

Dear David,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 1 of your assessments, and now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please follow the steps below to ensure that your assessments have been dutifully represented:

QA/QC steps

For each assessment:

1. Ensure that the General assessment details are correct.
2. Ensure that the units for all Biometrics and Time Series shown are correct. To aid in this, we have included the minimum, maximum, first year, and last year of the spawning stock biomass, recruitment, fishing mortality, total biomass, and catch (where provided).
3. If there are blank values in the Biometrics table, please include these in your response (see below), where they are available. Please note that in the Biometrics table, the following abbreviations are used:
 - SSB-AGE-yr = Ages for which the spawning stock biomass is defined
 - REC-AGE = Age at recruitment
 - F-AGE-yr = Ages for which the fishing mortality is defined
 - TB-AGE-yr = Ages for which the total biomass is defined
 - M = Natural mortality
 - A50-yr = The age at 50% maturity
 - L50-cm = The length at 50% maturity
 - MORATOR-yr-yr = Moratorium years
 - LME = Large Marine Ecosystem
4. To ensure that the recruitment time series has been offset by the age at recruitment so that yearclass matches up with spawner biomass, please make sure that the difference between the last year of the recruitment and last year of the SSB time series is equal to the age at recruitment supplied (unless there is another reason, e.g. estimates unavailable).
5. Provide Large Marine Ecosystem (LME) designation(s) for your stock (unless it is a high seas stock). Please enter a primary, secondary and tertiary LME (if they exist) in the issue you submit (see below). A map of the LMEs is provided on the last page of this document.

QA/QC submission process

If you (or someone else) submitted the assessments via the RAM legacy site, please log into : <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting> and locate the issue(s) associated with your spreadsheet submission(s). Once you locate your assessment, open the associated issue and choose "Add response". At the top of this response write:

QAQC: Assessment ID (this ID is located at the top of each assessment in the current document)

If you did not submit via the RAM Legacy site, please go to the url above and click "Submit a new issue" with the title: *QAQC: Assessment ID* (located at the top of each assessment in this pdf).

If you found no issues with the QA/QC document, please type:

"QA/QC correct". If you have found issues, please update the assessment spreadsheet accordingly or write the details of corrections to be made in the dialogue box. Once we have received and processed your response, the assessment will be flagged as quality controlled and the data it contains will be used for analyses.

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Assessment of Gulf of Mexico gulf menhaden (*Brevoortia patronus*)

