20	12/21/20	1/1/21	
Black Sea Bass								
Spiny Dogfish	2021-2022	10/6/20	12/7/20					

#### **Recreational Management Measures**

Current Management Measures	Year(s)	Council Approval	Initial Submission	Final Submission	Proposed Rule	Final Rule	Regs Effective	Notes
Summer flounder recreational measures	2021	12/15/20	1/20/21					Rulemaking required each year to continue use of conservation equivalency
Black sea bass recreational measures	2021	2/14/18	3/5/18	4/10/18	4/11/18	5/31/18	5/31/18	Reviewed in 2020. No changes from prevous year's measures.
Scup recreational measures	2021	12/10/14	3/20/15		5/5/15	6/19/15	6/19/15	Reviewed in 2020. No changes from prevous year's measures.
Bluefish recreational measures	2021	12/10/19	1/23/20	3/19/20	5/25/20	6/29/20	6/29/20	Reviewed in 2020. No changes from prevous year's measures.

# Draft Action Plan to Address Current Species Separation Requirements in the Atlantic Surfclam and Ocean Quahog Fisheries (updated as of January 27, 2021)

Council: Mid-Atlantic.

**Type of Action:** Initially a White Paper.

**Applicable Fisheries:** Atlantic Surfclam and Ocean Quahog.

**Objective of Action:** The objective of the initial white paper is to synthesize information on the scale and scope of co-occurrence ("commingling") in the surfclam and ocean quahog fisheries and the extent to which this has created issues for the industry related to the current species separation requirements. This paper will develop recommendations for options to address these issues.

**Background:** Current regulations do not allow for both surfclam and ocean quahog to be landed on the same trip or placed in the same cages - these are a result of the Individual Transferable Quota (ITQ) system which requires landings by species to be effectively tracked. Industry has expressed concern about the commingling of these clams on trips because of potential enforcement concerns. Industry noted that they are currently avoiding areas where species co-occur to the extent possible because mixed catches are undesirable, as processors can only process one species at a time. There is not an easy way to fully separate these species onboard and industry has indicated that onboard sorting by hand is not a desirable outcome.

**Expected Results:** The white paper will describe the extent of the co-occurrence of the species, and how this relates to the current species separation regulations and enforcement of those regulations, the data streams collected to accurately manage these species (e.g., for stock assessments, catch limit and ITQ fishery monitoring, etc.), and industry operations and practices. It will evaluate current sources of data (e.g., observer (onboard), dockside (port sampling), dealer data (shoreside), clam survey, etc.) and will solicit industry input on this issue. The white paper will also explore options/approaches to separate the catch (e.g., by hand or through automatized means such as electronic monitoring (EM)). This paper should summarize information available on different types of approaches to address the issue, as well as some of the potential costs.

It is possible that the recommendations made in the white paper could be addressed via regulatory action by NMFS or recommendations for new measures and regulations by the Council through an Amendment.

**Additional Expertise Sought:** The Fisheries Management Action Team (FMAT) for this action will be composed of staff from the Council, Greater Atlantic Regional Fisheries Office (GARFO), the Northeast Fisheries Science Center (NEFSC) and NOAA/NMFS Office of Science and Technology (OST). The FMAT will serve as the primary team for amendment development and analysis.

Fishery Management Action Team (FMAT)									
Agency	Person								
MAFMC	FMAT Chair	Jessica Coakley							
MAFMC	Other Staff Technical Support	José Montañez							
NMFS GARFO	NMFS GARFO Sustainable Fisheries – GARFO								
NMFS GARFO	Analysis & Program Support Division	John Sullivan							
NMFS NEFSC	Socioeconomics	John Walden							
NMFS NEFSC	Resource Evaluation & Assessment/Population Dynamics	Daniel Hennen							
NMFS OST	Electronic Technologies	Brett Alger							

Other Issues: No additional development issues have been identified.

**Tentative Timeline** (dependent on progress on action):

**Note:** Italics = complete.

July 2020	FMAT formed
November 17, 2020	FMAT meeting
November 2020 - January 2021	Review data to assess scope of co-occurrence of species
January 2021	Begin developing white paper
February 2021	Include Action Plan in Briefing Book Materials
April 2021	Input from Advisory Panel on preliminary analysis
May 2021	FMAT meeting
July 2021	FMAT Findings presented to SCOQ Committee
August 2021	FMAT reports white paper findings to the full Council and SCOQ Committee. Council provides direction to the FMAT on next steps



#### Mid-Atlantic Fishery Management Council

800 North State Street, Suite 201, Dover, DE 19901 Phone: 302-674-2331 | FAX: 302-674-5399 | www.mafmc.org Michael P. Luisi, Chairman | P. Weston Townsend, Vice Chairman Christopher M. Moore, Ph.D., Executive Director

January 4, 2021

Mr. Michael Pentony Regional Administrator National Marine Fisheries Service Greater Atlantic Region 55 Great Republic Drive Gloucester, MA 01930-2276

Dear Mr. Pentony:

During their December 2020 meeting, the Mid-Atlantic Fishery Management Council (Council) adopted a 2021 Implementation Plan, which includes initiation of an action to implement a possession limit for frigate mackerel (*Auxis thazard*) and bullet mackerel (*A. rochei*) in the Mid-Atlantic. Further consideration of the appropriate type of management action and the specific options to be considered will take place in 2021 in coordination with GARFO.

Bullet and frigate mackerel are prey for many species, including wahoo, blue marlin, yellowfin tuna, and dolphin. Their ecosystem importance is underscored by the South Atlantic Fishery Management Council's recent action to designated them as Ecosystem Components through Amendment 12 to their Dolphin Wahoo Fishery Management Plan.

Available data suggest that catch of bullet and frigate mackerel in the Mid-Atlantic is low. The Mid-Atlantic Council wishes to consider a proactive approach to preventing increased harvest of these ecologically important species, unless such harvest can be done in a sustainable manner supported by the best scientific information available.

As a first step in determining the most appropriate path forward, the <u>Council requests clarified</u> guidance from NMFS on the use of the Ecosystem Component (EC) designation, including how measures intended to protect the ecosystem roles of such species may be implemented across jurisdictions and fishery management plans.

The National Standards Guidelines at 50 CFR 600.310(c)(5) state that "Councils may choose to identify stocks....as EC species...if a Council determines that the stocks **do not require conservation and management** based on the considerations and factors in paragraph (c)(1) of this section...Consistent with NS9, MSA Section 303(b)(12)...**management measures can be adopted** in order to...protect the role of EC species in the ecosystem, and/or to address other ecosystem issues" (emphasis added).

The South Atlantic Council's Dolphin Wahoo Amendment 12 brought to light regional differences in interpretation regarding permissible management measures for species which do not "require conservation and management." The Councils would benefit from clarified guidance regarding how discretionary management measures can be used to protect the ecosystem role of a prey species,

without such measures implying that the stocks "require conservation and management" (and thus should not be designated as ECs).

In addition, given that the ecosystem importance of bullet and frigate mackerel is not restricted to the jurisdiction of a single Council, guidance is also requested for how the EC designation can be used to protect the ecosystem role of a stock across jurisdictions and fishery management plans.

We look forward to working with GARFO on this issue in the new year.

Sincerely,

Christopher M. Moore, Ph.D.

**Executive Director** 

CC: M. Luisi, P. Townsend, T. DiLernia, D. Hemilright, P. deFur, J. Beaty, E. Gilbert, J. Carmichael, J. Hadley

### **UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration**

NATIONAL MARINE FISHERIES SERVICE GREATER ATLANTIC REGIONAL FISHERIES OFFICE 55 Great Republic Drive Gloucester. MA 01930

January 15, 2021

Dr. Christopher Moore Executive Director Mid-Atlantic Fishery Management Council 800 North State Street, Suite 201 Dover, DE 1990

#### Dear Chris:

We recently completed the 2019 summer flounder, scup, and black sea bass year-end catch accounting, and the final report is attached to this letter. A summary table is provided below (Table 1).

Table 1: Fishing year 2019 summer flounder, scup, and black sea bass catch, overfishing limits,

and acceptable biological catches (amounts presented in metric tons (mt).

Stock	Total Catch	Overfishing Limit (OFL)	Difference	Acceptable Biological Catch (ABC)	Difference
Summer Flounder	9,816	13,609	-32%	11,354	-14%
Scup	11,642	18,612	-46%	16,525	-35%
Black Sea Bass	5,370	4,667	14%	4,055	28%

In 2019, there were no overages of the ABCs or OFLs for summer flounder and scup. The recreational and commercial annual catch limits (ACL) for both species were not exceeded.

However, in 2019, black sea bass catch exceeded most of the established catch limits, including OFL (Table 2). Total catch of black sea bass was 5,370 mt, the OFL was 4,667 mt, and the ABC was 4,055 mt. The status determination criteria for black sea bass make use of the annual fishing mortality rate (F) relative to a maximum fishing mortality rate (MFMT) to determine if overfishing has occurred. As explained below, it is not currently possible to make an appropriate F-based overfishing determination given changes in data and assessment methodology. However, exceeding the OFL is cause to alert the Council and warrants further evaluation.

Table 2: Fishing year 2019 black sea bass specifications compared to the year-end data (in mt).

Black Sea Bass 2019 Specification		Black Sea Bass 2019 Catch and Landings Data		
OFL	4,667	Total Catch	14%	
ABC 4,055		Total Catch 5,370		28%
Commercial ACL = ACT	Commercial Catch	2,330	16%	



Projected Commercial	377	Commercial Discards	731	64%
Discards				
Commercial Quota	1,596	Commercial Landings	1,599	0.2%
Recreational ACL = ACT	2,083	Recreational Catch	3,040	37%
Projected Recreational	422	Recreational Dead	1,468	111%
Discards		Discards		
Recreational Harvest Limit	1,661	Recreational Landings	1,572	-6%

Fishing year 2019 was the last year that the black sea bass catch limits were based on the previous Marine Recreational Information Program (MRIP) catch estimation process and data; 2020 and 2021 catch limits were established from an updated stock assessment in 2019, which incorporated the new, revised MRIP time series. This new assessment yielded considerably higher catch limits, including the OFL, in comparison to catch limits established using the previous MRIP information. The 2020 OFL was 8,795, and the 2021 OFL is 8,021 mt, in contrast to the 2019 OFL of 4,667 mt. Had the 2019 catch limits been set using the new MRIP time series we expect that the OFL, ABC, and corresponding limits for the commercial and recreational fisheries would have been significantly higher.

