ISSUES& REPORTS

DOCUMENTS ARE FORTHCOMING





Reclassification of Jurisdictional Waters

Potential Science-Based Approach

NCDEQ, DIVISION OF MARINE FISHERIES

WRC/MFC Joint Committee on Delineation of Water Boundaries May 1, 2019



Objectives

- Describe science-based approach to determine the transition between Coastal and Inland Fishing Waters.
- Agency staff asked by JCDFW to collaborate to provide information for a more "robust discussion" of the issue
- Consider biological and statutory factors, as well as timeline:
 - Define estuary from peer reviewed literature
 - Describe species use of estuarine salinity zones
 - Describe salinity zones based on fish assemblage techniques using NC fish data
 - Show salinity maps for two of four CHPP regions
- Identify specific estuarine waters of concern not conforming to statute.

Statutory Definitions

G.S. 113-129 (4) Coastal Fishing Waters -

The Atlantic Ocean; the various coastal sounds; and estuarine waters up to the dividing line between coastal fishing waters and inland fishing waters agreed upon by the MFC and the WRC.

G.S. 113-129 (9) Inland Fishing Waters. –

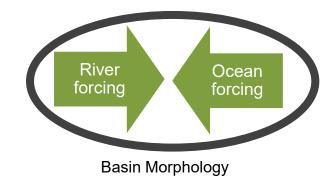
All inland waters except private ponds; and all waters connecting with or tributary to coastal sounds or the ocean extending inland or upstream from the dividing line between coastal fishing waters and inland fishing waters agreed upon by the Marine Fisheries Commission and the Wildlife Resources Commission.

G.S. 113-129 (10a) – Joint Fishing Waters -

Those coastal fishing waters in which are found a significant number of freshwater fish, as agreed upon by the Marine Fisheries Commission and the Wildlife Resources Commission in accordance with G.S. 113-132 (e).

Upper Limit of Estuary

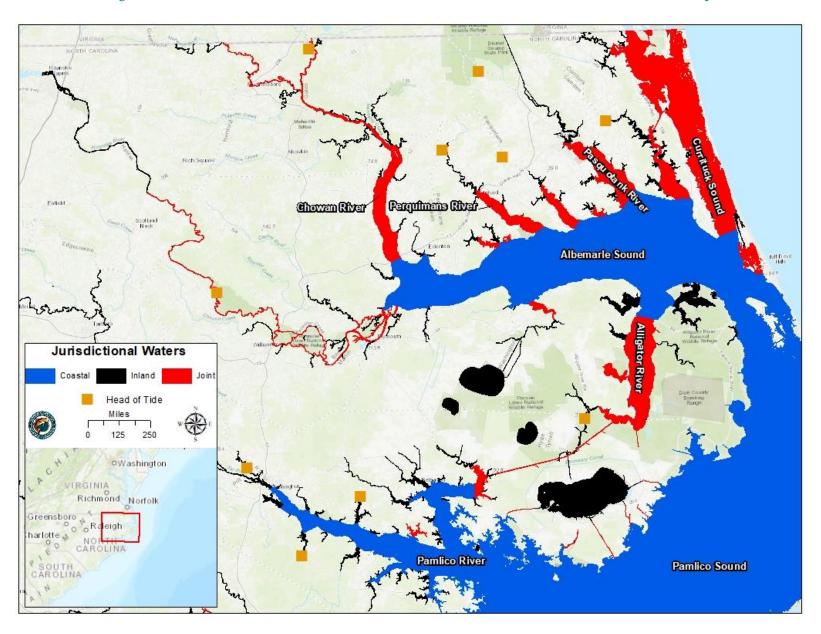
 Upper limit of salinity intrusion under average tidal and river flow conditions = Head of Tide



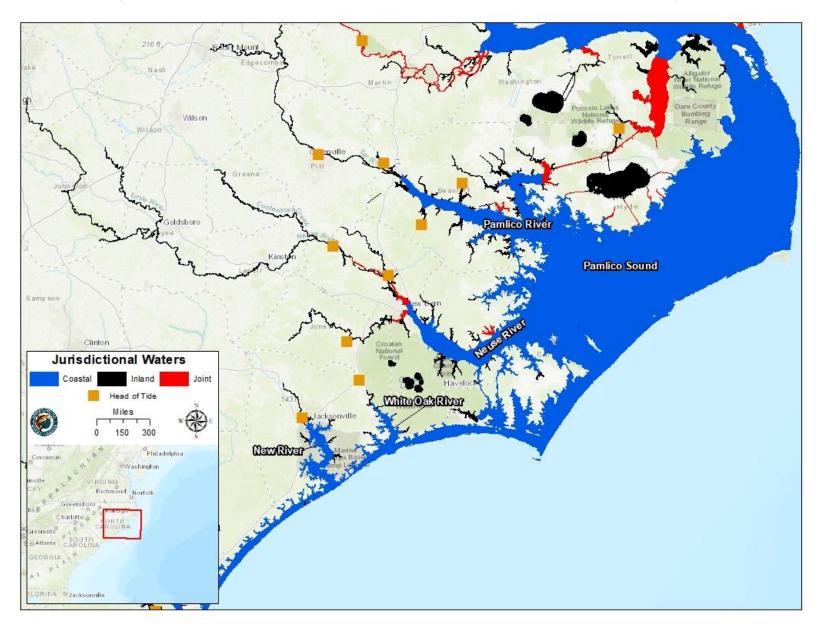
Head of Tide

- Inland or upstream limit of water affected by the tide
- Determined by limited tidal range (< 0.2 ft), changes in flow, geomorphology, wetland vegetation, and salinity < 0.5 ppt (NOAA; Dusterhoff et al. 2014; Ensign et al. 2013)
- Used by several states as dividing line between inland and coastal fishing waters – MD, VA, DE
- Other states use highways that align with Head of Tide or tidewater physiographic boundaries – SC, GA, CT

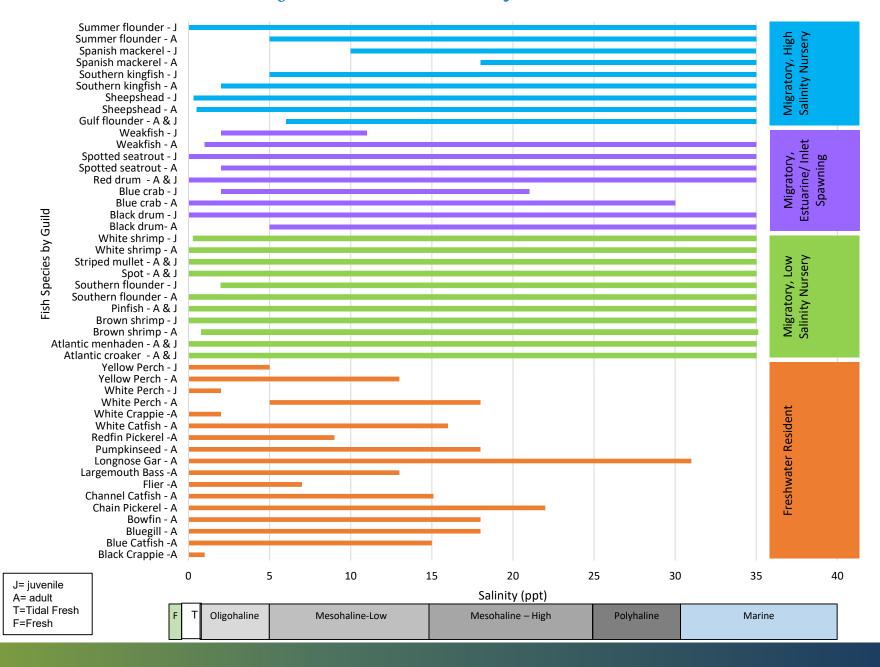
Head of Tide in North Carolina – Albemarle System



Head of Tide in North Carolina – Pamlico System



Use of Fish Salinity Tolerances



Use of Biologically Based Salinity Zones

Relates fish assemblages to salinity or other conditions

Bulger et al. 1993

- Example of how to classify an estuary by salinity zones using fish data from that estuary and statistical analysis
- Defined five overlapping salinity zones:
 0-4 ppt; 2-15 ppt; 11-19 ppt; 15-28 ppt; 23-35+ ppt
- Based on data from Chesapeake and Delaware bays
- Bulger <u>method</u> has been used in other estuaries and resulted in different salinity zones:

Gulf of Mexico- 0-8 ppt; Tampa Bay- 0.1-1 ppt; St. John's River, Flno clear zones except 0.1-1 ppt

(Christensen et al. 1997; Greenwood 2007; Guenther and MacDonald 2012)

Use of Biologically Based Salinity Zones

- Salinity ranges used by fish species vary across estuaries (Christensen et al. 1997)
- Availability of preferred salinity habitat had larger influence on salinity used by fish than temporal distribution (will stay in preferred salinity when available, move to edge of salinity range if not available)
- The Bulger method did not accurately reflect the community structure or distinct salinity zones in some cases

Conclusion

Biologically based salinity zones identified in Bulger are specific to those waters and should not be applied to other systems. (M. Nelson pers. comm., Taupp and Wetzel 2014; Bulger et al. 1993)

Fish Community Assessment

Multivariate Regression Trees (MRTs)

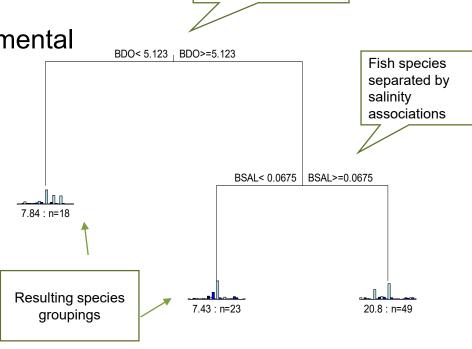
 What environmental variables influence the relative abundance of observed species?

Groups species based on environmental

thresholds

Indicator Species Analysis

- Builds on Regression Tree
- Identifies species significantly associated with the splits in the tree
- Indicator species can be used to predict or assess the environmental conditions at a given site



Fish species separated by

Biological Oxygen
Demand associations

Error: 0.835 CV Error: 0.959 SE: 0.0548

Fish Community Assessment – Data Used

NCDMF Program 100

- 2015 year of average flow conditions
- Seine and trawl data

SURVEY GOALS

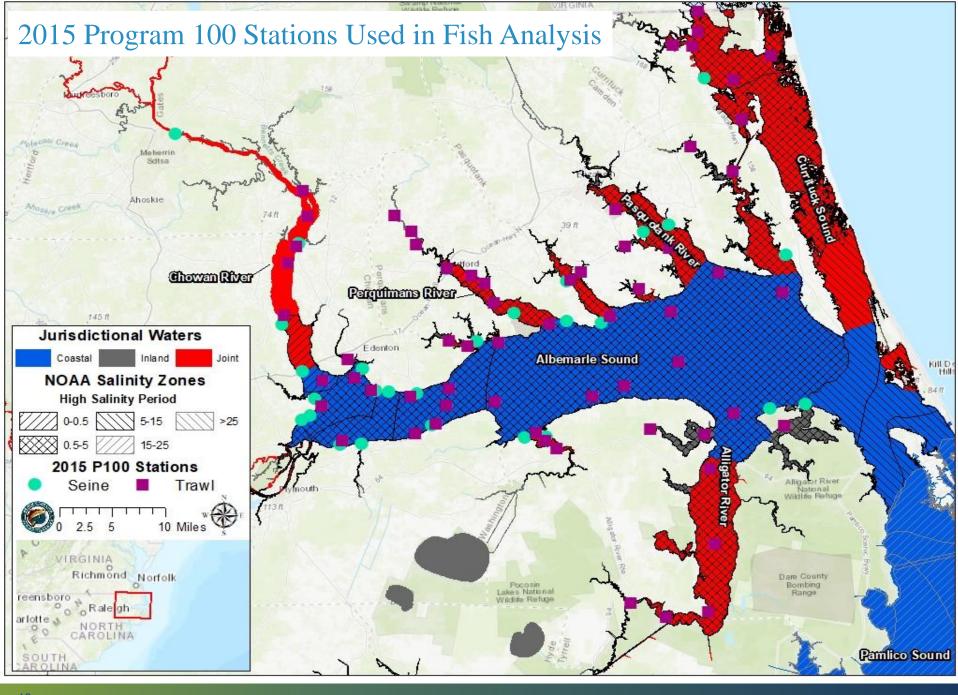
1. To determine relative abundance, growth, and distribution of juvenile (young-of-year) alosine fishes and Striped Bass (Morone saxatilis) in the Albemarle Sound and tributaries.

SURVEY DESIGN

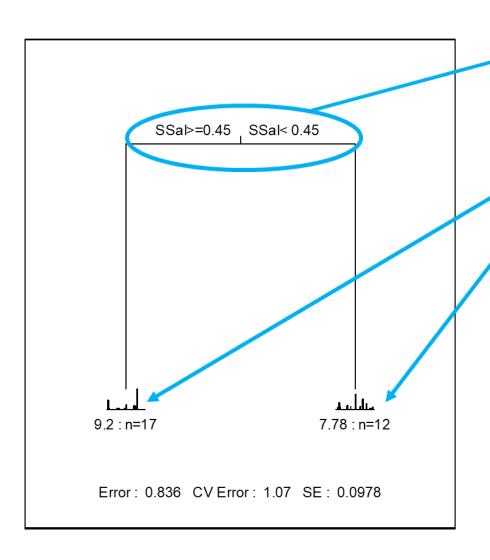
- 1. Beach seine survey, 9 fixed stations, western Albemarle Sound, 1993present, samples for six weeks, Jun-Jul
- 2. Hassler trawls; 7 fixed stations, western Albemarle Sound, 1955-present, samples bi-weekly for eight weeks, 3rd week of Jul-Oct
- 3. Central Albemarle Sound trawls, 12 fixed stations, bi-weekly for seven weeks, 1984-present, 4th week of Jul-Oct

VARIABLES RECORDED

- Water quality parameters temperature, salinity, DO
- Biological data Fork length (mm), total length (mm), and weight (0.1 grams)



P100 Seine Results

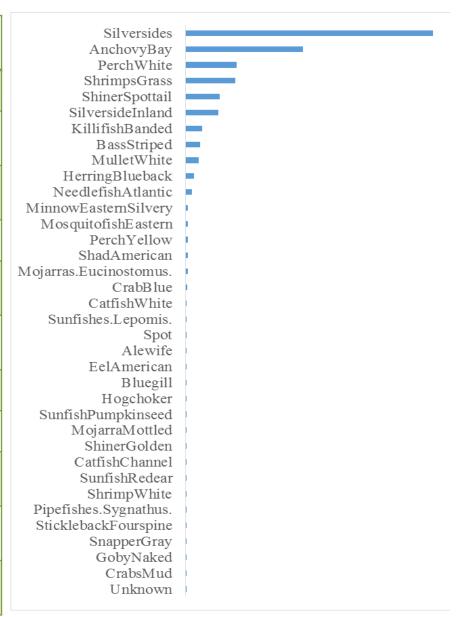


Major predictor variable and cut-off value

Species composition of each leaf

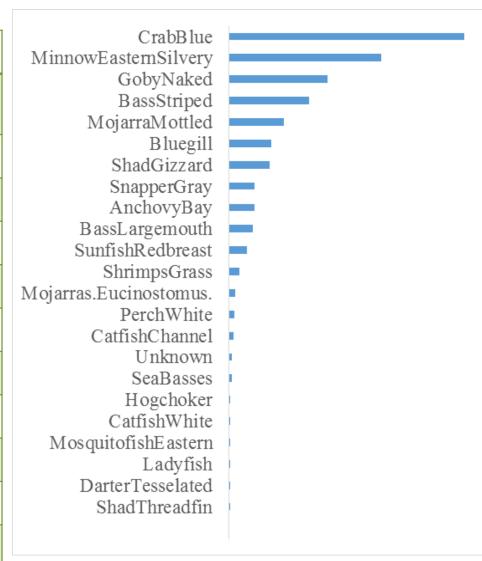
P100 Seine Results Left Leaf (≥ 0.45 ppt) Species Composition

Silversides spp.	Eastern Mosquitofish	Pumpkinseed
Bay Anchovy	Yellow Perch	Mottled Mojarra
White Perch	American Shad	Golden Shiner
Grass Shrimps	Mojarras spp.	Channel Catfish
Spottail Shiner	Blue Crab	Redear Sunfish
Inland Silverside	White Catfish	Pipefish spp.
Banded Killifish	Lepomis spp.	White Shrimp
Striped Bass	Spot	Mud Crabs
White Mullet	Alewife	Fourspine Stickleback
Blueback herring	American eel	Gray Snapper
Atlantic Needlefish	Bluegill	Naked Goby
Eastern Silvery Minnow	Hogchoker	Unidentified

