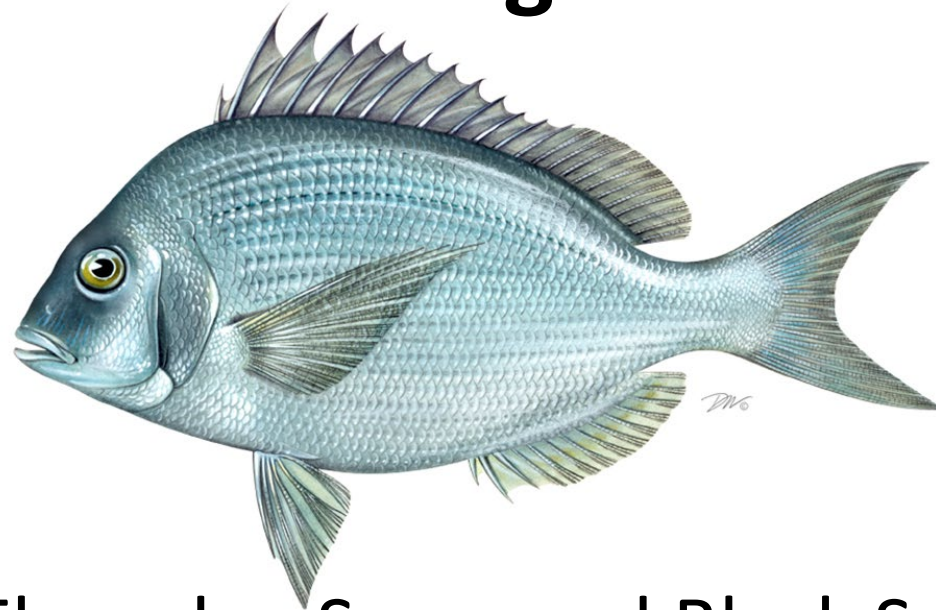




# 2019 Scup Recreational Measures for Northern Region States



Summer Flounder, Scup, and Black Sea Bass  
Management Board  
February 5, 2019

# Outline



- Background
- Technical Committee Review of Scup Northern Region Proposed Measures
  - Questions
- Board discussion and action
  - Consider either A) Approve 2019 Scup Measures or B) Approve Methodologies used to develop 2019 Scup Measures

# Background



- December 2018: Board voted to extend ad hoc regional management for Scup
  - Northern Region state (MA-NY) requested analysis on increasing for-hire bag limit and bonus season changes
- 2018 & 2019 RHLs = 7.37 million pounds
- 2018 Preliminary harvest through wave 5 (September/October) was 5.61 million pounds
  - ~30% liberalization based on 2018 projected harvest

# 2018 NJ- NC Measures



State	Size Limit	Bag Limit	Season
New Jersey	9	50	Jan 1- Dec 31
Delaware	8	50	Jan 1- Dec 31
Maryland	8	50	Jan 1- Dec 31
Virginia	8	30	Jan 1- Dec 31
North Carolina NoCH	8	50	Jan 1- Dec 31

- Combined: 4.9% of Projected 2018 Coastwide Harvest
  - Nearly all attributed to NJ
- No proposals submitted
  - Most states measures rollover; none indicated interest to change measures

# Call Summary



- TC met via conference call on January 29<sup>th</sup>
- Two types of analysis presented
  - 1) Additive Approach
  - 2) Generalized Additive Model (GAM)
- Both methods evaluated the impact of increasing bag limit and season length on projected harvest
  - 6\* scenarios were evaluated



# Methods Slide

- Additive Approach
  - In line with standard approach we've been using
  - Generates weighted frequency distributions of catch/angler by state, wave, mode from MRIP data
  - Uses this info and assumptions about how harvest increases in decaying fashion as bag increases
  - For season, used assumptions about low harvest in other waves (Wave 2 when data available and Wave 6) and applies it to new opened waves

