Dear Renee,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 31 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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|--|
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| DFO-HAD4X5Y-1960-2003-PREFONTAINE |
| DFO-HAD5Zejm-1969-2003-PREFONTAINE |
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| DFO-MAR-BSKATCANATL-1970-1987-PREFONTAINE |
| DFO-MAR-COD4VsW-1958-2002-PREFONTAINE |
| DFO-MAR-WHAKE4VWX5-1964-2005-PREFONTAINE |
| DFO-NFLD-AMPL23K-1960-2004-PREFONTAINE |
| DFO-NFLD-AMPL3Ps-1960-2005-PREFONTAINE |
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| LME map |

Assessment of Georges Bank atlantic cod (Gadus morhua) Assessment ID:DFO-COD5Zjm-1978-2003-PREFONTAINE

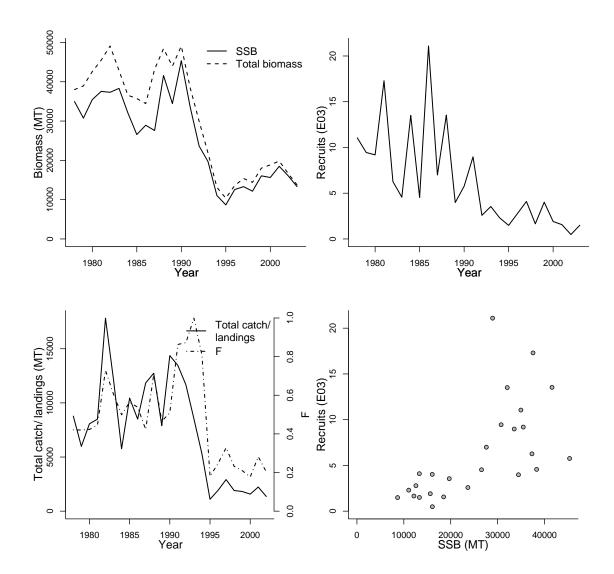
Area ID: Canada-DFO-5Zjm

General assessment details.

| Detail | Value |
|--------------------|--|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans |
| Assessment authors | Hunt, J.J. |
| 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 | 2003 |
| Timeseries span | 1978-2003 |
| Document | NAFO-COD5Zjm-2003.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| SSB-AGE-yr | 3+ | yr | | | |
| REC-AGE-yr | 1+ | yr | | | |
| TB-AGE-yr | 1-10 | yr | | | |
| M-1/T | 0.2 | 1/T | Referen | ice poin | ıts |
| F-AGE-yr | | | Parameter | - | Units |
| M | | | | | |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | |
|-------------------------------|-------|--------|-------|-------|-------|
| | SSB | R | F | TB | Catch |
| Minimum year | 1978 | 1978 | 1978 | 1978 | 1978 |
| Maximum year | 2003 | 2003 | 2002 | 2003 | 2002 |
| Time series minimum | 8667 | 0.485 | 0.177 | 10384 | 1100 |
| Time series maximum | 45343 | 21.094 | 0.999 | 49102 | 17824 |
| Units | MT | E03 | 1/T | MT | MT |



Assessment of Western Scotian Shelf, Bay of Fundy and Gulf of Maine haddock

(Melanogrammus aeglefinus) Assessment ID:DFO-HAD4X5Y-1960-2003-PREFONTAINE

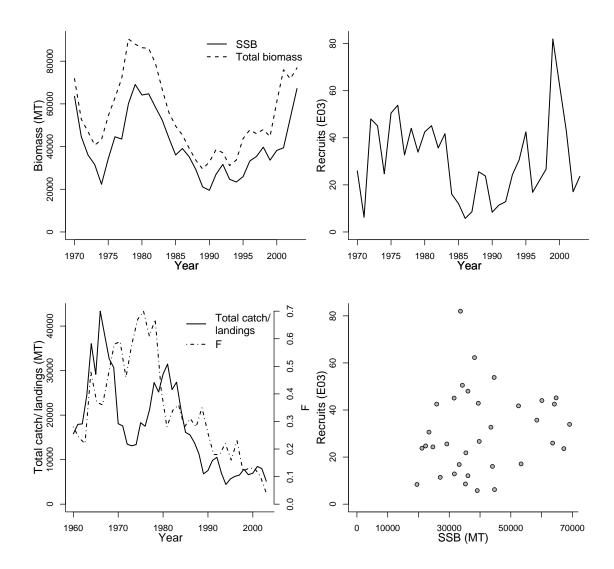
Area ID: Canada-DFO-4X5Y

General assessment details.

| Detail | Value |
|--------------------|---|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans |
| Assessment authors | Hurley, P.C.F. |
| 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 | 2003 |
| Timeseries span | 1960-2003 |
| Document | NAFO-HAD4X5Y-2003.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| SSB-AGE-yr | 4+ | yr | | | |
| REC-AGE-yr | 1 | yr | | | |
| TB-AGE-yr | 1-10 | yr | | | |
| M-1/T | 0.2 | 1/T | Referen | ice poin | ıts |
| F-AGE-yr | | | Parameter | - | Units |
| M | | | | | |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | | |
|-------------------------------|-------|--------|------|-------|-------|--|
| SSB R F TB Catch | | | | | | |
| Minimum year | 1970 | 1970 | 1970 | 1970 | 1960 | |
| Maximum year | 2003 | 2003 | 2003 | 2003 | 2003 | |
| Time series minimum | 19506 | 5.765 | 0.04 | 29495 | 4406 | |
| Time series maximum | 69091 | 81.978 | 0.7 | 90408 | 43349 | |
| Units | MT | E03 | 1/T | MT | MT | |



Assessment of Georges Bank haddock (Melanogrammus aeglefinus) Assessment ID:DFO-HAD5Zejm-1969-2003-PREFONTAINE

Area ID: Canada-DFO-5Zejm

General assessment details.

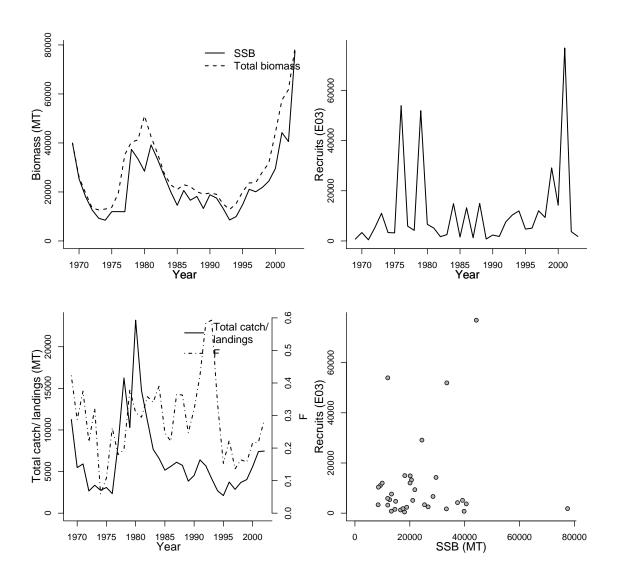
| Detail | Value |
|--------------------|---|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans |
| Assessment authors | Van Eeckhaute, L. |
| Assessment method | A general approach to fitting VPA models. |
| | ADAPT is based on minimising the sum- |
| | of-squares over any number of indices of |
| | abundance to find best-fit parameters. |
| Publication year | 2003 |
| Timeseries span | 1969-2003 |
| Document | NAFO-HAD5Zejm-2003.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| 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

| Parameter | Value | Units | | | |
|--------------------|-------------|-----------|--------------|----------|----|
| SSB-AGE-yr | 3+ | yr | | | |
| REC-AGE-yr | 1+ | yr | | | |
| TB-AGE-yr M-1/T | 1-9+ 0.2 | yr 1/T | Referen | ice poin | ts |
| F-AGE-yr | 0.2 | 1/1 | Parameter | Value | U |
| M | | | Fref-1/T (F) | 0.26 | 1, |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|
| | SSB | R | F | TB | Catch |
| Minimum year | 1969 | 1969 | 1969 | 1969 | 1969 |
| Maximum year | 2003 | 2003 | 2002 | 2003 | 2002 |
| Time series minimum | 8458 | 456 | 0.059 | 12672 | 2112 |
| Time series maximum | 77501 | 76905 | 0.593 | 78763 | 23193 |
| Units | MT | E03 | 1/T | MT | MT |



Assessment of Scotian Shelf and Bay of Fundy herring (Clupea harengus) Assessment ID:DFO-HERR4VWX-1965-2006-PREFONTAINE