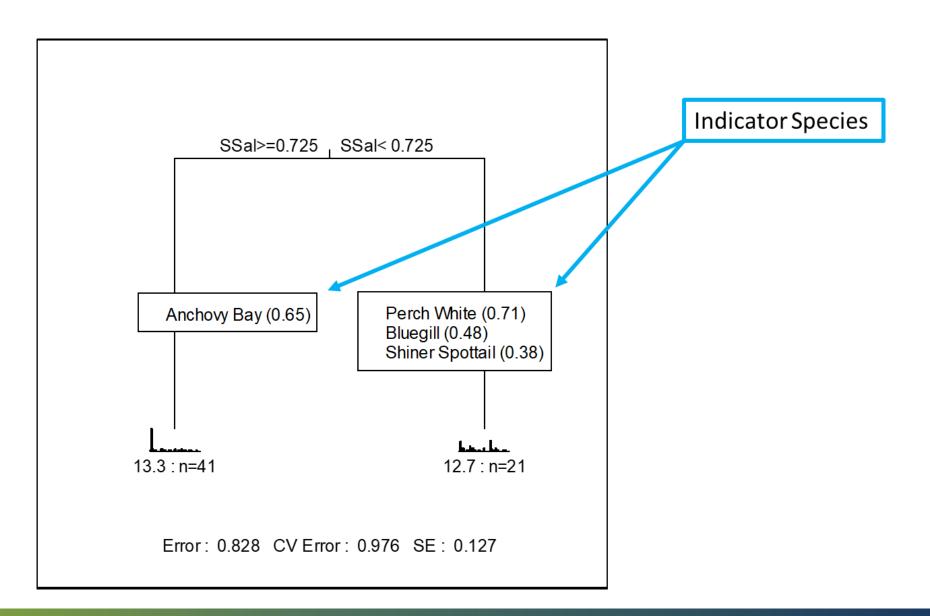


P100 Seine Results Right Leaf (<0.45 ppt) Species Composition

Blue Crab	Mojarra spp.	
Eastern Silvery Minnow	White Perch	
Naked Goby	Channel Catfish	
Striped Bass	Unidentified	
Mottled Mojarra	Sea Bass spp.	
Bluegill	Hogchoker	
Gizzard Shad	White Catfish	
Gray Snapper	Eastern Mosquitofish	
Bay Anchovy	Tessellated Darter	
Largemouth Bass	Ladyfish	
Redbreast Sunfish	Threadfin Shad	
Grass Shrimp		



P100 Trawl Results



P100 Trawl Results Left Leaf (≥0.725 ppt) Species Composition

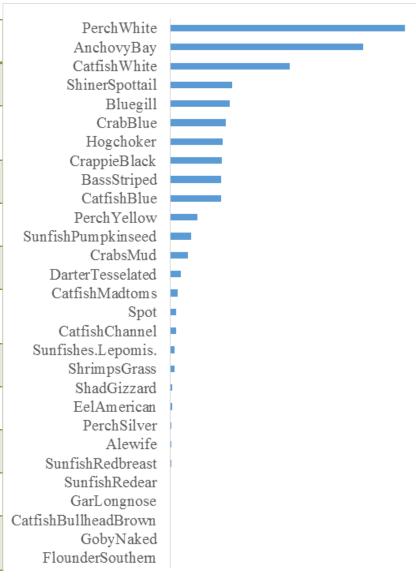
Bay Anchovy	Grass Shrimp spp.	Silverside spp.
White Perch	Silver Perch	Tessellated Darter
Blue Crab	Red Drum	Channel Catfish
White Catfish	Pumpkinseed	Yellow Bullhead Catfish
Hogchoker	Black Crappie	Spottail Shiner
Striped Bass	Brown Bullhead Catfish	Brown Shrimp
Alewife	White Shrimp	Bluegill
Eastern Mosquitofish	Yellow Perch	
Atlantic Croaker	Pipefish spp.	
Naked Goby	American eel	
Mud Crabs	Sheepshead	
Blue catfish	Spot	

AnchovyBay PerchWhite CrabBlue === CatfishWhite === Hogchoker === BassStriped Alewife = MosquitofishEastern = CroakerAtlantic = GobyNaked = CrabsMud = CatfishBlue • ShrimpsGrass = PerchSilver | DrumRed • SunfishPumpkinseed CrappieBlack CatfishBullheadBrown ShrimpWhite PerchYellow Pipefishes.Sygnathus. EelAmerican Sheepshead Spot Silversides DarterTesselated CatfishChannel CatfishBullheadYellow ShinerSpottail ShrimpBrown Bluegill ShadGizzard DrumBlack MenhadenAtlantic GarLongnose SunfishWarmouth SunfishRedear SliderCommon

KillifishBanded

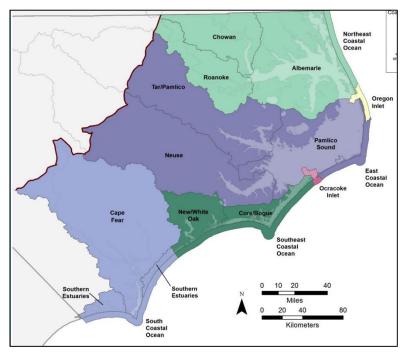
P100 Trawl Results Right Leaf (<0.725 ppt) Species Composition

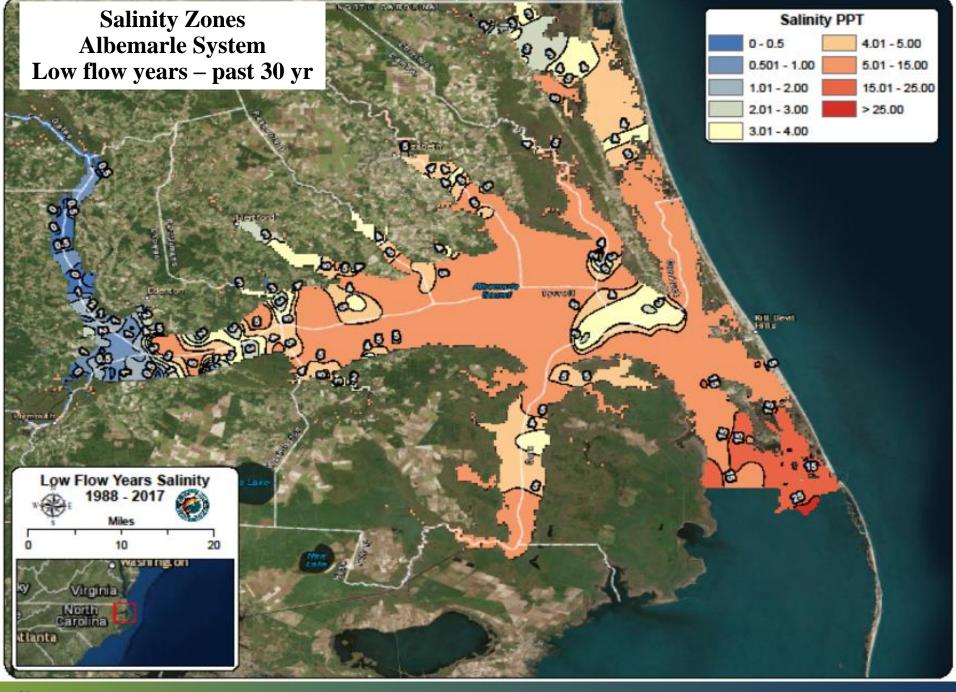
White Perch	Mud Crabs	Longnose gar
Bay Anchovy	Tessellated Darter	Redear Sunfish
White Catfish	Madtom spp.	Brown Bullhead Catfish
Spottail Shiner	Spot	Naked Goby
Bluegill	Channel Catfish	Southern Flounder
Blue Crab	Lepomis spp.	
Hogchoker	Grass Shrimp spp.	
Black Crappie	Gizzard Shad	
Striped Bass	American Eel	
Blue Catfish	Silver Perch	
Yellow Perch	Alewife	
Pumpkinseed	Redbreast Sunfish	

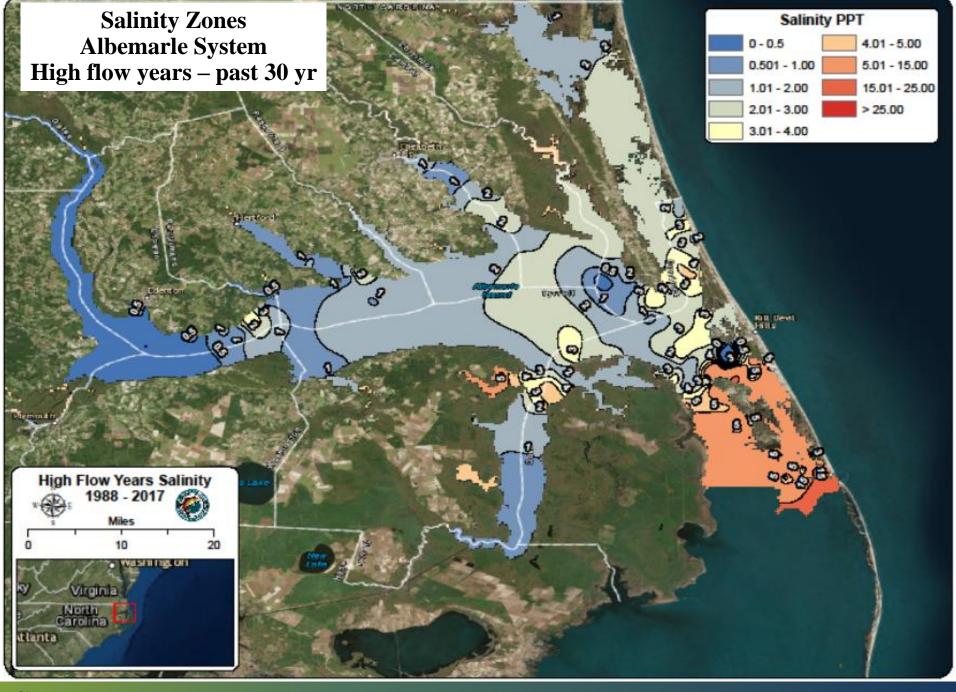


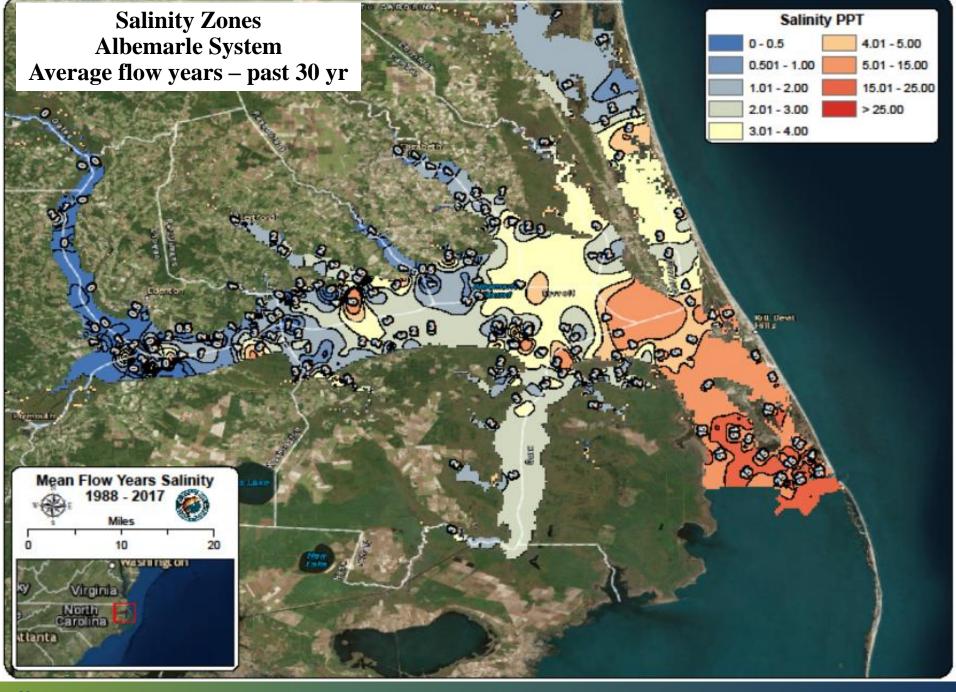
Salinity Data

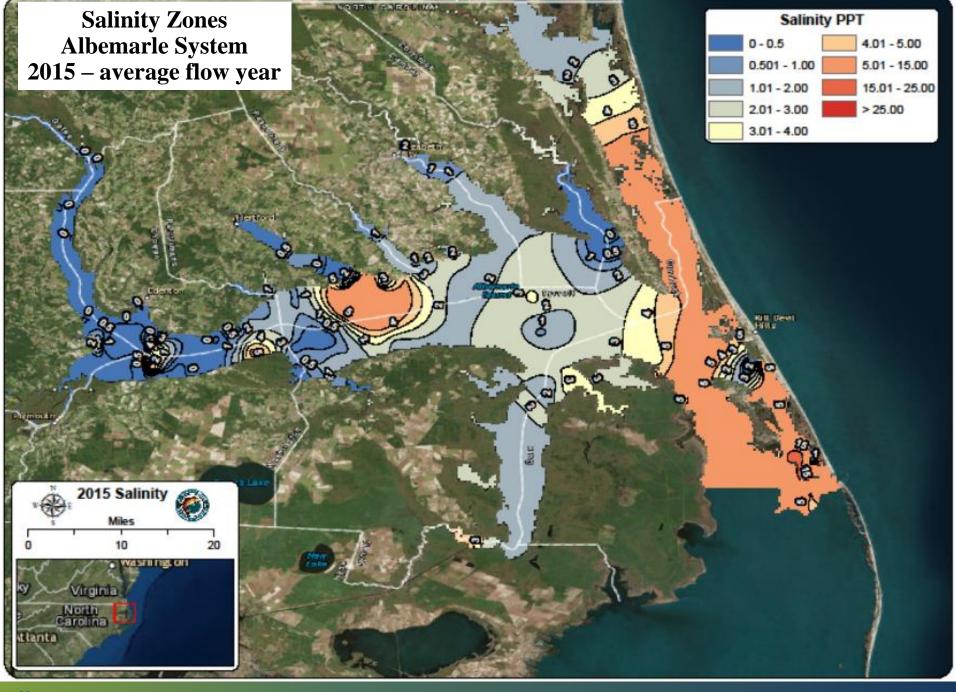
- Regional approach using CHPP regions
 - Region 1 Albemarle
 - Region 2 Pamlico
 - Region 3 Core/Bogue
 - Region 4 Cape Fear
- Interpolation method
 - Spline with barriers
 - Barrier = jurisdictional waters
- Time Series = 1988 to 2017 (30 years)
- Flow years (high, normal, low) determined by +/- 1 SD regional gauge average
- Data Inputs for Albemarle and Pamlico regions
 - DMF programs: 100, 115, 120, 123, 135, 146, 150, 160, 195, 365, 366, 635, 915, and Shellfish Sanitation
 - DWR Ambient Water Quality Monitoring
 - ModMon
 - WRC programs