Assessment ID:SEFSC-MENATGM-1964-2004-GILROY

Issue URL: no issueID

Area ID: USA-NMFS-GM

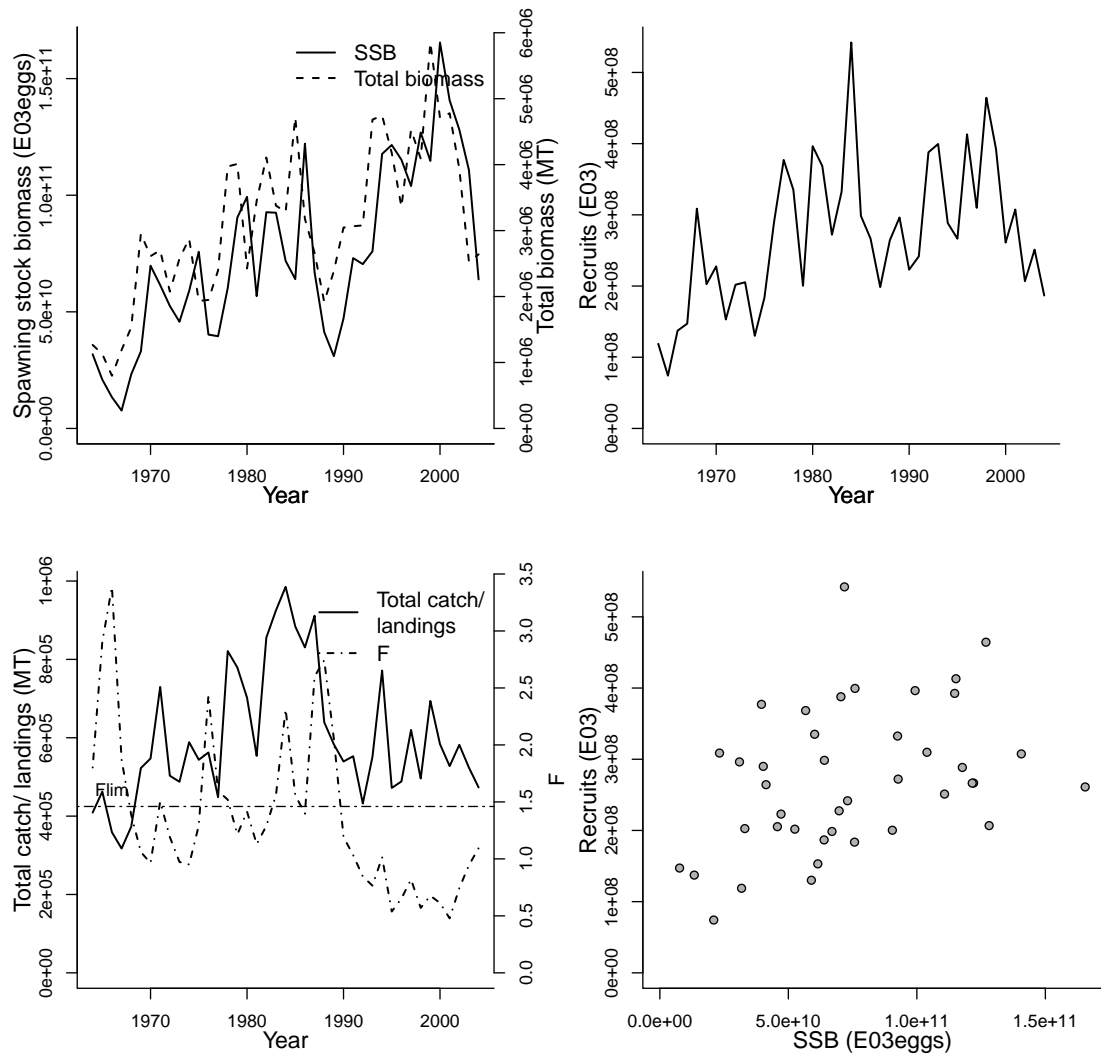
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Vaughan, Douglas
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1964-2004
Document	GILROY-MENHADENGGM-2007.pdf (pdf in database)
Recorder	GILROY
Date entered	2009-02-16
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

		primary LME	secondary LME	tertiary LME
		5 - Gulf of Mexico	na	na
Parameter	Value	Units		
REC-AGE			Reference points	
SSB-AGE-yr			Parameter	Value Units
TB-AGE-yr			F _{lim} -1/yr (F)	1.46 1/yr
F-AGE-yr			F _{current} -1/T (F)	1.094 1/T
M			F _{0.1} -1/yr (F)	3.12 1/yr
A50-yr			F_{2004}/F_{lim}	0.749
L50-cm				
MORATOR-yr-yr				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964	1964	1964	1964	1964
Maximum year	2004	2004	2004	2004	2004
Time series minimum	7668110000	74200000	0.478	799000	317300
Time series maximum	165498000000	542100000	3.387	5852700	985100
Units	E03eggs	E03	1/yr	MT	MT



Large Marine Ecosystems of the World and Linked Watersheds

MAP KEY:

- LME Numbers:**
1. East African Rift
 2. California Current
 3. Gulf of Mexico
 4. Northwest U.S. Continental Shelf
 5. Northeast U.S. Continental Shelf
 6. New Zealand-Labrador Shelf
 7. Pacific Central American Coastal
 8. Pacific Central American Shelf
 9. Hawaiian Islands
 10. Hawaiian Ridge
 11. Hawaiian Trench
 12. Hawaiian Plateau
 13. Hawaiian Seamounts
 14. Hawaiian Trench
 15. Hawaiian Ridge
 16. Hawaiian Plateau
 17. Hawaiian Seamounts
 18. Hawaiian Trench
 19. Hawaiian Ridge
 20. Hawaiian Plateau
 21. Hawaiian Seamounts
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 95. Hawaiian Ridge
 96. Hawaiian Plateau
 97. Hawaiian Seamounts
 98. Hawaiian Trench
 99. Hawaiian Ridge
 100. Hawaiian Plateau

- Large Marine Ecosystems**
- Watershed Boundaries**
- Political Boundaries**

