

Dear William,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 3 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 / Cape Hatteras atlantic butterfish (*Peprilus triacanthus*)

Assessment ID: NEFSC-BUTTERGOMCHATT-1965-2005-OVERHOLTZ

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/300>

Area ID: USA-NMFS-5YCHATT

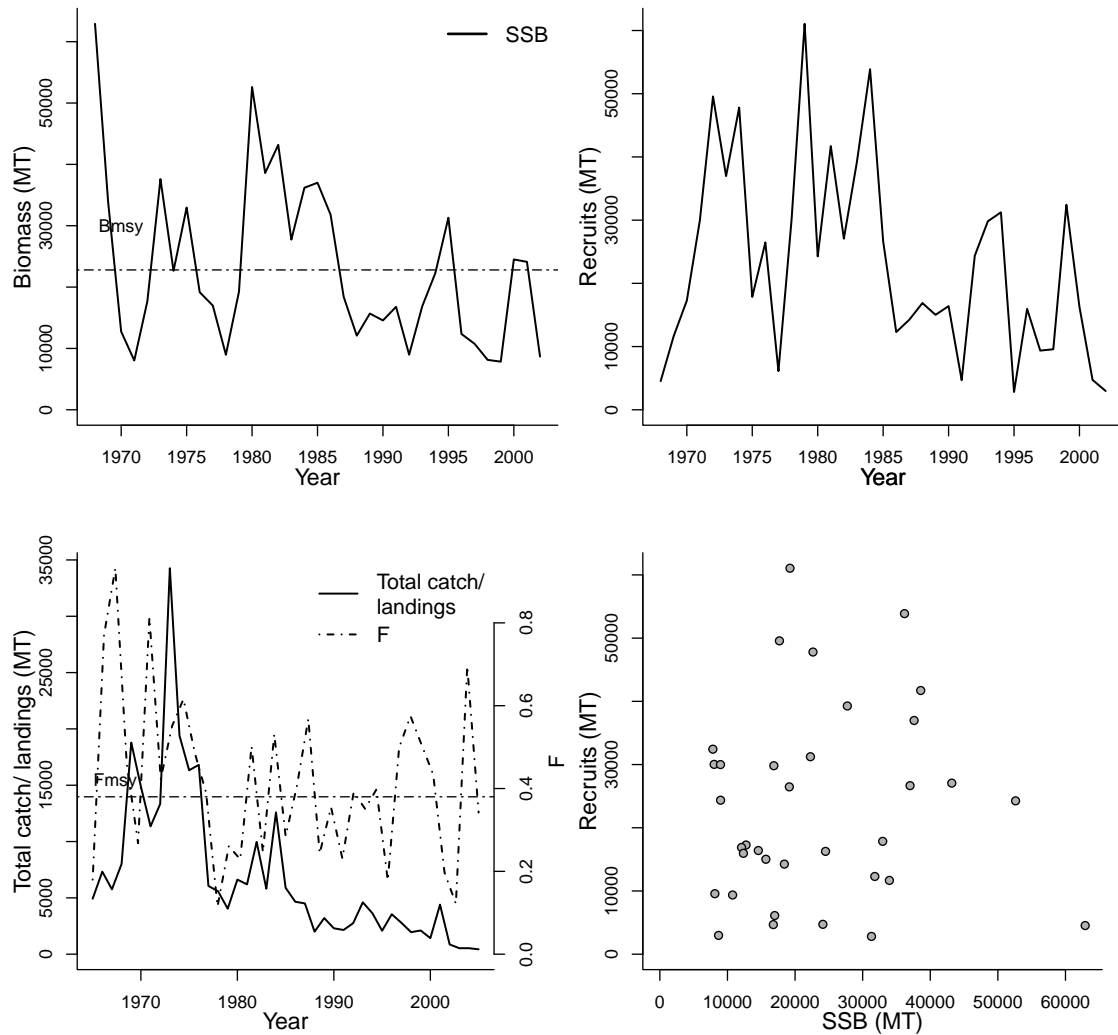
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Unknown
Publication year	2004
Timeseries span	1965-2005
Document	butterfish-assessment-2004.pdf (pdf in database)
Recorder	OVERHOLTZ
Date entered	2009-04-17
Date last loaded	2009-11-06
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		
Parameter	Value	Units	Reference points			
SSB-AGE-yr	1+	yr	Parameter	Value	Units	
REC-AGE-yr	0	yr	Bmsy-MT (TB)	22798	MT	
L50-cm	11.7	cm	F0.1-1/yr (F)	1.6	1/yr	
M-1/yr	0.8	1/yr	Fmsy-1/T (F)	0.38	1/T	
TB-AGE-yr			MSY-MT (TB)	12.175	MT	
F-AGE-yr			F_{2002}/F_{msy}	0.900		
M						
A50-yr						
MORATOR-yr-yr						