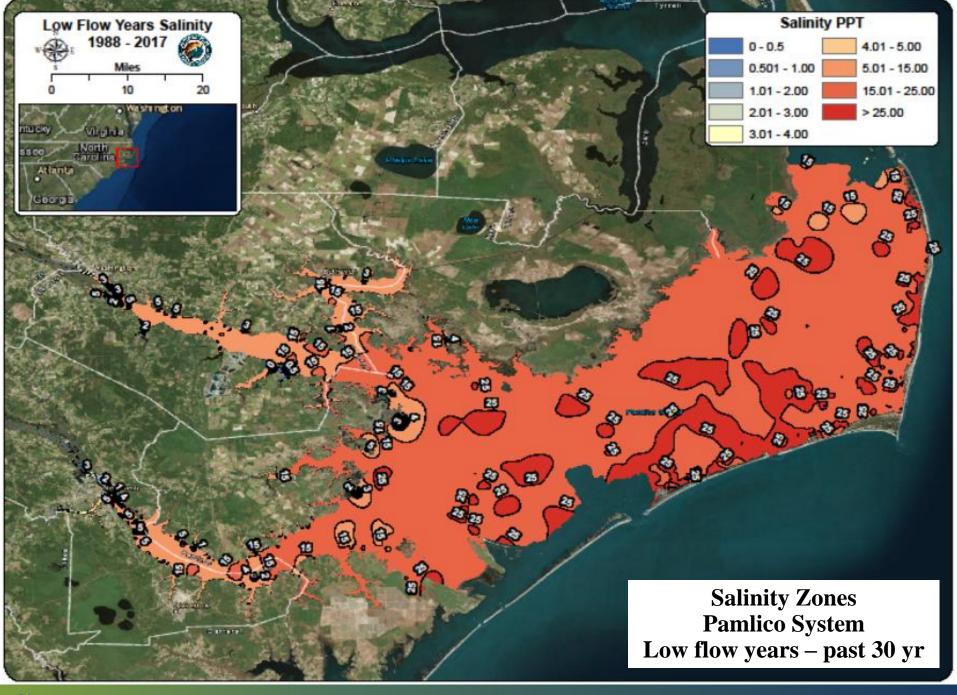


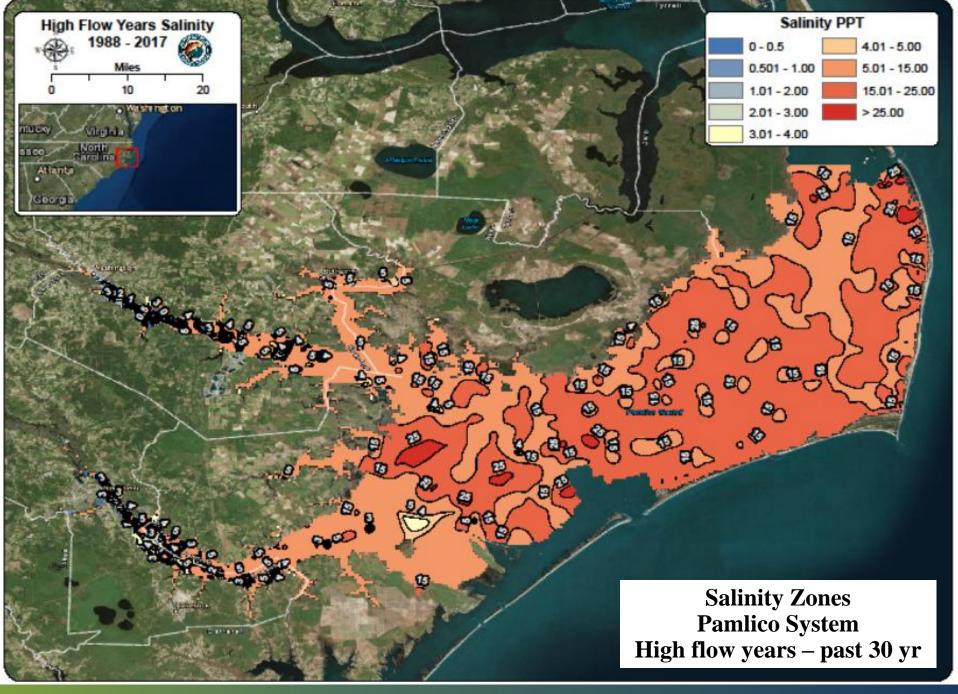


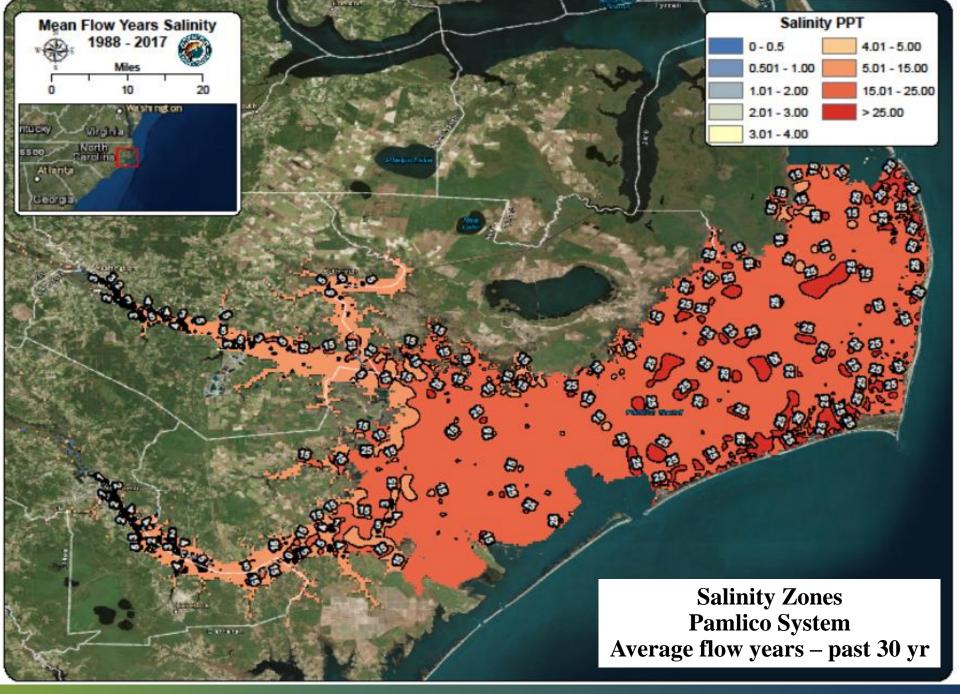


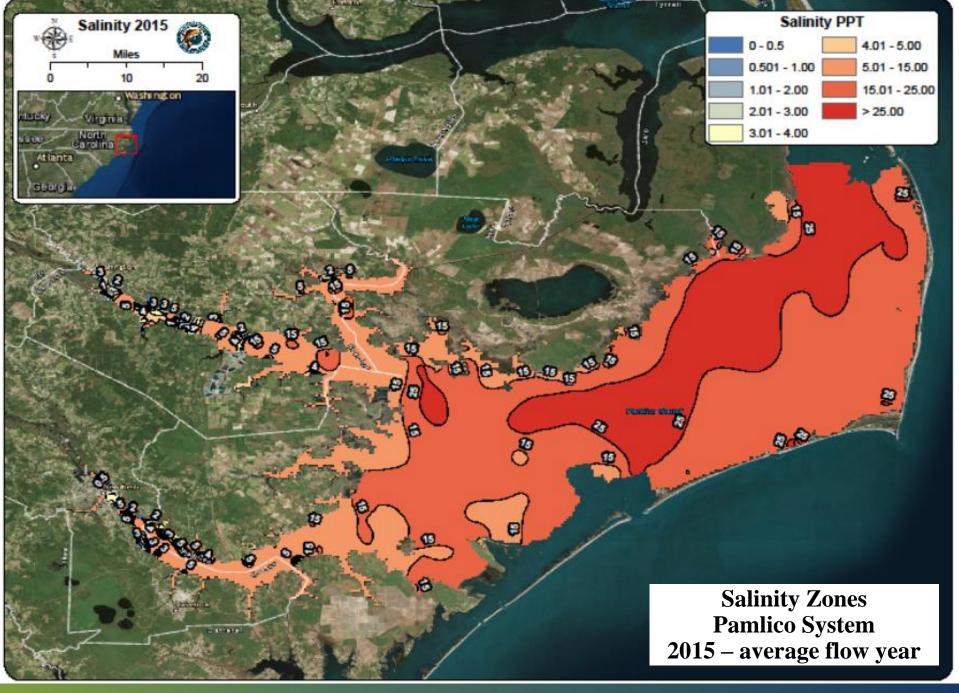












Problematic Coastal Fishing Waters

WRC Delineation Background Jan 23 Meeting Handout: "There are waters currently designated as Coastal Fishing Waters

that do not meet any of the following statutory criterion:

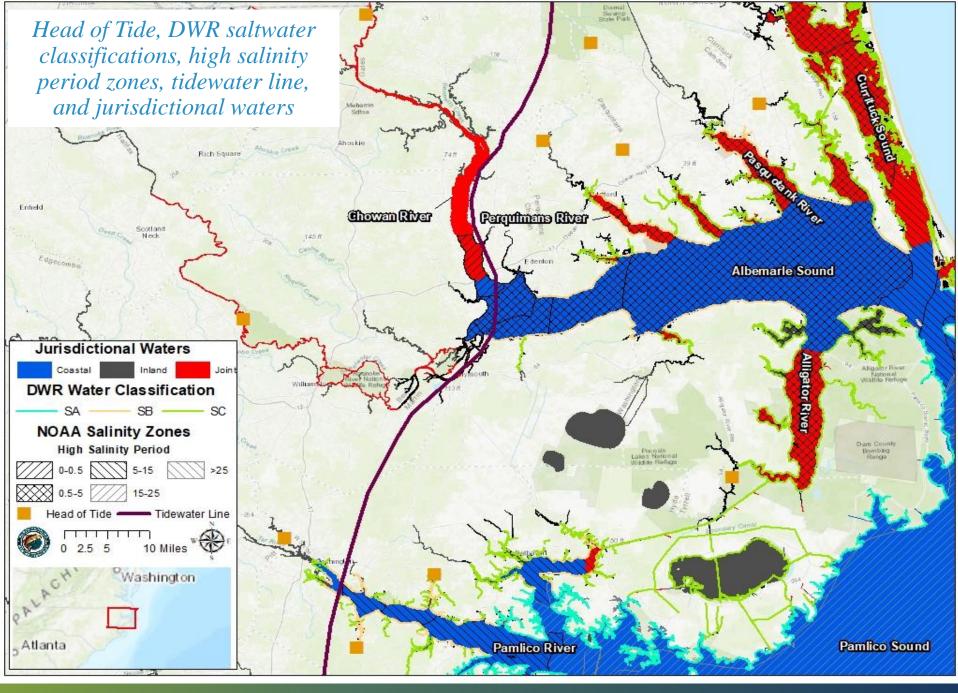
- Atlantic Ocean
- Coastal Sounds
- Estuarine waters

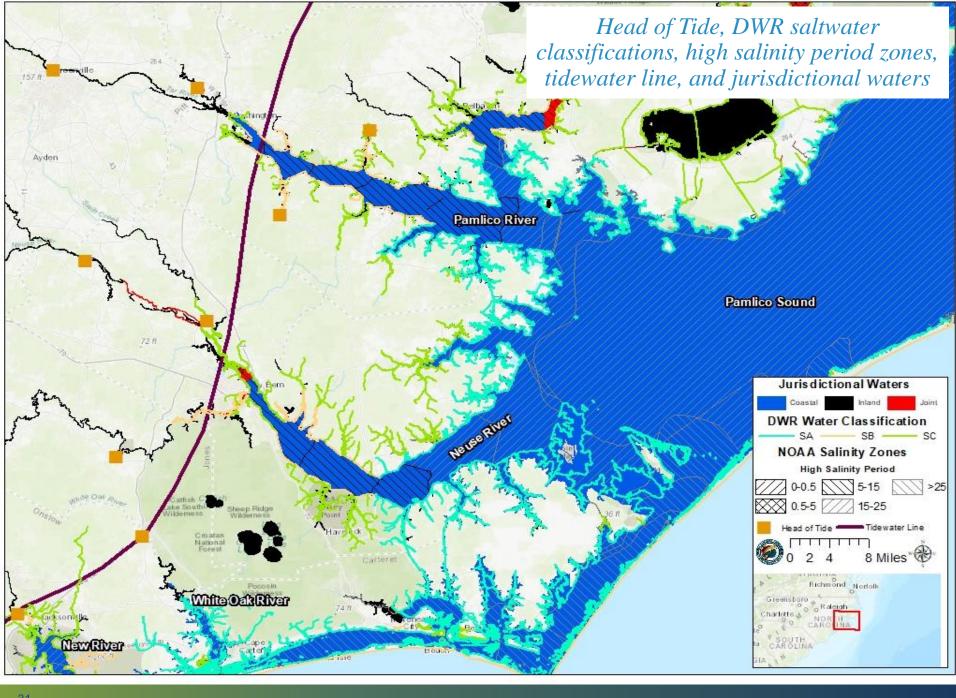
As a result the WRC 10C .0108 rule referencing MFC 03Q .0202 cannot be readopted without modification."

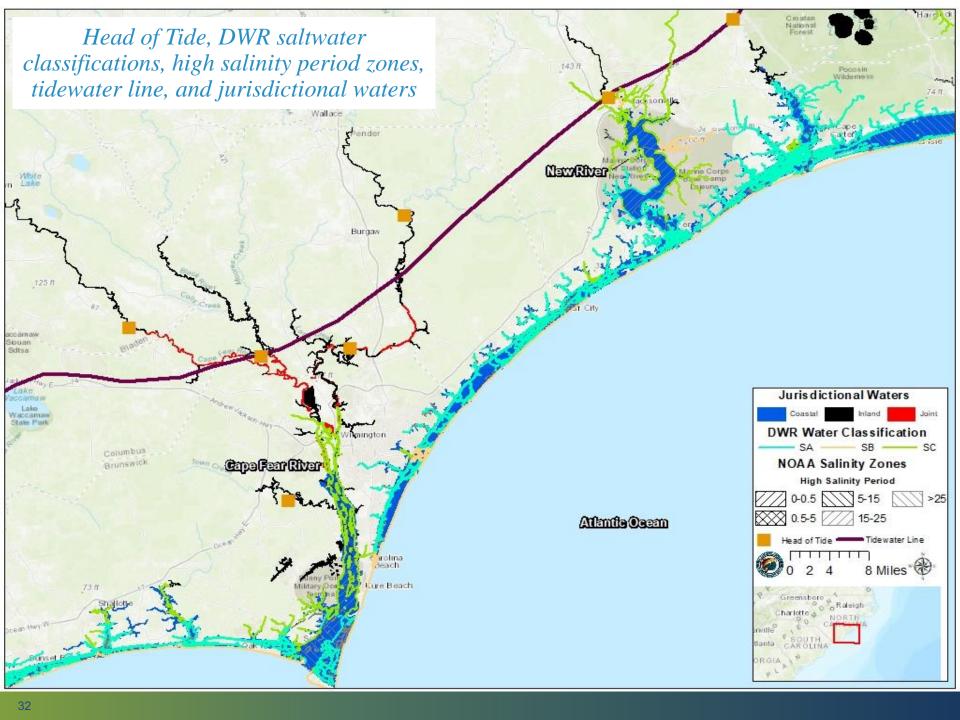
- The specific estuarine waters of concern have not been identified
- Few commission mission critical issues with jointly agreed to ICJ boundaries for past 53 years.
- Phased approach to address specific locales and increase likelihood of rule adoption within the APA timeline

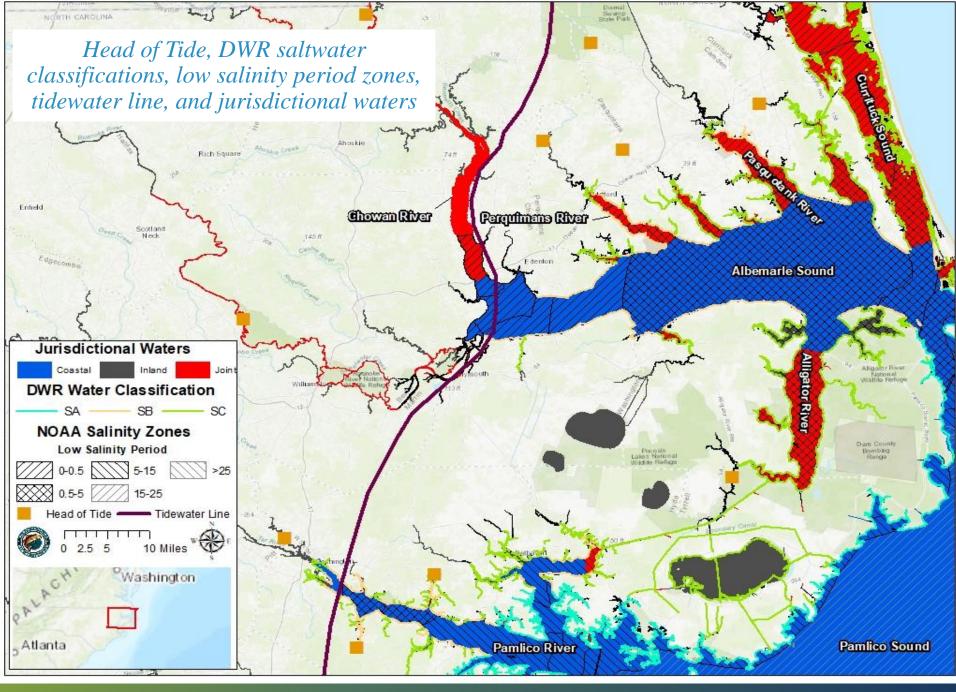
Use of 0.5 ppt salinity contour to separate inland and coastal fishing waters

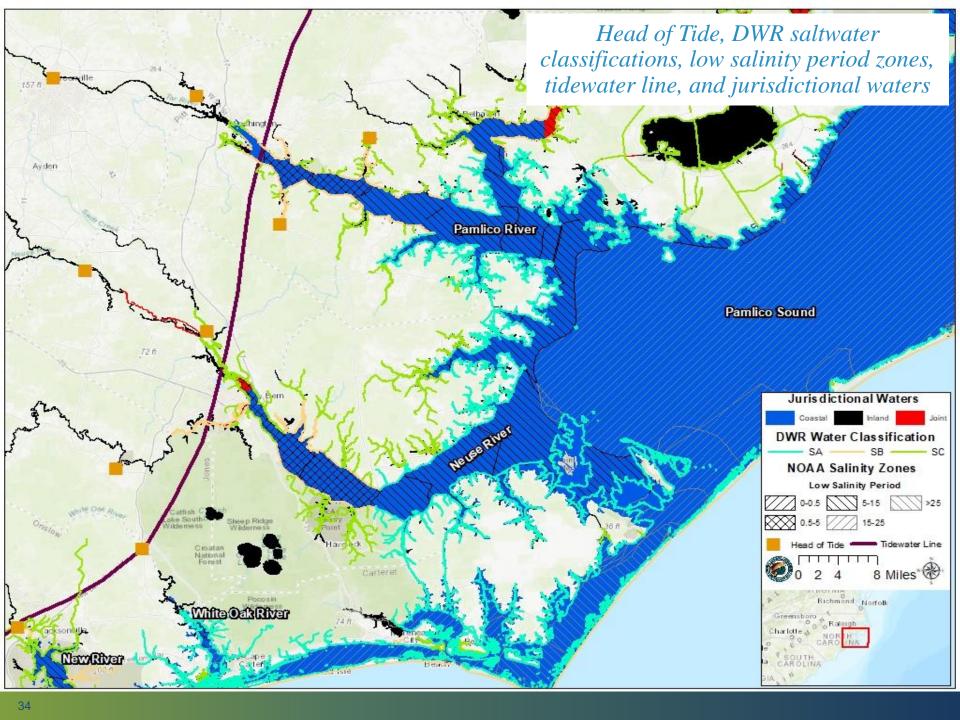
- Head of tide (0 ppt) is far upstream of 0.5 ppt salinity contour.
- 0.5 ppt line is in estuarine waters (boundary approximately between tidal fresh and oligohaline zones)
- Similar to Division of Water Resources criteria for Saltwater classification - 0.9 ppt
- Similar to joint waters boundaries in the Albemarle system (will simplify and accelerate rule change process)
- Similar to the Tidewater Physiographic Line
- Based on the Venice system- most applied and accepted salinity classification system (Orlando et al. 1994; Taupp and Wetzel 2014; Guenther and MacDonald 2012)
- Venice system categories used in National Estuary Inventory and many other places
- Aligns with results from fish assemblage analysis results for Albemarle Sound (biologically based salinity zone)