Area ID: Canada-DFO-4VWX

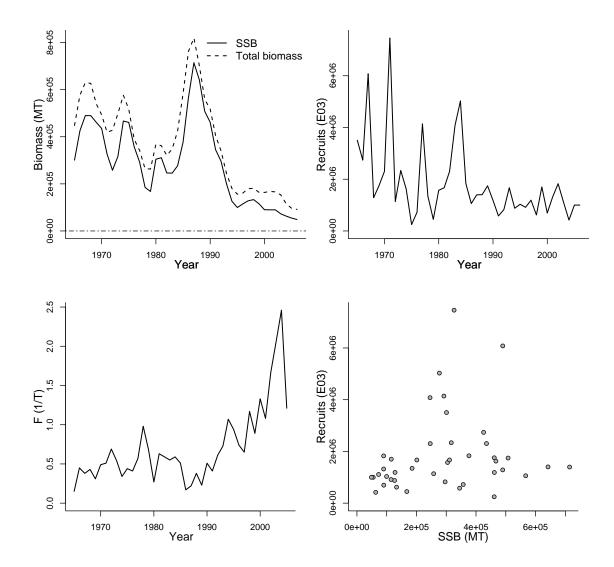
General assessment details.

| Detail | Value |
|--------------------|---|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans |
| Assessment authors | Power, M.J. |
| 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 | 2006 |
| Timeseries span | 1965-2006 |
| Document | NAFO-HERR4VWX-2006.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units |
|---------------|-------|-------|
| SSB-AGE-yr | 3+ | yr |
| REC-AGE-yr | 1 | yr |
| TB-AGE-yr | NA | yr |
| A50-yr | 3 | yr |
| M-1/T | 0.2 | 1/T |
| F-AGE-yr | | |
| M | | |
| L50-cm | | |
| MORATOR-yr-yr | | |
| LME | | |

| Reference points | | | | | | |
|------------------|--|---------------|--|--|--|--|
| Parameter | Value | Units | | | | |
| | 4 to 8 compared with ages 5-9 the following year | dimensionless | | | | |
| Bmsy-MT (TB) | SEE NOTES | MT | | | | |
| F0.1-1/yr (F) | 0.23 | 1/yr | | | | |

| Time series minima and maxima | | | | | | | | | |
|--|------|------|------|------|--|--|--|--|--|
| SSB R F TB Catch | | | | | | | | | |
| Minimum year | 1965 | 1965 | 1965 | 1965 | | | | | |
| Maximum year 2006 2006 2005 2006 | | | | | | | | | |
| Time series minimum 48646 247148 0.15 91734 | | | | | | | | | |
| Time series maximum 714331 7460417 2.46 819446 | | | | | | | | | |
| Units | | | | | | | | | |



Assessment of Canadian Atlantic Ocean barndoor skate (*Dipturus laevis*) Assessment ID:DFO-MAR-BSKATCANATL-1970-1987-PREFONTAINE

Area ID: Canada-DFO-ATL

General assessment details.

| Detail | Value |
|--------------------|--|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Maritimes Region |
| Assessment authors | Simon, James E. |
| Assessment method | Temporal indices derived from scientific |
| | survey data |
| Publication year | 2002 |
| Timeseries span | 1970-1987 |
| Document | NAFO-BARNSK-2002.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| REC-AGE | | | | | |
| SSB-AGE-yr | | | | | |
| TB-AGE-yr | | | | | |
| F-AGE-yr | | | Referei | nce poin | ıts |
| M | | | Parameter | Value | Units |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

Time series minima and maxima

SSB R F TB Catch

Minimum year Maximum year Time series minimum Time series maximum Units

No biomass data available

No recruitment data available

No exploitation data available

Assessment of Eastern Scotian Shelf atlantic cod (Gadus morhua) Assessment ID:DFO-MAR-COD4VsW-1958-2002-PREFONTAINE

Area ID: Canada-DFO-4VsW

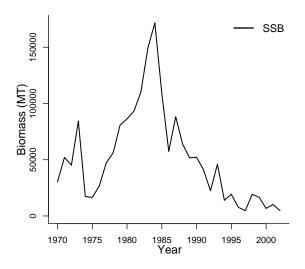
General assessment details.

| Detail | Value |
|--------------------|--------------------------------------|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Maritimes Region |
| Assessment authors | Fanning, L.P. |
| Assessment method | Unknown |
| Publication year | 2003 |
| Timeseries span | 1958-2002 |
| Document | NAFO-COD4VsW-2003.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

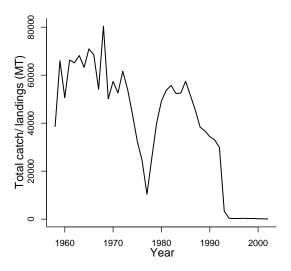
| Parameter | Value | Units |
|---------------|---|-------|
| A50-yr | 3 | yr |
| L50-cm | SEE FIGURES 15 AND 16 OF THE ASSESSMENT | cm |
| MORATOR-yr-yr | 1993-2008 | yr-yr |
| REC-AGE | | |
| SSB-AGE-yr | | |
| TB-AGE-yr | | |
| F-AGE-yr | | |
| M | | |
| LME | | |

| Reference points | | | | | | |
|------------------|-----------|-------|--|--|--|--|
| Parameter | Value | Units | | | | |
| MORATOR-yr-yr | 1993-2008 | yr-yr | | | | |
| SSBrecovery-MT | 16420 | MT | | | | |
| SSBnp50-MT | 53990 | MT | | | | |
| SSBrk50-MT | 23940 | MT | | | | |
| SSBbh50-MT | 33670 | MT | | | | |

| Time series minima and maxima | | | | | |
|-------------------------------|----------|---|---|----|-------|
| | SSB | R | F | TB | Catch |
| Minimum year | 1970 | | | | 1958 |
| Maximum year | 2002 | | | | 2002 |
| Time series minimum | 4607 | | | | 83 |
| Time series maximum | 171591.6 | | | | 80428 |
| Units | MT | | | | MT |



No recruitment data available



No SSB-recruit data available

Assessment of Scotian Shelf, Bay of Fundy and Georges Bank white hake (*Urophycis tenuis*) Assessment ID:DFO-MAR-WHAKE4VWX5-1964-2005-PREFONTAINE

Area ID: Canada-DFO-4VWX5

General assessment details.

| Detail | Value |
|--------------------|--------------------------------------|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Maritimes Region |
| Assessment authors | Bundy, A. |
| Assessment method | Unknown |
| Publication year | 2005 |
| Timeseries span | 1964-2005 |
| Document | NULL (pdf not in database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-11 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| REC-AGE | | | | | |
| SSB-AGE-yr | | | | | |
| TB-AGE-yr | | | | • | _ |
| F-AGE-yr | | | Referei | nce poin | its |
| M | | | Parameter | Value | Units |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

No biomass data available

No recruitment data available

No exploitation data available

Assessment of Labrador - NE Newfoundland american plaice (*Hippoglossoides platessoides*) Assessment ID:DFO-NFLD-AMPL23K-1960-2004-PREFONTAINE

Area ID: multinational-NAFO-23K

General assessment details.

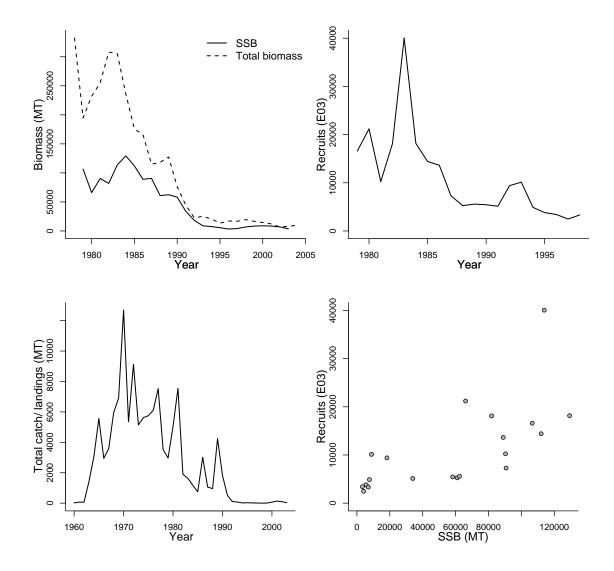
| Detail | Value |
|--------------------|--------------------------------------|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Newfoundland Region |
| Assessment authors | Dwyer, K.S. |
| Assessment method | Unknown |
| Publication year | 2003 |
| Timeseries span | 1960-2004 |
| Document | NAFO-AMPL23K-2003.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

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

| Parameter | Value | Units |
|---------------|-------------------------------------|-------|
| REC-AGE-yr | 3+ | yr |
| TB-AGE-yr | 0-19 | yr |
| A50-yr | FOUND AS A TIME SERIES IN FIGURE 10 | yr |
| L50-cm | FOUND AS A TIME SERIES IN FIGURE 11 | cm |
| SSB-AGE-yr | | |
| F-AGE-yr | | |
| M | | |
| MORATOR-yr-yr | | |
| LME | | |

