

Dear ,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 359 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 Prince William Sound pacific herring (*Clupea pallasii*)

Assessment ID:ADFG-HERRPWS-1980-2006-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/294>

Area ID: USA-US State-PWS

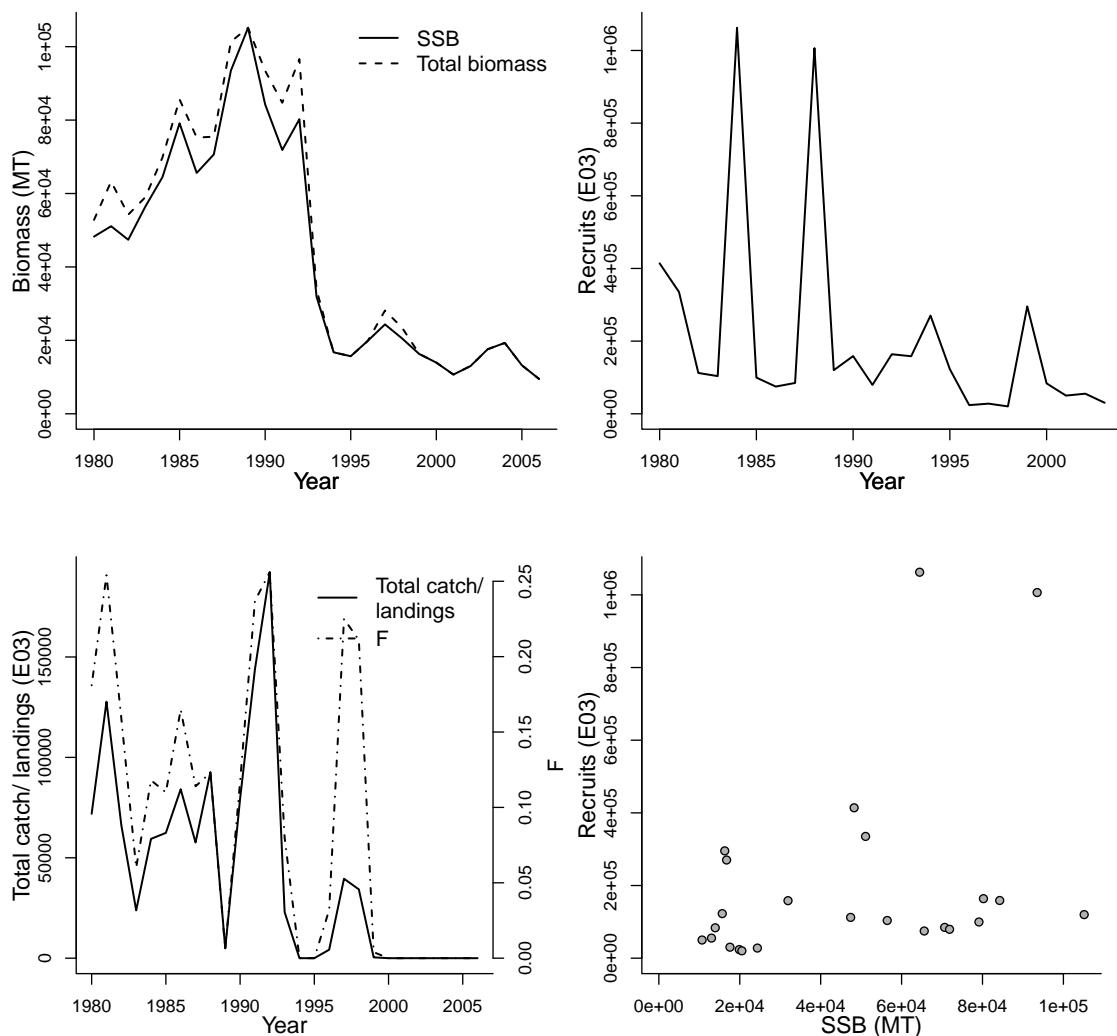
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Department of Fish and Game
Assessment authors	Hulson, Peter-John F.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1980-2006
Document	Hulson-et-al-2008-ICESJM.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-12-08
Date last loaded	2010-07-27
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
2 - Gulf of Alaska	na	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	3+	yr
SSB-SEX-sex	0	sex
REC-AGE-yr	3	yr
F-AGE-yr-yr	3+	yr-yr
TB-AGE-yr	3+	yr
M-1/yr	0.25	1/yr
M		
A50-yr		
L50-cm		
<hr/>		
Parameter	Value	Units

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1980	1980	1980	1980
Maximum year	2006	2003	2006	2006
Time series minimum	9499.56	20310	0	9499.56
Time series maximum	105135.41	1062360	0.256	105135.41
Units	MT	E03	1/yr	MT
				E03



# Assessment of Sitka pacific herring (*Clupea pallasii*)

Assessment ID:ADFG-HERRSITKA-1978-2007-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/293>

Area ID: USA-US State-SITKA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Department of Fish and Game
Assessment authors	Hulson, Peter-John F.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1978-2007
Document	Hulson-et-al-2008-ICESJM.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-12-08
Date last loaded	2010-07-27
QA/QC complete	NO
Date approved	

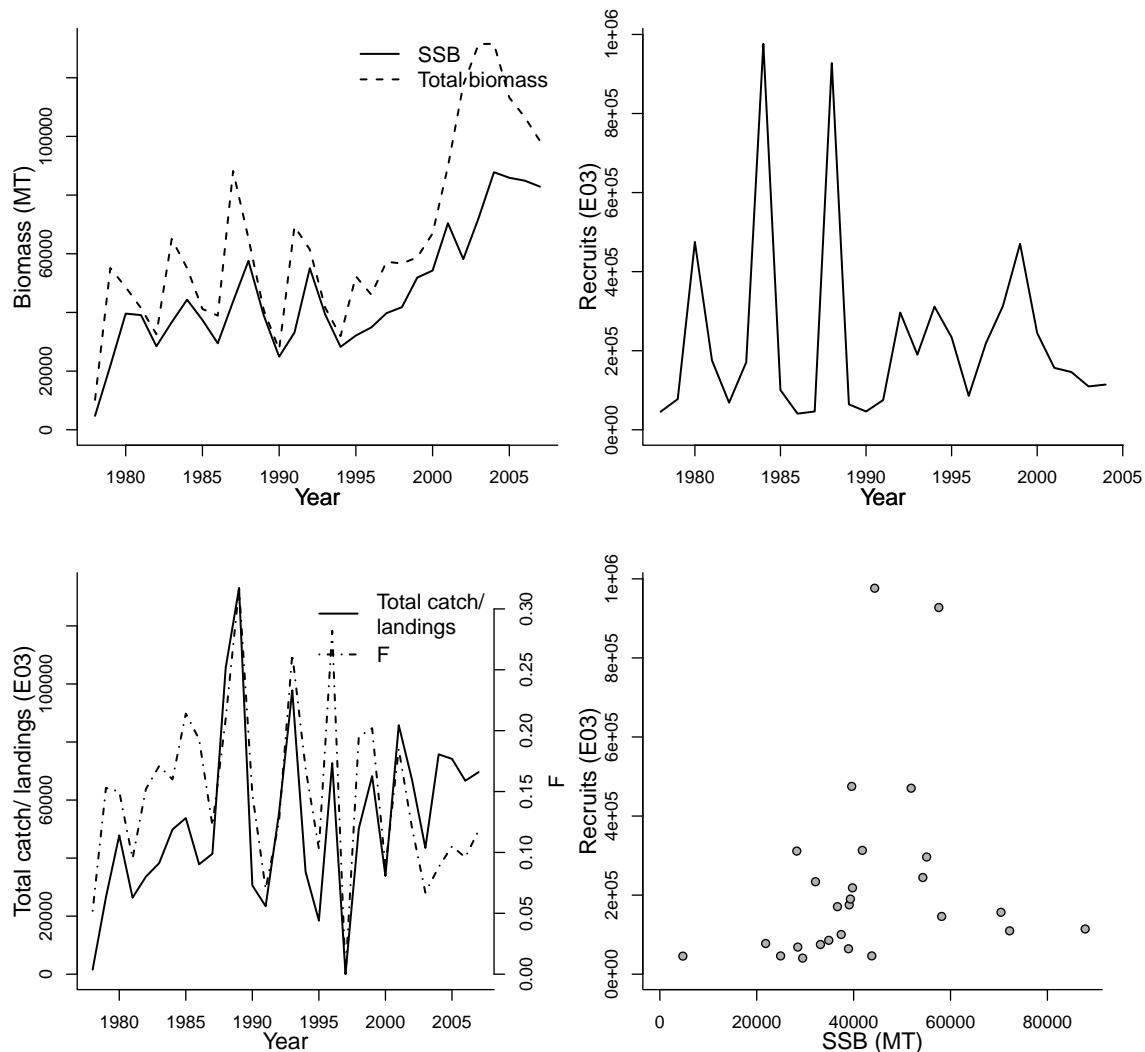
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
2 - Gulf of Alaska	na	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	3+	yr
SSB-SEX-sex	0	sex
REC-AGE-yr	3	yr
F-AGE-yr-yr	3+	yr-yr
TB-AGE-yr	3+	yr
A50-yr	3.4	yr
M-1/yr	0.3-0.1	1/yr
M		
L50-cm		

Parameter	Value	Units	Reference points
			Parameter Value Units

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1978	1978	1978
Maximum year	2007	2004	2007	2007
Time series minimum	4748.72	40750	0	10197.29
Time series maximum	87794.21	976340	0.317	131565.34
Units	MT	E03	1/yr	MT
				E03



# Assessment of Bering Sea and Aleutian Islands alaska plaice (*Pleuronectes quadrituberculatus*)

Assessment ID:AFSC-ALPLAICBSAI-1972-2008-MELNYCHUK

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/269>

Area ID: USA-NMFS-BSAI

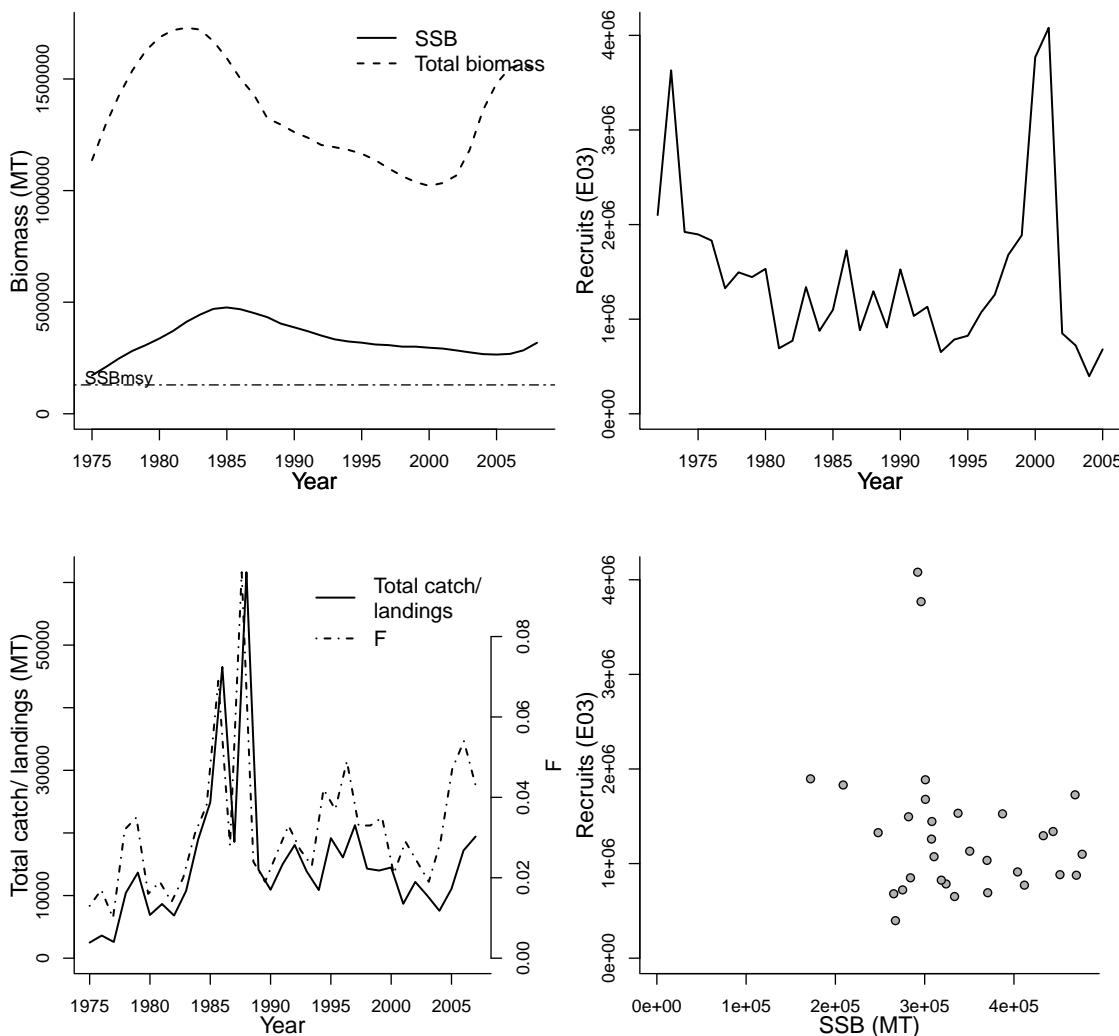
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Wilderbuer WT
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1972-2008
Document	AFSC-ALPLAICBSAI-2008-Alaska plaice BSAI.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2010-05-10
QA/QC complete	YES
Date approved	2010-05-10

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

primary LME			secondary LME	tertiary LME	
1 - East Bering Sea			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	1	sex	Parameter	Value	Units
REC-AGE-yr	3	yr	Fmsy-1/yr (F)	0.62	1/yr
F-AGE-yr-yr	3+	yr-yr	NATMORT-1/yr (M)	0.25	1/yr
TB-AGE-yr	3+	yr	F40%-1/T	0.86	1/T
M-1/yr	0.25	1/yr	SSBmsy-MT (SSB)	129300	MT
NATMORT-1/yr	0.25	1/yr	SSBF40%-MT	147850	MT
SSB-AGE-yr			$F_{2008}/F_{msy}$	0.069	
M			$SSB_{2008}/SSB_{msy}$	2.461	
A50-yr					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1975	1972	1975	1975
Maximum year	2008	2005	2008	2008
Time series minimum	172125	397000	0.01	1021130
Time series maximum	476423	4080000	0.096	1729330
Units	MT	E03	1/yr	MT



# Assessment of Bering Sea and Aleutian Islands arrowtooth flounder (*Reinhardtius stomias*)

Assessment ID:AFSC-ARFLOUNDBSAI-1970-2008-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/244>

Area ID: USA-NMFS-BSAI

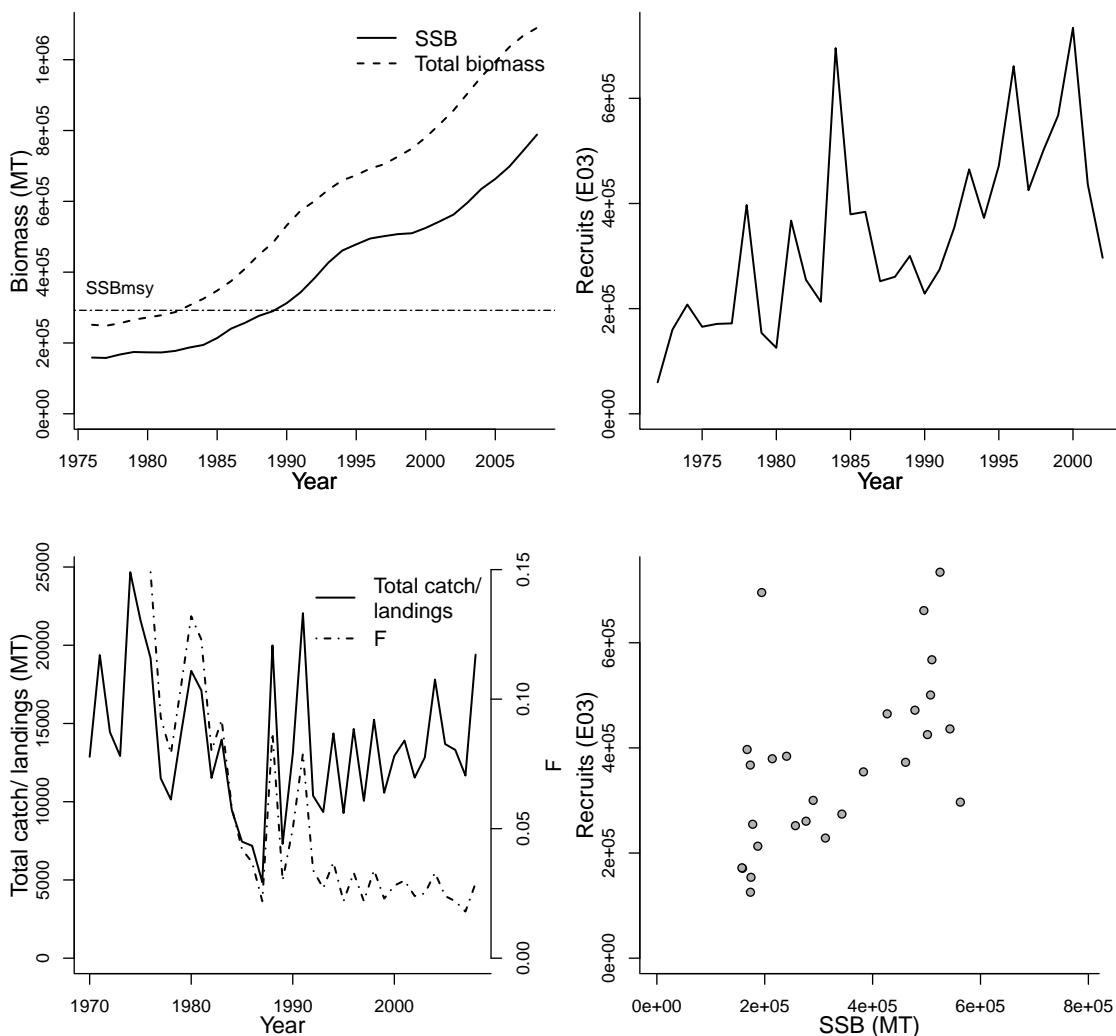
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Wilderbuer TK
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1970-2008
Document	AFSC-ARFLOUNDBSAI-2007-Arrowtooth flounder BSAI.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-03
Date last loaded	2010-02-10
QA/QC complete	YES
Date approved	2010-02-10

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

primary LME			secondary LME		tertiary LME
1 - East Bering Sea			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	1+	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	SSBmsy-MT (SSB)	292200.00	MT
REC-AGE-yr	2	yr	Flim-1/yr (F)	0.29	1/yr
F-AGE-yr-yr	1+	yr-yr	Fpa-1/yr (F)	0.235	1/yr
TB-AGE-yr	1+	yr	$F_{2008}/F_{lim}$	0.100	
L50-cm	42.2	cm	$SSB_{2008}/SSB_{msy}$	2.698	
M					
A50-yr					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1976	1972	1976	1976
Maximum year	2008	2002	2008	2008
Time series minimum	157687	59880	0.018	248550
Time series maximum	788485	734150	0.149	1090100
Units	MT	E03	1/yr	MT



# Assessment of Gulf of Alaska arrowtooth flounder (*Atheresthes stomias*)

Assessment ID:AFSC-ARFLOUNDGA-1958-2010-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/281>

Area ID: USA-NMFS-GA

## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Turnock, B.J.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1958-2010
Document	2008-SAFE_GOAatf.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-21
Date last loaded	2010-02-10
QA/QC complete	YES
Date approved	2010-02-10

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

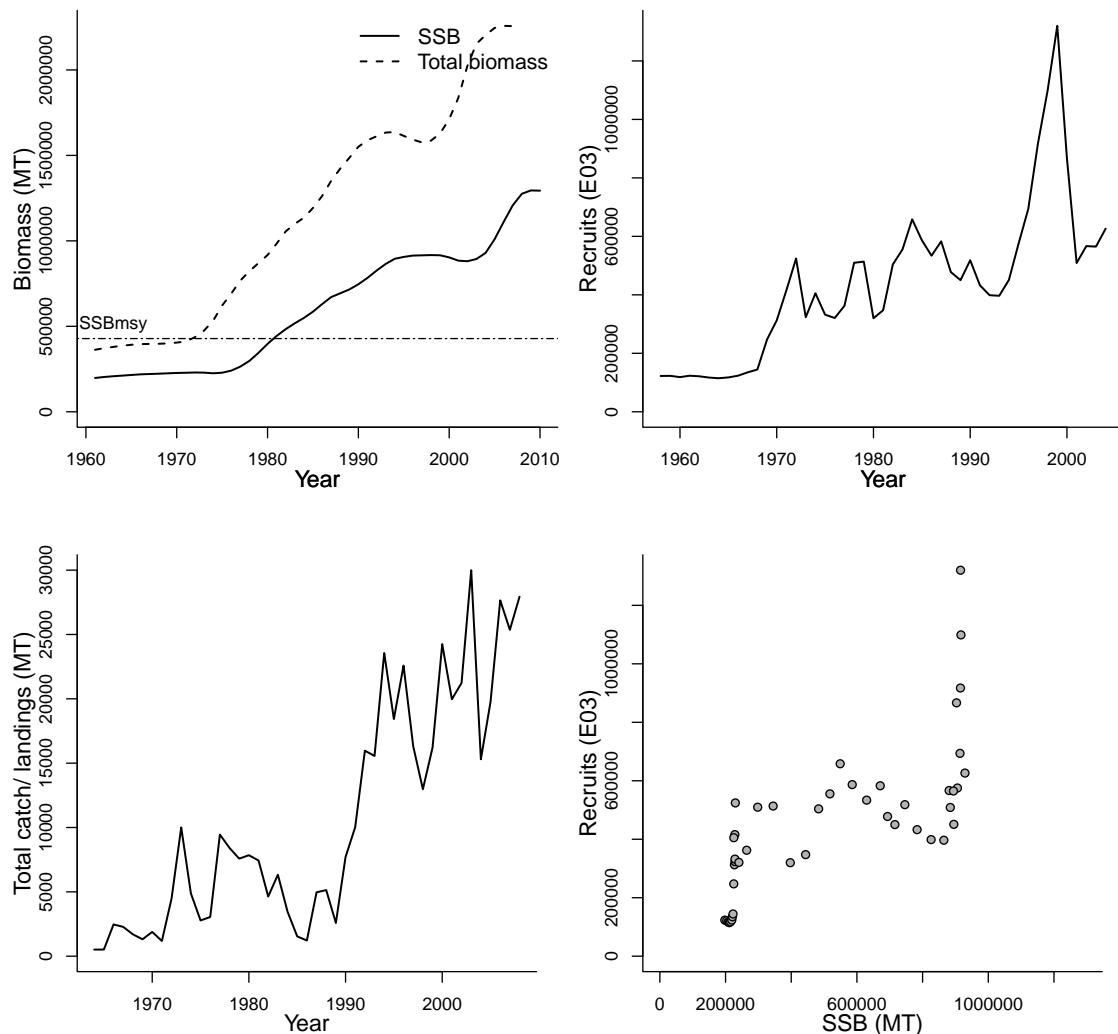
Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			2 - Gulf of Alaska	na	na
SSB-AGE-yr	3+	yr			
SSB-SEX-sex	1	sex			
REC-AGE-yr	3	yr			
TB-AGE-yr	3+	yr			
L50-cm	47	cm			
M-1/yr	0.2	1/yr			
NATMORT-1/yr	0.2	1/yr			
F-AGE-yr					
M					
A50-yr					

Parameter	Reference points	Value	Units
NATMORT-1/yr (M)	0.2	1/yr	
F40%-1/T	0.186	1/T	
SSBmsy-MT (SSB)	428307	MT	
SSBtarget-MT (SSB)	489493	MT	
$SSB_{2010}/SSB_{msy}$	3.020		

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1961	1958		1961	1964
Maximum year	2010	2004		2007	2008
Time series minimum	197773	114710		362688	514
Time series maximum	1295050	1320190		2258230	29994
Units	MT	E03		MT	MT



# Assessment of Bering Sea and Aleutian Islands atka mackerel (*Pleurogrammus monopterygius*)

Assessment ID:AFSC-ATKABSAI-1976-2009-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/240>

Area ID: USA-NMFS-BSAI

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Lowe, S
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1976-2009
Document	2008-SAFE_BSAIatka.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-08
Date last loaded	2010-02-10
QA/QC complete	YES
Date approved	2010-02-10

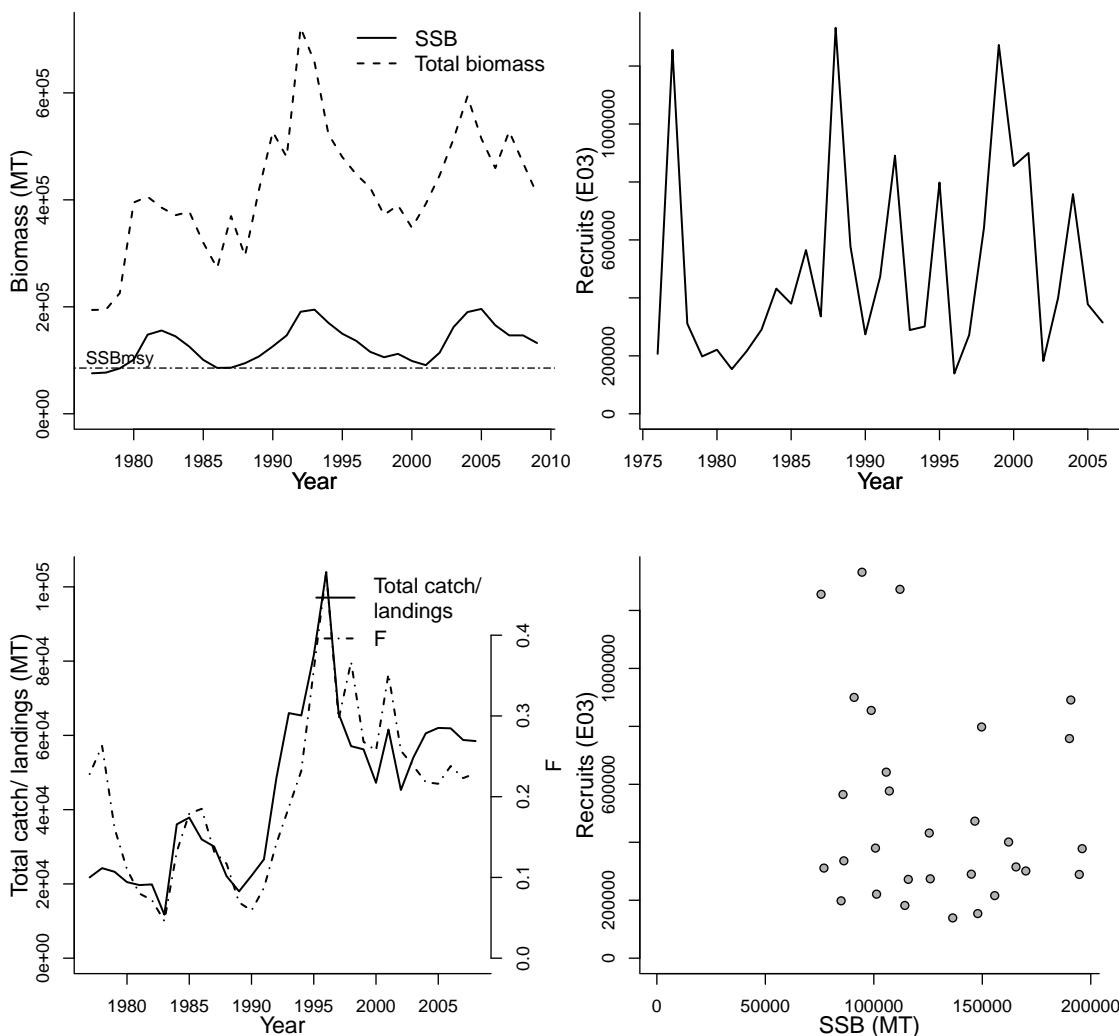
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			1 - East Bering Sea	na	na
SSB-AGE-yr	3+	yr			
SSB-SEX-sex	1	sex			
REC-AGE-yr	1	yr			
F-AGE-yr-yr	1+	yr-yr			
TB-AGE-yr	3+	yr			
A50-yr	3.6	yr			
M-1/yr	0.3	1/yr			
NATMORT-1/yr	0.3	1/yr			
M					
L50-cm					

Parameter	Reference points	Value	Units
Fref-1/T (F)	0.394	1/T	
NATMORT-1/yr (M)	0.3	1/yr	
F40%-1/T	0.394	1/T	
SSBmsy-MT (SSB)	85500.00	MT	
BH-h-dimless	0.8	dimless	
Bpa-MT (TB)	97800.00	MT	
$SSB_{2009}/SSB_{msy}$	1.548		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1977	1976	1977	1977
Maximum year	2009	2006	2008	2009
Time series minimum	75681	139000	0.046	194180
Time series maximum	196040	1332000	0.478	721683
Units	MT	E03	1/yr	MT



# Assessment of Pribilof Islands blue king crab (*Paralithodes platypus*)

Assessment ID:AFSC-BKINGCRABPI-1960-2008-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/261>

Area ID: USA-NMFS-PI

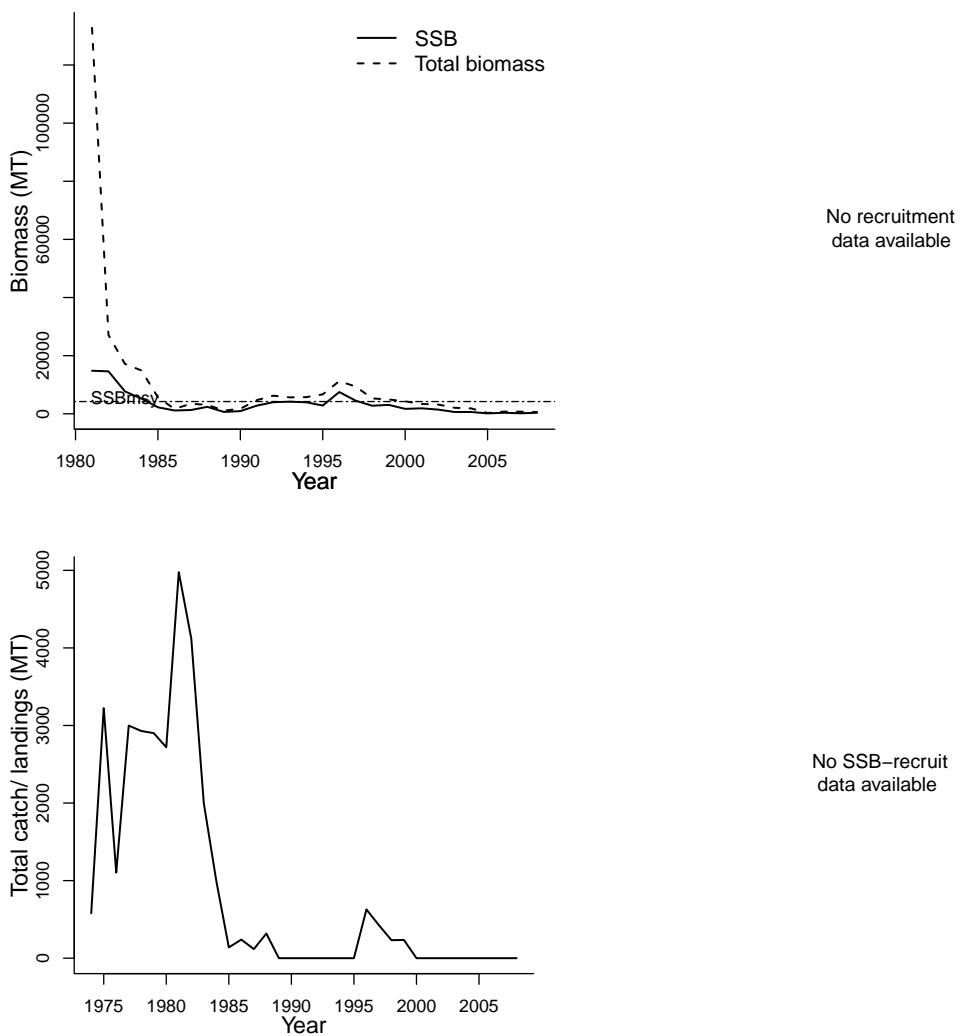
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1960-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2009-06-12

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

primary LME			secondary LME		tertiary LME	
1 - East Bering Sea			na		na	
Parameter	Value	Units				
SSB-SEX-sex	2	sex				
REC-AGE			Reference points			
SSB-AGE-yr			Parameter	Value	Units	
TB-AGE-yr			SSB <sub>m</sub> sy-MT (SSB)	4209.33376	MT	
F-AGE-yr			SSB <sub>2008</sub> /SSB <sub>m</sub> sy	0.082		
M						
A50-yr						
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1981			1981
Maximum year	2008			2008
Time series minimum	131.54			263.08
Time series maximum	14800.71			132798.13
Units	MT			MT



# Assessment of Saint Matthews Island blue king crab (*Paralithodes platypus*)

Assessment ID:AFSC-BKINGCRABSMI-1960-2008-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/262>

Area ID: USA-NMFS-SMI

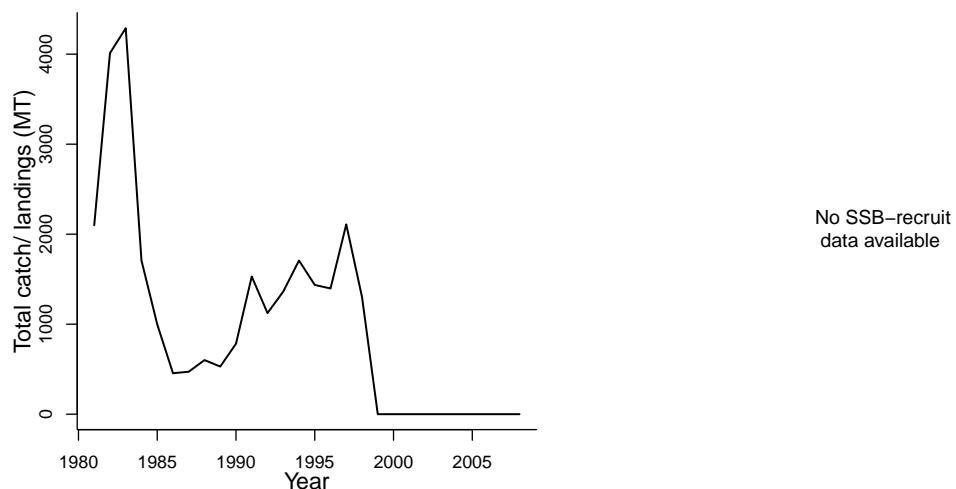
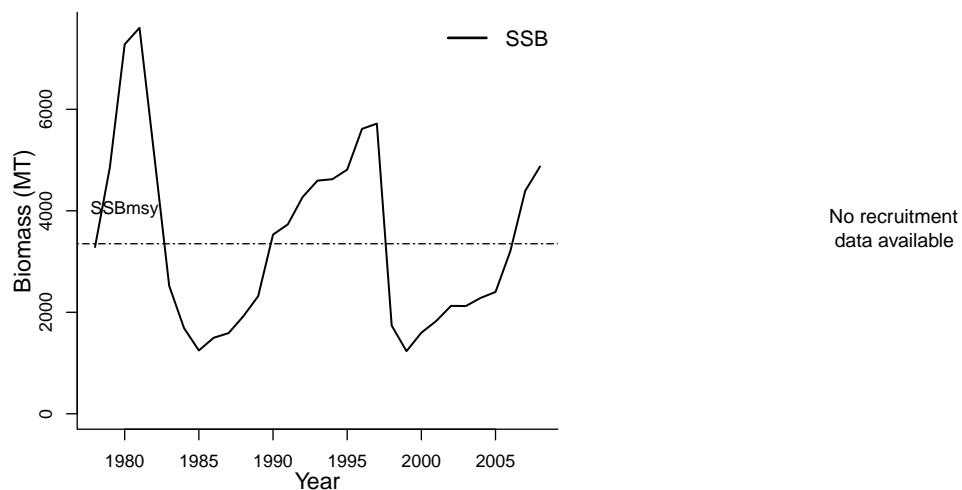
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1960-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2009-06-12

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

primary LME			secondary LME		tertiary LME		
1 - East Bering Sea			na		na		
Parameter	Value	Units					
SSB-SEX-sex	2	sex					
REC-AGE				Reference points			
SSB-AGE-yr				Parameter	Value	Units	
TB-AGE-yr				SSB <sub>m</sub> sy-MT (SSB)	3350.68	MT	
F-AGE-yr				$SSB_{2008}/SSB_{m\text{sy}}$	1.454		
M							
A50-yr							
L50-cm							

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978				1981
Maximum year	2008				2008
Time series minimum	1234.22				0
Time series maximum	7606.28				4288.41
Units	MT				MT



# Assessment of Northern California cabezon (*Scorpaenichthys marmoratus*)

Assessment ID:AFSC-CABEZNCAL-1916-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/338>

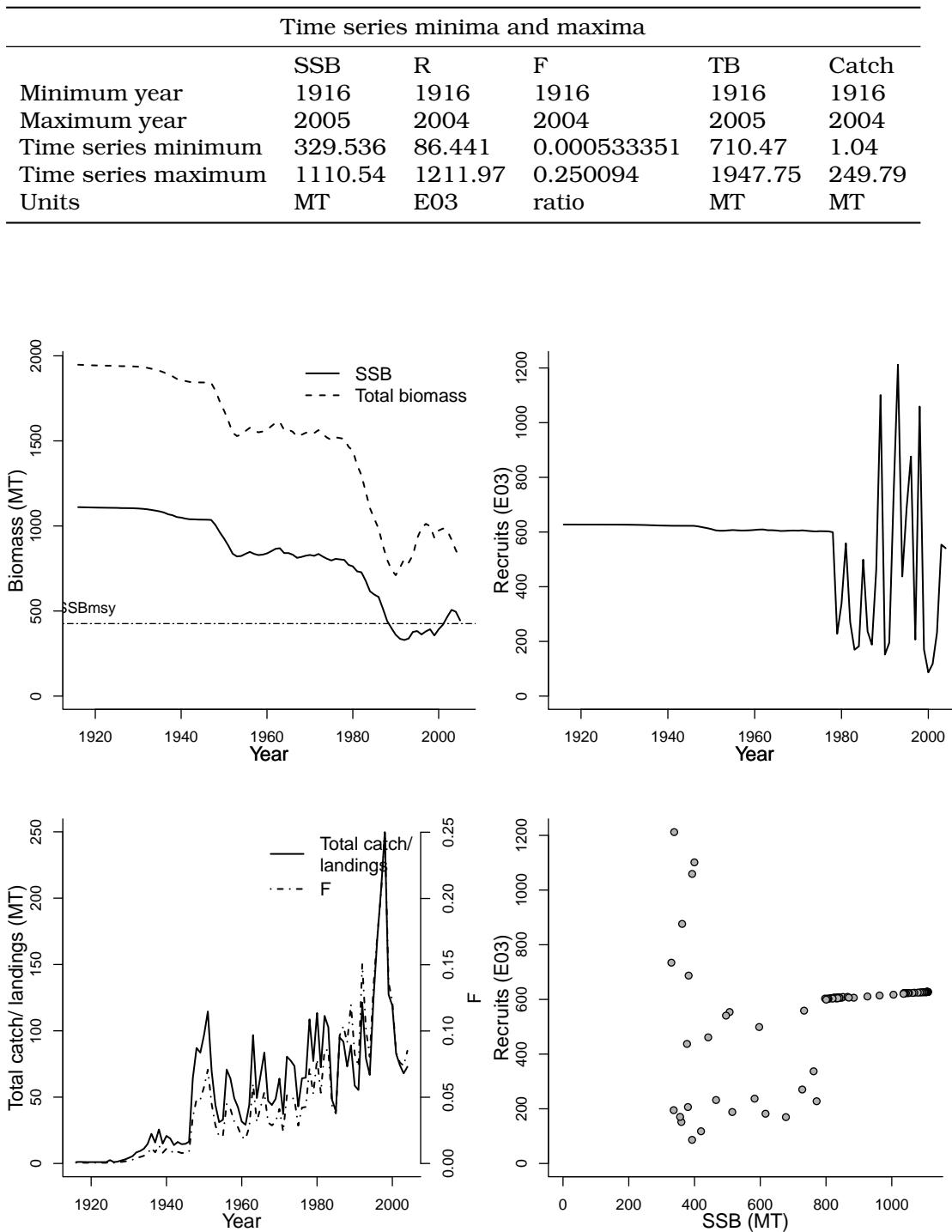
Area ID: USA-NMFS-NCAL

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Cope, Jason
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1916-2005
Document	2005-SAFE-WCcabezon.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-19
Date last loaded	2010-01-29
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	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	4+	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.25	1/yr	
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	426	MT	
F-AGE-yr-yr	0+	yr-yr	MSY-MT (TB)	119	MT	
TB-AGE-yr	0+	yr	Umsy-ratio (U)	0.13	ratio	
M-1/yr	0.25	1/yr	SSB0-MT (SSB)	1110	MT	
NATMORT-1/yr	0.25	1/yr	B0-MT	1858	MT	
M			SSB <sub>2005</sub> /SSB <sub>msy</sub>	1.044		
A50-yr						
L50-cm						



# Assessment of Southern California cabezon (*Scorpaenichthys marmoratus*)

Assessment ID:AFSC-CABEZSCAL-1932-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/337>

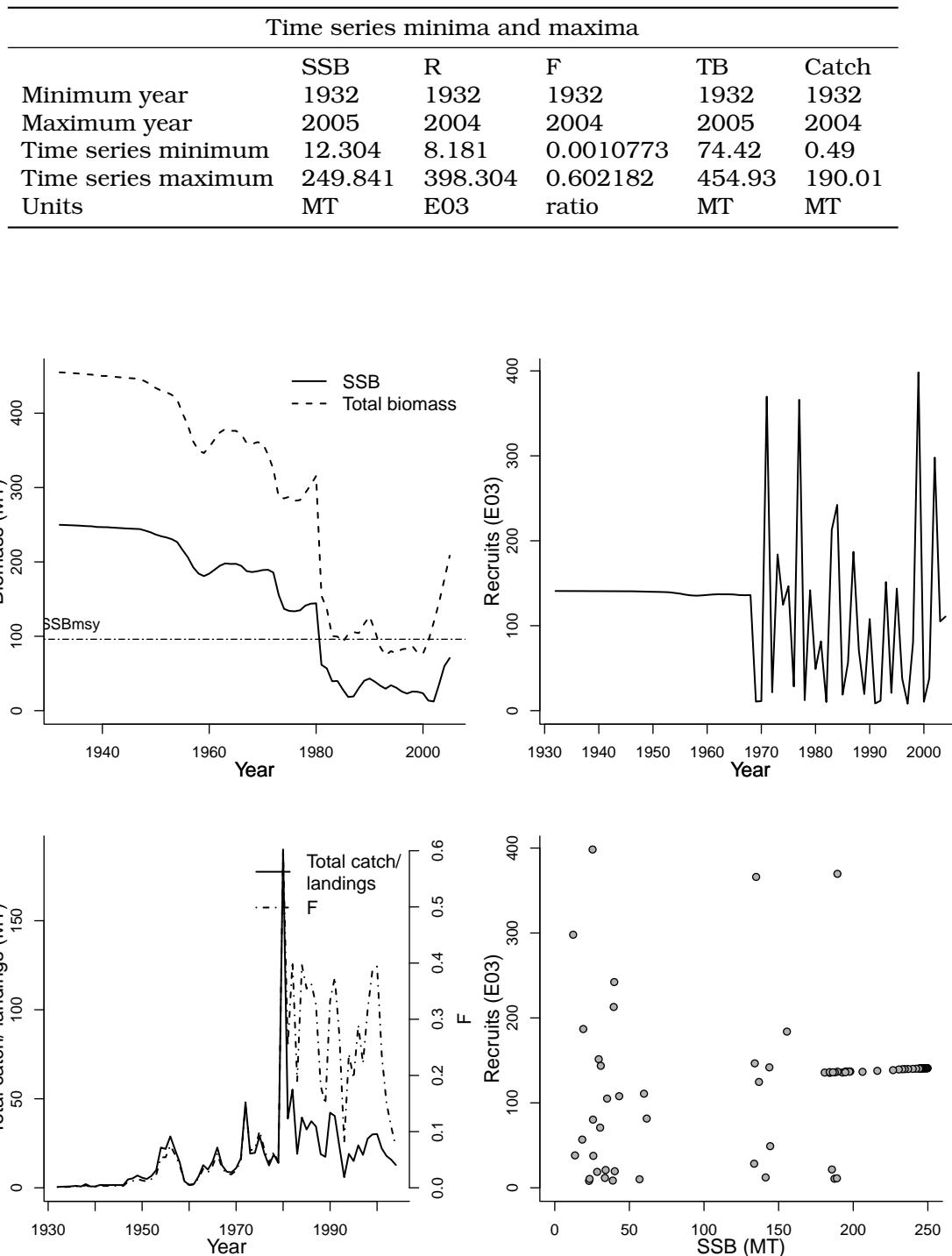
Area ID: USA-NMFS-SCAL

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Cope, Jason
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1932-2005
Document	2005_SAFE_Wccabezon.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-19
Date last loaded	2010-01-29
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	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	4+	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.25	1/yr	
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	96	MT	
F-AGE-yr-yr	0+	yr-yr	MSY-MT (TB)	26	MT	
TB-AGE-yr	0+	yr	Umsy-ratio (U)	0.13	ratio	
M-1/yr	0.25	1/yr	SSB0-MT (SSB)	251	MT	
NATMORT-1/yr	0.25	1/yr	B0-MT	433	MT	
M			SSB <sub>2005</sub> /SSB <sub>msy</sub>	0.738		
A50-yr						
L50-cm						



# Assessment of Gulf of Alaska dover sole (*Microstomus pacificus*)

Assessment ID:AFSC-DSOLEGA-1978-2010-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/291>

Area ID: USA-NMFS-GA

## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Stockhausen, W.T.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1978-2010
Document	2007_SAFE_GOAdeepflat.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-27
Date last loaded	2009-11-06
QA/QC complete	NO
Date approved	

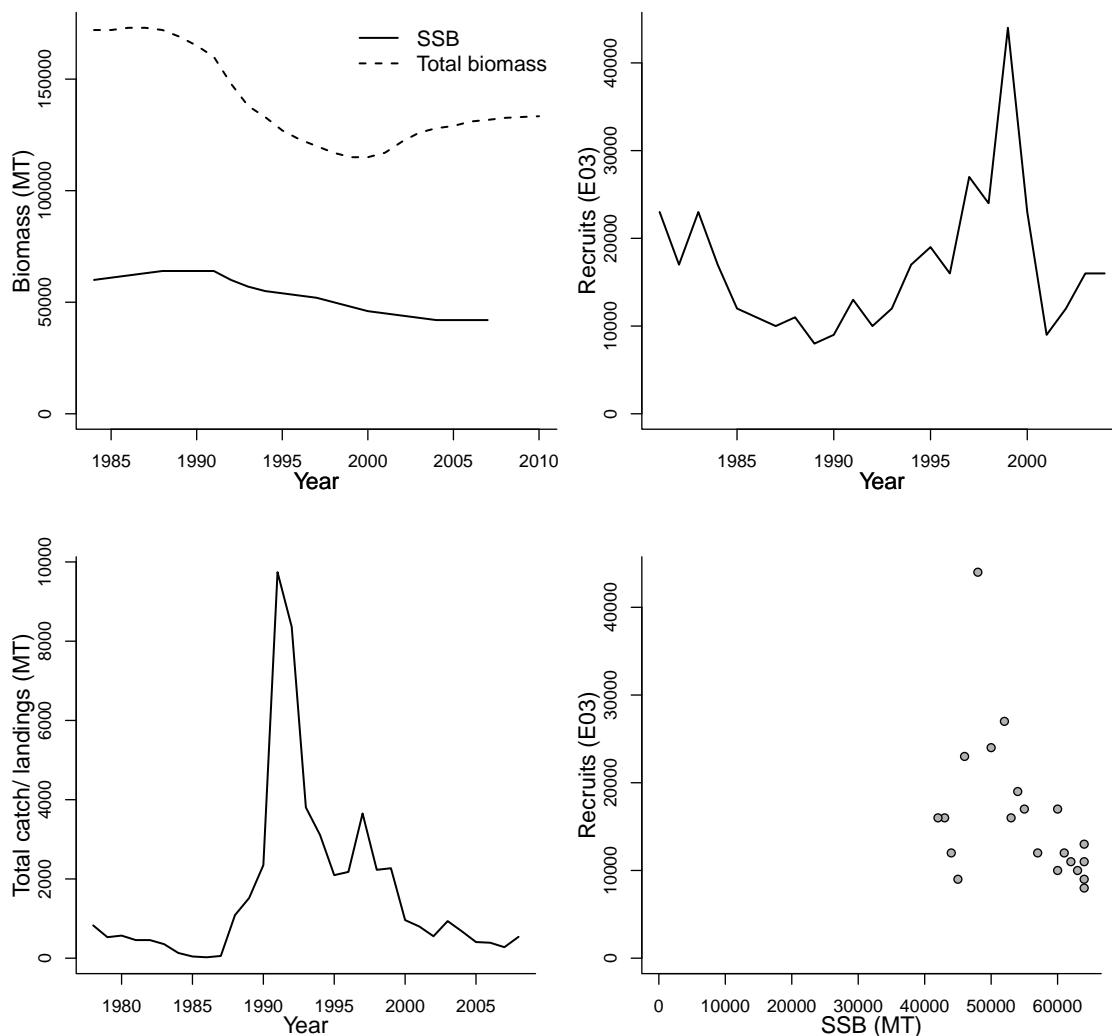
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			2 - Gulf of Alaska	na	na
SSB-AGE-yr	3+	yr			
SSB-SEX-sex	1	sex			
REC-AGE-yr	3	yr			
TB-AGE-yr	3+	yr			
A50-yr	6.7	yr			
L50-cm	43.9	cm			
M-1/yr	0.085	1/yr			
NATMORT-1/yr	0.085	1/yr			
F-AGE-yr					
M					

Parameter	Value	Units	Reference points
NATMORT-1/yr (M)	0.085	1/yr	
F40%-1/T	0.137	1/T	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1984	1981		1984
Maximum year	2007	2004		2010
Time series minimum	42000	8000		115000
Time series maximum	64000	44000		173000
Units	MT	E03	MT	MT



# Assessment of Gulf of Alaska dusky rockfish (*Sebastodes variabilis*)

Assessment ID:AFSC-DUSROCKGA-1973-2008-MELNYCHUK

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/283>

Area ID: USA-NMFS-GA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Lunsford, C.R.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1973-2008
Document	AFSC-DUSROCKGA-2008-Dusky rockfish GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-21
Date last loaded	2009-05-22
QA/QC complete	YES
Date approved	2010-07-27

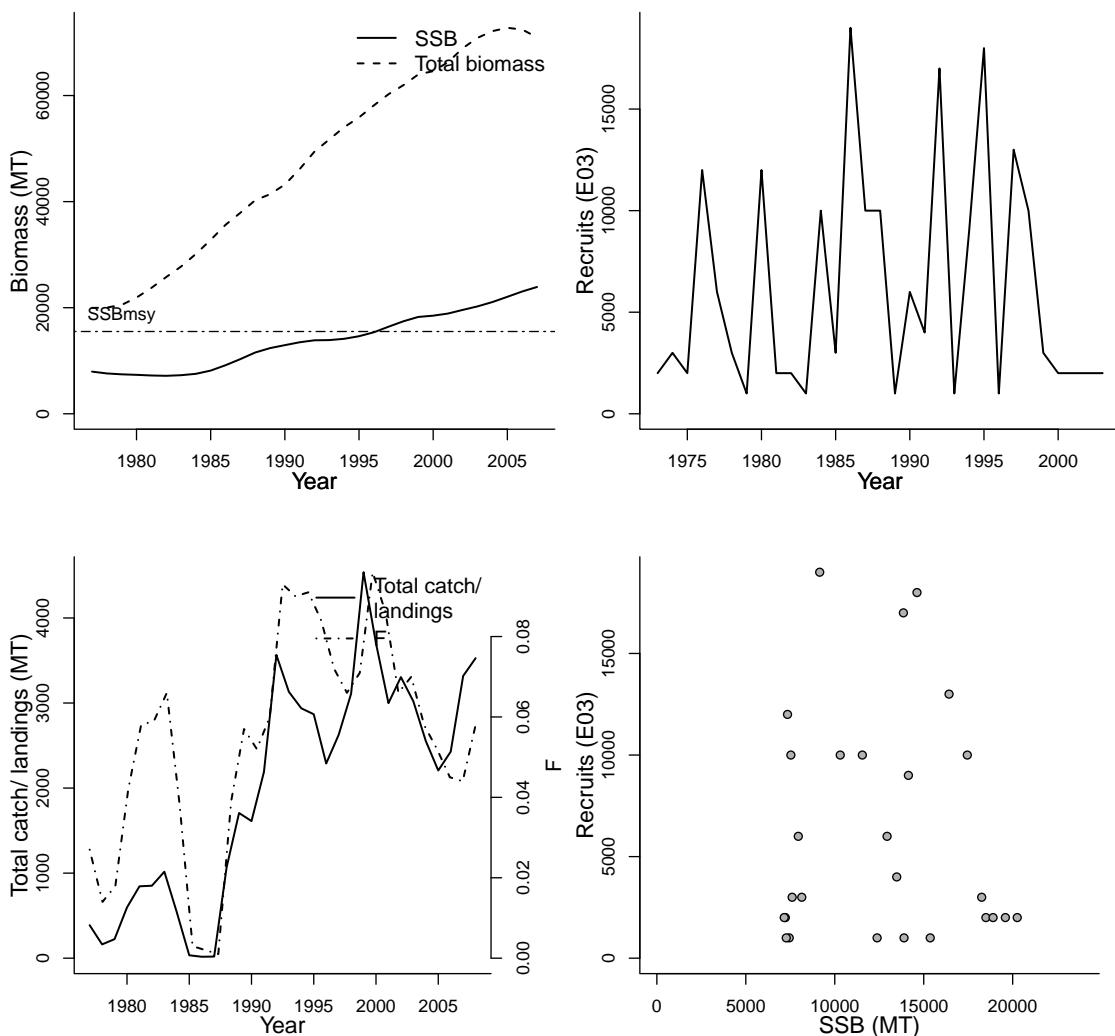
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			2 - Gulf of Alaska	na	na
SSB-AGE-yr	11.3	yr			
SSB-SEX-sex	1	sex			
REC-AGE-yr	4	yr			
TB-AGE-yr	4+	yr			
A50-yr	11.3	yr			
L50-cm	42.8	cm			
M-1/yr	0.07	1/yr			
NATMORT-1/yr	0.07	1/yr			
F-AGE-yr					
M					

Parameter	Reference points	Value	Units
SSB-AGE-yr	Parameter		
SSB-SEX-sex	Value	0.107	1/yr
REC-AGE-yr	Parameter		
TB-AGE-yr	Value	0.07	1/yr
A50-yr	Parameter		
L50-cm	Value	0.087	1/T
M-1/yr	Parameter		
NATMORT-1/yr	Value	15511	MT
F-AGE-yr	Parameter		
M	Value	17727	MT
	Parameter		
	Value	0.542	
	Parameter		
	Value	1.541	
	Parameter		
	Value		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1973	1977	1977	1977
Maximum year	2007	2003	2007	2007	2008
Time series minimum	7159	1000	0.001	19948	17
Time series maximum	23907	19000	0.096	72771	4538
Units	MT	E03	1/yr	MT	MT



# Assessment of Bering Sea and Aleutian Islands flathead sole (*Hippoglossoides elassodon*)

Assessment ID:AFSC-FLSOLEBSAI-1977-2008-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/232>

Area ID: USA-NMFS-BSAI

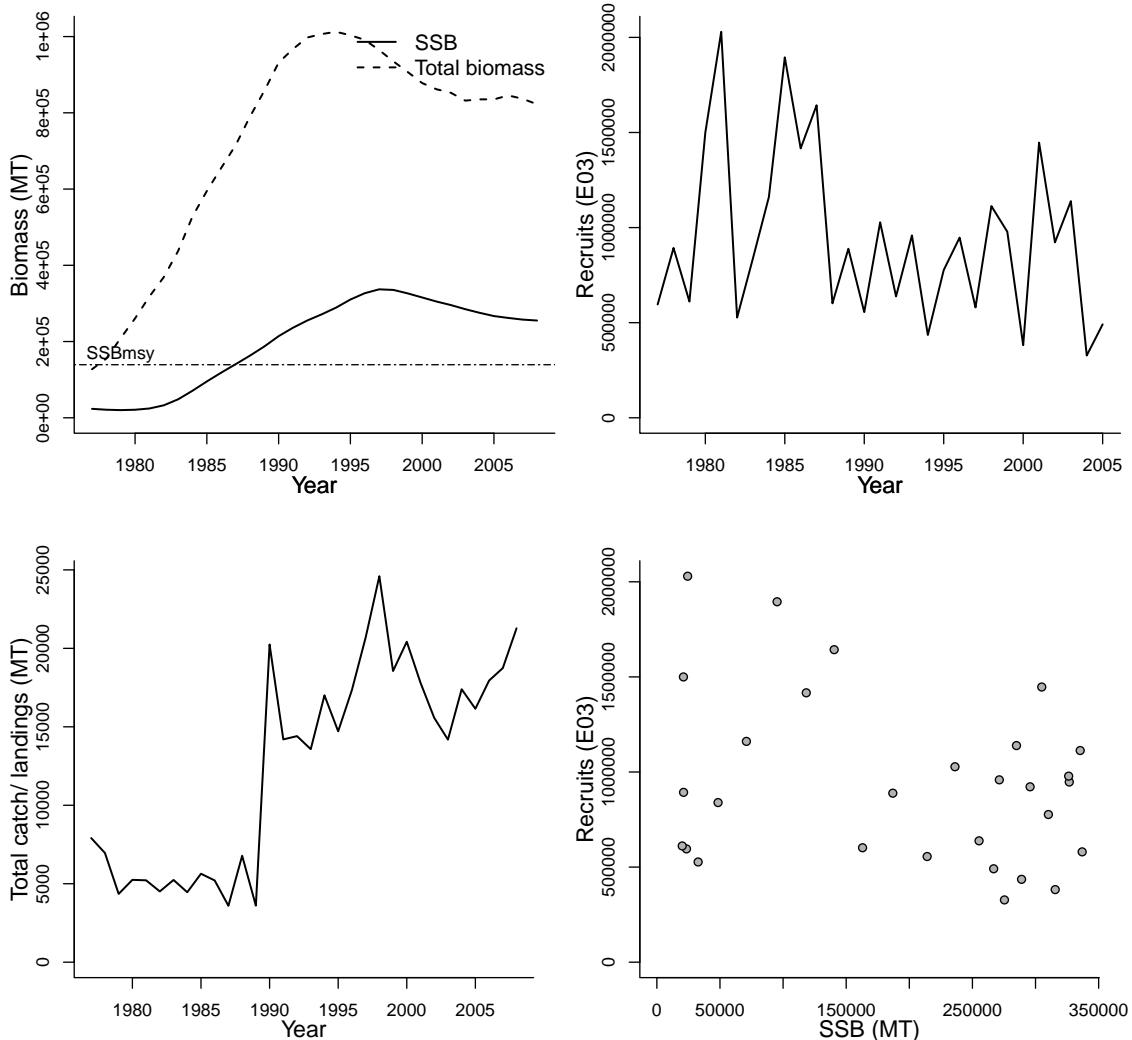
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Stockhausen WT
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1977-2008
Document	2008_SAFE_BSAIflathead.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-06
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-02-10

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

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			1 - East Bering Sea	na	na
SSB-AGE-yr	3+	yr			
SSB-SEX-sex	1	sex	SSBmsy-MT (SSB)	139188	MT
REC-AGE-yr	3	yr	Fmsy-1/yr (F)	0.279	1/yr
F-AGE-yr-yr		yr-yr	SSB0-MT (SSB)	347970	MT
TB-AGE-yr	3+	yr	SSBtarget-MT (SSB)	139188	MT
M-1/yr	0.2	1/yr	SSBmin-ratio (SSB)	0.35000143690548	ratio
M			Ftarget-1/yr (F)	0.279	1/yr
A50-yr			MSY-MT (TB)	121790	MT
L50-cm			$SSB_{2008}/SSB_{msy}$	1.833	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1977	1977		1977
Maximum year	2008	2005		2008
Time series minimum	20088	327460		127340
Time series maximum	336954	2029400		1012500
Units	MT	E03	MT	MT



# Assessment of Gulf of Alaska flathead sole (*Hippoglossoides elassodon*)

Assessment ID:AFSC-FLSOLEGA-1978-2008-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/280>

Area ID: USA-NMFS-GA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Stockhausen, W.T.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1978-2008
Document	2008_SAFE_GOAflathead.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-20
Date last loaded	2009-11-05
QA/QC complete	NO
Date approved	

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

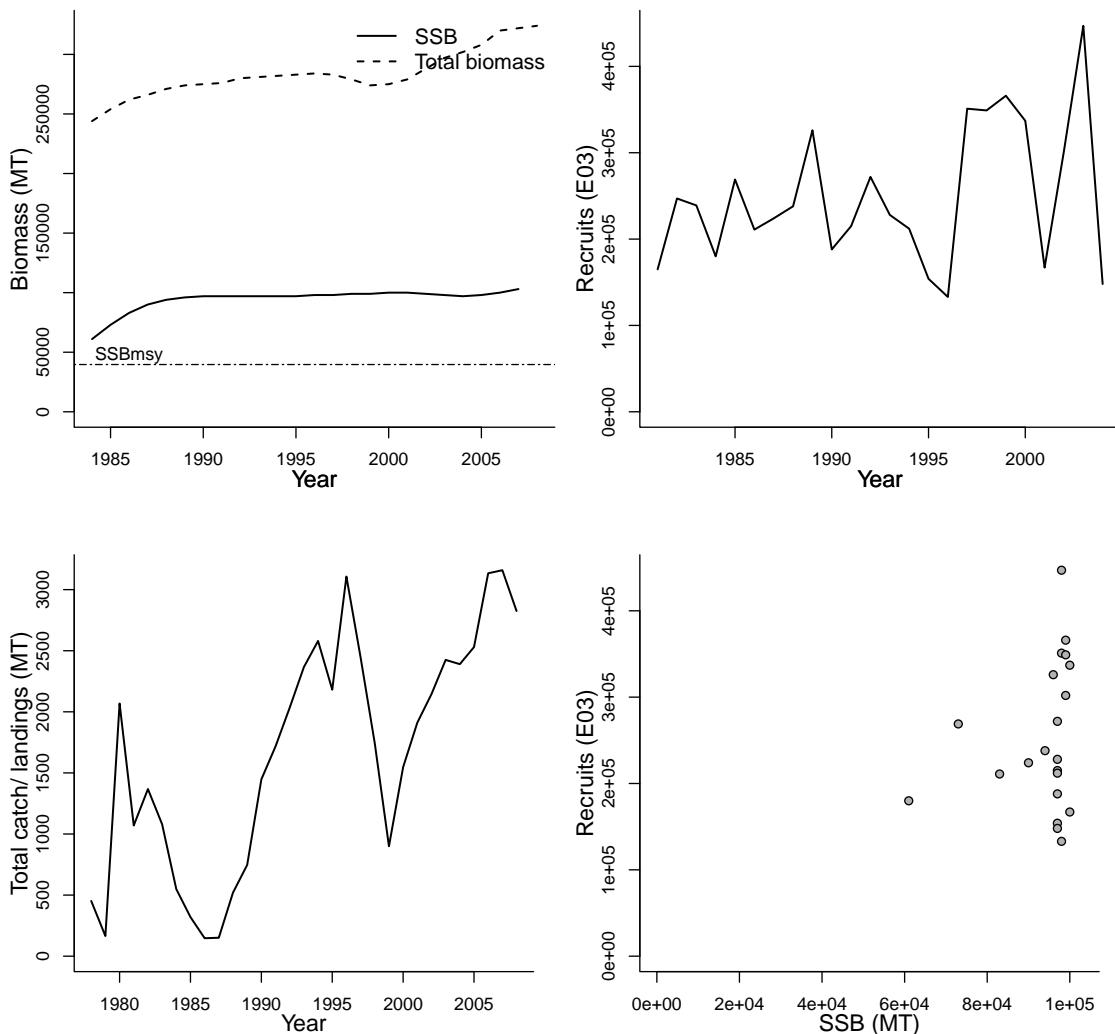
Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			2 - Gulf of Alaska	na	na
SSB-AGE-yr	3+	yr			
SSB-SEX-sex	1	sex			
REC-AGE-yr	3	yr			
F-AGE-yr-yr	3+	yr-yr			
TB-AGE-yr	3+	yr			
A50-yr	8.74	yr			
L50-cm	33.3	cm			
M-1/yr	0.2	1/yr			
NATMORT-1/yr	0.2	1/yr			
M					

Parameter	Reference points	Value	Units
NATMORT-1/yr (M)	0.2	1/yr	
F40%-1/T	0.38	1/T	
SSBmsy-MT (SSB)	39663	MT	
$SSB_{2007}/SSB_{msy}$	2.597		

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1984	1981		1984	1978
Maximum year	2007	2004		2008	2008
Time series minimum	61000	133000		244000	147
Time series maximum	103000	447000		324000	3159
Units	MT	E03		MT	MT



# Assessment of Gulf of Alaska flathead sole (*Hippoglossoides elassodon*)

Assessment ID:AFSC-FLSOLEGA-1978-2010-Stachura

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/280>

Area ID: USA-NMFS-GA

## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Stockhausen, W.T.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2010
Timeseries span	1978-2010
Document	AFSC-FLSOLEGA-2010.pdf (pdf in database)
Recorder	Stachura
Date entered	2011-03-29
Date last loaded	2011-05-19
QA/QC complete	NO
Date approved	

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

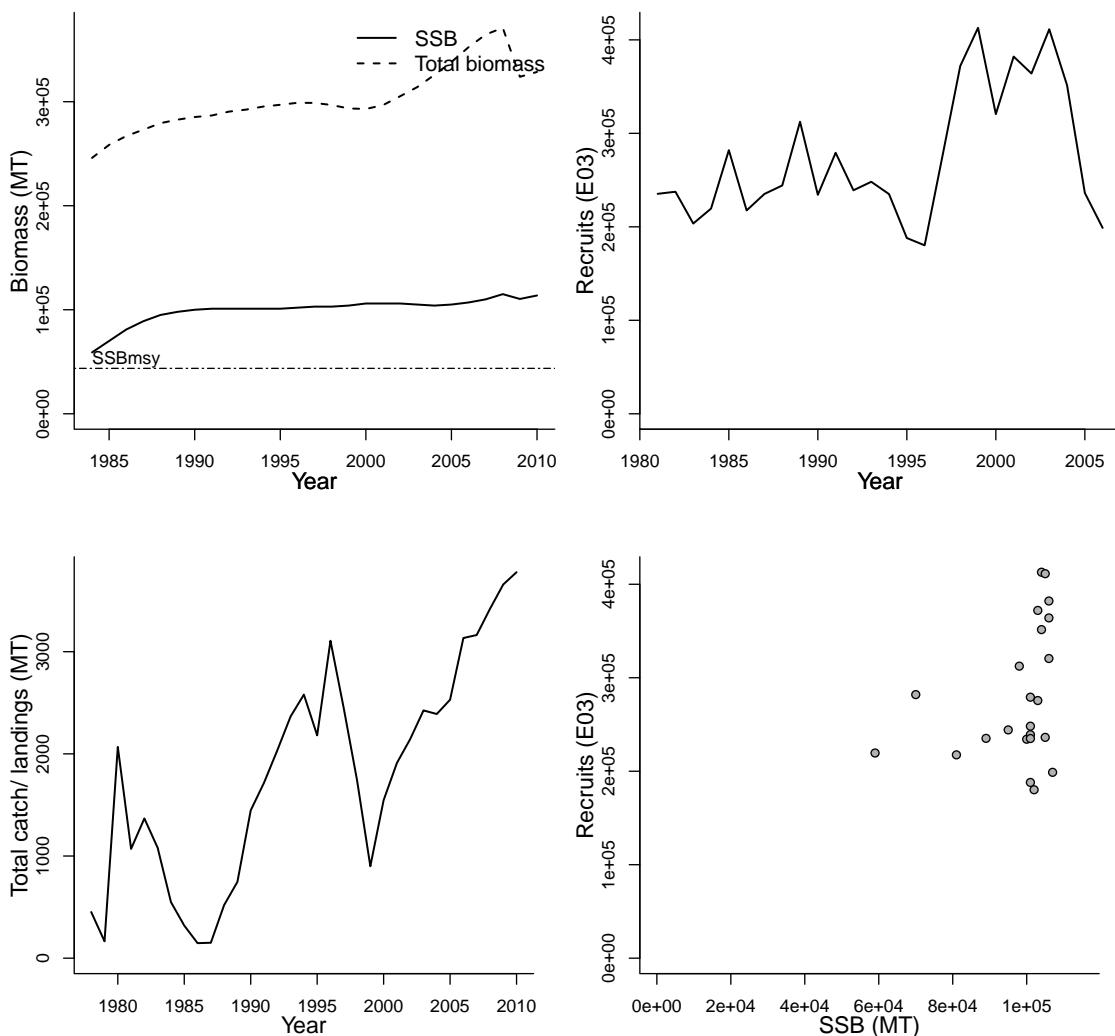
Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			2 - Gulf of Alaska	na	na
SSB-AGE-yr	3+	yr			
SSB-SEX-sex	1	sex			
REC-AGE-yr	3	yr			
TB-AGE-yr	3+	yr			
A50-yr	8.74	yr			
L50-cm	33.33	cm			
M-1/yr	0.2	1/yr			
NATMORT-1/yr	0.2	1/yr			
F-AGE-yr					
M					

Parameter	Value	Units	Reference points	Value	Units
SSB-AGE-yr	3+	yr	Parameter		
SSB-SEX-sex	1	sex			
REC-AGE-yr	3	yr	Fmsy-1/yr (F)	0.481	1/yr
TB-AGE-yr	3+	yr	NATMORT-1/yr (M)	0.2	1/yr
A50-yr	8.74	yr	F40%-1/T	0.371	1/T
L50-cm	33.33	cm	SSBmsy-MT (SSB)	43661	MT
M-1/yr	0.2	1/yr	SSB <sub>2010</sub> /SSB <sub>m sy</sub>	2.605	
NATMORT-1/yr	0.2	1/yr			
F-AGE-yr					
M					

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1984	1981		1984	1978
Maximum year	2010	2006		2010	2010
Time series minimum	59000	180200		245970	147.3
Time series maximum	115000	412900		371040	3778
Units	MT	E03		MT	MT



# Assessment of Bering Sea and Aleutian Islands greenland halibut (*Reinhardtius hippoglossoides*)

Assessment ID:AFSC-GHALBSAI-1960-2009-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/243>

Area ID: USA-NMFS-BSAI

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Ianelli, JN
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1960-2009
Document	2008_SAFE_BSAIturbot.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-07
Date last loaded	2010-02-12
QA/QC complete	YES
Date approved	2010-02-10

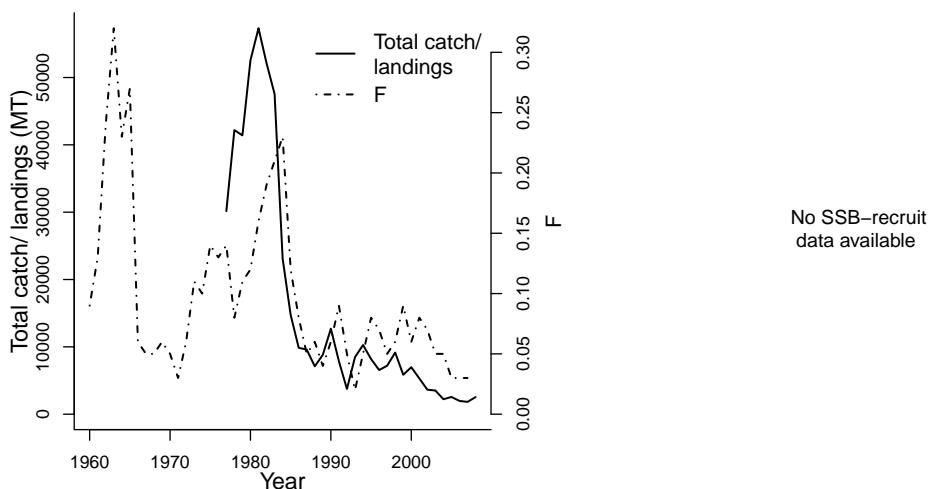
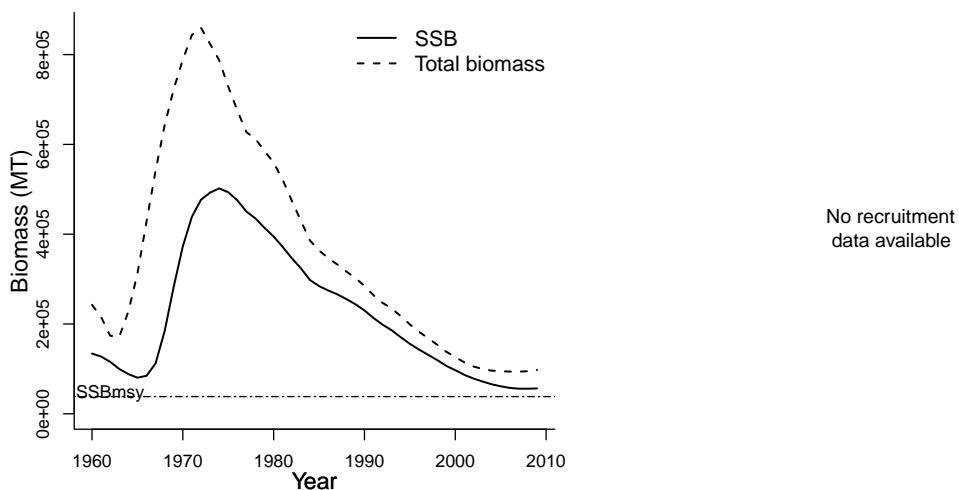
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			1 - East Bering Sea	na	na
SSB-AGE-yr	1+	yr			
SSB-SEX-sex	1	sex			
REC-AGE-yr	0+	yr			
F-AGE-yr-yr	1+	yr-yr			
TB-AGE-yr	1+	yr			
M-1/yr	0.112	1/yr			
NATMORT-1/yr	0.112	1/yr			
M					
A50-yr					
L50-cm					

Parameter	Value	Units	Reference points	Parameter	Value	Units
SSB-AGE-yr	1+	yr				
SSB-SEX-sex	1	sex				
REC-AGE-yr	0+	yr				
F-AGE-yr-yr	1+	yr-yr				
TB-AGE-yr	1+	yr				
M-1/yr	0.112	1/yr				
NATMORT-1/yr	0.112	1/yr				
M						
A50-yr						
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1960		1960	1960
Maximum year	2009		2007	2009
Time series minimum	55876		0.02	93914
Time series maximum	502063		0.32	859695
Units	MT		1/yr	MT



# Assessment of Aleutian Islands Eastern segment golden king crab (*Lithodes aequispinus*)

Assessment ID:AFSC-GKINGCRABAIES-1990-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/264>

Area ID: USA-NMFS-AIES

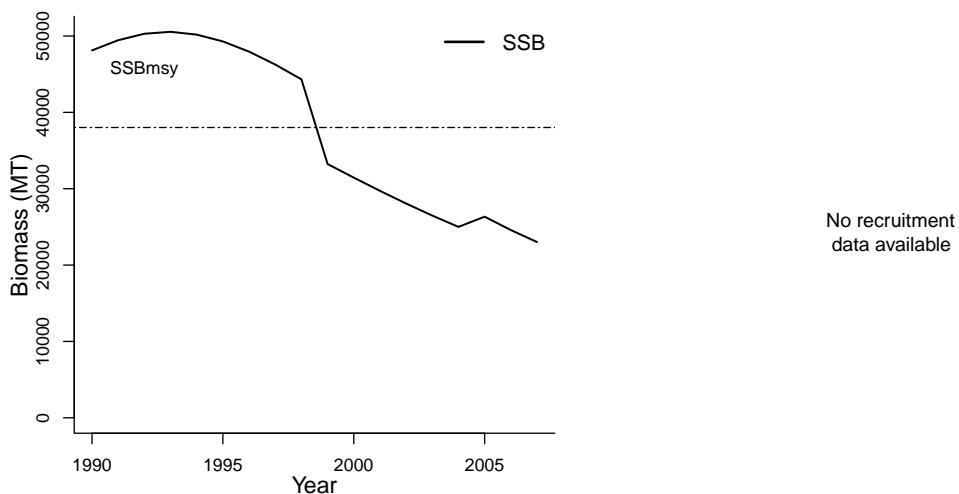
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	An AD-Model Builder catch at length model
Publication year	2008
Timeseries span	1990-2007
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2010-07-28

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

primary LME		secondary LME	tertiary LME
1 - East Bering Sea		na	na
Parameter	Value	Units	
SSB-SEX-sex	2	sex	
M-1/yr	0.1442	1/yr	
REC-AGE		Reference points	
SSB-AGE-yr		Parameter	Value
TB-AGE-yr		SSBmsy-MT (SSB)	38018
F-AGE-yr		$SSB_{2007}/SSB_{msy}$	0.605
M			
A50-yr			
L50-cm			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1990				
Maximum year	2007				
Time series minimum	23018				
Time series maximum	50552				
Units	MT				



No exploitation  
data available

No SSB–recruit  
data available

# Assessment of Aleutian Islands Western segment golden king crab (*Lithodes aequispinus*)

Assessment ID:AFSC-GKINGCRABAIWS-1989-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/265>

Area ID: USA-NMFS-AIWS

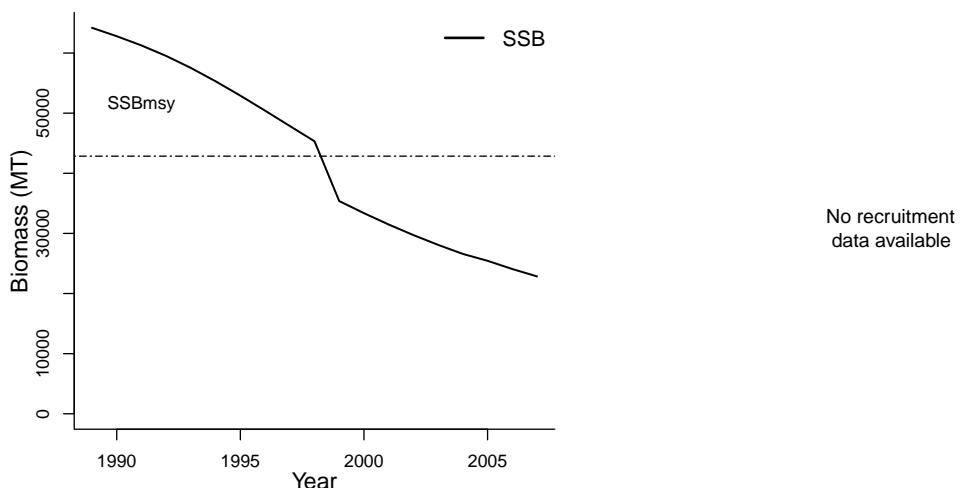
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	An AD-Model Builder catch at length model
Publication year	2008
Timeseries span	1989-2007
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2010-07-28

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

primary LME			secondary LME			tertiary LME		
1 - East Bering Sea			na			na		
Parameter	Value	Units	Reference points					
SSB-SEX-sex	2	sex	Parameter	Value	Units			
REC-AGE			SSBmsy-MT (SSB)	42848	MT			
SSB-AGE-yr			SSB <sub>2007</sub> /SSB <sub>msy</sub>	0.533				
TB-AGE-yr								
F-AGE-yr								
M								
A50-yr								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1989				
Maximum year	2007				
Time series minimum	22848				
Time series maximum	64198				
Units	MT				



No exploitation  
data available

No SSB–recruit  
data available

# Assessment of Bering Sea and Aleutian Islands northern rockfish (*Sebastes polypinnis*)

Assessment ID:AFSC-NROCKBSAI-1974-2009-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/255>

Area ID: USA-NMFS-BSAI

General assessment details.

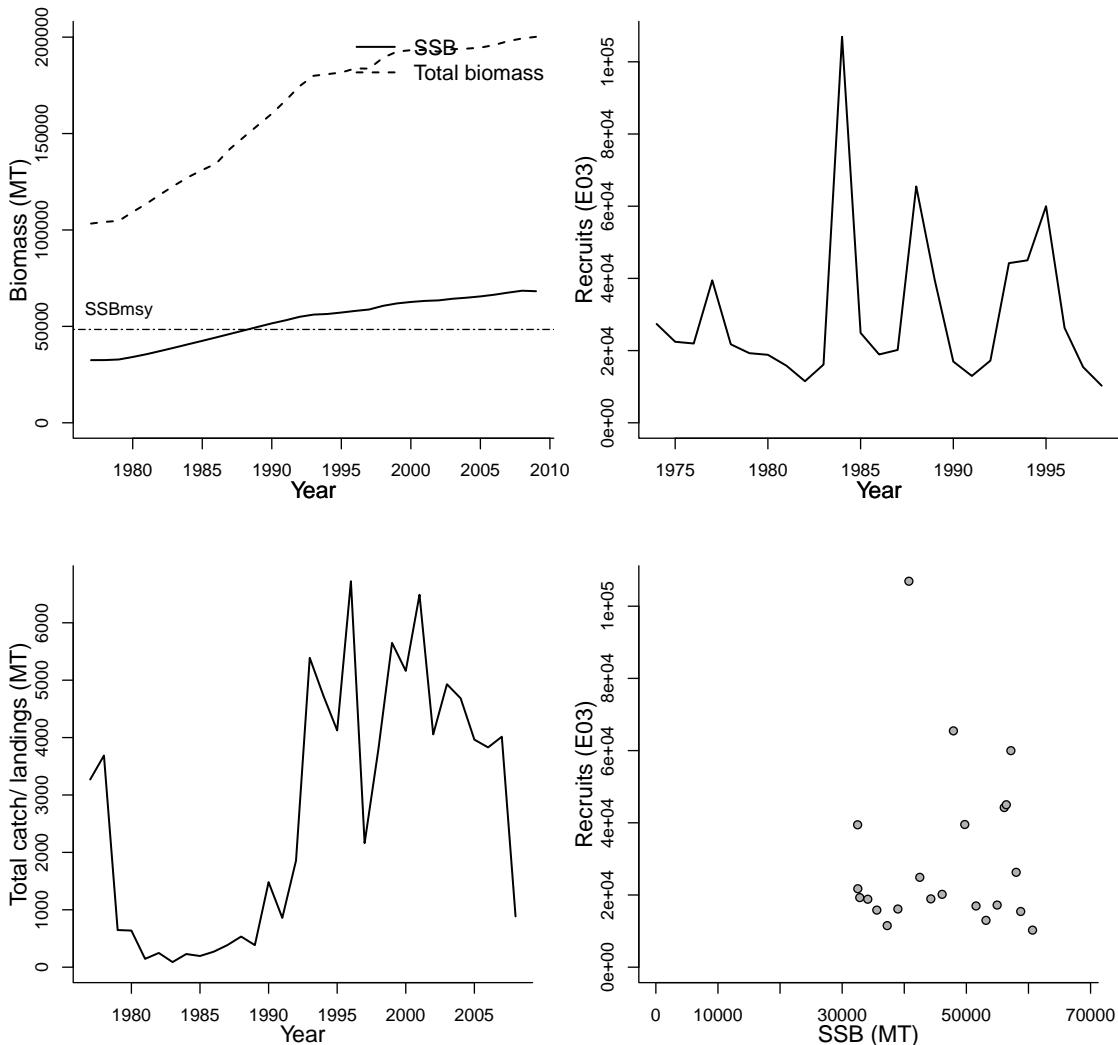
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Spencer, P.D.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1974-2009
Document	2008-SAFE_BSAInorthern.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-07
Date last loaded	2010-02-10
QA/QC complete	YES
Date approved	2010-02-10

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

primary LME			secondary LME		tertiary LME	
1 - East Bering Sea			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	3+	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.0511	1/yr	
REC-AGE-yr	3	yr	SSBmsy-MT (SSB)	48399	MT	
F-AGE-yr-yr	3+	yr-yr	$SSB_{2009}/SSB_{m sy}$	1.410		
TB-AGE-yr	3+	yr				
M-1/yr	0.041	1/yr				
M						
A50-yr						
L50-cm						

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1977	1974		1977	1977
Maximum year	2009	1998		2009	2008
Time series minimum	32488	10273		103319	89
Time series maximum	68488	106924		200179	6724
Units	MT	E03		MT	MT



# Assessment of Gulf of Alaska northern rockfish (*Sebastodes polypinus*)

Assessment ID:AFSC-NROCKGA-1959-2008-MELNYCHUK

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/282>

Area ID: USA-NMFS-GA

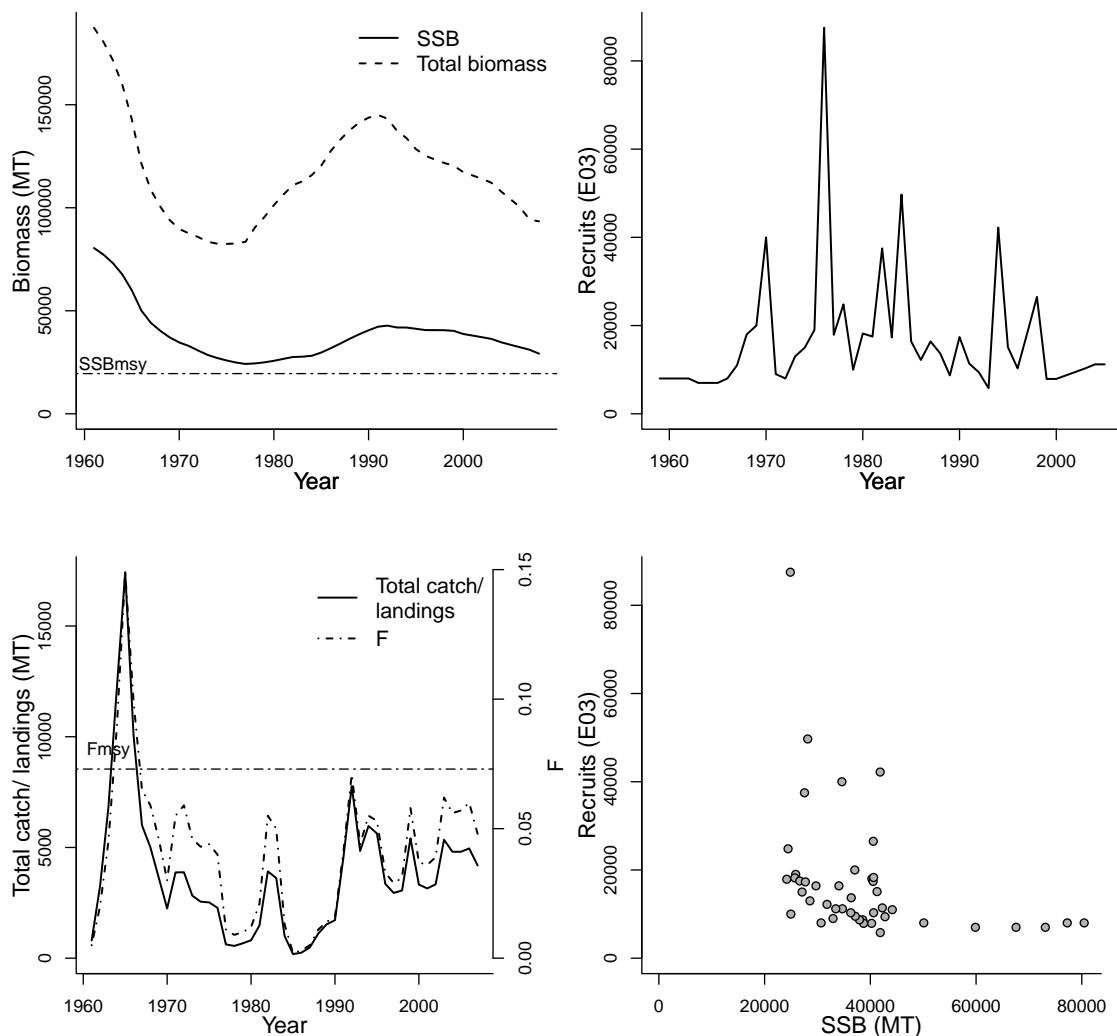
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Heifetz, J
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1959-2008
Document	AFSC-NROCKGA-2008-Northern rockfish GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-17
Date last loaded	2009-05-22
QA/QC complete	YES
Date approved	2010-07-27

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

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-SEX-sex	1	sex			
REC-AGE-yr	2	yr			
F-AGE-yr-yr	2-22+	yr-yr	Fmsy-1/yr (F)	0.073	1/yr
TB-AGE-yr	2+	yr	NATMORT-1/yr (M)	0.06	1/yr
A50-yr	13	yr	F40%-1/T	0.061	1/T
L50-cm	36.1	cm	SSBmsy-MT (SSB)	19500	MT
M-1/yr	0.06	1/yr	SSBF40%-MT	22300	MT
NATMORT-1/yr	0.06	1/yr	$F_{2007}/F_{msy}$	0.658	
SSB-AGE-yr			$SSB_{2008}/SSB_{msy}$	1.496	
M					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1961	1959	1961	1961	1961
Maximum year	2008	2005	2007	2008	2007
Time series minimum	24187	5800	0.002	82464	185
Time series maximum	80449	87500	0.149	187340	17430
Units	MT	E03	1/yr	MT	MT



# Assessment of Eastern Bering Sea and Aleutian Islands northern rock sole (*Lepidopsetta polyxystra*)

Assessment ID:AFSC-NRSOLEEBSAI-1971-2008-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/238>

Area ID: USA-NMFS-EBSAI

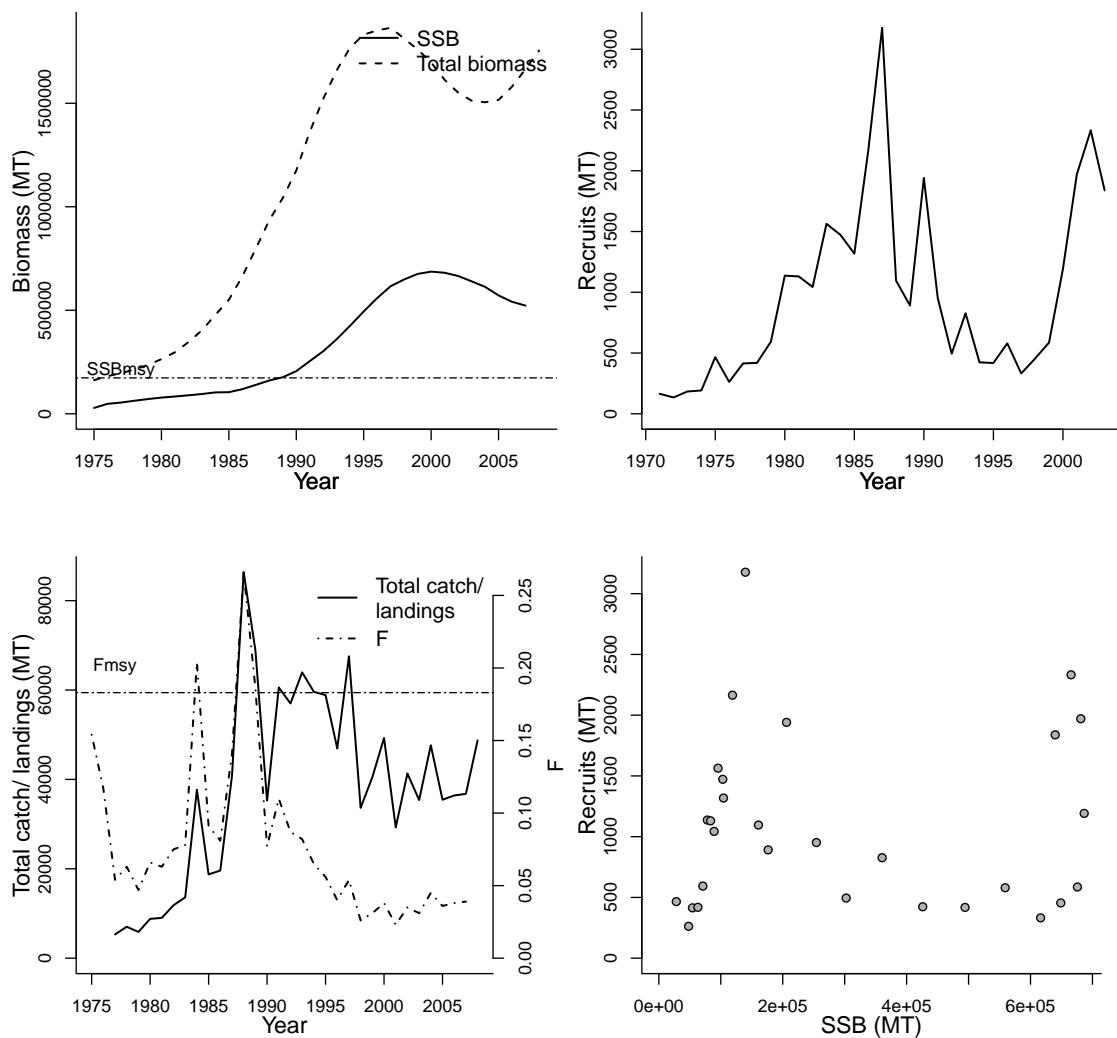
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Wliderbuer, TK
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1971-2008
Document	2008_SAFE_BSAIrocksole.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-06
Date last loaded	2010-02-10
QA/QC complete	YES
Date approved	2010-02-10

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

primary LME			secondary LME	tertiary LME	
1 - East Bering Sea			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	2+	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.183	1/yr
REC-AGE-yr	4	yr	NATMORT-1/yr (M)	1.8	1/yr
F-AGE-yr-yr	2+	yr-yr	F40%-1/T	0.149	1/T
TB-AGE-yr	2+	yr	SSBmsy-MT (SSB)	173320.00	MT
M-1/yr	1.8	1/yr	MSY-MT (TB)	300500.00	MT
NATMORT-1/yr	1.8	1/yr	NATMORT-1/yr (M)	0.15	1/yr
M-1/yr	0.15	1/yr	$F_{2007}/F_{msy}$	0.213	
NATMORT-1/yr	0.15	1/yr	$SSB_{2007}/SSB_{msy}$	3.015	
M					
A50-yr					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1975	1971	1975	1975
Maximum year	2007	2003	2007	2008
Time series minimum	28175	134.38	0.023	162245
Time series maximum	686653	3176.54	0.266	1864490
Units	MT	MT	1/yr	MT



# Assessment of Bering Sea and Aleutian Islands pacific cod (*Gadus macrocephalus*)

Assessment ID:AFSC-PCODBSAI-1964-2008-MELNYCHUK

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/268>

Area ID: USA-NMFS-BSAI

General assessment details.

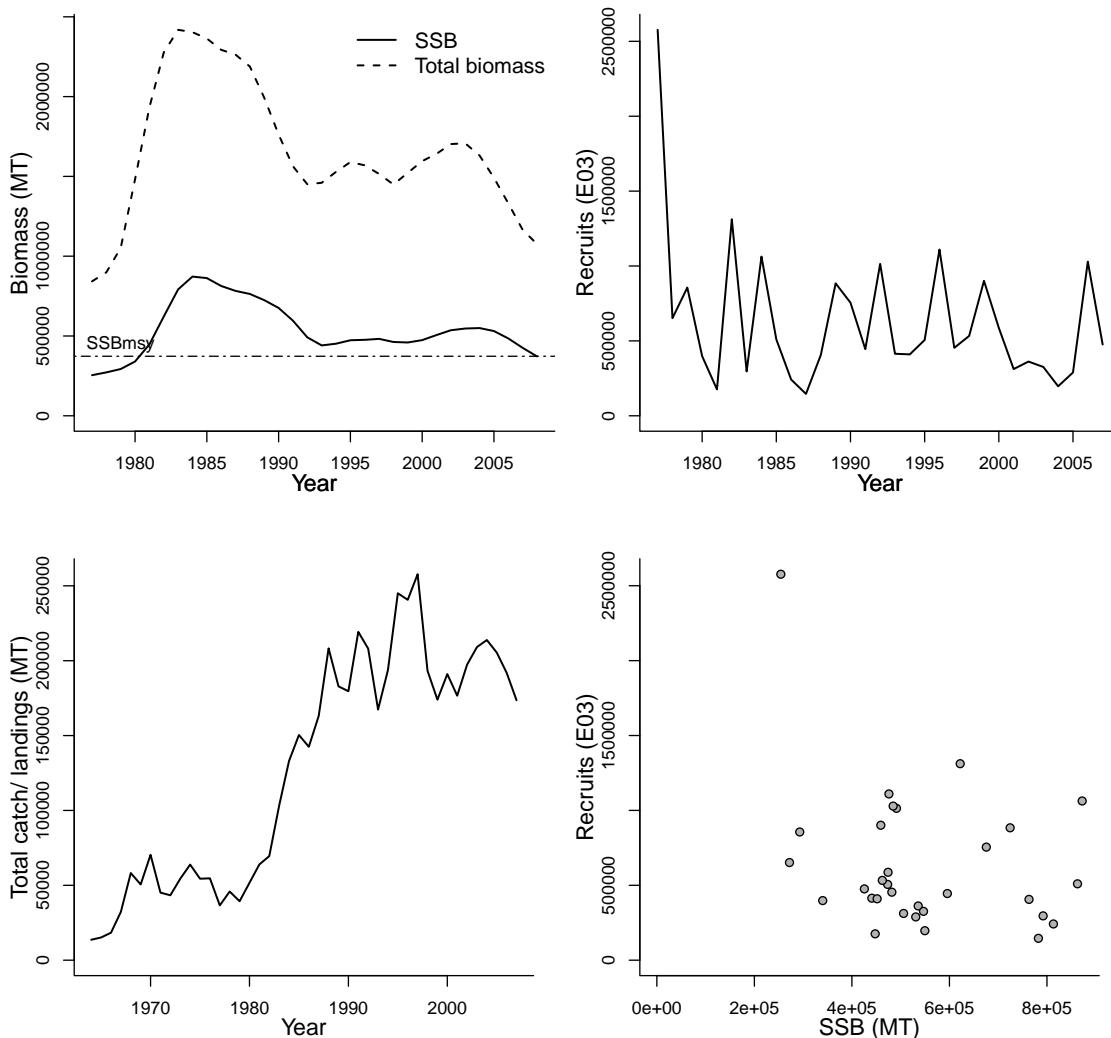
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Thompson, G.
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1964-2008
Document	AFSC-PCODBSAI-2008-Pacific-cod-BSAI.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2010-07-27
QA/QC complete	YES
Date approved	2010-07-27

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

primary LME			secondary LME	tertiary LME	
1 - East Bering Sea			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	1	sex	Parameter	Value	Units
REC-AGE-yr	0	yr	Fmsy-1/yr (F)	0.34	1/yr
F-AGE-yr-yr	0+	yr-yr	NATMORT-1/yr (M)	0.34	1/yr
TB-AGE-yr	0+	yr	F40%-1/T	0.28	1/T
A50-yr	4.9	yr	SSBmsy-MT (SSB)	373000	MT
L50-cm	58	cm	SSBF40%-MT	426000	MT
M-1/yr	0.34	1/yr	SSBO-MT (SSB)	1066000.00	MT
NATMORT-1/yr	0.34	1/yr	SSB <sub>2008</sub> /SSB <sub>msy</sub>	0.997	
SSB-AGE-yr					
M					

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1977	1977		1977	1964
Maximum year	2008	2007		2008	2007
Time series minimum	254248	146000		842241	13649
Time series maximum	872225	2577000		2418520	257762
Units	MT	E03		MT	MT



# Assessment of Gulf of Alaska pacific cod (*Gadus macrocephalus*)

Assessment ID:AFSC-PCODGA-1964-2008-MELNYCHUK

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/271>

Area ID: USA-NMFS-GA

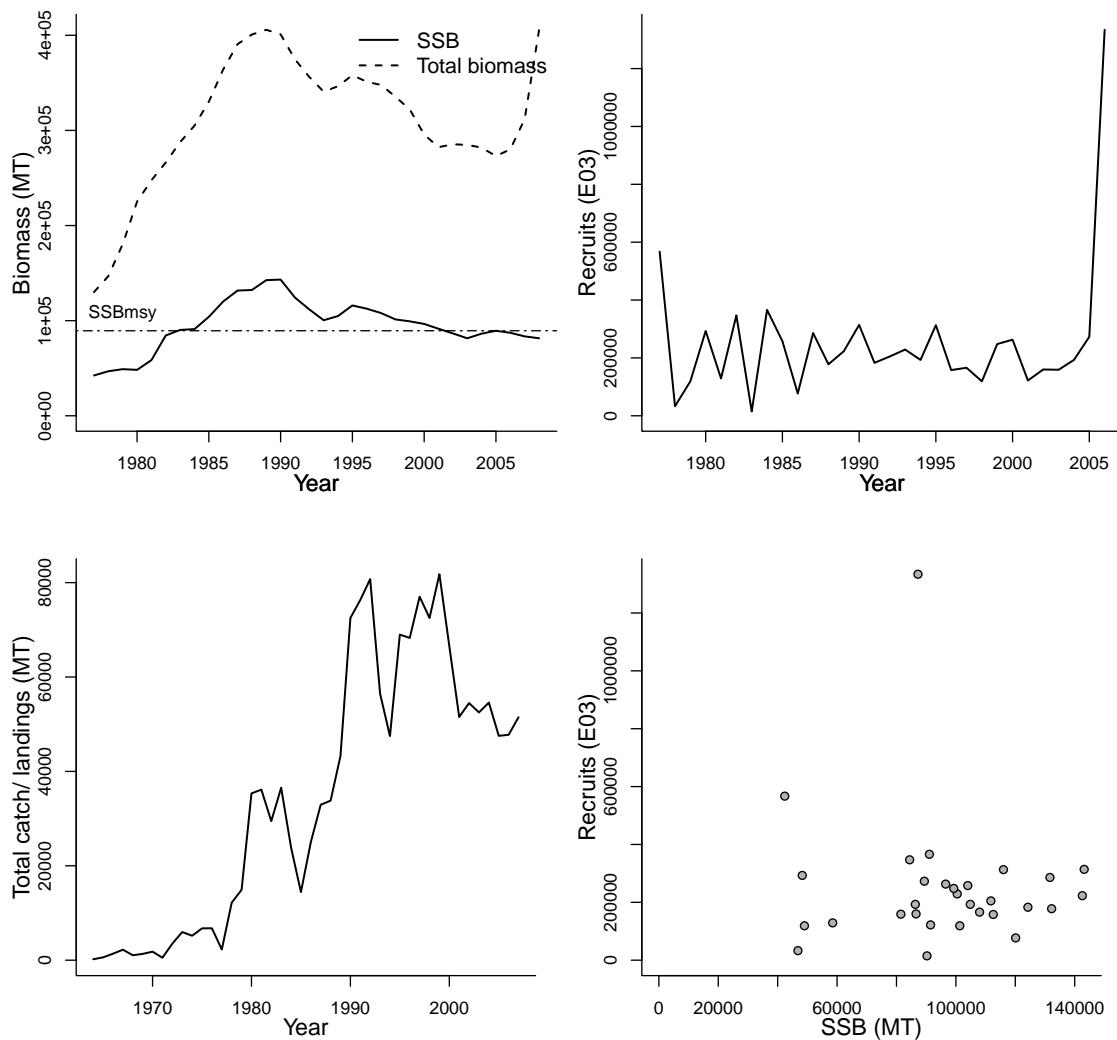
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Thompson, G.
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1964-2008
Document	AFSC-PCODGA-2008-Pacific-cod-GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-16
Date last loaded	2010-07-27
QA/QC complete	YES
Date approved	2010-07-27

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

primary LME			secondary LME		tertiary LME	
2 - Gulf of Alaska			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	4.3	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.64	1/yr	
REC-AGE-yr	0	yr	NATMORT-1/yr (M)	0.38	1/yr	
TB-AGE-yr	0+	yr	F40%-1/T	0.52	1/T	
A50-yr	4.3	yr	SSBmsy-MT (SSB)	89400	MT	
L50-cm	58	cm	SSBF40%-MT	102200	MT	
M-1/yr	0.38	1/yr	SSB <sub>2008</sub> /SSB <sub>m.sy</sub>	0.911		
NATMORT-1/yr	0.38	1/yr				
F-AGE-yr						
M						

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1977		1977	1964
Maximum year	2008	2006		2008	2007
Time series minimum	42383	15000		130021	196
Time series maximum	143190	1334000		405770	81784
Units	MT	E03		MT	MT



# Assessment of Eastern Bering Sea and Aleutian Islands pacific ocean perch (*Sebastes alutus*)

Assessment ID:AFSC-PERCHEBSAI-1974-2009-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/256>

Area ID: USA-NMFS-EBSAI

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Spencer, PD
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1974-2009
Document	2008-SAFE_BSAIpop.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-13
Date last loaded	2009-05-20
QA/QC complete	YES
Date approved	2010-02-10

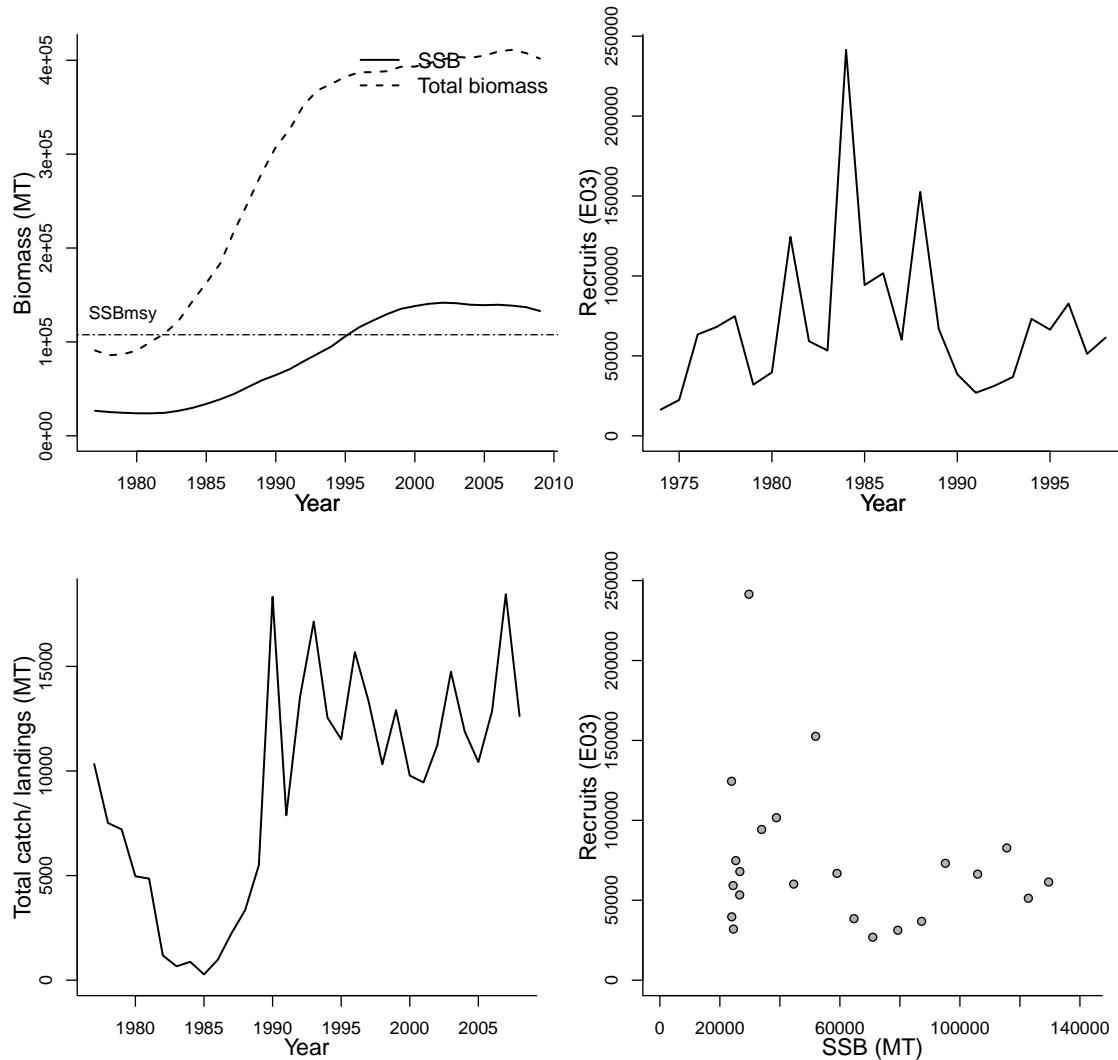
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			1 - East Bering Sea	na	na
SSB-AGE-yr	3+	yr			
SSB-SEX-sex	1	sex			
REC-AGE-yr	3	yr			
F-AGE-yr-yr	3+	yr-yr			
TB-AGE-yr	3+	yr			
M-1/yr	0.06	1/yr			
NATMORT-1/yr	0.06	1/yr			
M					
A50-yr					
L50-cm					

Parameter	Reference points	Value	Units
Fmsy-1/yr (F)	0.068	1/yr	
NATMORT-1/yr (M)	0.06	1/yr	
F40%-1/T	0.057	1/T	
SSBmsy-MT (SSB)	107627	MT	
$SSB_{2009}/SSB_{msy}$	1.235		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1977	1974		1977
Maximum year	2009	1998		2009
Time series minimum	23886	16346		85794
Time series maximum	141752	241476		411164
Units	MT	E03		MT



# Assessment of Gulf of Alaska pacific ocean perch (*Sebastes alutus*)

Assessment ID:AFSC-POPERCHGA-1959-2008-MELNYCHUK

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/289>

Area ID: USA-NMFS-GA

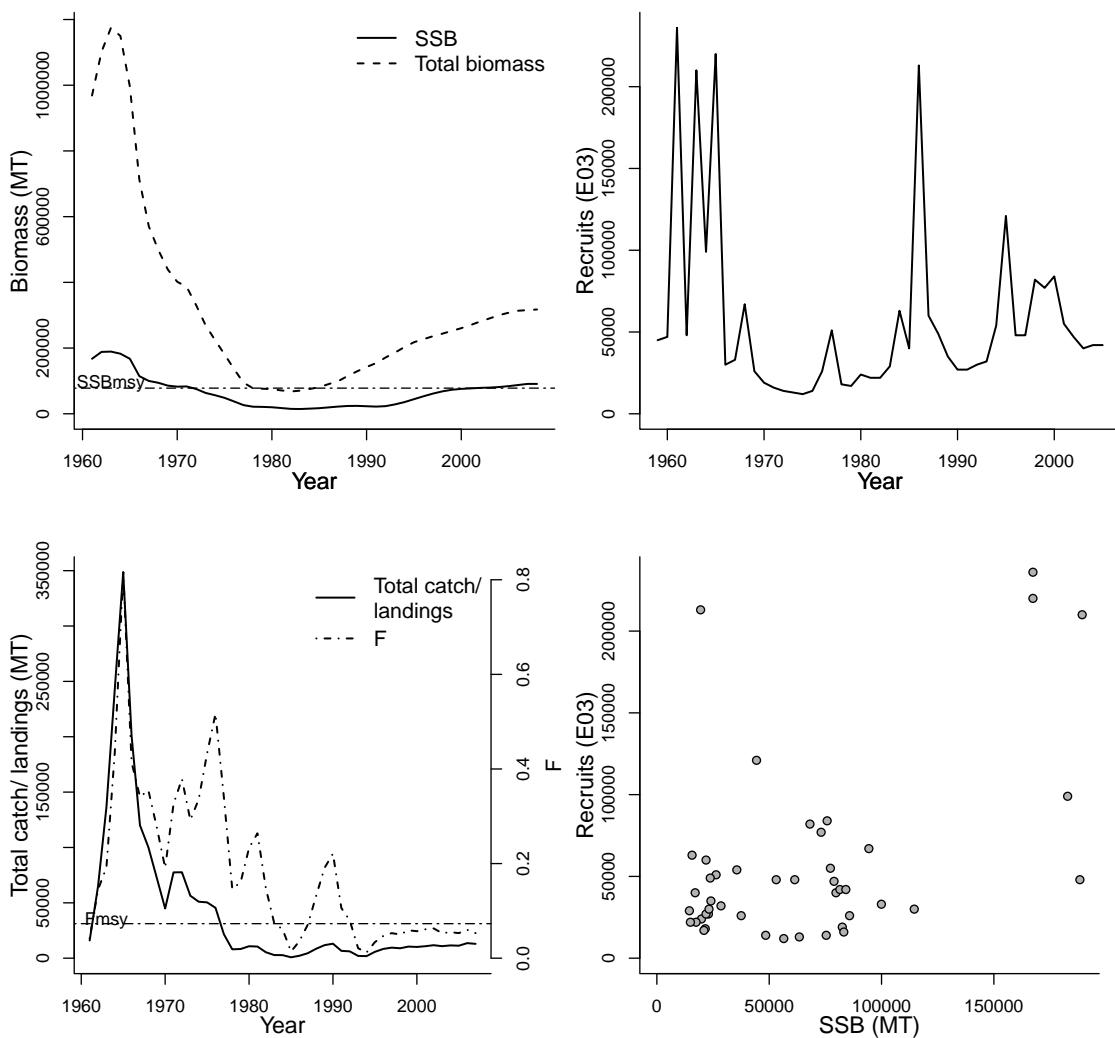
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Hanselman, D.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1959-2008
Document	AFSC-POPERCHGA-2008-Pacific ocean perch GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-17
Date last loaded	2009-05-26
QA/QC complete	YES
Date approved	2010-07-27

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

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-AGE-yr	10.5	yr	Fmsy-1/yr (F)	0.073	1/yr
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.06	1/yr
REC-AGE-yr	2	yr	F40%-1/T	0.061	1/T
TB-AGE-yr	2+	yr	SSBmsy-MT (SSB)	78045	MT
A50-yr	10.5	yr	SSBF40%-MT	89195	MT
M-1/yr	0.06	1/yr	$F_{2007}/F_{msy}$	0.726	
NATMORT-1/yr	0.06	1/yr	$SSB_{2008}/SSB_{msy}$	1.165	
F-AGE-yr					
M					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1961	1959	1961	1961
Maximum year	2008	2005	2007	2008
Time series minimum	14473	12000	0.012	68002
Time series maximum	189300	236000	0.816	1174760
Units	MT	E03	1/yr	MT



# Assessment of Gulf of Alaska pacific ocean perch (*Sebastes alutus*)

Assessment ID:AFSC-POPERCHGA-1959-2010-Stachura  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/289>

Area ID: USA-NMFS-GA

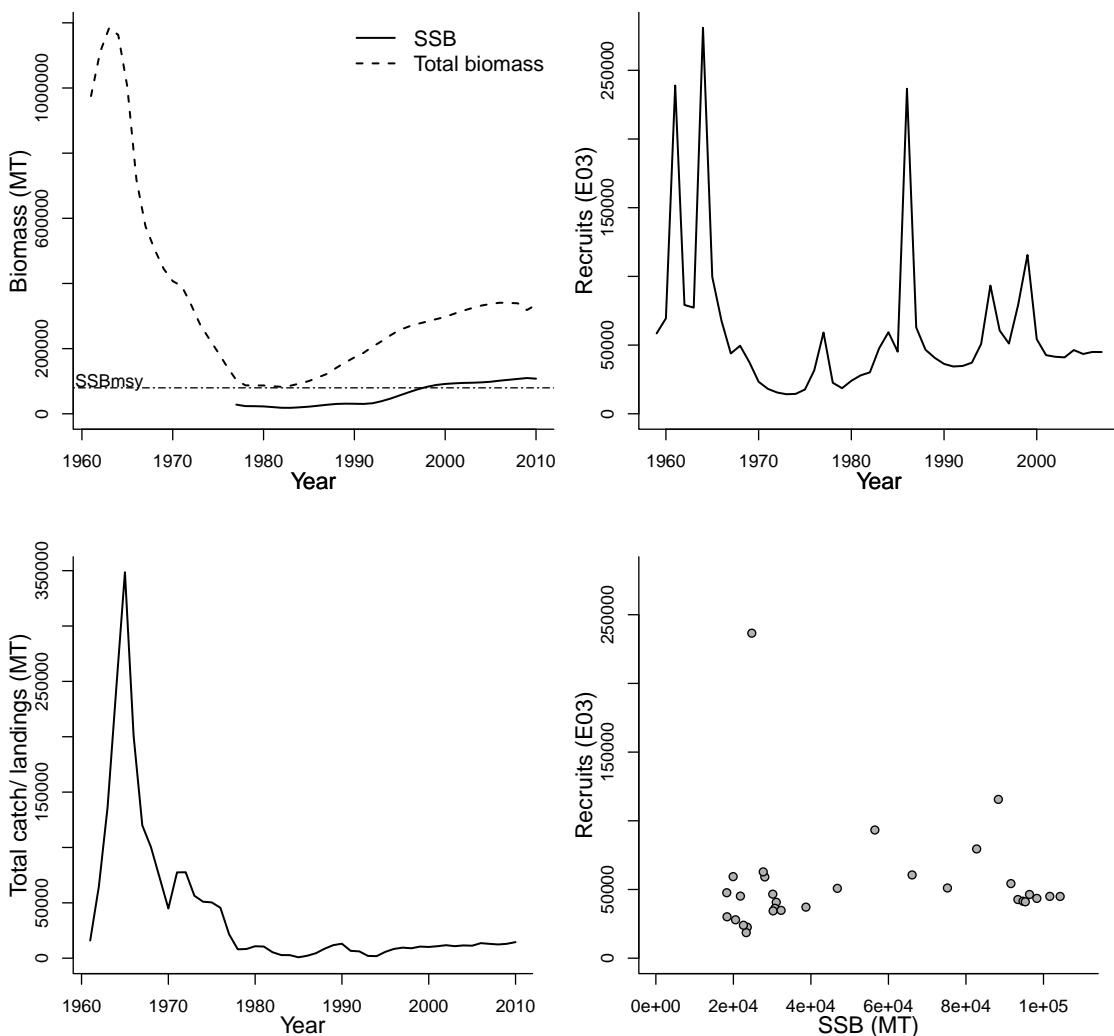
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Hanselman, D.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2010
Timeseries span	1959-2010
Document	AFSC-POPERCHGA-2010.pdf (pdf in database)
Recorder	Stachura
Date entered	2011-03-29
Date last loaded	2011-05-03
QA/QC complete	NO
Date approved	

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

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-AGE-yr	10.5	yr	Fmsy-1/yr (F)	0.142	1/yr
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.06	1/yr
REC-AGE-yr	2	yr	F40%-1/T	0.123	1/T
A50-yr	10.5	yr	SSBmsy-MT (SSB)	79664	MT
L50-cm	35.7	cm	MSY-MT (TB)	20243	MT
M-1/T	0.06	1/T	SSBF40%-MT	91044	MT
NATMORT-1/yr	0.06	1/yr	$SSB_{2010}/SSB_{msy}$	1.353	
TB-AGE-yr					
F-AGE-yr					
M					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1977	1959		1961
Maximum year	2010	2007		2010
Time series minimum	18289	14230		82706.7
Time series maximum	109724	280940		1184740
Units	MT	E03	MT	MT



# Assessment of Gulf of Alaska rex sole (*Glyptocephalus zachirus*)

Assessment ID:AFSC-REXSOLEGA-1979-2008-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/279>

Area ID: USA-NMFS-GA

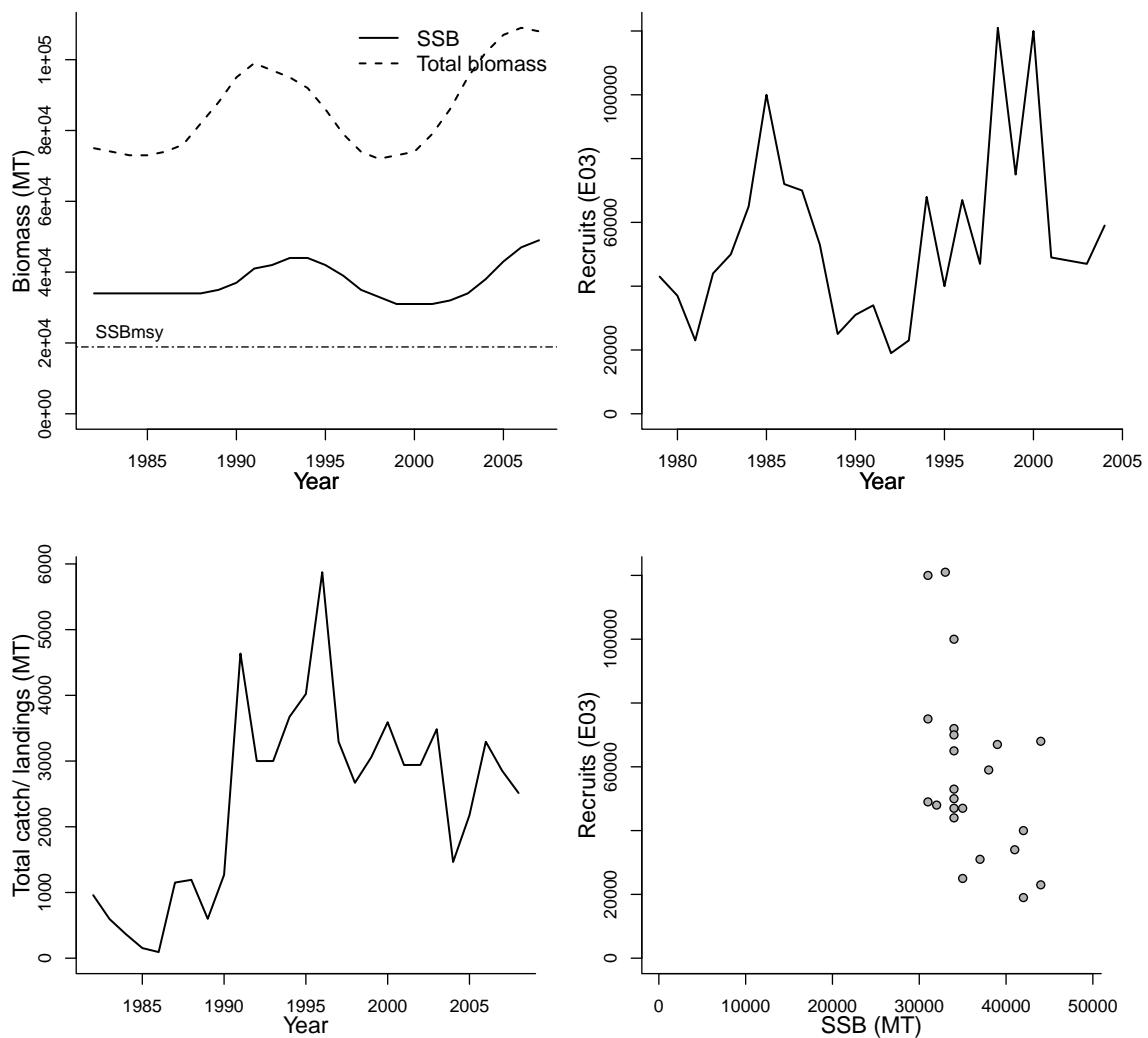
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Stockhausen, W.T.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1979-2008
Document	ref2008-SAFE-GOArex.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-04-20
Date last loaded	2010-07-27
QA/QC complete	YES
Date approved	2010-07-27

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

primary LME			secondary LME			tertiary LME		
2 - Gulf of Alaska			na			na		
Parameter	Value	Units	Reference points					
			Parameter		Value		Units	
SSB-AGE-yr	3+	yr						
SSB-SEX-sex	1	sex						
REC-AGE-yr	3	yr						
TB-AGE-yr	3+	yr	Fmsy-1/yr (F)		10.23		1/yr	
M-1/yr	0.17	1/yr	NATMORT-1/yr (M)		0.17		1/yr	
NATMORT-1/yr	0.17	1/yr	F40%-1/T		4.78		1/T	
F-AGE-yr			SSBmsy-MT (SSB)		18877		MT	
M			SSB <sub>2007</sub> /SSB <sub>m sy</sub>		2.596			
A50-yr								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1982	1979		1982
Maximum year	2007	2004		2007
Time series minimum	31000	19000		72000
Time series maximum	49000	121000		109000
Units	MT	E03		MT



# Assessment of Bering Sea and Aleutian Islands rougheye rockfish (*Sebastodes aleutianus*)

Assessment ID:AFSC-REYEROCKBSAI-1974-2009-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/234>

Area ID: USA-NMFS-BSAI

## General assessment details.

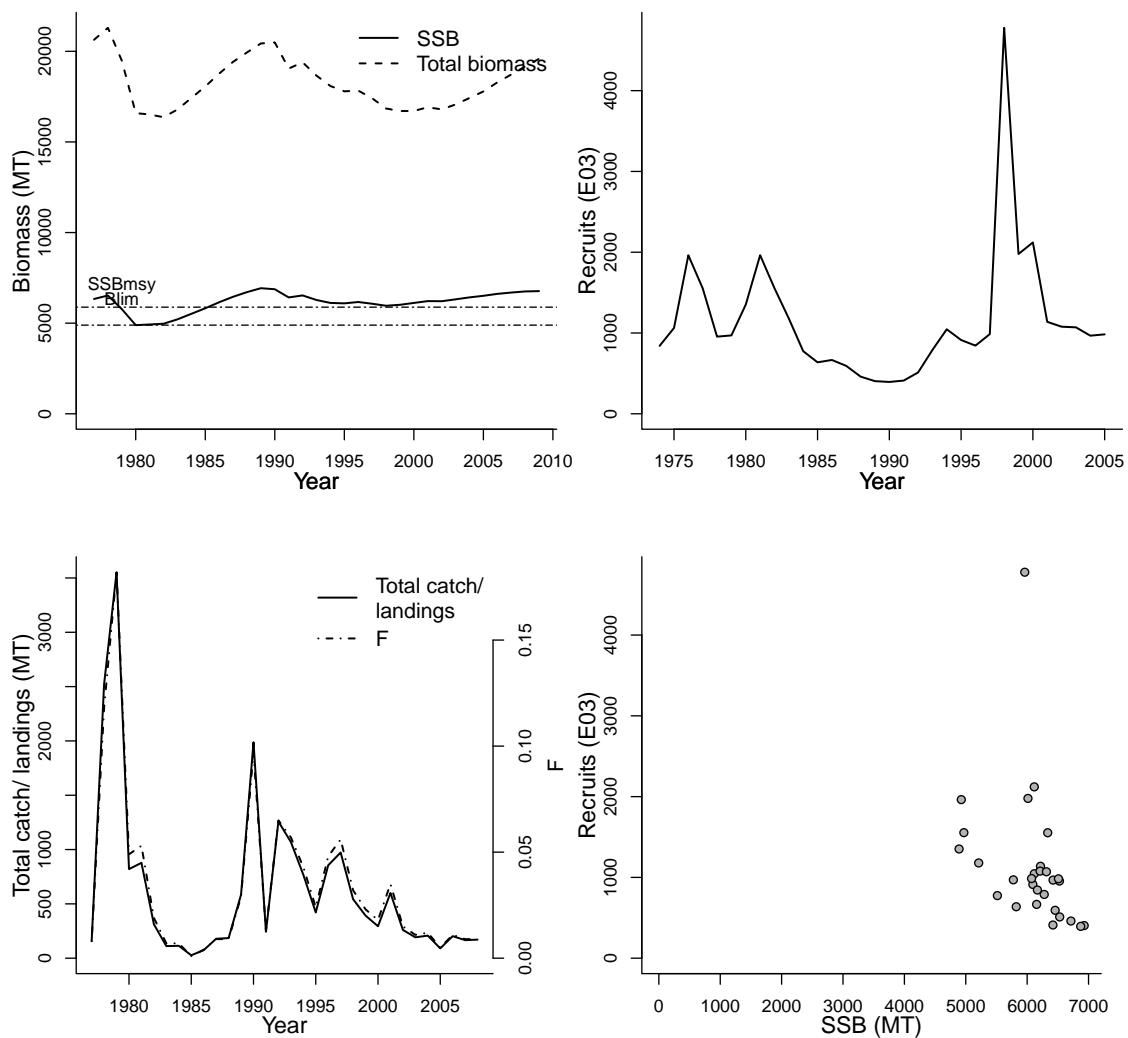
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Spencer PD
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1974-2009
Document	2008 SAFE BSAIrougheye.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-03-31
Date last loaded	2010-02-10
QA/QC complete	YES
Date approved	2010-02-10

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

primary LME			secondary LME		tertiary LME
1 - East Bering Sea			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	3	yr	Parameter	Value	Units
SSB-SEX-sex	0	sex	Blim-MT (TB)	4891	MT
REC-AGE-yr	3	yr	SSBmsy-MT (SSB)	5883	MT
F-AGE-yr-yr	3+	yr-yr	SSB0-MT (SSB)	16808	MT
TB-AGE-yr	3+	yr	$SSB_{2009}/SSB_{msy}$	1.151	
A50-yr	19	yr			
M					
L50-cm					

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1977	1974	1977	1977	1977
Maximum year	2009	2005	2008	2009	2008
Time series minimum	4891	394	0.001	16364	27
Time series maximum	6929	4778	0.182	21297	3553
Units	MT	E03	1/yr	MT	MT



# Assessment of Gulf of Alaska rougheye rockfish (*Sebastodes aleutianus*)

Assessment ID:AFSC-REYEROCKGA-1974-2007-MELNYCHUK

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/290>

Area ID: USA-NMFS-GA

## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Shotwell, S. Kalei
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1974-2007
Document	AFSC-RYEROCKGA-2008-Rougheye rockfish GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-23
Date last loaded	2009-05-22
QA/QC complete	YES
Date approved	2010-07-27

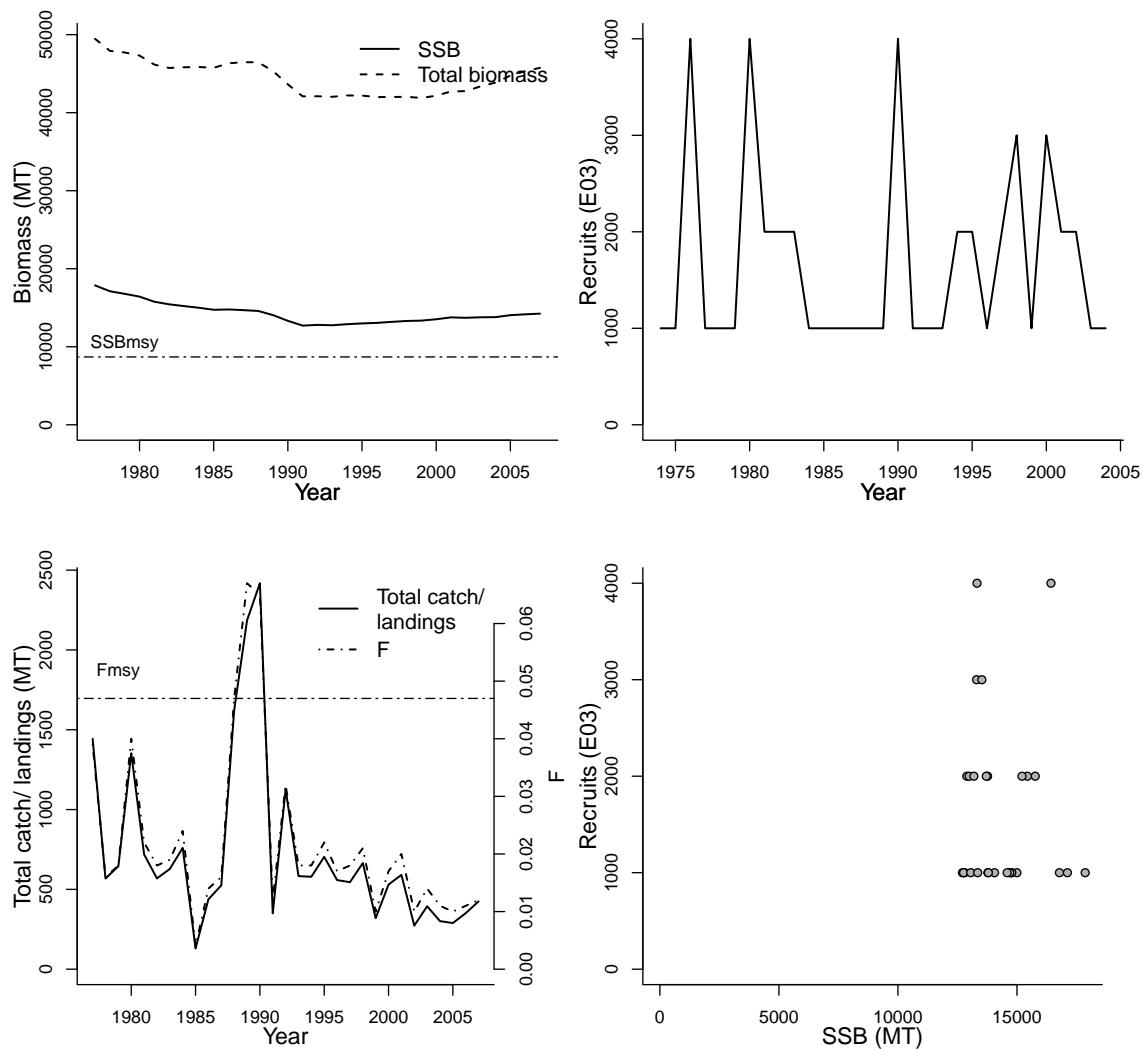
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			2 - Gulf of Alaska	na	na
REC-AGE-yr	3	yr			
TB-AGE-yr	3+	yr			
A50-yr	19	yr			
L50-cm	43.9	cm			
M-1/yr	0.034	1/yr			
NATMORT-1/yr	0.034	1/yr			
SSB-AGE-yr	19	yr			
SSB-SEX-sex	1	sex			
F-AGE-yr					
M					

Parameter	Reference points	Value	Units
REC-AGE-yr	Fmsy-1/T (F)	0.047	1/T
TB-AGE-yr	NATMORT-1/yr (M)	0.034	1/yr
A50-yr	F40%-1/T	0.039	1/T
L50-cm	SSBmsy-MT (SSB)	8694	MT
M-1/yr	SSBF40%-MT	9935	MT
NATMORT-1/yr	$F_{2007}/F_{msy}$	0.255	
SSB-AGE-yr	$SSB_{2007}/SSB_{msy}$	1.638	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1977	1974	1977	1977
Maximum year	2007	2004	2007	2007
Time series minimum	12709	1000	0.004	41889
Time series maximum	17865	4000	0.067	49471
Units	MT	E03	1/yr	MT



# Assessment of Bristol Bay red king crab (*Paralithodes camtschaticus*)

Assessment ID:AFSC-RKCRABB-1960-2008-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/258>

Area ID: USA-NMFS-BB

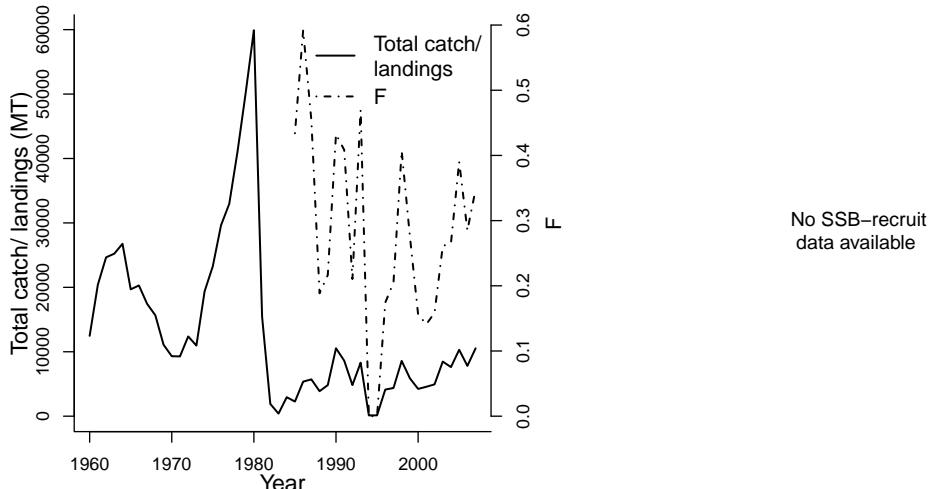
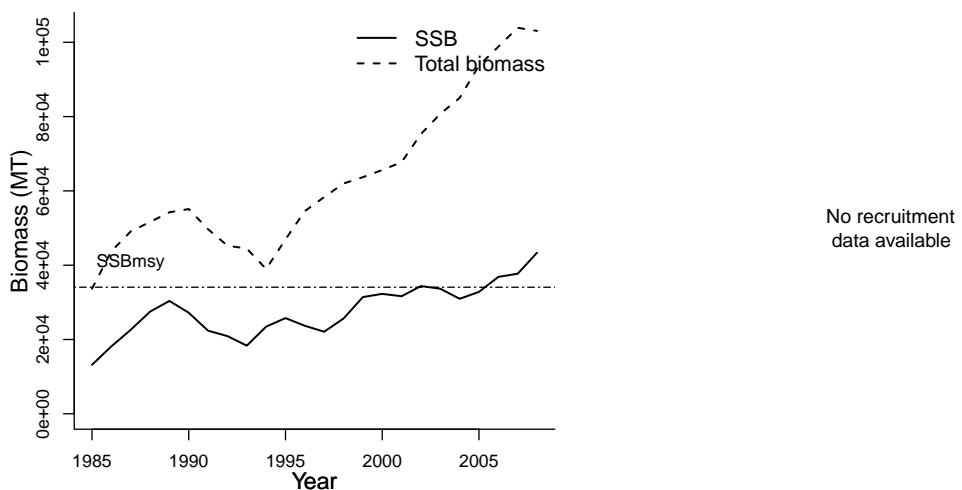
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Length-based analysis
Publication year	2008
Timeseries span	1960-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2009-06-12

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

	primary LME	secondary LME	tertiary LME	
1 - East Bering Sea	na	na		
Parameter	Value	Units	Reference points	
REC-AGE			Parameter	Value
SSB-AGE-yr				ratio
SSB-SEX-sex			Umsy-ratio (U)	0.33
TB-AGE-yr			SSBmsy-MT (SSB)	34070
F-AGE-yr			$SSB_{2008}/SSB_{msy}$	MT
M				1.273
A50-yr				
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1985		1985	1985
Maximum year	2008		2007	2008
Time series minimum	13182.29		0	33675.58
Time series maximum	43356.14		0.5921	103900.69
Units	MT		ratio	MT



# Assessment of Norton Sound red king crab (*Paralithodes camtschaticus*)

Assessment ID:AFSC-RKCRABNS-1976-2008-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/263>

Area ID: USA-NMFS-NS

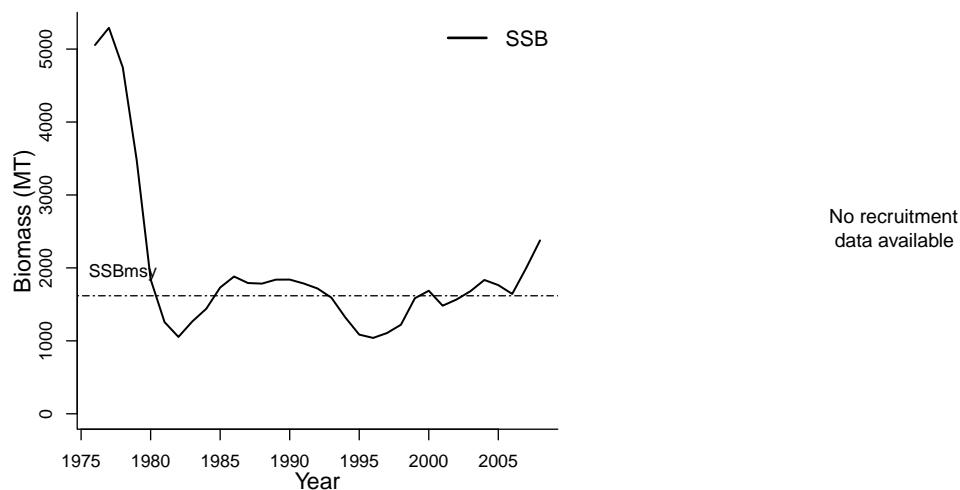
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Length-based analysis
Publication year	2008
Timeseries span	1976-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2010-07-28

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

	primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na	na
<hr/>			
Parameter	Value	Units	
SSB-SEX-sex	2	sex	<hr/>
REC-AGE			Reference points
SSB-AGE-yr			Parameter
TB-AGE-yr			Value
F-AGE-yr			Units
M			<hr/>
A50-yr			SSB <sub>m</sub> s <sub>y</sub> -MT (SSB)
L50-cm			1617.96 MT
			SSB <sub>2008</sub> /SSB <sub>m</sub> s <sub>y</sub> 1.469

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1976				
Maximum year	2008				
Time series minimum	1039.95				
Time series maximum	5291.83				
Units	MT				



# Assessment of Pribilof Islands red king crab (*Paralithodes camtschaticus*)

Assessment ID:AFSC-RKCRABPI-1981-2009-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/260>

Area ID: USA-NMFS-PI

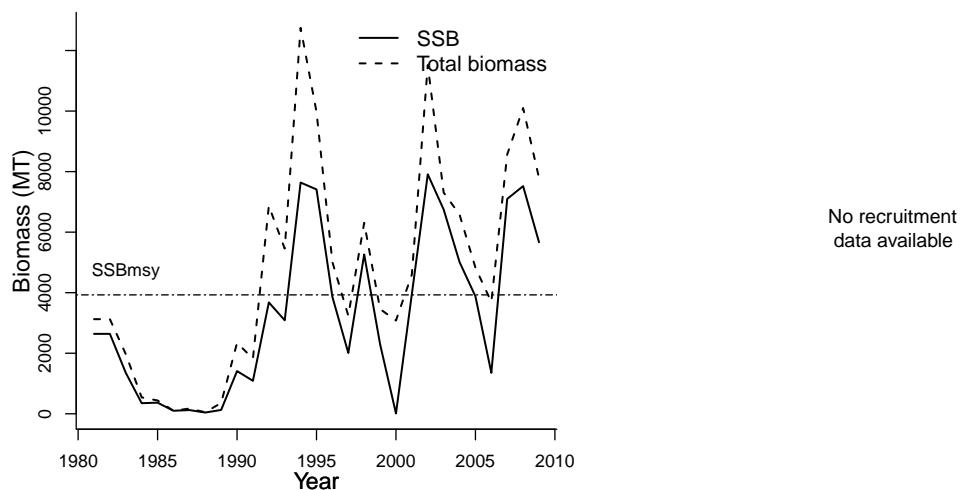
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1981-2009
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2009-06-12

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

primary LME			secondary LME		tertiary LME			
1 - East Bering Sea			na		na			
Parameter	Value	Units						
SSB-SEX-sex	2	sex						
REC-AGE			Reference points					
SSB-AGE-yr			Parameter	Value	Units			
TB-AGE-yr			SSB <sub>msy</sub> -MT (SSB)	3928.11	MT			
F-AGE-yr			SSB <sub>2009</sub> /SSB <sub>msy</sub>	1.442				
M								
A50-yr								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1981			1981
Maximum year	2009			2009
Time series minimum	9.07			49.9
Time series maximum	7910.64			12750.47
Units	MT			MT



# Assessment of Eastern Bering Sea / Aleutian Islands / Gulf of Alaska sablefish (*Anoplopoma fimbria*)

Assessment ID:AFSC-SABLEFEBSAIGA-1956-2008-MELNYCHUK  
 Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/266>

Area ID: USA-NMFS-EBSAIGA

General assessment details.

