

Dear David,

Thank you sincerely for entering assessments into the Myers II database. Your assessments have been entered and we now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please use the following steps 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 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 designation for your stock (unless it is a high seas stock). Please enter a primary and secondary and tertiary LME (if they exist) in the issue you submit (see below). A map of the LMEs is provided overleaf.

### **QA/QC submission process**

If you submitted assessments via the RAM Legacy site, please log into :

<http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting>

Once you locate your assessment, please begin a new "Add response", on the page and title this response

QAQC: Assessment ID (located at the top of each assessment in this pdf)

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 in 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.



**MAP KEY:**

- Large Marine Ecosystems  
Watershed Bounds  
Political Borders



**Data Sources:**

- Satellite imagery (2-minute) : Smith and Sodrawel, 1997
- Satellite imagery (5-minute) : NAVOCCANO, DSD05
- Water levels (HYDRO TX) : USGS Eros Data Center
- Aerial photograph : Landsat TM, Political Boundaries : ESRI



**For More Information Visit: [www.edc.uri.edu/lme](http://www.edc.uri.edu/lme)**

NORTH POLAR REGION

SOUTH POLAR REGION

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

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

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	2009-03-10

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

Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
F <sub>lim</sub> -1/yr (F)	1.46	1/yr
F <sub>current</sub> -1/T (F)	1.094	1/T
$F_{2004}/F_{lim}$	0.749	



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