Reference points Parameter Value Units

| Time series minima and maxima | | | | | | | |
|---|------|------|--|------|------|--|--|
| SSB R F TB Catch | | | | | | | |
| Minimum year | 1979 | 1979 | | 1978 | 1960 | | |
| Maximum year | 2003 | 1998 | | 2004 | 2003 | | |
| Time series minimum 3350 2470 6820 2 | | | | | | | |
| Time series maximum 129310 40050 332410 12686 | | | | | | | |
| Units | MT | E03 | | MT | MT | | |



Assessment of St. Pierre Bank american plaice (Hippoglossoides platessoides) Assessment ID:DFO-NFLD-AMPL3Ps-1960-2005-PREFONTAINE

Area ID: Canada-DFO-3Ps

General assessment details.

| Detail | Value |
|--------------------|--------------------------------------|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Newfoundland Region |
| Assessment authors | Morgan, M.J. |
| Assessment method | Unknown |
| Publication year | 2005 |
| Timeseries span | 1960-2005 |
| Document | NAFO-AMPL3Ps-2005.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

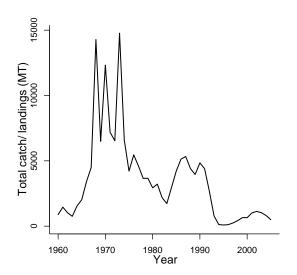
| Parameter | Value | Units |
|---------------|--------------|-------|
| MORATOR-yr-yr | 1993-present | yr-yr |
| REC-AGE | | |
| SSB-AGE-yr | | |
| TB-AGE-yr | | |
| F-AGE-yr | | |
| M | | |
| A50-yr | | |
| L50-cm | | |
| LME | | |

| Reference points | | | | |
|-----------------------|--------------|-------|--|--|
| Parameter Value Units | | | | |
| Blim-MT (SSB) | 7.7-16.2 | MT | | |
| MORATOR-yr-yr | 1993-present | yr-yr | | |

| Time series minima and maxima | | | | | | |
|-------------------------------|-----|---|---|----|-------|--|
| | SSB | R | F | TB | Catch | |
| Minimum year | | | | | 1960 | |
| Maximum year | | | | | 2005 | |
| Time series minimum | | | | | 90 | |
| Time series maximum | | | | | 14769 | |
| Units | | | | | MT | |

No biomass data available

No recruitment data available



Assessment of Southern Labrador-Eastern Newfoundland atlantic cod (*Gadus morhua*) Assessment ID:DFO-NFLD-COD2J3KLIS-1959-2006-PREFONTAINE

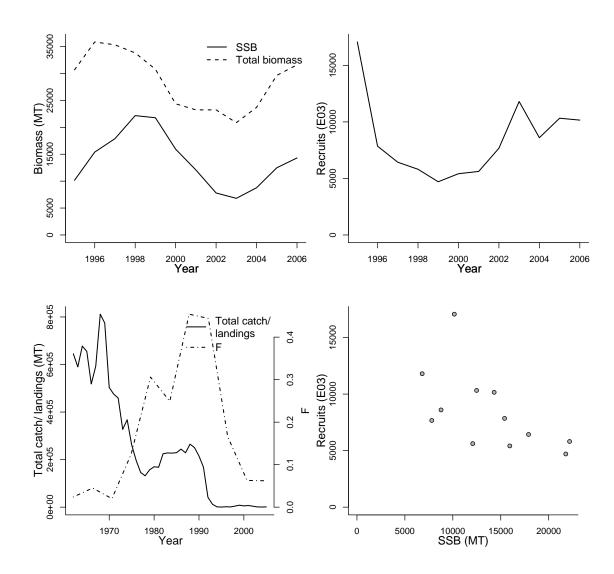
Area ID: Canada-DFO-2J3KL

General assessment details.

| Detail | Value |
|--------------------|---|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Newfoundland Region |
| Assessment authors | Lilly, G.R. |
| 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 | 2006 |
| Timeseries span | 1959-2006 |
| Document | DFO-COD2J3KLIS-2006.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| SSB-AGE-yr | 2+ | yr | | | |
| REC-AGE-yr | 3 | yr | | | |
| A50-yr | 6-7 | yr | | | |
| M-1/T | 0.4 | 1/T | Referen | nce poin | ıts |
| TB-AGE-yr | | | Parameter | - | Units |
| F-AGE-yr | | | | | |
| M | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | | | |
|-------------------------------|-------|-------|-------|-------|--------|--|--|
| SSB R F TB Catch | | | | | | | |
| Minimum year | 1995 | 1995 | 1995 | 1995 | 1962 | | |
| Maximum year | 2006 | 2006 | 2005 | 2006 | 2005 | | |
| Time series minimum | 6804 | 4705 | 0.02 | 20866 | 411 | | |
| Time series maximum | 22178 | 17068 | 0.454 | 35864 | 811698 | | |
| Units | MT | E03 | 1/T | MT | MT | | |



Assessment of St. Pierre Bank atlantic cod (Gadus morhua) Assessment ID:DFO-NFLD-COD3Ps-1959-2004-PREFONTAINE

Area ID: Canada-DFO-3Ps

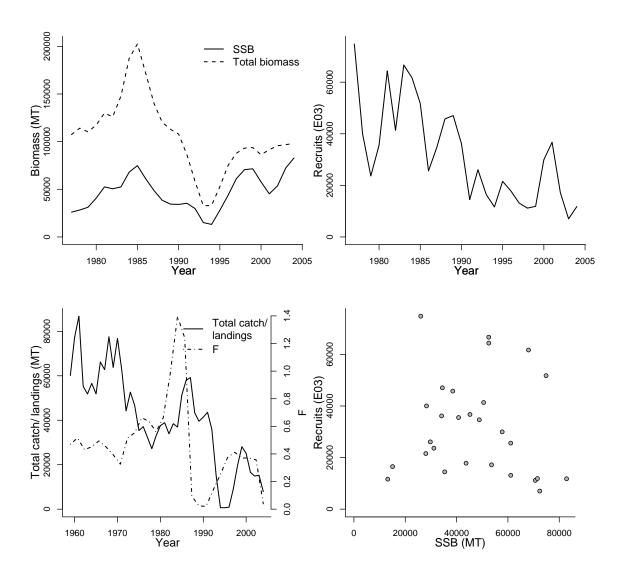
General assessment details.

| Detail | Value | | | |
|--------------------|---|--|--|--|
| Management body | DFO | | | |
| Assessment group | Department of Fisheries and Oceans - | | | |
| | Newfoundland Region | | | |
| Assessment authors | Brattey, J. | | | |
| Assessment method | The ADAPT approach with year effects in | | | |
| | a catch multiplier | | | |
| Publication year | 2004 | | | |
| Timeseries span | 1959-2004 | | | |
| Document | DFO-COD3Ps-2004.pdf (pdf not in | | | |
| | database) | | | |
| Recorder | PREFONTAINE | | | |
| Date entered | 2009-03-10 | | | |

| Parameter | Value | Units |
|---------------|-----------|-------|
| A50-yr | 7-8 | yr |
| M-1/T | 0.2 | 1/T |
| MORATOR-yr-yr | 1993-1997 | yr-yr |
| REC-AGE | | |
| SSB-AGE-yr | | |
| TB-AGE-yr | | |
| F-AGE-yr | | |
| M | | |
| L50-cm | | |
| LME | | |

| Reference points | | | | | |
|------------------|-----------|-------|--|--|--|
| Parameter | Units | | | | |
| MORATOR-yr-yr | 1993-1997 | yr-yr | | | |
| SSBrecovery-1-MT | 36000 | MT | | | |

| Time series minima and maxima | | | | | | |
|-------------------------------|-------|-------|-------|--------|-------|--|
| SSB R F TB Catch | | | | | | |
| Minimum year | 1977 | 1977 | 1977 | 1977 | 1959 | |
| Maximum year | 2004 | 2004 | 2004 | 2004 | 2004 | |
| Time series minimum | 13173 | 7014 | 0.021 | 32591 | 641 | |
| Time series maximum | 82857 | 74809 | 1.398 | 202478 | 86824 | |
| Units | MT | E03 | 1/T | MT | MT | |



Assessment of Labrador Shelf-Grand Banks-S. Pierre Bank monkfish (*Lophius americanus*)

Assessment

ID:DFO-NFLD-MONK2J3KLNOPs-1985-2000-PREFONTAINE

Area ID: Canada-DFO-2J3KLNOPs

General assessment details.