The MFMT, the level at which overfishing occurs on the stock, is 0.46. The 2019 stock assessment assumed catch of black sea bass, in 2019, was 7,917 mt, which would have resulted in an estimated fishing mortality of 0.33, below the 0.46 threshold. Actual 2019 catch was 5,370 mt,. Although these values cannot be directly compared because of the different MRIP data used in the 2019 assessment and 2019 catch accounting, it provides meaningful context to the 2019 overage.

However, until we are able to evaluate the 2019 catch in the context of the new MRIP time series, we cannot determine if that level of catch resulted in exceeding the fishing mortality target causing overfishing, or would result in a negative impact on the stock. A management track assessment for black sea bass is scheduled for June 2021. A data update from August 2020 indicated continued stock growth (increasing biomass indices) for a stock that, during the last assessment, was determined to be 2.4 times above the biomass target.

The 2019 recreational harvest limit (RHL) was not exceeded; however, recreational discards were 1,046 mt more than the projected level used in the specification-setting process (i.e., reduction from annual catch target (ACT) to RHL). Similarly, commercial discards were more than projected, resulting in overall commercial catch that exceeded the commercial ACT and ACL. Underestimation during specification setting of both commercial and recreational discards has been an issue for several recent years. At its October 2020 meeting, the Council adopted the Monitoring Committee's recommendation to revise the discard estimation methodology to address concerns of persistent underestimation. This method results in more catch being set aside to account for discards in both sectors. The updated method was applied when setting the 2021 catch limits, correcting part of the operational issue that contributed to the 2019 OFL overage.

We do not intend to adjust 2021 catch limits in response to the 2019 overage. The best available scientific information on black sea bass indicates that the stock is well above the biomass target and increasing. Moreover, the 2021 catch limits, and the 2020 limits before those, based on the most recent assessment information incorporating the revised MRIP estimates were expected to

provide a high probability of ensuring overfishing would not occur. The Council has addressed the operational issue of discard underestimation and while the new methods have not been fully evaluated against year-end accounting, they are expected to have greater efficacy in preventing OFL overages. The Council may recommend additional catch limit changes or other management responses if it so chooses.

The 2021 stock assessment update will also provide us important information to better assess the impact of 2019 catch. We encourage the Council to continue to closely monitor the performance of the black sea bass fishery, including discard estimates, and take appropriate actions necessary to ensure overfishing does not occur.

If you have any questions on the report, please contact Emily Keiley at (978) 281-9116.

Sincerely,

Michael Pentony Regional Administrator

Mil! Poty

cc: Dr. Jon Hare, Science and Research Director, Northeast Fisheries Science Center

Enclosure

#### FY2019 summer flounder Annual Catch Limit And Commercial Quota Accounting

	Pounds	Metric tons	Percent of ACL (6,136 mt)
summer flounder commercial landings	8,461,219	3,838	62.5%
summer flounder state-permitted only vessel landings	602,857	273	4.5%
summer flounder estimated dead discards	1,738,145	788	12.8%
summer flounder commercial catch	10,802,221	4,900	79.9%

Source: commercial fisheries dealer accessed on November 10, 2020; and observer reports accessed on July 25, 2020.

			Percent of Commercial quota
	Pounds	Metric tons	(4,981 mt)
summer flounder commercial landings (including commercial Research Set-Aside landings)	9,064,076	4,111	
summer flounder commercial Research Set-Aside landings	0	0	
summer flounder commercial landings (excluding commercial Research Set-Aside landings)	9,064,076	4,111	82.5%

Source: commercial fisheries dealer reports database and Research Set-Aside landings database, accessed on November 10, 2020.

	Pounds	Metric tons	Percent of RACL (5,218 mt)
summer flounder recreational landings	7,798,282	3,537	67.8%
summer flounder recreational dead discards	3,040,175	1,379	26.4%
summer flounder recreational catch	10,838,457	4,916	94.2%
summer flounder recreational Research Set-Aside landings	0	0.0	

Source: MRIP website, queried on November 6, 2020; Research Set-Aside landings database, accessed on November 10, 2020; Mark Terciero, personal communication, November 12, 2020.

#### FY2019 scup Annual Catch Limit And Commercial Quota Accounting

	Pounds	Metric tons	Percent of ACL (12,891mt)
scup commercial landings	11,650,166	5,284	41.0%
scup state-permitted only vessel landings	2,133,914	968	7.5%
scup estimated dead discards	5,241,897	2,378	18.4%
scup commercial catch	19,025,977	8,630	66.9%

Source: commercial fisheries dealer accessed on November 10, 2020; and observer reports accessed on July 25, 2020.

			Percent of Commercial quota
	Pounds	Metric tons	(10,877 mt)
scup commercial landings (including commercial Research Set-Aside landings)	13,784,080	6,252	
scup commercial Research Set-Aside landings	0	0	
scup commercial landings (excluding commercial Research Set-Aside landings)	13,784,080	6,252	57.5%

Source: commercial fisheries dealer reports database and Research Set-Aside landings database, accessed on November 10, 2020.

	Pounds	Metric tons	Percent of RACL (3,633 mt)
scup recreational landings	5,404,647	2,452	67.5%
scup recreational dead discards	1,234,589	560	15.4%
scup recreational catch	6,639,235	3,012	82.9%

Source: MRIP precalibrated data, sent by Ryan Kitts-Jensen on November 17, 2020; Mark Terceiro, personal communication, November 12, 2020.

FY2019 black sea bass Annual Catch Limit And Commercial Quota Accounting

	Pounds	Metric tons	Percent of ACL (1,973 mt)
black sea bass commercial landings	2,876,726	1,305	66.1%
black sea bass state-permitted only vessel landings	648,225	294	14.9%
black sea bass estimated dead discards	1,611,611	731	37.1%
black sea bass commercial catch	5,136,562	2,330	118.1%

Source: commercial fisheries dealer database accessed on November 9, 2020; and observer reports accessed on July 26, 2020.

			Percent of Commercial quota
	Pounds	Metric tons	(1,597 mt)
black sea bass commercial landings (including commercial Research Set-Aside landings)	3,524,951	1,599	
black sea bass commercial Research Set-Aside landings	0	0	
black sea bass commercial landings (excluding commercial Research Set-Aside landings)	3,524,951	1,599	100.1%

Source: commercial fisheries dealer reports database, and Research Set-Aside landings database, accessed on December 12, 2019; and observer reports accessed on July 26, 2020.

	Pounds	Metric tons	Percent of RACL (2.082 mt)
black sea bass recreational landings	3,465,844	1,572	75.5%
black sea bass recreational dead discards	3,236,386	1,468	70.5%
black sea bass recreational catch	6,702,230	3,040	146.0%
black sea bass recreational Research Set-Aside landings	0	0	

Source: MRIP precalibrated data, sent by Ryan Kitts-Jensen on November 17, 2020; Research Set-Aside landings database accessed on November 9, 2020; Gary Shepherd, personal communication, December 1, 2020.



In April 2020, NOAA Fisheries prepared its first national report on the regional impacts of COVID-19 on the commercial, recreational and aquaculture sectors. This report updates that initial assessment. capturing economic changes experienced by the fishing industry as the country began its phased reopening along with infusion of Federal funding through the CARES Act. NOAA Fisheries will continue to use this information to identify economic hardship where it exists and identify pathways for enhancing the resilience of the U.S. seafood and fisheries industries.

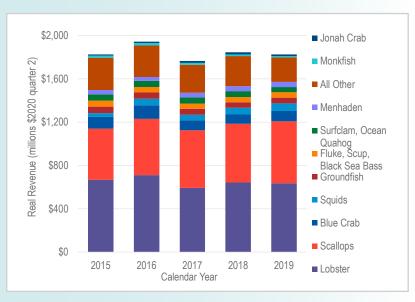


# Northeast Fisheries Impacts from COVID-19

# Commercial Fisheries Landings Trends and Impacts through June 2020

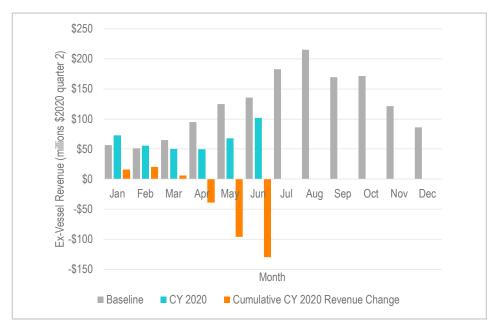
From 2015 to 2019 an average of approximately 13,500 commercial fishing vessels operated in the Northeast region, accounting for an average of \$1.82 billion in ex-vessel revenue. Of these vessels, about 3,400 held permits issued by the Greater Atlantic Regional Fisheries Office (GARFO), which accounted for 69% of region-wide harvest revenue while the remaining 31% of regional fishing revenue was landed by 10,100 vessels that either fished in state waters or fished in the EEZ for species that are not regulated by a Federal Fishery Management Plan (FMP) or held federal permits for Highly Migratory Species (HMS) (e.g. tunas, swordfish, and sharks) that are not issued by GARFO. The Northeast has a variety of commercial fisheries, with lobsters and scallops alone averaging just over \$1 billion (64%) of total landings revenue from 2015 to 2019 (see Figure 1). Important fisheries for blue crab, squids, groundfish, menhaden, surfclams, ocean quahogs, summer flounder, black sea bass, scup, monkfish, and Jonah crab accounted for an additional \$392

million. These fisheries combined with lobster and scallops accounted for an average of 86% of landings revenue.