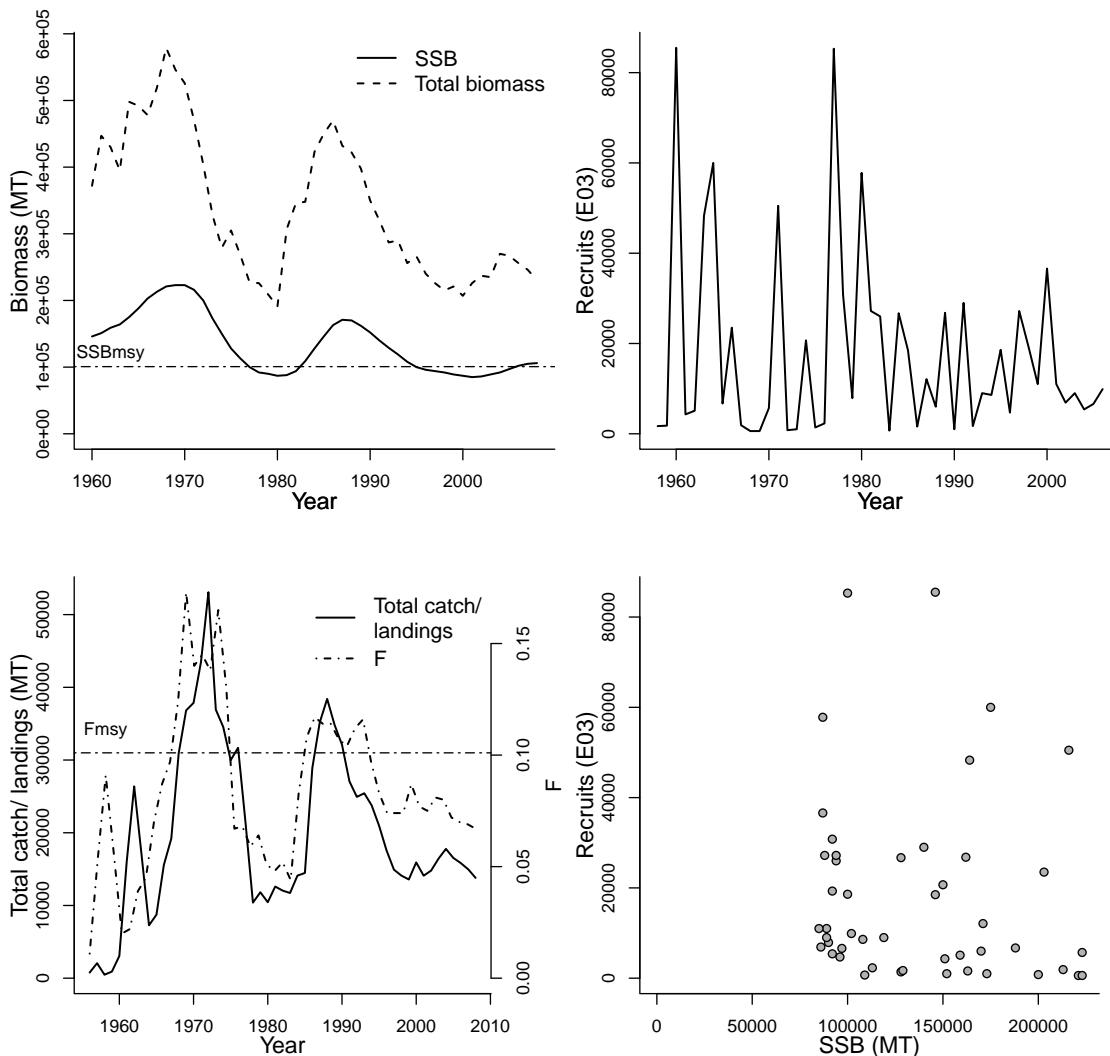
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Hanselman, D.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1956-2008
Document	AFSC-SABLEFEBSAIGA-2008-Sablefish-EBS-AI-GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2010-07-21
QA/QC complete	YES
Date approved	2010-05-10

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

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
1 - East Bering Sea	1 - East Bering Sea		Fmsy-1/yr (F)	0.101	1/yr
2 - Gulf of Alaska	2 - Gulf of Alaska		NATMORT-1/yr (M)	0.1	1/yr
na	na		F40%-1/T	0.085	1/T
A50-yr	6.5	yr	MSY-MT (TB)	19000	MT
L50-cm	65	cm	SSBmsy-MT (SSB)	100730	MT
M-1/yr	0.1	1/yr	SSB0-MT (SSB)	287800	MT
NATMORT-1/yr	0.1	1/yr	SSBF40%-MT	115120	MT
SSB-AGE-yr	6.5	yr	$F_{2008}/F_{m_{sy}}$	0.663	
SSB-SEX-sex	1	sex	$SSB_{2008}/SSB_{m_{sy}}$	1.052	
REC-AGE-yr	2	yr			
TB-AGE-yr	4+	yr			
F-AGE-yr					
M					

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1960	1958	1960	1960	1956
Maximum year	2008	2006	2008	2008	2008
Time series minimum	85000	600	0.011	191000	477
Time series maximum	223000	85500	0.173	579000	53080
Units	MT	E03	1/yr	MT	MT



# Assessment of Bering Sea snow crab (*Chionoecetes opilio*)

Assessment ID:AFSC-SNOWCRABBS-1979-2008-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/257>

Area ID: USA-NMFS-BS

## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Size-structured population dynamics model
Publication year	2008
Timeseries span	1979-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2010-07-28

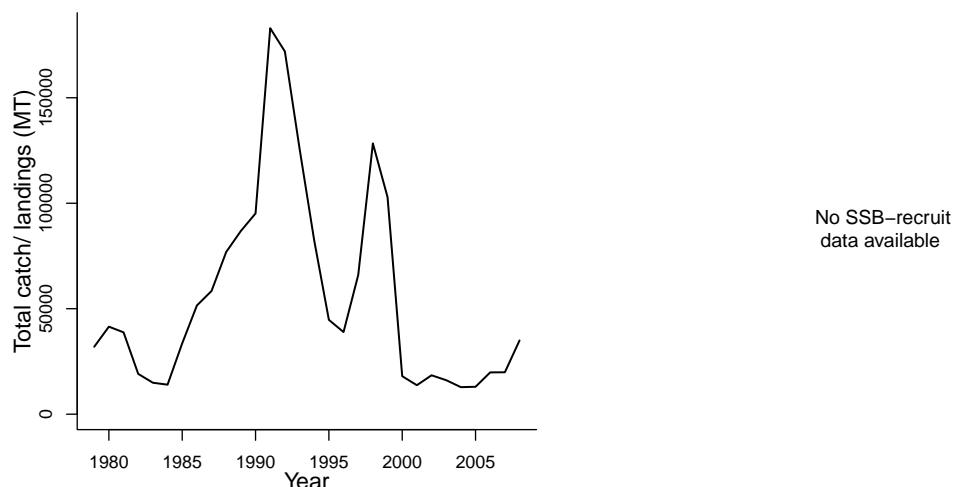
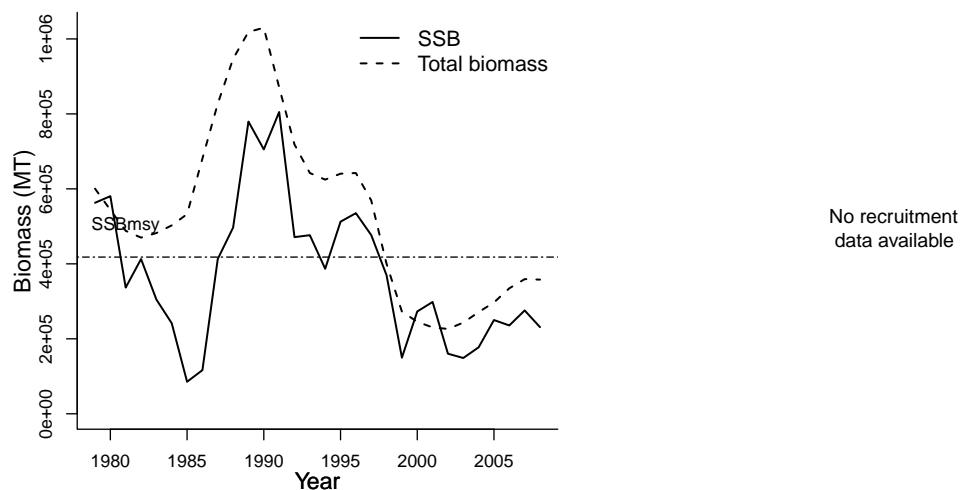
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
SSB <sub>m</sub> sy-MT (SSB)	418030.728	MT
SSB <sub>2008</sub> /SSB <sub>m</sub> sy	0.553	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1979			1979
Maximum year	2008			2008
Time series minimum	85456.8			226342.59
Time series maximum	805035.74			1029654.68
Units	MT			MT



# Assessment of Bering Sea and Aleutian Islands shortraker rockfish (*Sebastes borealis*)

Assessment ID:AFSC-SRAKEROCKBSAI-1977-2008-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/236>

Area ID: USA-NMFS-BSAI

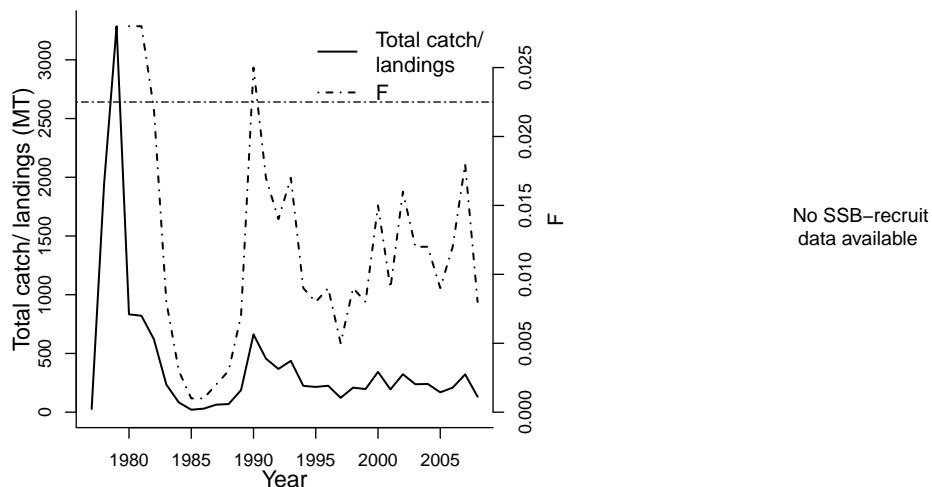
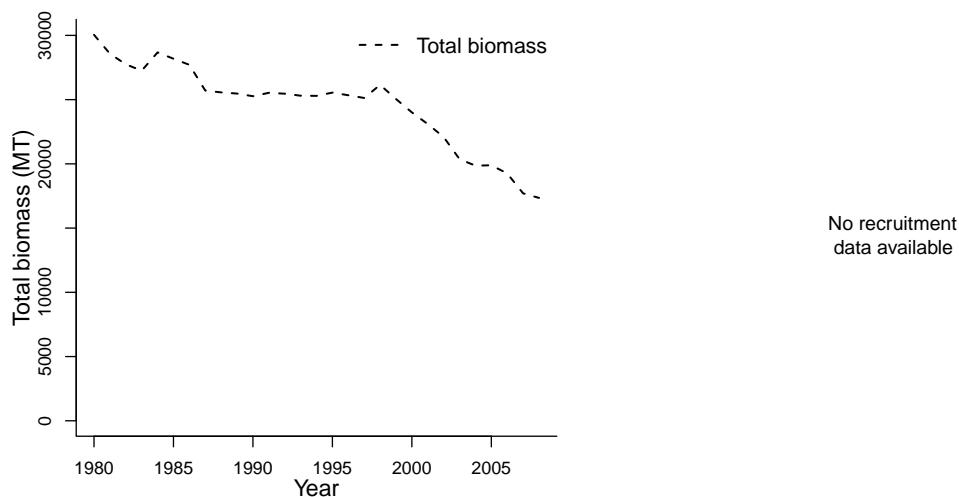
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Spencer PD
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1977-2008
Document	2008_SAFE_BSAIshortraker.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-04-01
Date last loaded	2009-05-14
QA/QC complete	YES
Date approved	2010-02-10

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

primary LME			secondary LME			tertiary LME		
1 - East Bering Sea			na			na		
Parameter	Value	Units	Reference points					
SSB-SEX-sex	1	sex	Parameter	Value	Units			
TB-AGE-yr	0+	yr	SSBmsy-MT (SSB)	139188	MT			
M-1/yr	0.03	1/yr	Flim-1/yr (F)	0.03	1/yr			
REC-AGE			Fmsy-1/yr (F)	0.0225	1/yr			
SSB-AGE-yr			Fpa-1/yr (F)	0.0225	1/yr			
F-AGE-yr			$F_{2008}/F_{lim}$	0.267				
M			$F_{2008}/F_{msy}$	0.356				
A50-yr								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year			1980	1980	1977
Maximum year			2008	2008	2008
Time series minimum			0.001	17348	21
Time series maximum			0.028	30045	3286
Units			1/yr	MT	MT



# Assessment of Bering Sea and Aleutian Islands tanner crab (*Chionoecetes bairdi*)

Assessment ID:AFSC-TANNERCRABBSAI-1965-2008-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/259>

Area ID: USA-NMFS-BSAI

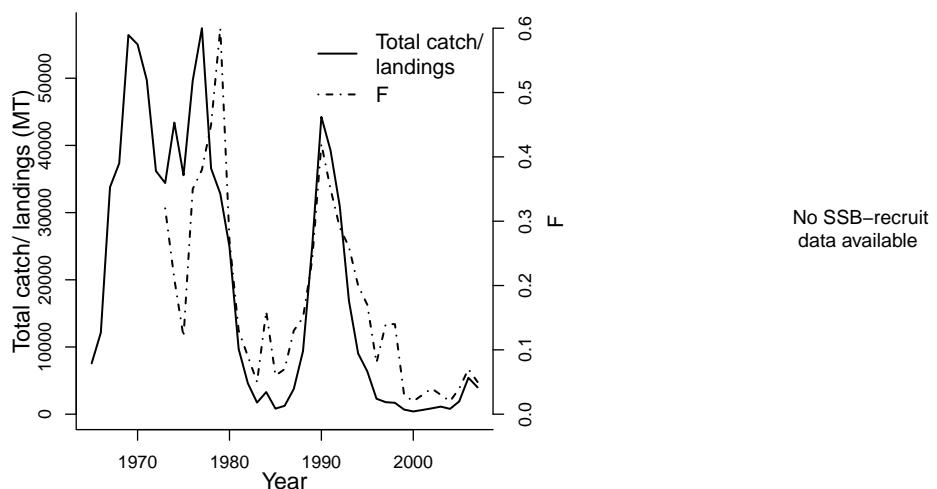
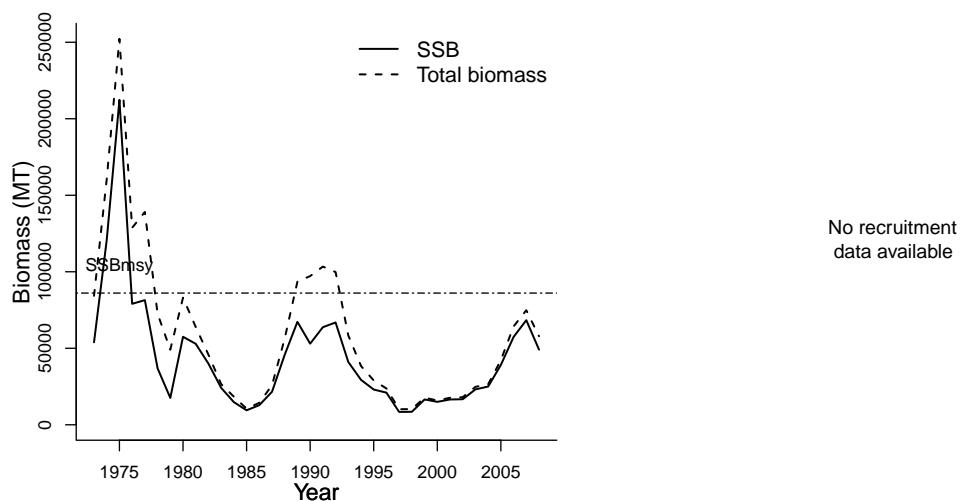
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1965-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-14
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2009-06-12

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

primary LME			secondary LME		tertiary LME			
1 - East Bering Sea			na		na			
Parameter	Value	Units						
SSB-SEX-sex	2	sex						
REC-AGE				Reference points				
SSB-AGE-yr				Parameter	Value	Units		
TB-AGE-yr				SSB <sub>m</sub> sy-MT (SSB)	86073.62	MT		
F-AGE-yr				SSB <sub>2008</sub> /SSB <sub>m</sub> sy	0.571			
M								
A50-yr								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1973		1973	1973
Maximum year	2008		2007	2008
Time series minimum	8391.45		0.02	10160.46
Time series maximum	212353.63		0.6	252247.05
Units	MT		ratio	MT
				MT



# Assessment of Aleutian Islands walleye pollock

## *(Theragra chalcogramma)*

Assessment ID:AFSC-WPOLLAI-1976-2008-MELNYCHUK

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/284>

Area ID: USA-NMFS-AI

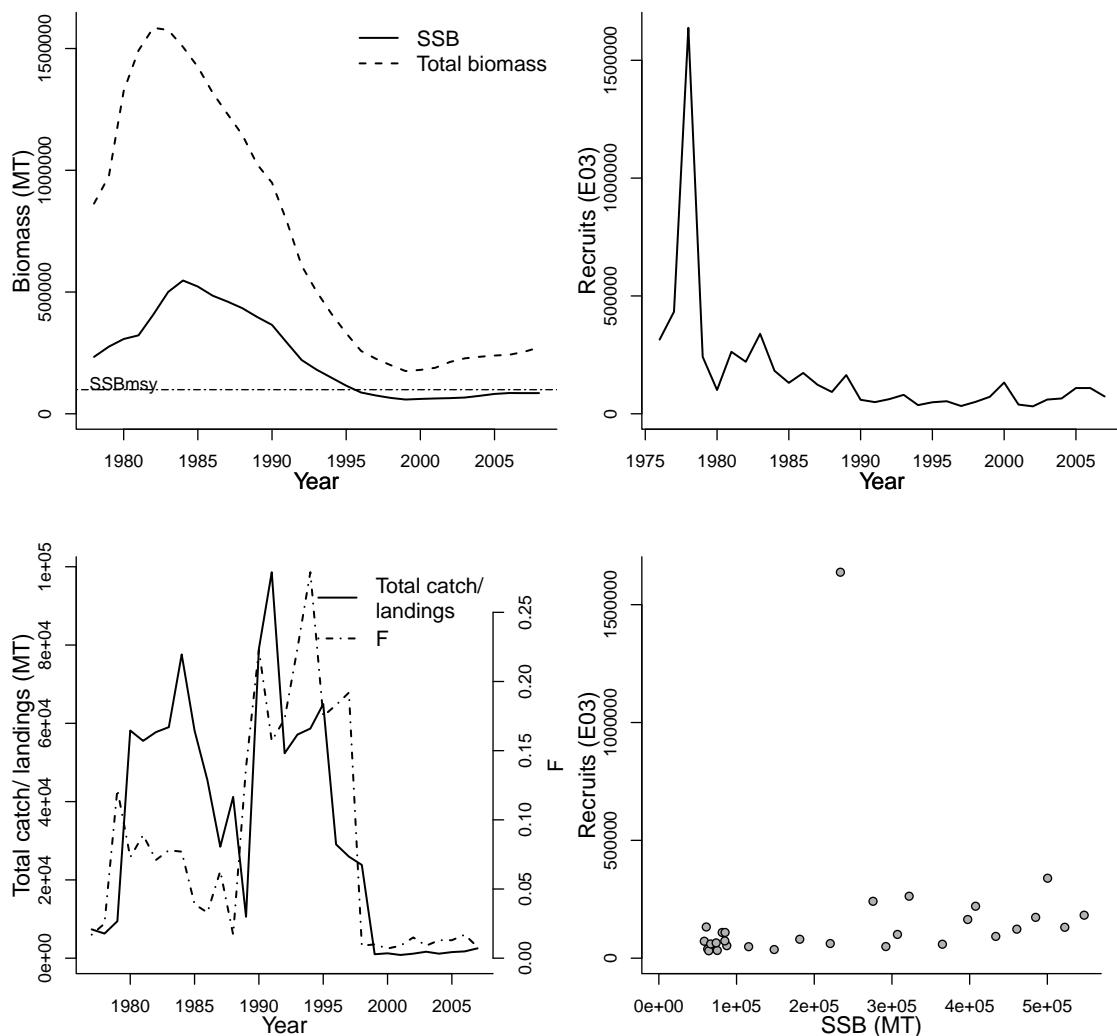
### General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Barbeaux, S.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1976-2008
Document	AFSC-WPOLLAI-2008-Walleye pollock AI.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-16
Date last loaded	2010-12-02
QA/QC complete	YES
Date approved	2010-07-27

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

primary LME			secondary LME		tertiary LME	
1 - East Bering Sea			na		na	
Parameter	Value	Units	Reference points			
			Parameter	Value	Units	
SSB-AGE-yr	4.5	yr	Fmsy-1/yr (F)	0.357	1/yr	
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.215	1/yr	
REC-AGE-yr	2	yr	F40%-1/T	0.288	1/T	
F-AGE-yr-yr	2-15+	yr-yr	SSBmsy-MT (SSB)	98987	MT	
TB-AGE-yr	2+	yr	SSBF40%-MT	113128	MT	
A50-yr	4.5	yr	$F_{2008}/F_{msy}$	0.022		
M-1/yr	0.215	1/yr	$SSB_{2008}/SSB_{msy}$	0.858		
NATMORT-1/yr	0.215	1/yr				
M						
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1976	1978	1978
Maximum year	2008	2007	2008	2008
Time series minimum	58489	31500	0.007	175420
Time series maximum	547400	1637800	0.279	1585100
Units	MT	E03	1/yr	MT



# Assessment of Eastern Bering Sea walleye pollock (*Theragra chalcogramma*)

Assessment ID:AFSC-WPOLLEBS-1963-2008-MELNYCHUK  
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/267>

Area ID: USA-NMFS-EBS

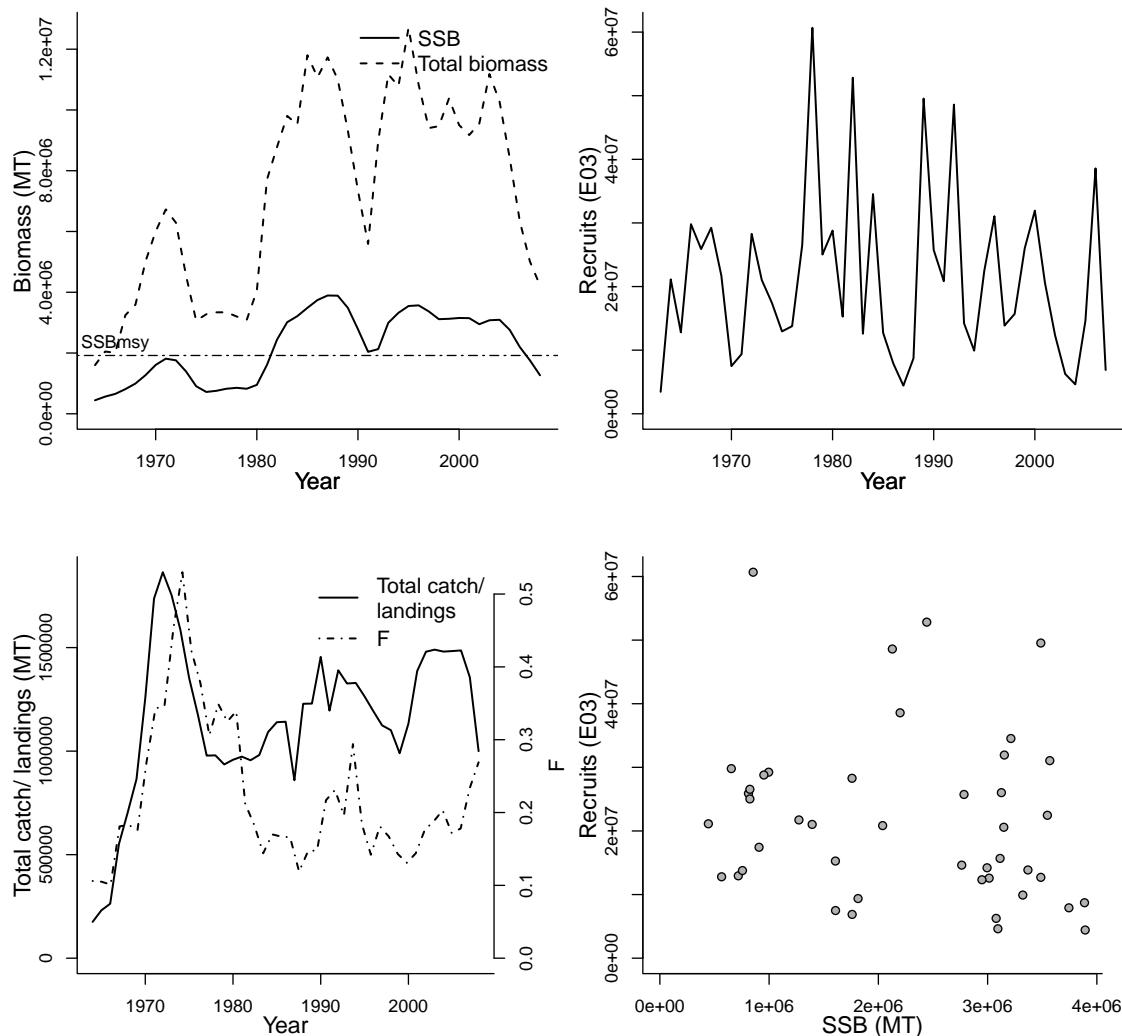
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Ianelli JN
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1963-2008
Document	AFSC-WPOLLEBS-2008-Walleye pollock EBS.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-03-16

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

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			1 - East Bering Sea	na	na
SSB-AGE-yr	3.5	yr			
SSB-SEX-sex	1	sex	Fref-1/T (F)	0.398	1/T
REC-AGE-yr	1	yr	NATMORT-1/yr (M)	0.3	1/yr
F-AGE-yr-yr	1+	yr-yr	F40%-1/T	0.332	1/T
TB-AGE-yr	3+	yr	SSBmsy-MT (SSB)	1919000	MT
A50-yr	3.5	yr	MSY-MT (TB)	977000	MT
M-1/yr	0.3	1/yr	SSB0-MT (SSB)	4980000	MT
NATMORT-1/yr	0.3	1/yr	SSBF40%-MT	2427000	MT
M			BH-h-dimless	0.67	dimless
L50-cm			SSB <sub>2008</sub> /SSB <sub>msy</sub>	0.660	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1964	1963	1964	1964
Maximum year	2008	2007	2007	2008
Time series minimum	444000	3455000	0.101	1600000
Time series maximum	3893000	60673000	0.53	12704000
Units	MT	E03	1/yr	MT



# Assessment of Gulf of Alaska walleye pollock

## *(Theragra chalcogramma)*

Assessment ID:AFSC-WPOLLGA-1964-2008-MELNYCHUK

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/272>

Area ID: USA-NMFS-GA

### General assessment details.

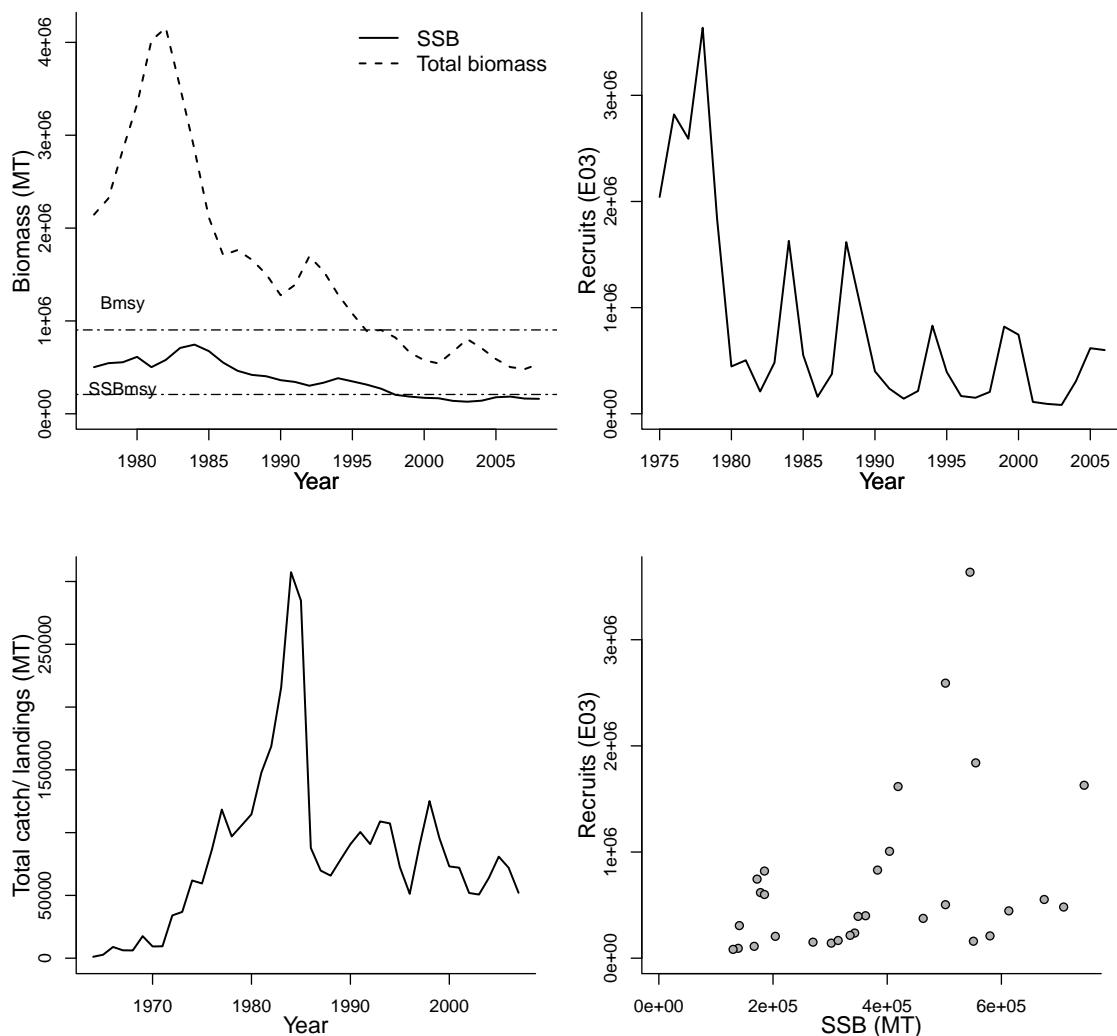
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Dorn, Martin
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1964-2008
Document	AFSC-WPOLLGA-2008-Walleye pollock GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-16
Date last loaded	2009-05-22
QA/QC complete	YES
Date approved	2010-07-27

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

primary LME			secondary LME			tertiary LME		
2 - Gulf of Alaska			na			na		
Reference points								
Parameter	Value	Units	Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	4.9	yr	Fmsy-1/yr (F)	0.286	1/yr			
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.3	1/yr			
REC-AGE-yr	2	yr	F40%-1/T	0.245	1/T			
TB-AGE-yr	3+	yr	SSBmsy-MT (SSB)	208000	MT			
A50-yr	4.9	yr	MSY-MT (TB)	169000	MT			
L50-cm	43	cm	Umsy-ratio (U)	0.187	ratio			
M-1/yr	0.3	1/yr	Bmsy-MT (TB)	903000	MT			
NATMORT-1/yr	0.3	1/yr	SSBF40%-MT	237000	MT			
F-AGE-yr			BF40%-MT	975000	MT			
M			U40%-ratio	0.161	ratio			
			$TB_{2008}/B_{msy}$	0.595				
			$SSB_{2008}/SSB_{msy}$	0.774				

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1977	1975		1977	1964
Maximum year	2008	2006		2008	2007
Time series minimum	130000	83000		481000	1126
Time series maximum	745000	3636000		4157000	307401
Units	MT	E03		MT	MT



# Assessment of Bering Sea and Aleutian Islands yellowfin sole (*Limanda aspera*)

Assessment ID:AFSC-YSOLEBSAI-1959-2008-MELNYCHUK  
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/270>

Area ID: USA-NMFS-BSAI

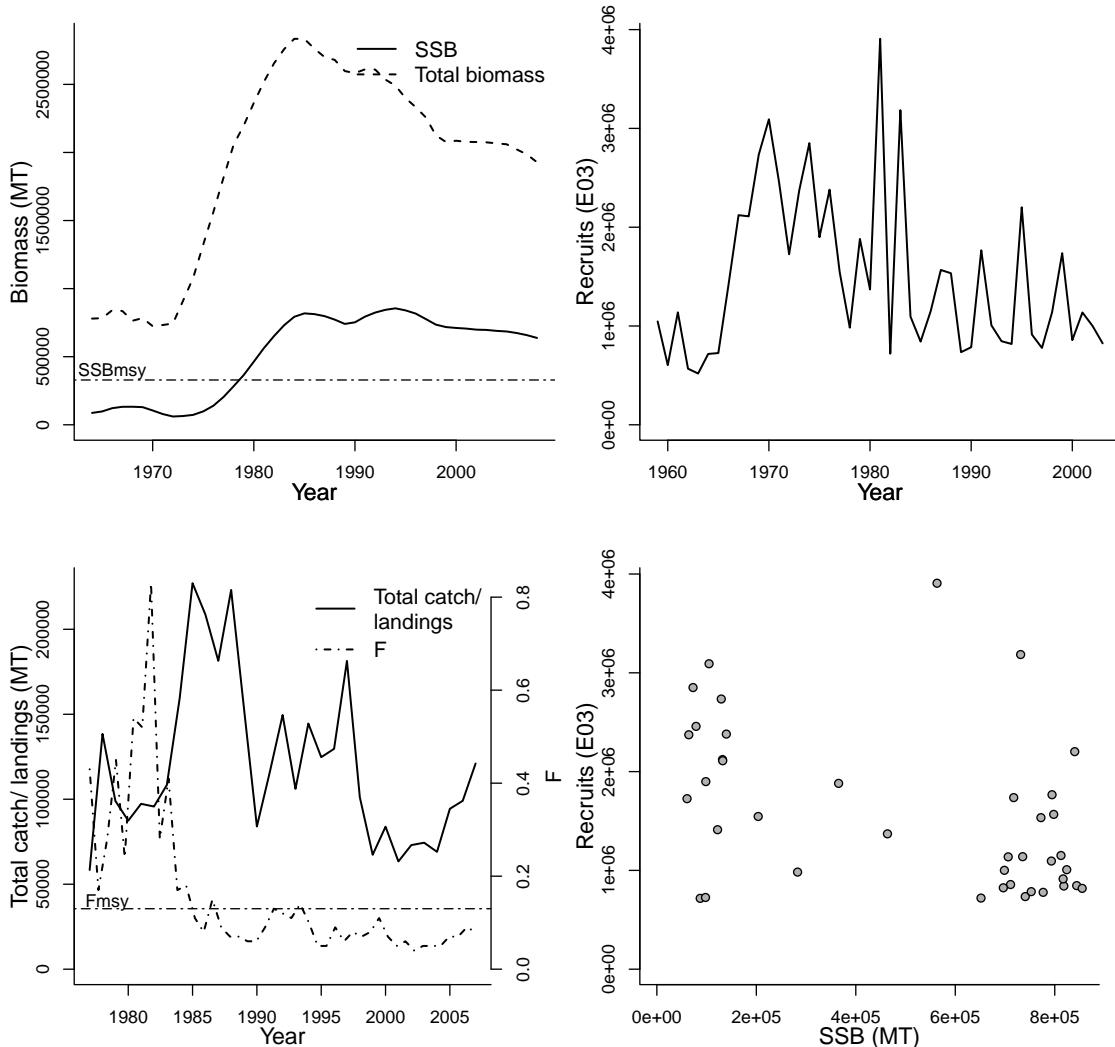
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Wilderbuer T
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1959-2008
Document	AFSC-YSOLEBSAI-2008-Yellowfin sole BSAI.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2009-05-22
QA/QC complete	YES
Date approved	2010-07-27

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

primary LME			secondary LME		tertiary LME			
1 - East Bering Sea			na	na				
Parameter	Value	Units	Reference points					
			Parameter	Value	Units			
SSB-AGE-yr	10.5	yr	Fmsy-1/yr (F)	0.13	1/yr			
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.12	1/yr			
REC-AGE-yr	5	yr	SSBmsy-MT (SSB)	329000	MT			
TB-AGE-yr	2+	yr	$F_{2008}/F_{msy}$	0.615				
A50-yr	10.5	yr	$SSB_{2008}/SSB_{msy}$	1.939				
M-1/yr	0.12	1/yr						
NATMORT-1/yr	0.12	1/yr						
F-AGE-yr								
M								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1964	1959	1964	1964
Maximum year	2008	2003	2008	2008
Time series minimum	60692	519000	0.04	724283
Time series maximum	855155	3907000	0.83	2834670
Units	MT	E03	1/yr	MT



# Assessment of Barents Sea capelin (*Mallotus villosus*)

Assessment ID:AFWG-CAPENOR-1965-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/362>

Area ID: multinational-ICES-I

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Spreadsheet assessment model used for Capelin
Publication year	2007
Timeseries span	1965-2007
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-08
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

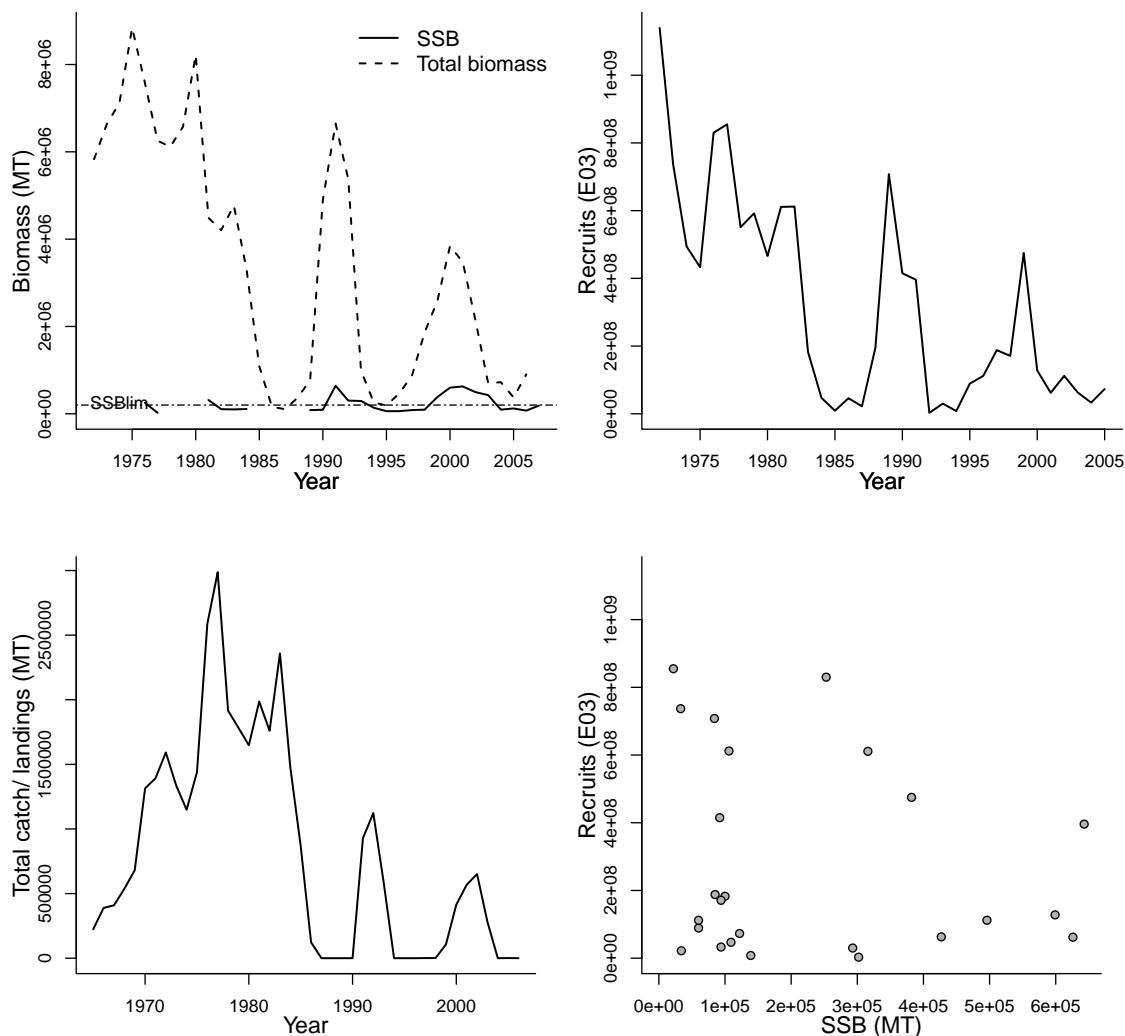
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			20 - Barents Sea	na	na
SSB-AGE-yr	2+	yr			
REC-AGE-yr	1	yr			
TB-AGE-yr	1+	yr			
M-1/T	AVAILABLE	1/T			
SSB-SEX-sex					
F-AGE-yr					
M					
A50-yr					
L50-cm					

Parameter	Value	Units	Reference points
SSBlim-MT (SSB)	200000	MT	
MORATOR-yr-yr	1986-1991	yr-yr	
MORATOR-yr-yr	1993-1999	yr-yr	
MORATOR-yr-yr	2004-2006	yr-yr	
$SSB_{2007}/SSB_{lim}$	0.945		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1973	1972		1972
Maximum year	2007	2005		2006
Time series minimum	22000	3000000	107000	0
Time series maximum	643000	1140000000	8841000	2987000
Units	MT	E03	MT	MT



# Assessment of North-East Arctic atlantic cod

## (*Gadus morhua*)

Assessment ID: AFWG-CODCOASTNOR-1982-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/363>

Area ID: multinational-ICES-I-II

### General assessment details.

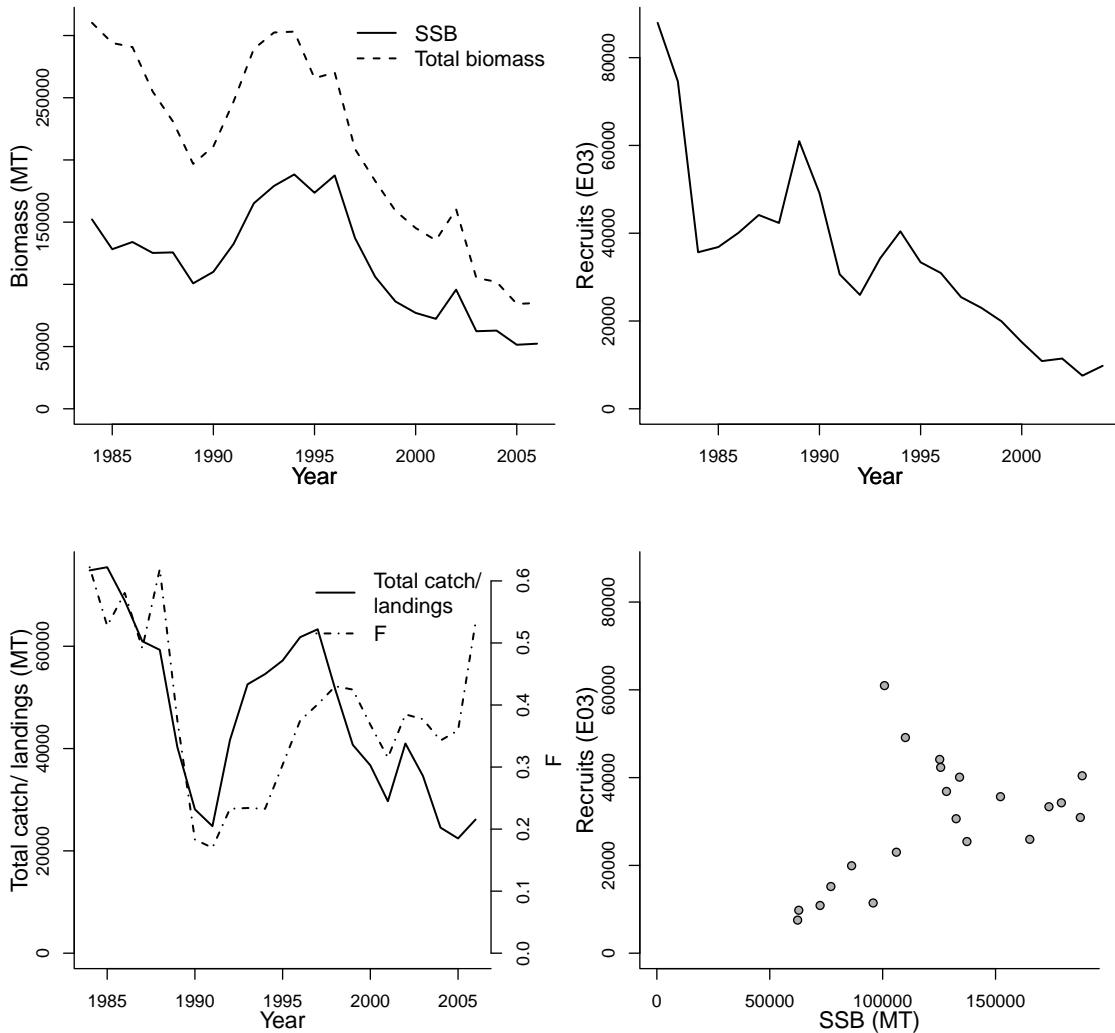
Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1982-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-03-24
Date last loaded	2010-07-18
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
21 - Norwegian Sea	22 - North Sea	na
<hr/>		
Parameter	Value	Units
A50-yr	5	yr
SSB-AGE-yr	2+	yr
REC-AGE-yr	2	yr
F-AGE-yr-yr	4-7	yr-yr
M-1/T	0.2	1/T
TB-AGE-yr	2+	yr
<hr/>		
SSB-SEX-sex	Reference points	
M	Parameter	Value
L50-cm		Units

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1984	1982	1984	1984	1984
Maximum year	2006	2004	2006	2006	2006
Time series minimum	51445	7539	0.1699	84309	22432
Time series maximum	188357	87938	0.6221	310230	75451
Units	MT	E03	1/T	MT	MT



# Assessment of North-East Arctic atlantic cod

## *(Gadus morhua)*

Assessment ID:AFWG-CODNEAR-1943-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/364>

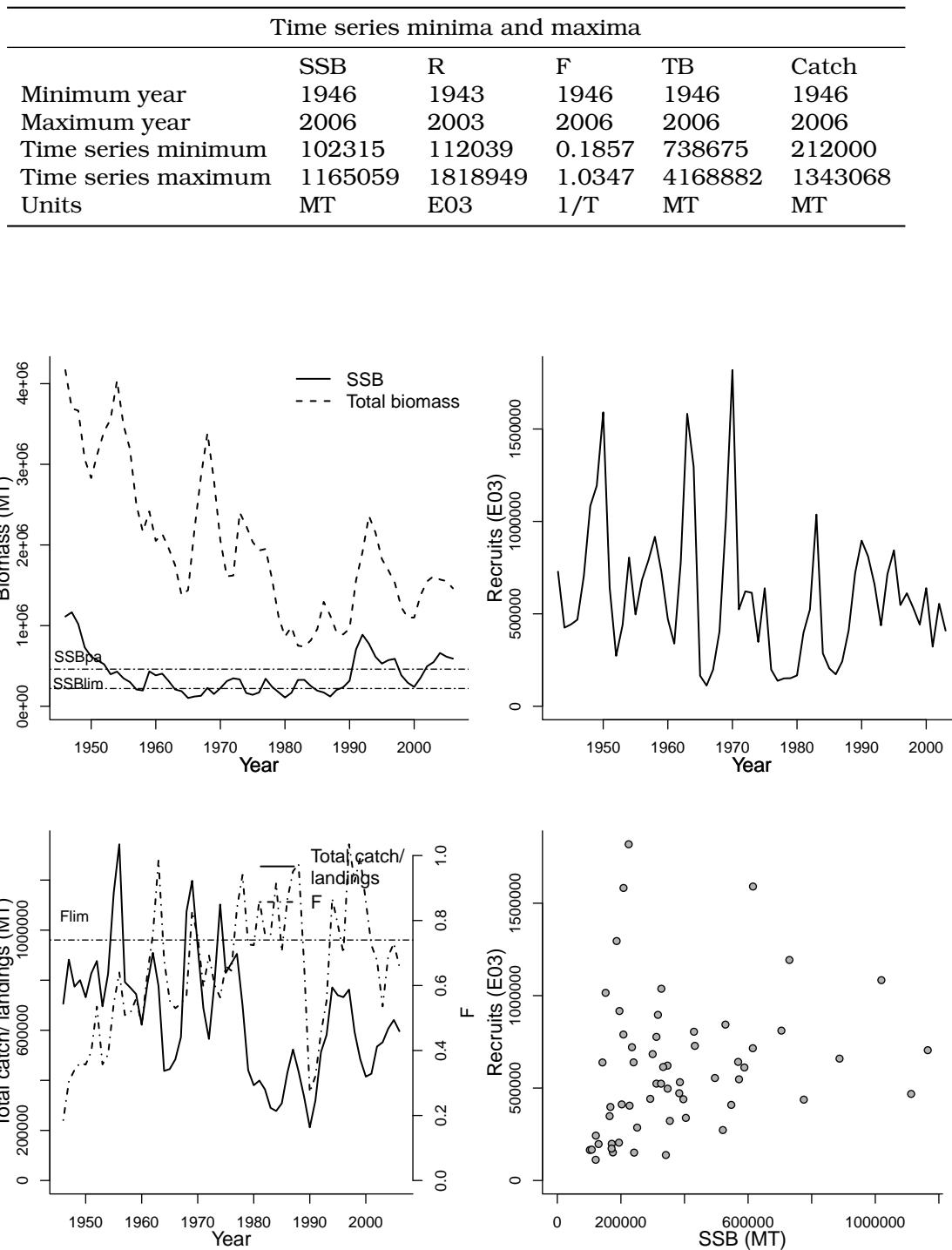
Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1943-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-02-15
Date last loaded	2010-07-18
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		
20 - Barents Sea			21 - Norwegian Sea			na		
Parameter	Value	Units	Parameter	Reference points	Value	Parameter	Value	Units
A50-yr	6.5	yr	SSBlim-MT (SSB)	SSBlim-MT (SSB)	220000	MT		
SSB-AGE-yr	3+	yr	SSBpa-MT (SSB)	SSBpa-MT (SSB)	460000	MT		
SSB-SEX-sex	0	sex	F0.1-1/T	F0.1-1/T	0.15	1/T		
REC-AGE-yr	3	yr	Flim-1/T (F)	Flim-1/T (F)	0.74	1/T		
F-AGE-yr-yr	5-10	yr-yr	Fpa-1/T (F)	Fpa-1/T (F)	0.4	1/T		
M-1/T	0.2	1/T	Fmax-1/T	Fmax-1/T	0.28	1/T		
TB-AGE-yr	3+	yr	$SSB_{2006}/SSB_{lim}$	$SSB_{2006}/SSB_{lim}$	2.685			
M			$F_{2006}/F_{lim}$	$F_{2006}/F_{lim}$	0.889			
L50-cm								



# Assessment of North-East Arctic greenland halibut (*Reinhardtius hippoglossoides*)

Assessment ID: AFWG-GHALNEAR-1959-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/76>

Area ID: multinational-ICES-I-II

General assessment details.

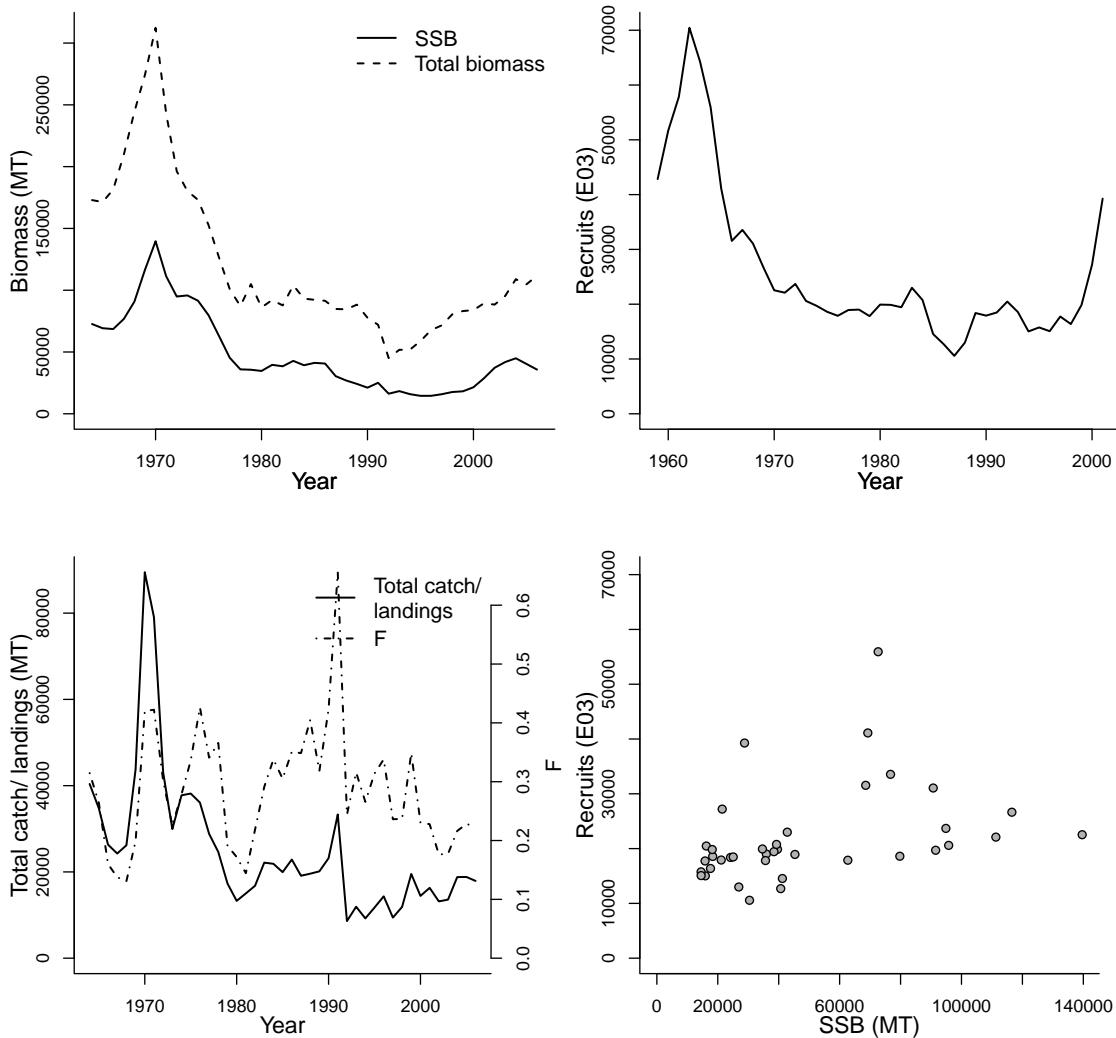
Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1959-2007
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-26
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME	secondary LME	tertiary LME
20 - Barents Sea	21 - Norwegian Sea	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	5	yr
F-AGE-yr-yr	6 to 10	yr-yr
TB-AGE-yr	5+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.15	1/T
SSB-SEX-sex		
M		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1964	1959	1964	1964	1964
Maximum year	2006	2001	2006	2006	2006
Time series minimum	14516	10569	0.1309	45036	8602
Time series maximum	139620	70443	0.6561	312354	89484
Units	MT	E03	1/T	MT	MT



# Assessment of North-East Arctic golden redfish (*Sebastes norvegicus*)

Assessment ID: AFWG-GOLDREDNEAR-1986-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/365>

Area ID: multinational-ICES-I-II

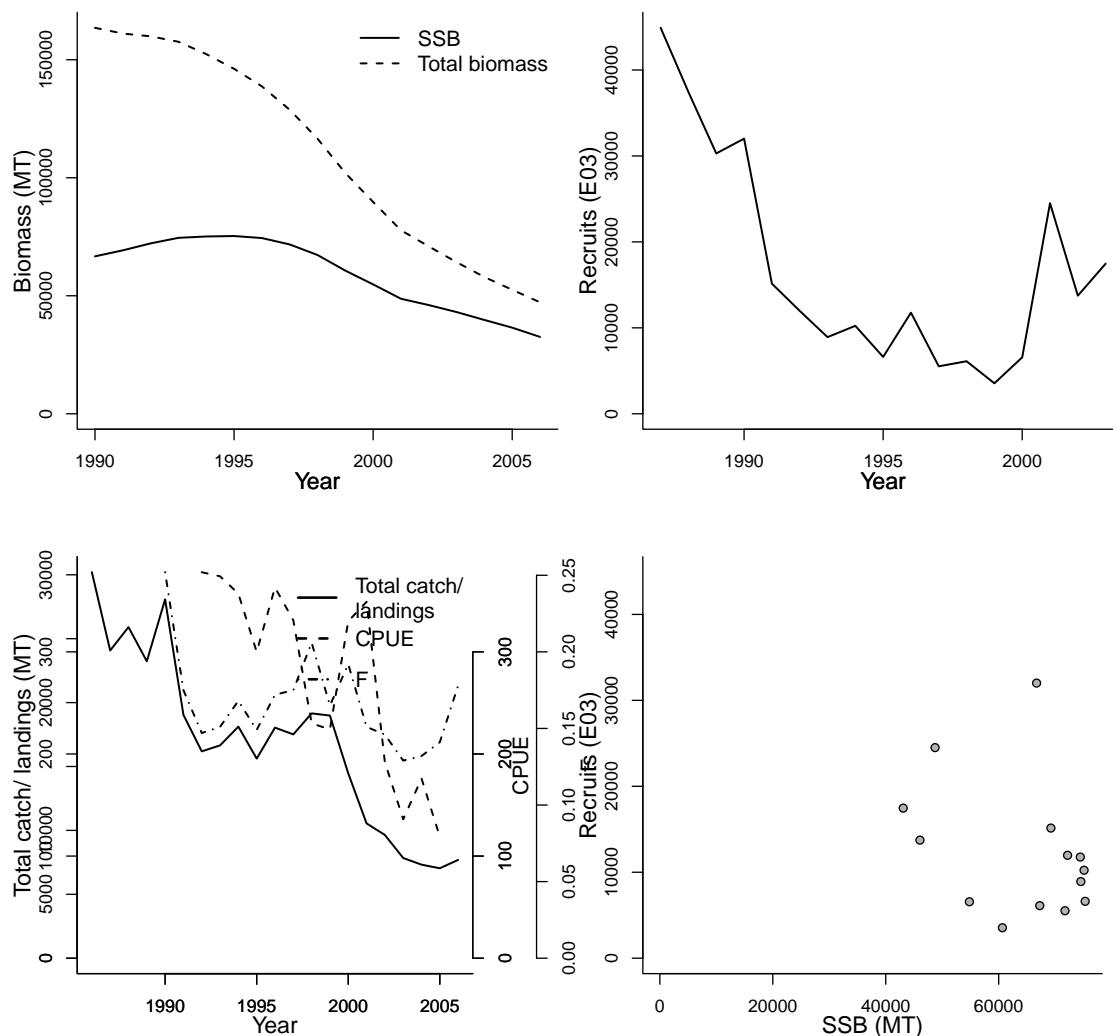
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Globally Applicable area-Disaggregated General Ecosystem Toolbox - An ecosystem-based management tool used for assessment
Publication year	2007
Timeseries span	1986-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-07
Date last loaded	2010-07-18
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.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			20 - Barents Sea	21 - Norwegian Sea	na
A50-yr	12	yr			
REC-AGE-yr	3	yr			
SSB-AGE-yr	4+	yr			Reference points
M-1/T	0.10	1/T	Parameter	Value	Units
TB-AGE-yr	3+	yr	MORATOR-yr-yr	2004-2007	yr-yr
F-AGE-yr-yr	12-19	yr-yr			
SSB-SEX-sex					
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1990	1987	1990	1990	1986
Maximum year	2006	2003	2006	2006	2006
Time series minimum	32572	3547	0.129	47231	7037
Time series maximum	75317	44912	0.252	163536	30203
Units	MT	E03	1/T	MT	MT



# Assessment of North-East Arctic haddock

## *(Melanogrammus aeglefinus)*

Assessment ID:AFWG-HADNEAR-1947-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/366>

Area ID: multinational-ICES-I-II

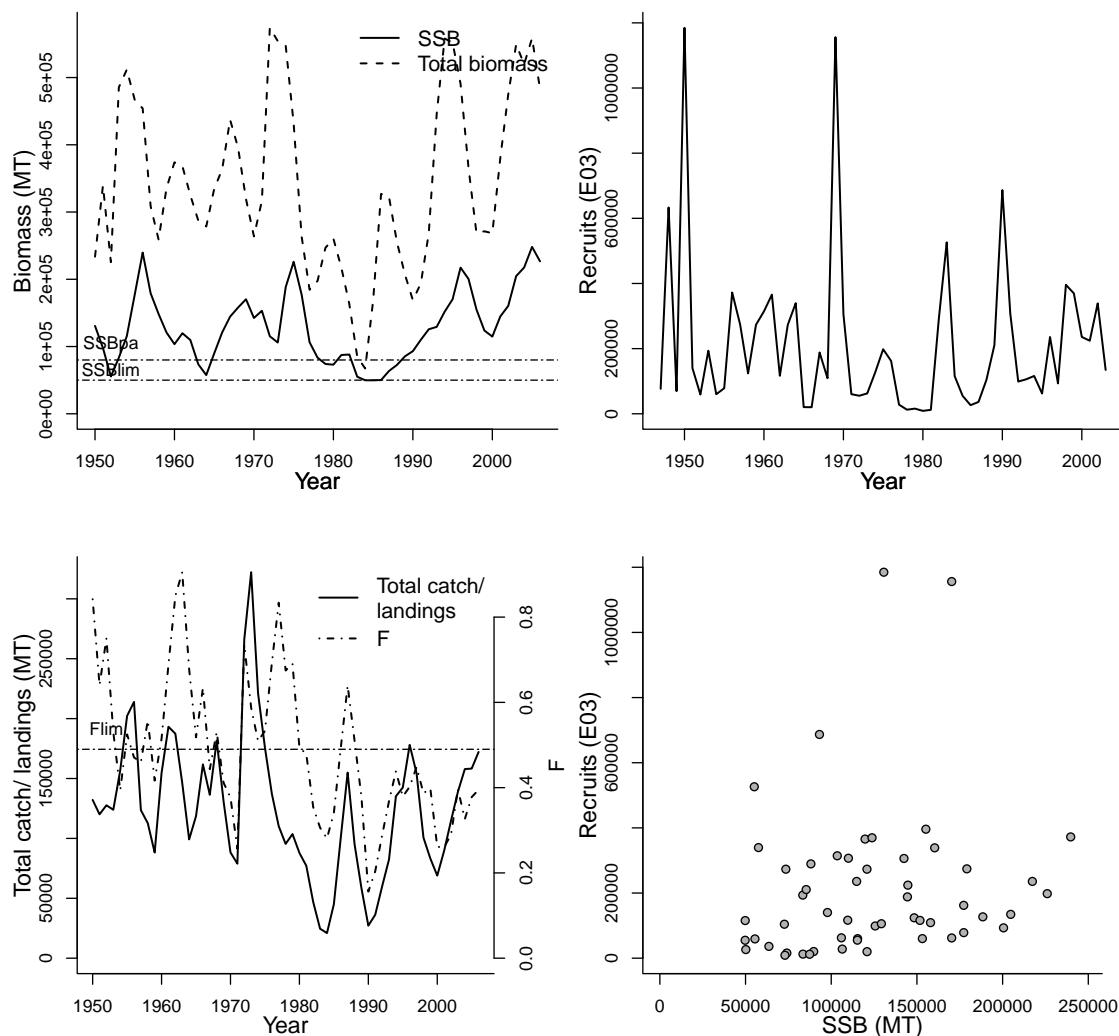
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1947-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-03-31
Date last loaded	2010-07-18
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.

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
20 - Barents Sea	21 - Norwegian Sea	na			
A50-yr	6	yr			
SSB-AGE-yr	3+	yr	SSBlim-MT (SSB)	50000	MT
REC-AGE-yr	3	yr	SSBpa-MT (SSB)	80000	MT
F-AGE-yr-yr	4-7	yr-yr	Flim-1/T (F)	0.49	1/T
M-1/T	0.2+cod mortality	1/T	Fpa-1/T (F)	0.35	1/T
TB-AGE-yr	3+	yr	$SSB_{2006}/SSB_{lim}$	4.533	
SSB-SEX-sex			$F_{2006}/F_{lim}$	0.806	
M					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1950	1947	1950	1950
Maximum year	2006	2003	2006	2006
Time series minimum	49753	8961	0.1562	67367
Time series maximum	248181	1184843	0.9053	573954
Units	MT	E03	1/T	MT



# Assessment of North-East Arctic pollock

## *(Pollachius virens)*

Assessment ID: AFWG-POLLNEAR-1957-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/367>

Area ID: multinational-ICES-I-II

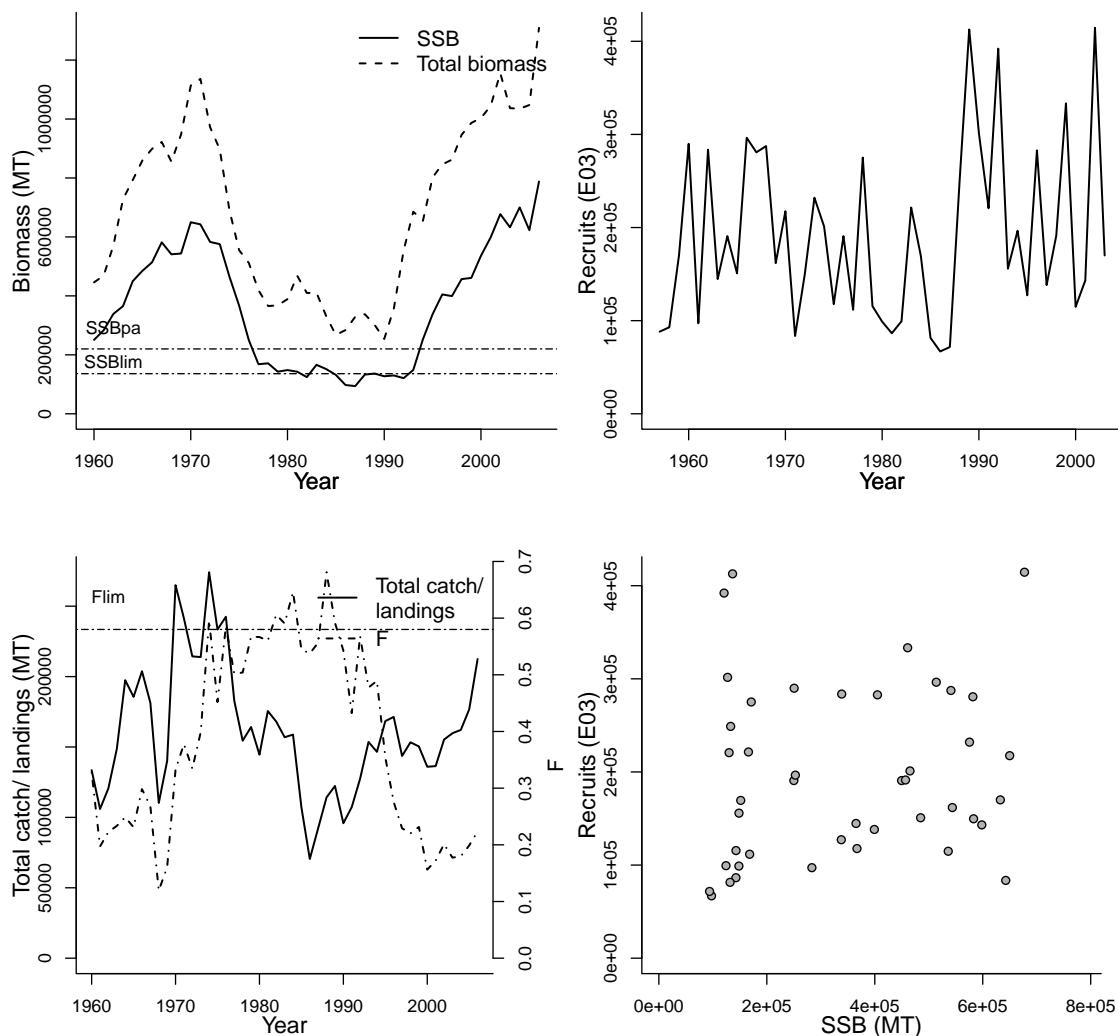
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1957-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-07
Date last loaded	2010-07-18
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	
20 - Barents Sea			21 - Norwegian Sea		na	
Parameter	Value	Units	Parameter	Reference points	Value	Units
A50-yr	5	yr	SSBlim-MT (SSB)	SSBlim-MT (SSB)	136000	MT
SSB-AGE-yr	4+	yr	SSBpa-MT (SSB)	SSBpa-MT (SSB)	220000	MT
REC-AGE-yr	3	yr	F0.1-1/T	F0.1-1/T	0.14	1/T
F-AGE-yr-yr	4-7	yr-yr	Fmax-1/T	Fmax-1/T	0.32	1/T
M-1/T	0.2	1/T	Flim-1/T (F)	Flim-1/T (F)	0.58	1/T
TB-AGE-yr	3+	yr	Fpa-1/T (F)	Fpa-1/T (F)	0.35	1/T
SSB-SEX-sex			SSB <sub>2006</sub> /SSB <sub>lim</sub>	SSB <sub>2006</sub> /SSB <sub>lim</sub>	5.793	
M			F <sub>2006</sub> /F <sub>lim</sub>	F <sub>2006</sub> /F <sub>lim</sub>	0.386	
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1960	1957	1960	1960
Maximum year	2006	2003	2006	2006
Time series minimum	93950	66951	0.1193	253730
Time series maximum	787915	414480	0.681	1309499
Units	MT	E03	1/T	MT



# Assessment of North-East Arctic deepwater redfish (*Sebastes mentella*)

Assessment ID:AFWG-REDDEPI-II-1985-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/368>

Area ID: multinational-ICES-I-II

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific survey data
Publication year	2007
Timeseries span	1985-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-07
Date last loaded	2010-07-18
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
20 - Barents Sea	21 - Norwegian Sea	na
<hr/>		
Parameter	Value	Units
A50-yr	13	yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		

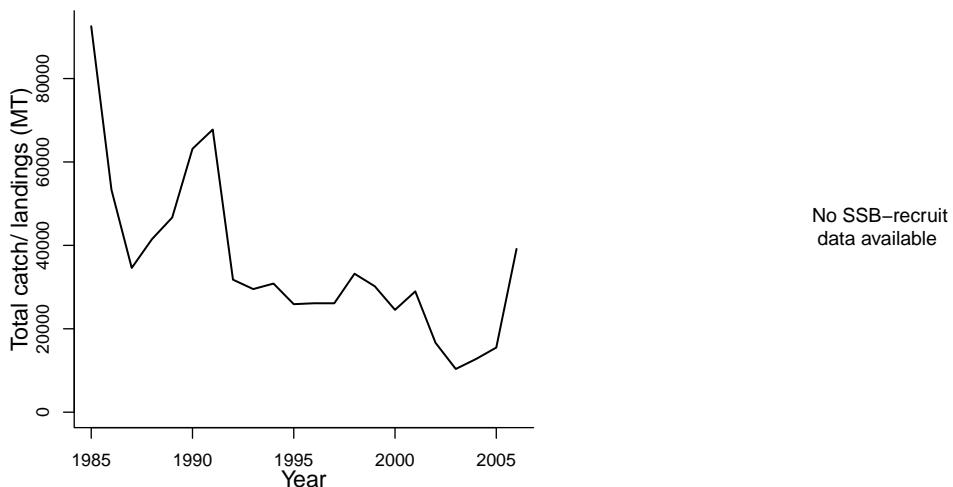
  

Reference points		
Parameter	Value	Units

Time series minima and maxima				
	SSB	R	F	TB
Minimum year				1985
Maximum year				2006
Time series minimum				10361
Time series maximum				92552
Units				MT

No biomass data available

No recruitment data available



# Assessment of Mid-Atlantic Coast atlantic croaker (*Micropogonias undulatus*)

Assessment ID:ASMFC-ATLCROAKMATLC-1973-2002-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/414>

Area ID: USA-NMFS-MATLC

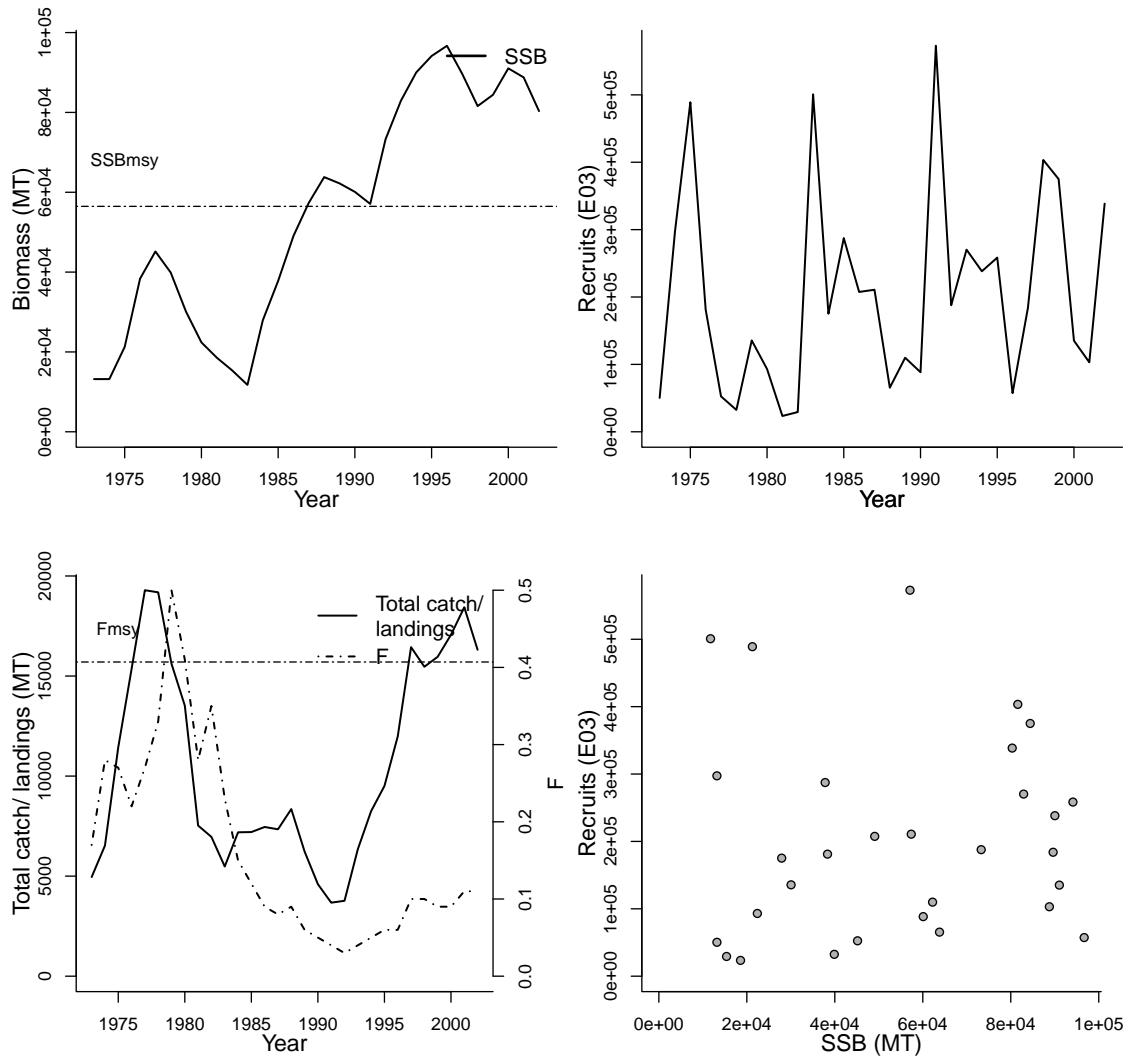
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Atlantic States Marine Fisheries Commission
Assessment authors	
Assessment method	Age-structured surplus production model
Publication year	2004
Timeseries span	1973-2002
Document	2004_ASMFC_AtlCroak.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-08-13
Date last loaded	2009-11-03
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	Reference points		
TB-AGE-yr	0+	yr	Parameter	Value	Units
M-1/yr	0.3	1/yr	Fmsy-1/yr (F)	0.407	1/yr
NATMORT-1/yr	0.3	1/yr	NATMORT-1/yr (M)	0.3	1/yr
SSB-SEX-sex	1	sex	SSBmsy-MT (SSB)	56467	MT
REC-AGE-yr	0	yr	BH-h-dimless	0.76	dimless
F-AGE-yr-yr	1-10	yr-yr	$F_{2002}/F_{msy}$	0.270	
SSB-AGE-yr			$SSB_{2002}/SSB_{msy}$	1.423	
M					
A50-yr					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1973	1973	1973	1973
Maximum year	2002	2002	2002	2002
Time series minimum	11746	23440	0.03	3674
Time series maximum	96686	572800	0.5	19289
Units	MT	E03	1/yr	MT



# Assessment of Georges Bank american lobster (*Homarus americanus*)

Assessment ID:ASMFC-LOBSTERGB-1981-2007-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/412>

Area ID: USA-NMFS-5Z

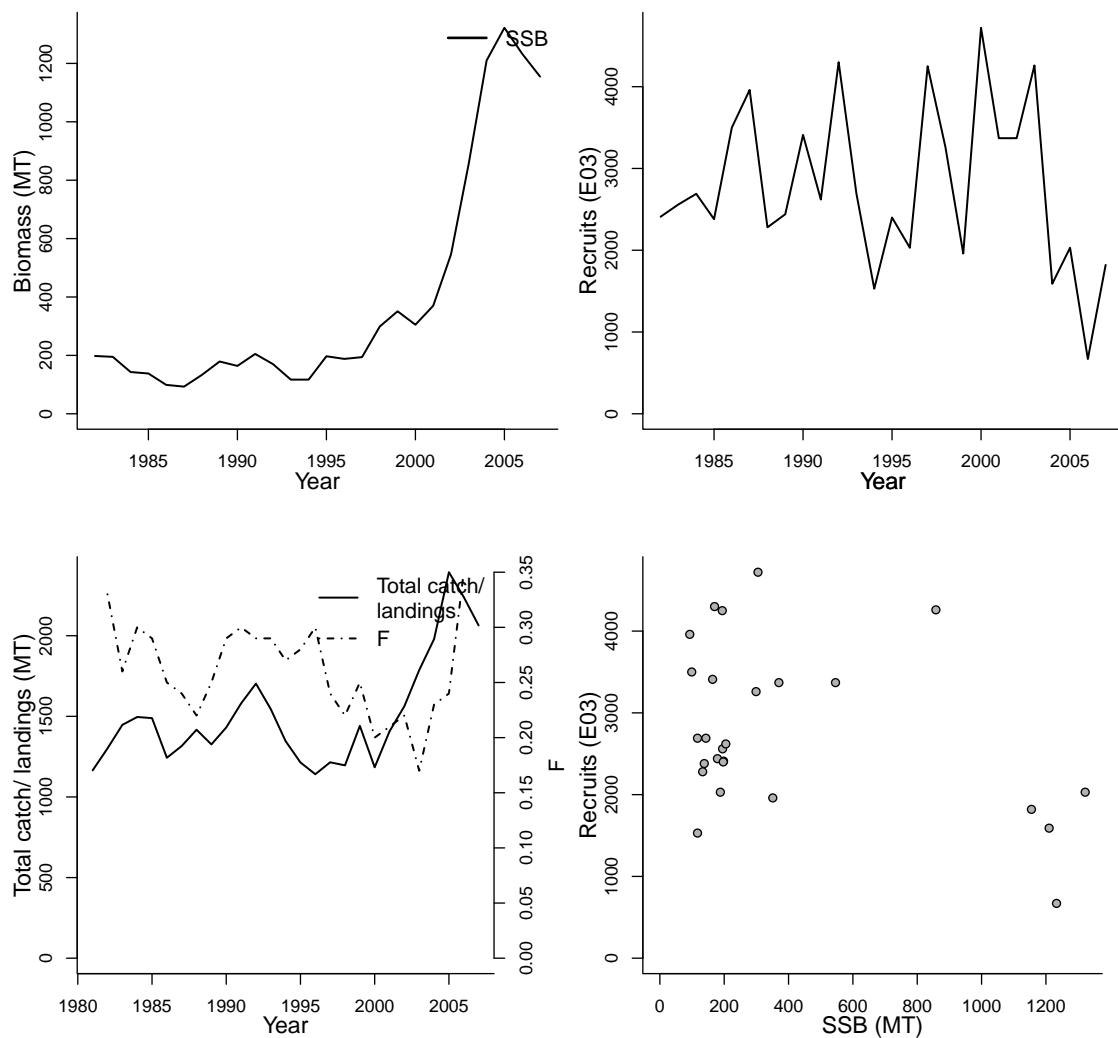
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Atlantic States Marine Fisheries Commission
Assessment authors	McKown, Kim
Assessment method	Collie-Sissenwine model
Publication year	
Timeseries span	1981-2007
Document	2009-ASMFC-Am-Lob.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-08-12
Date last loaded	2009-11-12
QA/QC complete	YES
Date approved	2011-02-16

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	1	sex	
M-1/yr	0.15	1/yr	
NATMORT-1/yr	0.15	1/yr	
REC-AGE			Reference points
SSB-AGE-yr			Parameter
TB-AGE-yr			Value
F-AGE-yr			Units
M			
A50-yr			
L50-cm			

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1982	1982	1982	1981
Maximum year	2007	2007	2006	2007
Time series minimum	93	670	0.17	1141
Time series maximum	1322	4720	0.35	2394
Units	MT	E03	1/yr	MT



# Assessment of Gulf of Maine american lobster (*Homarus americanus*)

Assessment ID:ASMFC-LOBSTERGOM-1981-2007-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/411>

Area ID: USA-NMFS-5Y

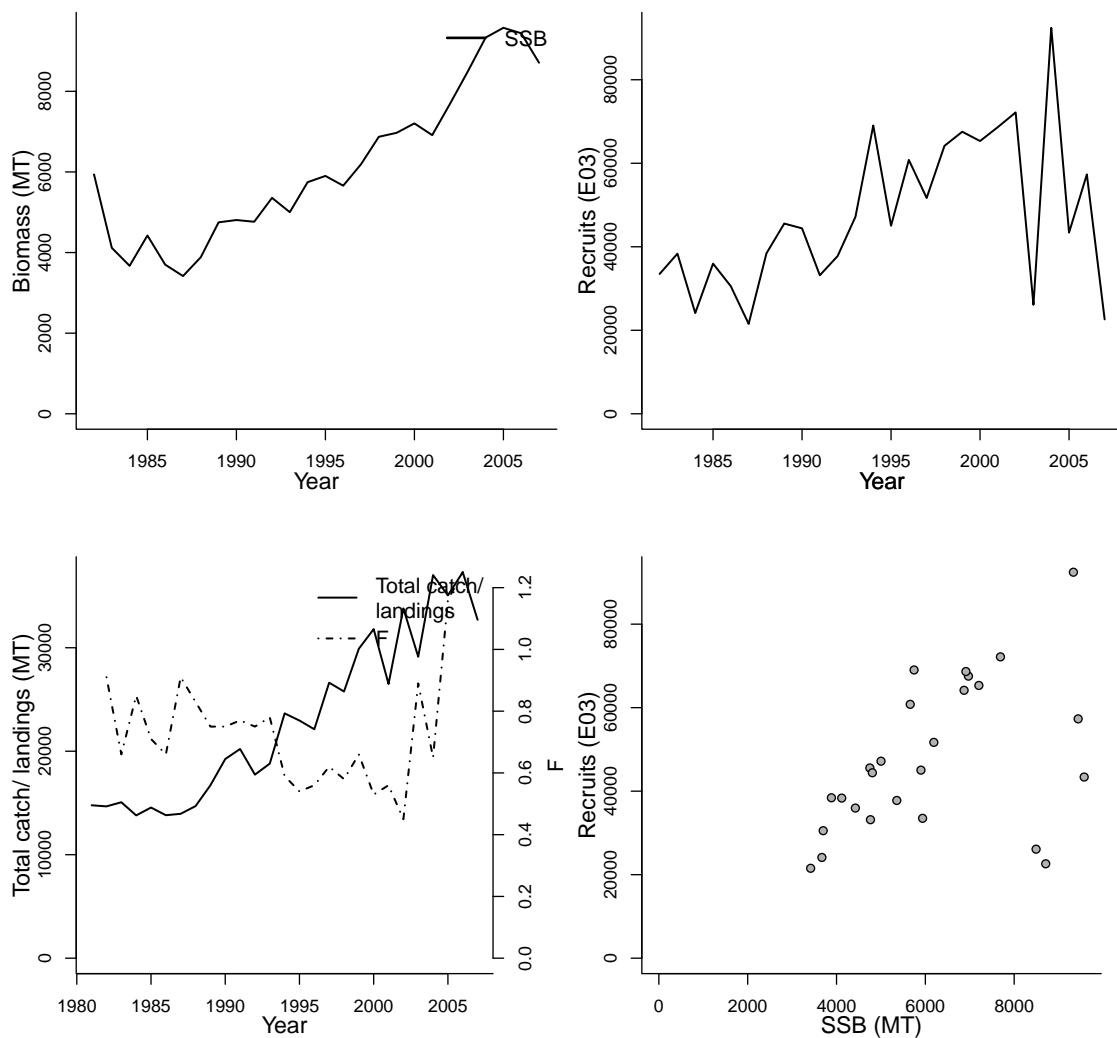
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Atlantic States Marine Fisheries Commission
Assessment authors	McKown, Kim
Assessment method	Collie-Sissenwine model
Publication year	
Timeseries span	1981-2007
Document	2009-ASMFC-Am-Lob.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-08-12
Date last loaded	2009-11-12
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	1	sex	
M-1/yr	0.15	1/yr	
NATMORT-1/yr	0.15	1/yr	
REC-AGE			Reference points
SSB-AGE-yr			Parameter
TB-AGE-yr			Value
F-AGE-yr			Units
M			
A50-yr			
L50-cm			

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1982	1982	1982	1981
Maximum year	2007	2007	2006	2007
Time series minimum	3417	21530	0.45	13797
Time series maximum	9576	92440	1.25	37297
Units	MT	E03	1/yr	MT



# Assessment of Southern New England american lobster (*Homarus americanus*)

Assessment ID:ASMFC-LOBSTERSNE-1981-2007-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/413>

Area ID: USA-NMFS-SNE

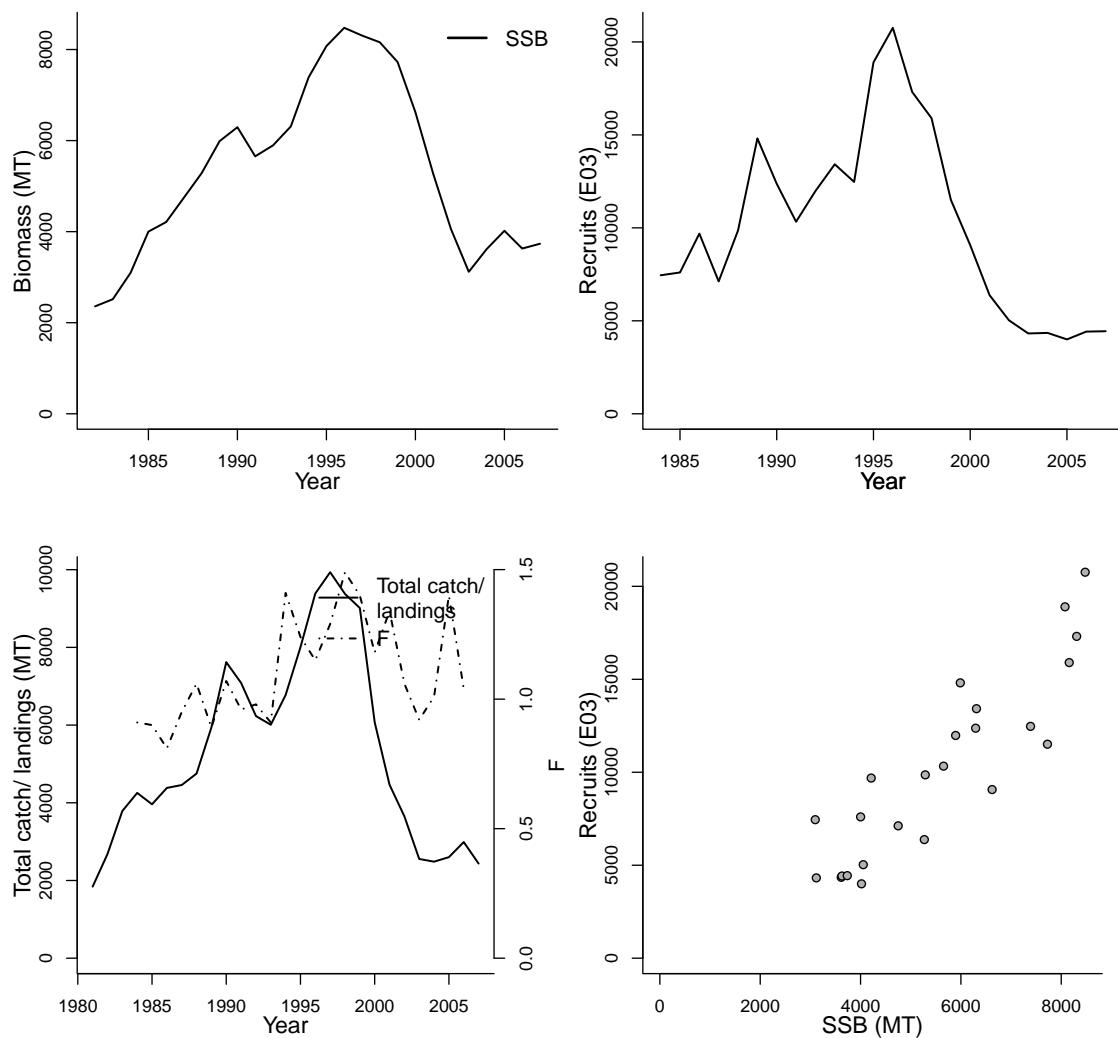
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Atlantic States Marine Fisheries Commission
Assessment authors	McKown, Kim
Assessment method	Collie-Sissenwine model
Publication year	
Timeseries span	1981-2007
Document	2009-ASMFC-Am-Lob.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-08-12
Date last loaded	2009-11-12
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	1	sex	
M-1/yr	0.15	1/yr	
NATMORT-1/yr	0.15	1/yr	
REC-AGE			Reference points
SSB-AGE-yr			Parameter
TB-AGE-yr			Value
F-AGE-yr			Units
M			
A50-yr			
L50-cm			

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1982	1984	1984	1981
Maximum year	2007	2007	2006	2007
Time series minimum	2359	4000	0.81	1842
Time series maximum	8477	20760	1.49	9935
Units	MT	E03	1/yr	MT



# Assessment of Gulf of Maine northern shrimp (*Pandalus borealis*)

Assessment ID:ASMFC-PANDALGOM-1960-2009-IDOINE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/331>

Area ID: USA-NMFS-5Y

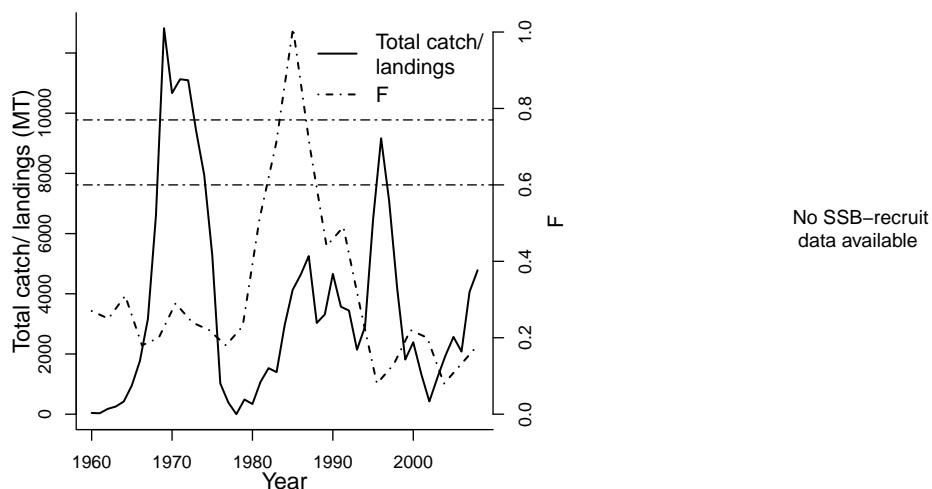
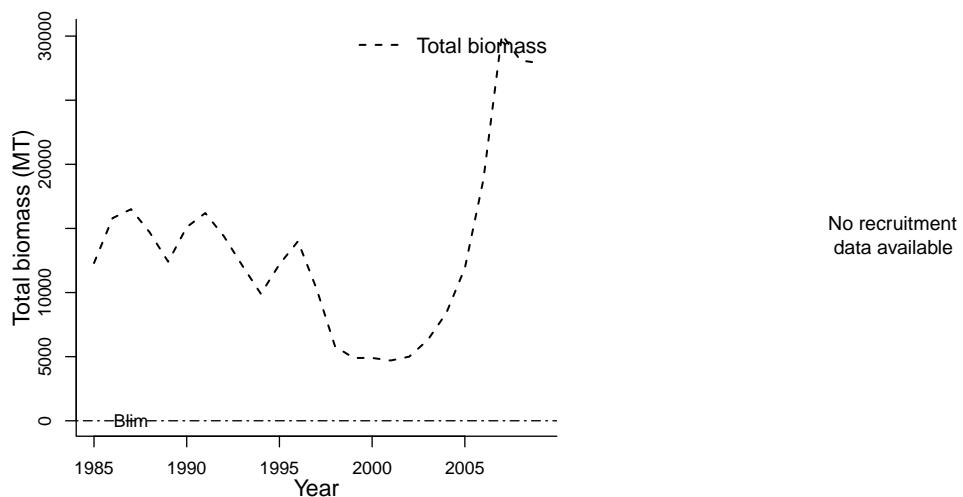
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Atlantic States Marine Fisheries Commission
Assessment authors	Atlantic States Marine Fisheries Commission
Assessment method	Catch-Survey Analysis (like a state space approach)
Publication year	2008
Timeseries span	1960-2009
Document	2008ShrimpAssessment.pdf (pdf in database)
Recorder	IDOINE
Date entered	2009-04-22
Date last loaded	2009-11-08
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	Reference points		
SSB-AGE-yr	3.5	yr	Blim-MT (TB)	1.54	MT
SSB-SEX-sex	1	sex	Bpa-MT (TB)	9	MT
F-AGE-yr-yr	1.5-6	yr-yr	F0.1-1/yr (F)	0.46	1/yr
TB-AGE-yr	1.5+	yr	Flim-1/T (F)	0.6	1/T
M-1/yr	0.25	1/yr	Fmsy-1/yr (F)	0.77	1/yr
REC-AGE			Fpa-1/T (F)	0.28	1/T
M			MORATOR-yr-yr	1978	yr-yr
A50-yr			F40%-1/T	0.34	1/T
L50-cm			$F_{2008}/F_{lim}$	0.300	
			$F_{2008}/F_{msy}$	0.234	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1985	1985	1960
Maximum year			2008	2009	2008
Time series minimum			0.08	4700	0
Time series maximum			1.01	30100	12823.9
Units			1/T	MT	MT



# Assessment of Ross Sea antarctic toothfish

## (*Dissostichus mawsoni*)

Assessment ID:CCAMLR-ATOOTHFISHRS-1995-2007-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/420>

Area ID: multinational-CCAMLR-RS

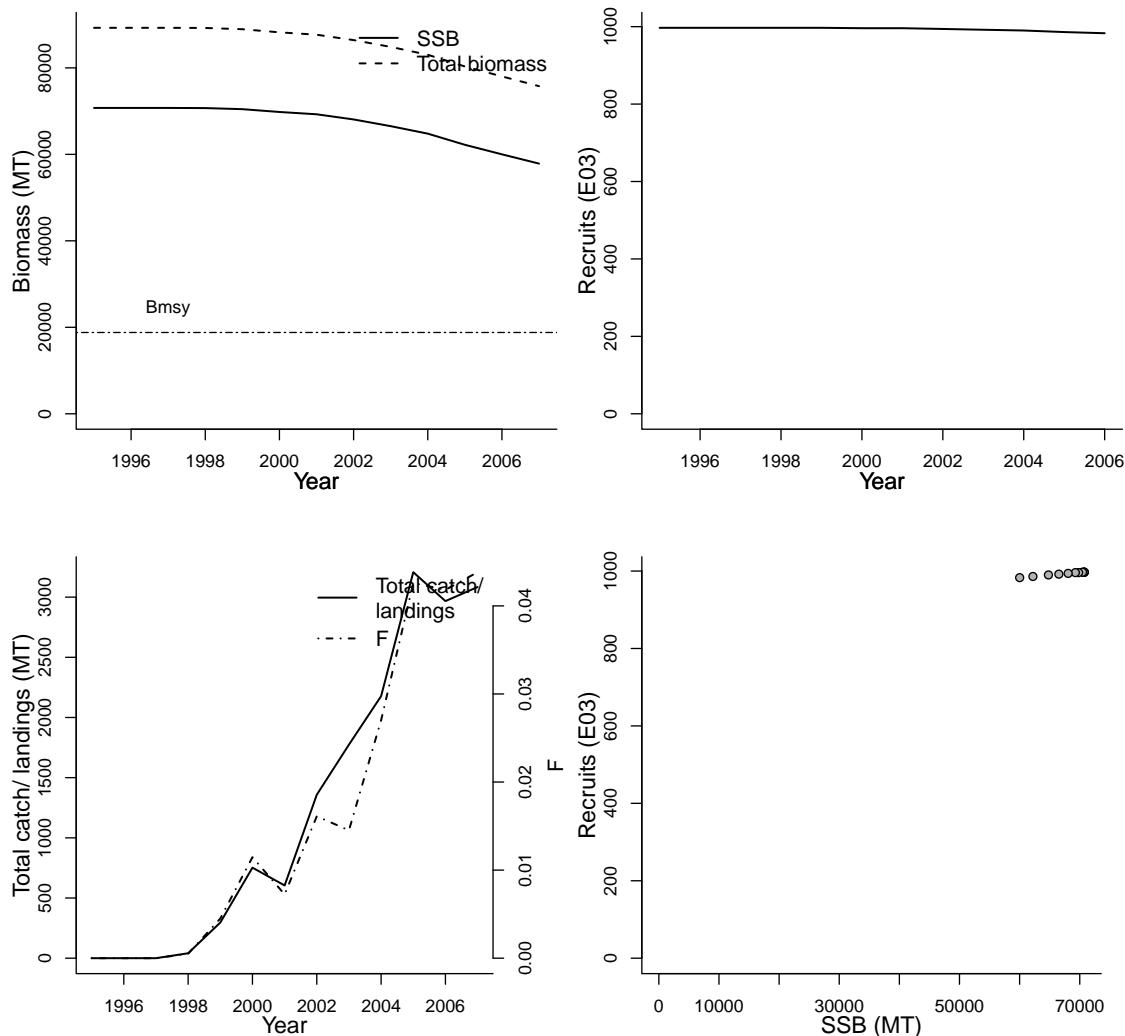
General assessment details.

Detail	Value
Management body	CCAMLR
Assessment group	Commission for the Conservation of Antarctic Marine Living Resources
Assessment authors	Dunn, A.
Assessment method	CASAL
Publication year	2008
Timeseries span	1995-2007
Document	ATOOTHFISHRS.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-06-14
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	
-96 - Subantarctic High Seas			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
TB-AGE-yr	1	yr	BH-h-dimless	0.75	dimless
A50-yr	9.25	yr	Fmsy-1/yr (F)	0.136	1/yr
M-1/yr	0.13	1/yr	MSY-MT (TB)	3105.3982	MT
SSB-AGE-yr			Bmsy-MT (TB)	18802.1604	MT
SSB-SEX-sex			SSBO-MT (SSB)	70738	MT
F-AGE-yr			$TB_{2007}/B_{m\text{sy}}$	4.030	
M			$F_{2007}/F_{m\text{sy}}$	0.322	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1995	1995	1995	1995
Maximum year	2007	2006	2007	2007
Time series minimum	57865.8	983	0	75776.5
Time series maximum	70738	997	0.04382281	89269.9
Units	MT	E03	1/yr	MT



# Assessment of 0

Assessment ID:CCSBT-SC-SBT-1931-2009-Parma  
 Issue URL:

Area ID:

General assessment details.

Detail	Value
Management body	CCSBT
Assessment group	CCSBT Scientific Committee
Assessment authors	Kurota, H.
Assessment method	Integrated Analysis
Publication year	2010
Timeseries span	1931-2009
Document	Kurota-etal-2010.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
Date approved	

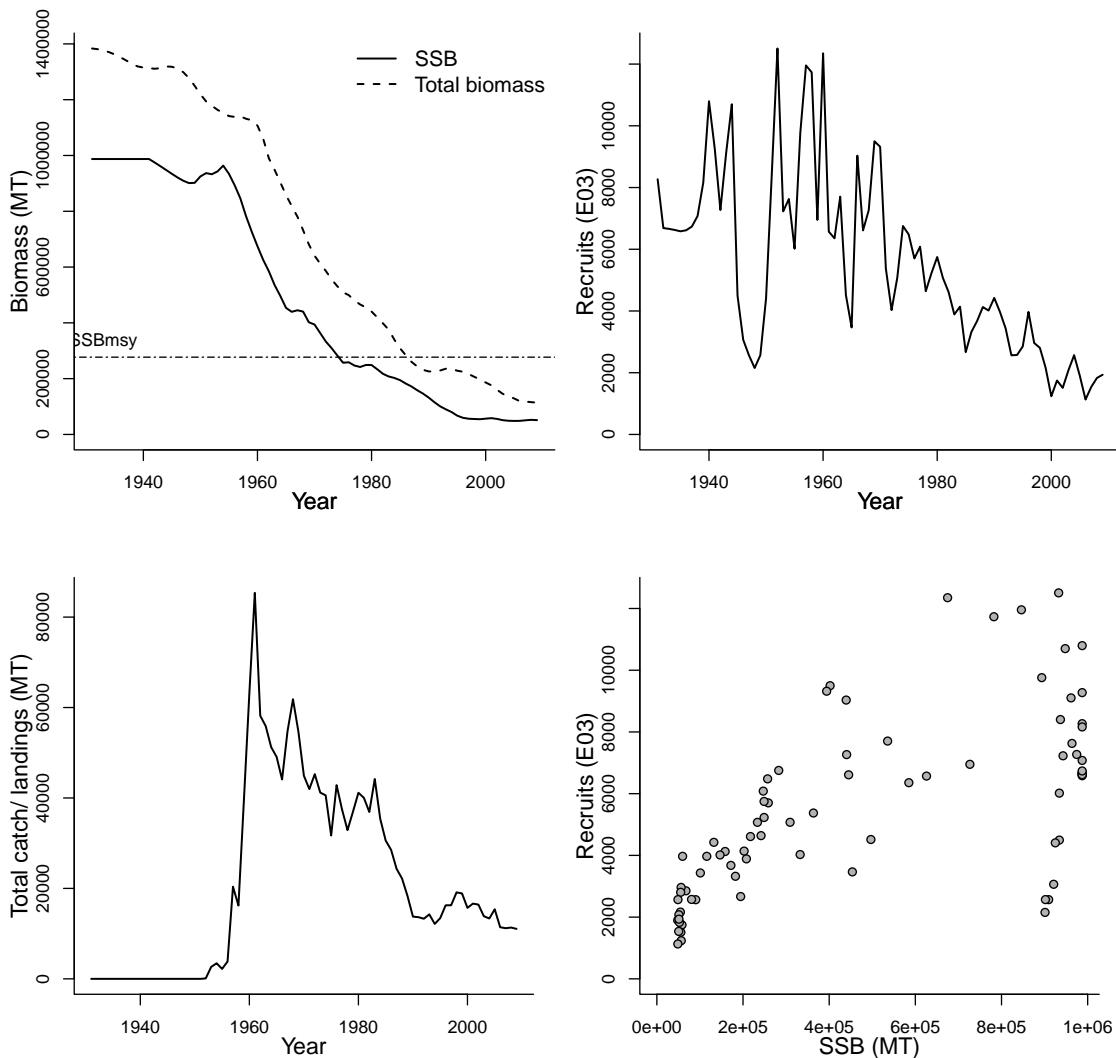
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME		secondary LME		tertiary LME	
Parameter	Value	Parameter	Value	Parameter	Value
-97 - Indian High Seas		-99 - Pacific High Seas		-98 - Atlantic High Seas	
SSB-AGE-yr	10	yr			
SSB-SEX-sex	0	sex			
REC-AGE-yr	0	yr			
TB-AGE-yr	0	yr			
F-AGE-yr					
M					
A50-yr					
L50-cm					

Reference points		
Parameter	Value	Units
SSBmsy-MT (SSB)	277047.081081081	MT
SSB0-MT (SSB)	899187.894736842	MT
$SSB_{2009}/SSB_{msy}$	0.185	

Time series minima and maxima				
	SSB	R	F	Catch
Minimum year	1931	1931	1931	1931
Maximum year	2009	2009	2009	2009
Time series minimum	48470.10065	1130.471281	113766.4	0
Time series maximum	987246.604	12506.18435	1383627.072	85355.76
Units	MT	E03	MT	MT



# Assessment of Iranian Caspian Sea anchovy *kilka* (*Clupeonella engrauliformis*)

Assessment ID:CSERG-ANCHOVYKILKACS-1991-2007-JENSEN  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/460>

Area ID: Iran-Iran-CS

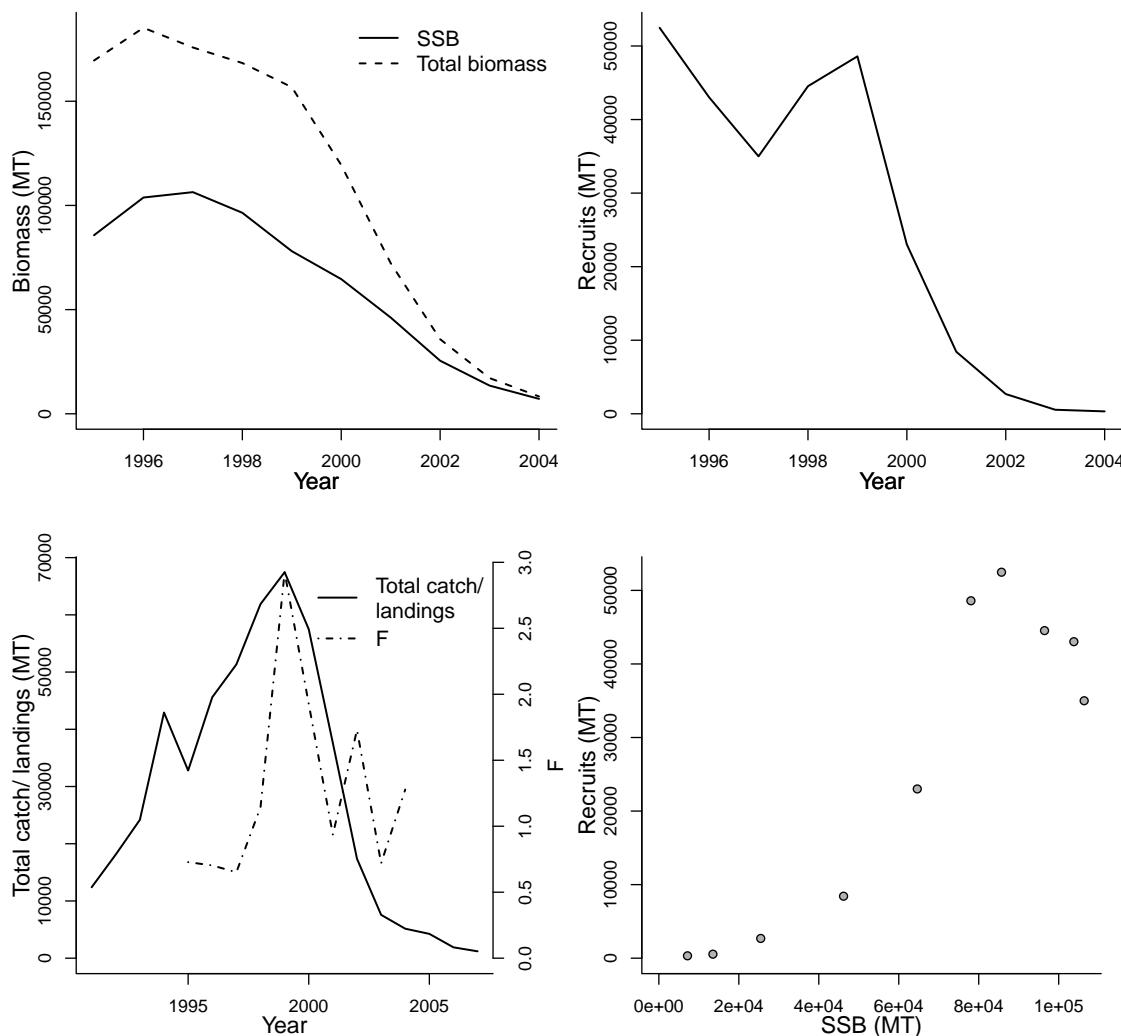
## General assessment details.

Detail	Value
Management body	Iran
Assessment group	Caspian Sea Ecology Research Center
Assessment authors	Hasan Fazli
Assessment method	Age-aggregated surplus production model
Publication year	2009
Timeseries span	1991-2007
Document	JENSEN-ANCHOVYKILKACS-2007.pdf (pdf in database)
Recorder	JENSEN
Date entered	2011-01-14
Date last loaded	2011-01-14
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
-95 - Caspian Sea	na	na
<hr/>		
Parameter	Value	Units
REC-AGE-yr	0.18	yr
A50-yr	2.2	yr
M-1/T	0.473	1/T
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units
MSY-MT (TB)	44652	MT

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1995	1995	1995	1995
Maximum year	2004	2004	2004	2004
Time series minimum	7161.1	325.9	0.651	8324.8
Time series maximum	106374.9	52472.1	2.925	185249.4
Units	MT	MT	1/yr	MT



# Assessment of Southeast Australia bight redfish (*Centroberyx gerrardi*)

Assessment ID: CSIRO-BIGHTREDSE-1958-2007-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/100>

Area ID: Australia-AFMA-SE

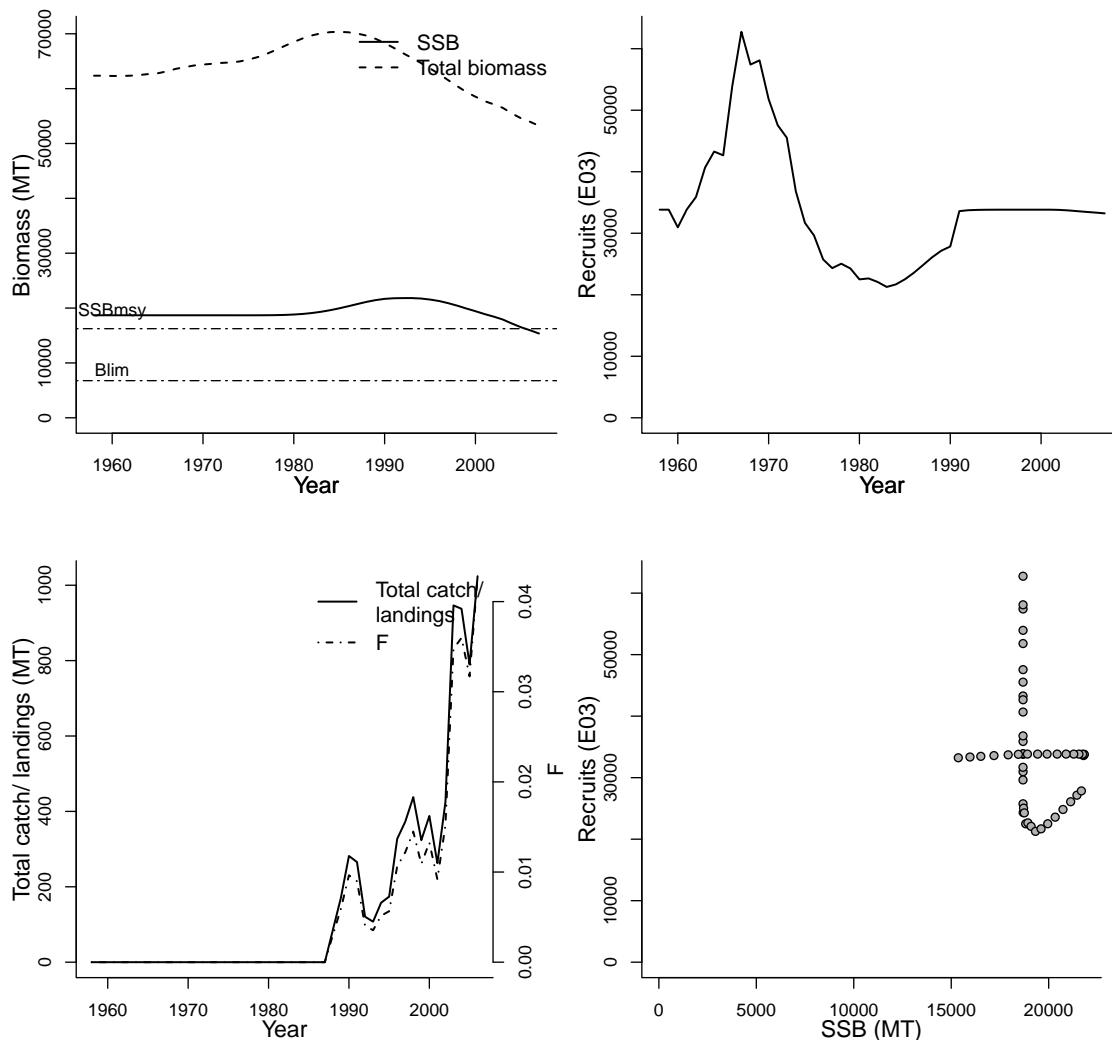
General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Klaer, Neil
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1958-2007
Document	BIGHTREDDEEPFLATSE.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-06-11

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

primary LME			secondary LME	tertiary LME	
43 - Southwest Australian Shelf			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	0	sex			
REC-AGE-yr	0	yr	Parameter	Value	Units
TB-AGE-yr	0	yr	Blim-MT (TB)	6766.72	MT
L50-cm	25	cm	SSB <sub>m</sub> sy-MT (SSB)	16240.128	MT
M-1/yr	0.1	1/yr	<i>SSB</i> <sub>2007</sub> / <i>SSB</i> <sub><i>m</i>sy</sub>	0.946	
SSB-AGE-yr					
F-AGE-yr					
M					
A50-yr					

	Time series minima and maxima				
	SSB	R	F	TB	Catch
Minimum year	1958	1958	1958	1958	1958
Maximum year	2007	2007	2006	2007	2006
Time series minimum	15362.4	21270.1	0	53216.3	0
Time series maximum	21821.5	62750.4	0.0428162	70359.9	1023.91
Units	MT	E03	ratio	MT	MT



# Assessment of Northern Australia brown tiger shrimp (*Penaeus esculentus*)

Assessment ID:CSIRO-BTSHRIMPNAUST-1970-2006-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/95>

Area ID: Australia-AFMA-NAUST

## General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Dichmont, Cathy
Assessment method	Delay difference model
Publication year	2007
Timeseries span	1970-2006
Document	NORTHPRAWNS.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-14
QA/QC complete	YES
Date approved	2009-06-11

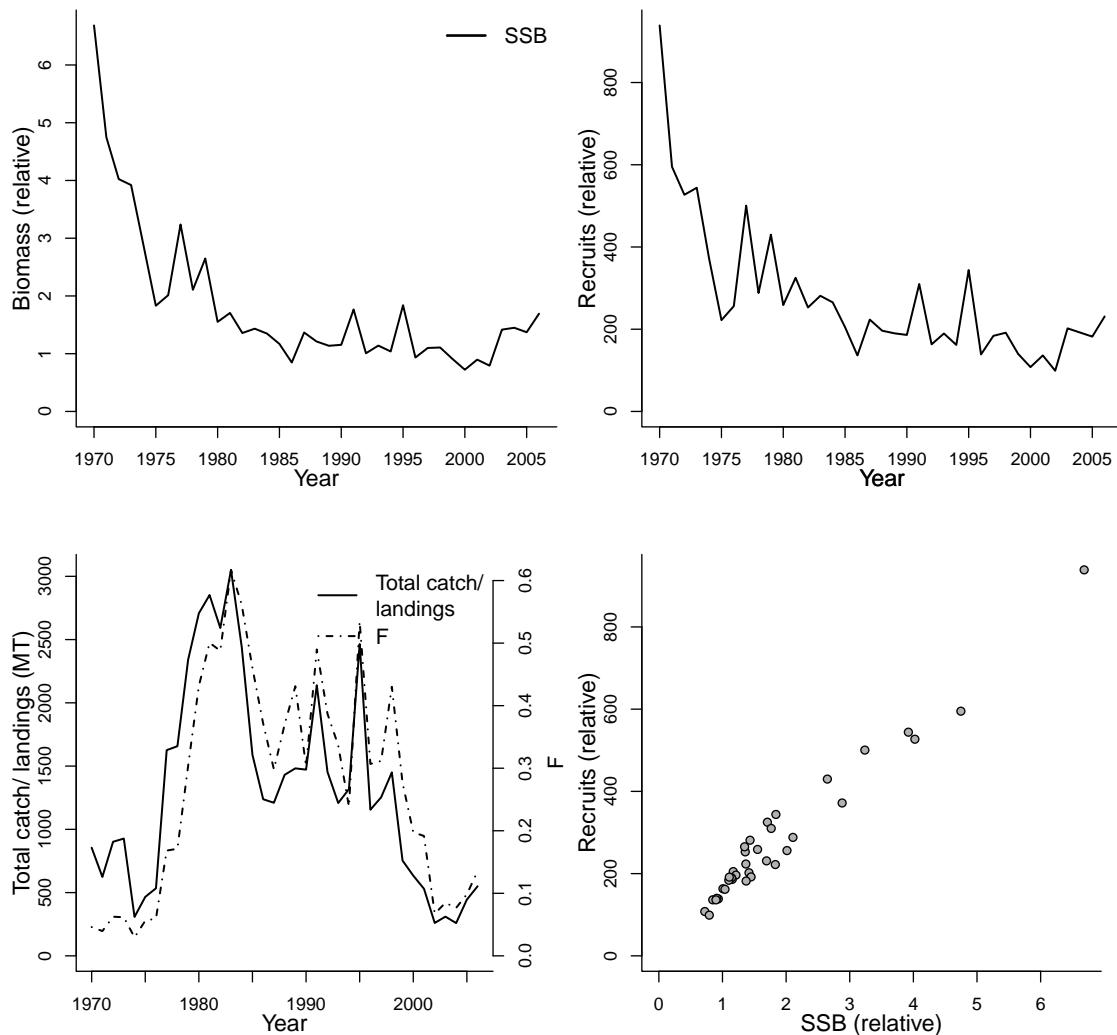
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
39 - North Australian Shelf	na	na
<hr/>		
Parameter	Value	Units
L50-cm	3	cm
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		

Parameter	Value	Units
Reference points		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1970	1970		1970
Maximum year	2006	2006	2006		2006
Time series minimum	0.72243	98.99525	0.0295093220851858		259
Time series maximum	6.6843	938.7785	0.61709282583037		3051
Units	relative	relative	1/yr		MT



# Assessment of Southeast Australia deepwater flathead (*Platycephalus conatus*)

Assessment ID:CSIRO-DEEPFLATHEADSE-1978-2007-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/99>

Area ID: Australia-AFMA-SE

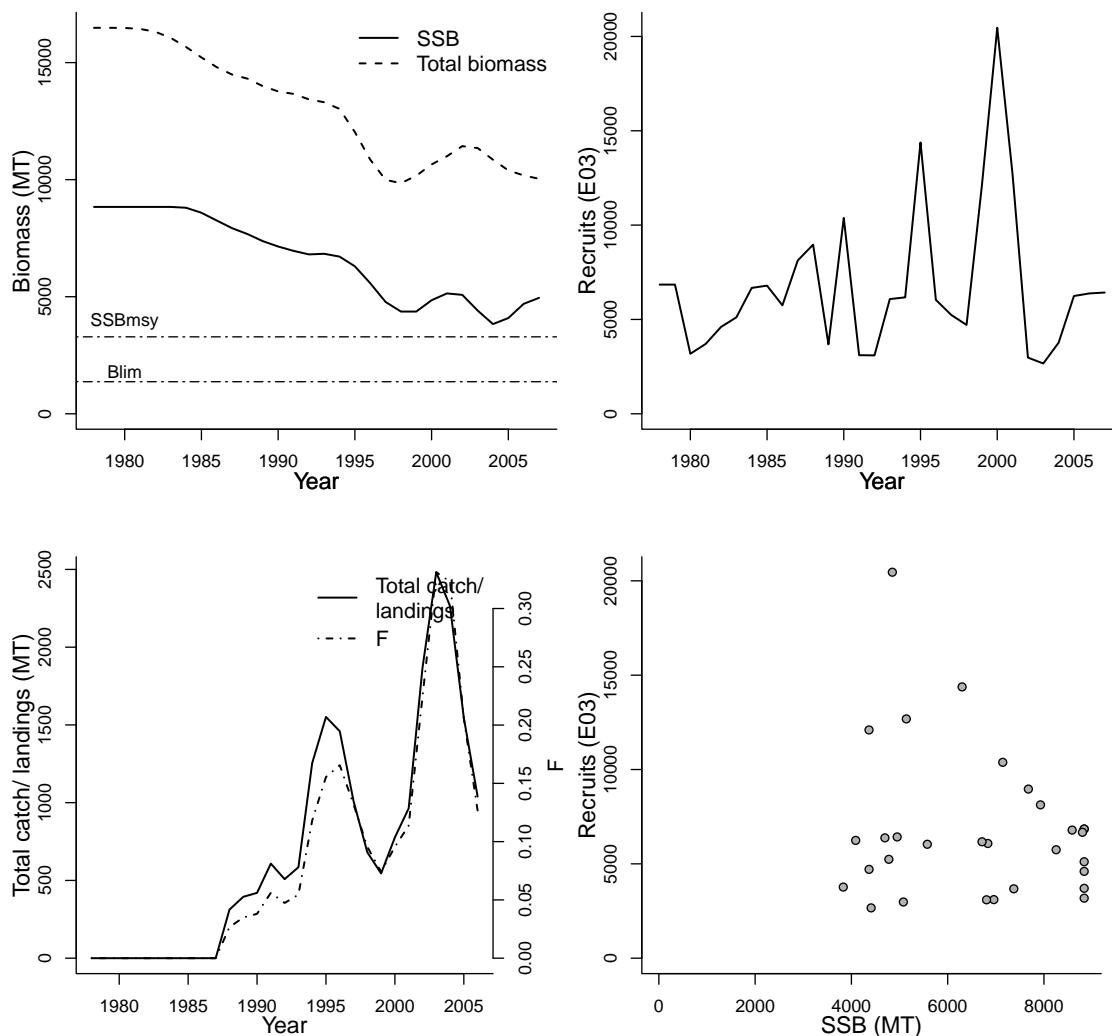
General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Klaer, Neil
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1978-2007
Document	BIGHTREDDEEPFLATSE.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-06-11

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

primary LME			secondary LME	tertiary LME	
43 - Southwest Australian Shelf			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	0	sex	Parameter	Value	Units
REC-AGE-yr	0	yr	Blim-MT (TB)	1369.38	MT
TB-AGE-yr	0	yr	SSBmsy-MT (SSB)	3286.512	MT
A50-yr	5	yr	BH-h-dimless	0.85	dimless
L50-cm	40	cm	$SSB_{2007}/SSB_{msy}$	1.506	
M-1/T	3.2494	1/T			
M-1/yr	0.2	1/yr			
SSB-AGE-yr					
F-AGE-yr					
M					

Time series minima and maxima				
	SSB	R	F	Catch
Minimum year	1978	1978	1978	1978
Maximum year	2007	2007	2006	2006
Time series minimum	3831.04	2666.02	0	9848.87
Time series maximum	8835.63	20457.5	0.331154	16486
Units	MT	E03	ratio	MT



# Assessment of Southeast Australia common gemfish (*Rexea solandri*)

Assessment ID: CSIRO-GEMFISHSE-1966-2007-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/88>

Area ID: Australia-AFMA-SE

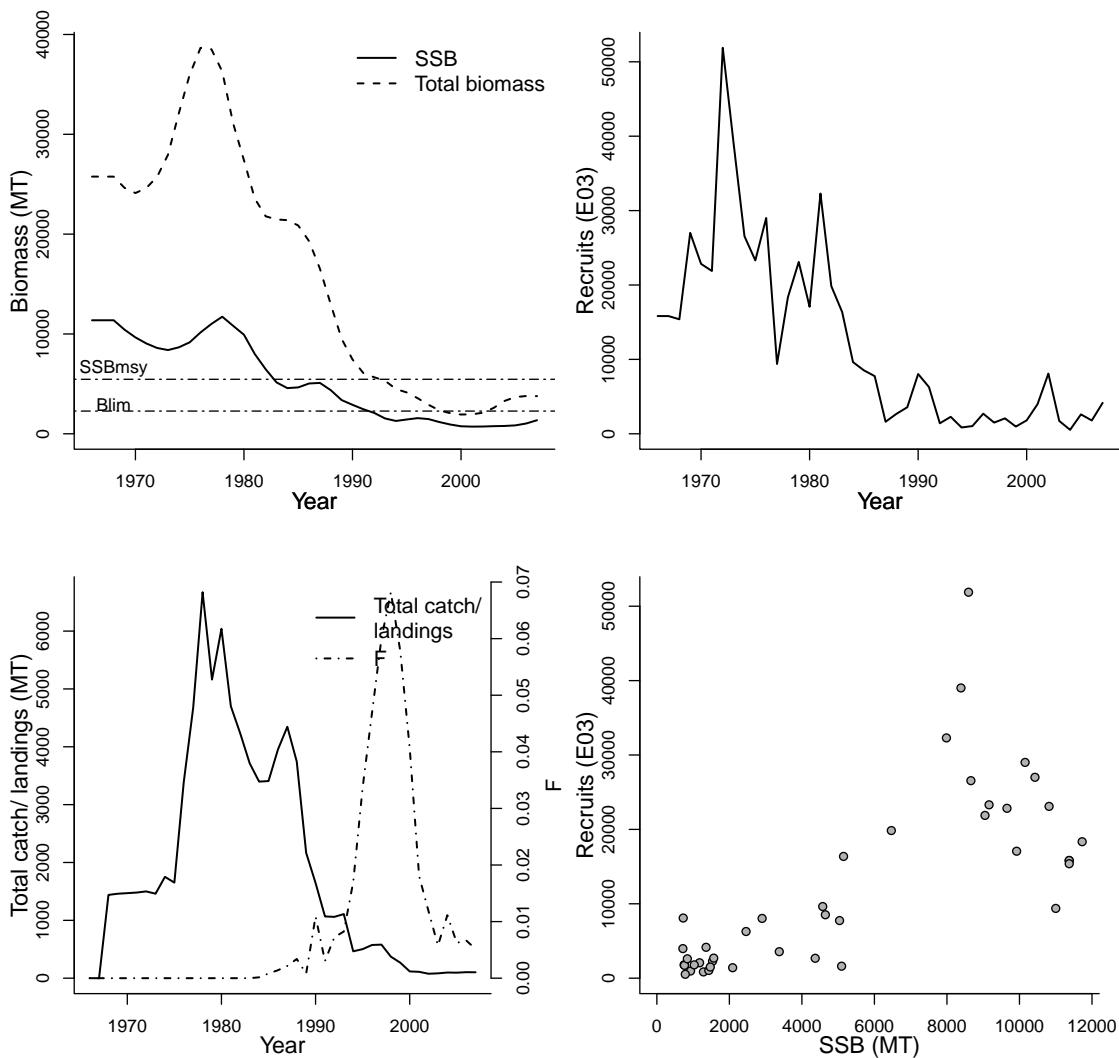
General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Little, Richard L.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1966-2007
Document Recorder	GEMFISHSE.pdf (pdf not in database)
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-04-22

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

primary LME			secondary LME	tertiary LME	
42 - Southeast Australian Shelf			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	3	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	Blim-MT (TB)	2274.3	MT
TB-AGE-yr	0	yr	SSB <sub>m</sub> sy-MT (SSB)	5458.32	MT
A50-yr	3	yr	BH-h-dimless	0.75	dimless
L50-cm	70	cm	$SSB_{2007}/SSB_{msy}$	0.249	
REC-AGE					
F-AGE-yr	M				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1966	1966	1966	1966	1966
Maximum year	2007	2007	2007	2007	2007
Time series minimum	717.45	527.877	0	1929.18	0
Time series maximum	11729.3	51881.3	0.068202	38665.4	6672
Units	MT	E03		MT	MT



# Assessment of Northern Australia grooved tiger prawn (*Penaeus semisulcatus*)

Assessment ID: CSIRO-GTPRAWNNAUST-1970-2006-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/102>

Area ID: Australia-AFMA-NAUST

## General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Dichmont, Cathy
Assessment method	Delay difference model
Publication year	2007
Timeseries span	1970-2006
Document	NORTHPRawns.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-14
QA/QC complete	YES
Date approved	2009-06-11

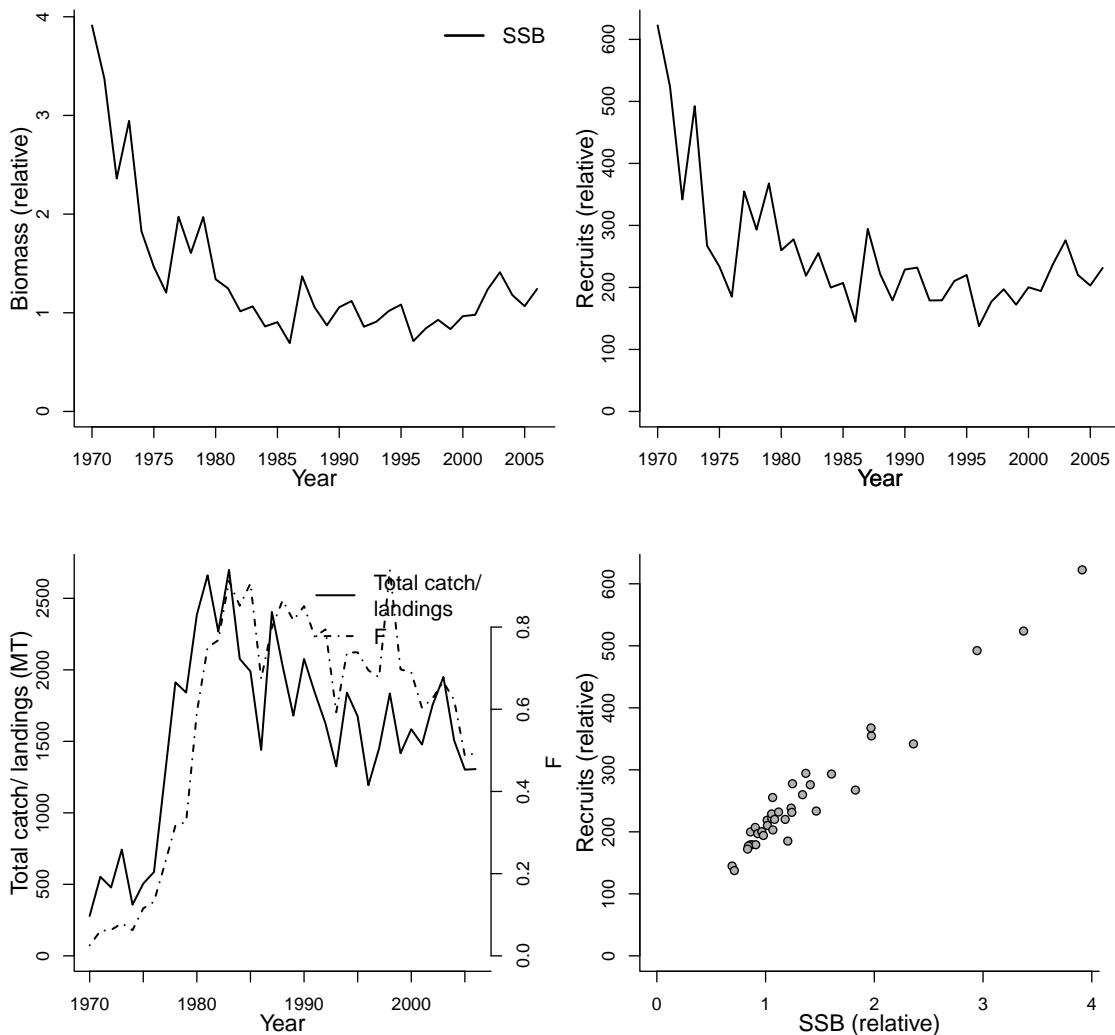
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
39 - North Australian Shelf	na	na
<hr/>		
Parameter	Value	Units
L50-cm	3	cm
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		

Parameter	Value	Units
Reference points		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1970	1970		1970
Maximum year	2006	2006	2006		2006
Time series minimum	0.69192	137.56821	0.025675770011084		279
Time series maximum	3.91168	622.4707	0.939208000347344		2699
Units	relative	relative	1/yr		MT



# Assessment of Southeast Australia jackass morwong (*Nemadactylus macropterus*)

Assessment ID:CSIRO-MORWONGSE-1913-2007-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/90>

Area ID: Australia-AFMA-SE

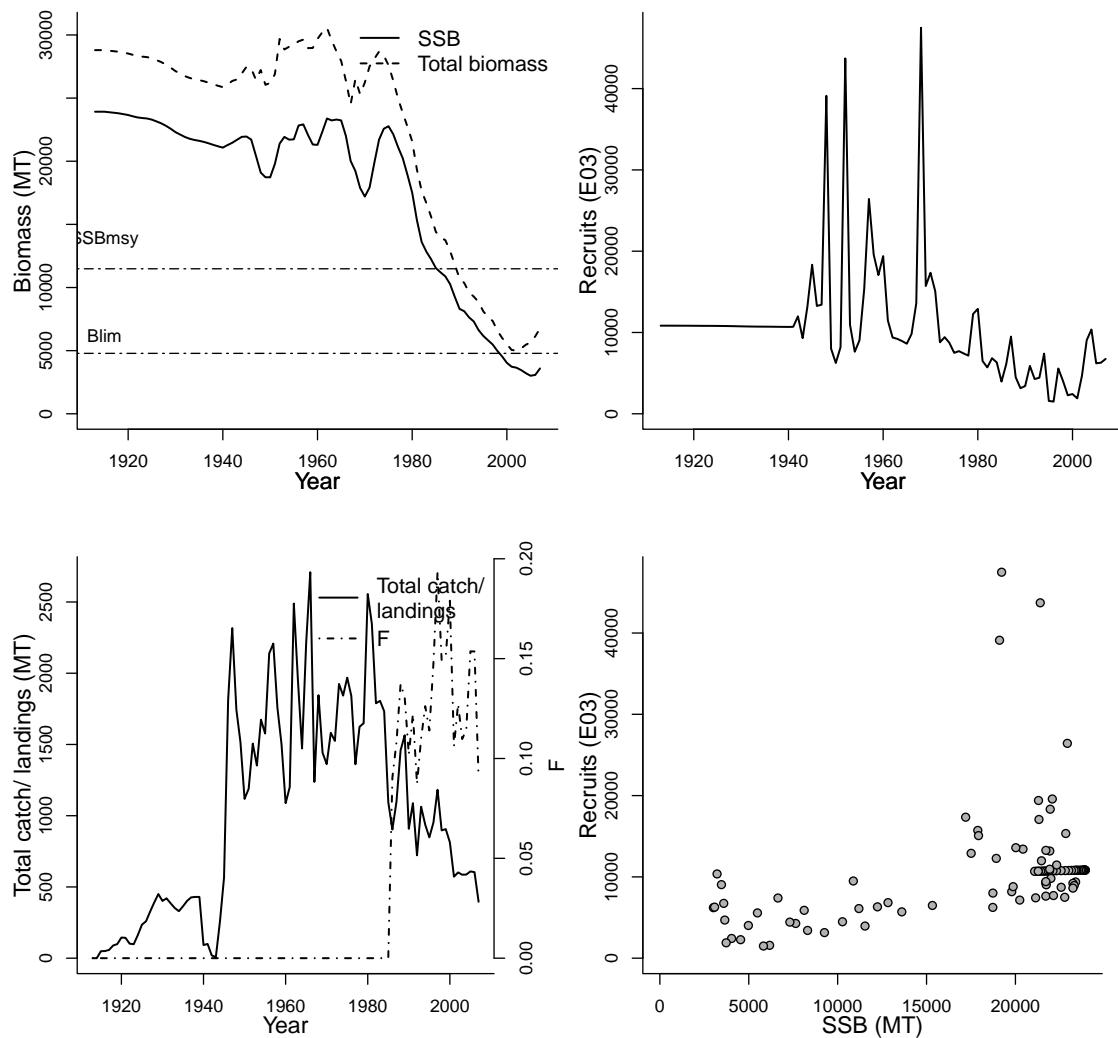
General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Wayte, Sally
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1913-2007
Document	MORWONGSE.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-06-11

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

primary LME	secondary LME	tertiary LME
42 - Southeast Australian Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-SEX-sex	0	sex
REC-AGE-yr	0	yr
TB-AGE-yr	0	yr
A50-yr	3	yr
L50-cm	24.5	cm
M-1/yr	0.15	1/yr
SSB-AGE-yr		
F-AGE-yr		
M		
<hr/>		
Reference points		
Parameter	Value	Units
Blim-MT (TB)	4784.42	MT
SSB <sub>msy</sub> -MT (SSB)	11482.608	MT
BH-h-dimless	0.7	dimless
SSB <sub>2007</sub> /SSB <sub>msy</sub>	0.313	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1913	1913	1913	1913	1913
Maximum year	2007	2007	2007	2007	2007
Time series minimum	3011.69	1496.92	0	5002.88	0
Time series maximum	23922.1	47480.1	0.193278	30566.5	2709
Units	MT	E03		MT	MT



# Assessment of Southeast Australia ling (*Genypterus blacodes*)

Assessment ID: CSIRO-NZLINGESE-1968-2007-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/89>

Area ID: Australia-AFMA-SE

General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Taylor, Bruce
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1968-2007
Document	NZLINGSE.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-06-11

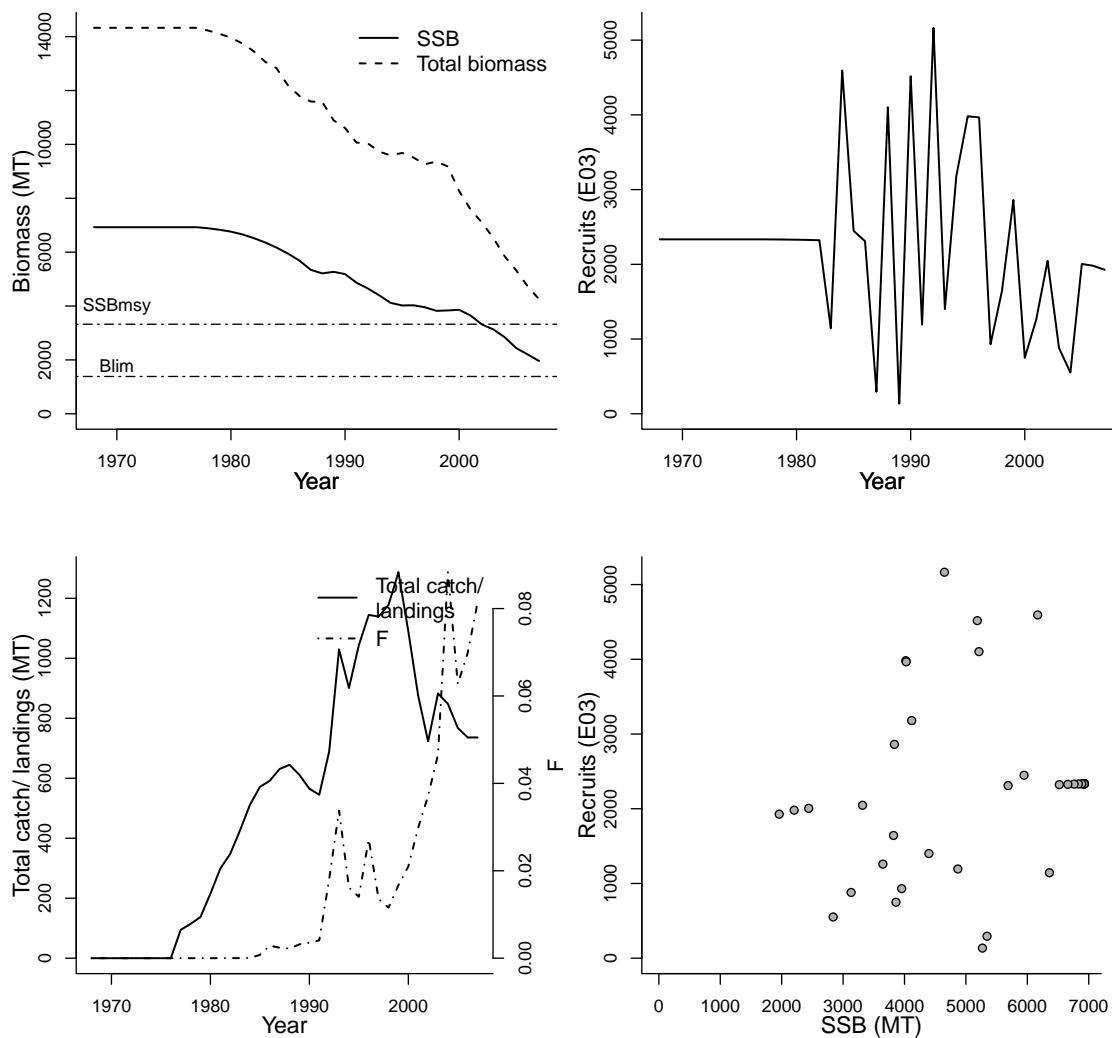
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
42 - Southeast Australian Shelf	na	na
Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
TB-AGE-yr	0	yr
A50-yr	3	yr
L50-cm	30	cm
M-1/yr	0.2	1/yr
SSB-AGE-yr		
F-AGE-yr		
M		

Parameter	Value	Units	Reference points	Parameter	Value	Units
SSB-SEX-sex	1	sex				
REC-AGE-yr	0	yr				
TB-AGE-yr	0	yr				
A50-yr	3	yr	Blim-MT (TB)	1385.2	MT	
L50-cm	30	cm	SSB <sub>m</sub> sy-MT (SSB)	3324.48	MT	
M-1/yr	0.2	1/yr	BH-h-dimless	0.75	dimless	
SSB-AGE-yr			SSB <sub>2007</sub> /SSB <sub>m</sub> sy	0.590		
F-AGE-yr						
M						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1968	1968	1968	1968
Maximum year	2007	2007	2007	2007
Time series minimum	1960.12	135.309	0	4255.74
Time series maximum	6926	5165.34	0.0883179	14328.6
Units	MT	E03		MT



# Assessment of Western half of Southeast Australia ling (*Genypterus blacodes*)

Assessment ID: CSIRO-NZLINGWSE-1968-2007-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/93>

Area ID: Australia-AFMA-WSE

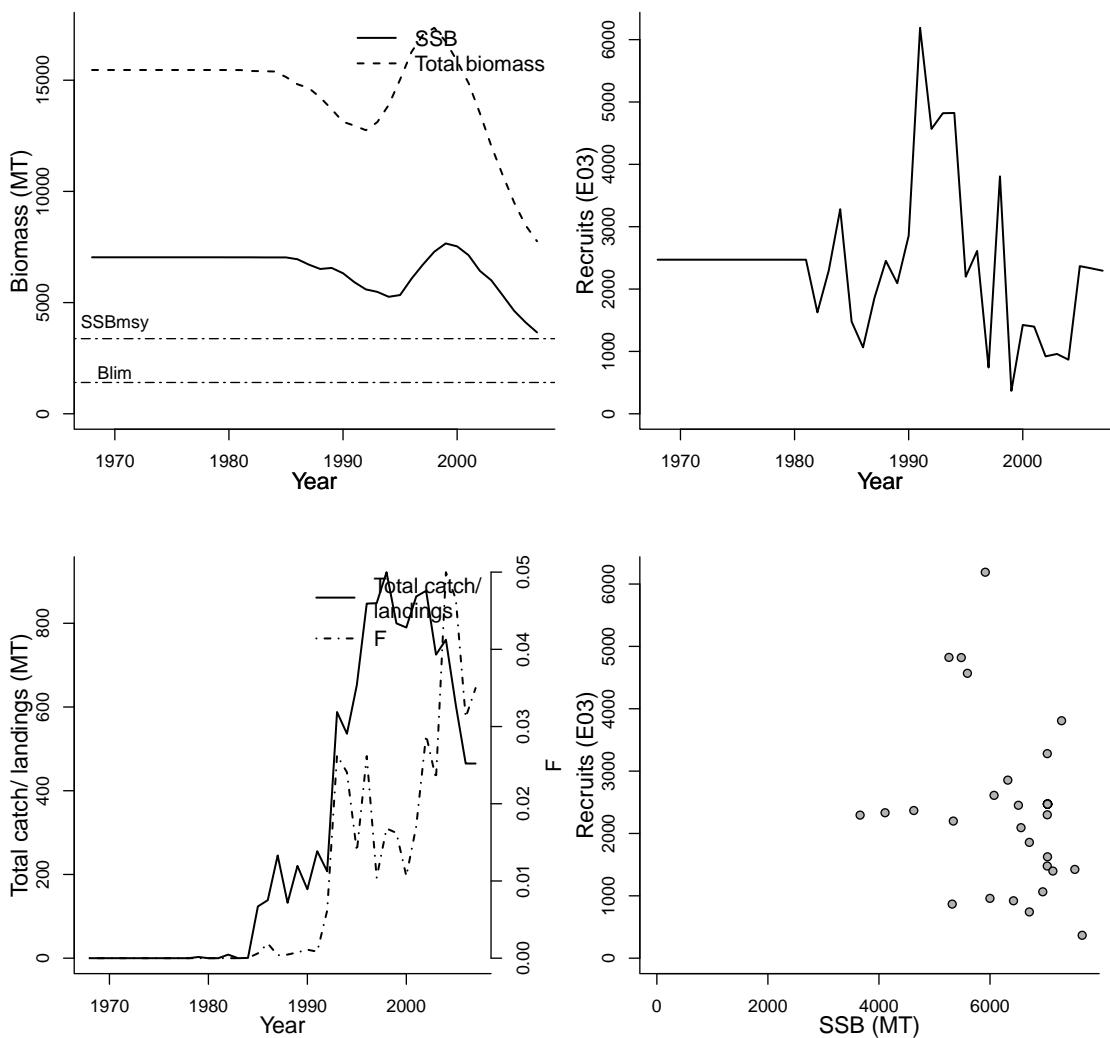
## General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Taylor, Bruce
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1968-2007
Document	NZLINGSE.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-06-11

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

primary LME	secondary LME	tertiary LME
43 - Southwest Australian Shelf	na	na
Parameter Value Units		
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
TB-AGE-yr	0	yr
A50-yr	3	yr
L50-cm	30	cm
M-1/yr	0.2	1/yr
SSB-AGE-yr		
F-AGE-yr		
M		
Reference points		
Parameter	Value	Units
Blim-MT (TB)	1407.318	MT
SSB <sub>msy</sub> -MT (SSB)	3377.5632	MT
BH-h-dimless	0.75	dimless
$SSB_{2007}/SSB_{msy}$	1.084	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1968	1968	1968	1968
Maximum year	2007	2007	2007	2007
Time series minimum	3660.27	367.481	0	7758.25
Time series maximum	7660.06	6189.74	0.0499884	17356.5
Units	MT	E03		MT



# Assessment of Cascade Plateau orange roughy (*Hoplostethus atlanticus*)

Assessment ID: CSIRO-OROUGHYCASCADE-1987-2006-FULTON  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/96>

Area ID: Australia-AFMA-CASCADE

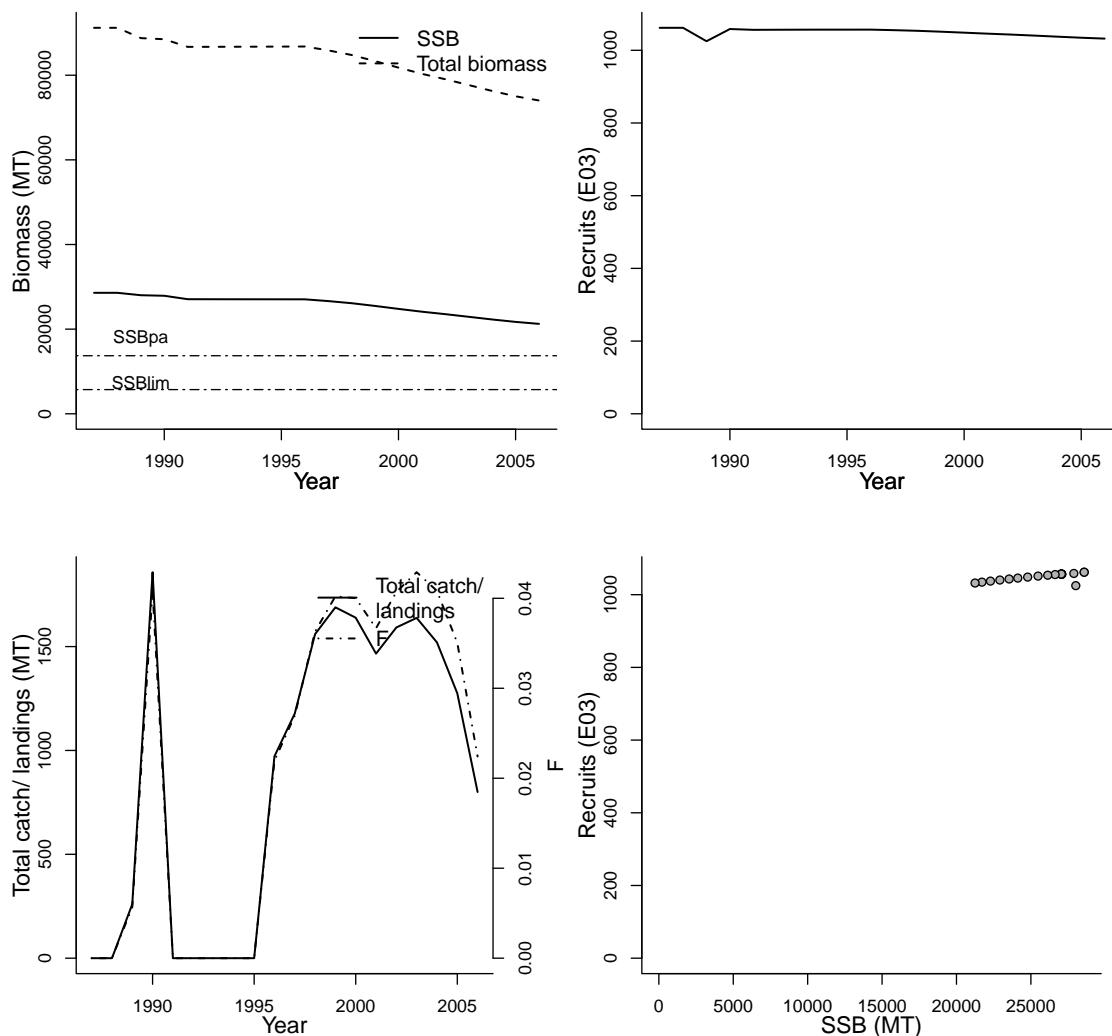
## General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Wayte, Sally
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1987-2006
Document	CSIRO-Cascade-Plateau-Stock-Assessment-2006.pdf (pdf in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-06-11

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

primary LME			secondary LME	tertiary LME
42 - Southeast Australian Shelf			na	na
Parameter	Value	Units	Reference points	
SSB-SEX-sex	1	sex	SSBlim-MT (SSB)	5716.3 MT
TB-AGE-yr	0	yr	SSBpa-MT (SSB)	13719.12 MT
A50-yr	32	yr	$SSB_{2006}/SSB_{lim}$	3.717
L50-cm	32	cm		
REC-AGE				
SSB-AGE-yr				
F-AGE-yr				
M				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1987	1987	1987	1987	1987
Maximum year	2006	2006	2006	2006	2006
Time series minimum	21246.8	1024.93	0	74023.6	0
Time series maximum	28581.5	1061.84	0.042899	91202.6	1858
Units	MT	E03	ratio	MT	MT



# Assessment of Southeast Australia orange roughy (*Hoplostethus atlanticus*)

Assessment ID: CSIRO-OROUGHSE-1978-2007-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/98>

Area ID: Australia-AFMA-SE

General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Wayte, Sally
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1978-2007
Document	OROUGHSE.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-04-21

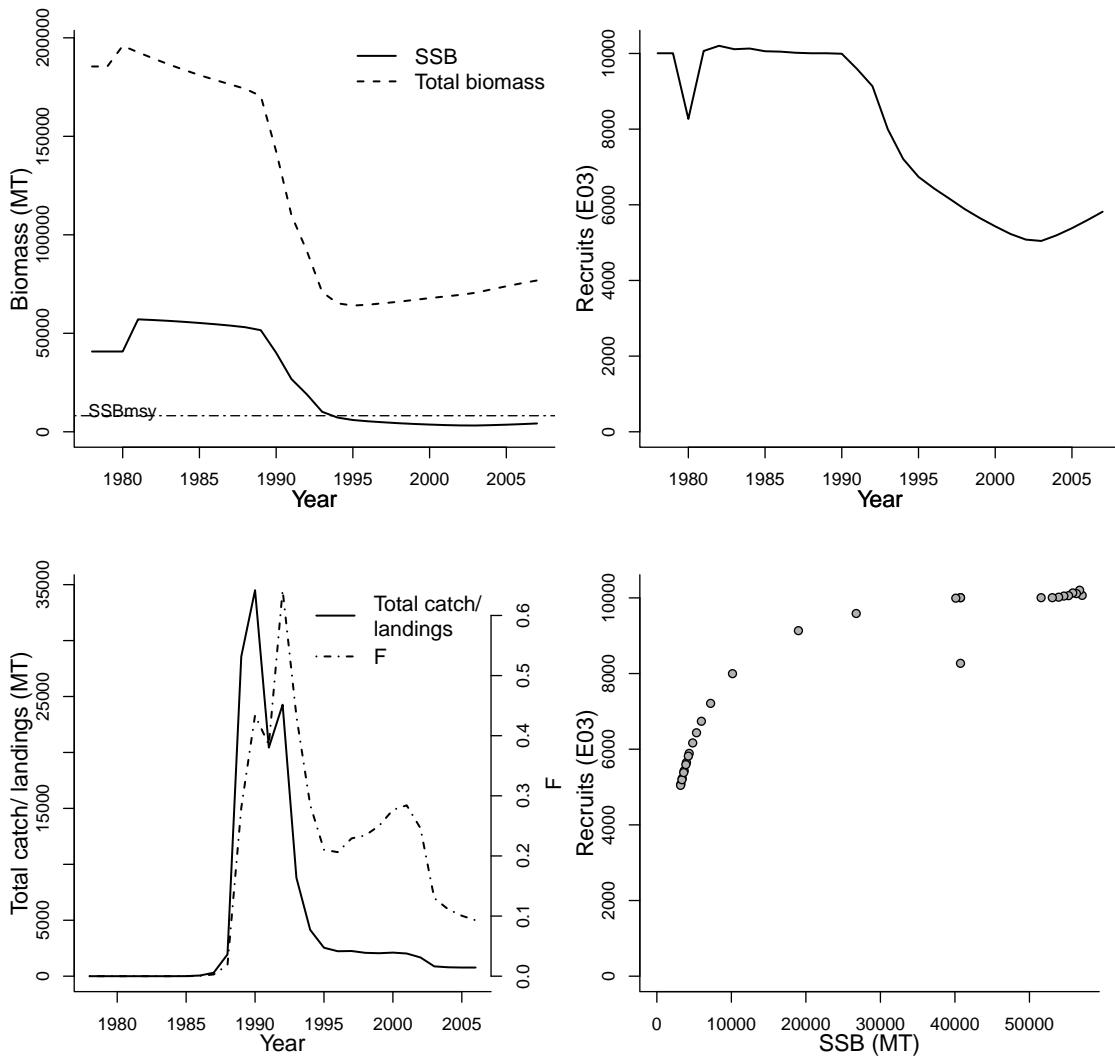
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
42 - Southeast Australian Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	2	yr
SSB-SEX-sex	0	sex
TB-AGE-yr	0	yr
A50-yr	32	yr
L50-cm	32	cm
REC-AGE		
F-AGE-yr	M	

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Reference points	Parameter	Value	Units
SSB <sub>msy</sub> -MT (SSB)	SSB <sub>msy</sub> -MT (SSB)	8149.26	MT
Bpa-MT (TB)	Bpa-MT (TB)	19558.224	MT
	$SSB_{2007}/SSB_{msy}$	0.519	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1978	1978	1978
Maximum year	2007	2007	2006	2007
Time series minimum	3182.91	5044.64	0	64072.5
Time series maximum	57075.7	10202.8	0.642012	195951
Units	MT	E03	ratio	MT



# Assessment of Macquarie Island patagonian toothfish (*Dissostichus eleginoides*)

Assessment ID:CSIRO-PTOOTHFISHMI-1975-2010-FAY

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/472>

Area ID: Australia-AFMA-MI

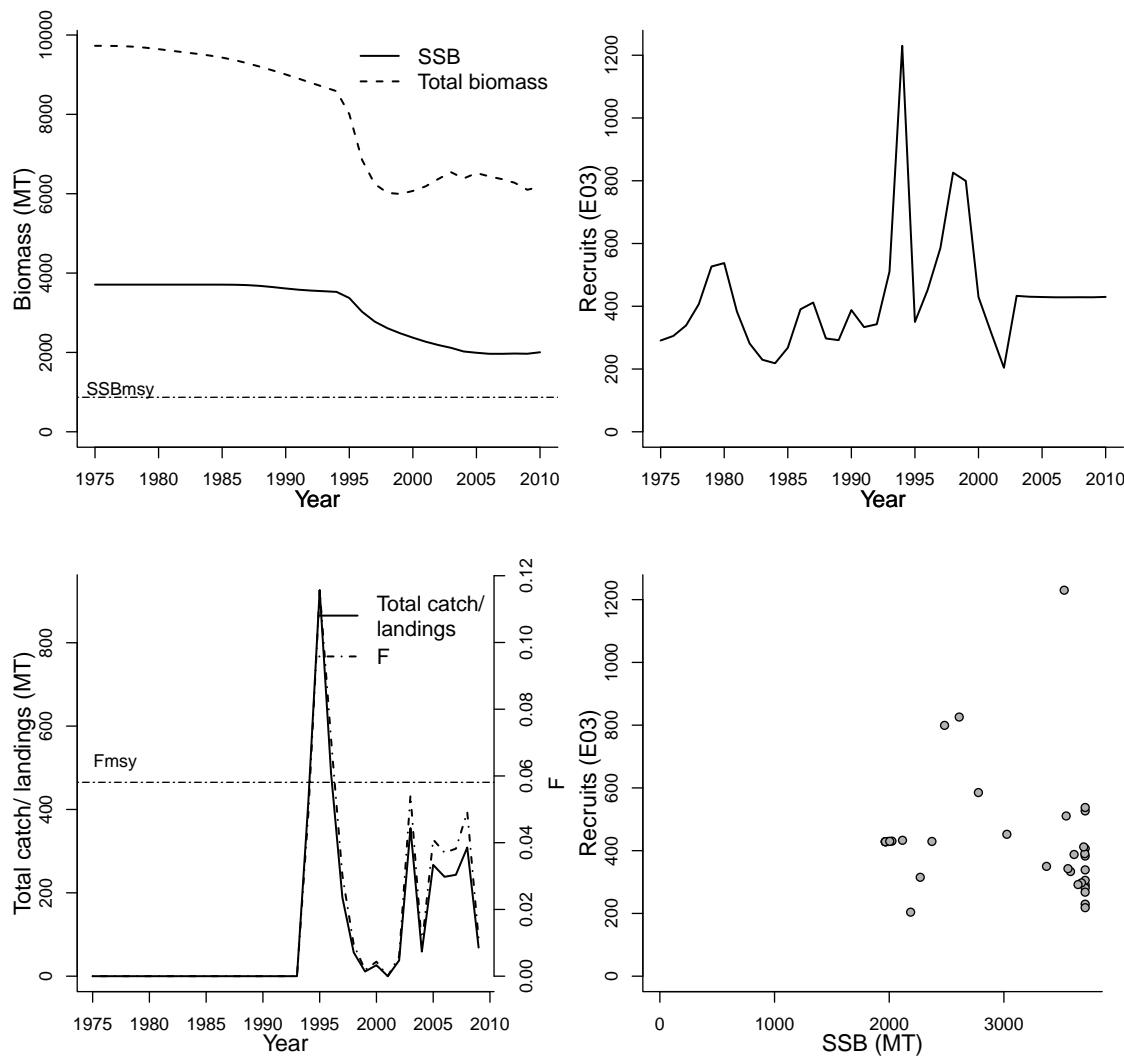
General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Fay, G.
Assessment method	Stock Synthesis v3.0 model
Publication year	2010
Timeseries span	1975-2010
Document	FAY_PTOOTHFISHMACCA_2010.pdf (pdf in database)
Recorder	FAY
Date entered	2011-01-18
Date last loaded	2011-02-24
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
-96 - Subantarctic High Seas			na	na
Parameter	Value	Units	Parameter	Reference points
SSB-AGE-yr	14	yr	Fmsy-1/yr (F)	0.0580997 1/yr
SSB-SEX-sex	1	sex	Fref-1/yr	0.0258653 1/yr
REC-AGE-yr	0	yr	Fcurrent-1/yr	0.0112664 1/yr
TB-AGE-yr	1+	yr	NATMORT-1/yr (M)	0.13 1/yr
L50-cm	89	cm	SSBmsy-MT (SSB)	869.707 MT
M-1/yr	0.13	1/yr	MSY-MT (TB)	184.369 MT
NATMORT-1/yr	0.13	1/yr	BH-h-dimless	0.75 dimless
F-AGE-yr			$F_{2009}/F_{msy}$	0.194
M			$SSB_{2010}/SSB_{msy}$	2.305
A50-yr				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1975	1975	1975	1975
Maximum year	2010	2010	2009	2010	2009
Time series minimum	1964.96	204.02	0	5994.16	0
Time series maximum	3708.59	1230.06	0.115663	9727.9	926.048767
Units	MT	E03	1/yr	MT	MT



# Assessment of Southeast Australia silverfish (*Seriolella punctata*)

Assessment ID: CSIRO-SILVERFISHSE-1978-2006-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/91>

Area ID: Australia-AFMA-SE

General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Tuck, Geoff
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1978-2006
Document Recorder	SILVERFISHSE.pdf (pdf not in database)
Date entered	FULTON
Date last loaded	2008-04-30
QA/QC complete	2010-06-15
Date approved	YES
	2009-06-11

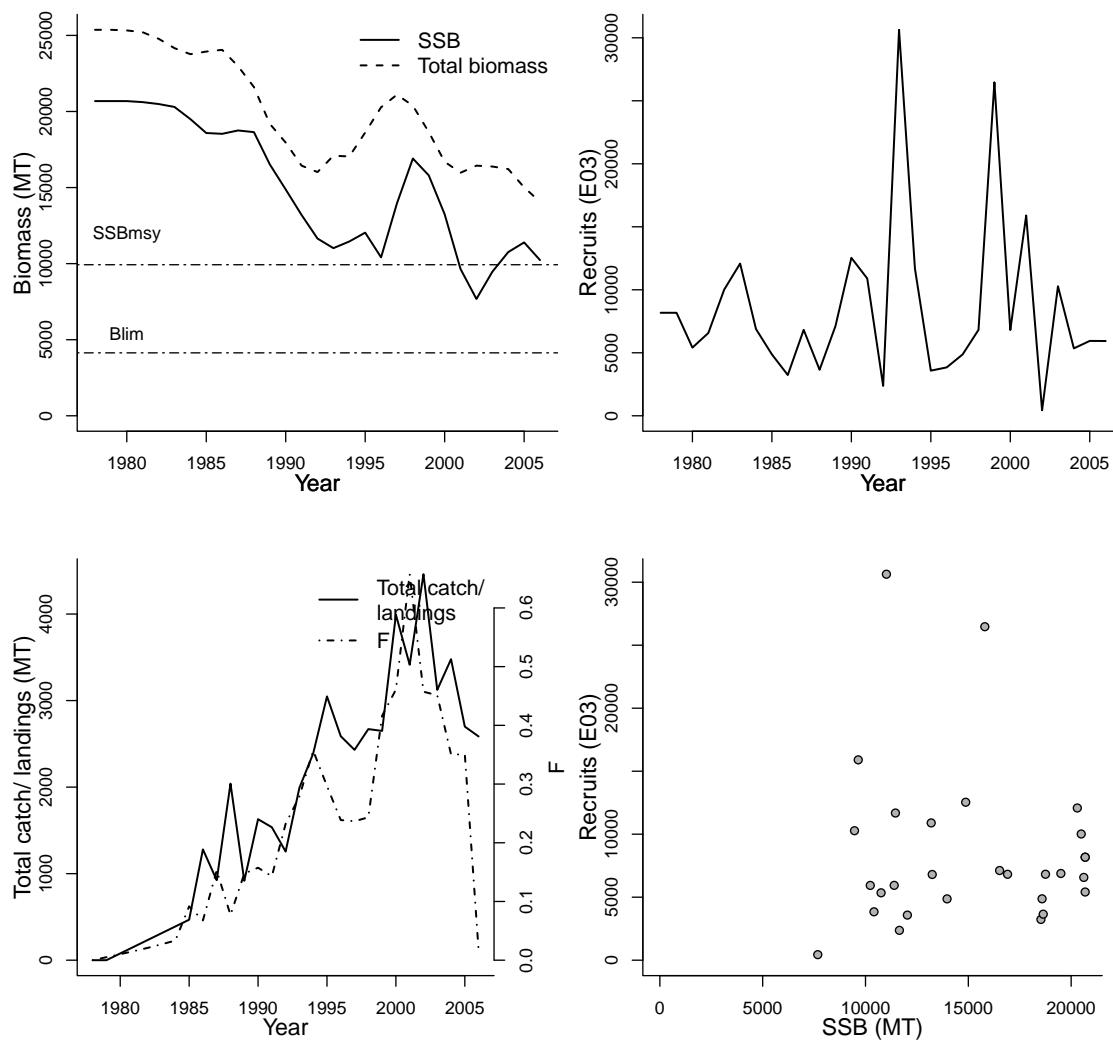
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
42 - Southeast Australian Shelf	na	na
Parameter Value Units		
SSB-SEX-sex	0	sex
REC-AGE-yr	0	yr
TB-AGE-yr	0	yr
A50-yr	3	yr
L50-cm	37	cm
M-1/yr	0.25	1/yr
SSB-AGE-yr		
F-AGE-yr		
M		

Parameter	Value	Units	Reference points	Parameter	Value	Units
SSB-SEX-sex	0	sex				
REC-AGE-yr	0	yr				
TB-AGE-yr	0	yr				
A50-yr	3	yr	Blim-MT (TB)	4136.44	MT	
L50-cm	37	cm	SSB <sub>msy</sub> -MT (SSB)	9927.456	MT	
M-1/yr	0.25	1/yr	BH-h-dimless	0.75	dimless	
SSB-AGE-yr			SSB <sub>2006</sub> /SSB <sub>msy</sub>	1.031		
F-AGE-yr						
M						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1978	1978	1978
Maximum year	2006	2006	2006	2006
Time series minimum	7678.11	439.351	0	14062.8
Time series maximum	20682.2	30634.4	0.65743	25368.6
Units	MT	E03	ratio	MT
				MT



# Assessment of Southeast Australia school whiting (*Sillago flindersi*)

Assessment ID:CSIRO-SWHITSE-1945-2007-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/94>

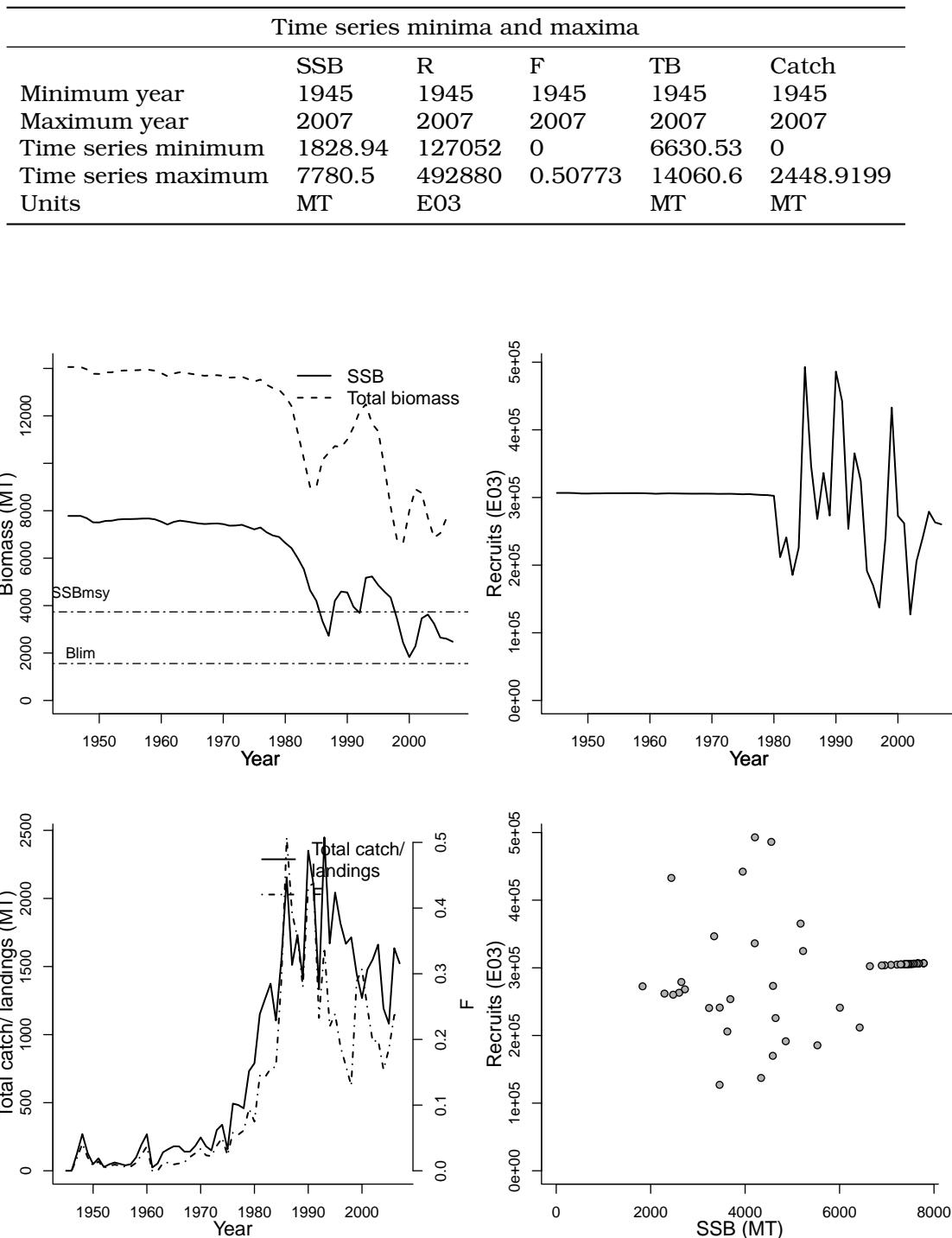
Area ID: Australia-AFMA-SE

General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Day, Jemery
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1945-2007
Document	SWHITSE.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-06-11

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

primary LME	secondary LME	tertiary LME
42 - Southeast Australian Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-SEX-sex	0	sex
REC-AGE-yr	0	yr
TB-AGE-yr	0	yr
A50-yr	3	yr
L50-cm	16	cm
M-1/yr	0.5	1/yr
SSB-AGE-yr		
F-AGE-yr		
M		
<hr/>		
Reference points		
Parameter	Value	Units
Blim-MT (TB)	1555.962	MT
SSB <sub>msy</sub> -MT (SSB)	3734.3088	MT
BH-h-dimless	0.95	dimless
<i>SSB</i> <sub>2007</sub> / <i>SSB</i> <sub>msy</sub>	0.663	



# Assessment of Southeast Australia tiger flathead (*Neoplatycephalus richardsoni*)

Assessment ID:CSIRO-TIGERFLATSE-1913-2006-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/92>

Area ID: Australia-AFMA-SE

General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Klaer, Neil
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1913-2006
Document Recorder	TIGERFLATSE.pdf (pdf not in database) FULTON
Date entered	2008-04-30
Date last loaded	2010-07-15
QA/QC complete	YES
Date approved	2009-06-11

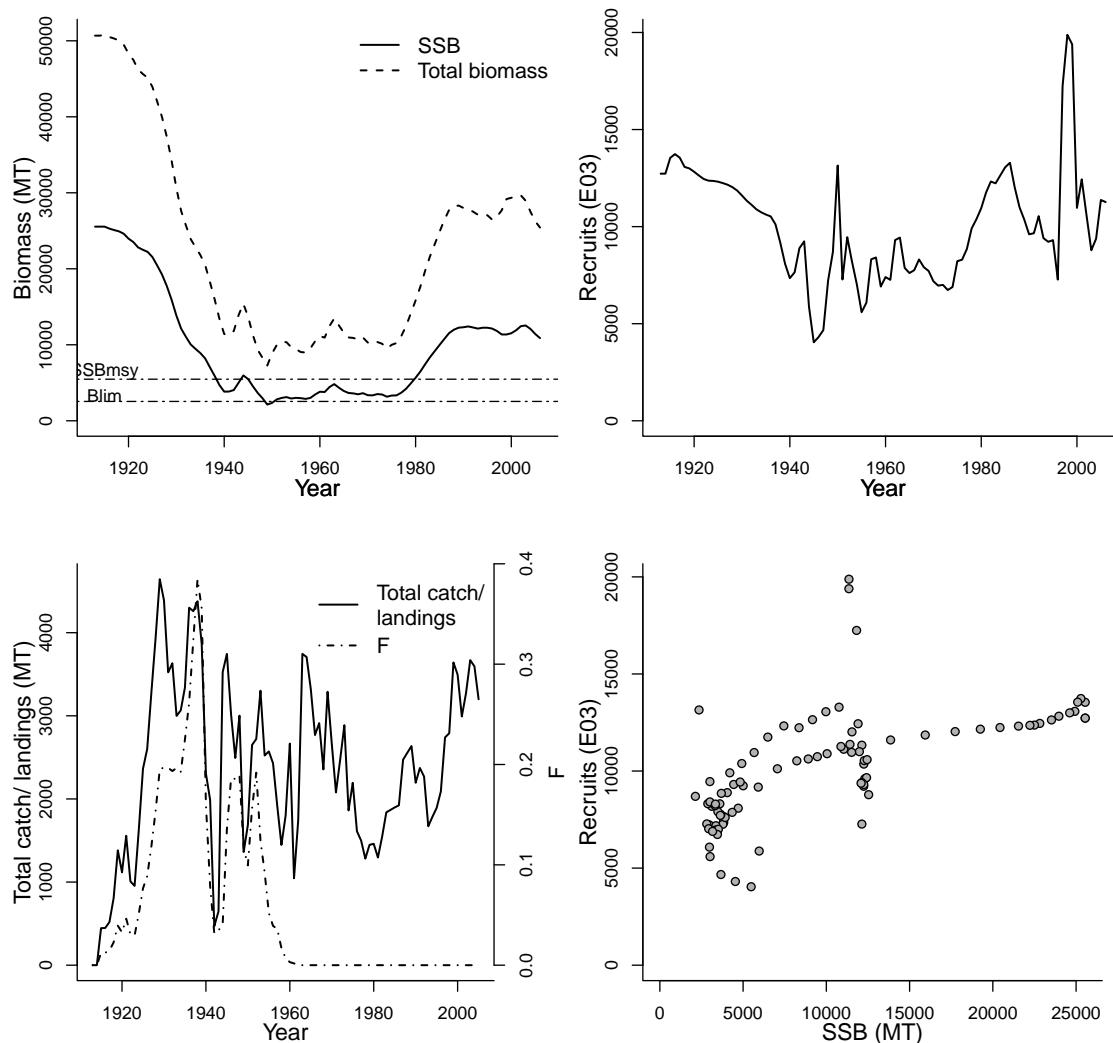
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
42 - Southeast Australian Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
TB-AGE-yr	0	yr
A50-yr	4	yr
L50-cm	30	cm
M-1/T	3.31	1/T
M-1/yr	0.2	1/yr
SSB-AGE-yr		
F-AGE-yr		
M		

Reference points		
Parameter	Value	Units
Blim-MT (TB)	2545.52	MT
SSB <sub>msy</sub> -MT (SSB)	5472.868	MT
BH-h-dimless	0.85	dimless
SSB <sub>2006</sub> /SSB <sub>msy</sub>	1.988	

	Time series minima and maxima				
	SSB	R	F	TB	Catch
Minimum year	1913	1913	1913	1913	1913
Maximum year	2006	2006	2005	2006	2005
Time series minimum	2133.08	4041.4	0	7266.84	0
Time series maximum	25546.5	19879.9	0.384656	50789.9	4643.5
Units	MT	E03		MT	MT



# Assessment of Eastern half of Southeast Australia blue warehou (*Seriolella brama*)

Assessment ID:CSIRO-WAREHOUSE-1984-2006-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/101>

Area ID: Australia-AFMA-ESE

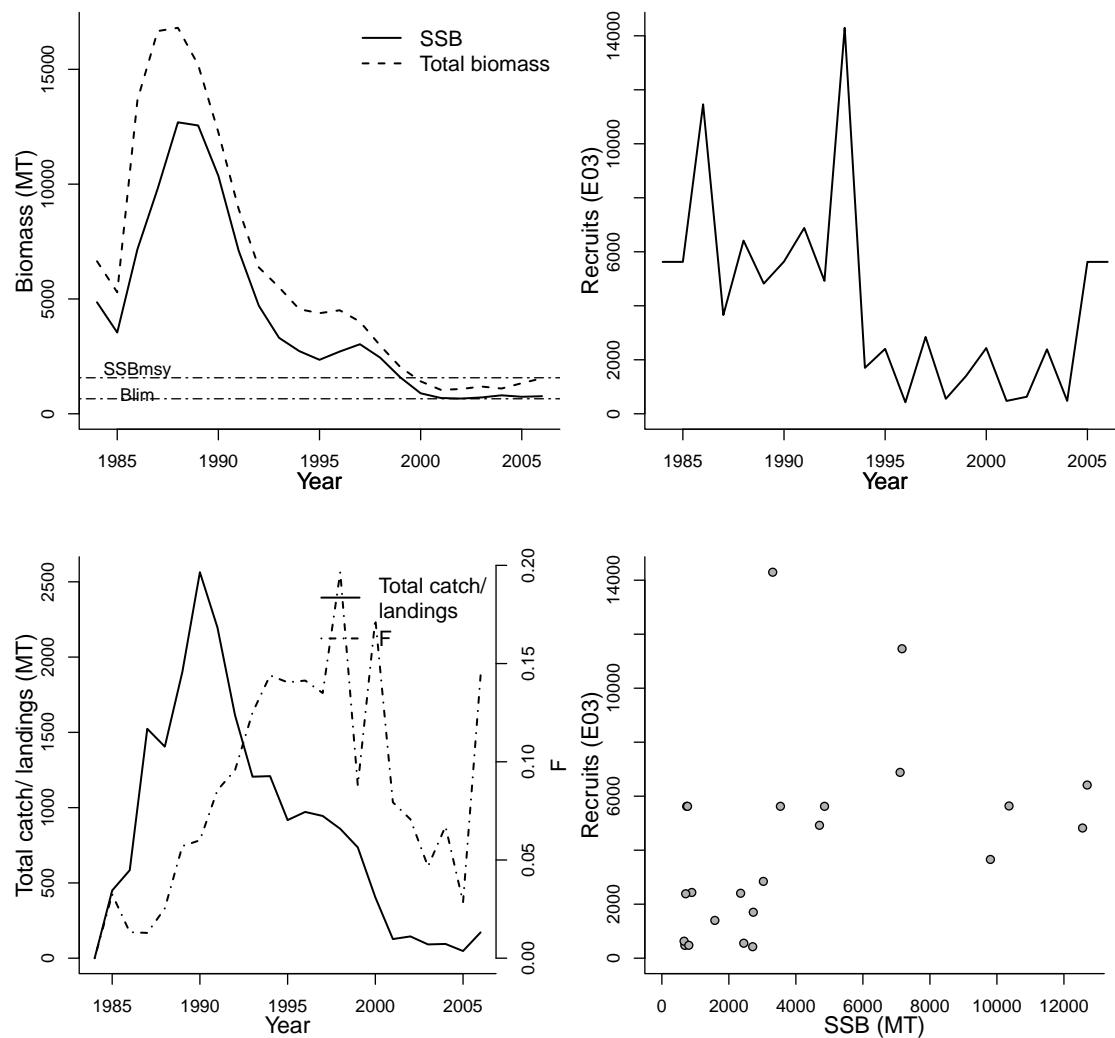
General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Punt, Andre
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1984-2006
Document	WAREHOUSE.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-06-11

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

primary LME			secondary LME	tertiary LME
42 - Southeast Australian Shelf			na	na
Parameter	Value	Units		
SSB-SEX-sex	1	sex	Reference points	
REC-AGE-yr	0	yr	Parameter	Value
TB-AGE-yr	0	yr		Units
A50-yr	3	yr	Blim-MT (TB)	653.4
L50-cm	33.4	cm	SSB <sub>msy</sub> -MT (SSB)	1568.16
SSB-AGE-yr			SSB <sub>2006</sub> /SSB <sub>msy</sub>	0.488
F-AGE-yr				
M				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1984	1984	1984	1984
Maximum year	2006	2006	2006	2006
Time series minimum	662.813	425.674	0	1040.75
Time series maximum	12693.7	14295.7	0.196514	16808.9
Units	MT	E03		MT



# Assessment of Western half of Southeast Australia blue warehou (*Seriolella brama*)

Assessment ID:CSIRO-WAREHOUWSE-1984-2006-FULTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/97>

Area ID: Australia-AFMA-WSE

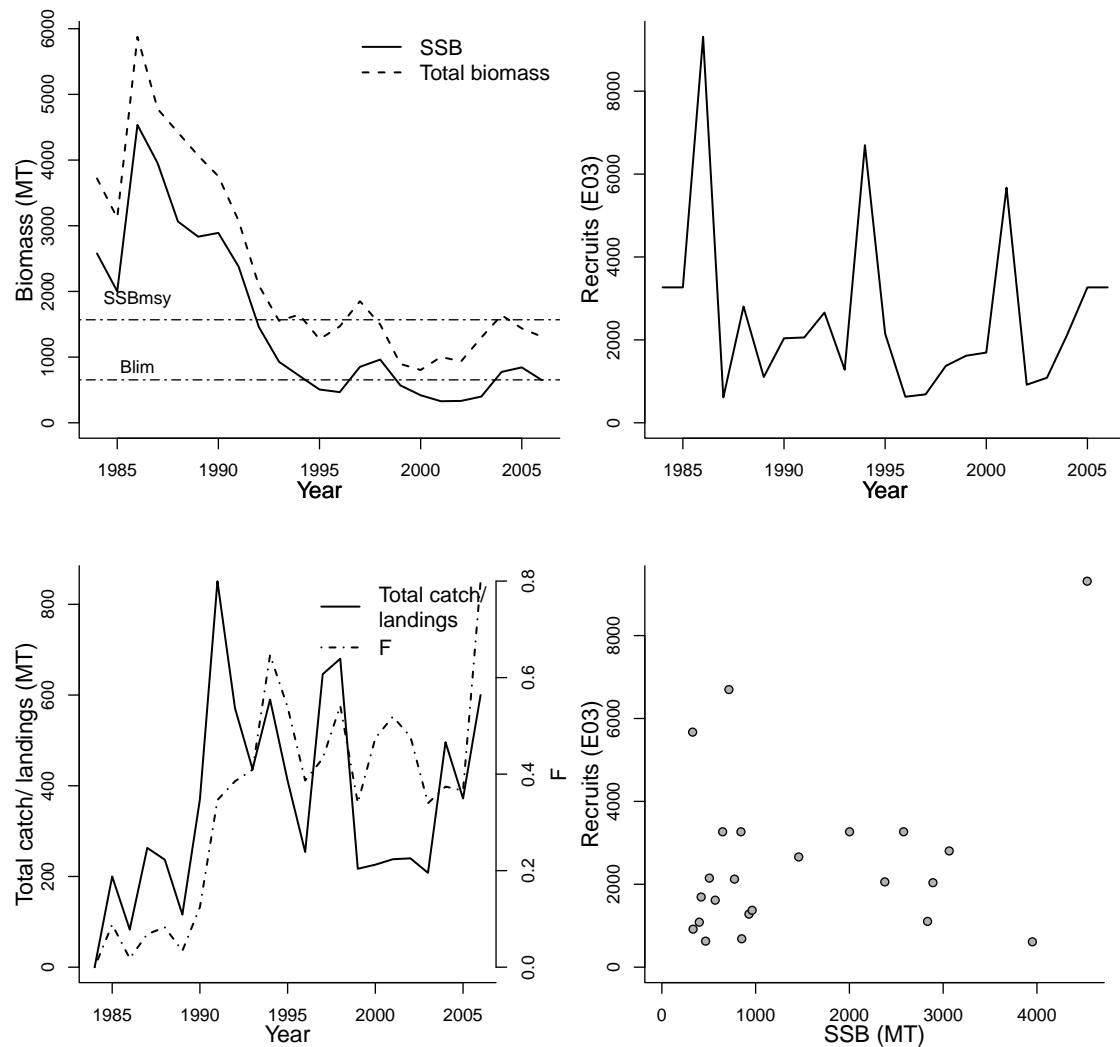
## General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Commonwealth Scientific and Industrial Research Organization
Assessment authors	Punt, Andre
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1984-2006
Document	WAREHOUSE.pdf (pdf not in database)
Recorder	FULTON
Date entered	2008-04-30
Date last loaded	2010-06-15
QA/QC complete	YES
Date approved	2009-06-11

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

primary LME			secondary LME	tertiary LME
43 - Southwest Australian Shelf			na	na
<hr/>				
Parameter	Value	Units	Reference points	
SSB-SEX-sex	1	sex	Parameter	Value
REC-AGE-yr	0	yr		Units
TB-AGE-yr	0	yr	Blim-MT (TB)	653.4
A50-yr	3	yr	SSB <sub>m</sub> sy-MT (SSB)	1568.16
L50-cm	33.4	cm	SSB <sub>2006</sub> /SSB <sub>m</sub> sy	0.413
SSB-AGE-yr				
F-AGE-yr				
M				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1984	1984	1984	1984
Maximum year	2006	2006	2006	2006
Time series minimum	328.04	612.336	0	803.621
Time series maximum	4535.7	9311.87	0.799761	5876.7
Units	MT	E03	ratio	MT



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

Assessment ID:DFO-COD5Zjm-1978-2003-PREFONTAINE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/163>

Area ID: Canada-DFO-5Zjm

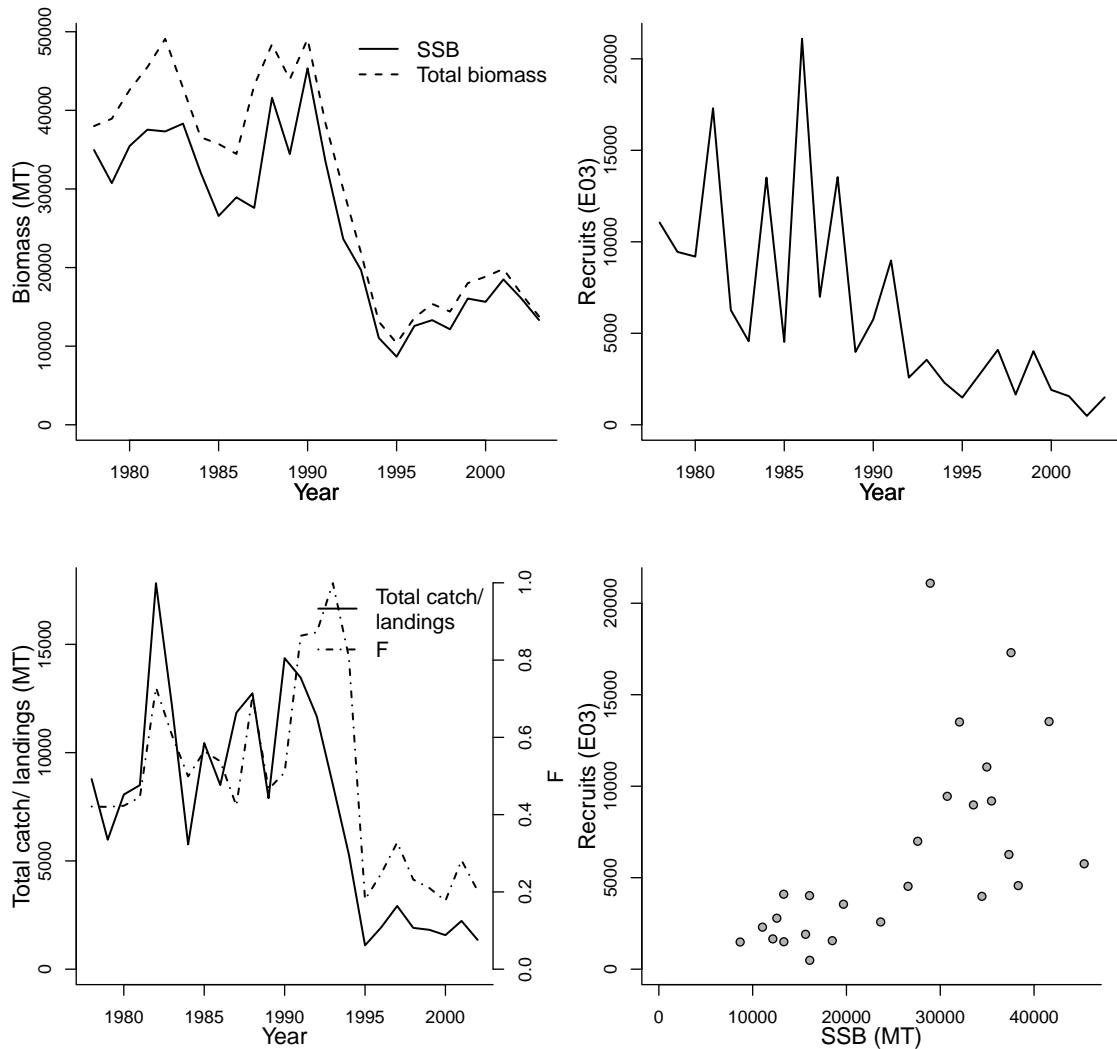
General assessment details.