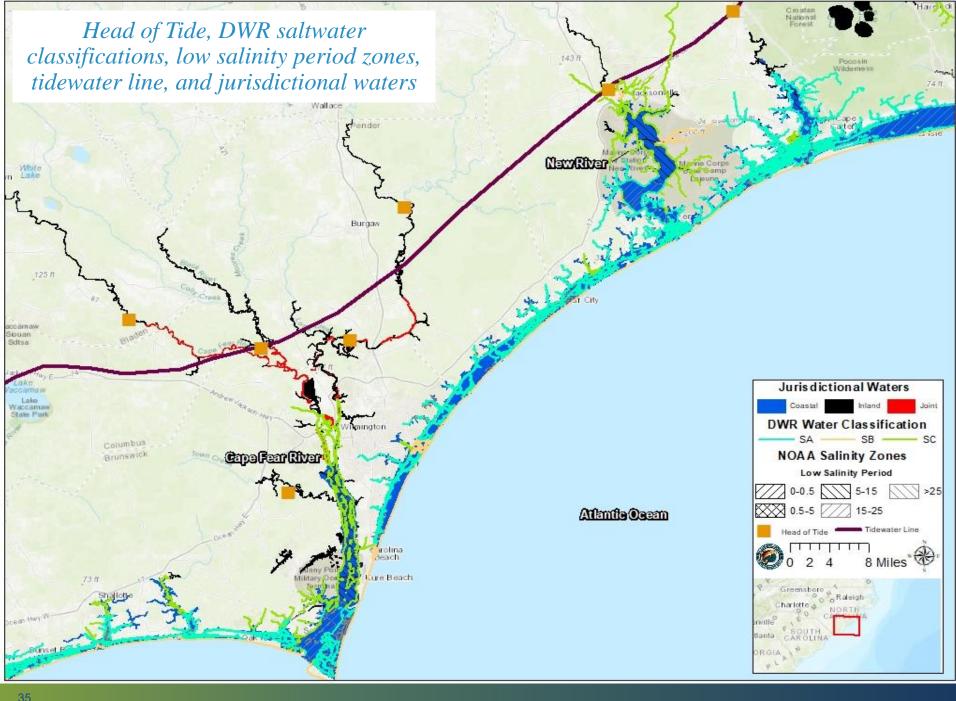












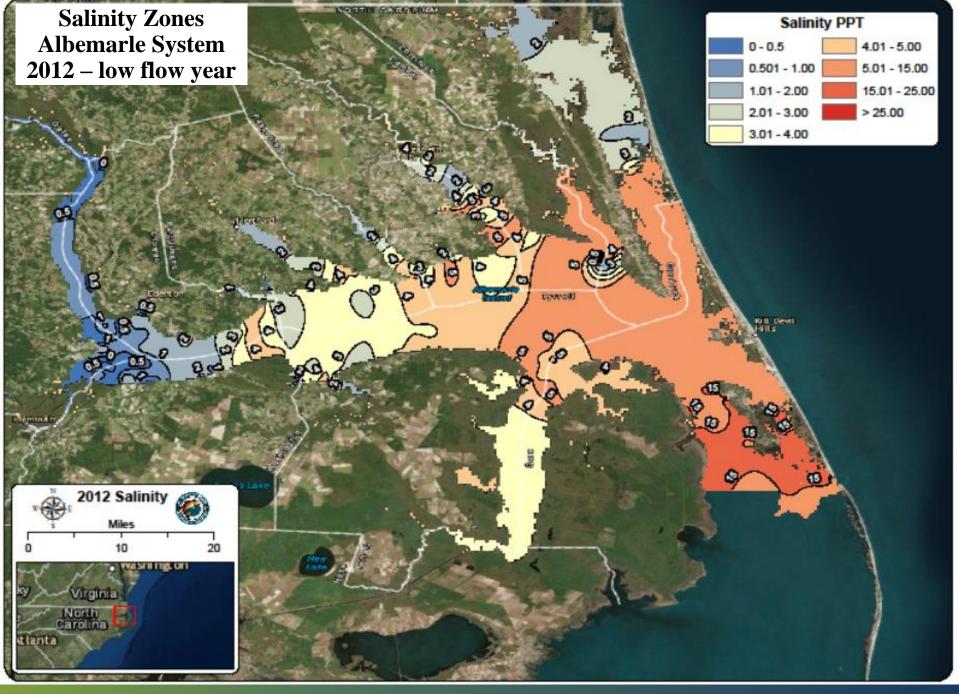
QUESTIONS?

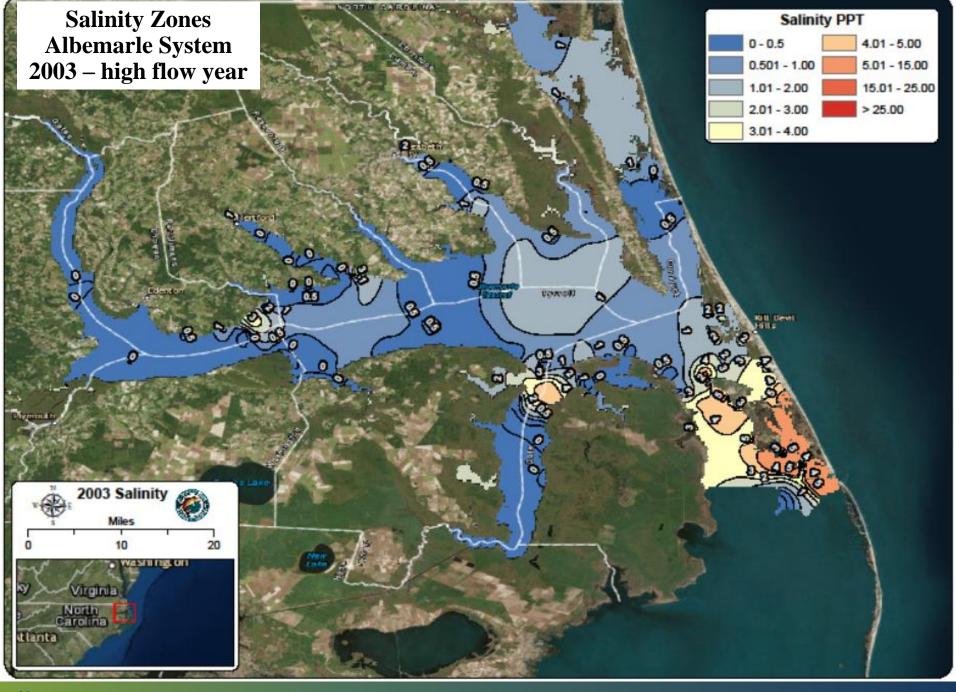
AGOL Mapviewer:

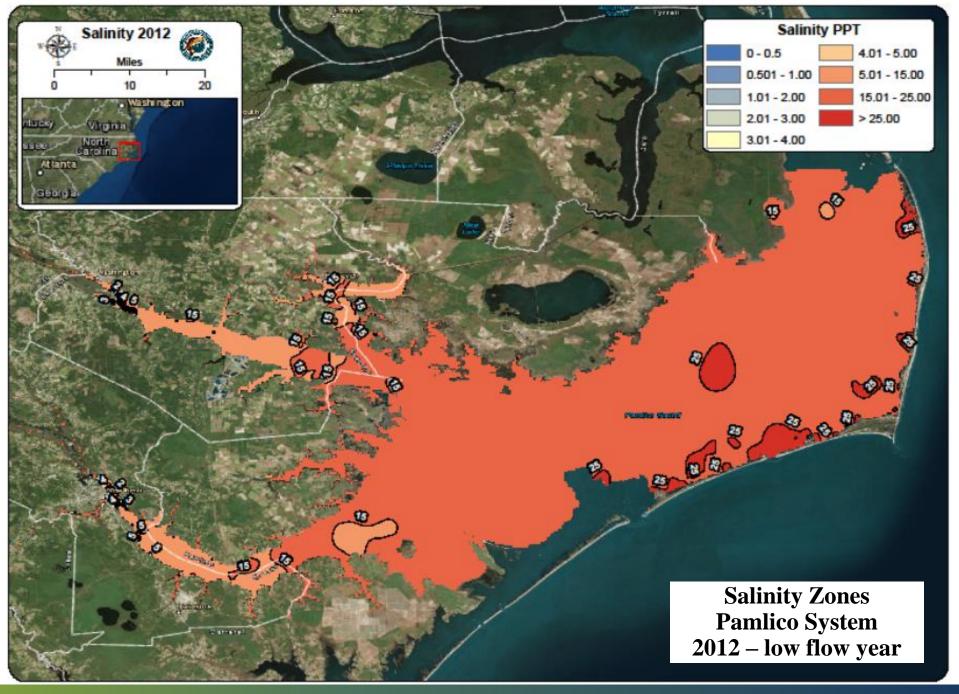
https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=f71a05 52c6bb4df79bea4be45816c003

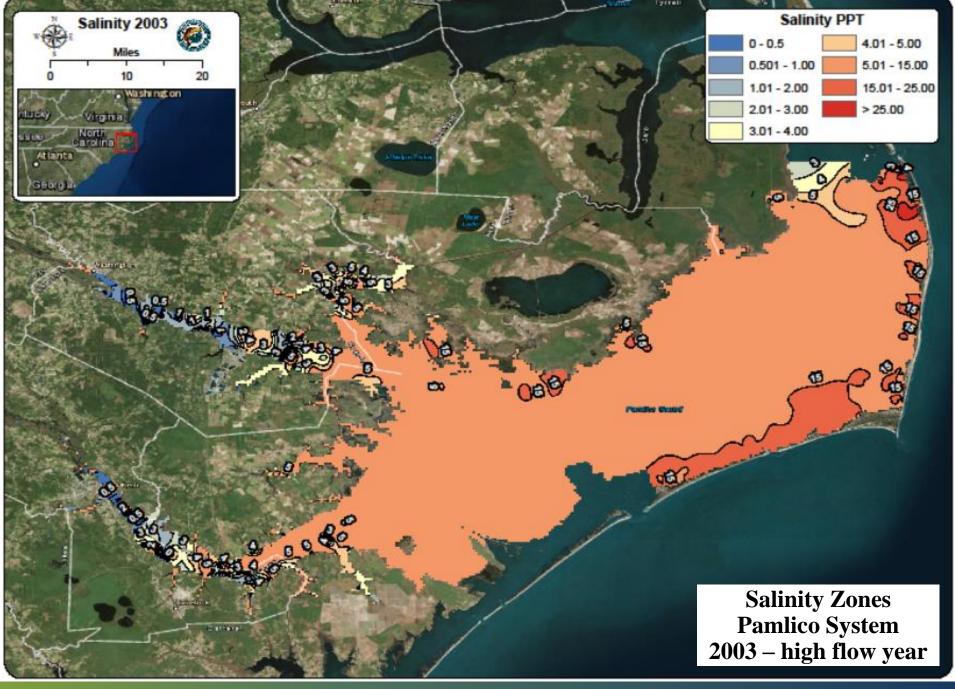


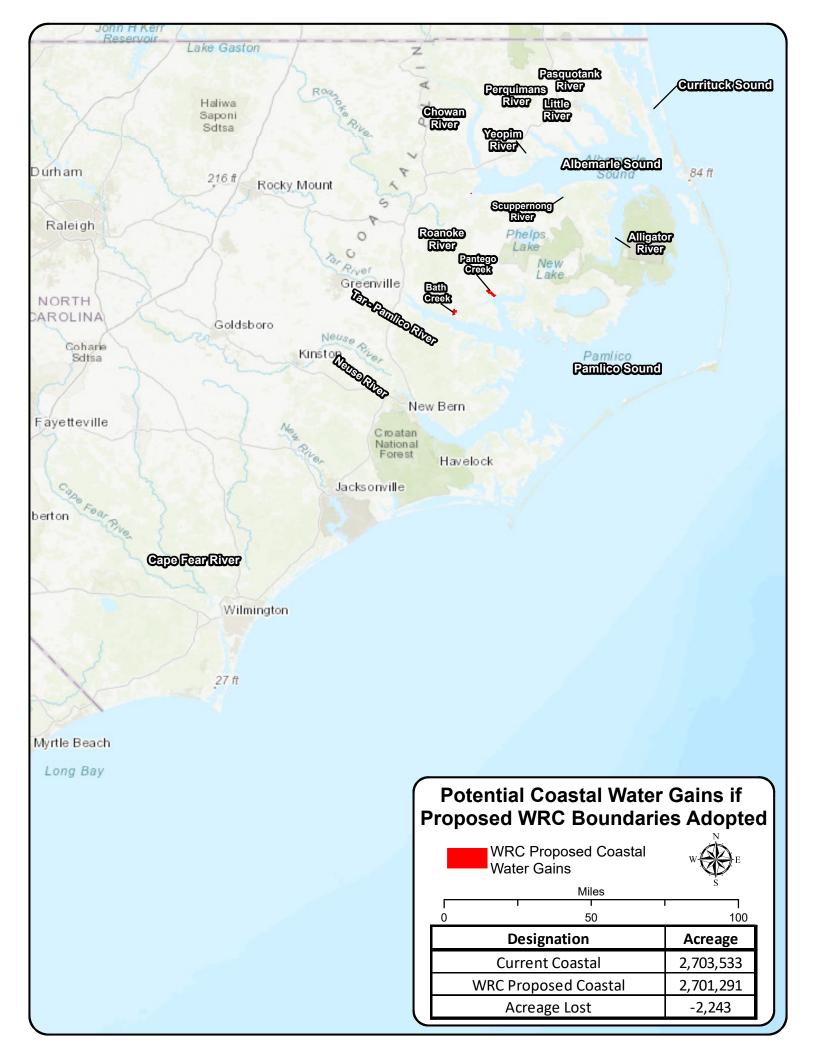
Extra Salinity Slides if Needed

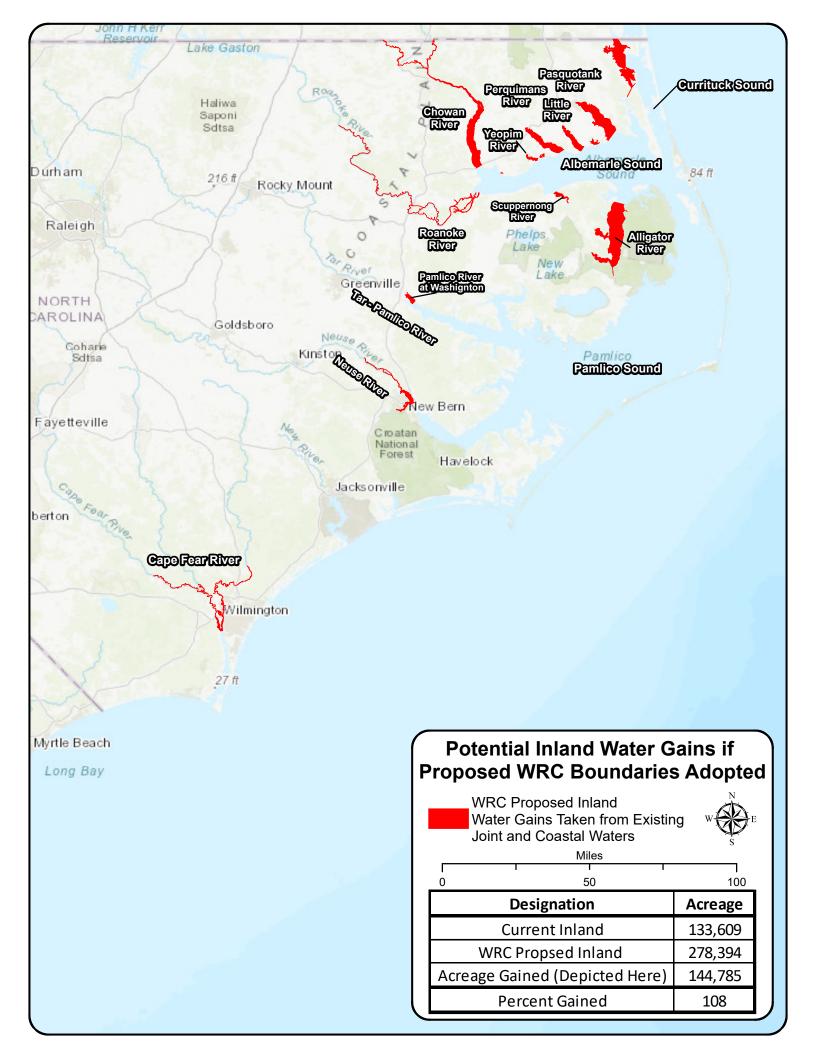


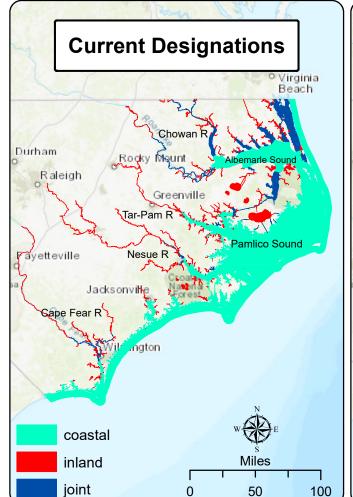
















DMF DBCJIW Layer			
Designation	Acreage		
Coastal	2,703,533		
Inland	133,609		
Joint	242,642		
Total	3,079,785		

Proposed Difference					
Designation	Acreage	% Change			
Coastal	2,242 Decrease	-0.08%			
Inland	144,784 Increase	108.37%			
Joint	142,542 Decrease	-58.75%			

WRC Proposed Layer			
Designation Acreage			
Coastal	2,701,291		
Inland	278,394		
Joint	100,100		
Total	3,079,785		

A PRESENTATION WILL BE GIVEN AT THE MEETING





MICHAEL S. REGAN

STEPHEN W. MURPHEY

Oct. 25, 2019

MEMORANDUM

TO: N.C. Marine Fisheries Commission

FROM: Catherine Blum, Fishery Management Plan and Rulemaking Coordinator

Fisheries Management Section

SUBJECT: Fishery Management Plan Update

Issue

Update the Marine Fisheries Commission (MFC) on the status of ongoing North Carolina fishery management plans (FMPs).