**Figure 1.** Inflation adjusted ex-vessel revenue for the top 10 Northeast region fisheries.

Although most Northeast fisheries are prosecuted year-round, there are seasonal differences among fisheries that have implications for the timing and magnitude of potential market disruptions resulting from COVID-19. For many fisheries, 40 to 60% of annual revenue is earned during the months from January to June. Figure 2 plots the 2015-2019 January-Dec baseline monthly average revenue from lobster and species that are regulated by the Regional Councils (New England and Mid-Atlantic) and 2020 Jan-Jun revenues.¹ Calendar year 2020 revenues exceeded baseline revenue during January and February but have been below baseline March to June for a cumulative difference of -\$126 million. The majority of the cumulative reduction in 2020 revenues occurred in April and May (70%) of which \$79 million was associated with reduced revenue from American lobster (\$21 million) and sea scallops (\$58 million) (see Figure 3). The reduction in sea scallop revenue was partly due to a 17% reduction in the scallop quota from 2019 levels that took effect at the start of the scallop fishing year on April 1, 2020. Based on 2015-2019 average share of landings for April (10.7%) and May (15.4%) expected 2020 landings for a 51.6 million pound quota would be 5.5 and 7.9 million pounds in April and May respectively. Actual landings were 4.4 million pounds in April and 5.3 million pounds in May for an aggregate reduction of 3.7 million pounds. Note that June scallop landings were 7.3 million pounds, which is nearly equal to what would be expected based on 14% of a 51.6 million pound quota and is similar to the baseline average landings for June. However, June scallop prices were nearly 13% below the 2015-2019 average resulting in 2020 June revenues \$8.7 million below baseline. In fact, lower prices have been a general trend for many species throughout the Northeast region.



**Figure 2.** Ex-vessel monthly revenue for the baseline (2015-2019), CY2020, and the cumulative CY2020 revenue change.



Figure 3. CY2020 monthly revenue minus the baseline monthly average monthly revenue.

Across nearly all species, month over month prices have been well below baseline 2015-2019 prices (see Figure 4) even as landings have been down. For example, lobster prices were initially 13% above baseline average prices in January but declined by 39.6% to \$4.82 per pound in March, 2020 compared to an average of \$7.99 per pound during March, 2015-2019. In June 2020 the average price per pound fell to \$3.82 from a 2015-2019 June price of \$5.29 per pound. Surfclam and ocean quahog prices per bushel were one of the few species where 2020 prices have remained at or slightly above 2015-2019 baseline prices.

The general decline in landings and prices, hence revenues has affected the number of federally permitted vessels that have landed fish with a federally permitted dealer in the Northeast region. During 2015-2019, the number of vessels was at its lowest during February (1,314) then increased through July to 2,657 vessels before tapering off throughout the rest of the year. The number of vessels reporting sales through a Northeast region dealer was above the 2015-2019 baseline average in both January and February but began to fall to 15.3% below the baseline in March and continued to run about 25% below the baseline in both April and May (see Figure 5). A survey was conducted to ascertain how commercial harvesters may have been affected by COVID-19. Key findings from that survey are as follows:

#### 83% OF COMMERCIAL HARVESTERS WERE AFFECTED BY THE COVID-19 PANDEMIC

- Fishing was the primary source of income for 63% of commercial harvesters On average responding commercial harvester operators had owned a vessel for 32 years.
- Compared to business operations from January to June of 2019:
  - 17% had reduced the number of trips.
  - 14% had difficulty finding supplies.
  - 60% experienced lack of markets; low prices; limited access to marinas.
- 78% of commercial harvest operators stopped fishing for some period of time.

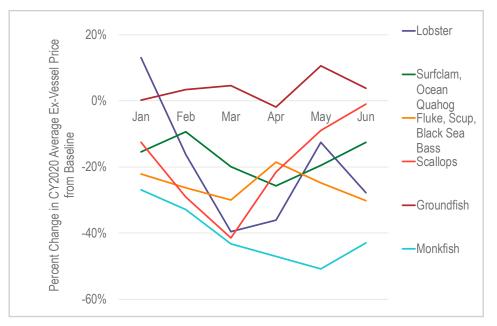


Figure 4. Percent change in CY2020 average ex-vessel price from baseline (2015-2019).

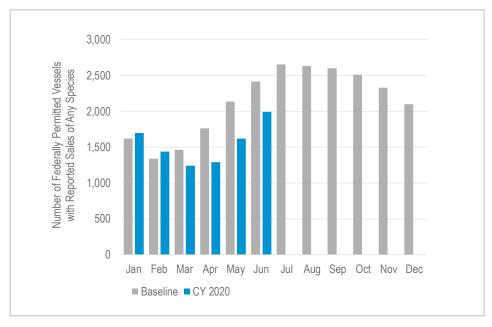


Figure 5. Number of federally permitted vessels with reported sales of any species.

- 21% stopped fishing for less than 1 month.
- 48% stopped fishing for 1 to 3 months.
- 11% stopped fishing for more than 3 months.
- 15% had stopped fishing indefinitely with plans to resume.
- Less than 1% had gone out of business.
- On average, responding commercial harvester operators are operating at 50% of trips compared to June/July of 2019.
- 76% of responding commercial harvester operators had not reduced the number of employees.
- 91% of responding commercial harvester operators had reduced revenue, 3% had increased revenue.
  - Average reduction in revenue was 51%.
  - Average increase in revenue was 73%.

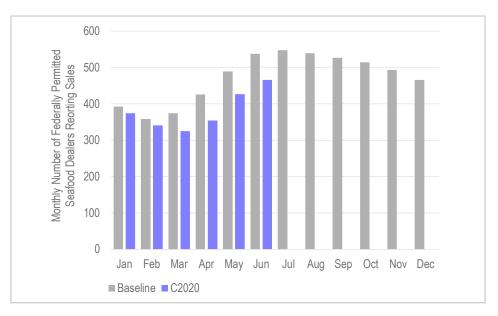
#### The top three COVID-19 pandemic factors having the largest impact on the business were:

- Instructed not to fish by dealer/processor (30%).
- Low prices for fish (30%).
- Lack of markets or buyers (8%).

#### **Seafood Dealers/Processors**

During 2015-2019 an average 640 federally permitted seafood dealers reported purchase of fish and/or shellfish from a fishing vessel in the Northeast Region. Although some seafood products that are primarily exported have a high volume of exports (e.g., lobster and

monkfish), much of the Northeast region's seafood product is consumed domestically. There are a mix of species that are primarily sold fresh to restaurants with limited processing, and these had sizable price and revenue declines due to closures of restaurants. Changes in seafood consumption habits have shifted to frozen shelf-stable products and value added processing to meet increased demand for preparation at home, which has been noted as a significant change in seafood consumption from away-from-home to at-home consumption. The changes in seafood wholesale and retail markets have resulted in a decline in the number of federally permitted dealers that have purchased seafood by a month-over-month average of nearly 11% from January to June 2020 compared to 2015-2019 baseline January to June monthly average (see Figure 6).



**Figure 6.** Monthly number of federally permitted seafood dealers reporting sales for January to June 2020, as compared to baseline monthly averages (2015-2019).

NOAA Fisheries conducted a survey of seafood dealers to ascertain the impacts of

the COVID-19 pandemic on business operations over the January to June, 2020 period. Key findings from that survey are as follows:

#### SEAFOOD DEALER/PROCESSORS — 91% OF RESPONDENTS WERE IMPACTED

- Most common impacts were:
  - Reduced operations or business hours (35%).
  - Reduced sales to restaurants, retail, or grocery stores (35%).
- 35% of dealer/processors closed their business operations for some period of time.
  - 29% were closed for less than 1 month.
  - 48% were closed for 1 to 3 months.
  - 6% were closed for more than 3 months.
  - 16% have closed indefinitely with plans to reopen.
- On average, responding dealer/processors were operating at 58% of business activity compared to June/July of 2019.
- Average number of on-site employees was 15. 37% of businesses had reduced the number of on-site employees by an average of 3 people. By contrast, 10% of businesses increased the number of employees by an average of 10 people.
- 85% of dealer/processors reported reduced sales since January 2020 while 8% reported increased sales.
  - Of those having increased sales, revenues increased an average of 15%.
  - Of those with reduced sales, revenues decreased by an average of 44%.

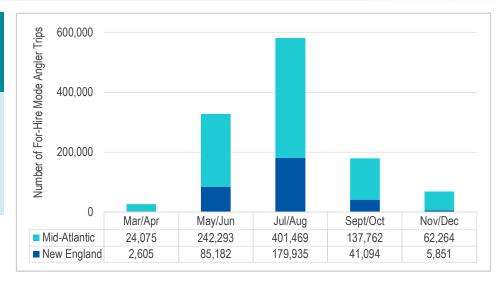
# The top three COVID-19 pandemic factors having the largest impact on the business were:

- Dealer/processors listed low seafood prices (29%).
- Loss of markets or buyers (19%).
- Loss of employees (12%).

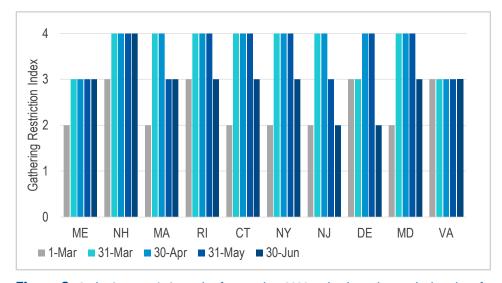
# Recreational Fishing — For-Hire

The recreational for-hire sector in the Northeast region includes a range of services from trips that carry six or fewer passengers that may focus on large game (e.g., tunas or sharks) or small game (e.g., bluefish or striped bass), to operations that carry a large number of anglers that focus on bottom fishing for species such as groundfish, black sea bass, scup, and summer flounder. During 2015 to 2019 for-hire operators in the New England and Mid-Atlantic regions combined collected passenger fees averaging \$123.5 million (2020 \$) providing recreational fishing services on an average of 1.2 million angler trips. Of these angler trips 888 thousand (73%) were taken in Mid-Atlantic states from NY to VA and 315 thousand angler trips were taken in the New England region.<sup>2</sup> Demand for party/charter services is seasonal with the majority of trips taken from May to August in both New England (84%) and Mid-Atlantic MRIP regions (74%) although the season is longer in the Mid-Atlantic (see Figure 7).

