Dear Julia,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 13 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.

Contents

Assessment of Grand Banks american plaice (*Hippoglossoides platessoides*)

Assessment ID:NAFO-SC-AMPL3LNO-1955-2007-BAUM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/7

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	Virtual Population Analysis
Publication year	2007
Timeseries span	1955-2007
Document	NAFO-GrandBanks-AmPlaice-2007.pdf (pdf in database)
Recorder	BAUM
Date entered	2008-04-07
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.

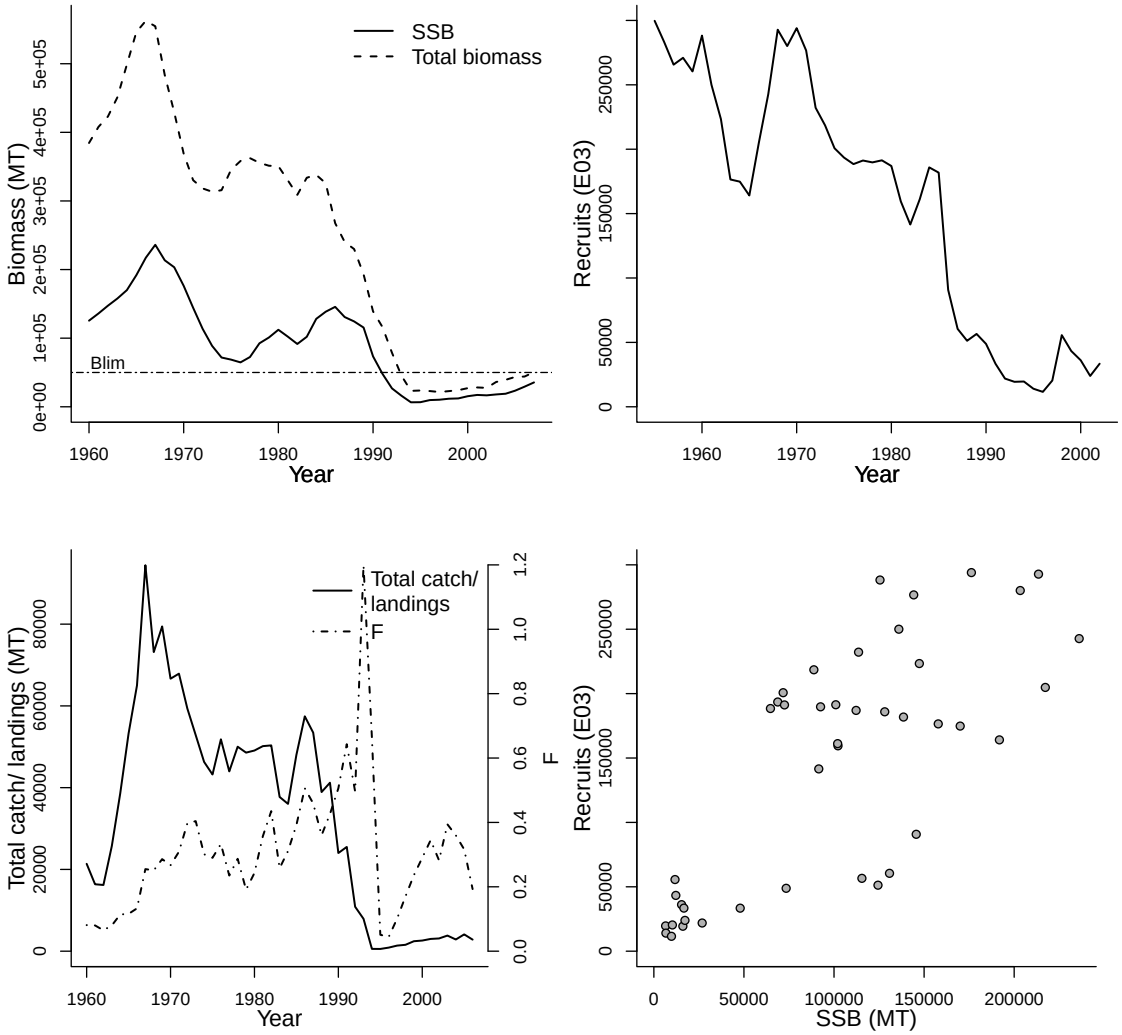
primary LME	secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf	na	na

Parameter	Value	Units
SSB-AGE-yr		yr
SSB-SEX-sex	0	sex
REC-AGE-yr	5	yr
F-AGE-yr-yr	9-14	yr-yr
TB-AGE-yr	5+	yr
M-1/T	0.2	1/T
M-1/T	0.53	1/T
M-1/T	0.2	1/T
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
MORATOR-yr-yr	1995-2007	yr-yr
Blim-MT (TB)	50000	MT
F0.1-1/yr (F)	0.19	1/yr

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1960	1955	1960	1960	1960
Maximum year	2007	2002	2006	2007	2006
Time series minimum	6526	11570	0.044	21499.54	548
Time series maximum	236083	299711	1.199	562561.92	94413
Units	MT	E03	1/T	MT	MT



Assessment of Flemish Cap american plaice (*Hippoglossoides platessoides*)

Assessment ID:NAFO-SC-AMPL3M-1960-2007-BAUM

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/352

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	2008
Timeseries span	1960-2007
Document	NAFO-AMPL3M-2008.pdf (pdf not in database)
Recorder	BAUM
Date entered	2009-05-28
Date last loaded	2010-01-07
QA/QC complete	NO
Date approved	

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

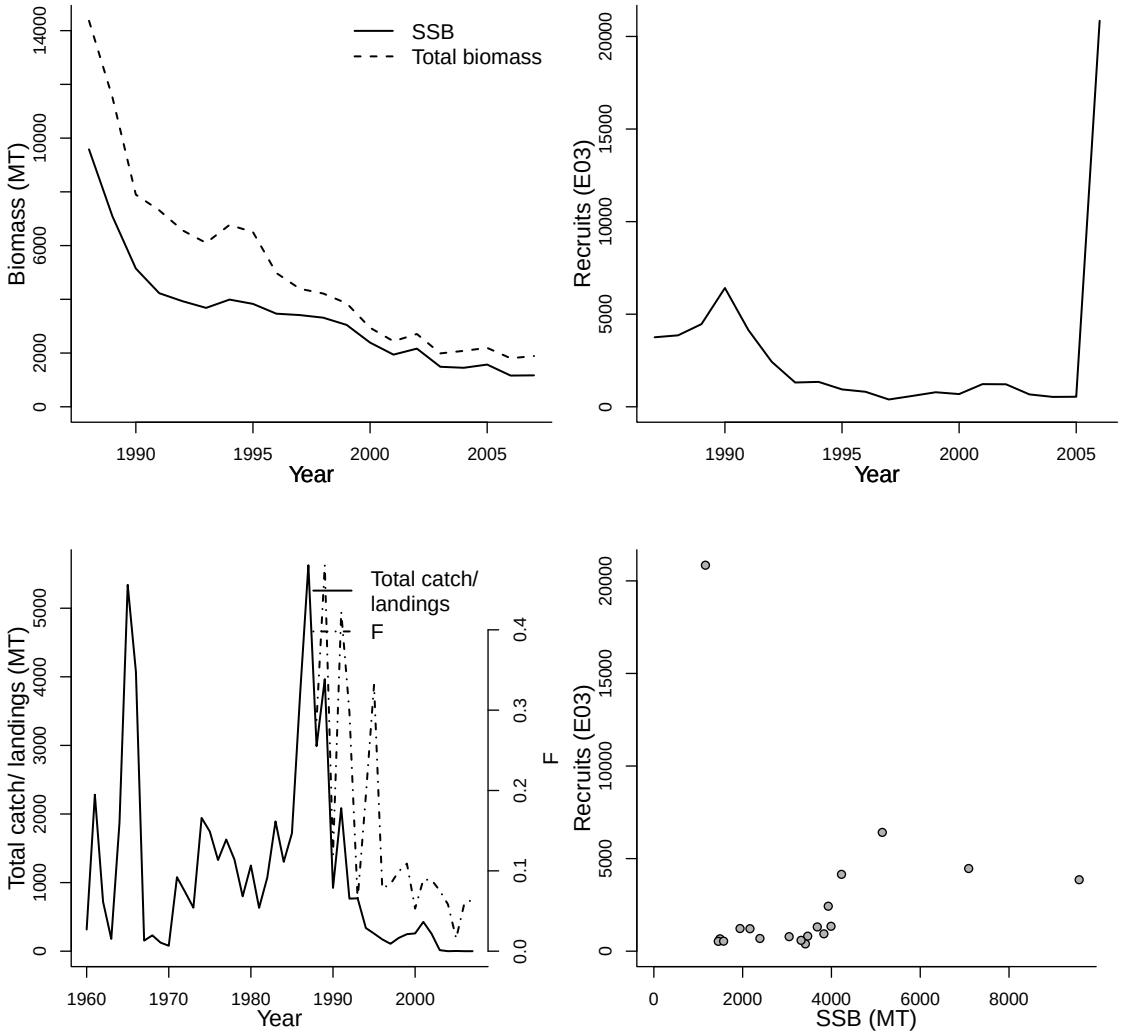
primary LME	secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf	na	na