Action Needed

For informational purposes only; no action is needed at this time.

Overview

This memo provides an overview on the status of the North Carolina FMPs for the November 2019 MFC business meeting.

At the MFC 's August 2019 business meeting, staff provided an update on changes being implemented that are designed to achieve efficiencies in the FMP process. Changes include the timing of the steps in initial development of draft FMPs, how the division works with the FMP advisory committee and how the committee operates, and what the FMP documents look like. Before the initial development of a draft FMP, a scoping period will be held to notice the public that the review of the FMP is underway, inform the public of the stock status (if applicable), solicit input from the public on the list of potential management strategies to be developed, and recruit advisers to serve on the FMP advisory committee. These changes are being incorporated beginning with Amendment 3 to the Southern Flounder FMP.

Blue Crab FMP

The review of the Blue Crab FMP is ongoing. A stock assessment was completed in 2018 and determined the North Carolina blue crab stock* is overfished* and overfishing* is occurring. Reductions in total removals of blue crab are required by state law to achieve a sustainable harvest*, end overfishing within two years, and recover the stock from an overfished condition within 10 years. An advisory committee was formed and assisted the division with development of Amendment 3 to the FMP that contains management measures to meet these requirements. At its November 2019 business meeting, the MFC is scheduled to review recommendations from the public, advisory committees, and the division; vote to select its preferred management options; and vote to send the draft FMP to the Department of Environmental Quality Secretary for review. Final approval of the FMP by the MFC is scheduled for February 2020. Adaptive management measures adopted in 2016 will remain in place until the next amendment is adopted. For more information, please refer to the Blue Crab FMP section of the briefing materials.

Southern Flounder FMP

The MFC adopted Amendment 2 to the Southern Flounder FMP at its August 2019 business meeting. Amendment 2 moved quickly through the process of development and adoption to address the overfished* and overfishing* status of the southern flounder stock* that was determined by the 2019 coast-wide stock assessment. The season closures resulting from Amendment 2 were deemed critical to the successful rebuilding of the southern flounder stock, while other, more robust management strategies are examined and developed in Amendment 3. The Southern Flounder FMP Advisory Committee is assisting the division with development of Amendment 3 to end overfishing and rebuild the stock. Lead staff will provide a summary at the November 2019 MFC business meeting on how the new changes to the process are being incorporated and the progress of draft Amendment 3.

Shrimp FMP

The review of the Shrimp FMP was scheduled to begin in 2018; however, the process was not able to start any sooner than mid-2019 due to the availability of staff. At its August 2019 business meeting, the MFC voted to deny a petition for rulemaking that would have established new shrimp trawl management areas, as well as gear and time restrictions. If the petition had been approved, the review of the Shrimp FMP would have been further delayed. The review has since commenced with the formation of the staff plan development team that has started meeting to discuss potential management strategies for Amendment 2. The MFC directed the division to consider many of the issues the petition raised for the review of the FMP. Lead staff will provide a summary at the November 2019 MFC business meeting on the progress of draft Amendment 2.

Estuarine Striped Bass FMP

For the review of the Estuarine Striped Bass FMP, stock assessments for the Central Southern Management Area stocks* and the Albemarle Sound-Roanoke River stock that began in 2017 are nearing completion. Multiple assessment techniques were used, given the number of systems to assess and the variety of data sources for each system. The plan development team met in September and October to continue working towards completion of the stock assessments to inform the review of the FMP and development of Amendment 2. The Peer Review Workshop for the stock assessments is scheduled to be held Dec. 2-5, 2019 in New Bern. This is a joint FMP with the Wildlife Resources Commission, so all updates and reviews are joint efforts by both agencies.

Spotted Seatrout FMP

A benchmark stock assessment for spotted seatrout is underway coinciding with the scheduled Spotted Seatrout FMP review. The prior stock assessment from 2014 indicated that the stock* is not overfished* and is not experiencing overfishing*. The plan development team met in June for the stock assessment Planning Workshop and in September for the Data Workshop. The Methods Workshop is tentatively scheduled for February 2020.

NORTH CAROLINA FISHERY MANAGEMENT PLANS

November 2019

- Review Goal and Objectives
- Review Timeline

Southern Flounder Draft Developed by Division/Fishery Management Plan Advisory Committee

 Approve Draft for Review by Public and Marine Fisheries Commission Advisory Committees

Blue Crab

- Review Public, Advisory Committee, and Division Input
- Select Preferred Management Options and Approve Draft for Review by DEQ Secretary
- Approve Sending Draft Fishery Management Plan Forward for Rulemaking
- Publication of Notice of Text for Rulemaking
- Public Comment Period and Hearing(s)
- Review Public Input on Proposed Rules
- Final Approval of Plan and Rules
- Implement Strategies and Recommendations



MICHAEL S. REGAN

STEPHEN W. MURPHEY

Oct. 25, 2019

MEMORANDUM

TO: N.C. Marine Fisheries Commission

FROM: Jason E. Rock and Corrin L. Flora, Blue Crab Fishery Management Plan

Co-Leads

SUBJECT: Draft N.C. Blue Crab Fishery Management Plan Amendment 3 Division

Recommendations & Public and Advisory Committee Review and Comment

Outcomes

Issue

The division has completed the public and advisory committee (AC) review of the draft N.C. Blue Crab Fishery Management Plan (FMP) Amendment 3. Following this review period, the division staff finalized recommendations to the Commission. Below are summary statements regarding those proceedings and included are documents relaying the detailed recommendations from all.

Action Needed

- The Marine Fisheries Commission (MFC) will vote on their preferred management options.
- The MFC will vote on sending the draft FMP for departmental and legislative review.

Recommendations

The full division recommendations are listed by issue in Table 1, along with the recommendations from the Blue Crab FMP AC and from the four MFC ACs. Also included is the % agreement for specific management strategies derived from the public comment via the Online Questionnaire. The division took into consideration input from the AC's and public comment when finalizing its recommendations.

Changes of note to the division recommendations from the August 2019 MFC meeting:

- The harvest reductions needed can potentially be met with various management options, to afford the MFC the flexibility to utilize the suite of management options available, the division has recommended a minimum reduction of 2.2%, while encouraging at least a 5.9% reduction.
 - o 2.2% reduction has a 50% probability of success
 - o 5.9% reduction has a 90% probability of success
- The division incorporated the Blue Crab FMP AC's recommendation to allow the opportunity for management measures to be relaxed if the stock assessment indicates it's possible.
- The division incorporated the recommendation by the FMP AC and the majority of the MFC ACs to have the division report back to the Habitat and Water Quality and the Shellfish/Crustacean ACs with progress on each water quality management option.

Advisory Committee Meetings and Public Comment Summary Outcomes:

- There was broad support among the ACs for:
 - o Prohibiting immature female hard crab harvest implemented in 2016 Revision;
 - o Maintaining the 5% cull tolerance implemented in 2016 Revision;
 - o Addressing water quality issues;
 - o Moving the Drum Inlet crab spawning sanctuary to encompass Ophelia Inlet;
 - Designating new crab spawning sanctuaries in southern inlets (Beaufort through Tubbs);
 and
 - March 1 Oct. 31 closure for southern crab spawning sanctuaries
- Public comment summary from AC meetings:
 - o A total of 22 public comments were received during the five AC meetings.
 - o Generally, there was little public support for any of the proposed measures in Amendment 3.
 - o A major point was a March closure period would be devastating because prices are high and March is also when crabbers stock up Jimmie (male) crabs to use as peeler bait.
 - o Another major point was water quality is the biggest issue facing the blue crab stock.
 - O Concerns were also raised about increased effort in the blue crab fishery due to recent changes in flounder regulations.
- Online questionnaire results:
 - o 51 total responses to the online questionnaire (see Appendix 1, 2, and 4).
 - o 41% of respondents were in support of Amendment 3.
 - Of those respondents supporting Amendment 3:
 - Sustainable harvest, water quality, and spawning sanctuaries were issues of highest concern.
 - Favored options for achieving sustainable harvest were: mature female size limit and limiting the harvest of immature female hard crabs.
 - Qualitative management measures favored were: limiting the harvest of sponge crabs, a minimum size limit for peeler and soft crabs, and pot limits
 - Addressing water quality concerns was overwhelmingly supported
 - Establishing new spawning sanctuaries and designating a migration corridor in Croatan Sound were also supported
 - Most respondents supported the criteria for designating Diamondback Terrapin Management Areas
 - Also supported additional limits on crab harvest from both targeted crab dredging and oyster dredging
- One mailed public comment was received that urged for blue crab to be stocked rather than placing additional regulations on fishermen (Appendix 3).

For more information, please refer to the following documents:

- Appendix 1: Online Questionnaire Results
- Appendix 2: List of Online Questionnaire Narrative Comments Received
- Appendix 3: Public Comment Delivered to NCDMF
- Appendix 4: Raw Online Questionnaire Responses (available upon request)
- Northern Regional Advisory Committee Memo
- Southern Regional Advisory Committee Memo
- Shellfish/Crustacean Advisory Committee Memo
- Habitat and Water Quality Advisory Committee Memo
- Blue Crab FMP Advisory Committee Memo
- Draft Blue Crab FMP Amendment 3

Table 1. Summary of the NCDMF, Blue Crab FMP and standing and regional AC, and online questionnaire recommendations for Amendment 3 to the Blue Crab FMP. Highlighted text denotes changes to the NCDMF and Blue Crab FMP AC recommendations since the last commission meeting in August 2019. **Bolded** items are measures currently in effect through the 2016 Revision to Amendment 2 of the Blue Crab FMP. *Only management options supported by more than 50% of respondents were included for the online questionnaire.

Issue	NCDMF	Blue Crab FMP AC	Northern Regional AC	Southern Regional AC	Shellfish/Crustacean AC	Habitat and Water Quality AC	Online Questionnaire*
Harvest	Minimum harvest reduction of 2.2% (50% probability of success). The division encourages the commission to consider a reduction of at least 5.9% (90% probability of success) and to include: 1) prohibit immature female hard crab harvest, 2) 5-inch minimum size limit for mature females, and 3) a continuous closure period that results in a reduction of at least 4.6% to make up the remainder of the preferred reduction	Option 18.3: 1) North of the Highway 58 Bridge: January 1 through January 31 closed season, 6.75" mature female hard crab maximum size limit, and prohibit immature female hard crab harvest and 2) South of the Highway 58 Bridge: March 1 through March 15 closed season and prohibit immature female hard crab harvest (3.2% harvest reduction; 50% probability of success)	Support Blue Crab AC recommendation	Recommend DecJan. closure North of Hwy 58 Bridge and a Jan. closure South of Hwy 58 Bridge; 5-inch mature female minimum size limit; prohibit harvest of immature female hard crabs (4.3% harvest reduction; 67% probability of success)	Recommend tabling FMP process until the stock assessment is updated with data through 2019 to see the effects of the 2016 regulations	No position	Mature female size limit (67%)
Sustainable H	Recommended closure period will replace current pot closure period and will remain closed for the entire period	Recommended season closure will replace current pot closure period and will remain closed for the entire time period	Support NCDMF recommendation for adaptive management framework	Maintain 5% cull tolerance	Support consideration of habitat as part of the overall strategy for management of the blue crab fishery		Limit harvest of immature female hard crabs (67%)
ıstair	Maintain 5% cull tolerance established in 2016 Revision	Maintain 5% cull tolerance established in 2016 Revision		Leave adaptive management decision to MFC			
Sı	Adopt proposed adaptive management framework which was updated to allow management measures to possibly be relaxed if the assessment update shows the stock is not overfished and overfishing is not occurring	Adopt proposed adaptive management framework and allow measures to be relaxed is assessment update says stock is not overfished and overfishing is not occurring					
		Recommend updating the stock assessment once 2019 data is available					

Issue	NCDMF	Blue Crab FMP AC	Northern Regional AC	Southern Regional AC	Shellfish/Crustacean AC	Habitat and Water Quality AC	Online Questionnaire*
ment	Option 2a: increase number of cull rings in pots to 3	Leave in existing rules put in in 2016 and do not adopt anything else at this time, except with 2 options on cull rings: 1)2 cull rings in proper corner placement or 2) keeping the 3 cull rings with 1 in proper placement	Support Blue Crab AC recommendation	Support Blue Crab AC recommendation regarding number and placement of cull rings	No position	No position	Limit the harvest of sponge crabs (100%)
Manage	Option 3b: two cull rings placed within one full mesh of corner and the apron on opposite outside panels in the upper chamber			Support NCDMF recommendation for option 4c (remove cull ring exemptions)			Minimum size limit for soft and peeler crabs (61%)
Qualitative Management	Option 4c: remove cull ring exemptions for Newport River and eastern Pamlico Sound and prohibit designation of exempt areas in future			Support option 7a (prohibit dark sponge crab harvest during month of April)			Impose a limit on the number of crab pots fished (61%)
Que	Option 7c: prohibit harvest of sponge crabs year-round						
	Option 8a: establish 3" minimum size limit for peeler and soft crabs						
ity	Support all management options presented	Support all management options in this paper	Support Blue Crab AC recommendation	Support NCDMF and Blue Crab AC recommendations	No position	Recommend accepting the water quality recommendation from the Blue Crab AC and adding the Habitat and Water Quality AC to the reporting groups	Support recommendations to address water quality concerns (89%)
Water Quality	Recommend Option 4 as the highest priority	Support making the highest priority option four tasking the CHPP steering committee to what is suggested here and follow up with each of the other recommendations as that step is justified					
M	Division habitat staff shall regularly report back to the Habitat and Water Quality and the Shellfish/Crustacean ACs with progress on each management option	Have the habitat staff report back to the Shellfish/Crustacean AC with progress					

Issue	NCDMF	Blue Crab FMP AC	Northern Regional AC	Southern Regional AC	Shellfish/Crustacean AC	Habitat and Water Quality AC	Online Questionnaire*
	Expand boundaries as presented for Oregon, Hatteras, Ocracoke, and Barden inlets	Keep Oregon, Hatteras, and Ocracoke the same and change Drum and Barden to proposed boundaries	Split consensus on whether to expand or keep boundaries for existing spawning sanctuaries	Support Blue Crab AC recommendations	No position	Recommend keeping Oregon, Hatteras, and Ocracoke spawning sanctuary boundaries the same	Establish new crab spawning sanctuaries at all inlets without a crab spawning sanctuary (61%)
	Move boundary for Drum Inlet crab spawning sanctuary as presented	Add spawning sanctuaries from Beaufort through Tubbs inlets using AC recommended boundaries with a closure period of March 1 through Oct. 31 with same restrictions as existing sanctuaries	Support NCDMF and Blue Crab AC recommendation to move Drum Inlet spawning sanctuary			Support NCDMF and Blue Crab AC recommendation to move Drum Inlet spawning sanctuary	Establish a crab spawning sanctuary to serve as a migration corridor in Croatan Sound (56%)
pawning Sanctuaries	Concur with AC recommendations for Beaufort, Bogue, Bear, Browns, New River, Topsail, Rich, Mason, Masonboro, Carolina Beach, Shallotte, Lockwood Folly, and Tubbs inlets		Support Blue Crab AC recommendation for southern spawning sanctuary boundaries (excluding Cape Fear River)			Support Blue Crab AC recommendation for southern spawning sanctuary boundaries (excluding Cape Fear River)	
ing Sa	Use NCDMF recommended boundary for Cape Fear River Inlet crab spawning sanctuary		Support NCDMF recommended boundary for Cape Fear River spawning sanctuary			Support NCDMF recommended boundary for Cape Fear River spawning sanctuary	
Spawn	Concur with AC recommendation of a March 1 through October 31 closure for Beaufort Inlet through Tubbs Inlet sanctuaries with same restrictions as existing crab spawning sanctuaries		Recommend March 1 - Oct. 31 closure for spawning sanctuaries south of the Hwy 58 Bridge (Bogue through Tubbs inlets). Beaufort Inlet would have same closure period as existing spawning sanctuaries (March 1 - Aug. 31)			Recommend March 1 - Oct. 31 closure for spawning sanctuaries south of the Hwy 58 Bridge (Bogue through Tubbs inlets). Beaufort Inlet would have same closure period as existing spawning sanctuaries (March 1 - Aug. 31)	
	Establish a crab spawning sanctuary to serve as a migration corridor on the east side of Croatan Sound, as presented and in conjunction with expanding the Oregon Inlet spawning sanctuary, closed to blue crab harvest from May 16 through July 15 and with the same restrictions as existing sanctuaries		Do not support a spawning sanctuary (migration corridor) in Croatan Sound			Do not support a spawning sanctuary (migration corridor) in Croatan Sound	

Issue	NCDMF	Blue Crab FMP AC	Northern Regional AC	Southern Regional AC	Shellfish/Crustacean AC	Habitat and Water Quality AC	Online Questionnaire*
Diamondback Terrapin	Use the criteria as outlined in this paper for the establishment of Diamondback Terrapin Management Areas (DTMAs)	Use science on locally specific pot funnel design to reduce terrapins and identify individual creeks with terrapin population hot spots that would be closed to potting	Support NCDMF recommendation	Support NCDMF recommendation	No position	No position	Support criteria for designating Diamondback Terrapin Management Areas (59%)
Gear	Option 1a: prohibit taking of crabs with crab dredges	Not adopt any of the recommended management options on crab dredge and leave crab trawl lines as is	Support NCDMF recommendation Option 1a (prohibit taking of crabs with crab dredges)	Support Blue Crab AC recommendation	No position	Recommend accepting NCDMF recommendation 1a	Prohibit taking of crabs with crab dredges and oyster dredges (67%)
sturbing Ge	Option 1d: reduce the bycatch limit from oyster dredges to 10% of the total weight of the combined oyster and crab catch or 100 pounds, whichever is less		Do not support reducing bycatch limits in oyster dredges until landings are examined			Recommend accepting NCDMF recommendation 1d	Reduce the bycatch limit of crabs from oyster dredges to 10% of the total weight of the combined oyster and crab catch or 100 pounds, whichever is less (78%)
Bottom Disturbing	Option 2a: prohibit use of crab trawls in areas where shrimp trawls are already prohibited in the Pamlico, Pungo, and Neuse rivers		Split consensus on support of NCDMF recommendation Option 2a (prohibit use of crab trawls above shrimp trawl lines in Pamlico, Pungo, and Neuse rivers)			Do not recommend accepting NCDMF recommendation 2a	Prohibit use of crab trawls coastwide (53%)

Appendix 1. Summary of online questionnaire results.