# Methods Slide

- GAM Approach
  - Modeling approach, trained by historical MRIP data
  - GAM allows for inclusion of non-linear and linear effects on harvest

$$\log(H) = \beta_0 + \beta_4(\text{State}) + \beta_1(\text{Year}) + \beta_2(\text{Region}) + \beta_5(\text{Fishing.Mode}) + \beta_3(\text{RHL}) + f_2(\text{MinLen}) + f_1(\text{Wave}) + f_3(\text{Season}) + f_4(\text{Bag})$$

- Allows for consistent treatment and incorporation of uncertainty in to estimation procedure

# Methods continued: 6 Options



1. ↑ For-hire sector bag limit to 50 fish for the current bonus season (Wv 3 for MA & Wv 5 for RI-NY)
2. ↑ Bag limit to 50 fish for all fishing modes for bonus season
3. ↑ Bag limit to 50 fish for all fishing modes & for status quo fishing season (May 1-Dec 31)
4. \*365 Season at 30 fish with 45 fish bag limit during the bonus season for the for-hire sector
5. Status quo season length, for-hire ↑ 50 fish bag limit in 2 separate bonus season waves ( Wv 3 and Wv 5)
6. Status quo season length, for-hire ↑ 50 fish bag limit bonus season is 2 consecutive waves (Wvs 3-4 for MA; Wvs 5-6 for RI-NY)
7. \*\*For-hire bonus season bag limit ↑ 50 fish and open Wvs 1 & 2 for all modes under current 30 fish bag limit



# Results



- Additive Approach
  - Coastwide Harvest ↑ ranges from .27% (Option #1) - 3% (Option 3)
- GAM Approach
  - Coastwide Harvest ↑ ranges from .4% (Option #1) - 200% (Option 3)
- Comparison of two Approaches
  - High uncertainty in projected harvest when bag limit is increased for all fishing modes (options #2 & #3)
  - Differing Approaches: Additive approach leans on MRIP data more; GAM accounts for uncertainty to a degree

# TC Recommendations



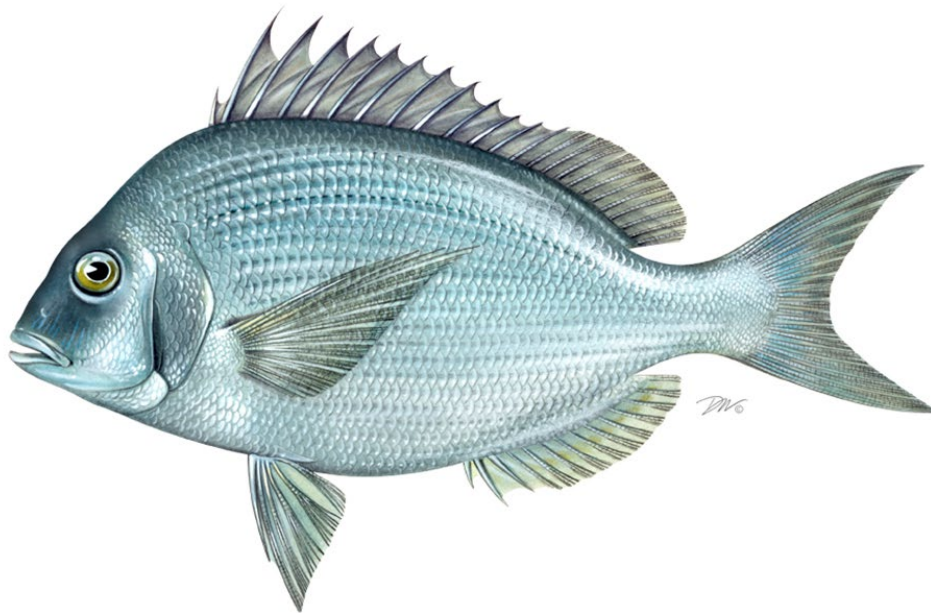
- Board should only consider options **1 and 4-7** that extend the overall season, and adjust the bag limit (from 45 to 50 fish) and bonus season length (adding an additional two months/wave) for the for-hire sector
- Considerations
  - Extent of changing regulations
  - Still using CHTS data until Operational Assessment complete
  - Resource is robust, current high RHL, and trip limits are generally not met
  - Similar data challenges as Black Sea Bass, but very different situations

# TC Recommendations cont'd



- If new regulations are considered outside of those analyzed so far, TC recommends the additive approach as the preferred methodology
- TC hopes to move towards using GAM approach soon
  - Similarities to contract work for MAFMC on Fluke
  - Hope to use for all three species
  - Potential Meeting/Workshop later this year for use

Questions?



