

Dear Daniel,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 5 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 Western Scotian Shelf cusk (*Brosme brosme*)

Assessment ID:DFO-MAR-CUSK4X-1970-2007-RICARD

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/476>

Area ID: Canada-DFO-4X

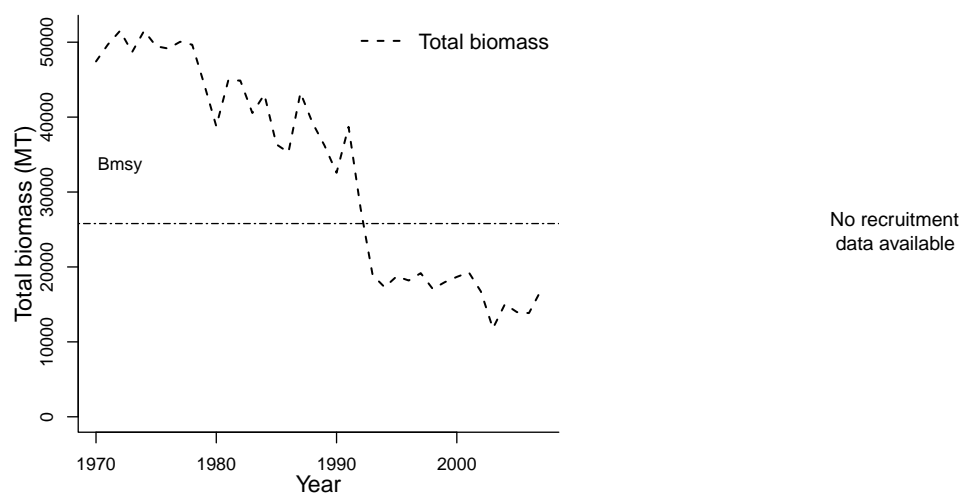
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Maritimes Region
Assessment authors	Davies, Trevor D.
Assessment method	Bayesian Surplus Production Model
Publication year	
Timeseries span	1970-2007
Document	Davies-Jonsen-CJFAS-2011.pdf (pdf in database)
Recorder	RICARD
Date entered	2011-03-01
Date last loaded	2011-03-02
QA/QC complete	YES
Date approved	2011-03-02

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	
REC-AGE			Parameter	Value Units
SSB-AGE-yr			K-MT	51580 MT
SSB-SEX-sex			MSY-MT (TB)	1482.925 MT
TB-AGE-yr			Bmsy-MT (TB)	25790 MT
F-AGE-yr			Umsy-ratio (U)	0.0575 ratio
M			B0-MT	47430 MT
A50-yr			TB_{2007}/B_{msy}	0.655
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1970	
Maximum year				2007	
Time series minimum				11800	
Time series maximum				51520	
Units				MT	



No exploitation data available

No SSB–recruit data available

Assessment of Southern Labrador-Eastern Newfoundland atlantic cod (*Gadus morhua*)

Assessment ID:DFO-NFLD-COD2J3KL-1850-2005-RICARD

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/474>

Area ID: Canada-DFO-2J3KL

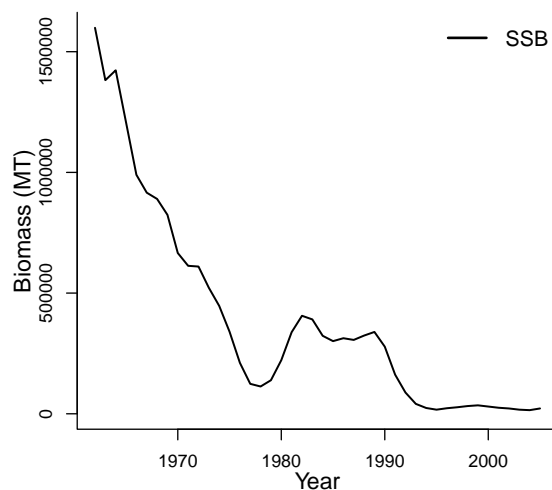
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Newfoundland Region
Assessment authors	
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	
Timeseries span	1850-2005
Document	DFO-COD2J3KL-2006.pdf (pdf not in database)
Recorder	RICARD
Date entered	2011-02-11
Date last loaded	2011-02-11
QA/QC complete	NO
Date approved	