Question	Response Choices	Response (number; %)
Do you support the goal to achieve sustainable harvest in the blue crab fishery contained in draft Amendment 3?	Yes	21 (41%)
	No	30 (59%)
	Total	51 (100%)
Rate your level of concern (high, medium, low, none) related to each blue crab issue in draft Amendment 3.		
Achieve sustainable harvest in the	High	14 (82%)
North Carolina blue crab fishery	Medium	2 (12%)
	Low	1 (6%)
	None	0 (0%)
	Total	17
Management options beyond	High	6 (35%)
quantifiable harvest reductions	Medium	7 (41%)
	Low	2 (12%)
	None	2 (12%)
	Total	17
Addressing water quality concerns	High	12 (71%)
impacting the North Carolina blue	Medium	5 (29%)
crab stock	Low	0 (0%)
	None	0 (0%)
	Total	17
Expand spawning sanctuaries to	High	11 (65%)
improve spawning stock biomass	Medium	3 (18%)
	Low	1 (6%)
	None	2 (12%)
	Total	17
Establish a framework to implement	High	7 (41%)
the use of terrapin excluder devices in	Medium	4 (21%)
crab pots	Low	3 (18%)
	None	3 (18%)
	Total	17
Bottom disturbing gear in the blue	High	9 (53%)
crab fishery	Medium	4 (24%)
	Low	1 (6%)
	None	3 (18%)
	Total	17

Question	Response Choices	Response (number; %)
If you support draft Amendment 3, mark	Option A (mature female size limit)	12 (67%)
the box(es) for each type of management measure you recommend for achieving	Option B (limiting the harvest of immature females)*	12 (67%)
sustainable harvest in the North Carolina	Option C (season closure)	9 (50%)
blue crab fishery (see pages 89-109 of the	Option D (adjusting the cull tolerance)*	9 (50%)
amendment).	Option E (revising the adaptive management framework)	8 (44%)
	None	1 (6%)
	No Preference	1 (6%)
	Total	18
If you support draft Amendment 3, mark	Option A (increase cull ring size for crab pots)	7 (39%)
the box(es) for each type of management measure you recommend for management	Option B (increase the number of cull rings in crab pots)*	6 (33%)
measures beyond quantifiable harvest reductions (see pages 110-129 of the	Option C (specify placement of cull rings in crab pots)*	5 (28%)
amendment).	Option D (removing cull ring exemptions for certain areas)	7 (39%)
	Option E (requiring degradable panels in crab pots)	7 (39%)
	Option F (increasing mesh size for crab trawls)	8 (44%)
	Option G (limiting the harvest of sponge crabs)*	18 (100%)
	Option H (minimum size limit for soft and peeler crabs)	11 (61%)
	Option I (impose a limit on the number of crab pots fished)	11 (61%)
	Option J (impose a fishing time restriction for crab pots)	5 (28%)
	None	0 (0%)
	No Preference	0 (0%)
	Total	18
If you support draft Amendment 3, mark the box indicating whether or not you	Yes	16 (89%)
agree with the recommendations for addressing water quality concerns	No	1 (6%)
impacting the North Carolina blue crab stock (see pages 130-144 of the amendment). Do you support the	No Preference	1 (6%)
recommendations for the Marine Fisheries Commission to address water quality	Total	18
concerns impacting the blue crab stock?		

Question	Response Choices	Response (number; %)
If you support draft Amendment 3, mark the box(es) for each type of management	Option A (expand the boundaries of the five existing crab spawning sanctuaries)	7 (39%)
measure you recommend for expanding crab spawning sanctuaries to improve spawning stock biomass (see pages 145-174 of the amendment).	Option B (establish new crab spawning sanctuaries at all inlets without a crab spawning sanctuary)	11 (61%)
	Option C (establish a crab spawning sanctuary to serve as a migration corridor in Croatan Sound)	10 (56%)
	Option D (close crab spawning sanctuaries around inlets from March 1 through October 31 to the use of trawls, pots, and mechanical methods for oysters or clams and to the taking of crabs with any commercial fishing equipment)	9 (50%)
	Option E (close crab spawning sanctuaries around inlets year round to the use of trawls, pots, and mechanical methods for oysters or clams and to the taking of crabs with any commercial fishing equipment)	9 (50%)
	None	2 (11%)
	No Preference	2 (11%)
	Total	18
If you support draft Amendment 3, mark the box indicating whether or not you	Yes	10 (59%)
agree with the recommendation for establishing a framework to implement the	No	5 (29%)
use of terrapin excluder devices in crab pots (see pages 175-220 of the amendment). Do you support the criteria	No Preference	2 (12%)
developed for designating Diamondback Terrapin Management Areas?	Total	17

Question	Response Choices	Response (number; %)
If you support draft Amendment 3, mark the box(es) for each type of management measure you recommend for bottom disturbing gear in the blue crab fishery (see pages 221-235 of the amendment).		
Limit the taking of crabs with dredges	Option A (prohibit the taking of crabs with crab dredges)	9 (50%)
	Option B (prohibit the taking of crabs as incidental bycatch during oyster dredging)	9 (50%)
	Option C (prohibit the taking of crabs with crab dredges and oyster dredges)	12 (67%)
	Option D (reduce the bycatch limit of crabs from oyster dredges to 10% of the total weight of the combined oyster and crab catch or 100 pounds, whichever is less)	14 (78%)
	None	0 (0%)
	No Preference	1 (6%)
	Total	18
Limit the use of crab trawls spatially	Option A (prohibit the use of crab trawls in areas where shrimp trawls are prohibited in the Pamlico, Pungo, and Neuse rivers)	3 (18%)
	Option B (prohibit the use of crab trawls coastwide)	9 (53%)
	None	1 (6%)
	No Preference	5 (29%)
	Total	17

Appendix 2. List of online questionnaire narrative comments received for Amendment 3 to the Blue Crab FMP.

Comments Supporting Amendment 3	Comments Opposing Amendment 3
Blue crabs are an important player in our ecosystem. I enjoy eating blue crabs, and crabbing. In the several years I have been residing in Eastern NC, I have noticed a severe dwindling of the blue crabs. If we do not do something now, there blue crab fishery will disappear.	Enforce the law we have. Use the men and women you have to check so many people with so many hard shell crabs under 5 inches
A lot of the area DMF wants to include in expanding the Crab Sanctuary at Oregon Inlet is where we catch male crabs, not sooks. The area east of the main channel from the current sanctuary boundary line north is area that we fish for male crabs. Closing that area will take one of the few places we catch Jimmies and force us to work areas where we will be catching sooks, which is the exact opposite of the stated goal. Yesterday I had 12 bushels #1, 300 pound #2 and half a bushel of sooks all in the area north of the current sanctuary but included in the proposed expansion. If I couldn't of fished there, it would have been 25 to 30 bushels of sooks. Including that area in the crab sanctuary doesn't accomplish what you're trying to do with regards to mature female crabs. I'm willing to take a DMF biologist or observer crabbing with us in that area if yall want to see what we catch there. It's not sooks. Please consider this before expanding the sanctuary at Oregon Inlet.	Some of my family commercial crabs and for the past few years it hasn't been that great, ok, but not great. Most years losing money or barely making any profit. But by only keeping the larger ones and making sure most females and smaller crabs are not harvested it has improved this year. This has been the best year crabbing in probably 3 or 4 years. But to put more restrictions on a already highly restricted job is hurting the local seafood markets. I prefer eating fresh and not farm raised crap from other countries.
I am a recreational fisherman now, my dad and grandpa were commercial guys, but as the technology has gotten better the rules have stayed the same, my grandpa had a well boat with a Johnson 35 Hp, he caught lots of fish crabs and shrimp with that boat, now look at today's technology with yesterday's rules and it doesn't take a genius to figure out fishing technology gas surpassed the rules that are set forth! I just want my kids and grandchildren to have a chance to catch fish crabs and shellfish!!!	I've fished for a good 45 years and not seen where fishing is any different. Mother nature has more to do with it than any of the fishing, especially recreational fishing as far as being a good season or bad and by the Way the flounder are still plentiful. That was a foolish amendment too
Do not just limit your everyday fisherman, this needs to be on a commercial level as well. Commercial fisherman are decimating the population.	It is a complete falsehood for North Carolina Marine Fisheries to say there is not an abundance of blue crab. If anything there is an overabundance! I have never seen as many blue crab as I have this year. Familie's welfare and livelihoods are at stake here. THIS IS A WAY OF LIFE! LEAVE IT ALONE!!

Comments Supporting Amendment 3

I do not agree with your drafted Amendment but i did answer most of the questions you asked. Yawl wont be happy till this state is catch and release state. From what i seen passed with the new flounder closure. You only care about making sure commercial fisherman have fish to sell and charter boats have enough fish for their customers. F*** the people who grew up here their whole lives living on this coast. Being a disabled paraplegic kayak angler i dont even get f****** started fishimg for flounder till after sept. Once all the f***** tourist are gone. Cause i have no access except when i have help or can find help witch ends up mostly being on the weekends when boat traffic is at it highest and most dangerous for someone who is Disabled. Yawl a f***** joke juss like the NCWRC. Every one of yawl need to be fired cant even vote you crooked people out cause your appointed. First you took stripers, then you took hearring and shad netfishing away from us in town creek. Progress i guess

Comments Opposing Amendment 3

I do not believe the crab is over fished at all I'm only using 200 pots commercially and I'm catching 1000 pounds every three days if there was a shortage of crab that wouldn't be happening. If you want to regulate the fishery of blue crab put a time limit on how long you can crab or day or a pot limit of 500 to 600 pots (per active fisherman) not wife's or sons of fisherman ones that are on the water everyday. To me it's unequal when a man has 4000 pots and fishies a 1000 everyday making two trips a day that's over fishing put a pot limit to the boat or License and enforce it! That my opinion

The main thing to consider is reduction in water quality especially due to runoff from development and agriculture. Unfortunately, the crab fishery suffers on biological, economical, and cultural levels. The most proactive approach to achieving a sustainable harvest would be to address concerns with water quality. Unfortunately, the economic drivers behind development and agriculture essentially steamroll policy to their benefit. I tried to look at each of the recommendations trying to consider the impacts on the harvest and fisherman that it would impact. I am skeptical about the selections I made such as prohibiting the take on sponge crabs due to research conducted at VIMS stating that stress on sponge crabs once caught reduces their chances of survival when released. I truly belief water quality is your main culprit. All these new regulations create tensions amongst the fishing community and law enforcement while ignoring the main contributor to the sustainability in the fishery.

Not sure if there is an issue or just more of the same. Get rid of the gill nets and if you keep reducing the recreational catch you need to drop the price of licenses.

Eliminate harvest of all female crabs until population stabilizes.

Require reporting of lost pots and their location due to storms.

Increase number of pots allowed to holders of recreational gear licenses.

The problem with trying to regulate the coastal fisheries off knowledge collected from a study is its IMPOSSIBLE to calculate a shortage or surplus of any species in the ocean. In addition, the commercial and recreational fishing opportunities you're trying to regulate is costing people time, money and resources and possibly their homes because of your lack of ability to communicate with the people that spend the most time with these species. If you continue with the misinformed regulations you will crush the whole industry on the coast. I'm sure this will never make it to anyone as the people making these laws don't go outdoors and enjoy what God has given us so quit trying to regulate stuff you don't have experience with.

Comments Supporting Amendment 3	Comments Opposing Amendment 3
If you really want to see what is happening to crab stocks, go check the water quality in Pungo Creek after a rain. It rained 3 days ago and now the water is dead from deep up to 5 ft. This has happened 5 times this summer. P.S the farmers upstream just sprayed cotton. Somebody has to start holding people accountable for chemical run off.	Crabbing is a living for me if you close it or limit it it will take the food out of me children's mouths. There is not way possible that the blue crab fishery is in that bad of state to close it, there is more blue crab in the rivers now than I can ever remember. I cannot even drum fish because of blue crab eating the bait before the fish take it. I do not see this as a solution as closing the flounder fishing for everyone was not the way to go about it, there are other ways to regulate crabs a just not allowing keeping of any female blue crab. This amendment is not the way to go about this.
Im not a biologist but Sponge crabs should not be harvested. I know she crab soup and the such. But if	Here in NJ billions of marine larvae were sucked up by the Oyster Creek Nuclea Power plant. Addionally out of state licenses were given to huge teams of commercial crabbers in small Barnegat Bay.
all sponge crabs were left to hatch you would see and explosion of crabs. (If thats	commercial craoocis in sman Dainegat Day.
what your after.)	The plant ceased operation. It will be interesting to see the results the next few
Saw in Maine the lobster men self gov the taking of lobsters with eggs (At least	years. Combine that wit NO out of state commercial licensing, & Barney Bay fishery will be as healthy as before.
when it aired on TV)	insiery will be as healthy as before.
	Look for such solutions in all the fisheries.
They said they in the report that the lobsters were over fished and concerned to the brink of closing it down. But once they stopped taking the egged females the population rebounded. At least that what I remember form the report.	
What I think is one of the biggest issues concerning our crab population is the taking of all or many of the immature female crabs during soft crab season. It is the only place where wildlife is concerned, that all of the immature females are allowed to be taken out of the population. In my opinion that is a problem. I believe there should be some limits concerning the taking of peeler and soft crabs. How can a population of any animal survive if you remove many or all of the immature females?	Like other species yearly harvest is up and down for as long as I can remember. Weather conditions control good or bad seasons far more than any other factor. N.C.M.F.s wants everyone out of the water, then why don't they just say so!
If nothing else, please end harvest of sponge crabs and put reasonable limits on pots- less than 1000.	every Crabber I have spoken to say that there is the best sign of crabs they have seen in years. I can hardly see how a fishery can be overfished from the commercial side when there is less gear in the water in there has ever been.
Also end crab trawling and expand sanctuaries.	please stop calling this sustainable harvest regulation and call it for what it is: regulations to end the commercial fishing industry in NC
I was raised near the Chesapeake bay in Maryland. Eating steamed crabs with family and friends is an important part of our culture. We would never eat female crabs. If females were caught they would be thrown back in the water. We all understand that females are essential to maintaining a healthy population as they lay millions of eggs in a lifetime. Prohibit the catching and sale of female crabs and I bet you wouldn't have to do all the other interventions! If you gave people a choice of doing all the other regulations or simply give up the catching of female crabs, I bet many would choose the latter.	I think the N.C. Fisheries need to be shut down. Everytime you turnaround they are making new laws and regulations which make it harder on commercial fisherman to make a living. My honest opinion people vote all the yankees to a southern controlled board and mostly all of them live on the water or close to the water and get tired of seeing boats in their view. They need to go back up north and mind their own and leave our cultures alone

Comments Supporting Amendment 3

NC DMF recommendation on March closure is VERY geographically biased. From page 99 Table 4.1.8 the Southern region was be most affected. Table 4 March is time of high prices, actual prices we receive are higher than DMF estimates. October and November are times of high production and low prices, it would much easier to achieve harvest reductions during this timeframe.

