

Dear Daniel,

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 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

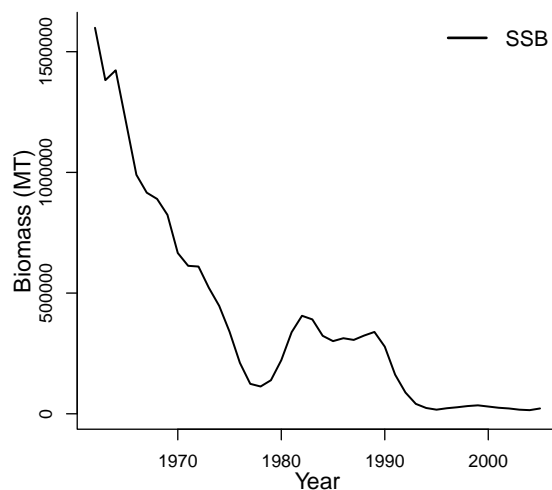
General assessment details.

| 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 | |

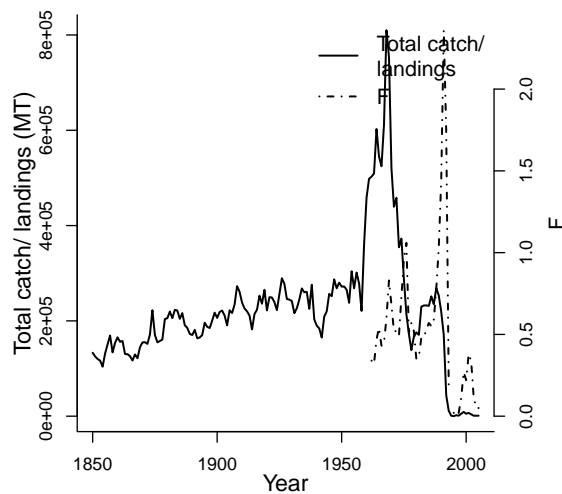
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

| 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 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.

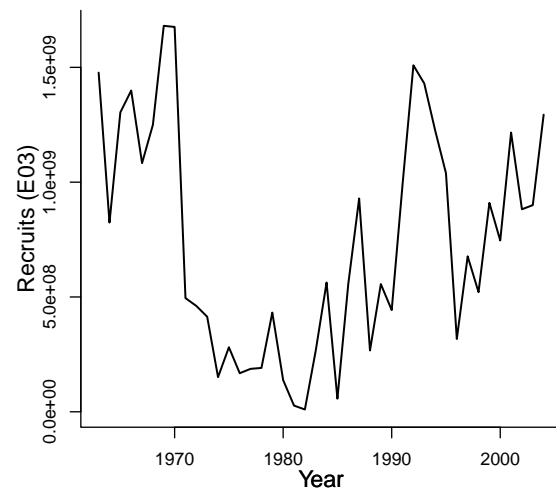
| Detail | Value |
|--------------------|--|
| Management body | IMARPE |
| Assessment group | Instituto del Mar del Peru |
| Assessment authors | Cahuin, Sandra M. |
| Assessment method | Virtual Population Analysis |
| Publication year | 2009 |
| Timeseries span | 1963-2004 |
| Document | Cahuin_etal.2009.pdf (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.

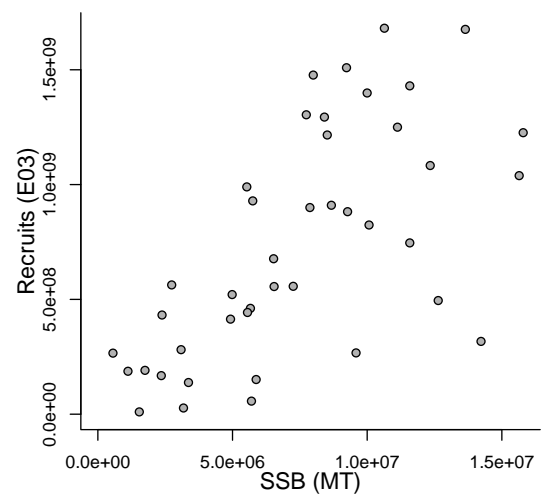
| primary LME | | secondary LME | tertiary LME |
|-----------------------|-------|---------------|--------------|
| 13 - Humboldt Current | | na | na |
| Parameter | Value | Units | |
| REC-AGE-yr | 0 | yr | |
| SSB-AGE-yr | | | |
| SSB-SEX-sex | | | |
| TB-AGE-yr | | | |
| F-AGE-yr | | | |
| M | | |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