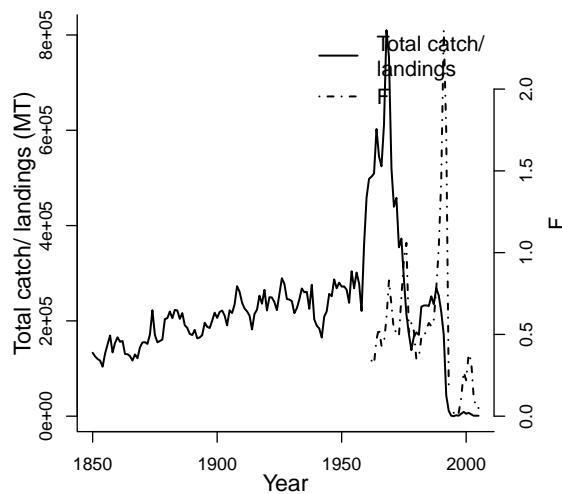
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf			na	na
Parameter	Value	Units	Reference points	
REC-AGE-yr	3	yr		
F-AGE-yr-yr	2-10	yr-yr		
A50-yr	6-7	yr		
M-1/T	0.4	1/T	Parameter	Value
SSB-AGE-yr				Units
SSB-SEX-sex			MORATOR-yr-yr	1992-2005
TB-AGE-yr				yr-yr
M				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1962		1962		1850
Maximum year	2005		2005		2005
Time series minimum	15000		0.02		0
Time series maximum	1599000		2.36		810000
Units	MT		1/T		MT



No recruitment
data available



No SSB–recruit
data available

Assessment of Southern Gulf of St. Lawrence atlantic cod (*Gadus morhua*)

Assessment ID:DFO-SG-COD4TVn-1965-2009-RICARD

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/156>

Area ID: Canada-DFO-4T

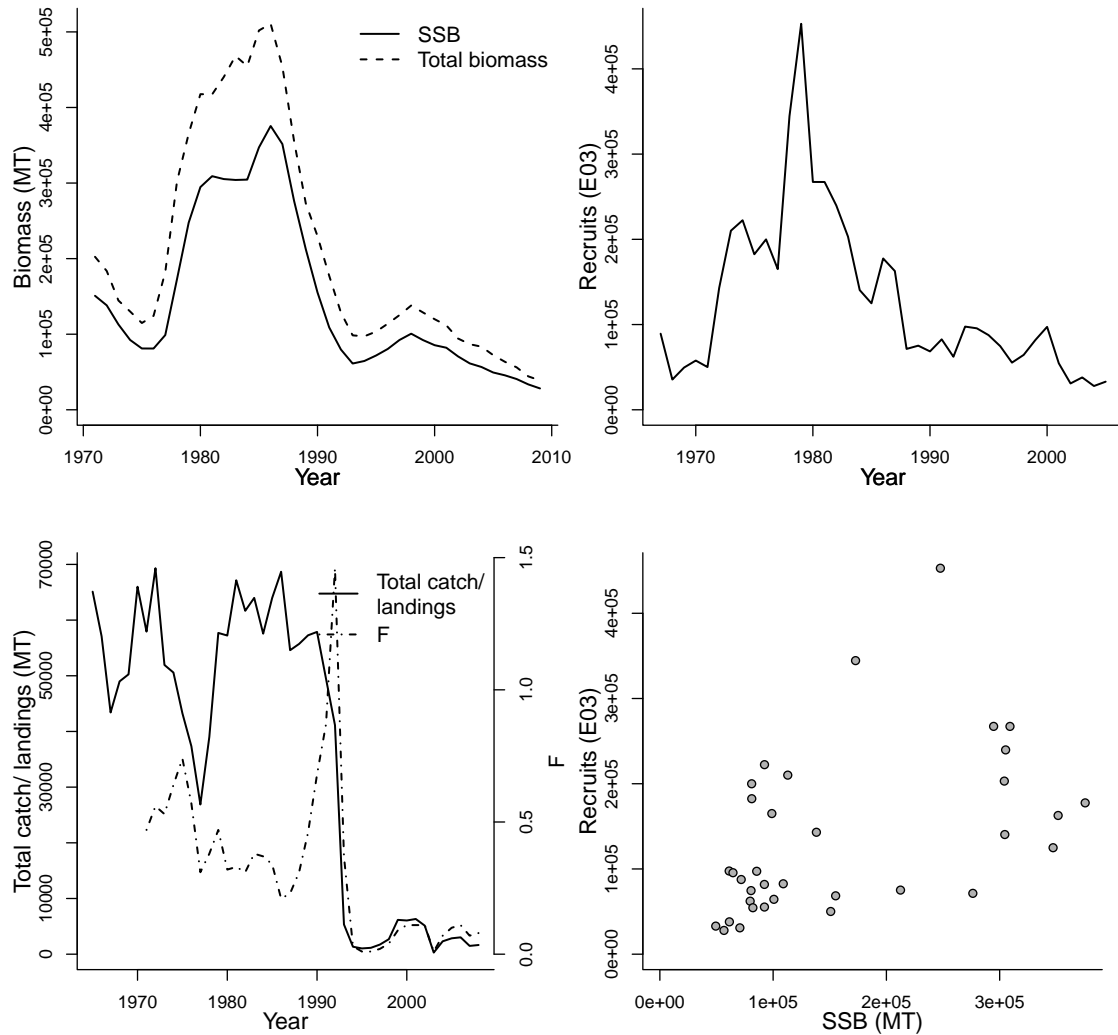
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Southern Gulf Region
Assessment authors	Swain, D.P.
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	2009
Timeseries span	1965-2009
Document	Swain2009-Assessment-of-Southern-Gulf-Cod.pdf (pdf in database)
Recorder	RICARD
Date entered	2011-03-01
Date last loaded	2011-03-01
QA/QC complete	YES
Date approved	2011-03-01