Parameter	Value	Units
SSB-AGE-yr	5+	yr
SSB-SEX-sex	NA	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	3-13	yr-yr
TB-AGE-yr	NA	yr
M-1/T	0.2	1/T
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
Fmax-1/yr (F)	0.346	1/yr
MORATOR-yr-yr	1996-2008	yr-yr
F0.1-1/yr (F)	0.162	1/yr

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1988	1987	1988	1988	1960
Maximum year	2007	2006	2007	2007	2007
Time series minimum	1162	394	0.0159	1807	0
Time series maximum	9580	20846	0.4804	14366	5627
Units	MT	E03	1/T	MT	MT



Assessment of Flemish Cap atlantic cod (*Gadus morhua*)

Assessment ID:NAFO-SC-COD3M-1959-2008-BAUM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/350

Area ID: multinational-NAFO-3M

General assessment details.

Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Fernandez, C.
Assessment method	Bayesian VPA hybrid
Publication year	2008
Timeseries span	1959-2008
Document	NAFO-3M-COD-2008.pdf (pdf in database)
Recorder	BAUM
Date entered	2009-05-28
Date last loaded	2009-11-13
QA/QC complete	NO
Date approved	

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

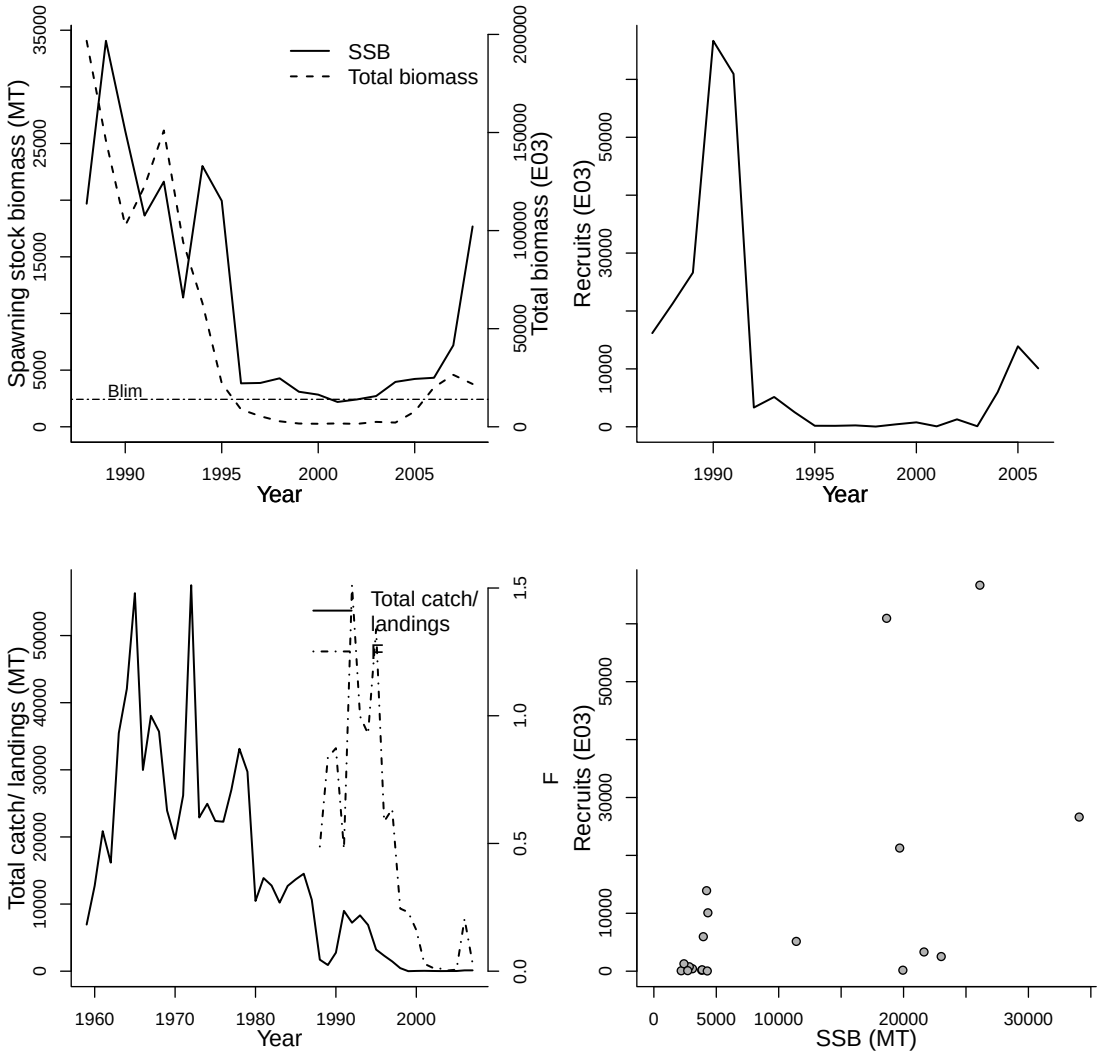
primary LME	secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf	na	na

Parameter	Value	Units
SSB-AGE-yr	3.5	yr
SSB-SEX-sex	NA	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	3-5	yr-yr
TB-AGE-yr	2+	yr
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
MORATOR-yr-yr	1999-2008	yr-yr
Blim-MT (TB)	14000	MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1988	1987	1988	1988	1959
Maximum year	2008	2006	2007	2008	2007
Time series minimum	2191	39	0.003	1472	2
Time series maximum	34066	66664	1.511	196748	57503
Units	MT	E03	1/T	E03	MT



Assessment of Southern Grand Banks atlantic cod (*Gadus morhua*)

Assessment ID:NAFO-SC-COD3NO-1953-2007-BAUM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/153

Area ID: multinational-NAFO-3NO

General assessment details.

Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Morgan, M.J.
Assessment method	Sequential Population Analysis
Publication year	2007
Timeseries span	1953-2007
Document	NAFO-3NO-COD-2007.pdf (pdf in database)
Recorder	BAUM
Date entered	2008-04-07
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