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	2008-06-10
Date last loaded	2011-03-01
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
7 - Northeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	3+	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	4-9	yr-yr
TB-AGE-yr	1-10	yr
M-1/T	0.2	1/T
SSB-SEX-sex		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units
F0.1-1/yr (F)	0.18	1/yr

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1978	1978	1978
Maximum year	2003	2003	2002	2003
Time series minimum	8667	485	0.177	10384
Time series maximum	45343	21094	0.999	49102
Units	MT	E03	1/T	MT



# Assessment of Georges Bank haddock

## (*Melanogrammus aeglefinus*)

Assessment ID:DFO-HAD5Zejm-1968-2003-PREFONTAINE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/105>

Area ID: Canada-DFO-5Zejm

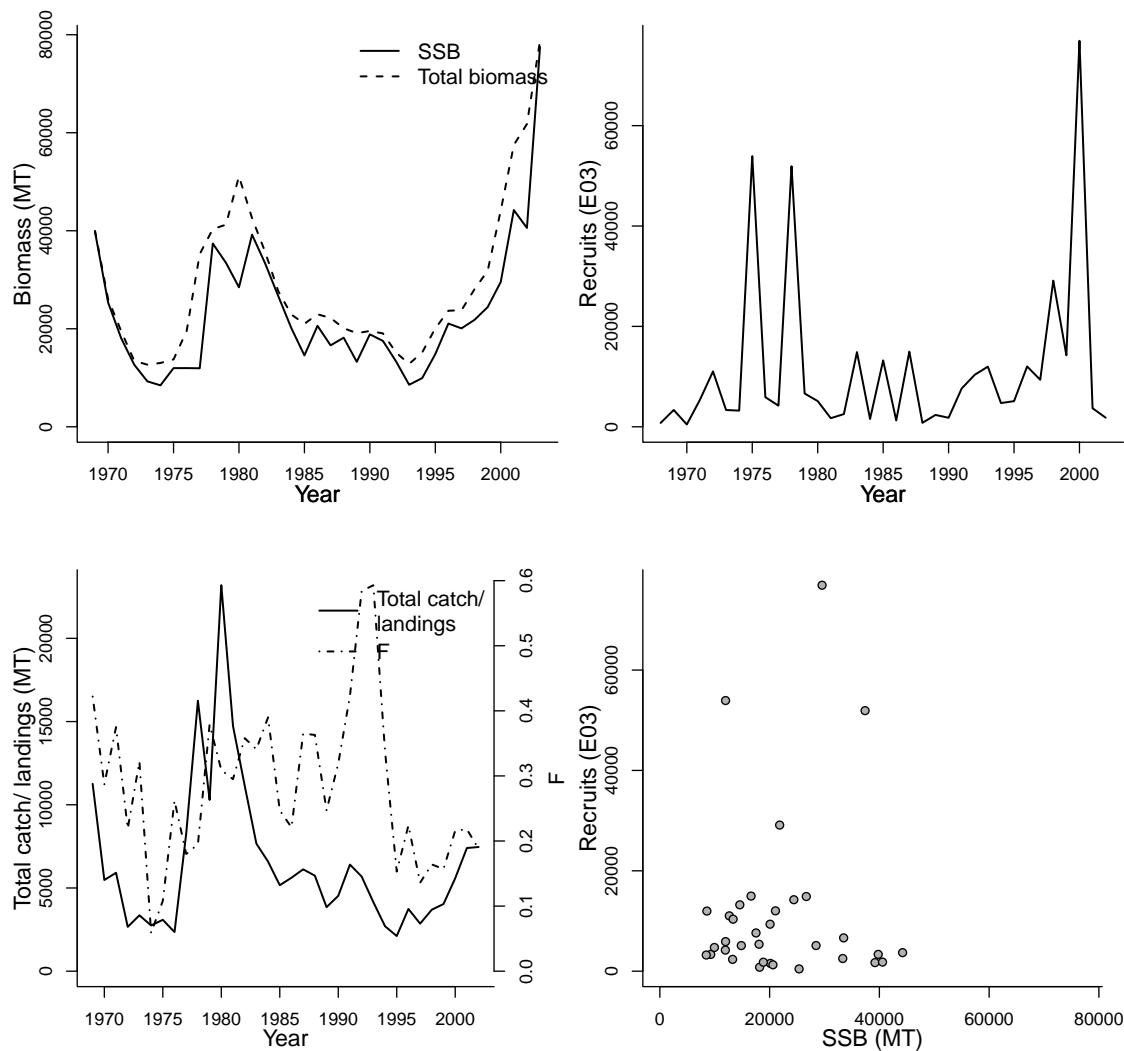
General assessment details.

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	1968-2003
Document	NAFO-HAD5Zejm-2003.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-04
Date last loaded	2010-07-14
QA/QC complete	YES
Date approved	2010-07-14

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	3+	yr		
REC-AGE-yr	1	yr		
F-AGE-yr-yr	4+	yr-yr	Reference points	
TB-AGE-yr	1-9+	yr	Parameter	Value
M-1/T	0.2	1/T		Units
SSB-SEX-sex			Fref-1/T (F)	0.26
M			Brebuild-MT (TB)	65000
A50-yr				MT
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1969	1968	1969	1969
Maximum year	2003	2002	2002	2003
Time series minimum	8458	456	0.059	12672
Time series maximum	77501	76905	0.593	78763
Units	MT	E03	1/T	MT



# Assessment of Scotian Shelf and Bay of Fundy herring (*Clupea harengus*)

Assessment ID:DFO-HERR4VWX-1965-2006-PREFONTAINE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/171>

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	2008-06-02
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

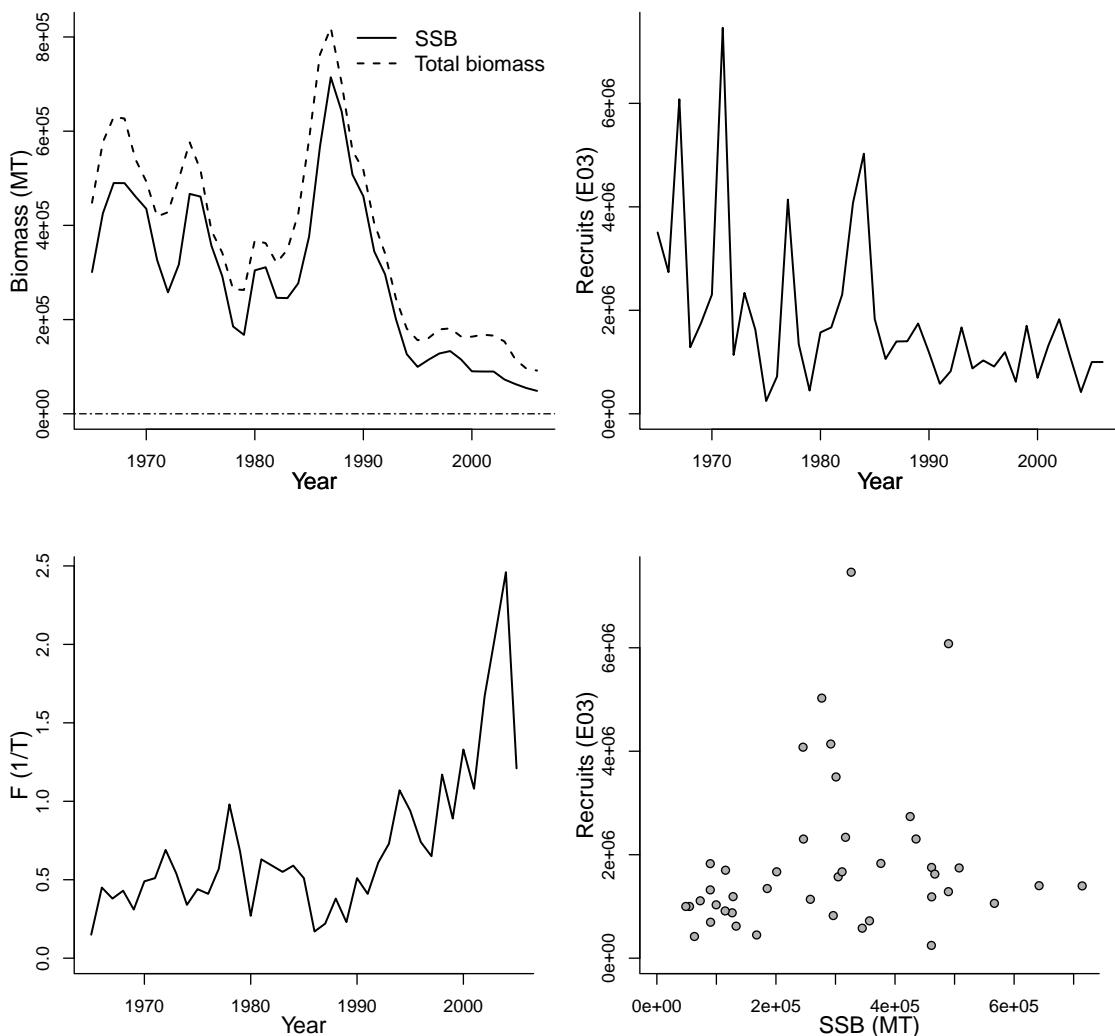
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units
SSB-AGE-yr	3+	yr
SSB-SEX-sex	NA	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	5-8	yr-yr
TB-AGE-yr	NA	yr
A50-yr	3	yr
M-1/T	0.2	1/T
M		
L50-cm		

Parameter	Value	Reference points	Units
Bmsy-MT (TB)	SEE NOTES		MT
F0.1-1/yr (F)	0.23		1/yr
Fmax-1/yr (F)	0.57		1/yr
BH-h-dimless	4 to 8 compared with ages 5-9 the following year		dimless

Time series minima and maxima				
	SSB	R	F	TB
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	MT	E03	1/T	MT



# Assessment of Canadian Atlantic Ocean barndoor skate (*Dipturus laevis*)

Assessment ID:DFO-MAR-BSKATCANATL-1970-1987-PREFONTAINE  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/151>

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	2008-07-09
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
8 - Scotian Shelf	7 - Northeast U.S. Continental Shelf	9 - Newfoundland-Labrador Shelf
<hr/>		
Parameter	Value	Units
REC-AGE		
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					
Maximum year					
Time series minimum					
Time series maximum					
Units					

No biomass data  
available

No recruitment  
data available

No exploitation  
data available

No SSB–recruit  
data available

# Assessment of Eastern Scotian Shelf atlantic cod

## (*Gadus morhua*)

Assessment ID:DFO-MAR-COD4VsW-1958-2002-PREFONTAINE  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/162>

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	2008-06-09
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

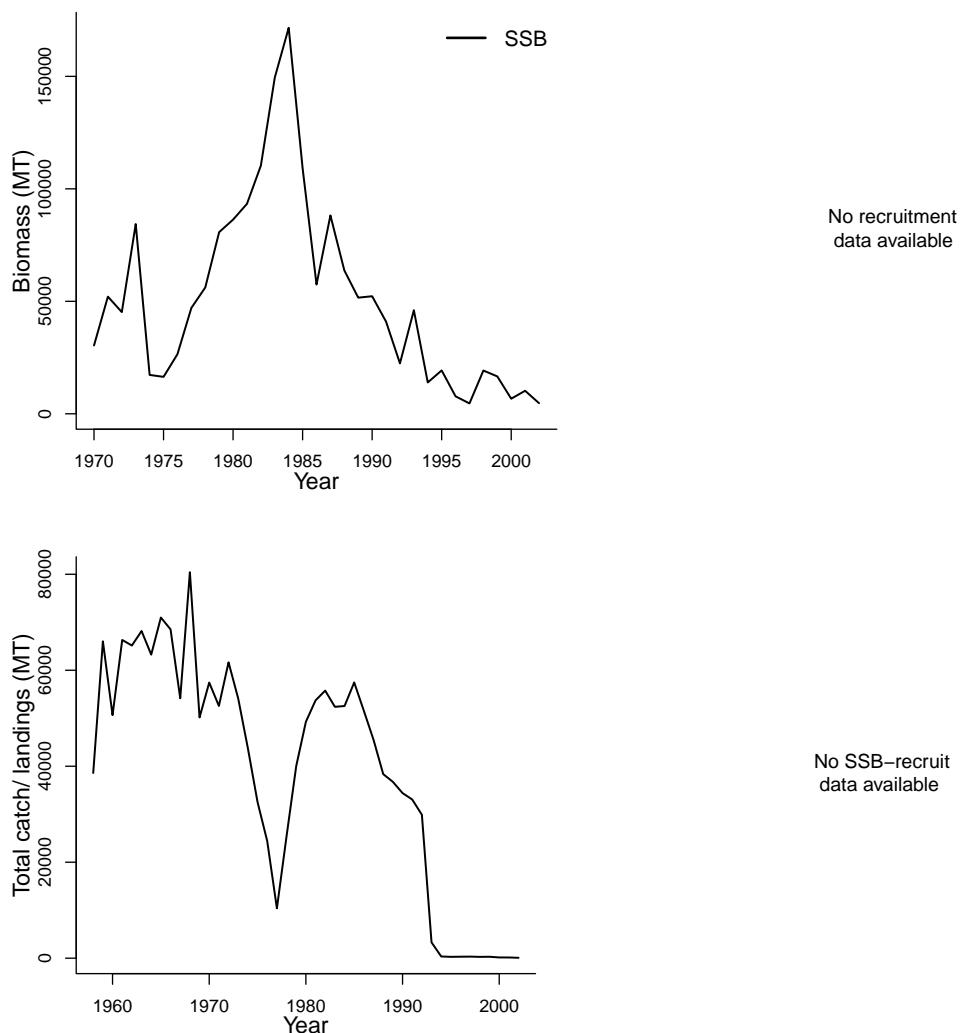
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	primary LME	secondary LME	tertiary LME	Units
		8 - Scotian Shelf	na	na	
A50-yr	3				yr
L50-cm	SEE FIGURES 15 AND 16 OF THE ASSESSMENT				cm
REC-AGE					
SSB-AGE-yr					
SSB-SEX-sex					
TB-AGE-yr					
F-AGE-yr					
M					

Parameter	Reference points		
		Value	Units
MORATOR-yr-yr	1993-2008	yr-yr	
SSBreccovery-MT	16420	MT	
SSBnp50-MT	53990	MT	
SSBrk50-MT	23940	MT	
SSBbh50-MT	33670	MT	
SSBs50/90-MT	12590	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



# Assessment of Western Scotian Shelf cusk (*Brosme brosme*)

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

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

Area ID: Canada-DFO-4X

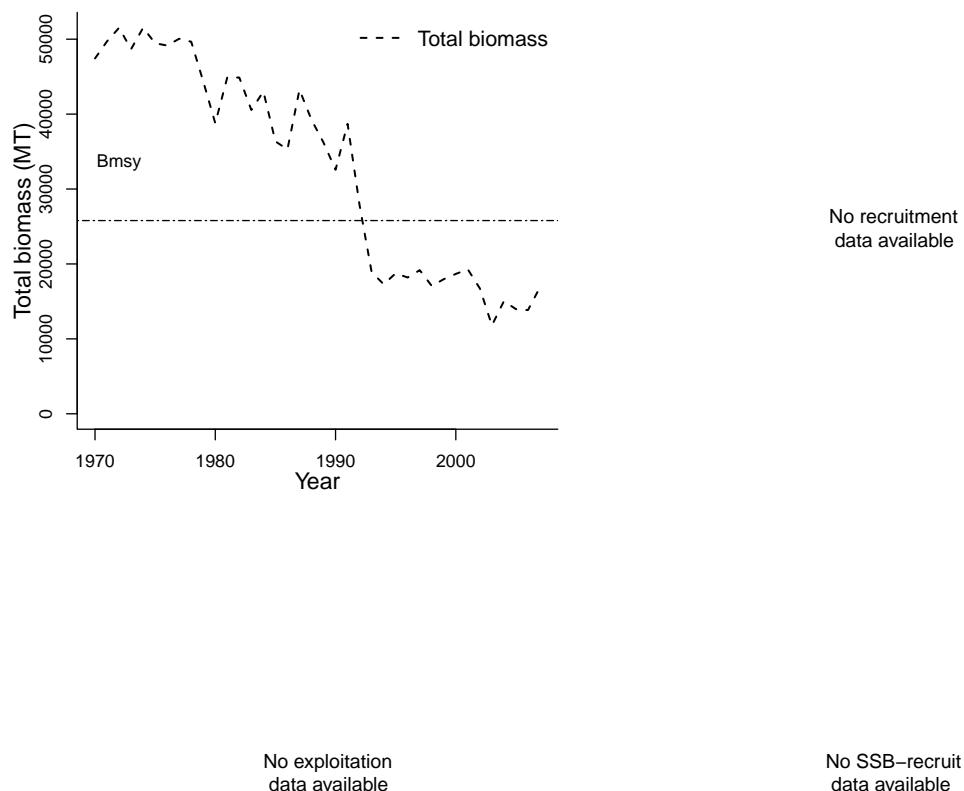
General assessment details.

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

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

primary LME			secondary LME	tertiary LME	
7 - Northeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			K-MT	51580	MT
SSB-SEX-sex			MSY-MT (TB)	1482.925	MT
TB-AGE-yr			Bmsy-MT (TB)	25790	MT
F-AGE-yr			Umsy-ratio (U)	0.0575	ratio
M			BO-MT	47430	MT
A50-yr			$TB_{2007}/B_{msy}$	0.655	
L50-cm					

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



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

*(Melanogrammus aeglefinus)*

Assessment ID:DFO-MAR-HAD4X5Y-1960-2003-PREFONTAINE  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/166>

Area ID: Canada-DFO-4X5Y

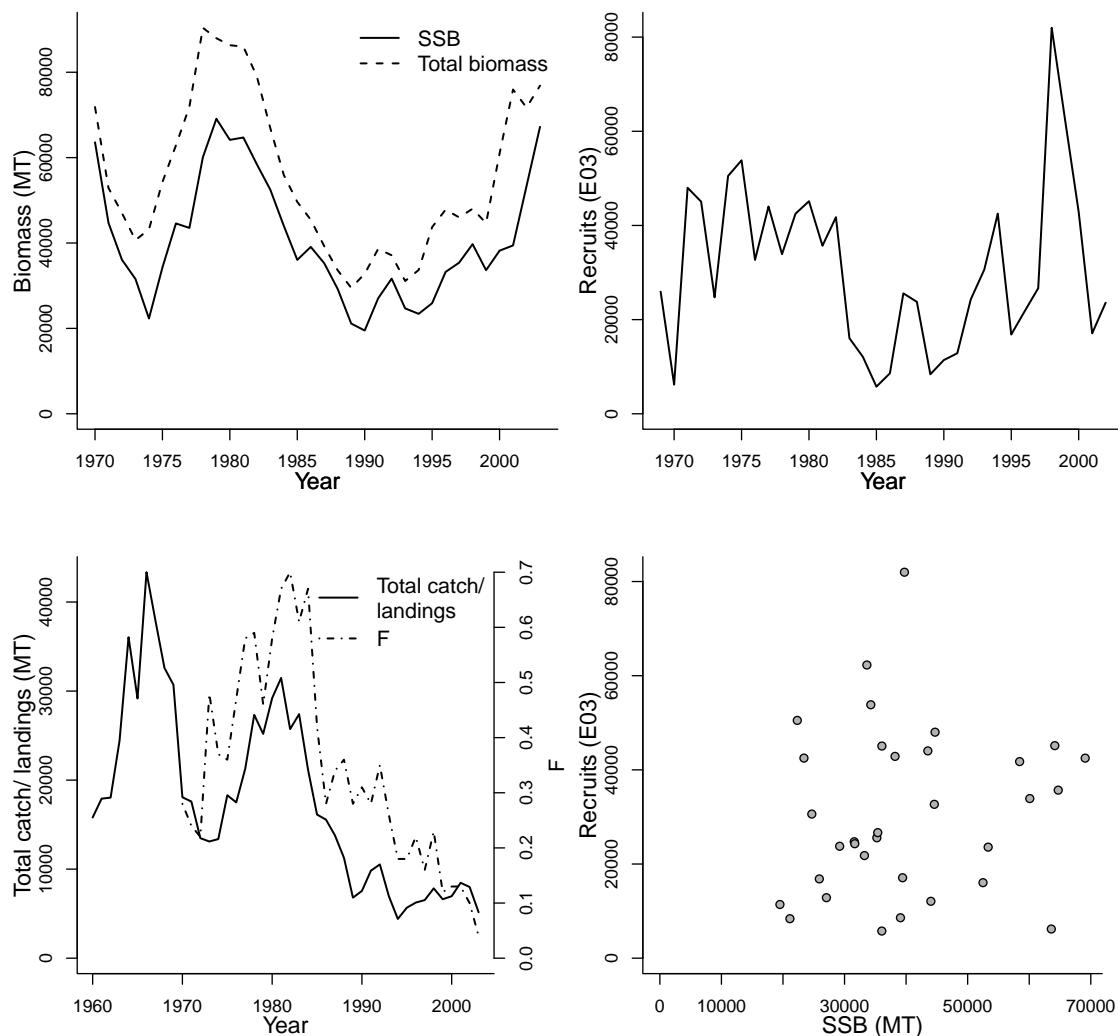
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Maritimes Region
Assessment authors	Hurley, P.C.F.
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2003
Timeseries span	1960-2003
Document	NAFO-HAD4X5Y-2003.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-06-03
Date last loaded	2011-03-02
QA/QC complete	YES
Date approved	2011-03-02

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

primary LME		secondary LME		tertiary LME
7 - Northeast U.S. Continental Shelf		8 - Scotian Shelf		na
<hr/>				
Parameter	Value	Units	<hr/>	
SSB-AGE-yr	4+	yr	<hr/>	
REC-AGE-yr	1	yr	<hr/>	
F-AGE-yr-yr	5-7	yr-yr	Reference points	
TB-AGE-yr	1-10	yr	Parameter	Value
M-1/T	0.2	1/T		Units
SSB-SEX-sex			F0.1-1/yr (F)	0.25 1/yr
M				
A50-yr				
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1970	1969	1970	1970
Maximum year	2003	2002	2003	2003
Time series minimum	19506	5765	0.04	29495
Time series maximum	69091	81978	0.7	90408
Units	MT	E03	1/T	MT



# Assessment of Scotian Shelf, Bay of Fundy and Georges Bank white hake (*Urophycis tenuis*)

Assessment ID:DFO-MAR-WHAK4VWX5-1964-2005-PREFONTAINE  
Issue URL: <http://www.marinbiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/6>

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	NAFO-WHAK4VWX5-2005.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-06-18
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
8 - Scotian Shelf	7 - Northeast U.S. Continental Shelf	na
Parameter	Value	Units
F-AGE-yr-yr	SEE NOTES	yr-yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year					1964
Maximum year					2005
Time series minimum					505
Time series maximum					8697
Units					MT

No biomass data available

No recruitment data available



No SSB-recruit data available

# Assessment of Labrador - NE Newfoundland american plaice (*Hippoglossoides platessoides*)

Assessment ID:DFO-NFLD-AMPL23K-1960-2004-PREFONTAINE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/8>

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	Temporal indices derived from scientific survey data
Publication year	2003
Timeseries span	1960-2004
Document	NAFO-AMPL23K-2003.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-06-03
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

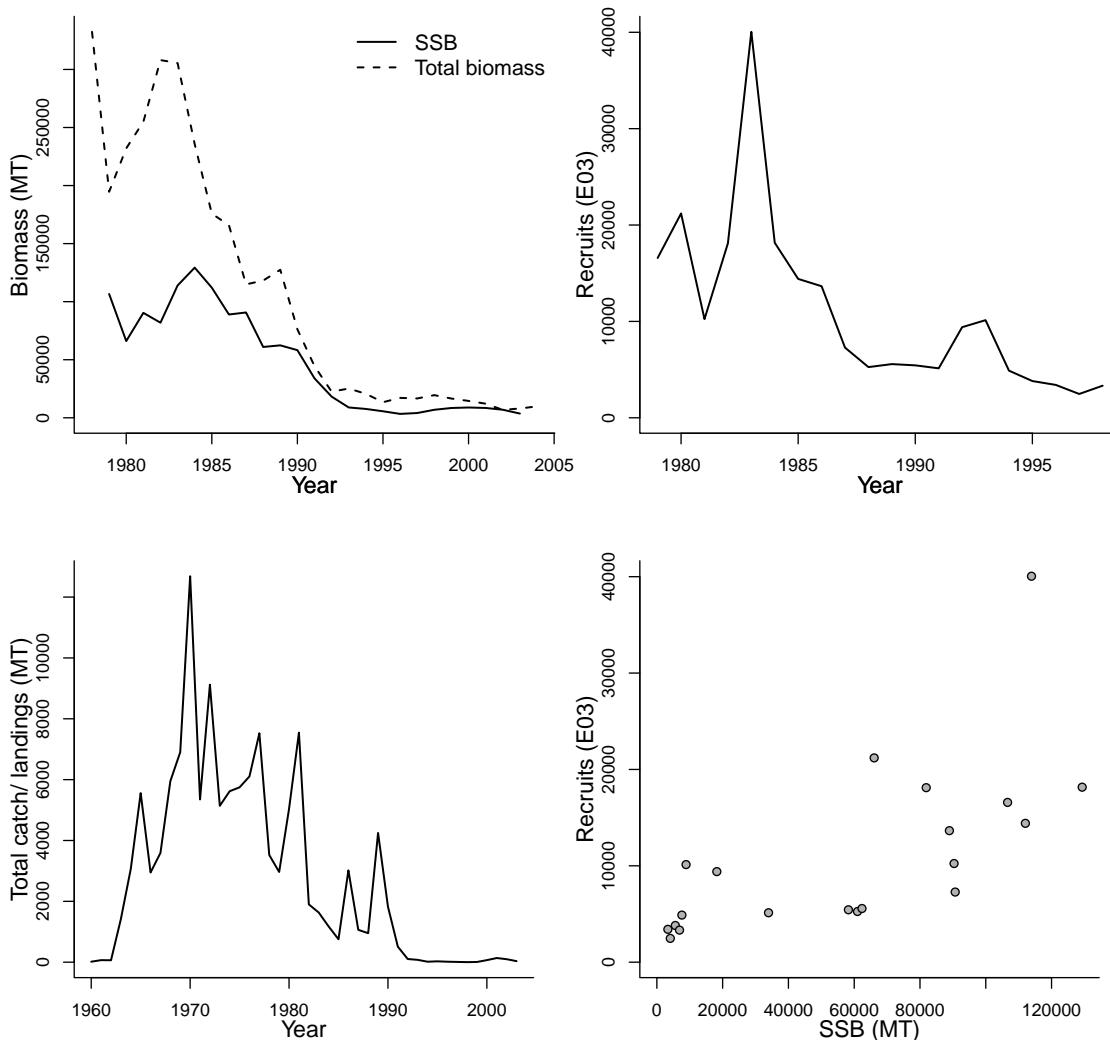
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf	na	na
Parameter	Value	Units
SSB-SEX-sex	1	sex
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		

Reference points		
Parameter	Value	Units
MORATOR-yr-yr	1994-2003	yr-yr

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



# Assessment of St. Pierre Bank american plaice (*Hippoglossoides platessoides*)

Assessment ID:DFO-NFLD-AMPL3Ps-1960-2005-PREFONTAINE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/178>

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	2008-07-04
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

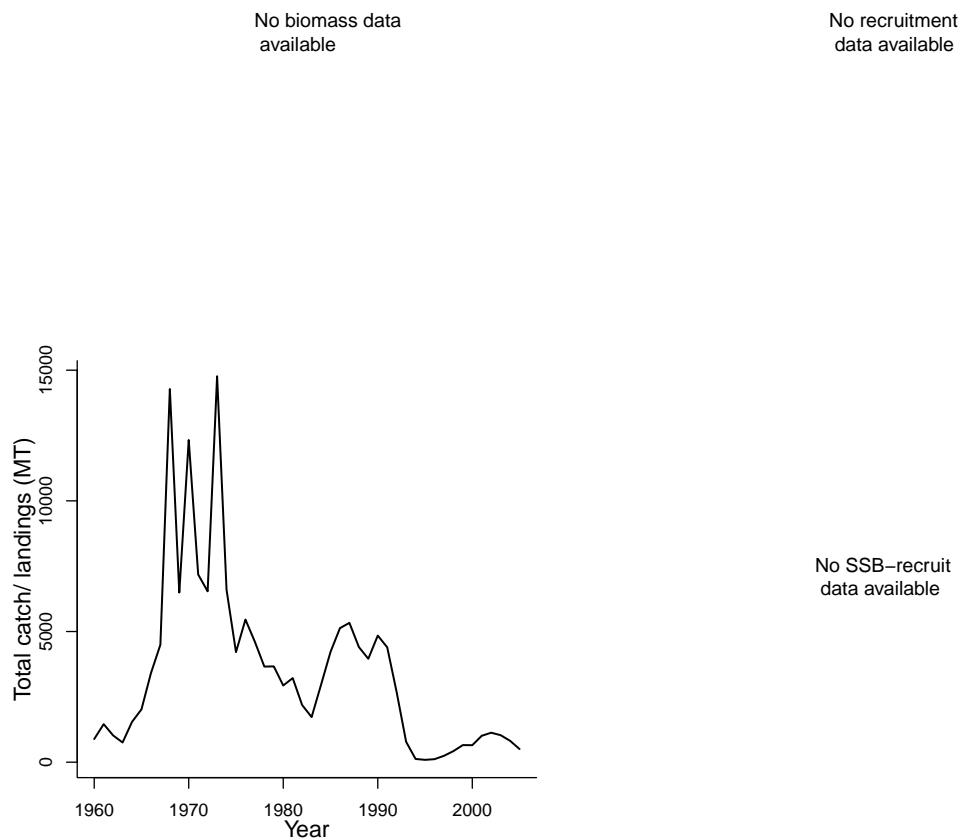
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf	8 - Scotian Shelf	na
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
Blim-MT (TB)	7.7-16.2	MT
MORATOR-yr-yr	1993-present	yr-yr
SSB50-MT	13.6	MT

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



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

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

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

Area ID: Canada-DFO-2J3KL

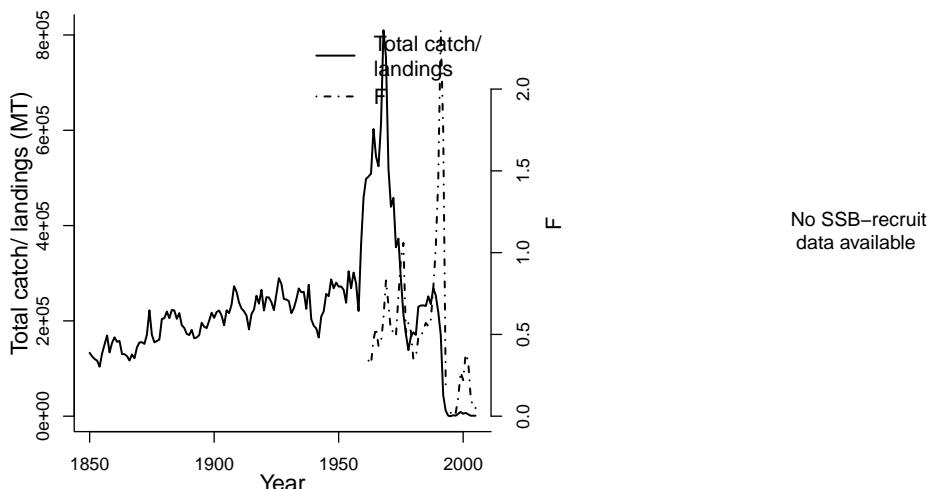
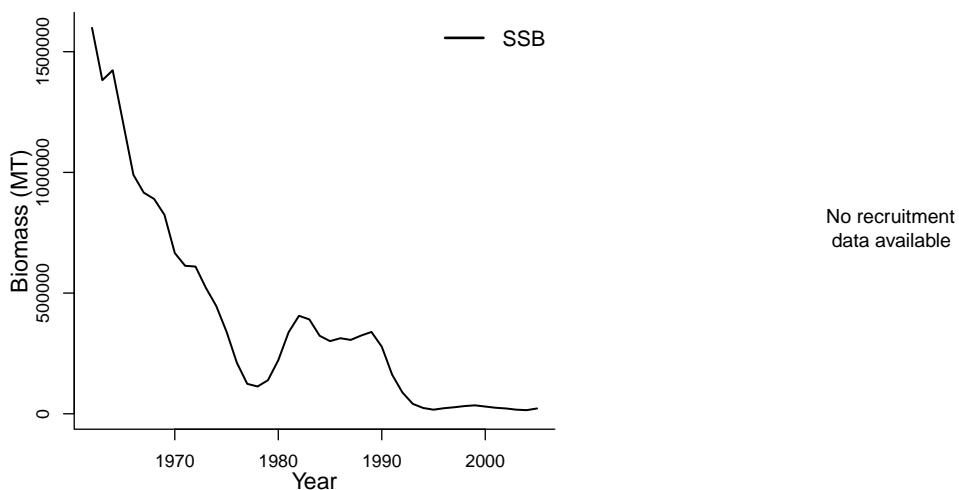
General assessment details.

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		
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		
SSB-AGE-yr		Reference points		
SSB-SEX-sex		Parameter	Value	Units
TB-AGE-yr		MORATOR-yr-yr	1992-2005	yr-yr
M				
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
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



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

Assessment ID:DFO-NFLD-COD2J3KLIS-1959-2006-PREFONTAINE  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/152>

Area ID: Canada-DFO-2J3KL

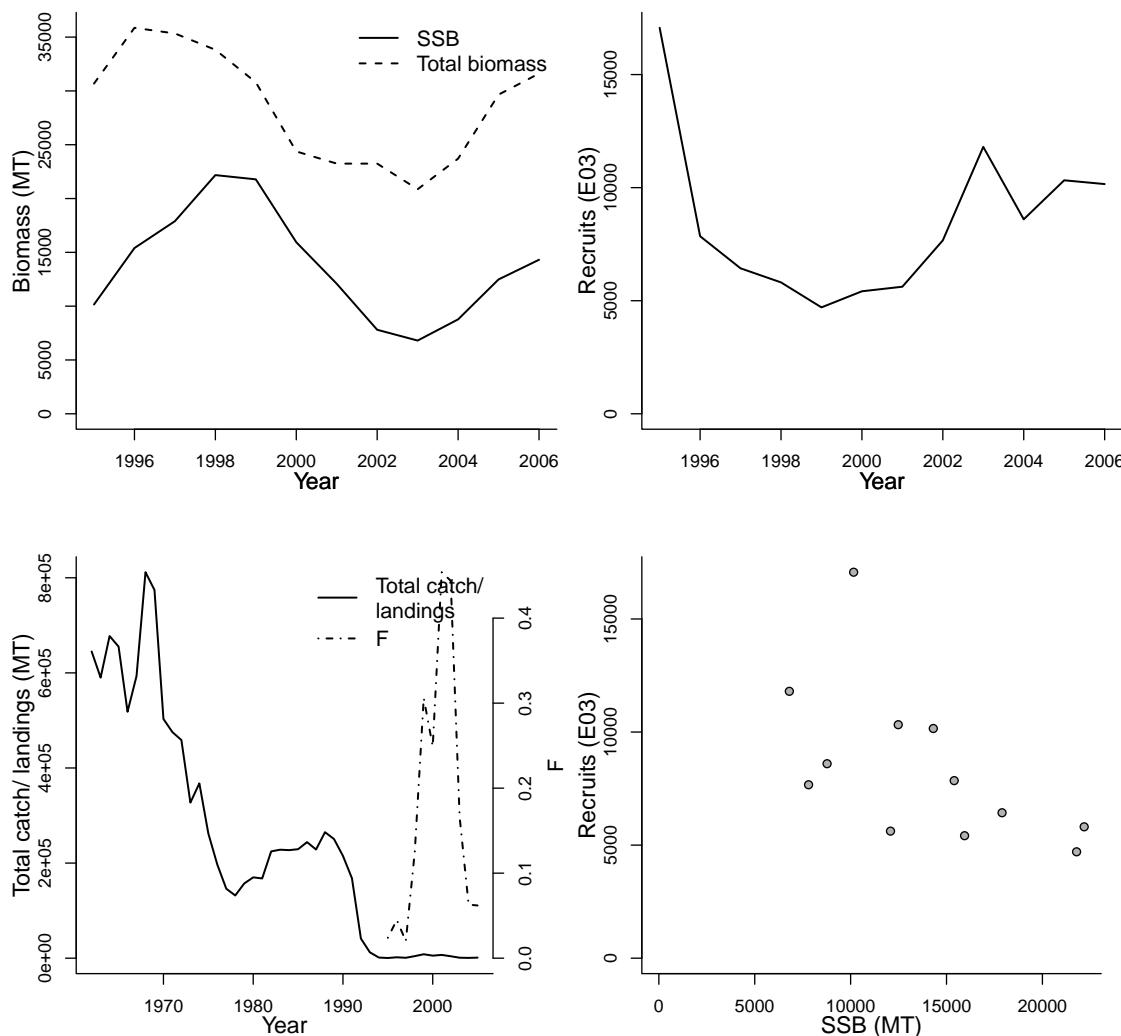
General assessment details.

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	2008-05-28
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
9 - Newfoundland-Labrador Shelf		na		na
Parameter	Value	Units		
SSB-AGE-yr	2+	yr		
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		
SSB-SEX-sex				
TB-AGE-yr				
M				
L50-cm				
		Reference points		
		Parameter	Value	Units
		MORATOR-yr-yr	1992-2005	yr-yr

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

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/155>

Area ID: Canada-DFO-3Ps

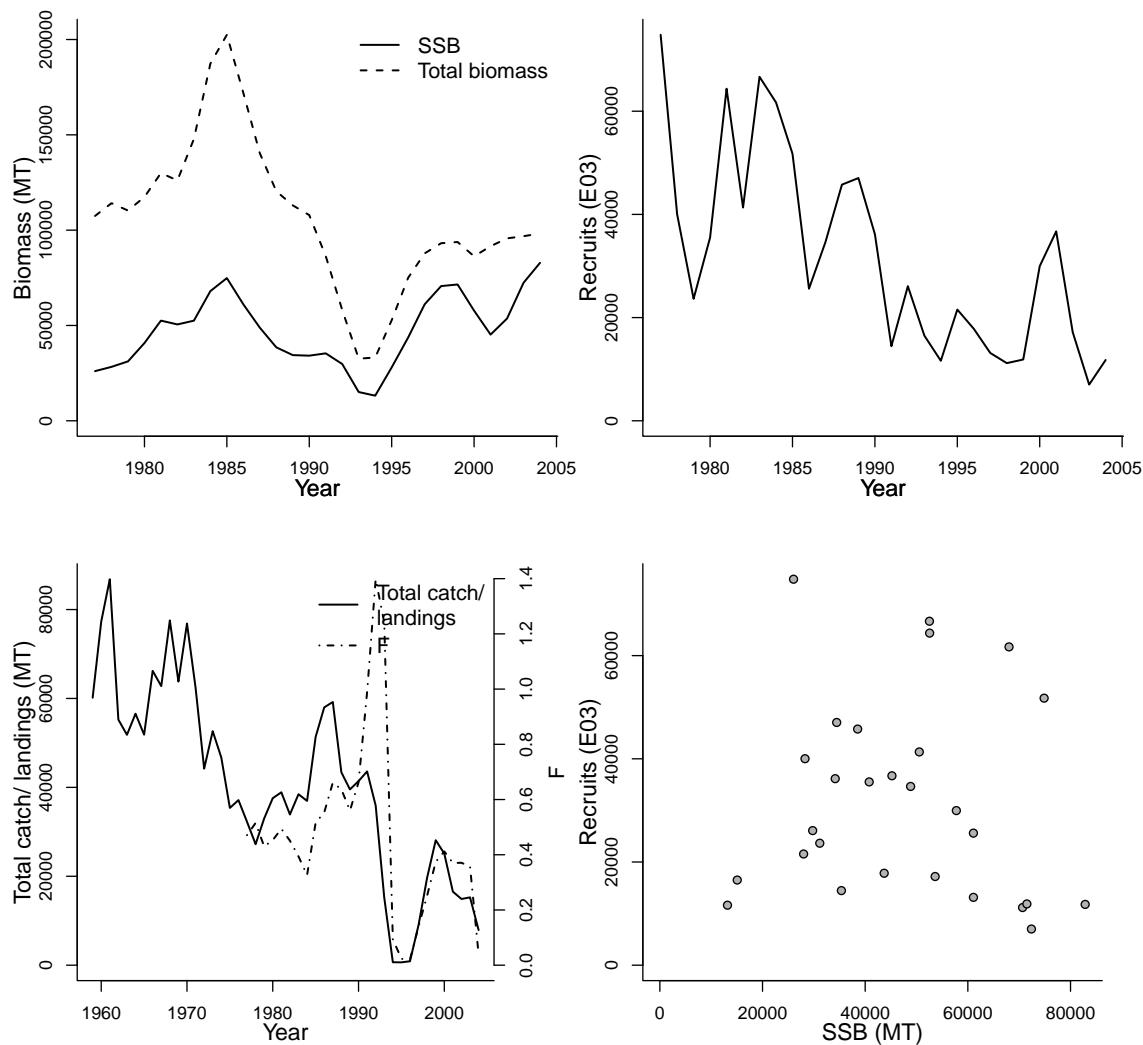
General assessment details.

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 in database)
Recorder	PREFONTAINE
Date entered	2008-05-27
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			
A50-yr	7-8	yr			
M-1/T	0.2	1/T			
REC-AGE			Reference points		
SSB-AGE-yr			Parameter	Value	Units
SSB-SEX-sex			MORATOR-yr-yr	1994-1996	yr-yr
TB-AGE-yr			SSBrecovery-1-MT	36000	MT
F-AGE-yr			SSBrecovery-2-MT	13000	MT
M					
L50-cm					

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-1977-2000-PREFONTAINE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/5>

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	1977-2000
Document	NAFO-MONK2J3KLNOPs-2001.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-06-26
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

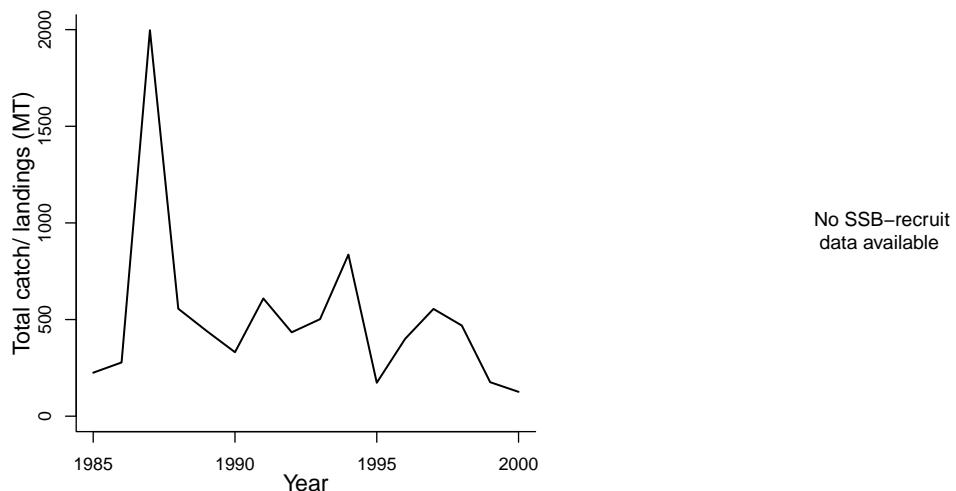
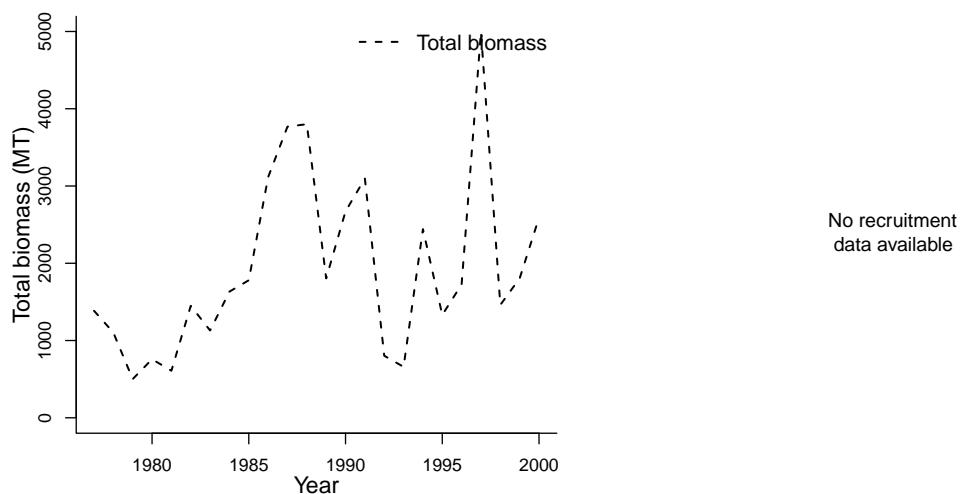
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf	na	na
<hr/>		
Parameter	Value	Units
REC-AGE		
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				1977	1985
Maximum year				2000	2000
Time series minimum				501	126
Time series maximum				4996	1997
Units				MT	MT



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

## Assessment

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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/175>

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	NAFO-RED23K-2001.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-08-19
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

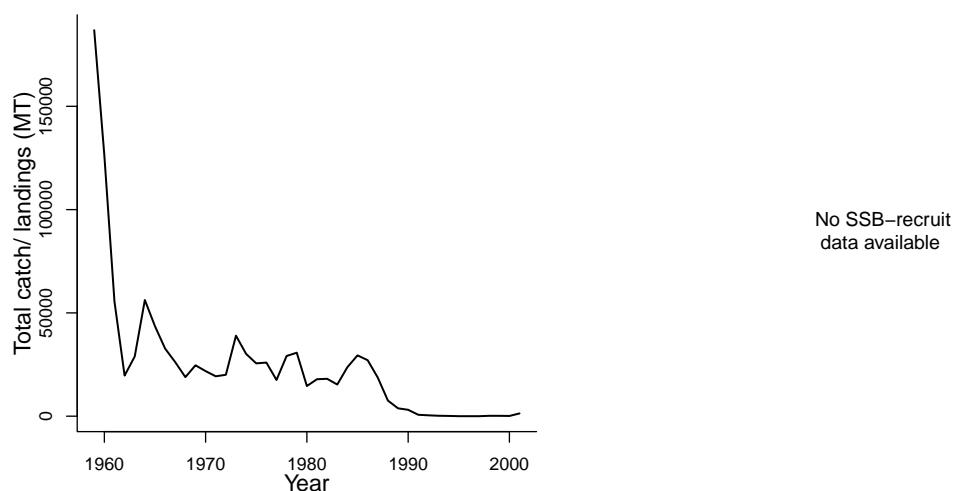
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME		secondary LME	tertiary LME
Parameter	Value	Units	
9 - Newfoundland-Labrador Shelf	na	na	
Parameter	Value	Units	Reference points
REC-AGE			Parameter
SSB-AGE-yr			Value
SSB-SEX-sex			Units
TB-AGE-yr	F0.1-1/yr (F)	1/yr	
F-AGE-yr	MORATOR-yr-yr	yr-yr	
M			
A50-yr			
L50-cm			

Time series minima and maxima				
	SSB	R	F	TB
Minimum year				1959
Maximum year				2001
Time series minimum				3
Time series maximum				186837
Units				MT

No biomass data available

No recruitment data available



# Assessment of Hecate Strait english sole (*Parophrys vetulus*)

Assessment ID:DFO-PAC-ESOLEHS-1944-2001-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/106>

Area ID: Canada-DFO-HS

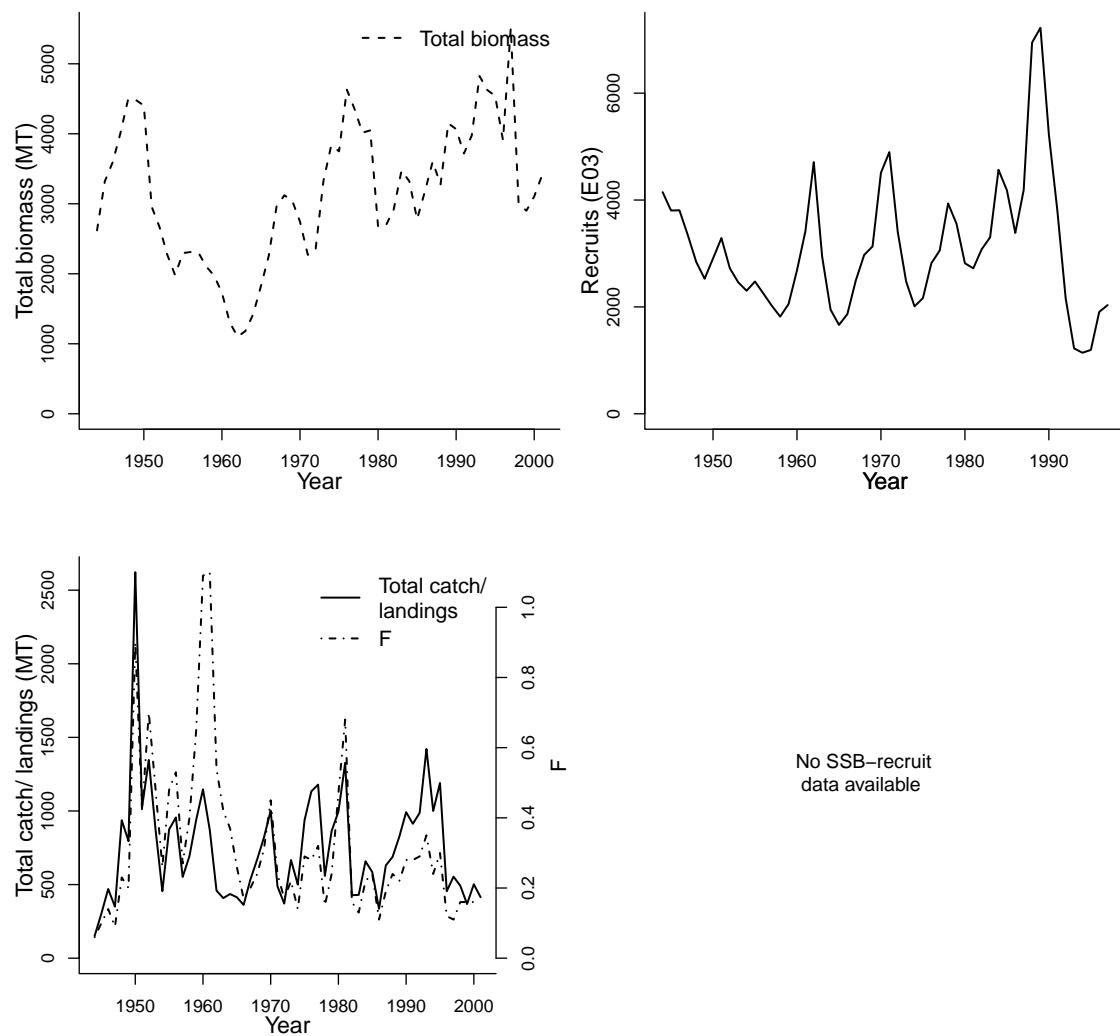
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Fargo, Jeff
Assessment method	State-space catch at age time series analysis
Publication year	1999
Timeseries span	1944-2001
Document	Flat99.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-04-21
Date last loaded	2009-05-14
QA/QC complete	YES
Date approved	2009-05-13

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

primary LME	secondary LME	tertiary LME
2 - Gulf of Alaska	na	na
<hr/>		
Parameter	Value	Units
M-1/yr	0.2	1/yr
SSB-SEX-sex	0	sex
TB-AGE-yr	4+	yr
REC-AGE-yr	4	yr
SSB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units
F0.1-1/yr (F)	0.25	1/yr

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year		1944	1944	1944	1944
Maximum year		1997	2001	2001	2001
Time series minimum	1142	0.06	1101	152	
Time series maximum	7223	1.1	5514	2622	
Units	E03	1/T	MT	MT	



# Assessment of Central Coast pacific herring (*Clupea pallasii*)

Assessment ID:DFO-PAC-HERRCC-1951-2007-COLLIE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/305>

Area ID: Canada-DFO-CC

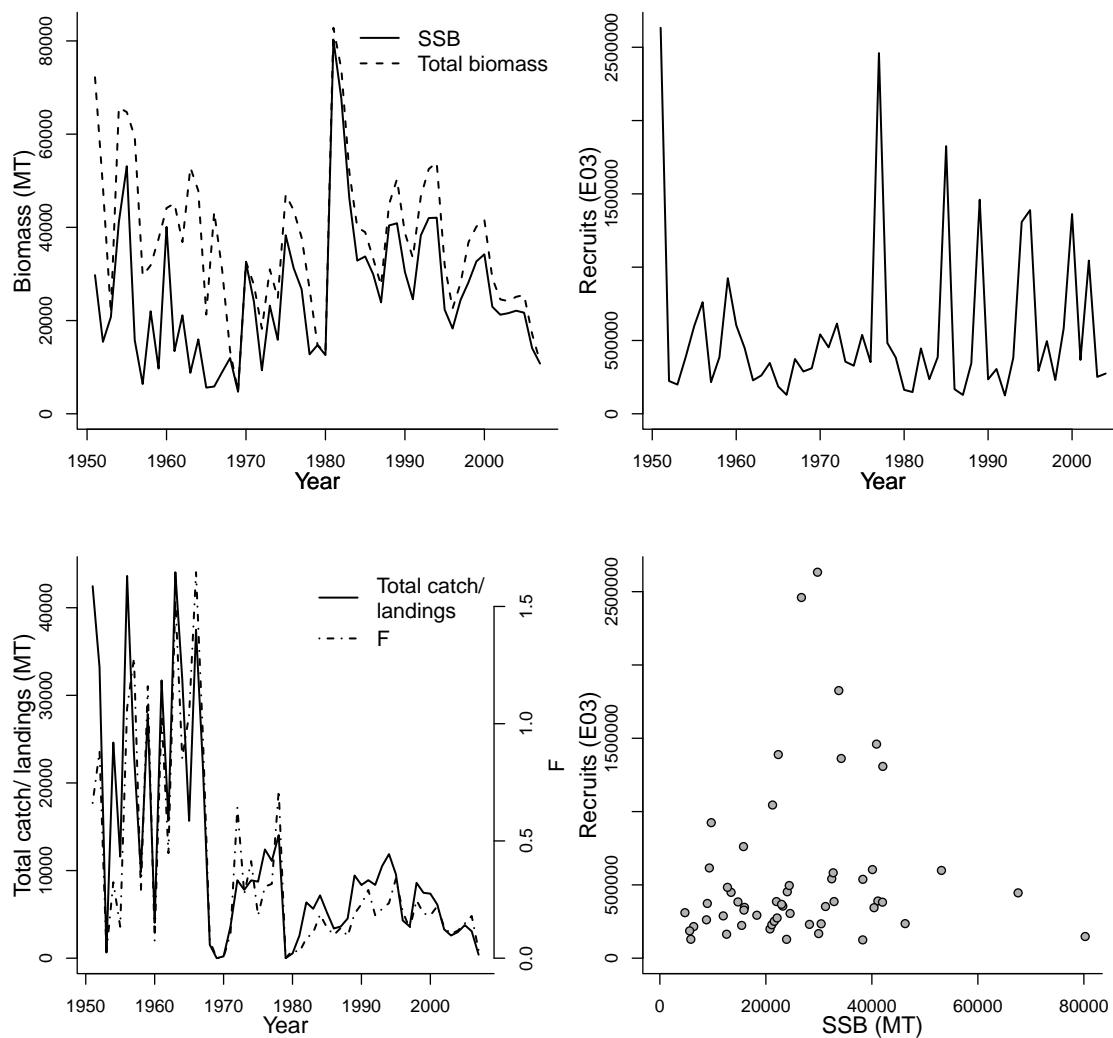
## General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Schweigert, Jake
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2007
Timeseries span	1951-2007
Document	RES2007_002.e.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-07-30
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2009-05-13

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

primary LME	secondary LME	tertiary LME
2 - Gulf of Alaska	na	na
<hr/>		
Parameter	Value	Units
REC-AGE-yr	3	yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1951	1951	1951	1951
Maximum year	2007	2004	2007	2007
Time series minimum	4728	124900	0	4728
Time series maximum	80245.06	2632700	1.646	82818.06
Units	MT	E03	1/yr	MT



# Assessment of Prince Rupert District pacific herring (*Clupea pallasii*)

Assessment ID:DFO-PAC-HERRPRD-1951-2007-COLLIE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/306>

Area ID: Canada-DFO-PRD

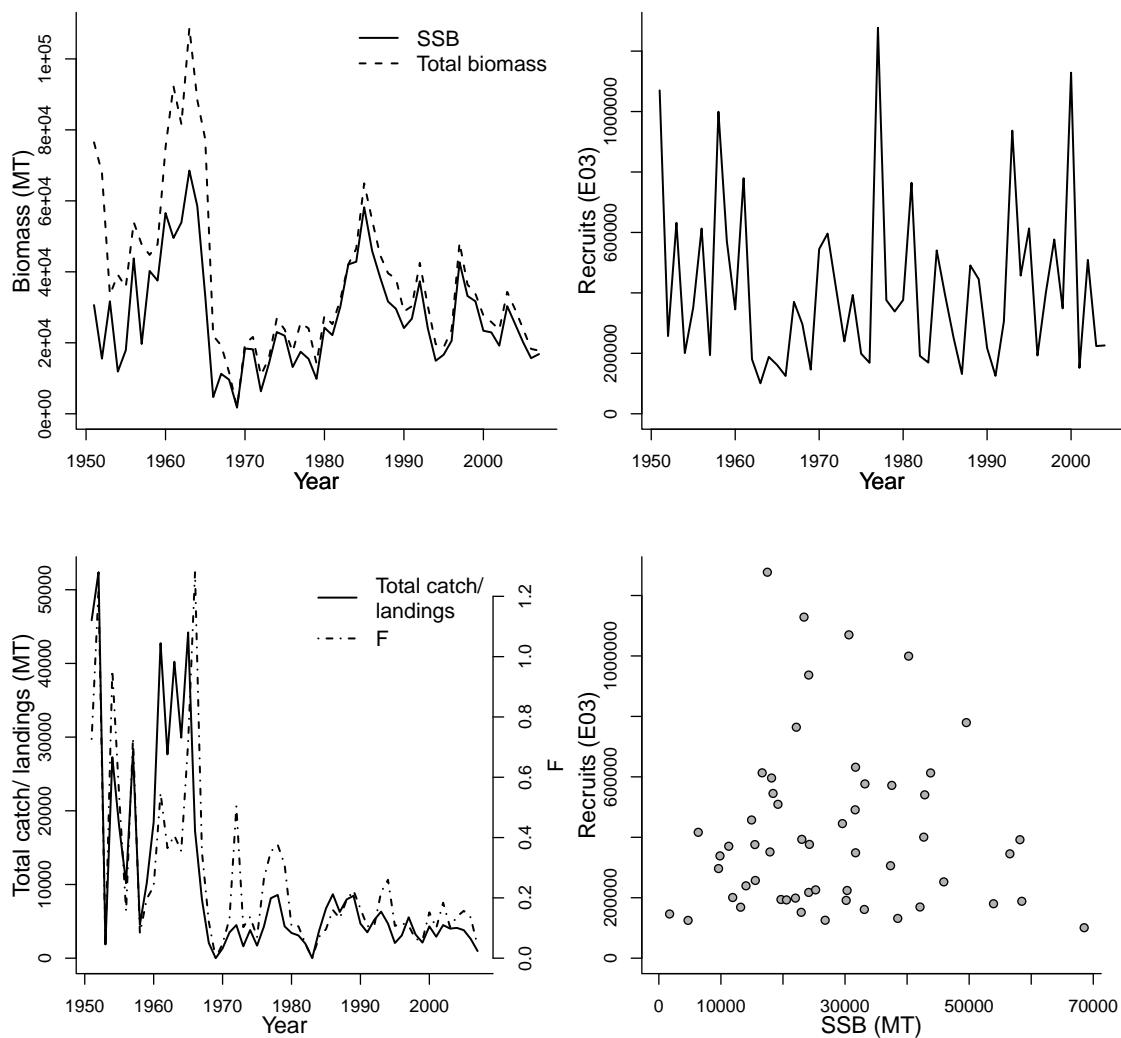
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Schweigert, Jake
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2007
Timeseries span	1951-2007
Document	RES2007_002.e.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-07-30
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2009-05-13

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

primary LME	secondary LME	tertiary LME
2 - Gulf of Alaska	na	na
<hr/>		
Parameter	Value	Units
REC-AGE-yr	3	yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1951	1951	1951	1951
Maximum year	2007	2004	2007	2007
Time series minimum	1727.74	100900	0	1727.74
Time series maximum	68535.03	1277100	1.28	108763.03
Units	MT	E03	1/yr	MT



# Assessment of Queen Charlotte Islands pacific herring (*Clupea pallasii*)

Assessment ID:DFO-PAC-HERRQCI-1951-2007-COLLIE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/307>

Area ID: Canada-DFO-QCI

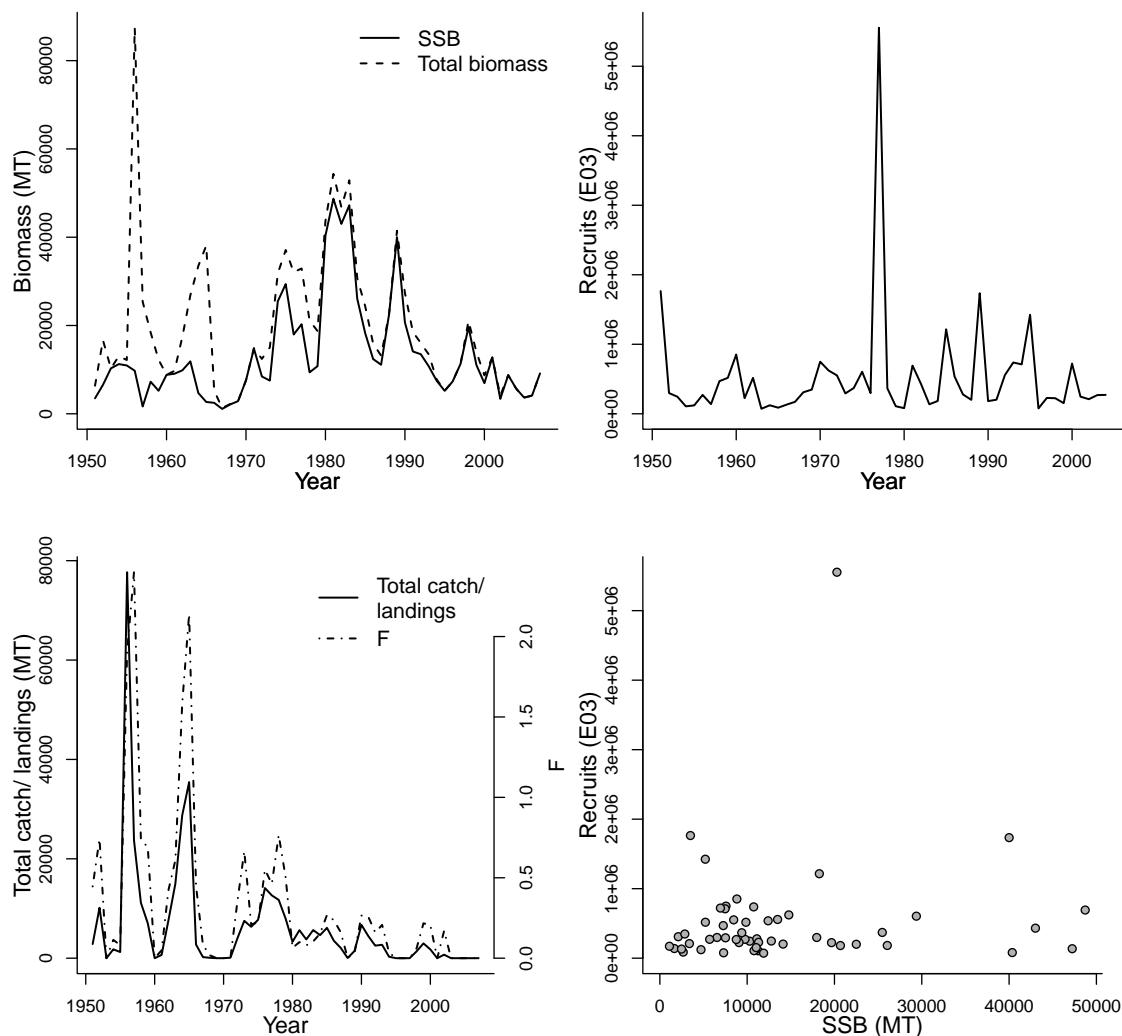
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Schweigert, Jake
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2007
Timeseries span	1951-2007
Document	RES2007_002.e.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-07-30
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2009-05-13

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

primary LME	secondary LME	tertiary LME
2 - Gulf of Alaska	na	na
<hr/>		
Parameter	Value	Units
REC-AGE-yr	3	yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units

Time series minima and maxima				
	SSB	R	F	Catch
Minimum year	1951	1951	1951	1951
Maximum year	2007	2004	2007	2007
Time series minimum	1098.02	72400	0	1311.02
Time series maximum	48715.62	5553000	2.4	87437.09
Units	MT	E03	1/yr	MT



# Assessment of Straight of Georgia pacific herring (*Clupea pallasii*)

Assessment ID:DFO-PAC-HERRSOG-1951-2007-COLLIE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/308>

Area ID: Canada-DFO-SOG

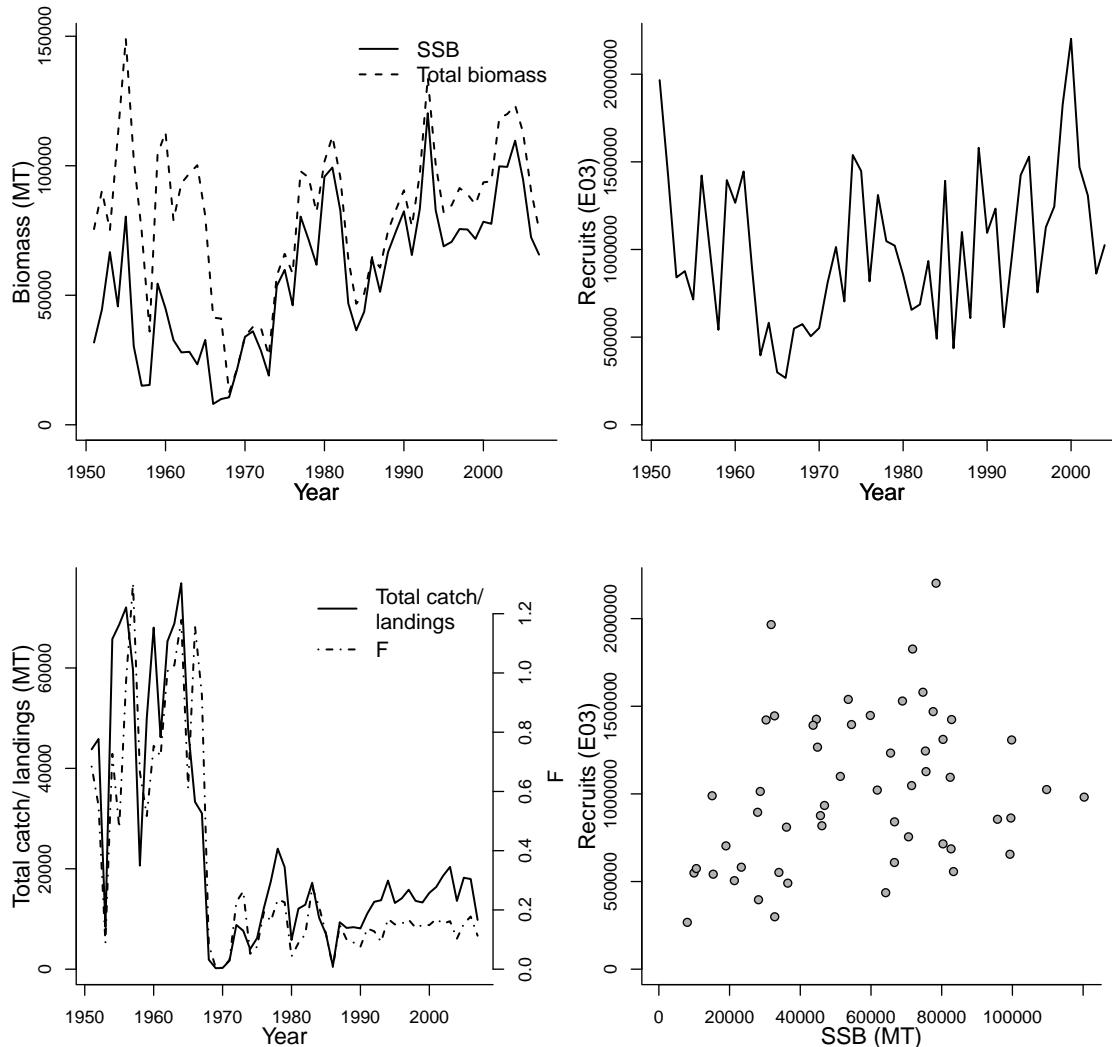
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Schweigert, Jake
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2007
Timeseries span	1951-2007
Document	RES2007_002.e.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-07-29
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2009-05-13

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

primary LME	secondary LME	tertiary LME
2 - Gulf of Alaska	na	na
<hr/>		
Parameter	Value	Units
REC-AGE-yr	3	yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1951	1951	1951	1951
Maximum year	2007	2004	2007	2007
Time series minimum	8039.02	267200	0.005	12492.81
Time series maximum	120297.96	2202000	1.303	149010.43
Units	MT	E03	1/yr	MT



# Assessment of West Coast of Vancouver Island pacific herring (*Clupea pallasii*)

Assessment ID:DFO-PAC-HERRWCVANI-1951-2007-COLLIE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/309>

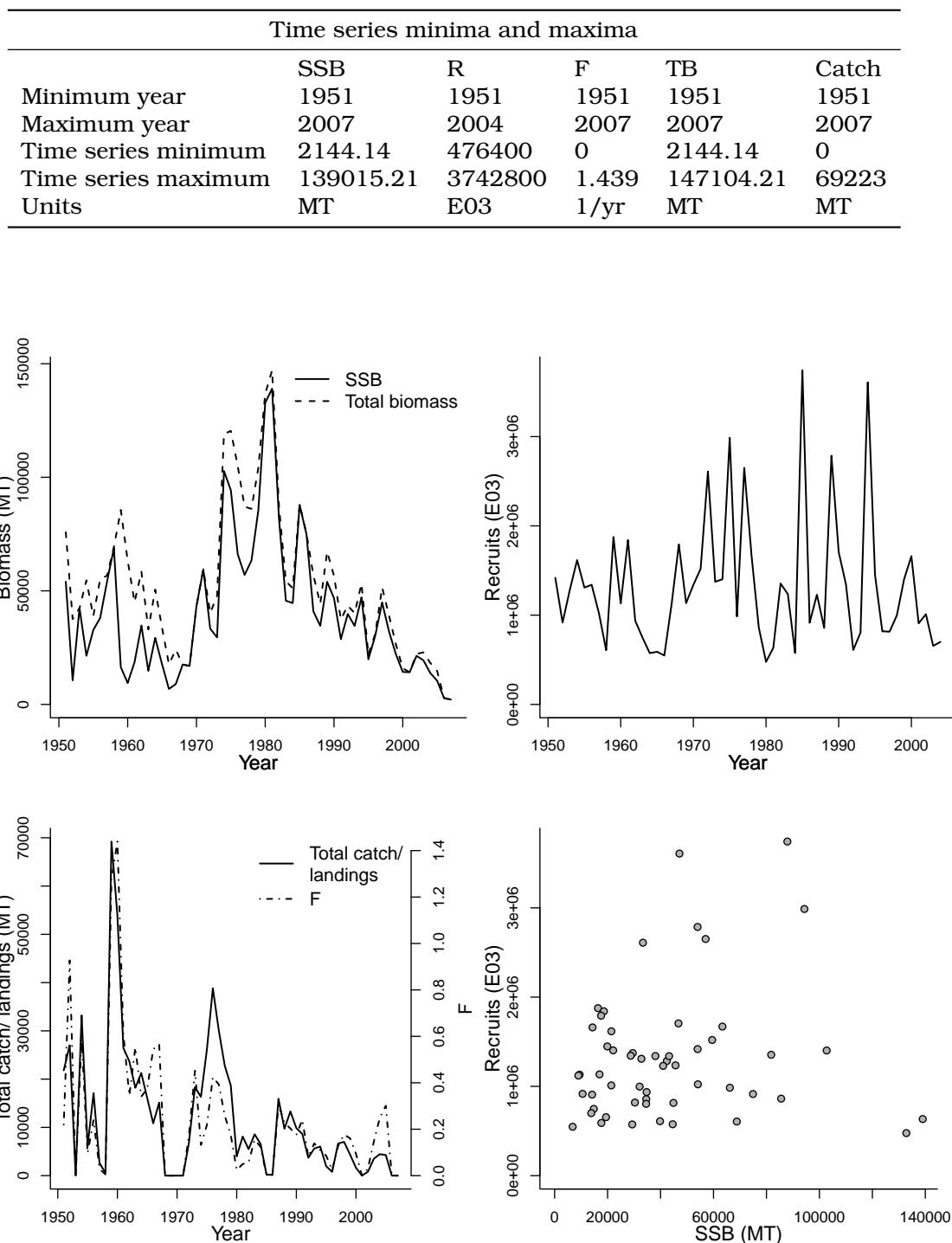
Area ID: Canada-DFO-WCVANI

## General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Schweigert, Jake
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2007
Timeseries span	1951-2007
Document	RES2007_002_e.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-07-29
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2009-05-13

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

primary LME	secondary LME	tertiary LME
2 - Gulf of Alaska	na	na
<hr/>		
Parameter	Value	Units
REC-AGE-yr	3	yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units



# Assessment of Hecate Strait pacific cod (*Gadus macrocephalus*)

Assessment ID:DFO-PAC-PCODHS-1956-2005-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/310>

Area ID: Canada-DFO-HS

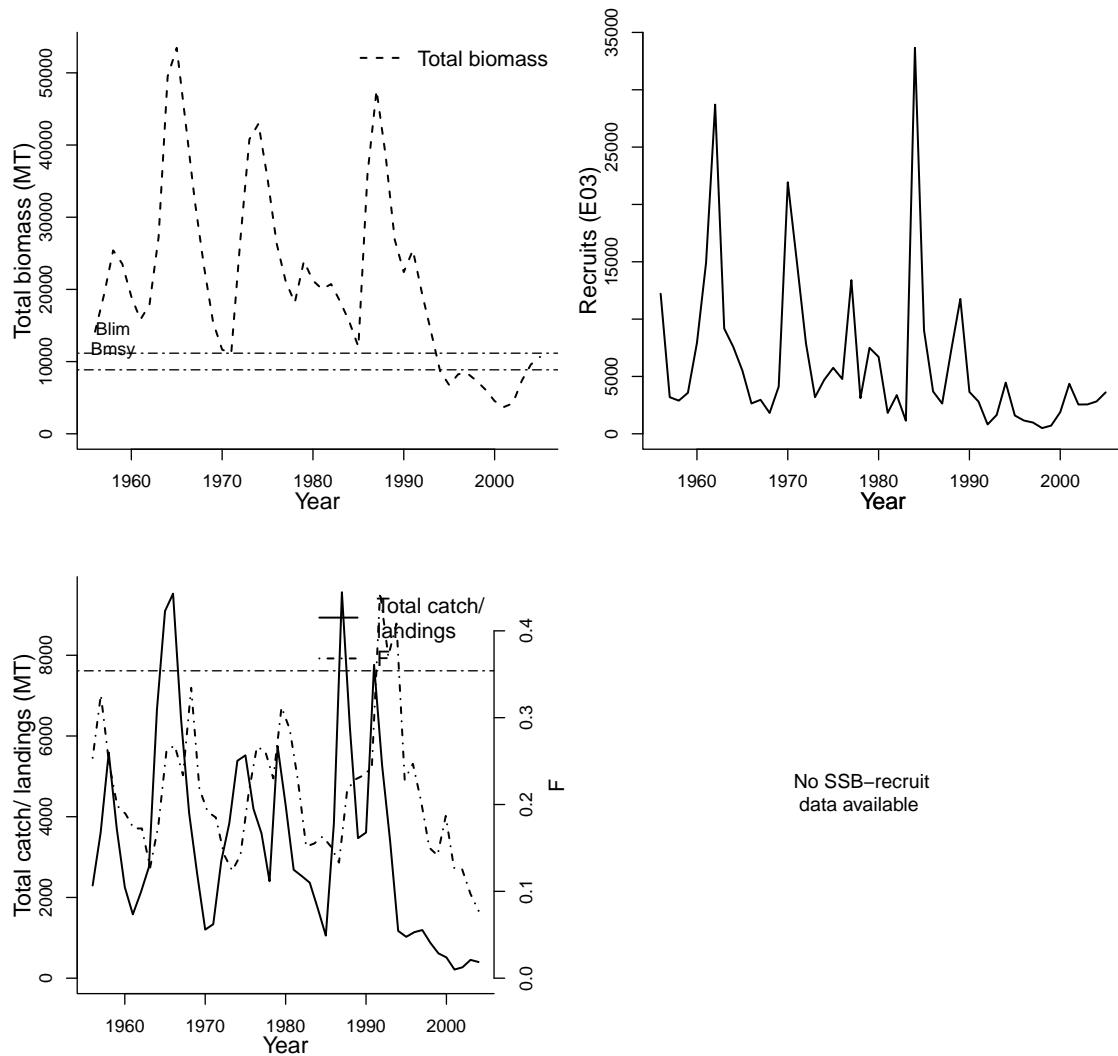
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Sinclair, A.F.
Assessment method	Delay difference model
Publication year	2005
Timeseries span	1956-2005
Document	RES2005_026_Cod.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-04-08
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2009-05-13

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

primary LME			secondary LME			tertiary LME		
2 - Gulf of Alaska			na			na		
Parameter	Value	Units	Reference points					
M-1/yr	0.567	1/yr	Parameter					
SSB-AGE-yr	2+	yr	Blim-MT (TB)	11165	MT			
SSB-SEX-sex	0	sex	Bmsy-MT (TB)	8861	MT			
REC-AGE-yr	2	yr	Fmsy-1/yr (F)	0.354	1/yr			
F-AGE-yr-yr	2+	yr-yr	Fext-1/yr (F)	1.586	1/yr			
TB-AGE-yr	2+	yr	$TB_{2005}/B_{m sy}$	1.202				
M			$F_{2003}/F_{m sy}$	0.219				
A50-yr								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year		1956	1956	1956	1956
Maximum year		2005	2003	2005	2004
Time series minimum	498	0.0775	3695	214	
Time series maximum	33659	0.4445	53470	9562	
Units	E03	1/T	MT	MT	



# Assessment of West Coast of Vancouver Island pacific cod (*Gadus macrocephalus*)

Assessment ID:DFO-PAC-PCODWCVANI-1956-2002-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/311>

Area ID: Canada-DFO-WCVANI

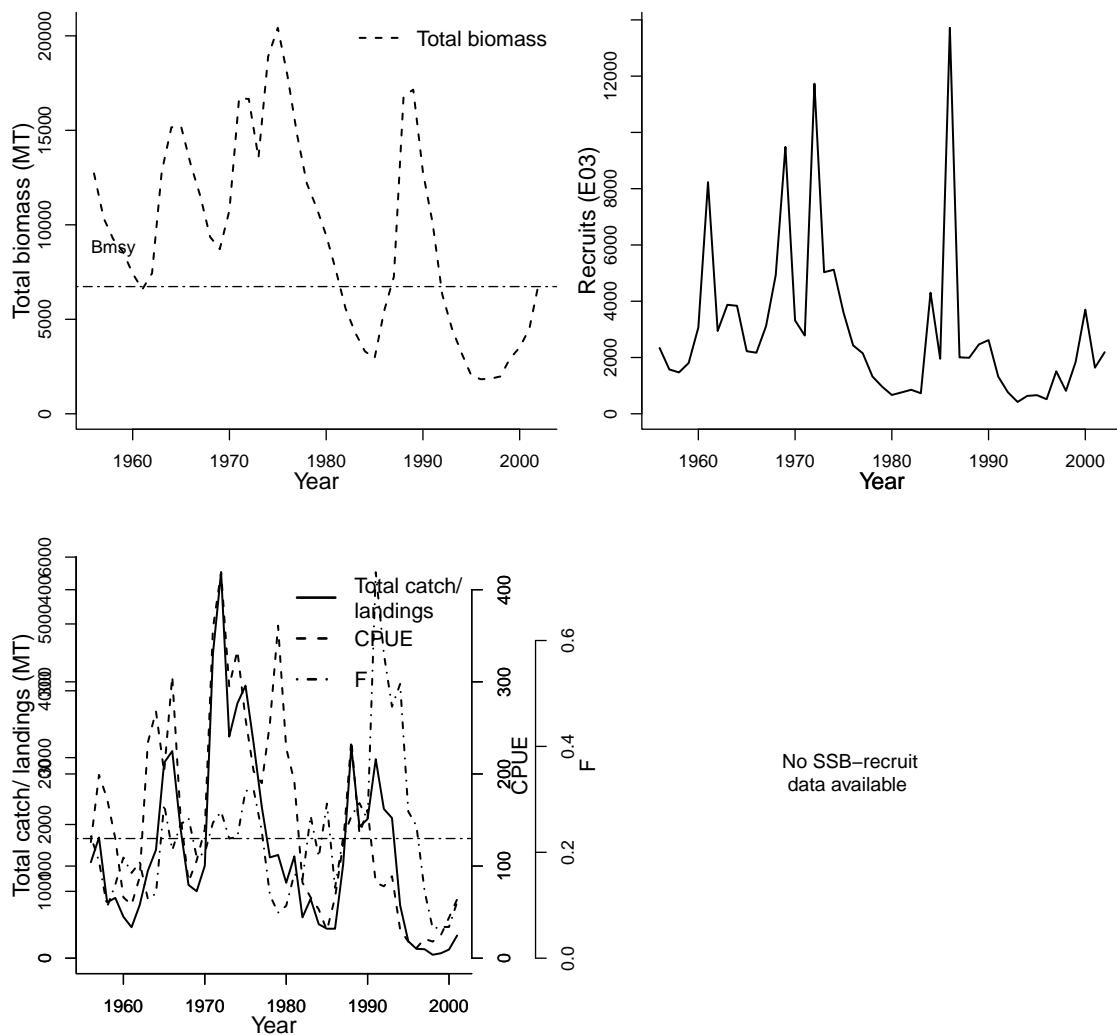
## General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Sinclair, A.F.
Assessment method	Delay difference model
Publication year	2002
Timeseries span	1956-2002
Document	2002-113.pdf (pdf not in database)
Recorder	COLLIE
Date entered	2008-04-13
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2009-05-13

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

primary LME			secondary LME			tertiary LME		
2 - Gulf of Alaska			na			na		
Parameter	Value	Units	Reference points					
M-1/yr	0.579	1/yr	Parameter	Value	Units			
SSB-AGE-yr	2+	yr	Bmsy-MT (TB)	6731	MT			
SSB-SEX-sex	0	sex	Fmsy-1/yr (F)	0.226	1/yr			
REC-AGE-yr	2	yr	Fext-1/yr (F)	0.539	1/yr			
F-AGE-yr-yr	2+	yr-yr	$TB_{2002}/B_{msy}$	1.037				
TB-AGE-yr	2+	yr	$F_{2001}/F_{msy}$	0.469				
M								
A50-yr								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year		1956	1956	1956
Maximum year		2002	2001	2002
Time series minimum	420	0.056	1827	51
Time series maximum	13718	0.729	20426	5774
Units	E03	1/T	MT	MT



# Assessment of Hecate Strait rock sole

## (*Lepidopsetta bilineata*)

Assessment ID:DFO-PAC-RSOLEHSTR-1945-2001-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/107>

Area ID: Canada-DFO-HS

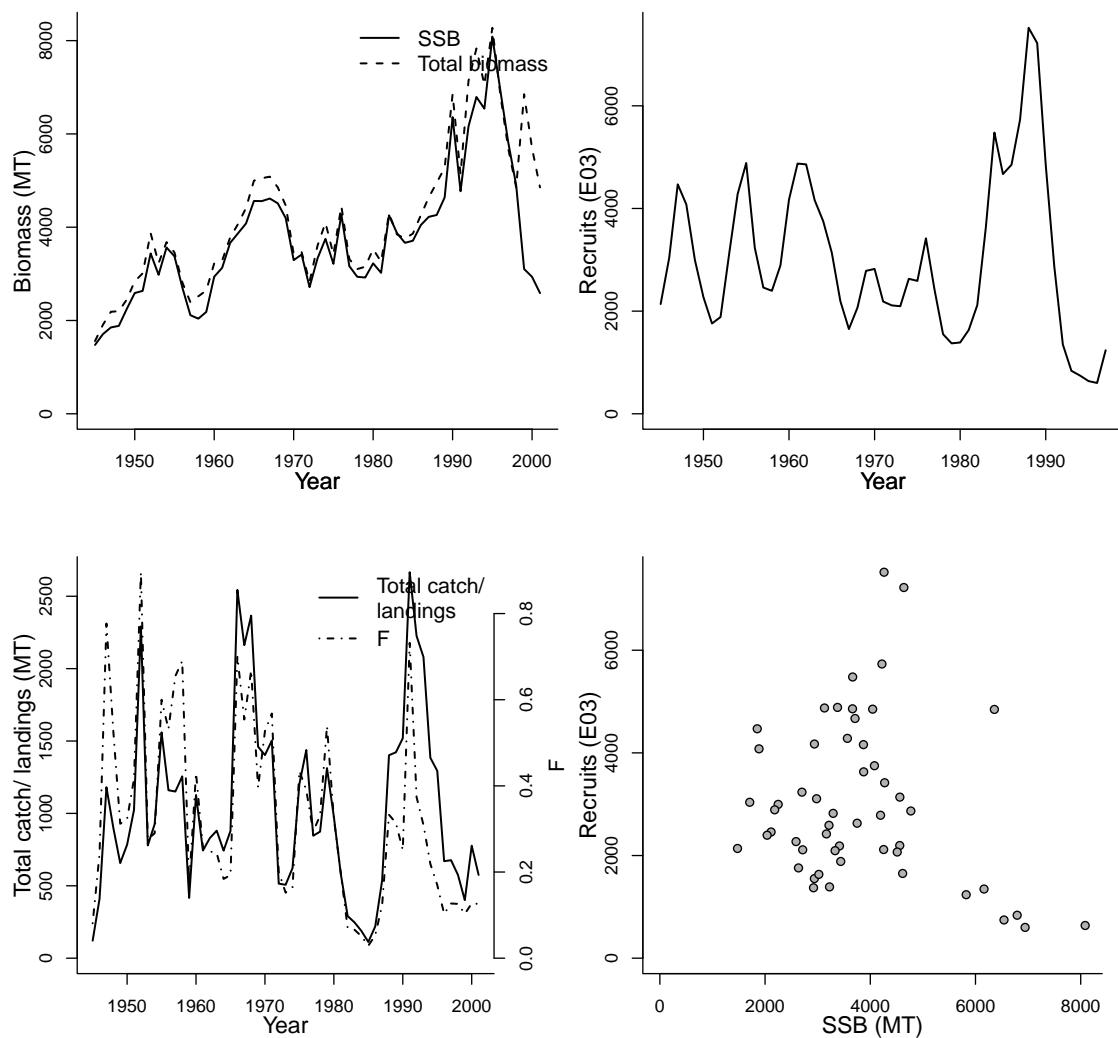
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Fargo, Jeff
Assessment method	State-space catch at age time series analysis
Publication year	1999
Timeseries span	1945-2001
Document	Flat99.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-04-21
Date last loaded	2009-05-14
QA/QC complete	YES
Date approved	2009-05-13

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

primary LME	secondary LME	tertiary LME
2 - Gulf of Alaska	na	na
Parameter Value Units		
M-1/yr	0.2	1/yr
SSB-SEX-sex	0	sex
TB-AGE-yr	4+	yr
REC-AGE-yr	4	yr
SSB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
Reference points		
Parameter	Value	Units
F0.1-1/yr (F)	0.22	1/yr

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1945	1945	1945	1945	1945
Maximum year	2001	1997	2001	2001	2001
Time series minimum	1476	600	0.029	1559	112
Time series maximum	8085	7520	0.896	8275	2666
Units	MT	E03	1/yr	MT	MT



# Assessment of Pacific Coast of Canada sablefish (*Anoplopoma fimbria*)

Assessment ID:DFO-PAC-SABLEFPCAN-1913-2004-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/454>

Area ID: Canada-DFO-PCOAST

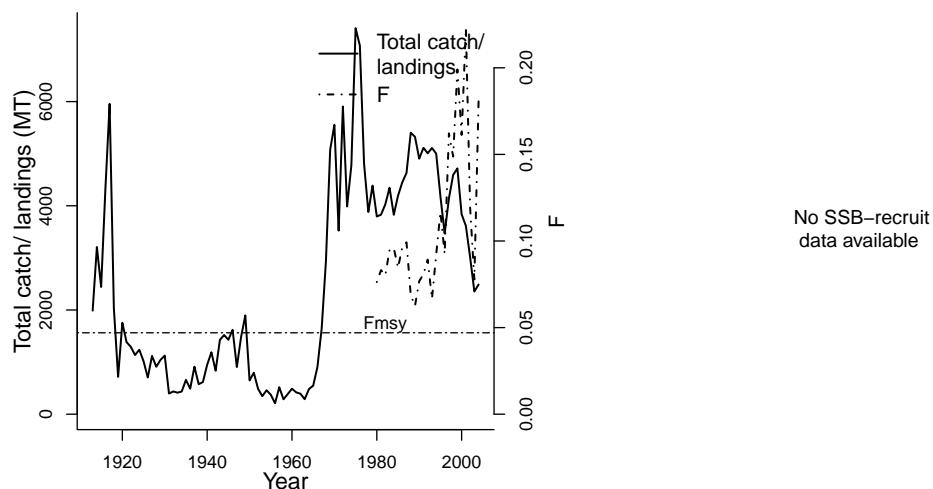
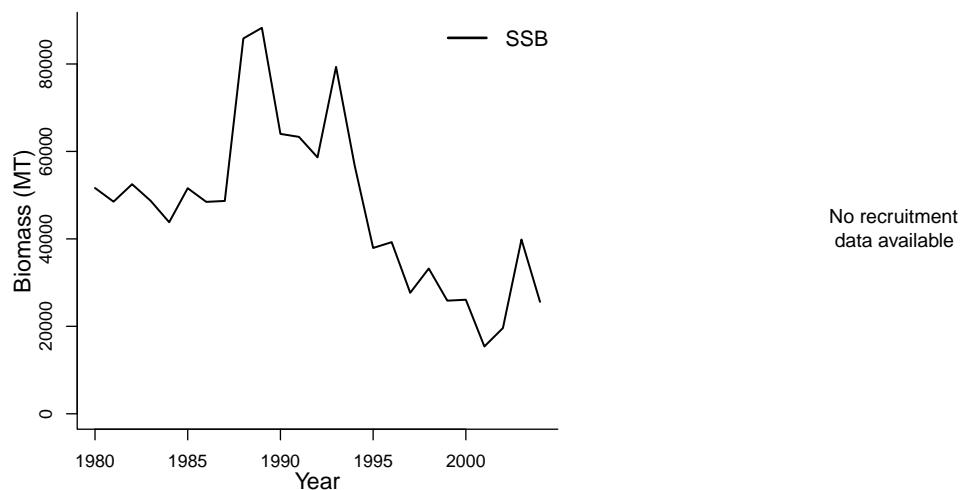
## General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Haist, V
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1913-2004
Document	BC-Sablefish.pdf (pdf in database)
Recorder	STANTON
Date entered	2010-05-06
Date last loaded	2011-02-24
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		
2 - Gulf of Alaska			na			na		
Parameter	Value	Units	Reference points					
SSB-SEX-sex	1	sex	Parameter		Value		Units	
REC-AGE			Fmsy-1/yr (F)		0.047		1/yr	
SSB-AGE-yr			SSBmssy-MT (SSB)		150534		MT	
TB-AGE-yr			$F_{2004}/F_{mssy}$		3.861			
F-AGE-yr			$SSB_{2004}/SSB_{mssy}$		0.170			
M								
A50-yr								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1980		1980		1913
Maximum year	2004		2004		2004
Time series minimum	15392.2		0.0625096863414862		209.3
Time series maximum	88273.1		0.222864228054185		7408.3
Units	MT		1/yr		MT



# Assessment of Scotian Shelf, Bay of Fundy and Georges Bank pollock (*Pollachius virens*)

Assessment ID:DFO-POLL4VWX5Zc-1974-2007-PREFONTAINE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/179>

Area ID: Canada-DFO-4VWX5Zc

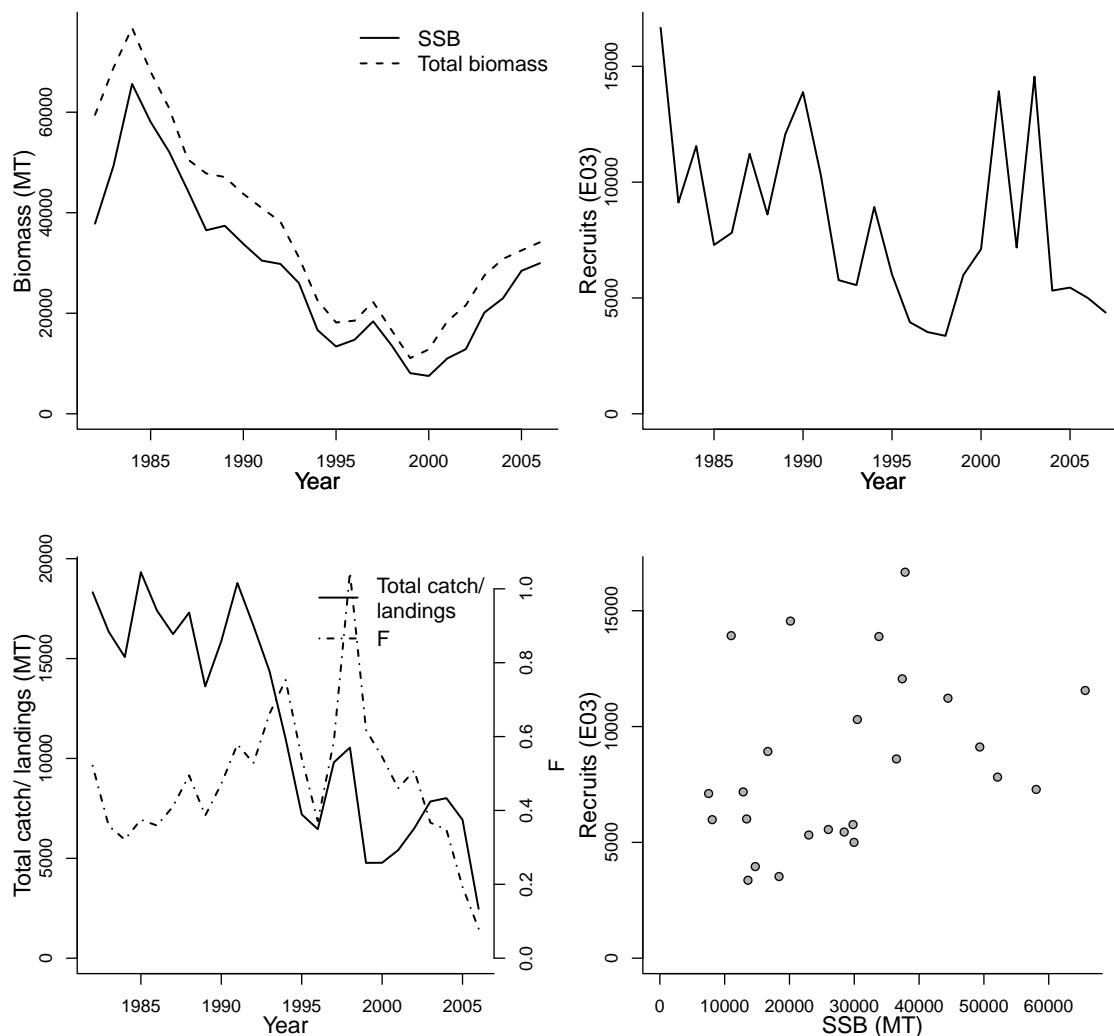
## General assessment details.

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	2008-05-29
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	8 - Scotian Shelf	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	4+	yr
REC-AGE-yr	2+	yr
F-AGE-yr-yr	4-9	yr-yr
M-1/T	0.2	1/T
SSB-SEX-sex		
TB-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units
Fref-1/T (F)	0.2	1/T

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



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

Assessment ID:DFO-QUE-COD3Pn4RS-1964-2007-PREFONTAINE  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/154>

Area ID: Canada-DFO-3Pn4RS

## General assessment details.

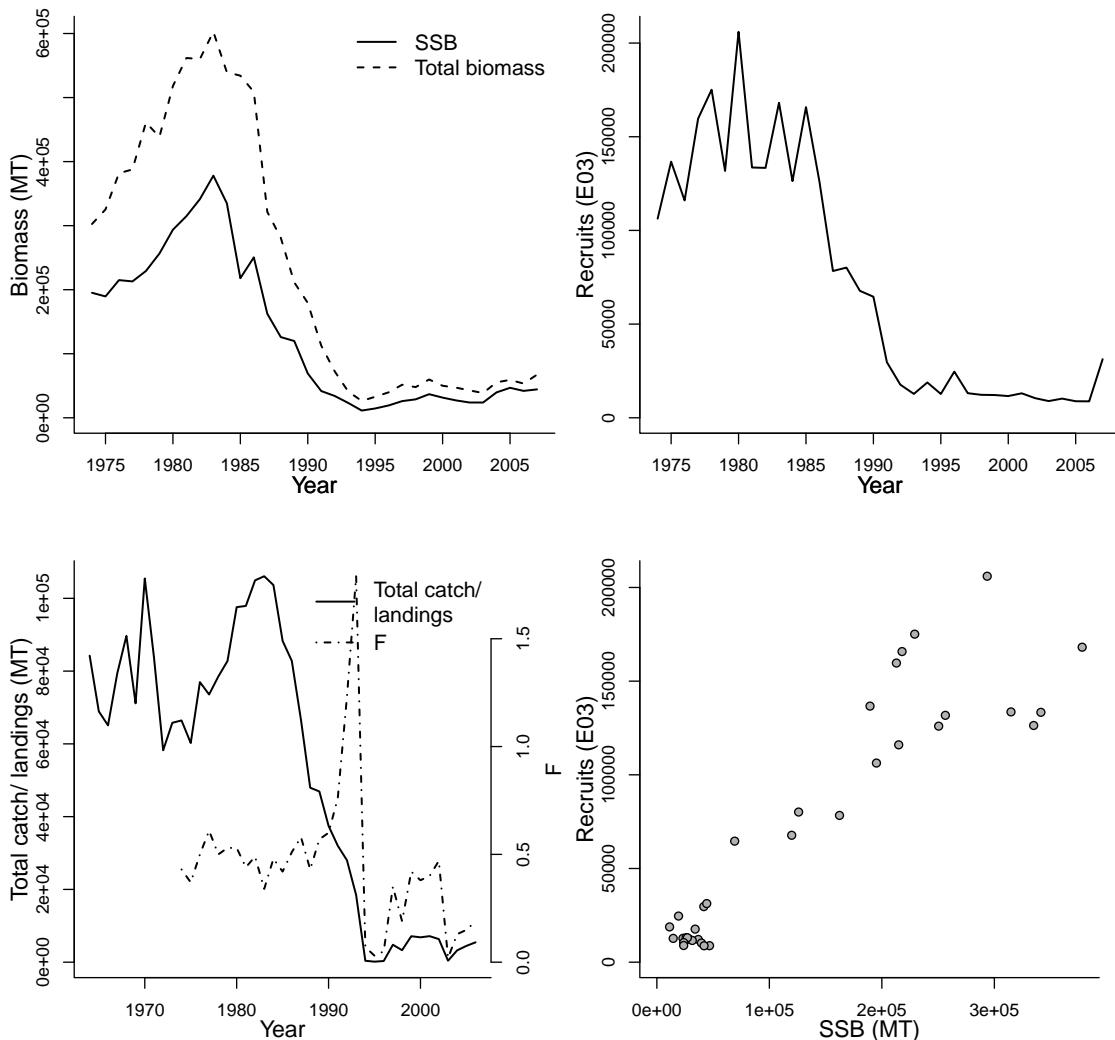
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Quebec Region
Assessment authors	Fréchet, Alain
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2007
Timeseries span	1964-2007
Document	DFO-COD3Pn4Rs-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-08-20
Date last loaded	2010-07-16
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
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	3+	yr
REC-AGE-yr	3	yr
F-AGE-yr-yr	7-10	yr-yr
A50-yr	4-5	yr
M-1/T	timeseries	1/T
SSB-SEX-sex		
TB-AGE-yr		
M		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units
MORATOR-yr-yr	1994-1996 AND 2003	yr-yr

## 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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/165>

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	2008-07-03
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
9 - Newfoundland-Labrador Shelf	8 - Scotian Shelf	na
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

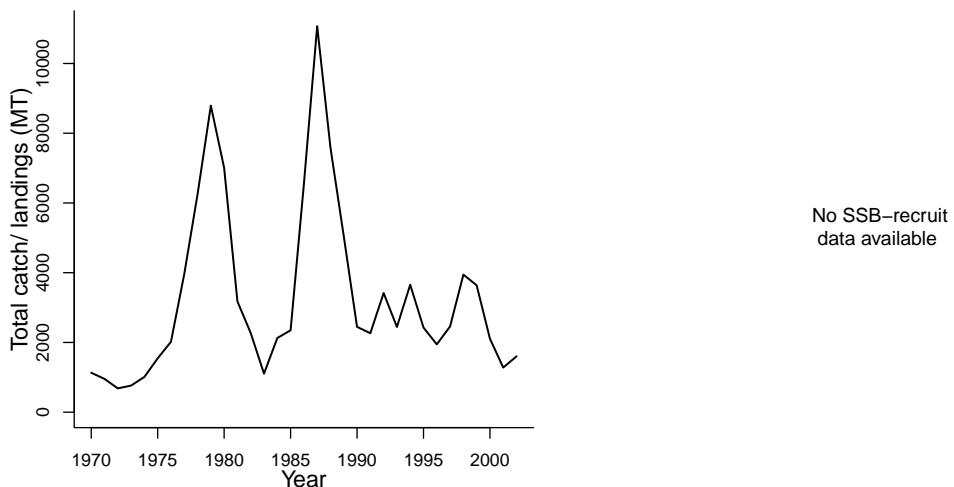
  

Reference points	Parameter	Value	Units

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

No biomass data available

No recruitment data available



No SSB-recruit data available

# Assessment of NAFO 4R herring (*Clupea harengus*)

Assessment ID:DFO-QUE-HERR4RFA-1971-2003-PREFONTAINE  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/167>

Area ID: Canada-DFO-4R

General assessment details.

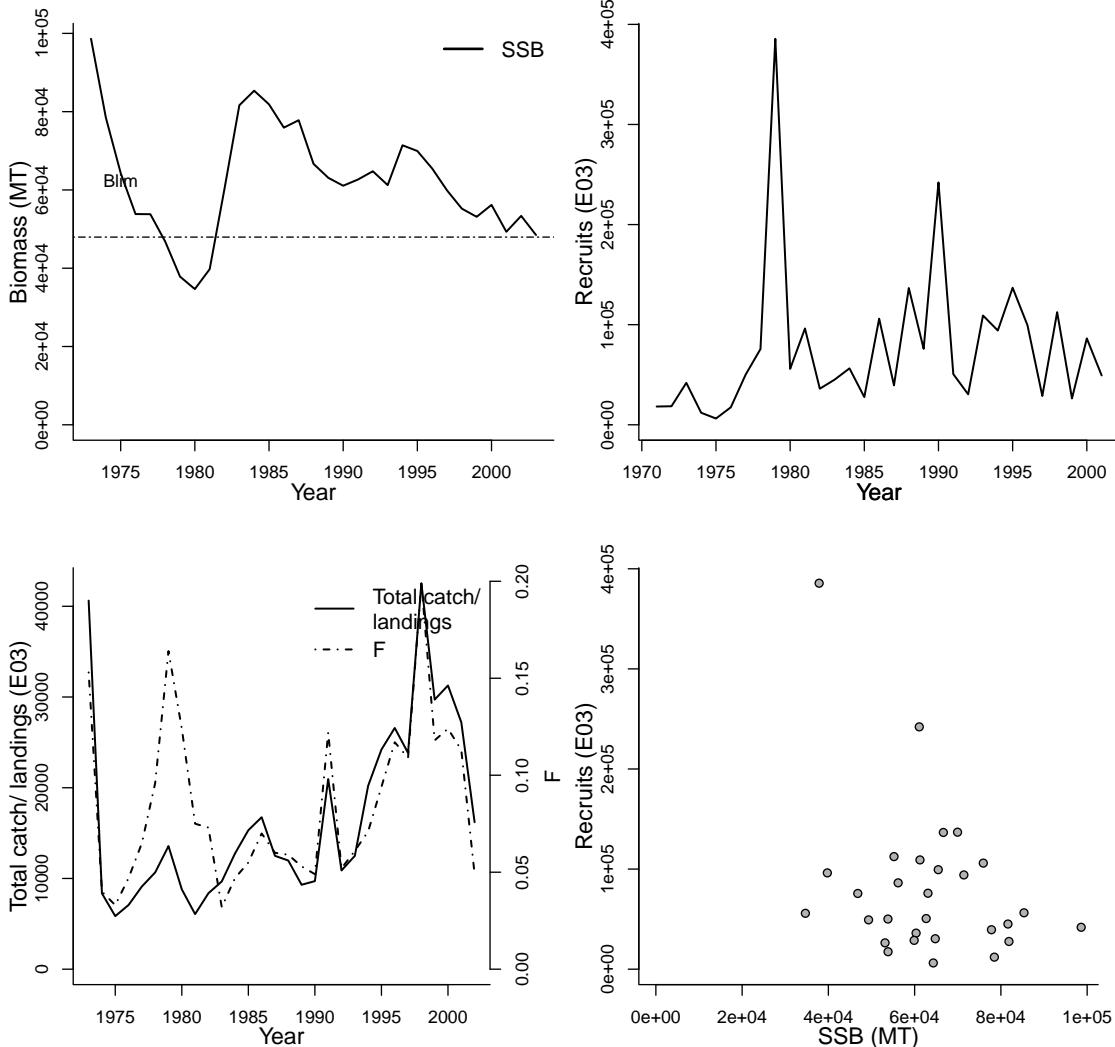
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Quebec Region
Assessment authors	Grégoire, François
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2004
Timeseries span	1971-2003
Document	NAFO-HERR4RSP-2004.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-05
Date last loaded	2010-07-14
QA/QC complete	YES
Date approved	2010-07-14

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	Parameter	Value
SSB-AGE-yr	2+	yr	Reference points	
REC-AGE-yr	2	yr	Parameter	Value
F-AGE-yr-yr	4+	yr-yr		Units
A50-yr	03-Apr	yr	Blim-MT (TB)	47953
M-1/T	0.2	1/T	F0.1-1/yr (F)	0.3
SSB-SEX-sex			Fmax-1/yr (F)	0.55
TB-AGE-yr			Bbuf-MT (TB)	57453
M				MT
L50-cm				

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1973	1971	1973		1973
Maximum year	2003	2001	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-1963-2004-PREFONTAINE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/168>

Area ID: Canada-DFO-4R

General assessment details.

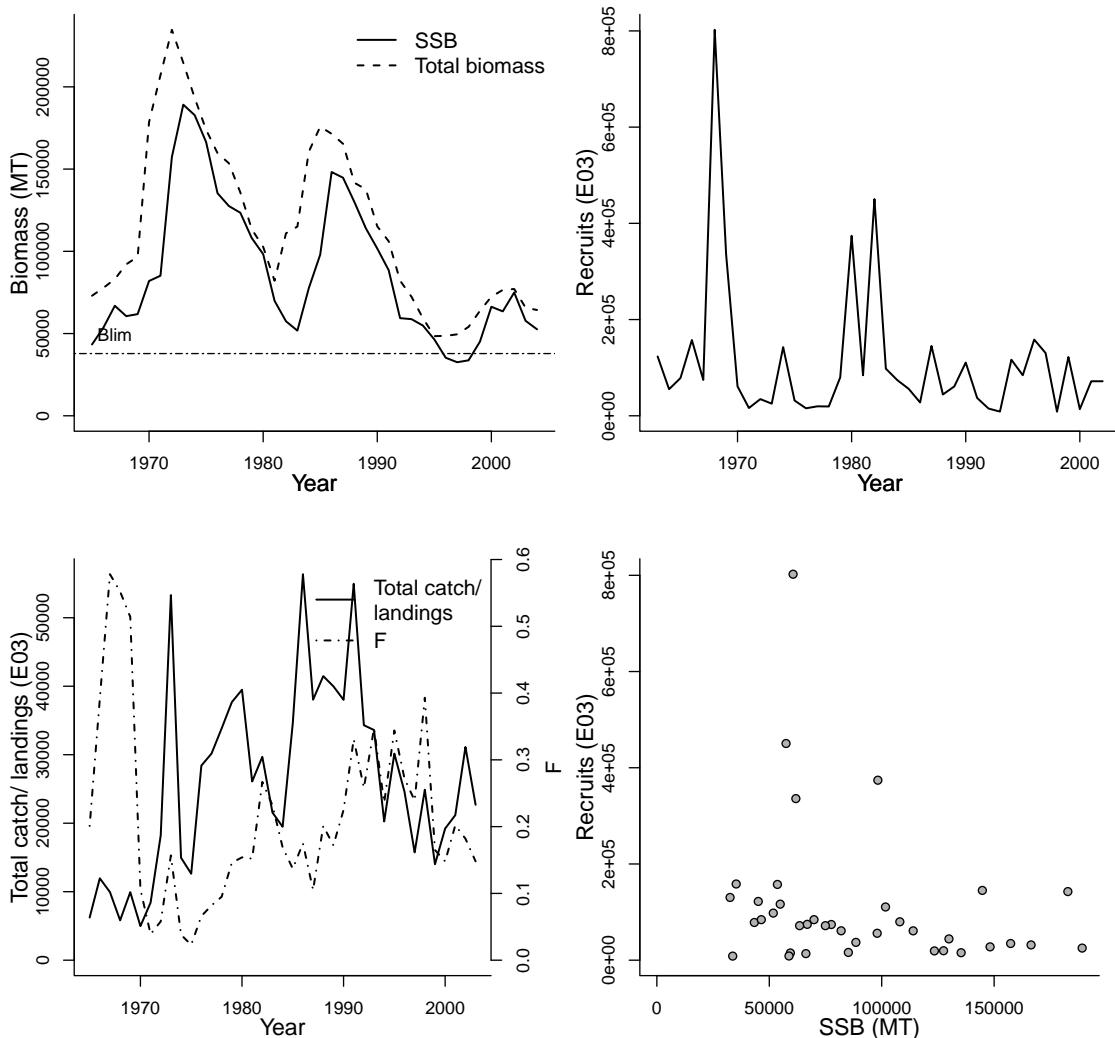
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Quebec Region
Assessment authors	Grégoire, François
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2004
Timeseries span	1963-2004
Document	NAFO-HERR4RSP-2004.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-05-30
Date last loaded	2010-07-14
QA/QC complete	YES
Date approved	2010-07-14

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	2+	yr		
REC-AGE-yr	2	yr		
F-AGE-yr-yr	4+	yr-yr	Reference points	
A50-yr	3-4	yr	Parameter	Value
M-1/T	0.2	1/T	Blim-MT (TB)	37831
SSB-SEX-sex			F0.1-1/yr (F)	MT
TB-AGE-yr			Fmax-1/yr (F)	0.3
M			Bbuf-MT (TB)	1/yr
L50-cm				57453

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1965	1963	1965	1965	1965
Maximum year	2004	2002	2003	2004	2003
Time series minimum	32559	8533	0.023	48431	4983
Time series maximum	189156	802298	0.578	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  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/176>

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	NAFO-RED3Pn4RSTVn.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-25
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
9 - Newfoundland-Labrador Shelf	8 - Scotian Shelf	na
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

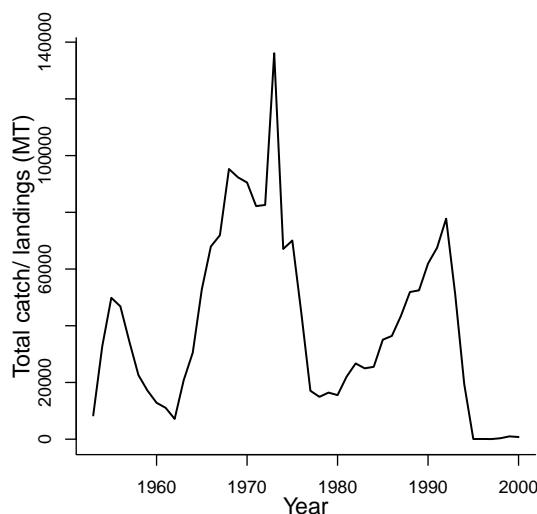
Reference points		
Parameter	Value	Units
MORATOR-yr-yr	1995-PRESENT	yr-yr

Time series minima and maxima				
	SSB	R	F	TB
Minimum year				1953
Maximum year				2000
Time series minimum				39
Time series maximum				136101
Units				MT

No biomass data available

No recruitment data available

No SSB-recruit data available



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

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

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

Area ID: Canada-DFO-4T

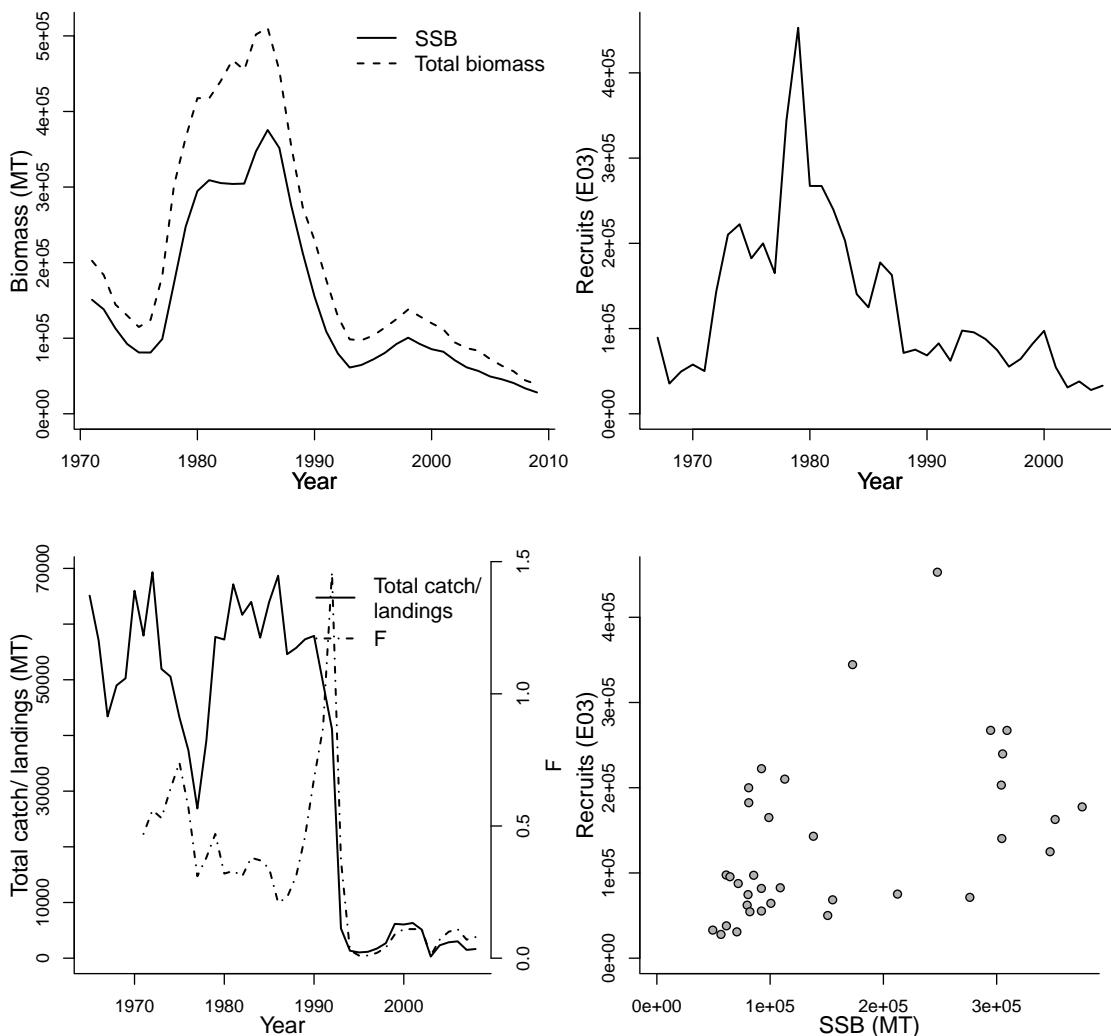
## General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Southern Gulf Region
Assessment authors	Swain, D.P.
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2009
Timeseries span	1965-2009
Document	Swain2009-Assessment-of-Southern-Gulf-Cod.pdf (pdf in database)
Recorder	RICARD
Date entered	2011-03-01
Date last loaded	2011-03-01
QA/QC complete	YES
Date approved	2011-03-01

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

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

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



# Assessment of Southern Gulf of St. Lawrence herring (*Clupea harengus*)

Assessment ID:DFO-SG-HERR4TFA-1974-2007-PREFONTAINE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/169>

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	1974-2007
Document	NAFO-HERR4TFA-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-05
Date last loaded	2010-07-14
QA/QC complete	YES
Date approved	2010-07-14

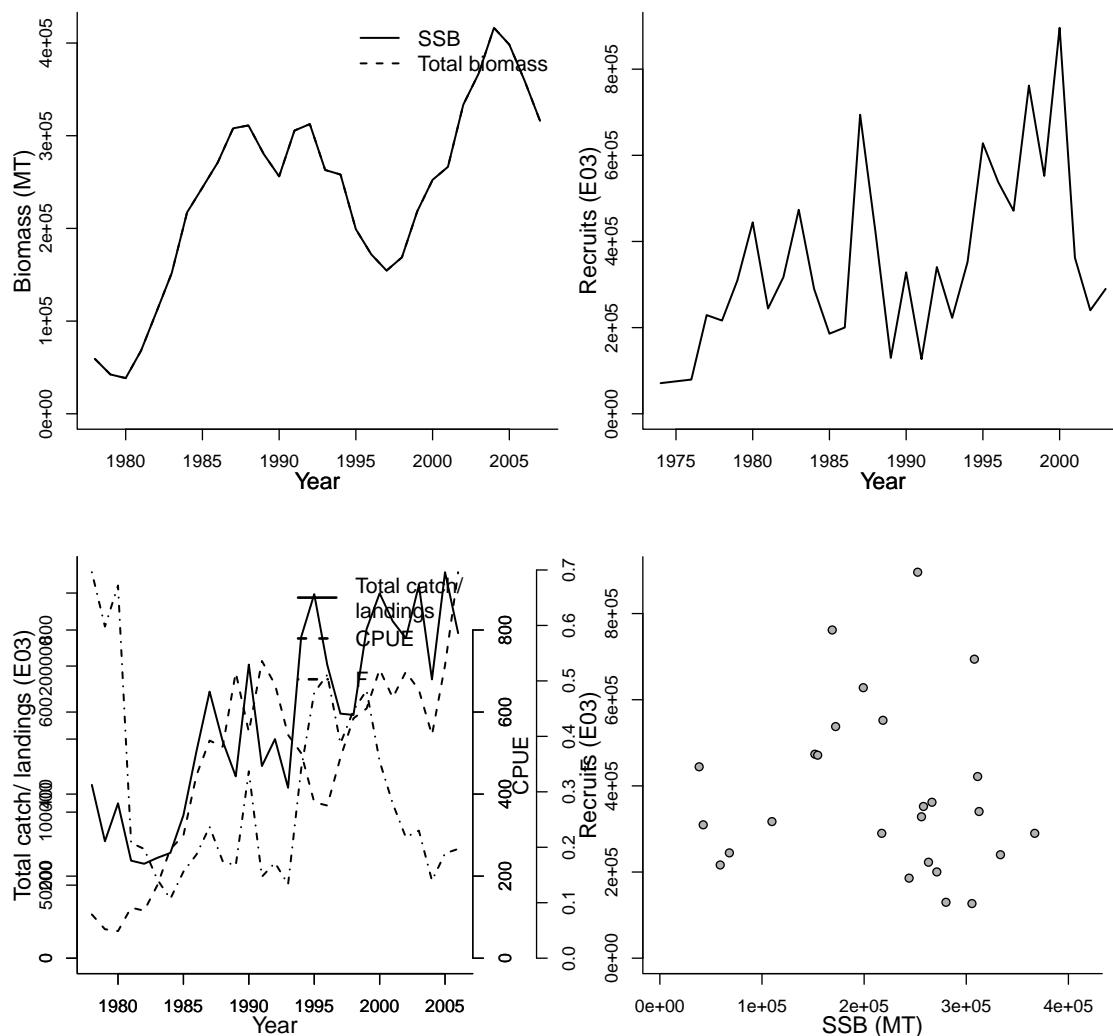
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units
SSB-AGE-yr	4+	yr
REC-AGE-yr	4	yr
F-AGE-yr-yr	5-10	yr-yr
TB-AGE-yr	4+	yr
M-1/T	0.2	1/T
SSB-SEX-sex		
M		
A50-yr		
L50-cm		

Parameter	Value	Units
Busr-MT	172000	MT
Blrp-MT	51000	MT
SSBrecov-MT	37000	MT

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1974	1978	1978
Maximum year	2007	2003	2006	2007
Time series minimum	38470.25	71101	0.107	38470
Time series maximum	416422.04	896001	0.696	416422
Units	MT	E03	1/T	MT
				E03



# Assessment of Southern Gulf of St. Lawrence herring (*Clupea harengus*)

Assessment ID:DFO-SG-HERR4TSP-1974-2007-PREFONTAINE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/170>

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	1974-2007
Document	NAFO-HERR4TFA-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-05
Date last loaded	2010-07-14
QA/QC complete	YES
Date approved	2010-07-14

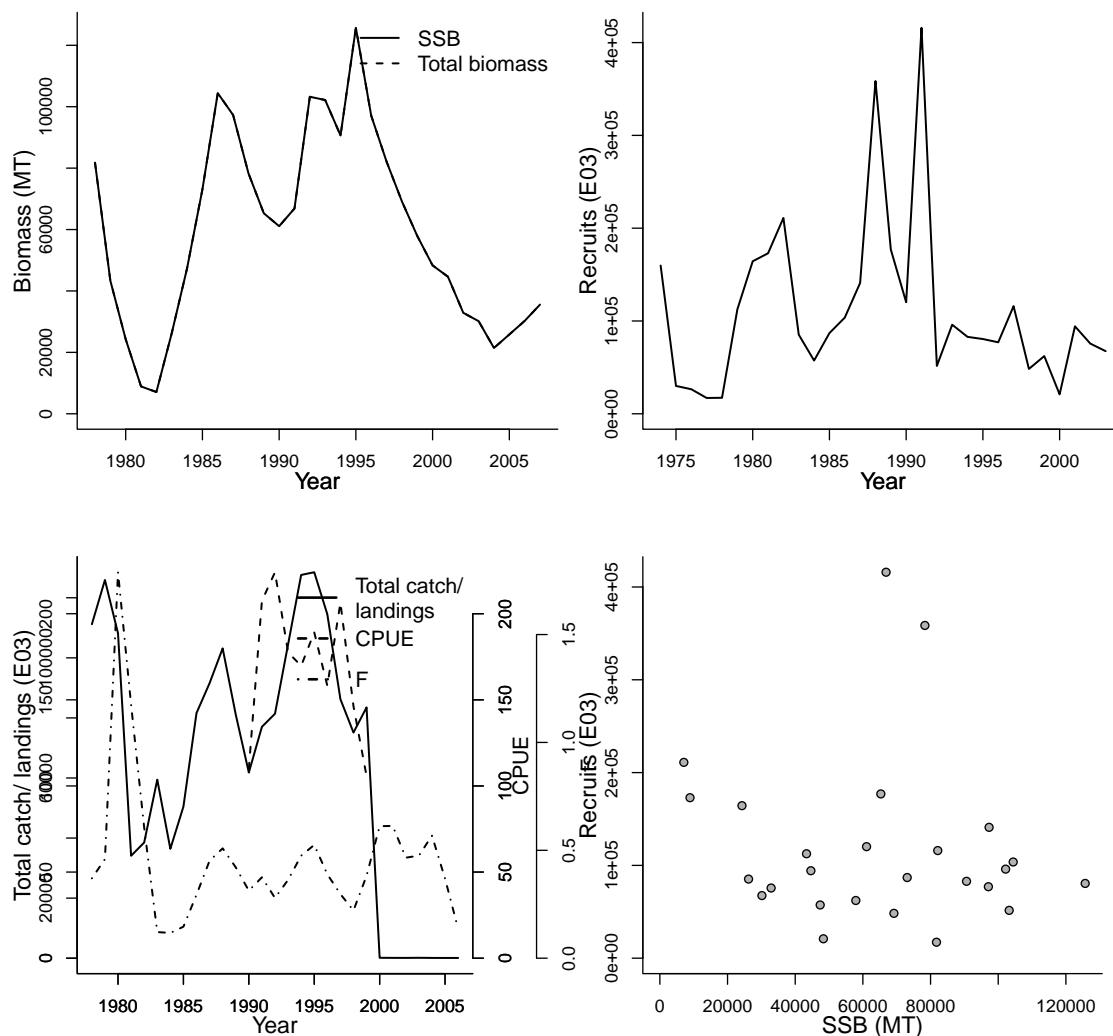
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units
SSB-AGE-yr	4+	yr
REC-AGE-yr	4	yr
F-AGE-yr-yr	6-8	yr-yr
TB-AGE-yr	4-10	yr
M-1/T	0.2	1/T
SSB-SEX-sex		
M		
A50-yr		
L50-cm		

Parameter	Value	Units
F0.1-1/yr (F)	0.35	1/yr
Busr-MT	54000	MT
Blrp-MT	22000	MT
SSBrecovre-MT	11500	MT

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1974	1978	1978
Maximum year	2007	2003	2006	2007
Time series minimum	7084.78	17034	0.117	7085
Time series maximum	125697.55	415931	1.789	125698
Units	MT	E03	1/T	MT
				E03



# Assessment of Southern Gulf of St. Lawrence snow crab (*Chionoecetes opilio*)

Assessment ID:DFO-SG-SNOWCRABSGSL-1984-2007-ANDERSON  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/327>

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	Hbert, M
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1984-2007
Document	2008_040_b.pdf (pdf not in database)
Recorder	ANDERSON
Date entered	2009-05-06
Date last loaded	2009-12-03
QA/QC complete	NO
Date approved	

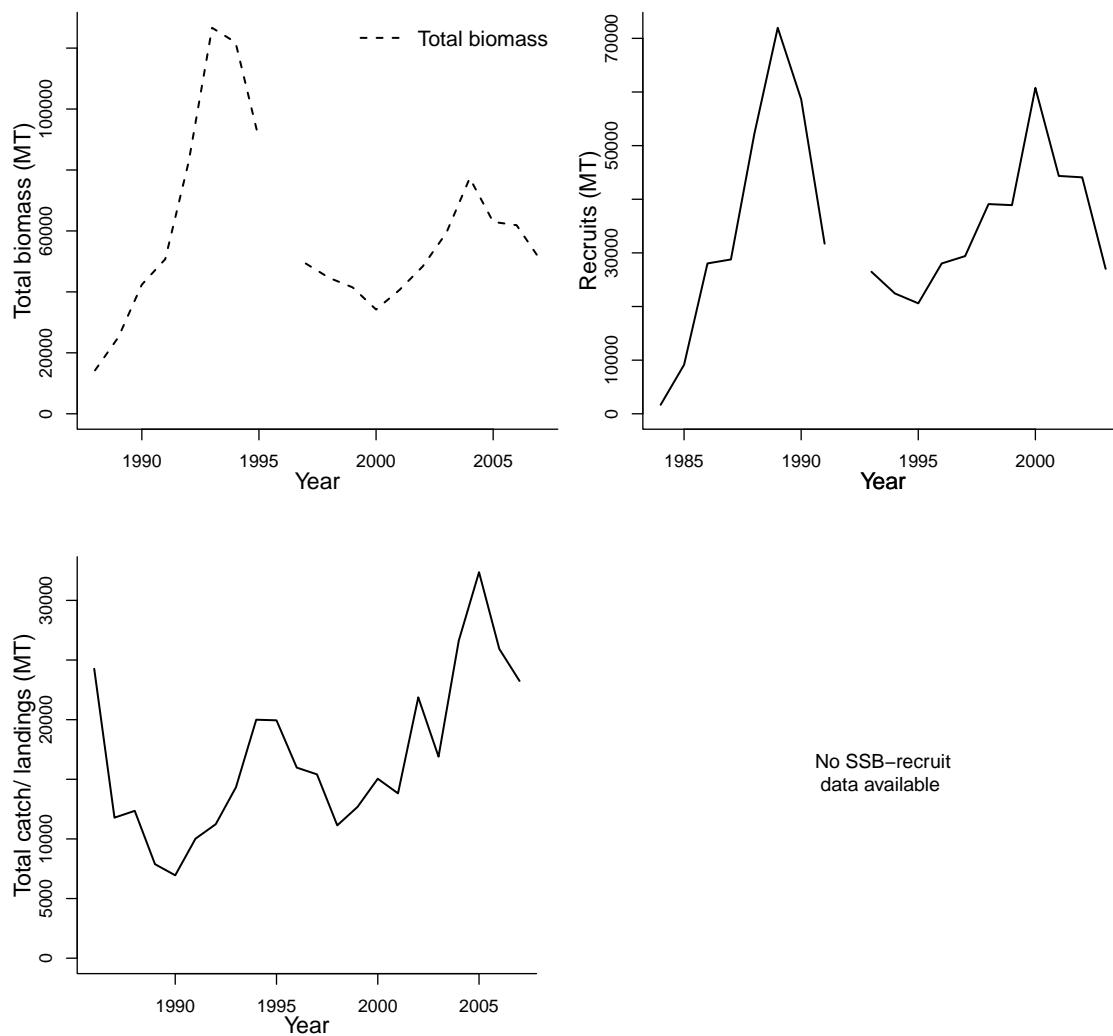
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
8 - Scotian Shelf	na	na
Parameter	Value	Units
TB-AGE-yr	4+	yr
M-1/T	0.28-0.48	1/T
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima				
	SSB	R	F	TB
Minimum year		1984		1988
Maximum year		2003		2007
Time series minimum	1676		14244	6950
Time series maximum	71969		126660	32363
Units	MT		MT	MT



# Assessment of 22-24-IIIa herring (*Clupea harengus*)

Assessment ID:HAWG-HERR2224IIIa-1991-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/369>

Area ID: multinational-ICES-22-24-IIIa

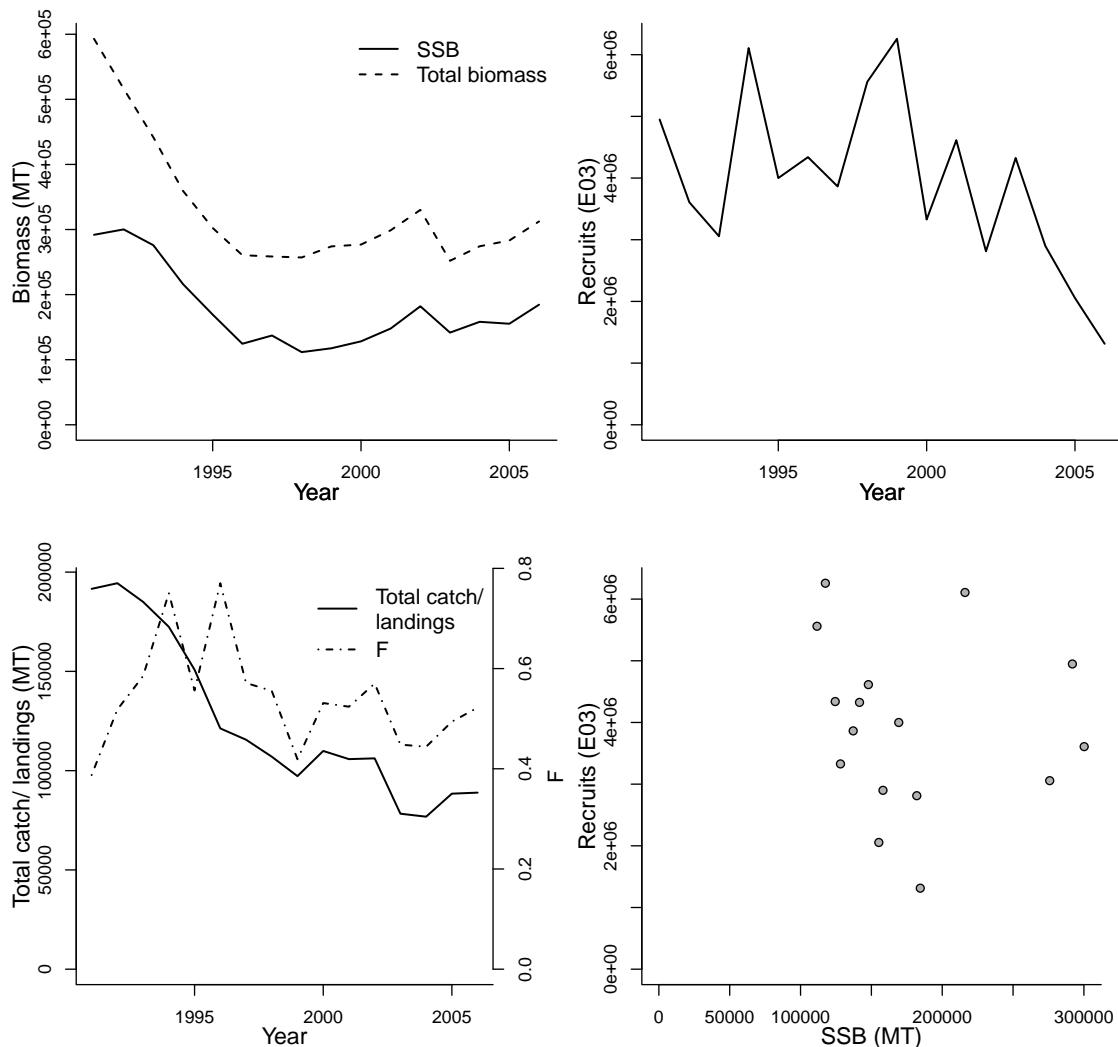
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for the Area South of 62N
Assessment authors	Anonymous
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1991-2006
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
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		
22 - North Sea	22 - North Sea	23 - Baltic Sea	na		
<hr/>					
Parameter	Value	Units			
A50-yr	2-3	yr			
SSB-AGE-yr	2+	yr			
REC-AGE-yr	0	yr	Reference points		
TB-AGE-yr	0+	yr	Parameter	Value	Units
F-AGE-yr-yr	3-6	yr-yr	F0.1-1/T	0.22	1/T
M-1/T	0.2 for 2+	1/T	Fmax-1/T	0.53	1/T
SSB-SEX-sex			<hr/>		
M					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1991	1991	1991	1991
Maximum year	2006	2006	2006	2006
Time series minimum	111615	1313450	0.3875	251938
Time series maximum	300193	6257570	0.7704	592997
Units	MT	E03	1/yr	MT



# Assessment of Irish Sea herring (*Clupea harengus*)

Assessment ID:HAWG-HERRNIRS-1960-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/77>

Area ID: multinational-ICES-VIIa

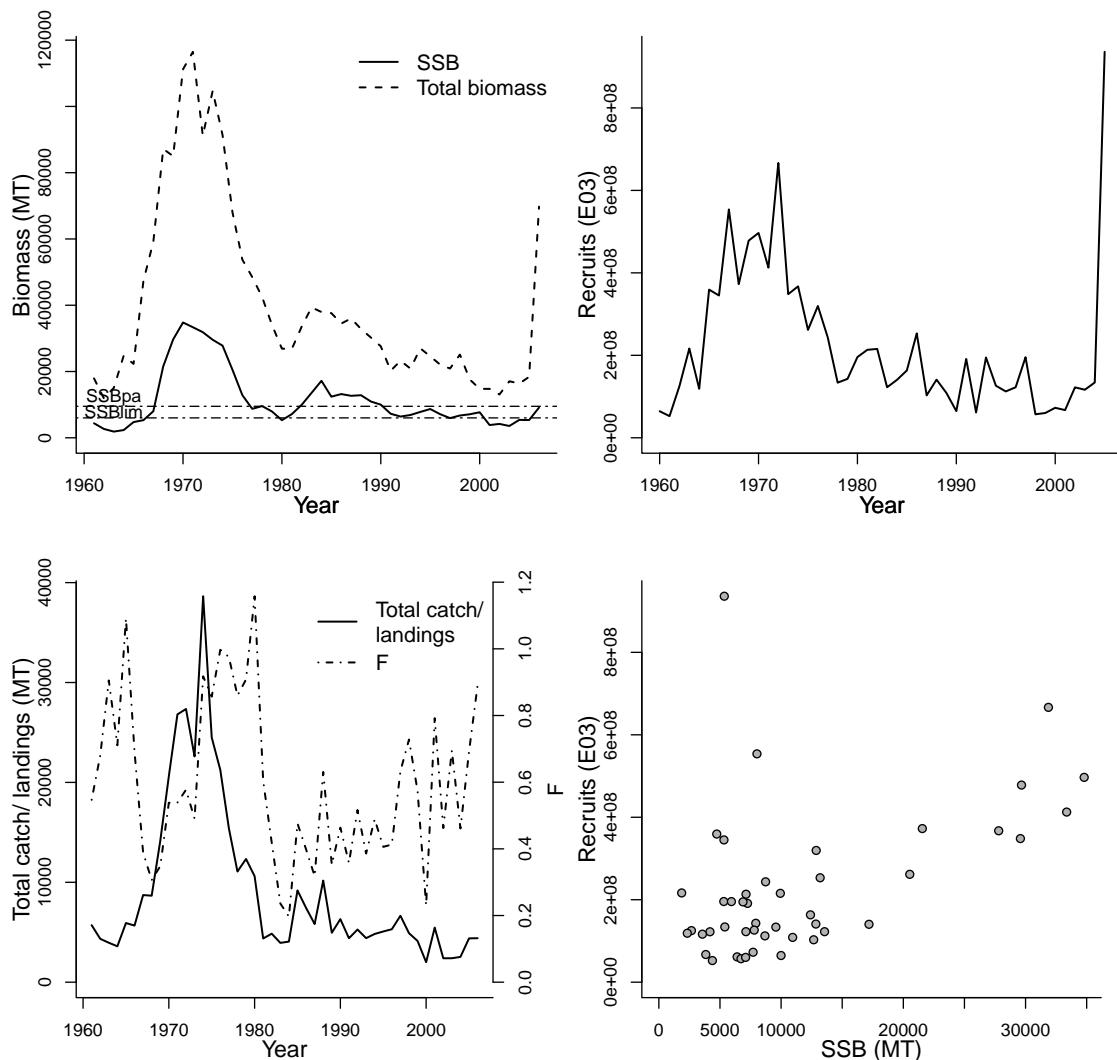
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for the Area South of 62N
Assessment authors	Anonymous
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1960-2006
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-26
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	Reference points
F-AGE-yr-yr	2 to 6	yr-yr	Parameter
TB-AGE-yr	1+	yr	Value
A50-yr	AVAILABLE	yr	Units
M-1/T	AVAILABLE	1/T	SSBlim-MT (SSB)
SSB-SEX-sex			6000 MT
M			SSBpa-MT (SSB)
L50-cm			9500 MT
			$SSB_{2006}/SSB_{lim}$
			1.519

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1961	1960	1961	1961	1961
Maximum year	2006	2005	2006	2006	2006
Time series minimum	1866	52490000	0.1966	11871	2002
Time series maximum	34796	936160000	1.1579	116486	38640
Units	MT	E03	1/T	MT	MT



# Assessment of North Sea herring (*Clupea harengus*)

Assessment ID:HAWG-HERRNS-1960-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/370>

Area ID: multinational-ICES-IV

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for the Area South of 62N
Assessment authors	Anonymous
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1960-2007
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2011-03-01
QA/QC complete	YES
Date approved	2009-06-08

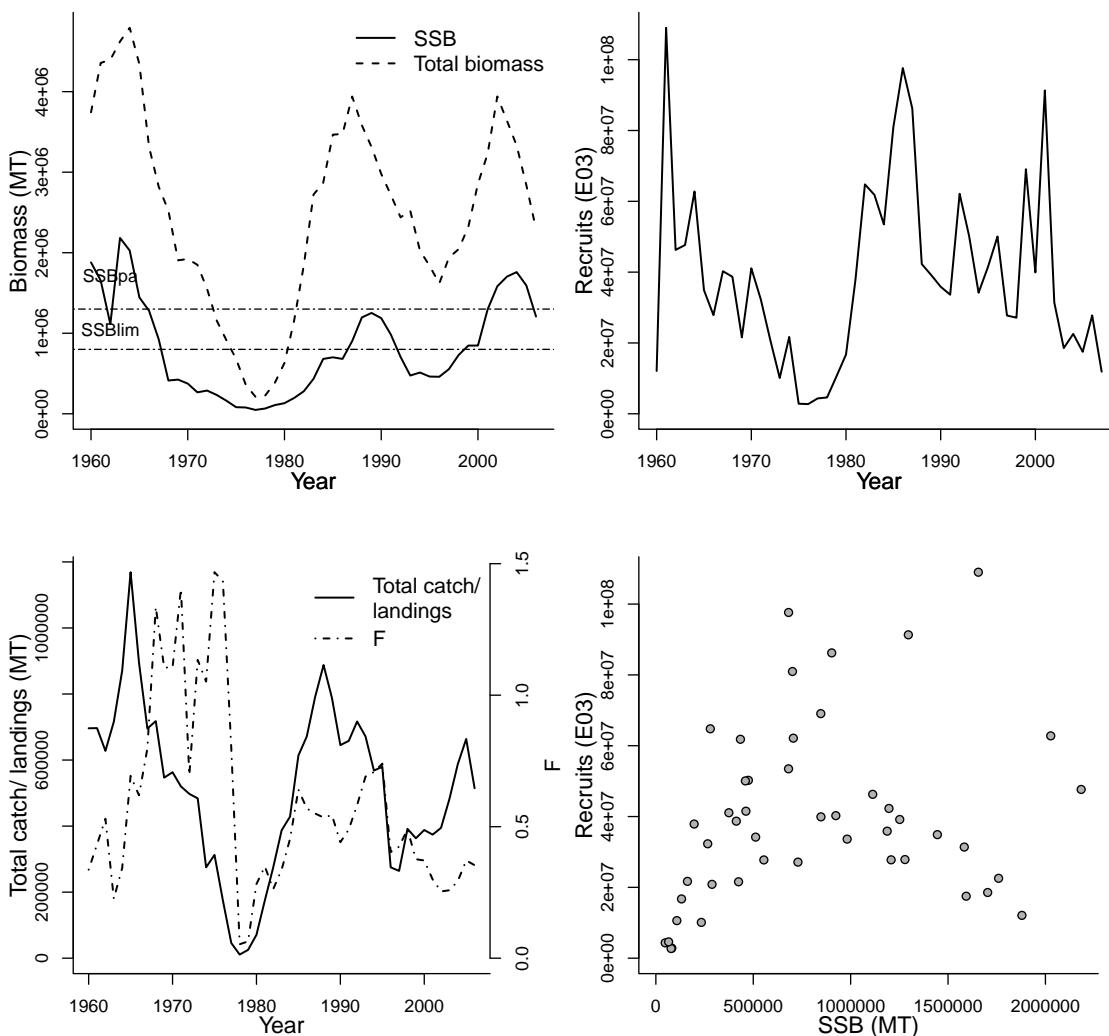
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			22 - North Sea	na	na
A50-yr	2	yr			
SSB-AGE-yr	2+	yr			
REC-AGE-yr	0	yr			
TB-AGE-yr	0+	yr			
F-AGE-yr-yr	2-6	yr-yr			
M-1/T	0.1 for 4+	1/T			
SSB-SEX-sex					
M					
L50-cm					

Parameter	Value	Units	Reference points
			Parameter
			Value
			Units
F0.1-1/T	0.22	1/T	
Fpa-1/T (F)	0.25	1/T	
SSBpa-MT (SSB)	1300000	MT	
SSBlim-MT (SSB)	800000	MT	
$SSB_{2006}/SSB_{lim}$	1.510		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1960	1960	1960	1960
Maximum year	2006	2007	2006	2006
Time series minimum	47975	2732610	0.053	211261
Time series maximum	2183501	109000000	1.4676	4792818
Units	MT	E03	1/T	MT



# Assessment of West of Scotland herring (*Clupea harengus*)

Assessment ID:HAWG-HERRVIa-1957-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/371>

Area ID: multinational-ICES-VIa

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for the Area South of 62N
Assessment authors	Anonymous
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1957-2006
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

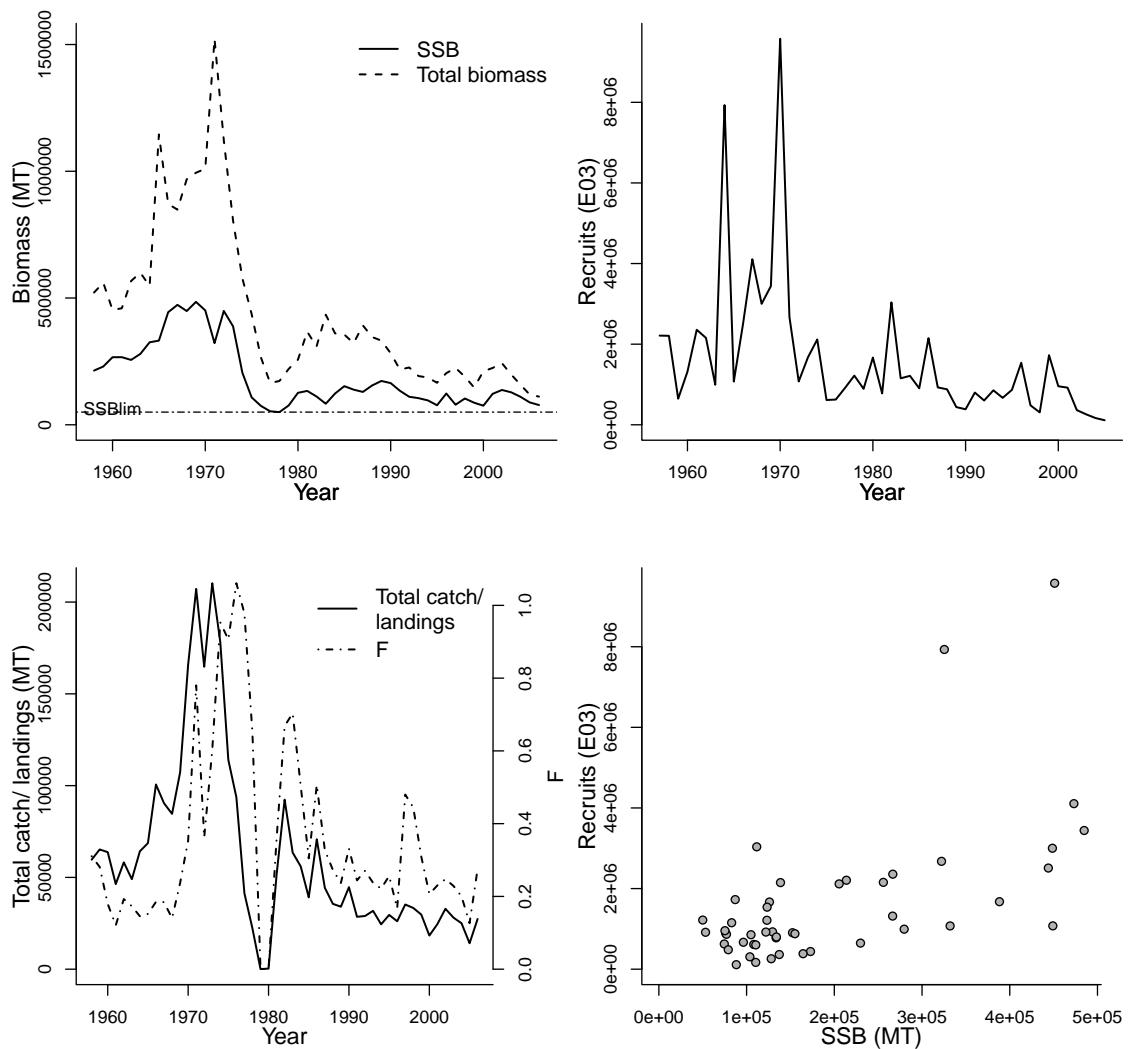
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		na	na
Parameter	Value	Units	
A50-yr	1-2	yr	
SSB-AGE-yr	2+	yr	Reference points
REC-AGE-yr	1	yr	Parameter
TB-AGE-yr	1+	yr	Value
F-AGE-yr-yr	3-6	yr-yr	Units
M-1/T	0.1 for 4+	1/T	
SSB-SEX-sex			
M			
L50-cm			

Parameter	Value	Units	
F0.1-1/T	0.17	1/T	
SSBlim-MT (SSB)	50000	MT	
$SSB_{2006}/SSB_{lim}$	1.556		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1958	1957	1958	1958
Maximum year	2006	2005	2006	2006
Time series minimum	50015	112240	0.0004	111054
Time series maximum	484835	9575740	1.0609	1522522
Units	MT	E03	1/T	MT



# Assessment of VIa, VIIb and VIIc herring (*Clupea harengus*)

Assessment ID:HAWG-HERRVIaVIIbc-1969-2000-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/372>

Area ID: multinational-ICES-VIa-VIIb-VIIc

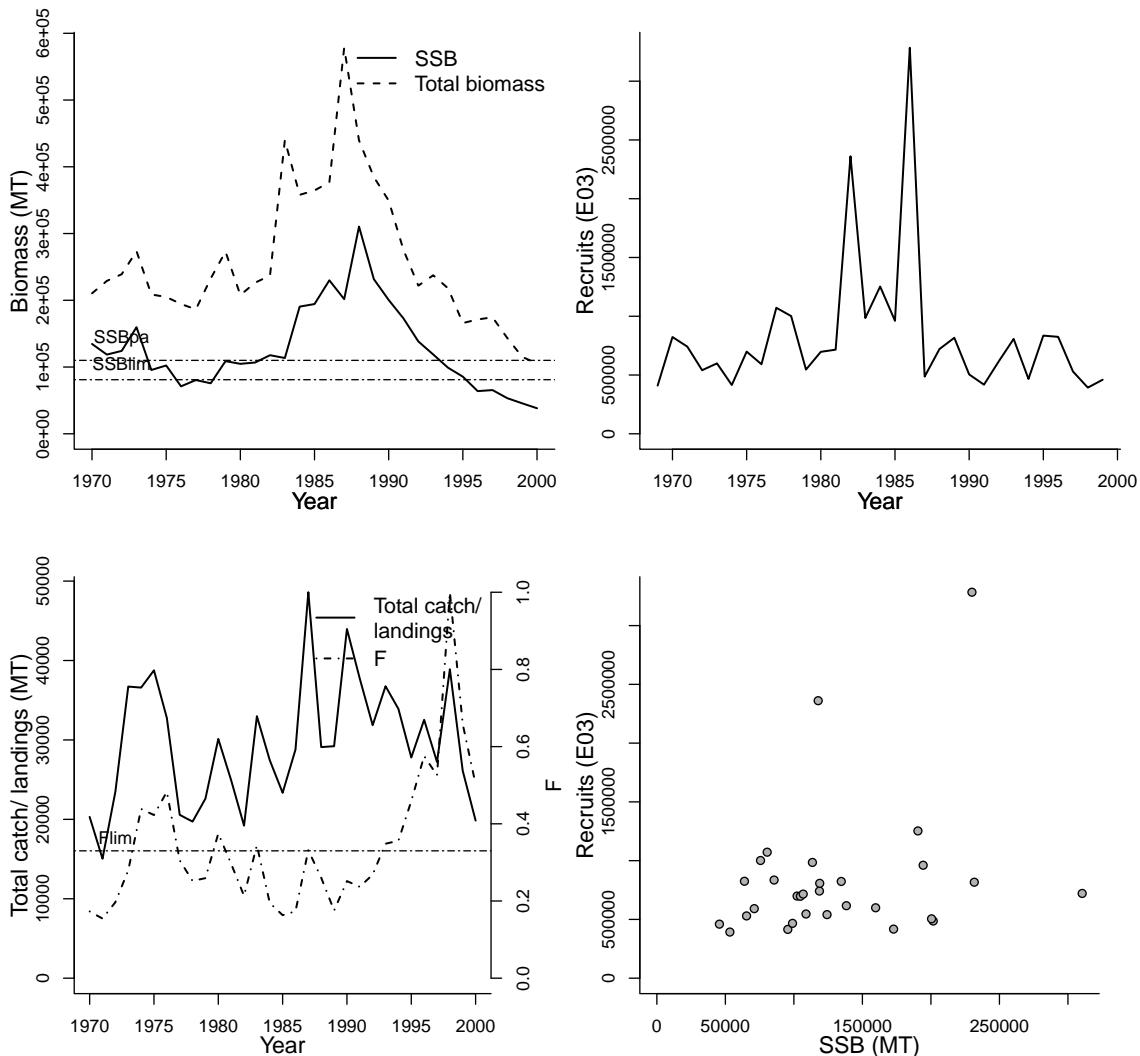
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for the Area South of 62N
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1969-2000
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2011-03-01
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
24 - Celtic-Biscay Shelf			na	na	
Parameter	Value	Units	Reference points		
A50-yr	1	yr	Parameter	Value	Units
SSB-AGE-yr	1+	yr	SSBlim-MT (SSB)	81000	MT
REC-AGE-yr	1	yr	SSBpa-MT (SSB)	110000	MT
TB-AGE-yr	1+	yr	Flim-1/T (F)	0.33	1/T
F-AGE-yr-yr	3-6	yr-yr	Fpa-1/T (F)	0.22	1/T
SSB-SEX-sex			$SSB_{2000}/SSB_{lim}$	0.472	
M			$F_{2000}/F_{lim}$	1.522	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1970	1969	1970	1970
Maximum year	2000	1999	2000	2000
Time series minimum	38246	392621	0.1545	105417
Time series maximum	310384	3284004	1.0001	578250
Units	MT	E03	1/T	MT



# Assessment of North Sea sprat (*Sprattus sprattus*)

Assessment ID:HAWG-SPRATNS-1995-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/373>

Area ID: multinational-ICES-IV

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for the Area South of 62N
Assessment authors	Anonymous
Assessment method	Catch-Survey Analysis (like a state space approach)
Publication year	2007
Timeseries span	1995-2007
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

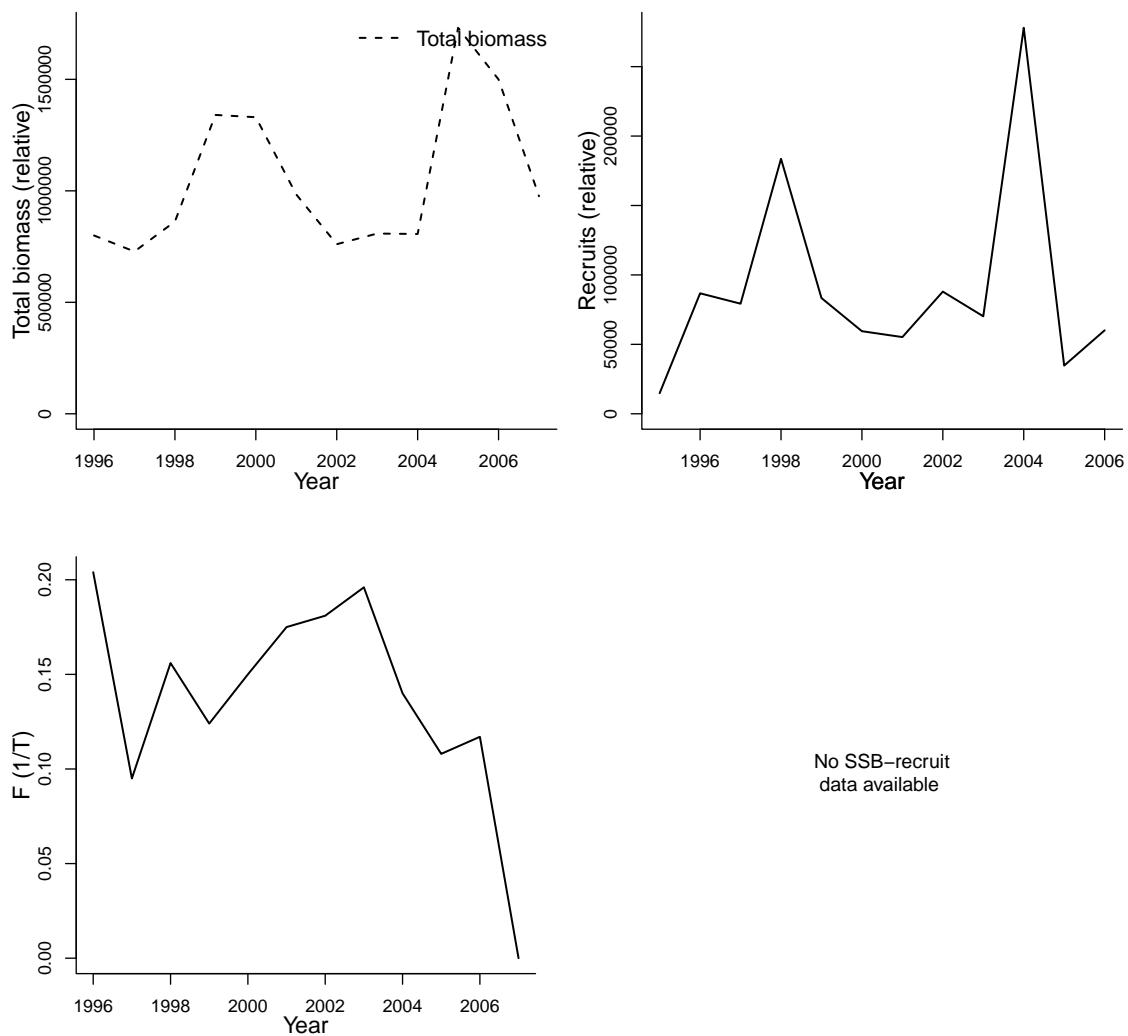
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units
SSB-AGE-yr	1+	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
M-1/T	0.75	1/T
A50-yr	0-1	yr
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points	Parameter	Value	Units

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year		1995	1996	1996	
Maximum year		2006	2007	2007	
Time series minimum	14821.9	0		727854	
Time series maximum	277968.1	0.204		1731263	
Units	relative		1/T	relative	



# Assessment of Eastern Pacific bigeye tuna (*Thunnus obesus*)

Assessment ID:IATTC-BIGEYEPAC-1975-2007-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/87>

Area ID: multinational-IATTC-EPAC

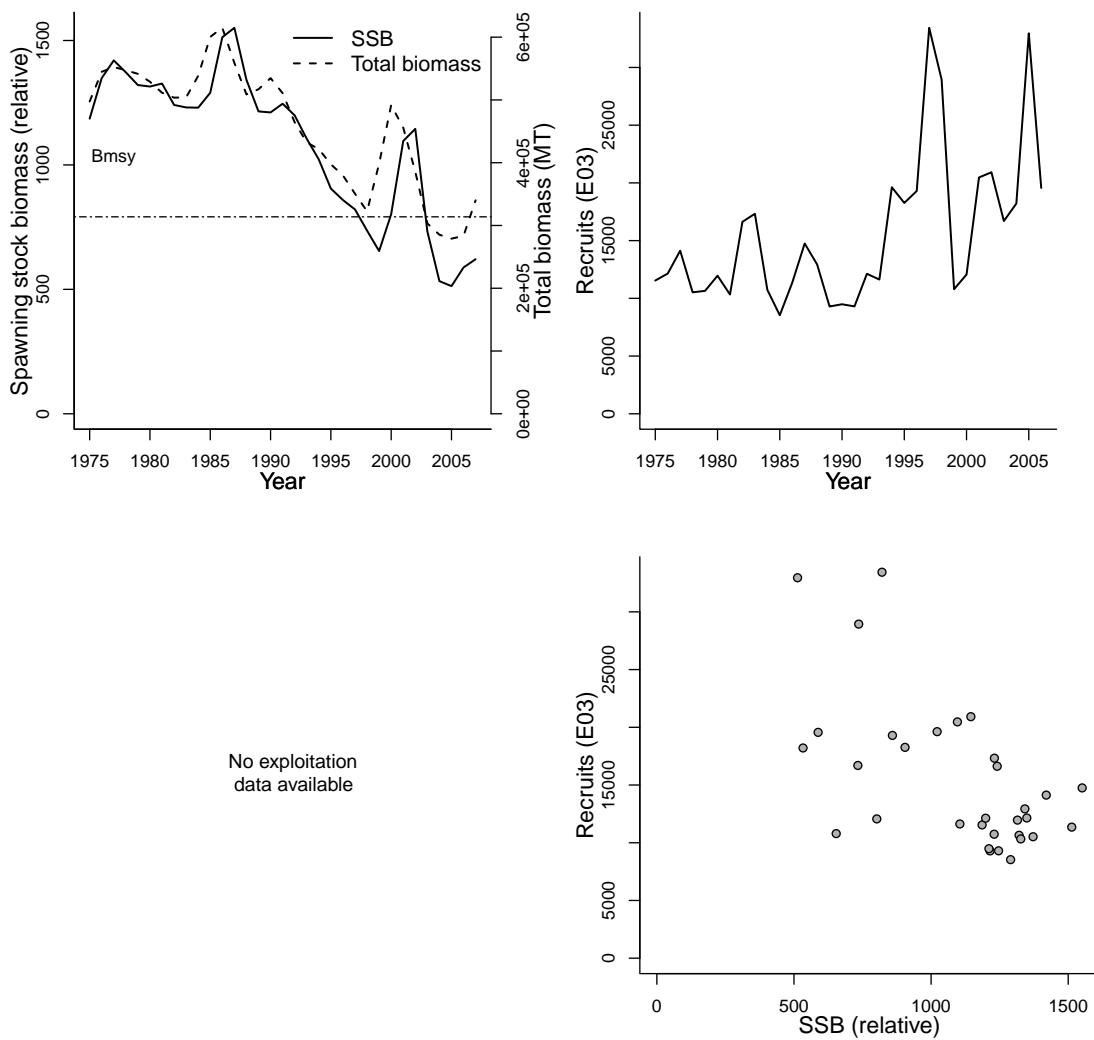
General assessment details.

