Dear Julia,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 7 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 Alaska pacific cod (Gadus macrocephalus) Assessment ID:AFSC-PCODGA-1977-2007-BAUM

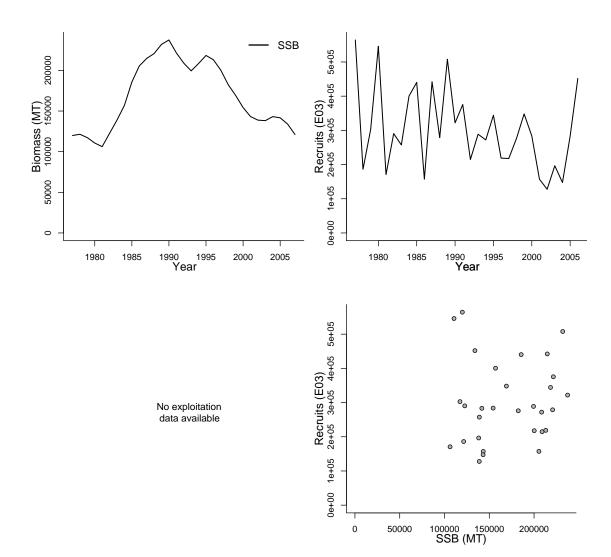
Area ID: USA-NMFS-GA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Thompson, Grant G.
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1977-2007
Document	AFSC-GOA-Gadusmacrocephalus-
	2007.pdf (pdf not in database)
Recorder	BAUM
Date entered	2009-03-10

Parameter	Value	Units			
A50-yr	4.35	yr			
SSB-AGE-yr	3+	yr			
REC-AGE-yr TB-AGE-yr	0	yr	Referen	nce poin	ıts
F-AGE-yr			Parameter	Value	Units
M					
L50-cm					
MORATOR-yr-yr					
LME					

Time series minima and maxima						
	SSB	R	F	TB	Catch	
Minimum year	1977	1977				
Maximum year	2007	2006				
Time series minimum	106210	127850				
Time series maximum	237430	564300				
Units	MT	E03				



Assessment of Georges Bank atlantic cod (Gadus morhua) Assessment ID:NEFSC-COD5Z-1960-2007-BAUM

Area ID: USA-NMFS-5Z

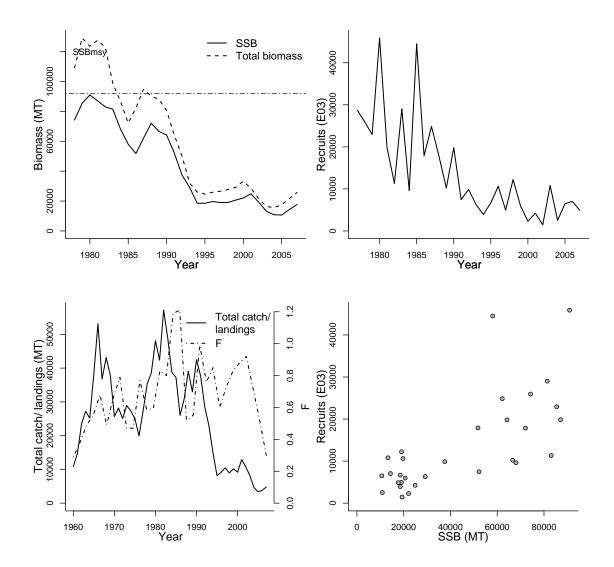
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum- of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2008
Timeseries span	1960-2007
Document	NAFO-5Z-Gadusmorhua-2008.pdf (pdf not in database)
Recorder	BAUM
Date entered	2009-03-10

Value	Units	
1+	yr	
1	yr	
1+	yr	
0.2	1/T	
	1+ 1 1+	1+ yr 1 yr 1+ yr

Reference points					
Parameter	Value	Units			
F40%-1/T	0.25	1/T			
SSBmsy-MT (SSB)	91806	MT			
SSB_{2007}/SSB_{msy}	0.192				

