

Dear Josef,

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 Maine northern shrimp (*Pandalus borealis*)

Assessment ID:ASMFC-PANDALGOM-1960-2009-IDOINE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/331>

Area ID: USA-NMFS-5Y

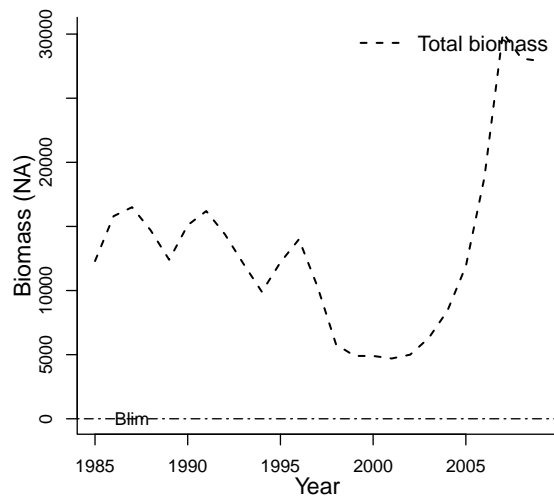
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Atlantic States Marine Fisheries Commission
Assessment authors	Atlantic States Marine Fisheries Commission
Assessment method	Catch-Survey Analysis (like a state space approach)
Publication year	2008
Timeseries span	1960-2009
Document	2008ShrimpAssessment.pdf (pdf in database)
Recorder	IDOINE
Date entered	2009-04-22
Date last loaded	2009-11-08
QA/QC complete	NO
Date approved	

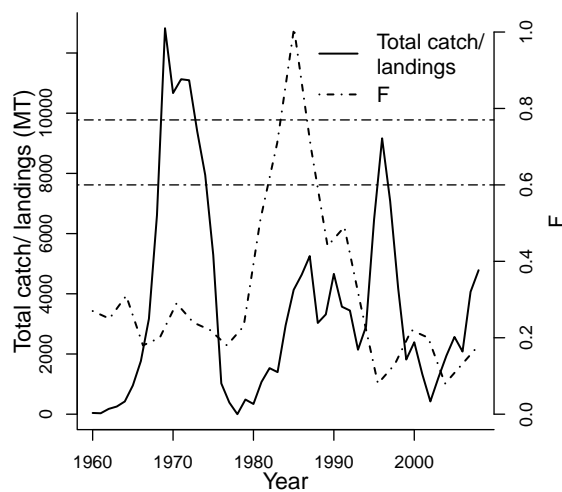
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME	tertiary LME	
7 - Northeast U.S. Continental Shelf			na	na	
			Reference points		
Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	3.5	yr	Blim-MT (SSB)	1.54	MT
F-AGE-yr-yr	1.5-6	yr-yr	Bpa-MT (SSB)	9	MT
TB-AGE-yr	1.5+	yr	F0.1-1/yr (F)	0.46	1/yr
M-1/yr	0.25	1/yr	Flim-1/T (F)	0.6	1/T
MORATOR-yr-yr	1978	yr-yr	Fmsy-1/yr (F)	0.77	1/yr
REC-AGE			Fpa-1/T (F)	0.28	1/T
M			MORATOR-yr-yr	1978	yr-yr
A50-yr			F40%-1/T	0.34	1/T
L50-cm			F_{2008}/F_{lim}	0.300	
			F_{2008}/F_{msy}	0.234	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1985	1985	1960
Maximum year			2008	2009	2008
Time series minimum			0.08	4700	0
Time series maximum			1.01	30100	12823.9
Units			1/T	MT	MT



No recruitment
data available



No SSB–recruit
data available

MAP KEY:

- | Line Number: | Line Item |
|--------------|----------------------------|
| 1 | East Branch Shell |
| 2 | Northwest Australian Shell |
| 3 | California Current |
| 4 | California Current |
| 5 | California Current |
| 6 | South Shell |
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LARGE MARINE ECOSYSTEMS are areas of the ocean characterized by distinct bathymetry, hydrography, productivity, and trophic interactions. They annually produce 95 percent of the world's fish catch. They are national and regional focal areas of a global effort to reduce the degradation of linked watersheds, marine resources, and coastal environments from pollution, habitat loss, and over-fishing.

For More Information Visit: www.edc.uri.edu/lme

NORTH POLAR REGION

SOUTH POLAR REGION