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

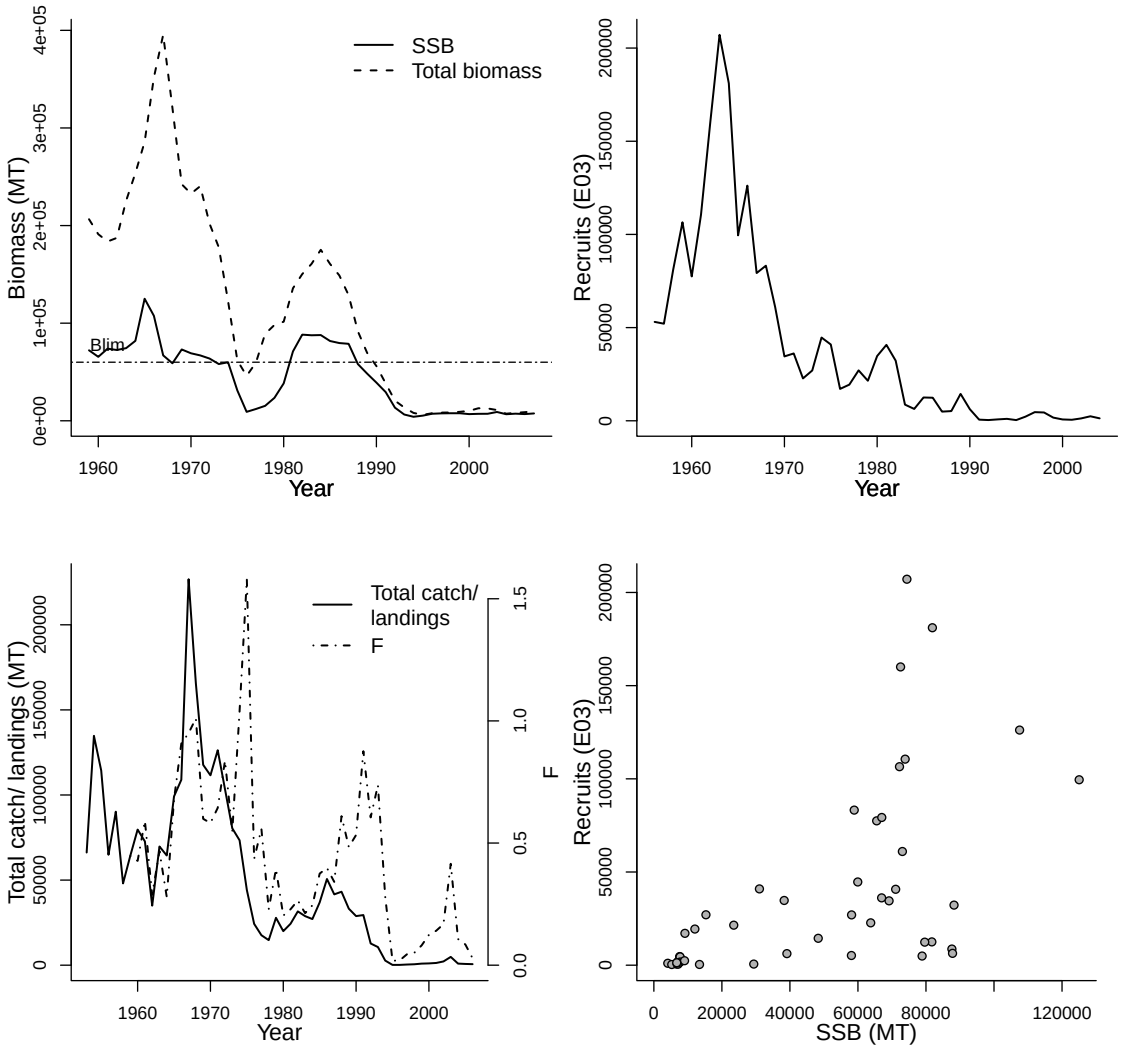
primary LME	secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf	na	na

Parameter	Value	Units
M-1/T	0.2	1/T
SSB-AGE-yr	3-12	yr
SSB-SEX-sex	0	sex
REC-AGE-yr	3	yr
F-AGE-yr-yr	6-9	yr-yr
TB-AGE-yr	3+	yr
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
MORATOR-yr-yr	1994-2007	yr-yr
Blim-MT (TB)	60000	MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1959	1956	1959	1959	1953
Maximum year	2007	2004	2006	2007	2006
Time series minimum	4097	369	0.018	6066	172
Time series maximum	125043	207114	1.58	395437	226784
Units	MT	E03	1/T	MT	MT



Assessment of N and SW Grand Banks redfish species (*Redfish species*)

Assessment ID:NAFO-SC-REDFISHSPP3LN-1959-2008-BAUM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/351

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	2008
Timeseries span	1959-2008
Document	NAFO-3LN-Redfishspp-2008.pdf (pdf in database)
Recorder	BAUM
Date entered	2009-05-28
Date last loaded	2010-05-05
QA/QC complete	NO
Date approved	

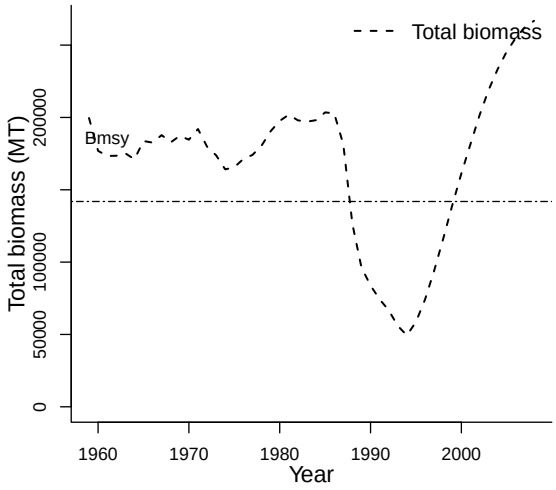
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf	na	na

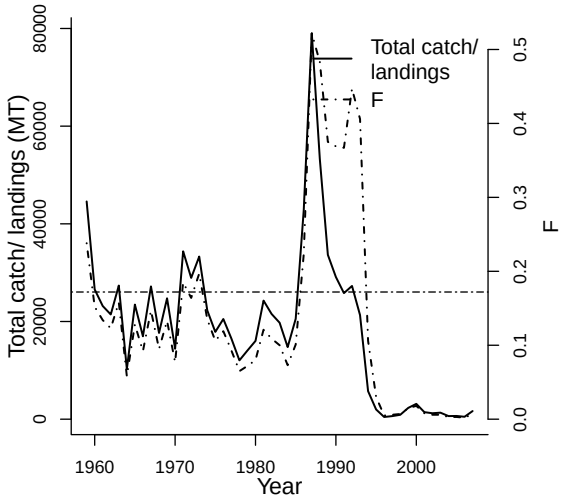
Parameter	Value	Units
TB-AGE-yr	ALL AGES	yr
L50-cm	30-34	cm
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
A50-yr		

Reference points		
Parameter	Value	Units
Fmsy-1/T (F)	0.172	1/T
MORATOR-yr-yr	1998-2008	yr-yr
MSY-MT (TB)	24440	MT
Bmsy-MT (TB)	141900	MT
TB_{2008}/B_{msy}	1.880	
F_{2007}/F_{msy}	0.041	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1959	1959	1959
Maximum year			2007	2008	2007
Time series minimum			0.002	49370	451
Time series maximum			0.522	266800	79031
Units			1/T	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Grand Banks yellowtail flounder (*Limanda ferruginea*)

Assessment ID:NAFO-SC-YELL3LNO-1960-2009-BAUM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/353

Area ID: multinational-NAFO-3LNO

General assessment details.

Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Parsons, D.M.
Assessment method	Surplus production model
Publication year	2008
Timeseries span	1960-2009
Document	NAFO-YELL3LNO-2008.pdf (pdf not in database)
Recorder	BAUM
Date entered	2009-05-28
Date last loaded	2010-01-07
QA/QC complete	NO
Date approved	

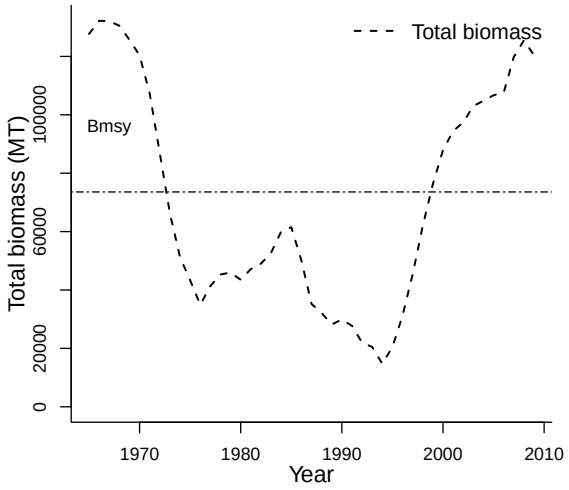
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	8 - Scotian Shelf	na