Terrapin excluders could be attached to the partition portion of the pot. This would probably not affect crab catch as much and only require 2 excluders instead of 4. There was FRG work done by Hart and Crowder looking into this arrangement.

Remember there is a 31% chance the fishery will be sustainable with no action. Also there is no analysis of effect of most recent management measures.

Comments Opposing Amendment 3

In one part of your amendment it says stop harvesting immature females. Then in another part of your amendment says size limit on peelers and Soft Shell Crabs. So are you trying to say we can only harvest male peelers? What about the female? Because the female peeler are only in the peeler stage when they are immature. The question is If there is a decline in our crab harvest have you checked to see if the fishermen are harvesting other products and that could cause a decrease in pounds caught because there is less crabbers crabbing. Have you done a over all study by dividing the pounds of crabs into the number of active crabbers and not by active licenses.

I do not think this is a good idea as there has been a very bountiful amount of blue crab the past couple years after the immature female regulation was set. There is other ways to regulate blue crab as this would destroy a lot of lives.

k

I see nothing in amendment three that prohibits the taking of egg bearing crabs. I have personally observed thousands of egg bearing female crabs going into steamers at fish houses. There is no telling how many millions of baby crabs are killed because of this

I desire a sustainable blue crab population, I just don't agree with all of the proposeles. I do agree that sponge crabs should be released year round, and that would be a good start. I believe the main issue is water quality, yet NCMF never addresses that. Fishermen are easy to lay the blame, while pesticides and herbicides are used upstream without checks and balances.

As a commercial Fisherman I am not for more restrictions it is hard enough to make it already with the price of gear bait etc.going up in cost. The reason for the decline last couple of years is due to people getting out of crabbing to go shrimping. I know of quite a few who had done that therefore your landings are gone be lower. In my opinion you need to do away with sponge crabbing, give them a chance to do their thing. For all the other proposals yall have come up with let it be, its not necessary. Right now crabs are so abundant that we are having lay days and quotas on how many bushels we can bring in for that day because the market is flooded. Please thinks this thru and don't regulate the commercial guy out of a job this what we do. Thank you for allowing us to comment.

Comments Supporting Amendment 3

Comments Opposing Amendment 3

I do not support a March closure. During March we are using a smaller portion of the resource for a greater economic benefit.

During March, we are gathering jimmy crabs to use in our peeler pots. A march closure would have a greater impact on fisherman than just what the amount of crabs landed indicates.

I do not support a 3 inch size limit on peeler crabs. There is no evidence this will benefit the resource in any way, and it would be a culling nightmare.

0.4 % overfishing by Division figures is quite a stretch to be placing restrictions on taking of crabs with landings in the millions of pounds.

In 2017 we were hit with additional adaptive measures to reduce landings, including a lower culling tolerance, changes to cull rings in pots, making immature females illegal to keep.

We are currently seeing some of the highest landings we have had in years. Maybe these measures have worked, and nothing more is needed, if not, take them away.

Appendix 3. Public comment delivered to the division during the open comment period.

Blue Crab Fishery Management Plan Public Comment
Please consider regionally stocking larval-stage Blue Crabs. We don't always have to target fishermen and seafood consumers when trying to rebuild mismanaged stocks. We can use proven management tools that focus on enhancing our fisheries and food supply. Blue Crabs can thrive at historically high levels even as we harvest more if that is our goal. Stocking crabs would also help other species that eat them. This positive solution would benefit everyone and the environment.
I am always happy to answer any questions and/or go into greater detail.
Thank you,
Chris McCaffity
*
Received By: Carol Littrell - 10-1-2019 1:46pm

Full list of recommendations by issue for Blue Crab Amendment 3

Estimated harvest reductions for all management scenario combinations.

A PRESENTATION WILL BE GIVEN AT THE MEETING





MICHAEL S. REGAN
Secretary

STEPHEN W. MURPHEY

Oct. 25, 2019

MEMORANDUM

TO: N.C. Marine Fisheries Commission

FROM: Catherine Blum, Fishery Management Plan and Rulemaking Coordinator

Fisheries Management Section

SUBJECT: Rulemaking Update

Issue

Provide an update to the Marine Fisheries Commission (MFC) on the status of rulemaking and request the MFC vote on the readoption schedule for a portion of its rules.

Findings

- G.S. 150B-21.3A(c) requires each agency to conduct a review of all its rules at least once every 10 years in accordance with a prescribed process of reporting and readoption.
- Once the final determination report becomes effective, G.S. 150B-21.3A(d)(2) requires the Rules Review Commission (RRC) to establish a date by which an agency must readopt its rules after consultation with the agency and consideration of the agency's rulemaking priorities in establishing the readoption date.
- MFC rulemaking priorities include:
 - The MFC has 164 rules subject to readoption in 15A NCAC 18A, a relatively large number.
 - The MFC strives to undertake a single package of rules each year to assist stakeholders with anticipating changes and making informed decisions about continued participation in various fisheries based on those rule changes. The MFC generally meets only once each calendar quarter, providing four opportunities per year to take action on rules.
 - The MFC is currently in the process of readopting another 172 rules in 15A NCAC 03 and there is interplay between the two groups of rules, adding complexity to the readoption process.
 - The MFC has a diverse group of stakeholders affected by the wide variety of issues regulated by these rules. By nature of managing a limited natural resource, the rules are generally controversial.

Action Needed

The MFC is scheduled to vote on the readoption schedule for 164 rules in 15A NCAC 18A.

Recommendation

Staff recommends the MFC approve a four-year schedule to readopt its rules that are found in 15A NCAC 18A by June 30, 2024.

For the list of affected rules, see the handout in the briefing materials entitled "RRC DETERMINATION, PERIODIC RULE REVIEW, January 17, 2019, APO Review: March 24, 2019, Marine Fisheries Commission."

Rulemaking Update

Update on S.L. 2019-198, Legislative Review of Regulatory Crimes

Session Law 2019-198 was approved Aug. 14, 2019; a copy of the law is including in the briefing materials. Section 3 of this law requires all State agencies to submit a list of all crimes defined and in effect (or pending implementation) in their current Administrative Code (MFC rules) to the Joint Legislative Administrative Procedure Oversight Committee no later than Nov. 1, 2019. The report was drafted and submitted to the Department of Environmental Quality Oct. 3, 2019. It contains 143 current MFC rules and six pending implementation for a total of 149 rules, of which 89 are still subject to readoption per G.S. 150B-21.3A.

In addition to the reporting requirements, Section 1 of the law added G.S. 14-4.1, Legislative review of regulatory crimes, to Article 1 of Chapter 14 of the General Statutes. This law requires rules adopted or amended on or after Jan. 1, 2020 pursuant to Article 2A of Chapter 150B of the General Statutes that creates a new criminal offense or otherwise subjects a person to criminal penalties to be subject to G.S. 150B-21.3(b1) regardless of whether the rule received written objections from 10 or more persons pursuant to G.S. 150B-21.3(b2). This means these rules will be subject to legislative review, which has a direct impact on the effective date of amended and readopted MFC rules. The MFC is currently in the process of readopting two of the remaining 89 MFC rules on the list of crimes defined in rules *and* subject to readoption per G.S. 150B-21.3A, with the remainder scheduled for readoption in the next couple of years.

Periodic Review and Expiration of Existing Rules per G.S. 150B-21.3A

Background

Session Law 2013-413, the Regulatory Reform Act of 2013, implemented requirements known as the "Periodic Review and Expiration of Existing Rules." These requirements are codified in a new section of Article 2A of Chapter 150B of the General Statutes in G.S. 150B-21.3A. Under the requirements, each agency is responsible for conducting a review of all its rules at least once every 10 years in accordance with a prescribed process.

The review has two parts. The first is a report phase, which has concluded, followed by the readoption of rules. An evaluation of the rules under the authority of the MFC was undertaken in two lots (see Figure 1.) The MFC had 211 rules in Chapter 03 (Marine Fisheries), of which 172 are subject to readoption, and 164 rules in Chapter 18A (Shellfish Sanitation). The MFC is the body with the authority for the approval steps prescribed in the process.

Rules	2017	2018	2019	2020	2021	2022	2023	2024
Chapter 03 (172 of 211 rules)	Report	41 Rules Readopted	Rule Readoption (131)			6/30/22 deadline		
Chapter 18A (all 164 rules)		Repo	rt	Rule Reado				6/30/24 deadline

Figure 1. Marine Fisheries Commission schedule to comply with G.S. 150B-21.3A, Periodic Review and Expiration of Existing Rules.

15A NCAC 03 Rule Readoption Update

At its August 2019 meeting, the MFC approved Notice of Text for Rulemaking to begin the readoption process for the second package of rules in 15A NCAC 03. A handout showing the steps in the MFC's 2019-2020 annual rulemaking cycle is included in the briefing materials. This package includes two proposed rules for readoption: 15A NCAC 03M .0509, Tarpon, and 15A NCAC 03O .0108, License and Commercial Fishing Vessel Registration Transfers. The public comment period is Oct. 16 to Dec. 2 and a public hearing was held Oct. 23. Staff will present the input received from the public to the MFC at its February 2020 business meeting when the MFC is scheduled to vote on approval of the permanent rules. Then, following review and consideration of approval by the RRC, the proposed effective date of the rules is subject to legislative review per S.L. 2019-198 and G.S. 14-4.1.

MFC Vote on 15A NCAC 18A Rule Readoption Schedule

The process of rule readoption for rules in 15A NCAC 18A is scheduled to begin at the MFC's May 2020 business meeting. Given the large number of rules subject to readoption, the wide variety of issues regulated by these rules, and the generally controversial nature of the rules, this will be the first of several years proposed to readopt rules. In preparation for the May meeting, staff prepared a proposed readoption schedule for these rules: staff recommends the MFC approve a four-year schedule to readopt its rules that are found in 15A NCAC 18A by June 30, 2024. If approved, the proposed schedule will be submitted to the RRC for approval at its December 2019 or January 2020 meeting. Once the readoption schedule is approved by the RRC, the MFC can take action to begin the rulemaking process at its May 2020 business meeting.

RRC DETERMINATION PERIODIC RULE REVIEW

January 17, 2019 APO Review: March 24, 2019

Marine Fisheries Commission

Total: 164

RRC Determination: Necessary with substantive public interest

Rule	Determination
15A NCAC 18A .0134	Necessary with substantive public interest
15A NCAC 18A .0135	Necessary with substantive public interest
15A NCAC 18A .0136	Necessary with substantive public interest
15A NCAC 18A .0137	Necessary with substantive public interest
15A NCAC 18A .0138	Necessary with substantive public interest
15A NCAC 18A .0139	Necessary with substantive public interest
15A NCAC 18A .0140	Necessary with substantive public interest
15A NCAC 18A .0141	Necessary with substantive public interest
15A NCAC 18A .0142	Necessary with substantive public interest
15A NCAC 18A .0143	Necessary with substantive public interest
15A NCAC 18A .0144	Necessary with substantive public interest
15A NCAC 18A .0145	Necessary with substantive public interest
15A NCAC 18A .0146	Necessary with substantive public interest
15A NCAC 18A .0147	Necessary with substantive public interest
15A NCAC 18A .0148	Necessary with substantive public interest
15A NCAC 18A .0149	Necessary with substantive public interest
15A NCAC 18A .0150	Necessary with substantive public interest
15A NCAC 18A .0151	Necessary with substantive public interest
15A NCAC 18A .0152	Necessary with substantive public interest
15A NCAC 18A .0153	Necessary with substantive public interest
15A NCAC 18A .0154	Necessary with substantive public interest
15A NCAC 18A .0155	Necessary with substantive public interest
15A NCAC 18A .0156	Necessary with substantive public interest
15A NCAC 18A .0157	Necessary with substantive public interest
15A NCAC 18A .0158	Necessary with substantive public interest
15A NCAC 18A .0159	Necessary with substantive public interest
15A NCAC 18A .0160	Necessary with substantive public interest
15A NCAC 18A .0161	Necessary with substantive public interest
15A NCAC 18A .0162	Necessary with substantive public interest
15A NCAC 18A .0163	Necessary with substantive public interest
15A NCAC 18A .0164	Necessary with substantive public interest
15A NCAC 18A .0165	Necessary with substantive public interest
15A NCAC 18A .0166	Necessary with substantive public interest

<u>15A</u> <u>NCAC</u> <u>18A</u>	.0167	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	<u>.0168</u>	Necessary with substantive public interest
15A NCAC 18A	.0169	Necessary with substantive public interest
15A NCAC 18A	.0170	Necessary with substantive public interest
15A NCAC 18A	.0171	Necessary with substantive public interest
15A NCAC 18A	.0172	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0173	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0174	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0175	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0176	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0177	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0178	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0179	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0180	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0181	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0182	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0183	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0184	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	<u>.0185</u>	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	<u>.0186</u>	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0187	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0188	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0189	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0190	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0191	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0301	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0302	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0303	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	<u>.0304</u>	Necessary with substantive public interest
15A NCAC 18A	.0305	Necessary with substantive public interest
15A NCAC 18A	.0401	Necessary with substantive public interest
15A NCAC 18A	.0402	Necessary with substantive public interest
15A NCAC 18A	.0403	Necessary with substantive public interest
15A NCAC 18A	.0404	Necessary with substantive public interest
15A NCAC 18A	<u>.0405</u>	Necessary with substantive public interest
15A NCAC 18A	<u>.0406</u>	Necessary with substantive public interest
15A NCAC 18A	.0407	Necessary with substantive public interest
15A NCAC 18A	.0408	Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A	.0413	Necessary with substantive public interest
15A NCAC 18A	.0414	Necessary with substantive public interest

<u>15A</u> <u>NCAC</u> <u>18A</u>	.0415	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0416	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	<u>.0417</u>	Necessary with substantive public interest
15A NCAC 18A	.0418	Necessary with substantive public interest
15A NCAC 18A	.0419	Necessary with substantive public interest
15A NCAC 18A	.0420	Necessary with substantive public interest
15A NCAC 18A	.0421	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0422	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0423	Necessary with substantive public interest
15A NCAC 18A	.0424	Necessary with substantive public interest
15A NCAC 18A	.0425	Necessary with substantive public interest
15A NCAC 18A	.0426	Necessary with substantive public interest
15A NCAC 18A	.0427	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0428	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0429	Necessary with substantive public interest
15A NCAC 18A	.0430	Necessary with substantive public interest
15A NCAC 18A	.0431	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0432	Necessary with substantive public interest
15A NCAC 18A	.0433	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0434	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0435	Necessary with substantive public interest
15A NCAC 18A	.0436	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0501	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0502	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0503	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0504	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0601	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0602	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0603	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0604	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0605	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0606	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0607	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0608	Necessary with substantive public interest
<u>15A</u> NCAC <u>18A</u>	.0609	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0610	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0611	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0612	Necessary with substantive public interest
15A NCAC 18A	<u>.0613</u>	Necessary with substantive public interest
15A NCAC 18A	.0614	Necessary with substantive public interest
15A NCAC 18A	<u>.0615</u>	Necessary with substantive public interest
15A NCAC 18A	.0616	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0617	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0618	Necessary with substantive public interest

<u>15A</u> <u>NCAC</u> <u>18A</u>	.0619	Necessary with substantive public interest
<u>15A</u> NCAC <u>18A</u>	.0620	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0621	Necessary with substantive public interest
15A NCAC 18A	.0701	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0702	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0703	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0704	Necessary with substantive public interest
<u>15A</u> NCAC <u>18A</u>	.0705	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0706	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0707	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0708	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0709	Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	<u>.0710</u>	Necessary with substantive public interest
15A NCAC 18A	<u>.0711</u>	Necessary with substantive public interest
15A NCAC 18A	.0712	Necessary with substantive public interest
15A NCAC 18A	.0713	Necessary with substantive public interest
15A NCAC 18A	.0801	Necessary with substantive public interest
15A NCAC 18A	.0802	Necessary with substantive public interest
15A NCAC 18A	.0803	Necessary with substantive public interest
15A NCAC 18A	.0804	Necessary with substantive public interest
15A NCAC 18A	.0805	Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A	.0901	Necessary with substantive public interest
15A NCAC 18A	.0902	Necessary with substantive public interest
15A NCAC 18A	.0903	Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A	.0905	Necessary with substantive public interest
	.0906	Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
<u>15A</u> <u>NCAC</u> <u>18A</u>	.0908	Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A	·	Necessary with substantive public interest
15A NCAC 18A	.0911	Necessary with substantive public interest
15A NCAC 18A	.0912	Necessary with substantive public interest
15A NCAC 18A	<u>.0913</u>	Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A	.3401	Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A	.3404	Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A		Necessary with substantive public interest
15A NCAC 18A	.3407	Necessary with substantive public interest

GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2019

SESSION LAW 2019-198 SENATE BILL 584

AN ACT TO MAKE CHANGES TO FUTURE CRIMINAL LAWS RELATED TO REGULATORY OFFENSES, TO EXTEND THE TIME FOR LOCAL GOVERNMENTS TO REPORT ORDINANCES WITH CRIMINAL PENALTIES, AND TO REQUIRE THE GENERAL STATUTES COMMISSION TO STUDY CURRENT OFFENSES NOT ENACTED BY STATUTE.

The General Assembly of North Carolina enacts:

SECTION 1. Article 1 of Chapter 14 of the General Statutes is amended by adding a new section to read:

"§ 14-4.1. Legislative review of regulatory crimes.