Detail	Value
Management body	IATTC
Assessment group	Inter-American Tropical Tuna Commission
Assessment authors	Aires-da-Silva, Alexandre
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1975-2007
Document	JENSEN_BETEPAC_2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-30
Date last loaded	2010-07-16
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
-99 - Pacific High Seas			na	na	
Parameter	Value	Units	Reference points		
M-1/T	AVAILABLE	1/T	Parameter	Value	Units
REC-AGE			Bmsy-MT (TB)	313767.00	MT
SSB-AGE-yr			MSY-MT (TB)	92758.00	MT
SSB-SEX-sex			SSBmsy-relative	688	relative
TB-AGE-yr			$TB_{2007}/B_{msy}$	1.084	
F-AGE-yr			$SSB_{2007}/SSB_{msy}$	0.903	
M					
A50-yr					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1975	1975	1975	
Maximum year	2007	2006	2007	
Time series minimum	513	8536	278962	
Time series maximum	1551	33434	614898	
Units	relative	E03	MT	



# Assessment of Northeast Pacific yellowfin tuna (*Thunnus albacares*)

Assessment ID:IATTC-YFINEPAC-1975-2007-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/56>

Area ID: multinational-IATTC-NEPAC

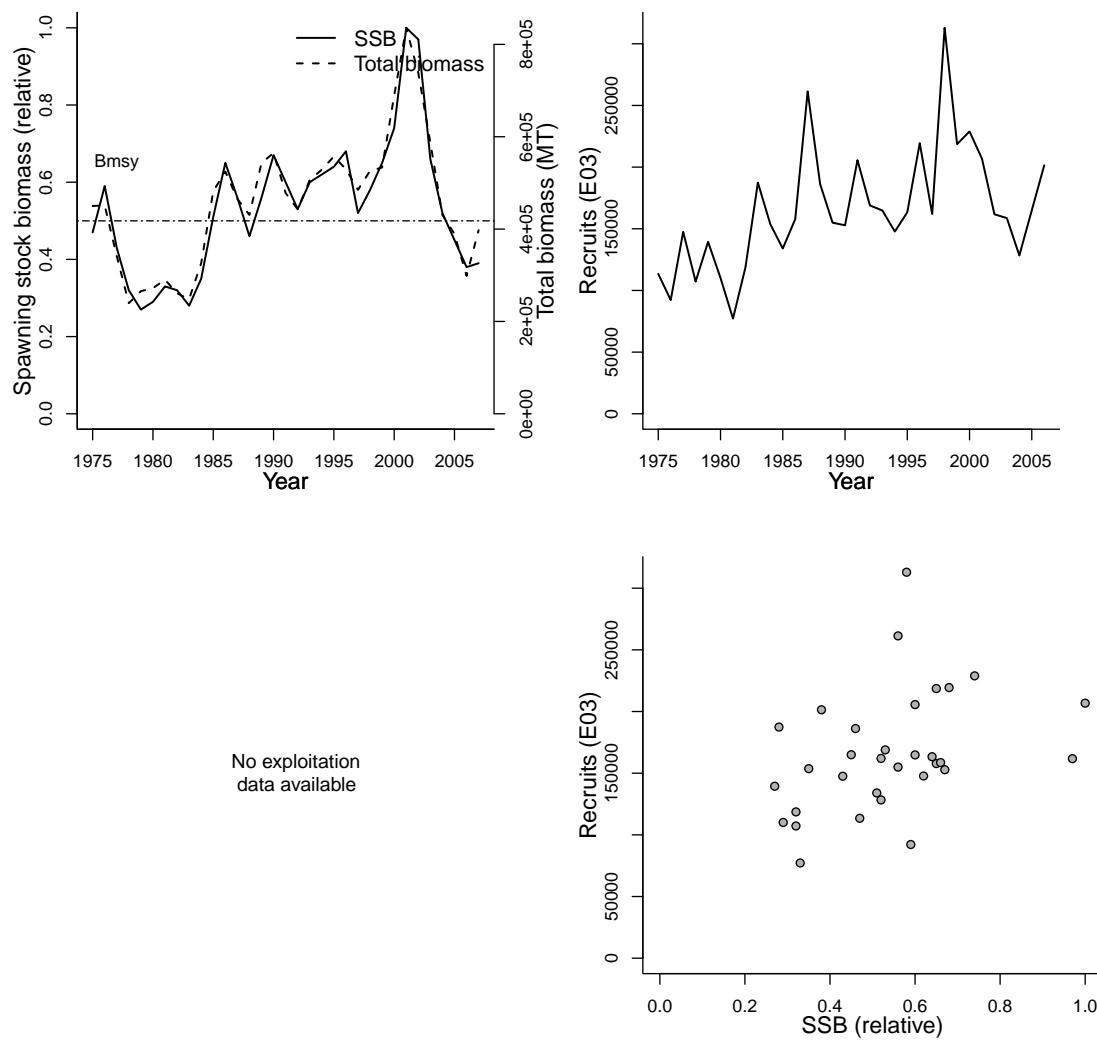
## General assessment details.

Detail	Value
Management body	IATTC
Assessment group	Inter-American Tropical Tuna Commission
Assessment authors	Maunder, Mark
Assessment method	IATTC Statistical Catch at Age and Length Assessment
Publication year	2007
Timeseries span	1975-2007
Document	SAR8-YFT-ENG.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-04-21
Date last loaded	2010-07-16
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
-99 - Pacific High Seas			na	na	
Parameter	Value	Units			
REC-AGE-yr	0.50	yr			
TB-AGE-yr	1.50	yr	Reference points		
M-1/yr	0.25	1/yr	Parameter	Value	Units
SSB-AGE-yr			Bmsy-MT (TB)	417813.00	MT
SSB-SEX-sex			MSY-MT (TB)	289140.00	MT
F-AGE-yr			$TB_{2007}/B_{m\text{sy}}$	0.951	
M					
A50-yr					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1975	1975		1975
Maximum year	2007	2006		2007
Time series minimum	0.27	77206		239493
Time series maximum	1	312948		835924
Units	relative	E03		MT



# Assessment of Northern Atlantic albacore tuna (*Thunnus alalunga*)

Assessment ID: ICCAT-ALBANATL-1929-2005-WORM

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/24>

Area ID: multinational-ICCAT-NATL

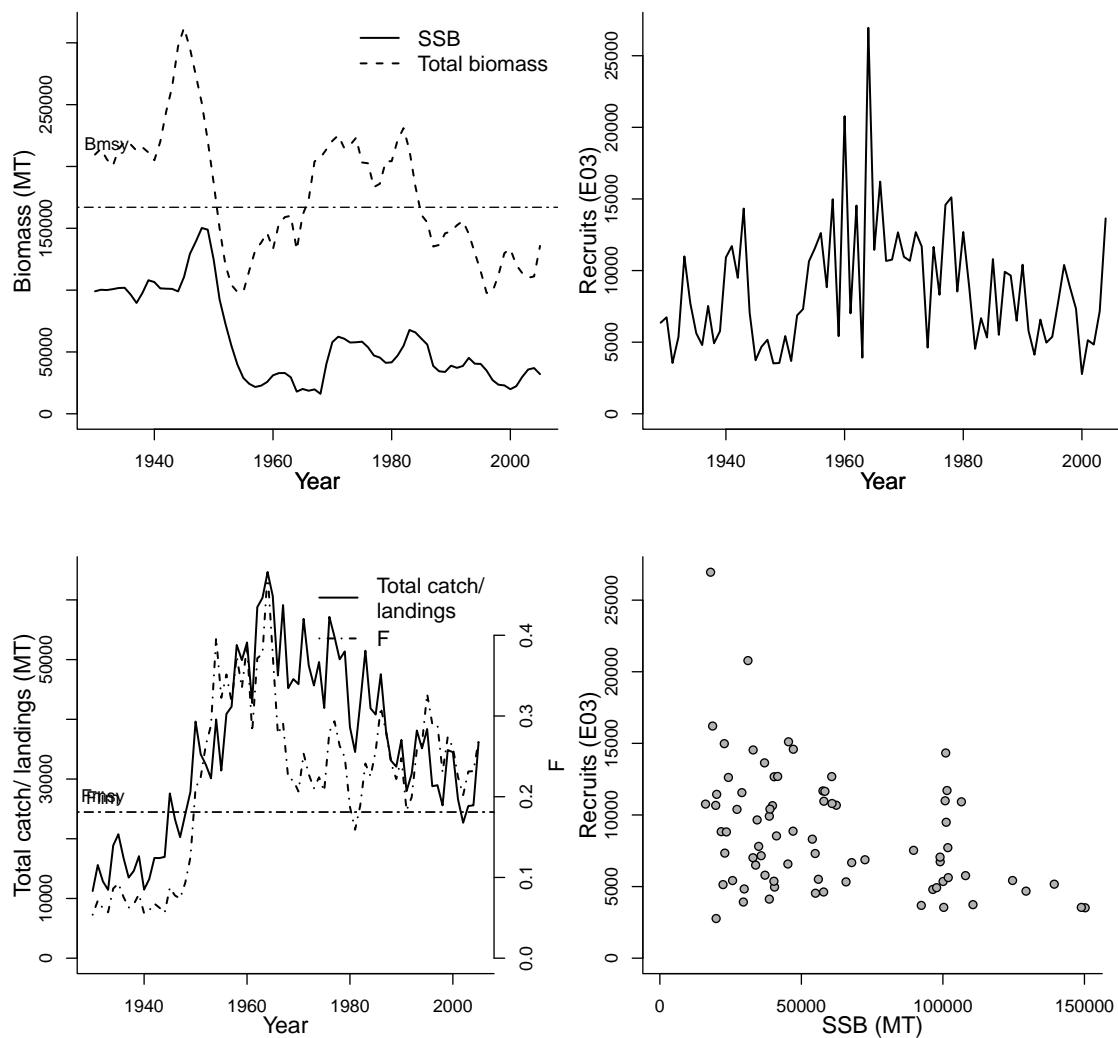
## General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1929-2005
Document	ref2007-ALB-STOCK-ASSESS-REP.pdf (pdf not in database)
Recorder	WORM
Date entered	2008-11-14
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2009-06-04

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

primary LME			secondary LME		tertiary LME
-98 - Atlantic High Seas			na	na	
Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	5	yr	Flim-1/T (F)	0.181	1/T
SSB-SEX-sex	0	sex	Fmsy-1/T (F)	0.181	1/T
A50-yr	5	yr	Fcurrent-1/T (F)	0.272	1/T
L50-cm	90	cm	NATMORT-1/yr (M)	0.3	1/yr
NATMORT-1/yr	0.3	1/yr	MSY-MT (TB)	30230	MT
REC-AGE			Bmsy-MT (TB)	167000	MT
TB-AGE-yr			Brebuild-MT (TB)	167000	MT
F-AGE-yr			$F_{2005}/F_{lim}$	1.490	
M			$TB_{2005}/B_{msy}$	0.813	
			$F_{2005}/F_{msy}$	1.490	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1930	1929	1930	1930	1930
Maximum year	2005	2004	2005	2005	2005
Time series minimum	16138	2770	0.05382	97677	11250
Time series maximum	150260	26950	0.4781	312140	64633.908
Units	MT	E03	1/T	MT	MT



# Assessment of Eastern Atlantic atlantic bluefin tuna (*Thunnus thynnus*)

Assessment ID: ICCAT-ATBTUNAEATL-1969-2007-WORM

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/128>

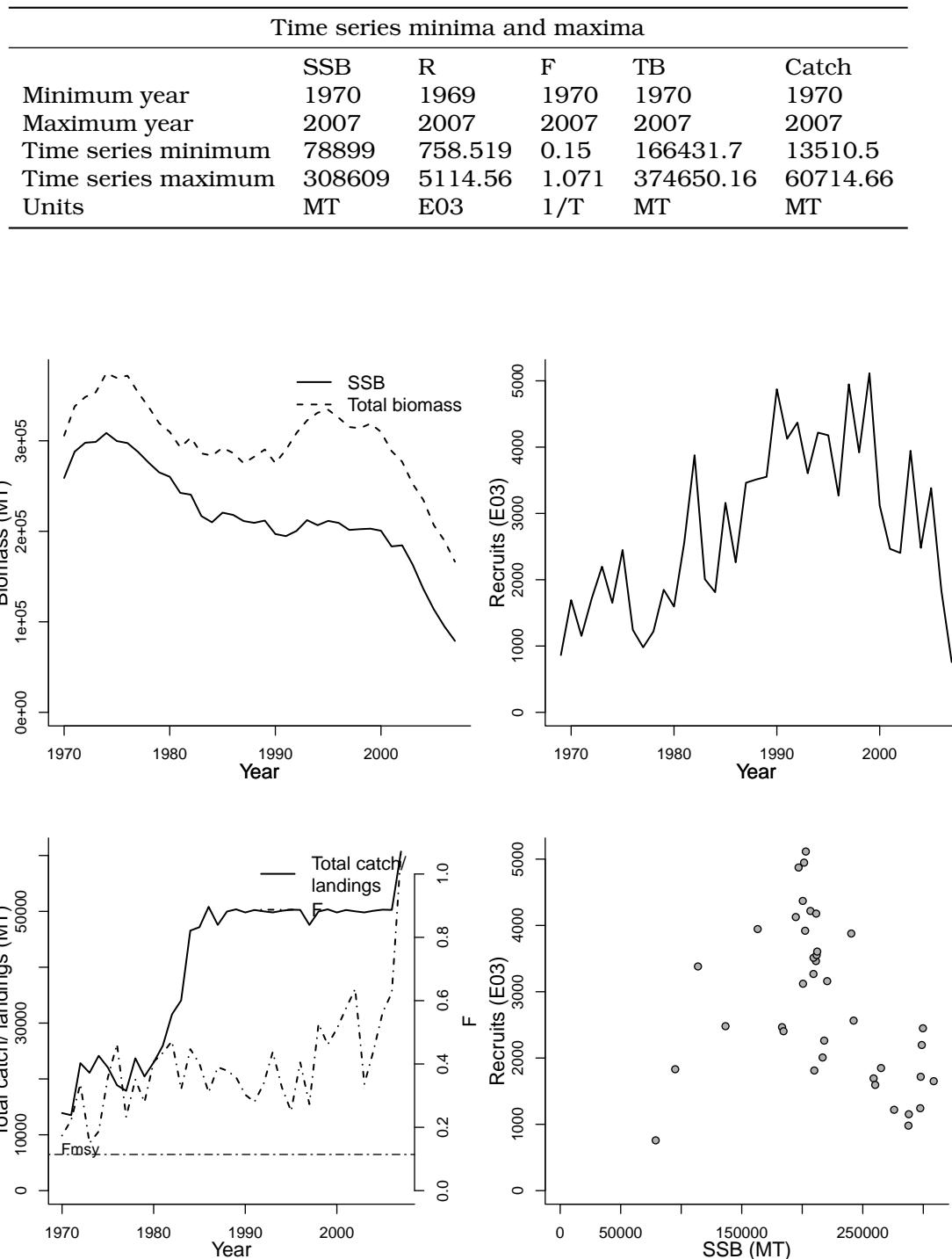
Area ID: multinational-ICCAT-EATL

## General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2008
Timeseries span	1969-2007
Document	ref2008-BFT-STOCK-ASSESS-REP.pdf (pdf in database)
Recorder	WORM
Date entered	2009-01-22
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-04

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

primary LME		secondary LME		tertiary LME	
-98 - Atlantic High Seas		26 - Mediterranean Sea		na	
Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	4	yr	Fmsy-1/T (F)	0.1141685	1/T
SSB-SEX-sex	0	sex	Fcurrent-1/T (F)	1.071	1/T
REC-AGE-yr	1	yr	MSY-MT (TB)	49313.8	MT
F-AGE-yr-yr	1-10	yr-yr	Bmsy-MT (TB)	495914.5	MT
A50-yr	4	yr	TB <sub>2007</sub> /B <sub>msy</sub>	0.336	
L50-cm	115	cm	F <sub>2007</sub> /F <sub>msy</sub>	9.381	
M-1/yr	AVAILABLE	1/yr			
TB-AGE-yr					
M					



# Assessment of Western Atlantic atlantic bluefin tuna (*Thunnus thynnus*)

Assessment ID: ICCAT-ATBTUNAWATL-1969-2007-WORM

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/23>

Area ID: multinational-ICCAT-WATL

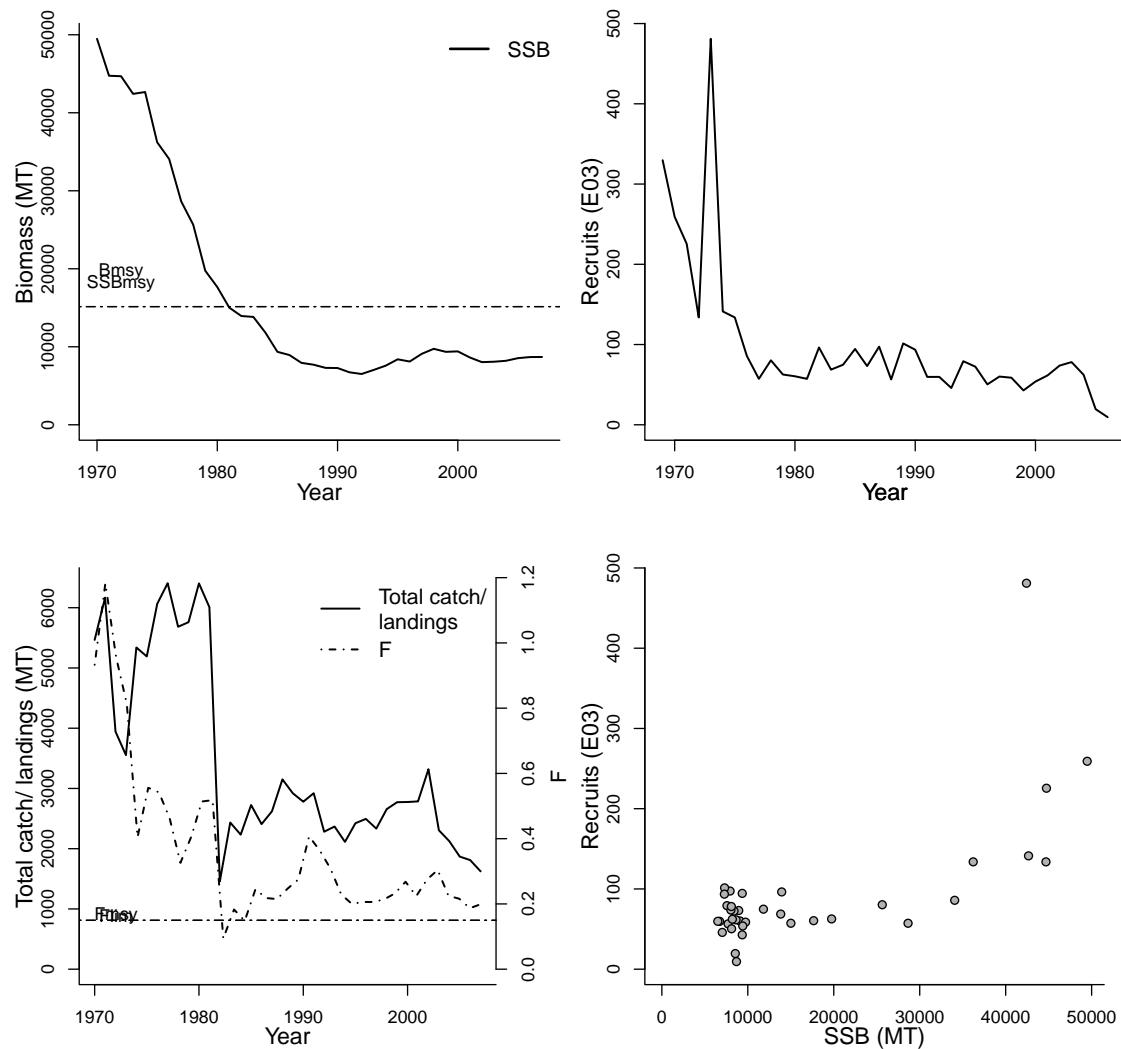
## General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2008
Timeseries span	1969-2007
Document	ref2008-BFT-STOCK-ASSESS-REP.pdf (pdf in database)
Recorder	WORM
Date entered	2008-11-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-04

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

primary LME			secondary LME		tertiary LME	
-98 - Atlantic High Seas			na	na		
Parameter	Value	Units	Reference points			Units
			Parameter	Value	Value	
SSB-AGE-yr	8	yr	Flim-1/T (F)	0.15	1/T	
SSB-SEX-sex	0	sex	Fmax-1/yr (F)	0.19	1/yr	
REC-AGE-yr	1	yr	Fmsy-1/T (F)	0.15	1/T	
F-AGE-yr-yr	1-10	yr-yr	Fcurrent-1/T (F)	0.19	1/T	
A50-yr	8	yr	NATMORT-1/yr (M)	0.14	1/yr	
L50-cm	190	cm	SSBmsy-MT (SSB)	15148	MT	
M-1/yr	0.14	1/yr	MSY-MT (TB)	2851.9	MT	
NATMORT-1/yr	0.14	1/yr	Bmsy-MT (TB)	15148	MT	
TB-AGE-yr			Brebuild-MT (TB)	15148	MT	
M			F0.1-1/yr (F)	0.08	1/yr	
			$F_{2006}/F_{lim}$	1.327		
			$F_{2006}/F_{msy}$	1.327		
			$SSB_{2007}/SSB_{msy}$	0.574		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1969	1970	1970	1970
Maximum year	2007	2006	2006	2007	2007
Time series minimum	6511	9.486	0.094	1458	
Time series maximum	49482	481.004	1.183	6407	
Units	MT	E03	1/T	MT	



# Assessment of Atlantic bigeye tuna (*Thunnus obesus*)

Assessment ID: ICCAT-BIGEYEATL-1950-2005-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/245>

Area ID: USA-NMFS-ATL

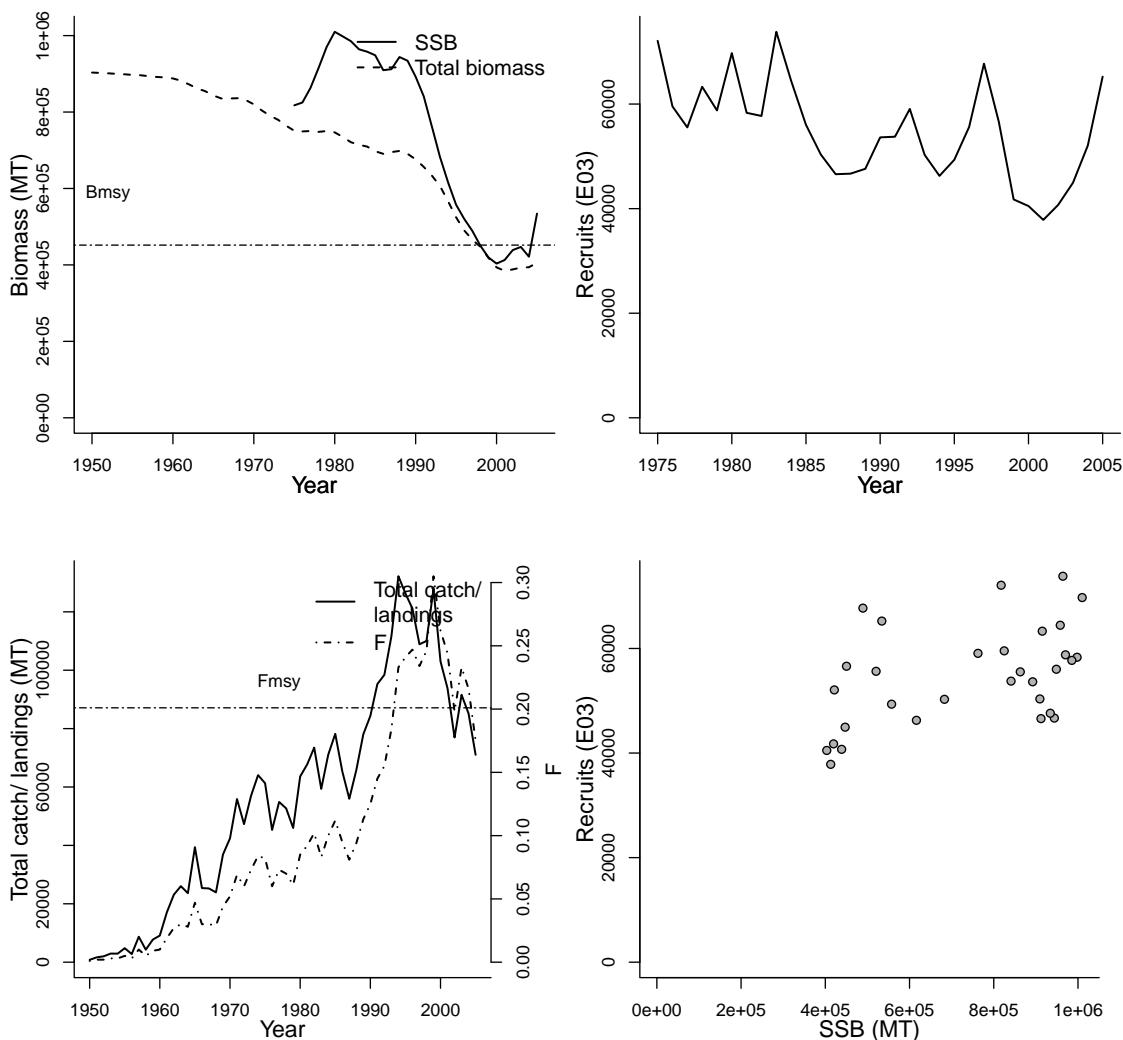
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Surplus production model
Publication year	2008
Timeseries span	1950-2005
Document	JENSEN-BIGEYEATL-2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2010-07-16
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		
-98 - Atlantic High Seas			na			na		
Parameter	Value	Units	Reference points					
Parameter	Value	Units	Parameter	Value	Units			
REC-AGE-yr	0	yr	Fmsy-1/T (F)	0.201	1/T			
M-1/yr	0.4	1/yr	MSY-MT (TB)	90820	MT			
SSB-AGE-yr			Bmsy-MT (TB)	451800	MT			
SSB-SEX-sex			$TB_{2005}/B_{msy}$	0.898				
TB-AGE-yr			$F_{2005}/F_{msy}$	0.871				
F-AGE-yr								
M								
A50-yr								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1975	1975	1950	1950
Maximum year	2005	2005	2005	2005
Time series minimum	403425	37844.186	0.001	384400
Time series maximum	1009957	73820.329	0.305	903300
Units	MT	E03	1/T	MT



# Assessment of Eastern Atlantic skipjack tuna (*Katsuwonus pelamis*)

Assessment ID: ICCAT-SKJEATL-1950-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/254>

Area ID: multinational-ICCAT-EATL

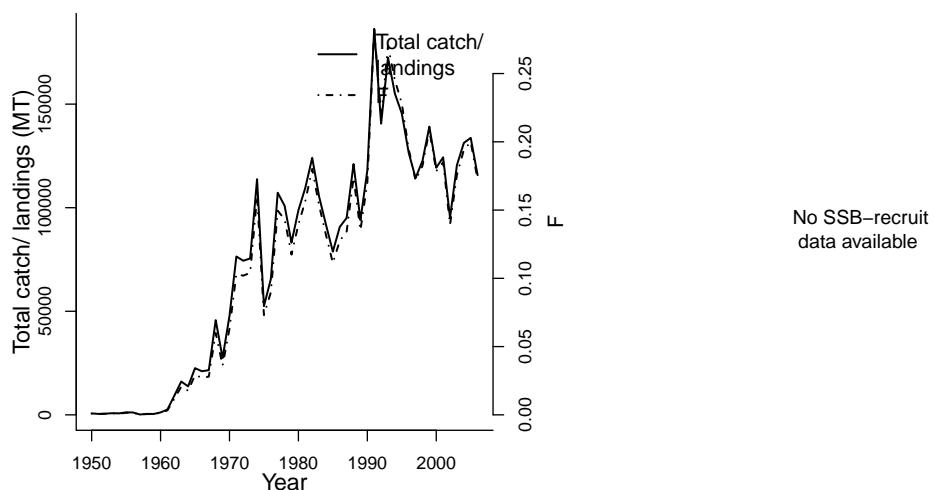
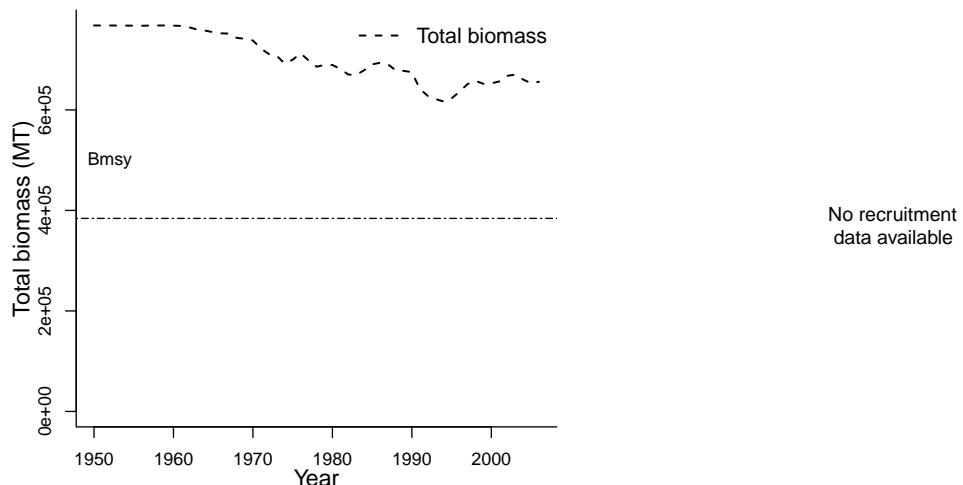
## General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Bayesian Surplus Production Model
Publication year	2008
Timeseries span	1950-2006
Document	JENSEN-YFINATL-2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-11
Date last loaded	2010-07-16
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
	-98 - Atlantic High Seas		na		na
Parameter	Value	Units	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			Fmsy-1/T (F)	0.636753571828511	1/T
SSB-SEX-sex			MSY-MT (TB)	225796	MT
TB-AGE-yr			Bmsy-MT (TB)	384159	MT
F-AGE-yr			B0-MT	768318	MT
M			$TB_{2006}/B_{m sy}$	1.708	
A50-yr			$F_{2006}/F_{m sy}$	0.270	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1950	1950	1950
Maximum year			2006	2006	2006
Time series minimum			0.000223689689387923	616733.53	176
Time series maximum			0.282733661203231	768026.51	186329.21
Units			1/T	MT	MT



# Assessment of Western Atlantic skipjack tuna (*Katsuwonus pelamis*)

Assessment ID: ICCAT-SKJWATL-1952-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/253>

Area ID: multinational-ICCAT-WATL

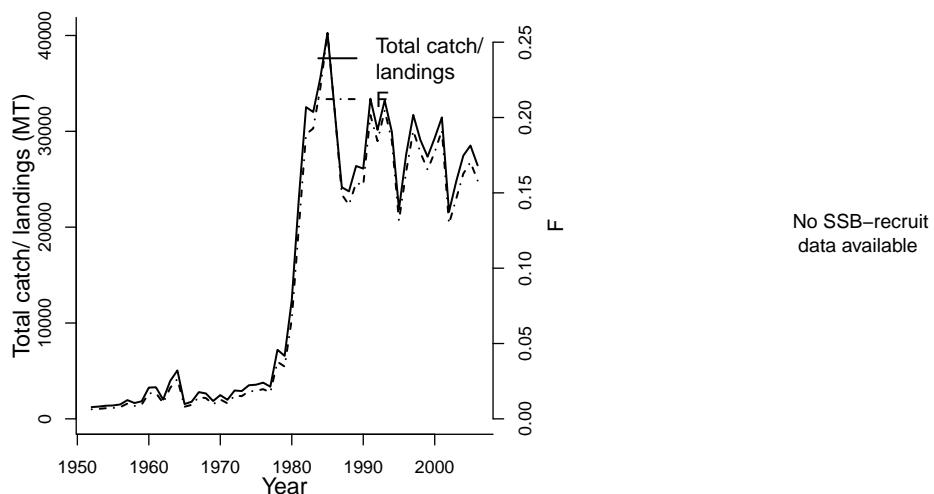
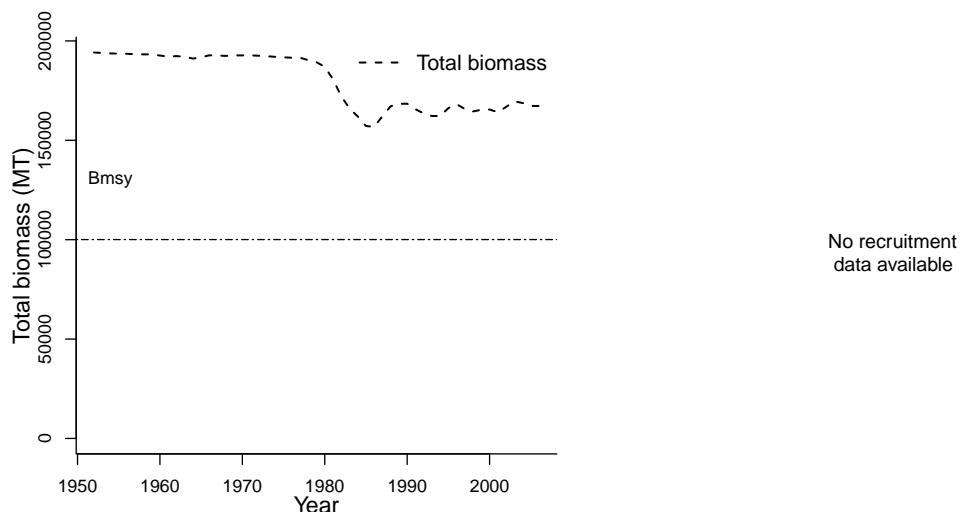
## General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Bayesian Surplus Production Model
Publication year	2008
Timeseries span	1952-2006
Document	JENSEN-YFINATL-2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-11
Date last loaded	2010-07-16
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
	-98 - Atlantic High Seas		na		na
Parameter	Value	Units	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			Fmsy-1/T (F)	0.489367075307683	1/T
SSB-SEX-sex			MSY-MT (TB)	57815	MT
TB-AGE-yr			Bmsy-MT (TB)	100052	MT
F-AGE-yr			B0-MT	200104	MT
M			$TB_{2006}/B_{m sy}$	1.671	
A50-yr			$F_{2006}/F_{m sy}$	0.323	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1952	1952	1952
Maximum year			2006	2006	2006
Time series minimum	0.0063272611699945			156798.05	1229
Time series maximum	0.256188321434316			194191.85	40272.31
Units	1/T			MT	MT



# Assessment of Mediterranean Sea swordfish (*Xiphias gladius*)

Assessment ID: ICCAT-SWORDMED-1968-2006-JENSEN  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/58>

Area ID: multinational-ICCAT-MED

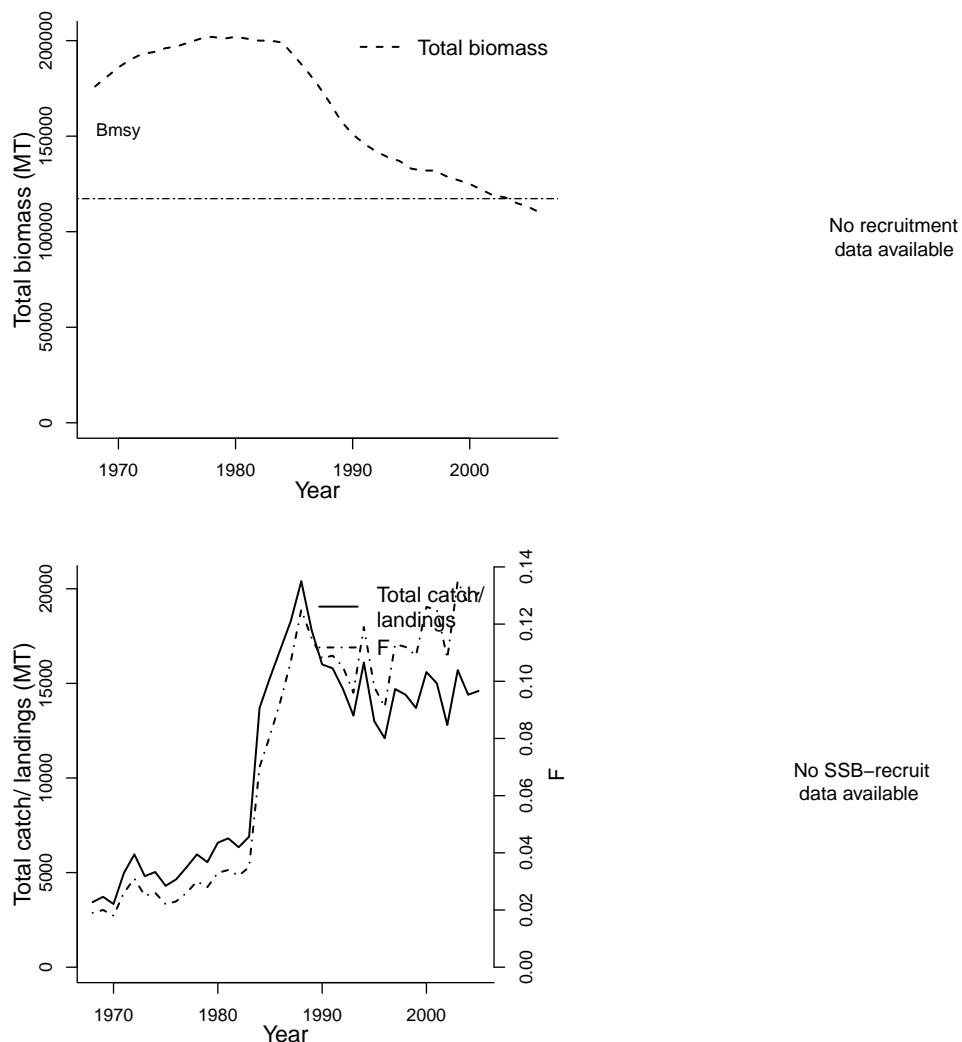
## General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Surplus production model
Publication year	2007
Timeseries span	1968-2006
Document	ICCAT-Mediterranean-Xiphiasgladius-2007.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-17
Date last loaded	2010-07-18
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
26 - Mediterranean Sea			na	na	
Parameter	Value	Units	Reference points		
L50-cm	142	cm	Bmsy-MT (TB)	117300	MT
M-1/yr	0.2	1/yr	Umsy-ratio (U)	0.1035	ratio
REC-AGE			MSY-MT (TB)	12140	MT
SSB-AGE-yr			$TB_{2006}/B_{msy}$	0.938	
SSB-SEX-sex					
TB-AGE-yr					
F-AGE-yr					
M					
A50-yr					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1968	1968
Maximum year			2005	2006
Time series minimum	0.018		110000	3340
Time series maximum	0.135		202000	20400
Units		ratio	MT	MT



# Assessment of Northern Atlantic swordfish

## (*Xiphias gladius*)

Assessment ID: ICCAT-SWORDNATL-1978-2007-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/249>

Area ID: multinational-ICCAT-NATL

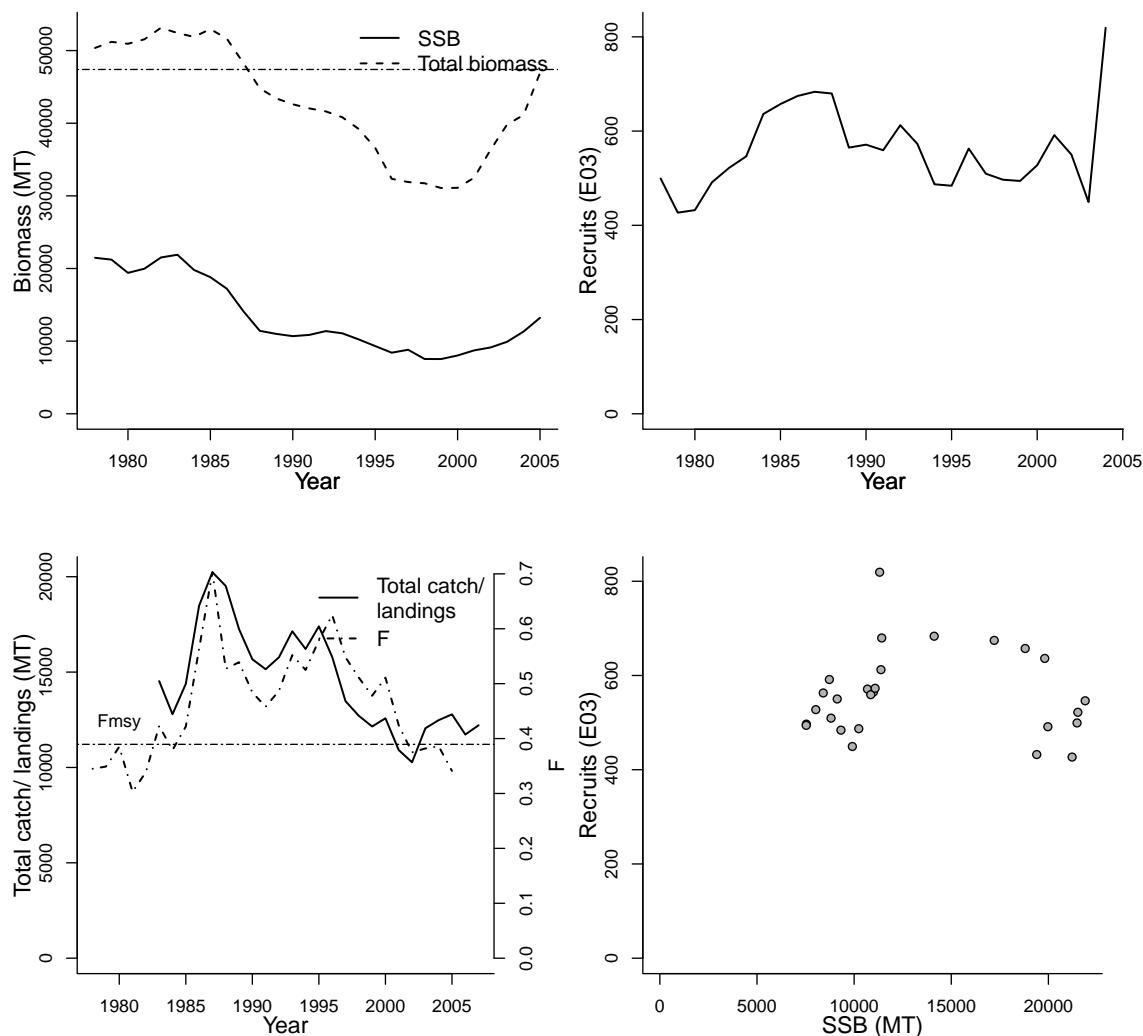
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Surplus production model
Publication year	2007
Timeseries span	1978-2007
Document	JENSEN-SWORDSATL-2007.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2010-07-14

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

primary LME			secondary LME			tertiary LME		
-98 - Atlantic High Seas			na			na		
Parameter	Value	Units	Reference points					
REC-AGE-yr	1	yr	Parameter	Value	Units			
SSB-AGE-yr			Fmsy-1/T (F)	0.3895	1/T			
SSB-SEX-sex			MSY-MT (TB)	14879	MT			
TB-AGE-yr			Bmsy-MT (TB)	47399	MT			
F-AGE-yr			$TB_{2005}/B_{msy}$	0.990				
M			$F_{2005}/F_{msy}$	0.875				
A50-yr								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1978	1978	1978
Maximum year	2005	2004	2005	2005
Time series minimum	7533	426.861	0.303	31077.76
Time series maximum	21893	819.176	0.703	53133.48
Units	MT	E03	1/T	MT



# Assessment of South Atlantic swordfish (*Xiphias gladius*)

Assessment ID: ICCAT-SWORDSATL-1970-2005-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/247>

Area ID: multinational-ICCAT-SATL

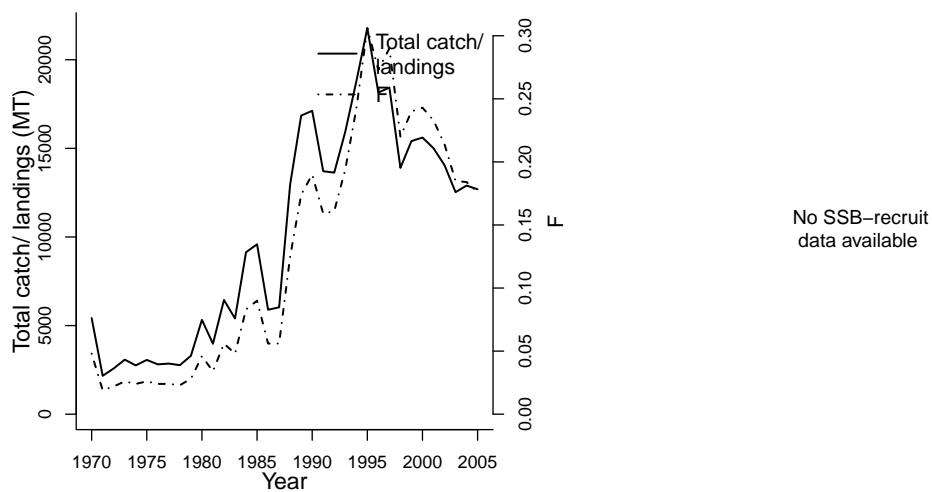
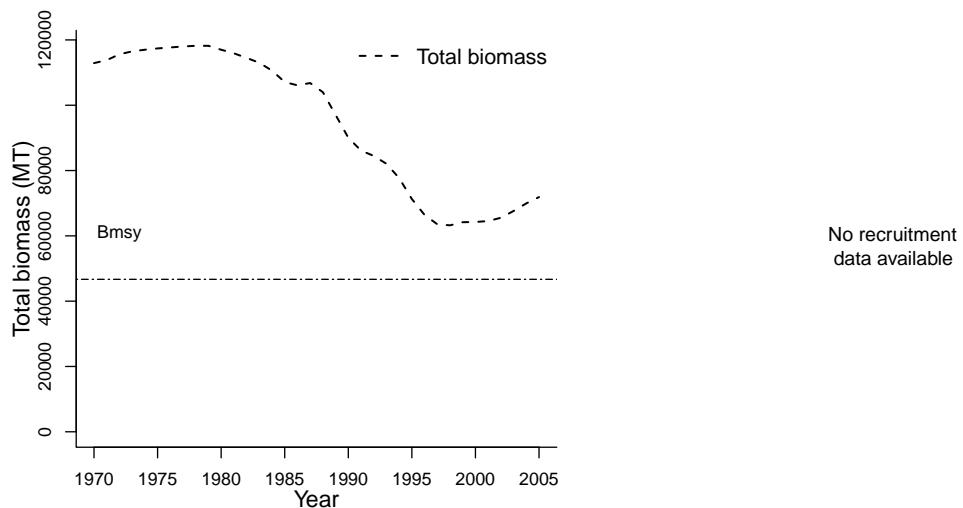
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Surplus production model
Publication year	2007
Timeseries span	1970-2005
Document	JENSEN-SWORDSATL-2007.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2010-07-14

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

primary LME			secondary LME			tertiary LME		
-98 - Atlantic High Seas			na			na		
Parameter	Value	Units	Reference points					
REC-AGE			Parameter	Value	Units			
SSB-AGE-yr			Fmsy-1/T (F)	0.356	1/T			
SSB-SEX-sex			MSY-MT (TB)	16640	MT			
TB-AGE-yr			Bmsy-MT (TB)	46690	MT			
F-AGE-yr			$TB_{2005}/B_{m sy}$	1.540				
M			$F_{2005}/F_{m sy}$	0.494				
A50-yr								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1970	1970
Maximum year			2005	2005
Time series minimum			0.019	63220
Time series maximum			0.306	118200
Units			1/T	MT
				MT



# Assessment of Atlantic yellowfin tuna (*Thunnus albacares*)

Assessment ID: ICCAT-YFINATL-1970-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/252>

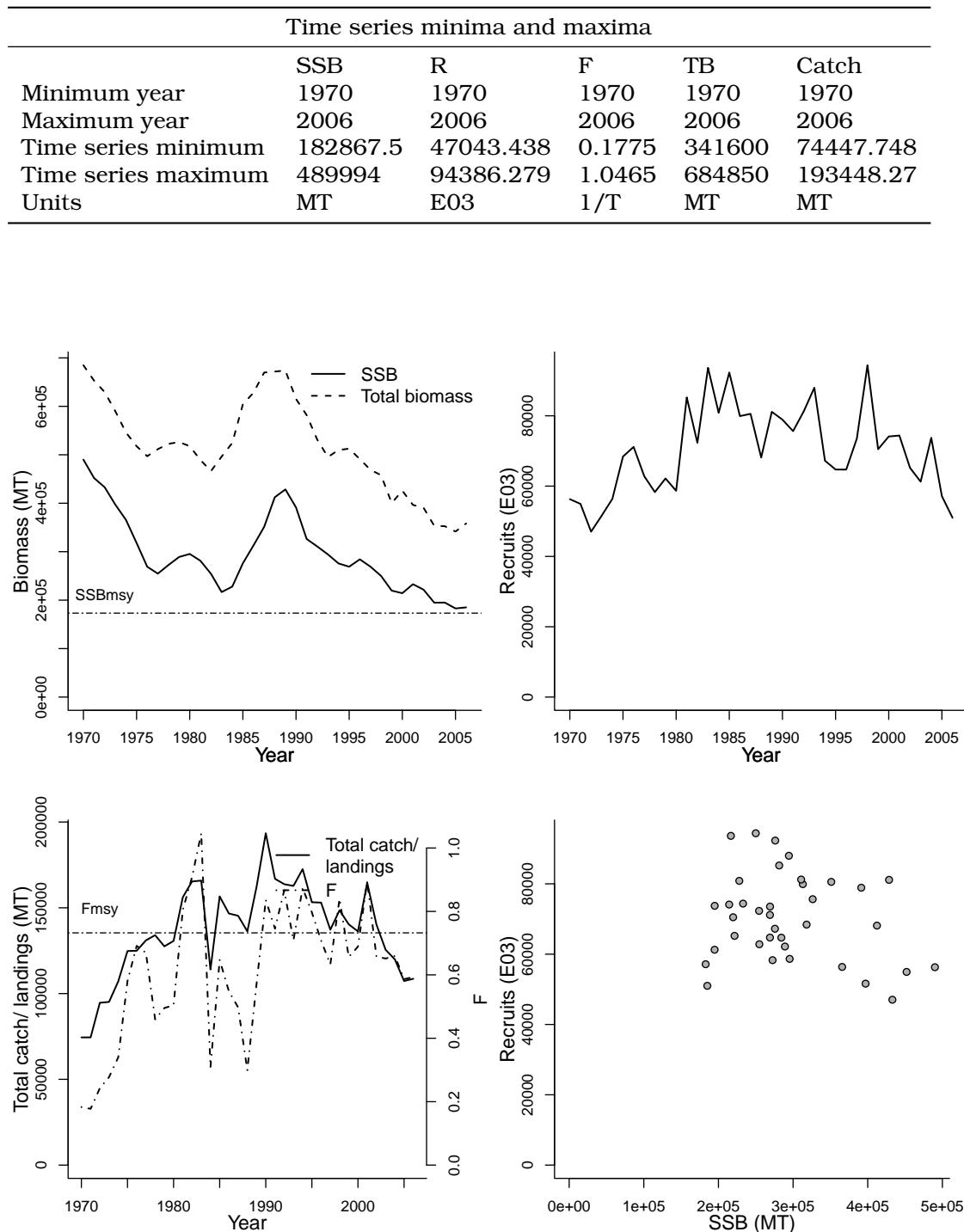
Area ID: USA-NMFS-ATL

## General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2008
Timeseries span	1970-2006
Document	JENSEN-YFINATL-2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2010-07-16
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	
-98 - Atlantic High Seas			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	0	yr	Parameter	Value	Units
SSB-AGE-yr			Fmsy-1/T (F)	0.73235	1/T
SSB-SEX-sex			SSBmssy-MT (SSB)	173191.00788815	MT
TB-AGE-yr			MSY-MT (TB)	129800	MT
F-AGE-yr			$F_{2006}/F_{msy}$	0.810	
M			$SSB_{2006}/SSB_{msy}$	1.069	
A50-yr					
L50-cm					



# Assessment of Northwest Pacific Ocean shortfin mako (*Isurus oxyrinchus*)

Assessment ID:IMARM-SFMAKONWPAC-1990-2003-FAUCONNET  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/400>

Area ID: multinational-UNKNOWN-NWPAC

## General assessment details.

Detail	Value
Management body	UNKNOWN
Assessment group	Institute of Marine Affairs and Resource Management - National Taiwan Ocean University, 2 Pei-Ning Road, Keelung 20224, Taiwan
Assessment authors	Chang, Jui-Han
Assessment method	Virtual Population Analysis
Publication year	2009
Timeseries span	1990-2003
Document	Chang-Liu-2009-Shortfin-mako-NWPAC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-06-11
Date last loaded	2011-03-03
QA/QC complete	YES
Date approved	2011-03-03

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

primary LME	secondary LME	tertiary LME
-99 - Pacific High Seas	-98 - Atlantic High Seas	-97 - Indian High Seas
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	17-21	yr
F-AGE-yr-yr	0-22	yr-yr
F-AGE-yr-yr	0-18	yr-yr
REC-AGE		
SSB-SEX-sex		
TB-AGE-yr		
M		
A50-yr		
L50-cm		

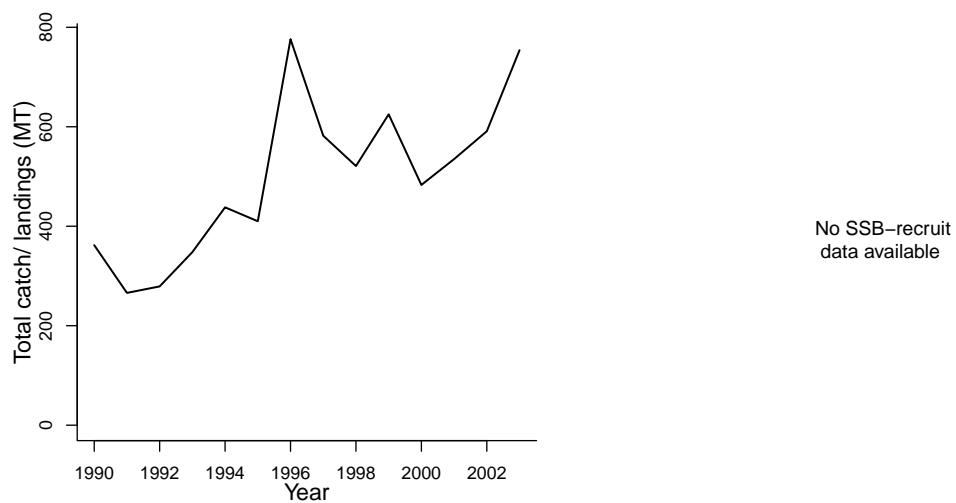
  

Reference points		
Parameter	Value	Units
F30%-1/yr	0.052	1/yr
F35%-1/yr	0.045	1/yr
F40%-1/yr	0.04	1/yr
F0.1-1/yr (F)	0.063	1/yr

Time series minima and maxima				
	SSB	R	F	TB
Minimum year				1990
Maximum year				2003
Time series minimum				266
Time series maximum				776
Units				MT

No biomass data available

No recruitment data available



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

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

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

Area ID: Peru-IMARPE-NC

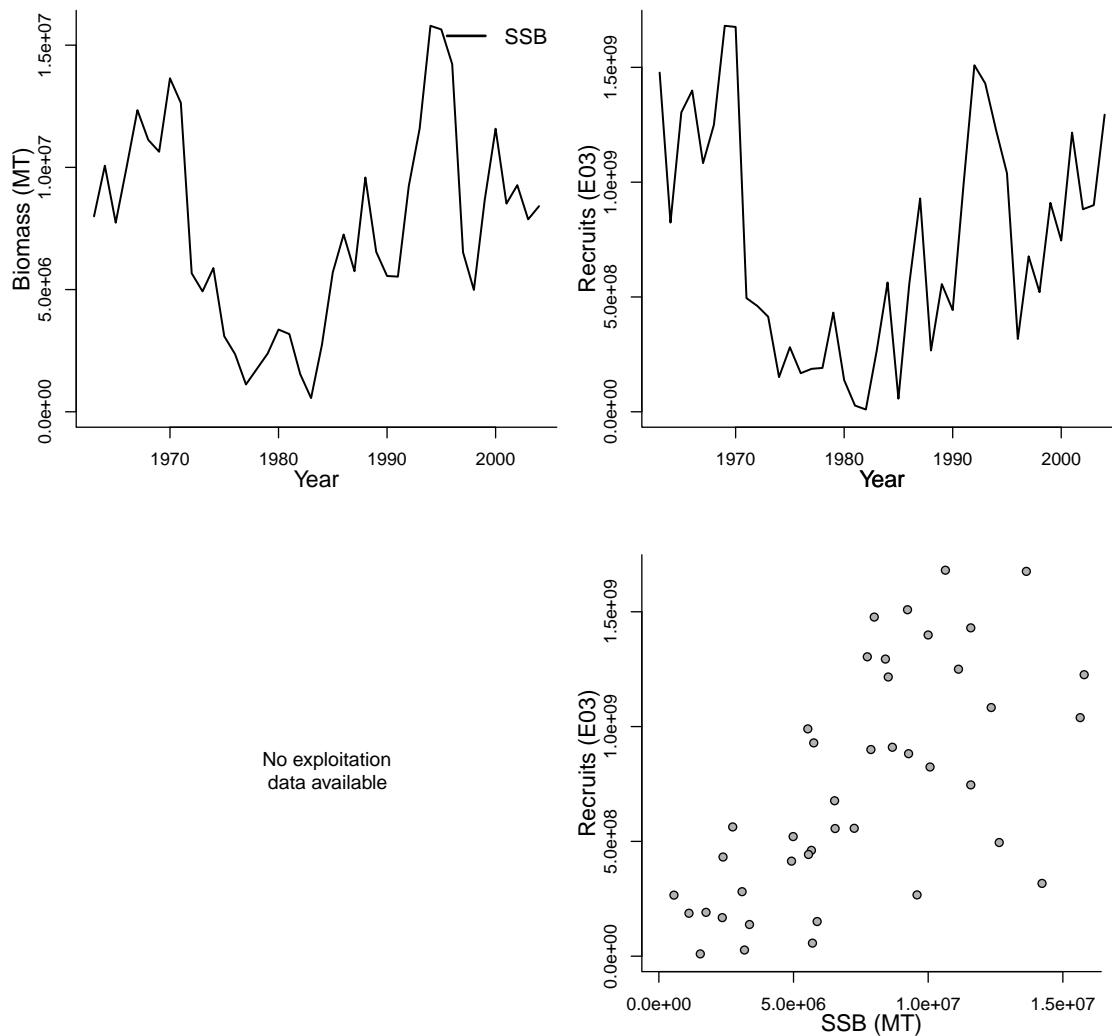
## General assessment details.

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			Reference points		
F-AGE-yr			Parameter	Value	Units
M					
A50-yr					
L50-cm					

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			



# Assessment of 0

Assessment ID:INIDEP-ARGANCHONARG-1989-2007-Parma

Issue URL:

Area ID:

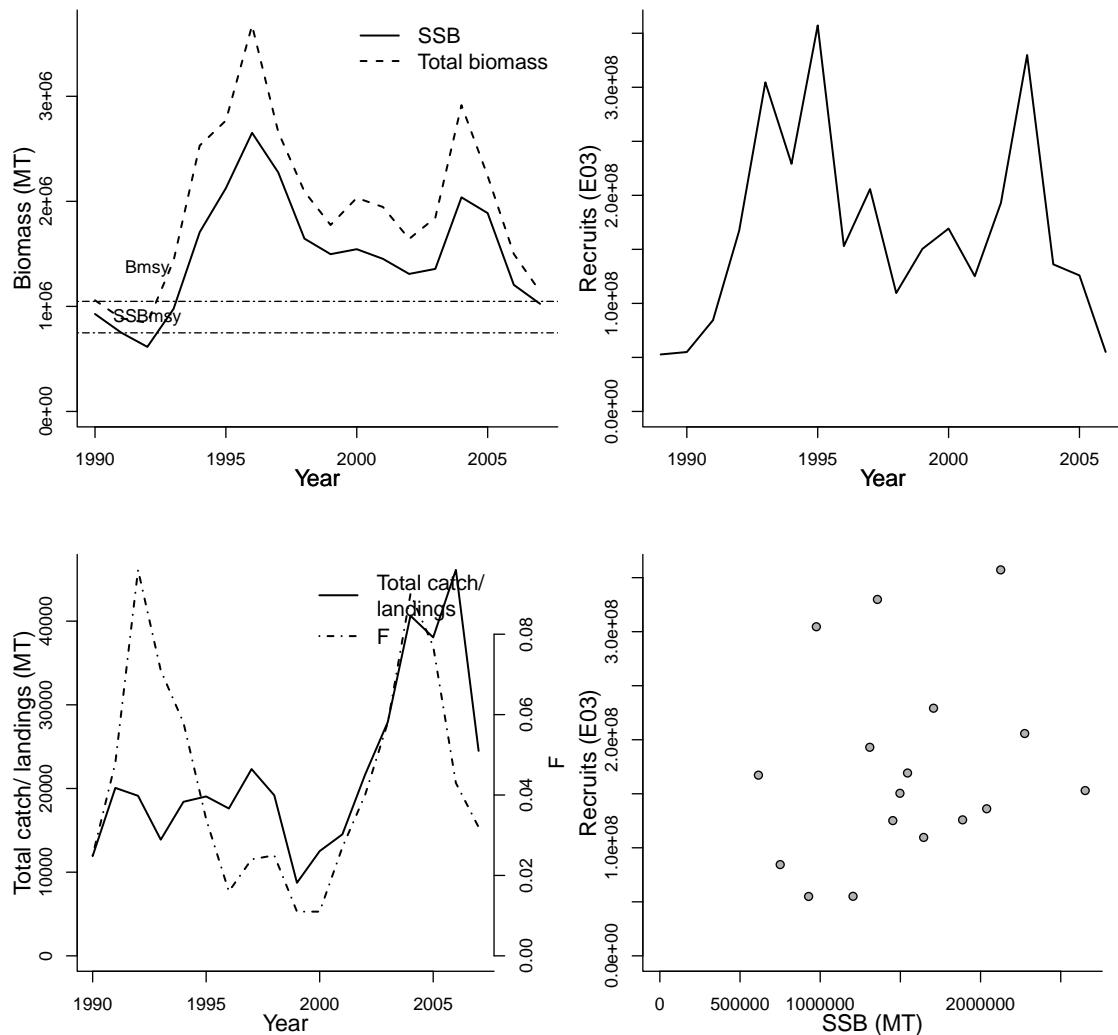
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Hansen, Jorge
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	1989-2007
Document	Hansen-ANCHOVY-N-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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
14 - Patagonian Shelf			na	na	
Parameter	Value	Units	Parameter	Value	Reference points
SSB-AGE-yr	1.2	yr	Fmsy-1/yr (F)	0.1898	1/yr
SSB-SEX-sex	0	sex	Fpa-1/yr (F)	0.18	1/yr
REC-AGE-yr	1	yr	Fcurrent-1/T (F)	0.04	1/T
F-AGE-yr-yr	1-6	yr-yr	NATMORT-1/yr (M)	1.02	1/yr
TB-AGE-yr	1+	yr	F40%-1/T	0.4722	1/T
A50-yr	1	yr	SSBmsy-MT (SSB)	748152	MT
L50-cm	10	cm	MSY-MT (TB)	424027.80	MT
M-1/yr	1.02	1/yr	BH-h-dimless	0.90	dimless
NATMORT-1/yr	1.02	1/yr	Bmsy-MT (TB)	1047948.41	MT
M			$TB_{2007}/B_{msy}$	1.089	
			$F_{2007}/F_{msy}$	0.169	
			$SSB_{2007}/SSB_{msy}$	1.370	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1990	1989	1990	1990	1990
Maximum year	2007	2006	2007	2007	2007
Time series minimum	614617.83	52734570	0.011	843773.89	8727.7
Time series maximum	2652436.6	357208920	0.096	3674349.79	46128.48
Units	MT	E03	1/yr	MT	MT



# Assessment of 0

Assessment ID:INIDEP-ARGANCHOSARG-1992-2007-Parma

Issue URL:

Area ID:

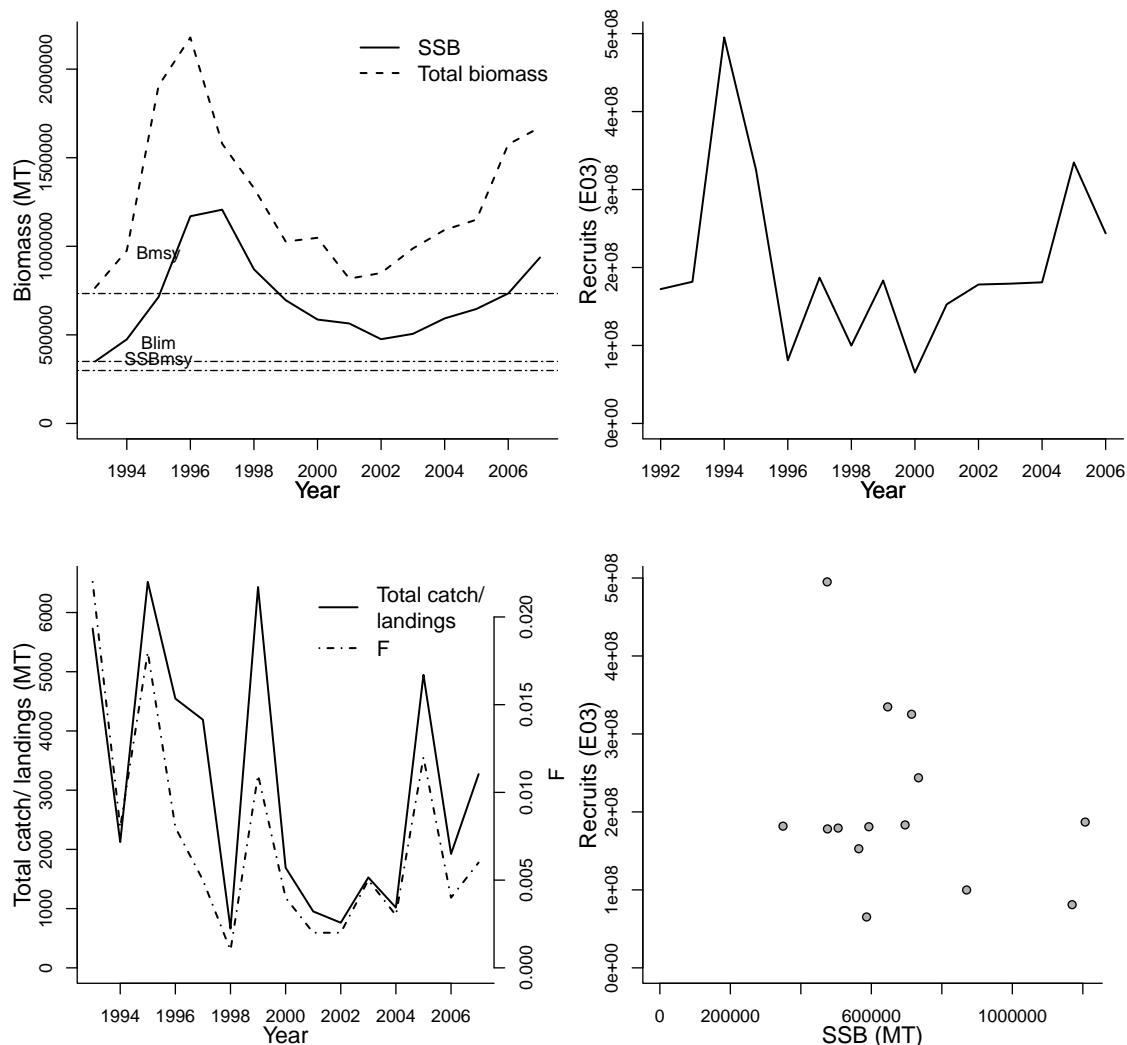
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Hansen, Jorge
Assessment method	Age-structured surplus production model
Publication year	2008
Timeseries span	1992-2007
Document	Hansen-ANCHOVY-S-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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
14 - Patagonian Shelf			na	na
Parameter	Value	Units	Reference points	
			Parameter	Value
SSB-AGE-yr	1.7	yr	Fmax-1/yr (F)	1.89330
SSB-SEX-sex	0	sex	Fmsy-1/yr (F)	0.1700
REC-AGE-yr	1	yr	Fpa-1/yr (F)	0.17
F-AGE-yr-yr	1-6	yr-yr	Fcurrent-1/T (F)	0.006
TB-AGE-yr	1+	yr	NATMORT-1/yr (M)	1.05
A50-yr	1	yr	F40%-1/T	0.2052
L50-cm	13.2	cm	SSBmsy-MT (SSB)	298839
M-1/yr	1.05	1/yr	MSY-MT (TB)	289825.38
NATMORT-1/yr	1.05	1/yr	BH-h-dimless	0.73
M			BLIM-MT (TB)	350000
			Bmsy-MT (TB)	733418.85
			Bpa-MT (TB)	1260000
			$TB_{2007}/B_{msy}$	2.279
			$F_{2007}/F_{msy}$	0.035
			$SSB_{2007}/SSB_{msy}$	3.135

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1993	1992	1993	1993	1993
Maximum year	2007	2006	2007	2007	2007
Time series minimum	349381.69	65263840	0.001	765224.53	662.86
Time series maximum	1206672.22	495050030	0.022	2178898.56	6517.37
Units	MT	E03	1/yr	MT	MT



# Assessment of 0

Assessment ID:INIDEP-ARGHAKENARG-1985-2007-Parma  
 Issue URL:

Area ID:

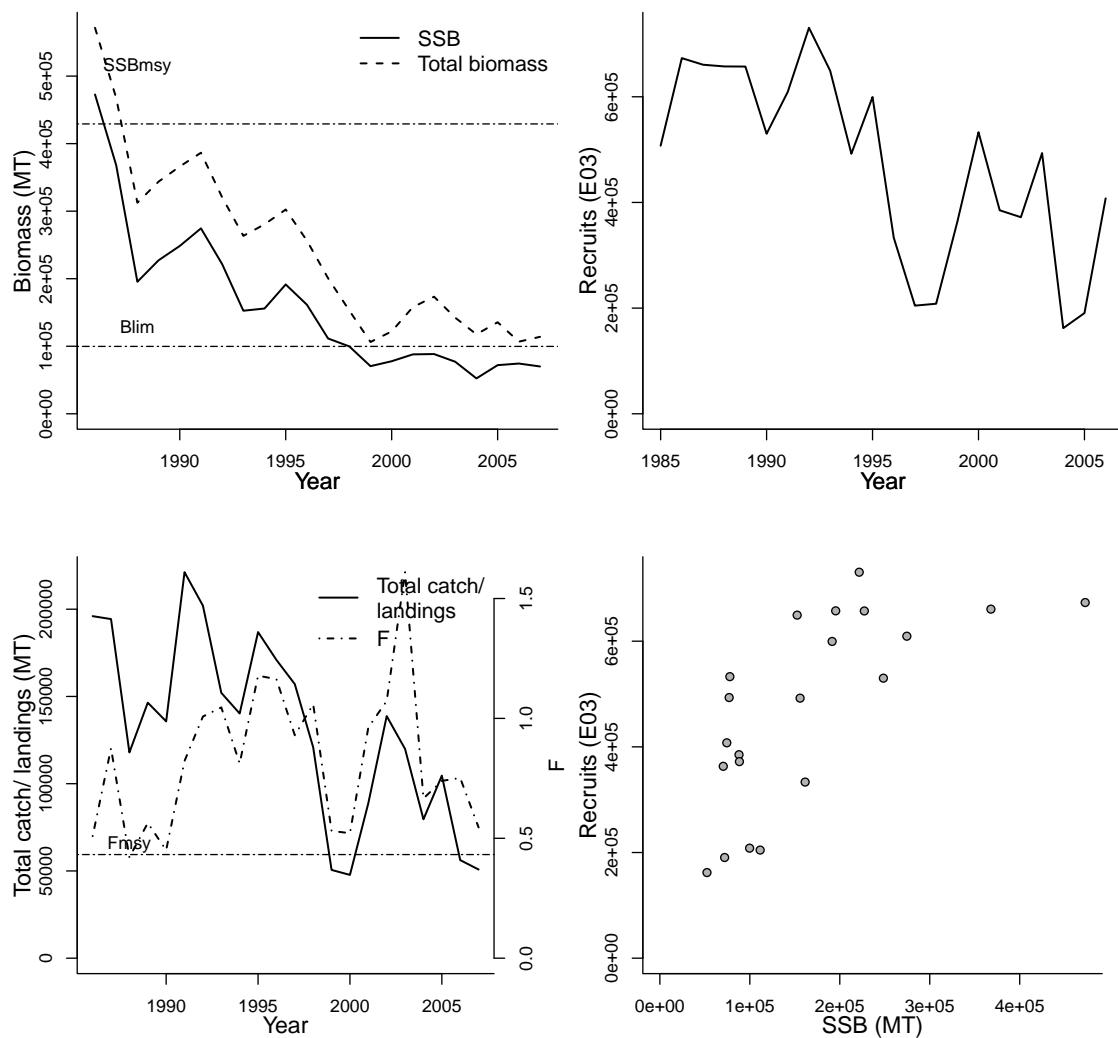
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Irusta, Gabriela
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1985-2007
Document	Irusta-hake-N-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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	
14 - Patagonian Shelf			na	na	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-SEX-sex	0	sex	Fmax-1/yr (F)	0.2978	1/yr
REC-AGE-yr	1	yr	Fmsy-1/yr (F)	0.4322	1/yr
F-AGE-yr-yr	3-6	yr-yr	NATMORT-1/yr (M)	0.3	1/yr
TB-AGE-yr	1+	yr	F40%-1/T	0.18791	1/T
A50-yr	2.62	yr	SSBmsy-MT (SSB)	429200	MT
M-1/yr	0.3	1/yr	MSY-MT (TB)	169416	MT
NATMORT-1/yr	0.3	1/yr	Umsy-ratio (U)	0.28133	ratio
SSB-AGE-yr			Blim-MT (TB)	99764	MT
M			Bmsy-MT (TB)	602198.00	MT
L50-cm			Brebuild-MT (TB)	200000.00	MT
			Bbuf-MT (TB)	99764	MT
			$TB_{2007}/B_{msy}$	0.189	
			$F_{2007}/F_{msy}$	1.261	
			$SSB_{2007}/SSB_{msy}$	0.163	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1986	1985	1986	1986
Maximum year	2007	2006	2007	2007
Time series minimum	52371	162065	0.4208	106288
Time series maximum	472775	730545	1.6097	571523
Units	MT	E03	1/yr	MT



# Assessment of 0

Assessment ID:INIDEP-ARGHAKESARG-1985-2008-Parma

Issue URL:

Area ID:

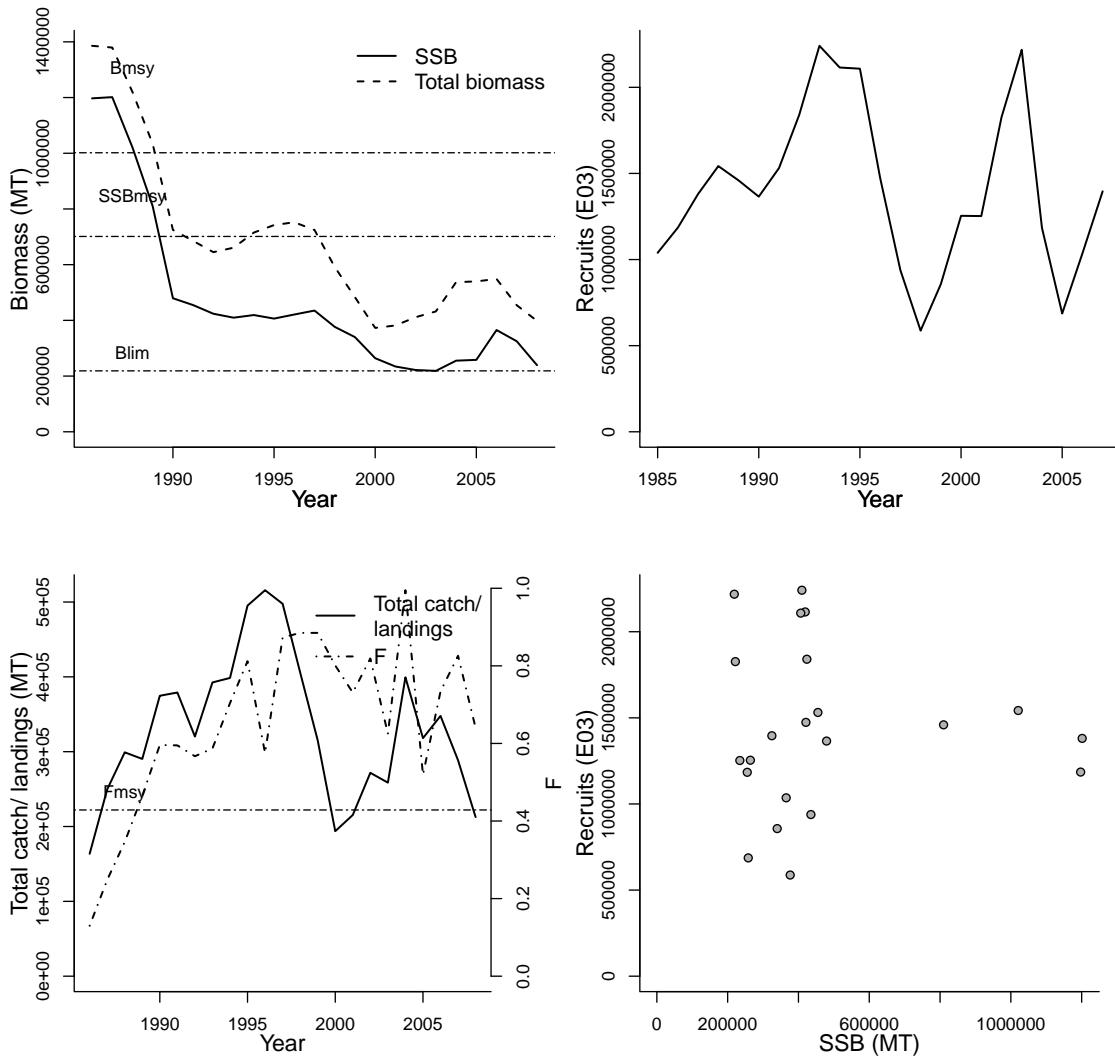
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Renzi, Marta
Assessment method	Virtual Population Analysis
Publication year	2009
Timeseries span	1985-2008
Document	Renzi-hake-S-2009.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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	
14 - Patagonian Shelf			na	na	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-SEX-sex	0	sex	Fmax-1/yr (F)	0.3117	1/yr
REC-AGE-yr	1	yr	Fmsy-1/yr (F)	0.4285	1/yr
F-AGE-yr-yr	3-6	yr-yr	NATMORT-1/yr (M)	0.3	1/yr
TB-AGE-yr	1+	yr	F40%-1/T	0.19080	1/T
A50-yr	2.62	yr	SSBmsy-MT (SSB)	701328.02	MT
M-1/yr	0.3	1/yr	MSY-MT (TB)	277675.26	MT
NATMORT-1/yr	0.3	1/yr	Umsy-ratio (U)	0.27718	ratio
SSB-AGE-yr			Blim-MT (TB)	218713	MT
M			Bmsy-MT (TB)	1001788.06	MT
L50-cm			Brebuild-MT (TB)	500000	MT
			Bbuf-MT (TB)	376680	MT
			$TB_{2008}/B_{msy}$	0.397	
			$F_{2008}/F_{msy}$	1.494	
			$SSB_{2008}/SSB_{msy}$	0.341	

Time series minima and maxima				
	SSB	R	F	Catch
Minimum year	1986	1985	1986	1986
Maximum year	2008	2007	2008	2008
Time series minimum	218713	587405	0.13	372877
Time series maximum	1201451	2241059	0.995	1385781
Units	MT	E03	1/yr	MT



# Assessment of 0

Assessment ID:INIDEP-PATGRENADIERSRARG-1983-2006-Parma

Issue URL:

Area ID:

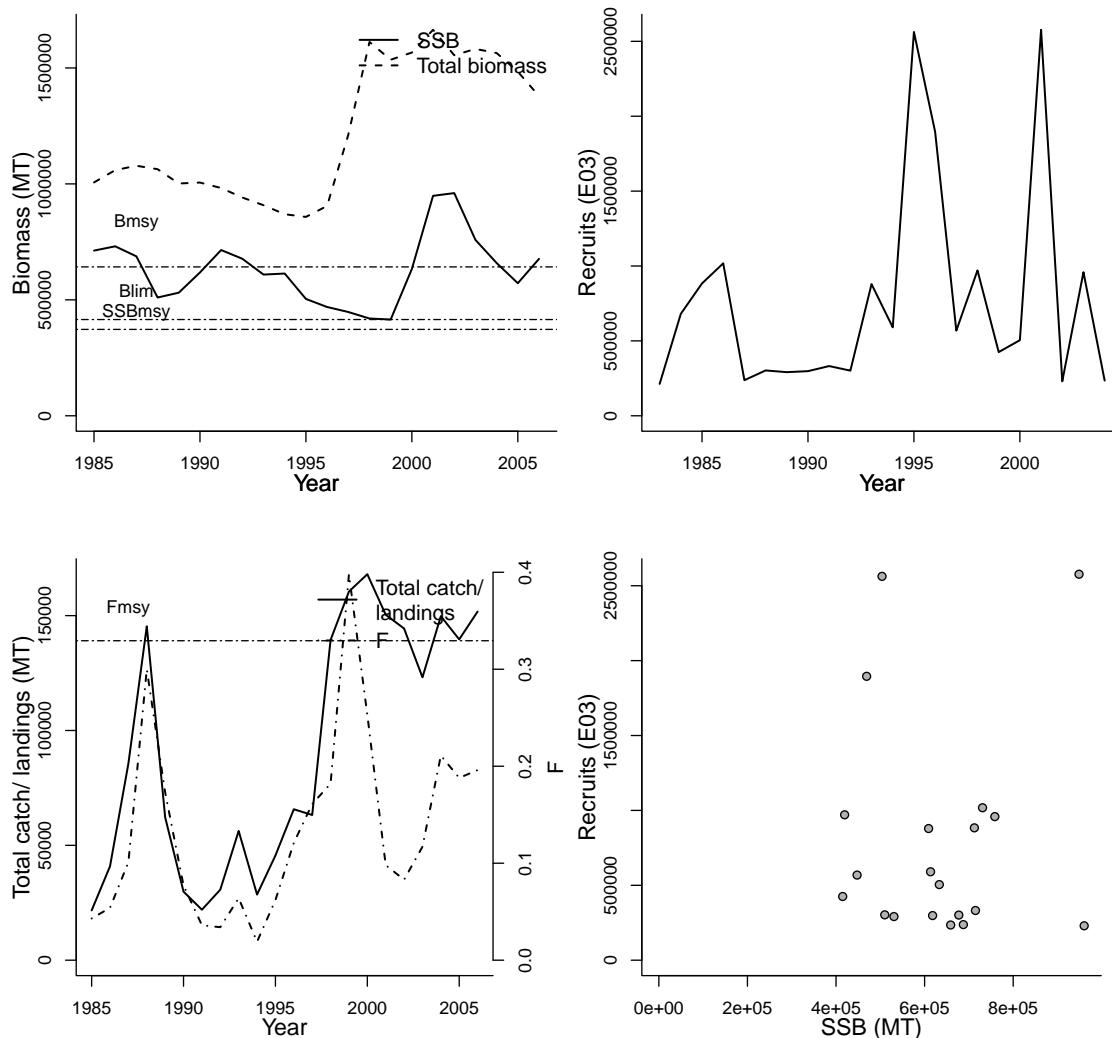
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Giussi, Analia
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1983-2006
Document	Giussi-hoki-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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	
14 - Patagonian Shelf			na	na	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-AGE-yr	3+	yr	Fmax-1/yr (F)	0.3630	1/yr
SSB-SEX-sex	0	sex	Fmsy-1/yr (F)	0.3294	1/yr
REC-AGE-yr	1	yr	NATMORT-1/yr (M)	0.3	1/yr
F-AGE-yr-yr	5- 12	yr-yr	F40%-1/T	0.1842	1/T
TB-AGE-yr	1+	yr	SSBmsy-MT (SSB)	372542.00	MT
A50-yr	3.59	yr	MSY-MT (TB)	132131.00	MT
L50-cm	57.79	cm	Umsy-ratio (U)	0.2058	ratio
M-1/yr	0.3	1/yr	Blim-MT (TB)	415041.00	MT
NATMORT-1/yr	0.3	1/yr	Bmsy-MT (TB)	642031.00	MT
M			Brebuild-MT (TB)	500000.00	MT
			Bbuf-MT (TB)	712405.00	MT
			$TB_{2006}/B_{msy}$	2.147	
			$F_{2006}/F_{msy}$	0.595	
			$SSB_{2006}/SSB_{msy}$	1.817	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1985	1983	1985	1985
Maximum year	2006	2004	2006	2006
Time series minimum	415041	212795	0.019	857676
Time series maximum	960291	2576934	0.398	1664567
Units	MT	E03	1/yr	MT



# Assessment of 0

Assessment ID:INIDEP-SBWHITARGS-1985-2007-Parma  
 Issue URL:

Area ID:

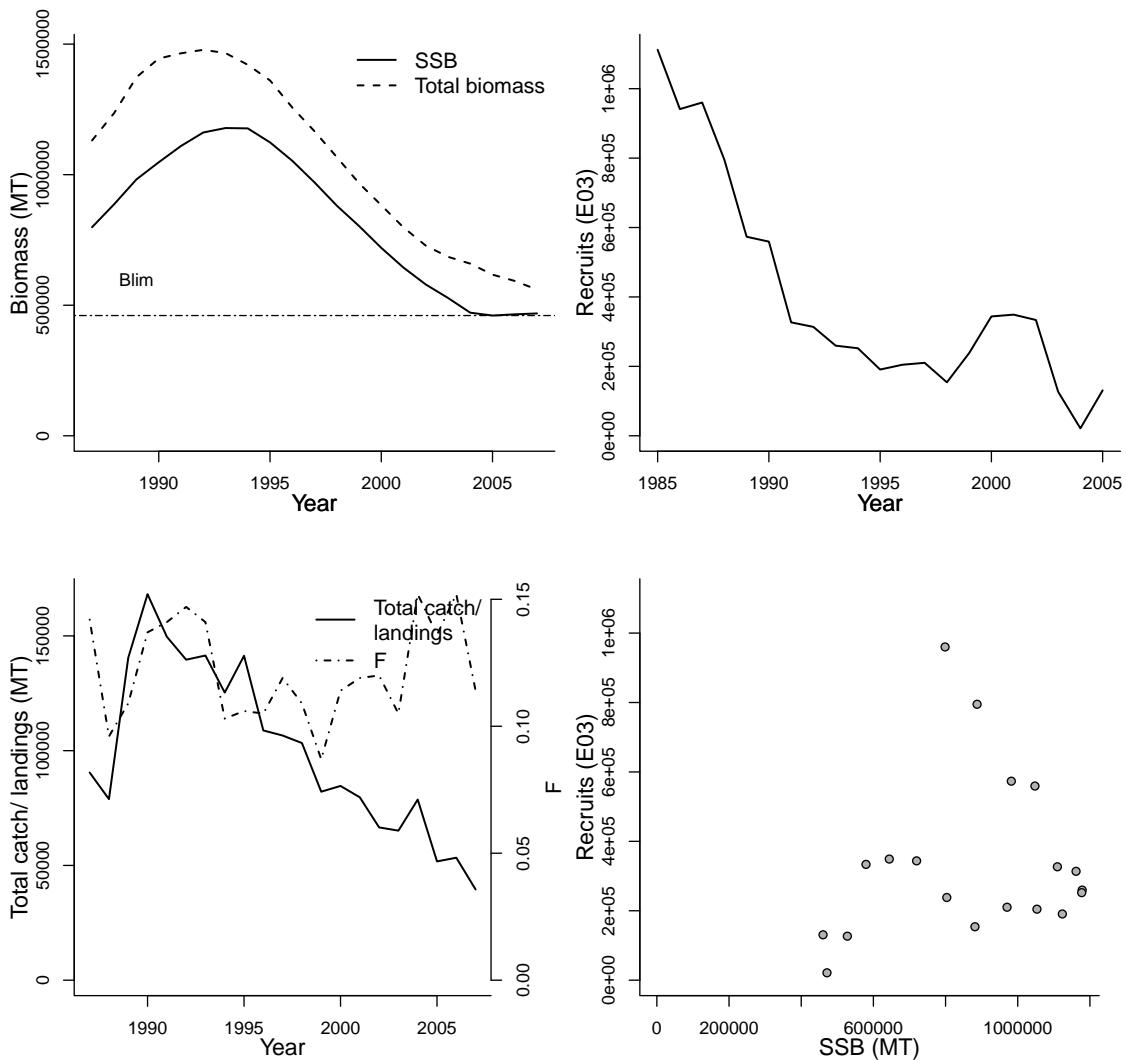
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Giussi, Analia
Assessment method	Virtual Population Analysis
Publication year	2008
Timeseries span	1985-2007
Document	Giussi-polaca-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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	
14 - Patagonian Shelf			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	3+	yr	Parameter	Value	Units
SSB-SEX-sex	0	sex	Fmax-1/yr (F)	0.566	1/yr
REC-AGE-yr	1	yr	Fpa-1/yr (F)	0.05	1/yr
F-AGE-yr-yr	7 - 21	yr-yr	NATMORT-1/yr (M)	0.15	1/yr
TB-AGE-yr	1+	yr	F40%-1/T	0.1930	1/T
A50-yr	3.3	yr	Blim-MT (TB)	460473	MT
L50-cm	35.5	cm	Brebuild-MT (TB)	600000	MT
M-1/T	0.15	1/T	Bbuf-MT (TB)	471387	MT
NATMORT-1/yr	0.15	1/yr			
M					

Time series minima and maxima				
	SSB	R	F	Catch
Minimum year	1987	1985	1987	1987
Maximum year	2007	2005	2007	2007
Time series minimum	460473	21293	0.087	559839
Time series maximum	1178558	1112030	0.152	1478240
Units	MT	E03	1/yr	MT



# Assessment of Indian Ocean bigeye tuna (*Thunnus obesus*)

Assessment ID:IOTC-BIGEYEIO-1957-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/241>

Area ID: multinational-IOTC-IO

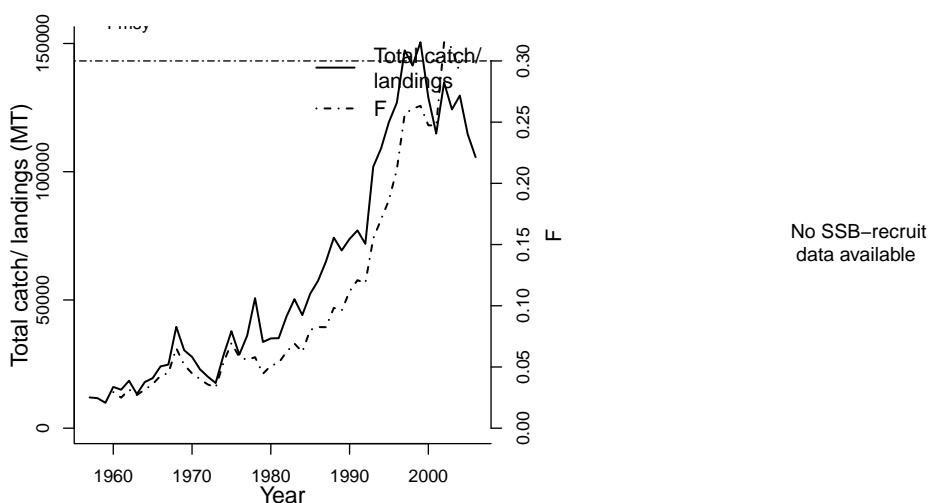
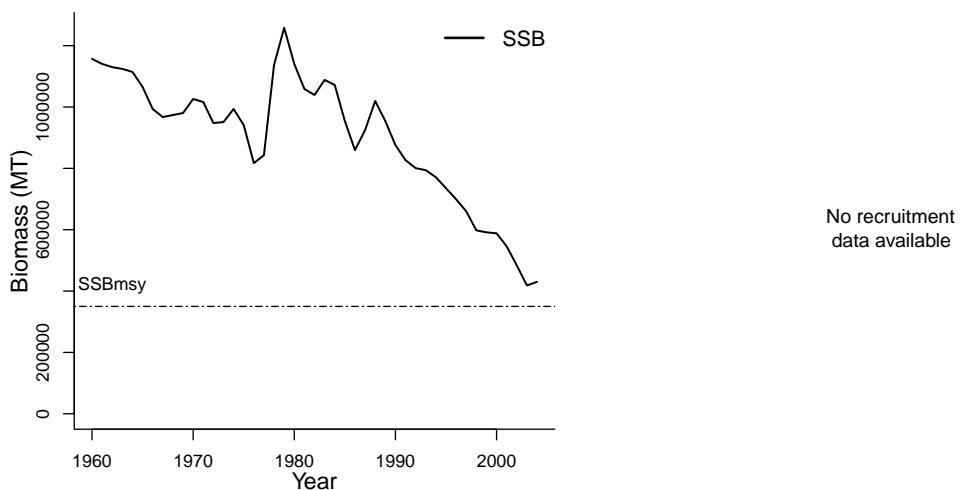
## General assessment details.

Detail	Value
Management body	IOTC
Assessment group	Indian Ocean Tuna Commission
Assessment authors	Anonymous
Assessment method	Age-structured surplus production model
Publication year	2007
Timeseries span	1957-2006
Document	JENSEN-BIGEYEIO-2007.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-08
Date last loaded	2010-07-19
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
-97 - Indian High Seas			na	na	
Parameter	Value	Units	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			Fmsy-1/yr (F)	0.3	1/yr
SSB-SEX-sex			SSBmsy-MT (SSB)	350000	MT
TB-AGE-yr			MSY-MT (TB)	111200	MT
F-AGE-yr			B0-MT	1380000	MT
M			SSB0-MT (SSB)	1150000	MT
A50-yr			$F_{2004}/F_{msy}$	0.967	
L50-cm			$SSB_{2004}/SSB_{msy}$	1.229	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1960		1960	1957
Maximum year	2004		2004	2006
Time series minimum	418300		0.0249	9900
Time series maximum	1258200		0.3153	150500
Units	MT		1/yr	MT



# Assessment of 0

Assessment ID:IPHC-PHALNPAC-1988-2009-Parma  
 Issue URL:

Area ID:

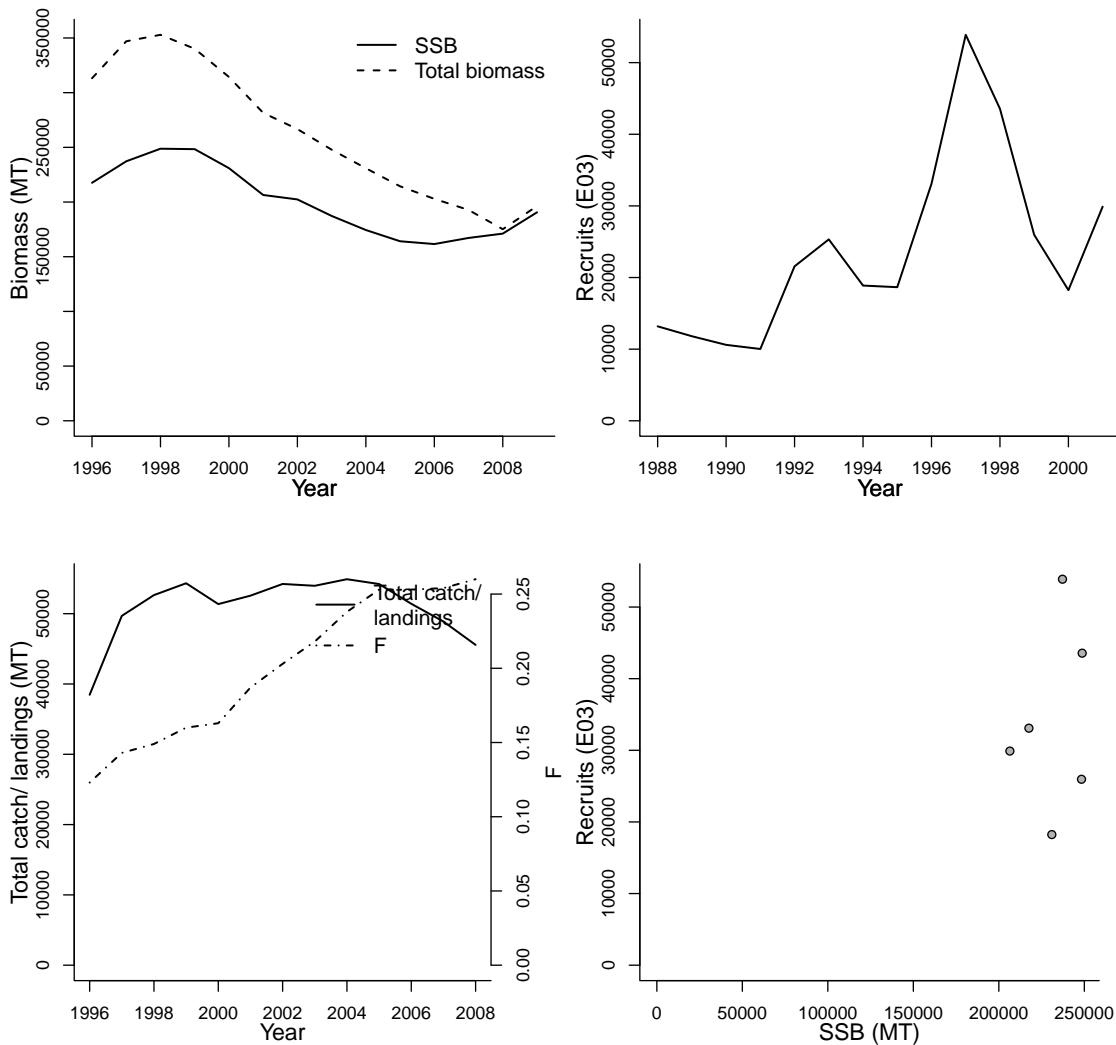
General assessment details.

Detail	Value
Management body	IPHC
Assessment group	International Pacific Halibut Commission
Assessment authors	Hare, Steven
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1988-2009
Document	hare-clark08.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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		
2 - Gulf of Alaska			1 - East Bering Sea			na		
Parameter	Value	Units	Parameter	Reference points		Value	Units	
SSB-AGE-yr	11.59	yr	Flim-1/yr (F)	available		1/yr		
SSB-SEX-sex	1	sex	SSBlimit30%-MT	142758.76		MT		
REC-AGE-yr	8	yr	SSBlimit20%-MT	106464.16		MT		
F-AGE-yr-yr	6+	yr-yr	SSB0-MT (SSB)	531110.98		MT		
TB-AGE-yr	6	yr	ERtarget-ratio	0.2		ratio		
A50-yr	11.59	yr	ERcurrent-ratio	0.26		ratio		
L50-cm	97.63	cm	NATMORT-1/yr (M)	0.15		1/yr		
M-1/yr	0.15	1/yr	SPRF0-E01 (SPR)	29.82		E01		
NATMORT-1/yr	0.15	1/yr	F40%-1/T	0.17		1/T		
M			F0.1-1/yr (F)	0.26		1/yr		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1996	1988	1996	1996
Maximum year	2009	2001	2008	2009
Time series minimum	161580.08	10022.68	0.123	175147.11
Time series maximum	248746.72	53885.1	0.26	352901.09
Units	MT	E03	ratio	MT



# Assessment of South Africa anchovy (*Engraulis encrasicolus*)

Assessment ID: MARAM-ANCHOSA-1984-2006-deMoor

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/126>

Area ID: South Africa-DETMCM-SA

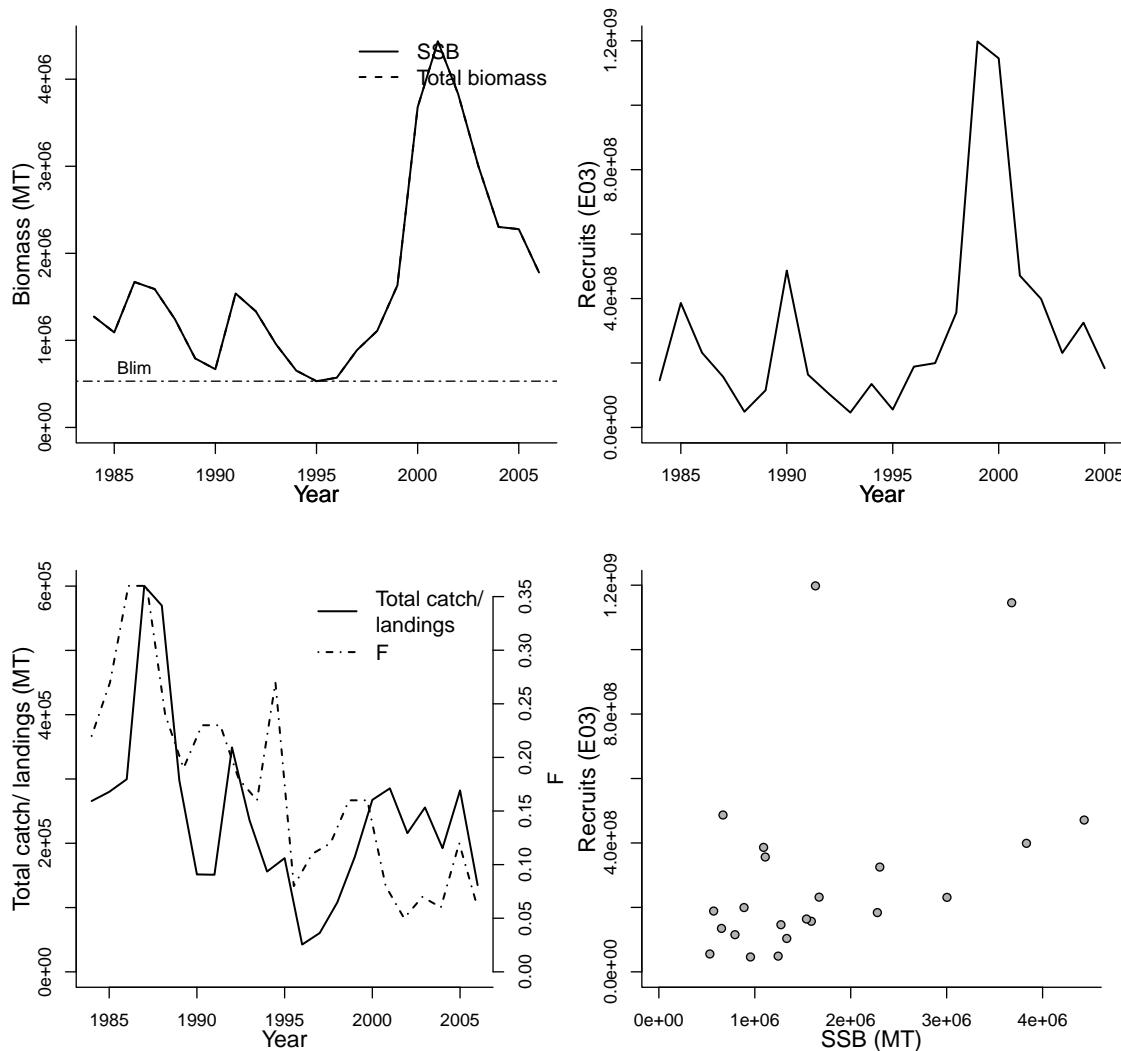
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	deMoor, Carryn L.
Assessment method	Statistical catch-at-age model
Publication year	
Timeseries span	1984-2006
Document	ANCHOSA.pdf (pdf not in database)
Recorder	deMoor
Date entered	2009-01-16
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2010-06-14

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

primary LME		secondary LME	tertiary LME
29 - Benguela Current		30 - Agulhas Current	na
Parameter	Value	Units	
SSB-AGE-yr	1-4+	yr	
SSB-SEX-sex	0	sex	Reference points
REC-AGE-yr	0	yr	Parameter
F-AGE-yr-yr	1+	yr-yr	Value
TB-AGE-yr	1+	yr	Units
M-1/yr	0.9	1/yr	Blim-MT (TB) 531400 MT
M			SSB0-MT (SSB) 1838900 MT
A50-yr			SSBtarget-MT (SSB) 109600 MT
L50-cm			SSBexceptional-MT (SSB) 400000 MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1984	1984	1985	1984	1984
Maximum year	2006	2005	2006	2006	2006
Time series minimum	531441.84	46246000	0.05	531441.84	42475
Time series maximum	4433416.93	1197855000	0.36	4433416.93	600376
Units	MT	E03	1/yr	MT	MT



# Assessment of South Africa shallow-water cape hake (*Merluccius capensis*)

Assessment ID: MARAM-CHAKESA-1917-2008-DEDECKER

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/195>

Area ID: South Africa-DETMCM-SA

## General assessment details.

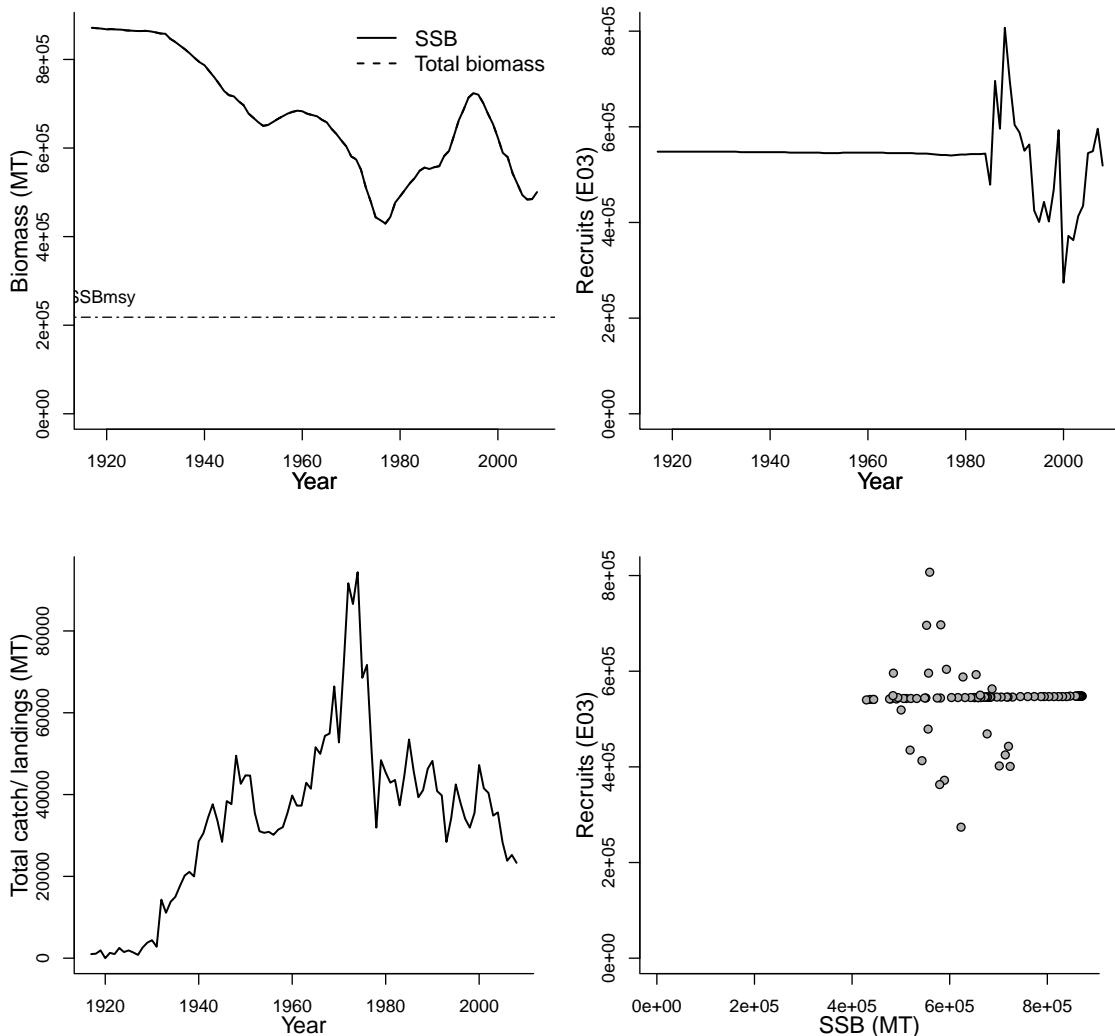
Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Rademeyer, R.A.
Assessment method	Age-structured surplus production model
Publication year	2008
Timeseries span	1917-2008
Document	SA-Mparadoxus-2008-IWS-DEC08-H-5.pdf (pdf in database)
Recorder	DEDECKER
Date entered	2009-02-13
Date last loaded	2010-07-16
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		
29 - Benguela Current			30 - Agulhas Current			na		
Parameter	Value	Units	Reference points					
SSB-AGE-yr	3+	yr	Parameter	Value	Units			
SSB-SEX-sex	0	sex	SSBmsy-MT (SSB)	218000	MT			
REC-AGE-yr	0	yr	SSB0-MT (SSB)	871000	MT			
F-AGE-yr-yr	0-7+	yr-yr	R0-E09 (R)	0.548	E09			
TB-AGE-yr	3	yr	MSY-MT (TB)	86000	MT			
A50-yr	3	yr	BH-h-dimless	0.95	dimless			
M-1/yr	0.4	1/yr	SSB <sub>2008</sub> /SSB <sub>msy</sub>	2.296				
M								
L50-cm								

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1917	1917		1917	1917
Maximum year	2008	2008		2008	2008
Time series minimum	429458.4	274000		429458.4	0
Time series maximum	871443.8	807000		871443.8	94359
Units	MT	E03		MT	MT



# Assessment of South Africa Areas 1-2 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID:MARAM-CRLOBSTERSA12-1910-2008-Johnston

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/135>

Area ID: South Africa-DETMCM-1-2

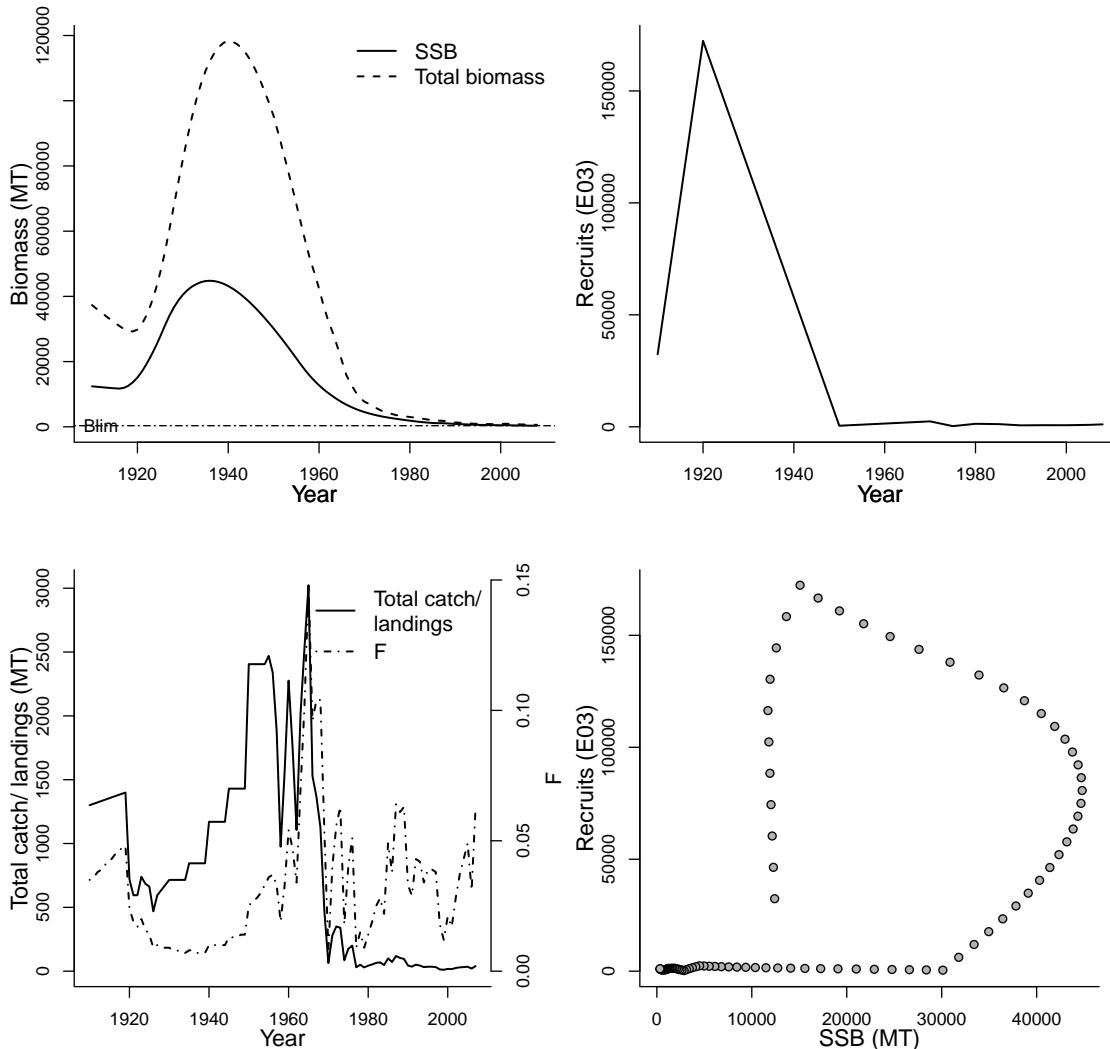
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
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
29 - Benguela Current			na	na
Parameter	Value	Units		
SSB-SEX-sex	1	sex		
REC-AGE-yr	0	yr	Reference points	
L50-cm	6.5	cm	Parameter	Value
M-1/yr	0.1	1/yr	Blim-MT (TB)	326
SSB-AGE-yr			SSB0-MT (SSB)	12407
TB-AGE-yr			R0-E00	32386294
F-AGE-yr				E00
M				
A50-yr				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1910	1910	1910	1910
Maximum year	2008	2008	2007	2008
Time series minimum	326.94	289.43869	0.007	593.17
Time series maximum	44795.87	172388.67	0.148	118382.77
Units	MT	E03	1/yr	MT



# Assessment of South Africa Areas 3-4 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID: MARAM-CRLOBSTERSA34-1910-2008-Johnston

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/136>

Area ID: South Africa-DETMCM-3-4

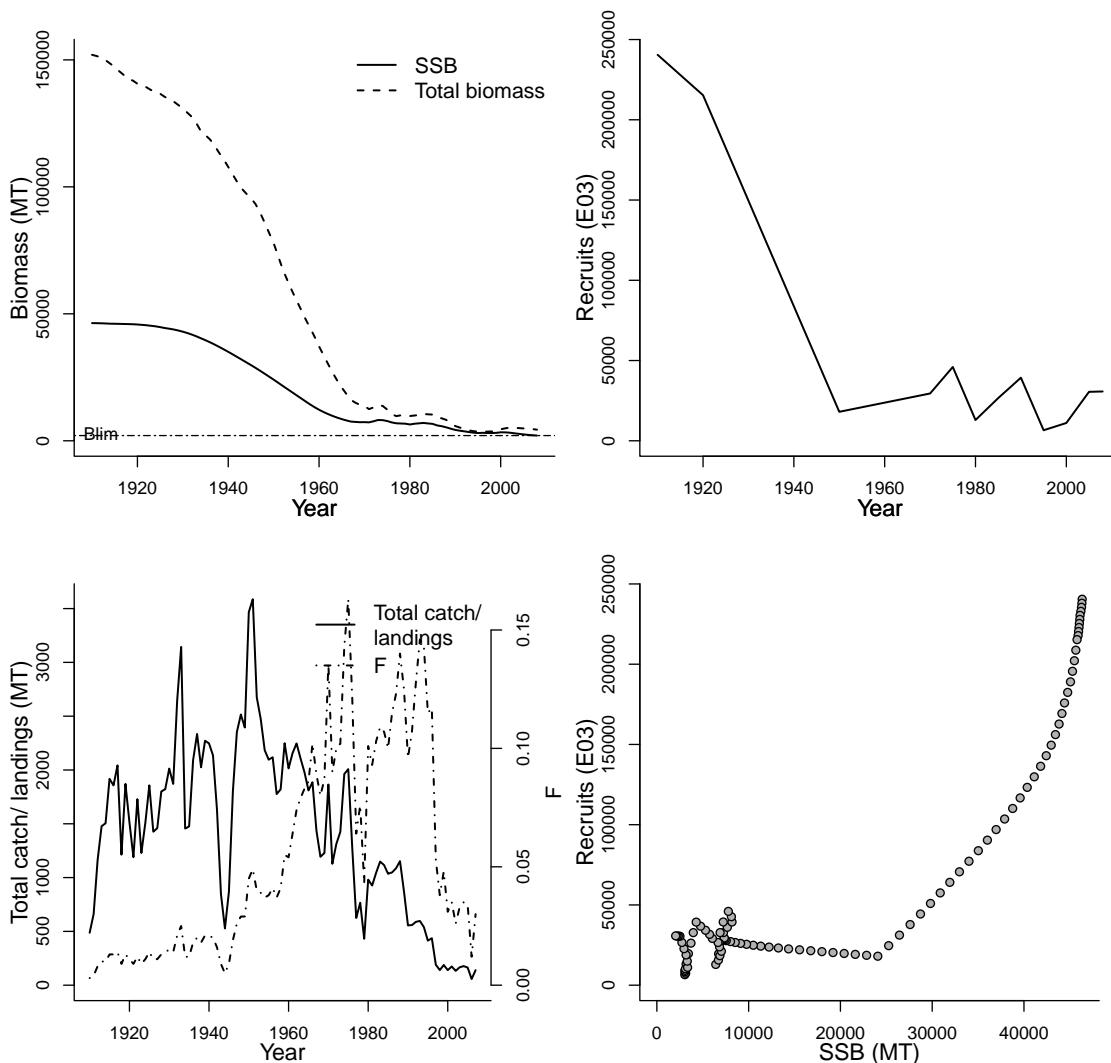
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
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
29 - Benguela Current			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	1	sex			
REC-AGE-yr	0	yr			
L50-cm	6.5	cm	Parameter	Value	Units
M-1/yr	0.1	1/yr	Blim-MT (TB)	2048	MT
SSB-AGE-yr			SSB0-MT (SSB)	46342	MT
TB-AGE-yr			RO-E00	240492130	E00
F-AGE-yr					
M					
A50-yr					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1910	1910	1910	1910
Maximum year	2008	2008	2007	2008
Time series minimum	2047.91	6554.977	0.003	3589.86
Time series maximum	46342.25	240492.13	0.163	151997.41
Units	MT	E03	1/yr	MT



# Assessment of South Africa Areas 5-6 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID: MARAM-CRLOBSTERSA56-1910-2008-Johnston

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/137>

Area ID: South Africa-DETMCM-5-6

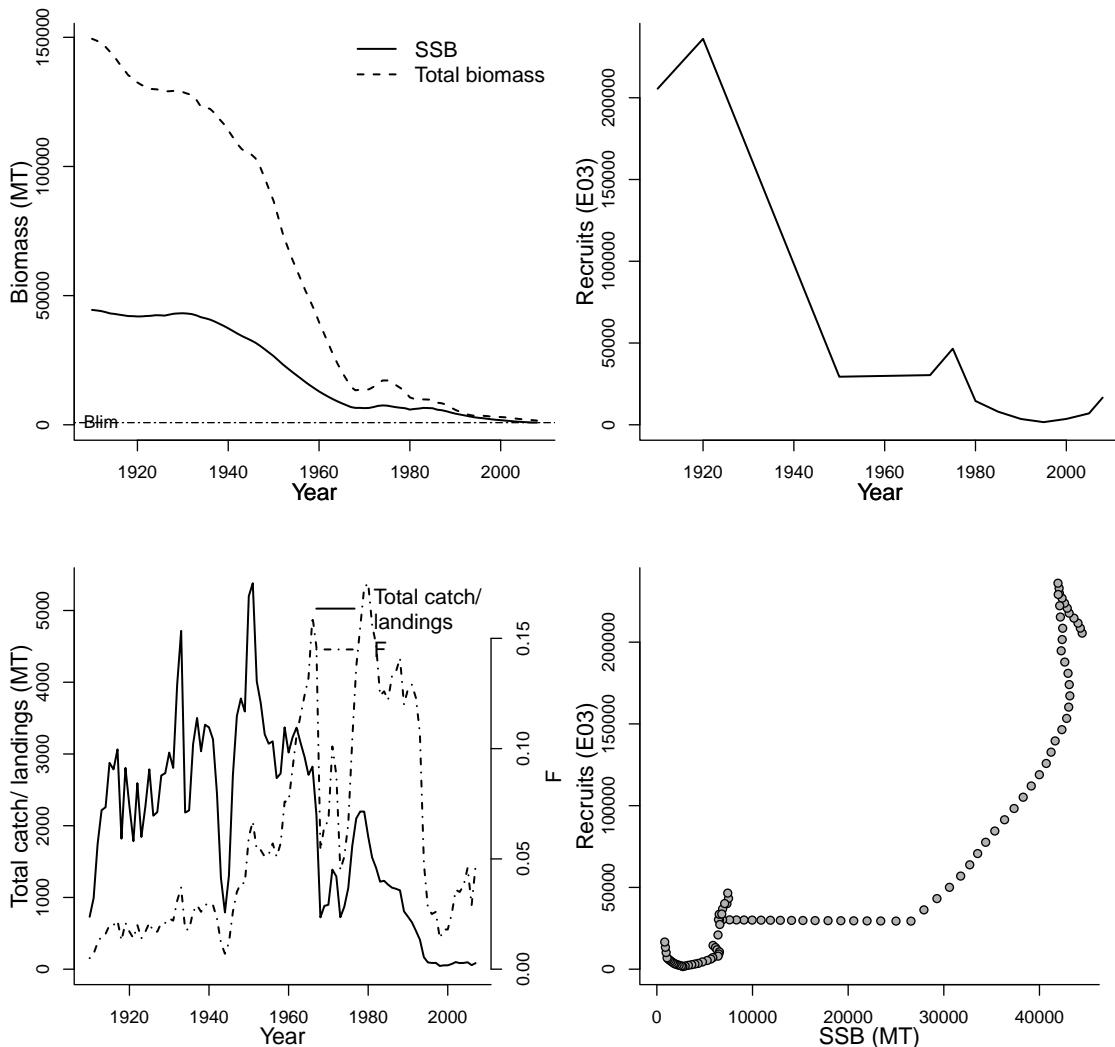
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
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
29 - Benguela Current			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	1	sex			
REC-AGE-yr	0	yr			
F-AGE-yr-yr		yr-yr	Parameter	Value	Units
L50-cm	6.5	cm	Blim-MT (TB)	822	MT
M-1/yr	0.1	1/yr	SSBO-MT (SSB)	44464	MT
SSB-AGE-yr			RO-E00	205531950	E00
TB-AGE-yr					
M					
A50-yr					

Time series minima and maxima				
	SSB	R	F	Catch
Minimum year	1910	1910	1910	1910
Maximum year	2008	2008	2007	2007
Time series minimum	822.13	1611.32375	0.005	1617.85
Time series maximum	44464.08	236047.94	0.175	149419.94
Units	MT	E03	1/yr	MT



# Assessment of South Africa Area 7 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID: MARAM-CRLOBSTERSA7-1910-2008-Johnston

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/138>

Area ID: South Africa-DETMCM-7

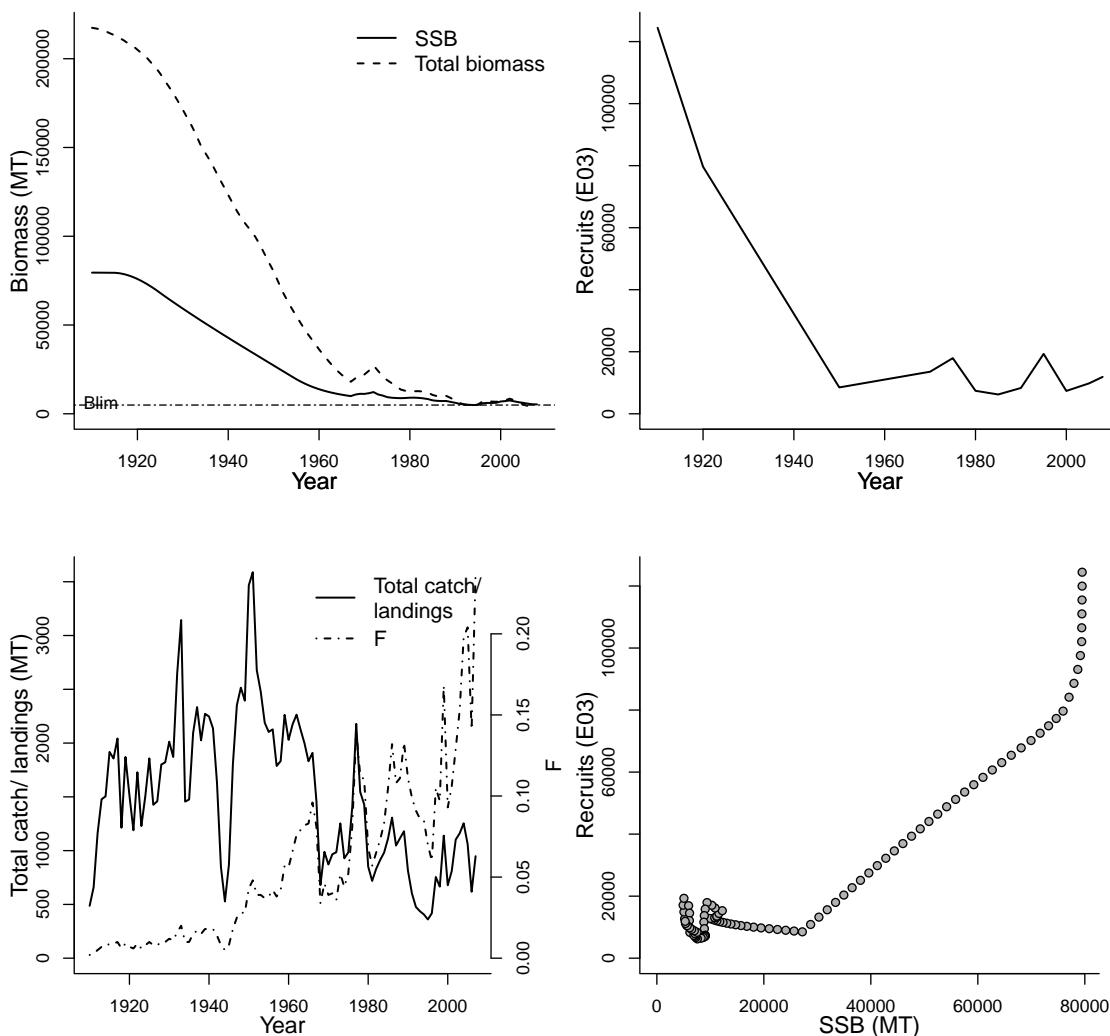
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
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
29 - Benguela Current			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	1	sex			
REC-AGE-yr	0	yr			
L50-cm	6.5	cm	Parameter	Value	Units
M-1/yr	0.1	1/yr	Blim-MT (TB)	4913	MT
SSB-AGE-yr			SSB0-MT (SSB)	79509	MT
TB-AGE-yr			RO-E00	124447910	E00
F-AGE-yr					
M					
A50-yr					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1910	1910	1910	1910
Maximum year	2008	2008	2007	2008
Time series minimum	4912.78	6224.131	0.002	3476.71
Time series maximum	79508.87	124447.91	0.238	217412.98
Units	MT	E03	1/yr	MT



# Assessment of South Africa Area 8 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID: MARAM-CRLOBSTERSA8-1910-2008-Johnston

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/139>

Area ID: South Africa-DETMCM-8

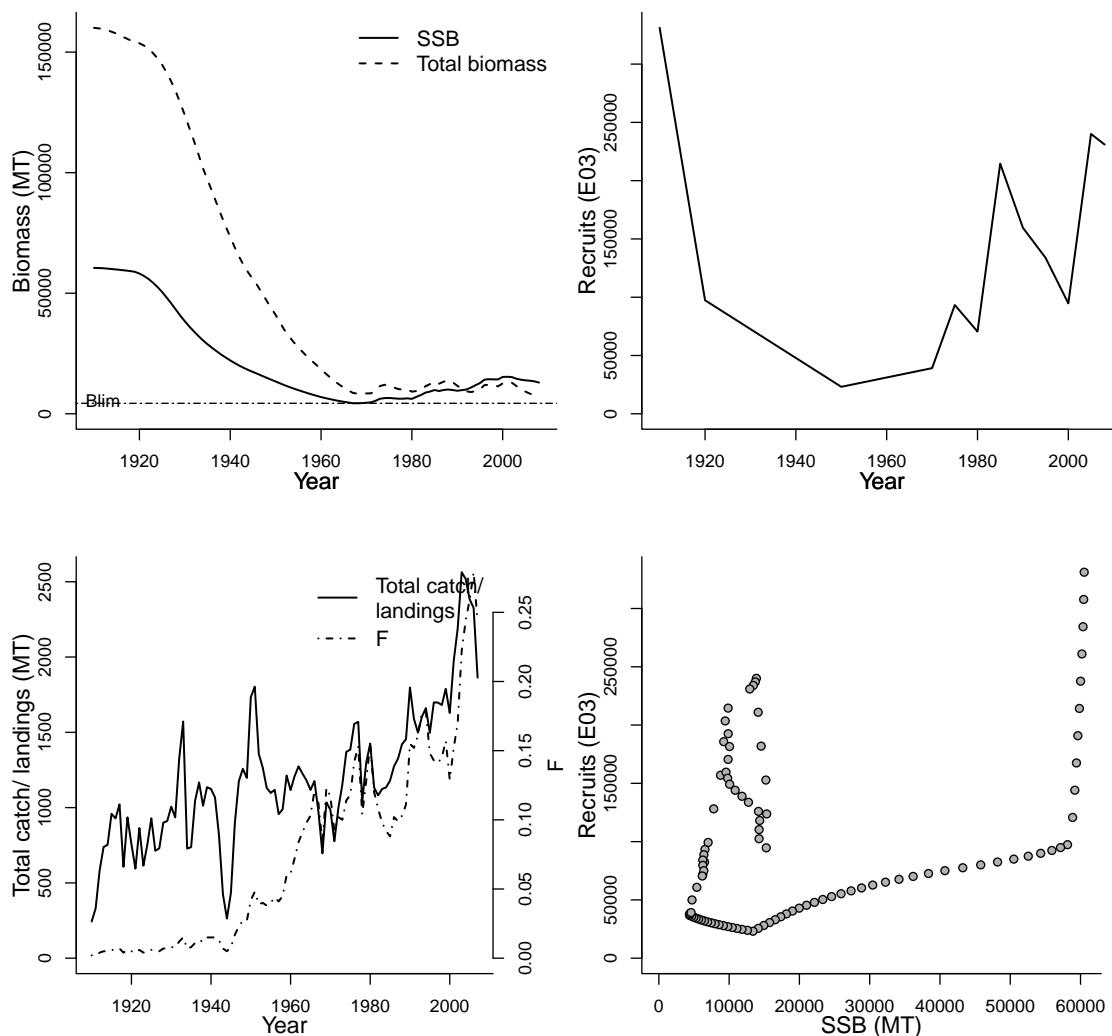
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
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
29 - Benguela Current			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	1	sex			
REC-AGE-yr	0	yr			
L50-cm	6.5	cm	Parameter	Value	Units
M-1/yr	0.1	1/yr	Blim-MT (TB)	4350	MT
SSB-AGE-yr			SSB0-MT (SSB)	60521	MT
TB-AGE-yr			RO-E00	331132540	E00
F-AGE-yr					
M					
A50-yr					

	Time series minima and maxima				
	SSB	R	F	TB	Catch
Minimum year	1910	1910	1910	1910	1910
Maximum year	2008	2008	2007	2008	2007
Time series minimum	4350.07	23132.88	0.002	7157.77	243.61
Time series maximum	60520.58	331132.54	0.279	160088.06	2563.4
Units	MT	E03	1/yr	MT	MT



# Assessment of South Africa South coast cape horse mackerel (*Trachurus capensis*)

Assessment ID:MARAM-CTRACSA-1950-2007-Johnston

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/134>

Area ID: South Africa-DETMCM-SASC

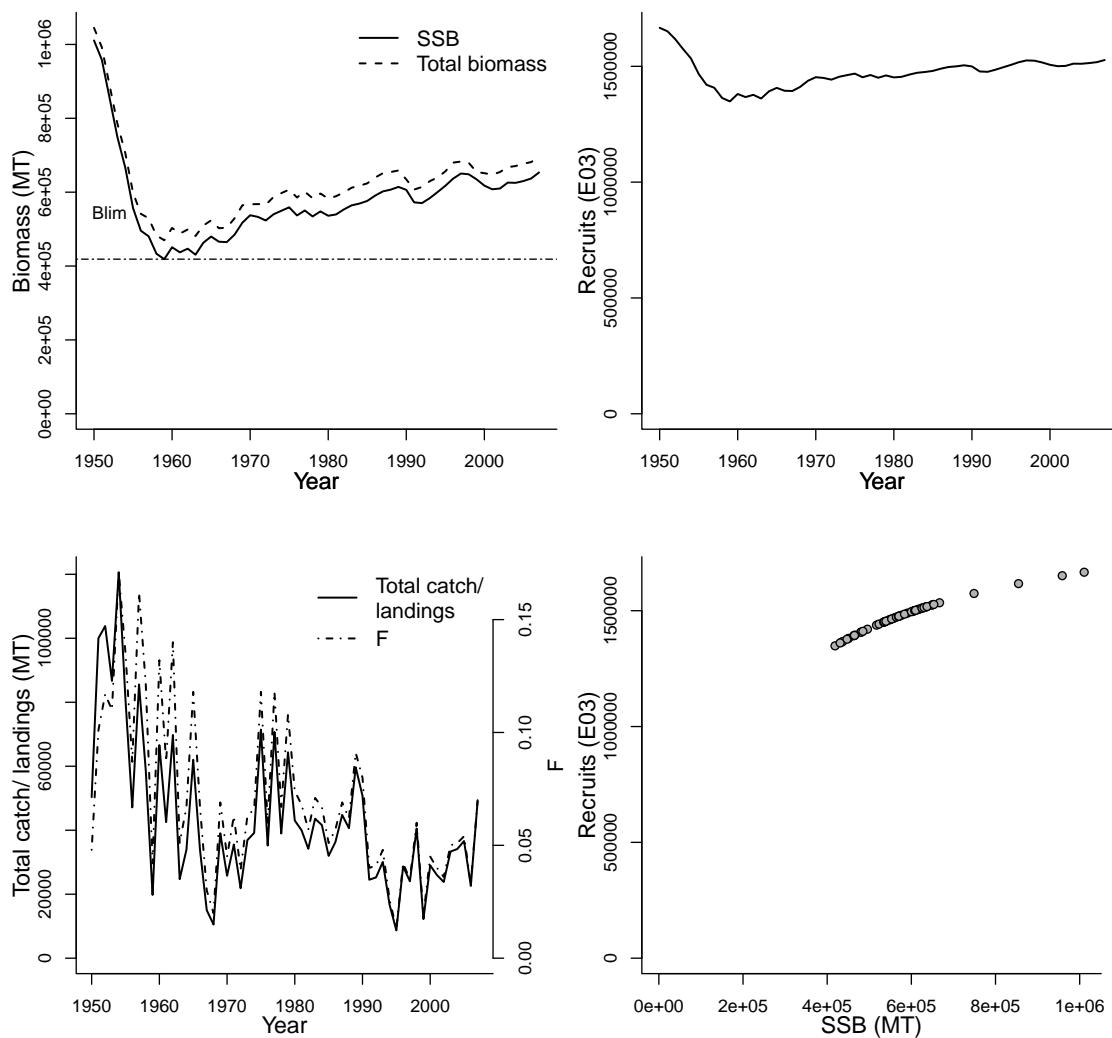
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Age-structured surplus production model
Publication year	2007
Timeseries span	1950-2007
Document	Johnston-SAHouseMackerel-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
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	
30 - Agulhas Current			na		na	
Parameter	Value	Units	Reference points			
SSB-SEX-sex	0	sex	Parameter	Value	Units	
REC-AGE-yr	0	yr	Blim-MT (TB)	418631	MT	
F-AGE-yr-yr	0-10	yr-yr	SSB0-MT (SSB)	1010700	MT	
A50-yr	3	yr	R0-E00	166623000	E00	
M-1/yr	0.3	1/yr	BH-h-dimless	0.6	dimless	
SSB-AGE-yr						
TB-AGE-yr						
M						
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1950	1950	1950	1950
Maximum year	2007	2007	2007	2007
Time series minimum	418631	1348400	0.013	469844
Time series maximum	1010700	1666230	0.171	1045060
Units	MT	E03	1/yr	MT



# Assessment of South Africa deep-water cape hake (*Merluccius paradoxus*)

Assessment ID:MARAM-DEEPCHAKESA-1917-2008-DEDECKER

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/196>

Area ID: South Africa-DETMCM-SA

## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Rademeyer, R.A.
Assessment method	Age-structured surplus production model
Publication year	2008
Timeseries span	1917-2008
Document	SA-Mparadoxus-2008-IWS-DEC08-H-5.pdf (pdf in database)
Recorder	DEDECKER
Date entered	2009-02-13
Date last loaded	2010-07-16
QA/QC complete	NO
Date approved	

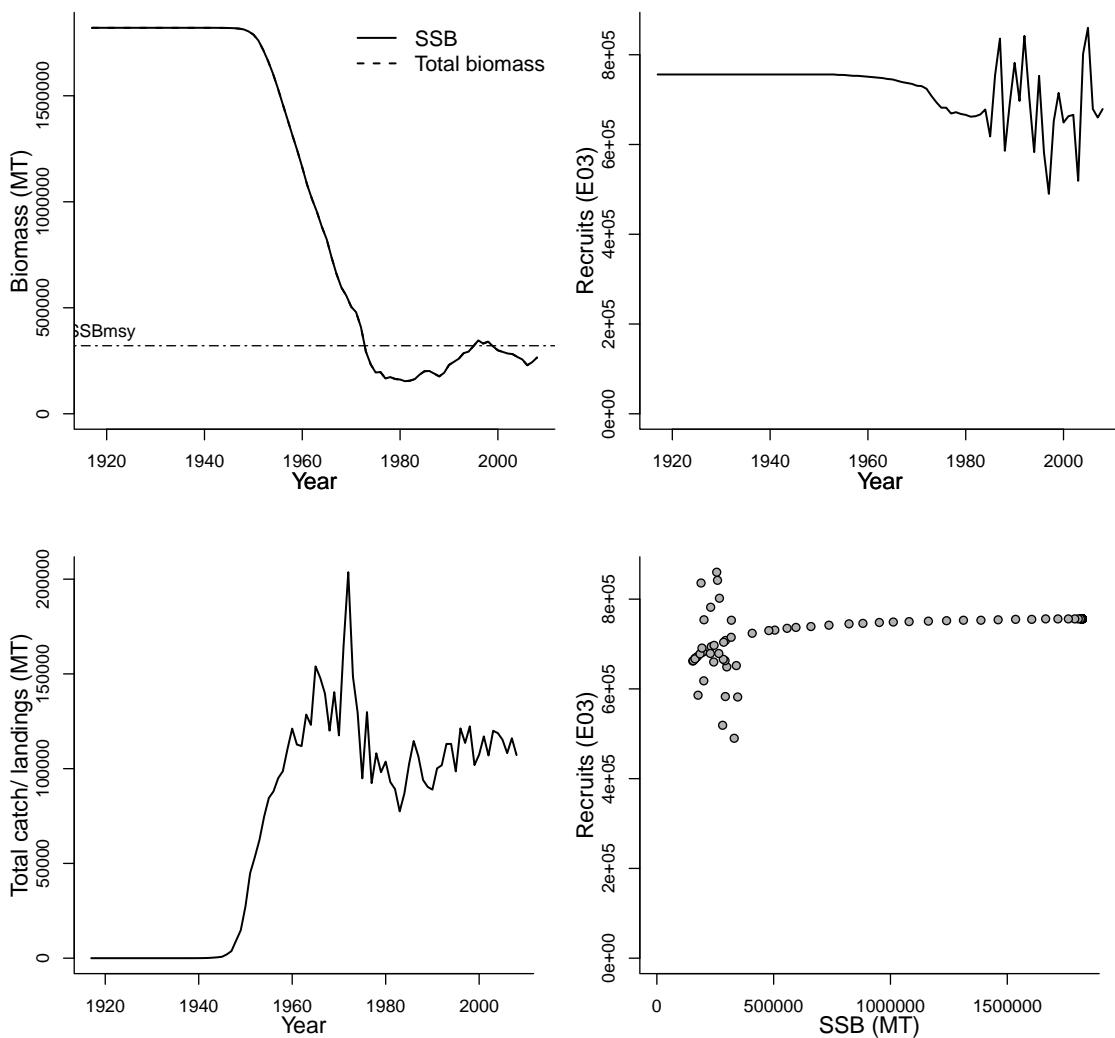
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME		secondary LME	tertiary LME
29 - Benguela Current		30 - Agulhas Current	na
Parameter	Value	Units	
SSB-AGE-yr	3+	yr	
SSB-SEX-sex	0	sex	
REC-AGE-yr	0	yr	
F-AGE-yr-yr	0-5+	yr-yr	
TB-AGE-yr	3	yr	
A50-yr	3	yr	
M-1/T	AVAILABLE	1/T	
M-1/yr	AVAILABLE	1/yr	
M			
L50-cm			

Reference points					
			Parameter	Value	Units
SSBmsy-MT (SSB)	321000	MT			
SSB0-MT (SSB)	1821000	MT			
R0-E09 (R )	0.756	E09			
MSY-MT (TB)	113500	MT			
BH-h-dimless	0.95	dimless			
$SSB_{2008}/SSB_{msy}$	0.826				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1917	1917		1917
Maximum year	2008	2008		2008
Time series minimum	153751.4	490000	153751.4	0
Time series maximum	1820629.2	860000	1820629.2	203658
Units	MT	E03	MT	MT



# Assessment of South Africa kingklip (*Genypterus capensis*)

Assessment ID:MARAM-KINGKLIPSA-1932-2008-DEDECKER

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/201>

Area ID: South Africa-DETMCM-SA

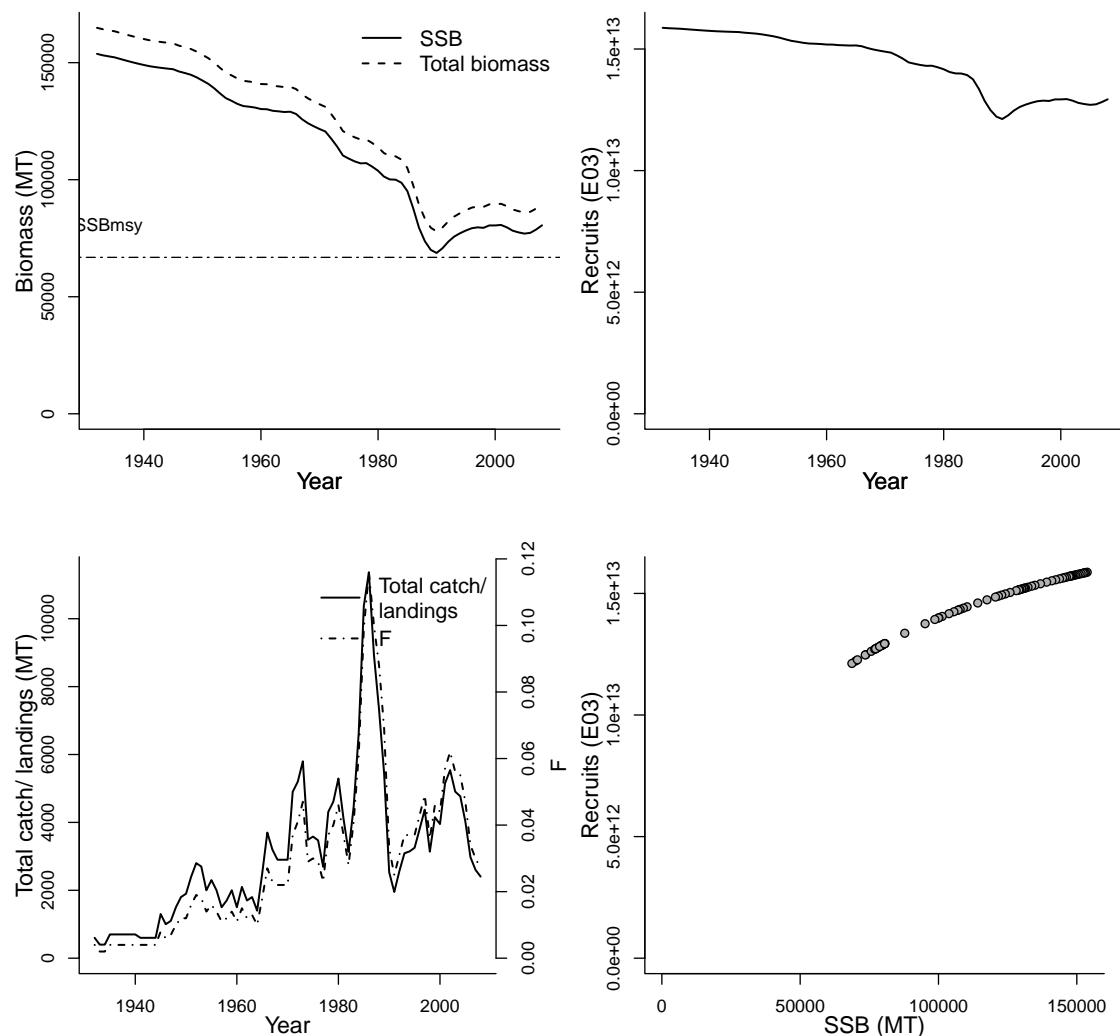
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Brandao, A.
Assessment method	Age-structured surplus production model
Publication year	2008
Timeseries span	1932-2008
Document	Branch-SA-Kingklip-2008.pdf (pdf in database)
Recorder	DEDECKER
Date entered	2009-03-29
Date last loaded	2010-07-16
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		
29 - Benguela Current			30 - Agulhas Current			na		
Parameter	Value	Units	Reference points					
SSB-AGE-yr	5+	yr	Parameter	Value	Units			
SSB-SEX-sex	1	sex	SSBmsy-MT (SSB)	66828	MT			
REC-AGE-yr	0	yr	SSB0-MT (SSB)	153752	MT			
F-AGE-yr-yr	0+	yr-yr	MSY-MT (TB)	66882	MT			
TB-AGE-yr	0+	yr	BH-h-dimless	0.5	dimless			
A50-yr	5	yr	SSB <sub>2008</sub> /SSB <sub>msy</sub>	1.205				
M-1/yr	0.2	1/yr						
M								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1932	1932	1932	1932	1932
Maximum year	2008	2008	2008	2008	2008
Time series minimum	68700.1	12120900000000	0.002	77875.9	400
Time series maximum	153752	15872300000000	0.116	164889	11370
Units	MT	E03	1/yr	MT	MT



# Assessment of South Africa Subantarctic Prince Edward Islands patagonian toothfish

*(Dissostichus eleginoides)*

Assessment ID: MARAM-PTOOTHFISHPEI-1960-2008-DEDECKER  
 Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/199>

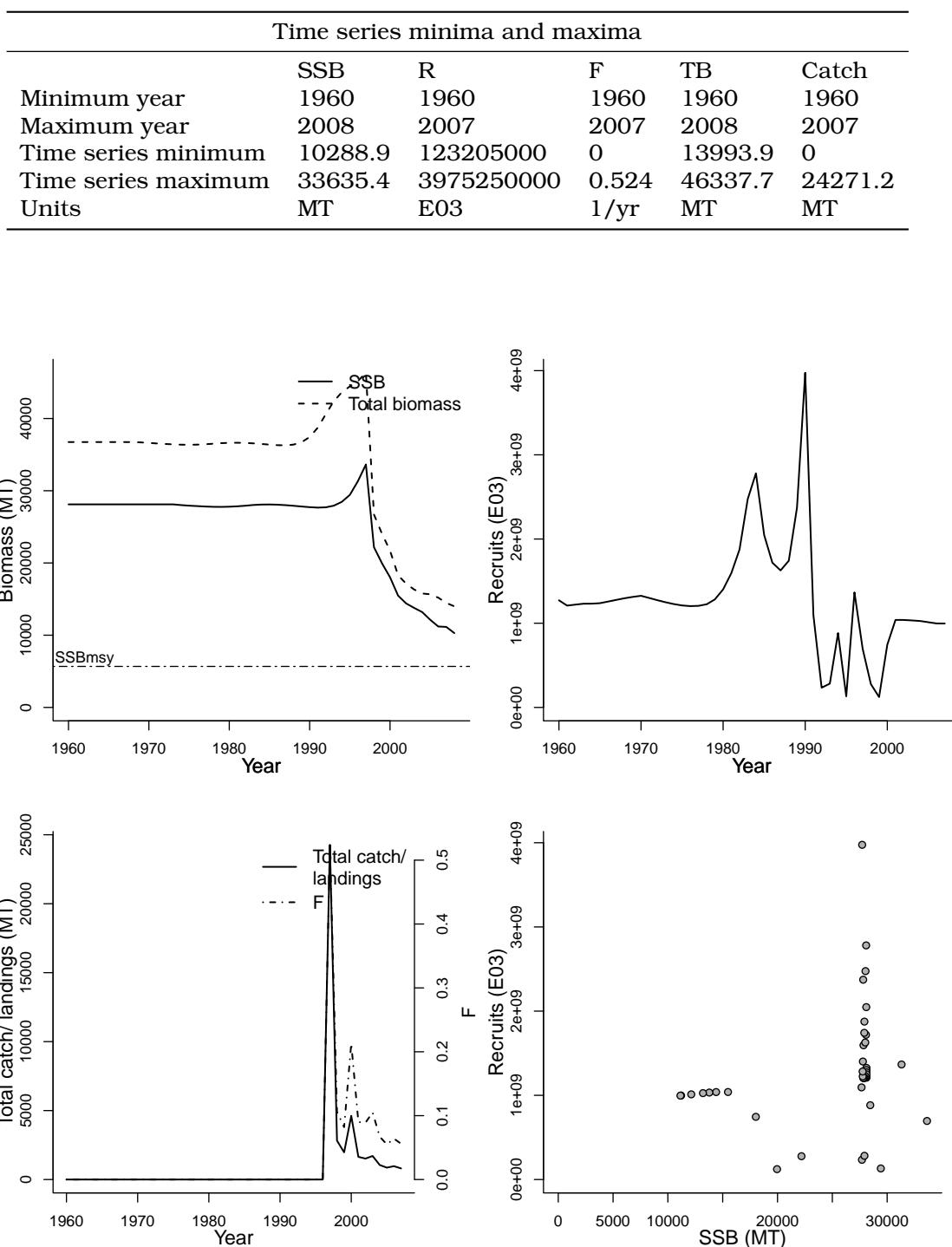
Area ID: South Africa-DETMCM-PEI

General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Brandao, A
Assessment method	Age-structured surplus production model
Publication year	2007
Timeseries span	1960-2008
Document	Branch-SA-Toothfish-2007.pdf (pdf in database)
Recorder	DEDECKER
Date entered	2009-03-05
Date last loaded	2010-07-16
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			
-96 - Subantarctic High Seas			na	na				
Parameter	Value	Units	Reference points					
SSB-AGE-yr	13+	yr	Parameter	Value	Units			
SSB-SEX-sex	1	sex	SSBmsy-MT (SSB)	5678	MT			
REC-AGE-yr	0	yr	SSB0-MT (SSB)	28111	MT			
TB-AGE-yr	6+	yr	MSY-MT (TB)	2366	MT			
A50-yr	13	yr	BH-h-dimless	0.75	dimless			
M-1/yr	0.13	1/yr	$SSB_{2008}/SSB_{msy}$	1.812				
F-AGE-yr								
M								
L50-cm								



# Assessment of South Africa south african abalone (*Haliotis midae*)

Assessment ID: MARAM-SAABALONESA-1951-2008-PLAGANYI  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/198>

Area ID: South Africa-DETMCM-SA

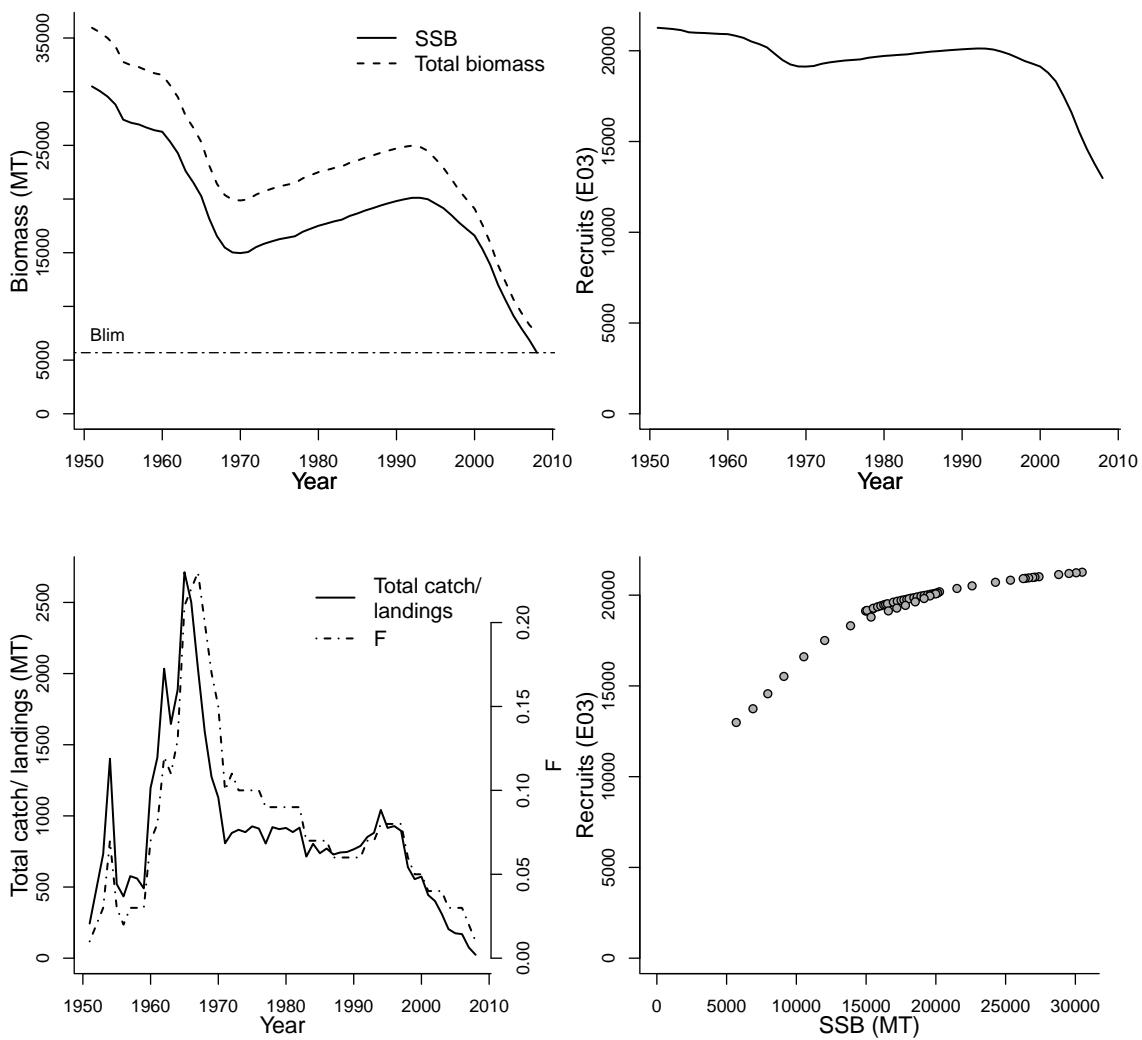
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Plaganyi, E.E.
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1951-2008
Document	Plaganyi-SA-abalone-2008NOVSWG-AB21.pdf (pdf in database)
Recorder	PLAGANYI
Date entered	2009-03-13
Date last loaded	2010-07-16
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			
29 - Benguela Current			na	na				
Parameter	Value	Units	Reference points					
SSB-AGE-yr	7+	yr	Parameter	Value	Units			
SSB-SEX-sex	0	sex	Blim-MT (TB)	5689	MT			
REC-AGE-yr	0	yr	SSB0-MT (SSB)	30489	MT			
F-AGE-yr-yr	3+	yr-yr						
TB-AGE-yr	1+	yr						
A50-yr	5	yr						
M-1/yr	0.326	1/yr						
M								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1951	1951	1951	1951
Maximum year	2008	2008	2008	2008
Time series minimum	5689.03	12985	0.01	7467.76
Time series maximum	30488.96	21263.9	0.23	35949.1
Units	MT	E03	1/yr	MT



# Assessment of South Africa sardine (*Sardinops sagax*)

Assessment ID:MARAM-SARDSA-1984-2006-deMoor

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/127>

Area ID: South Africa-DETMCM-SA

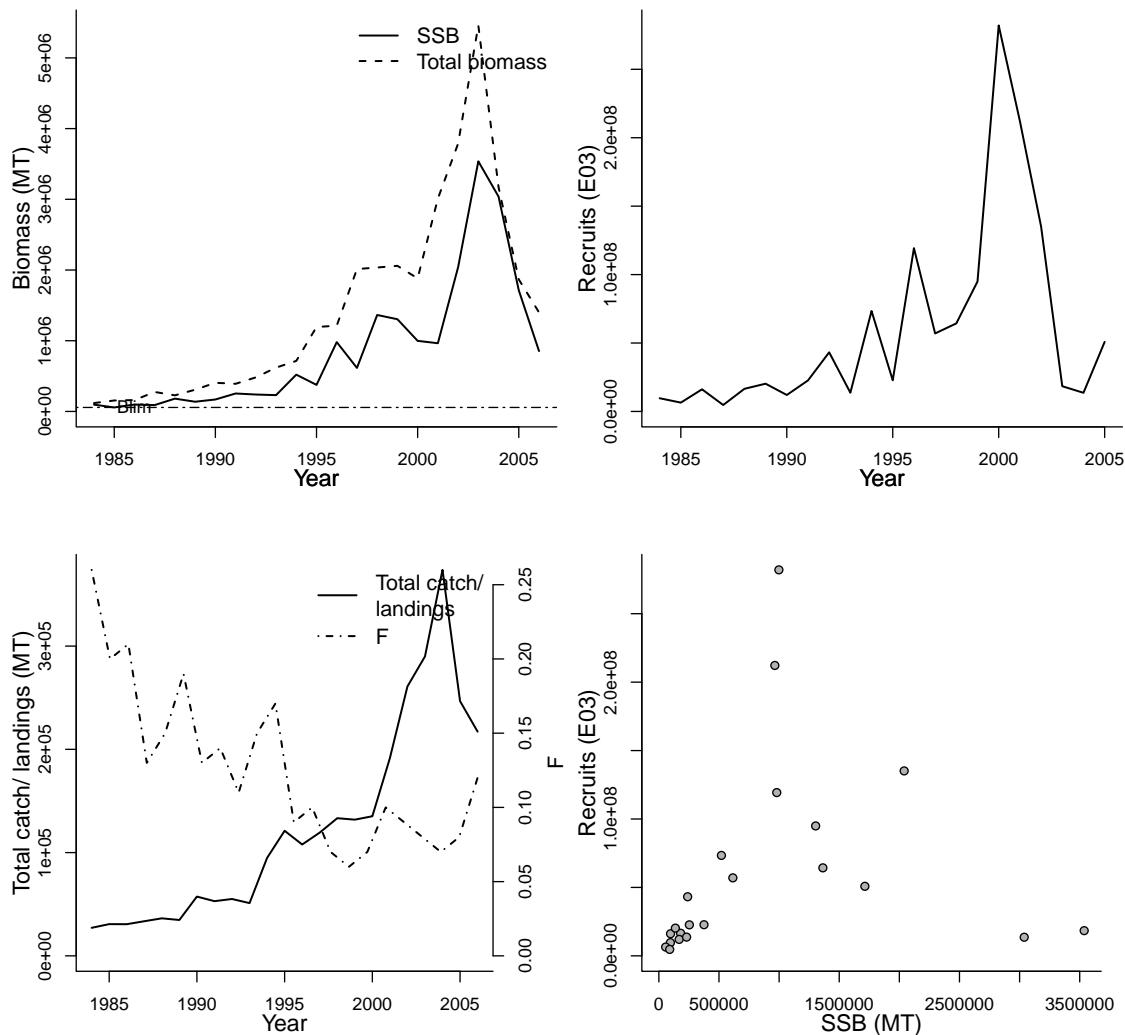
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Cunningham, C.L.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1984-2006
Document	deMoorSASardineAssessment-Sep07.pdf (pdf not in database)
Recorder	deMoor
Date entered	2009-01-16
Date last loaded	2010-07-16
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		
29 - Benguela Current			30 - Agulhas Current			na		
Parameter	Value	Units	Reference points					
SSB-AGE-yr	2-5+	yr	Parameter	Value	Units			
SSB-SEX-sex	0	sex	Blim-MT (TB)	56500	MT			
REC-AGE-yr	0	yr	SSB0-MT (SSB)	3446300	MT			
F-AGE-yr-yr		yr-yr	SSBtarget-MT (SSB)	594700	MT			
TB-AGE-yr	1+	yr	SSBexceptional-MT (SSB)	300000	MT			
A50-yr	2	yr						
M-1/yr	0.8	1/yr						
M								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1984	1984	1985	1984	1984
Maximum year	2006	2005	2006	2006	2006
Time series minimum	56511.907	4696000	0.06	118365.989	27154
Time series maximum	3537069.855	282029000	0.26	5458516.579	373811
Units	MT	E03	1/yr	MT	MT



# Assessment of South Africa South coast southern spiny lobster (*Palinurus gilchristi*)

Assessment ID: MARAM-SSLOBSTERSASC-1973-2008-Johnston

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/133>

Area ID: South Africa-DETMCM-SASC

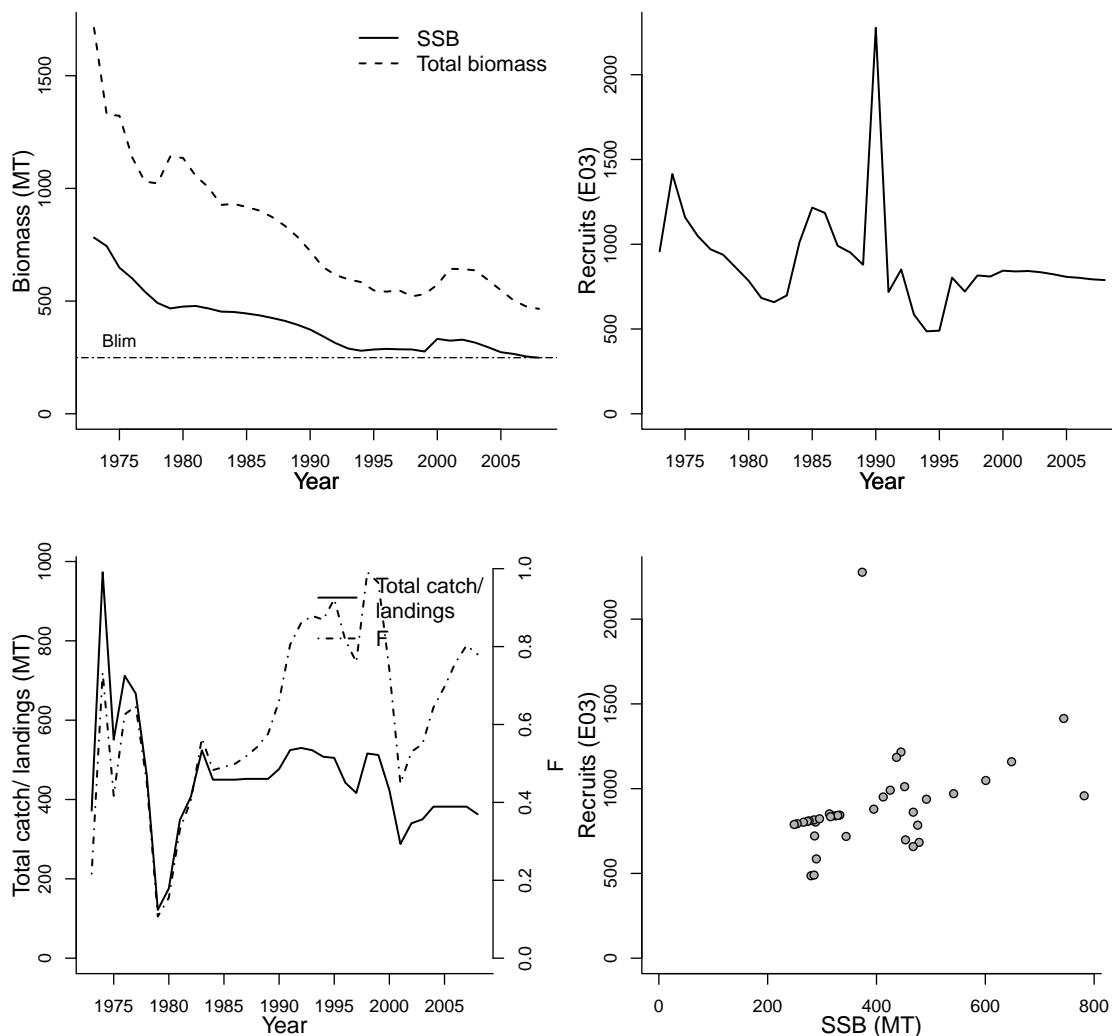
## General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1973-2008
Document	Johnston-SASouthRockLobster-2008.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
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		
30 - Agulhas Current			na			na		
Parameter	Value	Units	Reference points					
SSB-SEX-sex	1	sex	Parameter	Value	Units			
REC-AGE-yr	0	yr	Blim-MT (TB)	249	MT			
F-AGE-yr-yr	0+	yr-yr	SSB0-MT (SSB)	782	MT			
A50-yr	10	yr	R0-E00	958	E00			
M-1/yr	0.1	1/yr	BH-h-dimless	0.713	dimless			
TB-AGE-yr	0+	yr						
SSB-AGE-yr								
M								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1973	1973	1973	1973
Maximum year	2008	2008	2008	2008	2008
Time series minimum	248.77	486.42	0.107	465.44	122
Time series maximum	781.67	2276.74	0.991	1712.58	973
Units	MT	E03	1/yr	MT	MT



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

Assessment ID:NAFO-SC-AMPL3LNO-1955-2007-BAUM

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/7>

Area ID: multinational-NAFO-3LNO

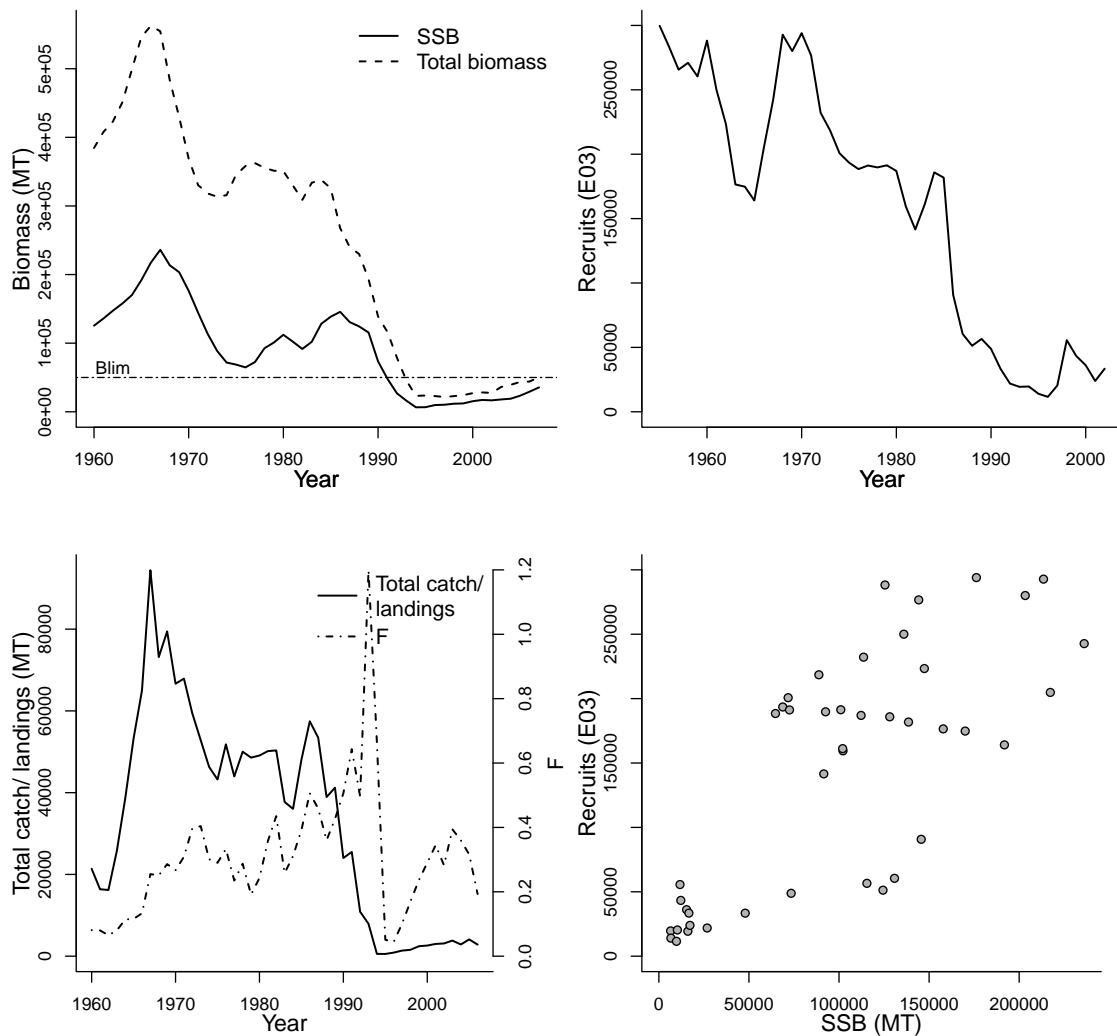
## General assessment details.