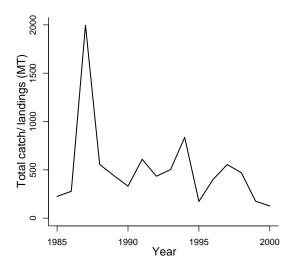
| Detail | Value |
|--------------------|--------------------------------------|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Newfoundland Region |
| Assessment authors | Kulka, D.W. |
| Assessment method | Unknown |
| Publication year | 2001 |
| Timeseries span | 1985-2000 |
| Document | NAFO-MONK2J3KLNOPs-2001.pdf (pdf |
| | not in database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| REC-AGE | | | | | |
| SSB-AGE-yr | | | | | |
| TB-AGE-yr | | | | | |
| F-AGE-yr | | | | ice poin | |
| M | | | Parameter | Value | Units |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | |
|-------------------------------|-----|---|---|----|-------|
| | SSB | R | F | TB | Catch |
| Minimum year | | | | | 1985 |
| Maximum year | | | | | 2000 |
| Time series minimum | | | | | 126 |
| Time series maximum | | | | | 1997 |
| Units | | | | | MT |

No biomass data available

No recruitment data available



Assessment of Labrador - NE Newfoundland redfish species (*Redfish species*)

Assessment

ID:DFO-NFLD-REDFISHSPP23K-1959-2001-PREFONTAINE

Area ID: Canada-DFO-23K

General assessment details.

| Detail | Value |
|--------------------|--------------------------------------|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Newfoundland Region |
| Assessment authors | Power, D. |
| Assessment method | Unknown |
| Publication year | 2001 |
| Timeseries span | 1959-2001 |
| Document | NULL (pdf not in database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-11 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|------------------|----------|-------|
| REC-AGE | | | | | |
| SSB-AGE-yr | | | | | |
| TB-AGE-yr | | | Referen | ce point | s |
| F-AGE-yr | | | Parameter | Value | Units |
| M A50-yr | | | F0.1-1/yr (F) | 0.12 | 1/yr |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

No biomass data available

No recruitment data available

No exploitation data available

Assessment of Scotian Shelf, Bay of Fundy and Georges Bank pollock (*Pollachius virens*) Assessment ID:DFO-POLL4VWX5Zc-1974-2007-PREFONTAINE

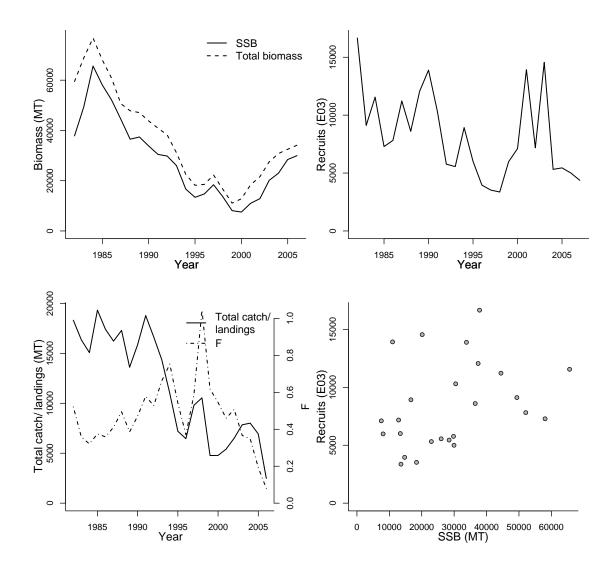
Area ID: Canada-DFO-4VWX5Zc

General assessment details.

| Detail | Value |
|--------------------|---|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans |
| Assessment authors | Stone, Heath |
| 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 | 2006 |
| Timeseries span | 1974-2007 |
| Document | NAFO-POLL4VWX5Zc-2006.pdf (pdf not |
| | in database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| SSB-AGE-yr | 4+ | yr | | | |
| REC-AGE-yr | 2+ | yr | | | |
| M-1/T | 0.2 | 1/T | | | |
| TB-AGE-yr | | | Referen | ice poin | ıts |
| F-AGE-yr | | | Parameter | - | Units |
| M | | | | | |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|--|--|
| | SSB | R | F | TB | Catch | | |
| Minimum year | 1982 | 1982 | 1982 | 1982 | 1982 | | |
| Maximum year | 2006 | 2007 | 2006 | 2006 | 2006 | | |
| Time series minimum | 7524 | 3365 | 0.08 | 11074 | 2474 | | |
| Time series maximum | 65627 | 16664 | 1.045 | 76792 | 19323 | | |
| Units | MT | E03 | 1/T | MT | MT | | |



Assessment of Northern Gulf of St. Lawrence atlantic cod (*Gadus morhua*) Assessment ID:DFO-QUE-COD3Pn4RS-1964-2007-PREFONTAINE

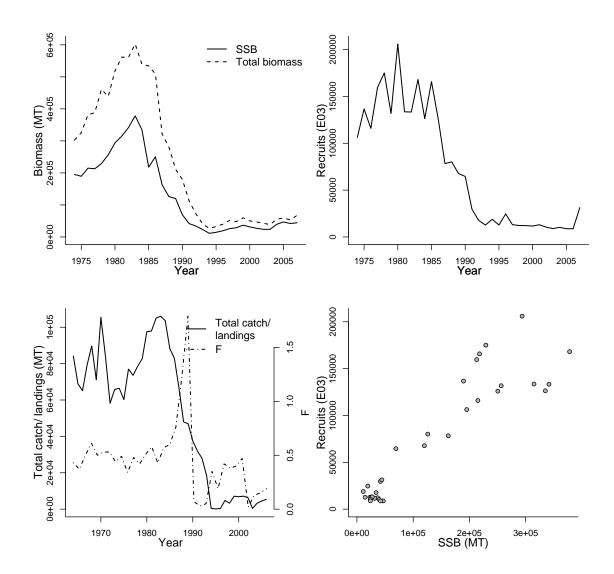
Area ID: Canada-DFO-3Pn4RS

General assessment details.

| Detail | Value |
|--------------------|---|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Quebec Region |
| Assessment authors | Frchet, Alain |
| 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 | 2007 |
| Timeseries span | 1964-2007 |
| Document | DFO-COD3Pn4Rs-2007.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|------------|-------|------------------|----------|-------|
| SSB-AGE-yr | 3+ | yr | | | |
| REC-AGE-yr | 3+ | yr | | | |
| A50-yr | 4-5 | yr | | | |
| M-1/T | timeseries | 1/T | Refere | nce poin | ıts |
| TB-AGE-yr | | | Parameter | - | Units |
| F-AGE-yr | | | | | |
| M | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | | |
|-------------------------------|--------|--------|------|--------|--------|--|
| | SSB | R | F | TB | Catch | |
| Minimum year | 1974 | 1974 | 1974 | 1974 | 1964 | |
| Maximum year | 2007 | 2007 | 2006 | 2007 | 2006 | |
| Time series minimum | 11307 | 8769 | 0.02 | 26347 | 148 | |
| Time series maximum | 378057 | 206009 | 1.79 | 602678 | 106080 | |
| Units | MT | E03 | 1/T | MT | MT | |



Assessment of Gulf of St. Lawrence greenland halibut (*Reinhardtius hippoglossoides*) Assessment ID:DFO-QUE-GHAL4RST-1970-2002-PREFONTAINE

Area ID: Canada-DFO-4RST

General assessment details.

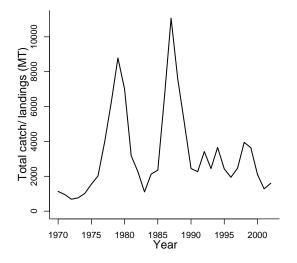
| Detail | Value |
|--------------------|--------------------------------------|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Quebec Region |
| Assessment authors | Bernier, B. |
| Assessment method | Unknown |
| Publication year | 2003 |
| Timeseries span | 1970-2002 |
| Document | NAFO-GHAL4RST-2003.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|------------------|-------|-------|
| REC-AGE | | | | | |
| SSB-AGE-yr | | | | | |
| TB-AGE-yr | | | | • | |
| F-AGE-yr | | | Reference points | | |
| M | | | Parameter | Value | Units |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | | | |
|-------------------------------|-----|---|---|----|-------|--|--|
| | SSB | R | F | TB | Catch | | |
| Minimum year | | | | | 1970 | | |
| Maximum year | | | | | 2002 | | |
| Time series minimum | | | | | 683 | | |
| Time series maximum | | | | | 11069 | | |
| Units | | | | | MT | | |