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

	primary LME	secondary LME	tertiary LME
	8 - Scotian Shelf	na	na
Parameter	Value	Units	
F-AGE-yr-yr	7+	yr-yr	
A50-yr	4-5	yr	
M-1/T	SEE TIMESERIES	1/T	
REC-AGE			Reference points
SSB-AGE-yr			Parameter Value Units
SSB-SEX-sex			Bcrp-MT 80000 MT
TB-AGE-yr			
M			
L50-cm			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1971	1967	1971	1971	1965
Maximum year	2009	2005	2008	2009	2008
Time series minimum	28235	27883	0.01	38776	289
Time series maximum	375498	452876	1.46	510714	69317
Units	MT	E03	1/T	MT	MT



Assessment of North-Central Peruvian coast peruvian anchoveta (*Engraulis ringens*)

Assessment ID:IMARPE-PANCHPERUNC-1963-2004-RICARD

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/458>

Area ID: Peru-IMARPE-NC

General assessment details.

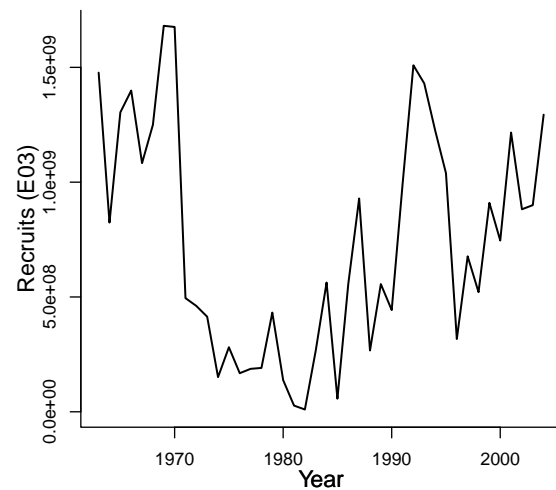
Detail	Value
Management body	IMARPE
Assessment group	Instituto del Mar del Peru
Assessment authors	Cahuin, Sandra M.
Assessment method	Virtual Population Analysis
Publication year	2009
Timeseries span	1963-2004
Document	Cahuin_etal.2009.pdf (pdf in database)
Recorder	RICARD
Date entered	2010-07-21
Date last loaded	2010-07-21
QA/QC complete	YES
Date approved	2010-07-21

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

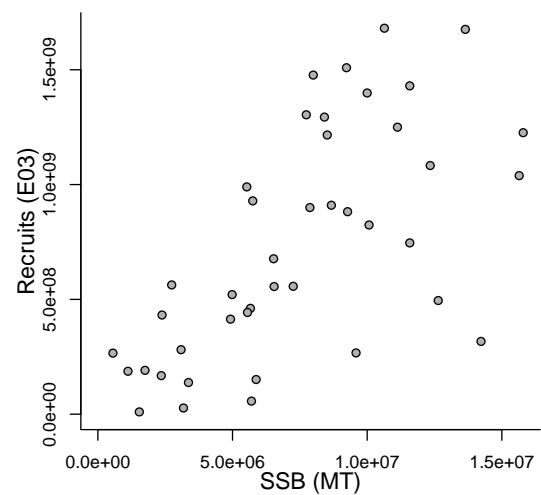
primary LME		secondary LME	tertiary LME
13 - Humboldt Current		na	na
Parameter	Value	Units	
REC-AGE-yr	0	yr	
SSB-AGE-yr			
SSB-SEX-sex			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points
Parameter Value Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1963	1963			
Maximum year	2004	2004			
Time series minimum	561000	10000000			
Time series maximum	15792000	1681000000			
Units	MT	E03			



No exploitation
data available



Assessment of Chilean EEZ and offshore chilean jack mackerel (*Trachurus murphyi*)

Assessment ID:SPRFMO-CHTRACCH-1950-2010-RICARD

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/424>

Area ID: multinational-SPRFMO-CH

General assessment details.