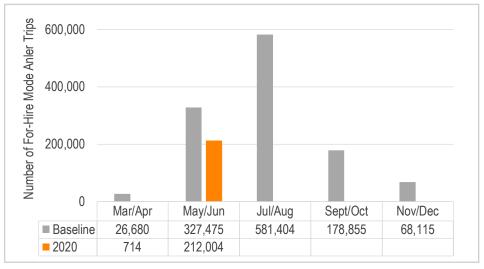
Given the close proximity within which forhire recreational fishing occurs and guidance for social distancing had a large effect on angler trips as restrictions on gathering and closures of non-essential business were implemented in New England and Mid-Atlantic states particularly during March and lasting through much of May and into June for some states. The timing and relative severity of the restrictions on gatherings is measured as an index rating from 0 to 4 where 0 is no restrictions at all and 4 would be limitations of 5 to 10 or fewer (see Figure 8).3 With the exception of VA with an index value of 3, all other states were at a 2; allowing gatherings ranging from 50 to 250. By the end of Match Maine



**Figure 7.** Average number of for-hire angler trips by wave for New England and Mid-Atlantic MRIP regions for a 2015 to 2019 baseline.



**Figure 8.** Gathering Restriction Index for March 1, 2020 and Index Value on the last day of the month for March to June, 2020.<sup>3</sup>



**Figure 8.** Number of for-hire angler trips taken during 2020 wave 2 and wave 3 compared to the baseline average (2015-2019).

and Virginia were at a 3 but all other states had implemented much more restrictive limits on gathering. In most states these limits remained in place during April and May with easing of restrictions in many states by the end of June.

Even though statewide restrictions may not necessarily apply to for-hire businesses specifically they may have a dampening impact on the demand for party/charter fishing trips. During wave 2 (March and April) when limits on gatherings were most restrictive the number of for-hire angler trips in the New England and Mid-Atlantic regions combined fell from a 2015-2019 baseline average of about 26.7 thousand to 714. (see Figure 9). With some easing of the restrictions on gatherings the number of for-hire angler trips during wave 3 (May and June) increased to 212 thousand but was still 35% lower than the baseline average of 327.5 thousand angler trips.

To obtain more information on impacts on the for-hire sector NOAA Fisheries conducted a survey of for-hire operators in the New England and Mid-Atlantic regions to get their perspectives on the impact of the response to COVID-19 has had on their business over the January to June, 2020 period compared to their business over the same period from 2019. Key for-hire interview findings include:

#### 91% OF PARTY/CHARTER OPERATORS WERE AFFECTED BY THE COVID-19 PANDEMIC

- For 35% of responding fishing was their primary source of income.
- Compared to business operations from January to June of 2019:
- 45% had reduced the number of trips.

13% had difficulty finding supplies.

- 6% had difficulty obtaining bait.
- 87% of responding party/charter operators stopped fishing for some period of time.
  - 9% stopped fishing for less than 1 month.
  - 63% stopped fishing for 1 to 3 months.
  - 11% stopped fishing for more than 3 months.
  - 16% had stopped fishing indefinitely with plans to resume.
  - 2% went out of business.
- On average party/charter operators are operating at 42% compared to June/July of 2019.
- 75% of responding party/charter operators had not reduced the number of employees.
- 87% of responding party/charter operators had reduced revenue.
  - Average reduction in revenue was 58%.

# The top three COVID-19 pandemic factors having the largest impact on the business were:

- Restrictions by state and local governments (56%).
- Lack of passengers (7%).
- Loss of crew (6%).



U.S. Secretary of Commerce Wilbur Ross

Acting Under Secretary of Commerce for Oceans and Atmosphere

Dr. Neil Jacobs

Assistant Administrator for Fisheries Chris Oliver

January 2021

www.fisheries.noaa.gov

OFFICIAL BUSINESS

National Marine Fisheries Service 1315 East-West Highway Silver Spring, MD 20910

#### **Endnotes**

- 1 Fisheries that take place exclusively in State waters, or nearly so, were excluded from Figure 2 because available data were incomplete.
  - 2 All for-hire data were based on Marine Recreational Information Program (MRIP) regions, which includes North Carolina in the South Atlantic region. For this reason, trends and impacts on the for-hire sector in North Carolina are reported in the Southeast Region section of this report.
    - 3 Source: Oxford Corona Virus Government Response Tracker (<a href="https://www.bsg.ox.ac.uk/research/">https://www.bsg.ox.ac.uk/research/</a> research-projects/coronavirus-government-response-tracker).

### **NOAA Fisheries Coronavirus (COVID-19) Update**

For more information, visit:

https://www.fisheries.noaa.gov/national/noaa-fisheries-coronavirus-covid-19-update



#### Mid-Atlantic Fishery Management Council

800 North State Street, Suite 201, Dover, DE 19901 Phone: 302-674-2331 | FAX: 302-674-5399 | www.mafmc.org Michael P. Luisi, Chairman | P. Weston Townsend, Vice Chairman Christopher M. Moore, Ph.D., Executive Director

#### MEMORANDUM

**Date:** January 19, 2021

**To:** Chris Moore

From: José Montañez, Jessica Coakley, Mary Sabo

**Subject:** Aquaculture Web Page

Council staff has developed a web page to provide information related to aquaculture activities in the Mid-Atlantic region. The new aquaculture page can be accessed at the following link: <a href="https://www.mafmc.org/aquaculture">https://www.mafmc.org/aquaculture</a>. From the Council's home page, you can navigate to the page by clicking "Ecosystem and Habitat" on the main menu and then clicking the "Aquaculture" link at the bottom of the list.



#### Aquaculture

**Aquaculture** is the breeding, rearing, and harvesting of animals and plants in all types of water environments.

Aquaculture supplies more than 50% of the seafood that is consumed worldwide, and that percentage is expected to rise as the world's population grows. In the United States, aquaculture only accounts for about 5% of seafood production, but there is an increasing interest in the potential for offshore aquaculture to complement wild-capture fisheries while supporting environmental, economic, and social sustainability and reducing the seafood trade deficit.



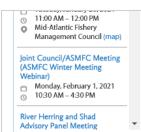
Source: NOAA Fisheries

The Mid-Atlantic Council has an interest in ensuring that Council-managed fisheries are not negatively affected by the development of aquaculture facilities. While the Council does not have regulatory authority over aquaculture permitting, development, or operation, the Council can provide input and guidance to developers and federal and state agencies to ensure that aquaculture facilities in the Mid-Atlantic are developed in a manner that is compatible with the protection of Council-managed species and their habitats, and with commercial and recreational fishing activities. The purpose of this web page is to provide information related to aquaculture activities in the Mid-Atlantic region.

## Background on Aquaculture Regulations and Permitting in the U.S. Northeast Region

The marine aquaculture permitting process is complex. Projects that are sited in U.S. waters must meet a number of federal, state, and local regulations that ensure environmental protection, water quality, and healthy oceans. Currently, no single federal agency is authorized to approve or permit offshore aquaculture facilities in federal waters. Most federal aquaculture activities and programs that are specific to aquaculture are carried out by the Department of the Interior, Department of Commerce, and the Department of Agriculture.

The NOAA Fisheries Office of Aquaculture focuses on regulatory, technical, and scientific services related to marine aquaculture. The program includes five regional aquaculture coordinators, who coordinate regulatory and permitting activities, serve as liaisons with the state and local government and stockholders, and assist with grant management. Information about aquaculture in the Mid-Atlantic and New England is available here.



#### QUICK LINKS

Council Meetings

Travel Guidelines

Statement of Organization Practices and Procedures (SOPP)

**Public Comment Deadlines** 

Offshore Wind Notices

2020-2024 Strategic Plan

**NEW: Recreational Fishing Data** 

More details on the state and federal permitting and authorization processes, applicable laws, species cultured, and potential interactions with managed fisheries species and habitat, can be found in the background documents linked below.

- CRS Report: U.S. Offshore Aquaculture Regulation and Development (10/10/19) provides an overview of the U.S. offshore aquaculture regulatory framework
- NEFMC Report on Aquaculture in the New England Region (November 4, 2020) to be posted
  - Supplement to the above describing: Mid-Atlantic Permitting/Authorization Process for States, Species Cultured, and Interactions between MAFMC Species and Aquaculture Activities - In Development

#### **Aquaculture Policies**

- · NOAA Aquaculture Policies
- · New England Fishery Management Council Aquaculture Policy
- · Mid-Atlantic Fishery Management Council Aquaculture Policy In Development

#### Offshore Activities in the Northeast Region

#### NOAA Fisheries Aquaculture Opportunity Areas

NOAA Fisheries is currently working to identify Aquaculture Opportunity Areas (AOAs). An AOA is a small, defined geographic area that shows high potential for commercial aquaculture. NOAA will use a combination of scientific analysis and public engagement to identify areas within the AOA that are environmentally, socially, and economically appropriate for commercial aquaculture.

- · AOA Frequently Asked Questions
- NEFMC Letter to NOAA on Aquaculture Opportunity Areas Request for Information 12/18/20

#### Manna Fish Farms

Manna Fish Farms, Inc. is seeking to develop a commercial aquaculture farm in federal waters approximately 9 miles off the coast of Long Island, New York. This aquaculture project intends to raise steelhead trout and possibly black sea bass in submerged net pens.

- Project Page
- · Materials from October 2020 Council Discussion:
  - o Staff Memo: Pre-application meeting for Manna Fish Farms proposal
  - o Additional Manna Fish Farms Information

#### Blue Water Fisheries

Blue Water Fisheries, LLC is seeking to develop a commercial aquaculture farm (Farm) to raise steelhead trout (Oncorhynchus mykiss) and lumpfish (Cyclopterus lumpus) in federal waters off the coast of New Hampshire.