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	Reference points	
SSB-AGE-yr		yr		
SSB-SEX-sex	0	sex		
REC-AGE-yr	5	yr	Parameter	
F-AGE-yr-yr	9-14	yr-yr	Value	
TB-AGE-yr	5+	yr	MORATOR-yr-yr	1995-2007
M-1/T	0.2	1/T	Blim-MT (TB)	50000
M-1/T	0.53	1/T	F0.1-1/yr (F)	MT
M-1/T	0.2	1/T		0.19
M				1/yr
A50-yr				
L50-cm				

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



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

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

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/352>

Area ID: multinational-NAFO-3M

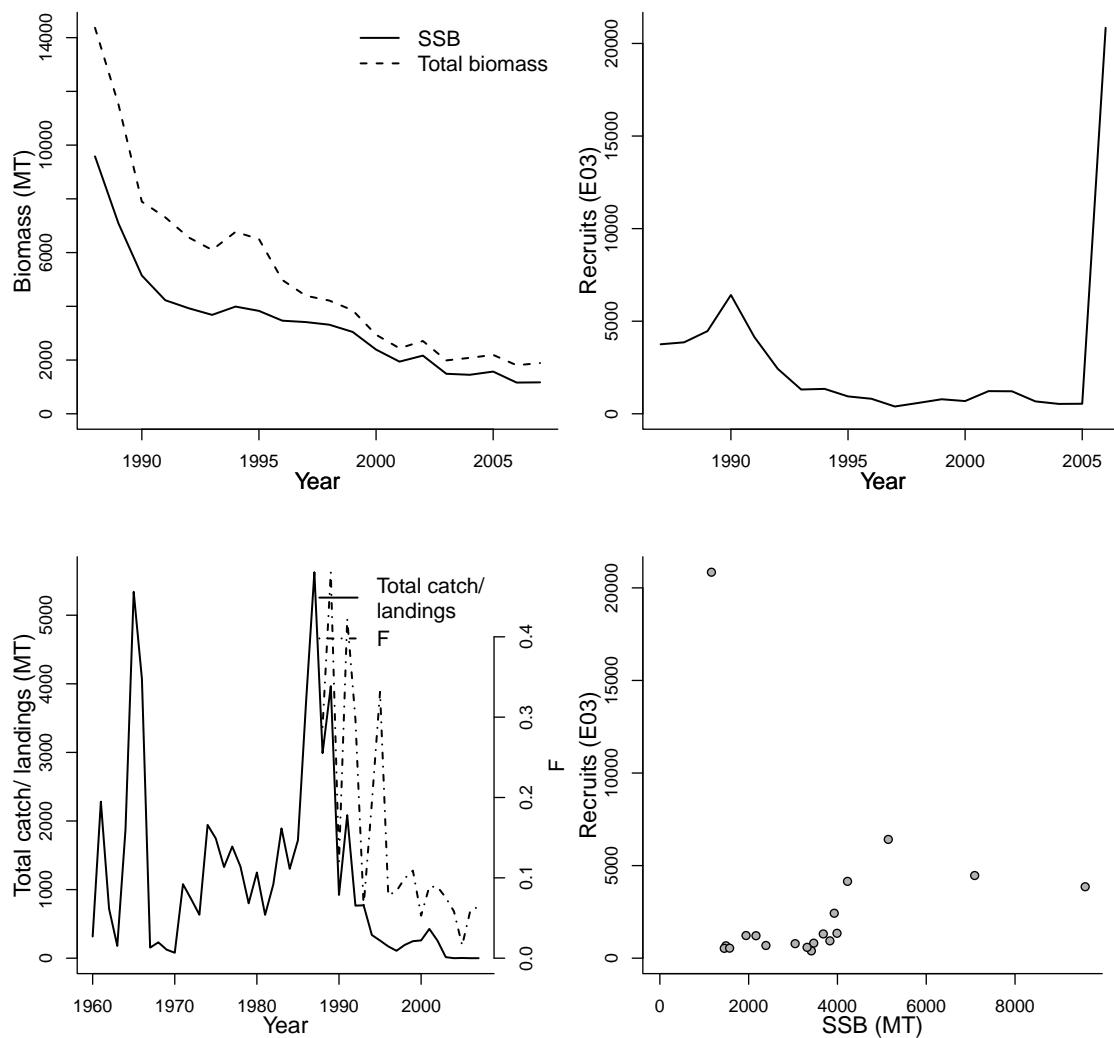
## General assessment details.

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	Reference points	
REC-AGE-yr	1	yr	Parameter	Value
F-AGE-yr-yr	3-13	yr-yr		Units
TB-AGE-yr	NA	yr	Fmax-1/yr (F)	0.346
M-1/T	0.2	1/T	MORATOR-yr-yr	1996-2008
M			F0.1-1/yr (F)	0.162
A50-yr				1/yr
L50-cm				

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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/350>

Area ID: multinational-NAFO-3M

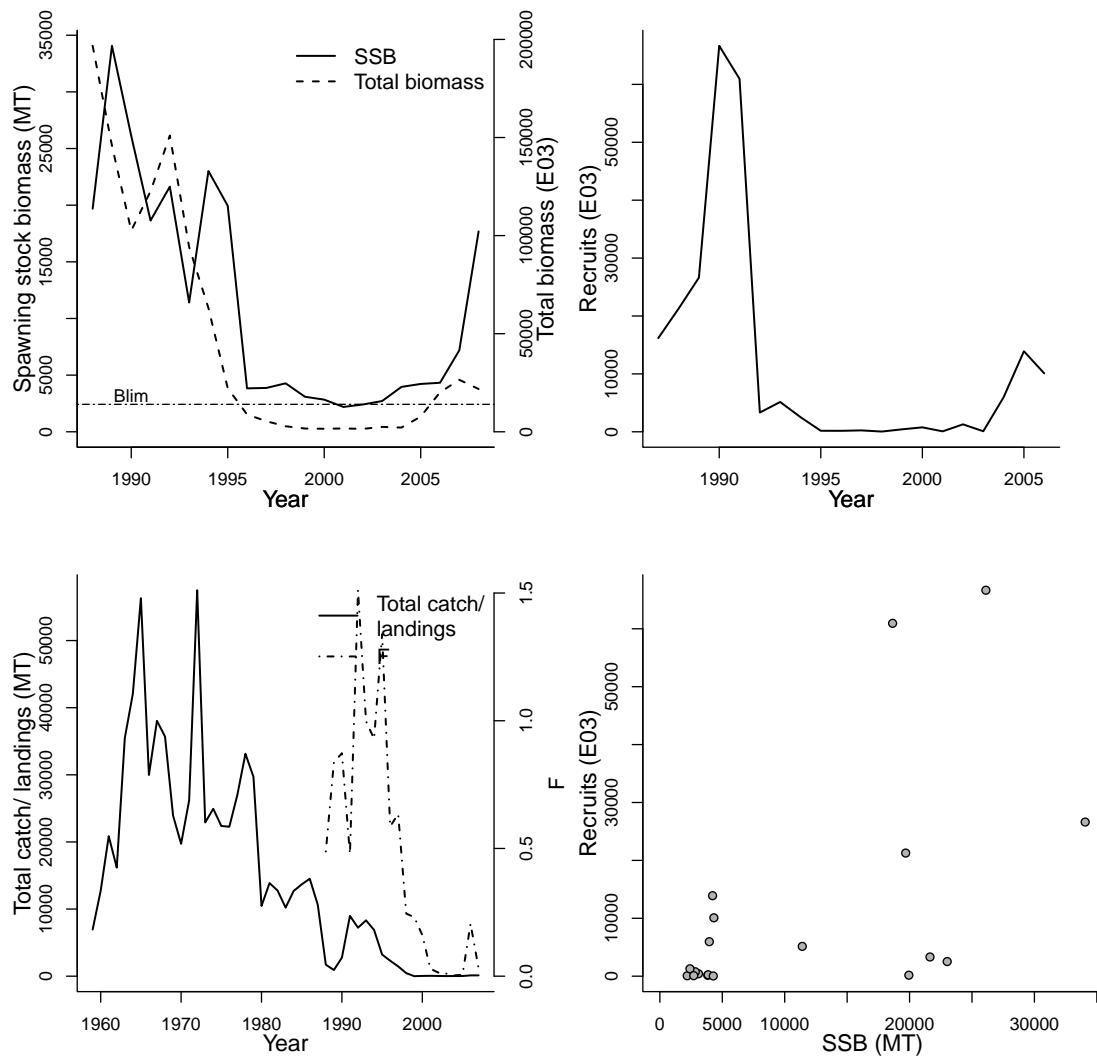
## General assessment details.

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	Reference points	
REC-AGE-yr	1	yr	Parameter	Value
F-AGE-yr-yr	3-5	yr-yr	MORATOR-yr-yr	1999-2008
TB-AGE-yr	2+	yr	Blim-MT (TB)	14000
M				yr-yr
A50-yr				MT
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1988	1987	1988	1988
Maximum year	2008	2006	2007	2008
Time series minimum	2191	39	0.003	1472
Time series maximum	34066	66664	1.511	196748
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.marinебiodiversity.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

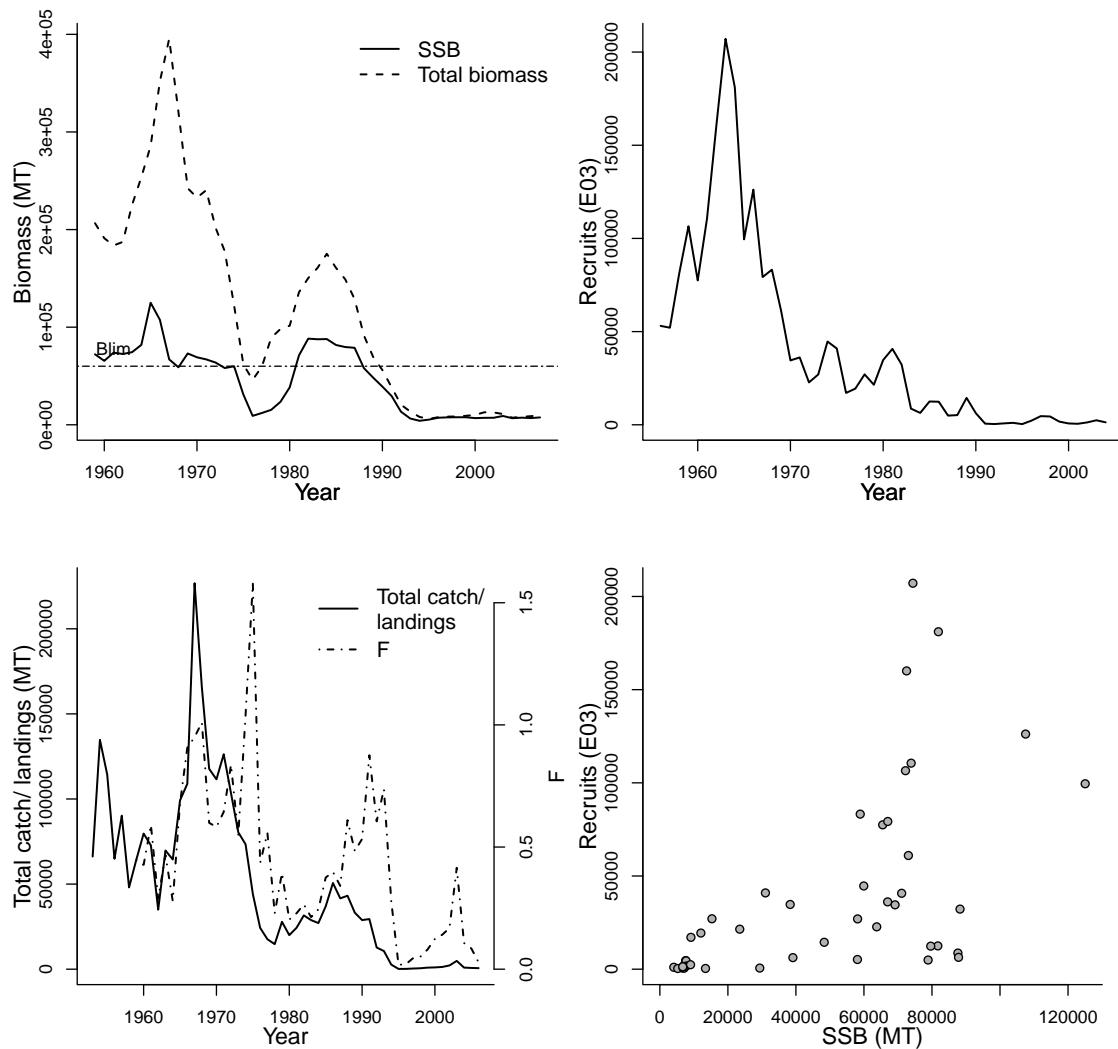
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME		secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf		na	na
<hr/>			
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			

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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
Minimum year	1959	1956	1959	1959
Maximum year	2007	2004	2006	2007
Time series minimum	4097	369	0.018	6066
Time series maximum	125043	207114	1.58	395437
Units	MT	E03	1/T	MT



# Assessment of NAFO 01ABCDEF greenland halibut (*Reinhardtius hippoglossoides*)

Assessment ID:NAFO-SC-GHAL01ABCDEF-1987-2006-PREFONTAINE  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/4>

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 scientific survey data
Publication year	2007
Timeseries span	1987-2006
Document	NAFO-GHAL01ABCDEF-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-02-13
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

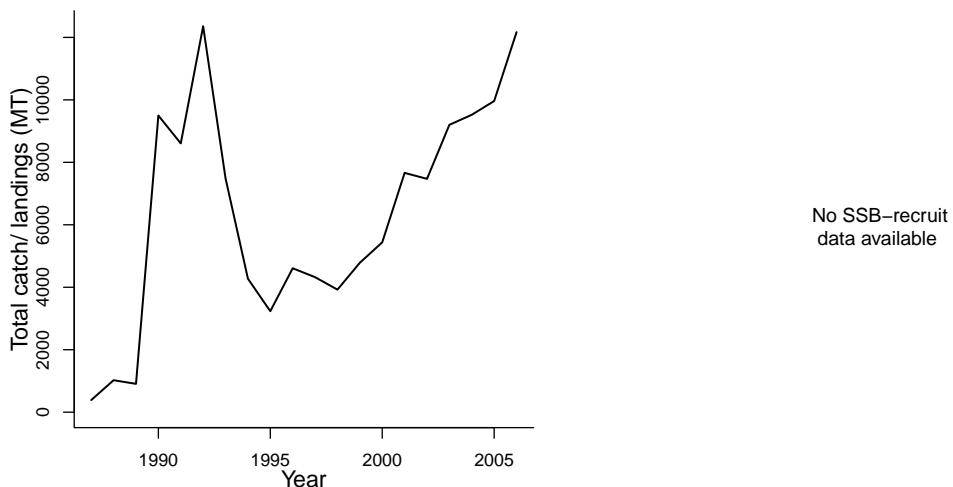
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME		secondary LME		tertiary LME
18 - West Greenland Shelf		na	na	na
Parameter	Value	Units		
REC-AGE-yr	1	yr		
SSB-AGE-yr				
SSB-SEX-sex			Reference points	
TB-AGE-yr			Parameter	Value
F-AGE-yr				Units
M			Fmsy-1/yr (F)	0.22
A50-yr				1/yr
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
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  
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/164>

Area ID: multinational-NAFO-23KLMNO

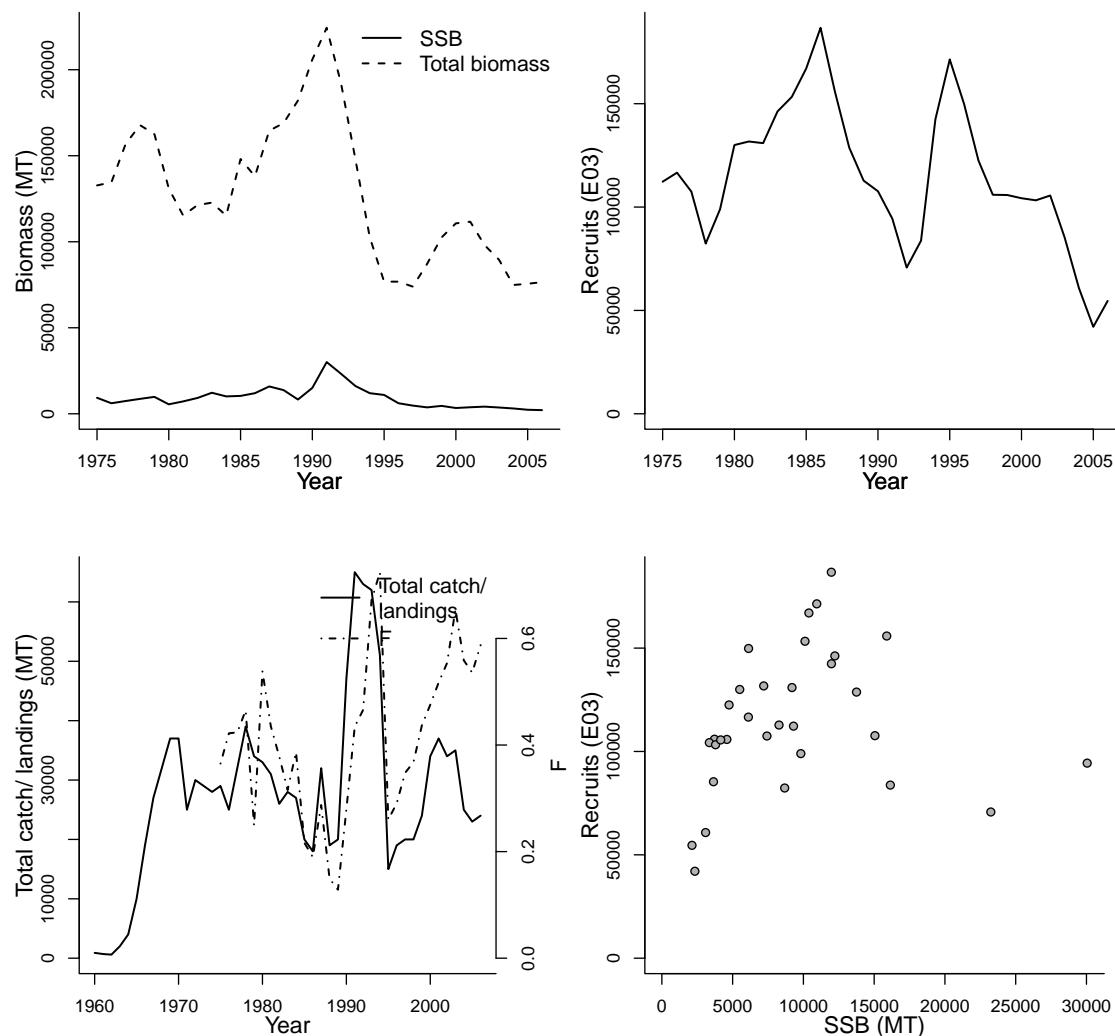
General assessment details.

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	2008-07-02
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
9 - Newfoundland-Labrador Shelf		na	na	
Parameter	Value	Units		
REC-AGE-yr	1	yr		
M-1/T	0.2	1/T		
SSB-AGE-yr			Reference points	
SSB-SEX-sex			Parameter	Value
TB-AGE-yr			F0.1-1/yr (F)	0.14
F-AGE-yr			Fmax-1/yr (F)	0.25
M				1/yr
A50-yr				
L50-cm				

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  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/172>

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	2008-07-29
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
18 - West Greenland Shelf	na	na
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

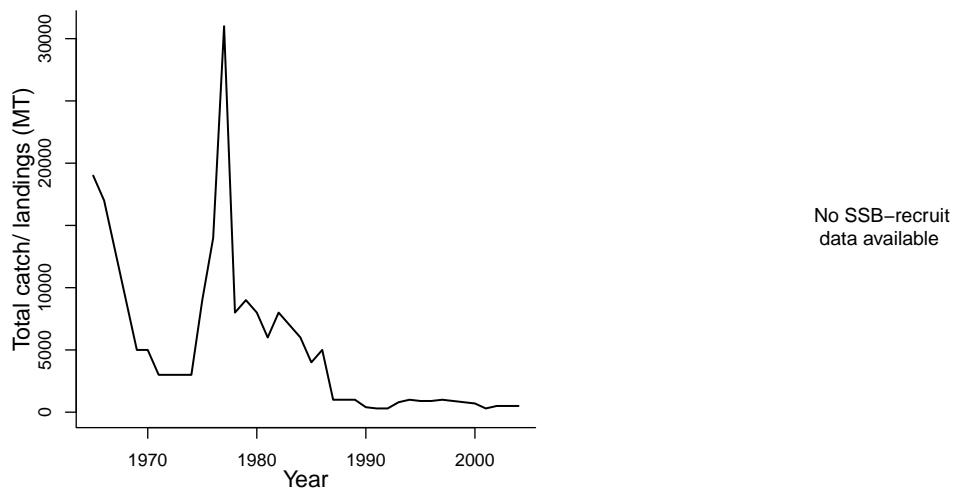
  

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year					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-1959-2008-BAUM

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/351>

Area ID: multinational-NAFO-3LN

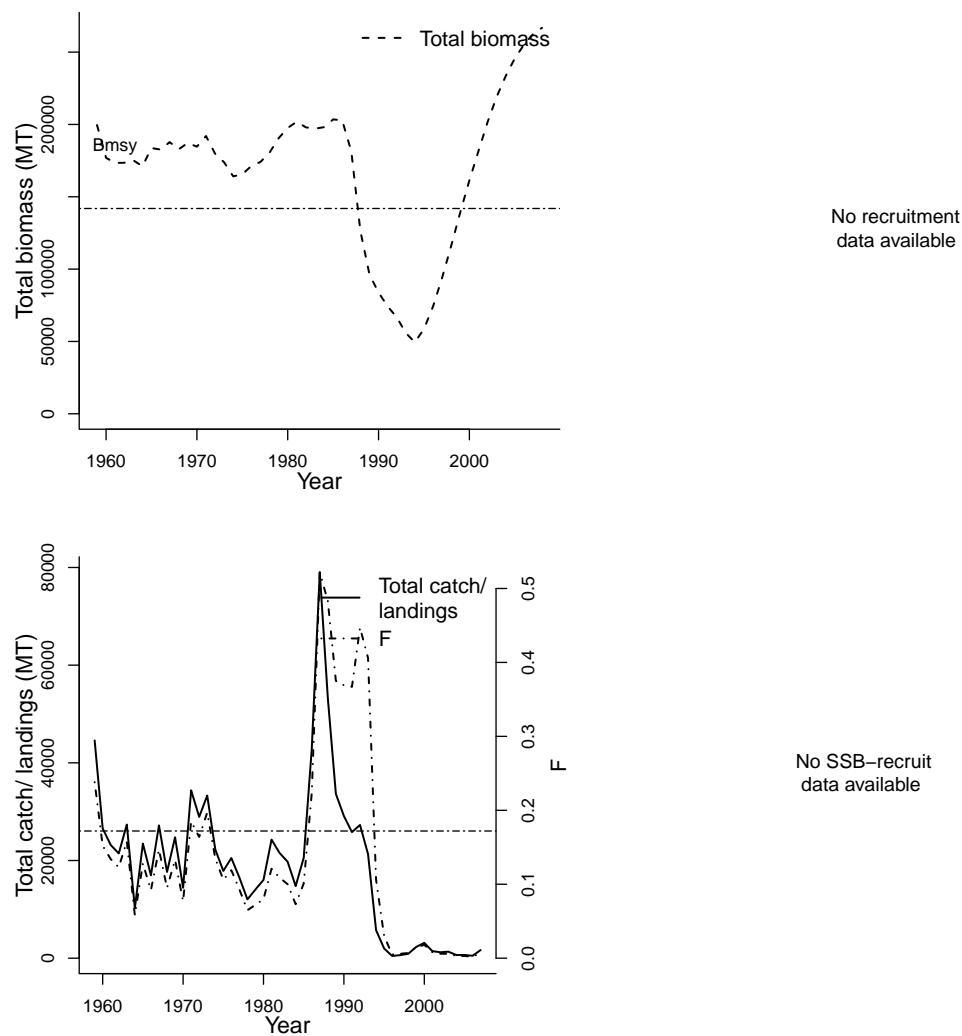
## General assessment details.

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	Reference points	
TB-AGE-yr	ALL AGES	yr	Parameter	Value
L50-cm	30-34	cm	Fmsy-1/T (F)	0.172
REC-AGE			MORATOR-yr-yr	1998-2008
SSB-AGE-yr			MSY-MT (TB)	24440
SSB-SEX-sex			Bmsy-MT (TB)	141900
F-AGE-yr			$TB_{2008}/B_{msy}$	1.880
M			$F_{2007}/F_{msy}$	0.041
A50-yr				

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



# Assessment of Flemish Cap redfish species (*Redfish species*)

Assessment ID:NAFO-SC-REDFISHSPP3M-1989-2006-PREFONTAINE  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/173>

Area ID: multinational-NAFO-3M

## General assessment details.

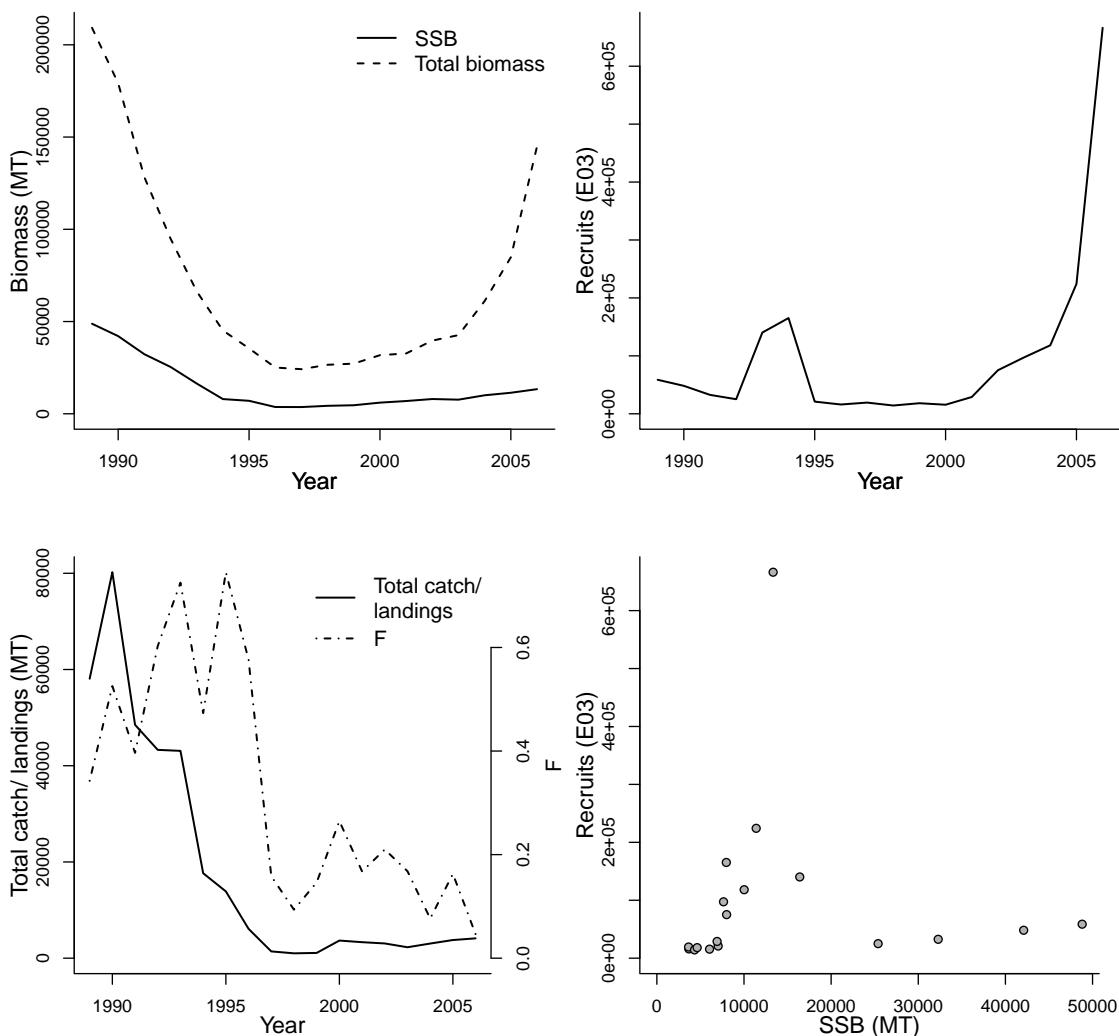
Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	vila de Melo, A. M.
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1989-2006
Document	NAFO-RED3M-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-28
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
9 - Newfoundland-Labrador Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	4	yr
F-AGE-yr-yr	6-16	yr-yr
TB-AGE-yr	4+	yr
A50-yr	15	yr
M-1/T	0.1	1/T
SSB-AGE-yr		
M		
L50-cm		

## 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-1960-2009-BAUM

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/353>

Area ID: multinational-NAFO-3LNO

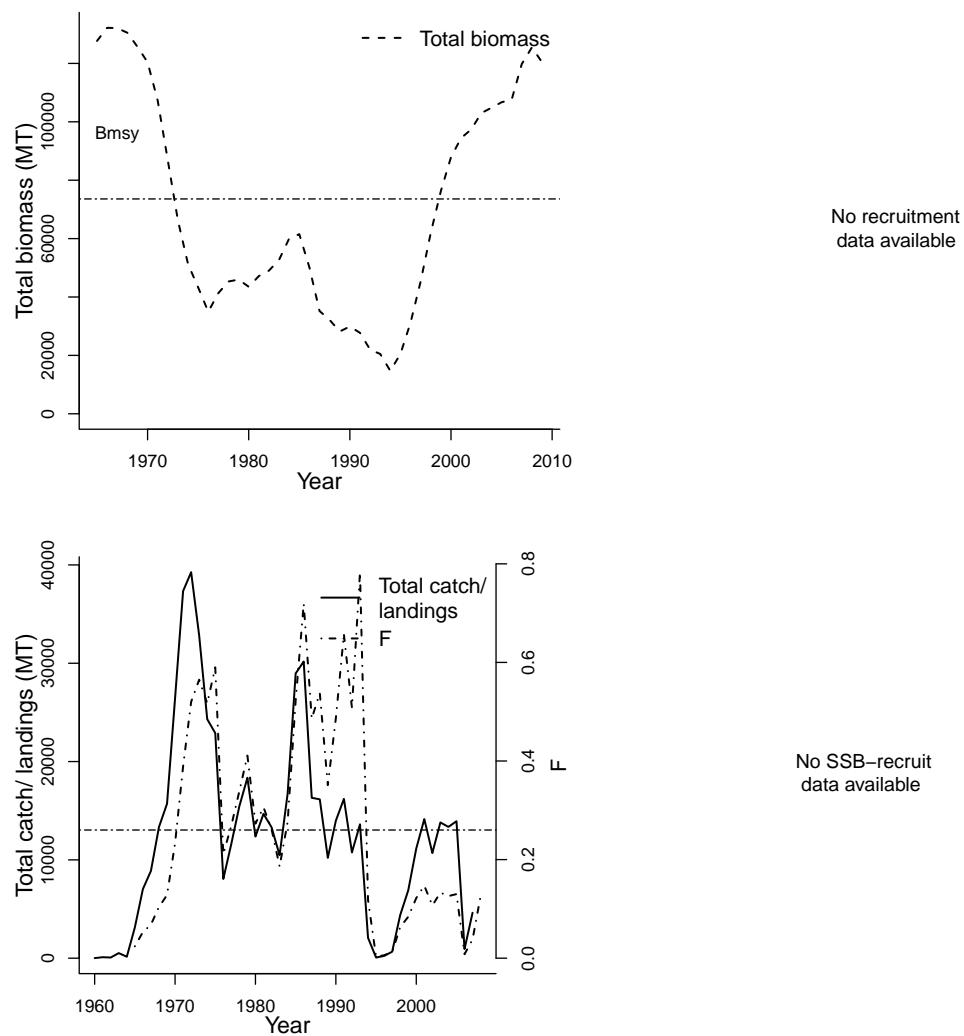
## General assessment details.

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	Reference points		
A50-yr	AVAILABLE	yr	Fmsy-1/yr (F)	0.26	1/yr
L50-cm	AVAILABLE	cm	MORATOR-yr-yr	1994-1997	yr-yr
REC-AGE			MSY-MT (TB)	18820	MT
SSB-AGE-yr			Bmsy-MT (TB)	73580	MT
SSB-SEX-sex			$TB_{2009}/B_{msy}$	1.636	
TB-AGE-yr			$F_{2008}/F_{msy}$	0.485	
F-AGE-yr					
M					

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



# Assessment of Gulf of Maine / Georges Bank acadian redfish (*Sebastes fasciatus*)

Assessment ID:NEFSC-ACADREDGOMGB-1913-2007-MILLER

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/317>

Area ID: USA-NMFS-5YZ

## General assessment details.

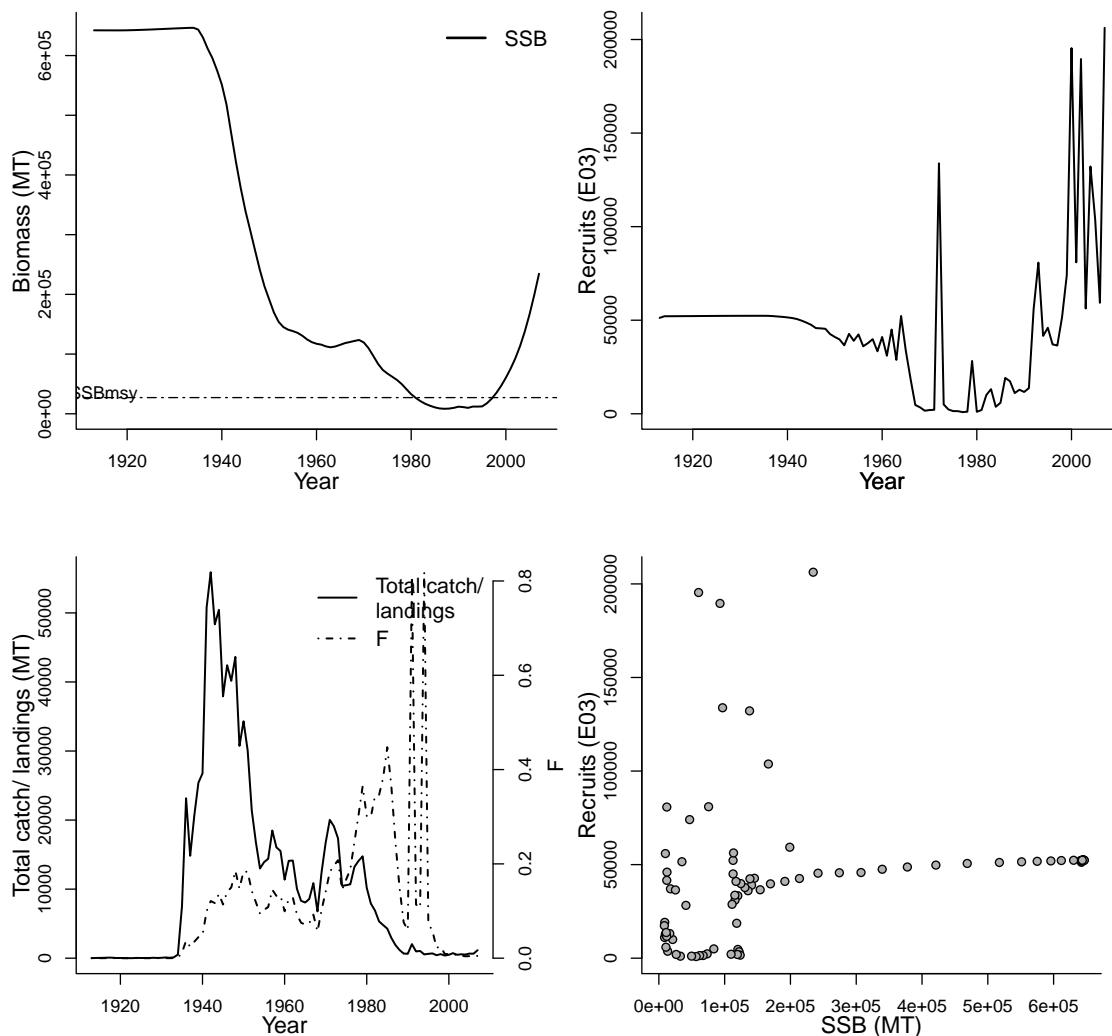
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Age Structured Assessment Program
Publication year	2008
Timeseries span	1913-2007
Document	AcadianRedfish2008.pdf (pdf in database)
Recorder	MILLER
Date entered	2009-04-16
Date last loaded	2009-11-08
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		
F-AGE-yr-yr	10+	yr-yr		
A50-yr	5	yr		
M-1/yr	0.05	1/yr		
			Reference points	
Parameter			Value	Units
REC-AGE			F40%-1/T	1/T
SSB-AGE-yr			SSB <sub>m</sub> sy-MT (SSB)	MT
SSB-SEX-sex			MSY-MT (TB)	MT
TB-AGE-yr			SSB <sub>2007</sub> /SSB <sub>m</sub> sy	8.657
M				
L50-cm				

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1913	1913	1913		1913
Maximum year	2007	2007	2007		2007
Time series minimum	8350.72	879.565	1.08e-05		7
Time series maximum	646477	206252	0.818588		55892
Units	MT	E03	1/yr		MT



# Assessment of Gulf of Maine / Georges Bank american plaice (*Hippoglossoides platessoides*)

Assessment ID:NEFSC-AMPL5YZ-1960-2008-OBRIEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/112>

Area ID: USA-NMFS-5YZ

## General assessment details.

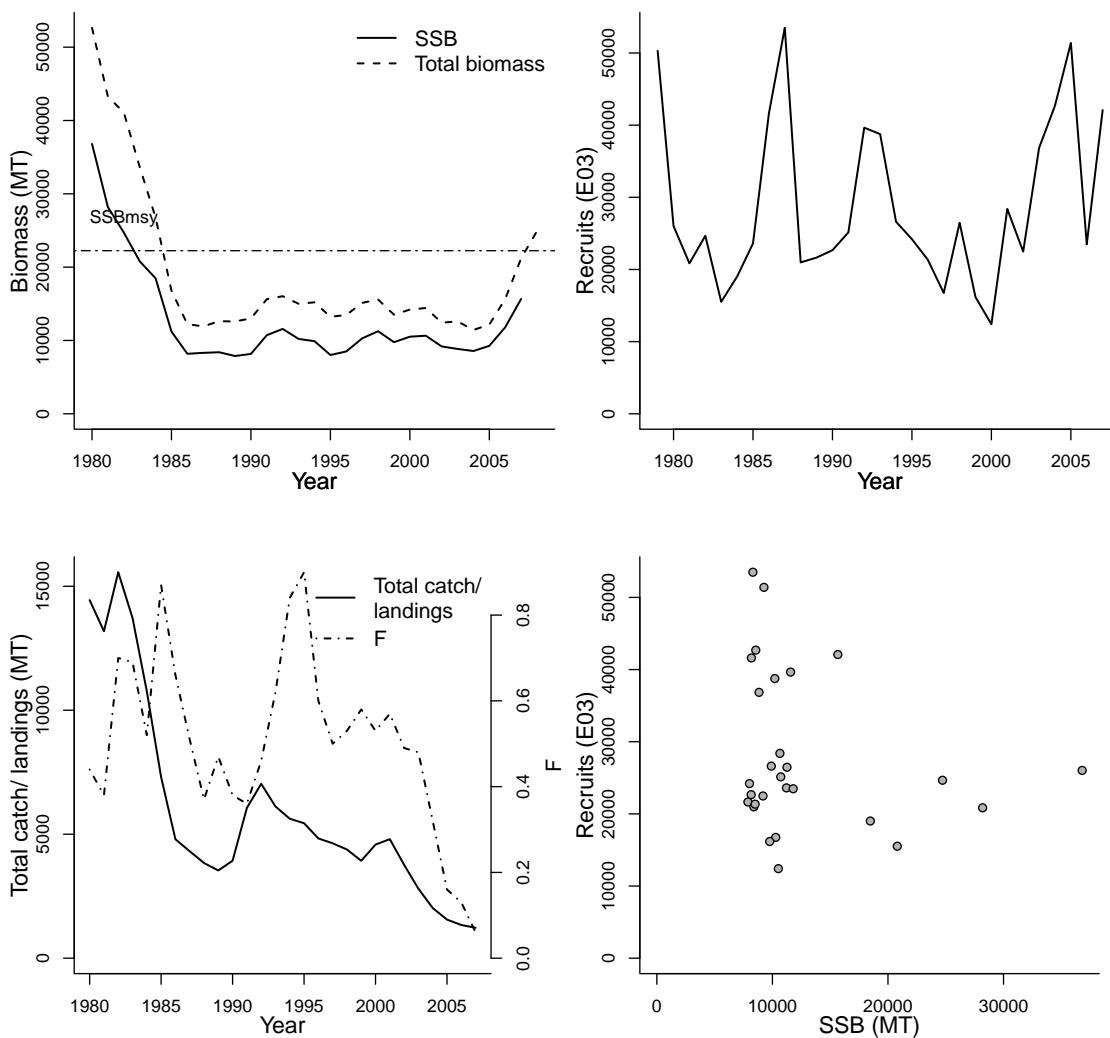
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2008
Timeseries span	1960-2008
Document	.pdf (pdf not in database)
Recorder	OBRIEN
Date entered	2008-12-12
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	Parameter	Reference points
TB-AGE-yr	1+	yr		Parameter
A50-yr	AVAILABLE	yr		Value
M-1/T	0.2	1/T		Units
SSB-AGE-yr	1+	yr	F40%-1/T	0.19
SSB-SEX-sex	NA	sex	SSB <sub>msy</sub> -MT (SSB)	22243
REC-AGE-yr	1	yr	MSY-MT (TB)	4059
F-AGE-yr-yr	6-9	yr-yr	SSB <sub>2007</sub> /SSB <sub>msy</sub>	0.704
M				
L50-cm				

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1980	1979	1980	1980	1980
Maximum year	2007	2007	2007	2008	2007
Time series minimum	7880.98	12409.45	0.06	11431.53	1226.17
Time series maximum	36806.95	53494.2	0.9	52640.22	15566.81
Units	MT	E03	1/T	MT	MT



# Assessment of Gulf of Maine / Georges Bank atlantic halibut (*Hippoglossus hippoglossus*)

Assessment ID:NEFSC-ATHAL5YZ-1800-2007-COL

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/274>

Area ID: USA-NMFS-5YZ

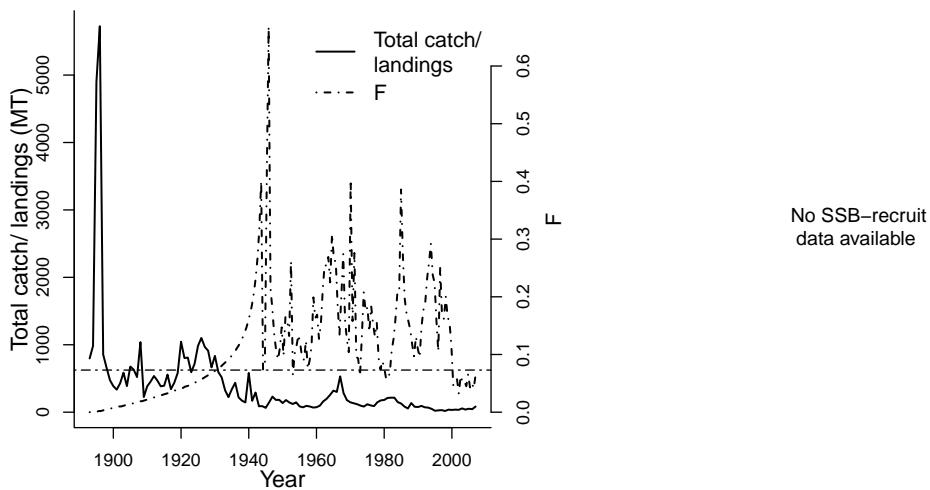
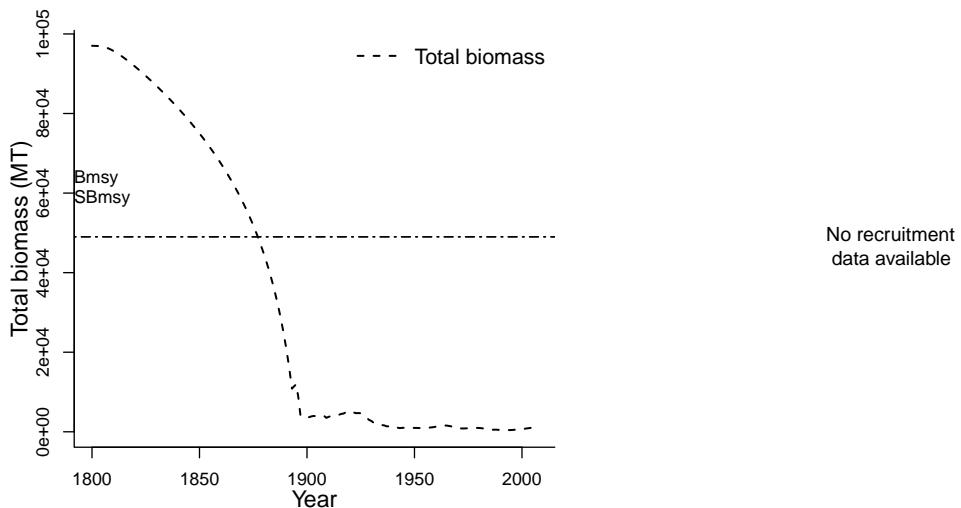
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Unknown
Publication year	2008
Timeseries span	1800-2007
Document	AtlanticHalibut5YZ2008.pdf (pdf in database)
Recorder	COL
Date entered	2009-04-15
Date last loaded	2009-10-01
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	Reference points		
Parameter	Value	Units	Parameter	Value	Units
A50-yr	7	yr	Bmsy-MT (TB)	49000	MT
L50-cm	103	cm	Bpa-MT (TB)	24000	MT
M-1/yr	0.15	1/yr	F0.1-1/yr (F)	0.073	1/yr
REC-AGE			Fmax-1/yr (F)	0.114	1/yr
SSB-AGE-yr			Fmsy-1/yr (F)	0.073	1/yr
SSB-SEX-sex			SPRF0-E01 (SPR)	109	E01
TB-AGE-yr			F40%-1/T	0.064	1/T
F-AGE-yr			SSBmsy-MT (SSB)	49000	MT
M			MSY-MT (TB)	3500	MT
			Frebuild-1/T (F)	0.044	1/T
			$TB_{2007}/B_{msy}$	0.026	
			$F_{2007}/F_{msy}$	0.890	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1800	1800	1893
Maximum year			2007	2007	2007
Time series minimum	0		426.61	18.33	
Time series maximum	0.669		97018.46	5724.72	
Units	1/T		MT	MT	



# Assessment of Atlantic Coast bluefish

## (*Pomatomus saltatrix*)

Assessment ID:NEFSC-BLUEFISHATLC-1981-2007-SHEPHERD

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/303>

Area ID: USA-NMFS-ATLC

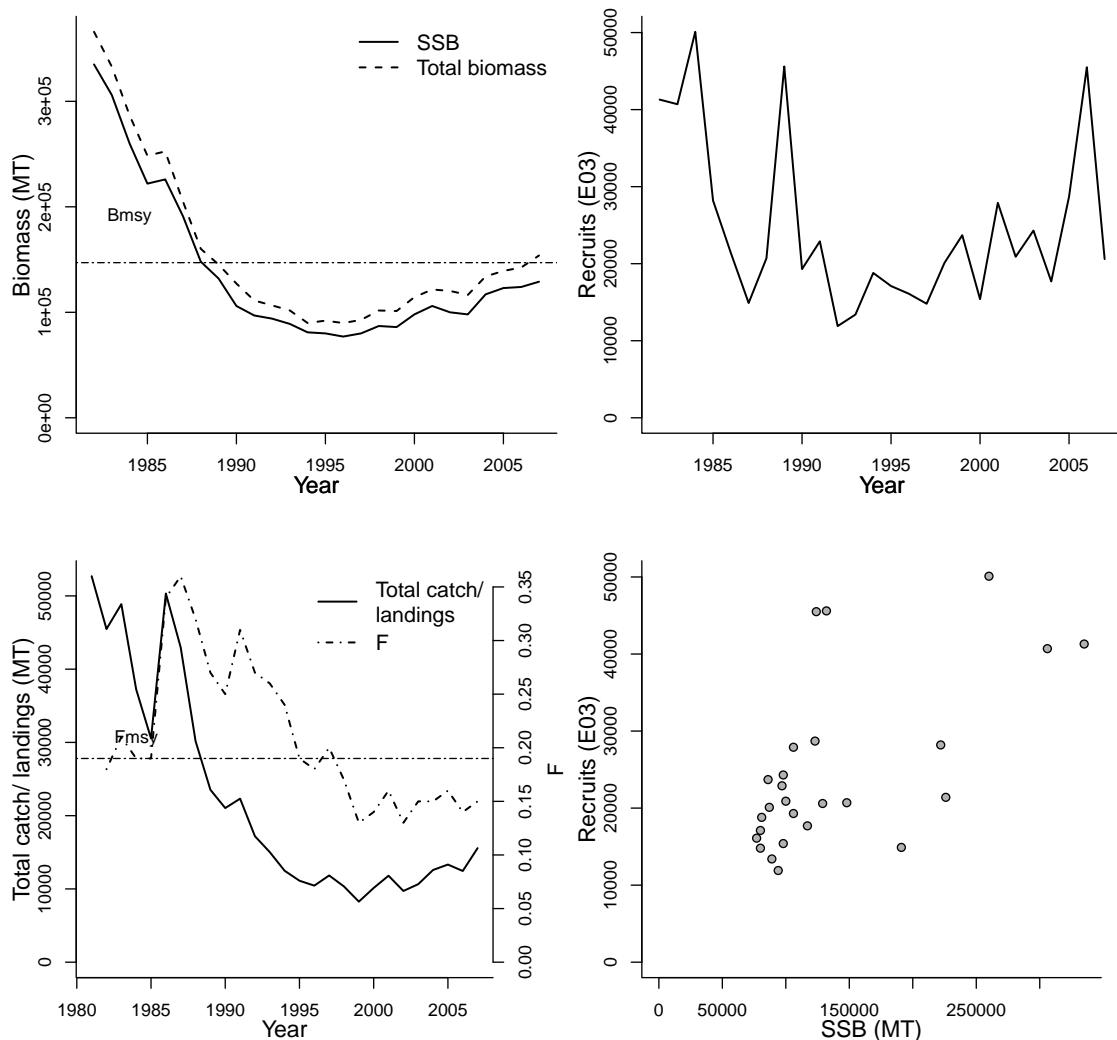
General assessment details.

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	2006
Timeseries span	1981-2007
Document	final-2005-SAW-41-assessment.pdf (pdf in database)
Recorder	SHEPHERD
Date entered	2009-04-30
Date last loaded	2011-03-02
QA/QC complete	YES
Date approved	2011-03-02

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

primary LME			secondary LME	tertiary LME	
7 - Northeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	2+	yr	Bmsy-MT (TB)	147052	MT
SSB-SEX-sex	0	sex	Fmsy-1/T (F)	0.19	1/T
REC-AGE-yr	0	yr	MSY-MT (TB)	15565	MT
F-AGE-yr-yr	01-Jan	yr-yr	$TB_{2007}/B_{msy}$	1.046	
TB-AGE-yr	0+	yr	$F_{2007}/F_{msy}$	0.789	
A50-yr	2	yr			
M-1/T	0.2	1/T			
M					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1982	1982	1982	1982
Maximum year	2007	2007	2007	2007
Time series minimum	77000	11900	0.13	89812
Time series maximum	335000	50100	0.36	365924
Units	MT	E03	1/T	MT



# Assessment of Mid-Atlantic Coast black sea bass (*Centropristes striata*)

Assessment ID:NEFSC-BSBASSMATLC-1968-2007-SHEPHERD  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/292>

Area ID: USA-NMFS-MATLC

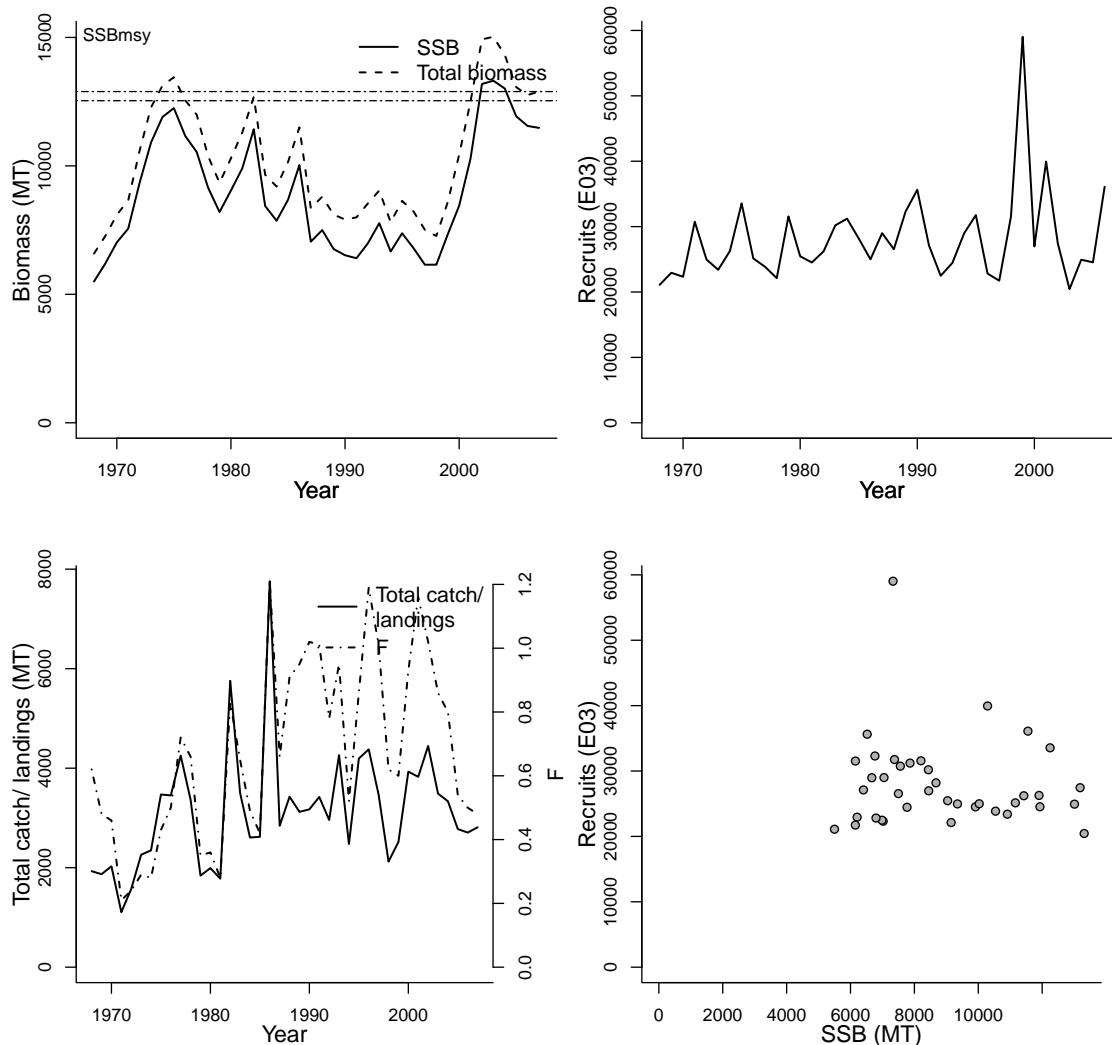
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	,Northeast Data Poor Working Group
Assessment method	A statistical catch-at-length model
Publication year	2009
Timeseries span	1968-2007
Document	DataPoorReviewPanelReportFinal-1-20-09.pdf (pdf in database)
Recorder	SHEPHERD
Date entered	2009-04-29
Date last loaded	2010-07-27
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	Reference points		
SSB-SEX-sex	0	sex	Parameter	Value	Units
REC-AGE-yr	1	yr	Bmsy-MT (TB)	12892.30	MT
F-AGE-yr-yr	0	yr-yr	F0.1-1/yr (F)	0.368	1/yr
L50-cm	21 cm	cm	F40%-1/T	0.419	1/T
M-1/T	0.4	1/T	SSBmsy-MT (SSB)	12537	MT
SSB-AGE-yr			MSY-MT (TB)	3903	MT
TB-AGE-yr			$TB_{2007}/B_{msy}$	1.000	
M			$SSB_{2007}/SSB_{msy}$	0.916	
A50-yr					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1968	1968	1968	1968
Maximum year	2007	2006	2007	2007
Time series minimum	5498.58	20444.6	0.21	6586.79
Time series maximum	13315.11	59027.7	1.21	15024.1
Units	MT	E03	1/T	MT



# Assessment of Gulf of Maine / Georges Bank-Southern New England barndoor skate

*(Dipturus laevis)*

Assessment ID:NEFSC-BSKAT5YZSNE-1963-2005-SOSEBEE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/428>

Area ID: USA-NMFS-5YZSNE

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Temporal indices derived from scientific survey data
Publication year	2007
Timeseries span	1963-2005
Document	skates2007.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-21
Date last loaded	2009-12-11
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
7 - Northeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

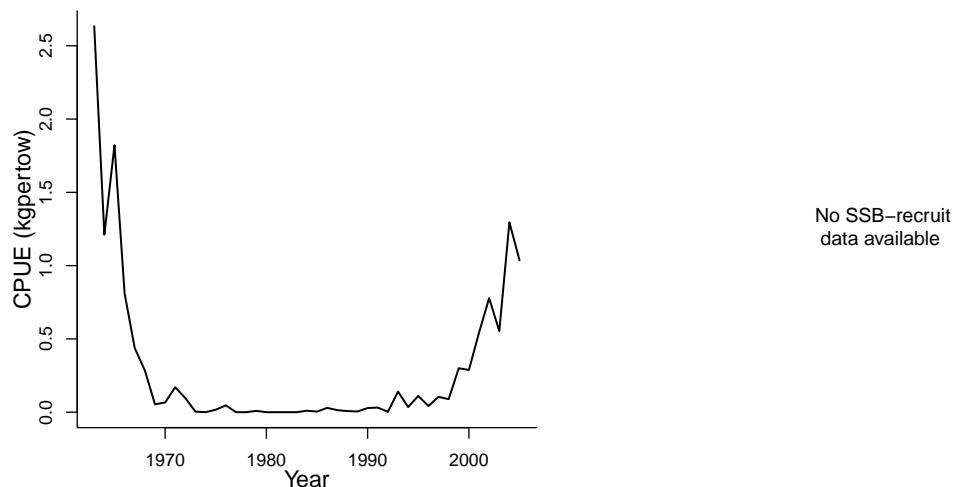
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Reference points	Parameter	Value	Units

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



# Assessment of Gulf of Maine / Cape Hatteras atlantic butterfish (*Peprilus triacanthus*)

Assessment ID:NEFSC-BUTTERGOMCHATT-1965-2005-OVERHOLTZ  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/300>

Area ID: USA-NMFS-5YCHATT

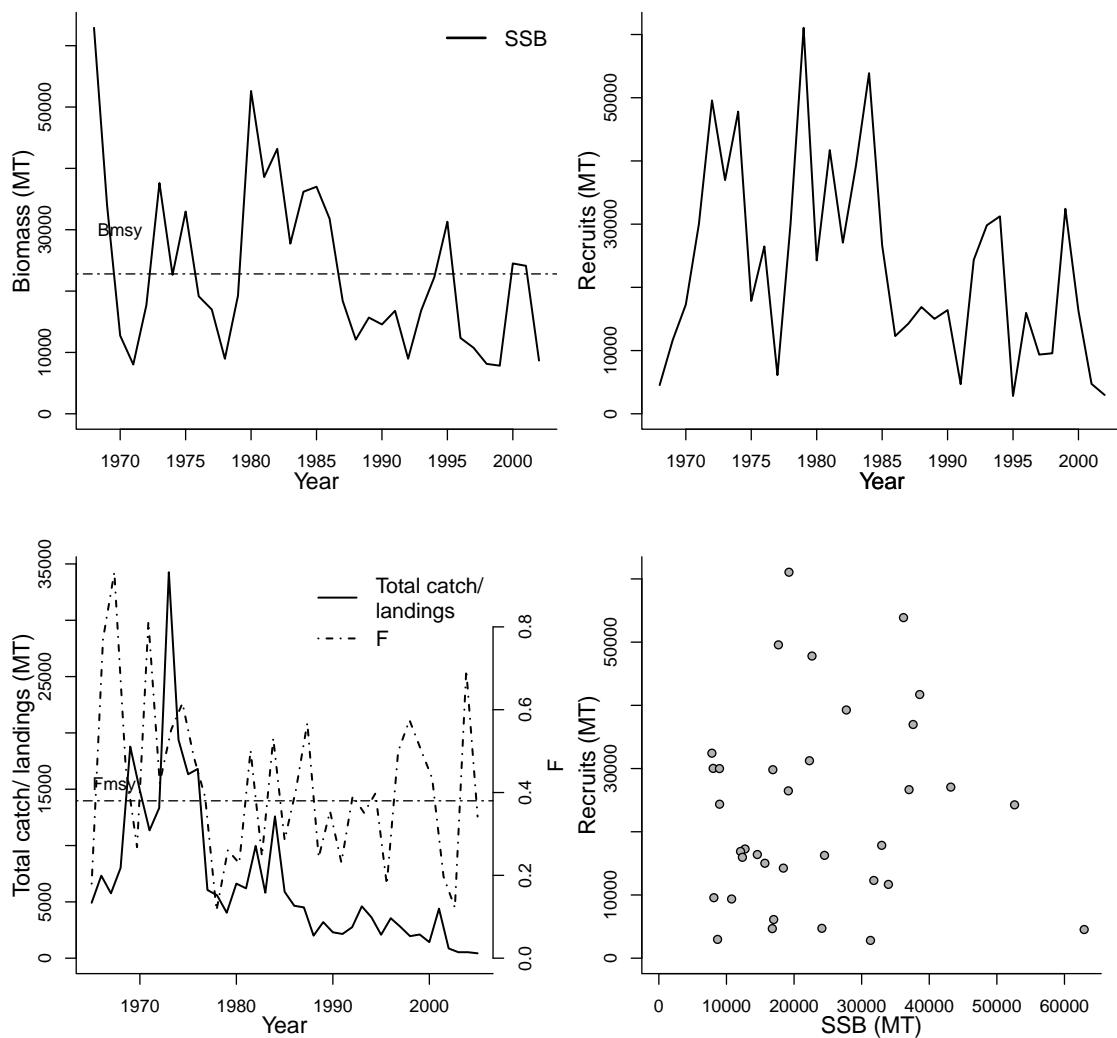
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Unknown
Publication year	2004
Timeseries span	1965-2005
Document	butterfish-assessment-2004.pdf (pdf in database)
Recorder	OVERHOLTZ
Date entered	2009-04-17
Date last loaded	2009-11-06
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
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	1+	yr
REC-AGE-yr	0	yr
L50-cm	11.7	cm
M-1/yr	0.8	1/yr
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
<hr/>		
Reference points		
Parameter	Value	Units
Bmsy-MT (TB)	22798	MT
F0.1-1/yr (F)	1.6	1/yr
Fmsy-1/T (F)	0.38	1/T
MSY-MT (TB)	12.175	MT
$F_{2002}/F_{msy}$	0.900	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1968	1968	1968	1965
Maximum year	2002	2002	2002	2005
Time series minimum	7843.34	2812.32	0.115	432
Time series maximum	62914.7	61062	0.932	34266
Units	MT	MT	1/T	MT



# 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.

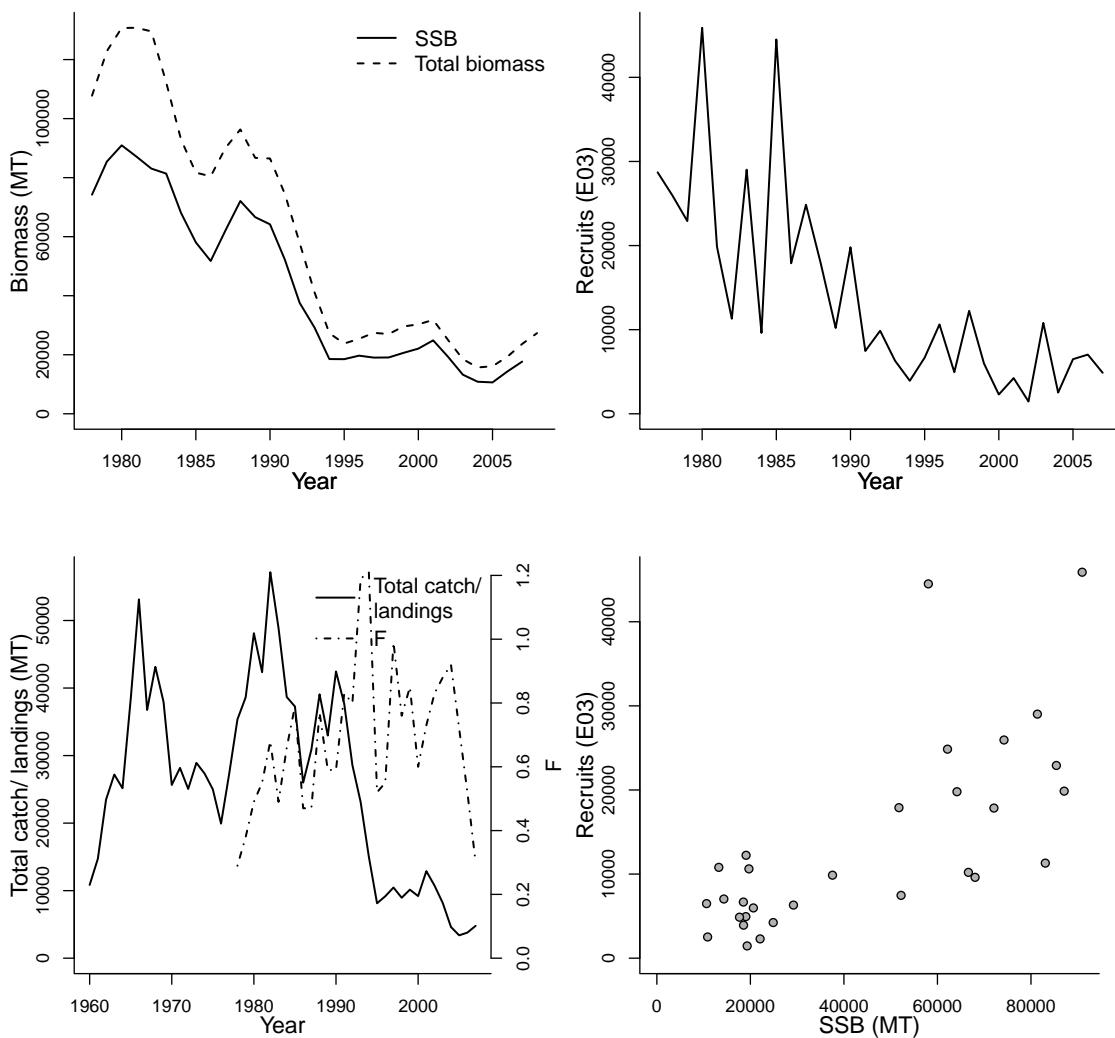
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit 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	Reference points		
SSB-AGE-yr	1+	yr	Parameter	Value	Units
SSB-SEX-sex	NA	sex	F40%-1/T	0.25	1/T
REC-AGE-yr	1	yr	SSB <sub>m</sub> sy-MT (SSB)	148084	MT
F-AGE-yr-yr	5-8	yr-yr	MSY-MT (TB)	31159	MT
TB-AGE-yr	1+	yr	<i>SSB</i> <sub>2007</sub> / <i>SSB</i> <sub>m</sub> <sub>s</sub> <sub>y</sub>	0.119	
A50-yr	AVAILABLE	yr			
M-1/T	0.2	1/T			
M					
L50-cm					

## 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

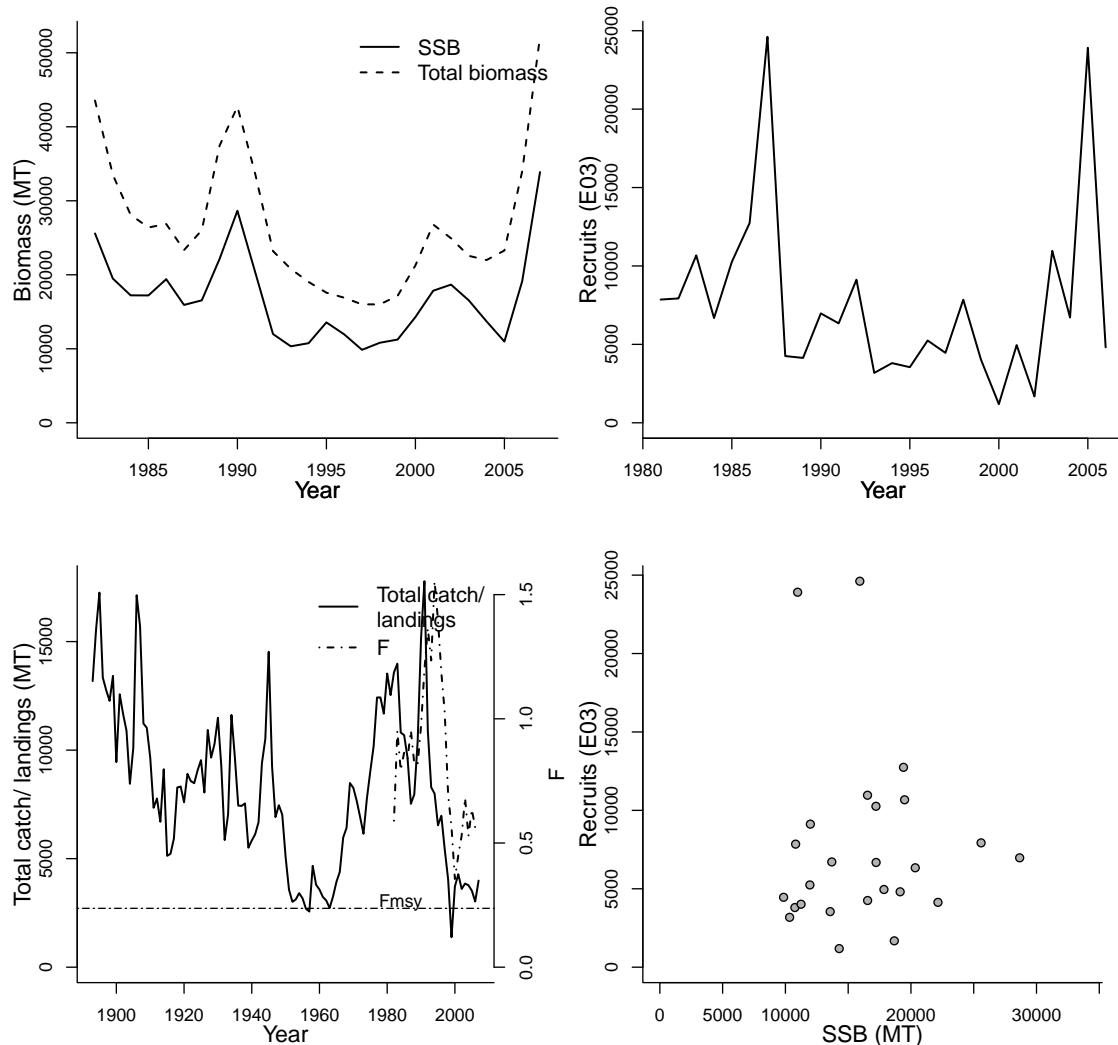
## General assessment details.

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	Reference points					
SSB-SEX-sex	NA	sex	Parameter	Value	Units			
REC-AGE-yr	1	yr	Bmsy-MT (TB)	82830	MT			
F-AGE-yr-yr	5-7	yr-yr	Fmsy-1/T (F)	0.237	1/T			
A50-yr	AVAILABLE	yr	MSY-MT (TB)	16600	MT			
M-1/T	0.2	1/T	Frebuild-1/T (F)	0.281	1/T			
SSB-AGE-yr			$TB_{2007}/B_{msy}$	0.630				
TB-AGE-yr			$F_{2007}/F_{msy}$	2.399				
M								
L50-cm								

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



# Assessment of Mid-Atlantic Coast clearnose skate (*Raja eglanteria*)

Assessment ID:NEFSC-CSKATMATLC-1975-2005-SOSEBEE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/429>

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	Temporal indices derived from scientific survey data
Publication year	2007
Timeseries span	1975-2005
Document	skates2007.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-21
Date last loaded	2009-12-11
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
7 - Northeast U.S. Continental Shelf	6 - Southeast U.S. Continental Shelf	na
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

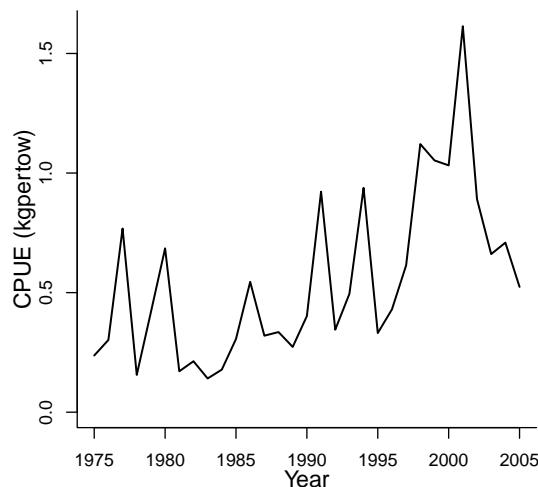
Reference points	Parameter	Value	Units

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

No biomass data available

No recruitment data available

No SSB-recruit data available



# 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

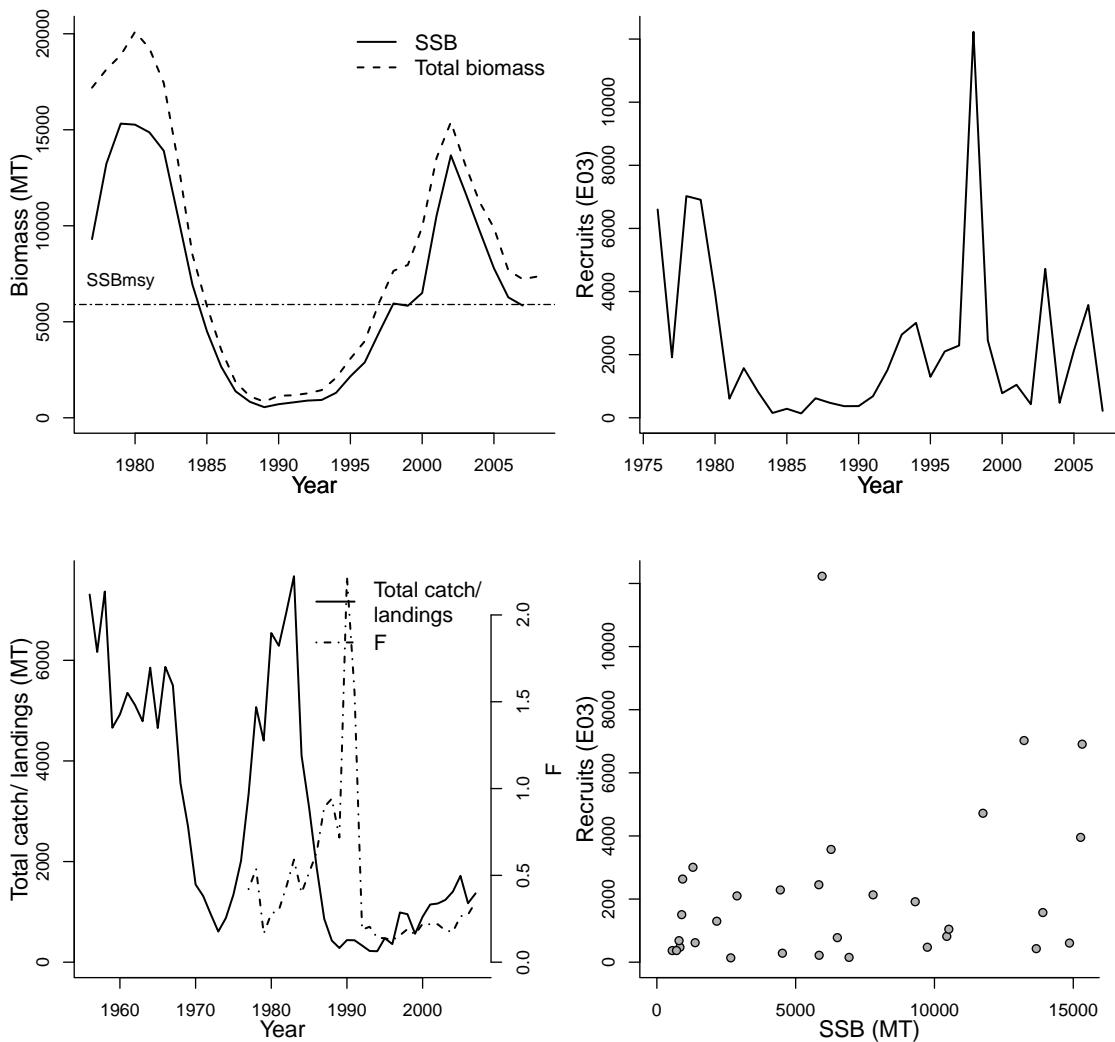
### General assessment details.

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- <i>Melanogrammus aeglefinus</i> -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	Reference points
L50-cm	AVAILABLE	cm	Parameter
M-1/T	0.2	1/T	Value
SSB-AGE-yr			Units
TB-AGE-yr			
M			

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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/82>

Area ID: USA-NMFS-5Z

### General assessment details.

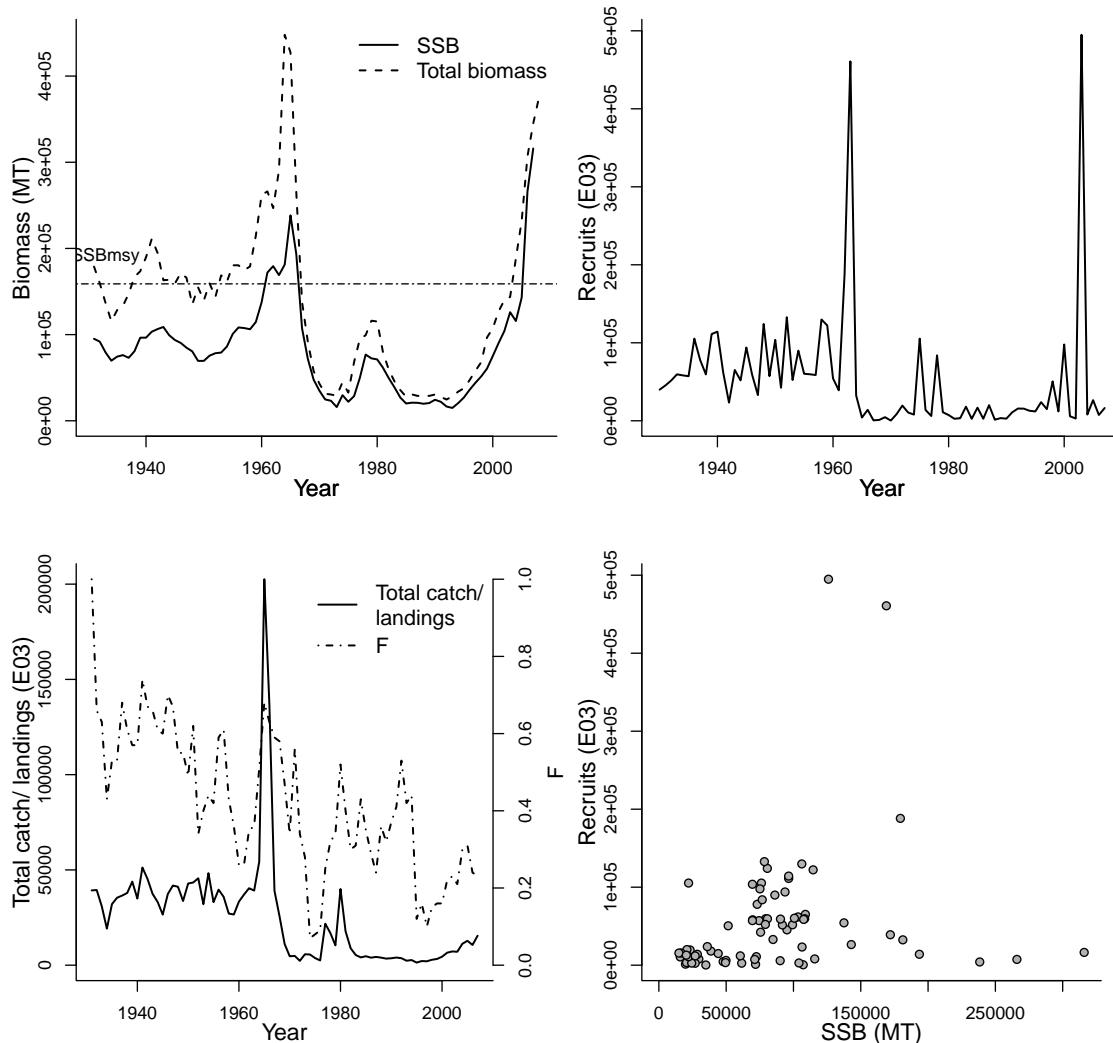
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	VPA/ADPAT version 2.3.2 NOAA Fisheries
Publication year	2008
Timeseries span	1930-2008
Document	NMFS-5Z-Melanogrammusaeglefinus-2008.pdf (pdf not 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	F40%-1/T	0.35 1/T
L50-cm	AVAILABLE	cm	SSB <sub>m</sub> sy-MT (SSB)	158873 MT
M-1/T	0.2	1/T	MSY-MT (TB)	32746 MT
SSB-AGE-yr			SSB <sub>2007</sub> /SSB <sub>m</sub> sy	1.989
TB-AGE-yr				
M				

## 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 Northwestern Atlantic Coast herring (*Clupea harengus*)

Assessment ID:NEFSC-HERRNWATLC-1960-2005-OVERHOLTZ  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/295>

Area ID: USA-NMFS-NWATLC

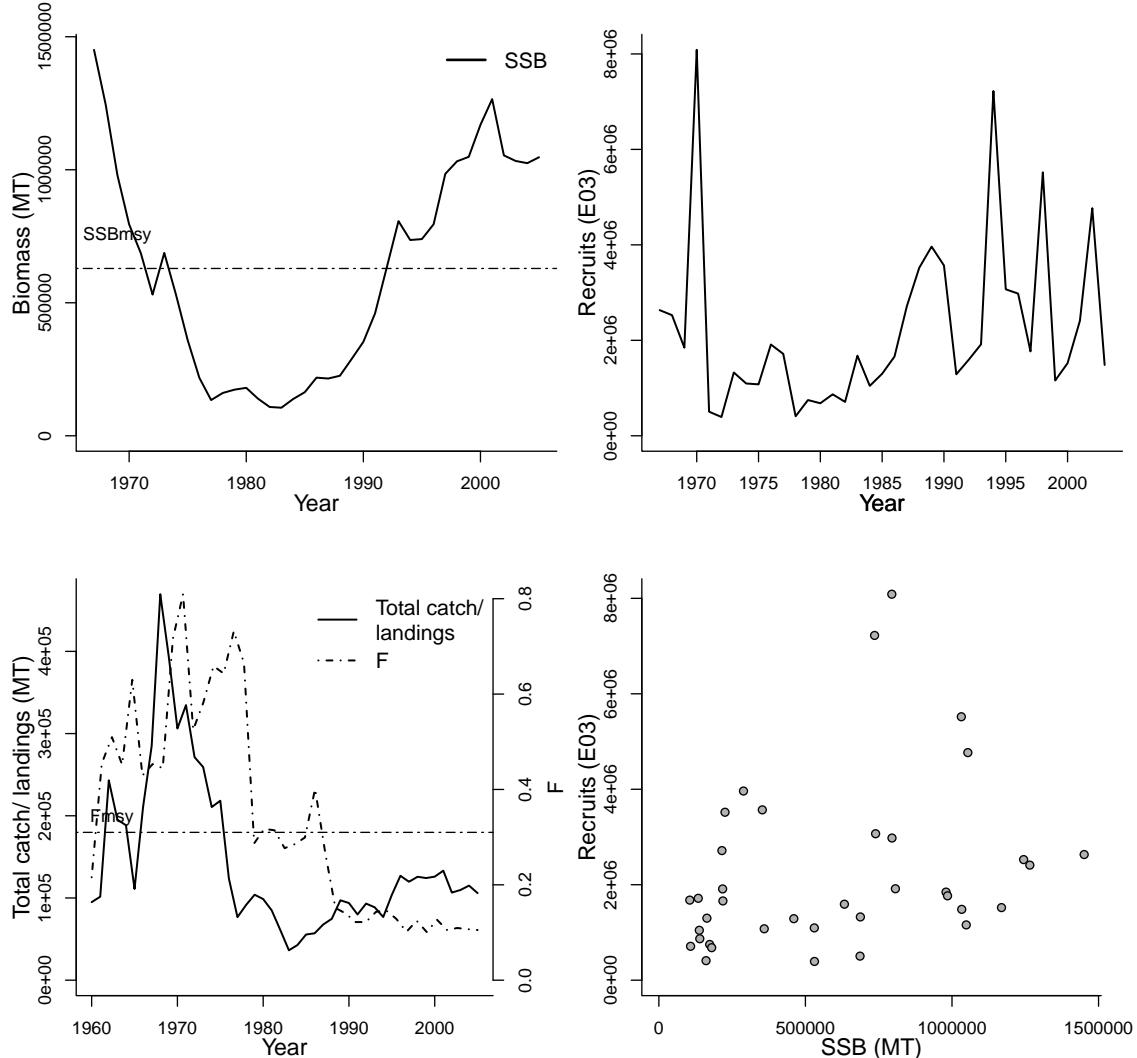
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Anonymous
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2006
Timeseries span	1960-2005
Document	Herring2006.pdf (pdf in database)
Recorder	OVERHOLTZ
Date entered	2009-04-29
Date last loaded	2010-07-28
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	Reference points		
SSB-AGE-yr	3+	yr	SSBmsy-MT (SSB)	629000	MT
SSB-SEX-sex	0	sex	F0.1-1/yr (F)	0.21	1/yr
REC-AGE-yr	2	yr	Fmsy-1/yr (F)	0.31	1/yr
A50-yr	2.95	yr	F40%-1/T	0.2	1/T
L50-cm	25.35	cm	MSY-MT (TB)	194000	MT
M-1/T	0.2	1/T	$F_{2005}/F_{msy}$	0.339	
TB-AGE-yr			$SSB_{2005}/SSB_{msy}$	1.665	
F-AGE-yr					
M					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1967	1967	1967	1960
Maximum year	2005	2003	2005	2005
Time series minimum	105470	393002	0.10082	36358
Time series maximum	1450950	8086560	0.809456	469535
Units	MT	E03	1/T	MT



# Assessment of Northwestern Atlantic Coast northern shortfin squid (*Illex illecebrosus*)

Assessment ID:NEFSC-ILLEXNWATLC-1967-2005-HENDRICKSON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/332>

Area ID: USA-NMFS-NWATLC

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Hendrickson and Showell
Assessment method	Age-aggregated surplus production model
Publication year	2006
Timeseries span	1967-2005
Document	scr06-46.pdf (pdf in database)
Recorder	HENDRICKSON
Date entered	2009-04-20
Date last loaded	2009-05-26
QA/QC complete	NO
Date approved	

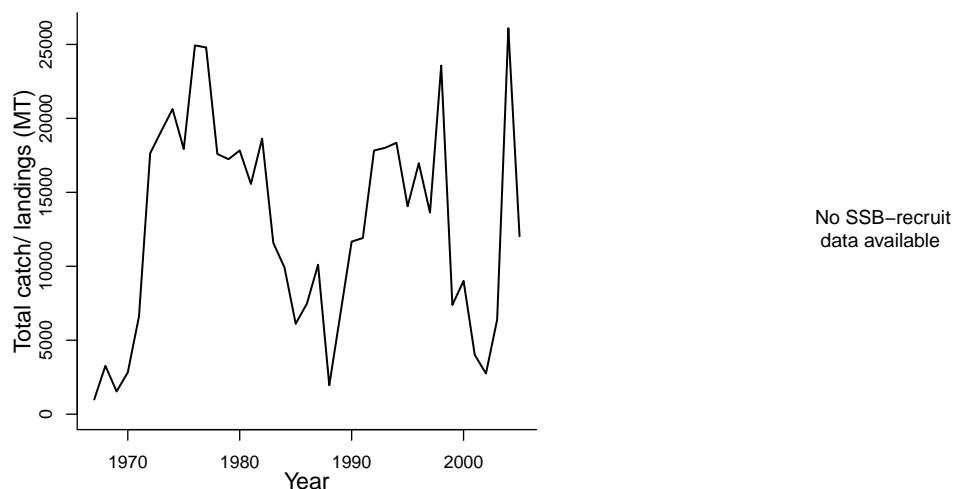
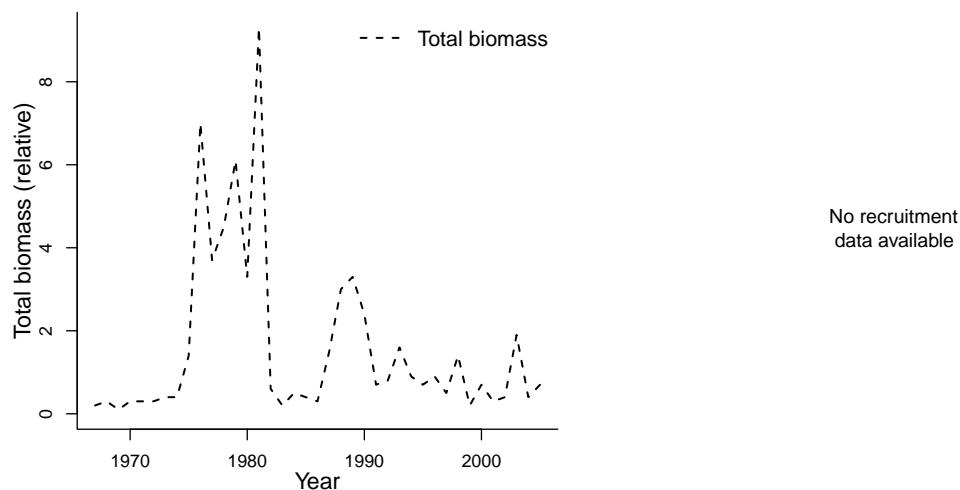
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	8 - Scotian Shelf	9 - Newfoundland-Labrador Shelf
<hr/>		
Parameter	Value	Units
REC-AGE		
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
Minimum year				1967
Maximum year				2005
Time series minimum				0.1
Time series maximum				9.3
Units			relative	MT



# Assessment of Gulf of Maine / Cape Hatteras little skate (*Leucoraja erinacea*)

Assessment ID:NEFSC-LSKAT5YCHATT-1968-2006-SOSEBEE  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/430>

Area ID: USA-NMFS-5YCHATT

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Temporal indices derived from scientific survey data
Publication year	2007
Timeseries span	1968-2006
Document	skates2007.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-21
Date last loaded	2009-12-14
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
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

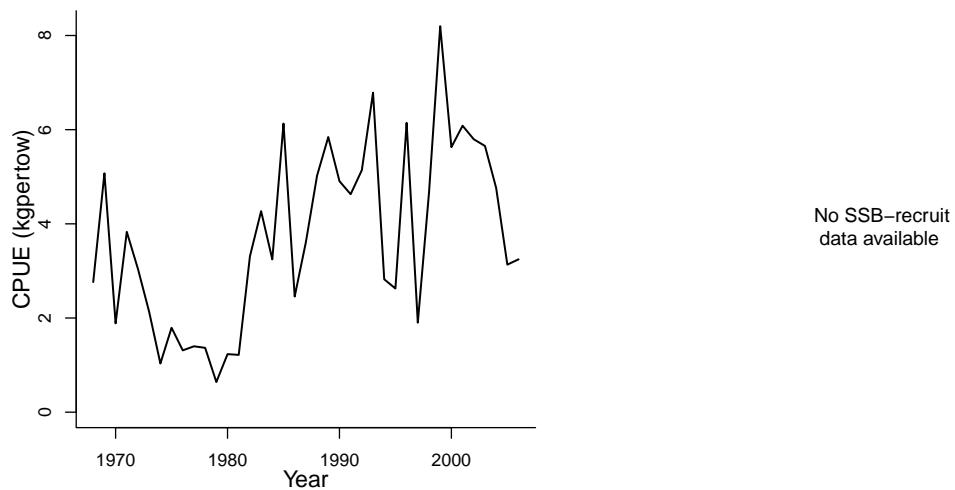
  

Reference points		
Parameter	Value	Units

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

No biomass data available

No recruitment data available



# Assessment of Gulf of Maine / Cape Hatteras mackerel (*Scomber scombrus*)

Assessment ID:NEFSC-MACKGOMCHATT-1960-2005-OVERHOLTZ  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/299>

Area ID: USA-NMFS-5YCHATT

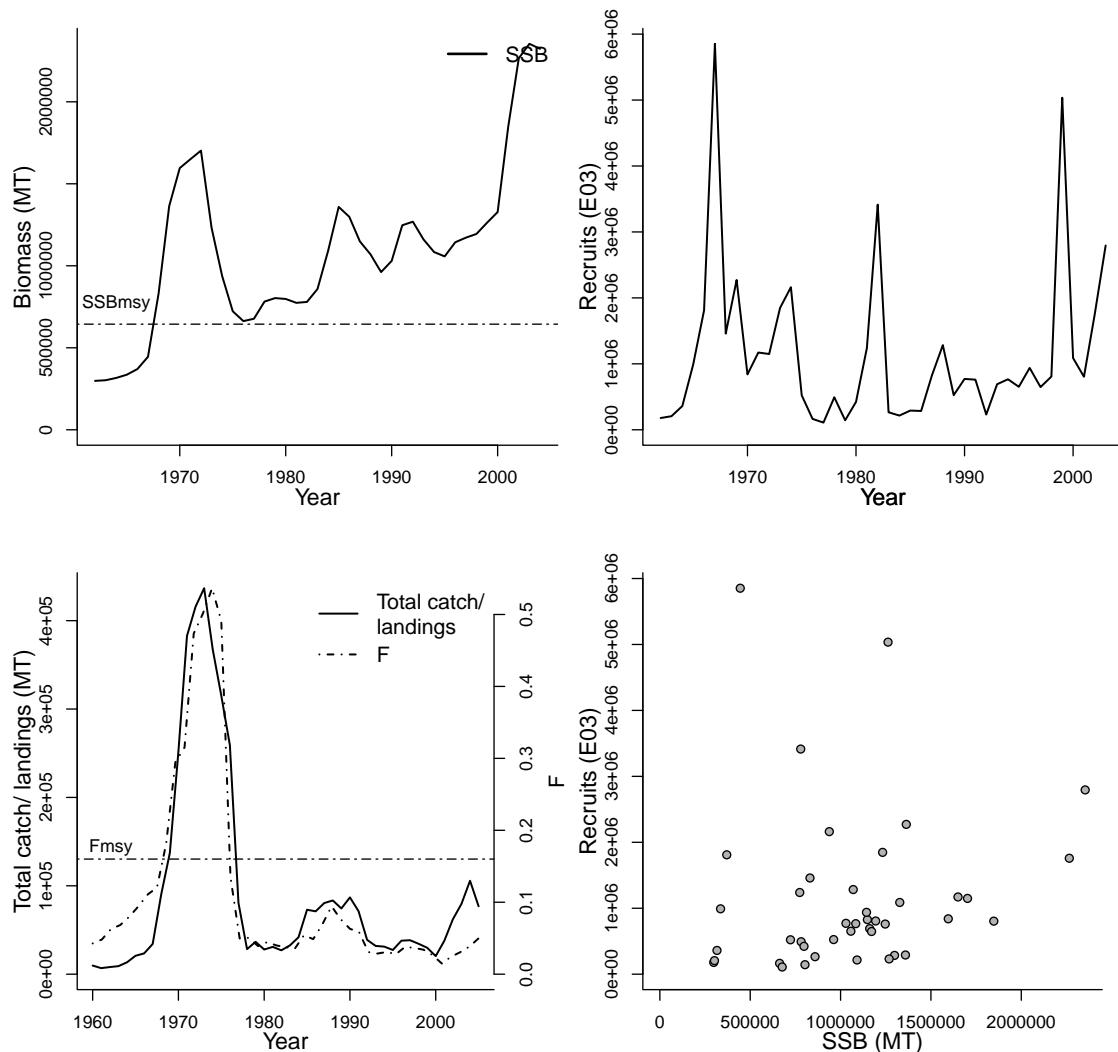
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Virtual Population Analysis
Publication year	2006
Timeseries span	1960-2005
Document	AtlanticMackerel2005.pdf (pdf in database)
Recorder	OVERHOLTZ
Date entered	2009-04-29
Date last loaded	2009-05-26
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	Reference points		
SSB-AGE-yr	2+	yr	Parameter	Value	Units
SSB-SEX-sex	0	sex	F0.1-1/yr (F)	0.25	1/yr
REC-AGE-yr	1	yr	Fmsy-1/yr (F)	0.16	1/yr
A50-yr	1.9	yr	F40%-1/T	0.24	1/T
L50-cm	25.85	cm	SSBmsy-MT (SSB)	644000	MT
M-1/yr	0.2	1/yr	MSY-MT (TB)	89000	MT
TB-AGE-yr			$F_{2004}/F_{msy}$	0.311	
F-AGE-yr			$SSB_{2004}/SSB_{msy}$	3.607	
M					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1962	1962	1962	1960
Maximum year	2004	2003	2004	2005
Time series minimum	298218	108962	0.0147906	6841
Time series maximum	2353680	5853030	0.536505	436698
Units	MT	E03	1/T	MT



# Assessment of Gulf of Maine / Northern Georges Bank monkfish (*Lophius americanus*)

Assessment ID:NEFSC-MONKGOMNGB-1964-2006-RICHARDS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/319>

Area ID: USA-NMFS-GOMNGB

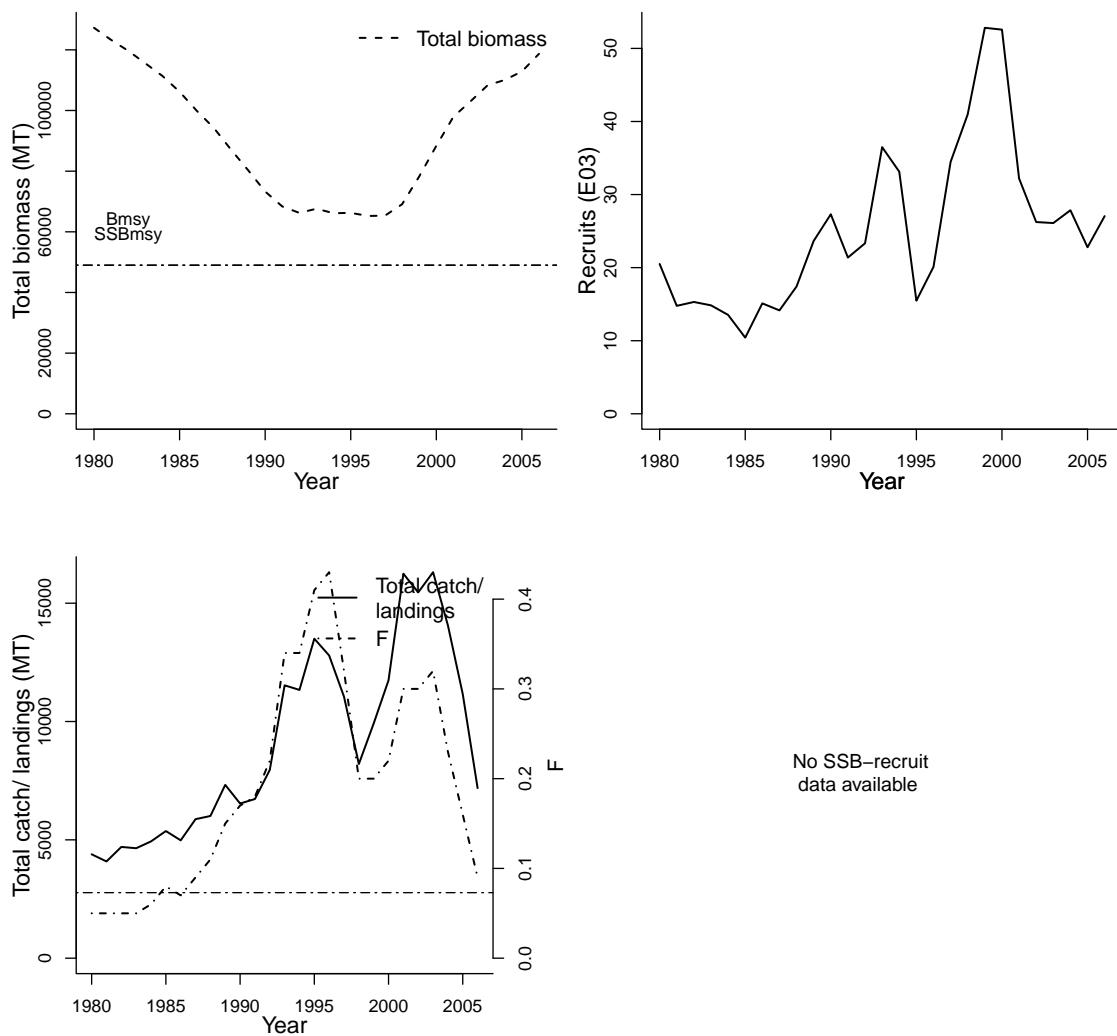
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Unknown
Publication year	2007
Timeseries span	1964-2006
Document	crd0721.pdf (pdf in database)
Recorder	RICHARDS
Date entered	2009-04-22
Date last loaded	2010-03-01
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	Reference points	
Parameter	Value	Units	Parameter	Value
A50-yr	7	yr	Bmsy-MT (TB)	49000
L50-cm	103	cm	Bpa-MT (TB)	24000
M-1/yr	0.15	1/yr	F0.1-1/yr (F)	0.073
REC-AGE			Fmax-1/yr (F)	0.114
SSB-AGE-yr			Fmsy-1/yr (F)	0.073
SSB-SEX-sex			SPRF0-E01 (SPR)	109
TB-AGE-yr			F40%-1/T	0.064
F-AGE-yr			SSBmsy-MT (SSB)	49000
M			MSY-MT (TB)	3500
			Frebuild-1/T (F)	0.044
			$TB_{2006}/B_{msy}$	2.422
			$F_{2006}/F_{msy}$	1.233

Time series minima and maxima				
	SSB	R	F	TB
Minimum year		1980	1980	1980
Maximum year		2006	2006	2006
Time series minimum	10.42	0.05	65230	4087
Time series maximum	52.82	0.43	127270	16309
Units	E03	1/T	MT	MT



**Assessment of Southern Georges Bank /**  
**Mid-Atlantic monkfish (*Lophius americanus*)**  
 Assessment ID:NEFSC-MONKSGBMATL-1964-2006-RICHARDS  
 Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/320>

Area ID: USA-NMFS-SGBMATL

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Size-based model
Publication year	2007
Timeseries span	1964-2006
Document	Monkfish2007NEFSCAssessment.pdf (pdf in database)
Recorder	RICHARDS
Date entered	2009-05-01
Date last loaded	2010-03-01
QA/QC complete	NO
Date approved	

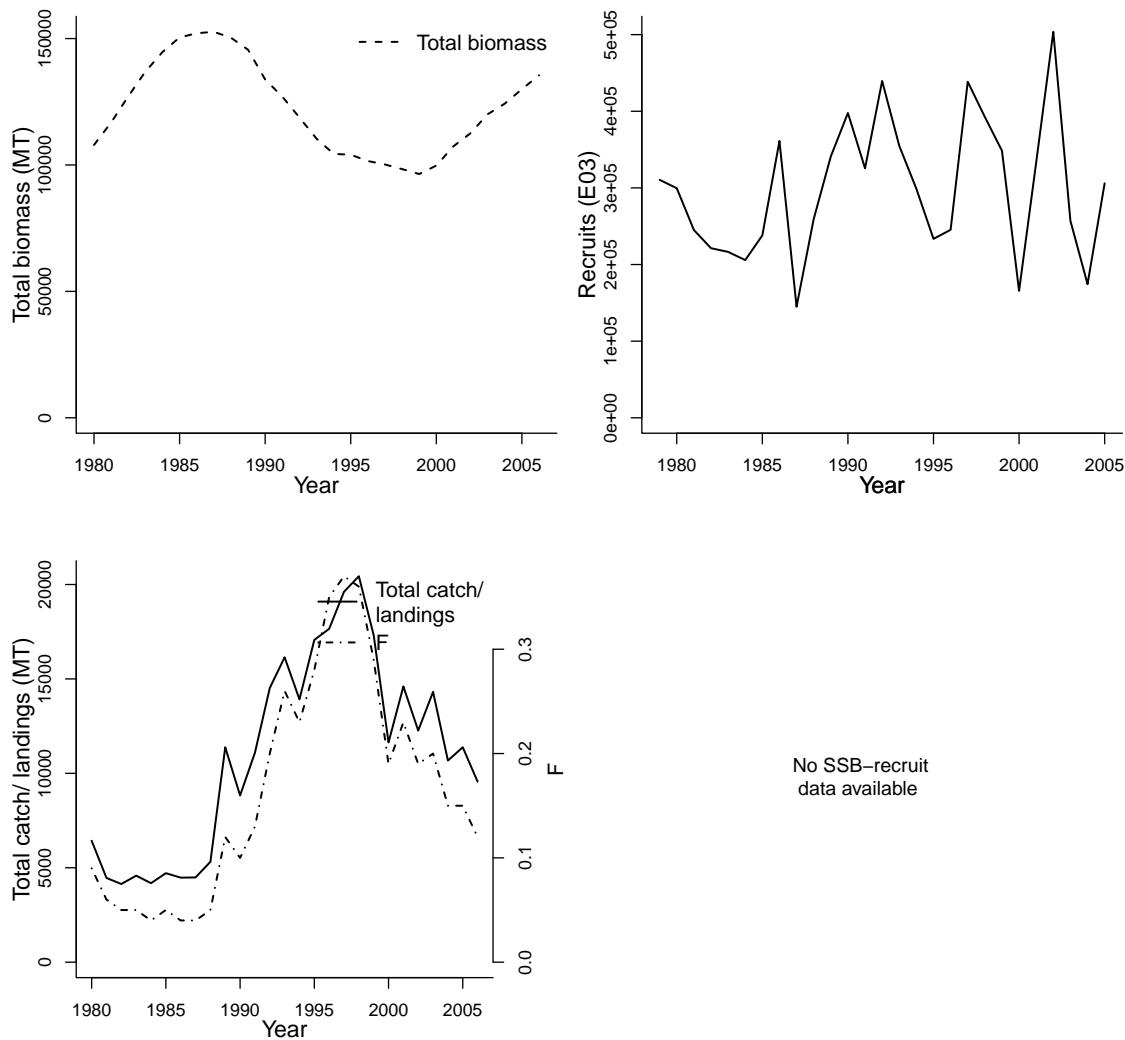
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	4+	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	3+	yr-yr
L50-cm	43.8	cm
M-1/yr	0.3	1/yr
TB-AGE-yr		
M		
A50-yr		

Reference points		
Parameter	Value	Units
Bpa-MT (TB)	122500	MT
F0.1-1/yr (F)	0.25	1/yr
Fmax-1/yr (F)	0.4	1/yr
F40%-1/T	0.31	1/T

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year		1979	1980	1980	1980
Maximum year		2005	2006	2006	2006
Time series minimum	144900	0.04	96415.3	4139.13	
Time series maximum	503700	0.37	152672	20438.44	
Units	E03	1/yr	MT	MT	



# Assessment of Northwestern Atlantic Coast ocean pout (*Zoarces americanus*)

Assessment ID:NEFSC-OPOUTNWATLC-1962-2008-WIGLEY

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/113>

Area ID: USA-NMFS-NWATLC

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1962-2008
Document	.pdf (pdf not in database)
Recorder	WIGLEY
Date entered	2008-12-11
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
<hr/>		
Parameter	Value	Units
M-1/T	0.2	1/T
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

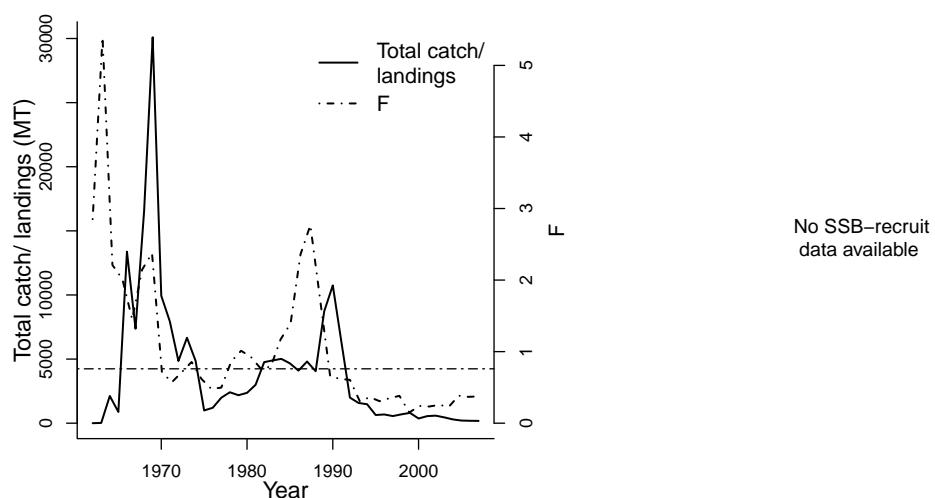
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Reference points	Parameter	Value	Units
Bmsy-MT (TB)	4.94	MT	
Fmsy-1/T (F)	0.76	1/T	
MSY-MT (TB)	3754	MT	
$F_{2007}/F_{msy}$	0.493		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1968	1962
Maximum year			2007	2007
Time series minimum			0.149	0
Time series maximum			5.394	30101.46
Units			ratio	MT

No biomass data available

No recruitment data available



No SSB-recruit data available

# Assessment of Gulf of Maine / Georges Bank pollock (*Pollachius virens*)

Assessment ID:NEFSC-POLL5YZ-1963-2007-MAYO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/275>

Area ID: USA-NMFS-5YZ

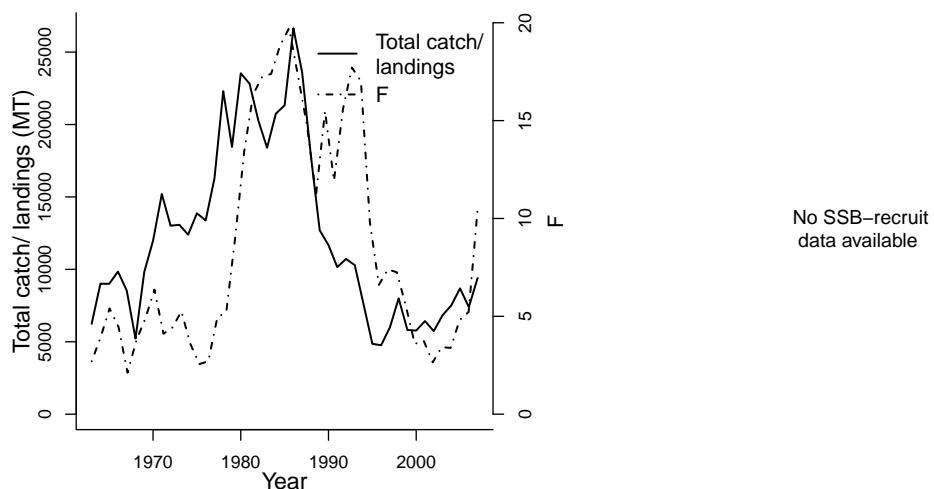
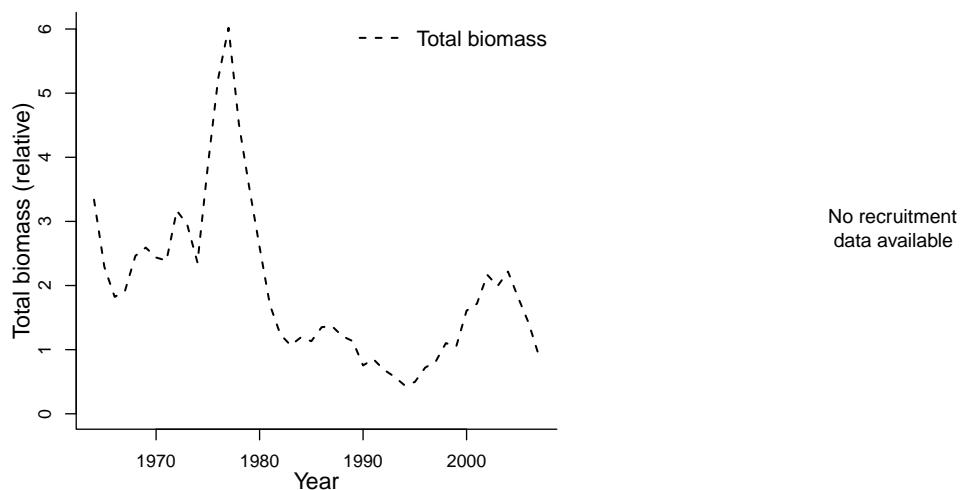
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	An Index Model (AIM); Fmsy proxy based on log-log regression of replacement ratio on relative F (catch/survey biomass index)
Publication year	2008
Timeseries span	1963-2007
Document	crd0815.pdf (pdf in database)
Recorder	MAYO
Date entered	2009-04-20
Date last loaded	2009-11-06
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	Reference points		
A50-yr	3.4	yr	Parameter	Value	Units
L50-cm	49.5	cm	Blim-relative	1	relative
M-1/yr	0.2	1/yr	Bmsy-relative	2	relative
REC-AGE			Umsy-ratio (U)	5.65	ratio
SSB-AGE-yr			MSY-MT (TB)	11320	MT
SSB-SEX-sex			$TB_{2007}/B_{msy}$	0.449	
TB-AGE-yr					
F-AGE-yr					
M					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1964	1964
Maximum year			2007	2007
Time series minimum			2.12	0.446
Time series maximum			19.721	6.019
Units		ratio		relative
				MT



# Assessment of Atlantic Coast ocean quahog (*Arctica islandica*)

Assessment ID:NEFSC-QUAHATLC-1978-2008-CHUTE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/437>

Area ID: USA-NMFS-ATLC

## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Delay difference model
Publication year	2009
Timeseries span	1978-2008
Document	quahog.pdf (pdf in database)
Recorder	CHUTE
Date entered	2009-12-29
Date last loaded	2010-07-21
QA/QC complete	NO
Date approved	

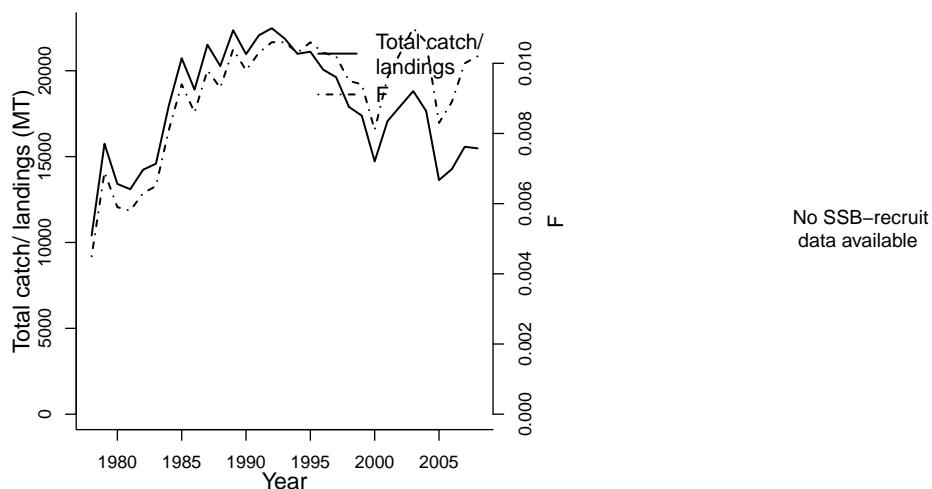
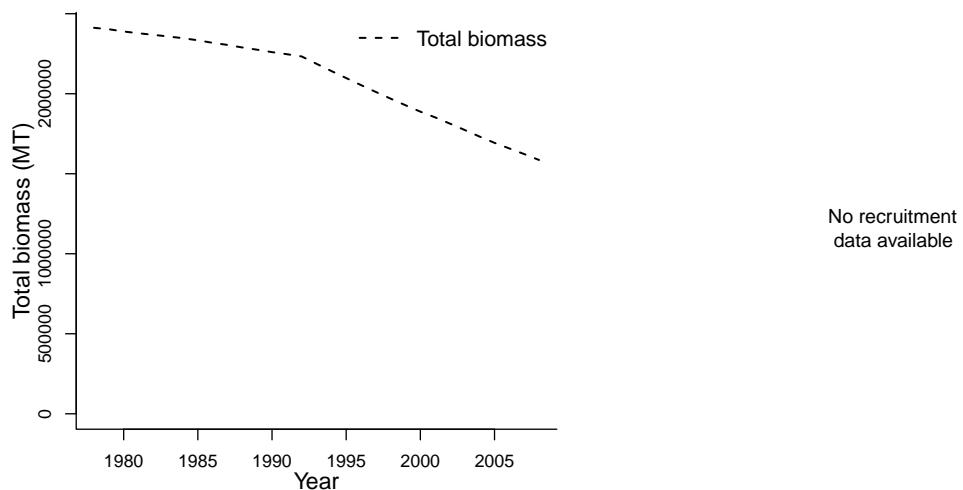
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na
Parameter	Value	Units
SSB-AGE-yr	variable	yr
SSB-SEX-sex	Lengths and ages at maturity are based on females	sex
REC-AGE-yr	13-28 years to 50% commercial selectivity	yr
A50-yr	19	yr
L50-cm	6.4	cm
M-1/yr	0.02	1/yr
TB-AGE-yr		
F-AGE-yr		
M		

Reference points		
Parameter	Value	Units

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1978	1978
Maximum year			2008	2008
Time series minimum		0.0045		1586000
Time series maximum		0.011		2412000
Units		1/T		MT
				MT



# Assessment of Northwestern Atlantic red deepsea crab (*Chaceon quinquedens*)

Assessment ID:NEFSC-RDEEPCRABNWATL-1982-2008-CHUTE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/349>

Area ID: USA-NMFS-NWATL

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Count
Publication year	2006
Timeseries span	1982-2008
Document	RedCrab2006.pdf (pdf in database)
Recorder	CHUTE
Date entered	2009-05-27
Date last loaded	2009-11-08
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
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

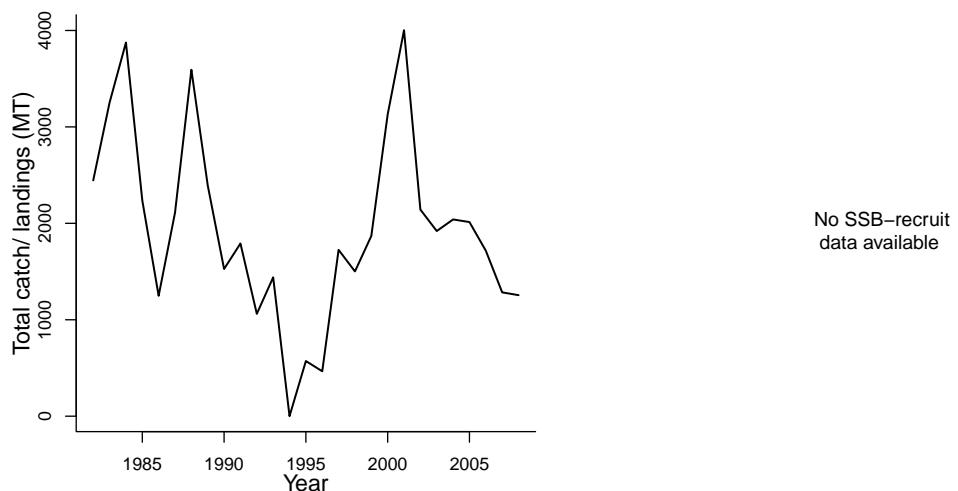
  

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year					1982
Maximum year					2008
Time series minimum					0.25
Time series maximum					4002.72
Units					MT

No biomass data available

No recruitment data available



No SSB-recruit data available

# Assessment of Mid-Atlantic Coast rosette skate (*Leucoraja garmani*)

Assessment ID:NEFSC-RSKATMATLC-1967-2005-SOSEBEE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/431>

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	Temporal indices derived from scientific survey data
Publication year	2007
Timeseries span	1967-2005
Document	skates2007.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-21
Date last loaded	2009-12-14
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
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

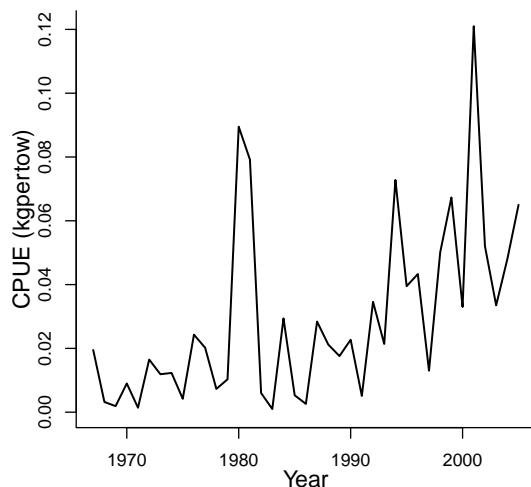
Reference points	Parameter	Value	Units

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

No biomass data available

No recruitment data available

No SSB-recruit data available



# Assessment of Georges Bank sea scallop (*Placopecten magellanicus*)

Assessment ID:NEFSC-SCALLGB-1964-2006-HART

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/417>

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	An AD-Model Builder catch at length model
Publication year	2007
Timeseries span	1964-2006
Document	SeaScallop2007.pdf (pdf in database)
Recorder	HART
Date entered	2009-04-22
Date last loaded	2009-11-08
QA/QC complete	NO
Date approved	

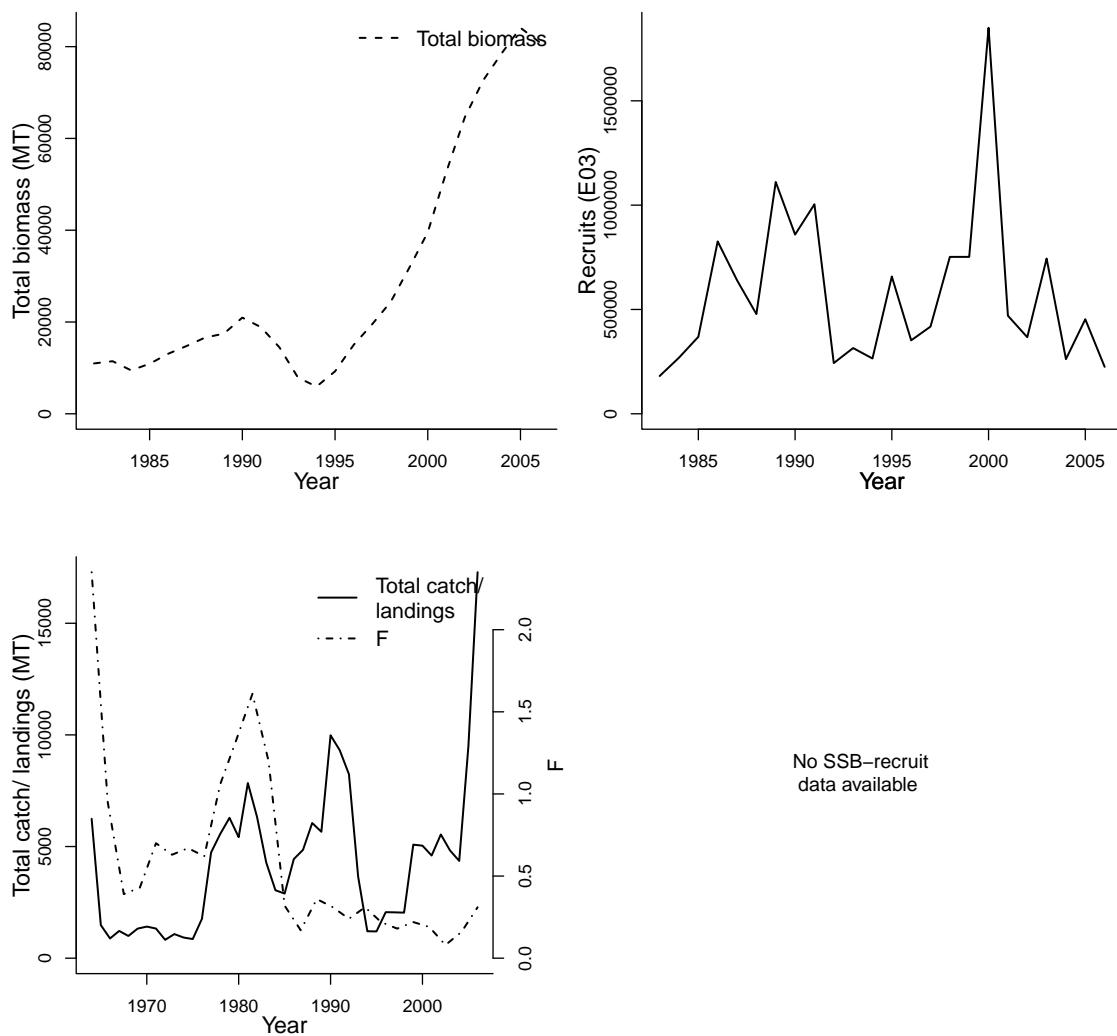
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
REC-AGE		
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
Minimum year		1983	1982	1982
Maximum year		2006	2006	2006
Time series minimum	181000	0.08	5923	821
Time series maximum	1850000	2.35	84106	17286
Units	E03	1/T	MT	MT



# Assessment of Mid-Atlantic Coast sea scallop (*Placopecten magellanicus*)

Assessment ID:NEFSC-SCALLMATLC-1964-2006-HART

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/418>

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	An AD-Model Builder catch at length model
Publication year	2007
Timeseries span	1964-2006
Document	SeaScallop2007.pdf (pdf in database)
Recorder	HART
Date entered	2009-04-22
Date last loaded	2010-02-24
QA/QC complete	NO
Date approved	

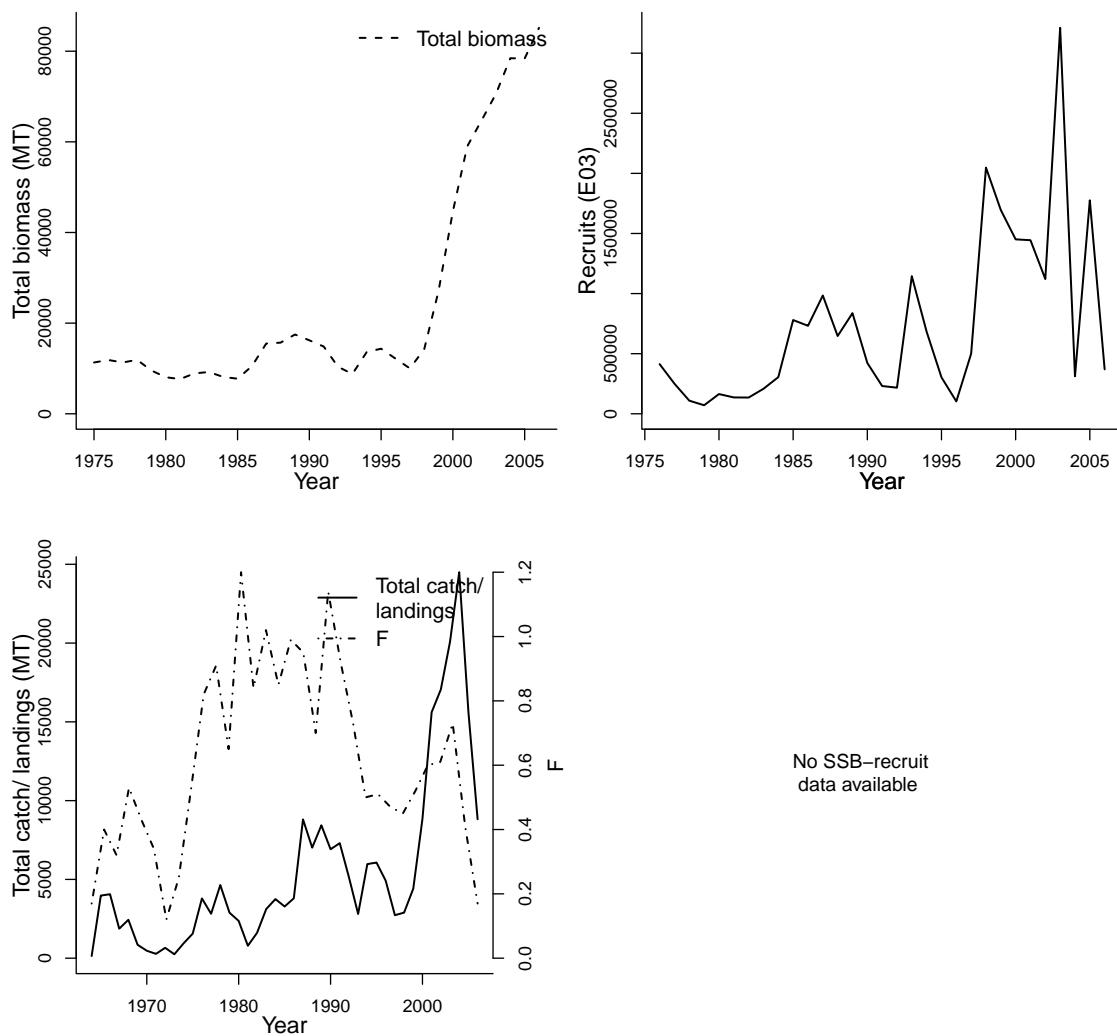
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
REC-AGE		
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
Minimum year		1976	1975	1975
Maximum year		2006	2006	2006
Time series minimum	71000	0.12	7664	137
Time series maximum	3211000	1.2	85161	24497
Units	E03	1/T	MT	MT



# Assessment of Northwestern Atlantic Coast scup (*Stenotomus chrysops*)

Assessment ID:NEFSC-SCUPNWATLC-1960-2007-TERCEIRO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/296>

Area ID: USA-NMFS-NWATLC

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	2009
Timeseries span	1960-2007
Document	crd0902.pdf (pdf in database)
Recorder	TERCEIRO
Date entered	2009-04-29
Date last loaded	2009-10-07
QA/QC complete	NO
Date approved	

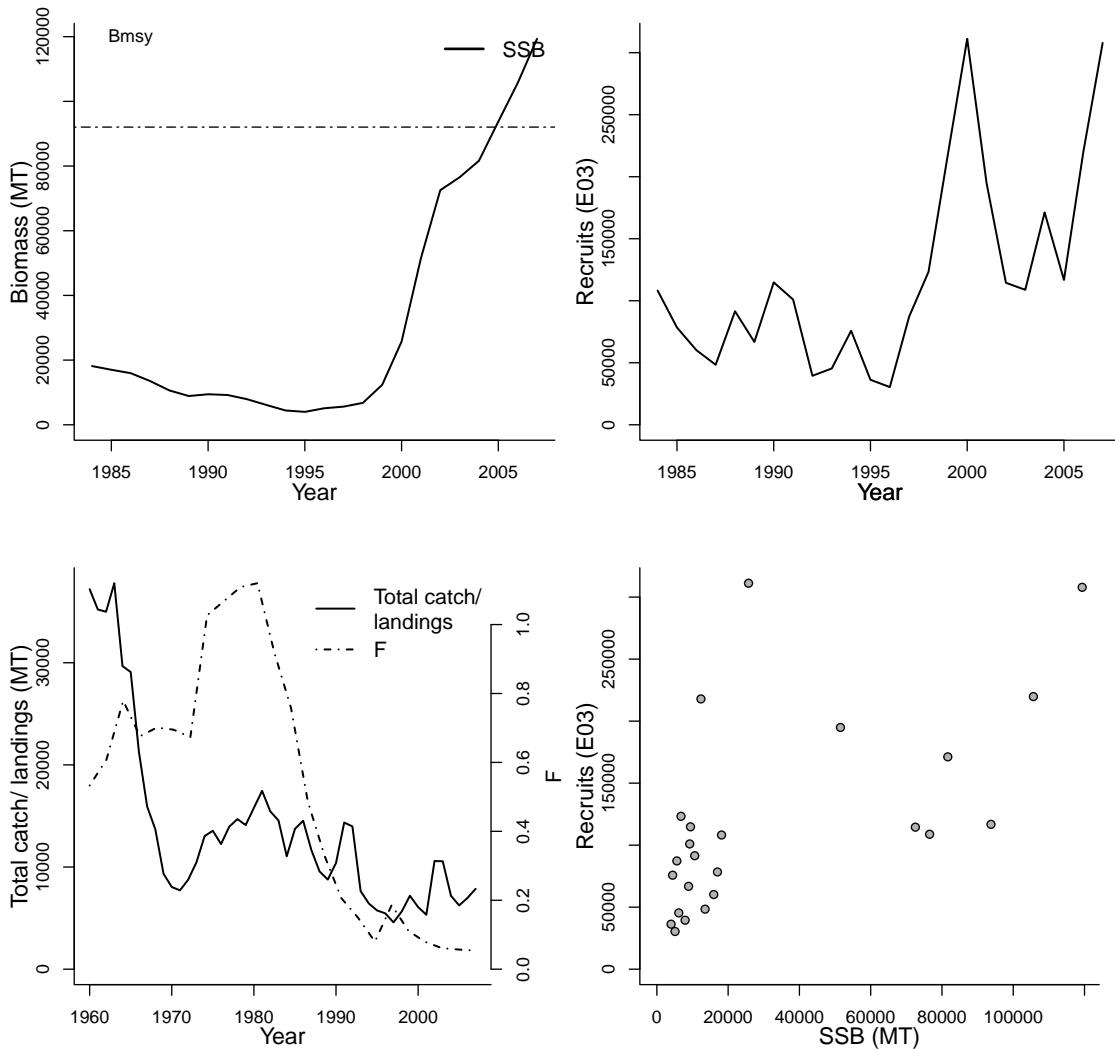
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	2+	yr
REC-AGE-yr	0	yr
F-AGE-yr-yr	2-7+	yr-yr
A50-yr	2	yr
M-1/yr	0.2	1/yr
SSB-SEX-sex		
TB-AGE-yr		
M		
L50-cm		

Reference points

Parameter	Value	Units
Bmsy-MT (TB)	92044	MT
Bpa-MT (TB)	46022	MT
FO.1-1/yr (F)	0.177	1/yr

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1984	1984	1984	1960
Maximum year	2007	2007	2007	2007
Time series minimum	3992.54	30400	0.054	4582
Time series maximum	119343	311200	1.12	37785
Units	MT	E03	1/T	MT



# Assessment of Atlantic Coast spiny dogfish (*Squalus acanthias*)

Assessment ID:NEFSC-SDOGATLC-1962-2006-SOSEBEE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/427>

Area ID: USA-NMFS-ATLC

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Unknown
Publication year	2006
Timeseries span	1962-2006
Document	spinydogfish2006.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-21
Date last loaded	2009-12-11
QA/QC complete	NO
Date approved	

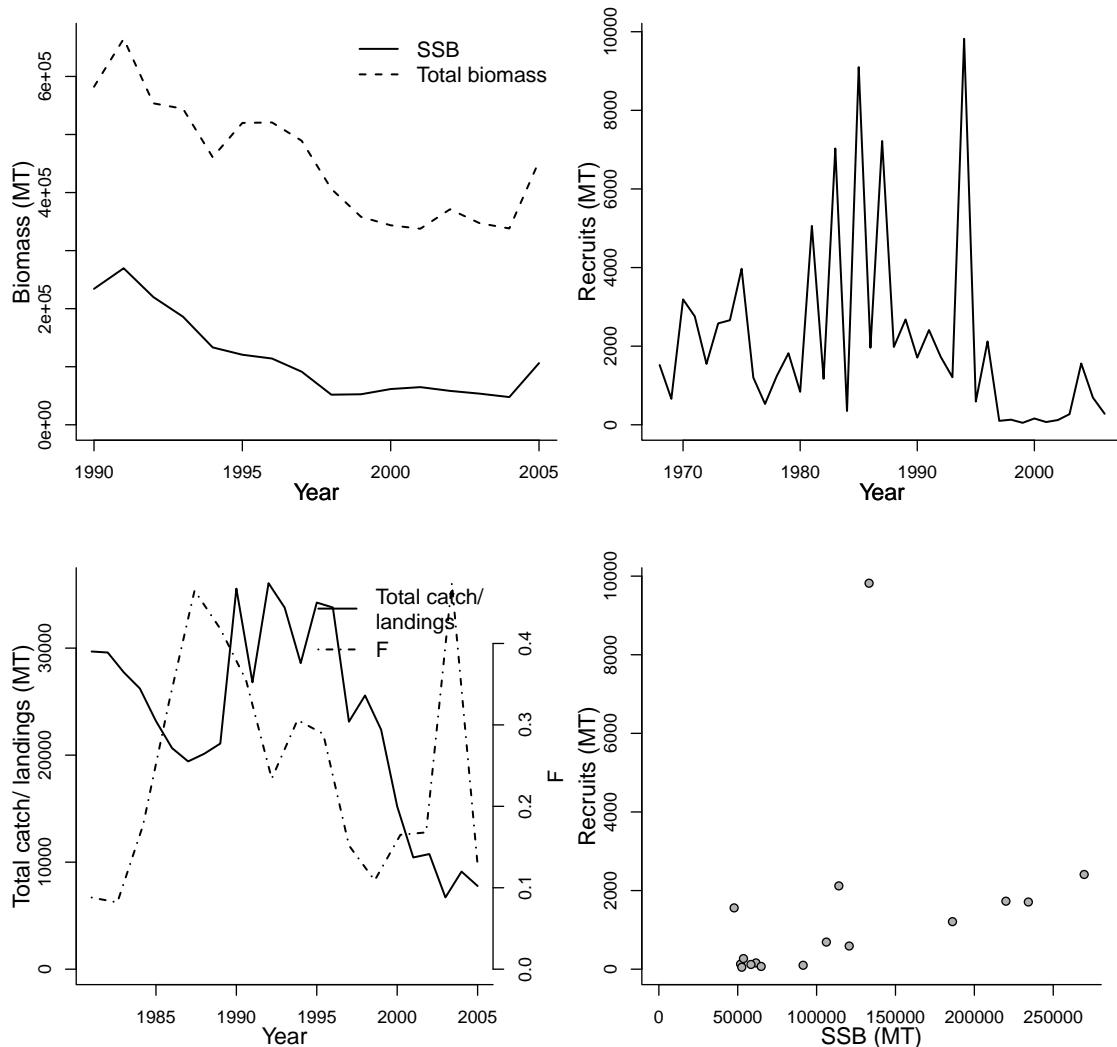
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	6 - Southeast U.S. Continental Shelf	na
<hr/>		
Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE		
SSB-AGE-yr		
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
Minimum year	1990	1968	1990	1990
Maximum year	2005	2006	2005	2005
Time series minimum	47720	50	0.082	337690
Time series maximum	269620	9820	0.474	664850
Units	MT	MT	1/T	MT



# 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

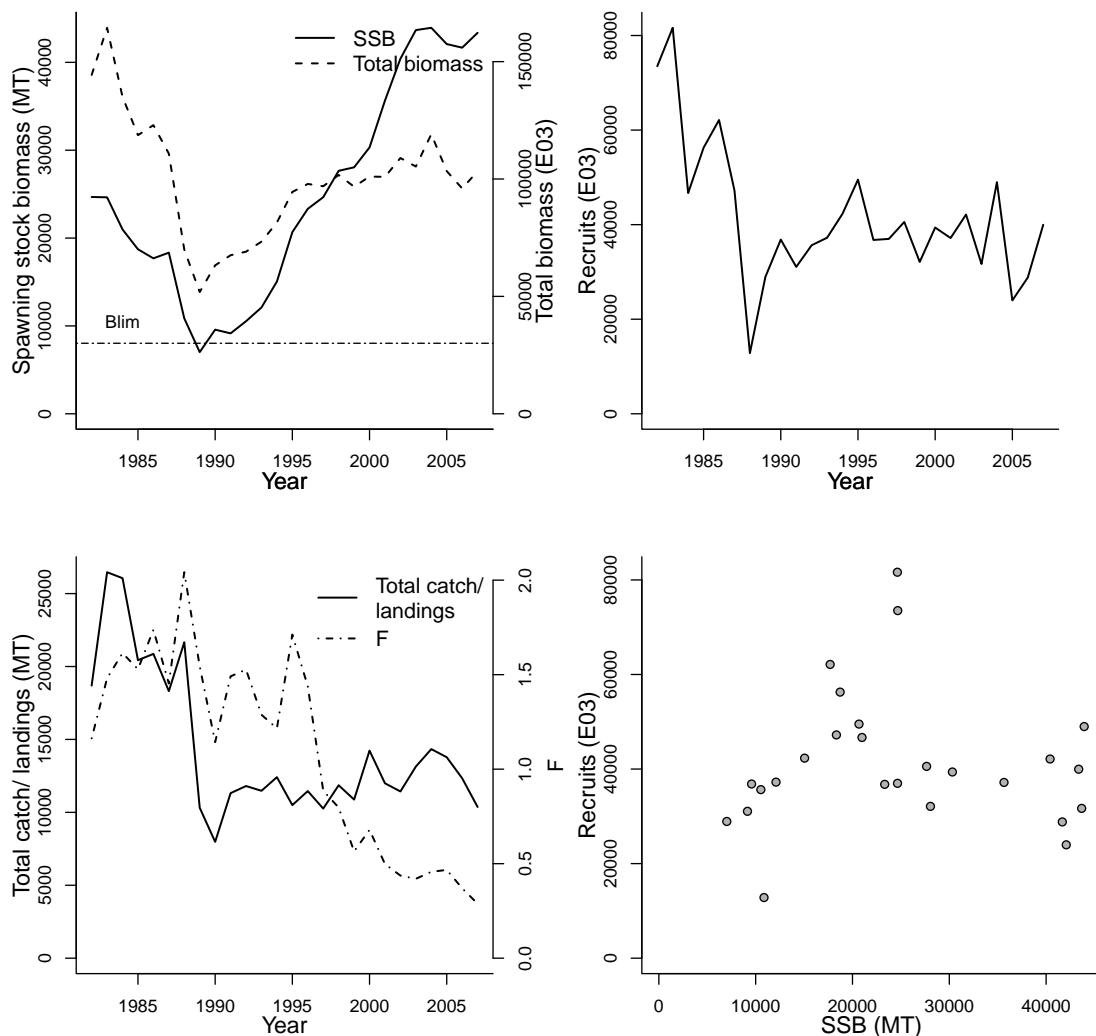
General assessment details.