No biomass data available

No recruitment data available



Assessment of NAFO 4R herring (Clupea

harengus)
Assessment ID:DFO-QUE-HERR4RFA-1973-2003-PREFONTAINE

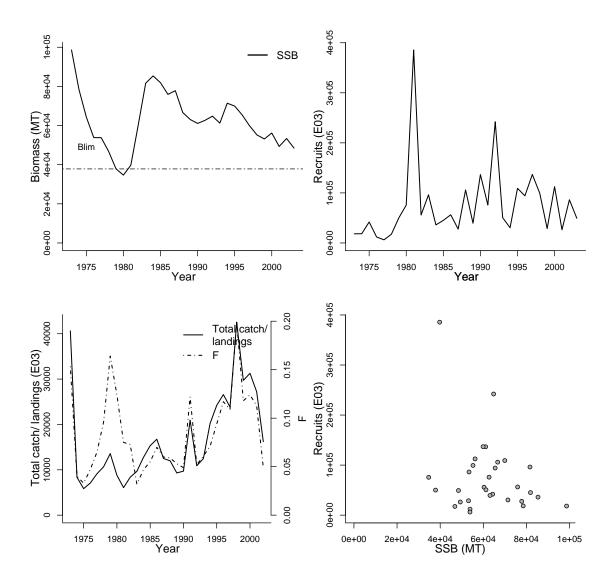
Area ID: Canada-DFO-4R

General assessment details.

| Detail | Value |
|--------------------|--|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Quebec Region |
| Assessment authors | Gregoire, Francois |
| Assessment method | Sequential Population Analysis / ADAPT |
| Publication year | 2004 |
| Timeseries span | 1973-2003 |
| Document | NAFO-HERR4RFA-2004.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---|-------|-------|---|-------------------------------|--------------------|
| SSB-AGE-yr | 2+ | yr | | | |
| REC-AGE-yr | 2 | yr | Reference | e points | j |
| A50-yr | 4-5 | yr | Parameter | Value | Unit |
| M-1/T TB-AGE-yr F-AGE-yr M L50-cm | 0.2 | 1/T | Blim-MT (SSB) F0.1-1/yr (F) Fmax-1/yr (F) SSB_{2003}/B_{lim} | 37831 0.3 0.55 1.282 | MT 1/yr 1/yr |
| MORATOR-yr-yr LME | | | | | |

| Time series minima and maxima | | | | | | |
|-------------------------------|-------|--------|-------|----|-------|--|
| | SSB | R | F | TB | Catch | |
| Minimum year | 1973 | 1973 | 1973 | | 1973 | |
| Maximum year | 2003 | 2003 | 2002 | | 2002 | |
| Time series minimum | 34671 | 6244 | 0.032 | | 5849 | |
| Time series maximum | 98616 | 385586 | 0.199 | | 42543 | |
| Units | MT | E03 | 1/T | | E03 | |



Assessment of NAFO 4R herring (Clupea

harengus)
Assessment ID:DFO-QUE-HERR4RSP-1965-2004-PREFONTAINE

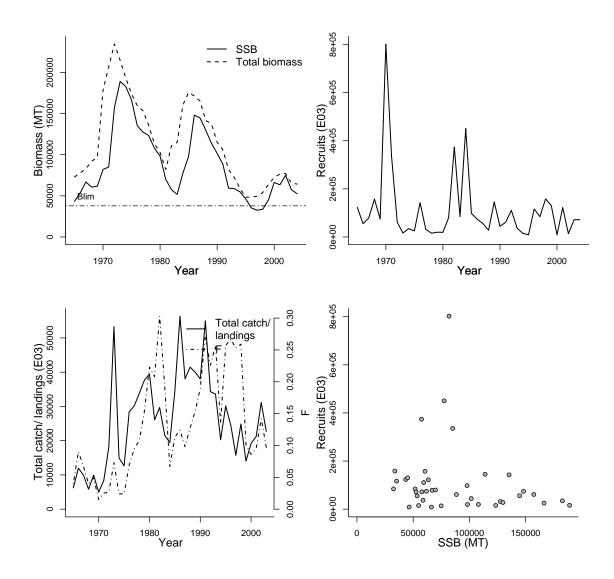
Area ID: Canada-DFO-4R

General assessment details.

| Detail | Value |
|--------------------|--|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Quebec Region |
| Assessment authors | Gregoire, Francois |
| Assessment method | Sequential Population Analysis / ADAPT |
| Publication year | 2004 |
| Timeseries span | 1965-2004 |
| Document | NAFO-HERR4RSP-2004.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|----------|-------|----------------------|----------|-------|
| SSB-AGE-yr | 2+ | yr | | | |
| REC-AGE-yr | 2 | yr | Reference | e points | 5 |
| A50-yr | 3-4 | yr | Parameter | Value | Units |
| M-1/T | 0.2 | 1/T | Blim-MT (SSB) | 37831 | MT |
| TB-AGE-yr | | | F0.1-1/yr (F) | 0.3 | 1/yr |
| F-AGE-yr | | | Fmax-1/yr (F) | 0.55 | 1/yr |
| M L50-cm | | | SSB_{2004}/B_{lim} | 1.390 | • |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | | | | |
|--|------|------|------|------|------|--|--|--|
| SSB R F TB Catch | | | | | | | | |
| Minimum year | 1965 | 1965 | 1965 | 1965 | 1965 | | | |
| Maximum year | 2004 | 2004 | 2003 | 2004 | 2003 | | | |
| Time series minimum 32559 8533 0.015 48431 4983 | | | | | | | | |
| Time series maximum 189156 802298 0.303 234686 56356 | | | | | | | | |
| Units | MT | E03 | 1/T | MT | E03 | | | |



Assessment of Gulf of St. Lawrence and Cabot Strait redfish species (*Redfish species*)

Assessment

ID:DFO-QUE-REDFISHSPP3Pn4RSTVn-1953-2000-PREFONTAINE

Area ID: Canada-DFO-3Pn4RSTVn

General assessment details.

| Detail | Value |
|--------------------|--|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Quebec Region |
| Assessment authors | Morin, B. |
| Assessment method | Temporal indices derived from scientific |
| | survey data |
| Publication year | 2001 |
| Timeseries span | 1953-2000 |
| Document | NULL (pdf not in database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-11 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| REC-AGE | | | | | |
| SSB-AGE-yr | | | | | |
| TB-AGE-yr | | | | | |
| F-AGE-yr | | | | ice poin | |
| M | | | Parameter | Value | Units |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

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

No biomass data available

No recruitment data available

No exploitation data available

Assessment of Southern Gulf of St. Lawrence atlantic cod (*Gadus morhua*) Assessment ID:DFO-SG-COD4TVn-1965-2007-PREFONTAINE

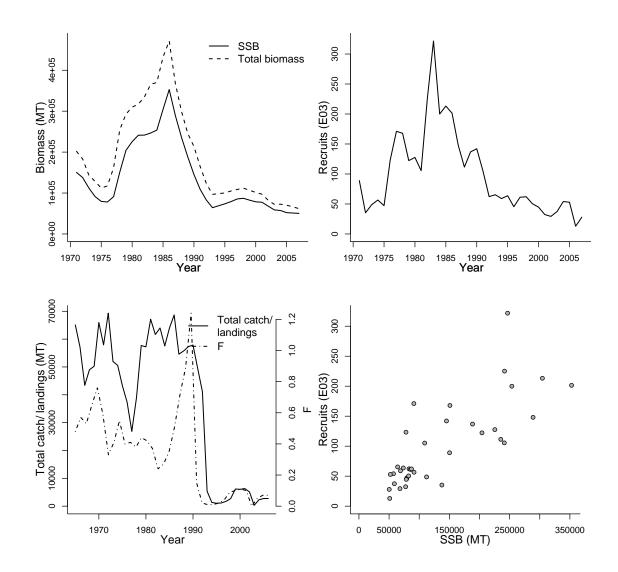
Area ID: Canada-DFO-4T

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 | 2007 |
| Timeseries span | 1965-2007 |
| Document | NAFO-COD4TVn-2007.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|----------------|-------|-----------|----------|-------|
| A50-yr | 4-5 | yr | | | |
| M-1/T | SEE TIMESERIES | 1/T | | | |
| REC-AGE | | | | | |
| SSB-AGE-yr | | | Refere | ice poir | ıts |
| TB-AGE-yr | | | Parameter | - | Units |
| F-AGE-yr | | | | | |
| M | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | | | | |
|--|------|------|------|------|------|--|--|--|
| SSB R F TB Catch | | | | | | | | |
| Minimum year | 1971 | 1971 | 1971 | 1971 | 1965 | | | |
| Maximum year | 2007 | 2007 | 2006 | 2007 | 2006 | | | |
| Time series minimum | | | | | | | | |
| Time series maximum 352804 321.751 1.24 471519 69317 | | | | | | | | |
| Units | MT | E03 | 1/T | MT | MT | | | |