- · Materials from December 2020 Council Meeting Discussion
  - o Staff Memo: Pre-application Meeting for Blue Water Fisheries Proposal
  - o Blue Water Fisheries Project Summary
  - o Blue Water Fisheries CASS Technical Report
- · NEFMC Letter to NOAA/GARFO on Blue Water Fisheries Aquaculture Project in Federal Waters off MA and NH - 12/22/20

#### Additional Resources

- · ASMFC Habitat Hotline: Marine Aquaculture Along the Atlantic Coast and Beyond (2019)
- · ASMFC Habitat Management Series #16: Aquaculture Effects on Fish Habitat Along the Atlantic Coast (May 2020)



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#### MEMORANDUM

**Date:** January 29, 2021

**To:** Chris Moore

From: Brandon Muffley and Mary Sabo

**Subject:** Stock Assessment Web Page Updates

Council staff recently updated the "Stock Assessments" page on the Council website (<a href="https://www.mafmc.org/stock-assessments">https://www.mafmc.org/stock-assessments</a>). The updates to the page focused on several objectives:

- Communicating general information to the public about the new stock assessment process, types of assessments, and public opportunities for participation;
- Highlighting relevant information about ongoing stock assessments for MAFMCmanaged species; and
- Providing a convenient single location for Council members and staff and interested stakeholders to find relevant assessment information, including links to the NRCC page, assessment process documents, upcoming meetings, working group information, SAW/SARC documents, the data portal, and other related pages on the NOAA Fisheries website.

Additionally, Council staff will be including more detailed information about stock assessment meetings on the calendar. Below are links to calendar pages for two upcoming meetings.

- Assessment Oversight Panel Meeting: June 2021 Management Track Assessments (February 25, 2021) <a href="https://www.mafmc.org/council-events/2021/aop-meeting-feb25">https://www.mafmc.org/council-events/2021/aop-meeting-feb25</a>.
- Peer Review Meeting: June 2021 Management Track Assessments (June 28 July 2, 2021) https://www.mafmc.org/council-events/2021/june2021-assessments-peer-review

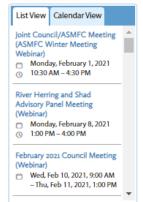


Stock Assessments

Northeast Trawl Advisory Panel (NTAP)

Q

#### UPCOMING EVENTS



#### SIGN UP FOR EMAIL UPDATES

#### **OUICK LINKS**

Council Meetings
Travel Guidelines
Statement of Organization
Practices and Procedures (SOPP)
Public Comment Deadlines
Offshore Wind Notices
2020-2024 Strategic Plan
Recreational Fishing Data
Stock Assessment Info

### Fishery Stock Assessments



**Quick Links** 

NOAA Fisheries Northeast Stock

Assessment Web Page

Description of New England and

Mid-Atlantic Region Stock

Assessment Process

5-Year Stock Assessment

Schedule

Stock assessments are a critical part of the fisheries management process. Fishery managers use stock assessments to understand the effects of fishing and other factors on the status of a fish stock, to evaluate the size of a fish stock, and to make predictions about how a fish stock will respond to current and future management measures. The information provided by stock assessments helps managers ensure sustainable fisheries, healthy ecosystems, and productive coastal communities.

#### **Stock Assessment Planning and Process**

Stock assessment planning is coordinated by the Northeast Regional

Coordinating Council (NRCC). The NRCC is comprised of leadership from the Atlantic States Marine Fisheries Commission (ASMFC), Greater Atlantic Regional Fisheries Office (GARFO), Mid-Atlantic Fishery Management Council (MAFMC), New England Fishery Management Council (NEFMC), and the Northeast Fisheries Science Center (NEFSC). The NRCC coordinates science and management activities and resources in the region, including setting stock assessment priorities and schedules.

A new and more collaborative fishery stock assessment process has been developed by the NRCC. Assessments are now scheduled years in advance to allow for better planning.

#### Types of Assessments

Management Track Assessments provide routine, scheduled, updated advice to directly inform management actions. These are designed to be simpler, quicker, more efficient, and more flexible than research track assessments. Management track assessments help ensure that stock status is updated on a regular and predictable basis.

Research Track Assessments may examine one or multiple stocks, or evaluate an issue or new model that could apply to many stocks. They are carried out over several years and can consider extensive changes in data, models, or stock structures. They may provide the basis for future management track assessments.

# MANAGEMENT TRACK STOCK ASSESSMENTS | Continued | Cont

# RESEARCH TRACK STOCK ASSESSMENTS WINGLESS SECTION IN ACCOUNT OF THE PROPERTY OF THE PROPERTY

### 2021 Assessments for MAFMC-Managed Species

2021 Management Track Assessments: Atlantic mackerel, black sea bass, bluefish, golden tilefish, scup, and summer flounder.

- February 25, 2021 Assessment Oversight Panel meeting
- · June 28 July 2, 2021 Management Track Peer Review meeting

2021 Research Track Assessments: Illex squid and butterfish

- Butterfish Working Group working group membership, upcoming meetings, and background information
- · Illex Working Group working group membership, upcoming meetings, and background information
- · November 2021 Research Track Peer Review meeting

All stock assessment meetings are open to the public. For a complete schedule of upcoming assessments, please see the 2021-2025 Stock Assessment Schedule. Additional information on future and past stock assessment related meetings is available on the NOAA Fisheries searchable events calendar.

Questions? Contact Michele Traver, Northeast Fisheries Science Center.

#### **Stock Assessment Roles and Responsibilities**

For more detailed descriptions, see the Stock Assessment Process document (p. 1-3).

- Northeast Fisherles Science Center (NEFSC) assessment scientists support both management and
  research track assessments. NEFSC assessment scientists have primary responsibility for planning and
  carrying out management track assessments for federally-managed stocks, and they collaborate with other
  scientists and experts on the working groups that carry out research track assessments.
- The Assessment Oversight Panel (AOP) is responsible for reviewing and approving management track
  assessment plans and recommending the appropriate level of peer review for each management track
  assessment. The AOP is composed of four members: a member of the Mid-Atlantic Council's Scientific and
  Statistical Committee (SSC), a member of the New England Council's SSC, a member of the ASMFC
  Assessment Science Committee, and the NEFSC Chief of the Populations Dynamics Branch.
- Stock Assessment Working Groups (WGs) are responsible for developing and implementing the research
  plan for research track stock assessments. WGs are composed of NEFSC assessment scientists, other NEFSC
  scientists, and other federal, state, academic and other non-governmental scientists or experts. The NEFSC
  periodically solicits applications for working group membership consideration. Information about future
  working group solicitations will be posted on this page.
- Peer Review Panels are convened to review certain management track assessments and all research track assessments. Peer review panels review the assessment(s) for technical merit and provide recommendations on whether the assessment should or should not be used for management.

#### Find a Stock Assessment

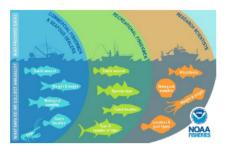
Completed Assessments: Visit the Stock Assessment Review Index (SARI) Search tool to find any final stock assessment documents, from 1985 to present, for a particular species.

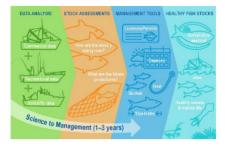
**Draft Assessment Documents:** Visit the Stock Assessment Support Information (SASINF) Search Tool to search for information related to recent assessments, from 2015 to present, that have not yet been finalized. Available information may include draft reports, figures, tables, models, maps, and presentations.

#### Learn More

To learn more about the basics of the fisheries stock assessment process, read the NOAA Fisheries Stock Assessments 101 series:

- · Data Required to Assess Fish Stocks
- · Stock Assessment Models
- More About Models
- Ecosystem Factors
- Future of Stock Assessments





Download Assessments Infographic





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# MEMORANDUM

**Date:** January 29, 2021

**To:** Chris Moore

From: Mary Sabo

**Subject:** Advisory Panel Reappointment Process

Council advisory panel (AP) members serve 3-year terms. On June 30, 2021, three-year terms for our current advisors appointed in 2018 will be complete. Advisors do not have term limits, but they must reapply to be considered for an additional term.

## <u>Timeline for 2021 Advisory Panel Reappointment Process:</u>

*Note: Dates below are tentative and subject to change.* 

March 15, 2021: Opening of advisory panel reappointment process. Council staff distribute a press release and email announcement and post information on the website and social media. Current advisory panel members will be notified that they must reapply to be considered for an additional term.

**April 21, 2021:** Closing date for applications. All applications will be reviewed by Council staff for completeness and compiled for review by Committees. FMP coordinators work with Committee Chairs to schedule webinar/conference call to review AP applications.

May 3-21, 2021: Committees will meet via webinar to develop a recommended applicant list which they expect to address the AP needs for representation. All viable applicants (and their applications), including any Committee recommendations, will be provided to the Executive Committee.

**June 8-10, 2021 (June Council Meeting)**: The Executive Committee will review applicants and Committee recommendations during a closed session and produce a recommended appointment list for each AP. These lists will include those qualified applicants that address the current need for representativeness for each AP. These appointed lists will be provided to the Council Chair for final review and consideration.

**June 18, 2021**: The Council Chair will make applicant selections for each AP from the Executive Committee appointment lists. Those selected applicant names will be sent to the Office of Law Enforcement for review. After full consideration, the Council Chair will appoint the members of the AP.

**June 25, 2021**: All applicants will be notified by email about whether they have been appointed. If not appointed, applicants will be informed that their application will be kept on file for future

consideration for interim appointments (if needed) for a limited time period of 3 years. The Council Chair has discretionary authority to fill a member position in the interim, if necessary.

July 1, 2021: New AP members begin new 3-year term.