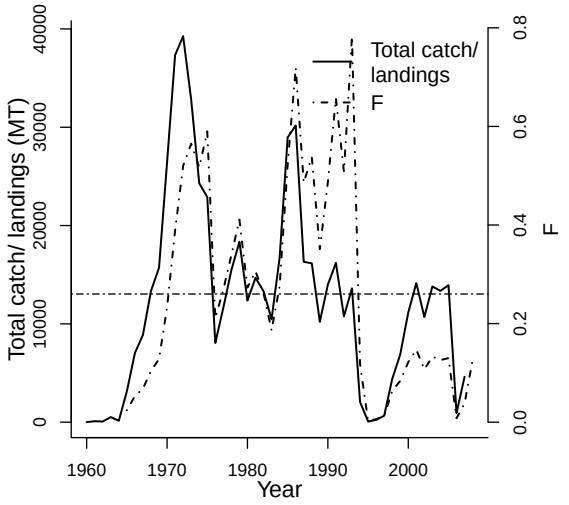
Parameter	Value	Units
A50-yr	AVAILABLE	yr
L50-cm	AVAILABLE	cm
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.26	1/yr
MORATOR-yr-yr	1994-1997	yr-yr
MSY-MT (TB)	18820	MT
Bmsy-MT (TB)	73580	MT
TB_{2009}/B_{msy}	1.636	
F_{2008}/F_{msy}	0.485	

Time series minima and maxima				
	SSB R	F	TB	Catch
Minimum year		1965	1965	1960
Maximum year		2008	2009	2007
Time series minimum		0.003	14700	7
Time series maximum		0.783	132200	39259
Units		ratio	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Georges Bank atlantic cod (*Gadus morhua*)

Assessment ID:NEFSC-CODGB-1960-2008-BAUM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/109

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	1960-2008
Document	NMFS-GB-Gadusmorhua-2008.pdf (pdf not in database)
Recorder	BAUM
Date entered	2008-10-24
Date last loaded	2009-03-24
QA/QC complete	NO
Date approved	

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

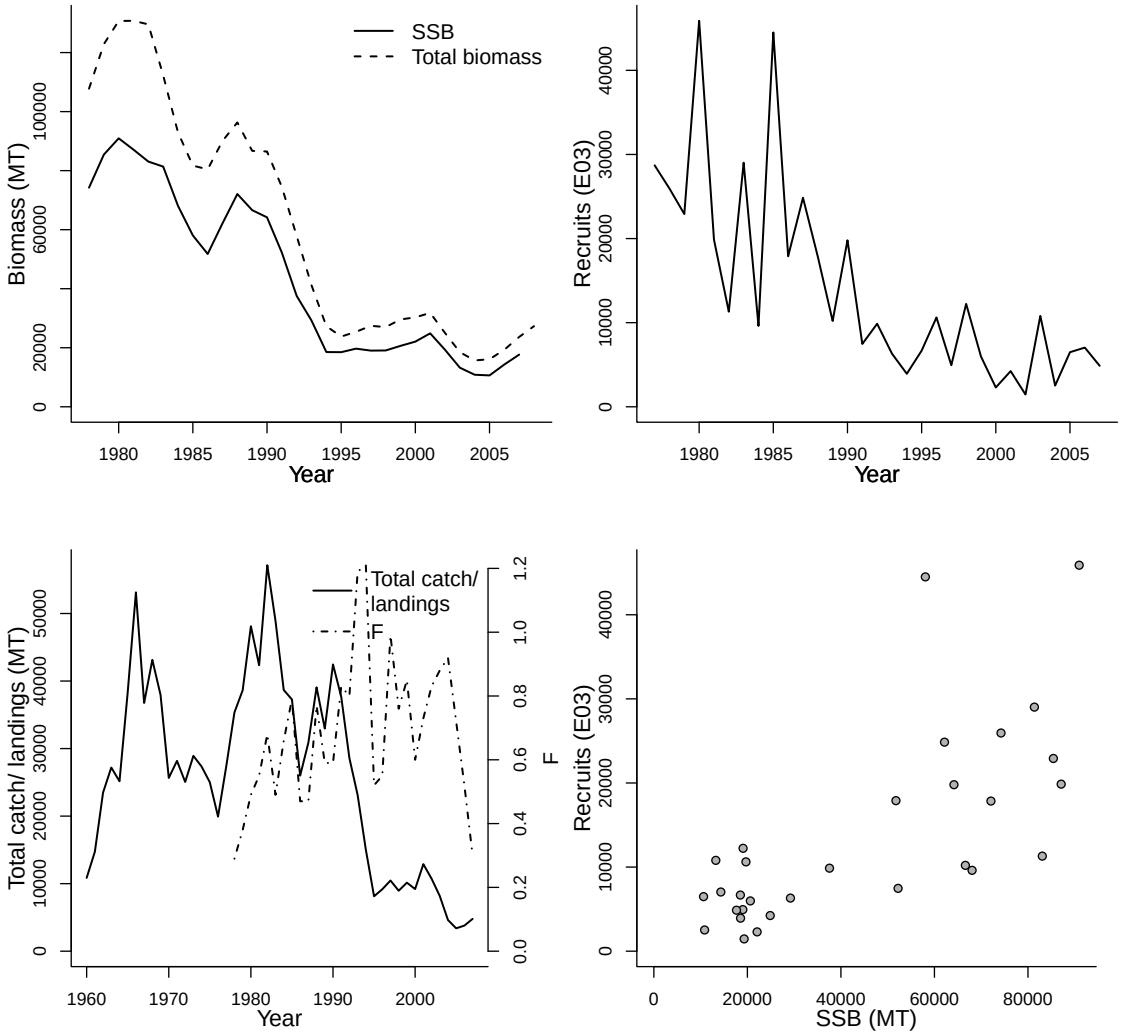
primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na

Parameter	Value	Units
SSB-AGE-yr	1+	yr
SSB-SEX-sex	NA	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	5-8	yr-yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.2	1/T
M		
L50-cm		

Reference points

Parameter	Value	Units
F40%-1/T	0.25	1/T
SSBmsy-MT (SSB)	148084	MT
MSY-MT (TB)	31159	MT
SSB_{2007}/SSB_{msy}	0.119	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1977	1978	1978	1960
Maximum year	2007	2007	2007	2008	2007
Time series minimum	10627	1461	0.29	15703.8	3384
Time series maximum	90951	45891	1.21	130763.18	57149
Units	MT	E03	1/T	MT	MT



Assessment of Gulf of Maine atlantic cod (*Gadus morhua*)

Assessment ID:NEFSC-CODGOM-1893-2008-BAUM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/110

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	2008-11-04
Date last loaded	2009-03-23
QA/QC complete	NO
Date approved	

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

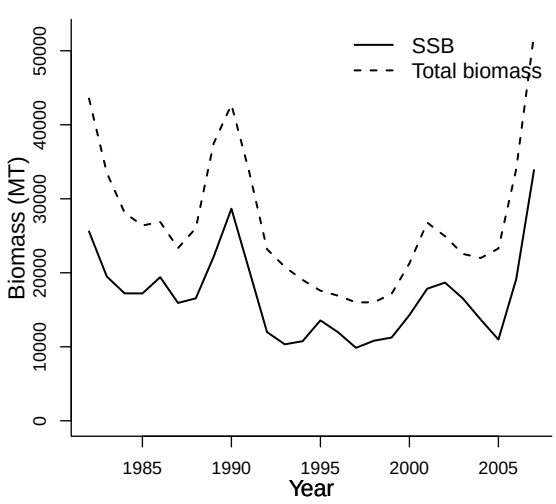
primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na

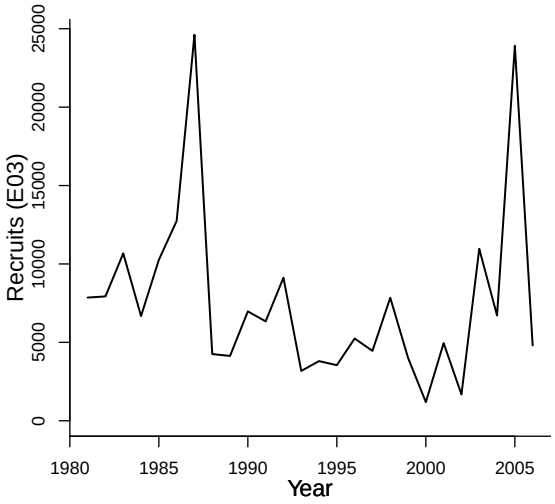
Parameter	Value	Units
SSB-SEX-sex	NA	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	5-7	yr-yr
A50-yr	AVAILABLE	yr
M-1/T	0.2	1/T
SSB-AGE-yr		
TB-AGE-yr		
M		
L50-cm		

