

SEDAR

SouthEast Data, Assessment, and Review

South Atlantic Fishery Management Council
Gulf of Mexico Fishery Management Council
Caribbean Fishery Management Council
NOAA Fisheries
Atlantic States Marine Fisheries Commission
Gulf States Marine Fisheries Commission

SAFMC
4055 Faber Place Drive, Suite 201
North Charleston, SC 29405
Phone (843) 571-4366
Fax (843) 769-4520

FINAL Terms of Reference Version 3 South Atlantic Vermilion Snapper Assessment Update

1. Update the approved SEDAR 2 base configuration, length-structured assessment model of South Atlantic vermilion snapper with data through 2006.
2. Document any changes or corrections made to input datasets and tabulate complete updated input datasets. Provide tables of commercial and recreational landings and discard in pounds. Clarify units of measurement in all tables.
3. Estimate and provide complete updated tables of stock parameters.
4. Update measures of uncertainty and provide representative measures of precision for stock parameter estimates.
5. Update estimates of stock status and SFA parameters; provide declarations of stock status relative to current SFA criteria; provide SFA criteria required for Snapper-Grouper Amendment 15. (See Table 1 for complete list of required values.)
6. Evaluate future stock status for 2007-2016 according to the specifications in Table 2.
7. Recommend sampling intensity in terms of the number of sampling events and the quantity of individual lengths measured and age structures taken by gear, quarter, state, market category, fishery, and area in order to complete the ACCSP sampling design matrix.
8. Review the research recommendations from the previous assessment, note any which have been completed, and make any necessary additions or clarifications.
9. Develop a stock assessment workshop report to fully document the input data, methods, and results of the stock assessment update.

NOTES:

This update assessment is intended to update those population and status measures approved for the original assessment and provide values SFA criteria under consideration in Snapper-Grouper Amendment 15.

It is not the intent of this update to resolve any critical issues identified in the initial SEDAR 2 assessment.

Council requests reporting of both commercial and recreational landings in pounds.

Table 1. Required SFA Evaluations

Criteria	Definition	Value
MFMT		
Current:	$F_{30\%SPR}$	
Proposed:	F_{MAX}^1	
MSST		
Current:	$\{\max(0.5 \text{ or } 1-M)\}SSB_{MSY}^2$	
Proposed:	$(1-M)SSB_{MSY}^2$	
	75% SSB_{MSY}^2	
	50% SSB_{MSY}^2	
MSY	Yield @ F_{MAX}^1	
F_{oy}		
Current:	$F_{40\%SPR}$	
Proposed:	65% MFMT	
	75% MFMT	
	85% MFMT	
OY		
Current:	Yield @ $F_{40\%SPR}$	
Proposed:	Yield @ 65% MFMT	
	Yield @ 75% MFMT	
	Yield @ 85% MFMT	
Generation Time		
Base M		
Rebuild Time	(if $B_{2006} < MSST$)	
Tmin	@ $F=0$	
Midpoint	mid of Tmin, Tmax	
Tmax	if $Tmin > 10y$, $Tmin + 1 \text{ Gen}$	
ABC	Recommend Range	

1. MSY-based benchmarks deemed unreliable by SEDAR 2 and SAFMC SSC. Recommendation is to base criteria on proxy $F_{MAX} = F_{MSY}$.
2. MSST estimates based on SSB_{MSY} proxy of $SSB@F_{MAX}$.

Table 2. Projection Scenario Details

2.1 Initial Assumptions

OPTION	Value
2007 landings target	1,818,948 ¹ pounds
2007+ Recruits	TBD by Panel
2007+ Selectivity	TBD by Panel
Projection Period	10 yrs (2007-2016) ²
1 st year of change F, Yield	2008

1. Value in 'whole weight pounds'; equivalent 'gutted weight' as used in Snapper-Grouper Amendment 13C is 1,638,692 pounds.

2. A ten-year projection period is adequate unless the stock is deemed overfished under the currently approved MSST and the rebuilding time extends longer than 10 years.

2.2 Scenarios to Evaluate

1. Landings fixed at 2007 target.
2. $F_{MSY} = F_{MAX}$
3. $F_{OY} = 65\% F_{MSY}$
4. $F_{OY} = 75\% F_{MSY}$
5. $F_{OY} = 85\% F_{MSY}$
6. $F_{REBUILD}$ (if necessary)
7. $F=0$ (if necessary)

2.3 Output values

1. Landings
2. Discard
3. Exploitation
4. F/F_{MSY}