## **Communication and Outreach Advisory Panel**

During this AP appointment process, the Council will solicit applicants for a new Communication and Outreach (C/O) Advisory Panel. Formation of this AP was identified as a priority in the Council's 2020-2024 Strategic Plan (see the excerpt behind this memo) and 2021 Implementation Plan. Staff proposes that the C/O AP report to the Executive Committee. The AP's primary purpose will be to provide advice and recommendations on effective strategies for achieving the Council's communication objectives.

# **Objectives:**

- Help identify effective communication tools and approaches for reaching Council stakeholders:
- Provide feedback on the content and delivery of Council communication and outreach products;
- Identify opportunities to increase public understanding and awareness of the Council and its managed fisheries;
- Inform the Council about topics of stakeholder interest or high priority communication needs; and
- Review and provide feedback on draft communication products (e.g. web pages or fact sheets), as needed;

Staff proposes that the C/O AP meet at least once a year for a general review and discussion of the Council's communication and outreach program. The AP may be engaged at other times throughout the year to provide feedback on specific communication tasks.

Similar to the Council's other APs, membership on the C/O AP should reflect the diverse interests of the Mid-Atlantic Council's stakeholders. Members may include commercial and recreational fishermen, for-hire operators, representatives from non-governmental organizations, scientists/academics, members of the general public, fishery managers, and communication/outreach professionals.

# **Theme 1: Communication**

**Goal:** Engage stakeholders and the public through education and outreach that foster sustained participation in, and awareness of, the Council process.

**Objective 1.** Use a wide range of communication tools and methods tailored to engage target audiences.

**Strategy 1.1:** Employ a variety of traditional, webbased, and social media tools to disseminate relevant information, updates, and communication materials.

**Strategy 1.2:** Upgrade the content and organization of the Council website to enhance usability for target audiences.

**Strategy 1.3:** Coordinate communication efforts with management partners and other organizations to expand the distribution of messages to a broader audience.

**Strategy 1.4:** Seek opportunities to expand media coverage of Council actions, managed fisheries, and opportunities for stakeholder participation.

**Strategy 1.5:** Expand the use of "interested-parties" email lists to deliver fishery- and action-specific information and updates to interested stakeholders.

**Strategy 1.6:** Maintain the online calendar of meetings and events with links to meeting materials and supplemental information.

**Strategy 1.7:** Establish a Communication/Outreach Advisory Panel to assist in the review and development of communication and outreach tools and approaches.

# **Objective 2.** Increase stakeholder participation in the Council process.

**Strategy 2.1:** Hold workshops to facilitate collaborative development of innovative management approaches among fishermen, managers, scientists, and other interested stakeholders.

**Strategy 2.2:** Develop outreach materials to facilitate constructive stakeholder input on proposed management actions (e.g. scoping guides, fact sheets, etc.).

**Strategy 2.3:** Expand the use of online comment forms to gather public input.

**Strategy 2.4:** Schedule, advertise, and conduct meetings and public hearings in a manner that encourages and enables stakeholder attendance and participation.

**Strategy 2.5:** Maintain action-specific web pages to inform stakeholders about opportunities to participate in the development of Council actions (e.g., FMPs, amendments, and frameworks).

**Strategy 2.6:** Utilize webinars, conference lines, and other technology to provide opportunities for remote access and participation.

#### **Objective 3.** Broaden the public's understanding and awareness of the Council and its managed fisheries.

**Strategy 3.1:** Develop and distribute general outreach and education materials to increase awareness and understanding of Council-managed fisheries and the Council process.

**Strategy 3.2:** Partner with external organizations to develop and promote workshops and other interactive educational opportunities for stakeholders.

**Strategy 3.3:** Collaborate with science and management partners and other academic or research institutions to develop outreach materials that explain fisheries science and data collection.

**Strategy 3.4:** Use plain language in Council documents to improve public understanding.



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# MEMORANDUM

**Date:** January 28, 2021

To: Council

From: Mary Sabo

**Subject:** MSA Reauthorization – Huffman/Case Discussion Draft

On December 18, 2020 Congressmen Jared Huffman and Ed Case released a discussion draft of a Magnuson-Stevens Act (MSA) reauthorization bill. If enacted, this bill would make numerous changes to the MSA. Attached for Council review is a one-page overview of the Huffman/Case MSA Reauthorization Draft. The full text of the discussion draft is available at: <a href="https://huffman.house.gov/imo/media/doc/MSA%20discussion%20draft\_12.18.20%20final.pdf">https://huffman.house.gov/imo/media/doc/MSA%20discussion%20draft\_12.18.20%20final.pdf</a>.

The Mid-Atlantic Council has not been asked to provide written comments on this draft bill, and no Council action is needed at this time. The councils are prohibited from lobbying, but if requested, the councils can provide input on how they would be affected by the proposed legislation.

# THE MAGNUSON-STEVENS ACT REAUTHORIZATION DRAFT

The Magnuson-Stevens Fishery Conservation and Management Act (MSA) is the country's primary statute governing fisheries management in federal waters and has made the United States a world leader in sustainable fisheries. Despite the strengths of the MSA, it was last reauthorized in 2006 and updates are needed to address the many new challenges facing fisheries management and science in an era of climate change, new technologies, and changing ocean use. This reauthorization has taken a stakeholder-driven, science-based approach to provide important and timely updates to the MSA. The viewpoints and proposals heard during discussions, listening sessions, and public comments have resulted in a comprehensive discussion draft. In addition, several bipartisan bills introduced during the 116th Congress are included in whole or in part. These amendments to the MSA, along with provisions to support coastal communities and fishing businesses, are intended to address the changing needs in fisheries management and science to ensure the MSA meets the needs of stakeholders now and into the future.

**Title I. Climate-ready fisheries:** Requires consideration of climate change and climate science in regional fishery management council priorities and planning and provides new tools and approaches to address shifting stocks and other climate impacts on fisheries management. Tackling climate change is crucial as oceans and fisheries are facing some of the largest impacts due to ocean warming, acidification, and other climate stressors.

**Title II. Supporting fishing communities:** Addresses the needs of fishermen, businesses, and coastal communities through an improved disaster relief program, creates a working waterfront grant program, and increases support for seafood marketing. This title also acknowledges the importance of subsistence fishing and how it is defined under the MSA.

**Title III. Strengthening public process and transparency:** Increases representation of different viewpoints on regional fishery management councils and improves transparency, accountability, and stakeholder participation in fisheries management. This title expands coverage of NOAA's sexual assault and sexual harassment policies, including for fishery observers and Council staff.

**Title IV. Modernizing fisheries science and data:** Expands electronic technologies and data management systems, updates cooperative research and management, and improves data collection and methods. This title requires NOAA to develop operating plans for emergencies that make it impractical to use human observers and conduct stock assessments, as occurred during the Covid-19 pandemic.

**Title V. Sustaining fisheries through healthy ecosystems and improved management:**Strengthens essential fish habitat consultation, builds on MSA conservation standards to improve outcomes for overfishing and rebuilding, conserves forage fish, and requires descending devices for recreational fishing in the Gulf of Mexico. This title also replaces the term "overfished" with "depleted" to encompass the complexity of threats to fish stocks.



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# MEMORANDUM

**Date:** January 29, 2021

To: Council

**From:** Chris Moore

**Subject:** Statement of Organization Practices and Procedures

Enclosed is an excerpt from the Council's Statement of Organization Practices and Procedures (SOPP) with several proposed revisions for Council consideration. The Council will review these changes during the Executive Director's Report (Thursday, February 11, 2021) at the upcoming Council meeting. The complete redline version of the revised SOPP is available on the February 2021 Council Meeting page. A summary of the proposed changes is below.

- **4.5.6 Parental Leave** The proposed edits would increase the amount of paid parental leave from six weeks to twelve weeks. This aligns with the paid parental leave policy implemented for federal employees in October 2020. Additional minor edits to this section clarify that the paid parental leave counts toward the 12 weeks of leave available under the Family Medical Leave Act.
- **4.5.8.1 Post-Severance Payment for Unused Leave** The proposed edits in this section would modify the procedure for post-severance payment for unused leave upon retirement. This change would allow retirees to receive payment for unused leave as a lump sum or in annual installments over up to five years.
- **4.6.1.2 Retiree Health Coverage** The proposed edits in this section would modify the Medicare supplement insurance plan options available to retirees and retiree spouses. This revision is necessary to account for the phaseout of Medicare Supplement Insurance Plan F in 2020.

- reason for the absence. In the case of an absence of more than three (3) consecutive days, a medical practitioner's certificate may be required as a condition of approval.
- (f) In meritorious cases, the Council may advance up to one year's earnings of sick or annual leave when it is reasonably expected that the advanced leave will be repaid by the employee. This must be approved by the Council Chair or an individual to whom the Chair has designated this authority in writing.

#### 4.5.3 Paid Holidays

Paid holidays shall be official Federal holidays plus one holiday designated by the Executive Director.

#### 4.5.4 Administrative Leave

The Executive Director may grant any employee administrative leave for jury duty (no limit); inclement weather (at the discretion of the Executive Director); military duty (not to exceed 15 days each calendar year); military induction examination; and blood donation (up to 4 hours); and for such other reasons as the Executive Director may designate.

#### 4.5.5 Personal Leave

Upon a permanent employee's written request, the Executive Director may approve a leave without pay, not to exceed three (3) months. Such leave may be renewed for an additional period not to exceed three (3) months by formal action of the Executive Director and written approval by the Chair of the Council.