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	Reference points		
SSB-SEX-sex	NA	sex	Parameter	Value	Units
REC-AGE-yr	0	yr	F40%-1/T	0.255	1/T
F-AGE-yr-yr	3-7+	yr-yr	SSB <sub>msy</sub> -MT (SSB)	60074	MT
A50-yr	AVAILABLE	yr	F35%-1/T	0.31	1/T
L50-cm	AVAILABLE	cm	Frebuild-1/T (F)	0.274	1/T
M-1/T	0.25	1/T	Blim-MT (TB)	30037	MT
SSB-AGE-yr			SSB <sub>2007</sub> /SSB <sub>msy</sub>	0.722	
TB-AGE-yr					
M					

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 Gulf of Maine / Georges Bank silver hake (*Merluccius bilinearis*)

Assessment ID:NEFSC-SHAKEGOMNGB-1955-2005-COL

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/287>

Area ID: USA-NMFS-5YZ

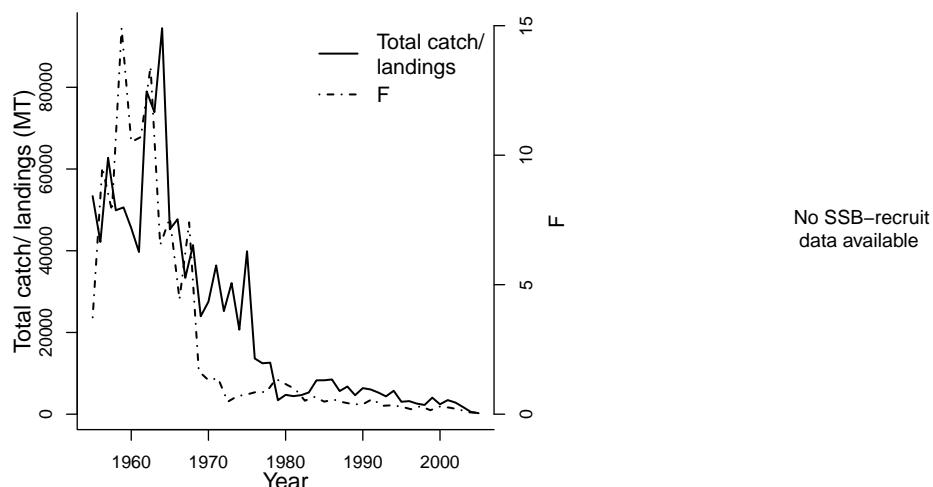
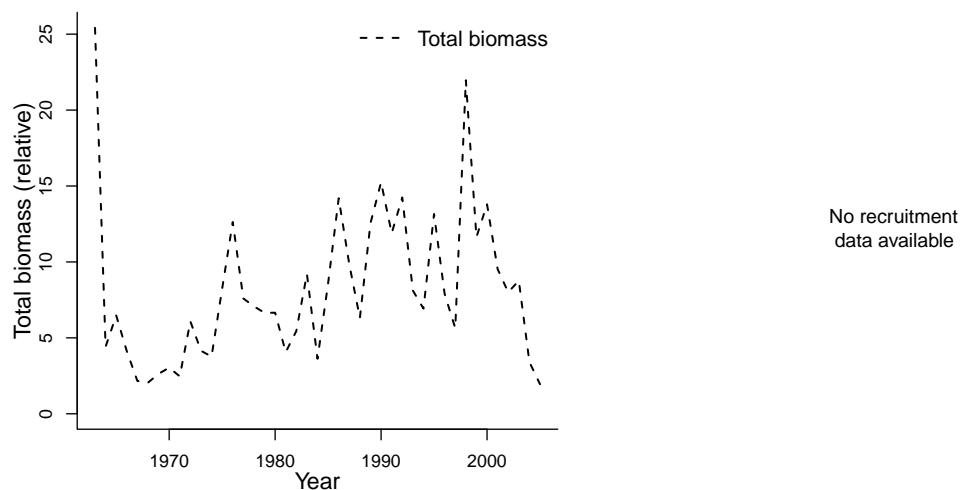
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Temporal indices derived from scientific survey data
Publication year	2005
Timeseries span	1955-2005
Document	SilverHake-2005-NEFSC-Assessment.pdf (pdf in database)
Recorder	COL
Date entered	2009-04-24
Date last loaded	2010-01-04
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	Reference points	
A50-yr	2	yr	Parameter	Value
REC-AGE			Bmsy-relative	6.63
SSB-AGE-yr			Bpa-relative	3.31
SSB-SEX-sex			Umsy-ratio (U)	2.57
TB-AGE-yr			$TB_{2005}/B_{msy}$	0.294
F-AGE-yr				
M				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1965	1963	1955
Maximum year			2005	2005	2005
Time series minimum			0.050337	1.947	240.98
Time series maximum			14.90240096	25.418	94462
Units			ratio	relative	MT



# Assessment of Southern Georges Bank / Mid-Atlantic silver hake (*Merluccius bilinearis*)

Assessment ID:NEFSC-SHAESGBMATL-1955-2005-COL

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/288>

Area ID: USA-NMFS-SGBMATL

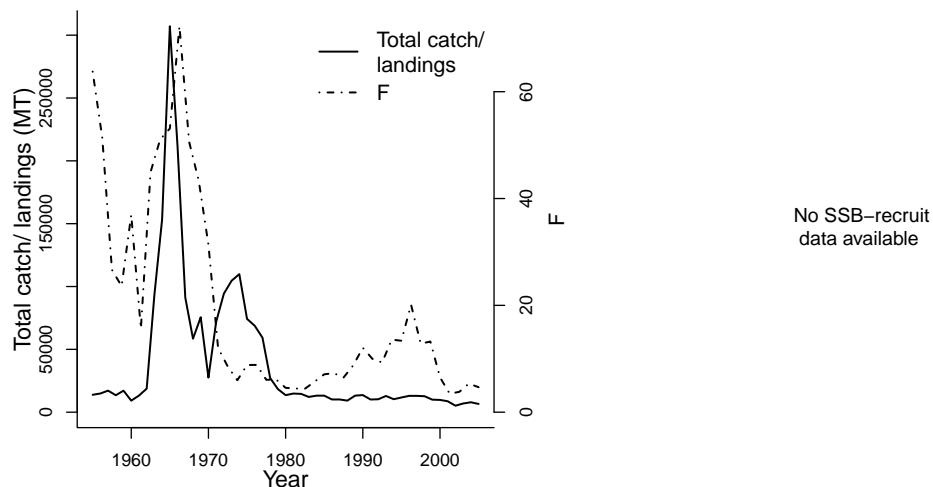
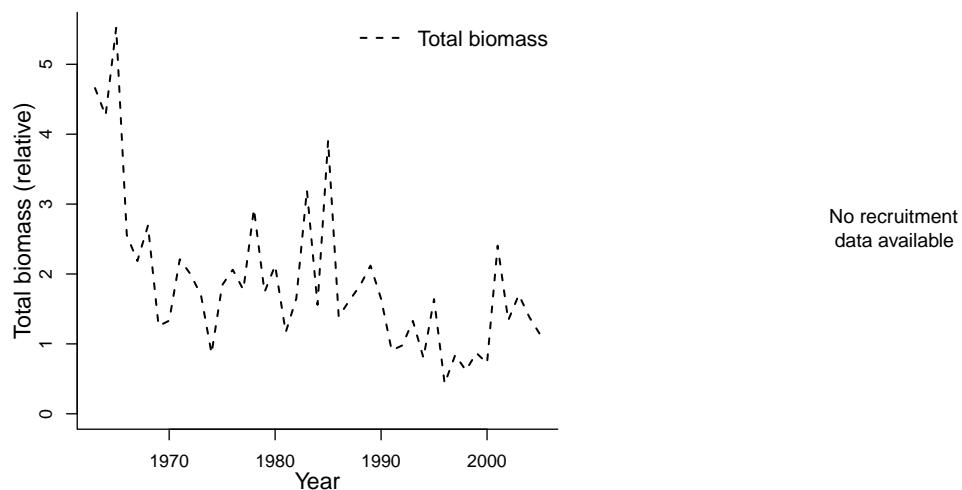
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Temporal indices derived from scientific survey data
Publication year	2005
Timeseries span	1955-2005
Document	SilverHake-2005-NEFSC-Assessment.pdf (pdf in database)
Recorder	COL
Date entered	2009-04-24
Date last loaded	2010-02-11
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
7 - Northeast U.S. Continental Shelf			na	na
Parameter	Value	Units	Reference points	
A50-yr	2	yr	Parameter	Value
REC-AGE			Bmsy-relative	1.78
SSB-AGE-yr			Bpa-relative	0.89
SSB-SEX-sex			Umsy-ratio (U)	34.39
TB-AGE-yr			Upa-ratio	20.63
F-AGE-yr			$TB_{2005}/B_{m sy}$	0.638
M				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1965	1963	1955
Maximum year			2005	2005	2005
Time series minimum			3.463264991	0.431	5153.338306
Time series maximum			72.26244245	5.522	307131
Units			ratio	relative	MT



# Assessment of Gulf of Maine / Georges Bank-Southern New England smooth skate

## (*Malacoraja senta*)

Assessment ID:NEFSC-SSKAT5YZSNE-1963-2005-SOSEBEE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/432>

Area ID: USA-NMFS-5YZSNE

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Temporal indices derived from scientific survey data
Publication year	2007
Timeseries span	1963-2005
Document	skates2007.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-21
Date last loaded	2009-12-14
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
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

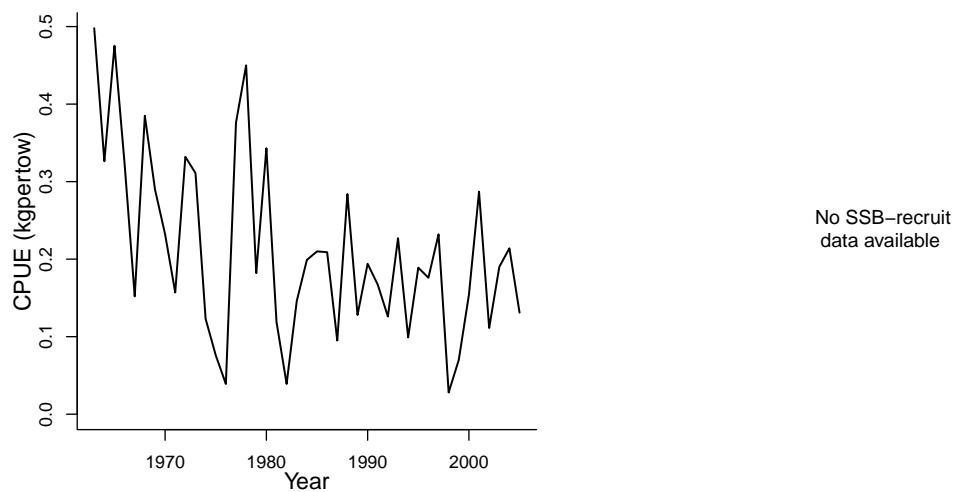
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Reference points	Parameter	Value	Units

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



# Assessment of Gulf of Maine / Cape Hatteras striped bass (*Morone saxatilis*)

## Assessment

ID:NEFSC-STRIPEDBASSGOMCHATT-1982-2006-SHEPHERD

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/298>

Area ID: USA-NMFS-5YCHATT

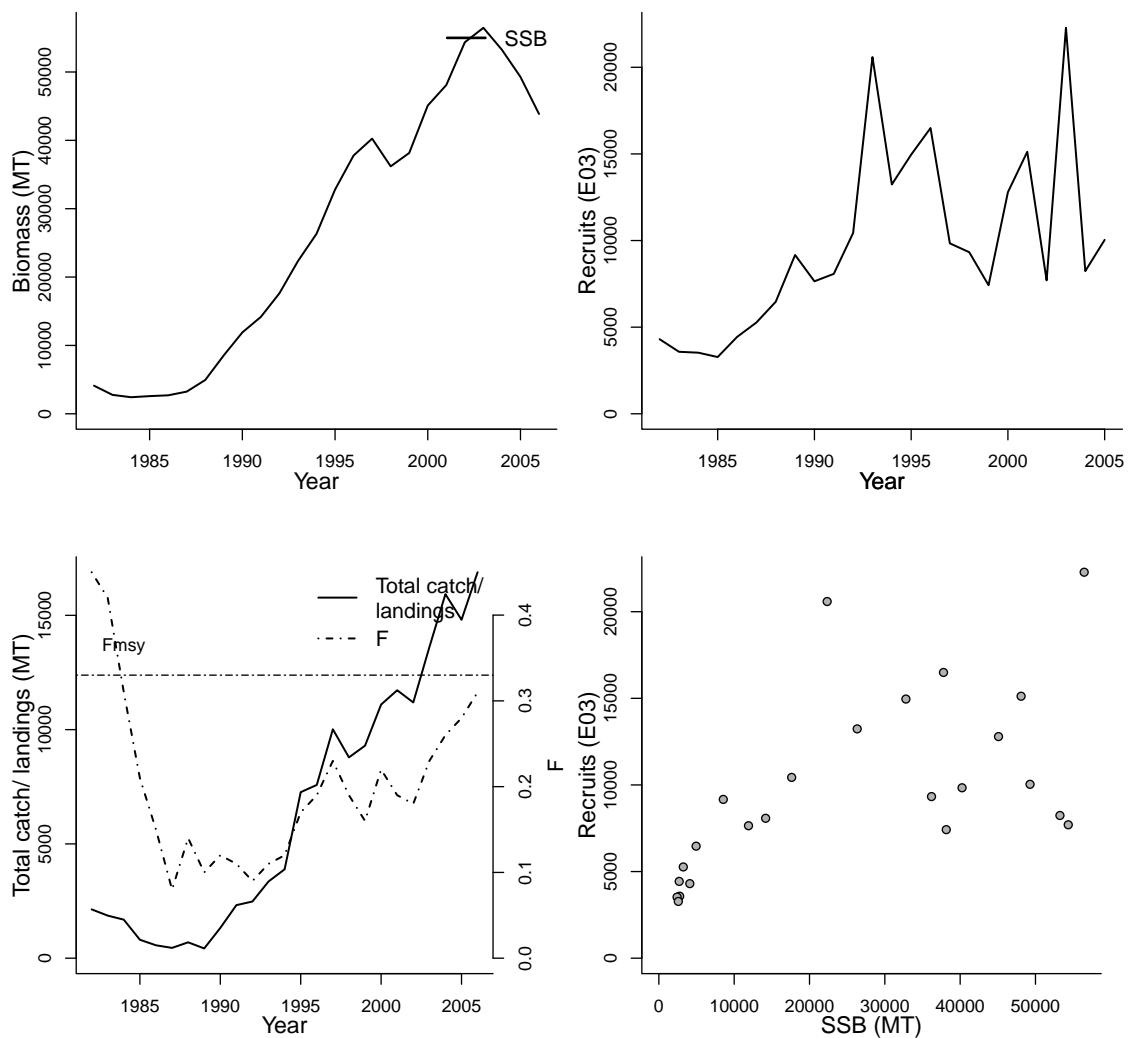
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1982-2006
Document	07AssessmentReport.pdf (pdf in database)
Recorder	SHEPHERD
Date entered	2009-04-29
Date last loaded	2009-11-06
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	6+	yr		
SSB-SEX-sex	1	sex	Reference points	
REC-AGE-yr	1	yr	Parameter	Value
F-AGE-yr-yr	8-11	yr-yr		Units
TB-AGE-yr	0+	yr	F <sub>msy</sub> -1/T (F)	0.33
A50-yr	6	yr	MSY-MT (TB)	17823
M-1/T	0.15	1/T	$F_{2006}/F_{msy}$	MT
M				0.939
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1982	1982	1982	1982
Maximum year	2006	2005	2006	2006
Time series minimum	2420.67	3275.23	0.08	426.8
Time series maximum	56464	22279.1	0.45	16887.34
Units	MT	E03	1/T	MT



# Assessment of Mid-Atlantic Coast atlantic surfclam (*Spisula solidissima*)

Assessment ID:NEFSC-SURFMATLC-1965-2008-JACOBSON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/436>

Area ID: USA-NMFS-MATLC

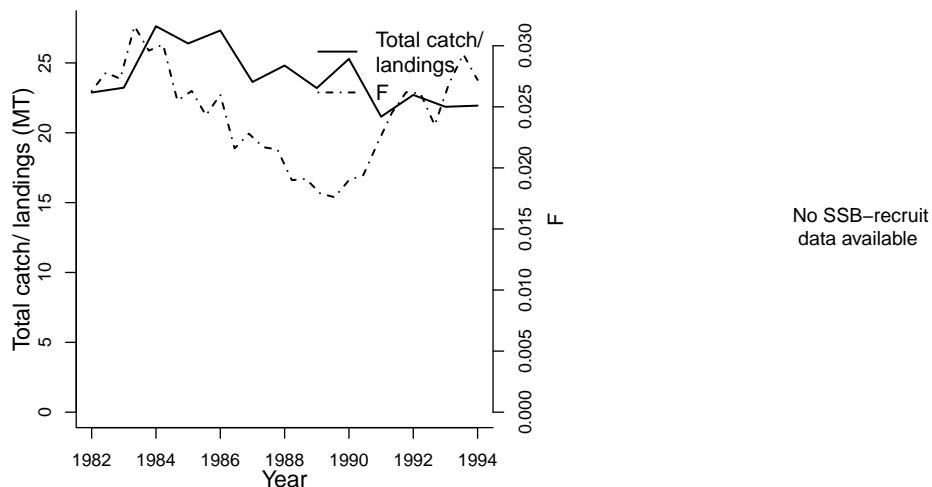
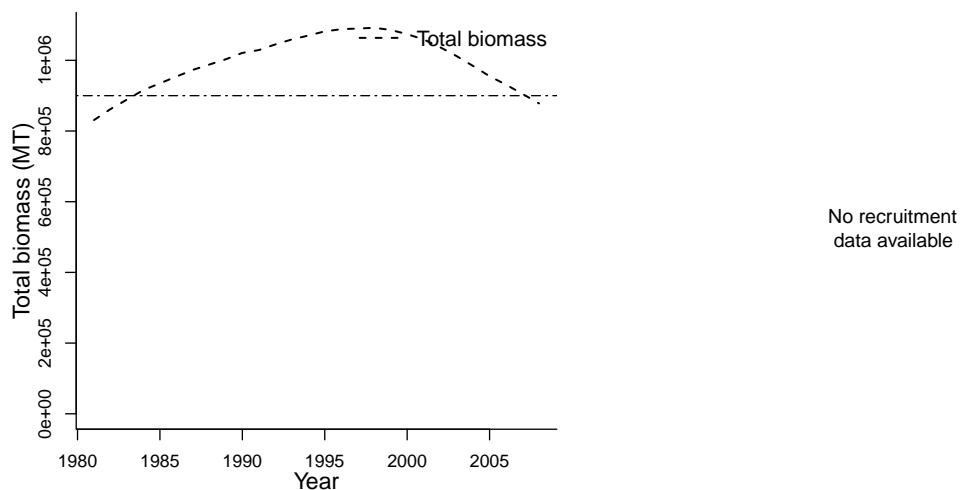
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Delay difference model
Publication year	2007
Timeseries span	1965-2008
Document	Surfclam2007.pdf (pdf in database)
Recorder	JACOBSON
Date entered	2009-04-22
Date last loaded	2010-03-17
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	Parameter	Reference points
SSB-AGE-yr	0.25	yr	Fmsy-1/yr (F)	0.15
SSB-SEX-sex	0	sex	Fmsy-1/T (F)	0.15
REC-AGE-yr	5.936	yr	Bmsy-MT (TB)	1/yr
F-AGE-yr-yr	5.9+	yr-yr	$TB_{2008}/B_{msy}$	1/T
TB-AGE-yr	5.9+	yr	$F_{2008}/F_{msy}$	900000
M-1/yr	0.15	1/yr		MT
M				0.976
A50-yr				0.181
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year			1981	1981	1982
Maximum year			2008	2008	1994
Time series minimum			0.0176	831000	21.151
Time series maximum			0.0316	1092000	27.627
Units			1/T	MT	MT



# Assessment of Mid-Atlantic Coast tilefish (*Lopholatilus chamaeleonticeps*)

Assessment ID:NEFSC-TILEMATLC-1973-2008-NITSCHKE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/315>

Area ID: USA-NMFS-MATLC

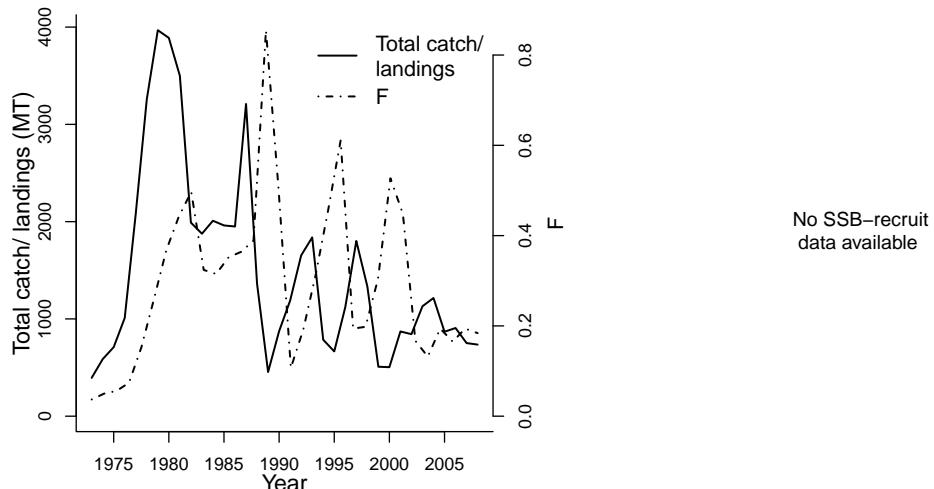
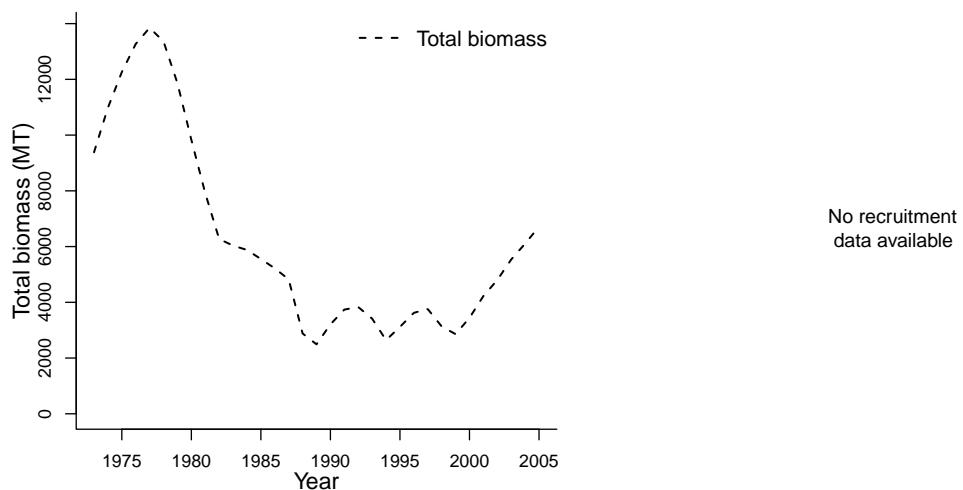
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Surplus production model
Publication year	2005
Timeseries span	1973-2008
Document	Tilefish2005.pdf (pdf in database)
Recorder	NITSCHKE
Date entered	2009-04-22
Date last loaded	2009-11-08
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
<hr/>			
Parameter	Value	Units	
A50-yr	4.5	yr	
L50-cm	46	cm	
REC-AGE			Reference points
SSB-AGE-yr			Parameter
SSB-SEX-sex			Value
TB-AGE-yr			Units
F-AGE-yr			
M			
<hr/>			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1973	1973	1973
Maximum year			2004	2005	2008
Time series minimum			0.037	2492	394
Time series maximum			0.855	13850	3968
Units			1/T	MT	MT



# Assessment of Gulf of Maine / Georges Bank-Southern New England thorny skate

*(Amblyraja radiata)*

Assessment ID:NEFSC-TSKAT5YZSNE-1963-2005-SOSEBEE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/433>

Area ID: USA-NMFS-5YZSNE

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Temporal indices derived from scientific survey data
Publication year	2007
Timeseries span	1963-2005
Document	skates2007.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-21
Date last loaded	2009-12-14
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
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

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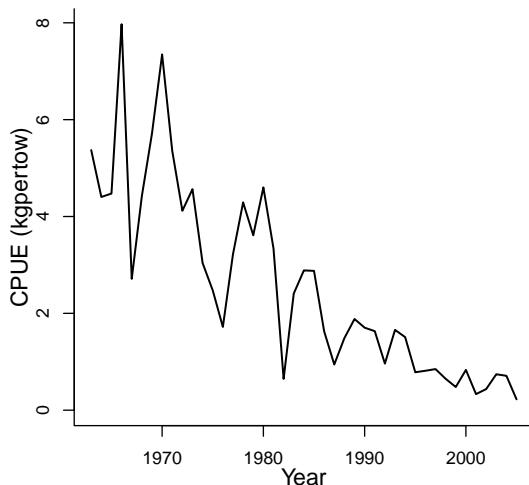
Reference points	Parameter	Value	Units

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 SSB-recruit data available



# Assessment of Atlantic Coast weakfish (*Cynoscion regalis*)

Assessment ID:NEFSC-WEAKFISHATLC-1981-2008-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/449>

Area ID: USA-NMFS-ATLC

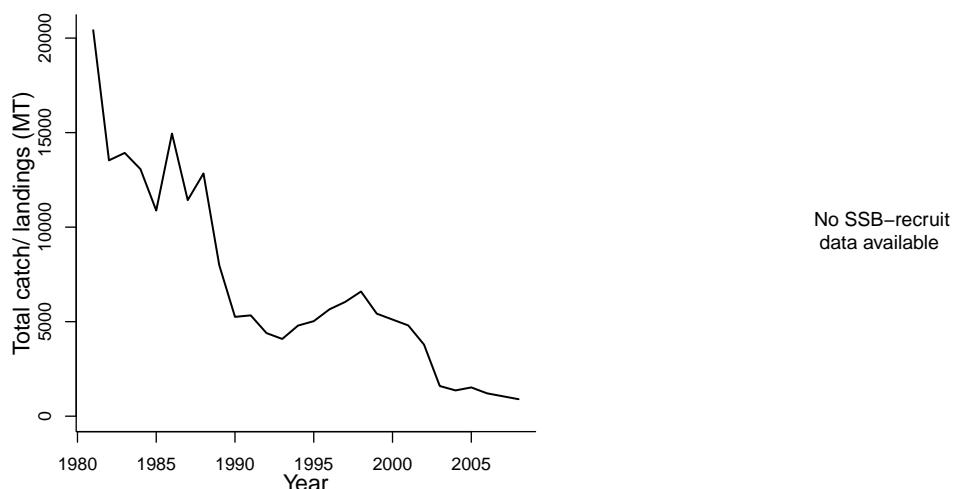
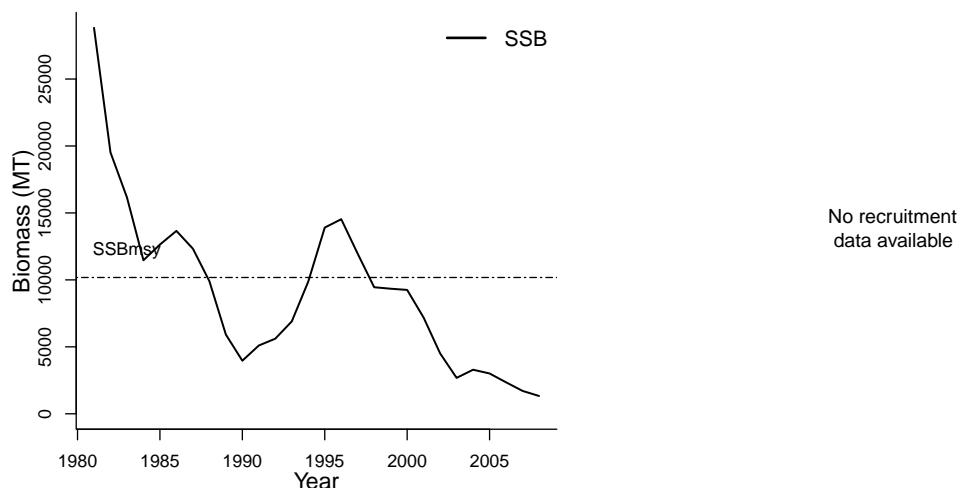
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Anonymous
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2009
Timeseries span	1981-2008
Document	NEFSC-Weakfish-2009.pdf (pdf in database)
Recorder	STANTON
Date entered	2010-04-11
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2010-07-28

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		
TB-AGE-yr	1+	yr		
M-1/yr	0.25	1/yr	Reference points	
REC-AGE			Parameter	Value
SSB-AGE-yr			SSB <sub>m</sub> sy-MT (SSB)	10179 MT
F-AGE-yr			SSB <sub>2008</sub> /SSB <sub>m</sub> sy	0.131
M				
A50-yr				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981				1981
Maximum year		2008			2008
Time series minimum	1330				899
Time series maximum	28826				20417
Units	MT				MT



# Assessment of Gulf of Maine / Georges Bank white hake (*Urophycis tenuis*)

Assessment ID:NEFSC-WHAKEGBGOM-1963-2007-SOSEBEE  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/415>

Area ID: USA-NMFS-5YZ

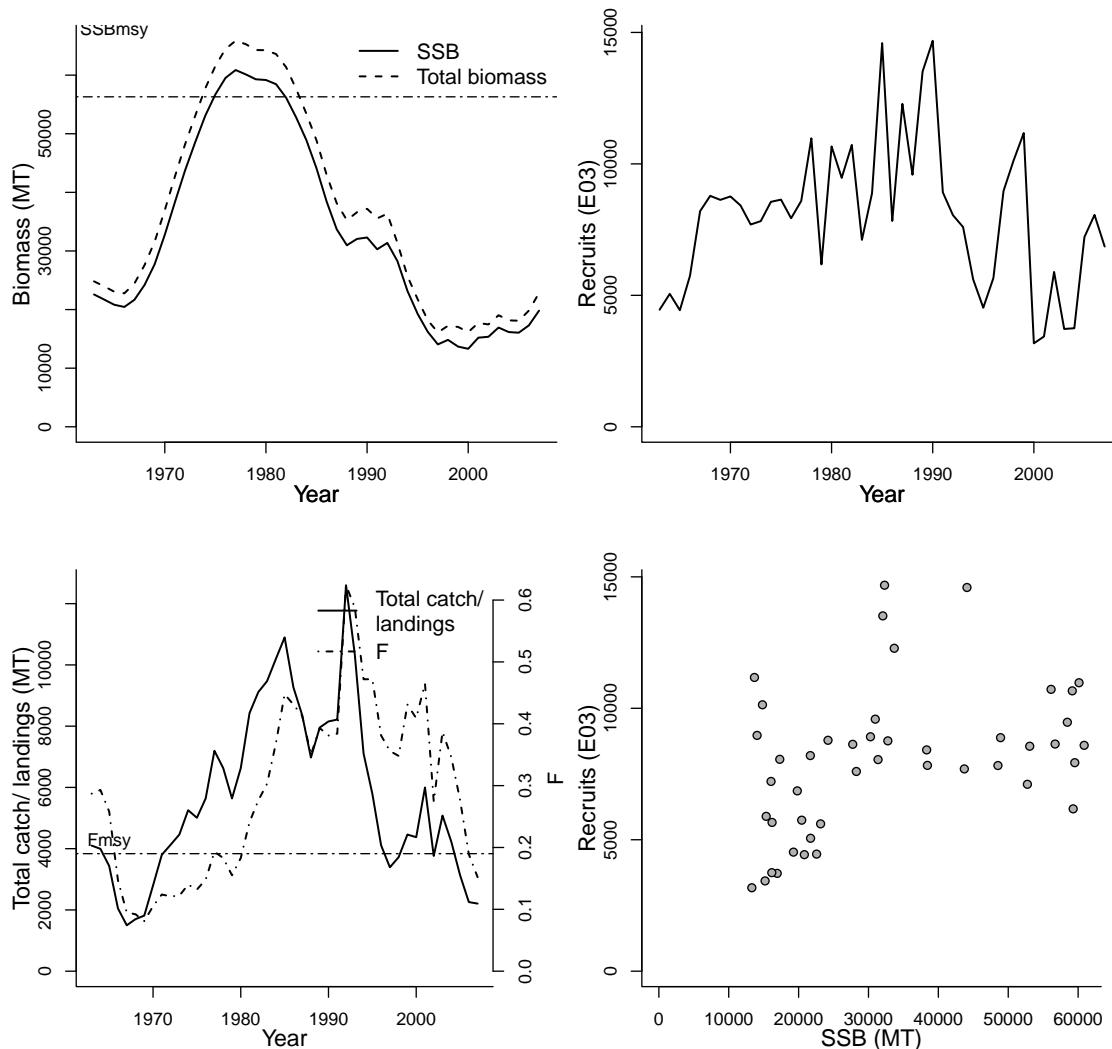
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Age-structured surplus production model
Publication year	2008
Timeseries span	1963-2007
Document	WhiteHake2008.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-20
Date last loaded	2010-03-17
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	Parameter	Reference points
SSB-SEX-sex	0	sex	Parameter	Value
REC-AGE-yr	1	yr	Fmsy-1/T (F)	0.19
F-AGE-yr-yr	1-9	yr-yr	SPRF0-E01 (SPR)	17.5788
TB-AGE-yr	1	yr	F40%-1/T	0.13
A50-yr	2.568	yr	SSBmsy-MT (SSB)	56300
M-1/T	0.2	1/T	MSY-MT (TB)	5800
SSB-AGE-yr			Frebuild-1/T (F)	0.13
M			$F_{2007}/F_{msy}$	0.800
L50-cm			$SSB_{2007}/SSB_{msy}$	0.352

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1963	1963	1963	1963	1963
Maximum year	2007	2007	2007	2007	2007
Time series minimum	13304	3173.77	0.081	16102.01	1498.41
Time series maximum	60869	14681.7	0.624	65856.89	12602.02
Units	MT	E03	1/T	MT	MT



# Assessment of Gulf of Maine / Georges Bank windowpane (*Scophthalmus aquosus*)

Assessment ID:NEFSC-WINDOWGOMGB-1975-2007-HENDRICKSON  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/329>

Area ID: USA-NMFS-5YZ

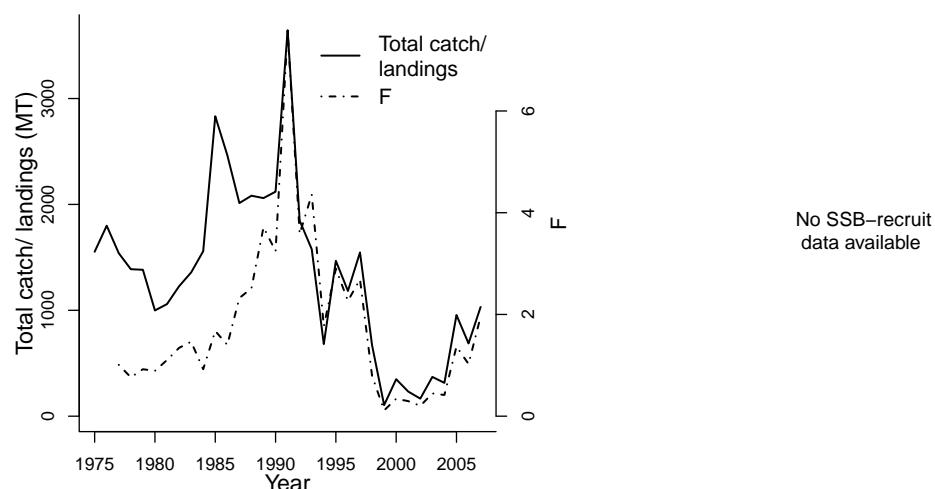
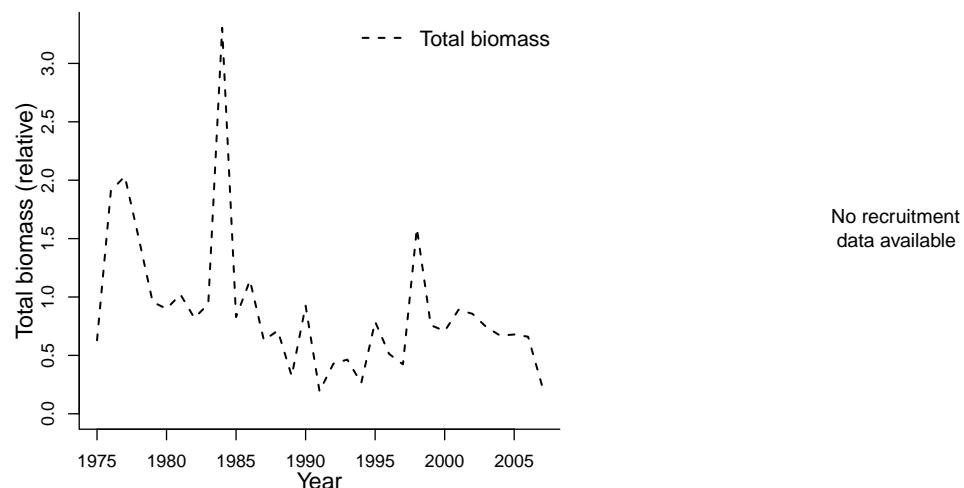
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Survey based stock assessment method
Publication year	2008
Timeseries span	1975-2007
Document	garm3p.pdf (pdf in database)
Recorder	HENDRICKSON
Date entered	2009-04-20
Date last loaded	2009-10-05
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
7 - Northeast U.S. Continental Shelf			na	na
Parameter	Value	Units	Reference points	
L50-cm	22.5	cm	Parameter	Value
M-1/yr	0.2	1/yr		Units
REC-AGE			MSY-MT (TB)	700
SSB-AGE-yr			Bpa-relative	0.70
SSB-SEX-sex			Umsy-ratio (U)	0.50
TB-AGE-yr			Bmsy-relative	1.40
F-AGE-yr			$TB_{2007}/B_{msy}$	0.173
M				
A50-yr				

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year			1977	1975	1975
Maximum year			2007	2007	2007
Time series minimum			0.114	0.193	104.76
Time series maximum			7.588	3.305	3645.29
Units			ratio	relative	MT



# Assessment of Southern New England /Mid Atlantic windowpane (*Scophthalmus aquosus*) Assessment

ID:NEFSC-WINDOWSNEMATL-1975-2007-HENDRICKSON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/328>

Area ID: USA-NMFS-SNEMATL

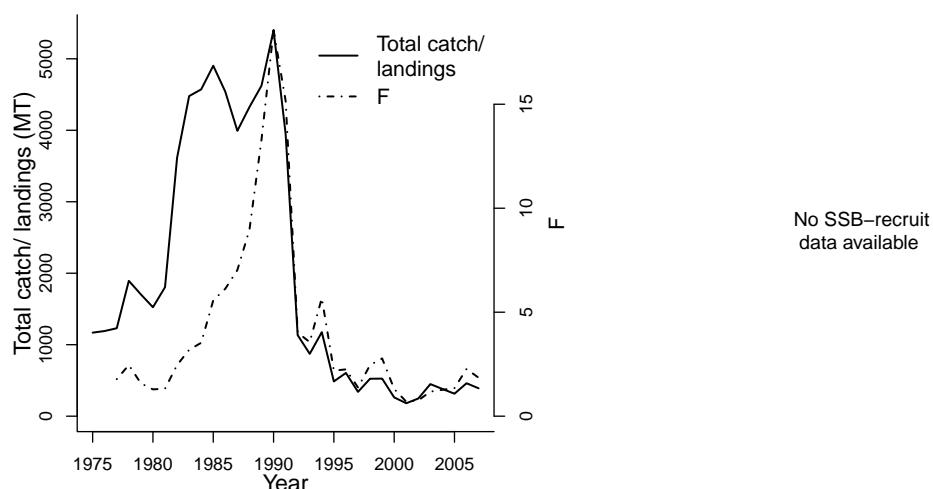
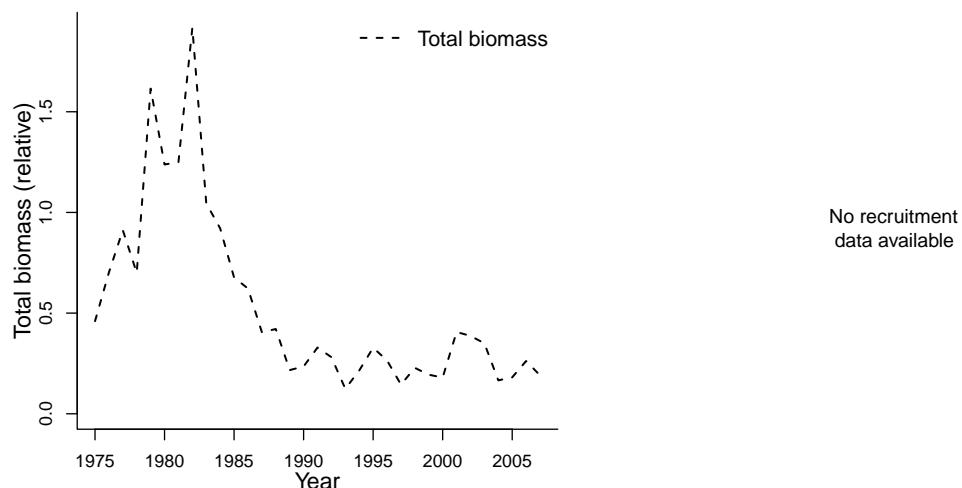
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Survey based stock assessment method
Publication year	2008
Timeseries span	1975-2007
Document	crd0815.pdf (pdf in database)
Recorder	HENDRICKSON
Date entered	2009-04-20
Date last loaded	2009-10-07
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			na	na
Parameter	Value	Units	Reference points	
L50-cm	21.2	cm	Parameter	Value
M-1/yr	0.2	1/yr		Units
REC-AGE			MSY-MT (TB)	500
SSB-AGE-yr			Bpa-relative	0.17
SSB-SEX-sex			Umsy-ratio (U)	1.47
TB-AGE-yr			Bmsy-relative	0.34
F-AGE-yr			$TB_{2007}/B_{msy}$	0.562
M				
A50-yr				

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year			1977	1975	1975
Maximum year			2007	2007	2007
Time series minimum			0.7	0.124	181.22
Time series maximum			18.56	1.917	5399.87
Units			ratio	relative	MT



# Assessment of Georges Bank winter flounder (*Pseudopleuronectes americanus*)

Assessment ID:NEFSC-WINFLOUN5Z-1982-2007-HENDRICKSON  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/330>

Area ID: USA-NMFS-5Z

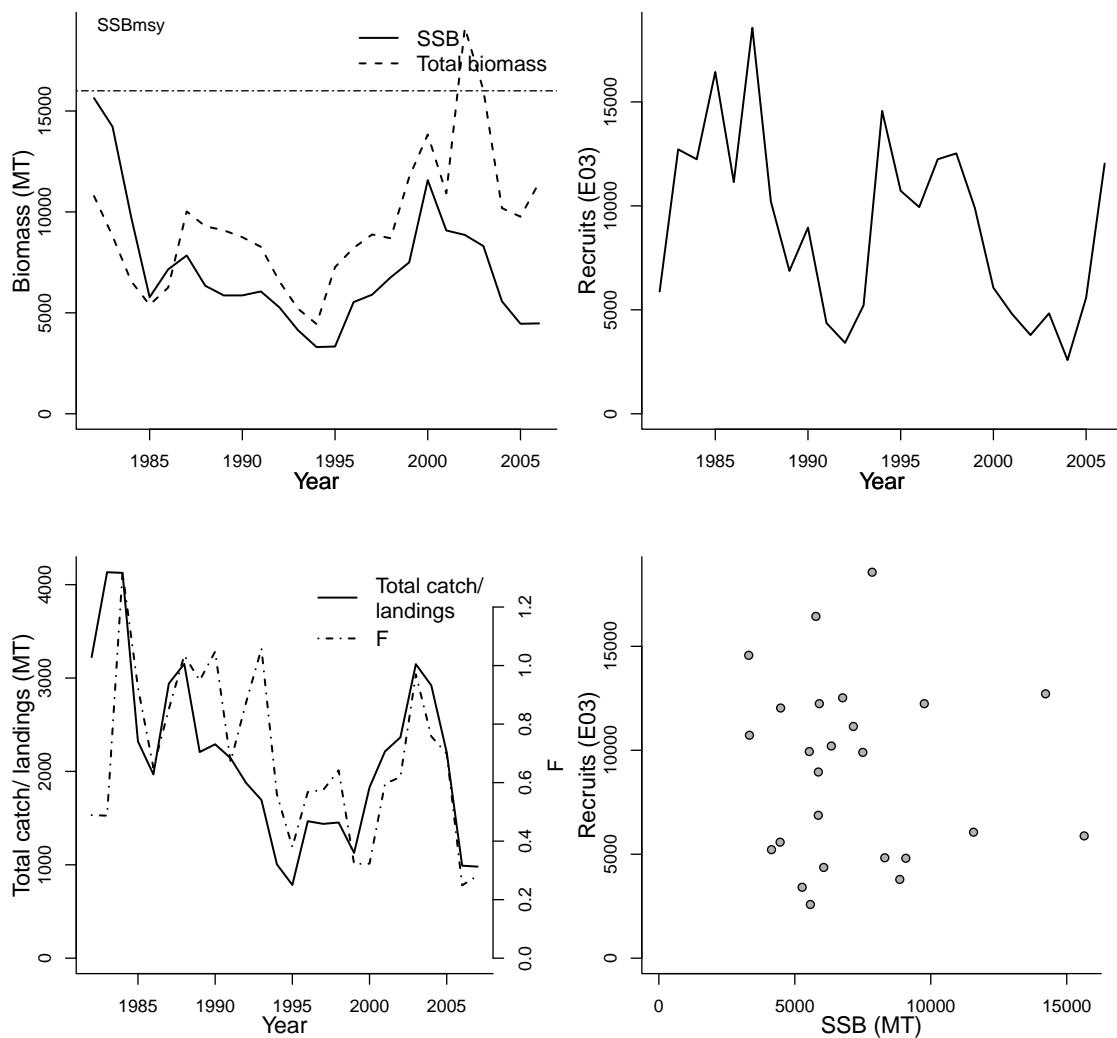
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Lisa Hendrickson
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	1982-2007
Document	garm3k.pdf (pdf in database)
Recorder	HENDRICKSON
Date entered	2009-04-20
Date last loaded	2011-03-02
QA/QC complete	YES
Date approved	2011-03-02

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

primary LME			secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf			na	na
Parameter	Value	Units	Reference points	
REC-AGE-yr	1	yr	Parameter	Value
F-AGE-yr-yr	4-6	yr-yr		Units
A50-yr	1.9	yr	F40%-1/T	0.26
L50-cm	24.9	cm	SSBmsy-MT (SSB)	16000
M-1/yr	0.2	1/yr	MSY-MT (TB)	3500
SSB-AGE-yr			Frebuild-1/T (F)	0.254
SSB-SEX-sex			SSB <sub>2006</sub> /SSB <sub>msy</sub>	0.280
TB-AGE-yr				
M				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1982	1982	1982	1982
Maximum year	2006	2006	2007	2006
Time series minimum	3305	2584	0.249	4447
Time series maximum	15641	18565	1.319	19121
Units	MT	E03	1/T	MT



# Assessment of Gulf of Maine winter flounder (*Pseudopleuronectes americanus*)

Assessment ID:NEFSC-WINFLOUND5Y-1982-2008-NITSCHKE  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/316>

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	Unknown
Publication year	2008
Timeseries span	1982-2008
Document	crd0815.pdf (pdf in database)
Recorder	NITSCHKE
Date entered	2009-04-22
Date last loaded	2009-05-26
QA/QC complete	NO
Date approved	

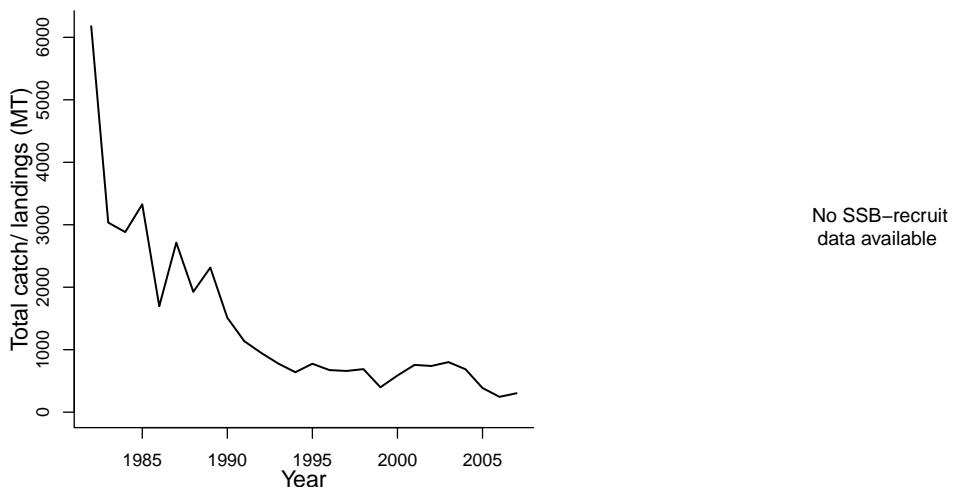
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
A50-yr	3.5	yr
L50-cm	29	cm
M-1/yr	0.2	1/yr
REC-AGE		Reference points
SSB-AGE-yr		Parameter
SSB-SEX-sex		Value
TB-AGE-yr		Units
F-AGE-yr		
M		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year					1982
Maximum year					2007
Time series minimum					245.63
Time series maximum					6177.82
Units					MT

No biomass data available

No recruitment data available



# Assessment of Southern New England /Mid Atlantic winter flounder (*Pseudopleuronectes americanus*)

Assessment ID:NEFSC-WINFLOUNSNEMATL-1940-2007-TERCEIRO  
 Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/117>

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	VPA/ADPAT version 2.3.2 NOAA Fisheries
Publication year	2008
Timeseries span	1940-2007
Document	NMFS-SNEMATL-Pseudopleuronectesamericanus-2008.pdf (pdf not in database)
Recorder	TERCEIRO
Date entered	2008-12-03
Date last loaded	2010-03-16
QA/QC complete	NO
Date approved	

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

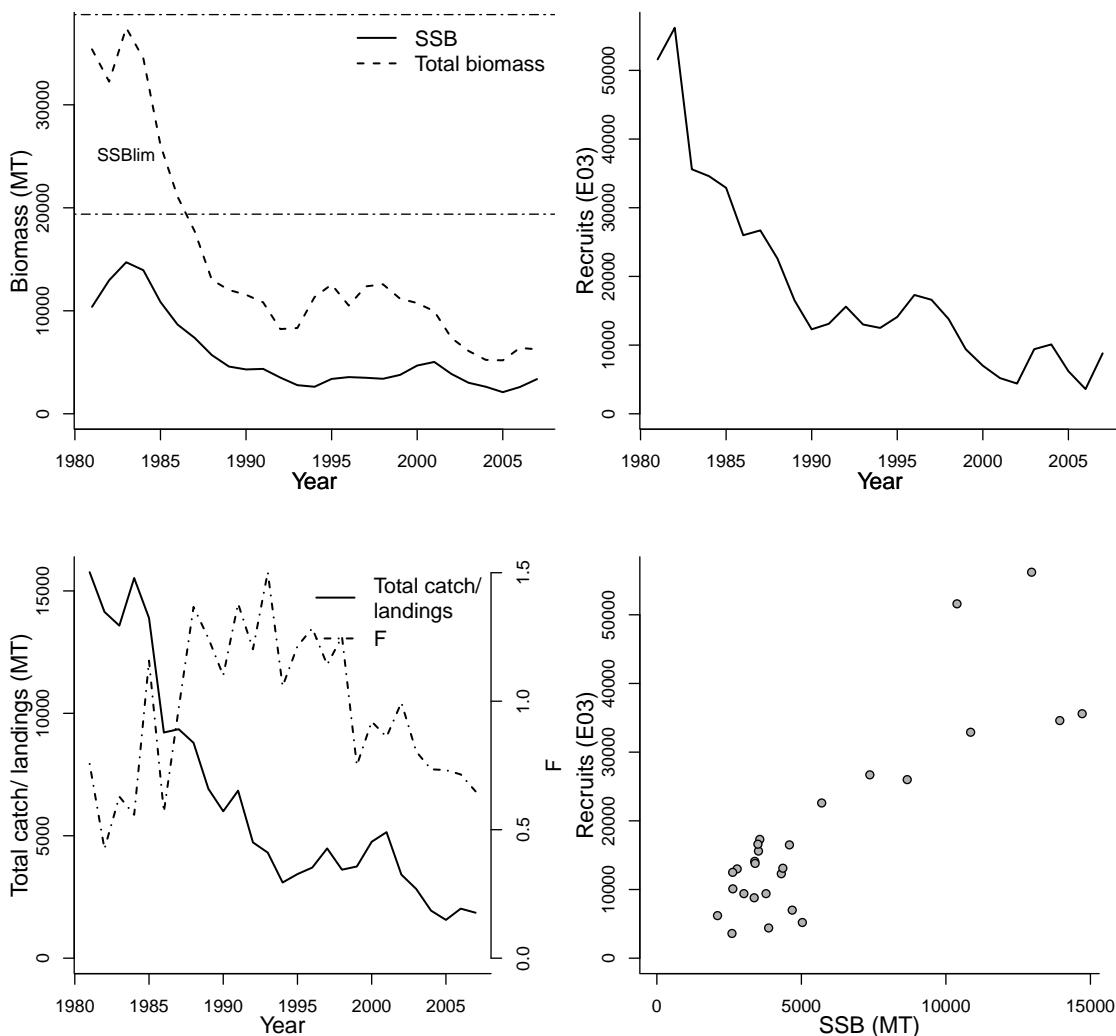
primary LME			secondary LME		tertiary LME
7 - Northeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	0	sex	Parameter	Value	Units
REC-AGE-yr	1	yr	F40%-1/T	0.248	1/T
F-AGE-yr-yr	4-5	yr-yr	SSB <sub>m</sub> s <sub>y</sub> -MT (SSB)	38761	MT
TB-AGE-yr	1+	yr	MSY-MT (TB)	9742	MT
A50-yr	3	yr	SSBlim-MT (SSB)	19381	MT
L50-cm	AVAILABLE	cm	SSB <sub>2007</sub> /SSB <sub>lim</sub>	0.174	
M-1/T	0.2	1/T	SSB <sub>2007</sub> /SSB <sub>m</sub> s <sub>y</sub>	0.087	
SSB-AGE-yr					
M					

Assessment of Southern New England /Mid Atlantic winter flounder  
(*Pseudopleuronectes americanus*)

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Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1981	1981	1981	1981	1981
Maximum year	2007	2007	2007	2007	2007
Time series minimum	2098.34	3600	0.425	5188	1563
Time series maximum	14714.39	56200	1.502	37479	15764
Units	MT	E03	1/T	MT	MT



# Assessment of Gulf of Maine witch flounder (*Glyptocephalus cynoglossus*)

Assessment ID:NEFSC-WITFLOUN5Y-1982-2008-WIGLEY

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/114>

Area ID: USA-NMFS-5Y

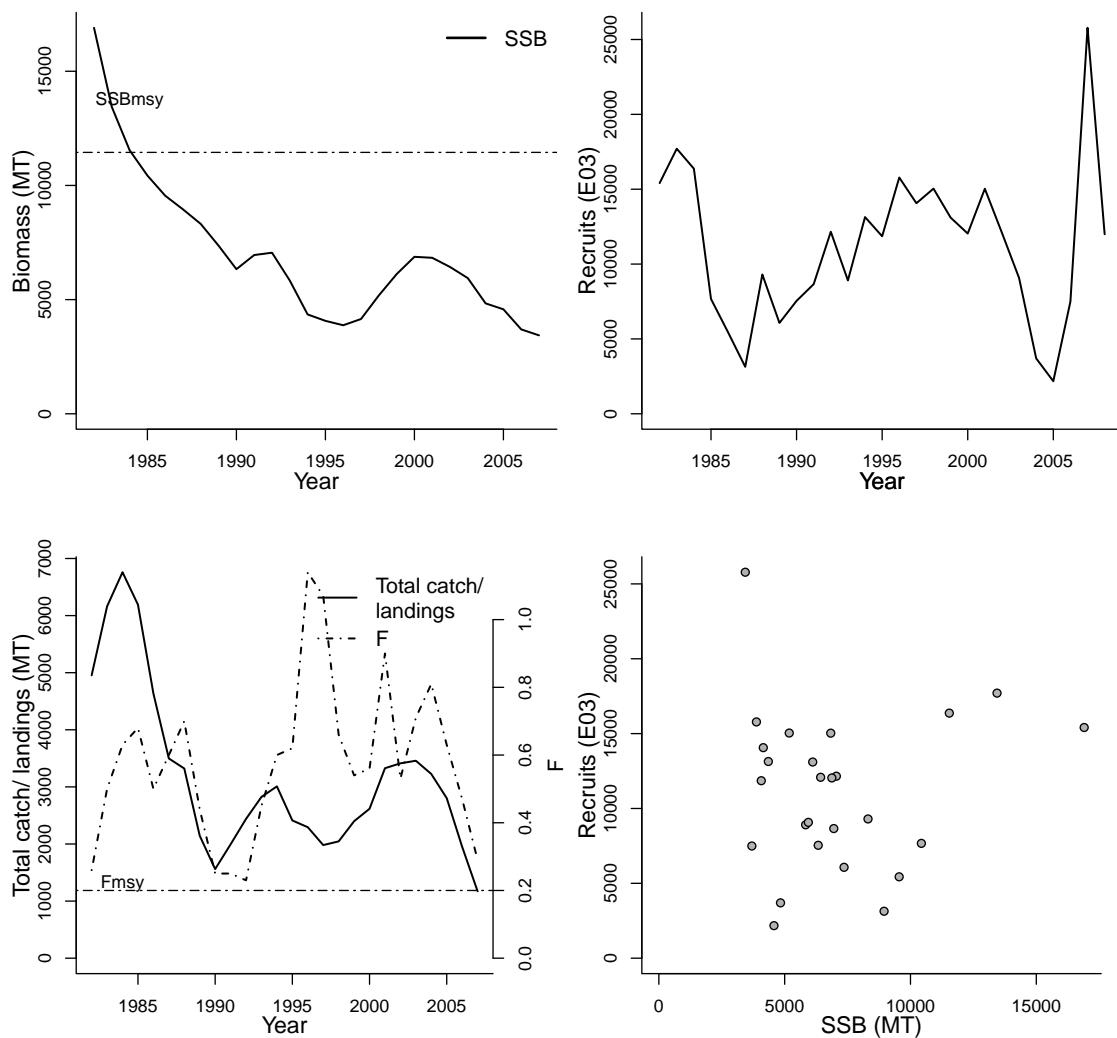
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Virtual Population Analysis
Publication year	2008
Timeseries span	1982-2008
Document	crd0815.pdf (pdf in database)
Recorder	WIGLEY
Date entered	2008-12-10
Date last loaded	2010-07-27
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	Reference points		
SSB-AGE-yr	AVAILABLE	yr	Parameter	Value	Units
SSB-SEX-sex	NA	sex	Fmsy-1/T (F)	0.20	1/T
REC-AGE-yr	3	yr	F40%-1/T	0.20	1/T
F-AGE-yr-yr	AVAILABLE	yr-yr	SSBmsy-MT (SSB)	11447	MT
M-1/T	0.15	1/T	MSY-MT (TB)	2352	MT
TB-AGE-yr			Frebuild-1/T (F)	0.194	1/T
M			$F_{2007}/F_{msy}$	1.450	
A50-yr			$SSB_{2007}/SSB_{msy}$	0.300	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1982	1982	1982	1982
Maximum year	2007	2008	2007	2007
Time series minimum	3434	2175	0.23	1171.56
Time series maximum	16903	25781	1.14	6759.74
Units	MT	E03	1/T	MT



# Assessment of Gulf of Maine / Cape Hatteras winter skate (*Leucoraja ocellata*)

Assessment ID:NEFSC-WSKAT5YCHATT-1967-2005-SOSEBEE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/434>

Area ID: USA-NMFS-5YCHATT

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Temporal indices derived from scientific survey data
Publication year	2007
Timeseries span	1967-2005
Document	skates2007.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-21
Date last loaded	2009-12-14
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
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

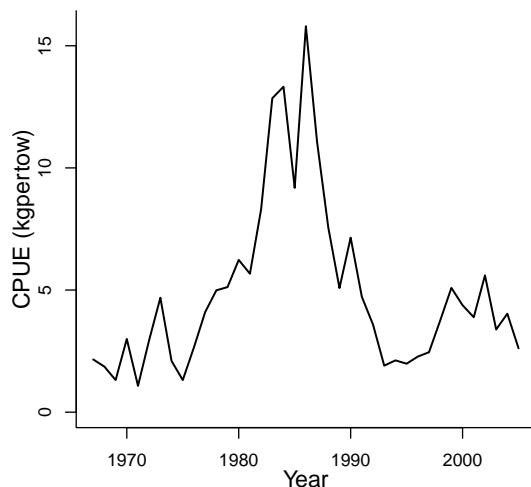
Reference points	Parameter	Value	Units

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

No biomass data available

No recruitment data available

No SSB-recruit data available



# Assessment of Cape Cod / Gulf of Maine yellowtail flounder (*Limanda ferruginea*)

Assessment ID:NEFSC-YELLCCODGOM-1935-2008-LEGAULT

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/111>

Area ID: USA-NMFS-CCOD5Y

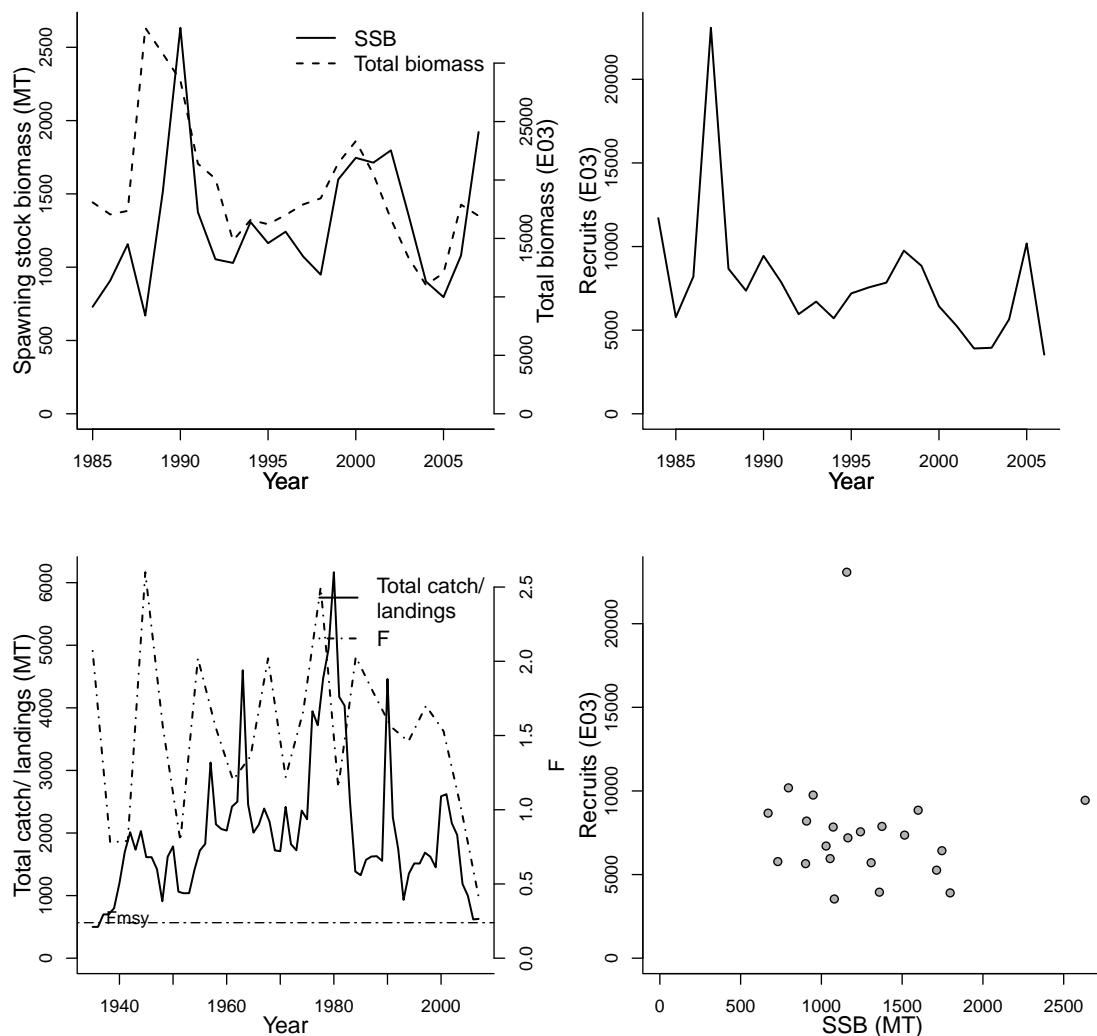
General assessment details.

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-CCGOM-Limandaferuginea-2008.pdf (pdf not in database)
Recorder	LEGAULT
Date entered	2008-11-26
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	Reference points	
SSB-SEX-sex	NA	sex	Parameter	Value
REC-AGE-yr	1	yr	Fmsy-1/T (F)	0.239
F-AGE-yr-yr	4+	yr-yr	F40%-1/T	0.239
A50-yr	2	yr	SSBmsy-MT (SSB)	7790
SSB-AGE-yr			MSY-MT (TB)	1720
TB-AGE-yr			Frebuild-1/T (F)	0.238
M			$F_{2007}/F_{msy}$	1.732
L50-cm			$SSB_{2007}/SSB_{msy}$	0.247

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1985	1984	1985	1985	1935
Maximum year	2007	2006	2007	2007	2007
Time series minimum	670	3540	0.414	11018	500
Time series maximum	2633	23080	2.6	33021	6167
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

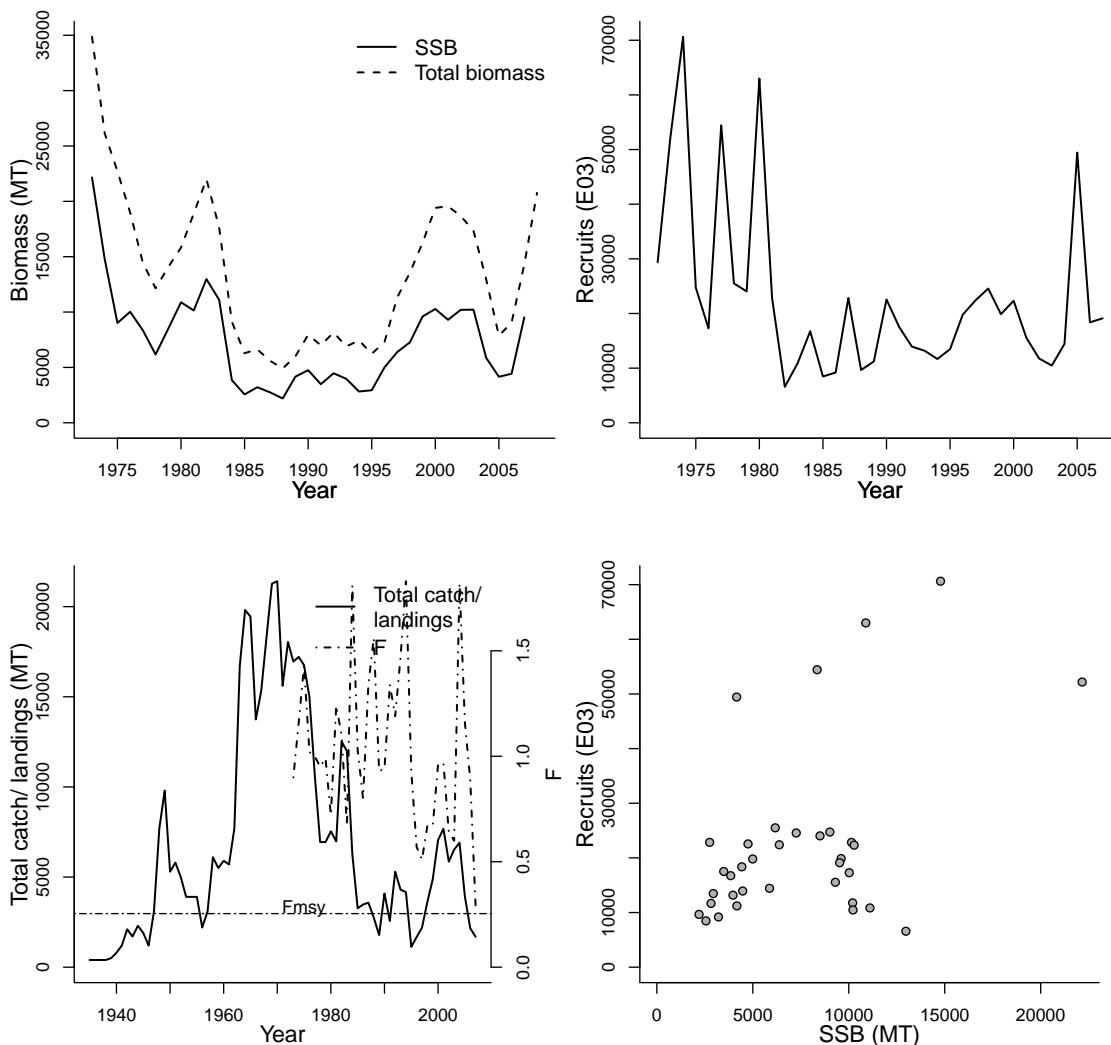
General assessment details.

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-Limandaferuginea-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	Reference points	
SSB-SEX-sex	NA	sex	Parameter	Value
REC-AGE-yr	1	yr	Fmsy-1/T (F)	0.254
F-AGE-yr-yr	4+	yr-yr	F40%-1/T	0.254
A50-yr	2	yr	SSBmsy-MT (SSB)	43200
SSB-AGE-yr			MSY-MT (TB)	9400
TB-AGE-yr			Frebuild-1/T (F)	0.202
M			$F_{2007}/F_{msy}$	1.142
L50-cm			$SSB_{2007}/SSB_{msy}$	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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/14>

Area ID: USA-NMFS-SNEMATL

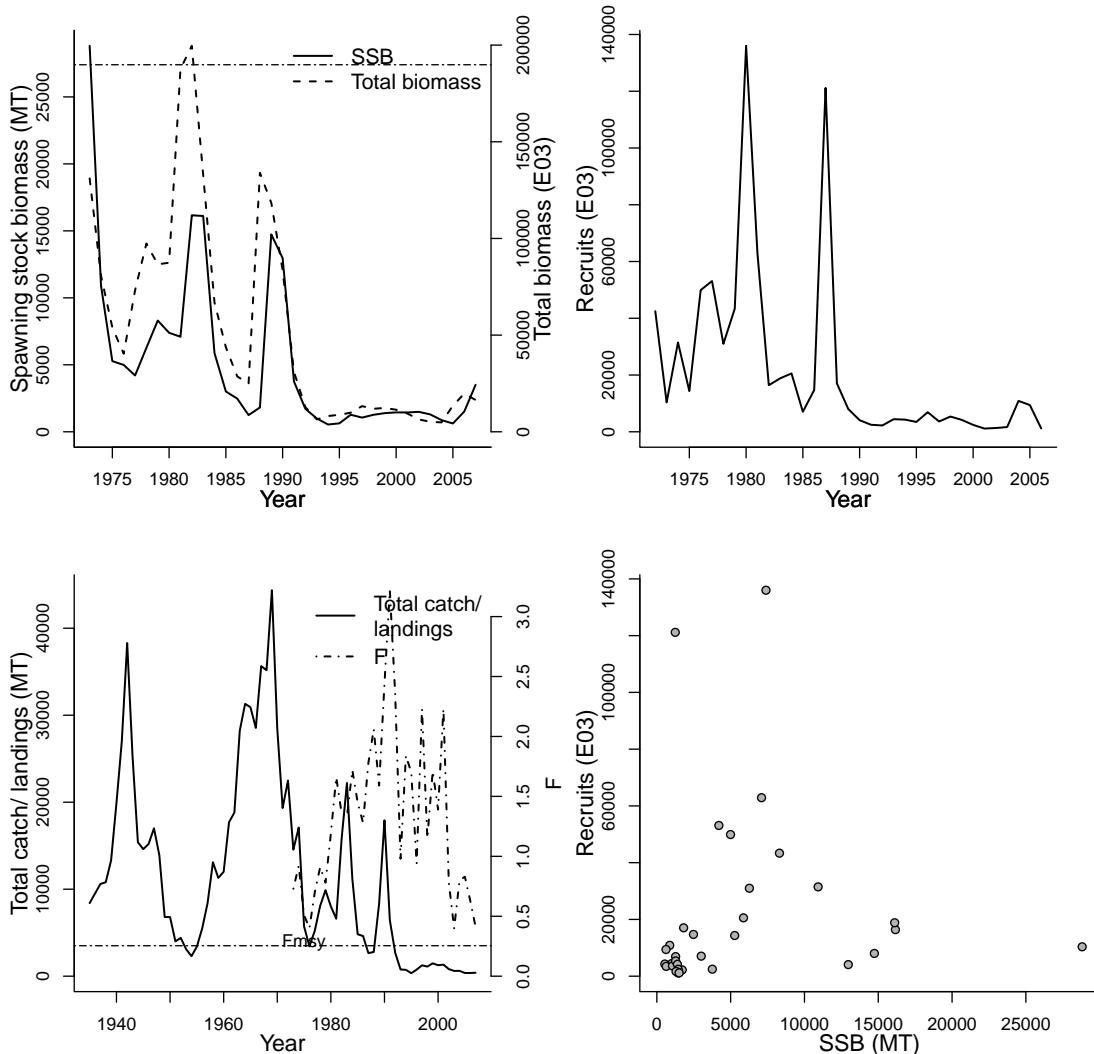
General assessment details.

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-Limandaferuginea-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	Reference points	
SSB-SEX-sex	NA	sex	Parameter	Value
REC-AGE-yr	1	yr	Fmsy-1/T (F)	0.254
F-AGE-yr-yr	4-6+	yr-yr	F40%-1/T	0.254
A50-yr	2	yr	SSBmsy-MT (SSB)	27400
SSB-AGE-yr			MSY-MT (TB)	6100
TB-AGE-yr			Frebuild-1/T (F)	0.08
M			$F_{2007}/F_{msy}$	1.614
L50-cm			$SSB_{2007}/SSB_{msy}$	0.128

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1973	1972	1973	1973
Maximum year	2007	2006	2007	2007
Time series minimum	542	1133	0.4	4853
Time series maximum	28815	136011	3.22	199647
Units	MT	E03	1/T	E03



# Assessment of New Zealand australian salmon

## (*Arripis trutta*)

Assessment ID:NIWA-AUSSALMONNZ-1975-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/419>

Area ID: New Zealand-MFish-NZ

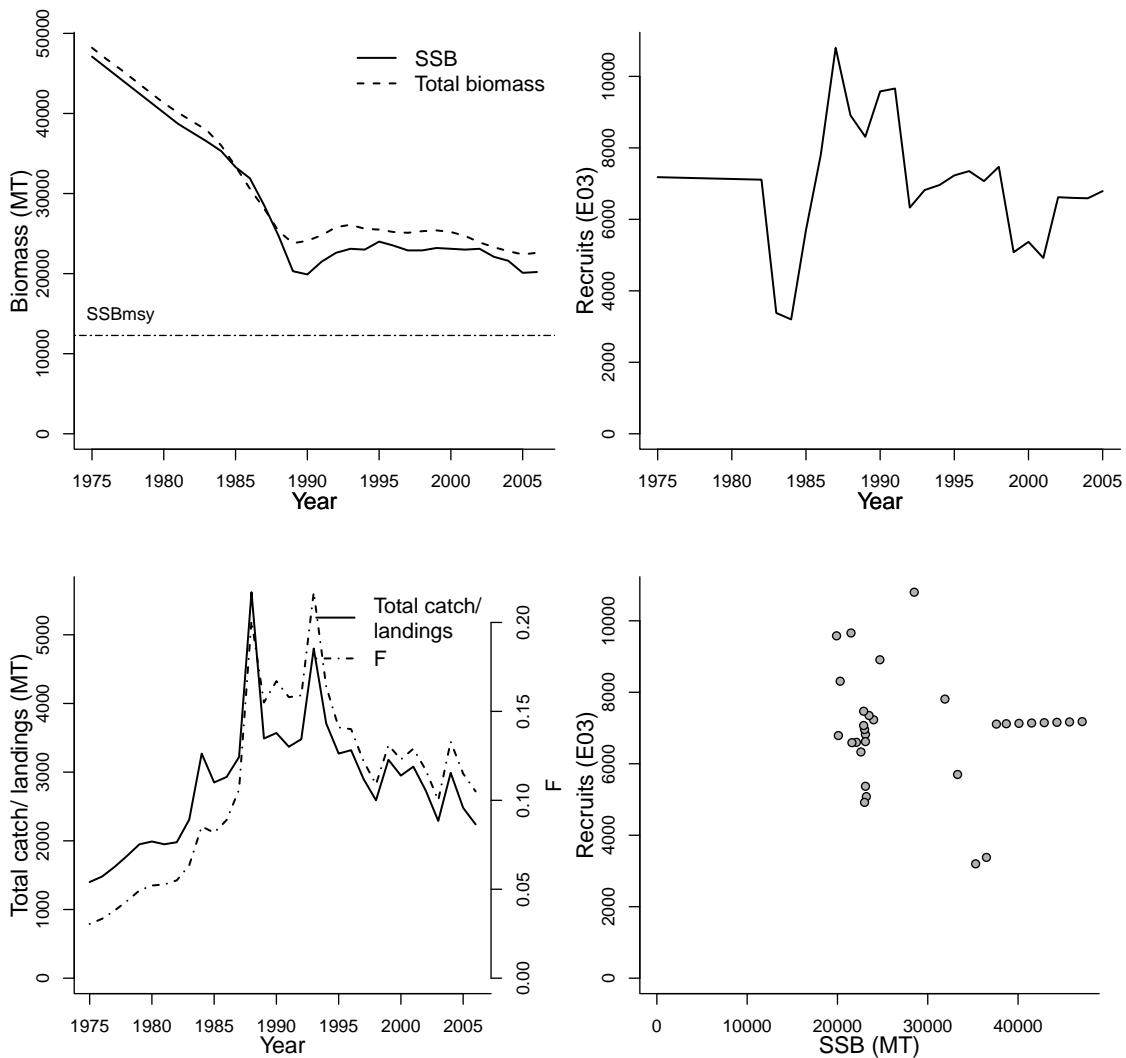
General assessment details.

Detail	Value
Management body	MFish
Assessment group	National Institute of Water and Atmospheric Research
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1975-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

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

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			46 - New Zealand Shelf	na	na
REC-AGE-yr	1	yr			
TB-AGE-yr	1+	yr			
A50-yr	4	yr			
M-1/yr	0.18	1/yr			
SSB-AGE-yr					
SSB-SEX-sex					
F-AGE-yr					
M					
L50-cm					
			Reference points		
Parameter			Parameter	Value	Units
			Fmsy-1/yr (F)	0.32	1/yr
			SSBmsy-MT (SSB)	12280.7293248	MT
			MSY-MT (TB)	3371.82	MT
			SSB0-MT (SSB)	47128.15	MT
			BH-h-dimless	0.875	dimless
			$F_{2006}/F_{msy}$	0.328	
			$SSB_{2006}/SSB_{msy}$	1.645	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1975	1975	1975	1975
Maximum year	2006	2005	2006	2006
Time series minimum	19900	3200	0.0305	22400
Time series maximum	47100	10800	0.217	48200
Units	MT	E03	1/yr	MT



# Assessment of New Zealand Mid East Coast orange roughy (*Hoplostethus atlanticus*)

Assessment ID:NIWA-OROUGHYNZMEC-1981-2004-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/219>

Area ID: New Zealand-MFish-NZMEC

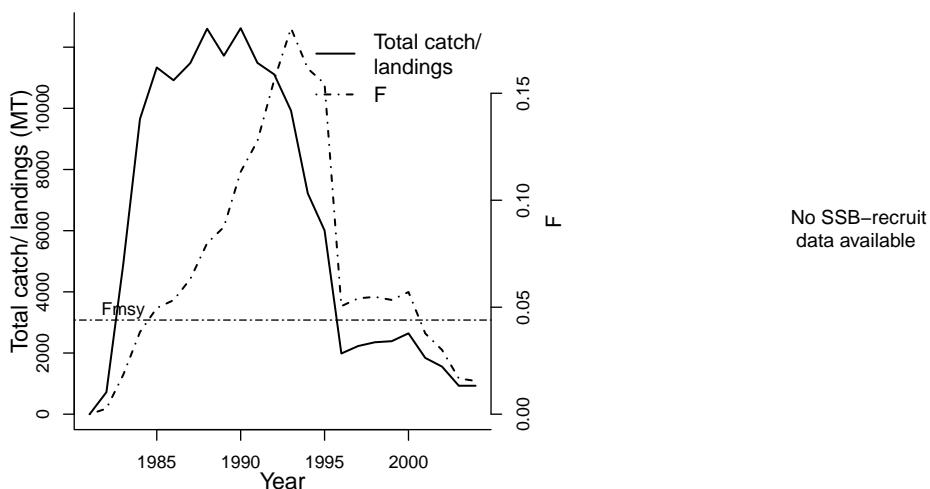
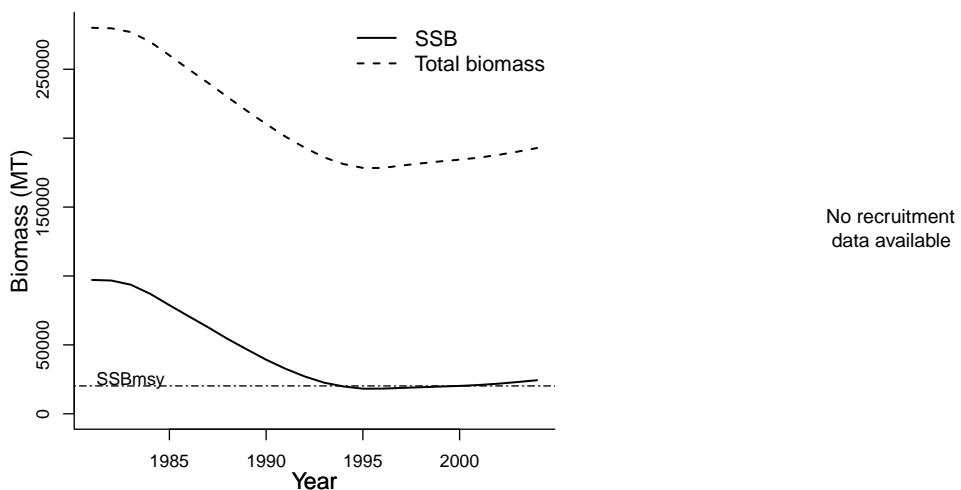
## General assessment details.

Detail	Value
Management body	MFish
Assessment group	National Institute of Water and Atmospheric Research
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1981-2004
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-24
Date last loaded	2010-07-20
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
46 - New Zealand Shelf			na	na
Parameter	Value	Units	Reference points	
REC-AGE-yr	1	yr	Parameter	Value
TB-AGE-yr	1	yr	Fmsy-1/yr (F)	0.044
A50-yr	31.3	yr	SSBmsy-MT (SSB)	20213.00407
M-1/yr	0.045	1/yr	MSY-MT (TB)	2598.07907
SSB-AGE-yr			SSBO-MT (SSB)	97126.1
SSB-SEX-sex			BH-h-dimless	0.75
F-AGE-yr			$F_{2004}/F_{msy}$	0.353
M			$SSB_{2004}/SSB_{msy}$	1.204
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1981		1981	1981
Maximum year	2004		2004	2004
Time series minimum	18208		0	178351
Time series maximum	97126.3		0.180408935	280089
Units	MT		1/yr	MT



# Assessment of Atlantic atlantic menhaden (*Brevoortia tyrannus*)

Assessment ID:NMFS-MENATLAN-1940-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/399>

Area ID: USA-NMFS-Atlantic

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	NOAA Fisheries - National Marine Fisheries Service
Assessment authors	Anonymous
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2006
Timeseries span	1940-2005
Document	Atl.Menhaden-ASMFC-2006.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-06-10
Date last loaded	2010-07-27
QA/QC complete	NO
Date approved	

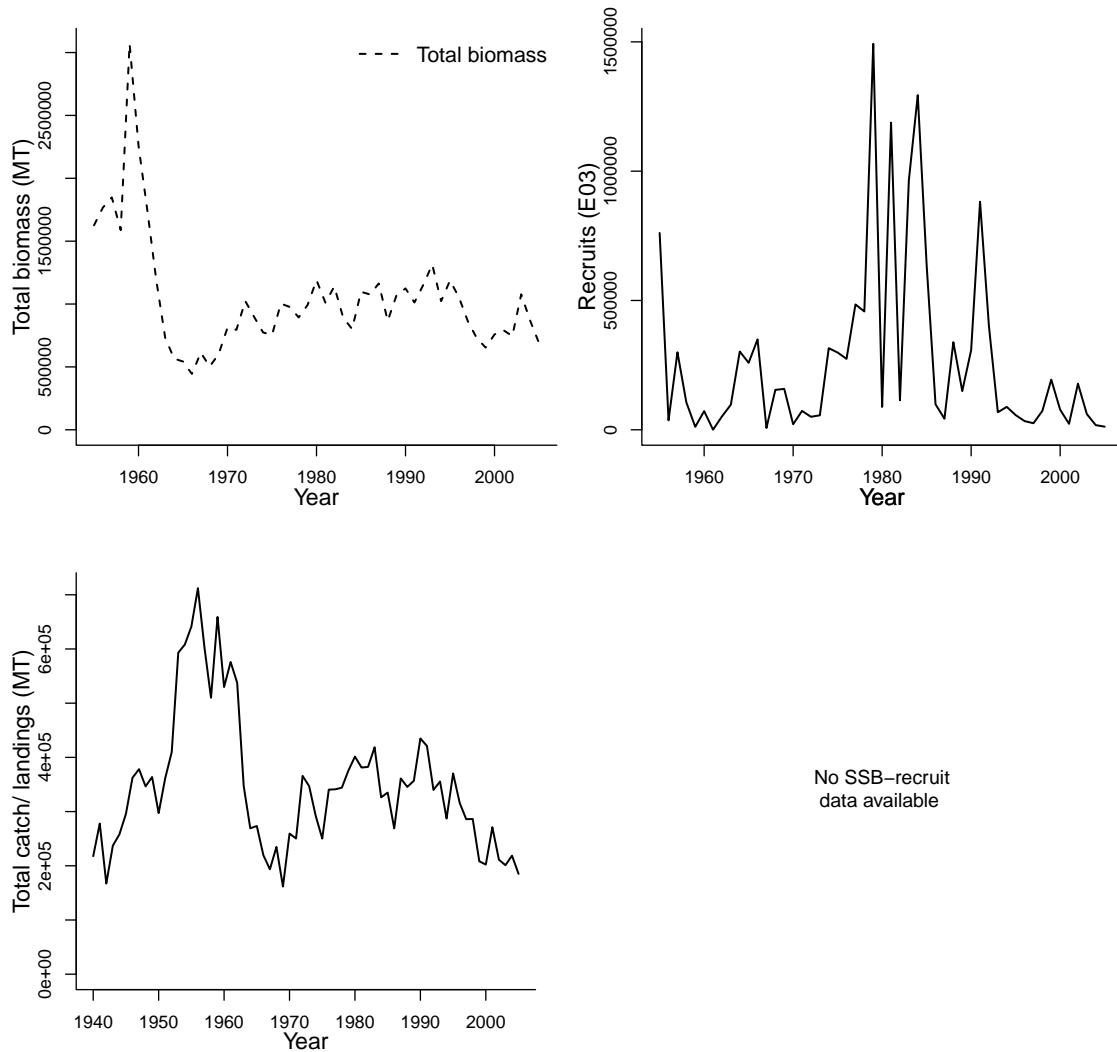
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	6 - Southeast U.S. Continental Shelf	8 - Scotian Shelf
Parameter	Value	Units
REC-AGE-yr	0	yr
F-AGE-yr-yr	2+	yr-yr
TB-AGE-yr	2+	yr
M-1/yr	0.5	1/yr
NATMORT-1/yr	0.5	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
Fref-1/T (F)	0.5	1/T
NATMORT-1/yr (M)	0.5	1/yr

Time series minima and maxima				
	SSB	R	F	TB
Minimum year		1955		1955
Maximum year		2005		2005
Time series minimum	300		444184.46	161600
Time series maximum	1492500		3069552.86	712100
Units	E03		MT	MT



# Assessment of Pacific Coast arrowtooth flounder (*Reinhardtius stomias*)

Assessment ID:NWFSC-ARFLOUNDPCOAST-1916-2007-BRANCH  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/22>

Area ID: USA-NMFS-PCOAST

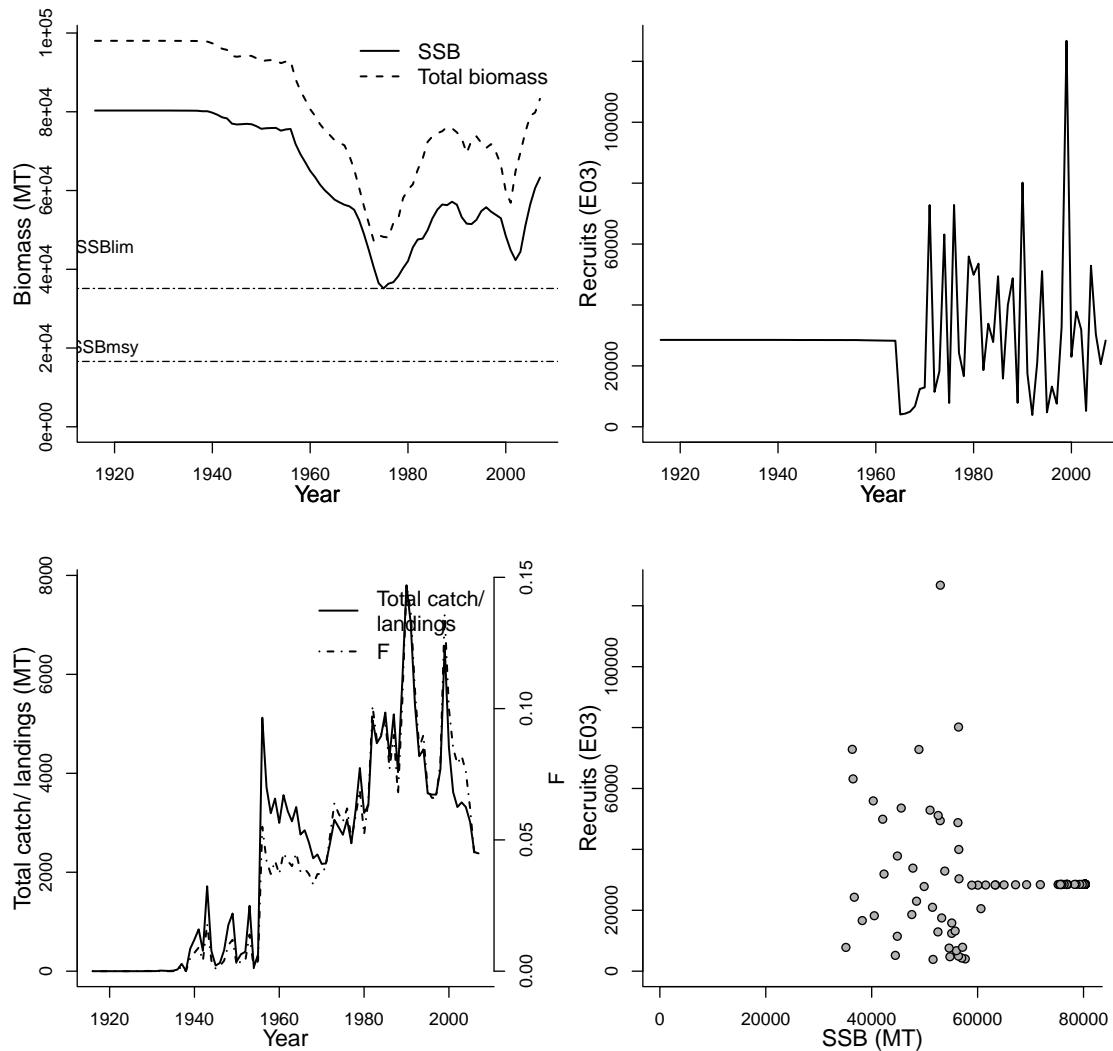
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Kaplan, I.C.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1916-2007
Document	NWFSC-ARFLOUNDPCOAST-2007-Arrowtooth flounder.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2009-04-27

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

primary LME	secondary LME	tertiary LME
3 - California Current	2 - Gulf of Alaska	na
Reference points		
Parameter	Value	Units
SSBlim-MT (SSB)	35129	MT
SSBmsy-MT (SSB)	16593	MT
Fmsy-1/yr (F)	0.21	1/yr
SSB0-MT (SSB)	80313	MT
R0-E03 (R )	28528	E03
SSBtarget-MT (SSB)	30780	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.11	1/yr
SPRtarget-ratio (SPR)	0.4	ratio
MSY-MT (TB)	5844	MT
BH-h-dimless	0.902	dimless
$SSB_{2007}/SSB_{lim}$	1.802	
$F_{2006}/F_{msy}$	0.210	
$SSB_{2007}/SSB_{msy}$	3.815	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1916	1916	1916	1916
Maximum year	2007	2007	2006	2007
Time series minimum	35128.8	3867.56	0	47228.2
Time series maximum	80313.5	126747	0.147	98022.2
Units	MT	E03	1/yr	MT



# Assessment of Pacific Coast blackgill rockfish (*Sebastodes melanostomus*)

Assessment ID:NWFSC-BGROCKPCOAST-1950-2005-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/336>

Area ID: USA-NMFS-PCOAST

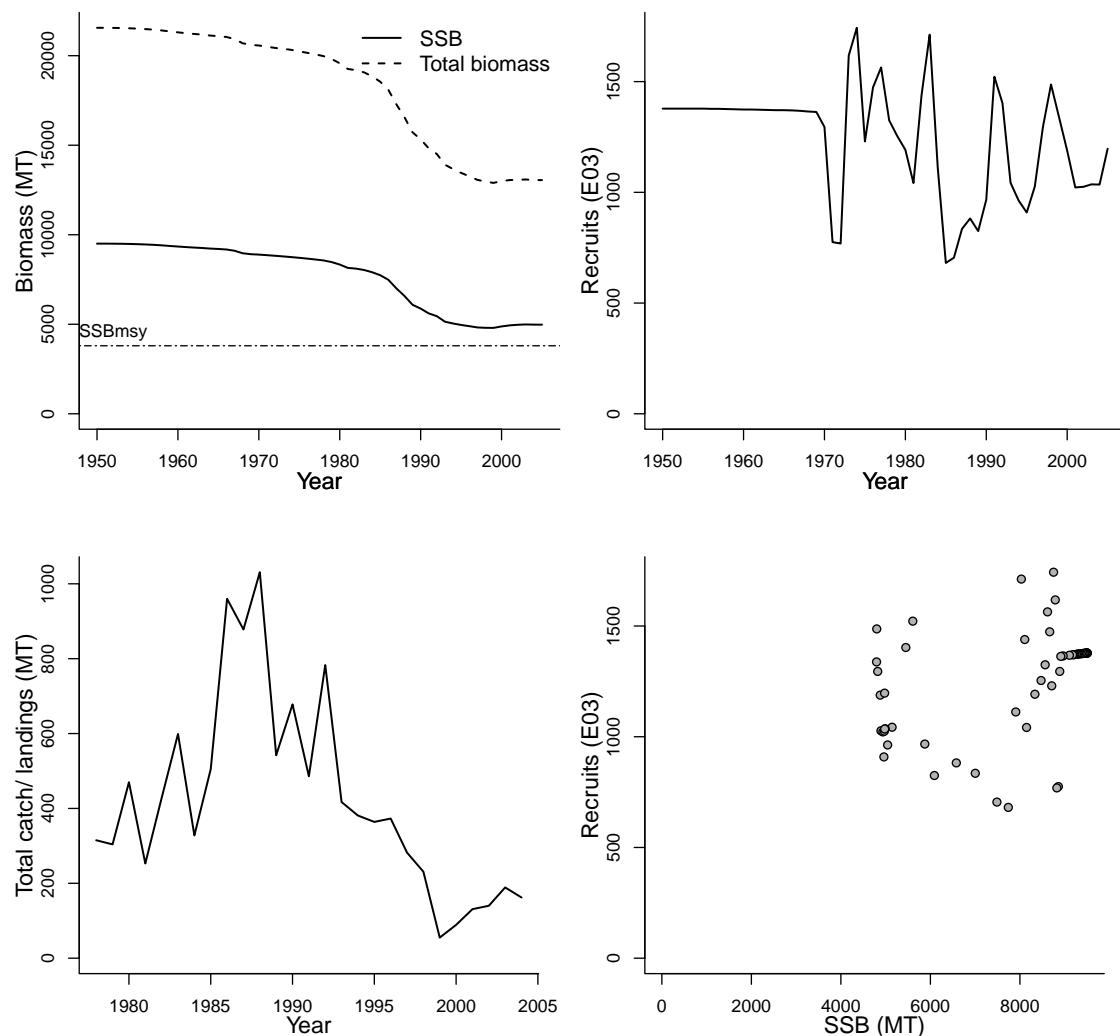
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Hesler, Thomas
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1950-2005
Document	2005-SAFE-Wcblackgill.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-19
Date last loaded	2009-11-10
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
3 - California Current			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	1	sex	SSBmsy-MT (SSB)	3799	MT
REC-AGE-yr	0	yr	MSY-MT (TB)	223	MT
F-AGE-yr-yr	0+	yr-yr	Umsy-ratio (U)	0.029	ratio
TB-AGE-yr	0+	yr	SSB0-MT (SSB)	9.503	MT
A50-yr	20	yr	B0-MT	21558	MT
SSB-AGE-yr			$SSB_{2005}/SSB_{msy}$	1.310	
M					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1950	1950		1950
Maximum year	2005	2005		2005
Time series minimum	4797	681		12896
Time series maximum	9503	1743		21558
Units	MT	E03	MT	MT



# Assessment of Northern Pacific Coast black rockfish (*Sebastodes melanops*)

Assessment ID:NWFSC-BLACKROCKNPCOAST-1914-2006-BRANCH  
 Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/38>

Area ID: USA-NMFS-NPCOAST

General assessment details.

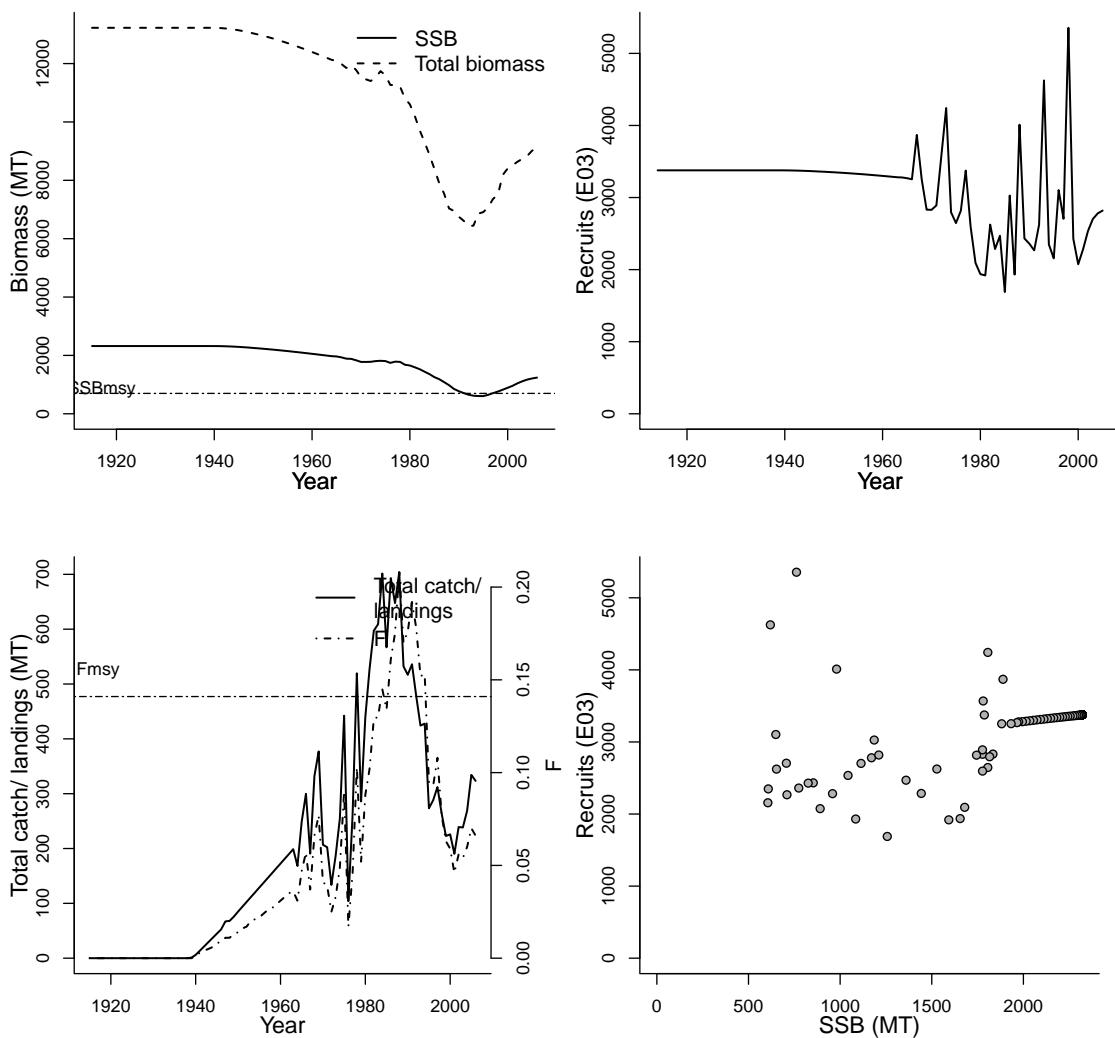
Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Wallace F.R.
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1914-2006
Document	NWFSC-BLACKROCKNPCOAST-2007-Black rockfish NOR WA.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-20
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2009-04-27

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

primary LME			secondary LME	tertiary LME
3 - California Current			na	na
			Reference points	
Parameter	Value	Units	Parameter	Value
BH-h-dimless	0.6	dimless		
SSBlim-E06larvae	606	E06larvae		
SSBmsy-E06lar (SSB)	698.62	E06larvae		
Fmsy-1/yr (F)	0.141	1/yr		
SSBO-MT (SSB)	2321	MT		
R0-E03 (R )	3377	E03		
SSBtarget-MT (SSB)	928.4	MT		
SSBmin-ratio (SSB)	0.25	ratio		
Ftarget-1/yr (F)	0.065	1/yr		
SPRtarget-ratio (SPR)	0.4	ratio		
MSY-MT (TB)	700	MT		
$SSB_{2006}/SSB_{lim}$	2.045			
$F_{2006}/F_{msy}$	0.468			
$SSB_{2006}/SSB_{msy}$	1.774			

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1915	1914	1915	1915	1915
Maximum year	2006	2005	2006	2006	2006
Time series minimum	605.66	1688.87	0	6437	0
Time series maximum	2320.71	5354.79	0.208	13226	703.9
Units	MT	E03	1/yr	MT	MT



# Assessment of Southern Pacific Coast black rockfish (*Sebastodes melanops*)

Assessment ID:NWFSC-BLACKROCKSPCOAST-1915-2007-BRANCH  
 Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/37>

Area ID: USA-NMFS-SPCOAST

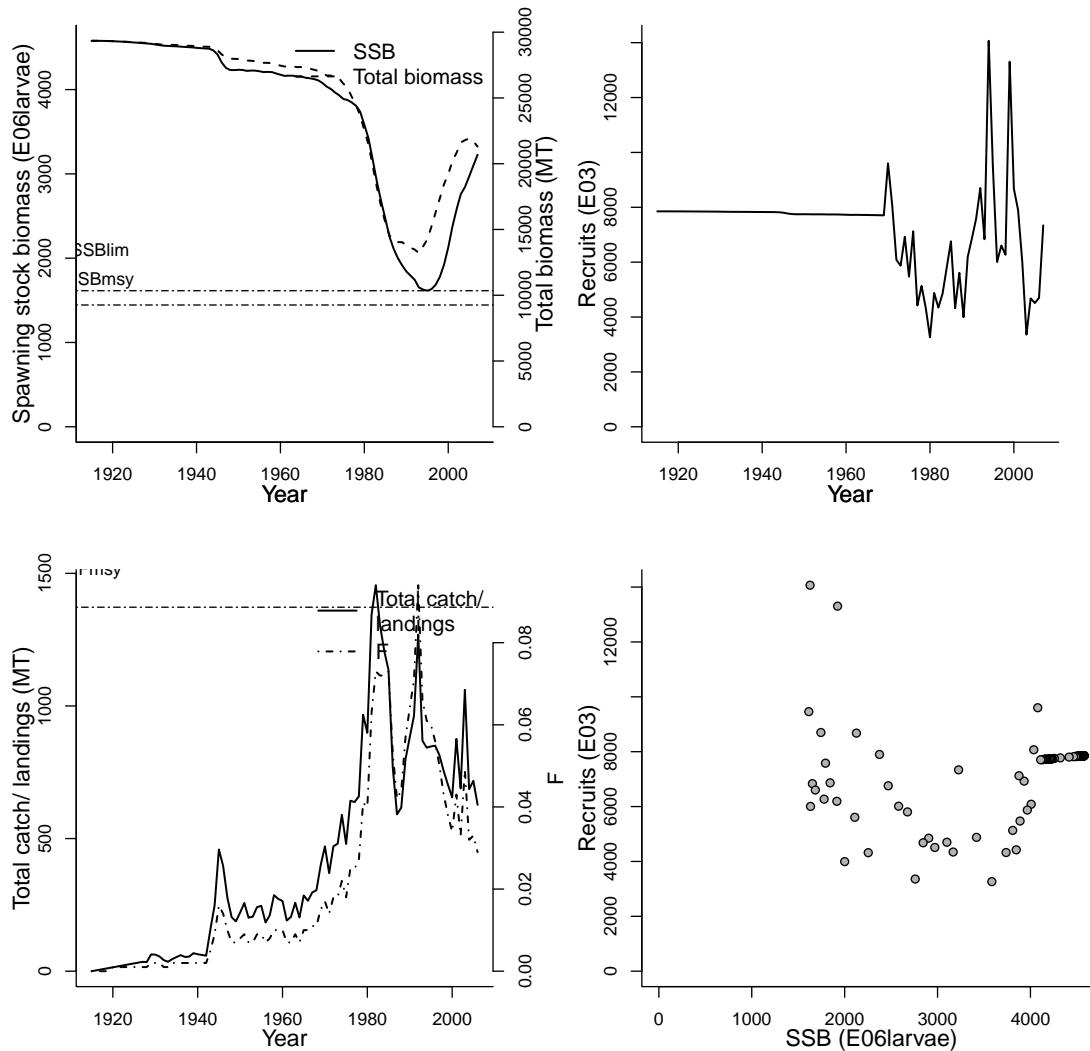
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Sampson, D.B.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1915-2007
Document	NWFSC-BLACKROCKSPCOAST-2007-Black rockfish OR CA.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2009-05-01

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

primary LME			secondary LME	tertiary LME
3 - California Current			na	na
			Reference points	
Parameter	Value	Units	Parameter	Value
BH-h-dimless	0.6	dimless		
SSBlim-MT (SSB)	1614	MT		
SSBmsy-E06lar (SSB)	1444.6	E06larvae		
Fmsy-1/yr (F)	0.08864	1/yr		
SSB0-E06lar (SSB)	4578	E06larvae		
RO-E03 (R )	7852	E03		
SSBtarget-MT (SSB)	1831.4	MT		
SSBmin-ratio (SSB)	0.25	ratio		
Ftarget-1/yr (F)	0.07227	1/yr		
SPRtarget-ratio (SPR)	0.5	ratio		
MSY-MT (TB)	1064.6	MT		
$SSB_{2007}/SSB_{lim}$	1.999			
$F_{2006}/F_{msy}$	0.327			
$SSB_{2007}/SSB_{msy}$	2.233			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1915	1915	1915	1915	1915
Maximum year	2007	2007	2006	2007	2006
Time series minimum	1614.2	3264	0	13206	0
Time series maximum	4578.5	14068	0.094	29344	1455.3
Units	E06larvae	E03	1/yr	MT	MT



# Assessment of California blue rockfish (*Sebastes mystinus*)

Assessment ID:NWFSC-BLUEROCKCAL-1916-2007-BRANCH

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/39>

Area ID: USA-NMFS-CAL

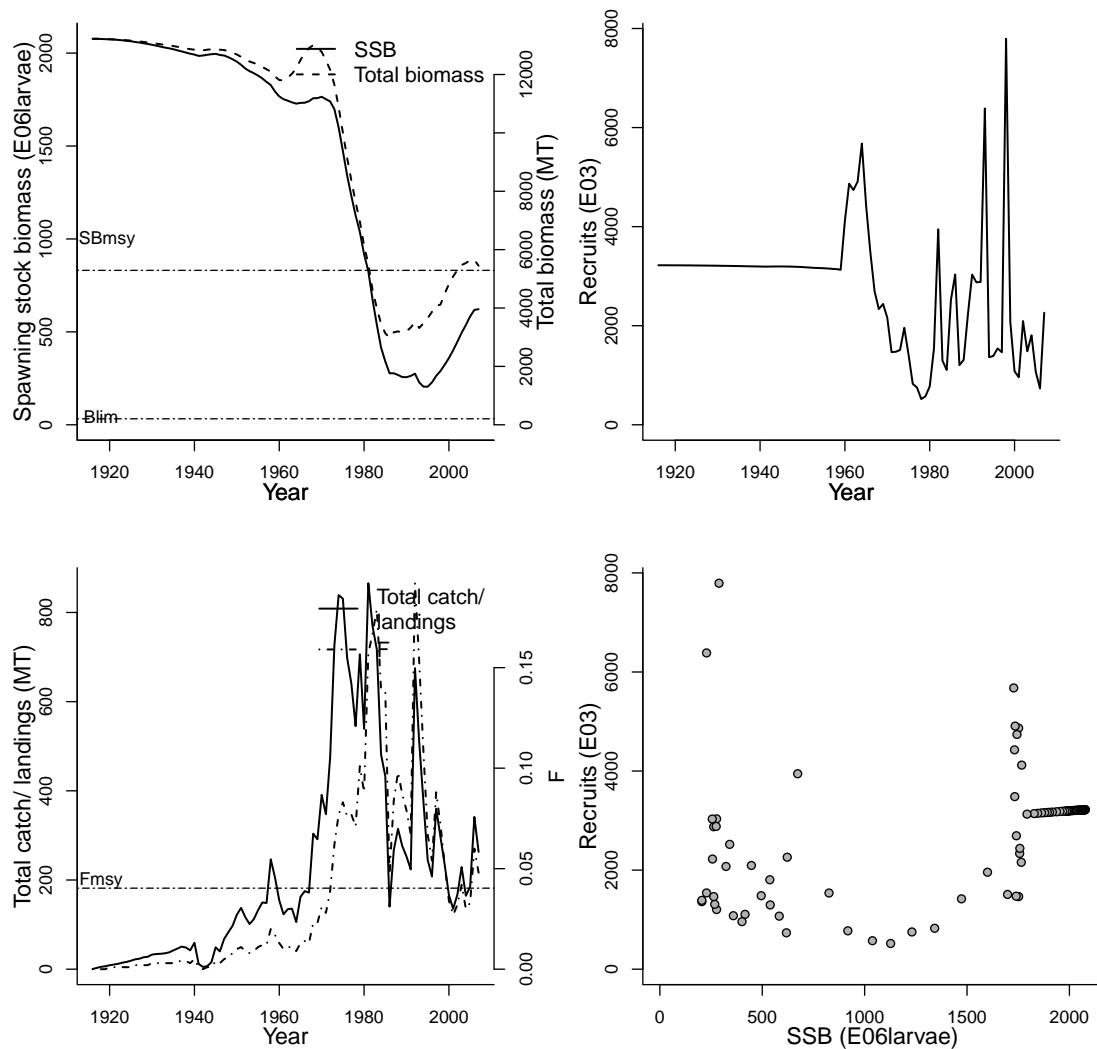
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Key, M
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1916-2007
Document	NWFSC-BLUEROCKCAL-2007-Blue rockfish CA.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-21
Date last loaded	2009-06-02
QA/QC complete	YES
Date approved	2009-06-02

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

primary LME			secondary LME		tertiary LME	
3 - California Current			na	na		
Parameter	Value	Units	Reference points			Units
			Blim-MT (TB)	205	MT	
SSB-AGE-yr	6+	yr	SSBmsy-E06lar (SSB)	831	E06larvae	
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.0403	1/yr	
REC-AGE-yr	0	yr	SSB0-MT (SSB)	2077	MT	
F-AGE-yr-yr	1+	yr-yr	R0-E03 (R )	3220	E03	
TB-AGE-yr	1+	yr	SSBtarget-E06lar (SSB)	831	E06larvae	
L50-cm	29	cm	SSBmin-ratio (SSB)	0.25	ratio	
M-1/yr	0.12	1/yr	Ftarget-1/yr (F)	0.0403	1/yr	
A50-yr	6	yr	SPRtarget-ratio (SPR)	0.5	ratio	
M			MSY-MT (TB)	275	MT	
			B0-MT	13223	MT	
			BH-h-dimless	0.58	dimless	
			$F_{2007}/F_{msy}$	1.191		
			$SSB_{2007}/SSB_{msy}$	0.748		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1916	1916	1916	1916	1916
Maximum year	2007	2007	2007	2007	2007
Time series minimum	205	519	0	2979	0.4
Time series maximum	2077	7792	0.192	13223	865.6
Units	E06larvae	E03	1/yr	MT	MT



# Assessment of Southern Pacific Coast bocaccio (*Sebastes paucispinis*)

Assessment ID:NWFSC-BOCACCSPOAST-1951-2006-BRANCH  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/61>

Area ID: USA-NMFS-SPCOAST

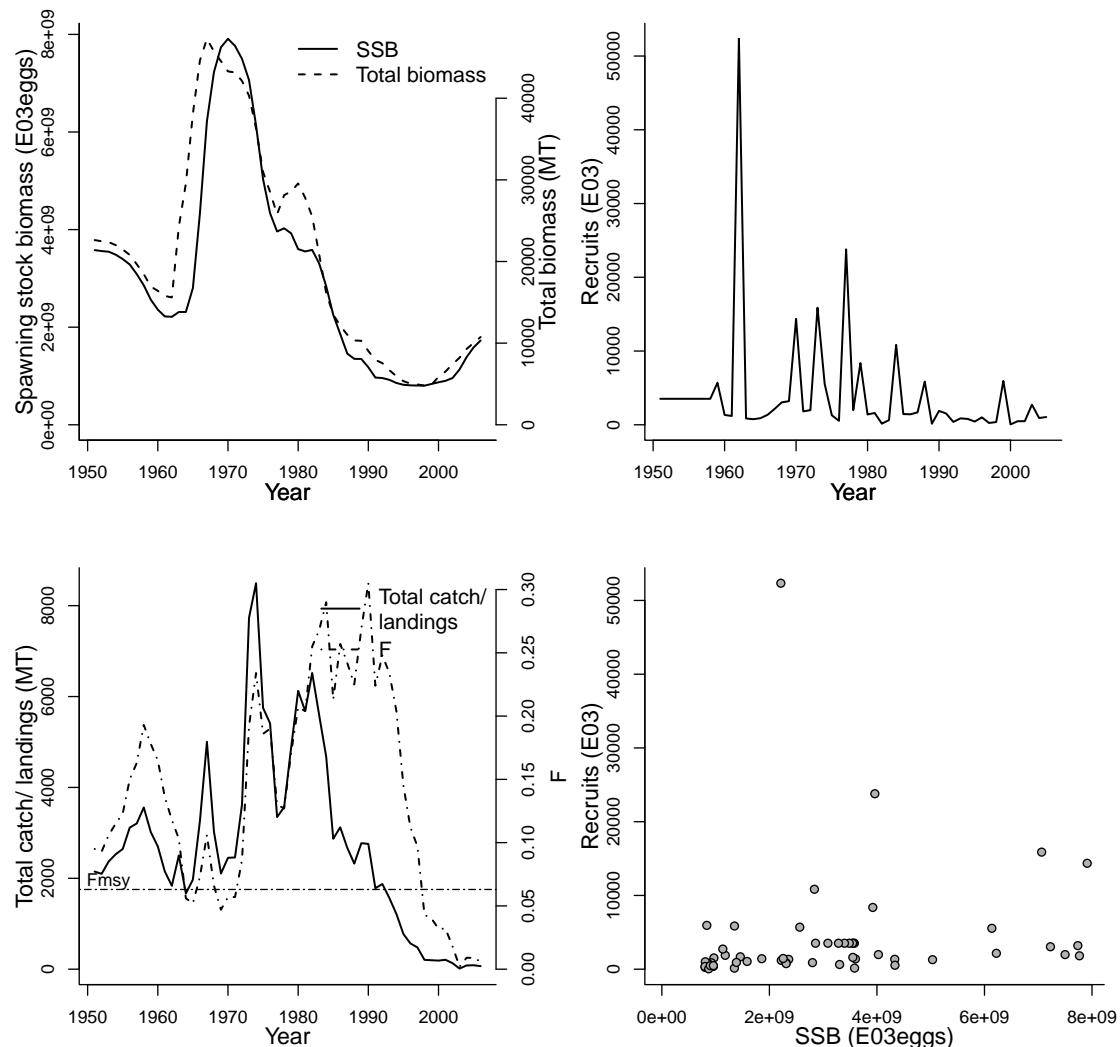
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	MacCall AD
Assessment method	Stock Synthesis v1.0 model
Publication year	2008
Timeseries span	1951-2006
Document	NWFSC-BOCACCSPOAST-2007 Bocaccio.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2010-03-19
QA/QC complete	YES
Date approved	2010-03-19

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

primary LME			secondary LME	tertiary LME
3 - California Current			na	na
Parameter	Value	Units	Reference points	
			Parameter	Value
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.063
REC-AGE-yr	1	yr	R0-E03 (R )	5449
F-AGE-yr-yr	1+	yr-yr	SSBmin-ratio (SSB)	0.25
TB-AGE-yr	1+	yr	Ftarget-1/yr (F)	0.063
M-1/yr	0.15	1/yr	SPRtarget-ratio (SPR)	0.5
SSB-AGE-yr			MSY-MT (TB)	1974
M			SSBmsy-E03eggs	5429000000
A50-yr			SSB0-E03eggs	13572000000
L50-cm			SSBtarget-E03eggs	5429000000
			BH-h-dimless	0.44
			SSBlim-E03eggs	802000000
			$SSB_{2006}/SSB_{lim}$	2.153
			$F_{2006}/F_{msy}$	0.095
			$SSB_{2006}/SSB_{msy}$	0.318

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1951	1951	1951	1951	1951
Maximum year	2006	2005	2006	2006	2006
Time series minimum	802000000	50	0.002	4796	14
Time series maximum	7910000000	52337	0.305	47280	8494
Units	E03eggs	E03	1/yr	MT	MT



# Assessment of Southern Pacific Coast chilipepper (*Sebastodes goodei*)

Assessment ID:NWFSC-CHILISPCOAST-1892-2007-BRANCH

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/83>

Area ID: USA-NMFS-SPCOAST

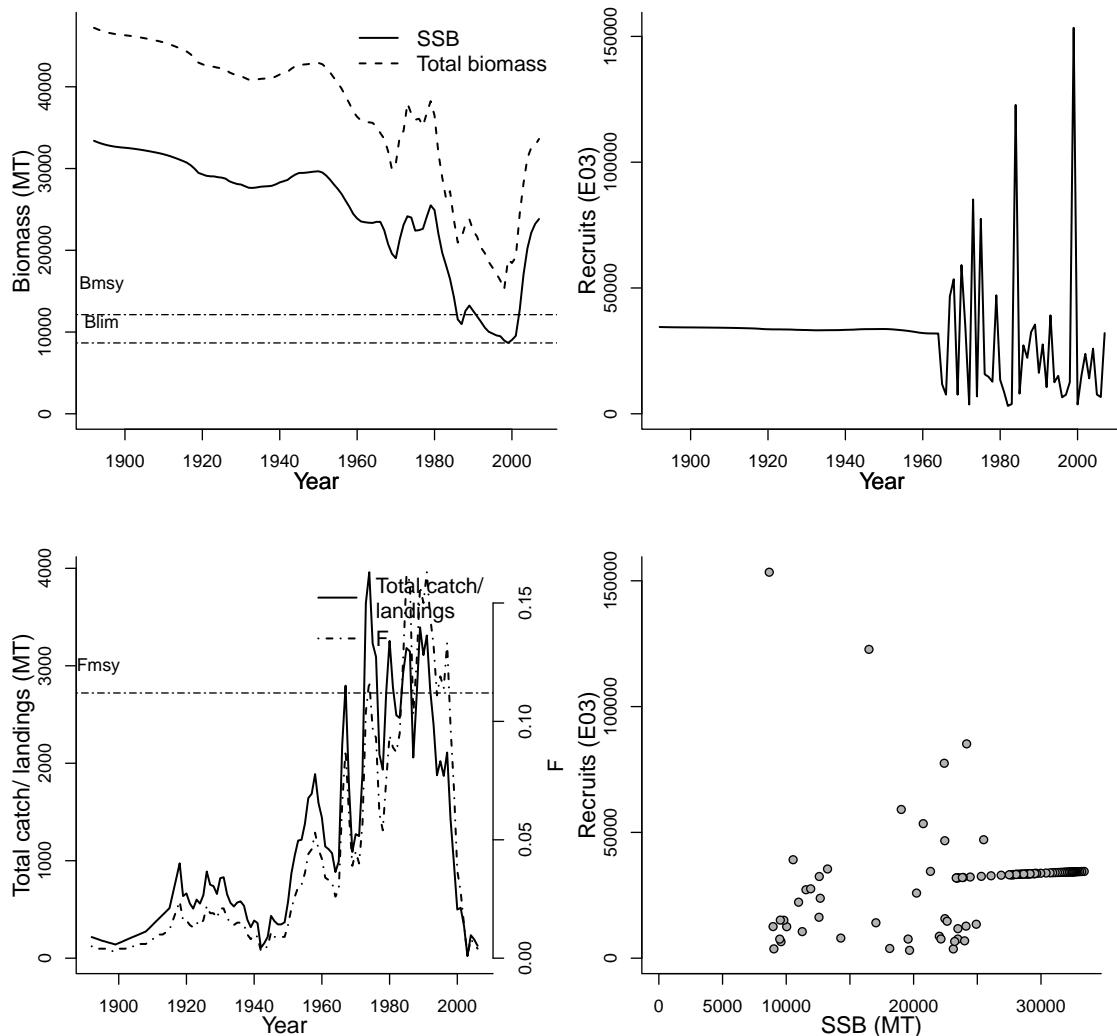
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Field JG
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1892-2007
Document	NWFSC-CHILISPCOAST-2007-Chilipepper CA OR.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-21
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	
3 - California Current			na		na	
			Reference points			
Parameter	Value	Units	Parameter	Value	Units	
SSB-SEX-sex	1	sex	Blim-MT (TB)	8666	MT	
REC-AGE-yr	0	yr	Bmsy-MT (TB)	12126	MT	
F-AGE-yr-yr	1-80	yr-yr	Fmsy-1/yr (F)	0.112	1/yr	
TB-AGE-yr	0+	yr	SSB0-MT (SSB)	33390	MT	
M-1/yr	0.16	1/yr	R0-E03 (R )	34490	E03	
SSB-AGE-yr			SSBtarget-MT (SSB)	21034	MT	
M			SSBmin-ratio (SSB)	0.25	ratio	
A50-yr			Ftarget-1/yr (F)	0.102	1/yr	
L50-cm			SPRtarget-ratio (SPR)	0.4	ratio	
			MSY-MT (TB)	2164	MT	
			BH-h-dimless	0.573	dimless	
			$TB_{2007}/B_{msy}$	2.772		
			$F_{2006}/F_{msy}$	0.036		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1892	1892	1892	1892	1892
Maximum year	2007	2007	2006	2007	2006
Time series minimum	8666	3130	0.001	15209	21
Time series maximum	33391	153415	0.163	47214	3960
Units	MT	E03	1/yr	MT	MT



# Assessment of Southern California cowcod (*Sebastodes levis*)

Assessment ID:NWFSC-COWCODSCAL-1900-2007-BRANCH

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/40>

Area ID: USA-NMFS-SCAL

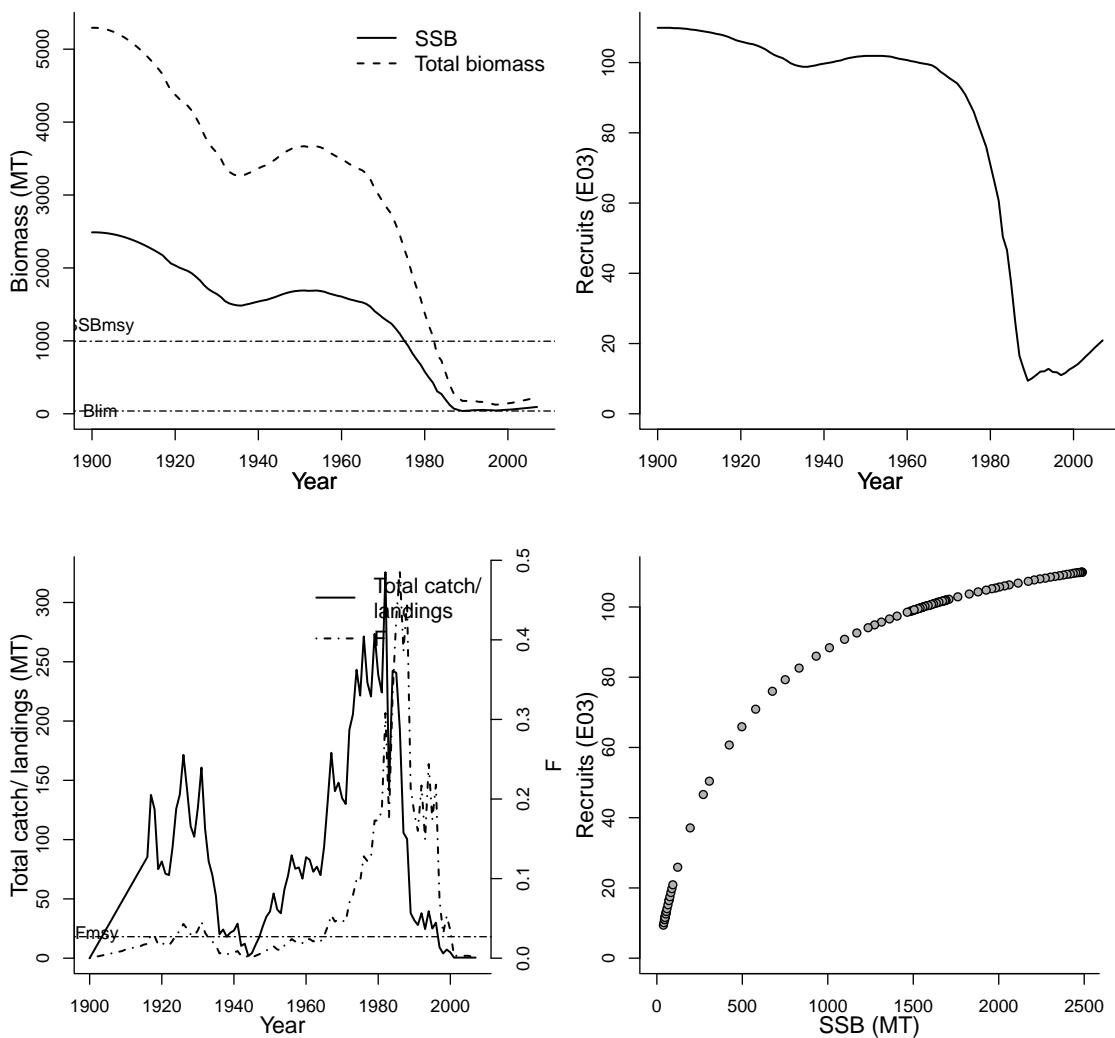
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Dick EJ
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1900-2007
Document	NWFSC-COWCODSCAL-2007-Cowcod CA.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-21
Date last loaded	2009-06-02
QA/QC complete	YES
Date approved	2009-06-02

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

primary LME			secondary LME		tertiary LME	
3 - California Current			na	na		
Parameter	Value	Units	Reference points			Units
			Parameter	Value	Units	
SSB-AGE-yr	11+	yr	Blim-MT (TB)	38	MT	
SSB-SEX-sex	1	sex	SSBmsy-MT (SSB)	995	MT	
REC-AGE-yr	0	yr	Fmsy-1/yr (F)	0.027	1/yr	
F-AGE-yr-yr	1+	yr-yr	SSB0-MT (SSB)	2488	MT	
TB-AGE-yr	1+	yr	R0-E03 (R )	109.9	E03	
M-1/yr	0.055	1/yr	SSBtarget-MT (SSB)	995	MT	
A50-yr	11	yr	SSBmin-ratio (SSB)	0.25	ratio	
L50-cm	43	cm	Ftarget-1/yr (F)	0.027	1/yr	
M			SPRtarget-ratio (SPR)	0.4	ratio	
			MORATOR-yr-yr	2001-present	yr-yr	
			B0-MT	5291	MT	
			BH-h-dimless	0.6	dimless	
			$F_{2007}/F_{msy}$	0.074		
			$SSB_{2007}/SSB_{msy}$	0.094		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1900	1900	1900	1900	1900
Maximum year	2007	2007	2007	2007	2007
Time series minimum	38.3	9.4	0	124.6	0.01
Time series maximum	2488.1	109.9	0.485	5293.1	325.54
Units	MT	E03	1/yr	MT	MT



# Assessment of Pacific Coast canary rockfish (*Sebastes pinniger*)

Assessment ID:NWFSC-CROCKPCOAST-1916-2007-BRANCH

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/84>

Area ID: USA-NMFS-PCOAST

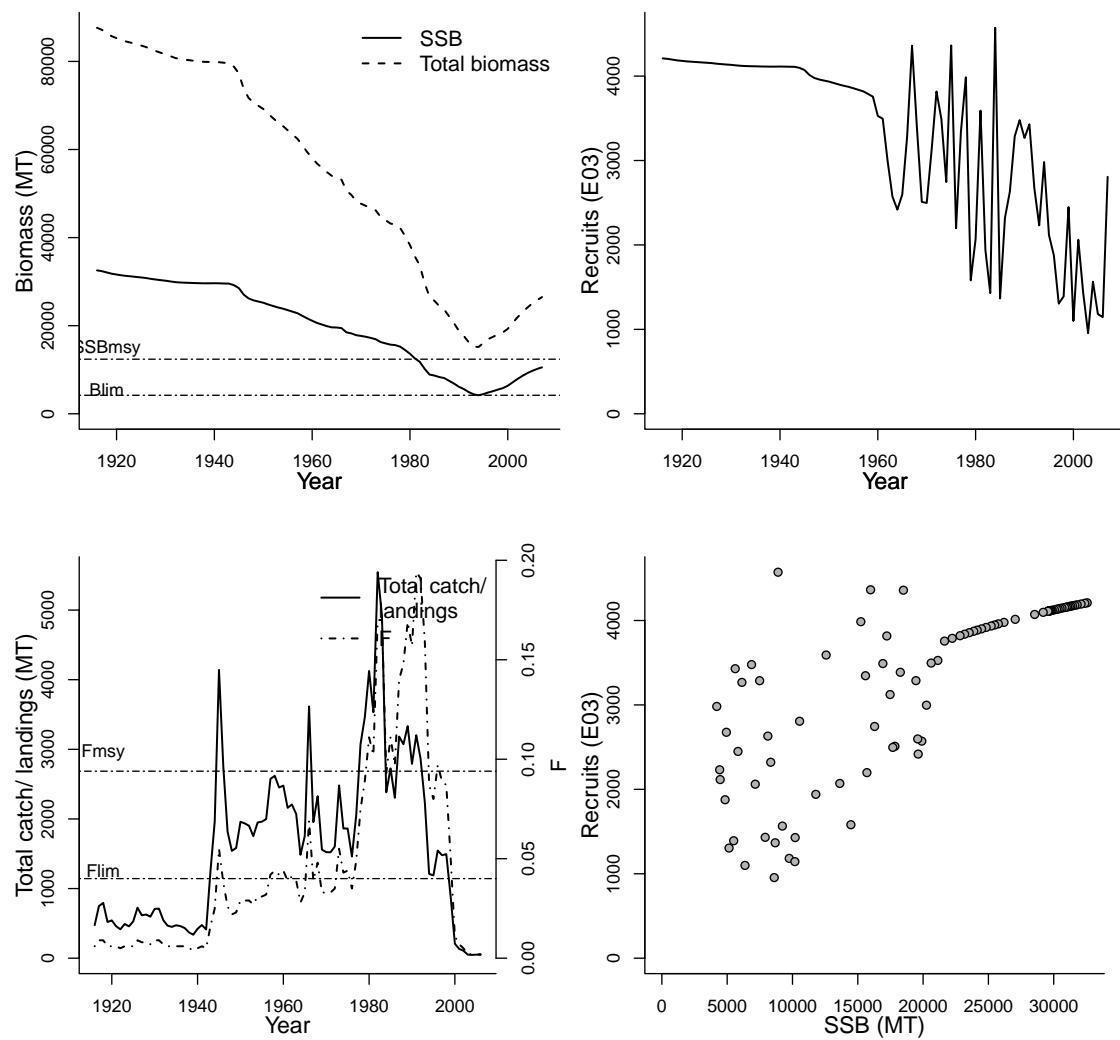
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Stewart, Ian J.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1916-2007
Document	NWFSC-CROCKPCOAST-2007-Canary.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-10
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	
3 - California Current			na		na	
			Reference points			
Parameter	Value	Units	Parameter	Value	Units	
SSB-SEX-sex	1	sex	Blim-MT (TB)	4202	MT	
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	12394	MT	
F-AGE-yr-yr	5-35	yr-yr	Flim-1/yr (F)	0.04	1/yr	
TB-AGE-yr	0	yr	Fmsy-1/yr (F)	0.094	1/yr	
L50-cm	40.5	cm	SSB0-MT (SSB)	32561	MT	
M-1/T	0.06	1/T	R0-E03 (R )	4210	E03	
SSB-AGE-yr			SSBtarget-MT (SSB)	13041	MT	
M			SSBmin-ratio (SSB)	0.25	ratio	
A50-yr			Ftarget-1/yr (F)	0.04	1/yr	
			SPRtarget-ratio (SPR)	0.5	ratio	
			MSY-MT (TB)	1169	MT	
			BH-h-dimless	0.511	dimless	
			$F_{2006}/F_{lim}$	0.050		
			$F_{2006}/F_{msy}$	0.021		
			$SSB_{2007}/SSB_{msy}$	0.851		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1916	1916	1916	1916
Maximum year	2007	2007	2006	2007
Time series minimum	4202	955	0.002	15147
Time series maximum	32561	4572	0.194	87633
Units	MT	E03	1/yr	MT



# Assessment of Pacific Coast canary rockfish (*Sebastes pinniger*)

Assessment ID:NWFSC-CROCKCOAST-1916-2009-Stachura

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/84>

Area ID: USA-NMFS-PCOAST

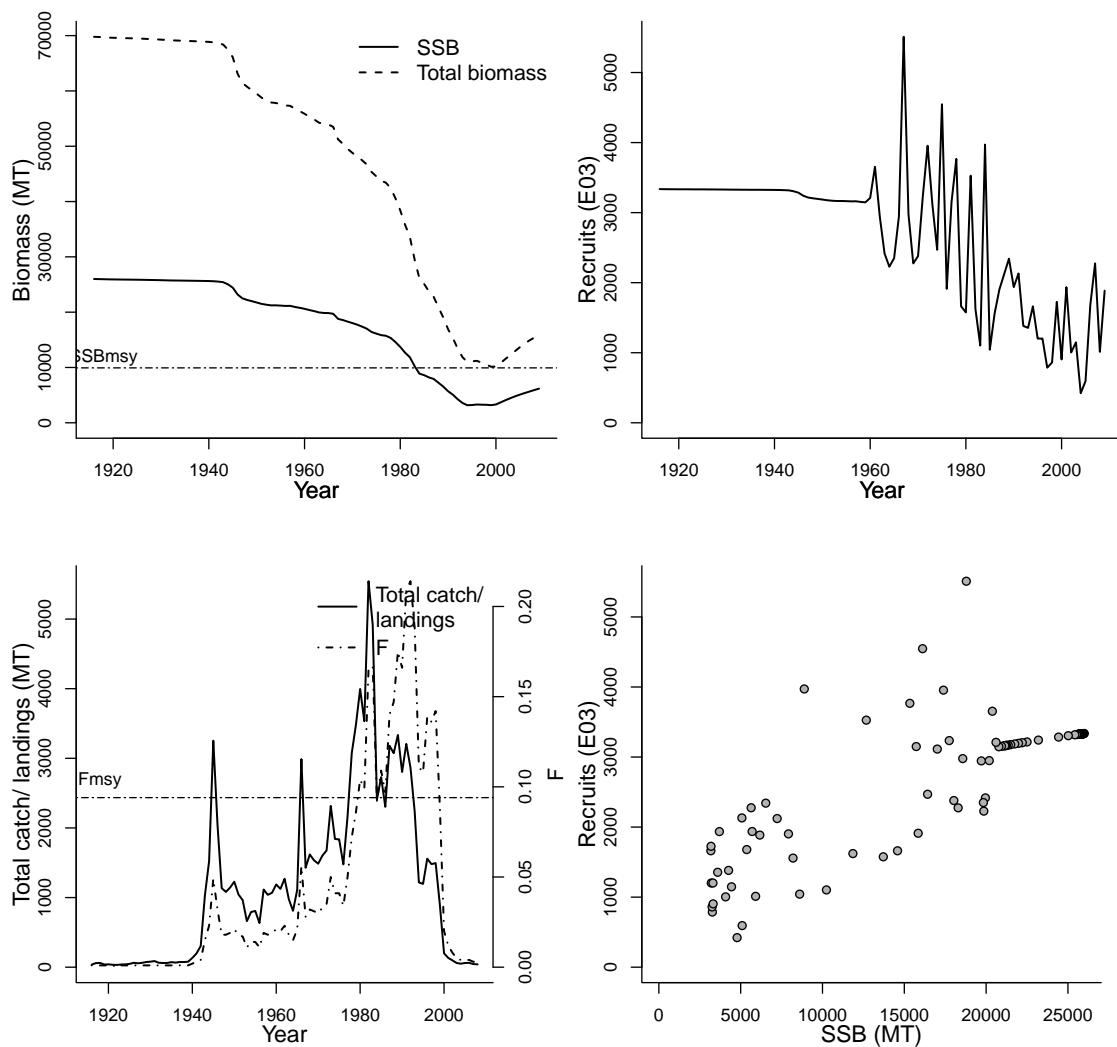
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Stewart, Ian J.
Assessment method	Stock Synthesis v2.0 model
Publication year	2009
Timeseries span	1916-2009
Document	NWFSC-CROCKCOAST-2009.pdf (pdf in database)
Recorder	Stachura
Date entered	2011-03-15
Date last loaded	2011-04-05
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	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	7.688	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.094	1/yr	
REC-AGE-yr	0	yr	SSBmssy-MT (SSB)	9928	MT	
F-AGE-yr-yr	5-35	yr-yr	MSY-MT (TB)	937	MT	
TB-AGE-yr	0	yr	BH-h-dimless	0.511	dimless	
L50-cm	40.5	cm	$F_{2008}/F_{mssy}$	0.032		
M-1/T	0.06	1/T	$SSB_{2009}/SSB_{mssy}$	0.621		
M						
A50-yr						

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1916	1916	1916	1916	1916
Maximum year	2009	2009	2008	2009	2008
Time series minimum	3178	422	0	10122	32.2
Time series maximum	25993	5510	0.214	69785	5543.56
Units	MT	E03	1/yr	MT	MT



# Assessment of Pacific Coast darkblotched rockfish (*Sebastodes crameri*)

Assessment ID:NWFSC-DKROCKPCOAST-1928-2007-BRANCH  
 Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/43>

Area ID: USA-NMFS-PCOAST

General assessment details.

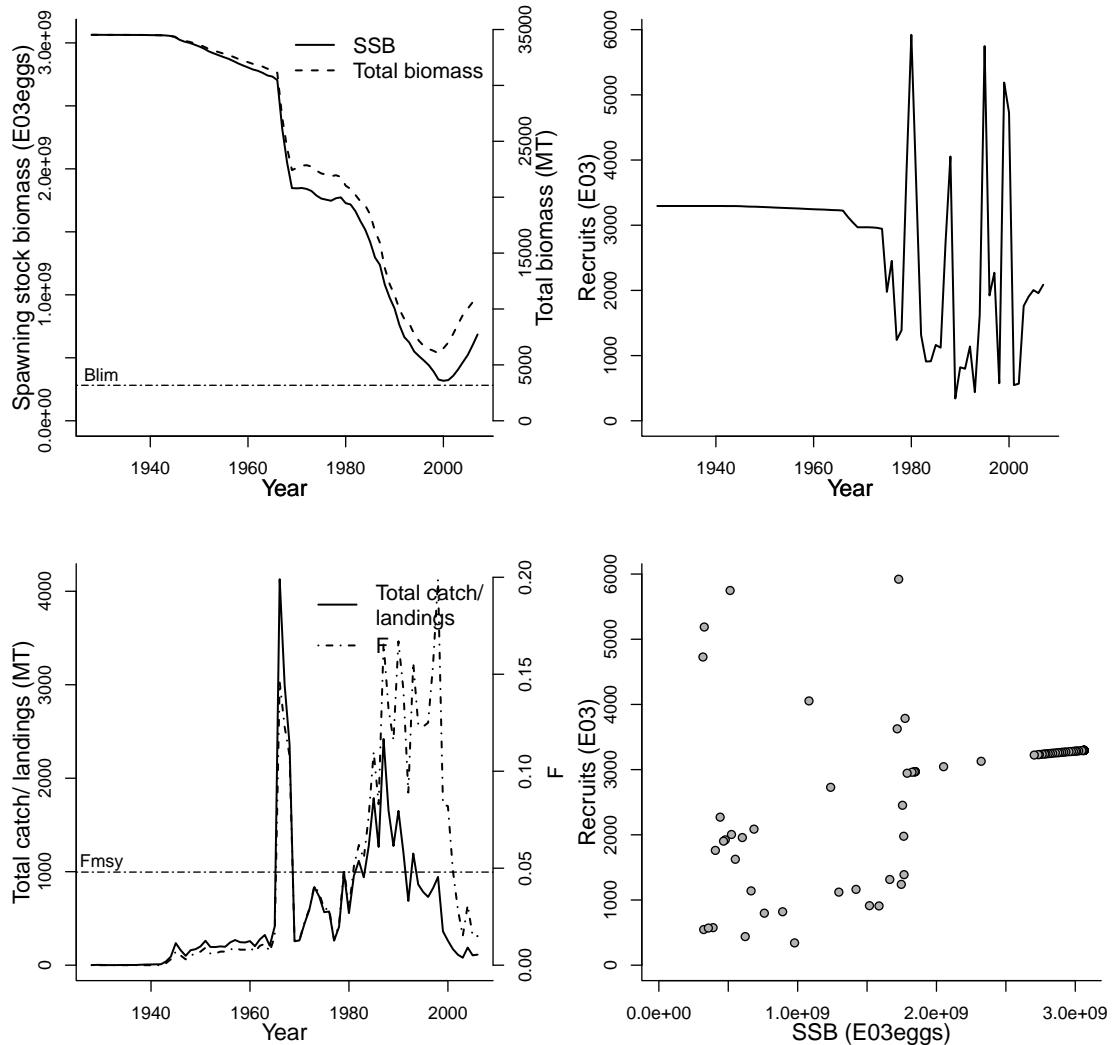
Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Hamel OS
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1928-2007
Document	NWFSC-DKROCKPCOAST-2008-Darkblotched rockfish.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2010-03-05
QA/QC complete	YES
Date approved	2009-04-27

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

primary LME			secondary LME	tertiary LME
3 - California Current			na	na
			Reference points	
Parameter	Value	Units	Parameter	Value
SSB-SEX-sex	1	sex	Blim-MT (TB)	3176
REC-AGE-yr	0	yr	Fmsy-1/yr (F)	0.048
F-AGE-yr-yr	1+	yr-yr	R0-E03 (R )	3295
TB-AGE-yr	0+	yr	SSBmin-ratio (SSB)	0.25
L50-cm	34.5	cm	Ftarget-1/yr (F)	0.041
M-1/yr	0.07	1/yr	SPRtarget-ratio (SPR)	0.5
SSB-AGE-yr			MSY-MT (TB)	644
M			SSBmsy-E03eggs	937600000
A50-yr			SSB0-E03eggs	3064000000
			SSBtarget-E03eggs	1225600000
			BH-h-dimless	0.6
			$F_{2006}/F_{msy}$	0.312
			$SSB_{2007}/SSB_{msy}$	0.731

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1928	1928	1928	1928	1928
Maximum year	2007	2007	2006	2007	2006
Time series minimum	317600000	342	0	6031	1
Time series maximum	3064100000	5921	0.199	34527	4129
Units	E03eggs	E03	1/yr	MT	MT



# Assessment of Pacific Coast english sole

## *(Parophrys vetulus)*

Assessment ID:NWFSC-ESOLEPCOAST-1876-2007-BRANCH

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/21>

Area ID: USA-NMFS-PCOAST

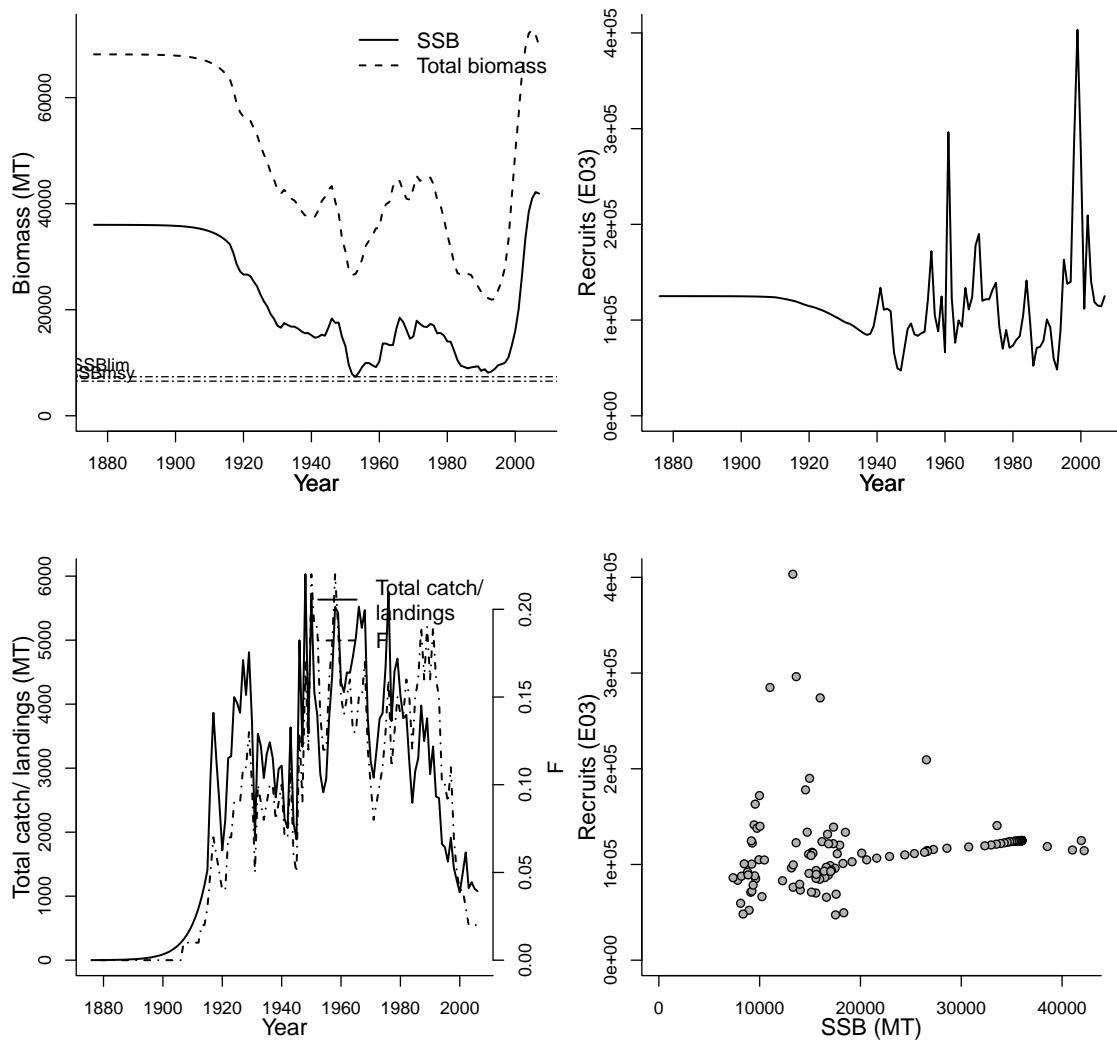
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Stewart, Ian J.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1876-2007
Document	NWFSC-ESOLEPCOAST-2007-EnglishSole.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-18
Date last loaded	2010-03-17
QA/QC complete	YES
Date approved	2010-03-16

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

primary LME			secondary LME		tertiary LME	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			Units
			Parameter	Value	Units	
SSB-AGE-yr	3+	yr	SSBlim-MT (SSB)	7364	MT	
SSB-SEX-sex	1	sex	SSBmsy-MT (SSB)	6526	MT	
REC-AGE-yr	0	yr	Fmsy-1/yr (F)	0.27	1/yr	
F-AGE-yr-yr	1+	yr-yr	SSB0-MT (SSB)	36012	MT	
L50-cm	23.3	cm	R0-E03 (R)	124990	E03	
TB-AGE-yr	7.7+	yr	BH-h-dimless	0.798	dimless	
A50-yr	7.7+	yr	SSBtarget-MT (SSB)	14405	MT	
M			SSBmin-ratio (SSB)	0.25	ratio	
			Ftarget-1/yr (F)	0.13	1/yr	
			SPRtarget-ratio (SPR)	0.49	ratio	
			MSY-MT (TB)	4252	MT	
			SSB <sub>2007</sub> /SSB <sub>lim</sub>	5.691		
			F <sub>2006</sub> /F <sub>m<sub>sy</sub></sub>	0.074		
			SSB <sub>2007</sub> /SSB <sub>m<sub>sy</sub></sub>	6.422		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1876	1876	1876	1876
Maximum year	2007	2007	2006	2007
Time series minimum	7364	47349	0	21903
Time series maximum	42193	403289	0.22	72795
Units	MT	E03	1/T	MT



# Assessment of Oregon Coast kelp greenling (*Hexagrammos decagrammus*)

## Assessment

ID:NWFSC-KELPGREENLINGORECOAST-1979-2005-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/347>

Area ID: USA-NMFS-ORECOAST

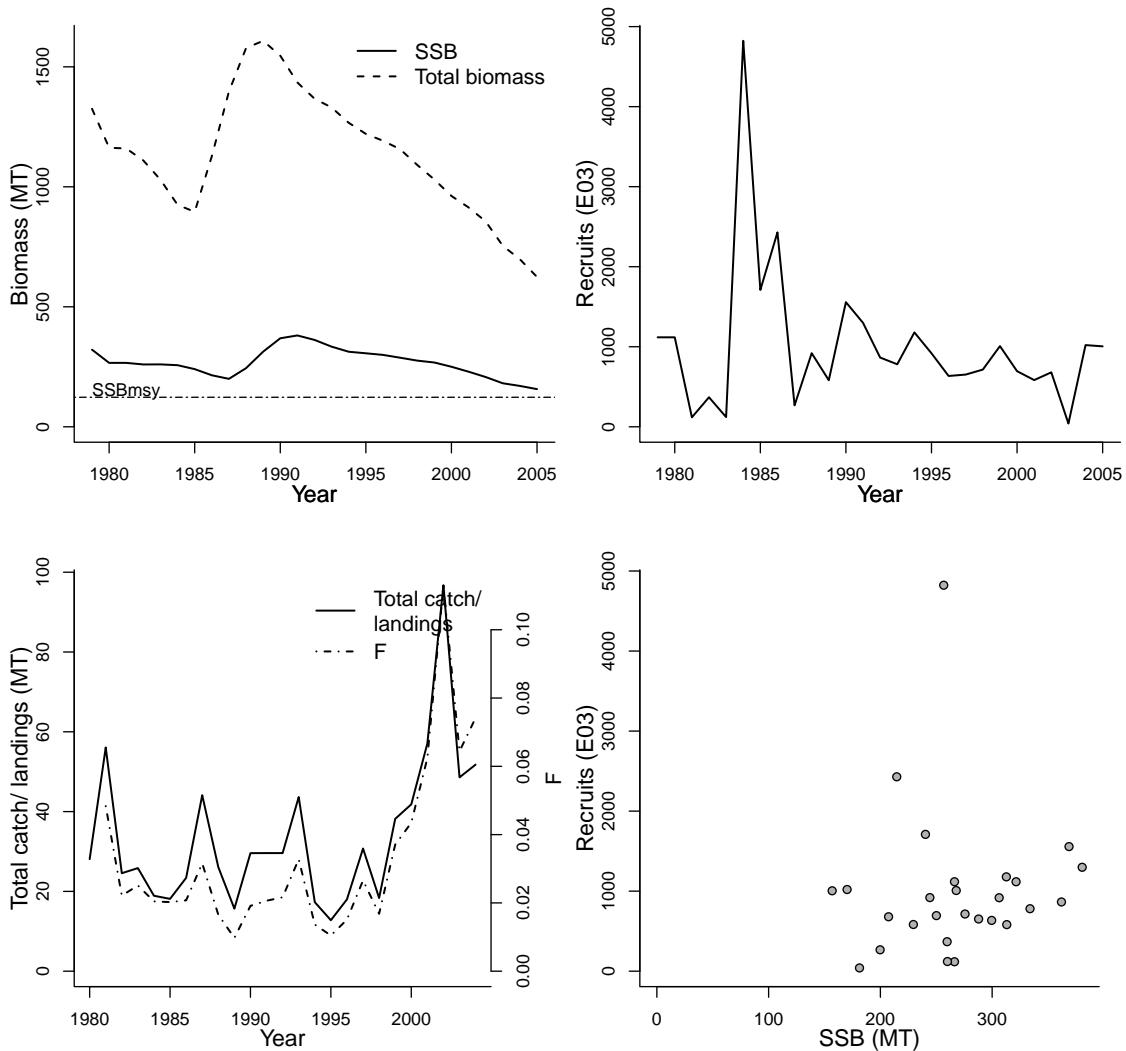
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Cope, Jason
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1979-2005
Document	KelpGreenling_2005.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-22
Date last loaded	2010-01-28
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		
3 - California Current			na			na		
Parameter	Value	Units	Reference points					
SSB-AGE-yr	4+	yr	Parameter	Value	Units			
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.26	1/yr			
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	123	MT			
F-AGE-yr-yr	0+	yr-yr	MSY-MT (TB)	82	MT			
TB-AGE-yr	0+	yr	Umsy-ratio (U)	0.125	ratio			
M-1/yr	0.26	1/yr	SSB0-MT (SSB)	321	MT			
NATMORT-1/yr	0.26	1/yr	B0-MT	1295	MT			
M			$SSB_{2005}/SSB_{msy}$	1.275				
A50-yr								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1979	1979	1981	1979
Maximum year	2005	2005	2004	2005
Time series minimum	156.873	40.7389	0.00974561	624.32
Time series maximum	380.566	4822.71	0.113046	1608.43
Units	MT	E03	ratio	MT



# Assessment of Pacific Coast longnose skate (*Raja rhina*)

Assessment ID:NWFSC-LNOSESKAPCOAST-1915-2007-BRANCH

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/41>

Area ID: USA-NMFS-PCOAST

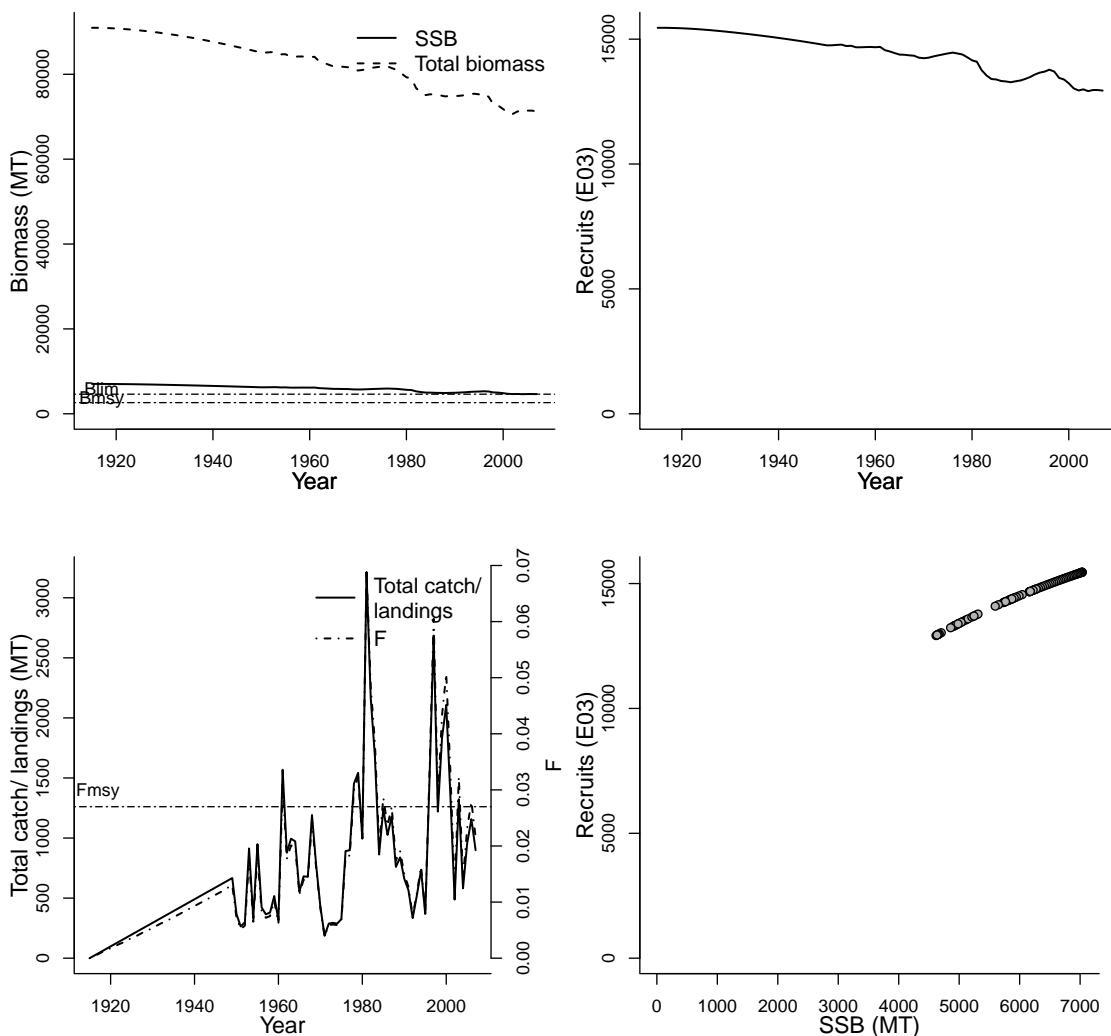
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Gertseva VV
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1915-2007
Document	NWFSC-LNOSESKAPCOAST-2008-Longnose skate.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2009-06-02
QA/QC complete	YES
Date approved	2009-06-02

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

primary LME			secondary LME		tertiary LME	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			Units
			Parameter	Value	Value	
SSB-SEX-sex	1	sex	Blim-MT (TB)	4617	MT	
REC-AGE-yr	0	yr	Bmsy-MT (TB)	2626	MT	
F-AGE-yr-yr	2+	yr-yr	Fmsy-1/yr (F)	0.027	1/yr	
TB-AGE-yr	0+	yr	SSB0-MT (SSB)	7034	MT	
L50-cm	120	cm	R0-E03 (R)	15454	E03	
M-1/yr	0.2	1/yr	SSBtarget-MT (SSB)	2814	MT	
SSB-AGE-yr			SSBmin-ratio (SSB)	0.25	ratio	
M			Ftarget-1/yr (F)	0.0257	1/yr	
A50-yr			SPRtarget-ratio (SPR)	0.4	ratio	
			MSY-MT (TB)	1268	MT	
			BH-h-dimless	0.4	dimless	
			$TB_{2007}/B_{msy}$	27.120		
			$F_{2007}/F_{msy}$	0.800		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1915	1915	1915	1915
Maximum year	2007	2007	2007	2007
Time series minimum	4617.13	12918.1	0	70670.6
Time series maximum	7034.32	15454.2	0.0688	90955.2
Units	MT	E03	ratio	MT



# Assessment of Pacific Coast longspine thornyhead (*Sebastolobus altivelis*)

Assessment ID:NWFSC-LSTHORNHPCOAST-1962-2005-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/348>

Area ID: USA-NMFS-PCOAST

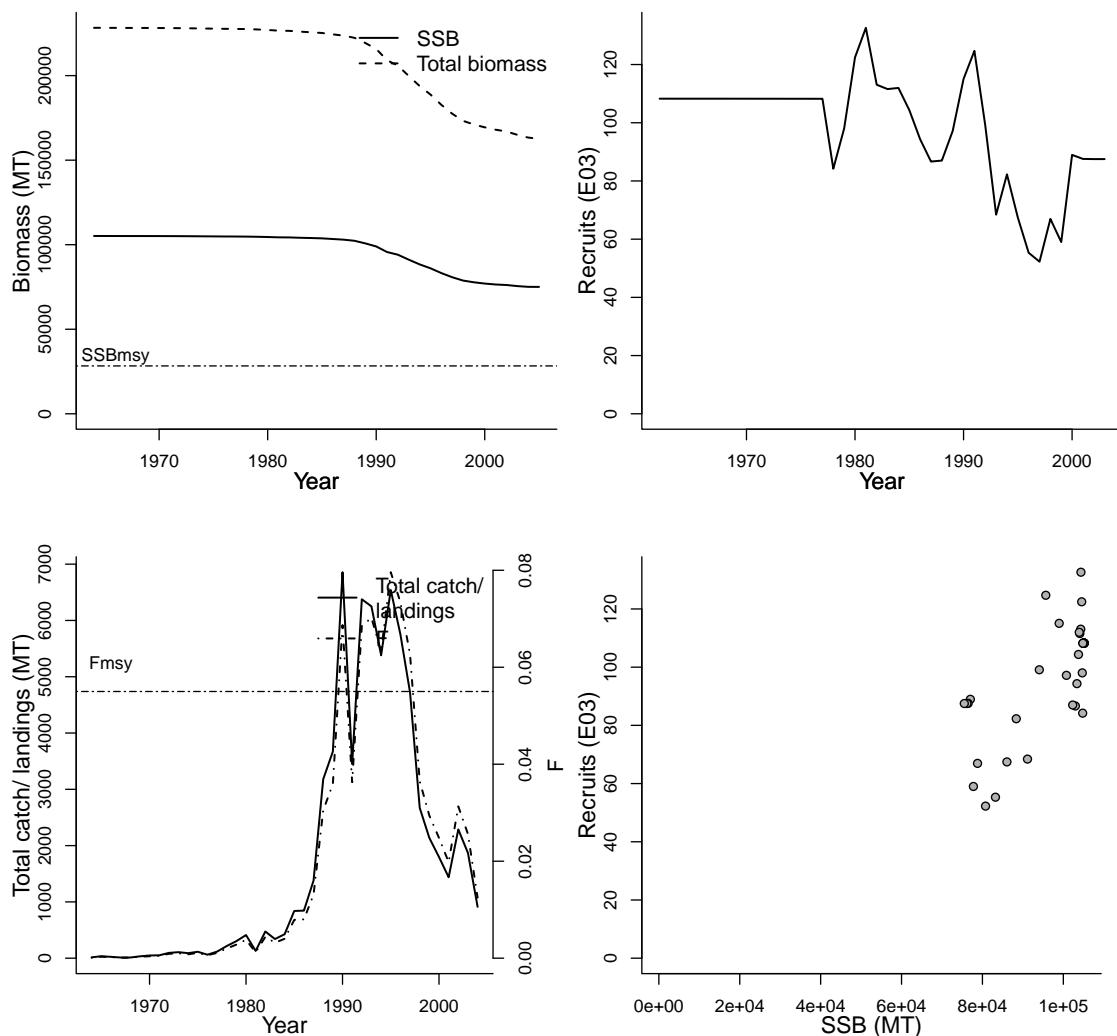
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Fay, Gavin
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1962-2005
Document	2005-SAFE-Longspine.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-22
Date last loaded	2009-11-10
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
3 - California Current			na	na	
Parameter	Value	Units	Parameter	Reference points	
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.055	1/yr
REC-AGE-yr	2	yr	SSBmsy-MT (SSB)	28305	MT
F-AGE-yr-yr	0+	yr-yr	MSY-MT (TB)	3687	MT
TB-AGE-yr	0+	yr	SSB0-MT (SSB)	105157	MT
SSB-AGE-yr			BO-MT	227972	MT
M			BH-h-dimless	0.75	dimless
A50-yr			$F_{2004}/F_{msy}$	0.227	
L50-cm			$SSB_{2005}/SSB_{msy}$	2.651	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1964	1962	1964	1964
Maximum year	2005	2003	2004	2005
Time series minimum	75049	52.265	0.0001	162642
Time series maximum	105157	132.625	0.0796	228275
Units	MT	E03	1/yr	MT



# Assessment of Pacific Coast pacific hake (*Merluccius productus*)

Assessment ID:NWFSC-PHAKEPCOAST-1966-2008-BRANCH

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/74>

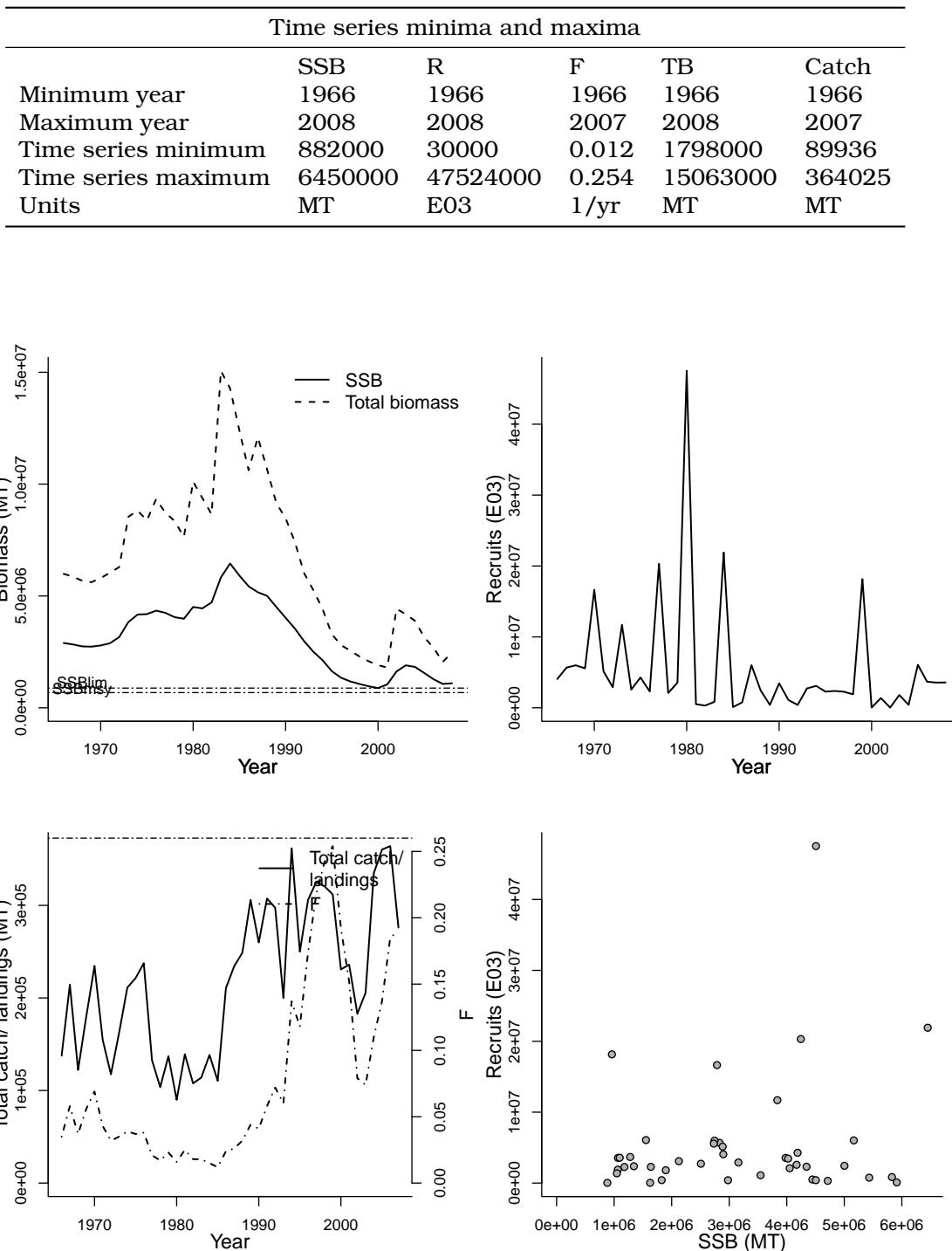
Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Helser, Thomas E.
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1966-2008
Document	NWFSC-PHAKEPCOAST-2008-Pacific-Hake-US-Canada.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-24
Date last loaded	2010-05-27
QA/QC complete	YES
Date approved	2010-05-27

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

primary LME			secondary LME		tertiary LME	
3 - California Current			2 - Gulf of Alaska		na	
Parameter	Value	Units	Reference points			Units
			SSBlim-MT (SSB)	882000	MT	
SSB-AGE-yr	3+	yr	SSBmsy-MT (SSB)	680000	MT	
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.26	1/yr	
REC-AGE-yr	0	yr	SSB0-MT (SSB)	2890000	MT	
F-AGE-yr-yr	3+	yr-yr	R0-E09 (R )	4.06	E09	
TB-AGE-yr	3+	yr	SSBtarget-MT (SSB)	1170000	MT	
L50-cm	36	cm	SSBmin-ratio (SSB)	0.25	ratio	
M-1/yr	0.23	1/yr	Ftarget-1/yr (F)	0.16	1/yr	
M			SPRtarget-ratio (SPR)	0.4	ratio	
A50-yr			MSY-MT (TB)	476750	MT	
			BH-h-dimless	0.744	dimless	
			$SSB_{2008}/SSB_{lim}$	1.244		
			$F_{2007}/F_{msy}$	0.731		
			$SSB_{2008}/SSB_{msy}$	1.613		



# Assessment of Pacific Coast pacific ocean perch (*Sebastes alutus*)

Assessment ID:NWFSC-POPERCHPCOAST-1953-2007-BRANCH  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/63>

Area ID: USA-NMFS-PCOAST

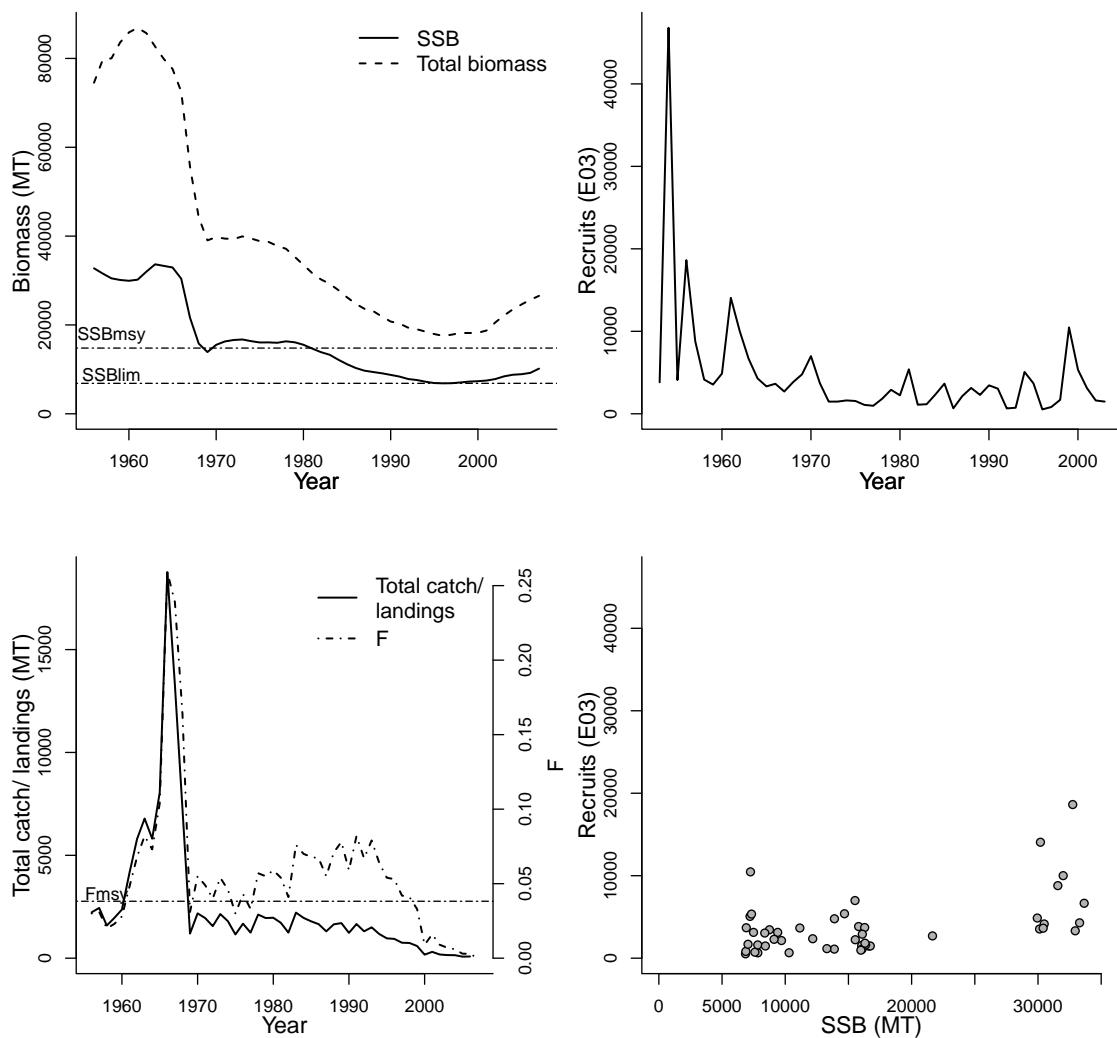
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Hamel OS
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2007
Timeseries span	1953-2007
Document	NWFSC-POPERCHPCOAST-2007-Pacific ocean perch.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-24
Date last loaded	2010-03-19
QA/QC complete	YES
Date approved	2010-03-19

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

primary LME			secondary LME	tertiary LME
3 - California Current			na	na
			Reference points	
Parameter	Value	Units	Parameter	Value
SSBlim-MT (SSB)	6856	MT		
SSBmsy-MT (SSB)	14793	MT		
Fmsy-1/yr (F)	0.0382	1/yr		
SSB0-MT (SSB)	36983	MT		
R0-E06 (R )	4.97	E06		
SSBtarget-MT (SSB)	14793	MT		
SSBmin-ratio (SSB)	0.25	ratio		
Ftarget-1/yr (F)	0.0388	1/yr		
SPRtarget-ratio (SPR)	0.4	ratio		
MSY-MT (TB)	1411	MT		
BH-h-dimless	0.652	dimless		
$SSB_{2007}/SSB_{lim}$	1.483			
$SSB_{2007}/SSB_{msy}$	0.687			

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1956	1953	1956	1956
Maximum year	2007	2003	2007	2007
Time series minimum	6856	530	0	17543.8
Time series maximum	33654	46800	0.259	86898.1
Units	MT	E03	1/yr	MT



# Assessment of Northern Pacific Coast petrale sole (*Eopsetta jordani*)

Assessment ID:NWFSC-PSOLENPCOAST-1910-2005-STANTON  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/342>

Area ID: USA-NMFS-NPCOAST

General assessment details.