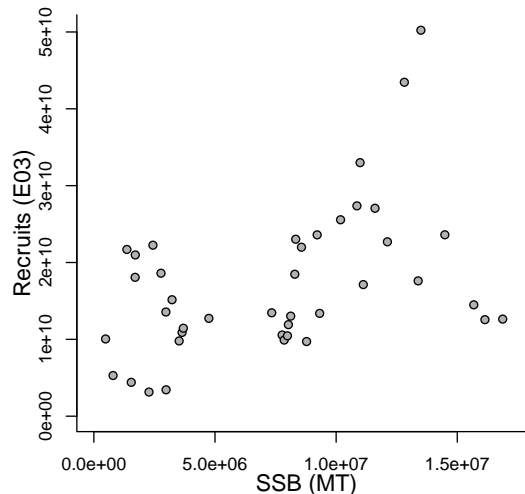
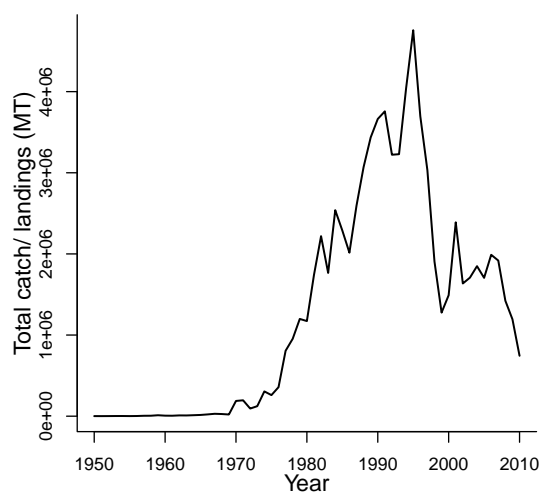
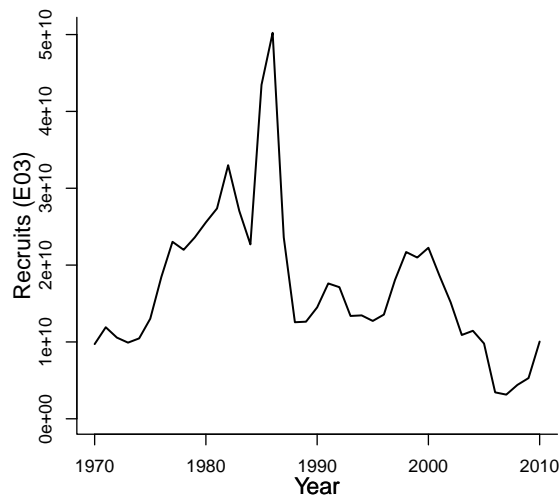
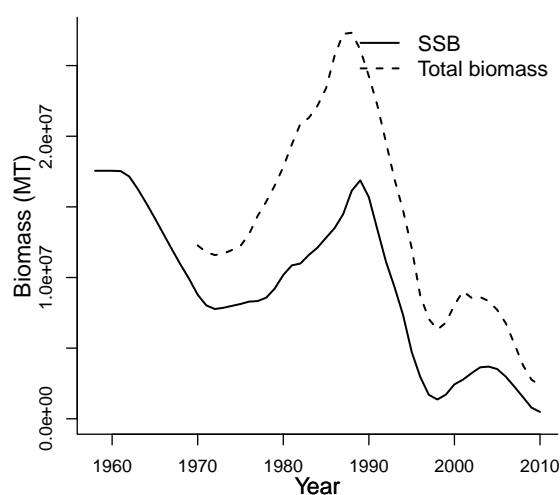
Detail	Value
Management body	SPRFMO
Assessment group	South Pacific Regional Fisheries Management Organization
Assessment authors	South Pacific Regional Fisheries Management Organisation
Assessment method	Joint Jack Mackerel
Publication year	2010
Timeseries span	1950-2010
Document	9th-SWG-Report-Final-Adopted-28Oct2010.pdf (pdf in database)
Recorder	RICARD
Date entered	2011-02-28
Date last loaded	2011-02-28
QA/QC complete	YES
Date approved	2011-02-28

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

primary LME		secondary LME	tertiary LME
13 - Humboldt Current		na	na
Parameter	Value	Units	
A50-yr	5	yr	
M-1/yr	0.23	1/yr	
REC-AGE			
SSB-AGE-yr			
SSB-SEX-sex			
TB-AGE-yr			
F-AGE-yr			
M			
L50-cm			

Reference points
Parameter Value Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1958	1970		1970	1950
Maximum year	2010	2010		2010	2010
Time series minimum	484120	3143930000		2362660	800
Time series maximum	17554500	50229100000		27321000	4756979
Units	MT	E03		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
 22. Hawaiian Trench
 23. Hawaiian Ridge
 24. Hawaiian Plateau
 25. Hawaiian Seamounts
 26. Hawaiian Trench
 27. Hawaiian Ridge
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 97. Hawaiian Seamounts
 98. Hawaiian Trench
 99. Hawaiian Ridge
 100. Hawaiian Plateau

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