Assessment of Southern Gulf of St. Lawrence

herring (Clupea harengus) Assessment ID:DFO-SG-HERR4TFA-1978-2007-PREFONTAINE

Area ID: Canada-DFO-4T

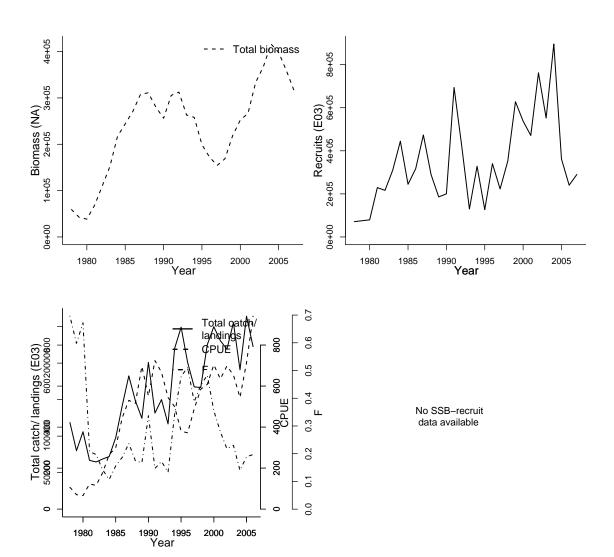
General assessment details.

| Detail | Value |
|--------------------|--|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Southern Gulf Region |
| Assessment authors | LeBlanc, C.H. |
| Assessment method | Sequential Population Analysis / ADAPT |
| Publication year | 2007 |
| Timeseries span | 1978-2007 |
| Document | NAFO-HERR4TFA-2007.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | |
|---------------|-------|-------|------------|
| REC-AGE-yr | 4 | yr | |
| TB-AGE-yr | 4+ | yr | |
| M-1/T | 0.2 | 1/T | I |
| SSB-AGE-yr | | | Param |
| F-AGE-yr | | | Busr-l |
| M | | | Blrp-M |
| A50-yr | | | - Dil p-iv |
| L50-cm | | | |
| MORATOR-yr-yr | | | |
| LME | | | |
| | | | |

| Reference points | | | | | | | |
|------------------|--------|-------|--|--|--|--|--|
| Parameter | Value | Units | | | | | |
| Busr-MT | 172000 | MT | | | | | |
| Blrp-MT | 51000 | MT | | | | | |

| Time series minima and maxima | | | | | | | | |
|-------------------------------|--|--------|-------|--------|--------|--|--|--|
| SSB R F TB Catch | | | | | | | | |
| Minimum year | | 1978 | 1978 | 1978 | 1978 | | | |
| Maximum year | | 2007 | 2006 | 2007 | 2006 | | | |
| Time series minimum | | 71101 | 0.107 | 38470 | 64654 | | | |
| Time series maximum | | 896001 | 0.696 | 416422 | 264254 | | | |
| Units | | E03 | 1/T | MT | E03 | | | |



Assessment of Southern Gulf of St. Lawrence

herring (Clupea harengus)
Assessment ID:DFO-SG-HERR4TSP-1978-2007-PREFONTAINE

Area ID: Canada-DFO-4T

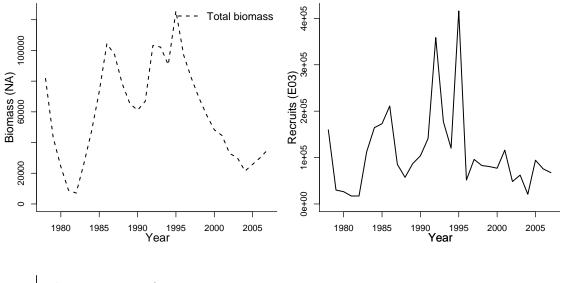
General assessment details.

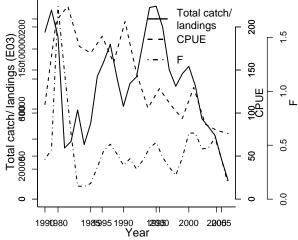
| Detail | Value |
|--------------------|--|
| Management body | DFO |
| Assessment group | Department of Fisheries and Oceans - |
| | Southern Gulf Region |
| Assessment authors | LeBlanc, C.H. |
| Assessment method | Sequential Population Analysis / ADAPT |
| Publication year | 2007 |
| Timeseries span | 1978-2007 |
| Document | NAFO-HERR4T-2007.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units |
|---------------|-------|-------|
| REC-AGE-yr | 4 | yr |
| TB-AGE-yr | 4-10 | yr |
| M-1/T | 0.2 | 1/T |
| SSB-AGE-yr | | |
| F-AGE-yr | | |
| M | | |
| A50-yr | | |
| L50-cm | | |
| MORATOR-yr-yr | | |
| LME | | |

| Reference points | | | | |
|------------------|-------|-------|--|--|
| Parameter | Value | Units | | |
| F0.1-1/yr (F) | 0.35 | 1/yr | | |
| Busr-MT | 54000 | MT | | |
| Blrp-MT | 22000 | MT | | |

| Time series minima and maxima | | | | | |
|-------------------------------|-----|--------|-------|--------|--------|
| | SSB | R | F | TB | Catch |
| Minimum year | | 1978 | 1978 | 1978 | 1978 |
| Maximum year | | 2007 | 2006 | 2007 | 2006 |
| Time series minimum | | 17034 | 0.117 | 7085 | 12464 |
| Time series maximum | | 415931 | 1.789 | 125698 | 128513 |
| Units | | E03 | 1/T | MT | E03 |





No SSB-recruit data available

Assessment of Grand Banks american plaice

(Hippoglossoides platessoides)
Assessment ID:NAFO-SC-AMPL3LNO-1960-2007-PREFONTAINE

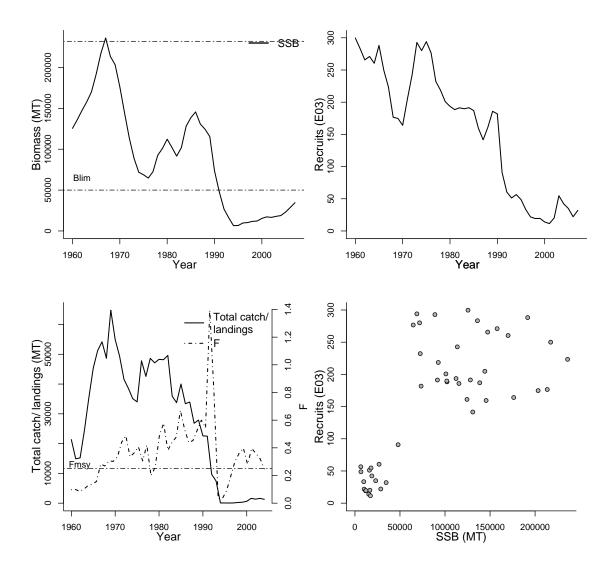
Area ID: multinational-NAFO-3LNO

General assessment details.

| Detail | Value |
|--------------------|---|
| Management body | NAFO |
| Assessment group | NAFO Scientific Council |
| Assessment authors | Dwyer, K.S. |
| 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 | 2005 |
| Timeseries span | 1960-2007 |
| Document | NAFO-AMPL3LNO-2005.pdf (pdf not in |
| | database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|--|----------------|-------|---|---|--------------------------|
| REC-AGE-yr | 5 | yr | Referen | ce points | |
| TB-AGE-yr | 5+ | yr | Parameter | Value | Units |
| M-1/T SSB-AGE-yr F-AGE-yr M A50-yr L50-cm MORATOR-yr-yr LME | SEE TIMESERIES | 1/T | Blim-MT (SSB) Bmsy-MT (TB) F0.1-1/yr (F) Fmsy-1/yr (F) SSB_{2007}/B_{lim} F_{2006}/F_{msy} | 50000 232000 0.19 0.25 0.693 0.992 | MT MT 1/yr 1/yr |

| Time series minima and maxima | | | | | |
|-------------------------------|-----------|-----------|-------|----|-------|
| | SSB | R | F | TB | Catch |
| Minimum year | 1960 | 1960 | 1960 | | 1960 |
| Maximum year | 2007 | 2007 | 2006 | | 2004 |
| Time series minimum | 6522.74 | 11.46947 | 0.033 | | 49 |
| Time series maximum | 236082.43 | 299.71077 | 1.395 | | 64815 |
| Units | MT | E03 | 1/T | | MT |



Assessment of Flemish Cap american plaice (Hippoglossoides platessoides) Assessment ID:NAFO-SC-AMPL3M-1960-2005-PREFONTAINE