Time series minima and maxima						
	SSB	R	F	TB	Catch	
Minimum year	1978	1977	1978	1978	1960	
Maximum year	2007	2007	2007	2007	2007	
Time series minimum	10627	1461	0.29	15652	3384	
Time series maximum	90951	45891	1.21	129103	57149	
Units	MT	E03	1/T	MT	MT	



Assessment of Gulf of Maine atlantic cod (Gadus morhua) Assessment ID:NEFSC-CODGOM-1893-2008-BAUM

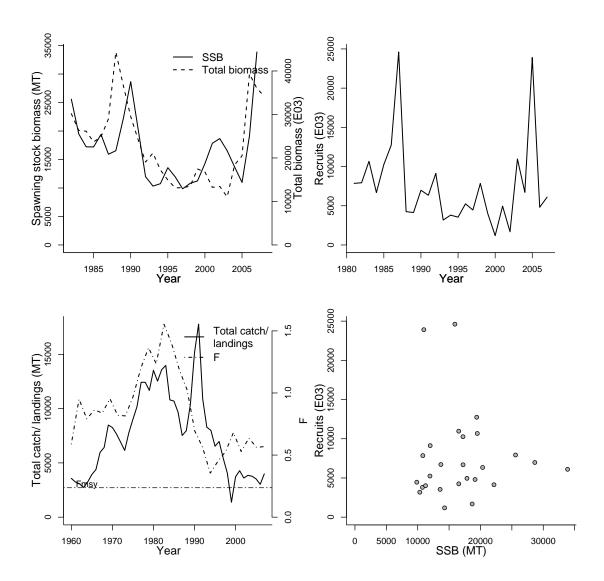
Area ID: USA-NMFS-5Y

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	A general approach to fitting VPA models.
	ADAPT is based on minimising the sum-
	of-squares over any number of indices of
	abundance to find best-fit parameters.
Publication year	2008
Timeseries span	1893-2008
Document	NMFS-GOM-Gadusmorhua-2008.pdf
	(pdf not in database)
Recorder	BAUM
Date entered	2009-03-10

Parameter	Value	Units			
REC-AGE-yr A50-yr	1 AVAILABLE	yr yr	Referen	ce points	<u> </u>
M-1/T	0.2	1/T	Parameter	Value	Units
SSB-AGE-yr		,	Bmsy-MT (TB)	82830	MT
TB-AGE-yr			Fmsy-1/T (F)	0.237	1/T
F-AGE-yr			MSY-MT (TB)	16600	MT
M			TB_{2008}/B_{msy}	0.413	
L50-cm			F_{2007}/F_{msy}	2.399	
MORATOR-yr-yr LME			,		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1982	1981	1982	1982	1960
Maximum year	2007	2007	2007	2008	2007
Time series minimum	9856	1187	0.355	11046	1380
Time series maximum	33877	24612	1.554	44369	17781
Units	MT	E03	1/T	E03	MT



Assessment of Georges Bank haddock (Melanogrammus aeglefinus) Assessment ID:NEFSC-HADGB-1930-2008-BAUM