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1968	1968	1968		1965
Maximum year	2002	2002	2002		2005
Time series minimum	7843.34	2812.32	0.115		432
Time series maximum	62914.7	61062	0.932		34266
Units	MT	MT	1/T		MT



Assessment of Northwestern Atlantic Coast herring (*Clupea harengus*)

Assessment ID: NEFSC-HERRNWATLC-1960-2005-OVERHOLTZ

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/295>

Area ID: USA-NMFS-NWATLC

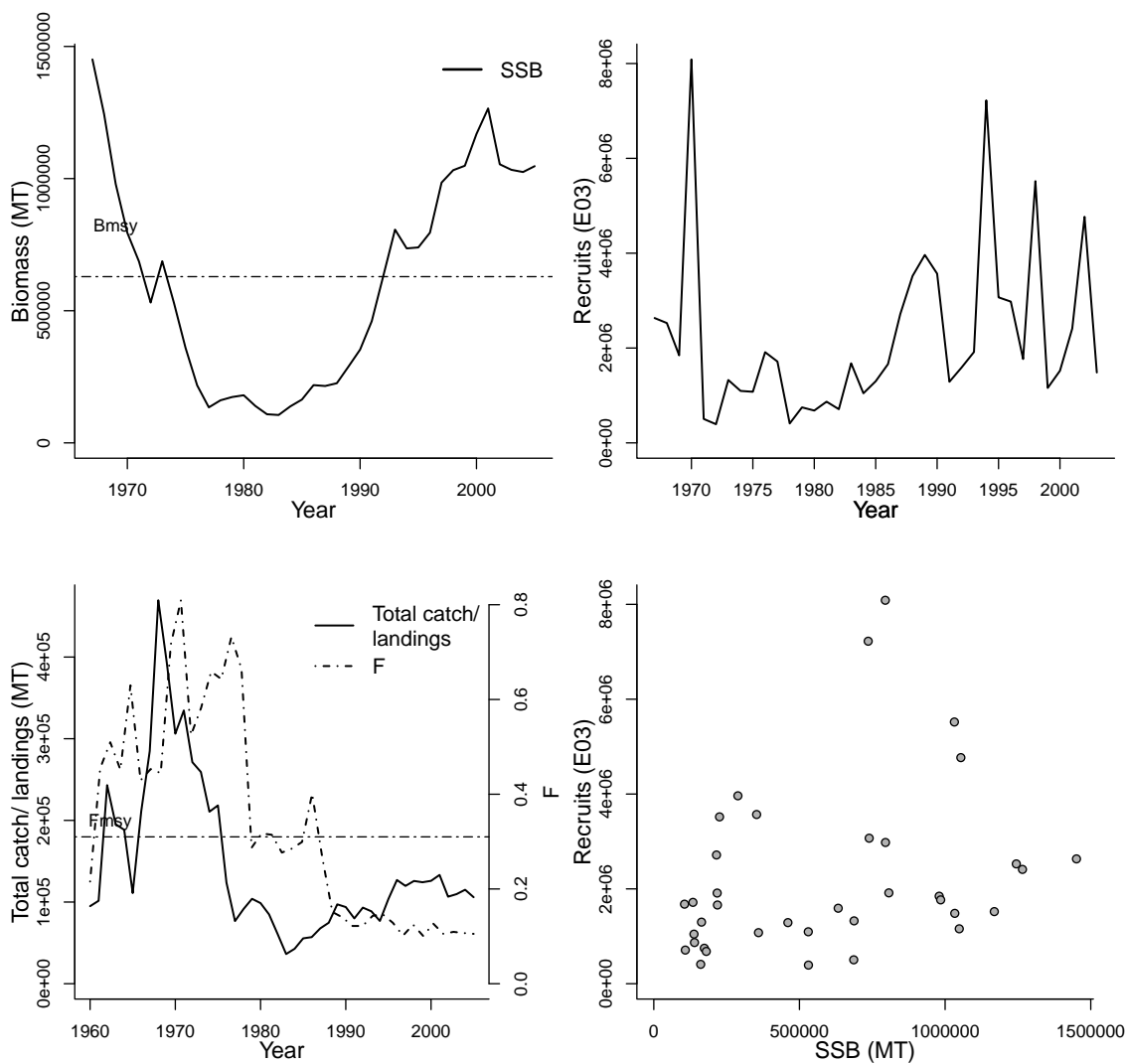
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Transboundary Resource Assessment Committee
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2006
Timeseries span	1960-2005
Document	Herring2006.pdf (pdf in database)
Recorder	OVERHOLTZ
Date entered	2009-04-29
Date last loaded	2009-11-06
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	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-AGE-yr	3+	yr			
REC-AGE-yr	2	yr			
A50-yr	2.95	yr	Bmsy-MT (TB)	629000	MT
L50-cm	25.35	cm	F0.1-1/yr (F)	0.21	1/yr
M-1/T	0.2	1/T	Fmsy-1/yr (F)	0.31	1/yr
TB-AGE-yr			F40%-1/T	0.2	1/T
F-AGE-yr			MSY-MT (TB)	194000	MT
M			F_{2005}/F_{msy}	0.339	
MORATOR-yr-yr					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1967	1967	1967		1960
Maximum year	2005	2003	2005		2005
Time series minimum	105470	393002	0.10082		36358
Time series maximum	1450950	8086560	0.809456		469535
Units	MT	E03	1/T		MT