Area ID: multinational-NAFO-3M

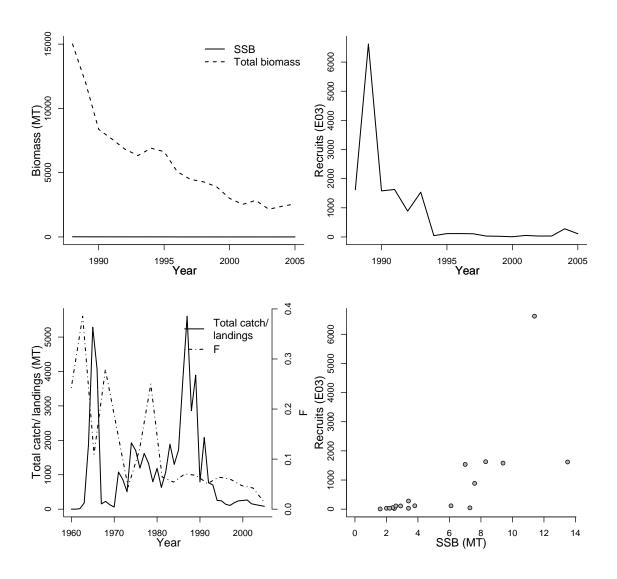
General assessment details.

| Detail | Value |
|--------------------|--|
| Management body | NAFO |
| Assessment group | NAFO Scientific Council |
| Assessment authors | Alpoim, R. |
| Assessment method | Extended Survivor Analysis |
| Publication year | 2006 |
| Timeseries span | 1960-2005 |
| Document | NAFO-AMPL3M-2006.pdf (pdf not in database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

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

| Parameter | Value | Units | | | |
|------------------|-----------|-------|------------------|---------|-------|
| SSB-AGE-yr | 5+ | yr | | | |
| REC-AGE-yr | SEE NOTES | yr | | | |
| M-1/T | 0.2 | 1/T | Reference | e point | s |
| TB-AGE-yr | | | Parameter | Value | Units |
| F-AGE-yr | | | F0.1-1/yr (F) | 0.165 | 1/yr |
| M | | | Fmax-1/yr (F) | 0.365 | 1/yr |
| A50-yr L50-cm | | | | | |
| | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | |
|-------------------------------|------|------|--------|-------|-------|
| | SSB | R | F | TB | Catch |
| Minimum year | 1988 | 1988 | 1988 | 1988 | 1960 |
| Maximum year | 2005 | 2005 | 2005 | 2005 | 2005 |
| Time series minimum | 1.6 | 7 | 0.0136 | 2154 | 0 |
| Time series maximum | 13.5 | 6621 | 0.3855 | 15012 | 5607 |
| Units | MT | E03 | 1/T | MT | MT |



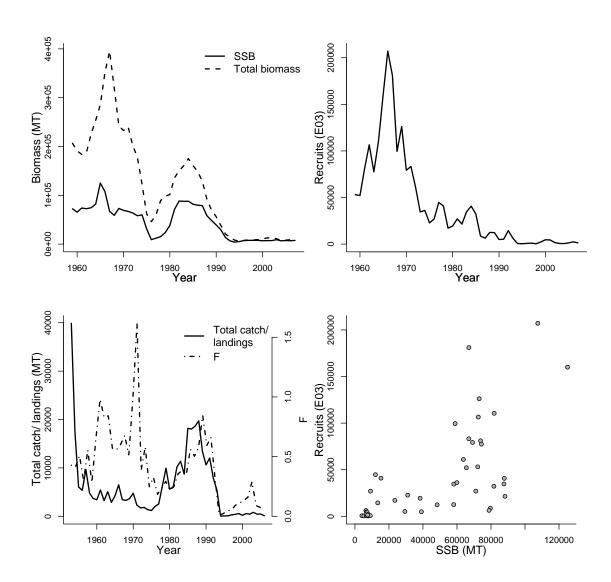
Assessment of Southern Grand Banks atlantic cod (Gadus morhua)

General assessment details:

| Detail | Value |
|--------------------|---|
| Management body | NAFO |
| Assessment group | NAFO Scientific Council |
| Assessment authors | Morgan, M.J. |
| 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. |
| Years | 1953-2007 |
| Document | NULL |
| Recorder | PREFONTAINE |
| Date entered | 2008-12-02 |

Timeseries and biometrics provided:

| Detail | Value |
|--------------------------|--|
| Timeseries Biometrics | F, R, SSB, TB, TC-1, TC-2, TC-3 A50, A50max, A50min, F-AGE, F-CALC, Habitat, M, MAT-CALC, MAT-MODEL, MAT-SEX, REC-AGE, SSB-AGE, TB- AGE, TB-TYPE |
| Reference points | AGE, IB IIIE |



Assessment of NAFO 01ABCDEF greenland

halibut (*Reinhardtius hippoglossoides*) Assessment ID:NAFO-SC-GHAL01ABCDEF-1987-2006-PREFONTAINE

Area ID: multinational-NAFO-01ABCDEF

General assessment details.

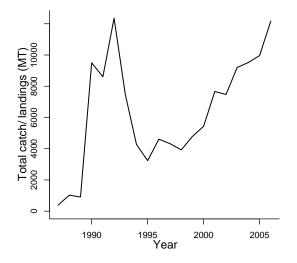
| Detail | Value | | | | | |
|--------------------|------------------------------------|--------|--|--|--|--|
| Management body | NAFO | | | | | |
| Assessment group | NAFO Scientific Council | | | | | |
| Assessment authors | Jrgensen, O.A. | | | | | |
| Assessment method | Temporal indices derived from scie | ntific | | | | |
| | survey data | | | | | |
| Publication year | 2007 | | | | | |
| Timeseries span | 1987-2006 | | | | | |
| Document | NAFO-GHAL01ABCDEF-2007.pdf | (pdf | | | | |
| | not in database) | _ | | | | |
| Recorder | PREFONTAINE | | | | | |
| Date entered | 2009-03-10 | | | | | |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| REC-AGE-yr | 1 | yr | | | |
| SSB-AGE-yr | | | | | |
| TB-AGE-yr | | | | • | |
| F-AGE-yr | | | | ice poin | |
| M | | | Parameter | Value | Units |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | | | |
|-------------------------------|-----|---|---|----|-------|--|--|
| | SSB | R | F | TB | Catch | | |
| Minimum year | | | | | 1987 | | |
| Maximum year | | | | | 2006 | | |
| Time series minimum | | | | | 388 | | |
| Time series maximum | | | | | 12358 | | |
| Units | | | | | MT | | |

No biomass data available

No recruitment data available



Assessment of Labrador Shelf - Grand Banks greenland halibut (*Reinhardtius hippoglossoides*) Assessment ID:NAFO-SC-GHAL23KLMNO-1960-2006-PREFONTAINE

Area ID: multinational-NAFO-23KLMNO

General assessment details.

| Detail | Value |
|--------------------|---|
| Management body | NAFO |
| Assessment group | NAFO Scientific Council |
| Assessment authors | Healey, B.P. |
| Assessment method | Extended Survivor Analysis |
| Publication year | 2007 |
| Timeseries span | 1960-2006 |
| Document | NAFO-GHAL23KLMNO-2007.pdf (pdf not in database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

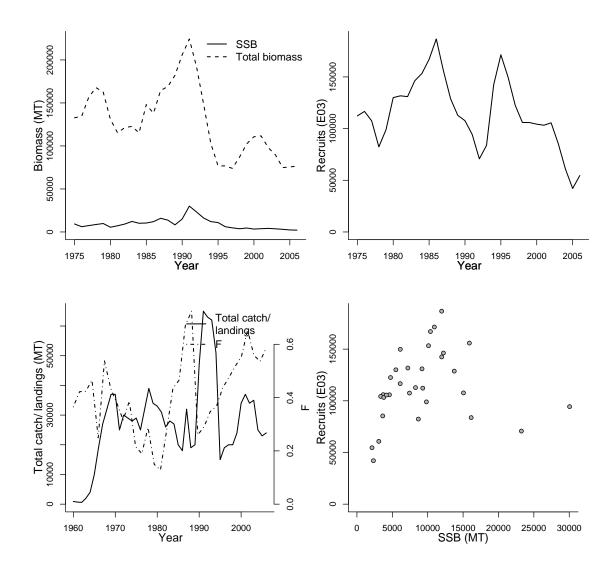
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Value Units

1/yr

| Parameter | Value | Units | | | |
|-------------------------------------|-------|-------|----------------------|-------------------|---------|
| REC-AGE-yr | 1 | yr | | | |
| M-1/T | 0.2 | 1/T | | | |
| SSB-AGE-yr TB-AGE-yr F-AGE-yr | | | Referen Parameter | ce point Value | ts T |
| M A50-yr | | | F0.1-1/yr (F) | 0.14 | 1 |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |
| | | | | | |

| Time series minima and maxima | | | | | | | | |
|-------------------------------|-------|--------|--------|--------|-------|--|--|--|
| SSB R F TB Catch | | | | | | | | |
| Minimum year | 1975 | 1975 | 1975 | 1975 | 1960 | | | |
| Maximum year | 2006 | 2006 | 2006 | 2006 | 2006 | | | |
| Time series minimum | 2129 | 42064 | 0.1285 | 73913 | 600 | | | |
| Time series maximum | 30050 | 186714 | 0.7243 | 224362 | 65000 | | | |
| Units | MT | E03 | 1/T | MT | MT | | | |



Assessment of West Greenland redfish species (Redfish species) Assessment ID:NAFO-SC-REDFISHSPP1-1965-2004-PREFONTAINE

Area ID: multinational-NAFO-1

General assessment details.