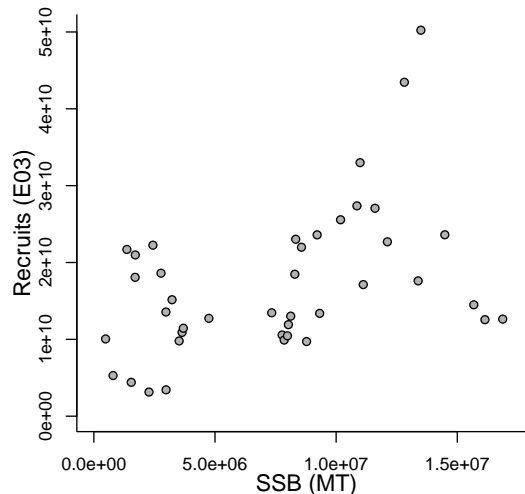
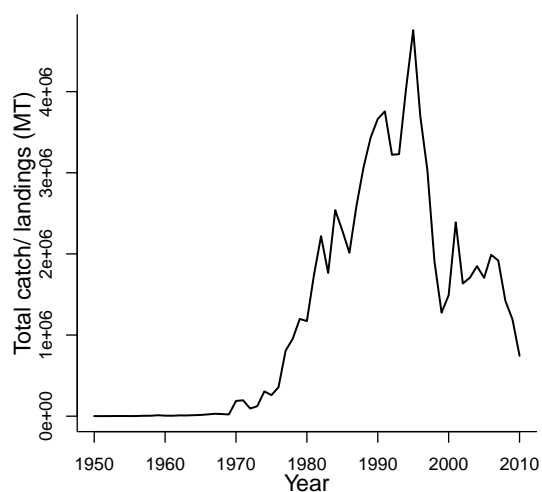
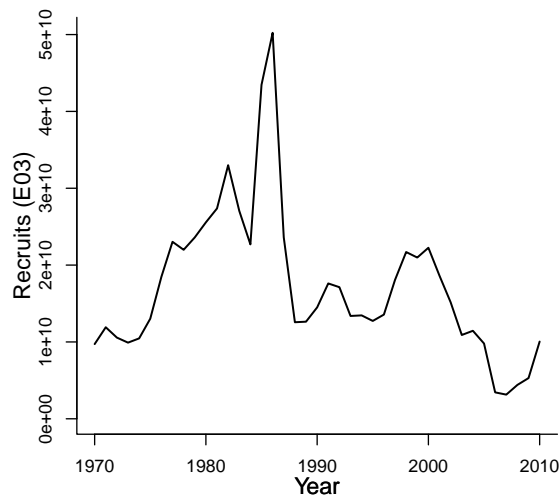
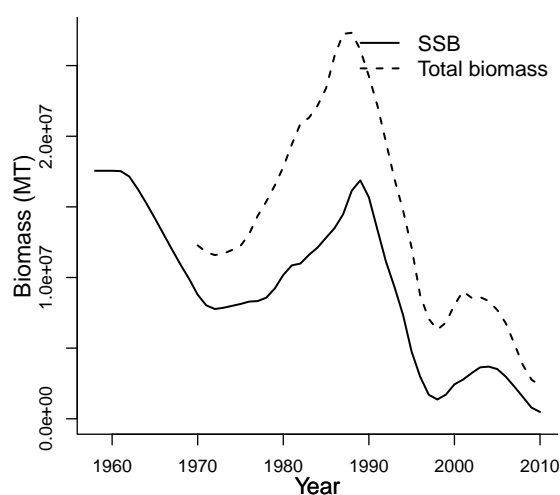
| Detail | Value |
|--------------------|--|
| Management body | SPRFMO |
| Assessment group | South Pacific Regional Fisheries Management Organization |
| Assessment authors | South Pacific Regional Fisheries Management Organisation |
| Assessment method | Joint Jack Mackerel |
| Publication year | 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 |



MAP KEY:

- Large Marine Ecosystems
Watershed Bounds
Political Borders



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