# Board Discussion



- Action for Consideration
  - A) Approve 2019 Scup Measures or
  - B) Approve Methodologies used to develop 2019 Scup Measures



# **Technical Committee Recommendations for 2019 Black Sea Bass Recreational Measures**

Caitlin Starks (ASMFC) and Jason McNamee (RI DEM)  
Atlantic States Marine Fisheries Commission

February 5, 2019

# Presentation Outline



1. Background
2. TC Analysis of Harvest Estimates
3. Harvest Projections and RHL
  - TC recommendations for 2019 recreational measures
4. VA and NC proposals
  - TC recommendations
5. Next Steps
6. Questions

# Background



- Addendum XXX recreational measures expired in 2018
- 2019 measures will be set through specifications process under Addendum XXXII
- The 2019 RHL is 3.66 million pounds
- NOAA opened black sea bass recreational fishery in federal waters with 12.5” minimum size and 15 fish possession limit, February 1-28, 2019
- VA and NC submitted proposals to adjust measures later in 2019 season to account for February harvest



# TC Analysis of Harvest Estimates



- The Technical Committee (TC) analyzed 2018 MRIP harvest estimates
  - Back-calibrated to be consistent with those used in the assessment and to derive the RHL
- 2018 Wave 6 harvest projected using ratio of total harvest in Waves 1-5 to total harvest in Wave 6 across most recent three years (2015-2017)
- Smoothed values were used for previously identified outliers (NY Wv 6, 2016 & NJ Wv 3, 2017)

# Harvest Projections and RHL



	2018	2019	% Change from 2018 to 2019 RHL
RHL	3.66 million lbs	3.66 million lbs	0%
PROJECTED HARVEST	3.92 million lbs	--	+7%



- **The TC recommends maintaining status quo recreational management measures in 2019**
- TC expressed concern about using back-calibrated MRIP estimates
- Regulatory changes based on back-calibrated estimates may not be appropriate or result in the intended effect at state level
- TC concerned with using current RHL of 3.66 million pounds based on past assessment that doesn't incorporate important changes to the stock (strong 2015 cohort and new MRIP estimates)
- Uncertainty in 2018 harvest projection likely overlaps significantly with harvest needed to achieve RHL
- Stock status for Black Sea Bass is robust, therefore low risk of causing damage to the stock by remaining at status quo

# 2018 BSB Recreational Measures



State		Minimum Size	Possession Limit	Open Season
ME		13"	10 fish	May 19–Sep 21; Oct 18–Dec 31
NH		13"	10 fish	Jan 1–Dec 31
MA		15"	5 fish	May 19–Sep 12
RI		15"	3 fish	Jun 24–Aug 31
			7 fish	Sep 1–Dec 31
CT	Private/Shore	15"	5 fish	May 19–Dec 31
	Authorized Party/Charter	15"	5 fish	May 19–Aug 31
7 fish			Sep 1–Dec 31	
NY		15"	3 fish	Jun 23–Aug 31
			7 fish	Sep 1–Dec 31
NJ		12.5"	10 fish	May 15–Jun 22
		12.5"	2 fish	Jul 1–Aug 31
		12.5"	10 fish	Oct 8–Oct 31
		13"	15 fish	Nov 1–Dec 31
DE, MD, VA, & NC (N. of Hatteras)		12.5"	15 fish	May 15–Dec 31

# VA Proposal for February Fishery



- VMRC proposes 2 options to account for harvest during the February black sea bass fishery

Option	Adjustment to Measures	Harvest Savings (lbs)
1	Close 14 days in wave 3	6,802
2	Close 14 days in wave 5	6,755