#### 4.5.6 Parental Leave

- (a) The Council provides <u>six\_twelve</u> weeks of paid parental leave to an eligible employee (as described below) following the birth of the employee's child or the placement of a child with the employee in connection with the employee's adoption of the child or the employee's foster care for the child. The purpose of paid parental leave is to enable the employee to care for and bond with a newborn or a newly adopted or newly placed child.
- (b) To be eligible for paid parental leave, an employee must be a full-time employee and must have been employed by the Council for at least 12 months.
- (c) Paid parental leave is compensated at the employee's regular pay.
- (d) After paid parental leave is exhausted, an employee may (within the limits described below) take additional leave charged against the employee's accumulated sick or annual leave credits. The employee also may take leave without pay to extend parental leave. An employee need not exhaust accumulated annual and sick leave credits before taking unpaid parental leave.
- (e) An employee may use a combination of paid parental leave, annual leave, sick leave, and unpaid leave for a period not to exceed 14 weeks following the birth, adoption, or placement of a child with the employee. (The Council may grant a leave to begin prior to the child's birth if the Council finds such a leave is medically necessary for the birth mother.)
- (f) An employee may take an approved parental leave at any time during the six-month period immediately following the birth, adoption, or placement of a child with the employee.
- (g) As stated in section 4.5.2(f), in meritorious cases, the Council may advance up to one year's earnings of sick or annual leave. An employee may use advanced leave as described in paragraph (4) above.
- (h) A parental leave taken under this policy runs concurrently with will be counted toward the 12 weeks of leave available under the Family and Medical Leave Act (FMLA), if any, as described in section 4.5.7.

- (i) Nothing in this policy supersedes or changes the provisions of any employee-benefit plan or fringe benefit. If the provisions for a plan or benefit are ambiguous, the Council may resolve an ambiguity by treating a parental leave similarly to another leave, such as an annual leave or sick leave.
- (j) Nothing in this policy can increase an employee's credit for unused annual-leave days or unused sick days. A post-severance payment for unused leave is not provided regarding unused personal leave, family-and-medical leave, parental-absence leave, or other leave.

#### 4.5.7 Family and Medical Leave

Full-time employees of the Council shall be entitled to family leave in accordance with the U.S. Department of Labor Family and Medical Leave Act (FMLA) 29 CFR Part 825. Employees are eligible to receive up to a total of 12 workweeks of unpaid leave during any 12 month period for one or more of the following reasons:

- (a) For the birth and care of the newborn child of the employee;
- (b) For placement with the employee of a son or daughter for adoption or foster care;
- (c) To care for an immediate family member (spouse, child, parent) with a serious health condition; or
- (d) To take medical leave when the employee is unable to work because of a serious health condition.

# 4.5.8 Post-Severance Payment for Unused Leave

When a salaried full-time employee of the Council permanently severs from employment, he or she is, or may become, entitled to a payment for unused leave as stated below.

#### 4.5.8.1 Retirees

- (a) If a full-time employee of the Council has completed at least 20 years of service or attains age 60 and permanently severs from employment, he or she is entitled to receive payment for unused annual leave days and unused sick days credited under the Council's practices and procedures that remained credited as of the Eligible Retiree's severance from employment. There is no payment regarding unused family-and-medical leave, parental-absence leave, or other leave.
- (b) The amount to be paid is equal to the number of credited unused days described above multiplied by a daily wage rate. That rate is the Eligible Retiree's highest salary that was in effect at least 90 days before his or her retirement divided by 260.
- (c) Upon retirement, an Eligible Retiree may choose to receive payment for unused leave as either a lump sum payment or as annual installments over a period of up to five years. Beginning with the calendar year that next begins after the Eligible Retiree's severance-from-employment date, the Council shall pay the payment amount in annual installments over up to five years. Each year's installment is the lesser of the remaining payment amount or \$25,000. If, after four years' installments of \$25,000 each year, the remaining payment is more than \$25,000, the fifth installment is the whole remaining payment amount so that payments are completed in no more than five installments.
- (d) If the Eligible Retiree dies before full payment is made, the Council shall pay the duly appointed and currently serving personal representative of the Eligible Retiree's estate.

#### 4.5.8.2 Non-Retirees

(a) If a full-time employee of the Council permanently severs from employment before attaining eligibility for retirement, he or she is entitled to receive a lump sum payment for unused

- annual leave upon separation. There is no payment regarding sick leave, unused family and medical leave, parental-absence leave, or other leave.
- (b) Payment for unused annual leave shall not exceed 30 days plus current year earnings. Employees authorized to carry over 40 days of unused leave are entitled to receive lump sum reimbursements not to exceed 40 days carryover plus current year earnings of unused leave.
- (c) The payment amount for unused leave is calculated by multiplying the number of unused annual leave days by a daily wage rate. That rate is the employee's highest salary that was in effect at least 90 days before the end of his or her employment divided by 260.
- (d) In the case of the death of an employee, the employee's estate shall be paid in cash for any accumulated annual leave.

#### 4.5.9 Leave and Retiree Health Insurance Accounts

Accounts shall be maintained to pay for unused sick or annual leave and retiree health benefits as authorized. The accounts will be funded from the Council's annual operating allowances. Funds will be deposited into these accounts each year based on an actuarial report of future insurance needs for retirees and the availability of funds. Interest earned on this account will be maintained in the account, along with the principal, for the purpose of payment of unused annual and sick leave only. This account, including interest, may be carried over from year to year. Budgeting for accrued leave will be identified in the ``Other'' object class categories section of the SF-424A.

# 4.6 Employee Benefits

#### 4.6.1 Health Insurance

#### 4.6.1.1 Employee Health Insurance

- (a) The Council will pay the basic rate for the employee and his family under the plan chosen, including the blood bank.
- (b) Surviving spouses of employees will be considered eligible to participate in group health benefits at their own expense and at no cost to the Council for a period of up to one year.

#### 4.6.1.2 Retiree Health Coverage

- (a) If a full-time Employee of the Council has completed at least 20 years of service or attains age 60 and permanently severs from employment [an "Eligible Retiree"], he or she is, or may become, entitled to health insurance coverage as stated below ["Retiree Health Coverage"].
- (b) This Plan does not cover any active employee. This Plan is separate from every plan that covers or could cover an active employee.
- (c) Retiree Health Coverage may include the Eligible Retiree and his or her spouse. Retiree Health Coverage does not include a dependent who is not the Eligible Retiree's spouse.
- (d) Retiree Health Coverage meets 75% of the premium cost of the coverage provided under this Plan. Any coverage otherwise provided by this Plan is not provided if the Eligible Retiree has not paid his or her portion of the premium cost for the coverage.
- (e) For an Eligible Retiree who attained age 60 on or before his or her retirement, his or her Retiree Health Coverage begins with the first month for which the Retiree is no longer covered as an employee. For an Eligible Retiree who had not attained age 60 on or before his or her retirement, Retiree Health Coverage begins with the first month that begins after the Retiree attains age 60.
- (f) If an Eligible Retiree's coverage has begun under the preceding paragraph, Retiree Health Coverage for his or her spouse begins with the first month that begins after the spouse attains age 60.

- (g) Retiree Health Coverage for a Retiree ends with (the earliest of): (1) the Retiree's death, (2) age 65, (3) eligibility for Medicare, or (4) eligibility for Medicaid. However, for a Retiree covered by Medicare who is not covered by Medicaid, Retiree Health Coverage is 75% of the premium cost of Medicare Supplement Insurance Part D and either Plan F or G.
- (h) Retiree Health Coverage for a Retiree's spouse ends with (the earliest of) (1) the Spouse's death, (2) attainment of age 65, (3) eligibility for Medicare, (4) eligibility for Medicaid, or (5) the Retiree's death. However, for a Retiree's spouse covered by Medicare who is not covered by Medicaid, Retiree Health Coverage (if it has not ended under the preceding sentence) is 75% of the premium cost of Medicare Supplement Insurance Part D and either Plan F or G.

#### 4.6.2 Life Insurance

The Council will pay for employee life insurance coverage at the rate of one times salary, with a minimum coverage of \$50,000.

#### 4.6.3 Retirement

- (a) The Council will pay a base of ten (10) percent of an employee's salary into a deferred compensation plan.
- (b) Depending on availability of funding, the Council will contribute an additional match of up to four (4) percent beginning January 1, 2012.
- (c) Vesting will be 100 percent. In the case of the death or disability of an employee, the employee or the employee's estate or beneficiary shall be paid in cash for 100% of the employee's deferred compensation plan.

#### 4.6.4 Long Term Disability Insurance

The staff is eligible for coverage by a disability plan similar to that provided by the Federal Government to its employees.

# 4.7 Experts and Consultants

- (a) As long as funding is available in the Council's budget, the Executive Director may, in consultation with the Council Chair, contract with experts and consultants as needed to provide technical assistance not available from NOAA at a rate that does not exceed the first step of GS 15 plus travel.
- (b) A Council must notify the NOAA Office of General Counsel before seeking outside legal advice, which may only be for technical assistance not available from NOAA. If the Council is seeking legal services in connection with an employment practices question, the Council must first notify the Department of Commerce's Office of the Assistant General Counsel for Administration, Employment and Labor Law Division. A Council may not contract for the provision of legal services on a continuing basis.

# New England Fishery Management Council Meeting Agenda Tuesday – Thursday, January 26-28, 2021

**By Webinar** 

Sending comments? Written comments must be received at the NEFMC office no later than 8:00 a.m., Thursday, January 21, 2021 to be considered at this meeting. Please address comments to Council Chairman Dr. John Quinn or Executive Director Tom Nies at: NEFMC, 50 Water St., Mill 2, Newburyport, MA 01950. Email submissions should be sent to <a href="mailto:comments@nefmc.org">comments@nefmc.org</a>.

**IMPORTANT:** Due to ongoing federal and state travel restrictions and public safety guidelines related to <u>COVID-19</u>, this meeting will be conducted by webinar. Please continue to monitor the Council's <u>January 2021 meeting webpage</u>.

**PUBLIC COMMENTS:** The Council's "Guidelines for Providing Public Comments" can be found <a href="https://example.com/here">here</a>. Anyone interested in speaking during the open period for public comment on January 26, 2021 at 1:30 p.m. should email Janice Plante at <a href="mailto:jplante@nefmc.org">jplante@nefmc.org</a> to get on the list.