Area ID: USA-NMFS-5Z

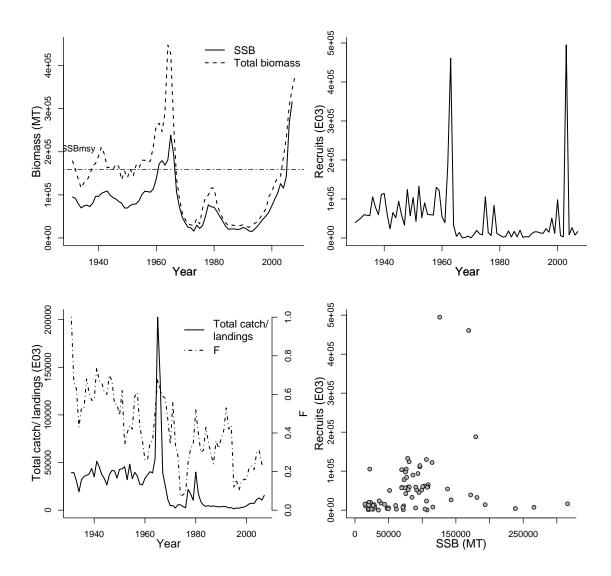
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	VPA/ADPAT version 2.3.2 NOAA Fish-
	eries
Publication year	2008
Timeseries span	1930-2008
Document	NMFS-5Z-Melanogrammusaeglefinus-
	2008.pdf (pdf not in database)
Recorder	BAUM
Date entered	2009-03-10

Parameter	Value	Units
REC-AGE-yr	1	yr
A50-yr	AVAILABLE	yr
L50-cm	AVAILABLE	cm
M-1/T	0.2	1/T
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
MORATOR-yr-yr		
LME		

Reference points							
Parameter	Value	Units					
F40%-1/T	0.35	1/T					
SSBmsy-MT (SSB)	158873	MT					
SSB_{2007}/SSB_{msy}	1.989						

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1931	1930	1931	1931	1931			
Maximum year	2007	2007	2007	2008	2007			
Time series minimum	14907	267	0.07	24608	1370			
Time series maximum	315975	494868	1	447882	202584			
Units	MT	E03	1/T	MT	E03			



Assessment of Mid-Atlantic Coast summer flounder (Paralichthys dentatus) Assessment ID:NEFSC-SFLOUNMATLC-1940-2007-BAUM

Area ID: USA-NMFS-MATLC

General assessment details.

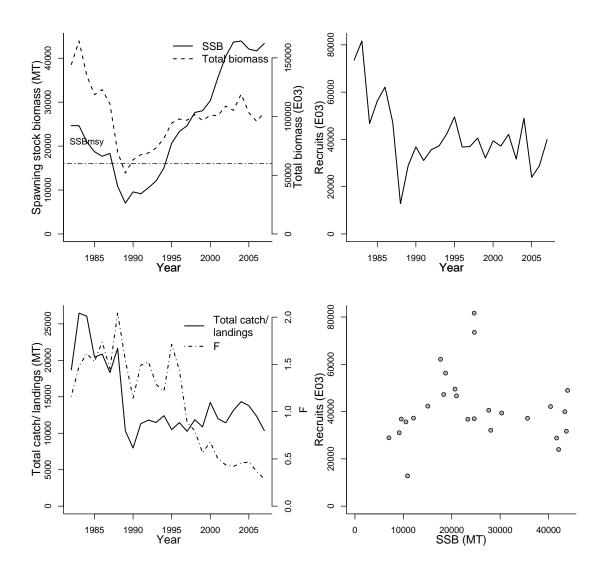
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Age Structured Assessment Program
Publication year	2008
Timeseries span	1940-2007
Document	NMFS-MATLC-Paralichthysdentatus-
	2008.pdf.pdf (pdf not in database)
Recorder	BAUM
Date entered	2009-03-10

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

Units 1/T MT 1/T 1/T

Parameter	Value	Units		
REC-AGE-yr A50-yr L50-cm	0 AVAILABLE AVAILABLE	yr yr cm	Reference Parameter	points Value
M-1/T SSB-AGE-yr TB-AGE-yr F-AGE-yr M MORATOR-yr-yr LME	0.25	1/T	$F40\%$ -1/T SSBmsy-MT (SSB) $F35\%$ -1/T $Frebuild$ -1/T (F) SSB_{2007}/SSB_{msy}	0.255 60074 0.31 0.274 0.722