- Both options would account for landings that occurred in February 2018 (6,459 pounds).
- **The TC found the proposal technically sound and recommends approval**

# NC Proposal for February Fishery



- NC DMF proposes 2 options to account for harvest during the February fishery

Option	Adjustment to Measures	Harvest Savings (lbs)
1	Close 1 day in Wave 3 (May 15)	84
2	Close two days in Wave 3 (May 15 & 16)	168

- Both options would account for landings that occurred in February 2018 (62 pounds).
- **The TC found the proposal technically sound and recommends approval**

# Next Steps



1. Consider 2019 black sea bass recreational management measures:
  - Status Quo Measures
  - Alternative Measures (Board would need to indicate how regions would set 2019 measures)
2. Consider approval of VA and NC proposals for February black sea bass fishery



**Questions?**





# **Black Sea Bass Commercial Working Group Report**



Presented to ASMFC Summer Flounder, Scup  
and Black Sea Bass Management Board

January 5, 2019

# Background



- Purpose: Identify issues and management strategies for the commercial fishery related to changes in black sea bass abundance and distribution
- Members: David Borden (Chair, RI), Nichola Meserve (MA), Matthew Gates (CT), John Maniscalco (NY), Joe Ciminio (NJ), Rob O'Reilly (VA)
- Conference calls Summer/Fall 2018, January 2019

# Commercial Working Group Timeline



Date	Activity/Action
August 2018	Commercial WG formed
September 2018	WG conference call
October 2018	Board reviewed WG proposal for statement of the problem and goals
Dec 2018/ Jan 2019	Additional WG calls to develop potential management strategies
<b>February 2019</b>	Board review of WG report: revised statement of the problem, goals and potential management strategies

# Statement of the Problem



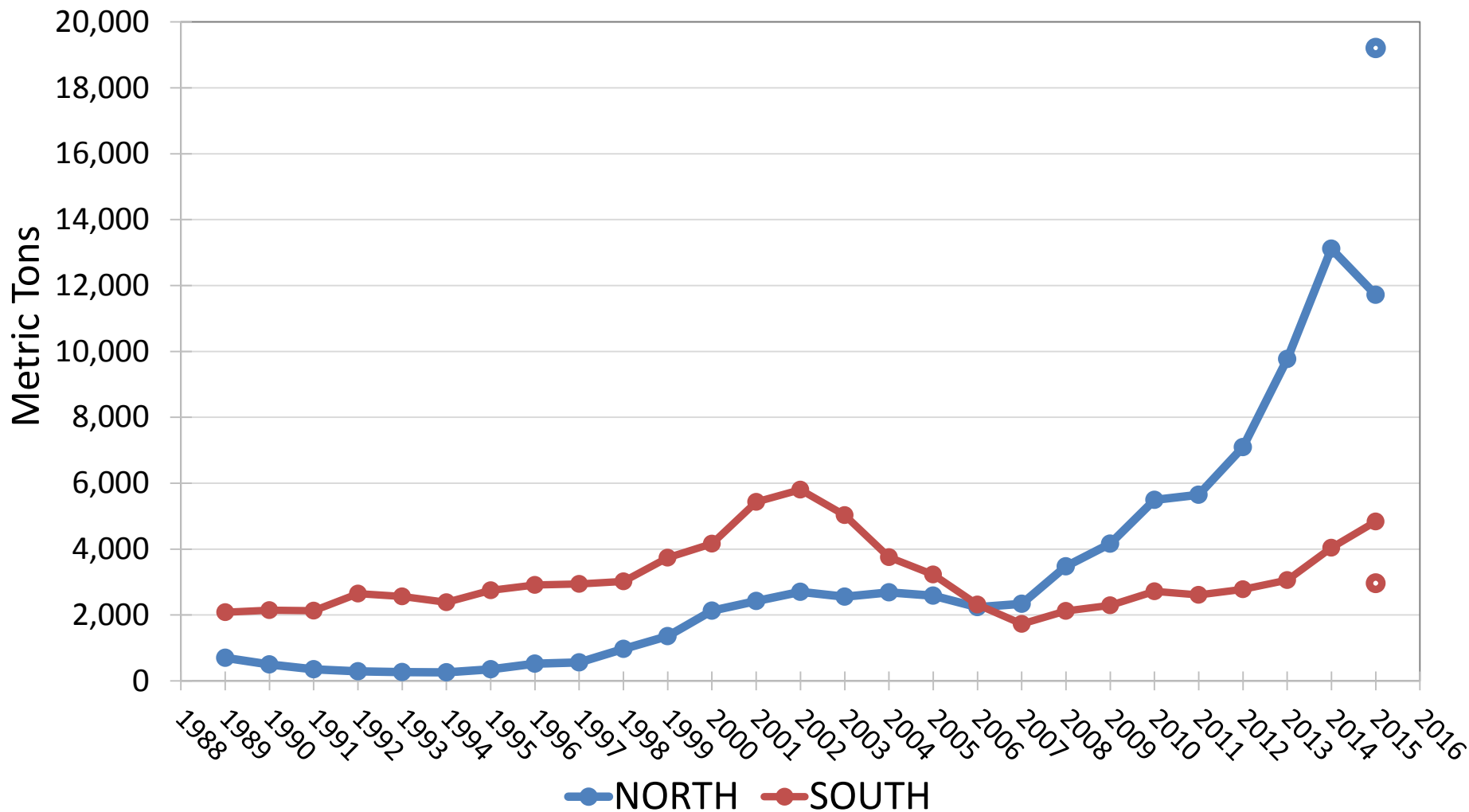
## **1. State commercial allocations do not reflect current resource distribution**