#### Tuesday, January 26, 2021

#### **9:00 a.m.** Groundfish Committee Meeting (Terry Alexander)

The Council's Groundfish Committee will meet to: (1) receive the Groundfish Advisory Panel report; (2) discuss and vote on the last component of Framework Adjustment 61 – a proposed universal sector exemption to allow fishing for redfish; (3) receive the Recreational Advisory Panel report; (4) discuss and develop recommendations on fishing year 2021 recreational measures for Gulf of Maine cod and Gulf of Maine haddock; (5) receive a summary of public feedback on developing a strawman proposal for a potential limited entry program for party/charter vessels in the recreational groundfish fishery, discuss the proposal and next steps; (6) receive an update on work to revise acceptable biological catch (ABC) control rules for groundfish stocks; (7) receive an update on Cod Stock Structure Working Groups; and (8) discuss other business as needed

#### 12:30 p.m. Lunch Break

- 1:30 Groundfish Committee Meeting Continued (Terry Alexander)
- **4:00 NEFMC January 2021 Meeting Convenes, Introductions and Announcements** (Chairman Dr. John Quinn) The Council meeting will begin immediately following the conclusion of the Groundfish Committee meeting
- **4:10** Groundfish Committee Report (Terry Alexander)

Framework Adjustment 61: final action on universal sector exemption to allow fishing for redfish, vote to submit framework to NMFS; Council action on other issues resulting from Groundfish Committee recommendations for items listed above

#### Wednesday, January 27, 2021

#### 9:00 a.m. Reports on Recent Activities

Council Chairman, Council Executive Director, Greater Atlantic Regional Fisheries Office (GARFO) Regional Administrator, National Oceanic and Atmospheric Administration (NOAA) General Counsel, Northeast Fisheries Science Center (NEFSC), Mid-Atlantic Fishery Management Council (MAFMC), Atlantic States Marine Fisheries Commission, U.S. Coast Guard, NOAA Enforcement, and National Marine Fisheries Service (NMFS/NOAA Fisheries) Highly Migratory Species Advisory Panel

#### 10:30 Scallop Committee Report (Vincent Balzano)

Framework Adjustment 33: overview of 2020 Gulf of Maine surveys, final action on 2021 fishery specifications, 2022 default specifications, measures to mitigate impacts on Georges Bank yellowtail flounder and northern windowpane flounder, plus other measures; Scallop Priorities: possible discussion on adding listening or scoping sessions for a limited access leasing program to 2021 priorities with consideration of deleting a previously approved priority in exchange

#### 12:30 p.m. Lunch Break

#### 1:30 Ecosystem-Based Fishery Management (John Pappalardo)

Brief progress report on steps needed to conduct informational workshops using public outreach materials, focusing on potential application to a Georges Bank example Fishery Ecosystem Plan (eFEP)

- 2:00 NEFSC Northeast Fishery Monitoring and Research Division (Amanda McCarty, NEFSC division chief)
  Report on Northeast Fishery Monitoring and Research Division: (1) current division organization; (2) status of ongoing responsibilities; (3) at-sea monitoring and observer program activities, funding status, and impacts due to COVID-19; and (4) cooperative research update
- 3:45 NEFSC Cost Survey for Commercial Fishing Businesses (Dr. Tammy Murphy, NEFSC)
  Presentation on Northeast Fisheries Science Center's cost survey for commercial fishing businesses, including: (1) overview of survey methods and data collected to date; (2) discussion on challenges and opportunities; and (3) efforts to solicit industry feedback while planning for next cost survey
- 4:30 Northeast Trawl Advisory Panel (NTAP) (Terry Alexander)
  Report on January 14, 2021 meeting of the Northeast Trawl Advisory Panel

#### Thursday, January 28, 2021

- 9:00 a.m. Index-Based Methods and Control Rules 2020 Research Track Assessment: (Dr. Chris Legault, NEFSC)
  Report on peer reviewed results of Index-Based Methods and Control Rules 2020 Research Track Assessment
- 9:45 Small-Mesh Multispecies (Whiting) Committee Report (Rick Bellavance)
  2021-2023 Specifications: final action; Priorities: potentially discuss adding a 2021 whiting priority to (1)
  analyze factors for why the northern whiting fishery is not achieving optimum yield (OY), and (2) recommend
  measures to allow greater resource utilization, plus consider deleting a previously approved priority in
  exchange
- 10:45 Open Period for Public Comment
  Opportunity for the public to provide brief comments on issues relevant to Council business but not listed on this agenda (please limit remarks to 3-5 minutes)
- 11:00 Habitat Report (Eric Reid)
  Update on offshore energy development and ongoing/future habitat-related work and priorities
- 11:30 North Atlantic Right Whales (Colleen Coogan, GARFO)
  Presentation on: (1) Atlantic Large Whale Take Reduction Plan Draft Environmental Impact Statement (DEIS) and proposed rule, and (2) Draft Batched Biological Opinion covering 10 fisheries; Council discussion and comments
- 12:45 p.m. Other Business

Approve draft letter to NMFS supporting investigation of using vessel monitoring system (VMS) notifications rather than Federal Register notices to announce area closures for Atlantic herring fishery; and other business as needed

1:00 Closed Session (Chairman Dr. John Quinn)
Council discussion in closed session on 2021-2023 appointments to the Scientific and Statistical Committee

Times listed next to the agenda items are estimates and are subject to change.

This meeting is being held entirely by webinar. Council member financial disclosure forms are available for examination on the Council website.

Although other non-emergency issues not contained on this agenda may come before this Council for discussion, those issues may not be the subject of formal action during this meeting. Council action will be restricted to those issues specifically listed in this notice and any issues arising after publication of this notice that require emergency action under section 305 (c) of the Magnuson-Stevens Act, provided the public has been notified of the Council's intent to take final action to address the emergency.

Documents pertaining to Council actions are available for review prior to a final vote by the Council.

Please check the Council's website, <a href="www.nefmc.org">www.nefmc.org</a>, or call (978) 465-0492 for copies.

This meeting will be recorded. Consistent with 16 USC 1852, a copy of the recording is available upon request.

# East Coast Shifting Stocks: Who Manages What? Captain Anthony (Tony) DiLernia, New York At Large Member of the Mid-Atlantic Fishery Management Council

One of the guiding principles of the Fisheries Management and Conservation Act of 1976, later to become the Magnusson/Stevens Act, was that fishermen would be involved in the management of the species off of their coasts. Each of the eight regional fishery management councils was assigned species to manage based on the distribution of the stocks in 1977. Many stocks have shifted since then.

In 1977, black sea bass were abundant in the waters of Virginia to New York. They were rarely seen in the waters of Southern New England. Today, black sea bass are more abundant than cod in Connecticut, Rhode Island and Massachusetts waters. Research also has demonstrated a two hundred and fifty-mile northeastern shift of the center of the summer flounder stock and scup.

These species—which were always found in Southern New England in limited quantity—have essentially abandoned the waters of Virginia and Maryland, and are now concentrated in the region of New Jersey to Massachusetts. Yet, the fishermen of Connecticut, Rhode Island and Massachusetts are not included when the final fishery management recommendations for these species are transmitted to the U.S. Secretary of Commerce for implementation. True, the New England Fishery Management Council liaison is permitted to represent the Southern New England region at meetings of the Mid-Atlantic Fishery Management Council and meetings of the Demersal Committee. However, that same liaison is not permitted to vote in full Council when the final recommendations are transmitted to the Secretary of Commerce. It is for this reason that, in recent years, Rhode Island has requested to be added to Mid-Atlantic Fishery Management Council.

Other stocks have a southern distribution. Virginia and New Jersey have significant scallop fisheries. Yet neither state, as a member of the Mid-Atlantic Council, can vote on the final recommendations of scallop fishery—it is the New England Council that has been assigned scallops. The Mid-Atlantic Council has voting representation on the New England scallop committee, but when final scallop recommendations to the Secretary of Commerce are decided members of the Mid-Atlantic Council are not permitted to vote, just as the New England representatives on the Mid-Atlantic Demersal committee cannot vote on the final recommendations.

Shifting stocks are creating situations where fishermen are not involved in the final recommendations of the fisheries off of their shores. Fisheries management has not been adaptive to changes in stock abundance and distribution.

How to solve this dilemma without adding more states to each of the regional councils?

One solution would be to change the voting structure for the final recommendations of each species. For example, when the Mid-Atlantic Council meets to manage black seabass, summer flounder or scup, the members of the New England Council representing the states of Connecticut, Rhode Island and Massachusetts could be included in all discussions and votes. The same process could be applied to the scallop fishery. The fishery would continue to be managed by the New England Council but all discussions, debate and final recommendations would include the states of New Jersey and Virginia.

Should this process be adopted it could also be applied to the monkfish and spiny dogfish plans. The joint plans could be eliminated and each Council would administer one of the plans, as they do now; New England would continue to manage monkfish and the Mid-Atlantic would continue to manage spiny dogfish. The only change would be that the final monkfish actions at the New England Council would include the Council members from the states with an active monkfish fishery, such as New York and New Jersey. The final spiny dogfish actions at the Mid-Atlantic council would include those New England states with active dogfish fisheries, currently Rhode Island and Massachusetts.

The costs associated with members attending meetings outside of their Council region would be assumed by the Council to which the members are assigned; the same as the current process associated with liaisons attending meetings of their neighboring Councils.

For this process to occur the current language in the Magnusson/Stevens Act would have to be changed; how?

Section 302 of the Magnusson/Stevens Act (16 U.S.C. § 1852) defines voting members of a Council as: 1) the principal state official for marine fishery management in each constituent state of the Council, 2) the National Marine Fisheries Service Regional Administrator or designee, and 3) members required to be appointed by Secretary of Commerce. Language would have to be added to the Act stating that for actions regarding a particular species, the Secretary would have the ability to add a state or states with an active fishery for that species to the Council managing that species for decisions regarding management actions. Criteria for a state to be assigned voting rights on a second Council would have to be established, and the assignment of a particular state to a second Council would have to be reviewed every five to ten years.

This change would preserve each of the individual Councils' autonomy and at the same time allow fishermen to have the ability to manage the fishery that occurs offshore of their state. As stocks continue to shift their ranges changes must be made to allow effected fishermen to participate in the management process.