- (a) Any rule adopted or amended pursuant to Article 2A of Chapter 150B of the General Statutes that creates a new criminal offense or otherwise subjects a person to criminal penalties is subject to G.S. 150B-21.3(b1) regardless of whether the rule received written objections from 10 or more persons pursuant to G.S. 150B-21.3(b2).
 - (b) This section applies to rules adopted on or after January 1, 2020."

 SECTION 2. Effective January 1, 2020, G.S. 150B-21.3(b1) reads as rewritten:
- "(b1) Delayed Effective Dates. If-Except as provided in G.S. 14-4.1, if the Commission received written objections to the rule in accordance with subsection (b2) of this section, the rule becomes effective on the earlier of the thirty-first legislative day or the day of adjournment of the next regular session of the General Assembly that begins at least 25 days after the date the Commission approved the rule, unless a different effective date applies under this section. If a bill that specifically disapproves the rule is introduced in either house of the General Assembly before the thirty-first legislative day of that session, the rule becomes effective on the earlier of either the day an unfavorable final action is taken on the bill or the day that session of the General Assembly adjourns without ratifying a bill that specifically disapproves the rule. If the agency adopting the rule specifies a later effective date than the date that would otherwise apply under this subsection, the later date applies. A permanent rule that is not approved by the Commission or that is specifically disapproved by a bill enacted into law before it becomes effective does not become effective.

A bill specifically disapproves a rule if it contains a provision that refers to the rule by appropriate North Carolina Administrative Code citation and states that the rule is disapproved. Notwithstanding any rule of either house of the General Assembly, any member of the General Assembly may introduce a bill during the first 30 legislative days of any regular session to disapprove a rule that has been approved by the Commission and that either has not become effective or has become effective by executive order under subsection (c) of this section."

SECTION 3. Section 1 of S.L. 2018-69 reads as rewritten:

"SECTION 1. All State agencies, boards, and commissions that have the power to define conduct as a crime in the North Carolina Administrative Code shall create a list of all crimes defined by the agency, board, or commission that are in effect or pending implementation. Each agency, board, or commission shall submit the list to the Joint Legislative Administrative



Procedure Oversight Committee and the Joint Legislative Oversight Committee on Justice and Public Safety no later than December 1, 2018. November 1, 2019."

SECTION 4. Section 3 of S.L. 2018-69 reads as rewritten:

"SECTION 3. Every county, city, town, or metropolitan sewerage district county with a population of 20,000 or more according to the last federal decennial census, city or town with a population of 1,000 or more according to the last federal decennial census, or metropolitan sewerage district that has enacted an ordinance punishable pursuant to G.S. 14-4(a) shall create a list of applicable ordinances with a description of the conduct subject to criminal punishment in each ordinance. Each county, city, town, or metropolitan sewerage district shall submit the list to the Joint Legislative Administrative Procedure Oversight Committee and the Joint Legislative Oversight Committee on Justice and Public Safety no later than December 1, 2018. November 1, 2019."

SECTION 5. No ordinance adopted on or after January 1, 2020, and before January 1, 2022, by a county, city, or town that was required to report pursuant to Section 3 of S.L. 2018-69, as amended by Section 4 of this act, shall be subject to the criminal penalty provided by G.S. 14-4 unless that county, city, or town submitted the required report on or before November 1, 2019. Ordinances regulated by this section may still be subject to civil penalties as authorized by G.S. 153A-123 or G.S. 160A-175.

SECTION 6. The General Statutes Commission shall study the reports received pursuant to S.L. 2018-69, as amended by Section 3 and Section 4 of this act, and make recommendations regarding whether any conduct currently criminalized either (i) by an ordinance of a county, city, town, or metropolitan sewerage district or (ii) in the North Carolina Administrative Code by an agency, board, or commission, should have criminal penalties provided by a generally applicable State law. The Commission shall report to the 2020 Regular Session of the 2019 General Assembly and to the Joint Oversight Committee on General Government on or before May 1, 2020.

SECTION 7. G.S. 93A-8 reads as rewritten:

"§ 93A-8. Penalty for violation of Chapter.

Any person violating the provisions of this Chapter G.S. 93A-1 shall upon conviction thereof be deemed guilty of a Class 1 misdemeanor."

SECTION 8. Section 7 becomes effective December 1, 2019, and applies to offenses committed on or after that date. The remainder of this act is effective when it becomes law.

In the General Assembly read three times and ratified this the 7th day of August, 2019.

- s/ Philip E. Berger President Pro Tempore of the Senate
- s/ Tim Moore Speaker of the House of Representatives
- s/ Roy Cooper Governor

Approved 5:12 p.m. this 14th day of August, 2019

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N.C. Marine Fisheries Commission 2019-2020 Annual Rulemaking Cycle

November 2019

Time of Year	Action
April-July 2019	Fiscal analysis of rules prepared by DMF staff and
	approved by Office of State Budget and Management
August 2019	MFC approved Notice of Text for Rulemaking
Oct. 1, 2019	Publication of proposed rules in the North Carolina
	Register
Oct. 16-Dec. 2, 2019	Public comment period held
Wednesday, Oct. 23,	Public hearing held: 6 p.m., Division of Marine
2019	Fisheries, 5285 Highway 70 West, Morehead City, NC
	28557
February 2020	MFC considers approval of permanent rules
April 2020	Rules reviewed by Office of Administrative Hearings
	Rules Review Commission.
TBD	Proposed effective date of rules is subject to legislative
	review per S.L. 2019-198 and G.S. 14-4.1.





MICHAEL S. REGAN

STEPHEN W. MURPHEY

Director

Oct. 25, 2019

MEMORANDUM

TO: N.C. Marine Fisheries Commission

FROM: Kathy Rawls, Fisheries Management Section Chief

SUBJECT: Temporary Rule Suspension

Issue

In accordance with the North Carolina Division of Marine Fisheries Resource Management Policy Number 2014-2, Temporary Rule Suspension, the North Carolina Marine Fisheries Commission (NCMFC) will vote on any new rule suspensions that have occurred since the last meeting of the commission.

Findings

No new rule suspensions have occurred since the August 2019 meeting.

Action Needed

For informational purposes only, no action is needed at this time.

Overview

In accordance with policy, the division will report current rule suspensions previously approved by the commission as non-action, items. The current rule suspensions previously approved by the commission are as follows:

NCMFC Rule 15A NCAC 03L .0103 (a)(1) Prohibited Nets, Mesh Lengths and Areas

Continued suspension of portions of this rule for an indefinite period. Suspension of this rule allows the division to adjust trawl net minimum mesh size requirements in accordance with the May 2018 Revision to Amendment 1 to the North Carolina Shrimp Fishery Management Plan. This suspension was implemented in proclamation SH-3-2019.

NCMFC 15A NCAC 03M .0516 Cobia

Continued suspension of this rule for an indefinite period. This continued suspension allows the division to manage the commercial and recreational cobia fisheries in accordance with management actions taken by the commission and in accordance with the Atlantic States Marine Fisheries Commission's Interstate Cobia Fishery Management Plan. This suspension was continued in Proclamation FF-10-2019.

NCMFC 15A NCAC 03J .0301 Pots

Continued suspension of portions of this rule for an indefinite period. This continued suspension allows the division to implement the crab pot escape ring requirements adopted by the commission in the May 2016 Revision to Amendment 2 of the North Carolina Blue Crab Fishery Management Plan. This suspension was implemented in Proclamation M-11-2016.

NCMFC Rule 15A NCAC 03L .0201 Crab Harvest Restrictions & 03L .203 Crab Dredging

Continued suspension of portions of these rules for an indefinite period. This continued suspension allows the division to implement the blue crab harvest restrictions adopted by the commission in the May 2016 Revision to Amendment 2 of the North Carolina Blue Crab Fishery Management Plan. These suspensions were implemented in Proclamation M-11-2016.

NCMFC Rule 15A NCAC 03J .0501 Definitions and Standards for Pound Nets and Pound Net Sets

Continued suspension of portions of this rule for an indefinite period. Continued suspension of portions of this rule allows the division to increase the minimum mesh size of escape panels for flounder pound nets in accordance with Supplement A to Amendment 1 of the North Carolina Southern Flounder Fishery Management Plan. This suspension was implemented in Proclamation M-34-2015.

NCMFC Rule 15A NCAC 03M .0519 Shad & 03Q .0107 Special Regulations: Joint Waters

Continued suspension of portions of these rules for an indefinite period. Continued suspension of portions of these rules allows the division to change the season and creel limit for American shad under the management framework of the North Carolina American Shad Sustainable Fishery Plan. These suspensions were continued in Proclamation FF-12-2019.

SUPPLEMENTAL MATERIALS

Table 4.1.14. Estimated harvest reductions for all management scenario combinations. Gray boxes indicate the harvest reduction needed for varying probabilities of achieving sustainable harvest. Options 1 through 5 do not meet statutory requirements for achieving sustainable harvest. Beginning with option 6, all remaining options meet or exceed the minimum statutory requirement for achieving sustainable harvest. *Examples of different season closures for options 12 and 18 can be found in Table 4.1.15.

Management Option	Management Measure	2011-2016 Average Harvest Reduction (%)	2016 Harvest Reduction (%)	Management Option	Management Measure	2011-2016 Average Harvest Reduction (%)	2016 Harvest Reduction (%)
Options 1-5: E	Oo not meet required 50% probability of er	nding overfished	I	13	6.5" Mature Female Maximum Size	5.4	4.3
1	Prohibit Immature Female Harvest	1.1	0.5				
2	5" Mature Female Minimum Size	0.9	0.9	14	6.75" Mature Female Maximum Size December Closure	4.3	4.4
3	5" Mature Female Minimum Size	2.0	1.4	15	5" Mature Female Minimum Size	5.0	4.6
	Prohibit Immature Female Harvest				Reducing Cull Tolerance to Zero		
4	6.75" Mature Female Maximum Size	2.3	1.5	16	5.25" Mature Female Minimum Size Prohibit Immature Female Harvest	4.1	4.6
5	6.75" Mature Female Maximum Size Prohibit Immature Female Harvest	3.4	2.0	17	6.5" Mature Female Maximum Size Prohibit Immature Female Harvest	6.4	4.8
Reduction with	h a 50% probability of ending overfished		2.2				
6	December Closure	2.0	2.9	18*	6.75" Mature Female Maximum Size Prohibit Immature Female Harvest	5.3	4.8
7	Prohibit Immature Female Harvest December Closure	3.1	3.4		December Closure		
8	Reducing Cull Tolerance to Zero	4.1	3.7	19	5" Mature Female Minimum Size Prohibit Immature Female Harvest Reducing Cull Tolerance to Zero	5.9	4.9
Reduction with	h a 67% probability of ending overfished		3.8				
9	5" Mature Female Minimum Size December Closure	2.9	3.8	20	6.75" Mature Female Maximum Size Reducing Cull Tolerance to Zero	6.3	5.1
10	Prohibit Immature Female Harvest Reducing Cull Tolerance to Zero	5.1	4.1	21	6.75" Mature Female Maximum Size Prohibit Immature Female Harvest Reducing Cull Tolerance to Zero	7.2	5.5
11	5.25" Mature Female Minimum Size	3.0	4.1	Reduction with	n a 90% probability of ending overfished		5.9
12*	5" Mature Female Minimum Size Prohibit Immature Female Harvest December Closure	4.0	4.3	22	Reducing Cull Tolerance to Zero December Closure	6.0	6.5

Table 4.1.14. continued...

Management Option	Management Measure	2011-2016 Average Harvest Reduction (%)	2016 Harvest Reduction (%)	Management Option	Management Measure	2011-2016 Average Harvest Reduction (%)	2016 Harvest Reduction (%)
23	Prohibit Immature Female Harvest	7.0	6.9	33	5.25" Mature Female Minimum Size	7.9	8.0
	December Closure				Prohibit Immature Female Harvest		
	Reducing Cull Tolerance to Zero				Reducing Cull Tolerance to Zero		
24	5.25" Mature Female Minimum Size	4.9	6.9	34	6.5" Mature Female Maximum Size	10.2	8.2
	December Closure				Prohibit Immature Female Harvest		
					Reducing Cull Tolerance to Zero		
25	6.5" Mature Female Maximum Size	7.3	7.1				
	December Closure			35	6.75" Mature Female Maximum Size	9.1	8.3
					Prohibit Immature Female Harvest		
26	5" Mature Female Minimum Size	6.9	7.3		Reducing Cull Tolerance to Zero		
	December Closure Reducing Cull Tolerance to Zero				December Closure		
	C .			Reduction with	h a 96% probability of ending overfished		9.3
27	5.25" Mature Female Minimum Size	6.0	7.3	36	5.25" Mature Female Minimum Size	8.8	10.3
	Prohibit Immature Female Harvest				December Closure		
	December Closure				Reducing Cull Tolerance to Zero		
28	6.5" Mature Female Maximum Size	8.3	7.5	37	6.5" Mature Female Maximum Size	11.1	10.5
	Prohibit Immature Female Harvest				December Closure		
	December Closure				Reducing Cull Tolerance to Zero		
29	5.25" Mature Female Minimum Size	7.0	7.6	38	5.25" Mature Female Minimum Size	9.7	10.7
	Reducing Cull Tolerance to Zero				Prohibit Immature Female Harvest		
					Reducing Cull Tolerance to Zero		
30	5" Mature Female Minimum Size	7.8	7.7		December Closure		
	Prohibit Immature Female Harvest						
	Reducing Cull Tolerance to Zero			39	6.5" Mature Female Maximum Size	12.0	10.9
	December Closure				Prohibit Immature Female Harvest		
31	6.5" Mature Female Maximum Size	9.3	7.8		Reducing Cull Tolerance to Zero		
	Reducing Cull Tolerance to Zero				December Closure		
32	6.75" Mature Female Maximum Size	8.2	7.9				
	December Closure						
	Reducing Cull Tolerance to Zero						

Table 4.1.15. Estimated harvest reductions for management options 12 and 18 from Table 4.1.14 with various closure periods requested by the Blue Crab FMP AC.

Manageme nt Option	Management Measure	2011- 2016 Average Harvest Reductio n (%)	2016 Harvest Reductio n (%)	Managemen t Option	Management Measure	2011- 2016 Average Harvest Reductio n (%)	2016 Harvest Reductio n (%)
12.1	Does not meet required 50% probabilit 5" Mature Female Minimum Size Prohibit Immature Female Harvest January 15 - February 7 Closure	y of ending ov 2.2	1.5	18.1	Does not meet required 50% probability of ending overfi 6.75" Mature Female Maximum Size Prohibit Immature Female Harvest January 15 - February 7 Closure	3.5	2.1
Reduction wi	th a 50% probability of ending		2.2	Reduction wit	th a 50% probability of ending overfished		2.2
12.2	5" Mature Female Minimum Size Prohibit Immature Female Harvest January 1 - January 31 Closure	2.4	2.3	18.2	6.75" Mature Female Maximum Size Prohibit Immature Female Harvest January 1 - January 31 Closure	3.7	2.9
12.3	5" Mature Female Minimum Size Prohibit Immature Female Harvest January 1 - February 28/29 Closure	2.9	2.7	18.3 (BCAC)	Prohibit Immature Female Harvest Jan. 1 - Jan. 31 Closure North of Hwy 58 Bridge March 1 - March 15 Closure South of Hwy 58 Bridge 6.75" Mature Female Max. Size North of Hwy 58 Bridge	3.7	3.2
12.4	5" Mature Female Minimum Size Prohibit Immature Female Harvest March 16 - March 31 Closure	3.4	3.7	18.4	Prohibit Immature Female Harvest Jan. 1 - Jan. 31 Closure North of Hwy 58 Bridge Feb. 20 - March 15 Closure South of Hwy 58 Bridge	3.8	3.2
Reduction wi overfished	th a 67% probability of ending		3.8		6.75" Mature Female Max. Size North of Hwy 58 Bridge		
12.5	5" Mature Female Minimum Size Prohibit Immature Female Harvest March 1 - March 15 Closure 5" Mature Female Minimum Size	3.2	4.0	18.5	6.75" Mature Female Maximum Size Prohibit Immature Female Harvest January 1 - February 28/29 Closure	4.2	3.3
12.0	Prohibit Immature Female Harvest	7.1	у.т	Reduction wit	th a 67% probability of ending overfished		3.8
12.7	March 1 - March 24 Closure 5" Mature Female Minimum Size Prohibit Immature Female Harvest March 8 - March 31 Closure	4.2	5.6	18.6	6.75" Mature Female Maximum Size Prohibit Immature Female Harvest March 16 - March 31 Closure 6.75" Mature Female Maximum Size	4.7	4.3
Reduction wi	th a 90% probability of ending		5.9		Prohibit Immature Female Harvest March 1 - March 15 Closure		
12.8	5" Mature Female Minimum Size Prohibit Immature Female Harvest	4.6	6.3	Reduction wit	th a 90% probability of ending overfished		5.9
	March 1 - March 31 Closure			18.8	6.75" Mature Female Maximum Size Prohibit Immature Female Harvest March 1 - March 24 Closure	5.4	6.0
				18.9	6.75" Mature Female Maximum Size Prohibit Immature Female Harvest March 8 - March 31 Closure	5.5	6.2
				18.10	6.75" Mature Female Maximum Size Prohibit Immature Female Harvest March 1 - March 31 Closure	5.9	6.9