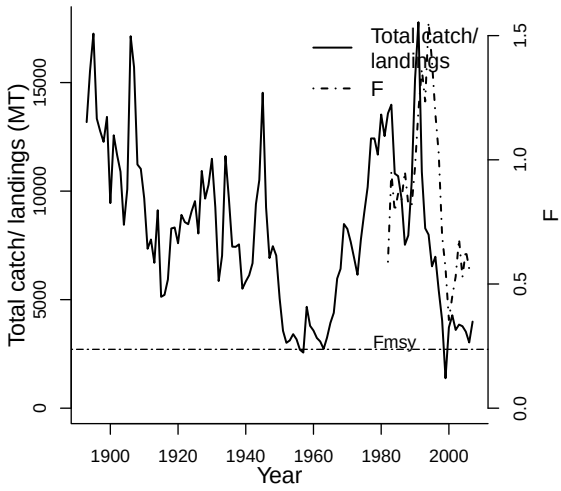
Reference points

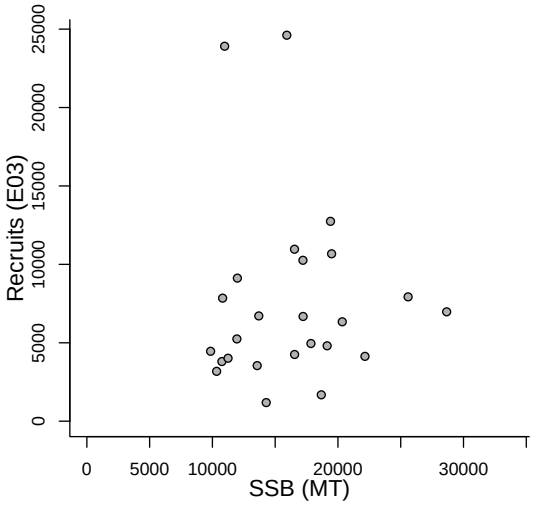
Parameter	Value	Units
Bmsy-MT (TB)	82830	MT
Fmsy-1/T (F)	0.237	1/T
MSY-MT (TB)	16600	MT
Frebuild-1/T (F)	0.281	1/T
TB_{2007}/B_{msy}	0.630	
F_{2007}/F_{msy}	2.399	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1982	1981	1982	1982	1893
Maximum year	2007	2006	2007	2007	2007
Time series minimum	9856	1187	0.355	15998	1380
Time series maximum	33877	24612	1.554	52160	17781
Units	MT	E03	1/T	MT	MT









Assessment of Gulf of Maine haddock (*Melanogrammus aeglefinus*)

Assessment ID:NEFSC-HAD5Y-1956-2008-BAUM

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/116

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	VPA/ADPAT version 2.3.2 NOAA Fisheries
Publication year	2008
Timeseries span	1956-2008
Document	NMFS-GOM-Melanogrammusaeglefinus-2008.pdf (pdf in database)
Recorder	BAUM
Date entered	2008-11-24
Date last loaded	2009-03-23
QA/QC complete	NO
Date approved	

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

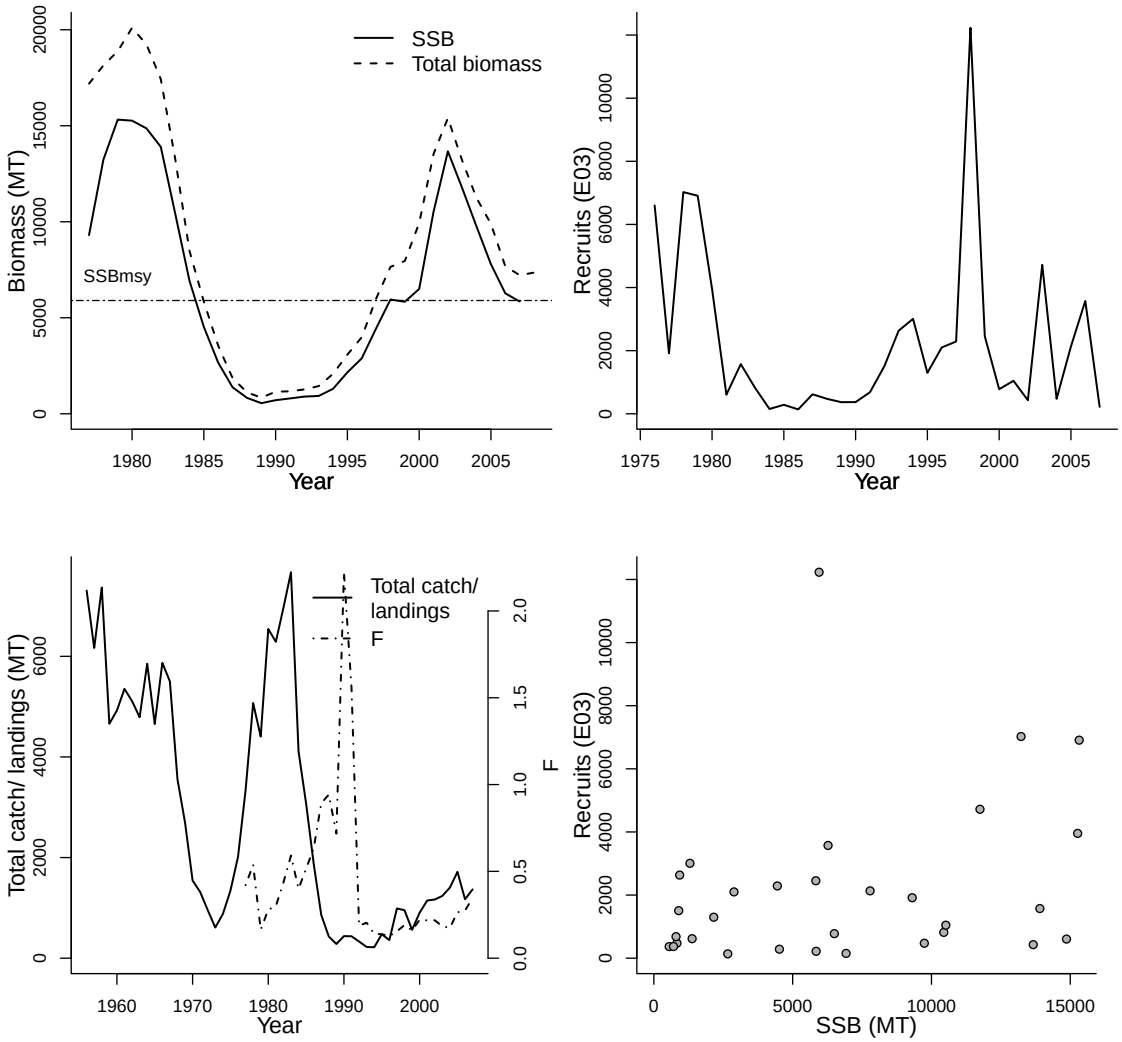
primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na

Parameter	Value	Units
SSB-SEX-sex	NA	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	6-8	yr-yr
A50-yr	AVAILABLE	yr
L50-cm	AVAILABLE	cm
M-1/T	0.2	1/T
SSB-AGE-yr		
TB-AGE-yr		
M		

Reference points

Parameter	Value	Units
F40%-1/T	0.43	1/T
SSBmsy-MT (SSB)	5900	MT
MSY-MT (TB)	1360	MT
SSB_{2007}/SSB_{msy}	0.991	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1976	1977	1977	1956
Maximum year	2007	2007	2007	2008	2007
Time series minimum	553	138	0.1267	839	217.4
Time series maximum	15321	12230	2.2231	20102	7671.9
Units	MT	E03	1/T	MT	MT



Assessment of Georges Bank haddock (*Melanogrammus aeglefinus*)

Assessment ID:NEFSC-HADGB-1930-2008-BAUM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/82

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 Fisheries
Publication year	2008
Timeseries span	1930-2008
Document	NMFS-5Z-Melanogrammusaeglefinus-2008.pdf (pdf not in database)
Recorder	BAUM
Date entered	2008-10-30
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