Assessment of Gulf of Maine / Cape Hatteras mackerel (*Scomber scombrus*)

Assessment ID: NEFSC-MACKGOMCHATT-1960-2005-OVERHOLTZ
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/299>

Area ID: USA-NMFS-5YCHATT

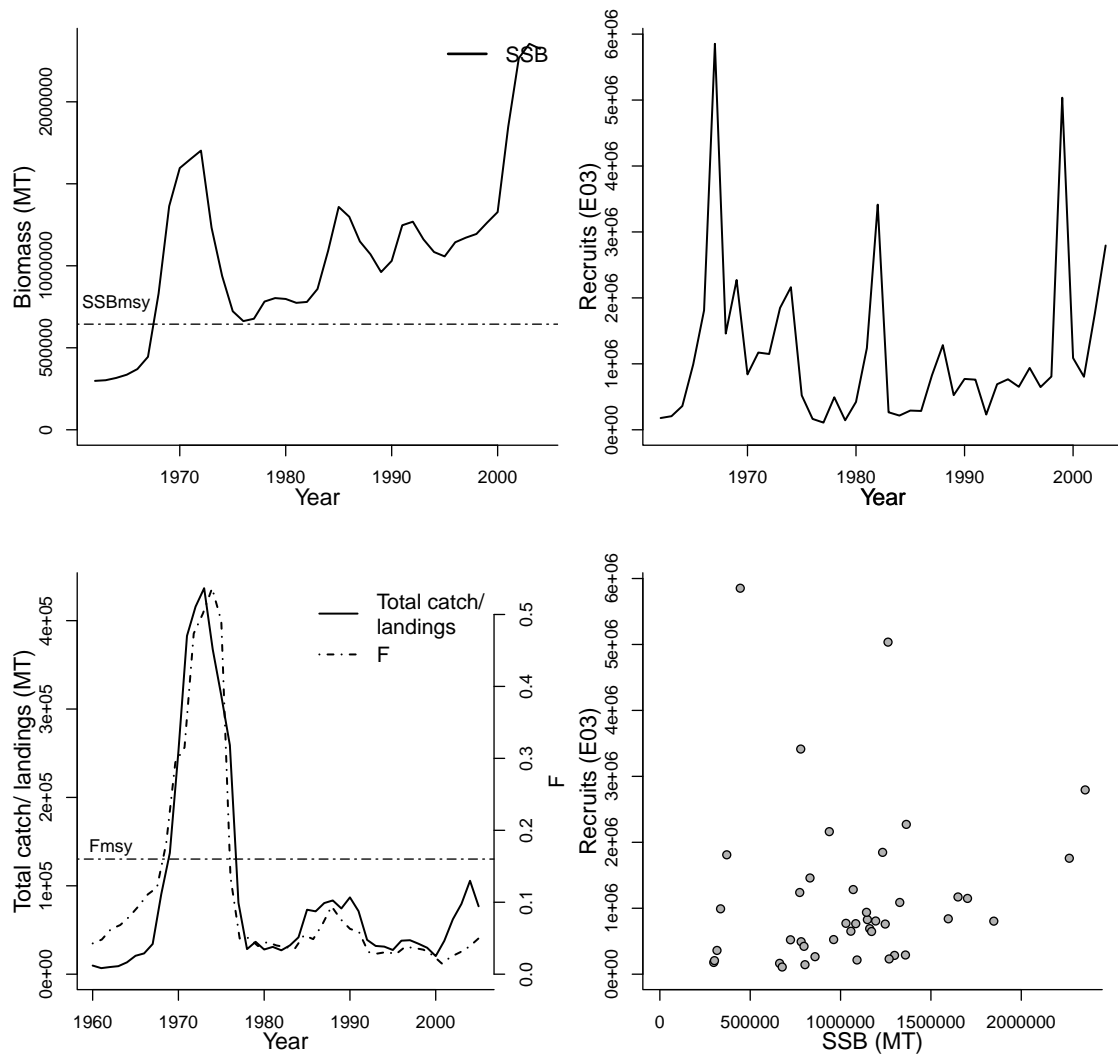
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Virtual Population Analysis
Publication year	2006
Timeseries span	1960-2005
Document	AtlanticMackerel2005.pdf (pdf in database)
Recorder	OVERHOLTZ
Date entered	2009-04-29
Date last loaded	2009-05-26
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	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	2+	yr	Parameter	Value	Units
REC-AGE-yr	1	yr	F0.1-1/yr (F)	0.25	1/yr
A50-yr	1.9	yr	Fmsy-1/yr (F)	0.16	1/yr
L50-cm	25.85	cm	F40%-1/T	0.24	1/T
M-1/yr	0.2	1/yr	SSBmsy-MT (SSB)	644000	MT
TB-AGE-yr			MSY-MT (TB)	89000	MT
F-AGE-yr			F_{2004}/F_{msy}	0.311	
M			SSB_{2004}/SSB_{msy}	3.607	
MORATOR-yr-yr					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1962	1962	1962		1960
Maximum year	2004	2003	2004		2005
Time series minimum	298218	108962	0.0147906		6841
Time series maximum	2353680	5853030	0.536505		436698
Units	MT	E03	1/T		MT



MAP KEY:

- | Lake Number | Lake Name |
|-------------|----------------|
| 1 | East Bear Lake |
| 2 | East Bear Lake |
| 3 | California |
| 4 | California |
| 5 | California |
| 6 | South Fork |
| 7 | South Fork |
| 8 | South Fork |
| 9 | South Fork |
| 10 | South Fork |
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| 100 | South Fork |



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

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