- Set in 2003, based on landings from 1980-2001
- 33% to ME-NY and 67% to NJ-NC
- Scientific evidence of shifts in fishery and stock abundance and distribution
- Management is not responsive to these changes

# Statement of the Problem



**Black Sea Bass SSB by Region as of 2016 Benchmark Stock Assessment**  
(open markers represent retro-adjusted values)



# Statement of the Problem



## **2. Coastwide black sea bass quota management by NOAA Fisheries**

- All states in the management unit are subject to fishery closures if a coastwide quota overage occurs
- Can leave states with remaining commercial quota unable to utilize their full allocation

# Additional Considerations



- Regular review of allocations using the latest and most appropriate data sources
- Changes in allocations should be linked to best available data (stock assessments when practicable, other peer reviewed data sources, state and federal survey indices)
- Future biomass/abundance dynamics may differ from recent shifts. Impacts of year-class strength can be regional or range-wide.
- Dramatic changes in resource availability for some states. Current allocations may provide disproportionate advantage or disadvantage if used as the basis for allocation adjustments (e.g. Connecticut's 1% allocation).

# Additional Considerations



- Investments in infrastructure (e.g. ITQs). Slow or gradual implementation of allocation changes should be considered to reduce unnecessary economic hardships allow industry to respond.
- Impacts to discards
- Changes in recreational information and other factors outside the commercial fishery



# Proposed Management Objectives



- Maintain fishing mortality and spawning stock biomass within established thresholds and targets
- Improve equity in access to the fishery among the states
- Improve fishery efficiency (e.g. use of time, fuel and other resources; reducing discards)

# Potential Management Strategies



- Adjustments to state by state allocations
  - Status quo
  - Dynamic approach modeled after the Transboundary Management Guidance Committee (TMGC) approach
- Defined timeline or trigger for reevaluation of allocations
  - Future consideration of a strategy similar to the scup model (i.e. winter coastwide quota management and summer state-by-state quota management)

# Allocation Adjustment Strategy



- Modeled after TMGC approach
- Objective strategy for gradually transitioning the basis for allocations from resource utilization (allocations, landings) to resource distribution (biomass, abundance)
- More weight on resource utilization to start, and shifts weight to stock distribution over time
- Equation can be modified for different duration, frequency of adjustments, weights
- Control rule for limiting annual allocation changes

# Next Steps



- Provide direction to WG for additional work

OR

- Initiate management action and form PDT



# Questions?