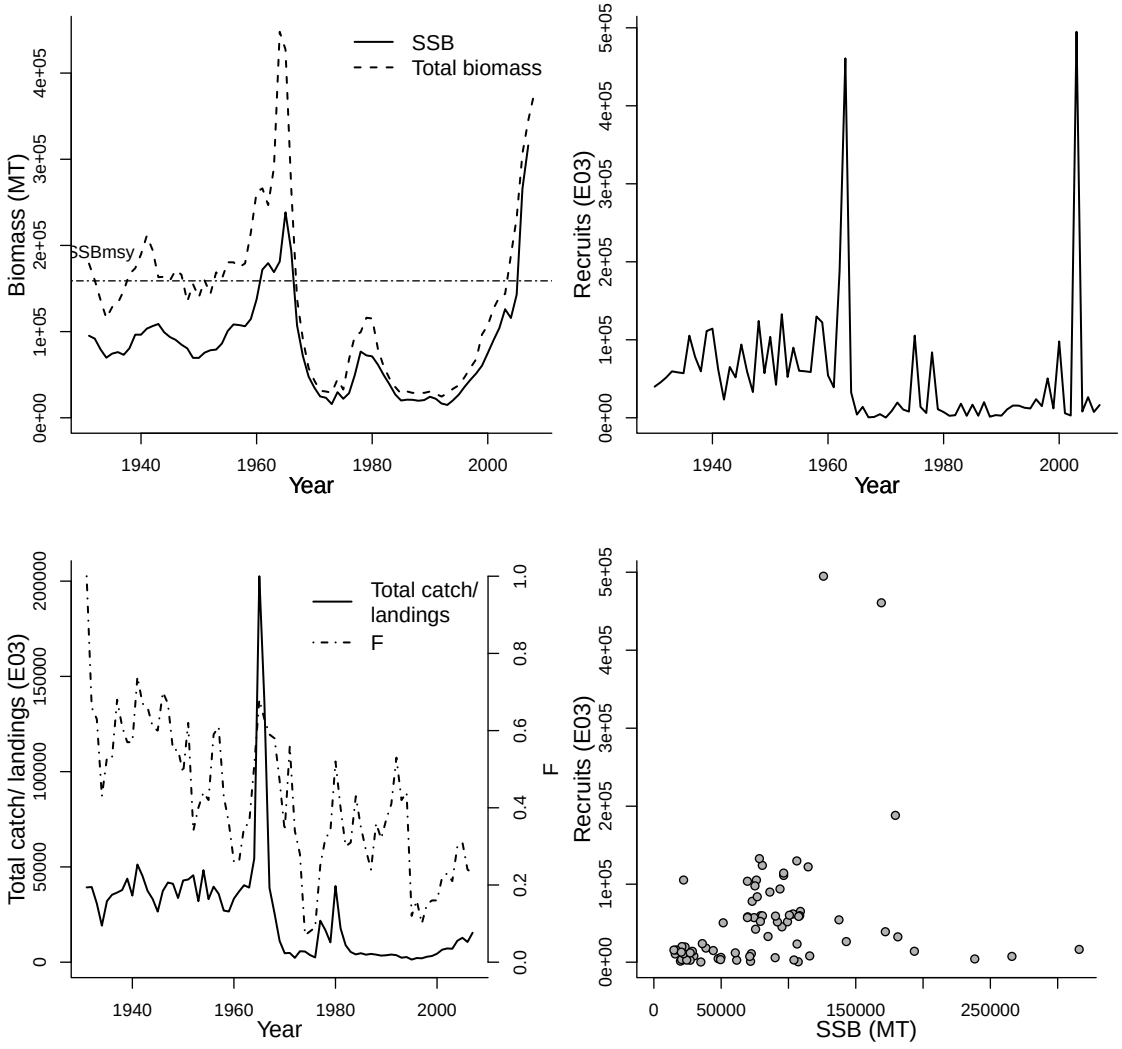
primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na

Parameter	Value	Units
SSB-SEX-sex	NA	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	5-7	yr-yr
A50-yr	AVAILABLE	yr
L50-cm	AVAILABLE	cm
M-1/T	0.2	1/T
SSB-AGE-yr		
TB-AGE-yr		
M		

Reference points

Parameter	Value	Units
F40%-1/T	0.35	1/T
SSBmsy-MT (SSB)	158873	MT
MSY-MT (TB)	32746	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
Issue URL: no issueID

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 in database)
Recorder	BAUM
Date entered	2008-11-03
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

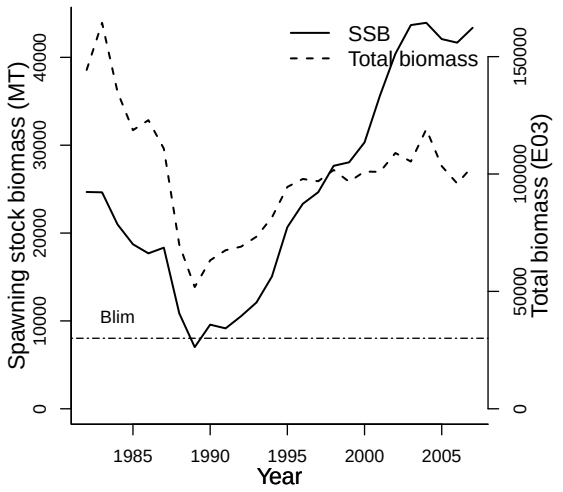
primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	6 - Southeast U.S. Continental Shelf	na

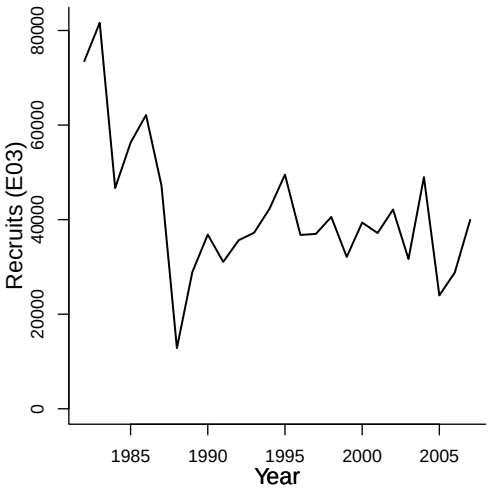
Parameter	Value	Units
SSB-SEX-sex	NA	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	3-7+	yr-yr
A50-yr	AVAILABLE	yr
L50-cm	AVAILABLE	cm
M-1/T	0.25	1/T
SSB-AGE-yr		
TB-AGE-yr		
M		

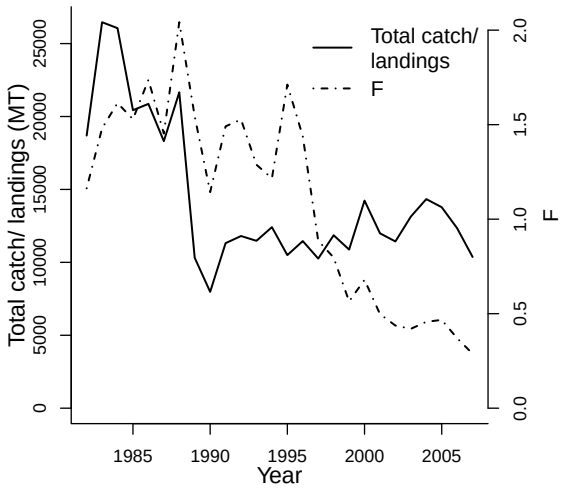
Reference points

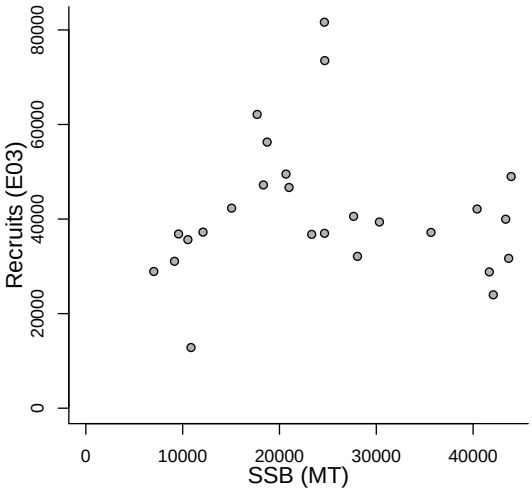
Parameter	Value	Units
F40%-1/T	0.255	1/T
SSBmsy-MT (SSB)	60074	MT
F35%-1/T	0.31	1/T
Frebuild-1/T (F)	0.274	1/T
Blim-MT (TB)	30037	MT
SSB_{2007}/SSB_{msy}	0.722	