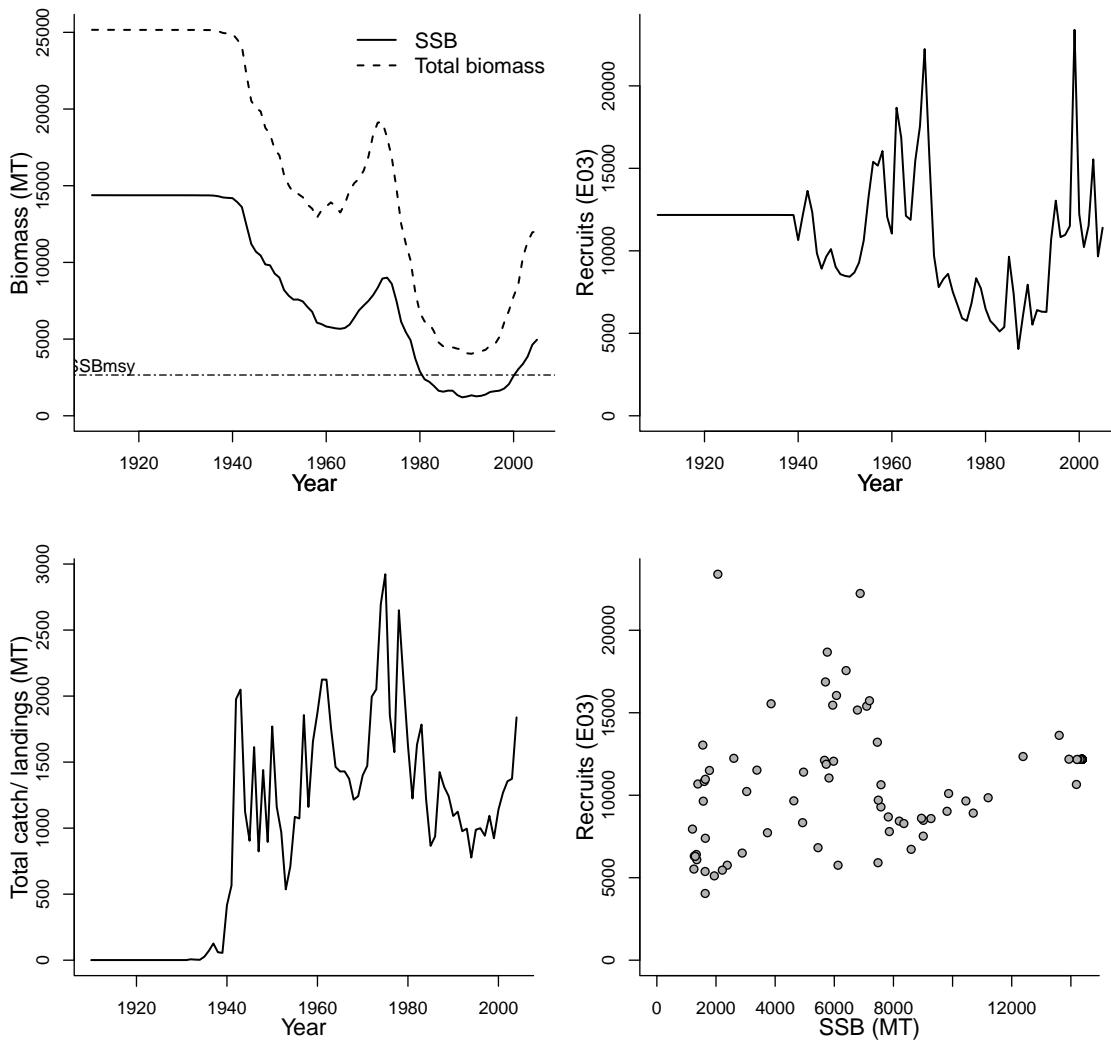
Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Lai, Han-Lin
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1910-2005
Document	ref2004-SAFE-WCpetralesole.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-20
Date last loaded	2010-07-27
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	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	3+	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.2	1/yr	
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	2658	MT	
F-AGE-yr-yr	3+	yr-yr	MSY-MT (TB)	1760	MT	
TB-AGE-yr	3+	yr	Umsy-ratio (U)	0.12	ratio	
M-1/yr	0.2	1/yr	SSB0-MT (SSB)	14382	MT	
NATMORT-1/yr	0.2	1/yr	B0-MT	25165	MT	
M			SSB <sub>2005</sub> /SSB <sub>msy</sub>	1.866		
A50-yr						
L50-cm						

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1910	1910		1910	1910
Maximum year	2005	2005		2005	2004
Time series minimum	1204	4045		4041	1
Time series maximum	14382	23398		25165	2922.9
Units	MT	E03		MT	MT



# Assessment of Southern Pacific Coast petrale sole (*Eopsetta jordani*)

Assessment ID:NWFSC-PSOLESPCOAST-1874-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/341>

Area ID: USA-NMFS-SPCOAST

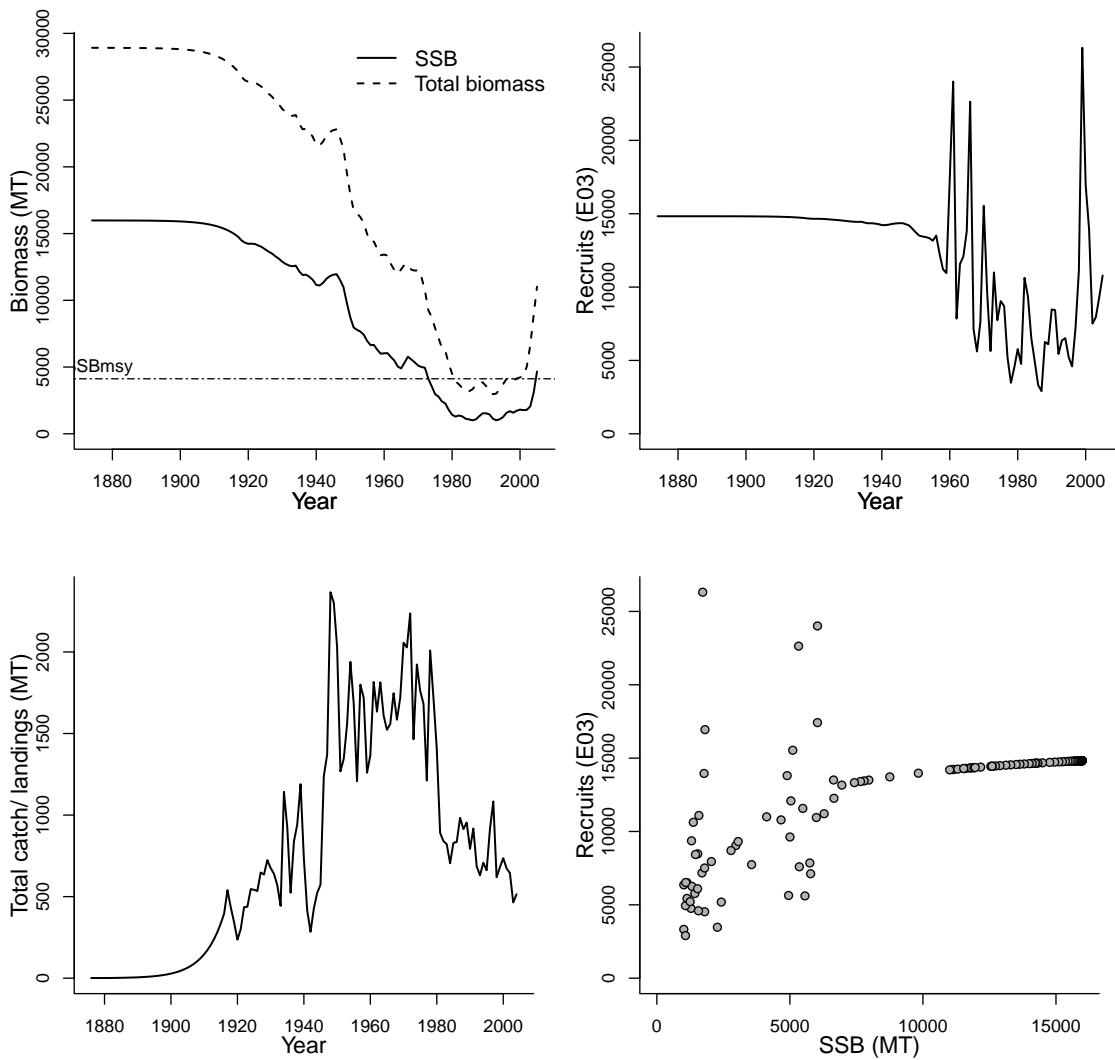
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Lai, Han-Lin
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1874-2005
Document	ref2004-SAFE-WCpetralesole.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-20
Date last loaded	2010-07-27
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	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	3+	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.2	1/yr	
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	4121	MT	
F-AGE-yr-yr	3+	yr-yr	MSY-MT (TB)	1404	MT	
TB-AGE-yr	3+	yr	Umsy-ratio (U)	0.14	ratio	
M-1/yr	0.2	1/yr	SSB0-MT (SSB)	15985	MT	
NATMORT-1/yr	0.2	1/yr	B0-MT	28920	MT	
M			$SSB_{2005}/SSB_{msy}$	1.132		
A50-yr						
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1874	1874	1874	1876
Maximum year	2005	2005	2005	2004
Time series minimum	1012	2906	2963	1
Time series maximum	15985	26311	28920	2366.3
Units	MT	E03	MT	MT



# Assessment of Pacific Coast sablefish

## *(Anoplopoma fimbria)*

Assessment ID:NWFSC-SABLEFPCOAST-1900-2007-BRANCH

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/42>

Area ID: USA-NMFS-PCOAST

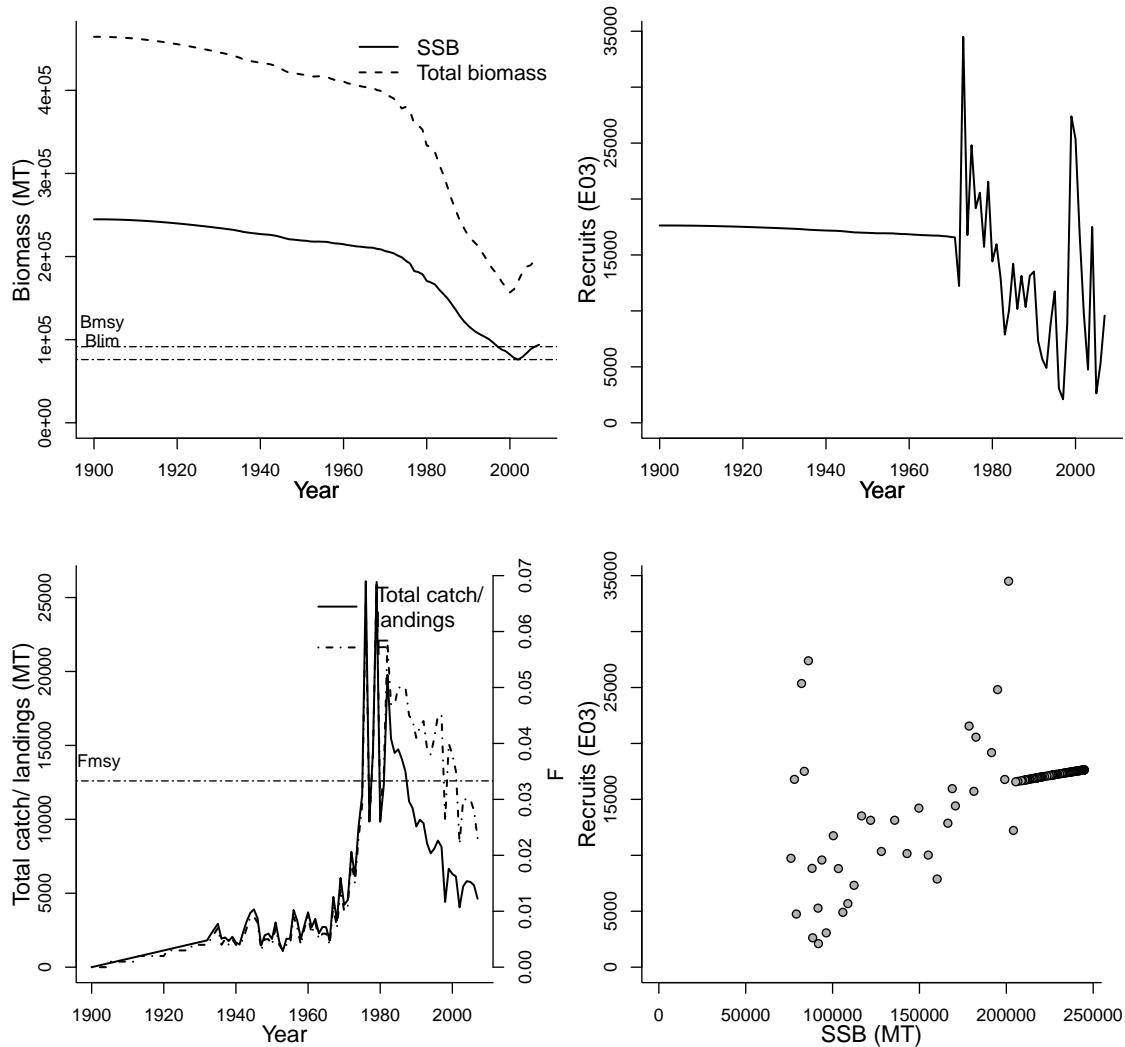
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Schirripa, M.J.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1900-2007
Document	NWFSC-SABLEFPCOAST-2007-Sablefish.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2010-07-21
QA/QC complete	YES
Date approved	2009-06-02

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

primary LME			secondary LME		tertiary LME
3 - California Current			na	na	
			Reference points		
Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	5.5	yr	BH-h-dimless	0.48	dimless
SSB-SEX-sex	1	sex	Blim-MT (TB)	76036	MT
REC-AGE-yr	0	yr	Bmsy-MT (TB)	91559	MT
F-AGE-yr-yr	2+	yr-yr	Fmsy-1/yr (F)	0.0333	1/yr
TB-AGE-yr	2+	yr	SSB0-MT (SSB)	244797	MT
L50-cm	55.3	cm	R0-E03 (R )	17635	E03
M-1/yr	0.07	1/yr	SSBtarget-MT (SSB)	97919	MT
M			SSBmin-ratio (SSB)	0.25	ratio
A50-yr			Ftarget-1/yr (F)	0.0313	1/yr
			SPRtarget-ratio (SPR)	0.4	ratio
			MSY-MT (TB)	6303	MT
			$TB_{2007}/B_{msy}$	2.126	
			$F_{2007}/F_{msy}$	0.691	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1900	1900	1900	1900
Maximum year	2007	2007	2007	2007
Time series minimum	76036.2	2103.55	0	156707
Time series maximum	244809	34500.6	0.069	464403
Units	MT	E03	1/yr	MT



# Assessment of Pacific Coast shortspine thornyhead (*Sebastolobus alascanus*)

Assessment ID:NWFSC-SSTHORNHPCOAST-1901-2005-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/334>

Area ID: USA-NMFS-PCOAST

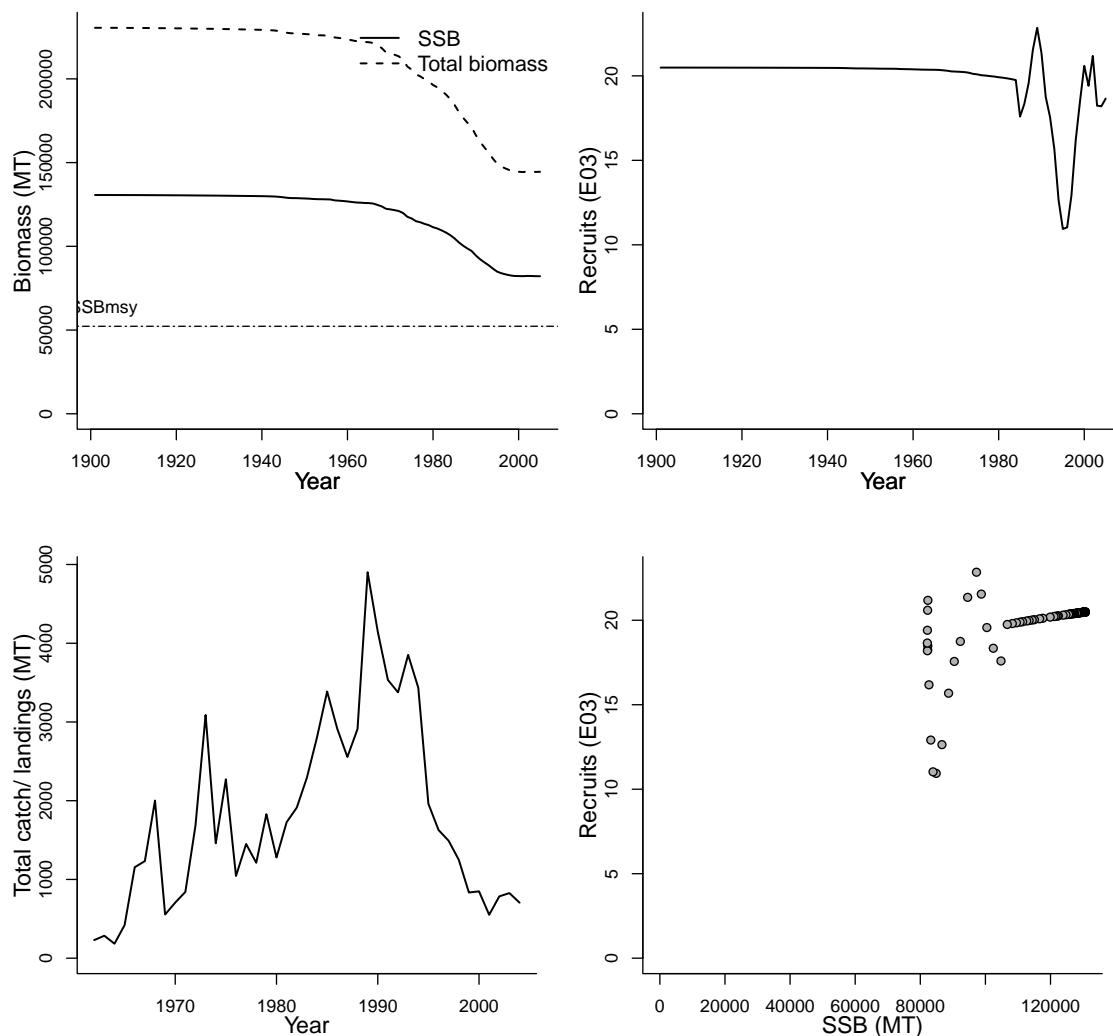
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Hamel, Owen
Assessment method	Stock Synthesis v2.0 model
Publication year	2006
Timeseries span	1901-2005
Document	2005-SST-assessment.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-18
Date last loaded	2010-02-05
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	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	9+	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.0238	1/yr	
REC-AGE-yr	1	yr	NATMORT-1/yr (M)	0.05	1/yr	
F-AGE-yr-yr	2+	yr-yr	SSBmsy-MT (SSB)	52258	MT	
TB-AGE-yr	2+	yr	MSY-MT (TB)	1720	MT	
M-1/yr	0.05	1/yr	Umsy-ratio (U)	0.0184	ratio	
NATMORT-1/yr	0.05	1/yr	SSB0-MT (SSB)	130646	MT	
M			B0-MT	230500	MT	
A50-yr			SSB <sub>2005</sub> /SSB <sub>msy</sub>	1.572		
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1901	1901		1901
Maximum year	2005	2005		2005
Time series minimum	82150.9	10.939		144357
Time series maximum	130646	22.8433		230500
Units	MT	E03	MT	MT



# Assessment of Pacific Coast widow rockfish (*Sebastodes entomelas*)

Assessment ID:NWFSC-WROCKCOAST-1955-2006-BRANCH

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/62>

Area ID: USA-NMFS-PCOAST

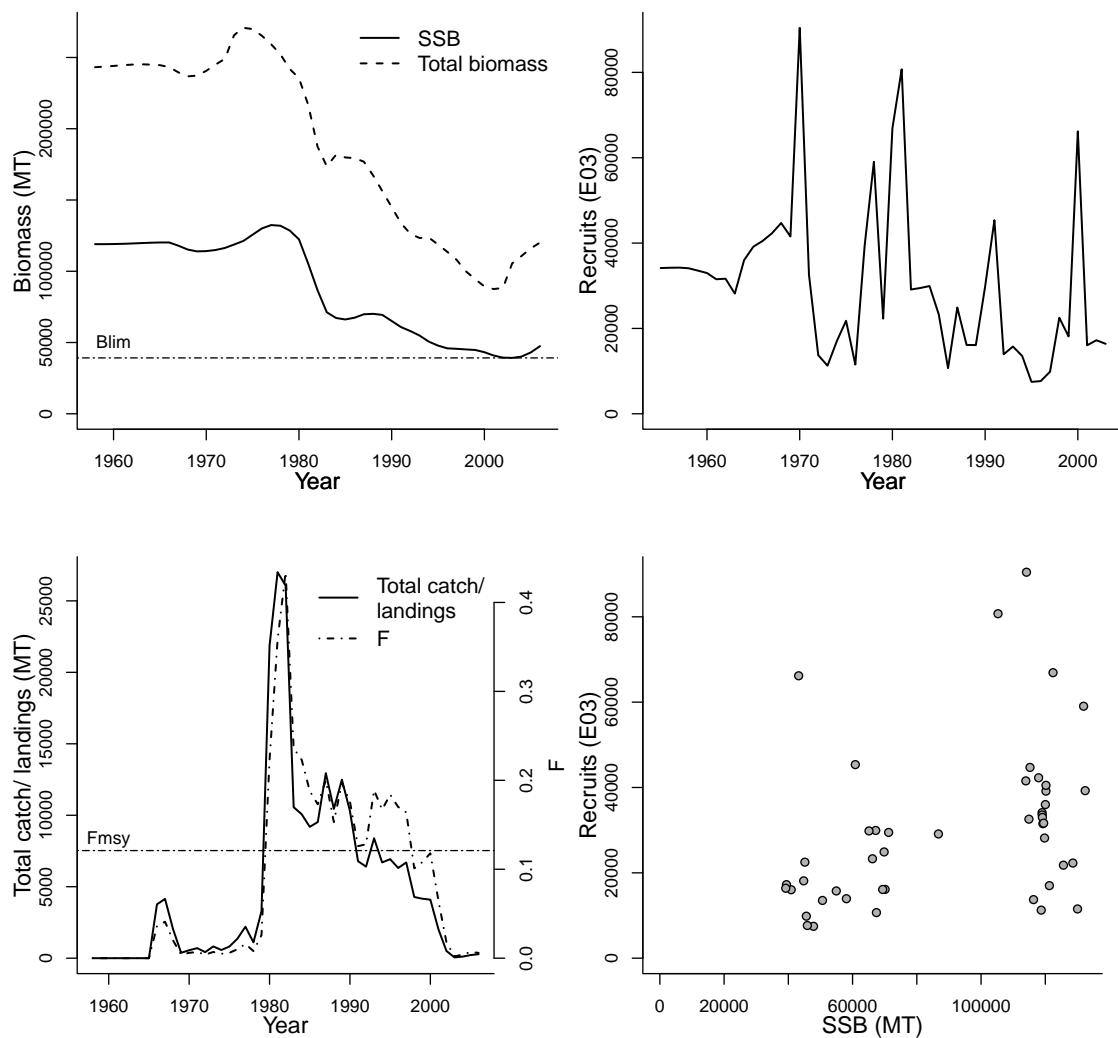
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	He X
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2007
Timeseries span	1955-2006
Document	NWFSC-WROCKCOAST-2007-widow.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2010-03-05
QA/QC complete	YES
Date approved	2010-03-08

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

primary LME			secondary LME		tertiary LME	
3 - California Current			na	na		
Reference points						
Parameter	Value	Units	Parameter	Value	Units	
SSB-SEX-sex	1	sex	BH-h-dimless	0.29	dimless	
REC-AGE-yr	3	yr	Blim-MT (TB)	39194	MT	
F-AGE-yr-yr	3+	yr-yr	SSBmsy-E06eggs (SSB)	20298	E06eggs	
TB-AGE-yr	3+	yr	Fmsy-1/yr (F)	0.121	1/yr	
M-1/yr	0.125	1/yr	SSB0-E06eggs (SSB)	50746	E06eggs	
SSB-AGE-yr			SSBtarget-E06eggs (SSB)	20298	E06eggs	
M			SSBmin-ratio (SSB)	0.25	ratio	
A50-yr			Ftarget-1/yr (F)	0.121	1/yr	
L50-cm			SPRtarget-ratio (SPR)	0.4	ratio	
			$F_{2006}/F_{msy}$	0.050		
			$SSB_{2006}/SSB_{msy}$	2.339		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1958	1955	1958	1958
Maximum year	2006	2003	2006	2006
Time series minimum	39194	7470	0	87514
Time series maximum	132416	90448	0.434	270818
Units	MT	E03	1/yr	MT



# Assessment of Pacific Coast yelloweye rockfish (*Sebastodes ruberrimus*)

Assessment ID:NWFSC-YEYEROCKCOAST-1923-2006-BRANCH  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/65>

Area ID: USA-NMFS-PCOAST

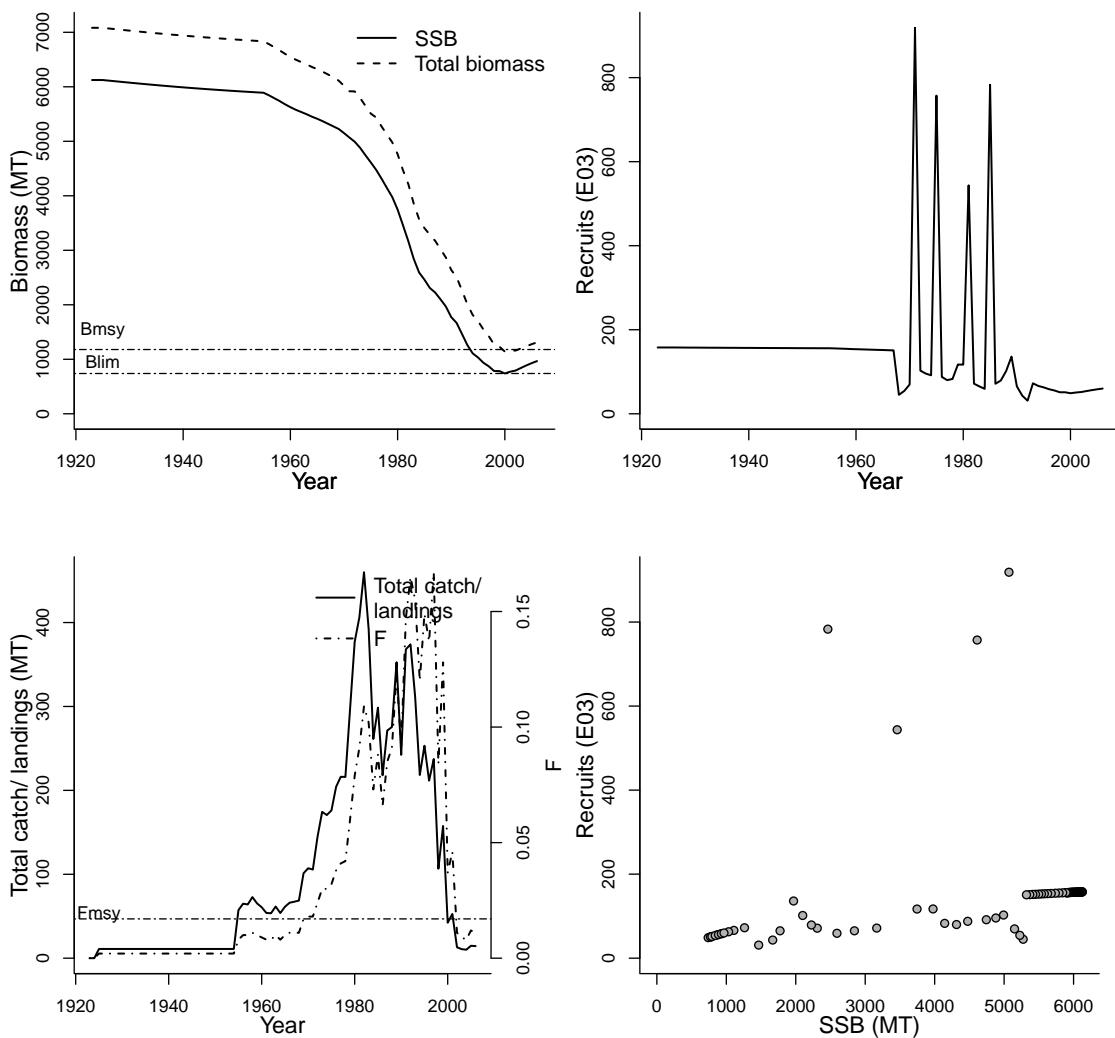
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Wallace GR
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1923-2006
Document	NWFSC-YEYEROCKCOAST-2007-yelloweye.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
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	
3 - California Current			na		na	
			Reference points			
Parameter	Value	Units	Parameter	Value	Units	
SSB-SEX-sex	1	sex	Blim-MT (TB)	739	MT	
REC-AGE-yr	0	yr	Bmsy-MT (TB)	1179	MT	
F-AGE-yr-yr	3+	yr-yr	Fmsy-1/yr (F)	0.017	1/yr	
TB-AGE-yr	1+	yr	SSB0-MT (SSB)	3062	MT	
L50-cm	36	cm	RO-E03 (R)	157.8	E03	
M-1/yr	0.036	1/yr	SSBtarget-MT (SSB)	1225	MT	
SSB-AGE-yr			SSBmin-ratio (SSB)	0.25	ratio	
M			Ftarget-1/yr (F)	0.018	1/yr	
A50-yr			SPRtarget-ratio (SPR)	0.4	ratio	
			MSY-MT (TB)	51.4	MT	
			BH-h-dimless	0.45	dimless	
			$TB_{2006}/B_{msy}$	1.111		
			$F_{2006}/F_{msy}$	0.647		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1923	1923	1923	1923
Maximum year	2006	2006	2006	2006
Time series minimum	739.11	31.2	0	1141
Time series maximum	6124.01	918.6	0.167	7082.2
Units	MT	E03	1/yr	MT



# Assessment of Northern Pacific Coast yellowtail rockfish (*Sebastodes flavidus*)

Assessment ID:NWFSC-YTROCKNPOAST-1967-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/335>

Area ID: USA-NMFS-NPCOAST

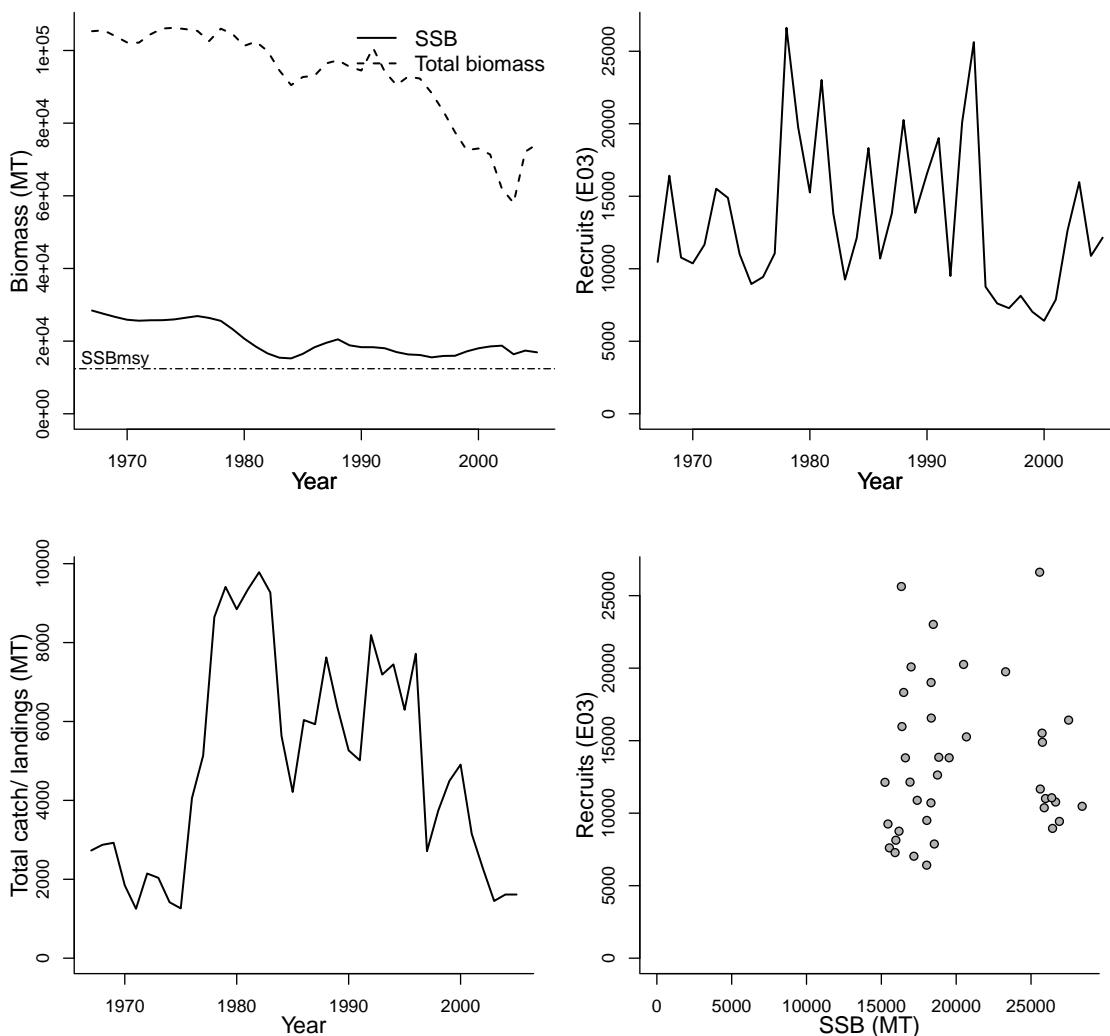
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Wallace, John
Assessment method	Stock Synthesis v1.0 model
Publication year	2005
Timeseries span	1967-2005
Document	2005_SAFE_yellowtail.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-19
Date last loaded	2010-03-19
QA/QC complete	NO
Date approved	2010-03-19

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

primary LME			secondary LME		tertiary LME	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	4+	yr	NATMORT-1/yr (M)	0.11	1/yr	
SSB-SEX-sex	NA	sex	SSBmsy-MT (SSB)	12407	MT	
REC-AGE-yr	4	yr	MSY-MT (TB)	4680	MT	
F-AGE-yr-yr	4	yr-yr	SSB0-MT (SSB)	31016	MT	
TB-AGE-yr	4+	yr	B0-MT	120024	MT	
M-1/yr	0.11	1/yr	$SSB_{2005}/SSB_{msy}$	1.363		
NATMORT-1/yr	0.11	1/yr				
M						
A50-yr						
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1967	1967		1967
Maximum year	2005	2005		2005
Time series minimum	15243.01	6414.92		58025
Time series maximum	28418.41	26616.3		106243
Units	MT	E03		MT



# Assessment of Iceland Grounds capelin (*Mallotus villosus*)

Assessment ID:NWWG-CAPEICE-1977-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/374>

Area ID: multinational-ICES-Va

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	acoustic surveys
Publication year	2007
Timeseries span	1977-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-10
Date last loaded	2010-07-18
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.

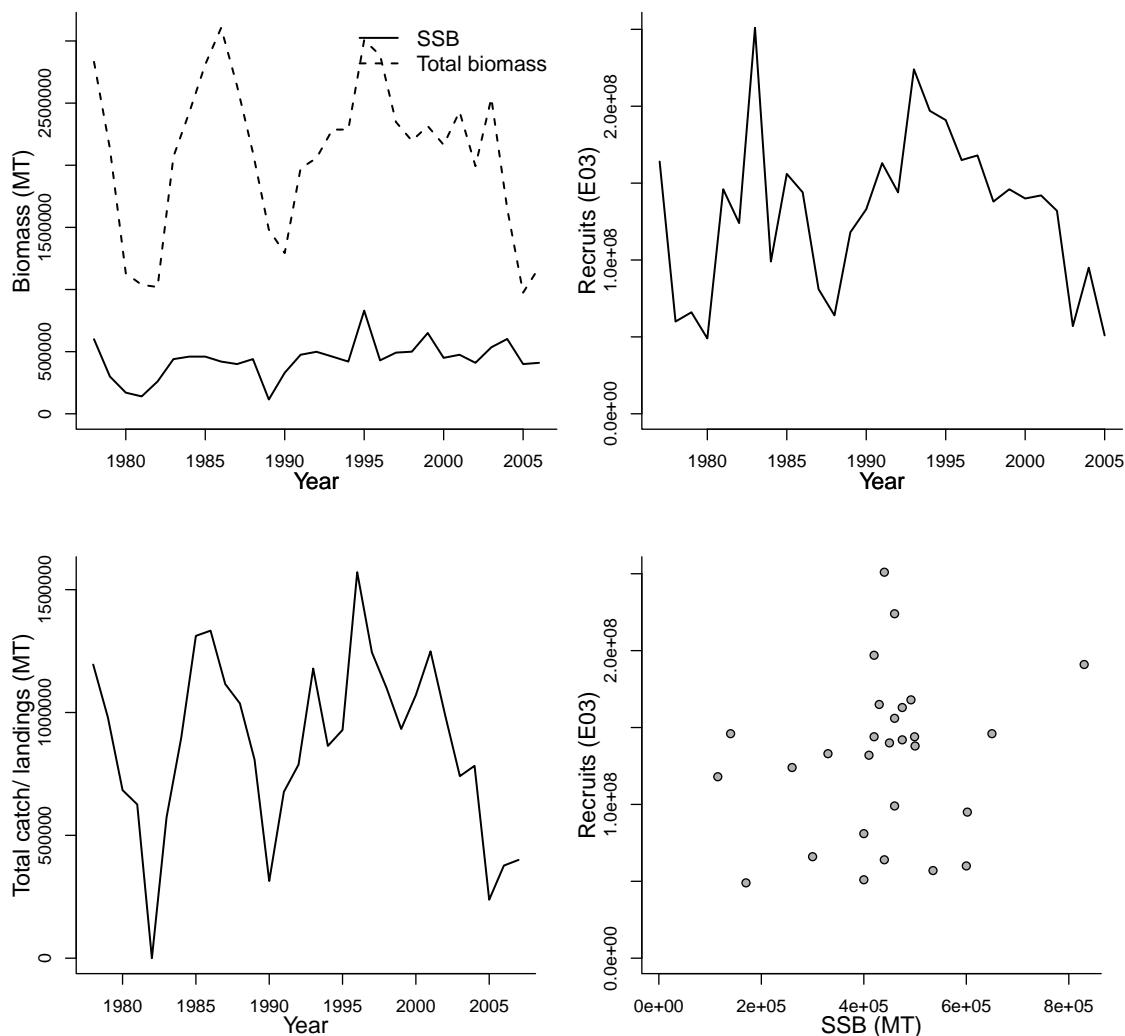
primary LME	secondary LME	tertiary LME
59 - Iceland Shelf	na	na
<hr/>		
Parameter	Value	Units
A50-yr	2	yr
SSB-AGE-yr	2+	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points

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Parameter	Value	Units
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Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1977		1978
Maximum year	2006	2005		2006
Time series minimum	115000	49000000		975000
Time series maximum	830000	251000000		3106000
Units	MT	E03	MT	MT



# Assessment of Faroe Plateau atlantic cod (*Gadus morhua*)

Assessment ID:NWWG-CODFAPL-1959-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/375>

Area ID: multinational-ICES-Vb1

General assessment details.

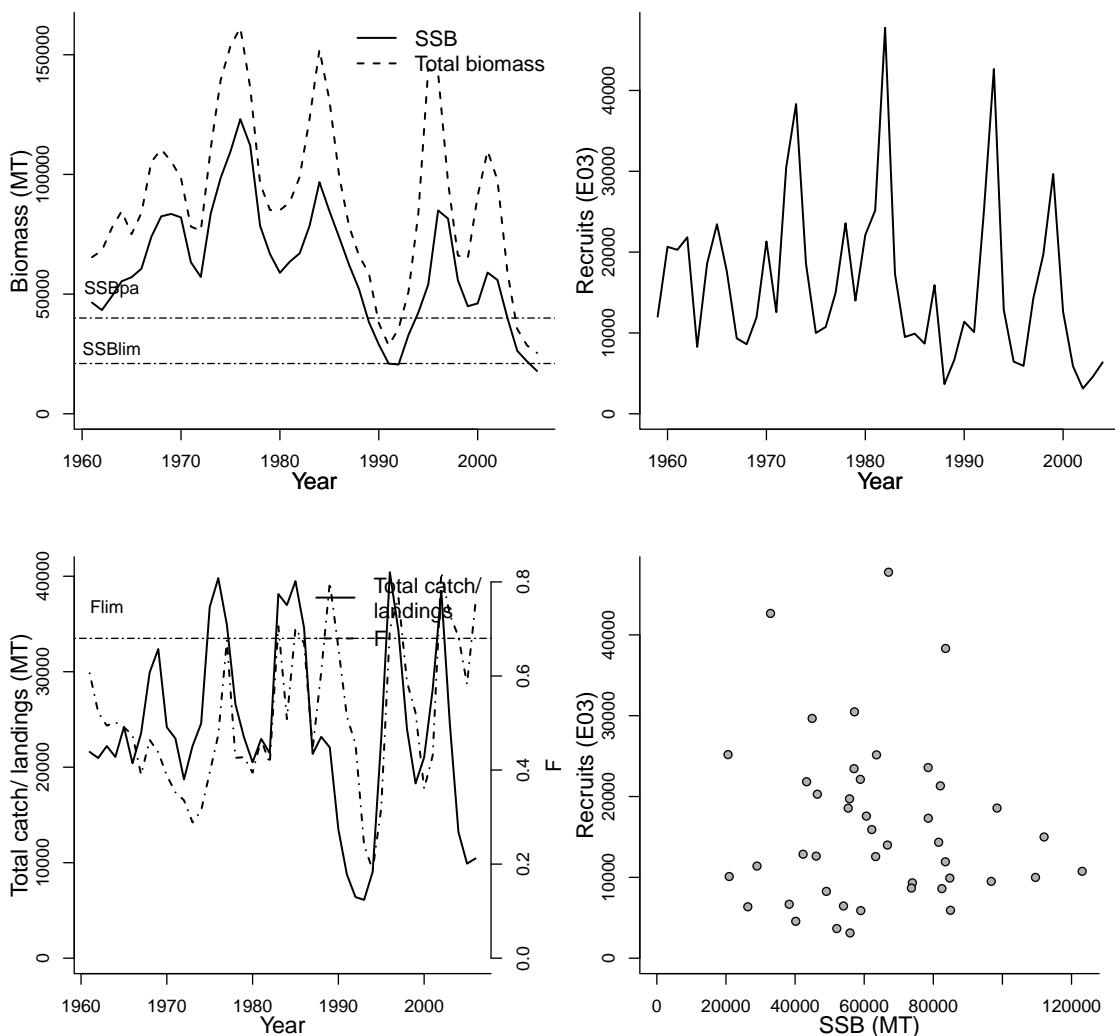
Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1959-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-08
Date last loaded	2010-07-18
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	
60 - Faroe Plateau			na	na		
Parameter	Value	Units	Parameter	Reference points	Value	Units
A50-yr	3	yr	SSBlim-MT (SSB)	SSBlim-MT (SSB)	21000	MT
SSB-AGE-yr	2+	yr	SSBpa-MT (SSB)	SSBpa-MT (SSB)	40000	MT
REC-AGE-yr	2	yr	F0.1-1/yr (F)	F0.1-1/yr (F)	0.12	1/yr
F-AGE-yr-yr	3-7	yr-yr	Fmax-1/T	Fmax-1/T	0.25	1/T
TB-AGE-yr	1+	yr	Flim-1/T (F)	Flim-1/T (F)	0.68	1/T
SSB-SEX-sex			Fpa-1/T (F)	Fpa-1/T (F)	0.35	1/T
M			SSB <sub>2006</sub> /SSB <sub>lim</sub>	SSB <sub>2006</sub> /SSB <sub>lim</sub>	0.851	
L50-cm			F <sub>2006</sub> /F <sub>lim</sub>	F <sub>2006</sub> /F <sub>lim</sub>	1.115	

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1961	1959	1961	1961	1961
Maximum year	2006	2004	2006	2006	2006
Time series minimum	17878	3128	0.1877	25436	6107
Time series maximum	123077	47753	0.8206	161260	40422
Units	MT	E03	1/T	MT	MT



# Assessment of Iceland Grounds atlantic cod

## *(Gadus morhua)*

Assessment ID:NWWG-CODICE-1952-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/376>

Area ID: multinational-ICES-Va

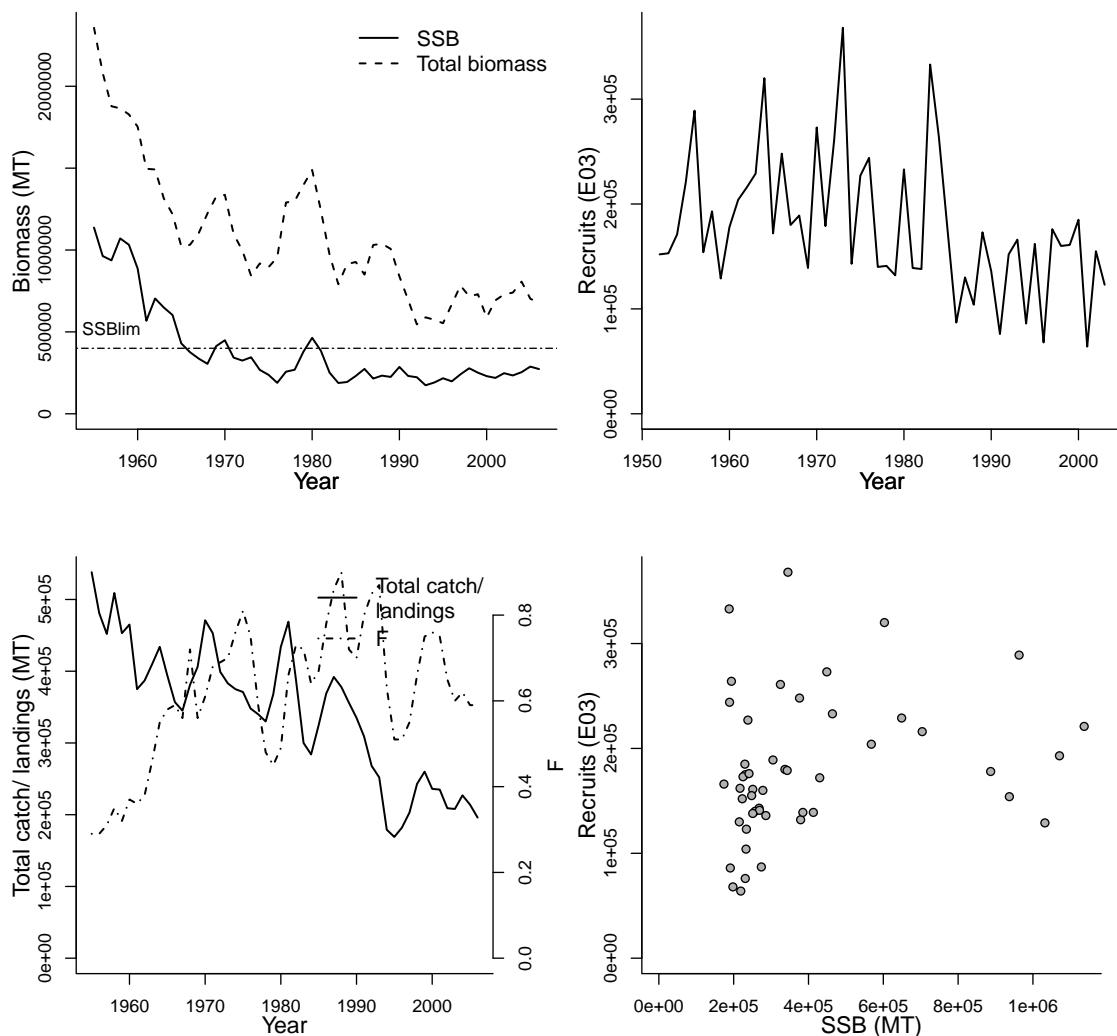
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1952-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-10
Date last loaded	2010-07-18
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		
59 - Iceland Shelf			na			na		
Parameter	Value	Units	Reference points					
			Parameter	Value	Units			
A50-yr	6.5	yr	SSBlim-MT (SSB)	400000	MT			
SSB-AGE-yr	3+	yr	F0.1-1/T	0.15	1/T			
REC-AGE-yr	3	yr	Fmax-1/T	0.34	1/T			
TB-AGE-yr	4+	yr	$SSB_{2006}/SSB_{lim}$	0.682				
M-1/T	0.25	1/T						
F-AGE-yr-yr	5-10	yr-yr						
SSB-SEX-sex								
M								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1955	1952	1955	1955
Maximum year	2006	2003	2006	2006
Time series minimum	174000	64000	0.29	546000
Time series maximum	1137000	368000	0.9	2357000
Units	MT	E03	1/T	MT



# Assessment of Faroe Plateau haddock

## (*Melanogrammus aeglefinus*)

Assessment ID:NWWG-HADFAPL-1955-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/377>

Area ID: multinational-ICES-Vb1

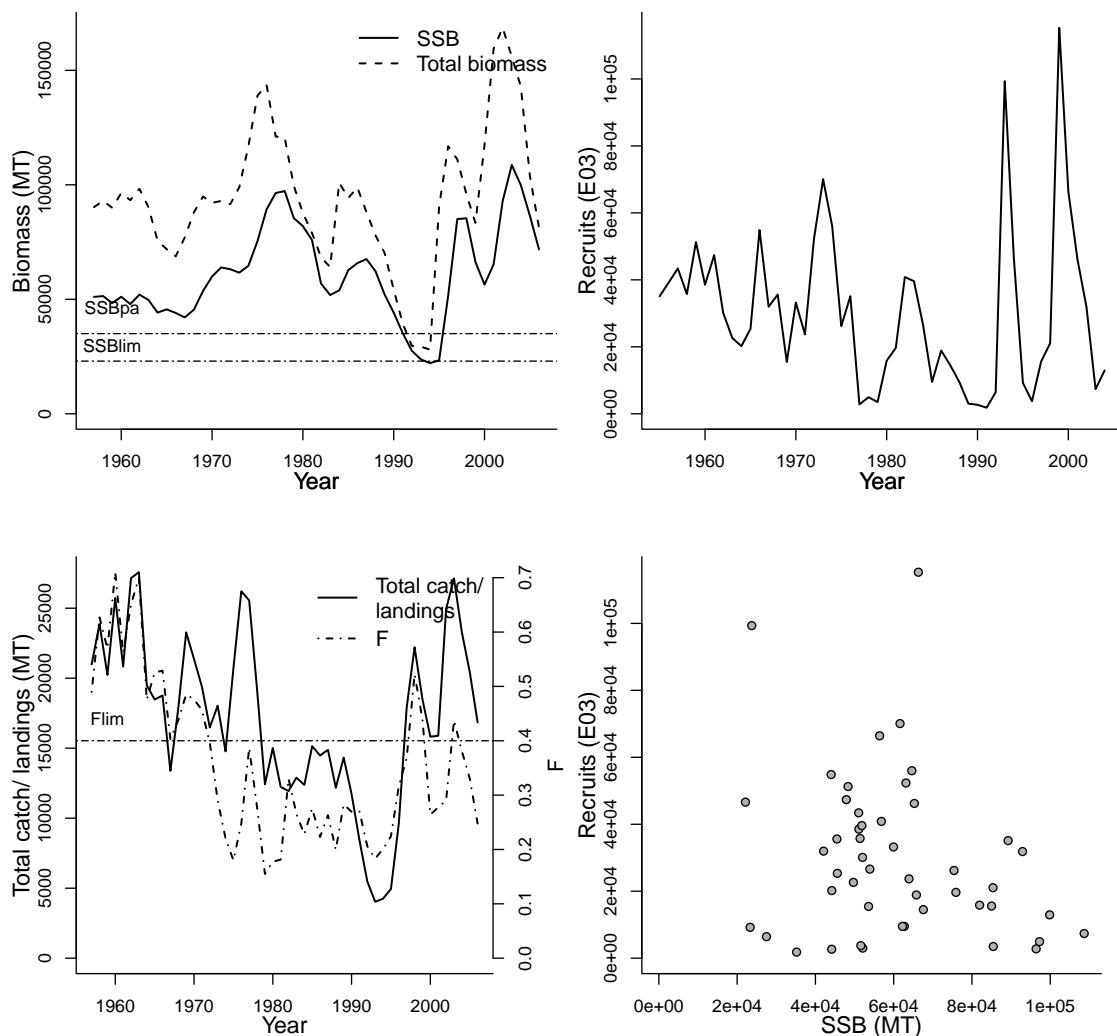
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1955-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-08
Date last loaded	2010-07-18
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	
60 - Faroe Plateau			na		na	
Parameter	Value	Units	Parameter	Reference points	Value	Units
A50-yr	3	yr	SSBlim-MT (SSB)	SSBlim-MT (SSB)	23000	MT
SSB-AGE-yr	2+	yr	SSBpa-MT (SSB)	SSBpa-MT (SSB)	35000	MT
REC-AGE-yr	2	yr	F0.1-1/T	F0.1-1/T	0.15	1/T
F-AGE-yr-yr	3-7	yr-yr	Fmax-1/T	Fmax-1/T	0.61	1/T
TB-AGE-yr	0+	yr	Flim-1/T (F)	Flim-1/T (F)	0.4	1/T
M-1/T	0.2	1/T	Fpa-1/T (F)	Fpa-1/T (F)	0.25	1/T
SSB-SEX-sex			SSB <sub>2006</sub> /SSB <sub>lim</sub>	SSB <sub>2006</sub> /SSB <sub>lim</sub>	3.121	
M			F <sub>2006</sub> /F <sub>lim</sub>	F <sub>2006</sub> /F <sub>lim</sub>	0.619	
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1957	1955	1957	1957
Maximum year	2006	2004	2006	2006
Time series minimum	22125	1826	0.155	27998
Time series maximum	108674	115282	0.7101	168570
Units	MT	E03	1/T	MT



# Assessment of Iceland Grounds haddock

## (*Melanogrammus aeglefinus*)

Assessment ID:NWWG-HADICE-1977-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/378>

Area ID: multinational-ICES-Va

### General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1977-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-10
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

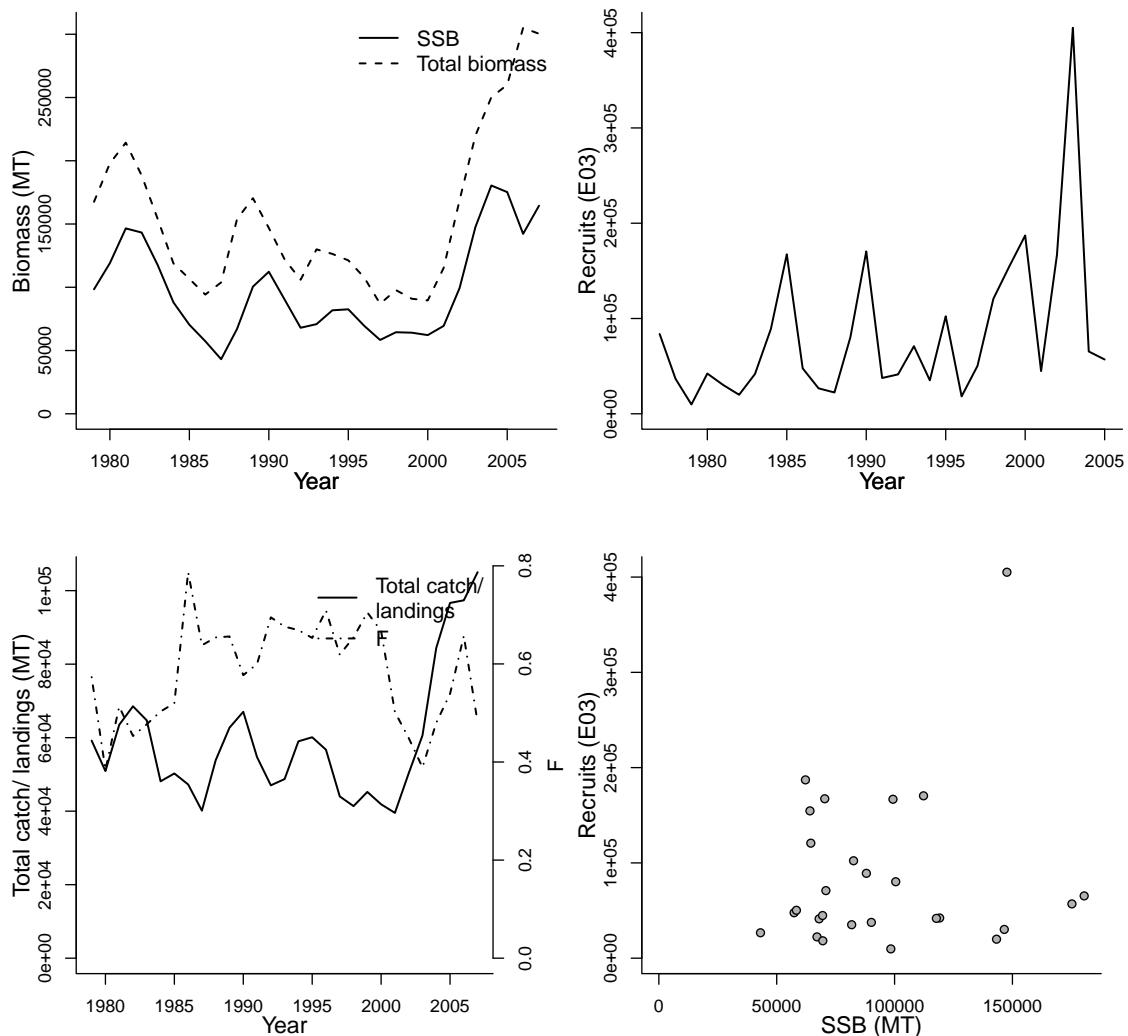
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
59 - Iceland Shelf	na	na
<hr/>		
Parameter	Value	Units
A50-yr	4	yr
SSB-AGE-yr	1+	yr
REC-AGE-yr	2	yr
TB-AGE-yr	3+	yr
M-1/T	0.2	1/T
F-AGE-yr-yr	4-7	yr-yr
SSB-SEX-sex		
M		
L50-cm		

Reference points

Parameter	Value	Units
F0.1-1/T	0.16	1/T
Fmax-1/T	0.44	1/T
Fpa-1/T (F)	0.47	1/T

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1979	1977	1979	1979
Maximum year	2007	2005	2007	2007
Time series minimum	43116	9758	0.384	86966
Time series maximum	180435	405094	0.787	305098
Units	MT	E03	1/T	MT



# Assessment of Faroe Plateau pollock (*Pollachius virens*)

Assessment ID:NWWG-POLLFAPL-1958-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/379>

Area ID: multinational-ICES-Vb1

## General assessment details.

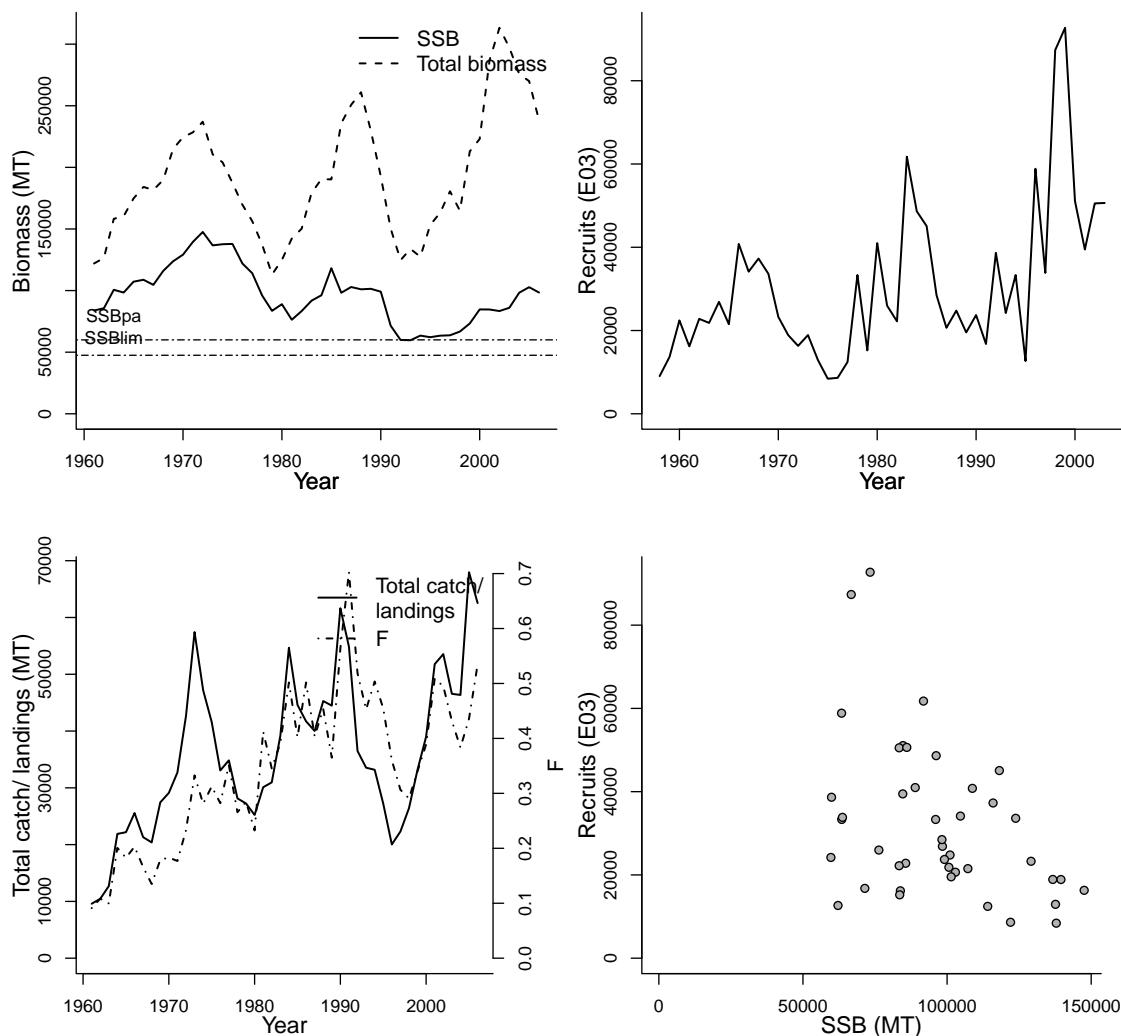
Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1958-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-09
Date last loaded	2010-07-18
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	
60 - Faroe Plateau			na		na	
Parameter	Value	Units	Reference points			
			Parameter	Value	Units	
A50-yr	5	yr	SSBlim-MT (SSB)	47500	MT	
SSB-AGE-yr	3+	yr	SSBpa-MT (SSB)	60000	MT	
REC-AGE-yr	3	yr	F0.1-1/T	0.14	1/T	
F-AGE-yr-yr	4-8	yr-yr	Fmax-1/T	0.45	1/T	
TB-AGE-yr	3+	yr	Fpa-1/T (F)	0.5	1/T	
M-1/T	0.2	1/T	SSB <sub>2006</sub> /SSB <sub>lim</sub>	2.072		
SSB-SEX-sex						
M						
L50-cm						

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1961	1958	1961	1961	1961
Maximum year	2006	2003	2006	2006	2006
Time series minimum	59693	8415	0.0911	113051	9592
Time series maximum	147569	92717	0.7025	313275	67972
Units	MT	E03	1/T	MT	MT



# Assessment of West end of Chatham Rise black oreo (*Allocyttus niger*)

## Assessment

ID:NZMFishDEEPWATER-BLACKOREOWECR-1973-2007-JENSEN  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/220>

Area ID: New Zealand-MFish-WEGR

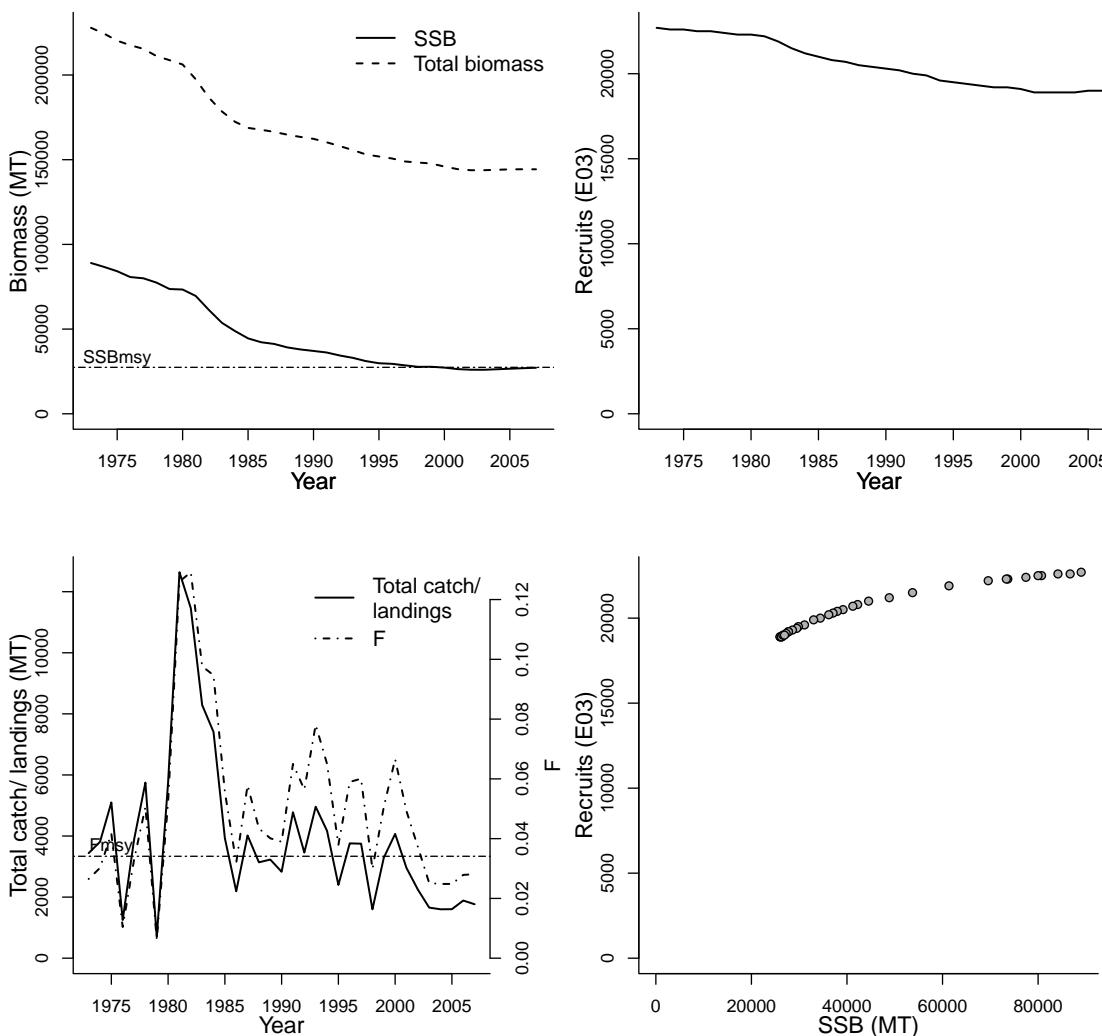
### General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1973-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
TB-AGE-yr	1	yr	SSB0-MT (SSB)	88923	MT
A50-yr	38	yr	MSY-MT (TB)	1947	MT
M-1/yr	0.044	1/yr	SSBmsy-MT (SSB)	27427	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.0341	1/yr
SSB-SEX-sex			BH-h-dimless	0.75	dimless
F-AGE-yr			$F_{2007}/F_{msy}$	0.825	
M			$SSB_{2007}/SSB_{msy}$	0.991	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1973	1973	1973	1973
Maximum year	2007	2006	2007	2007	2007
Time series minimum	25981.7	18900	0.006334863	143796	709.97
Time series maximum	89015.2	22700	0.1291476	227865	12638.29
Units	MT	E03	1/yr	MT	MT



# Assessment of Chatham Rise smooth oreo (*Pseudocyttus maculatus*)

## Assessment

ID:NZMFishDEEPWATER-SMOOTHOREOCR-1979-2006-JENSEN  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/423>

Area ID: New Zealand-MFish-CR

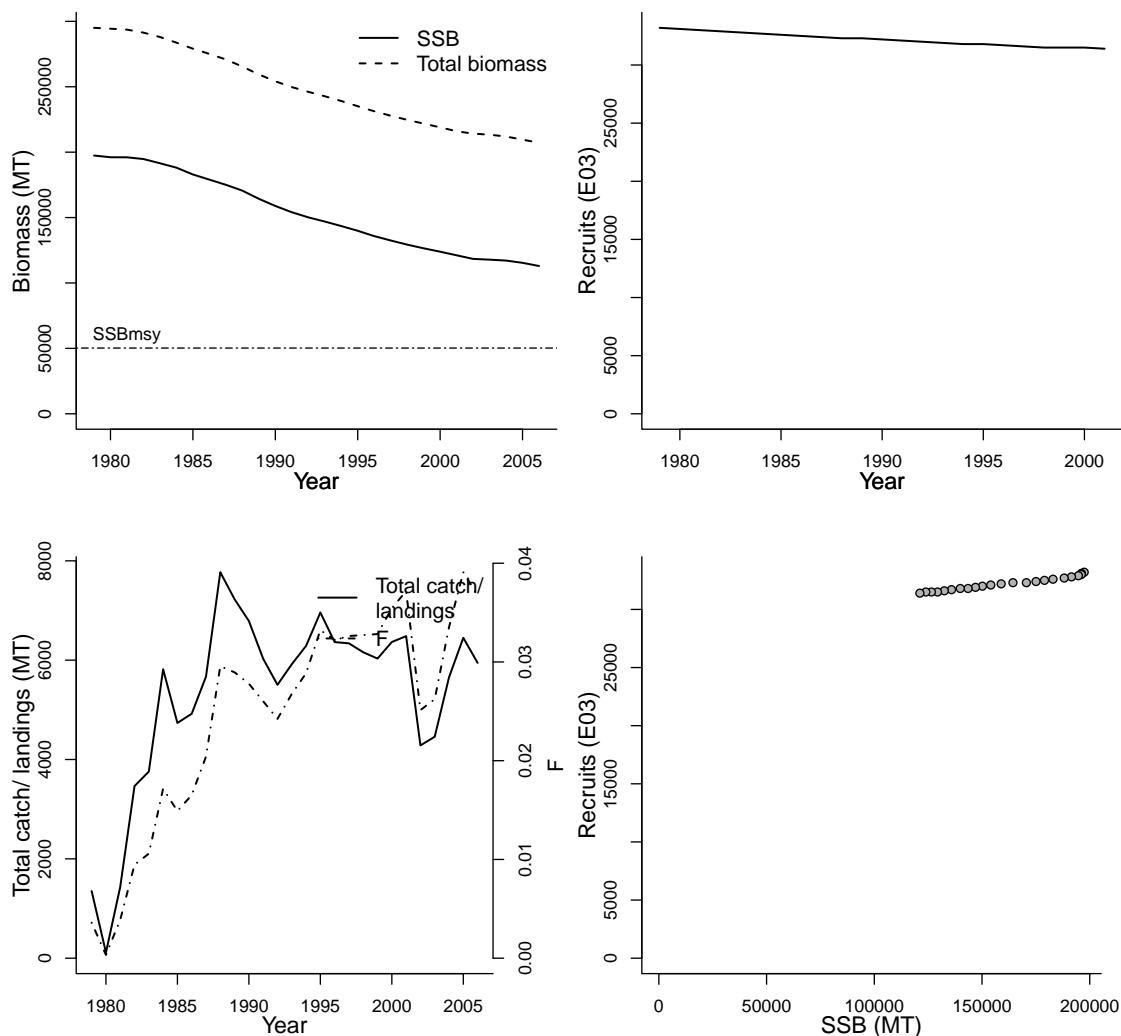
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1979-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-11-05
Date last loaded	2010-07-19
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	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	5	yr	Parameter	Value	Units
TB-AGE-yr	5	yr	Fmsy-1/yr (F)	0.0955	1/yr
A50-yr	30.5	yr	MSY-MT (TB)	5132.855	MT
M-1/yr	0.063	1/yr	SSBmsy-MT (SSB)	50242.75375	MT
SSB-AGE-yr			SSBO-MT (SSB)	197417.5	MT
SSB-SEX-sex			BH-h-dimless	0.75	dimless
F-AGE-yr			$F_{2006}/F_{msy}$	0.385	
M			$SSB_{2006}/SSB_{msy}$	2.249	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1979	1979	1979	1979	1979
Maximum year	2006	2001	2006	2006	2006
Time series minimum	112982.4	31400	0.0003339579	207166	114
Time series maximum	197417.5	33200	0.03908979	295065	7771
Units	MT	E03	1/yr	MT	MT



# Assessment of West end of Chatham Rise smooth oreo (*Pseudocyttus maculatus*)

## Assessment

ID:NZMFishDEEPWATER-SMOOTHOREOWECR-1973-2004-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/221>

Area ID: New Zealand-MFish-WEGR

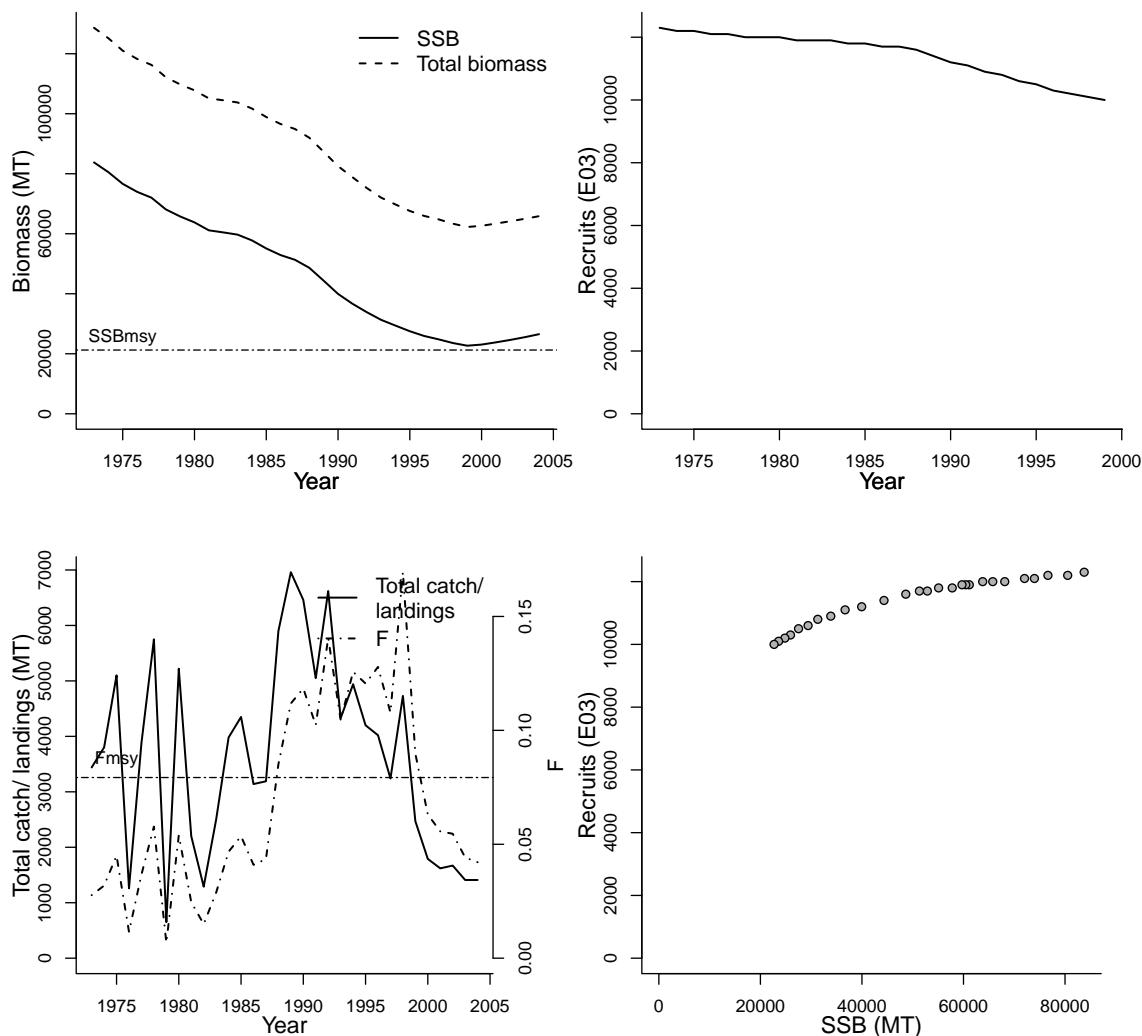
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1973-2004
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	5	yr	Parameter	Value	Units
TB-AGE-yr	5	yr	Fmsy-1/yr (F)	0.0793	1/yr
A50-yr	25.5	yr	MSY-MT (TB)	2218.0808	MT
M-1/yr	0.063	1/yr	SSBmsy-MT (SSB)	21242.3892	MT
SSB-AGE-yr			SSB0-MT (SSB)	85310.8	MT
SSB-SEX-sex			BH-h-dimless	0.75	dimless
F-AGE-yr			$F_{2004}/F_{msy}$	0.531	
M			$SSB_{2004}/SSB_{msy}$	1.249	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1973	1973	1973	1973
Maximum year	2004	1999	2004	2004
Time series minimum	22693.3	10000	0.006769455	62262
Time series maximum	83773.4	12300	0.1694174	128639
Units	MT	E03	1/yr	MT



# Assessment of Eastern New Zealand hoki (*Macruronus novaezelandiae*)

Assessment ID:NZMFishHOKIWG-HOKIENZ-1972-2007-FRANCIS  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/360>

Area ID: New Zealand-MFish-ENZ

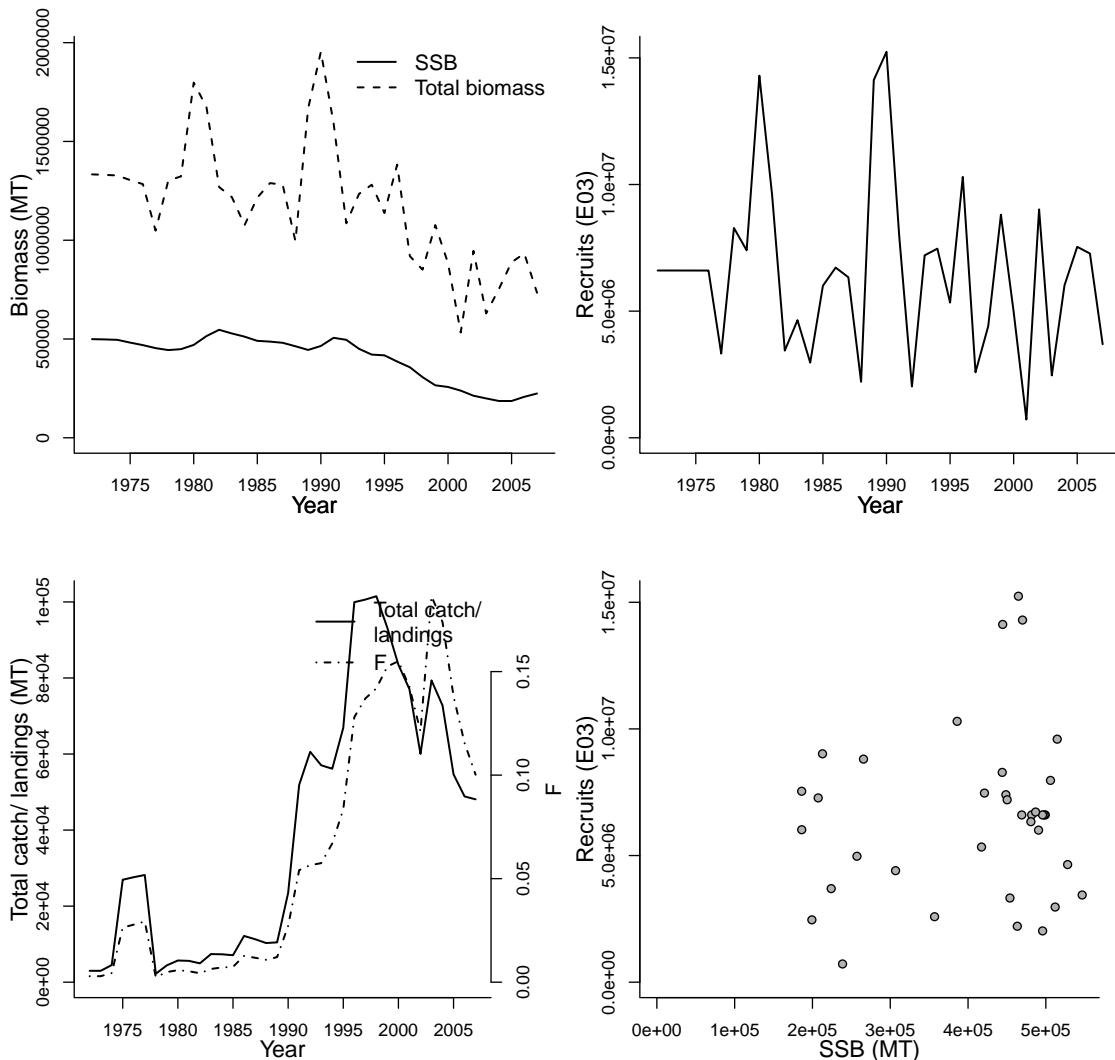
## General assessment details.

Detail	Value
Management body	MFish
Assessment group	Hoki Working Group
Assessment authors	Francis, R.I.C.C.
Assessment method	CASAL
Publication year	2008
Timeseries span	1972-2007
Document	FAR0804hok07.pdf (pdf in database)
Recorder	FRANCIS
Date entered	2008-09-18
Date last loaded	2010-07-19
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
46 - New Zealand Shelf		na	na	
Parameter	Value	Units		
SSB-AGE-yr		yr		
SSB-SEX-sex	0	sex		
REC-AGE-yr	2	yr	Reference points	
F-AGE-yr-yr		yr-yr	Parameter	Value
TB-AGE-yr	1	yr	BH-h-dimless	0.75
A50-yr		yr		dimless
M-1/yr		1/yr		
M				
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1972	1972	1972	1972
Maximum year	2007	2007	2007	2007
Time series minimum	186148	720110	0.0024	532901
Time series maximum	546701	15239500	0.1864	1953697
Units	MT	E03	none	MT



# Assessment of Western New Zealand hoki (*Macruronus novaezelandiae*)

Assessment ID:NZMFishHOKIWG-HOKIWNZ-1972-2007-FRANCIS  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/359>

Area ID: New Zealand-MFish-WNZ

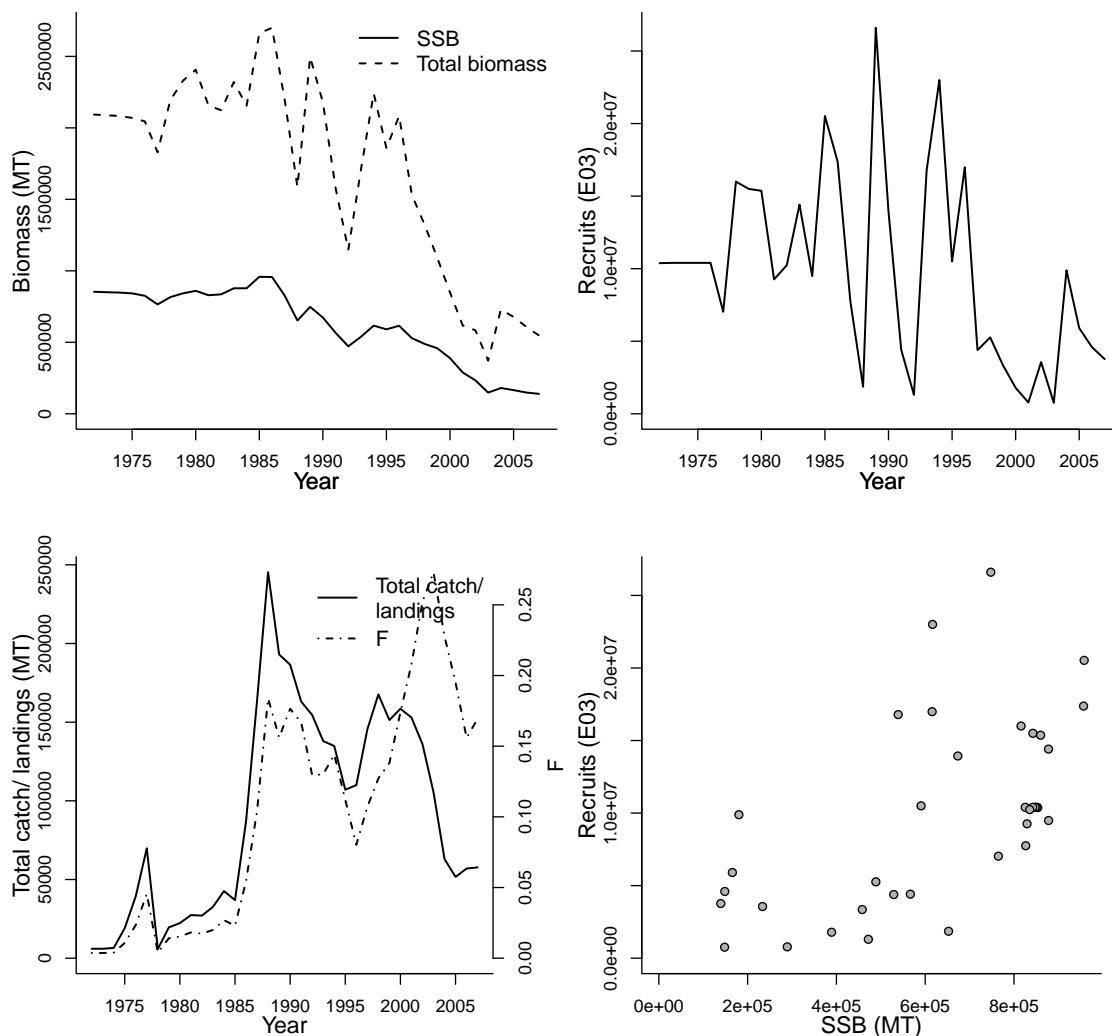
## General assessment details.

Detail	Value
Management body	MFish
Assessment group	Hoki Working Group
Assessment authors	Francis, R.I.C.C.
Assessment method	CASAL
Publication year	2008
Timeseries span	1972-2007
Document	FAR0804hok07.pdf (pdf in database)
Recorder	FRANCIS
Date entered	2008-09-18
Date last loaded	2010-07-21
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
46 - New Zealand Shelf		na		na
Parameter Value Units				
SSB-AGE-yr		yr		
SSB-SEX-sex	0	sex		
REC-AGE-yr	2	yr	Reference points	
F-AGE-yr-yr		yr-yr	Parameter	Value Units
TB-AGE-yr	1	yr	BH-h-dimless	0.75 dimless
A50-yr		yr		
M-1/yr		1/yr		
M				
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1972	1972	1972	1972
Maximum year	2007	2007	2007	2007
Time series minimum	139515	758594	0.0037	371333
Time series maximum	958163	26599700	0.2731	2700076
Units	MT	E03	none	MT



# Assessment of New Zealand Area 8 (Auckland and Central West) new zealand snapper (*Chrysophrys auratus*)

Assessment

ID:NZMFishINSHOREWG-NZSNAPNZ8-1931-2005-JENSEN  
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/193>

Area ID: New Zealand-MFish-8

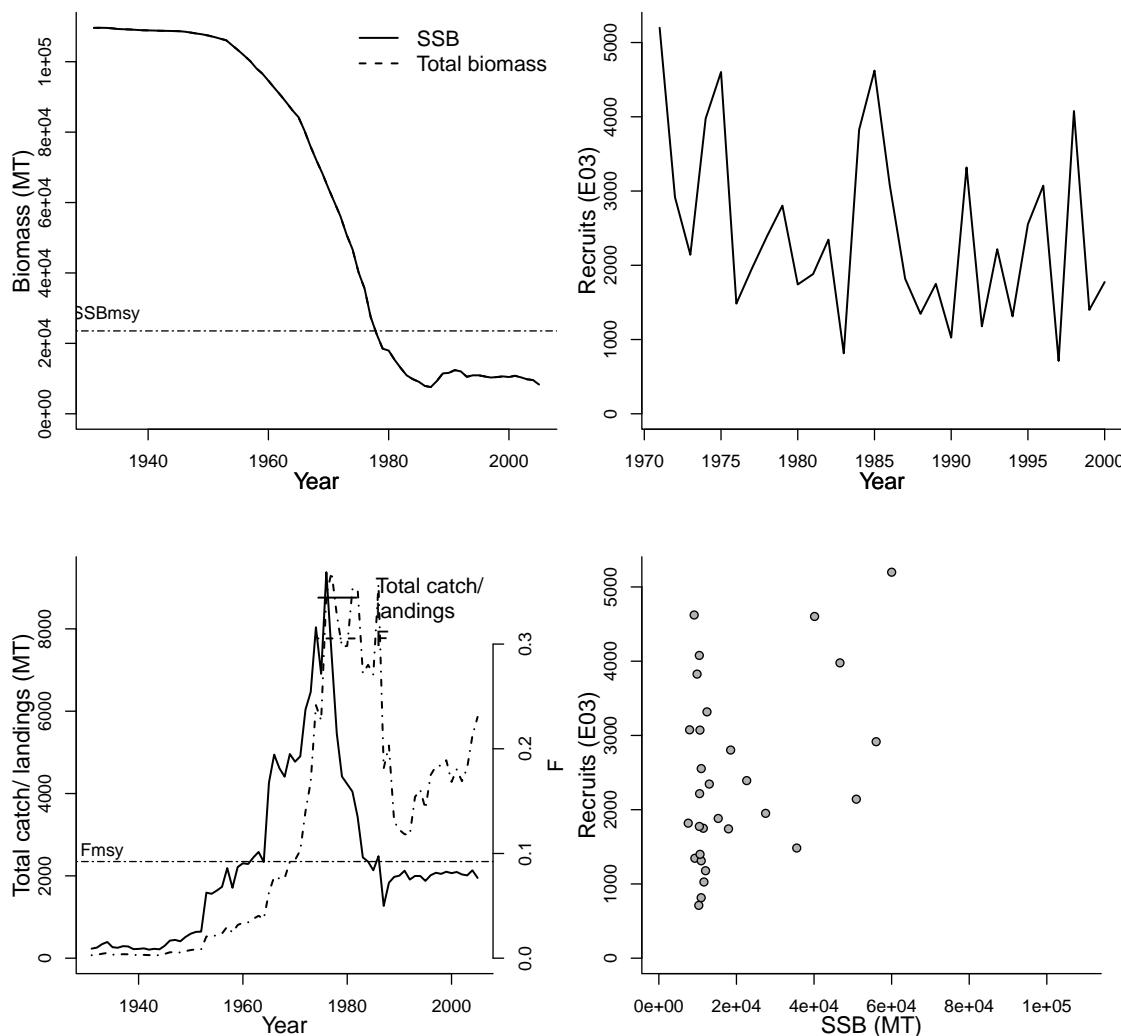
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Inshore Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1931-2005
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-24
Date last loaded	2010-07-19
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
46 - New Zealand Shelf			na	na
Parameter	Value	Units	Reference points	
REC-AGE-yr	3	yr	Parameter	Value
TB-AGE-yr	3	yr	Fmsy-1/yr (F)	0.0923
A50-yr	3	yr	MSY-MT (TB)	2284.7076
M-1/yr	0.0507649	1/yr	SSBmsy-MT (SSB)	23536.1148
SSB-AGE-yr			SSB0-MT (SSB)	120884
SSB-SEX-sex			BH-h-dimless	1
F-AGE-yr			$F_{2005}/F_{msy}$	2.497
M			$SSB_{2005}/SSB_{msy}$	0.353
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1931	1971	1931	1931	1931
Maximum year	2005	2000	2005	2005	2005
Time series minimum	7570.19	711.922	0.002787383	7570.19	207.95
Time series maximum	109631	5198.47	0.3686518	109631	9376.26
Units	MT	E03	1/yr	MT	MT



# Assessment of New Zealand Areas TRE 7 trevally (*Pseudocaranx dentex*)

## Assessment

ID:NZMFishINSHOREWG-TREVALLYTRE7-1944-2005-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/189>

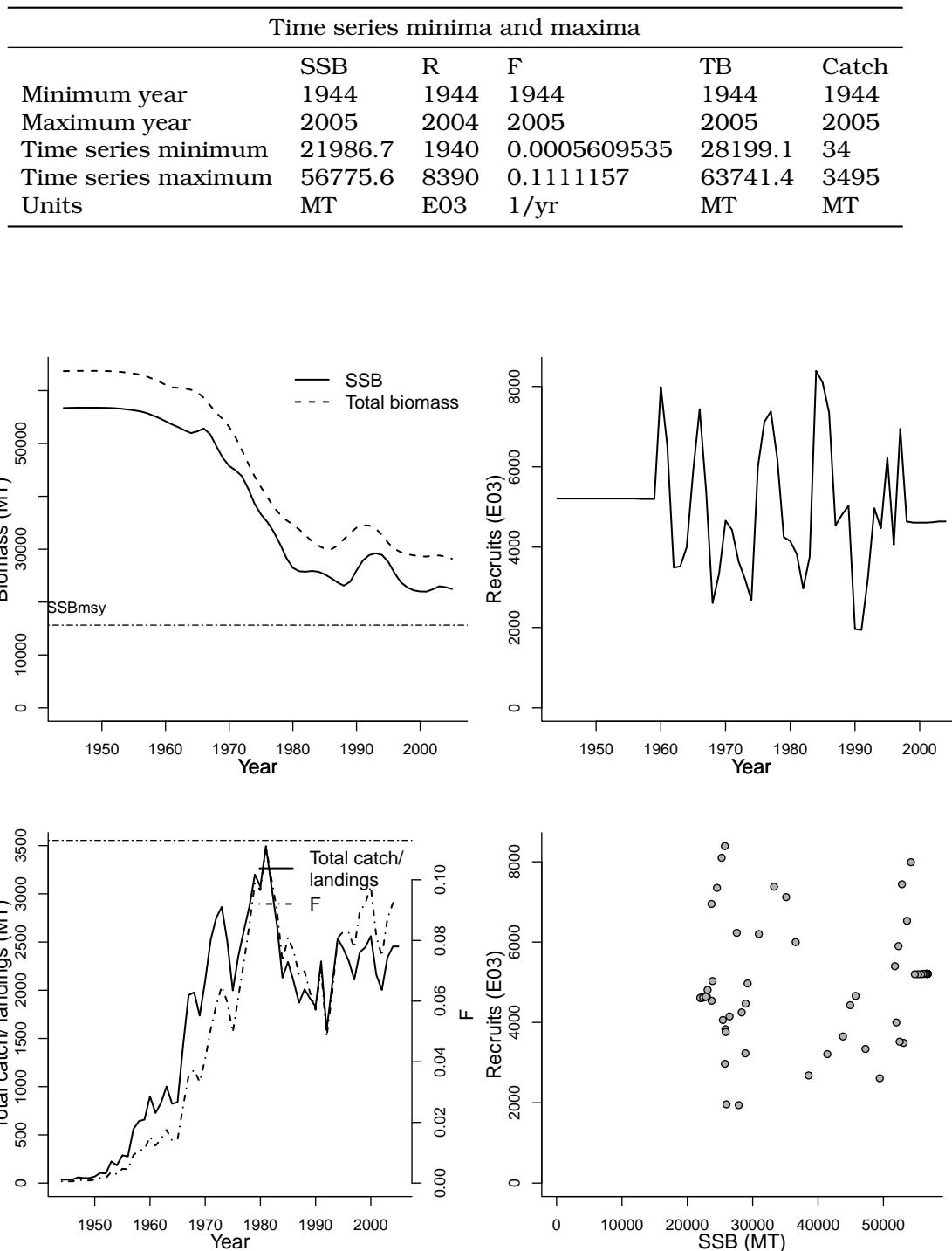
Area ID: New Zealand-MFish-TRE7

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Inshore Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1944-2005
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
TB-AGE-yr	1	yr	Fmsy-1/yr (F)	0.113	1/yr
A50-yr	5	yr	MSY-MT (TB)	2170.41121	MT
M-1/yr	0.1	1/yr	SSBmsy-MT (SSB)	15634.89433	MT
SSB-AGE-yr			SSB0-MT (SSB)	56668.7	MT
SSB-SEX-sex			BH-h-dimless	0.75	dimless
F-AGE-yr			$F_{2005}/F_{msy}$	0.830	
M			$SSB_{2005}/SSB_{msy}$	1.437	
L50-cm					



# Assessment of New Zealand Area CRA1 red rock lobster (*Jasus edwardsii*)

## Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA1-1945-2001-JENSEN  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/223>

Area ID: New Zealand-MFish-CRA1

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2001
Document	PALLSTARperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

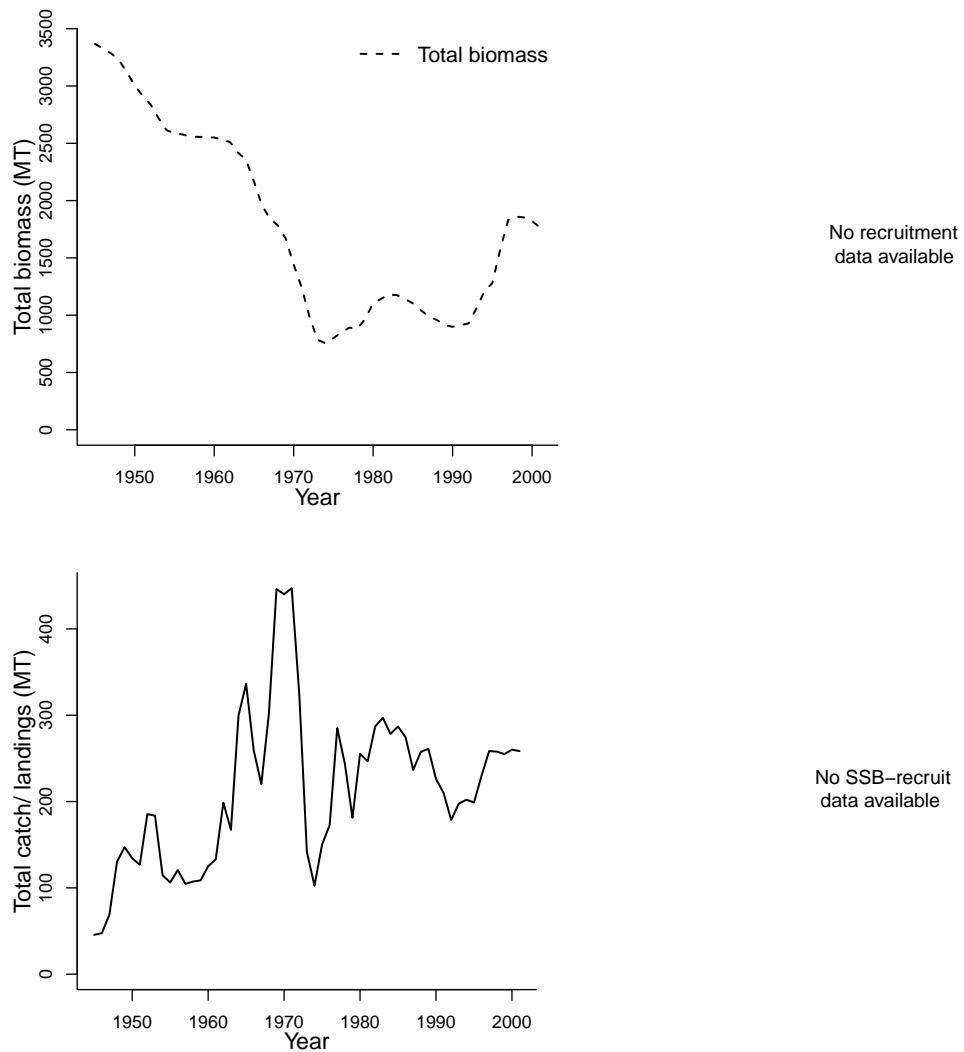
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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	Catch
Minimum year				1945
Maximum year				2001
Time series minimum				754.296
Time series maximum				3368.26
Units				MT



# Assessment of New Zealand Area CRA2 red rock lobster (*Jasus edwardsii*)

## Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA2-1945-2001-JENSEN  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/224>

Area ID: New Zealand-MFish-CRA2

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2001
Document	PALLSTARperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

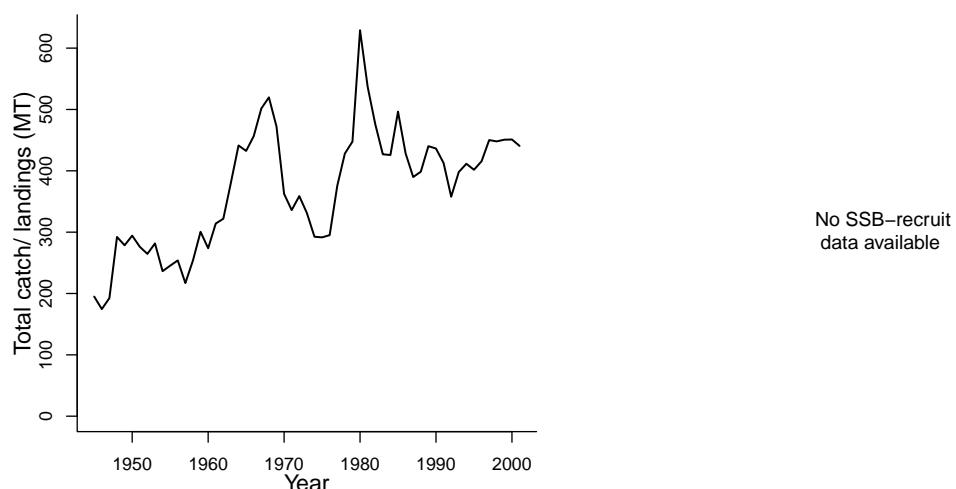
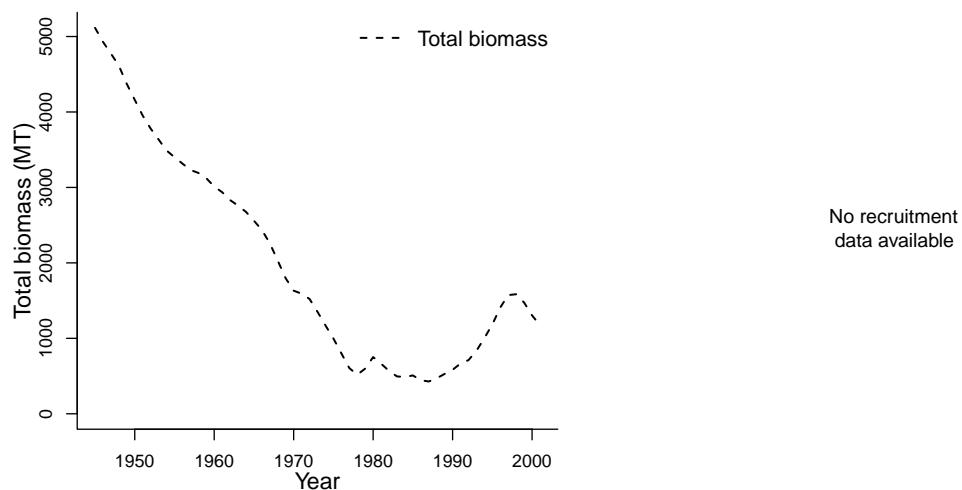
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year				1945
Maximum year				2001
Time series minimum				427.88
Time series maximum				5115.49
Units				MT



# Assessment of New Zealand Area CRA3 red rock lobster (*Jasus edwardsii*)

## Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA3-1945-2007-JENSEN  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/225>

Area ID: New Zealand-MFish-CRA3

### General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2007
Document	PALLSTARperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

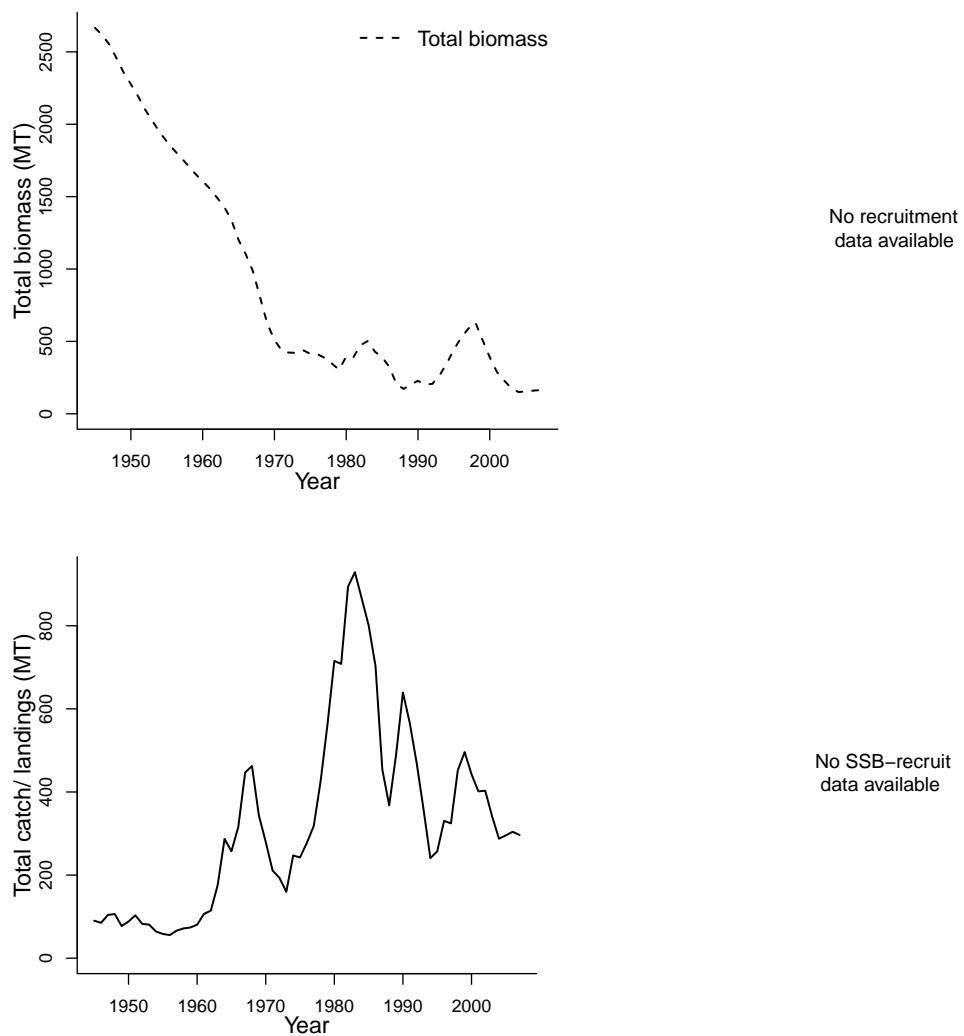
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year				1945
Maximum year				2007
Time series minimum				150.126
Time series maximum				2666.275
Units				MT



# Assessment of New Zealand Area CRA4 red rock lobster (*Jasus edwardsii*)

## Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA4-1945-2005-JENSEN  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/226>

Area ID: New Zealand-MFish-CRA4

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2005
Document	PALLSTARperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

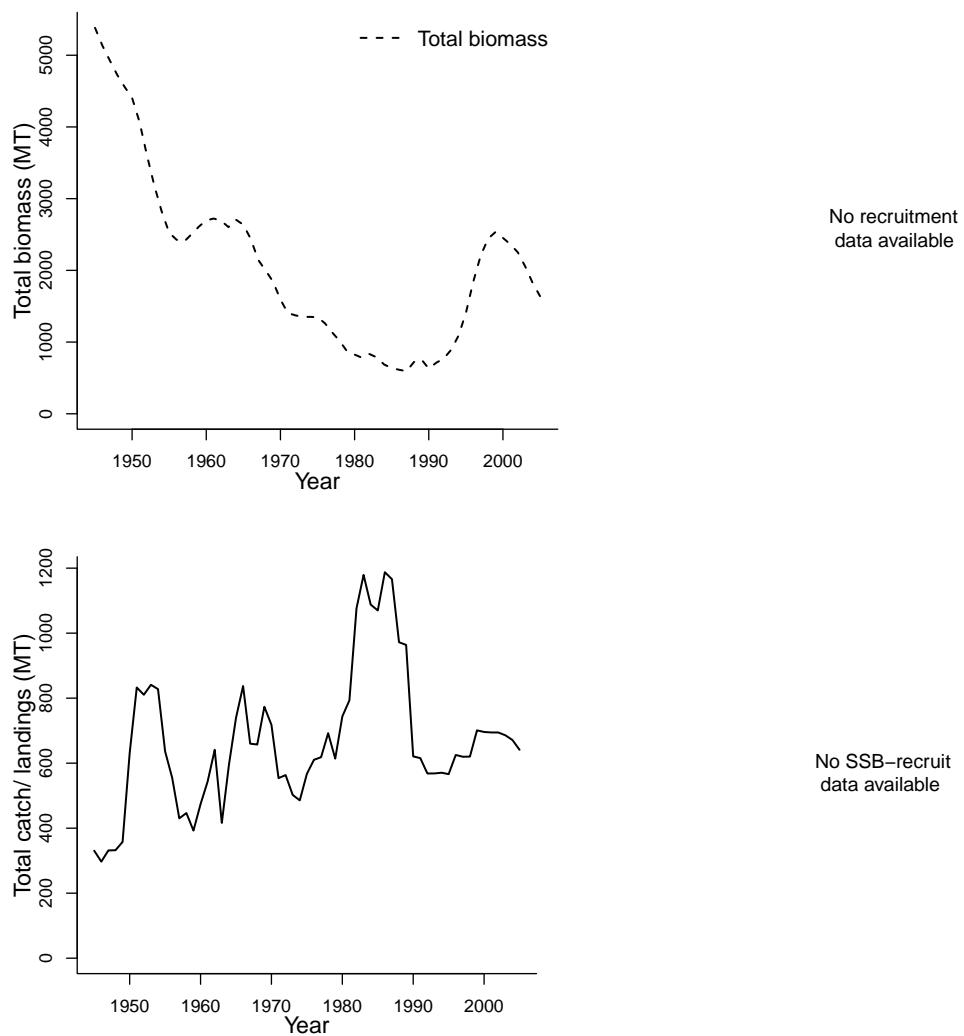
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year				1945
Maximum year				2005
Time series minimum				593.7095
Time series maximum				5382.51
Units				MT
				Catch
				297.03
				1187.51



# Assessment of New Zealand Area CRA5 red rock lobster (*Jasus edwardsii*)

## Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA5-1945-2002-JENSEN  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/227>

Area ID: New Zealand-MFish-CRA5

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2002
Document	PALLSTARperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

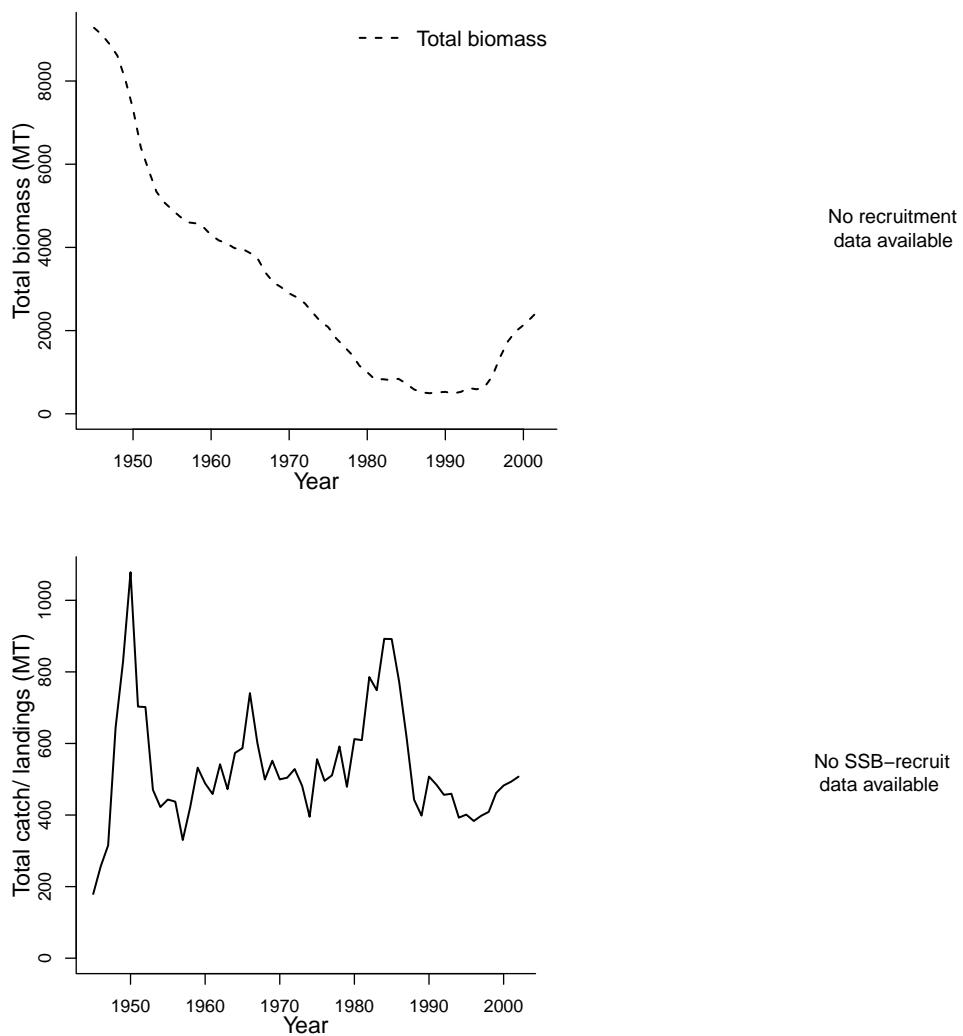
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year				1945
Maximum year				2002
Time series minimum				488.143
Time series maximum				9279.575
Units				MT



# Assessment of New Zealand Area CRA7 red rock lobster (*Jasus edwardsii*)

## Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA7-1976-2005-JENSEN  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/228>

Area ID: New Zealand-MFish-CRA7

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1976-2005
Document	PALLSTARperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

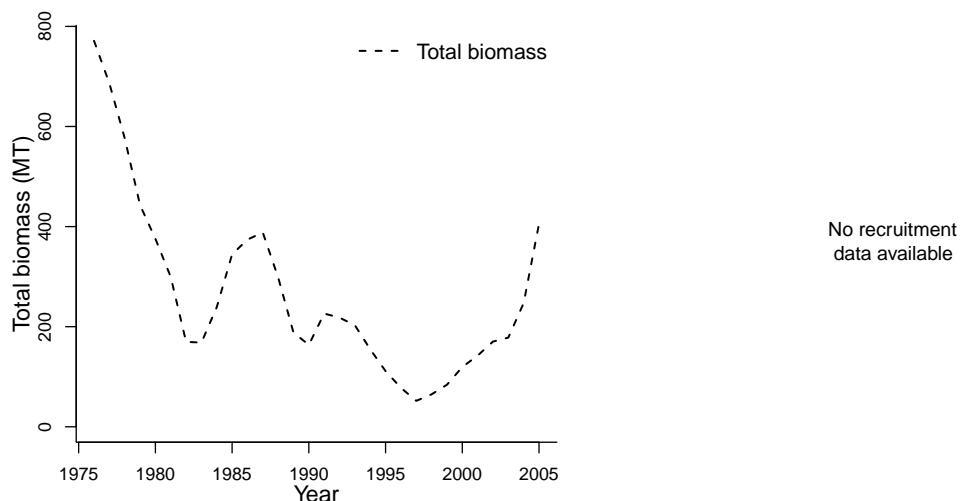
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year				1976
Maximum year				2005
Time series minimum				51.77465
Time series maximum				771.2135
Units				MT



# Assessment of New Zealand Area CRA8 red rock lobster (*Jasus edwardsii*)

## Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA8-1976-2005-JENSEN  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/229>

Area ID: New Zealand-MFish-CRA8

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1976-2005
Document	PALLSTARperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

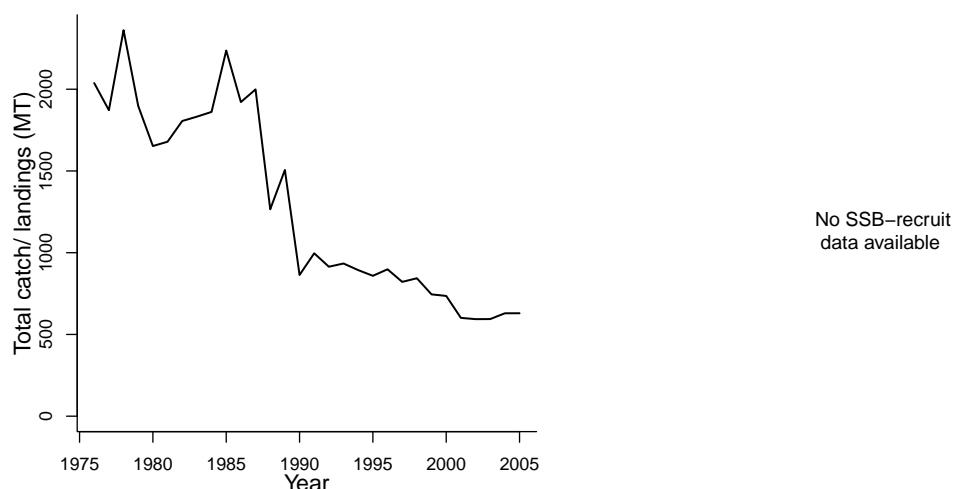
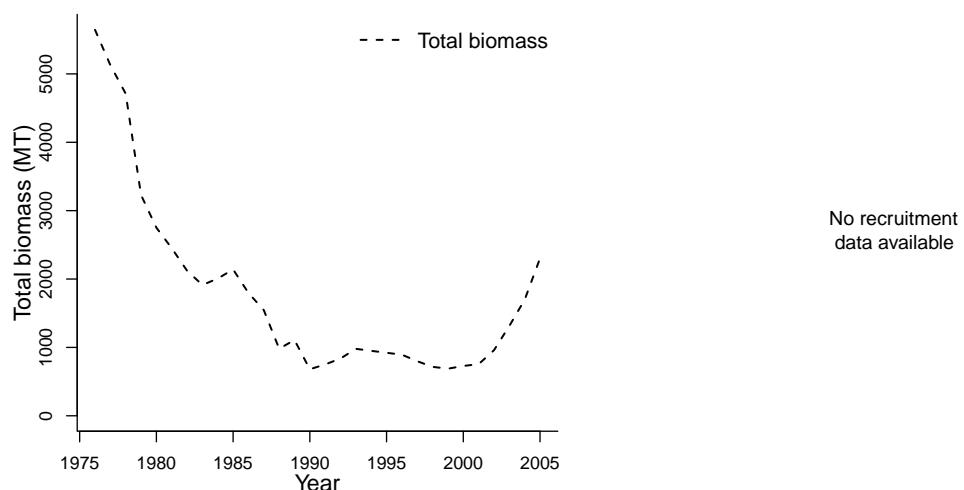
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year				1976
Maximum year				2005
Time series minimum				680.624
Time series maximum				5645
Units				MT



# Assessment of New Zealand common gemfish (*Rexea solandri*)

## Assessment

ID:NZMFishMIDDEPTHSWG-GEMFISHNZ-1952-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/182>

Area ID: New Zealand-MFish-NZ

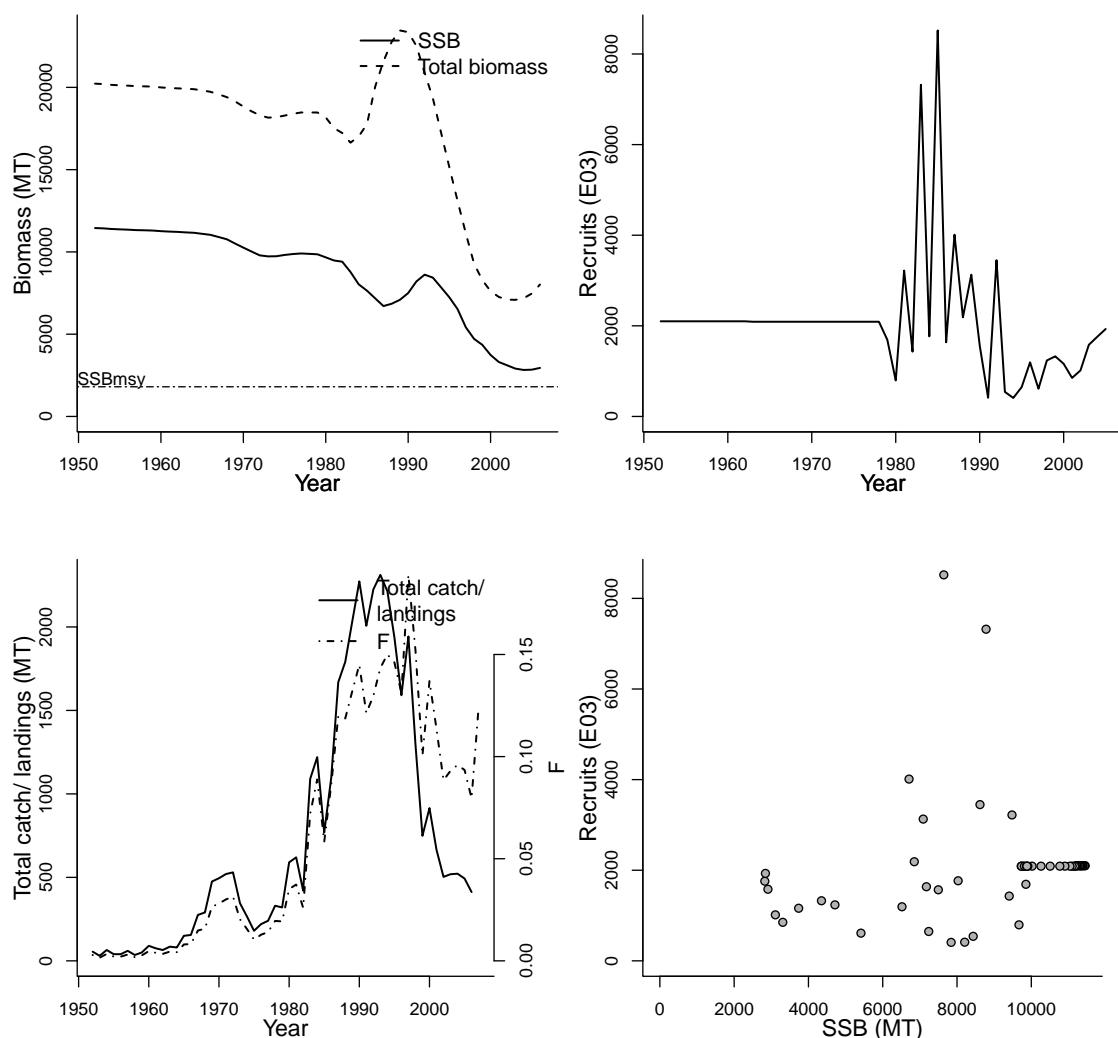
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1952-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-19
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
46 - New Zealand Shelf	na	na
<hr/>		
Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1	yr
A50-yr	8	yr
M-1/yr	0.24	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units
SSB0-MT (SSB)	11484.66666666667	MT
MSY-MT (TB)	1432.04273333333	MT
SSB <sub>msy</sub> -MT (SSB)	1803.02616666667	MT
F <sub>msy</sub> -1/yr (F)	0.289566666666667	1/yr
BH-h-dimless	0.9	dimless
$F_{2007}/F_{msy}$	0.429	
$SSB_{2006}/SSB_{msy}$	1.636	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1952	1952	1952	1952
Maximum year	2006	2005	2007	2006
Time series minimum	2825.23	408.241333333333	0.00153075366666667	7086.31
Time series maximum	11450.2	8519.18333333333	0.188977266666667	23459.06666666667
Units	MT	E03	1/yr	MT



# Assessment of New Zealand Areas LIN 3 and 4 ling (*Genypterus blacodes*)

## Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN3-4-1972-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/157>

Area ID: New Zealand-MFish-LIN3-4

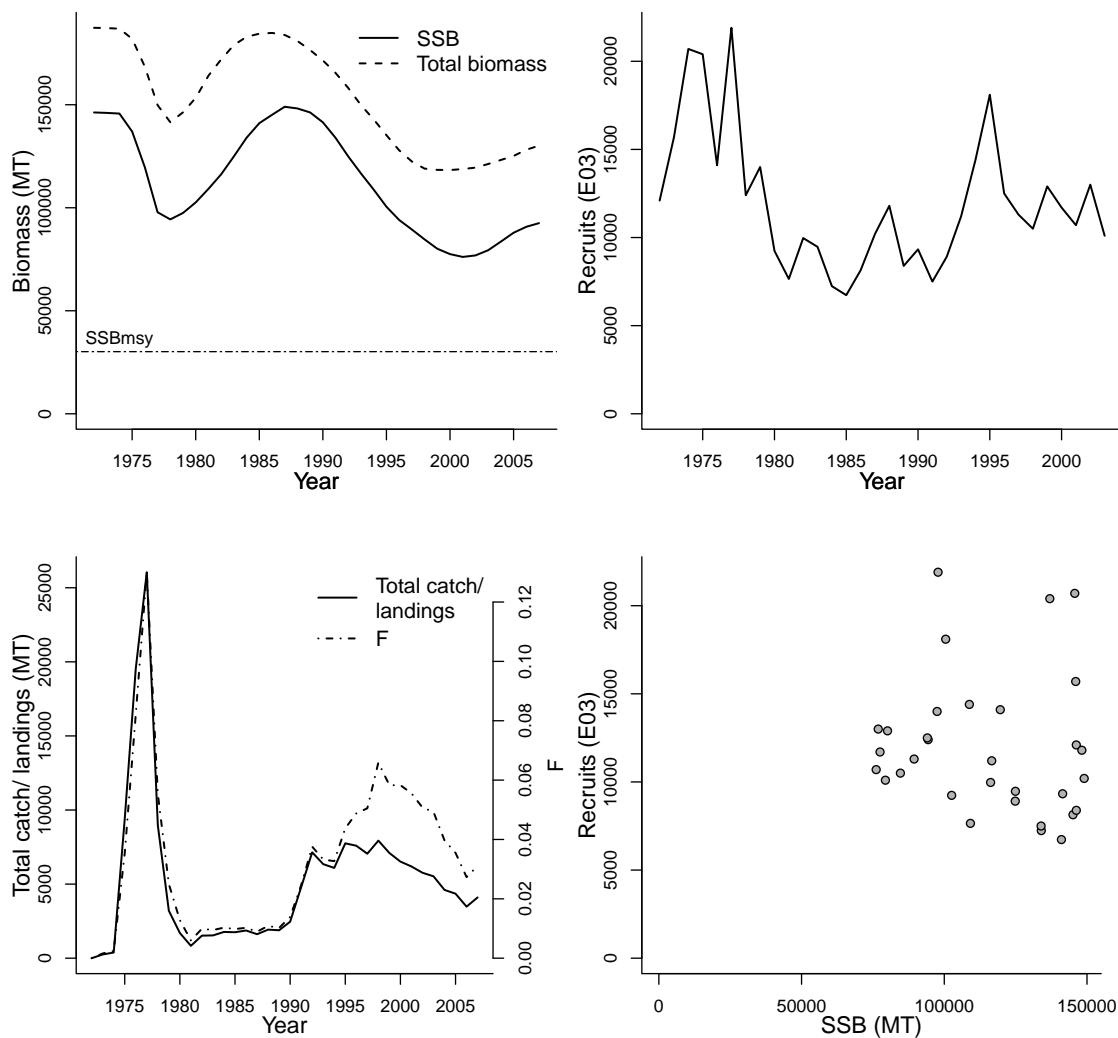
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr	3	yr	SSB0-MT (SSB)	146255	MT
A50-yr	9	yr	MSY-MT (TB)	9755.2085	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	30157.781	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.354	1/yr
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			$F_{2007}/F_{msy}$	0.088	
M			$SSB_{2007}/SSB_{msy}$	3.069	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1972	1972	1972	1972
Maximum year	2007	2003	2007	2007
Time series minimum	76136.8	6730	0	118300
Time series maximum	149018	21900	0.1300457	187345
Units	MT	E03	1/yr	MT



# Assessment of New Zealand Areas LIN 5 and 6 ling (*Genypterus blacodes*)

## Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN5-6-1972-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/159>

Area ID: New Zealand-MFish-LIN5-6

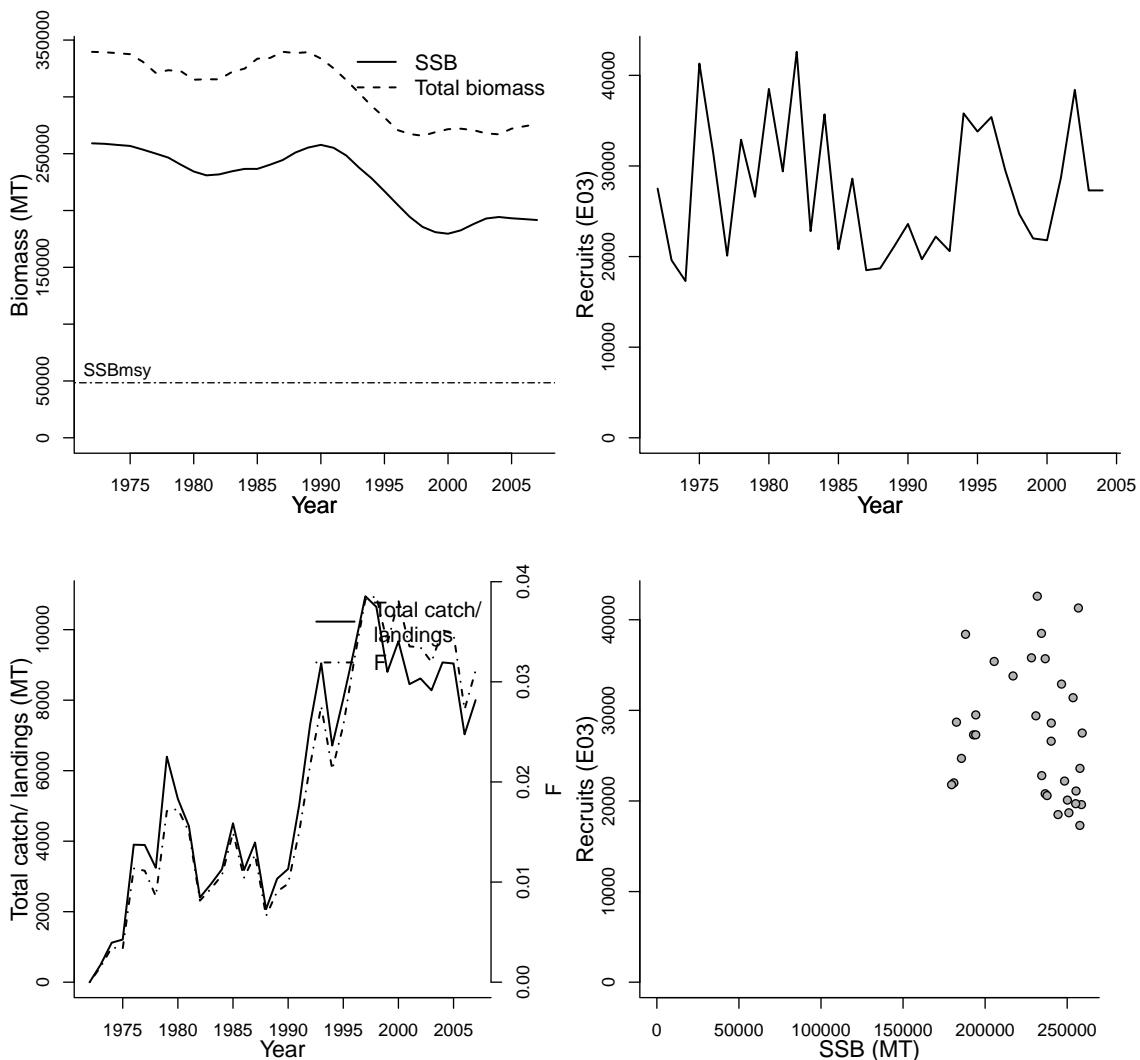
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr	3	yr	SSB0-MT (SSB)	259140	MT
A50-yr	8	yr	MSY-MT (TB)	20497.974	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	48407.352	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.314	1/yr
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			$F_{2007}/F_{msy}$	0.099	
M			$SSB_{2007}/SSB_{msy}$	3.959	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1972	1972	1972	1972
Maximum year	2007	2004	2007	2007
Time series minimum	179574	17300	0	265773
Time series maximum	259140	42600	0.0385508	339670
Units	MT	E03	1/yr	MT



# Assessment of New Zealand Areas LIN 6b ling (*Genypterus blacodes*)

## Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN6b-1980-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/158>

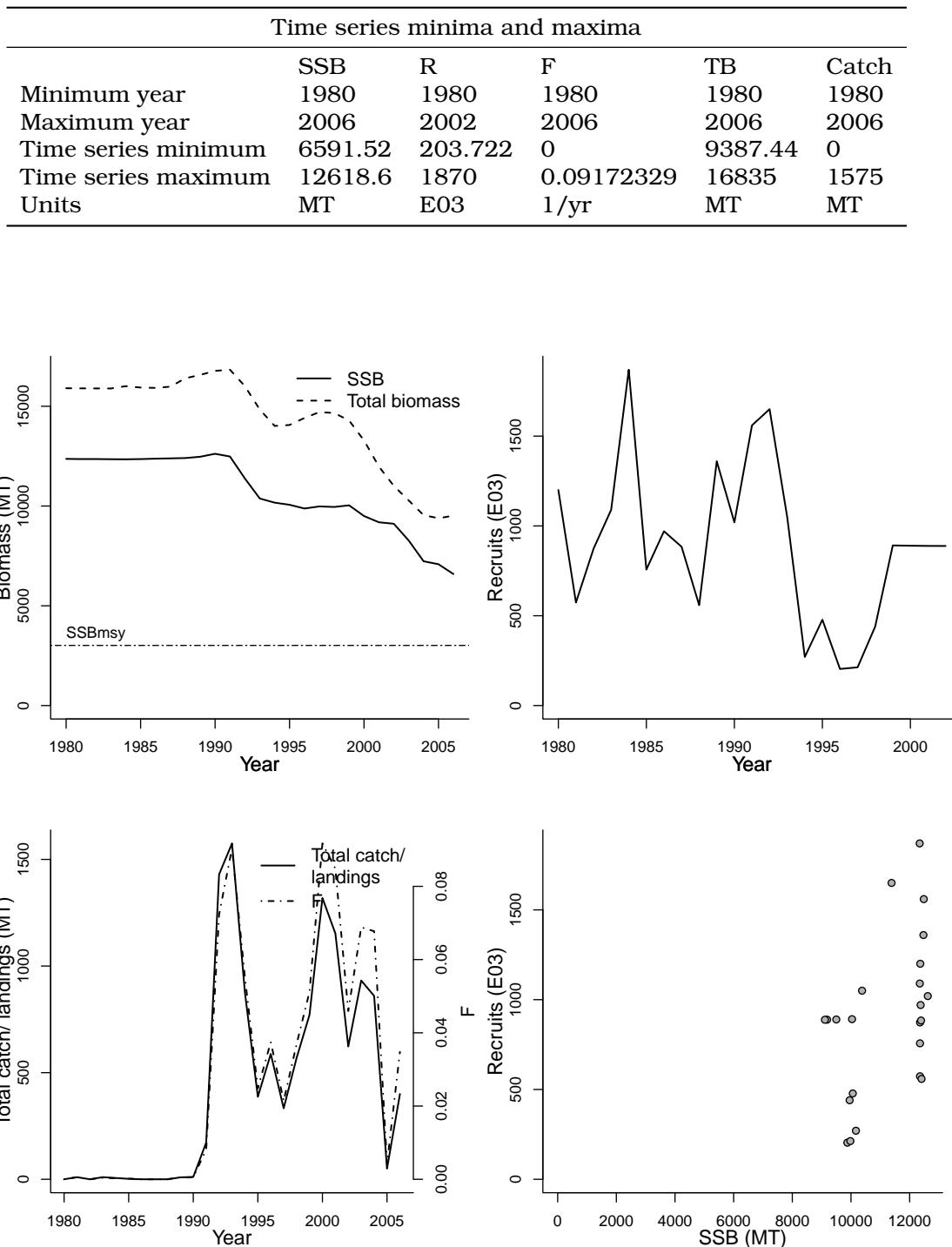
Area ID: New Zealand-MFish-LIN6b

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1980-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr	3	yr	SSB0-MT (SSB)	12363	MT
A50-yr	9	yr	MSY-MT (TB)	893.8449	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	3014.0994	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.308	1/yr
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			$F_{2006}/F_{msy}$	0.113	
M			$SSB_{2006}/SSB_{msy}$	2.187	
L50-cm					



# Assessment of New Zealand Areas LIN 72 ling (*Genypterus blacodes*)

## Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN72-1972-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/160>

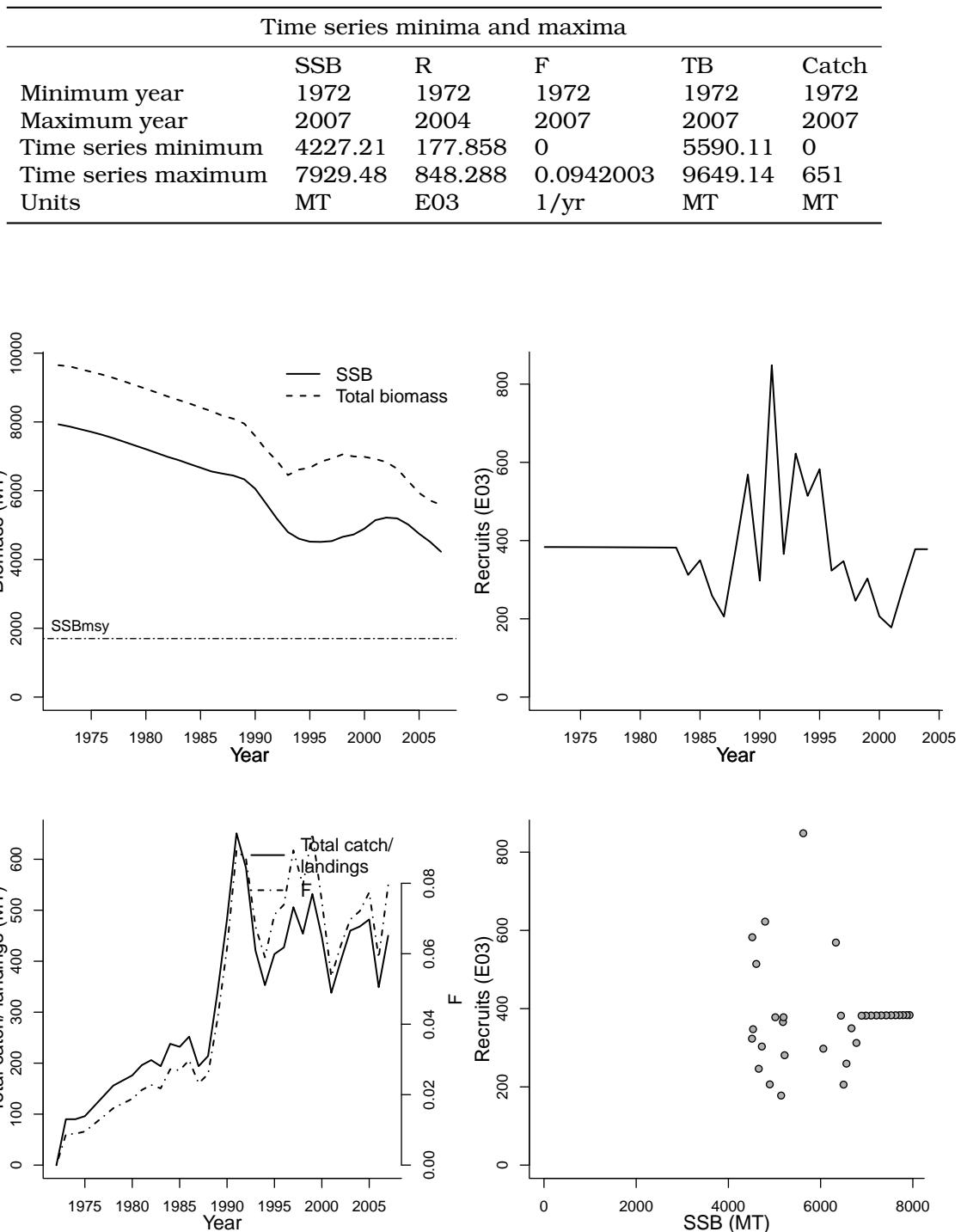
Area ID: New Zealand-MFish-LIN72

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr	3	yr	SSBO-MT (SSB)	7929.48	MT
A50-yr	8.75	yr	MSY-MT (TB)	515.8919688	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	1700.080512	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.246	1/yr
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			$F_{2007}/F_{msy}$	0.323	
M			$SSB_{2007}/SSB_{msy}$	2.486	
L50-cm					



# Assessment of New Zealand Areas LIN 7WC-WCSI ling (*Genypterus blacodes*)

## Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN7WC-1972-2008-JENSEN  
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/161>

Area ID: New Zealand-MFish-LIN7WC-WCSI

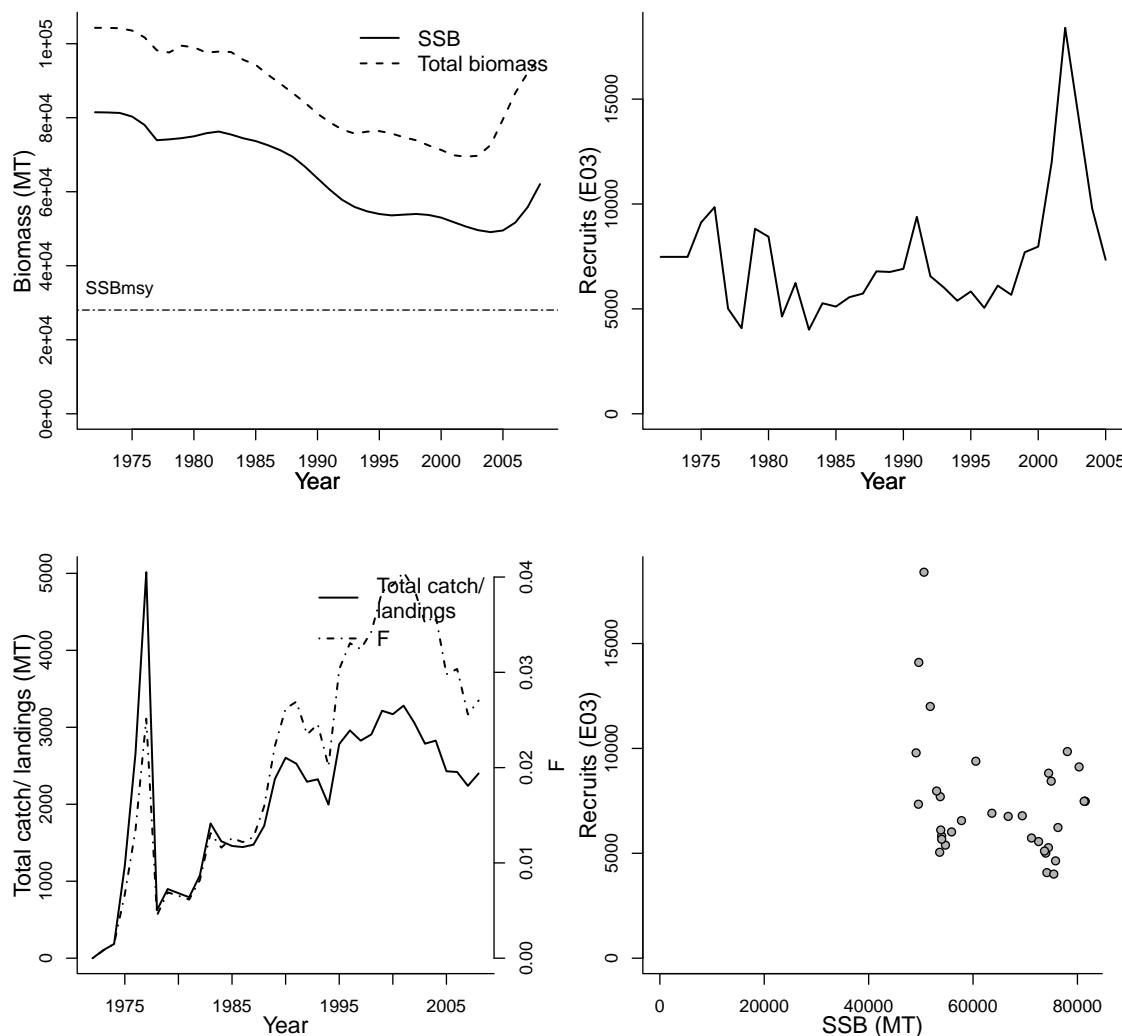
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1972-2008
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr	3	yr	SSB0-MT (SSB)	81482.4	MT
A50-yr	8.25	yr	MSY-MT (TB)	6062.29056	MT
M-1/yr	0.22	1/yr	SSB <sub>msy</sub> -MT (SSB)	28029.9456	MT
SSB-AGE-yr			F <sub>msy</sub> -1/yr (F)	0.202	1/yr
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			$F_{2008}/F_{msy}$	0.134	
M			$SSB_{2008}/SSB_{msy}$	2.214	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1972	1972	1972	1972
Maximum year	2008	2005	2008	2008
Time series minimum	49091.7	4010	0	69479.9
Time series maximum	81482.4	18400	0.04050748	104298
Units	MT	E03	1/yr	MT



# Assessment of New Zealand - Campbell Island Rise southern blue whiting (*Micromesistius australis*)

Assessment

ID:NZMFishMIDDEPTHSWG-SBWHITACIR-1979-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/190>

Area ID: New Zealand-MFish-CIR

General assessment details.

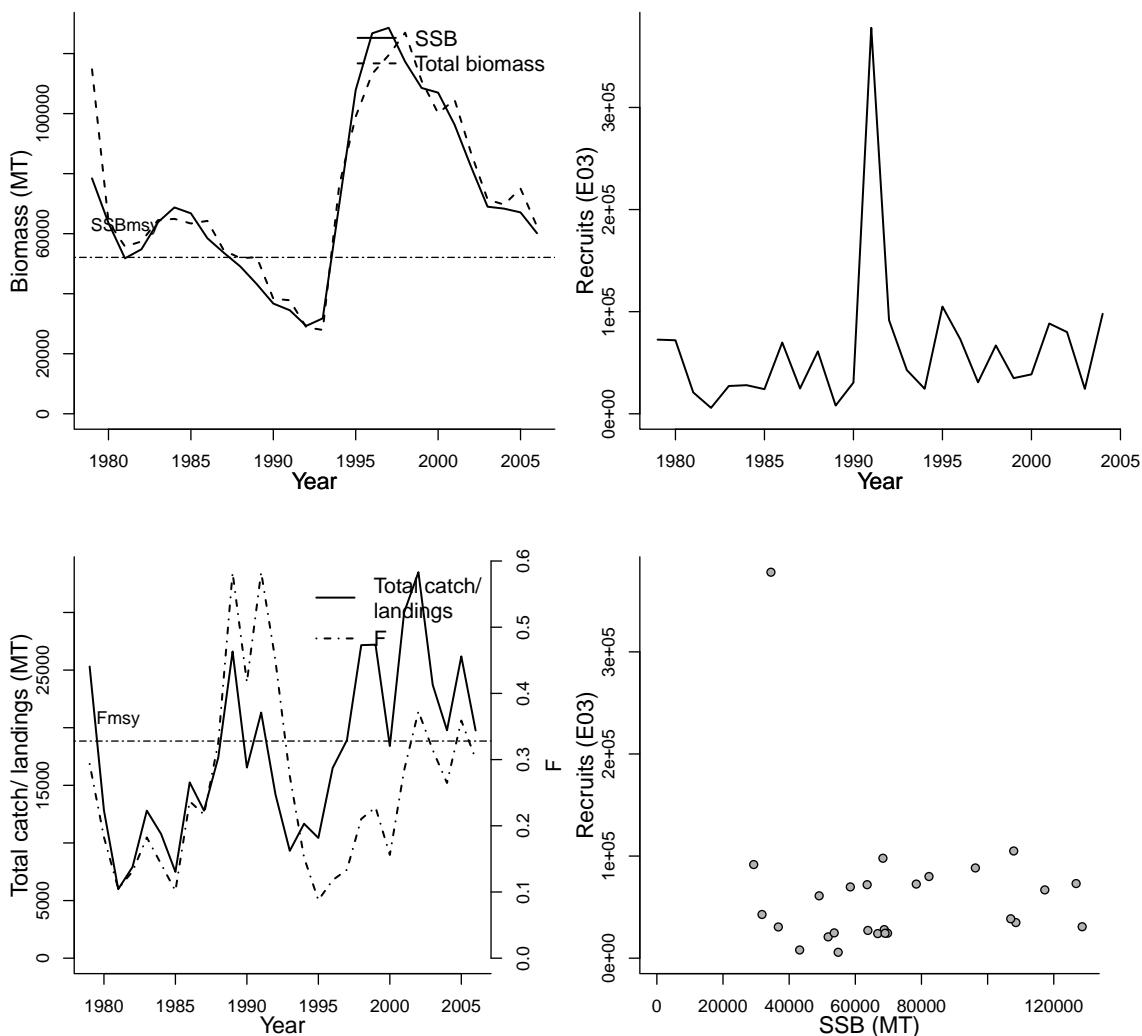
Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1979-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-20
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
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	2	yr	Parameter	Value	Units
TB-AGE-yr	2	yr	Fmsy-1/yr (F)	0.328	1/yr
A50-yr	3	yr	SSBmsy-MT (SSB)	52105.0464	MT
M-1/yr	0.114	1/yr	MSY-MT (TB)	19276.2356	MT
SSB-AGE-yr			SSB0-MT (SSB)	328946.0	MT
SSB-SEX-sex			RO-E00	5.84E+07	E00
F-AGE-yr			BH-h-dimless	1	dimless
M			$F_{2006}/F_{msy}$	0.918	
L50-cm			$SSB_{2006}/SSB_{msy}$	1.154	

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1979	1979	1979	1979	1979
Maximum year	2006	2004	2006	2006	2006
Time series minimum	29281	5790	0.08767466	27935.3	5989
Time series maximum	128587	378000	0.5830936	126956	33493
Units	MT	E03	1/yr	MT	MT



# Assessment of Chatham Rise southern hake (*Merluccius australis*)

## Assessment

ID:NZMFishMIDDEPTHSWG-SOUTHHAKECR-1975-2006-JENSEN  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/180>

Area ID: New Zealand-MFish-CR

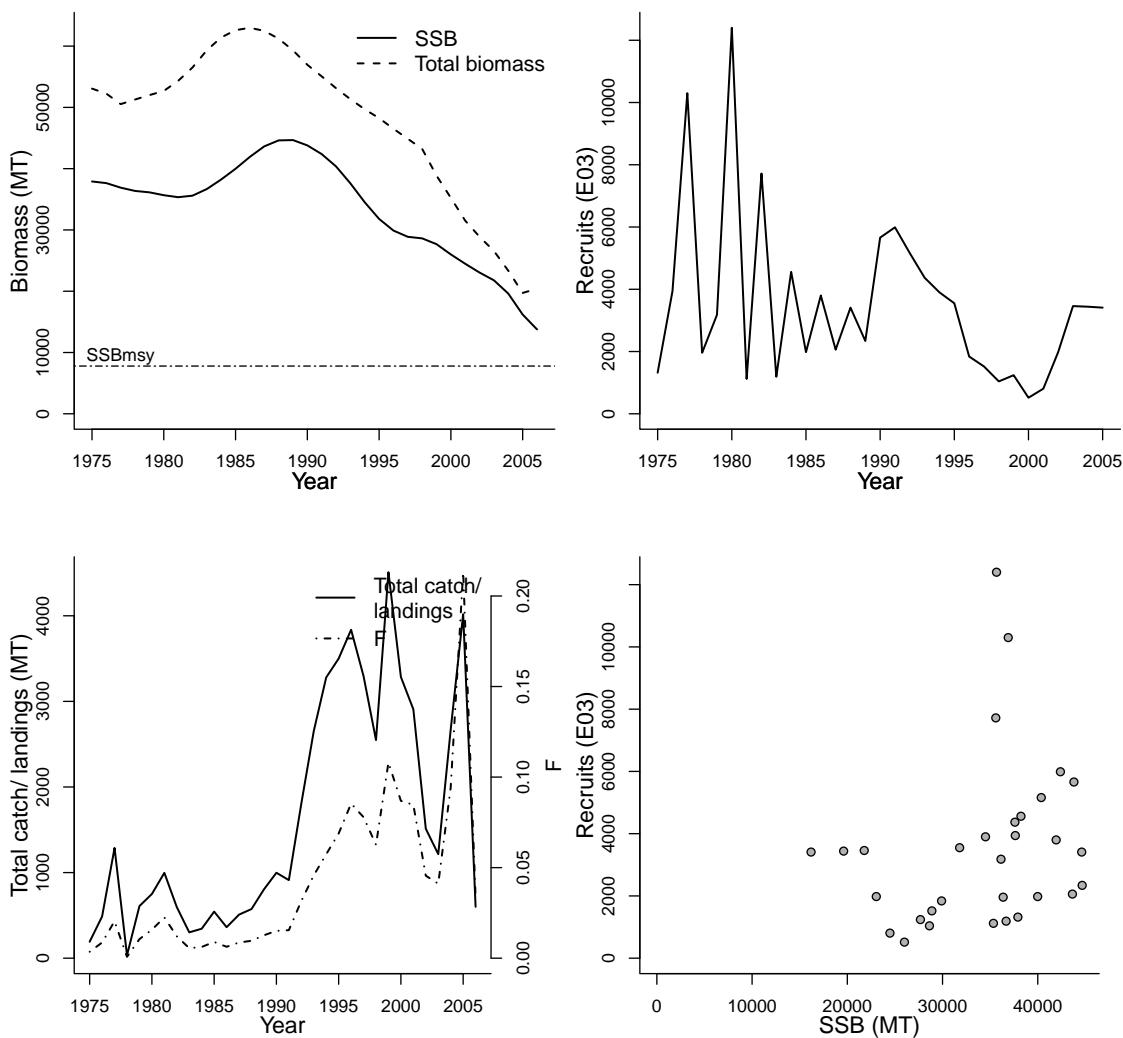
### General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1975-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-20
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	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
TB-AGE-yr	1	yr	Fmsy-1/yr (F)	2.90E-01	1/yr
A50-yr	7	yr	MSY-MT (TB)	3042.60651	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	7786.9455	MT
SSB-AGE-yr			SSB0-MT (SSB)	37985.1	MT
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			$F_{2006}/F_{m sy}$	0.116	
M			$SSB_{2006}/SSB_{m sy}$	1.768	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1975	1975	1975	1975
Maximum year	2006	2005	2006	2006
Time series minimum	13770.4	516	0.0007420451	19723.6
Time series maximum	44663.7	12400	0.2131267	62986.5
Units	MT	E03	1/yr	MT



# Assessment of Sub-Antarctic southern hake (*Merluccius australis*)

## Assessment

ID:NZMFishMIDDEPTHSWG-SOUTHHAKESA-1975-2007-JENSEN  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/181>

Area ID: New Zealand-MFish-SA

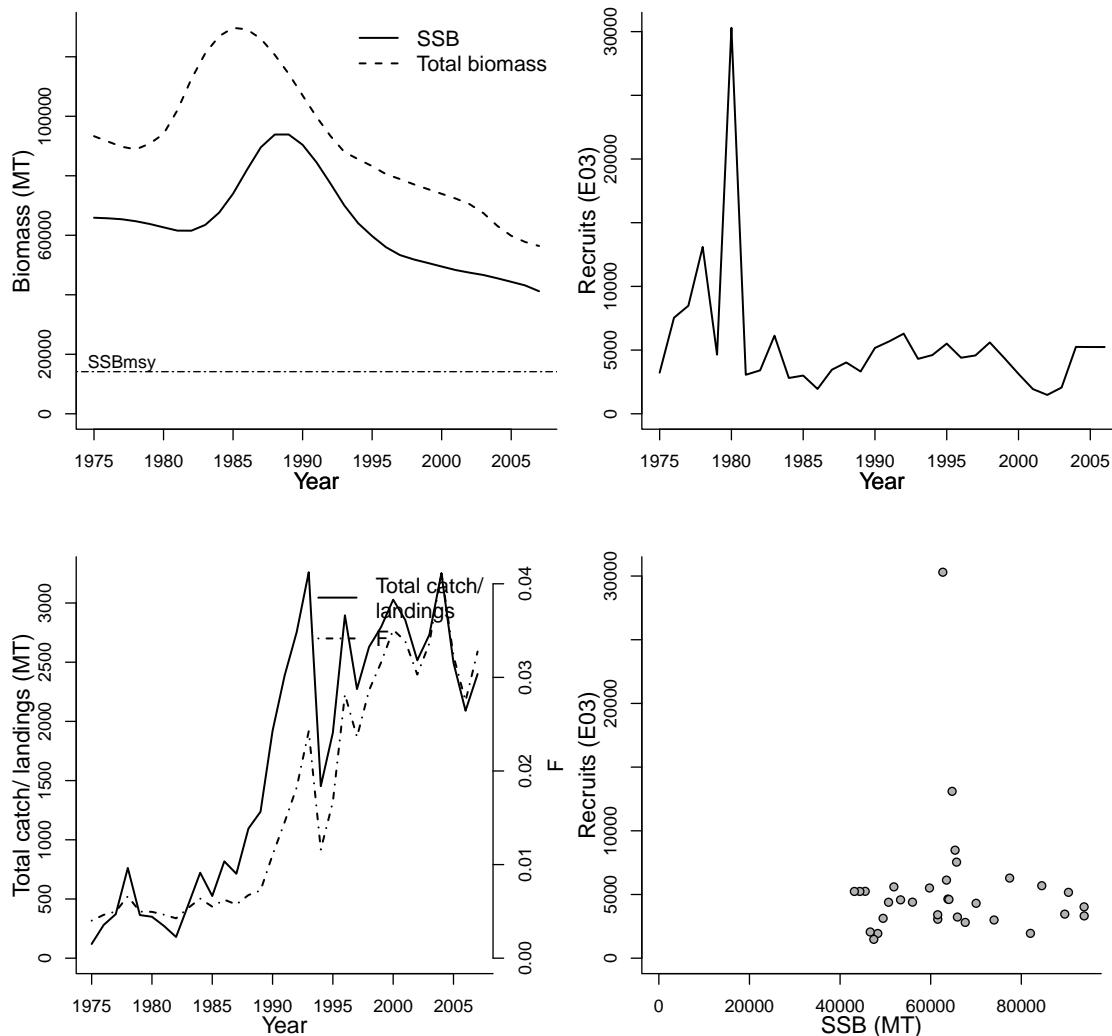
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1975-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-20
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
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
TB-AGE-yr	1	yr	Fmsy-1/yr (F)	0.307	1/yr
A50-yr	7.25	yr	MSY-MT (TB)	5810.2831	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	14153.0846	MT
SSB-AGE-yr			SSB0-MT (SSB)	65951	MT
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			$F_{2007}/F_{msy}$	0.107	
M			$SSB_{2007}/SSB_{msy}$	2.911	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1975	1975	1975	1975
Maximum year	2007	2006	2007	2007
Time series minimum	41198.1	1480	0.004012136	56399.5
Time series maximum	93878.8	30300	0.04123631	129739
Units	MT	E03	1/yr	MT



# Assessment of New Zealand Area PAU 5A new zealand abalone species (*Haliotis iris*)

## Assessment

ID:NZMFishSHELLFISHWG-PAUAPAU5A-1964-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/183>

Area ID: New Zealand-MFish-PAU5A

### General assessment details.

Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	Breen, Paul
Assessment method	Custom length-based Bayesian Model
Publication year	2007
Timeseries span	1964-2006
Document	ref07-09-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-21
QA/QC complete	YES
Date approved	2010-12-16

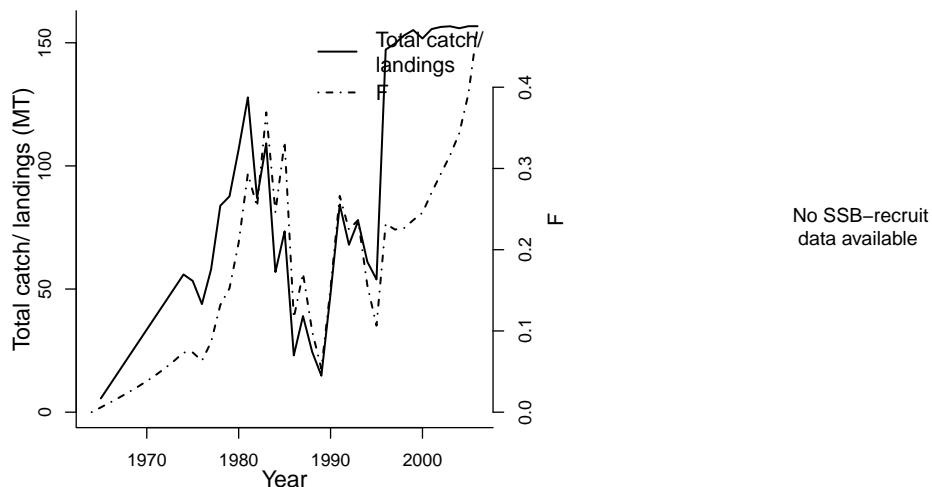
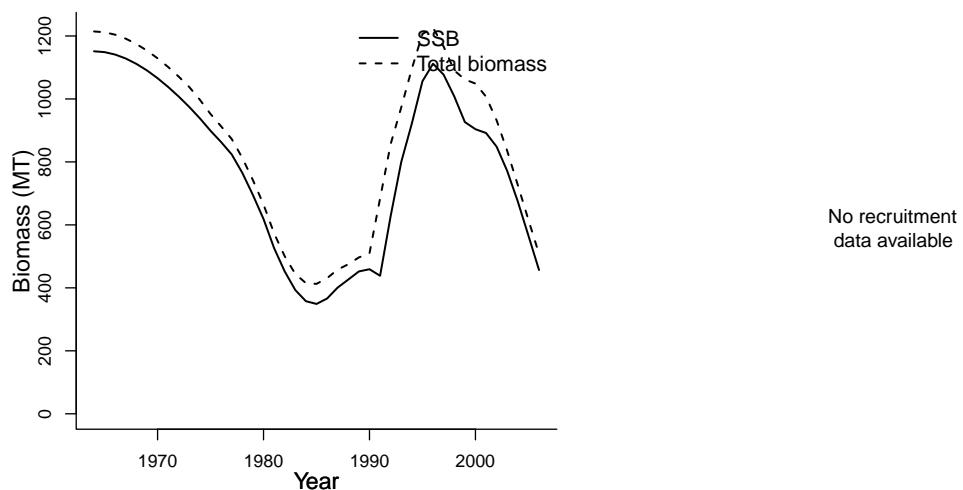
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year	1964		1964	1964
Maximum year	2006		2006	2006
Time series minimum	348.871		0	412.6615
Time series maximum	1151.38		0.475108	1225.96
Units	MT		ratio	MT
				MT



# Assessment of New Zealand Area PAU 5B (Stewart Island) new zealand abalone species (*Haliotis iris*)

## Assessment

ID:NZMFishSHELLFISHWG-PAUAPAU5B-1963-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/185>

Area ID: New Zealand-MFish-PAU5B

## General assessment details.

Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	Breen, Paul A.
Assessment method	Custom length-based Bayesian Model
Publication year	1963-2007
Timeseries span	ref08-05-FAR.pdf (pdf in database)
Document	JENSEN
Recorder	
Date entered	2009-03-11
Date last loaded	2010-07-21
QA/QC complete	NO
Date approved	

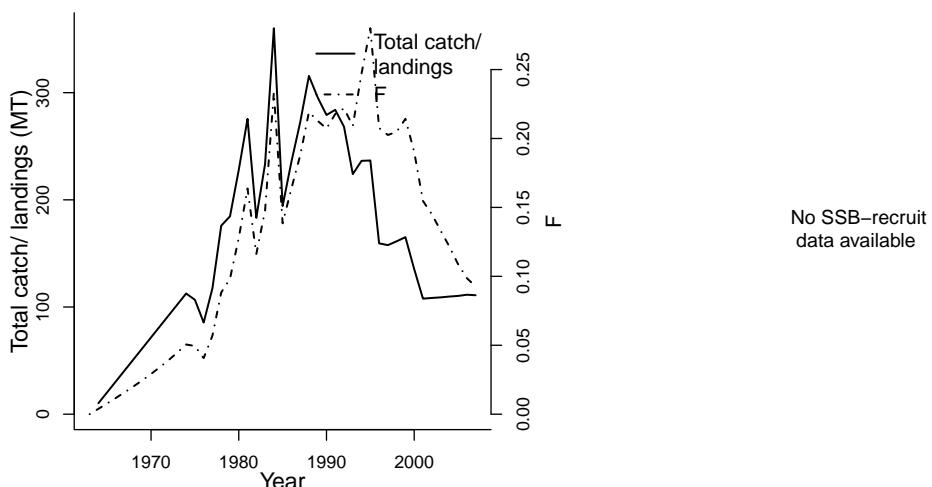
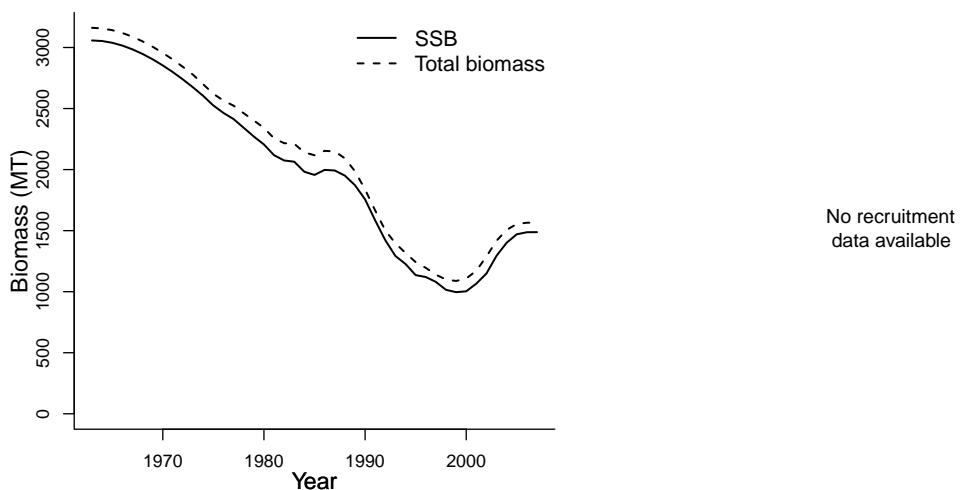
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year	1963		1963	1963
Maximum year	2007		2007	2007
Time series minimum	995.966		0	1087.835
Time series maximum	3057.775		0.2800015	3161.35
Units	MT		ratio	MT



# Assessment of New Zealand Area PAU 5D (Otago) new zealand abalone species (*Haliotis iris*)

## Assessment

ID:NZMFishSHELLFISHWG-PAUAPAU5D-1964-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/184>

Area ID: New Zealand-MFish-PAU5D

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	Breen, Paul
Assessment method	Custom length-based Bayesian Model
Publication year	2007
Timeseries span	1964-2006
Document	ref07-09-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-21
QA/QC complete	NO
Date approved	

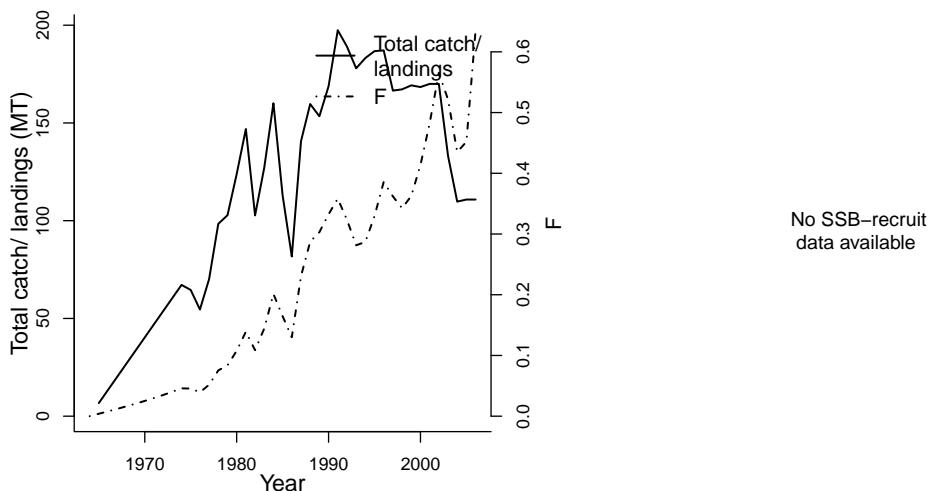
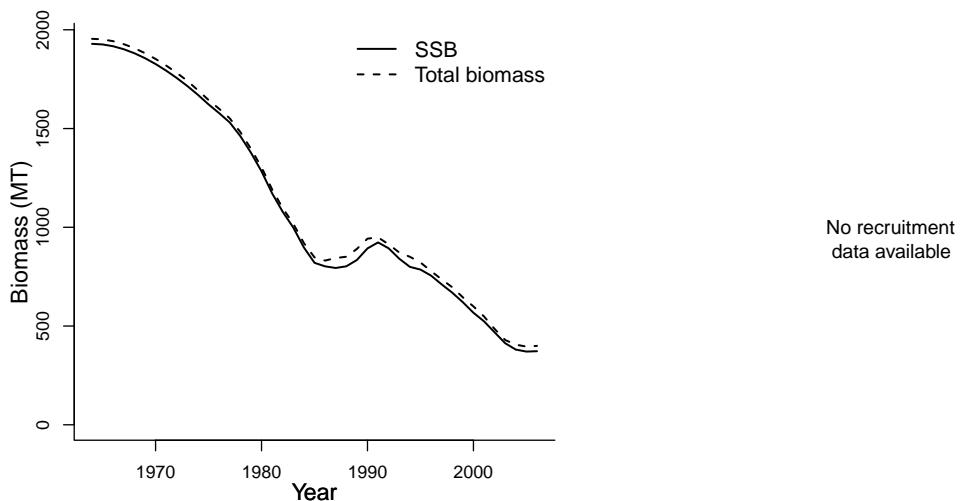
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year	1964		1964	1964
Maximum year	2006		2006	2006
Time series minimum	370.6535		0	395.837
Time series maximum	1928.83		0.6356325	1954.34
Units	MT		ratio	MT



# Assessment of New Zealand Area PAU 7 (Marlborough) new zealand abalone species (*Haliotis iris*)

## Assessment

ID:NZMFishSHELLFISHWG-PAUAPAU7-1964-2008-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/186>

Area ID: New Zealand-MFish-PAU7

### General assessment details.

Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	McKenzie, Andy
Assessment method	Custom length-based Bayesian Model
Publication year	1964-2008
Timeseries span	ref09-34-FAR.pdf (pdf in database)
Document	JENSEN
Recorder	
Date entered	2009-03-11
Date last loaded	2010-07-21
QA/QC complete	NO
Date approved	

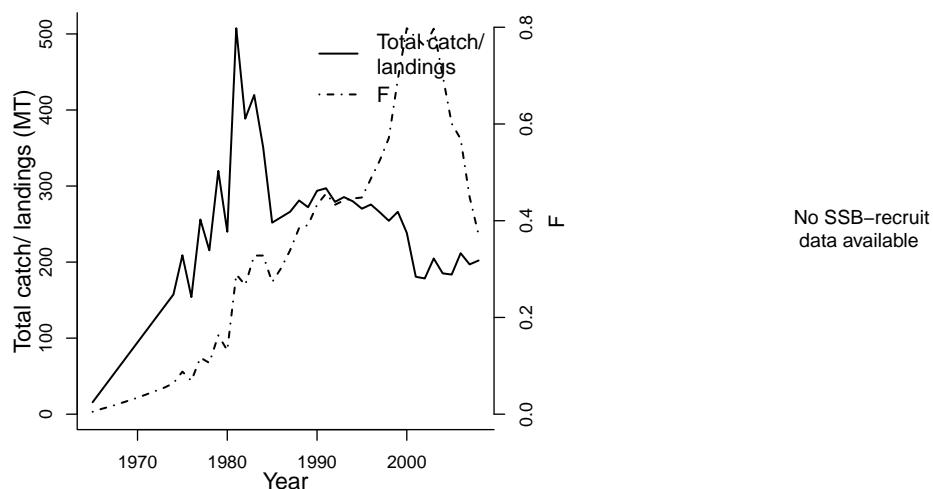
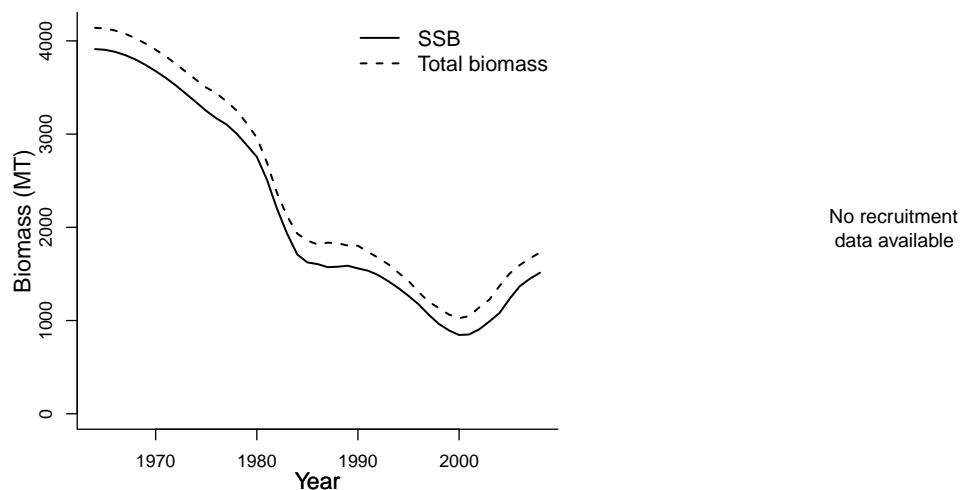
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na
Parameter	Value	Units
REC-AGE		
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
Minimum year	1964		1965	1964
Maximum year	2008		2008	2008
Time series minimum	845.1		0.005	1025.2
Time series maximum	3911.64		0.798	4140.13
Units	MT		ratio	MT



# Assessment of Northern Pacific Coast lingcod

## (*Ophiodon elongatus*)

Assessment ID:PFMC-LINGCODNPCOAST-1956-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/345>

Area ID: USA-NMFS-NPCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Pacific Fishery Management Council
Assessment authors	Jagiolo, Thomas
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1956-2005
Document	2005-SAFE-WClingscod.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-20
Date last loaded	2009-11-09
QA/QC complete	NO
Date approved	

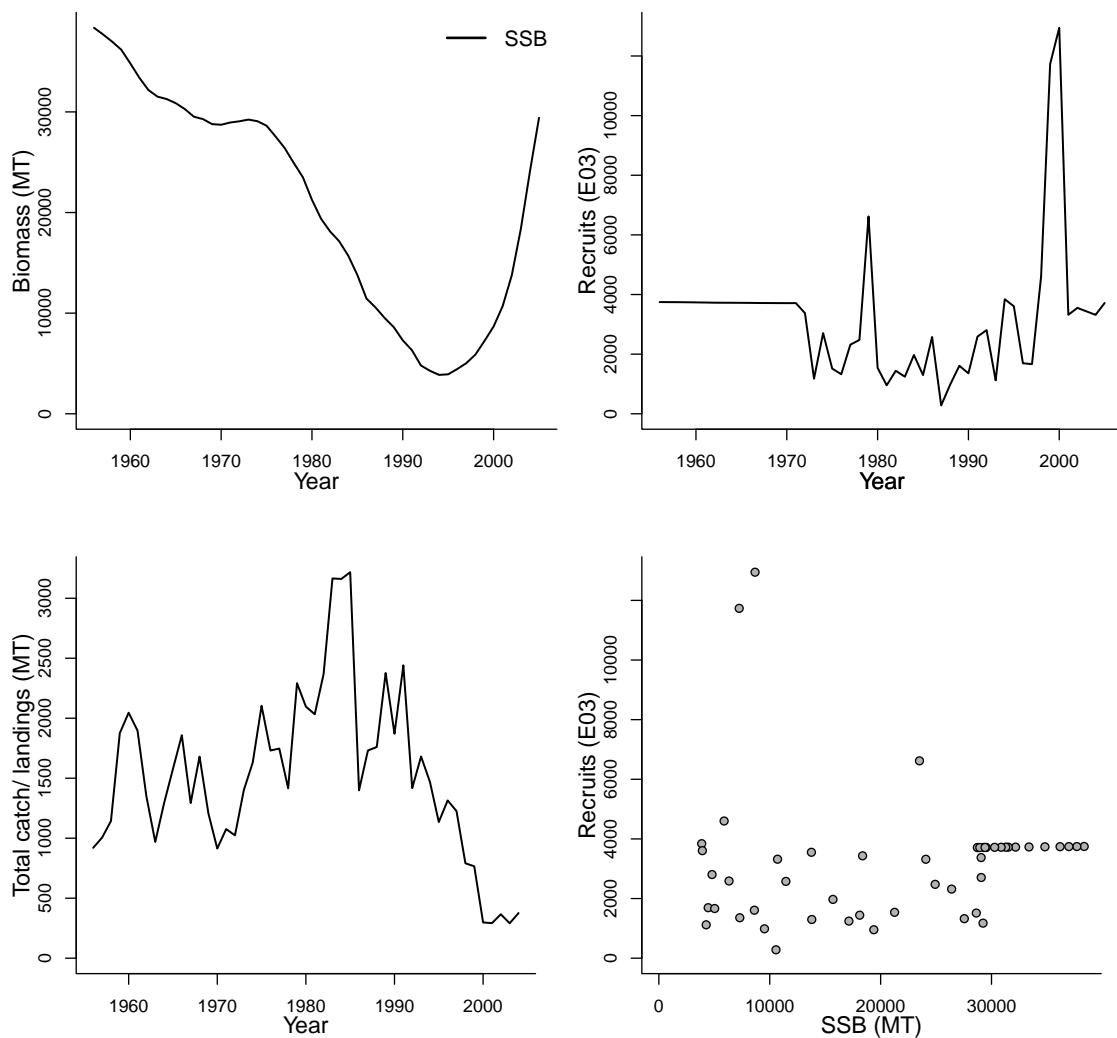
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME		secondary LME	tertiary LME
3 - California Current		na	na
Parameter	Value	Units	
SSB-SEX-sex	1	sex	
REC-AGE-yr	0	yr	
M-1/yr	0.18	1/yr	Reference points
NATMORT-1/yr	0.18	1/yr	Parameter
SSB-AGE-yr			Value
TB-AGE-yr			Units
F-AGE-yr			
M			
A50-yr			
L50-cm			

Parameter	Value	Units
NATMORT-1/yr (M)	0.18	1/yr
SSB0-MT (SSB)	52850	MT

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1956	1956		1956
Maximum year	2005	2005		2004
Time series minimum	3864	282		291
Time series maximum	38357	12945		3217
Units	MT	E03		MT



# Assessment of Southern Pacific Coast lingcod

## (*Ophiodon elongatus*)

Assessment ID:PFMC-LINGCODSPCOAST-1956-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/346>

Area ID: USA-NMFS-SPCOAST

General assessment details.