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1982	1982	1982	1982	1982		
Maximum year	2007	2007	2007	2007	2007		
Time series minimum	7017	12831	0.288	51853	7976		
Time series maximum 43932 81631 2.042 164410 26466							
Units	MT	E03	1/T	E03	MT		



Assessment of Georges Bank yellowtail flounder (Limanda ferruginea) Assessment ID:NEFSC-YELLGB-1935-2008-BAUM

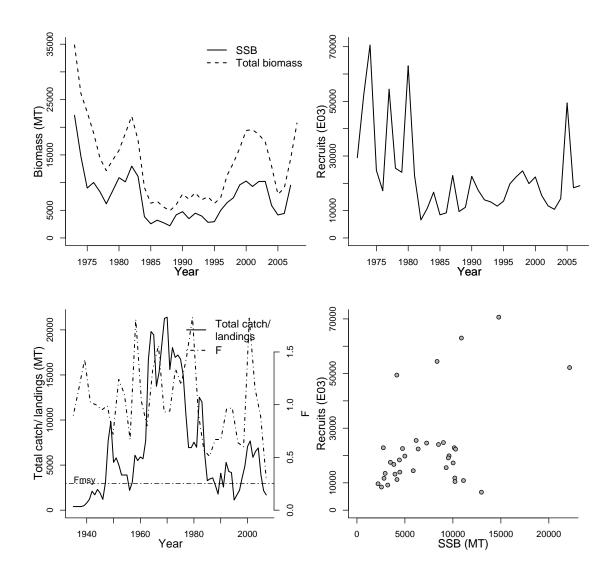
Area ID: USA-NMFS-5Z

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	2008
Timeseries span	1935-2008
Document	NMFS-GB-Limandaferruginea-2008.pdf
	(pdf not in database)
Recorder	BAUM
Date entered	2009-03-10

Parameter	Value	Units				
REC-AGE-yr	1	yr	Reference points			
A50-yr	2	yr	Parameter	Value	Units	
SSB-AGE-yr		•	Fmsy-1/T (F)	0.254	1/T	
TB-AGE-yr			F40%-1/T	0.254	1/T	
F-AGE-yr			SSBmsy-MT (SSB)	43200	MT	
M			MSY-MT (TB)	9400	MT	
L50-cm			F_{2007}/F_{msy}	1.142		
MORATOR-yr-yr			SSB_{2007}/SSB_{msy}	0.221		
LME						

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1973	1972	1973	1973	1935		
Maximum year	2007	2007	2007	2008	2007		
Time series minimum	2198	6581	0.29	4904	400		
Time series maximum	22161	70632	1.83	34860	21410		
Units	MT	E03	1/T	MT	MT		



Assessment of Southern New England / Mid Atlantic yellowtail flounder (*Limanda ferruginea*) Assessment ID:NEFSC-YELLSNEMATL-1935-2008-BAUM

Area ID: USA-NMFS-SNEMATL

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	2008
Timeseries span	1935-2008
Document	NMFS-SNEMATL-Limandaferruginea-
	2008.pdf (pdf not in database)
Recorder	BAUM
Date entered	2009-03-10

Parameter	Value	Units				
REC-AGE-yr	1	yr	Reference points			
A50-yr	2	yr	Parameter	Value	Units	
SSB-AGE-yr		-	Fmsy-1/T (F)	0.254	1/T	
TB-AGE-yr			F40%-1/T	0.254	1/T	
F-AGE-yr			SSBmsy-MT (SSB)	27400	MT	
M			MSY-MT (TB)	6100	MT	
L50-cm			F_{2007}/F_{msy}	1.614		
MORATOR-yr-yr			SSB_{2007}/SSB_{msy}	0.128		
LME						

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1973	1972	1973	1973	1935		
Maximum year	2007	2007	2007	2008	2007		
Time series minimum	542	1133	0.4	4853	345		
Time series maximum	28815	136011	3.22	199647	44369		
Units	MT	E03	1/T	E03	MT		