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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/12

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 in database)
Recorder	BAUM
Date entered	2008-11-04
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

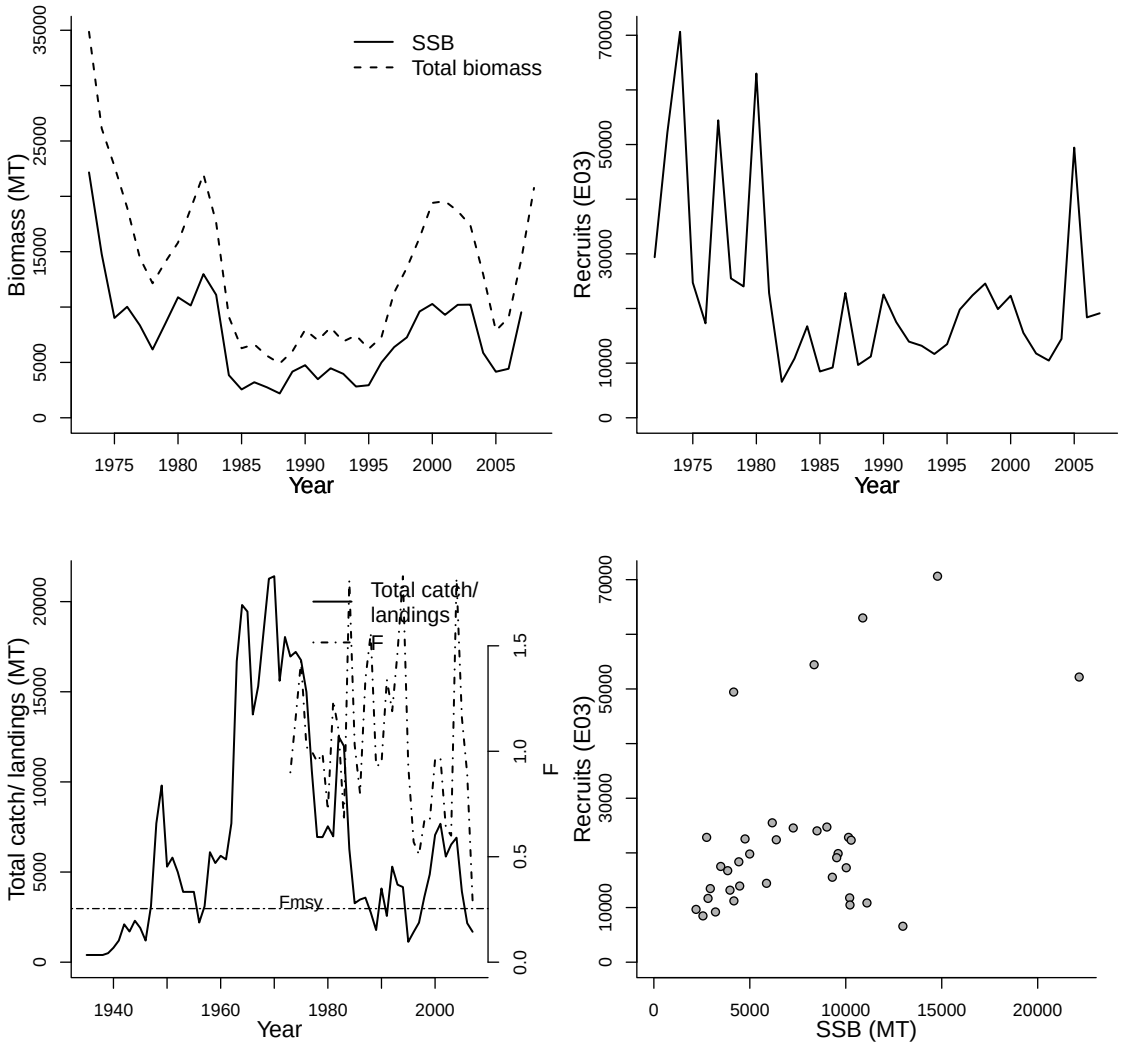
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na

Parameter	Value	Units
SSB-SEX-sex	NA	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	4+	yr-yr
A50-yr	2	yr
SSB-AGE-yr		
TB-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/T (F)	0.254	1/T
F40%-1/T	0.254	1/T
SSBmsy-MT (SSB)	43200	MT
MSY-MT (TB)	9400	MT
Frebuild-1/T (F)	0.202	1/T
F_{2007}/F_{msy}	1.142	
SSB_{2007}/SSB_{msy}	0.221	

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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/14

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	2008-11-04
Date last loaded	2009-03-24
QA/QC complete	NO
Date approved	

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

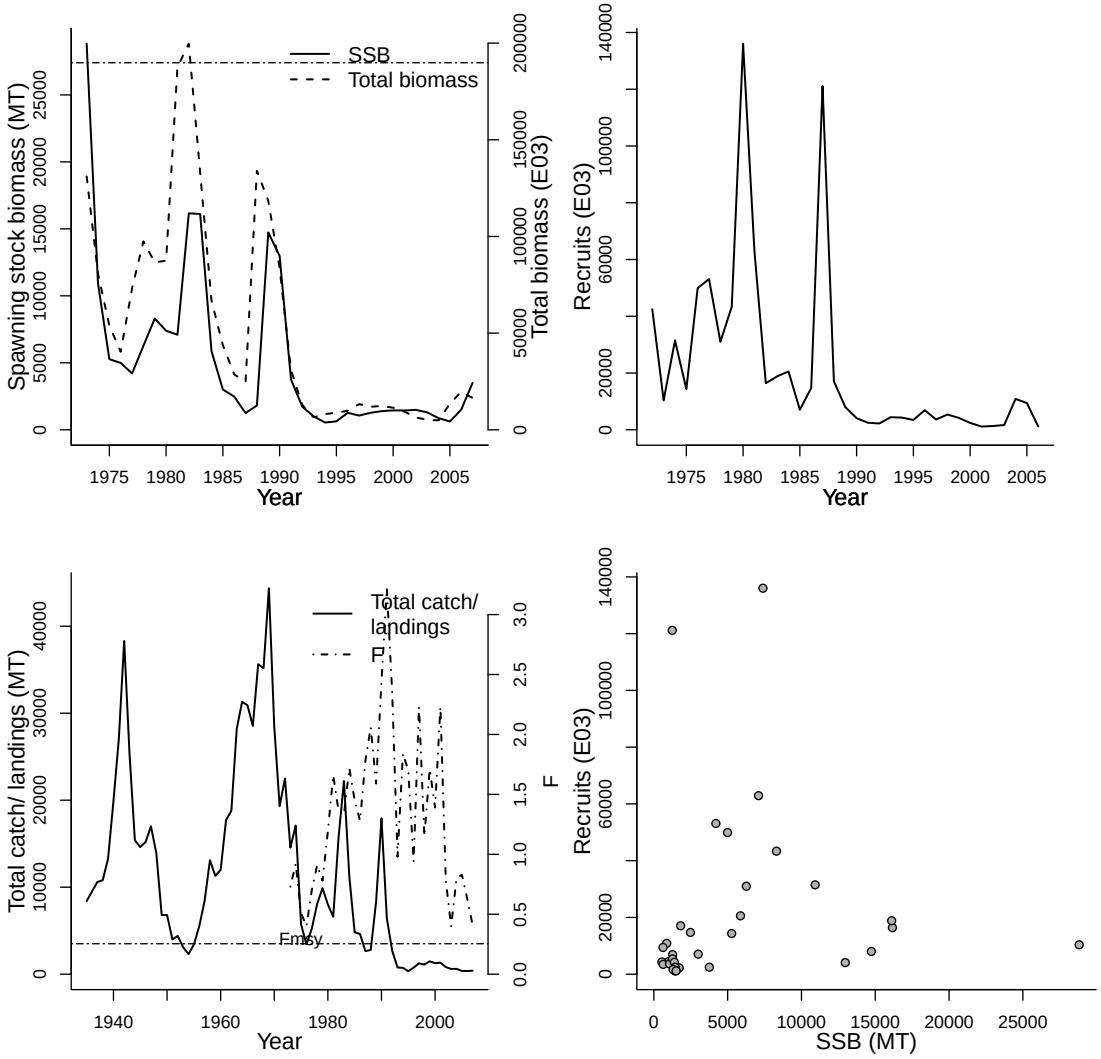
primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na