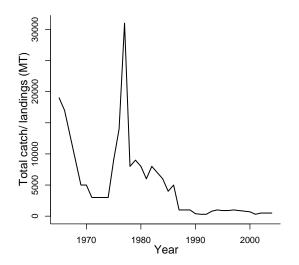
| Detail | Value |
|--------------------|--|
| Management body | NAFO |
| Assessment group | NAFO Scientific Council |
| Assessment authors | Siegstad, Helle |
| Assessment method | Unknown |
| Publication year | 2005 |
| Timeseries span | 1965-2004 |
| Document | NAFO-RED1-2005.pdf (pdf not in database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|---------------|-------|-------|-----------|----------|-------|
| REC-AGE | | | | | |
| SSB-AGE-yr | | | | | |
| TB-AGE-yr | | | | • | |
| F-AGE-yr | | | Referen | nce poin | its |
| M | | | Parameter | Value | Units |
| A50-yr | | | | | |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

| Time series minima and maxima | | | | | | | |
|-------------------------------|-----|---|---|----|-------|--|--|
| | SSB | R | F | TB | Catch | | |
| Minimum year | | | | | 1965 | | |
| Maximum year | | | | | 2004 | | |
| Time series minimum | | | | | 300 | | |
| Time series maximum | | | | | 31000 | | |
| Units | | | | | MT | | |

No biomass data available

No recruitment data available



Assessment of N and SW Grand Banks redfish species (*Redfish species*) Assessment ID:NAFO-SC-REDFISHSPP3LN-1959-2007-PREFONTAINE

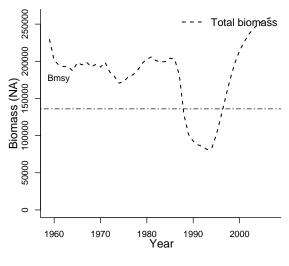
Area ID: multinational-NAFO-3LN

General assessment details.

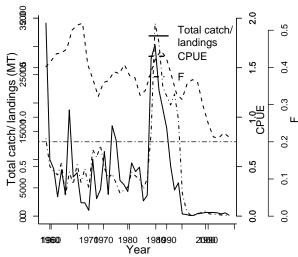
| Detail | Value |
|--------------------|--|
| Management body | NAFO |
| Assessment group | NAFO Scientific Council |
| Assessment authors | vila de Melo, A. M. |
| Assessment method | Surplus production model |
| Publication year | 2007 |
| Timeseries span | 1959-2007 |
| Document | NAFO-RED3LN-2007.pdf (pdf not in database) |
| Recorder | PREFONTAINE |
| Date entered | 2009-03-10 |

| Parameter | Value | Units | | | |
|------------------------------------|---------------|----------|-------------------------------|--------------------|------------|
| REC-AGE-yr L50-cm SSB-AGE-yr | NULL 30-34 | yr cm | Referen Parameter | ce points Value | Units |
| TB-AGE-yr F-AGE-yr | | | Bmsy-MT (TB) Fmsy-1/yr (F) | 136000 0.2 | MT 1/yr |
| M | | | TB_{2007}/B_{msy} | 1.909 | 1/y1 |
| A50-yr MORATOR-yr-yr LME | | | F_{2006}/F_{msy} | 0.005 | |

| Time series minima and maxima | | | | | | | | |
|-------------------------------|--|--|-------|--------|-------|--|--|--|
| SSB R F TB Catch | | | | | | | | |
| Minimum year | | | 1959 | 1959 | 1959 | | | |
| Maximum year | | | 2006 | 2007 | 2006 | | | |
| Time series minimum | | | 0.001 | 81260 | 112 | | | |
| Time series maximum | | | 0.519 | 259600 | 34107 | | | |
| Units | | | 1/T | MT | MT | | | |



No recruitment data available



No SSB-recruit data available

Assessment of Flemish Cap redfish species (Redfish species) Assessment ID:NAFO-SC-REDFISHSPP3M-1989-2006-PREFONTAINE

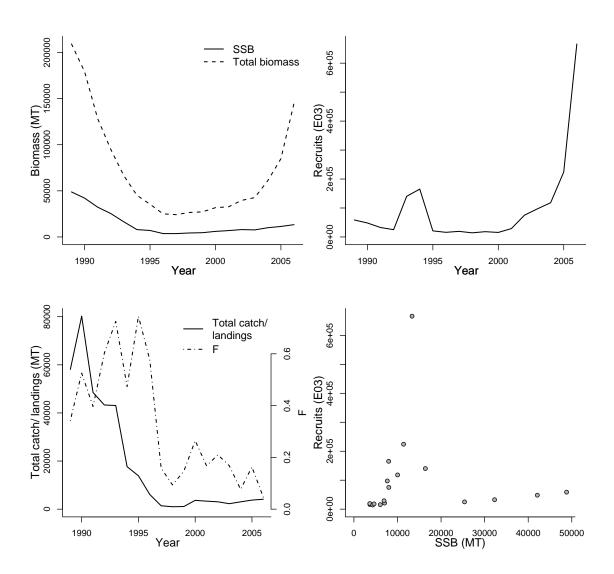
Area ID: multinational-NAFO-3M

General assessment details.

| Detail | Value | | |
|--------------------|---|--|--|
| Management body | NAFO | | |
| Assessment group | NAFO Scientific Council | | |
| Assessment authors | vila de Melo, A. M. | | |
| Assessment method | Extended Survivor Analysis | | |
| Publication year | 2007 | | |
| Timeseries span | 1989-2006 | | |
| Document | NAFO-RED3M-2007.pdf (pdf not in database) | | |
| Recorder | PREFONTAINE | | |
| Date entered | 2009-03-10 | | |

| Parameter | Value | Units | | | | |
|-------------------------|---------|----------|-----------|------------------|-------|--|
| REC-AGE-yr TB-AGE-yr | 4 4+ | yr yr | | | | |
| A50-yr SSB-AGE-yr | 15 | yr | Refere | Reference points | | |
| F-AGE-yr | | | Parameter | - | Units | |
| M L50-cm | | | | | | |
| MORATOR-yr-yr LME | | | | | | |

| Time series minima and maxima | | | | | |
|-------------------------------|-------|--------|--------|--------|-------|
| | SSB | R | F | TB | Catch |
| Minimum year | 1989 | 1989 | 1989 | 1989 | 1989 |
| Maximum year | 2006 | 2006 | 2006 | 2006 | 2006 |
| Time series minimum | 3640 | 14280 | 0.0463 | 24168 | 1011 |
| Time series maximum | 48810 | 666290 | 0.7453 | 209223 | 80223 |
| Units | MT | E03 | 1/T | MT | MT |



Assessment of Grand Banks yellowtail flounder (Limanda ferruginea) Assessment ID:NAFO-SC-YELL3LNO-1960-2006-PREFONTAINE

Area ID: multinational-NAFO-3LNO

General assessment details.

| Detail | Value | | |
|--------------------|----------------------------|--|--|
| Management body | NAFO | | |
| Assessment group | NAFO Scientific Council | | |
| Assessment authors | Walsh, Stephen J. | | |
| Assessment method | Surplus production model | | |
| Publication year | 2006 | | |
| Timeseries span | 1960-2006 | | |
| Document | NULL (pdf not in database) | | |
| Recorder | PREFONTAINE | | |
| Date entered | 2009-03-11 | | |

| Parameter | Value | Units | | | |
|-----------------------|-------|-------|------------------|-------|-------|
| REC-AGE | | | | | |
| SSB-AGE-yr | | | Reference points | | |
| TB-AGE-yr F-AGE-yr | | | Parameter | Value | Units |
| M | | | Bmsy-MT (TB) | 78930 | MT |
| A50-yr | | | Fmsy-1/T (F) | 0.22 | 1/T |
| L50-cm | | | | | |
| MORATOR-yr-yr | | | | | |
| LME | | | | | |

No biomass data available

No recruitment data available

No exploitation data available