Parameter	Value	Units
SSB-SEX-sex	NA	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	4-6+	yr-yr
A50-yr	2	yr
SSB-AGE-yr		
TB-AGE-yr		
M		
L50-cm		

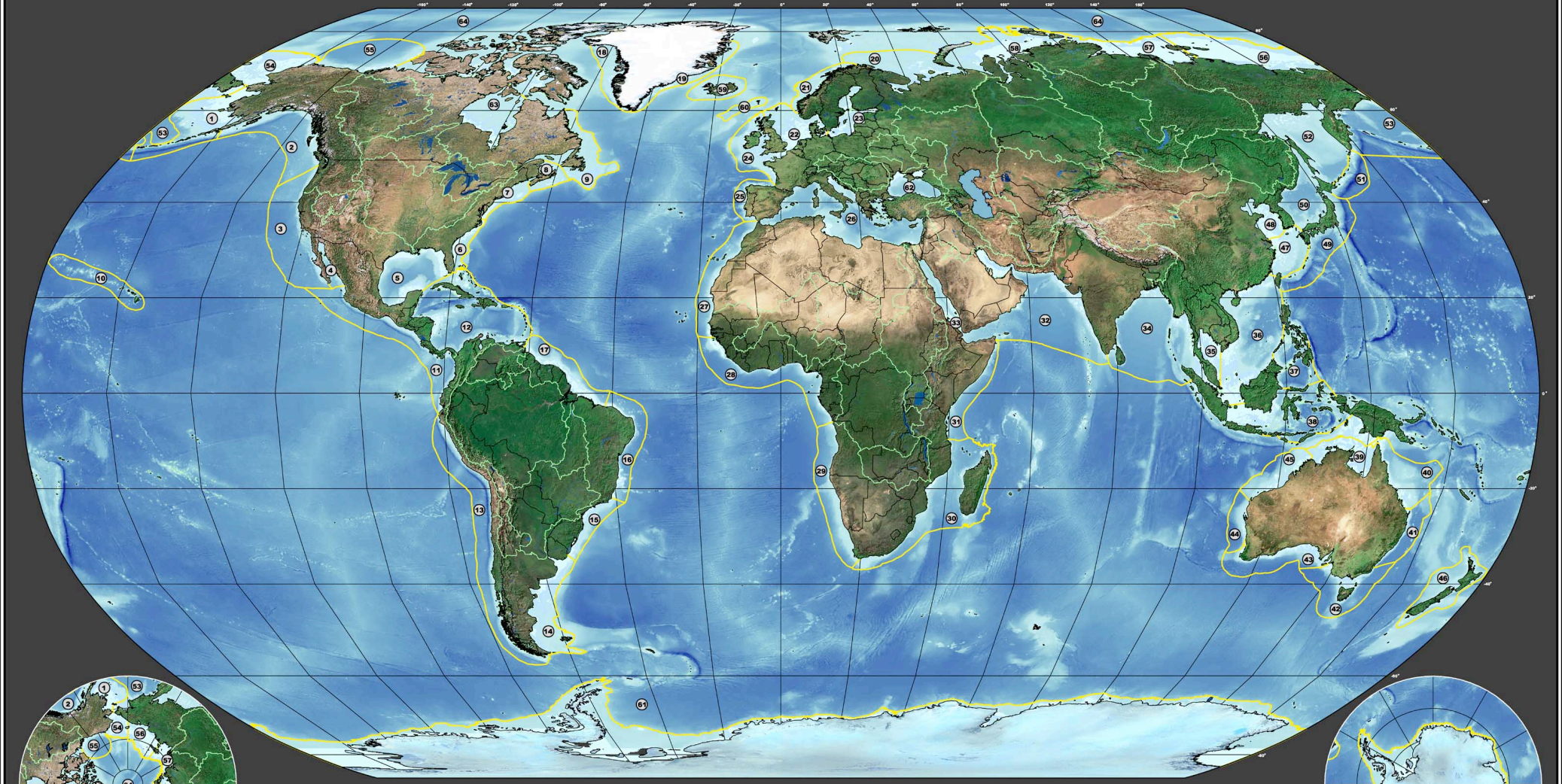
Reference points

Parameter	Value	Units
Fmsy-1/T (F)	0.254	1/T
F40%-1/T	0.254	1/T
SSBmsy-MT (SSB)	27400	MT
MSY-MT (TB)	6100	MT
Frebuild-1/T (F)	0.08	1/T
F_{2007}/F_{msy}	1.614	
SSB_{2007}/SSB_{msy}	0.128	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1972	1973	1973	1935
Maximum year	2007	2006	2007	2007	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



Large Marine Ecosystems of the World
and Linked Watersheds



MAP KEY:

LME Numbers:

1 East Bering Sea
2 Gulf of Alaska
3 California Current
4 Gulf of California
5 Gulf of Mexico
6 Southeast U.S. Continental Shelf
7 Northeast U.S. Continental Shelf
8 Scotian Shelf
9 Newfoundland-Labrador Shelf
10 Insular Pacific-Hawaiian
11 Pacific Central-American Coastal
12 Caribbean Sea
13 Humboldt Current
14 Patagonian Shelf
15 South Brazil Shelf
16 East Brazil Shelf
17 North Brazil Shelf
18 West Greenland Shelf
19 East Greenland Shelf
20 Barents Sea
21 Norwegian Shelf
22 North Sea
23 Baltic Sea
24 Celtic-Biscay Shelf
25 Iberian Coastal
26 Mediterranean Sea
27 Canary Current
28 Guinea Current
29 Benguela Current
30 Agulhas Current
31 Somali Coastal Current
32 Arabian Sea
33 Red Sea
34 Bay of Bengal
35 Gulf of Thailand
36 South China Sea
37 Sulu-Celebes Sea
38 Indonesian Sea
39 North Australian Shelf
40 Northeast Australian Shelf - Great Barrier Reef
41 East-Central Australian Shelf
42 Southeast Australian Shelf
43 Southwest Australian Shelf
44 West-Central Australian Shelf
45 Northwest Australian Shelf
46 New Zealand Shelf
47 East China Sea
48 Yellow Sea
49 Kuroshio Current
50 Sea of Japan
51 Oyashio Current
52 Sea of Okhotsk
53 West Bering Sea
54 Chukchi Sea
55 Beaufort Sea
56 East Siberian Sea
57 Laptev Sea
58 Kara Sea
59 Iceland Shelf
60 Faroe Plateau
61 Antarctic
62 Black Sea
63 Hudson Bay
64 Arctic Ocean

Large Marine Ecosystems
Watershed Bounds
Political Borders

DEPTH

Feet (ft)	Meters (m)
-36,080	-11,000
-32,800	-10,000
-29,520	-9,000
-26,240	-8,000
-22,960	-7,000
-19,680	-6,000
-16,400	-5,000
-13,120	-4,000
-9,840	-3,000
-6,560	-2,000
-3,280	-1,000
-1,640	-500
-246	-75
0	0

N W E S

SCALE = 1 : 31,700,000
Robinson Projection
Units Meters

Miles
0 300 600 900 1200

Kilometers
0 400 800 1200 1600 2000 2400

Data Sources:
Bathymetry (2-minute) : Smith and Sadnwell, 1997
Bathymetry (5-minute) : NAVOCEANO, DBDB5
Watersheds (HYDRO 1k) : USGS Eros Data Center
Terrestorial Image, Political Boundaries : ESRI

IUCN

***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

SOUTH POLAR REGION