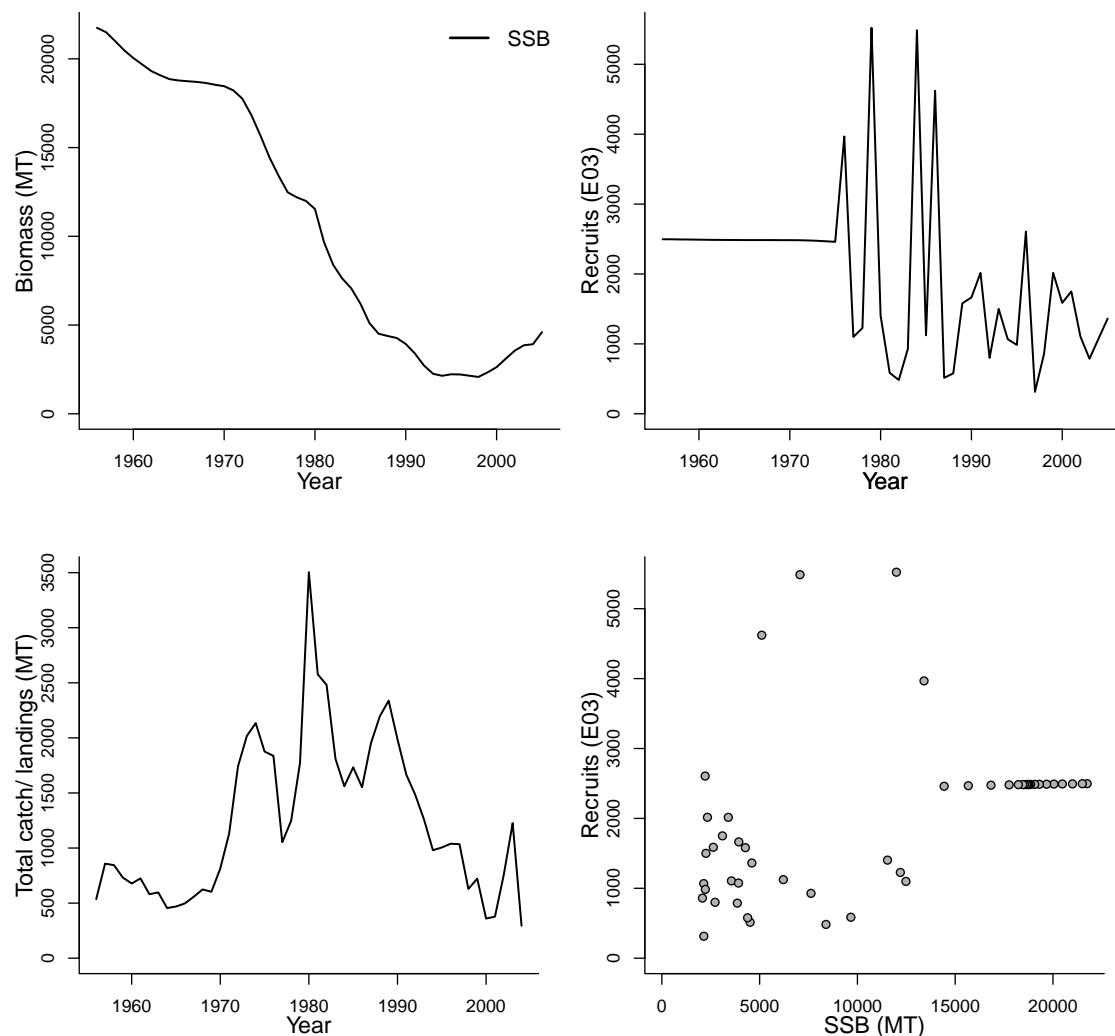
Detail	Value
Management body	NMFS
Assessment group	Pacific Fishery Management Council
Assessment authors	Jagiolo, Thomas
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1956-2005
Document	2005_SAFE_Wcliningcod.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-20
Date last loaded	2009-11-09
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
3 - California Current		na	na
Parameter	Value	Units	
SSB-SEX-sex	1	sex	
REC-AGE-yr	0	yr	
M-1/yr	0.18	1/yr	Reference points
NATMORT-1/yr	0.18	1/yr	Parameter
SSB-AGE-yr			Value
TB-AGE-yr			Units
F-AGE-yr			
M			
A50-yr			
L50-cm			

	Parameter	Value	Units
	NATMORT-1/yr (M)	0.18	1/yr
	SSB0-MT (SSB)	52850	MT

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1956	1956		1956
Maximum year	2005	2005		2004
Time series minimum	2075	314		295
Time series maximum	21749	5522		3504
Units	MT	E03		MT



# Assessment of Rhode Island american lobster (*Homarus americanus*)

Assessment ID: RIDEM-LOBSTERRI-1959-2007-COLLIE

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/312>

Area ID: USA-US State-RI

## General assessment details.

Detail	Value
Management body	US State
Assessment group	Rhode Island Department of Environmental Management
Assessment authors	Gibson, Mark
Assessment method	Age-aggregated surplus production model
Publication year	2008
Timeseries span	1959-2007
Document	NULL (pdf not in database)
Recorder	COLLIE
Date entered	2008-04-12
Date last loaded	2009-05-13
QA/QC complete	YES
Date approved	2009-05-13

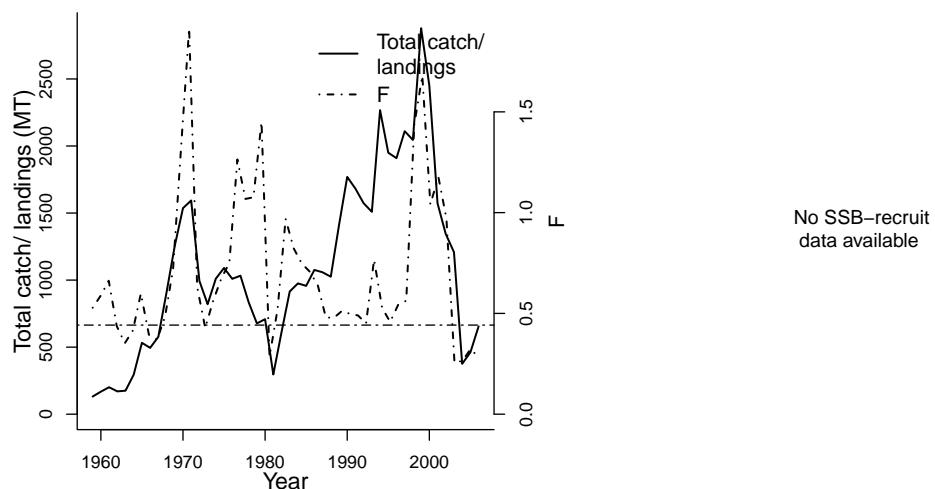
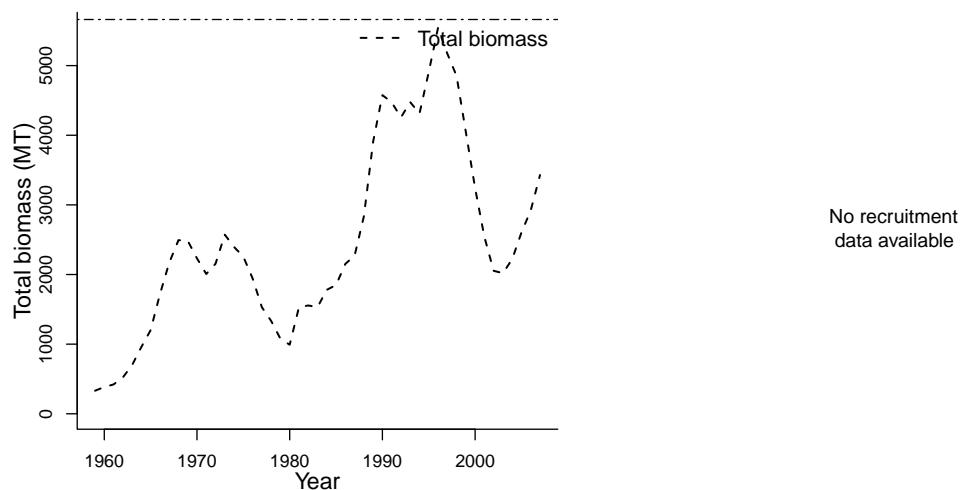
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Parameter	Value	Units	Reference points
Bmsy-MT (TB)	5662	MT	Parameter
Fmsy-1/yr (F)	0.442	1/yr	Value
Fext-1/yr (F)	0.884	1/yr	Units
$TB_{2007}/B_{msy}$	0.606		
$F_{2007}/F_{msy}$	0.640		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1959	1959
Maximum year			2007	2007
Time series minimum	0.255		330.892	131.581
Time series maximum	1.915		5542.814	2878.455
Units	1/T		MT	MT



# Assessment of Rhode Island tautog (*Tautoga onitis*)

Assessment ID: RIDEM-TAUTOGRI-1959-2007-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/313>

Area ID: USA-US State-RI

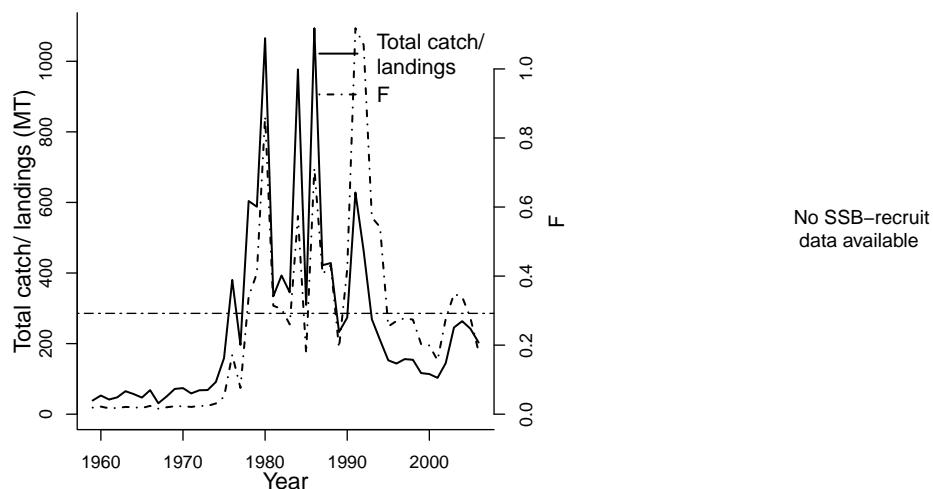
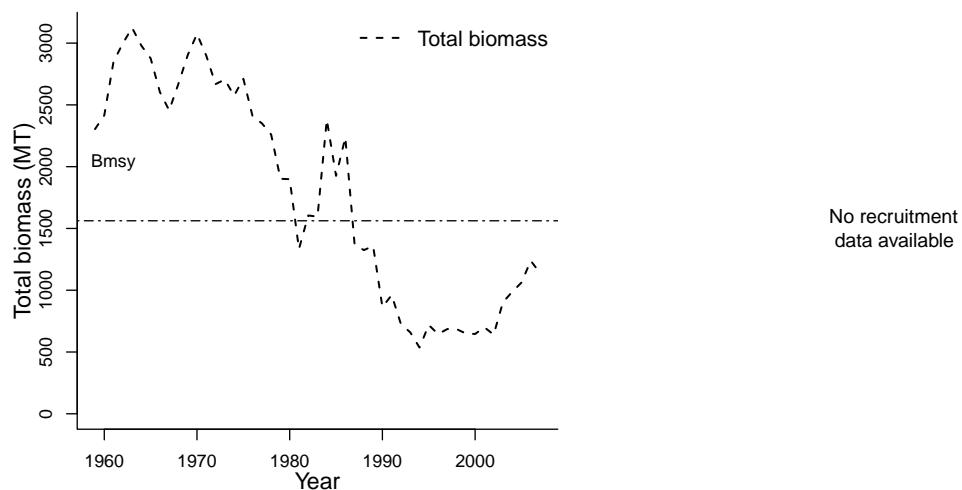
## General assessment details.

Detail	Value
Management body	US State
Assessment group	Rhode Island Department of Environmental Management
Assessment authors	Gibson, Mark
Assessment method	Age-aggregated surplus production model
Publication year	2008
Timeseries span	1959-2007
Document	NULL (pdf not in database)
Recorder	COLLIE
Date entered	2008-04-12
Date last loaded	2009-05-14
QA/QC complete	YES
Date approved	2009-05-14

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

primary LME			secondary LME		tertiary LME
7 - Northeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			MSY-MT (TB)	369.56	MT
SSB-SEX-sex			Fmsy-1/yr (F)	0.292	1/yr
TB-AGE-yr			Fext-1/yr (F)	0.584	1/yr
F-AGE-yr			Bmsy-MT (TB)	1562	MT
M			$TB_{2007}/B_{msy}$	0.729	
A50-yr			$F_{2006}/F_{msy}$	0.620	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year			1959	1959	1959
Maximum year			2006	2007	2006
Time series minimum	0.016		536.293	30.997	
Time series maximum	1.118		3123.86	1093.669	
Units	1/T		MT	MT	



# Assessment of Rhode Island winter flounder (*Pseudopleuronectes americanus*)

Assessment ID: RIDEM-WINFLOUNDRI-1959-2007-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/314>

Area ID: USA-US State-RI

## General assessment details.

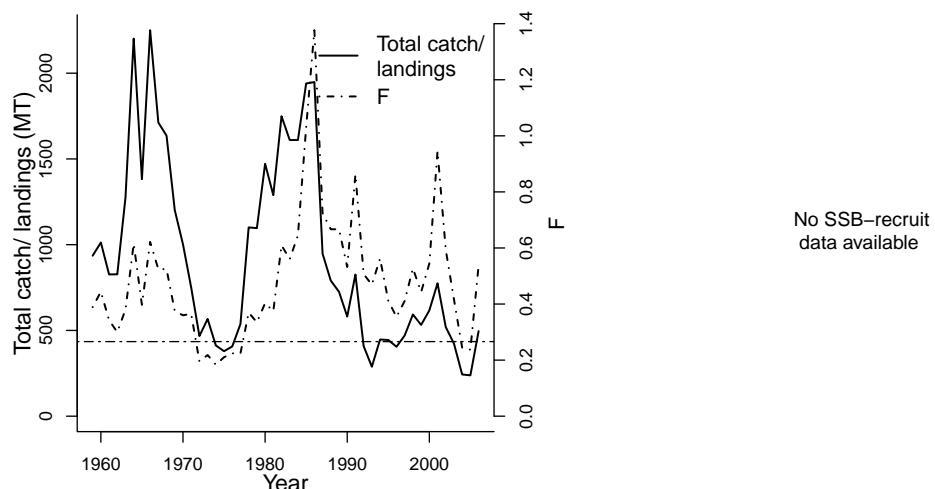
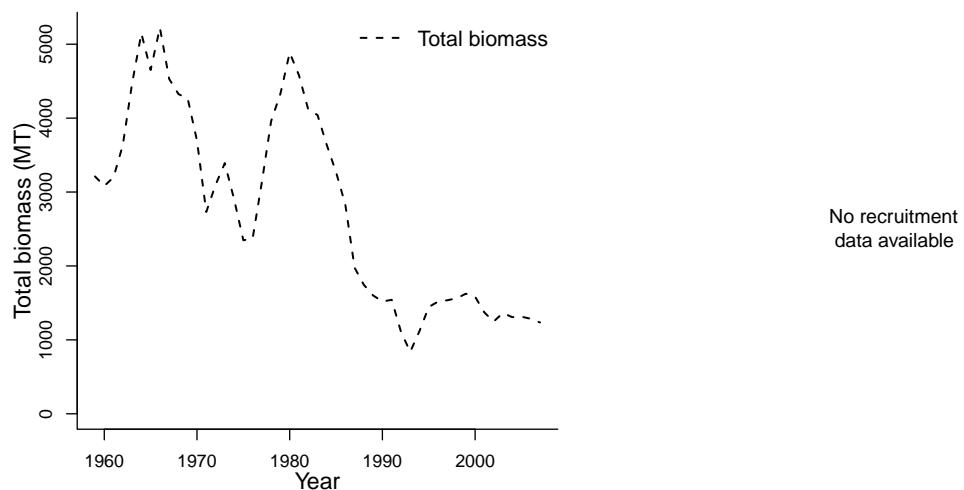
Detail	Value
Management body	US State
Assessment group	Rhode Island Department of Environmental Management
Assessment authors	Gibson, Mark, Rhode Island Department of Environmental Management, <a href="mailto:jmark.gibson@dem.ri.gov">jmark.gibson@dem.ri.gov</a>
Assessment method	Age-aggregated surplus production model
Publication year	2008
Timeseries span	1959-2007
Document	NULL (pdf not in database)
Recorder	COLLIE
Date entered	2008-04-12
Date last loaded	2009-05-14
QA/QC complete	YES
Date approved	2009-05-14

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	Parameter	Value	Units
M-1/T	0.2	1/T	Bmsy-MT (TB)	5478	MT
REC-AGE			Fmsy-1/yr (F)	0.266	1/yr
SSB-AGE-yr			Fext-1/yr (F)	0.532	1/yr
SSB-SEX-sex			$TB_{2007}/B_{msy}$	0.225	
TB-AGE-yr			$F_{2006}/F_{msy}$	2.022	
F-AGE-yr					
M					
A50-yr					
L50-cm					

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year			1959	1959	1959
Maximum year			2006	2007	2006
Time series minimum			0.1836	837.8442	238.1142
Time series maximum			1.3767	5222.0217	2250.6061
Units			1/yr	MT	MT



# Assessment of Atlantic bonnethead shark (*Sphyrna tiburo*)

Assessment ID:SEFSC-BHEADSHARATL-1950-2005-FAUCONNET  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/326>

Area ID: USA-NMFS-ATL

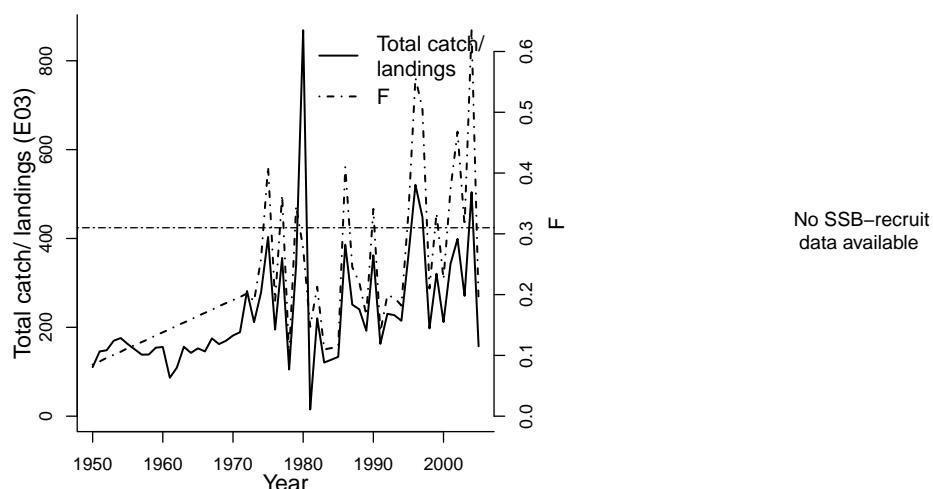
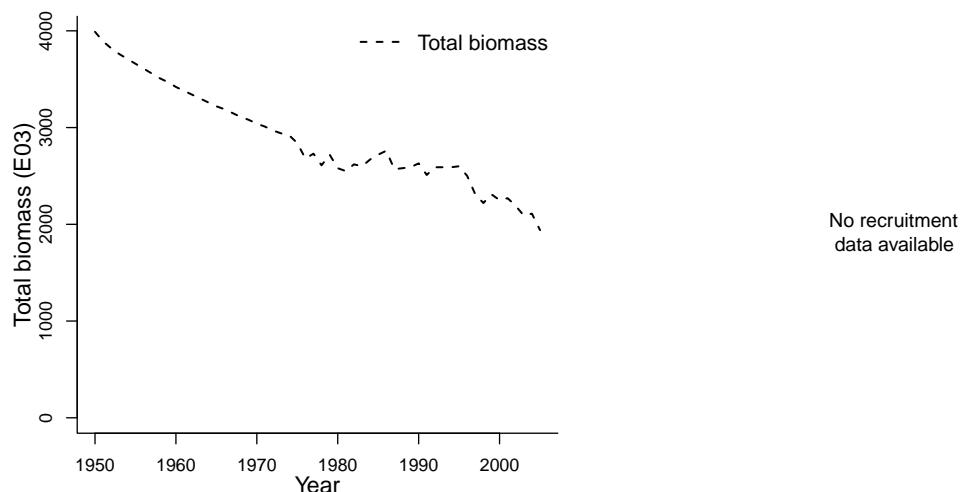
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Brooks, Liz
Assessment method	Age-structured surplus production model
Publication year	2007
Timeseries span	1950-2005
Document	SmallcoastalAtl2007-SEFSC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-05-08
Date last loaded	2010-02-25
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		
6 - Southeast U.S. Continental Shelf			7 - Northeast U.S. Continental Shelf			na		
Parameter	Value	Units	Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	3.5	yr	Fmsy-1/yr (F)	0.31	1/yr			
SSB-SEX-sex	1	sex	Fcurrent-1/T (F)	0.19	1/T			
REC-AGE-yr	age 1?	yr	MSY-MT (TB)	568871	MT			
TB-AGE-yr			SPRmsy-E00	0.42	E00			
F-AGE-yr			SSFmsy-E00	1.99E+06	E00			
M			Nmsy-E00	1.92E+06	E00			
A50-yr			BH-h-dimless	0.44	dimless			
L50-cm			$F_{2005}/F_{msy}$	0.606				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1950	1950
Maximum year				2005	2005
Time series minimum			0.085	1940	15.111
Time series maximum			0.635	3990	868.767
Units			1/yr	E03	E03



# Assessment of Atlantic blacknose shark (*Carcharhinus acronotus*)

Assessment ID:SEFSC-BNOSESHARATL-1950-2005-FAUCONNET  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/324>

Area ID: USA-NMFS-ATL

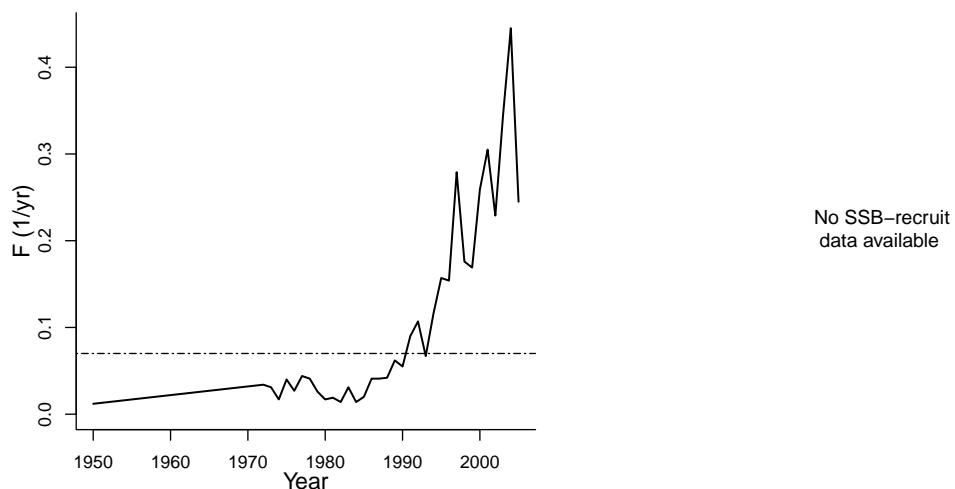
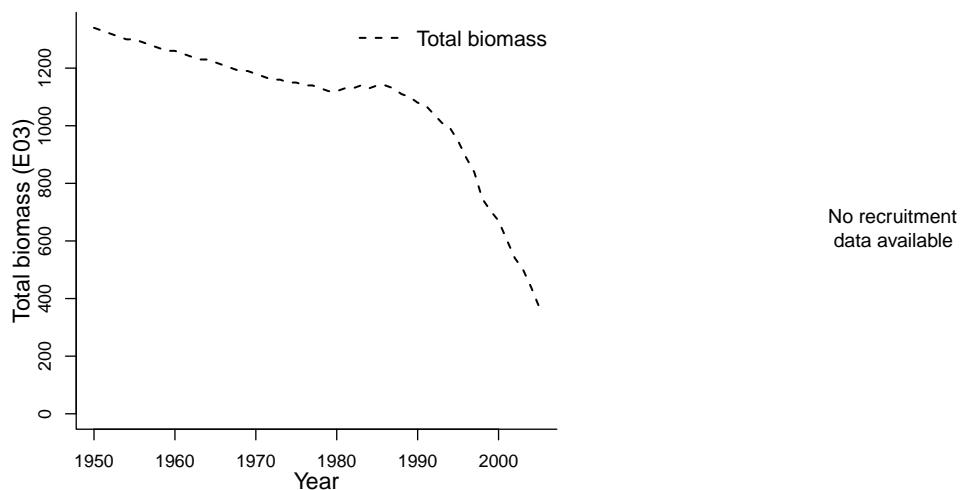
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Brooks, Liz
Assessment method	Age-structured surplus production model
Publication year	2007
Timeseries span	1950-2005
Document	SmallcoastalAtl2007-SEFSC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-05-06
Date last loaded	2010-07-21
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		
6 - Southeast U.S. Continental Shelf			7 - Northeast U.S. Continental Shelf			na		
Parameter	Value	Units	Reference points			Parameter	Value	Units
SSB-AGE-yr	4.5	yr	Fmsy-1/yr (F)	0.07	1/yr			
SSB-SEX-sex	1	sex	Fcurrent-1/T (F)	0.24	1/T			
REC-AGE			MSY-MT (TB)	89.415	MT			
TB-AGE-yr			SPRmsy-E00	0.71	E00			
F-AGE-yr			SSFmsy-E00	349060	E00			
M			Nmsy-E00	570753	E00			
A50-yr			BH-h-dimless	0.24	dimless			
L50-cm			$F_{2005}/F_{msy}$	3.500				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1950	1950
Maximum year				2005	2005
Time series minimum			0.012	372	
Time series maximum			0.445	1340	
Units			1/yr	E03	



# Assessment of Atlantic blacktip shark (*Carcharhinus limbatus*)

Assessment ID:SEFSC-BTIPSHARATL-1981-2004-FAUCONNET

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/321>

Area ID: USA-NMFS-ATL

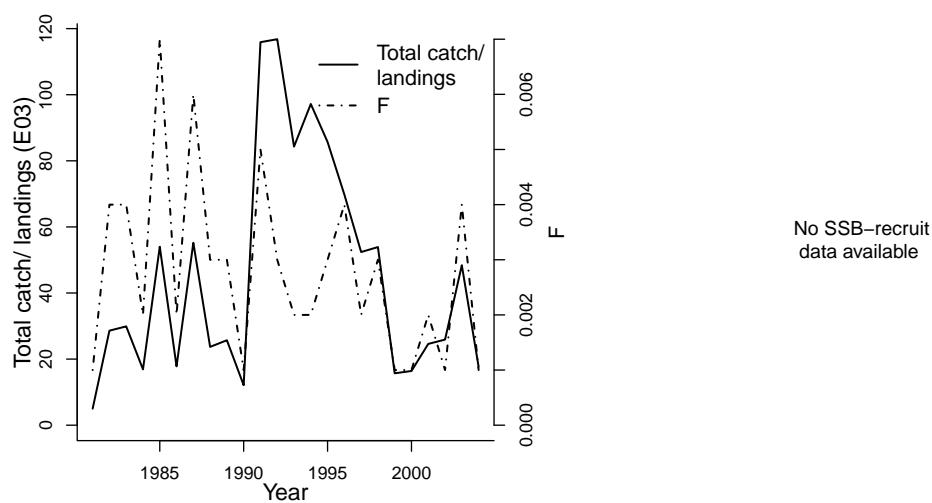
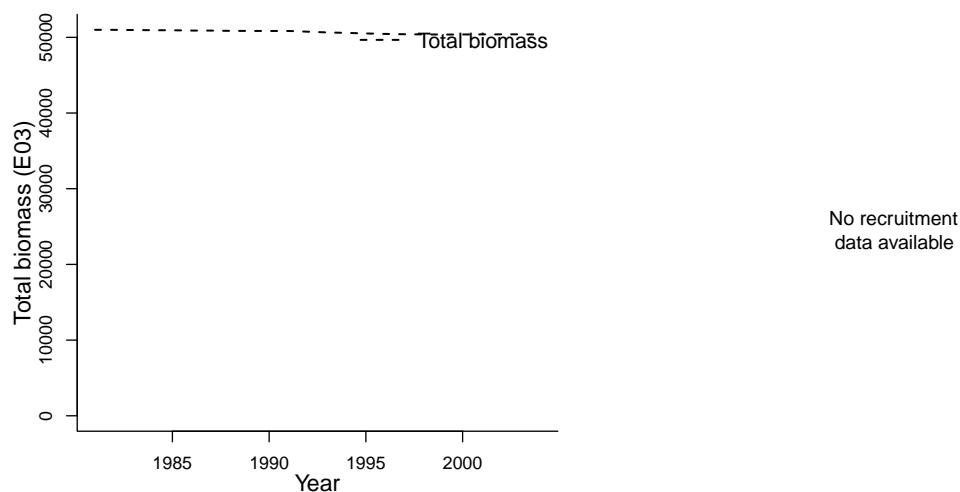
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Carlson, John
Assessment method	State-space age-structured production model
Publication year	2006
Timeseries span	1981-2004
Document	LargeCoastalAtl2006-SEFSC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-05-05
Date last loaded	2010-07-21
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
6 - Southeast U.S. Continental Shelf		7 - Northeast U.S. Continental Shelf		na		
Parameter	Value	Units	Reference points			
SSB-AGE-yr	7.5	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	Fmsy-1/T (F)	0.2	1/T	
A50-yr	7.5	yr	MSY-MT (TB)	1.49E+04	MT	
REC-AGE			R0-E00	1.50E+06	E00	
TB-AGE-yr			SPRmsy-E00	0.62	E00	
F-AGE-yr			BH-h-dimless	0.38	dimless	
M			$F_{2004}/F_{msy}$	0.005		
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1981	1981
Maximum year			2004	2004
Time series minimum			0.001	50365.1
Time series maximum			0.007	50996.3
Units			1/yr	E03
				E03



# Assessment of Gulf of Mexico blacktip shark (*Carcharhinus limbatus*)

Assessment ID:SEFSC-BTIPSHARGM-1981-2004-FAUCONNET  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/322>

Area ID: USA-NMFS-GM

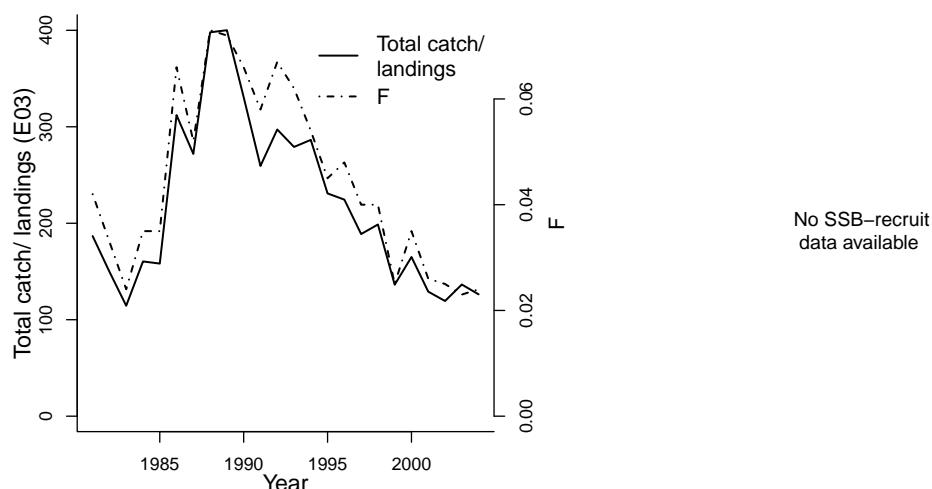
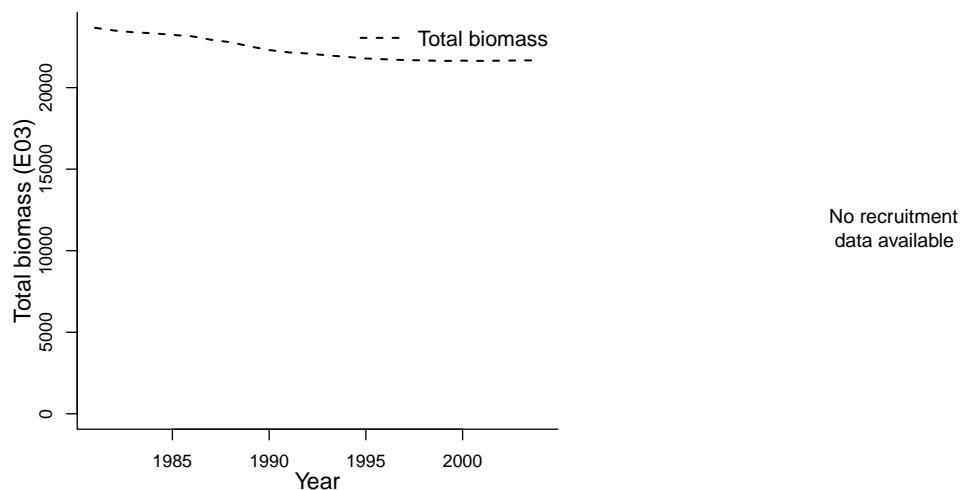
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Carlson, John
Assessment method	State-space age-structured production model
Publication year	2006
Timeseries span	1981-2004
Document	LargeCoastalAtl2006-SEFSC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-05-04
Date last loaded	2010-07-21
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
5 - Gulf of Mexico			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	6.5	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	Fmsy-1/T (F)	0.20	1/T
A50-yr	6.5	yr	MSY-MT (TB)	2.42E+04	MT
REC-AGE			R0-E00	1.50E+07	E00
TB-AGE-yr			SPRmsy-E00	0.62	E00
F-AGE-yr			BH-h-dimless	0.40	dimless
M			$F_{2004}/F_{msy}$	0.120	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1981	1981
Maximum year			2004	2004
Time series minimum	0.023			21636.06
Time series maximum	0.073			23667.92
Units	1/yr		E03	E03



# Assessment of Atlantic finetooth shark (*Carcharhinus isodon*)

Assessment ID:SEFSC-FTOOTHSARATL-1976-2005-FAUCONNET  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/323>

Area ID: USA-NMFS-ATL

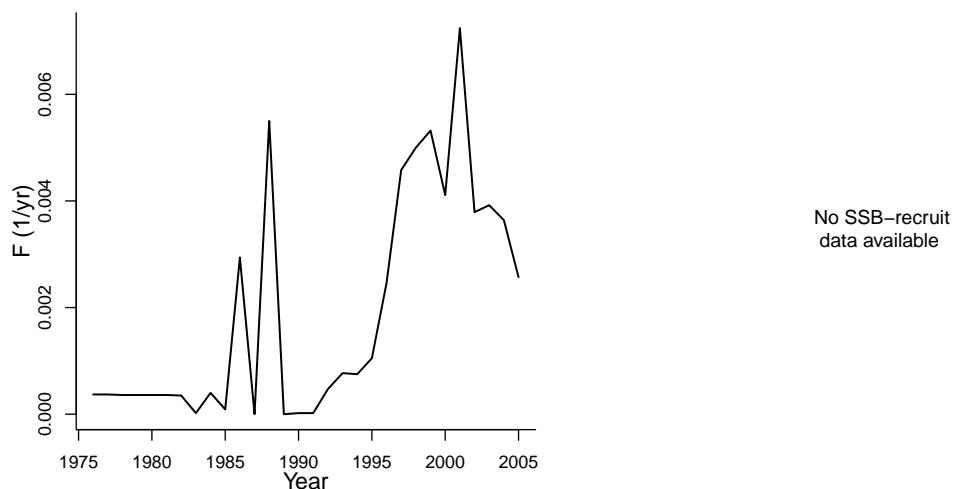
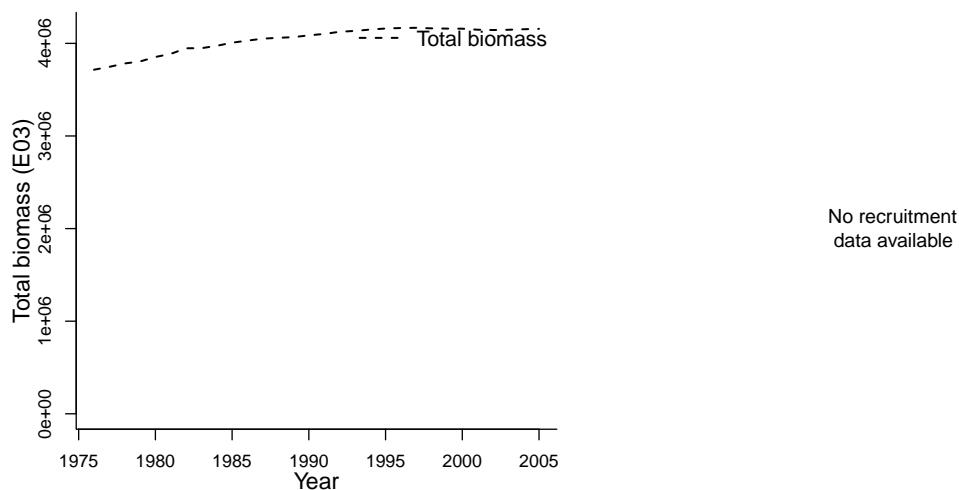
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Brooks, Liz
Assessment method	Bayesian Biomass Model
Publication year	2007
Timeseries span	1976-2005
Document	SmallcoastalAtl2007-SEFSC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-05-07
Date last loaded	2010-07-21
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	
6 - Southeast U.S. Continental Shelf	7 - Northeast U.S. Continental Shelf			na	
Parameter	Value	Units	Reference points		
A50-yr	5	yr	Parameter	Value	Units
REC-AGE			Fmsy-1/T (F)	0.030	1/T
SSB-AGE-yr			Nmsy-E00	3199000	E00
SSB-SEX-sex			MSY-E00	96000	E00
TB-AGE-yr			K-E00	6397000	E00
F-AGE-yr			RY-E00	21000	E00
M			r-1/yr	0.060	1/yr
L50-cm			$F_{2005}/F_{msy}$	0.086	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1976	1976
Maximum year			2005	2005
Time series minimum		0		3715591
Time series maximum		0.00724		4168160
Units		1/yr		E03



# Assessment of Gulf of Mexico gag (*Mycteroperca microlepis*)

Assessment ID:SEFSC-GAGGM-1963-2004-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/18>

Area ID: USA-NMFS-GM

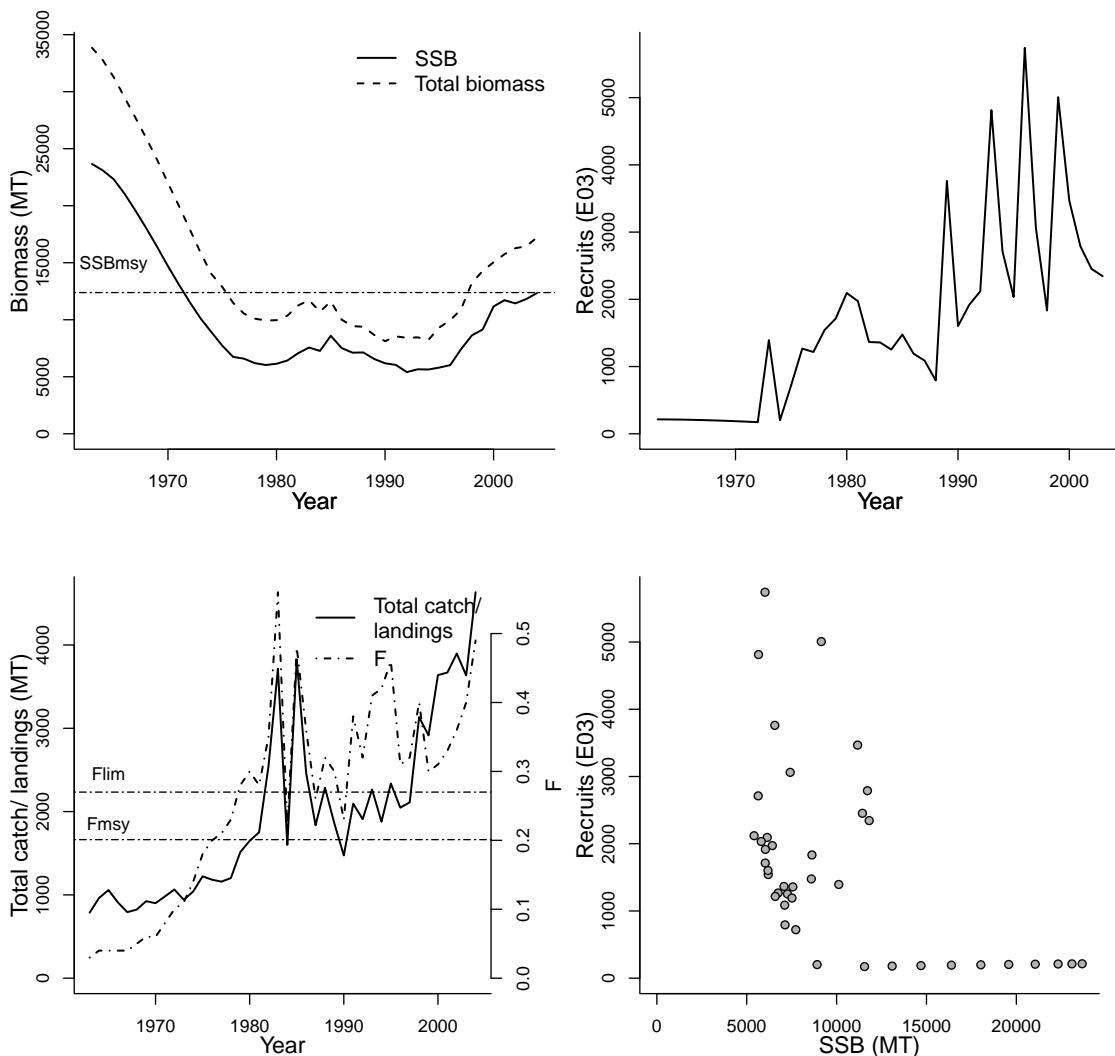
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Unknown
Publication year	2007
Timeseries span	1963-2004
Document	JENSEN_GAGGM_2007.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-03-16

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

primary LME			secondary LME		tertiary LME	
5 - Gulf of Mexico			na	na		
Parameter	Value	Units	Parameter	Reference points	Value	Units
A50-yr	3.5	yr	F0.1-1/yr (F)		0.129	1/yr
M-1/T	AVAILABLE	1/T	Flim-1/yr (F)		0.27	1/yr
REC-AGE			Fmax-1/yr (F)		0.201	1/yr
SSB-AGE-yr			Fmsy-1/yr (F)		0.201	1/yr
SSB-SEX-sex			MSY-MT (TB)		2241.65	MT
TB-AGE-yr			SSBmsy-MT (SSB)		12383.06	MT
F-AGE-yr			$F_{2004}/F_{lim}$		1.815	
M			$F_{2004}/F_{msy}$		2.438	
L50-cm			$SSB_{2004}/SSB_{msy}$		0.997	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1963	1963	1963	1963
Maximum year	2004	2003	2004	2004
Time series minimum	5410.9	172.637	0.03	8116.58
Time series maximum	23661.63	5741.39	0.56	33847.49
Units	MT	E03	1/yr	MT



# Assessment of Southern Atlantic coast gag (*Mycteroperca microlepis*)

Assessment ID:SEFSC-GAGSATLC-1962-2005-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/17>

Area ID: USA-NMFS-SATLC

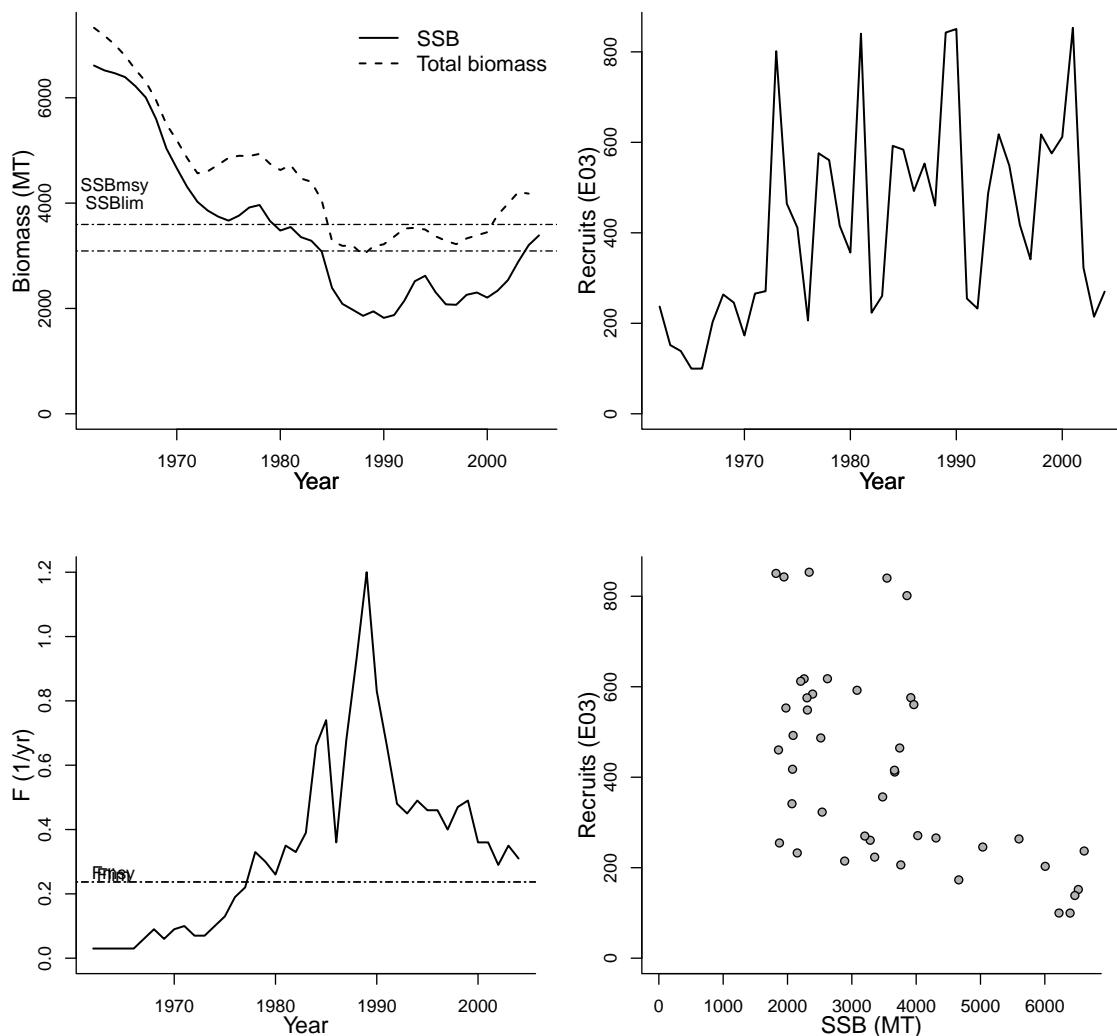
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2006
Timeseries span	1962-2005
Document	JENSEN_GAGSATLC_2006.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-03-16

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

primary LME			secondary LME		tertiary LME
6 - Southeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Reference points		
M-1/yr	0.14	1/yr	SSBlim-MT (SSB)	3091.456276	MT
REC-AGE			Flim-1/yr (F)	0.237	1/yr
SSB-AGE-yr			Fmsy-1/yr (F)	0.237	1/yr
SSB-SEX-sex			MSY-MT (TB)	562	MT
TB-AGE-yr			SSBmsy-MT (SSB)	3594.7166	MT
F-AGE-yr			SSB <sub>2005</sub> /SSB <sub>lim</sub>	1.096	
M			F <sub>2004</sub> /F <sub>lim</sub>	1.308	
A50-yr			F <sub>2004</sub> /F <sub>m<sub>sy</sub></sub>	1.308	
L50-cm			SSB <sub>2005</sub> /SSB <sub>m<sub>sy</sub></sub>	0.942	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1962	1962	1962	1962
Maximum year	2005	2004	2004	2004
Time series minimum	1820.98	99.7721	0.03	3016.8
Time series maximum	6611.83	853.149	1.2	7328.64
Units	MT	E03	1/yr	MT



# Assessment of Gulf of Mexico greater amberjack (*Seriola dumerili*)

Assessment ID:SEFSC-GRAMBERGM-1986-2004-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/20>

Area ID: USA-NMFS-GM

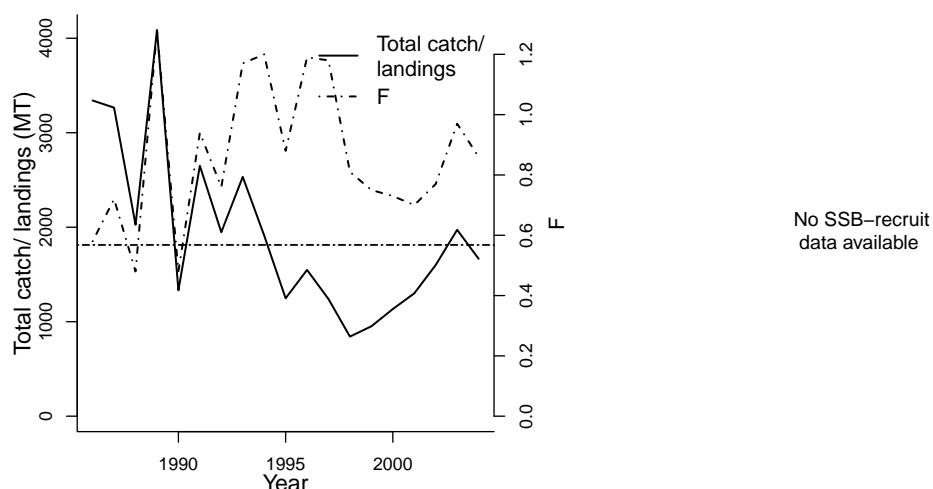
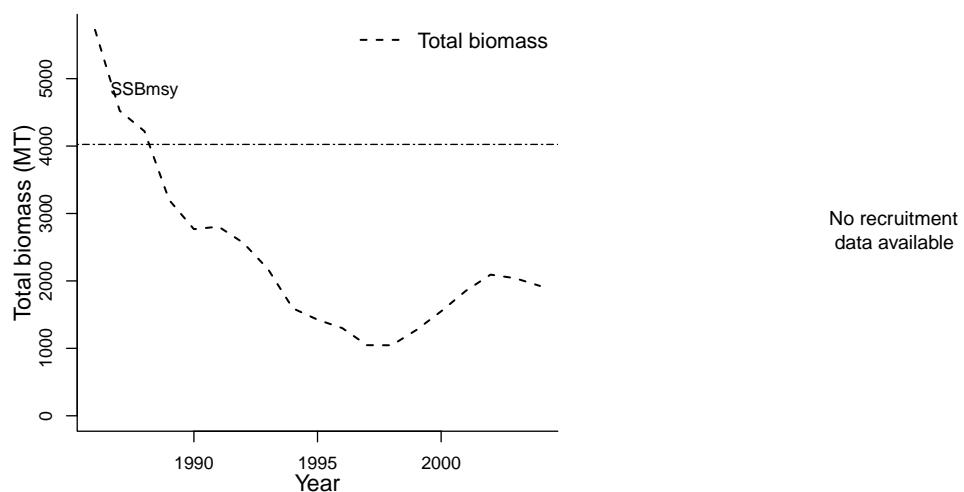
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Surplus production model
Publication year	2006
Timeseries span	1986-2004
Document	JENSEN_GRAMBERGM_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-03-16

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

primary LME			secondary LME		tertiary LME	
5 - Gulf of Mexico			na		na	
Parameter	Value	Units	Reference points			
REC-AGE			Parameter	Value	Units	
SSB-AGE-yr			SSBmsy-MT (SSB)	4024.721816	MT	
SSB-SEX-sex			Flim-1/yr (F)	0.5679	1/yr	
TB-AGE-yr			Fmsy-1/T (F)	0.5679	1/T	
F-AGE-yr			MSY-MT (TB)	2285.650088	MT	
M			$F_{2004}/F_{lim}$	1.514		
A50-yr			$F_{2004}/F_{msy}$	1.514		
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1986	1986
Maximum year			2004	2004
Time series minimum			0.48	1045.53
Time series maximum			1.28	5724.33
Units			1/yr	MT
				MT



# Assessment of Southern Atlantic coast greater amberjack (*Seriola dumerili*)

Assessment ID:SEFSC-GRAMBERSATLC-1946-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/70>

Area ID: USA-NMFS-SATLC

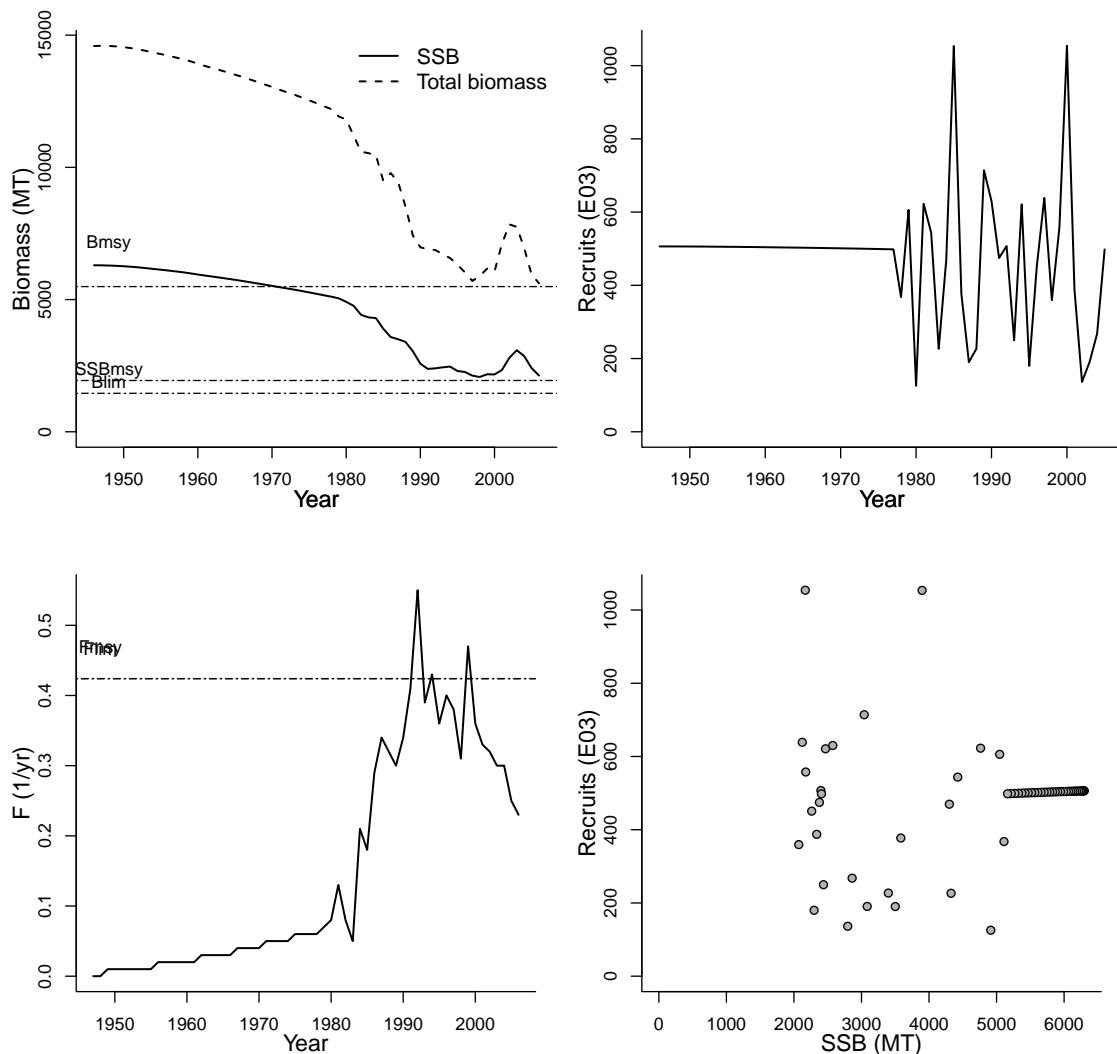
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1946-2006
Document	JENSEN_GRAMBERSATLC_2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-23
Date last loaded	2010-02-12
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
6 - Southeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Reference points		
M-1/yr	0.25	1/yr	Blim-MT (TB)	1455	MT
REC-AGE			Bmsy-MT (TB)	5491	MT
SSB-AGE-yr			Flim-1/yr (F)	0.424	1/yr
SSB-SEX-sex			Fmsy-1/T (F)	0.424	1/T
TB-AGE-yr			MSY-MT (TB)	2005	MT
F-AGE-yr			SSBmsy-MT (SSB)	1940	MT
M			$F_{2006}/F_{lim}$	0.542	
A50-yr			$TB_{2006}/B_{msy}$	1.023	
L50-cm			$F_{2006}/F_{msy}$	0.542	
			$SSB_{2006}/SSB_{msy}$	1.096	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1946	1946	1947	1946
Maximum year	2006	2005	2006	2006
Time series minimum	2071.47	125.609	0	5616.53
Time series maximum	6297.2	1054.1	0.55	14597.1
Units	MT	E03	1/yr	MT



# Assessment of Gulf of Mexico gray triggerfish (*Balistes capriscus*)

Assessment ID:SEFSC-GTRIGGM-1981-2004-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/67>

Area ID: USA-NMFS-GM

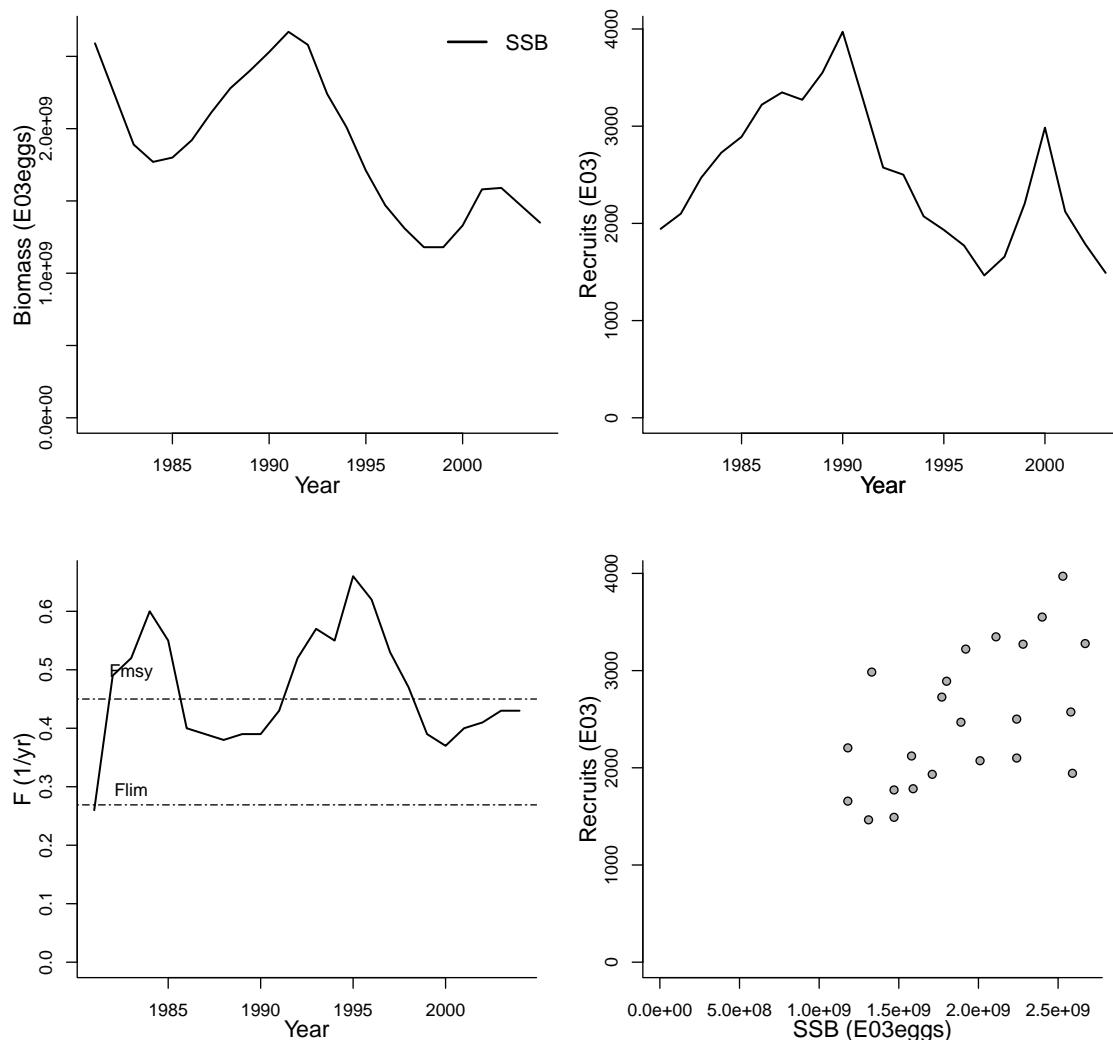
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Age-structured surplus production model
Publication year	2006
Timeseries span	1981-2004
Document	JENSEN_GTRIGGM_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-21
Date last loaded	2010-07-21
QA/QC complete	NO
Date approved	

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

Parameter	primary LME		secondary LME	tertiary LME
	5 - Gulf of Mexico	na	na	
M-1/yr	0.27	1/yr		
REC-AGE			Parameter	Reference points
SSB-AGE-yr			Flim-1/yr (F)	0.269
SSB-SEX-sex			Fmsy-1/T (F)	0.45
TB-AGE-yr			MSY-MT (TB)	743
F-AGE-yr			SSBmsy-E03eggs	1210000000 E03eggs
M			$F_{2004}/F_{lim}$	1.599
A50-yr			$F_{2004}/F_{msy}$	0.956
L50-cm			$SSB_{2004}/SSB_{msy}$	1.116

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981	1981	1981		
Maximum year	2004	2003	2004		
Time series minimum	1180000000	1464.6	0.26		
Time series maximum	2670000000	3971.1	0.66		
Units	E03eggs	E03	1/yr		



# Assessment of Gulf of Mexico king mackerel (*Scomberomorus cavalla*)

Assessment ID:SEFSC-KMACKGM-1992-2001-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/71>

Area ID: USA-NMFS-GM

## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Virtual Population Analysis
Publication year	2004
Timeseries span	1992-2001
Document	JENSEN_KMACKGMSATLC_2004.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-23
Date last loaded	2010-03-05
QA/QC complete	NO
Date approved	

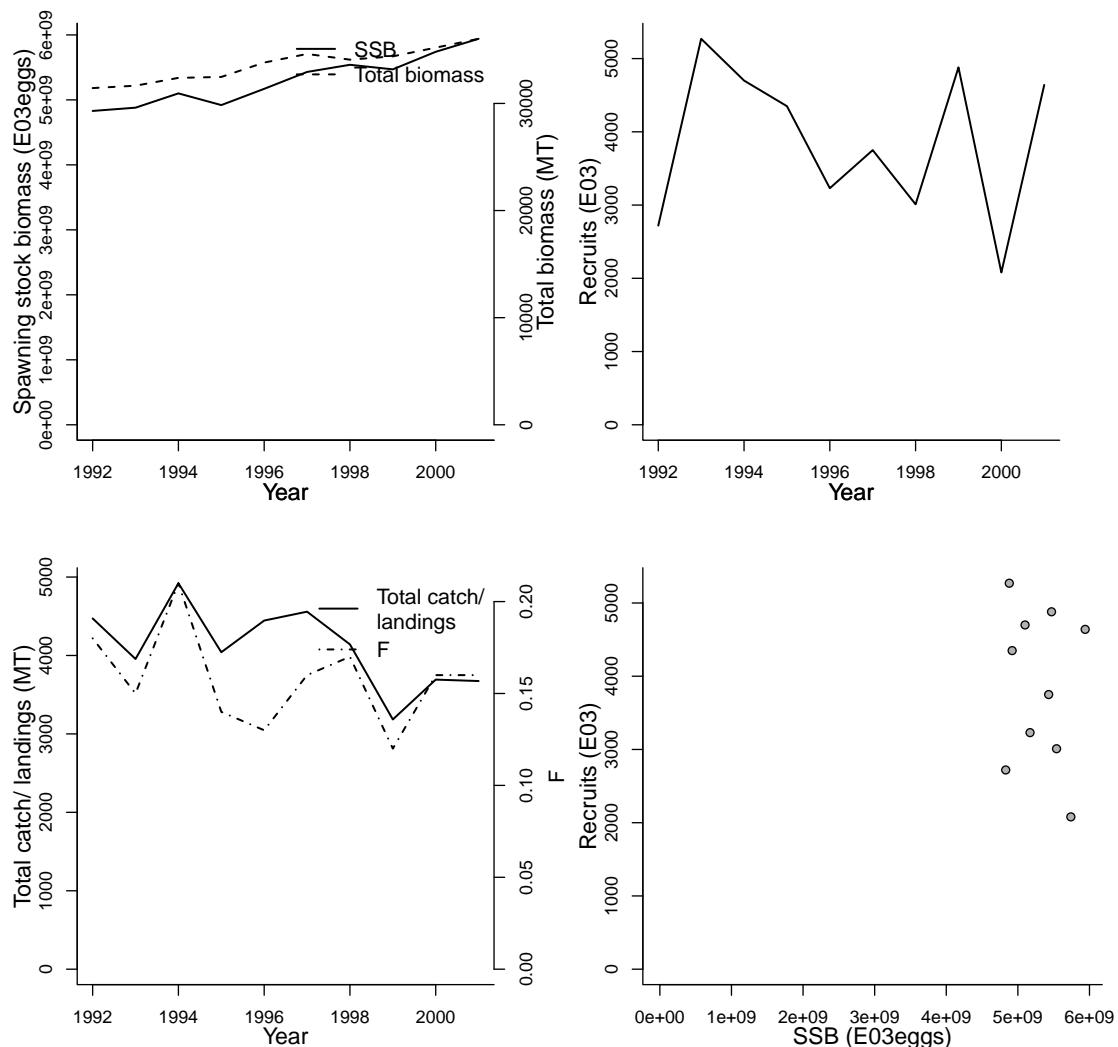
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			5 - Gulf of Mexico	na	na
M-1/yr	0.2	1/yr			
REC-AGE					
SSB-AGE-yr					
SSB-SEX-sex					
TB-AGE-yr					
F-AGE-yr					
M					
A50-yr					
L50-cm					

Parameter	Value	Units	Reference points
			Parameter
			Value
			Units
Fmsy-1/T (F)	0.269	1/T	
MSY-MT (TB)	5178.659864	MT	
SSBmsy-E03eggs	6385000000	E03eggs	
$F_{2001}/F_{m sy}$	0.595		
$SSB_{2001}/SSB_{m sy}$	0.930		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1992	1992	1992	1992	1992
Maximum year	2001	2001	2001	2001	2001
Time series minimum	4830000000	2080	0.12	31433.93	3184.22
Time series maximum	5940000000	5270	0.21	36033.35	4921.47
Units	E03eggs	E03	1/yr	MT	MT



# Assessment of Southern Atlantic coast king mackerel (*Scomberomorus cavalla*)

Assessment ID:SEFSC-KMACKSATLC-1981-2001-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/72>

Area ID: USA-NMFS-SATLC

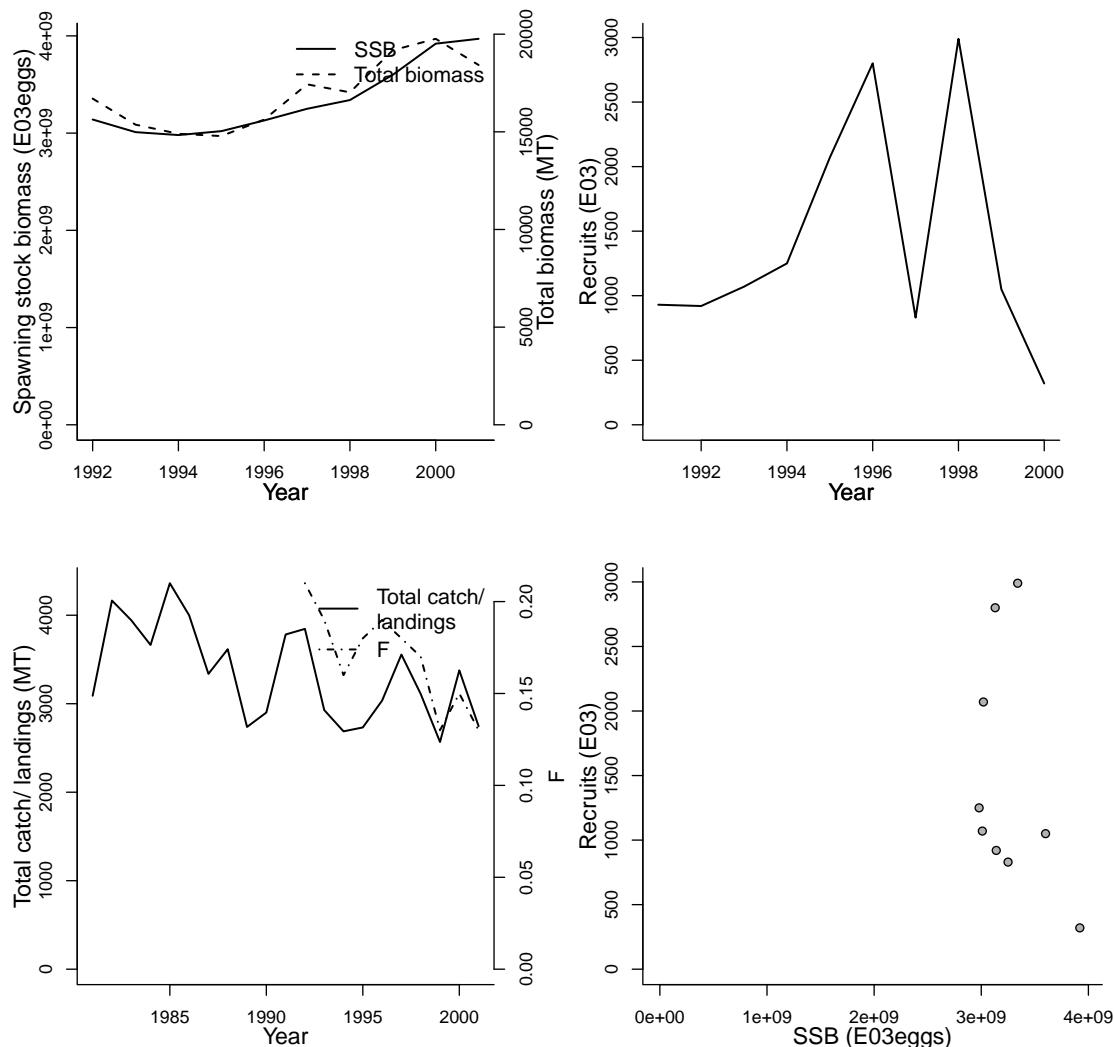
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Virtual Population Analysis
Publication year	2004
Timeseries span	1981-2001
Document	JENSEN_KMACKGMSATLC_2004.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-23
Date last loaded	2009-03-25
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
6 - Southeast U.S. Continental Shelf			na	na
Parameter	Value	Units	Reference points	
M-1/yr	0.15	1/yr	Parameter	Value
REC-AGE				Units
SSB-AGE-yr			F <sub>msy</sub> -1/T (F)	1/T
SSB-SEX-sex			MSY-MT (TB)	MT
TB-AGE-yr			SSB <sub>msy</sub> -E03eggs	E03eggs
F-AGE-yr			$F_{2001}/F_{msy}$	0.448
M			$SSB_{2001}/SSB_{msy}$	1.355
A50-yr				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1992	1991	1992	1992	1981
Maximum year	2001	2000	2001	2001	2001
Time series minimum	2980000000	320	0.13	14782.56	2567.33
Time series maximum	3970000000	2990	0.21	19763	4361.74
Units	E03eggs	E03	1/yr	MT	MT



# Assessment of Gulf of Mexico gulf menhaden (*Brevoortia patronus*)

Assessment ID:SEFSC-MENATGM-1964-2004-GILROY

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/141>

Area ID: USA-NMFS-GM

## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Vaughan, Douglas
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1964-2004
Document	GILROY-MENHADENGM-2007.pdf (pdf in database)
Recorder	GILROY
Date entered	2009-02-16
Date last loaded	2010-07-21
QA/QC complete	NO
Date approved	

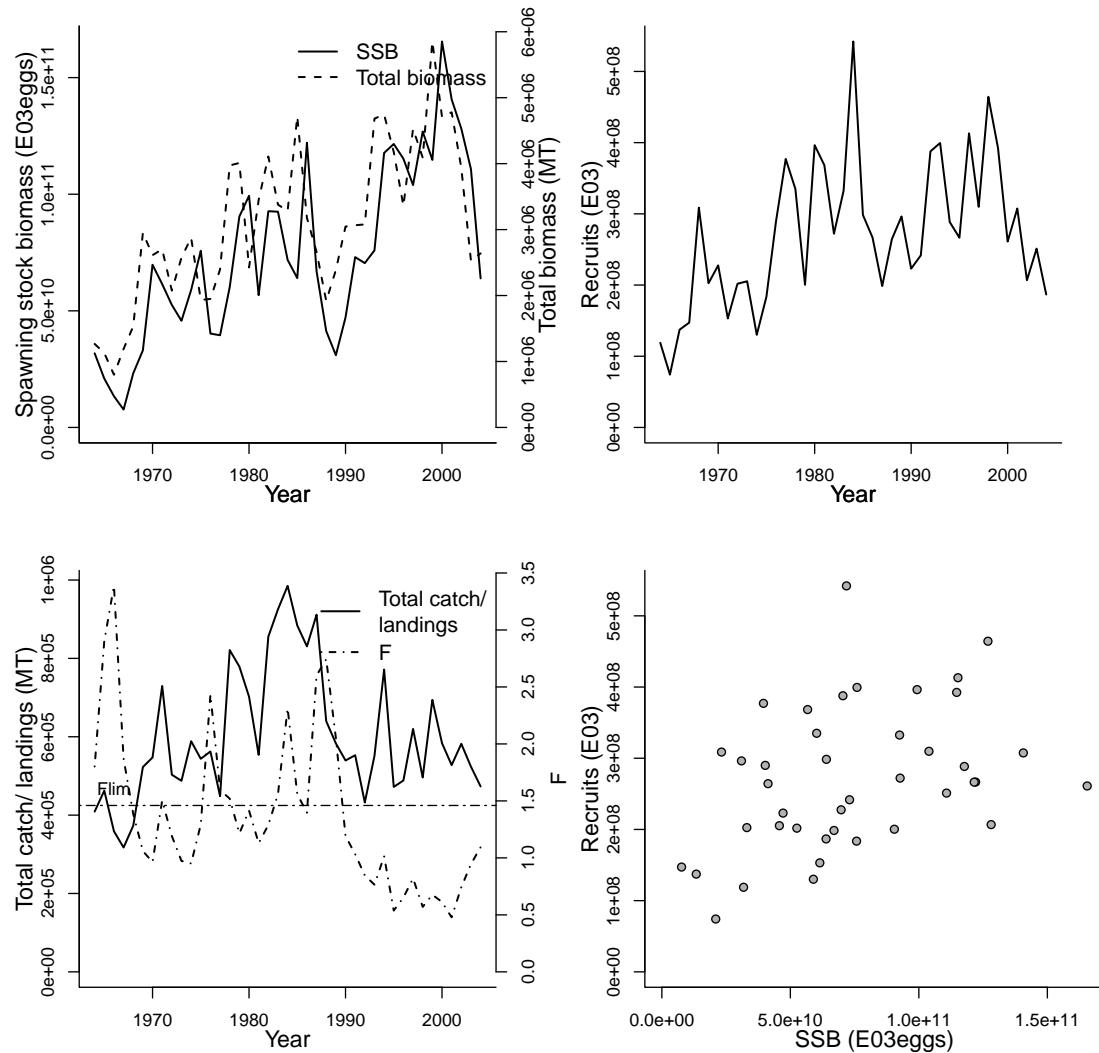
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
5 - Gulf of Mexico	na	na
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
Flim-1/yr (F)	1.46	1/yr
Fcurrent-1/T (F)	1.094	1/T
F0.1-1/yr (F)	3.12	1/yr
$F_{2004}/F_{lim}$	0.749	

	Time series minima and maxima				
	SSB	R	F	TB	Catch
Minimum year	1964	1964	1964	1964	1964
Maximum year	2004	2004	2004	2004	2004
Time series minimum	7668110000	74200000	0.478	799000	317300
Time series maximum	165498000000	542100000	3.387	5852700	985100
Units	E03eggs	E03	1/yr	MT	MT



# Assessment of Southern Atlantic coast and Gulf of Mexico mutton snapper (*Lutjanus analis*)

Assessment ID:SEFSC-MUTSNAPSATLCGM-1981-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/85>

Area ID: USA-NMFS-SATLCGM

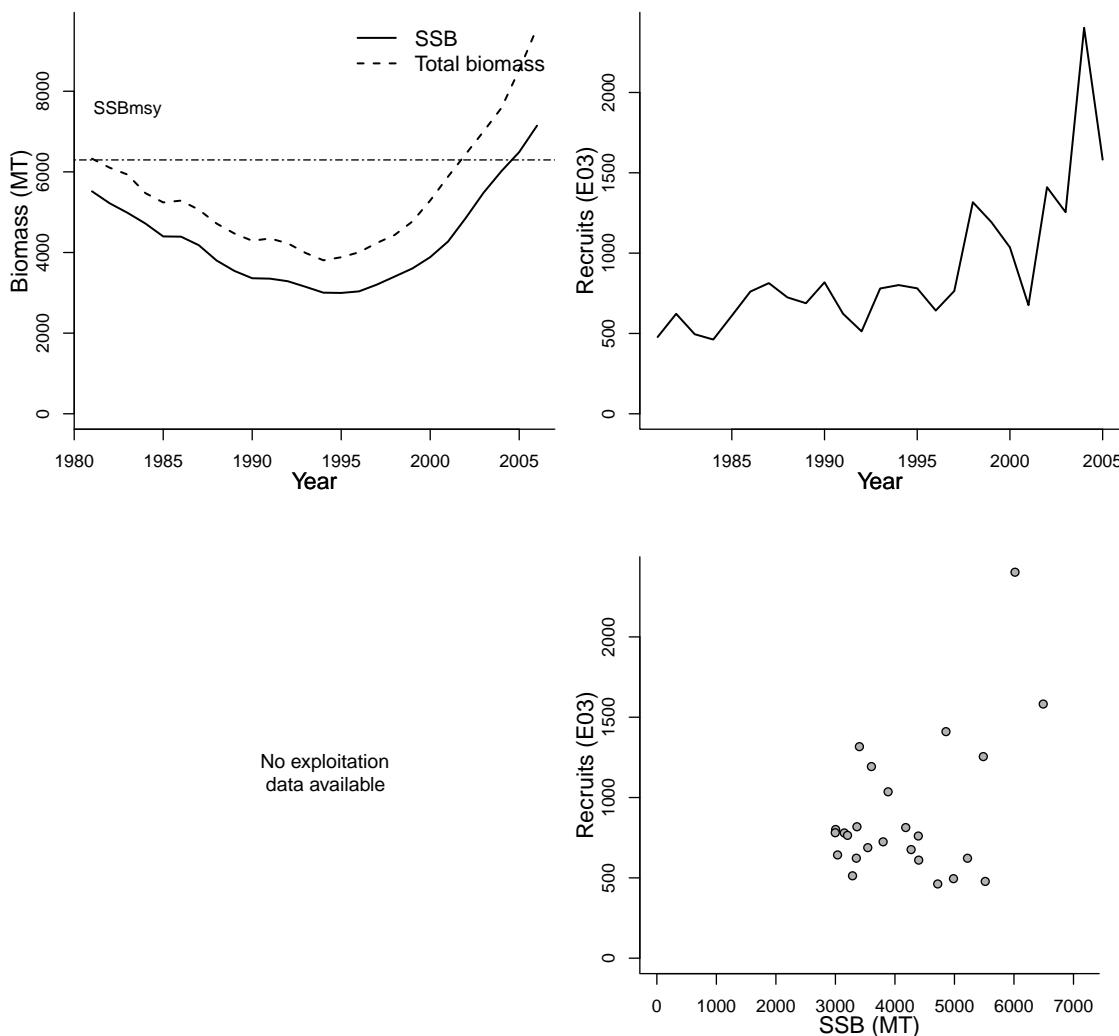
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1981-2006
Document	JENSEN_MUTSNAPSATLCGM_2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-25
Date last loaded	2009-03-25
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
6 - Southeast U.S. Continental Shelf		5 - Gulf of Mexico	na	
Parameter	Value	Units		
A50-yr	3.7	yr		
M-1/yr	0.11	1/yr		
REC-AGE			Reference points	
SSB-AGE-yr			Parameter	Value
SSB-SEX-sex			Fmsy-1/T (F)	0.340
TB-AGE-yr			MSY-MT (TB)	688
F-AGE-yr			SSBmsy-MT (SSB)	6296
M			$SSB_{2006}/SSB_{m sy}$	1.135
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981	1981		1981	
Maximum year	2006	2005		2006	
Time series minimum	2997.36	462.157		3806.68	
Time series maximum	7145.87	2402.66		9573.19	
Units	MT	E03		MT	



# Assessment of Gulf of Mexico red grouper (*Epinephelus morio*)

Assessment ID:SEFSC-RGROUPGM-1986-2005-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/68>

Area ID: USA-NMFS-GM

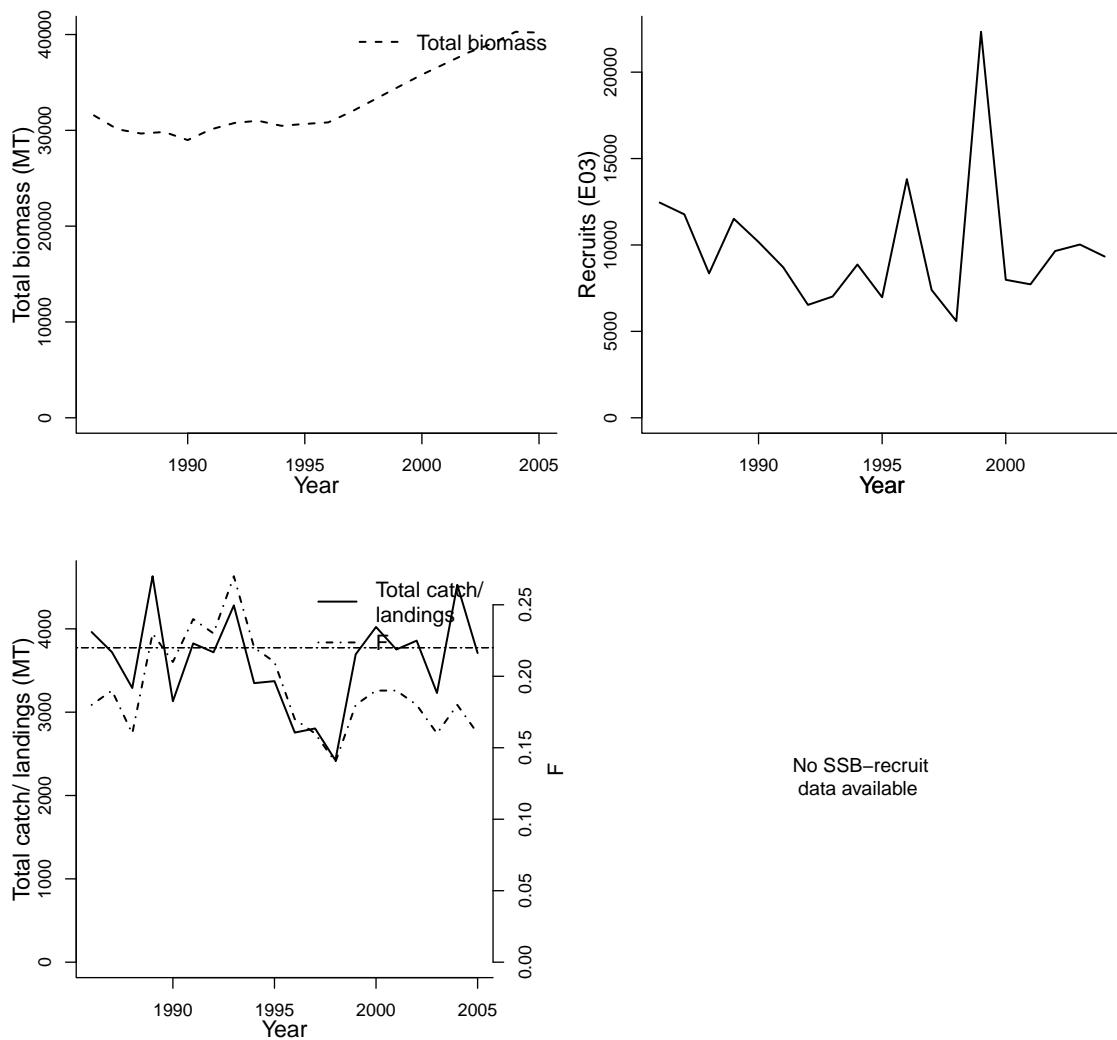
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Age Structured Assessment Program
Publication year	2006
Timeseries span	1986-2005
Document	JENSEN-RGROUPGM-2006.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-22
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2009-06-05

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

primary LME	secondary LME	tertiary LME
5 - Gulf of Mexico	na	na
<hr/>		
Parameter	Value	Units
M-1/yr	0.14	1/yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units
SSBlim-FemaleGonadMT	509	FemaleGonadMT
SSBmsy-FemaleGonadMT	591	FemaleGonadMT
Flim-1/yr (F)	0.22	1/yr
Fmsy-1/yr (F)	0.22	1/yr
MSY-MT (TB)	3501.73024	MT
$F_{2005}/F_{lim}$	0.727	
$F_{2005}/F_{msy}$	0.727	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year		1986	1986	1986
Maximum year		2004	2005	2005
Time series minimum	5595.53	0.14	28984.4	2423.59
Time series maximum	22335	0.27	40284.12	4631.5
Units	E03	1/yr	MT	MT



# Assessment of Southern Atlantic coast red porgy

## *(Pagrus pagrus)*

Assessment ID:SEFSC-RPORGYSATLC-1972-2004-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/73>

Area ID: USA-NMFS-SATLC

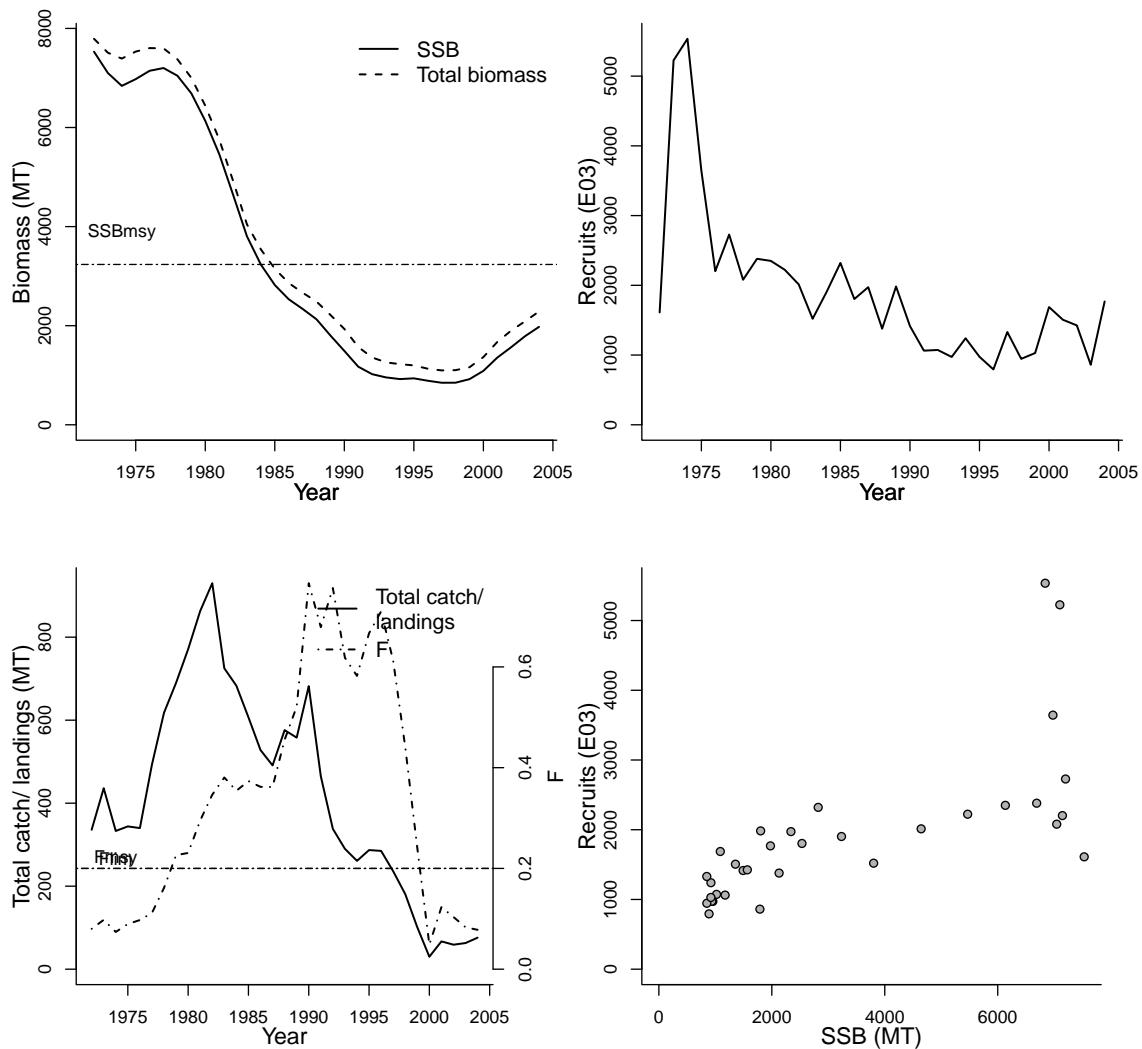
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Statistical catch-at-age model
Publication year	2006
Timeseries span	1972-2004
Document	JENSEN_RPORGYSATLC_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-25
Date last loaded	2010-05-05
QA/QC complete	YES
Date approved	2010-05-05

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

primary LME	secondary LME	tertiary LME
6 - Southeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
A50-yr	2	yr
M-1/T	0.225	1/T
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		
<hr/>		
Parameter	Reference points	
Parameter	Value	Units
Blim-FemaleGonadMT	2507.9155	FemaleGonadMT
Flim-1/yr (F)	0.2	1/yr
Fmsy-1/yr (F)	0.200	1/yr
MORATOR-yr-yr	1999-2000	yr-yr
MSY-MT (TB)	283.81	MT
SSBmsy-MT (SSB)	3236.02	MT
$F_{2004}/F_{lim}$	0.391	
$F_{2004}/F_{msy}$	0.391	
$SSB_{2004}/SSB_{msy}$	0.611	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1972	1972	1972	1972
Maximum year	2004	2004	2004	2004
Time series minimum	848.386	793.722	0.04862	1097.46
Time series maximum	7530.42	5535.27	0.76616	7790.46
Units	MT	E03	1/yr	MT



# Assessment of Eastern Gulf of Mexico red snapper (*Lutjanus campechanus*)

Assessment ID:SEFSC-RSNAPEGM-1872-2003-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/455>

Area ID: USA-NMFS-EGM

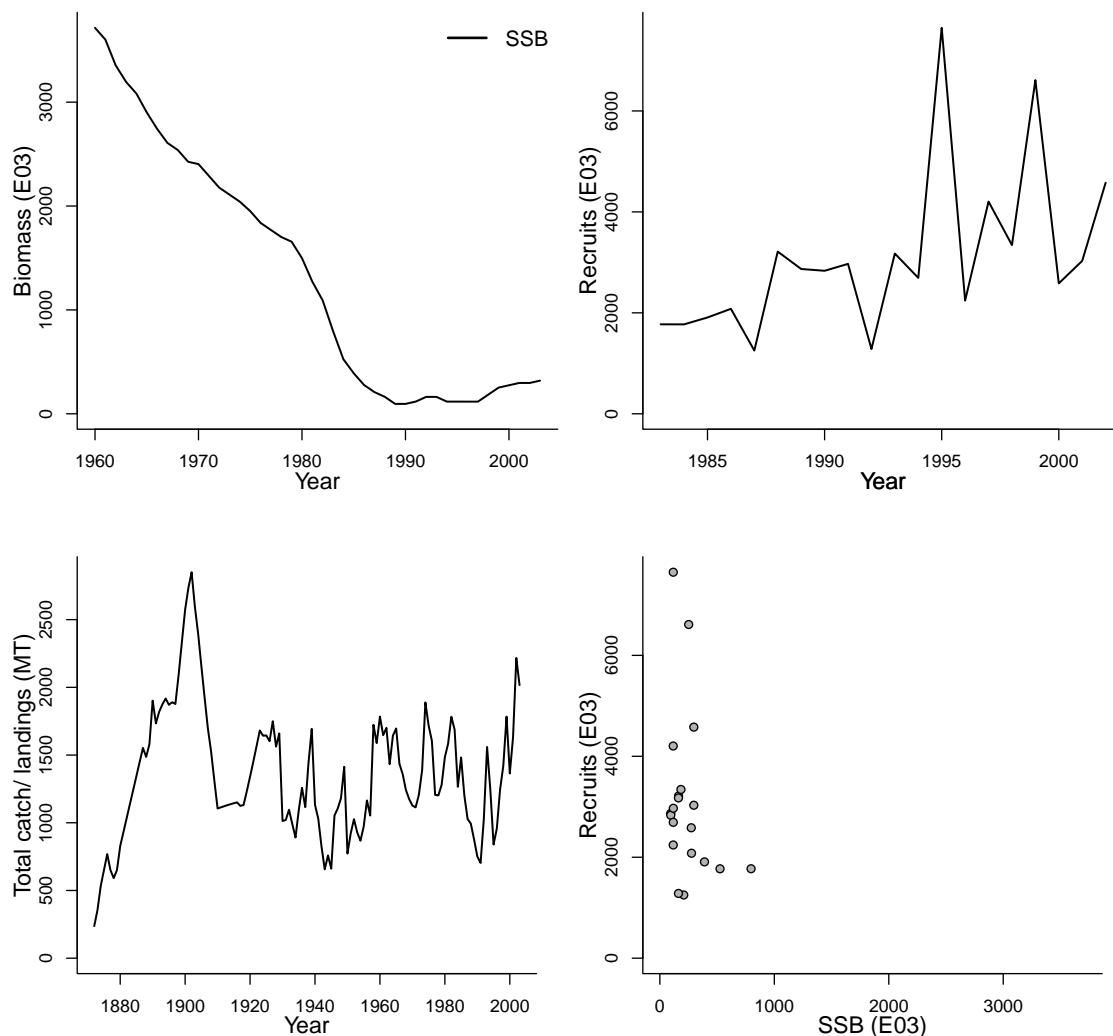
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	SEDAR
Assessment method	Statistical catch-at-age model
Publication year	2005
Timeseries span	1872-2003
Document	RedSnapper-SEDAR-2008.pdf (pdf in database)
Recorder	STANTON
Date entered	2010-05-10
Date last loaded	2010-05-12
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
5 - Gulf of Mexico	na	na
<hr/>		
Parameter	Value	Units
REC-AGE-yr	1+	yr
M-1/yr	0.1	1/yr
NATMORT-1/yr	0.29	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Parameter	Reference points	
Parameter	Value	Units
Fref-1/T (F)	0.069	1/T
NATMORT-1/yr (M)	0.29	1/yr
SSBmsy-MT (SSB)	1236505.488524	MT
MSY-MT (TB)	18656.4456137168	MT
BH-h-dimless	0.9	dimless
$SSB_{2003}/SSB_{msy}$	0.000	

Time series minima and maxima				
	SSB	R	F	Catch
Minimum year	1960	1983		1872
Maximum year	2003	2002		2003
Time series minimum	95.143	1252.8		236.46949588262
Time series maximum	3715.9	7647.4		2850.18167632275
Units	E03	E03		MT



# Assessment of Southern Atlantic coast red snapper (*Lutjanus campechanus*)

Assessment ID:SEFSC-RSNAPSATLC-1945-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/69>

Area ID: USA-NMFS-SATLC

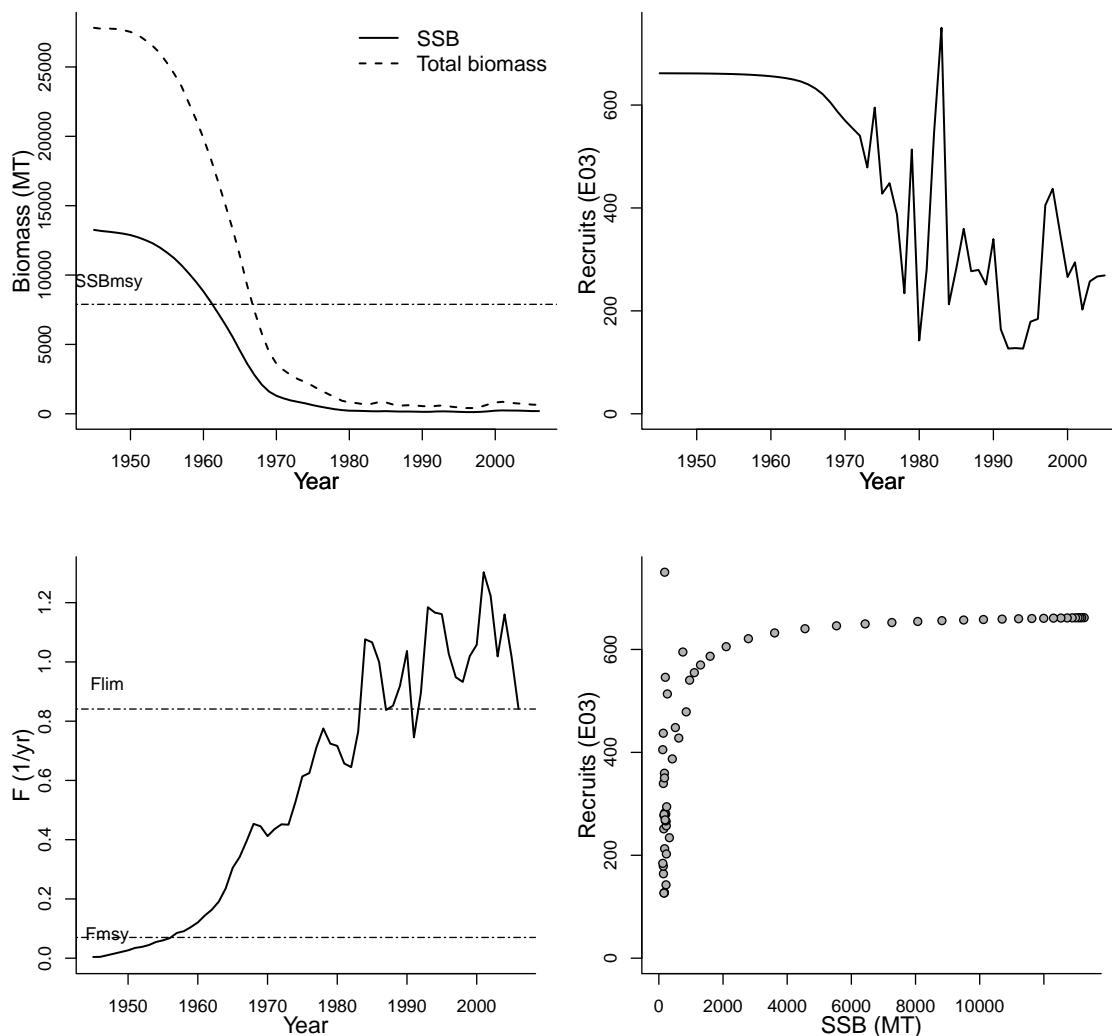
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1945-2006
Document	JENSEN_RSNAPSATLC_2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-22
Date last loaded	2009-03-25
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
6 - Southeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-SEX-sex	1	sex
M-1/yr	0.078	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Parameter	Reference points	
Parameter	Value	Units
Blim-FemaleGonadMT	7275	FemaleGonadMT
Flim-1/yr (F)	0.841	1/yr
Fmsy-1/T (F)	0.07	1/T
MSY-MT (TB)	1049.61	MT
SSBmsy-MT (SSB)	7.89E+03	MT
$F_{2006}/F_{lim}$	1.001	
$F_{2006}/F_{msy}$	12.021	
$SSB_{2006}/SSB_{msy}$	0.025	

Time series minima and maxima				
	SSB	R	F	Catch
Minimum year	1945	1945	1945	1945
Maximum year	2006	2005	2006	2006
Time series minimum	121.502	126.576	0.00411	412.95
Time series maximum	13256.2	750.12	1.30281	27822.6
Units	MT	E03	1/yr	MT



# Assessment of Western Gulf of Mexico red snapper (*Lutjanus campechanus*)

Assessment ID:SEFSC-RSNAPWGM-1880-2003-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/456>

Area ID: USA-NMFS-WGM

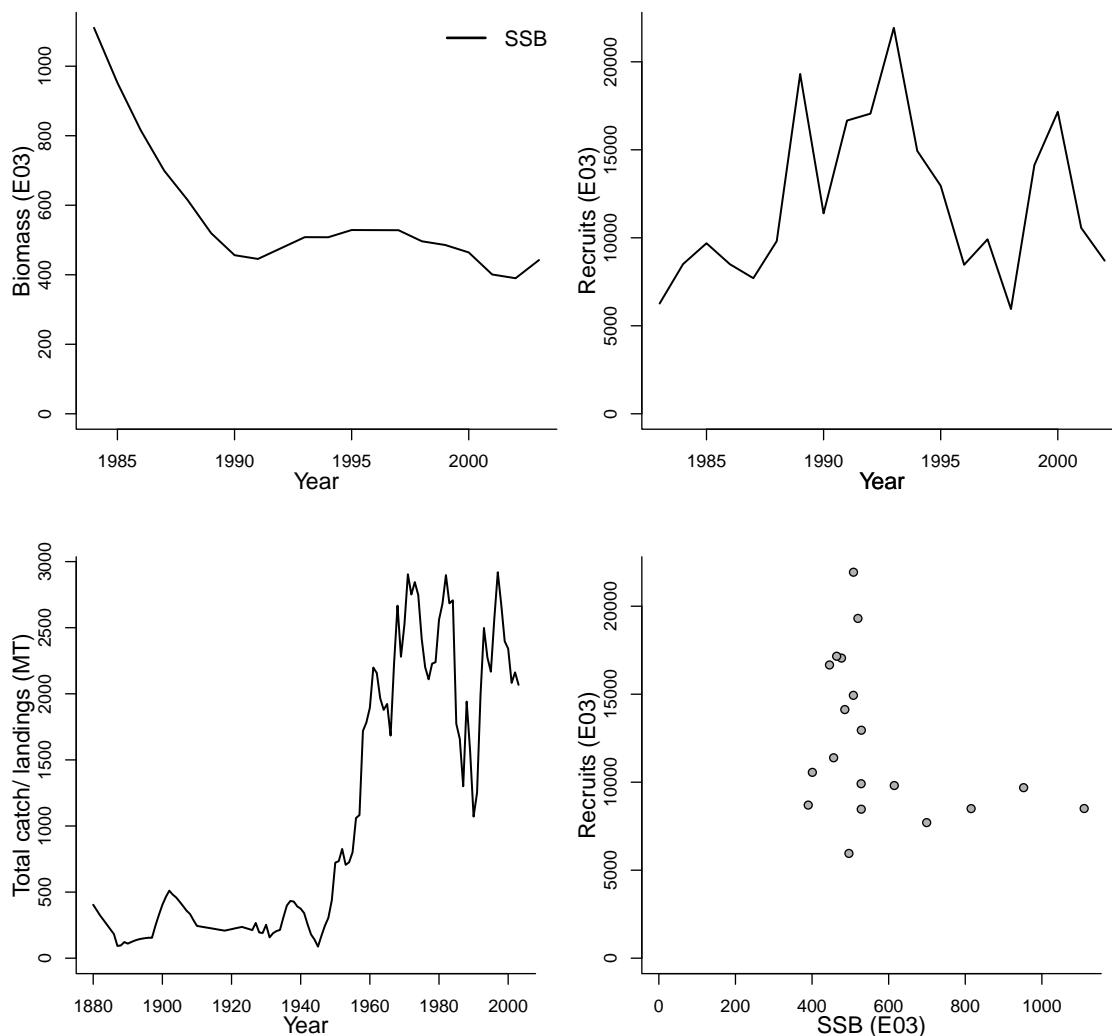
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	SEDAR
Assessment method	Statistical catch-at-age model
Publication year	2005
Timeseries span	1880-2003
Document	RedSnapper-SEDAR-2008.pdf (pdf in database)
Recorder	STANTON
Date entered	2010-05-10
Date last loaded	2010-05-12
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
5 - Gulf of Mexico	na	na
<hr/>		
Parameter	Value	Units
REC-AGE-yr	1+	yr
M-1/yr	0.1	1/yr
NATMORT-1/yr	0.29	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units
Fref-1/T (F)	0.069	1/T
NATMORT-1/yr (M)	0.29	1/yr
SSBmsy-MT (SSB)	1236505.488524	MT
MSY-MT (TB)	18656.4456137168	MT
BH-h-dimless	0.9	dimless
<i>SSB</i> <sub>2003</sub> / <i>SSB</i> <sub>msy</sub>	0.000	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1984	1983		1880
Maximum year	2003	2002		2003
Time series minimum	390	5953.2		87.59095460885
Time series maximum	1110.5	21933		2919.80356919405
Units	E03	E03		MT



# Assessment of Atlantic sandbar shark (*Carcharhinus plumbeus*)

Assessment ID:SEFSC-SBARSHARATL-1975-2004-FAUCONNET

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/304>

Area ID: USA-NMFS-ATL

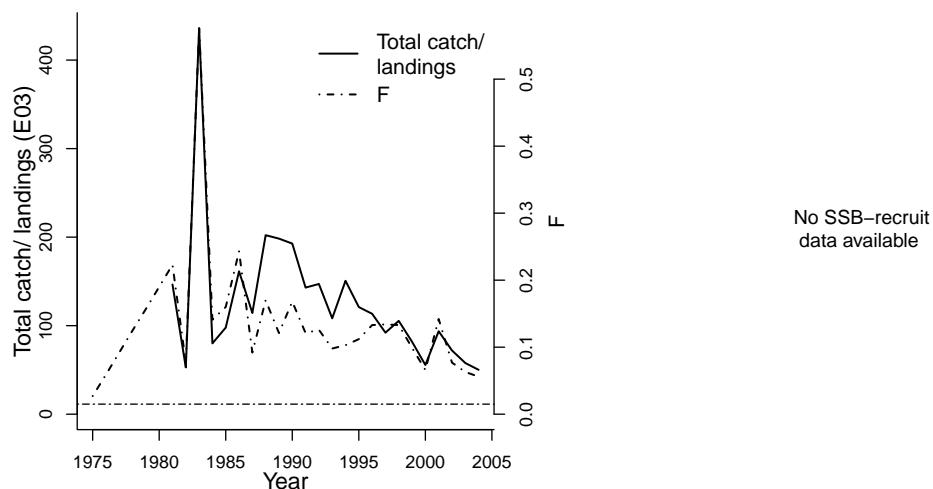
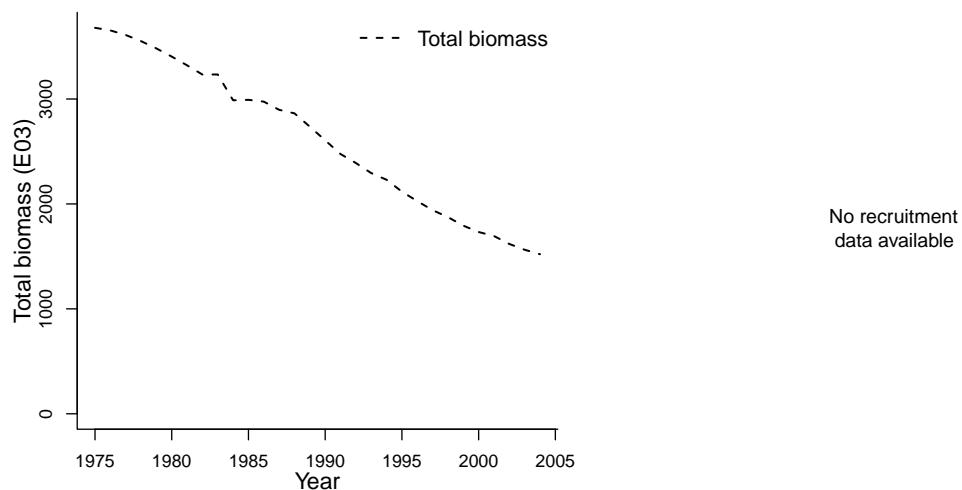
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Carlson, John
Assessment method	State-space age-structured production model
Publication year	2006
Timeseries span	1975-2004
Document	LargeCoastalAtl2006-SEFSC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-04-29
Date last loaded	2010-02-25
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		
8 - Scotian Shelf	7 - Northeast U.S. Continental Shelf	na			
Parameter	Value	Units	Reference points		
SSB-AGE-yr	19	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	Fmsy-1/T (F)	0.015	1/T
A50-yr	19	yr	Fref-1/T (F)	9.80E-05	1/T
M-1/T	0.224	1/T	MSY-MT (TB)	403	MT
REC-AGE			RO-E00	5.00E+05	E00
TB-AGE-yr			SPRmsy-E00	0.95	E00
F-AGE-yr			SSFmsy-E00	1127210.53	E00
M			BH-h-dimless	0.32	dimless
L50-cm			$F_{2004}/F_{msy}$	3.733	

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year			1975	1975	1981
Maximum year			2004	2004	2004
Time series minimum			0.027	1520.56	50.1
Time series maximum			0.576	3678.73	436
Units			1/yr	E03	E03



# Assessment of Atlantic atlantic sharpnose shark (*Rhizoprionodon terraenovae*)

Assessment ID:SEFSC-SNOSESHARATL-1950-2005-FAUCONNET

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/325>

Area ID: USA-NMFS-ATL

## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Brooks, Liz
Assessment method	Age-structured surplus production model
Publication year	2007
Timeseries span	1950-2005
Document	SmallcoastalAtl2007-SEFSC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-05-07
Date last loaded	2010-02-25
QA/QC complete	NO
Date approved	

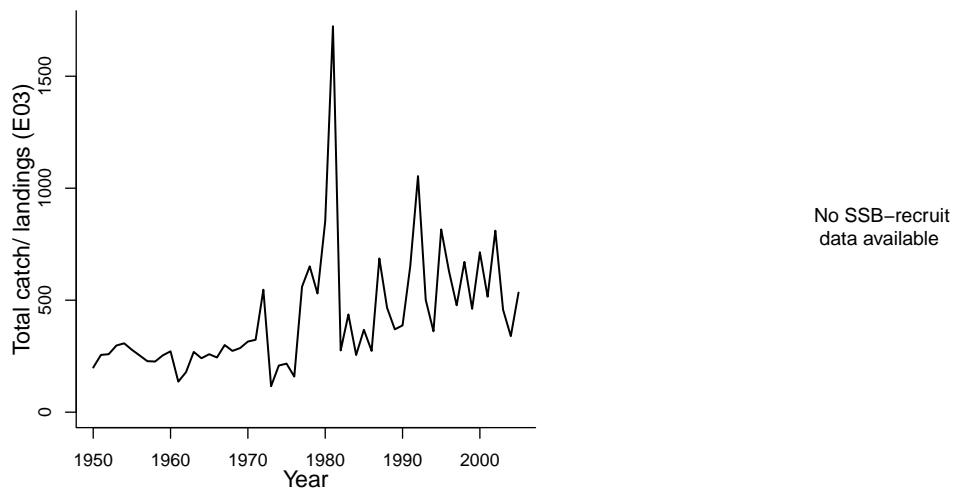
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME			tertiary LME		
6 - Southeast U.S. Continental Shelf			7 - Northeast U.S. Continental Shelf			na		
Parameter	Value	Units	Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	2.5	yr	Fmsy-1/yr (F)	0.19	1/yr			
SSB-SEX-sex	1	sex	Fcurrent-1/T (F)	0.13	1/T			
REC-AGE			MSY-MT (TB)	1.27E+06	MT			
TB-AGE-yr			r-1/yr	0.165	1/yr			
F-AGE-yr			SPRmsy-E00	0.59	E00			
M			SSFmsy-E00	4.59E+06	E00			
A50-yr			Nmsy-E00	4.62E+06	E00			
L50-cm			BH-h-dimless	0.42	dimless			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year					1950
Maximum year					2005
Time series minimum					115.836
Time series maximum					1723.362
Units					E03

No biomass data available

No recruitment data available



# Assessment of Southern Atlantic coast snowy grouper (*Epinephelus niveatus*)

Assessment ID:SEFSC-SNOWGROUPSATLC-1961-2002-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/358>

Area ID: USA-NMFS-SATLC

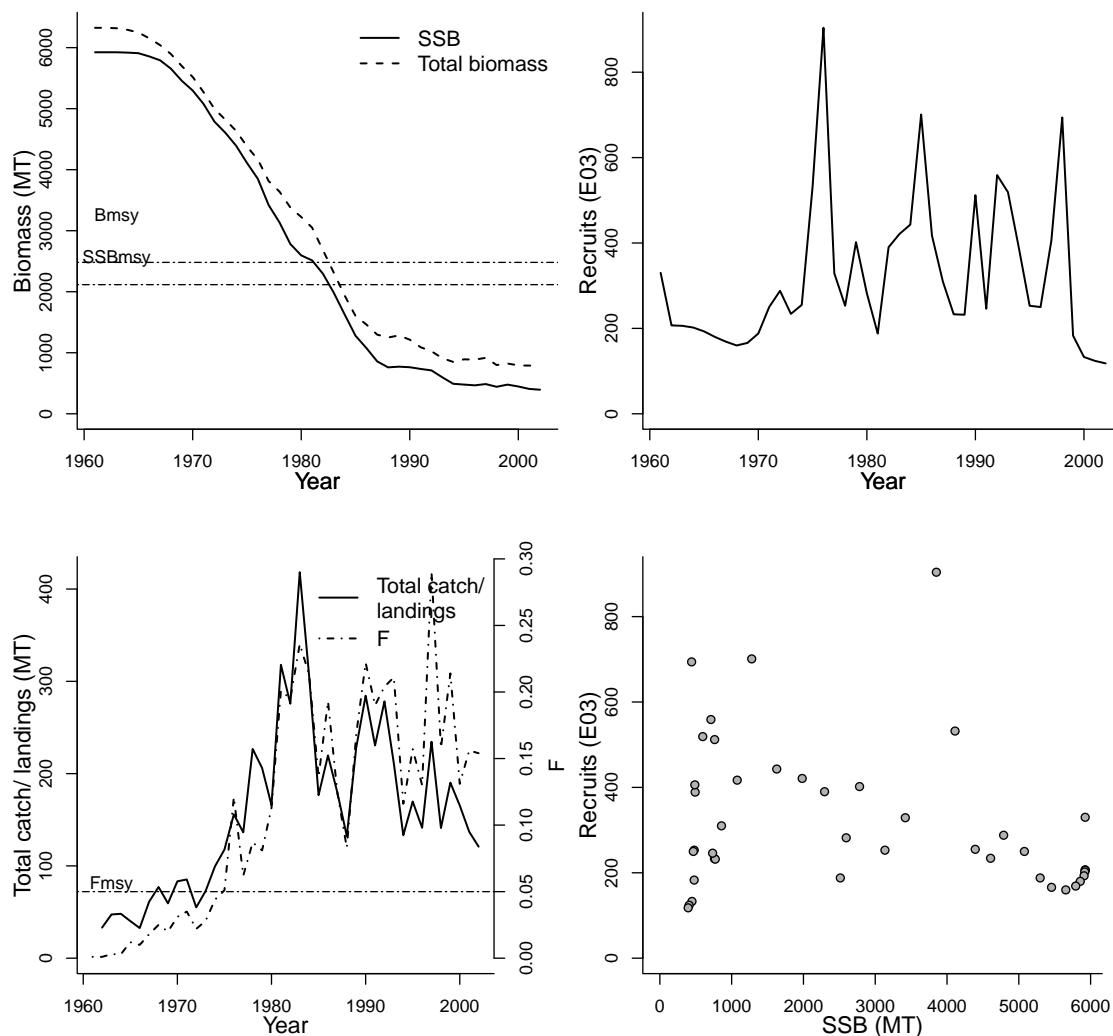
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Statistical catch-at-age model
Publication year	2004
Timeseries span	1961-2002
Document	ref2004-SEDAR-deepwatersnappergrouper.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-29
Date last loaded	2010-07-27
QA/QC complete	YES
Date approved	2010-03-17

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

primary LME			secondary LME		tertiary LME
6 - Southeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	5.6	yr	Fmsy-1/yr (F)	0.05	1/yr
SSB-SEX-sex	1	sex	F40%-1/T	0.047	1/T
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	2116	MT
F-AGE-yr-yr	2+	yr-yr	MSY-MT (TB)	142	MT
TB-AGE-yr	1+	yr	Umsy-ratio (U)	0.037	ratio
L50-cm	52.4	cm	Bmsy-MT (TB)	2481	MT
M			$TB_{2002}/B_{msy}$	0.317	
A50-yr			$F_{2002}/F_{msy}$	3.080	
			$SSB_{2002}/SSB_{msy}$	0.186	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1961	1961	1961	1961	1962
Maximum year	2002	2002	2002	2002	2002
Time series minimum	394.4	118	0.001	785.8	32.68
Time series maximum	5924.4	904	0.29	6325.2	418.26
Units	MT	E03	1/yr	MT	MT



# Assessment of Southern Atlantic coast spanish mackerel (*Scomberomorus maculatus*)

Assessment ID:SEFSC-SPANMACKSATLC-1950-2008-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/75>

Area ID: USA-NMFS-SATLC

General assessment details.

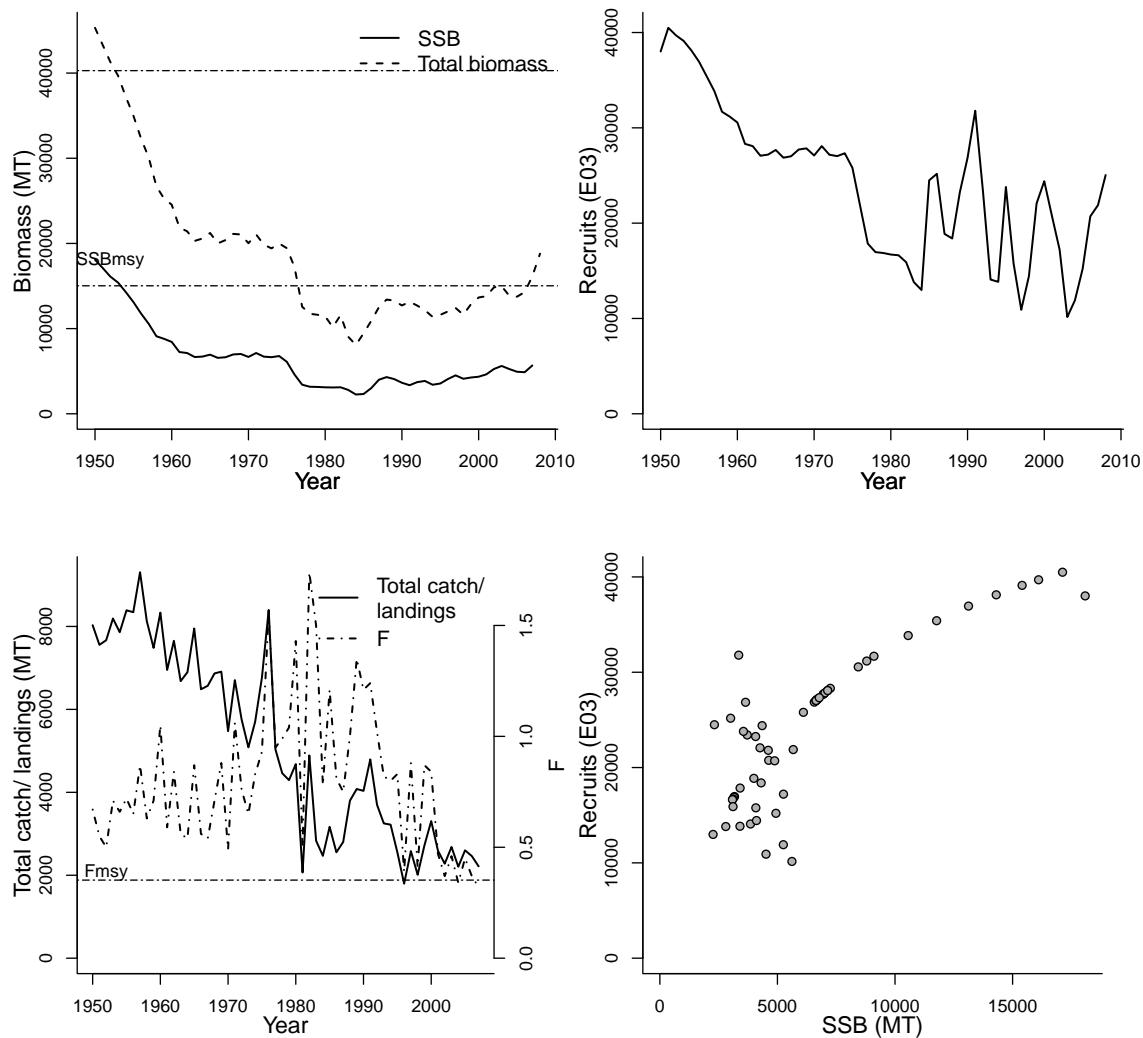
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1950-2008
Document	JENSEN_SPANMACKSATLC_2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-25
Date last loaded	2010-04-30
QA/QC complete	YES
Date approved	2010-04-30

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

primary LME			secondary LME		tertiary LME
6 - Southeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Parameter	Reference points	
REC-AGE			Bmsy-MT (TB)	40288	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.352	1/yr
SSB-SEX-sex			MSY-MT (TB)	5941.60	MT
TB-AGE-yr			SSBmsy-MT (SSB)	15027	MT
F-AGE-yr			$TB_{2008}/B_{msy}$	0.467	
M			$F_{2007}/F_{msy}$	0.909	
A50-yr			$SSB_{2007}/SSB_{msy}$	0.377	
L50-cm					

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1950	1950	1950	1950	1950
Maximum year	2007	2008	2007	2008	2007
Time series minimum	2263	10149.6	0.32	8074	1797.32
Time series maximum	18087	40494.5	1.74	45316	9308.03
Units	MT	E03	1/yr	MT	MT



# Assessment of Southern Atlantic coast tilefish (*Lopholatilus chamaeleonticeps*)

Assessment ID:SEFSC-TILESATLC-1961-2002-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/357>

Area ID: USA-NMFS-SATLC

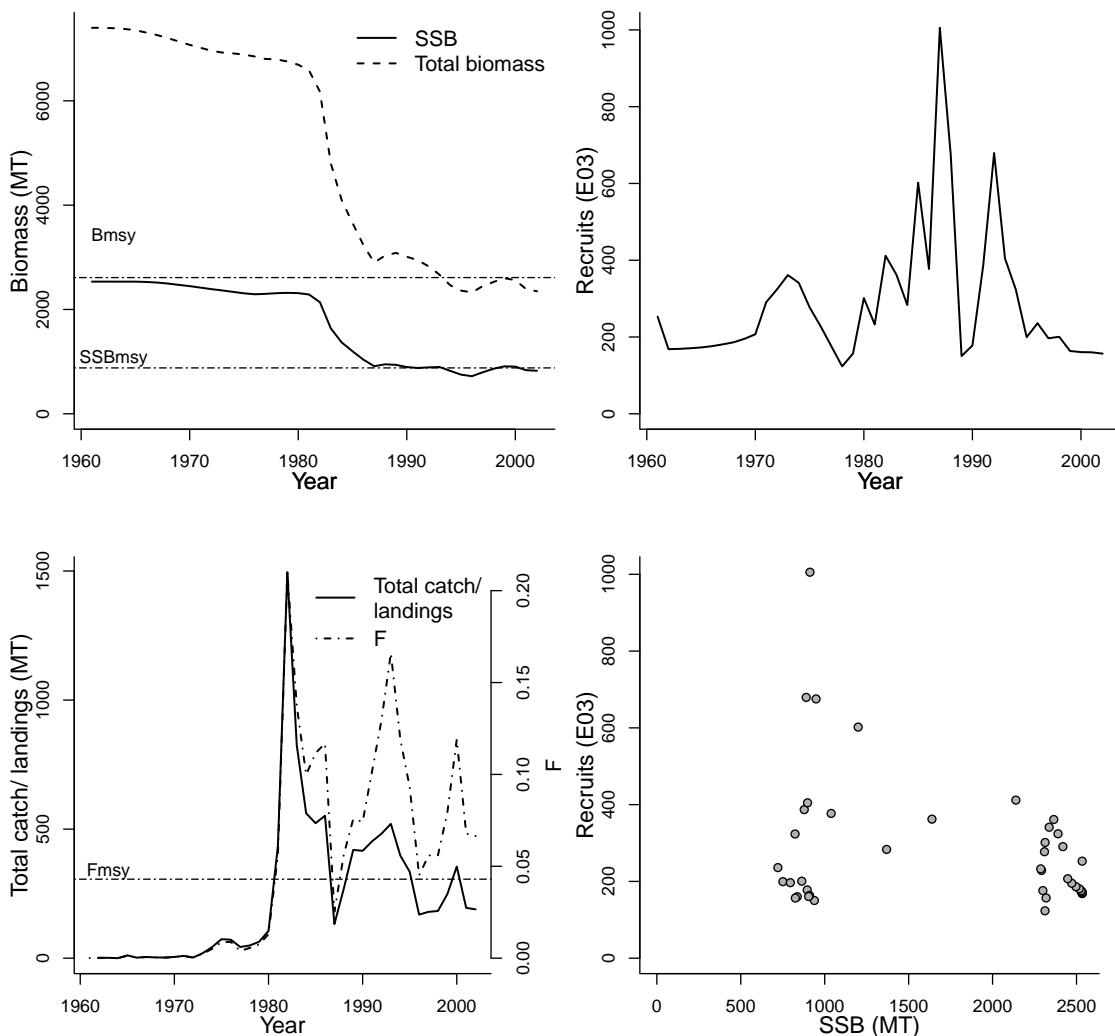
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	SEDAR 4 Stock Assessment Panel
Assessment method	Statistical catch-at-age model
Publication year	2004
Timeseries span	1961-2002
Document	2004-SEDAR-deepwatersnappergrouper.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-29
Date last loaded	2010-03-17
QA/QC complete	YES
Date approved	2010-03-17

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

primary LME			secondary LME		tertiary LME
6 - Southeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Reference points		
SSB-SEX-sex	1	sex	Fmax-1/yr (F)	0.081	1/yr
F-AGE-yr-yr	2+	yr-yr	Fmsy-1/yr (F)	0.043	1/yr
TB-AGE-yr	1+	yr	F40%-1/T	0.043	1/T
REC-AGE			SSBmsy-MT (SSB)	879.4	MT
SSB-AGE-yr			MSY-MT (TB)	152.6	MT
M			Umsy-ratio (U)	0.035	ratio
A50-yr			Bmsy-MT (TB)	2611.4	MT
L50-cm			$TB_{2002}/B_{msy}$	0.899	
			$F_{2002}/F_{msy}$	1.545	
			$SSB_{2002}/SSB_{msy}$	0.938	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1961	1961	1961	1961
Maximum year	2002	2002	2002	2002
Time series minimum	720.9	123.5	6e-05	2326.4
Time series maximum	2533.8	1005.5	0.21004	7400.4
Units	MT	E03	1/yr	MT



# Assessment of Gulf of Mexico vermillion snapper (*Rhomboplites aurorubens*)

Assessment ID:SEFSC-VSNAPGM-1981-2004-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/19>

Area ID: USA-NMFS-GM

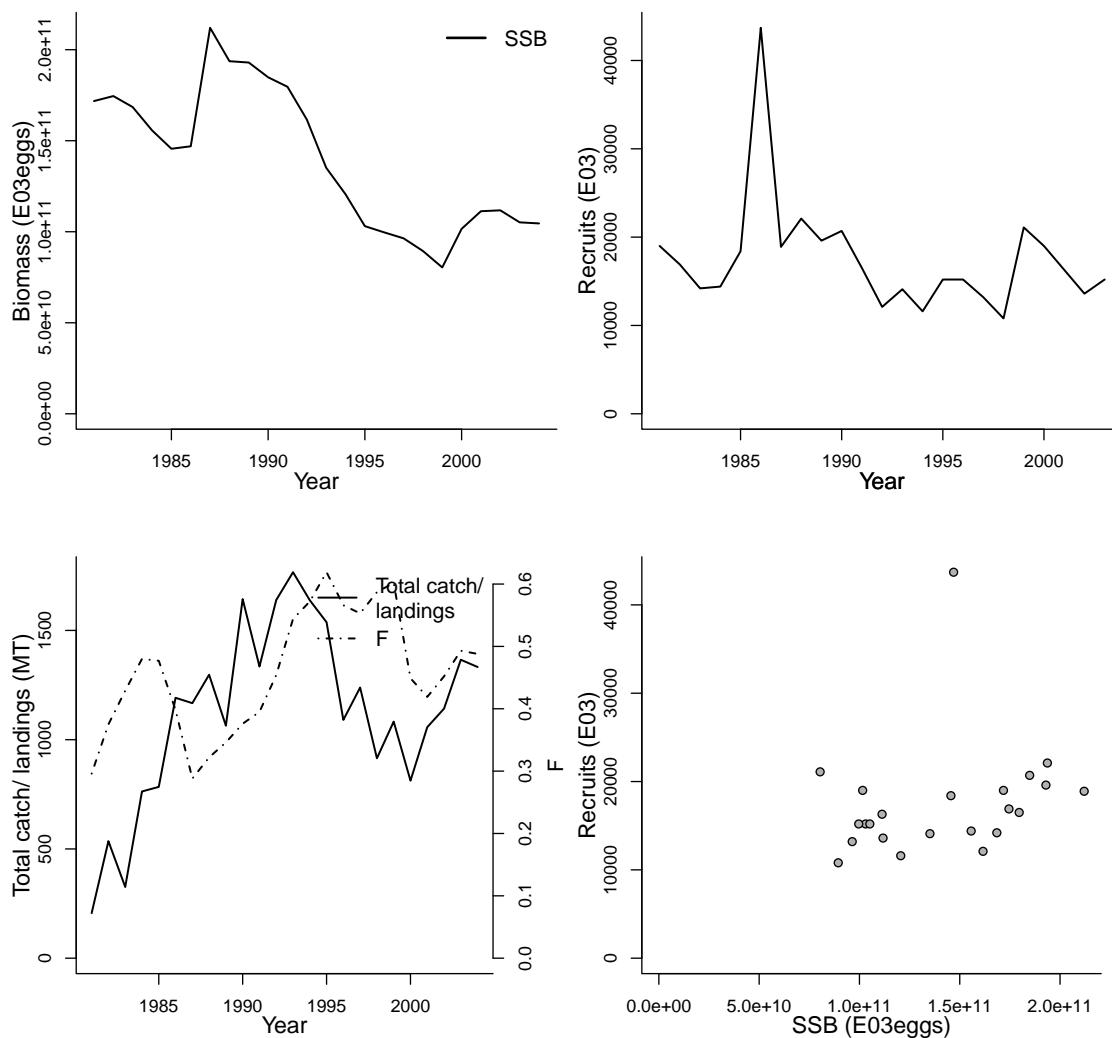
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Age-structured surplus production model
Publication year	2006
Timeseries span	1981-2004
Document	JENSEN_VSNAPGM_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-03-08

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

primary LME	secondary LME	tertiary LME
5 - Gulf of Mexico	na	na
Parameter		
M-1/T	AVAILABLE	1/T
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
Reference points		
Parameter	Value	Units
SSBlim-E00eggs	7.14E+13	E00eggs
Flim-1/yr (F)	0.79	1/yr
Fmsy-1/T (F)	0.81	1/T
MSY-MT (TB)	3374.72	MT
SSBmsy-E03eggs	68800000000	E03eggs
SSB <sub>2004</sub> /SSB <sub>lim</sub>	0.001	
F <sub>2004</sub> /F <sub>lim</sub>	0.618	
F <sub>2004</sub> /F <sub>m sy</sub>	0.602	
SSB <sub>2004</sub> /SSB <sub>m sy</sub>	1.520	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1981	1981	1981	1981
Maximum year	2004	2003	2004	2004
Time series minimum	80395000000	10800	0.288	206.23
Time series maximum	212030000000	43700	0.619	1766.47
Units	E03eggs	E03	1/yr	MT



# Assessment of Southern Atlantic coast vermillion snapper (*Rhomboplites aurorubens*)

Assessment ID:SEFSC-VSNAPSATLC-1946-2008-STANTON  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/356>

Area ID: USA-NMFS-SATLC

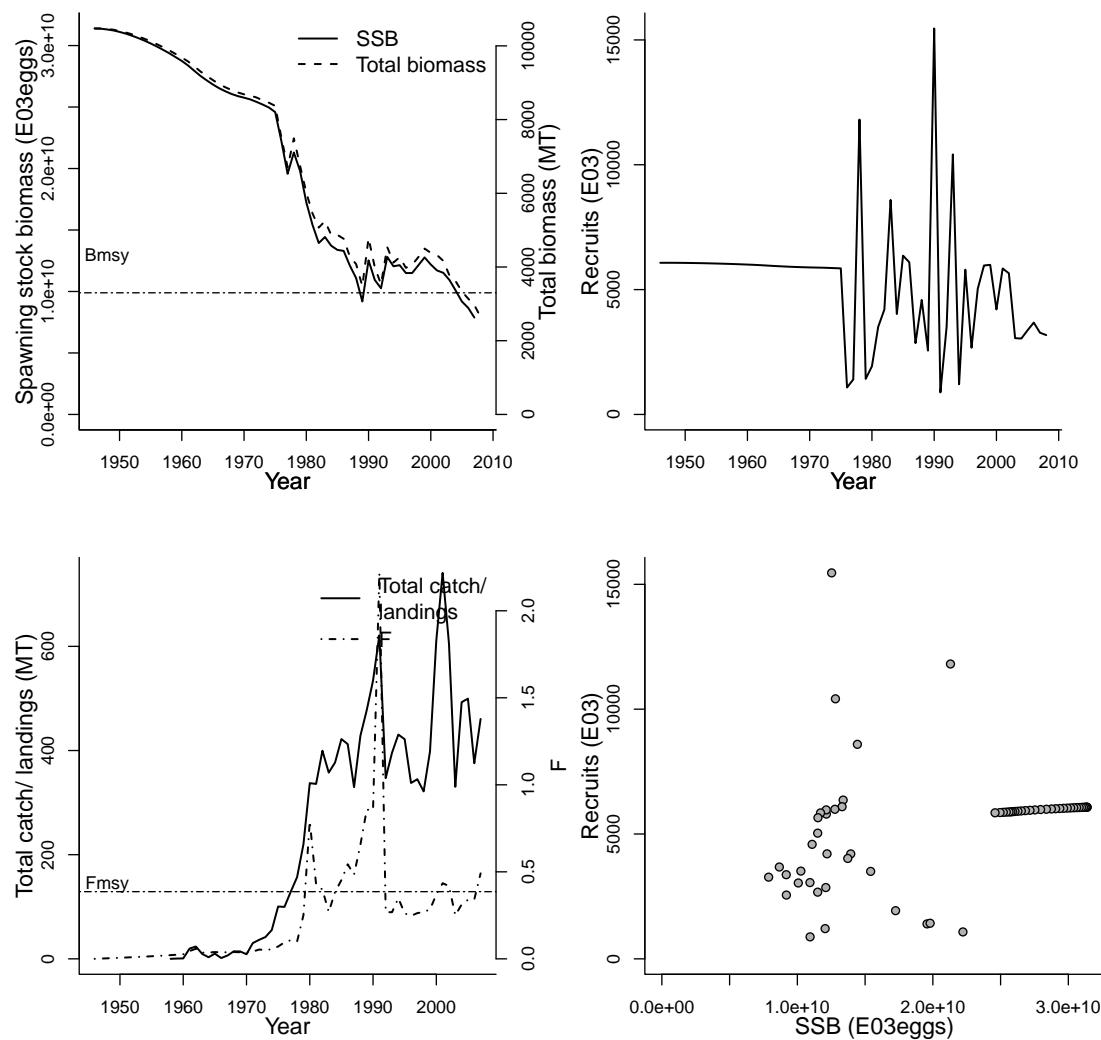
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	SEDAR 17 Stock Assessment Panel
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1946-2008
Document	2008-SEDAR-VermillionSnapper-Satl.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-06-01
Date last loaded	2010-03-05
QA/QC complete	YES
Date approved	2010-03-05

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

primary LME	secondary LME	tertiary LME
6 - Southeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	1	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	1+	yr-yr
M-1/yr	0.22	1/yr
NATMORT-1/yr	0.22	1/yr
SSB-SEX-sex		
TB-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.386	1/yr
NATMORT-1/yr (M)	0.22	1/yr
MSY-MT (TB)	755.239045631861	MT
Bmsy-MT (TB)	3300	MT
BH-h-dimless	0.56	dimless
SSBmsy-E03eggs	9160000000	E03eggs
$TB_{2008}/B_{msy}$	0.801	
$F_{2007}/F_{msy}$	1.273	
$SSB_{2007}/SSB_{msy}$	0.860	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1946	1946	1946	1946	1958
Maximum year	2007	2008	2007	2008	2007
Time series minimum	7880000000	881	0	2642	0.0879978227342829
Time series maximum	31390000000	15458.8	2.2178	10472	741.140796516375
Units	E03eggs	E03	1/yr	MT	MT



# Assessment of Southern Atlantic coast and Gulf of Mexico yellowtail snapper (*Ocyurus chrysurus*)

Assessment ID:SEFSC-YTSNAPSATLCGM-1962-2001-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/401>

Area ID: USA-NMFS-SATLCGM

## General assessment details.

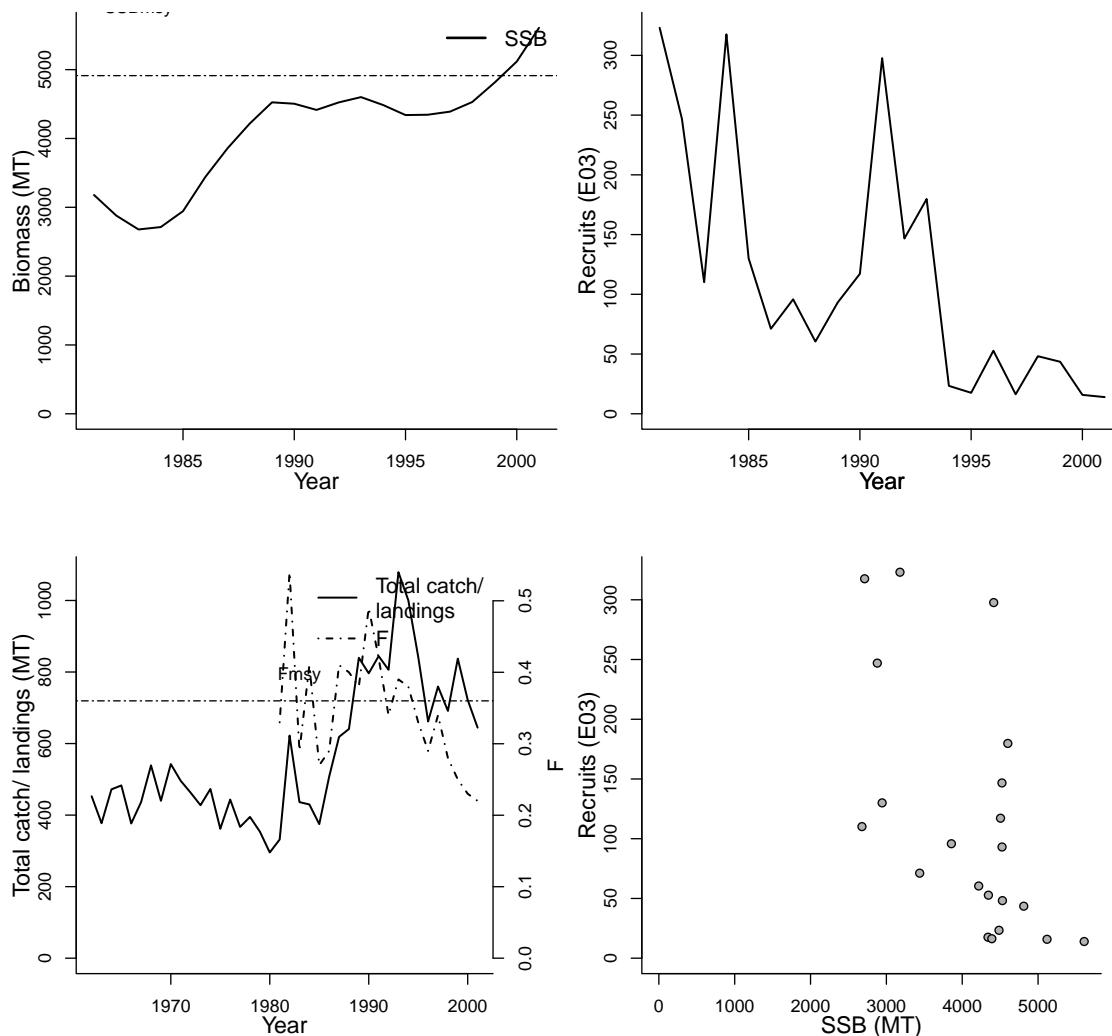
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Muller, R
Assessment method	Statistical catch-at-age model
Publication year	2003
Timeseries span	1962-2001
Document	2003_SEDAR_Yellowtailsnapper.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-06-01
Date last loaded	2010-01-19
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
6 - Southeast U.S. Continental Shelf			5 - Gulf of Mexico	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	1.7	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	Fmsy-1/yr (F)	0.36	1/yr
REC-AGE-yr	1	yr	NATMORT-1/yr (M)	0.2	1/yr
L50-cm	20.9	cm	SSBmsy-MT (SSB)	4913	MT
M-1/yr	0.2	1/yr	MSY-MT (TB)	1366	MT
NATMORT-1/yr	0.2	1/yr	BH-h-dimless	0.8	dimless
TB-AGE-yr			$F_{2001}/F_{msy}$	0.611	
F-AGE-yr			$SSB_{2001}/SSB_{msy}$	1.141	
M					
A50-yr					

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1981	1981	1981		1962
Maximum year	2001	2001	2001		2001
Time series minimum	2678	13.967	0.22		295.5
Time series maximum	5608	323.075	0.54		1079
Units	MT	E03	1/yr		MT



# Assessment of Northern Sea of Okhotsk walleye pollock (*Theragra chalcogramma*)

Assessment ID:SFI-WPOLLNSO-1985-1994-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/425>

Area ID: Russia-RFFA-NSO

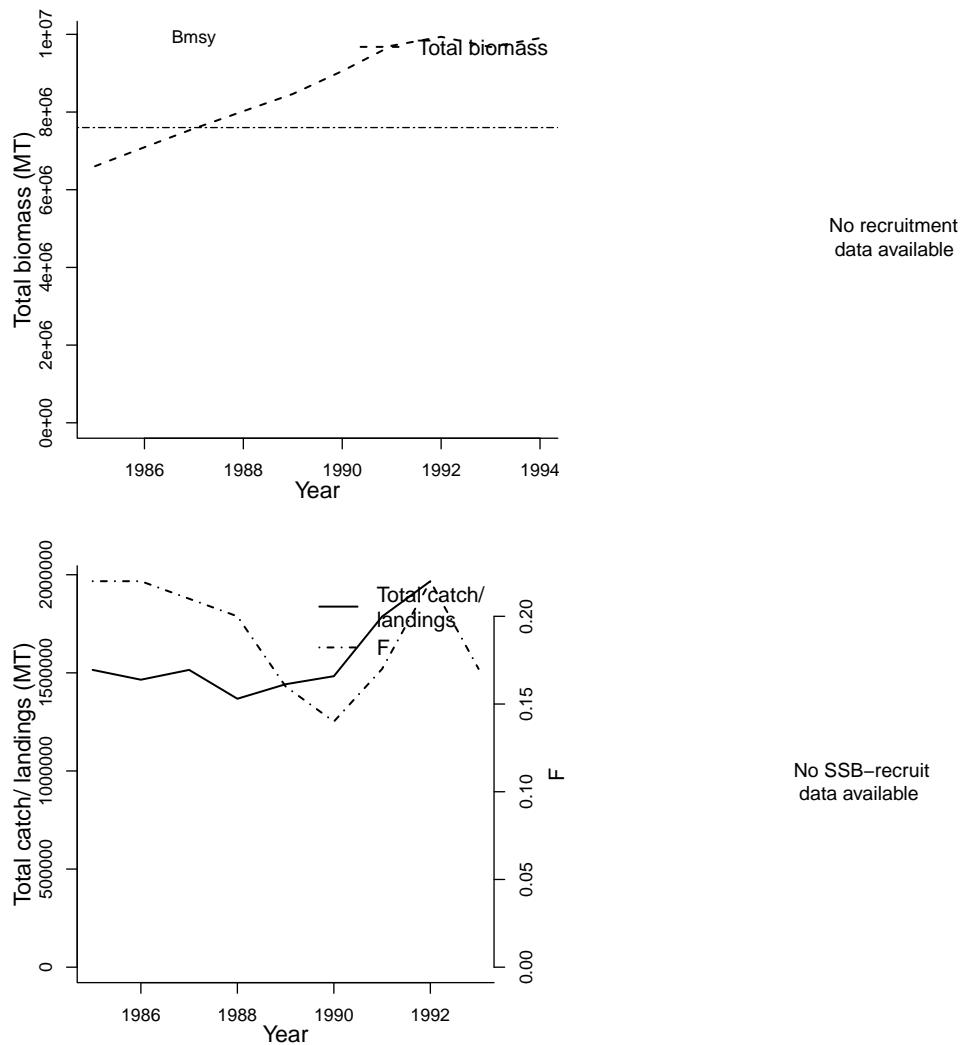
General assessment details.

Detail	Value
Management body	RFFA
Assessment group	Sea Fisheries Institute Poland
Assessment authors	Janusz, J.
Assessment method	Age-aggregated surplus production model
Publication year	1997
Timeseries span	1985-1994
Document	WPOLLNSO-1997-JENSEN.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-11-10
Date last loaded	2009-11-11
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
52 - Sea of Okhotsk			na	na	
Parameter	Value	Units	Reference points		
M-1/yr	0.2	1/yr	Parameter	Value	Units
REC-AGE			Fmsy-1/yr (F)	0.27	1/yr
SSB-AGE-yr			Bmsy-MT (TB)	7600000	MT
SSB-SEX-sex			MSY-MT (TB)	2067000	MT
TB-AGE-yr			$TB_{1994}/B_{msy}$	1.303	
F-AGE-yr			$F_{1993}/F_{msy}$	0.630	
M					
A50-yr					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1985	1985
Maximum year			1993	1994
Time series minimum	0.14			6605000
Time series maximum	0.22			9937000
Units	1/yr		MT	MT



# Assessment of South Pacific Ocean albacore tuna (*Thunnus alalunga*)

Assessment ID:SPC-ALBASPAC-1959-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/57>

Area ID: multinational-WCPFC-SPAC

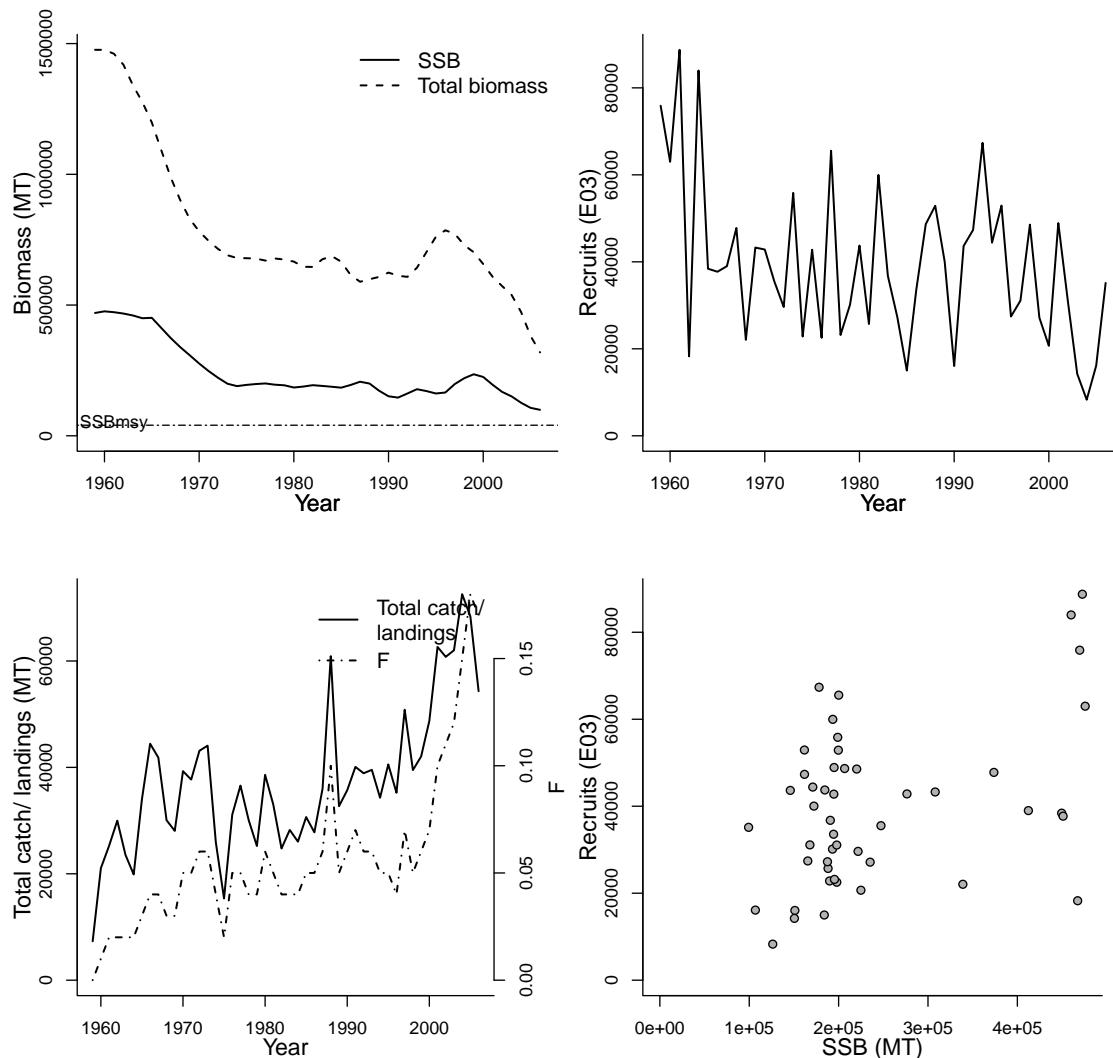
## General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Hoyle, Simon
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	2008
Timeseries span	1959-2006
Document	JENSEN_ALBWPO_2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-10-21
Date last loaded	2010-07-16
QA/QC complete	YES
Date approved	2010-05-04

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

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-SEX-sex	0	sex	Umsy-ratio (U)	1.88E-01	ratio
A50-yr	5.5	yr	MSY-MT (TB)	63,830	MT
M-1/T	AVAILABLE	1/T	SSBmsy-MT (SSB)	4.04E+04	MT
REC-AGE			B0-MT	698000	MT
SSB-AGE-yr			$SSB_{2006}/SSB_{msy}$	2.457	
TB-AGE-yr					
F-AGE-yr					
M					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1959	1959	1959	1959
Maximum year	2006	2006	2006	2006
Time series minimum	99278	8295	0	318910
Time series maximum	475880	88750	0.18	1476200
Units	MT	E03	ratio	MT



# Assessment of Western Pacific Ocean bigeye tuna (*Thunnus obesus*)

Assessment ID:SPC-BIGEYEWPO-1952-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/59>

Area ID: multinational-SPC-WPO

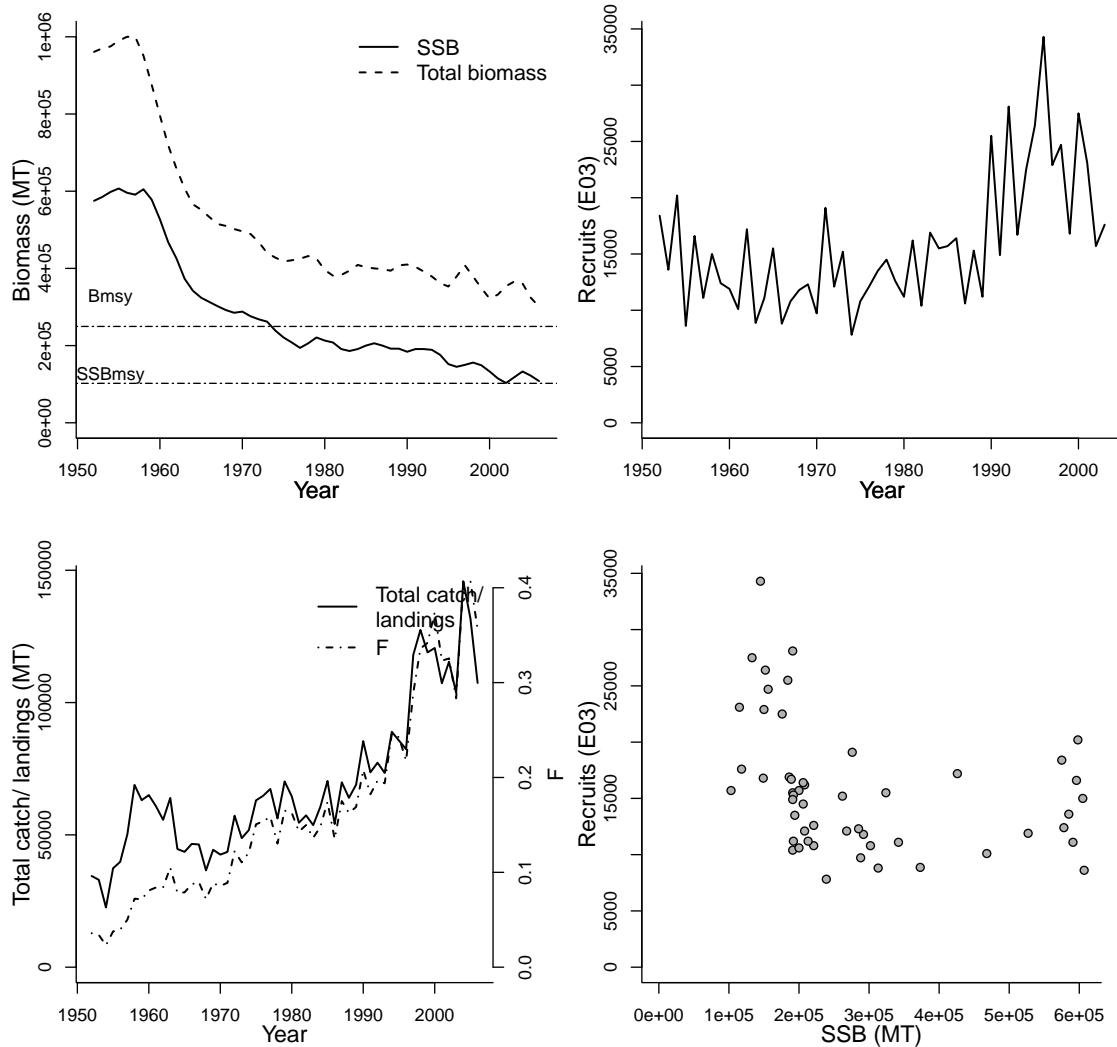
## General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Langley, Adam
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	2008
Timeseries span	1952-2006
Document	SC4-SA-WP1-rev1-bigeye-tuna.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-10-30
Date last loaded	2010-07-16
QA/QC complete	NO
Date approved	2010-05-04

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

primary LME			secondary LME			tertiary LME		
-99 - Pacific High Seas			na			na		
Parameter	Value	Units	Reference points					
SSB-SEX-sex	0	sex	Parameter	Value	Units			
A50-yr	3.6	yr	Bmsy-MT (TB)	249600	MT			
M-1/T	AVAILABLE	1/T	Umsy-ratio (U)	0.2588	ratio			
REC-AGE			MSY-MT (TB)	64,600	MT			
SSB-AGE-yr			SSBmssy-MT (SSB)	102200	MT			
TB-AGE-yr			$TB_{2006}/B_{msy}$	1.206				
F-AGE-yr			$SSB_{2006}/SSB_{msy}$	1.057				
M								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1952	1952	1952	1952
Maximum year	2006	2003	2006	2006
Time series minimum	103000	7820	0.0231	301000
Time series maximum	607000	34300	0.4069	1000000
Units	MT	E03	ratio	MT



# Assessment of Central Western Pacific skipjack tuna (*Katsuwonus pelamis*)

Assessment ID:SPC-SKJCWPAC-1972-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/15>

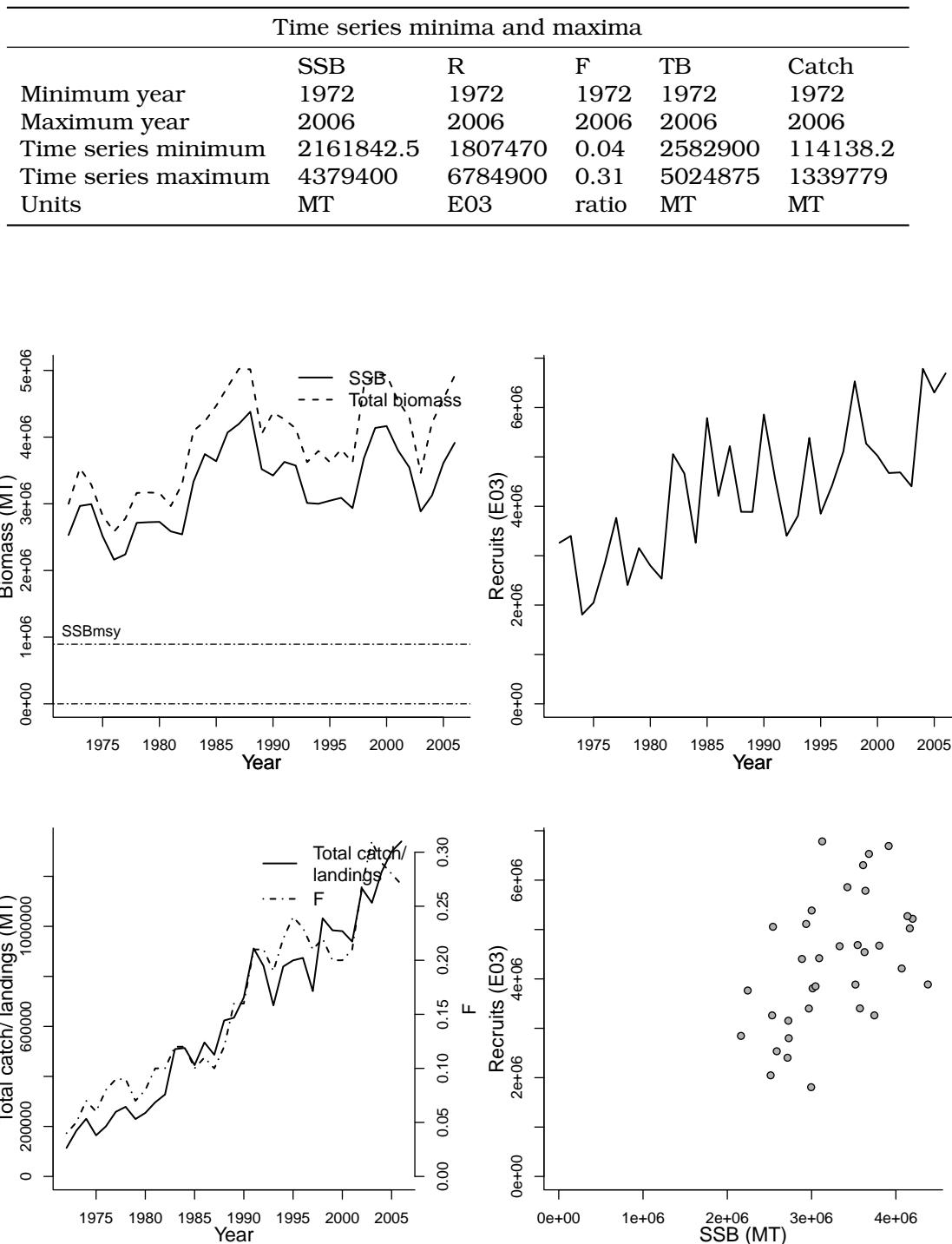
Area ID: USA-NMFS-CWPAC

General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Langley, Adam
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	2008
Timeseries span	1972-2006
Document	SC4-SA-WP4-SKJ-Assessment-rev1-skipjack.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-18
Date last loaded	2010-05-04
QA/QC complete	NO
Date approved	2010-05-04

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

Parameter	Value	Units	primary LME			secondary LME			tertiary LME		
			-99 - Pacific High Seas			na			na		
A50-yr	0.3125	yr									
M-1/T	AVAILABLE	1/T									
REC-AGE						Parameter	Reference points				
SSB-AGE-yr						Bmsy-MT (TB)	1,438,000			MT	
SSB-SEX-sex						Umsy-ratio (U)	0.8900			ratio	
TB-AGE-yr						MSY-MT (TB)	1,279,600			MT	
F-AGE-yr						SSBmssy-MT (SSB)	894200			MT	
M						$TB_{2006}/B_{msy}$	4923525.000				
L50-cm						$SSB_{2006}/SSB_{msy}$	4.378				



# Assessment of Western Pacific Ocean striped marlin (*Kajikia audax*)

Assessment ID:SPC-STMARLINSWPO-1950-2004-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/469>

Area ID: multinational-SPC-WPO

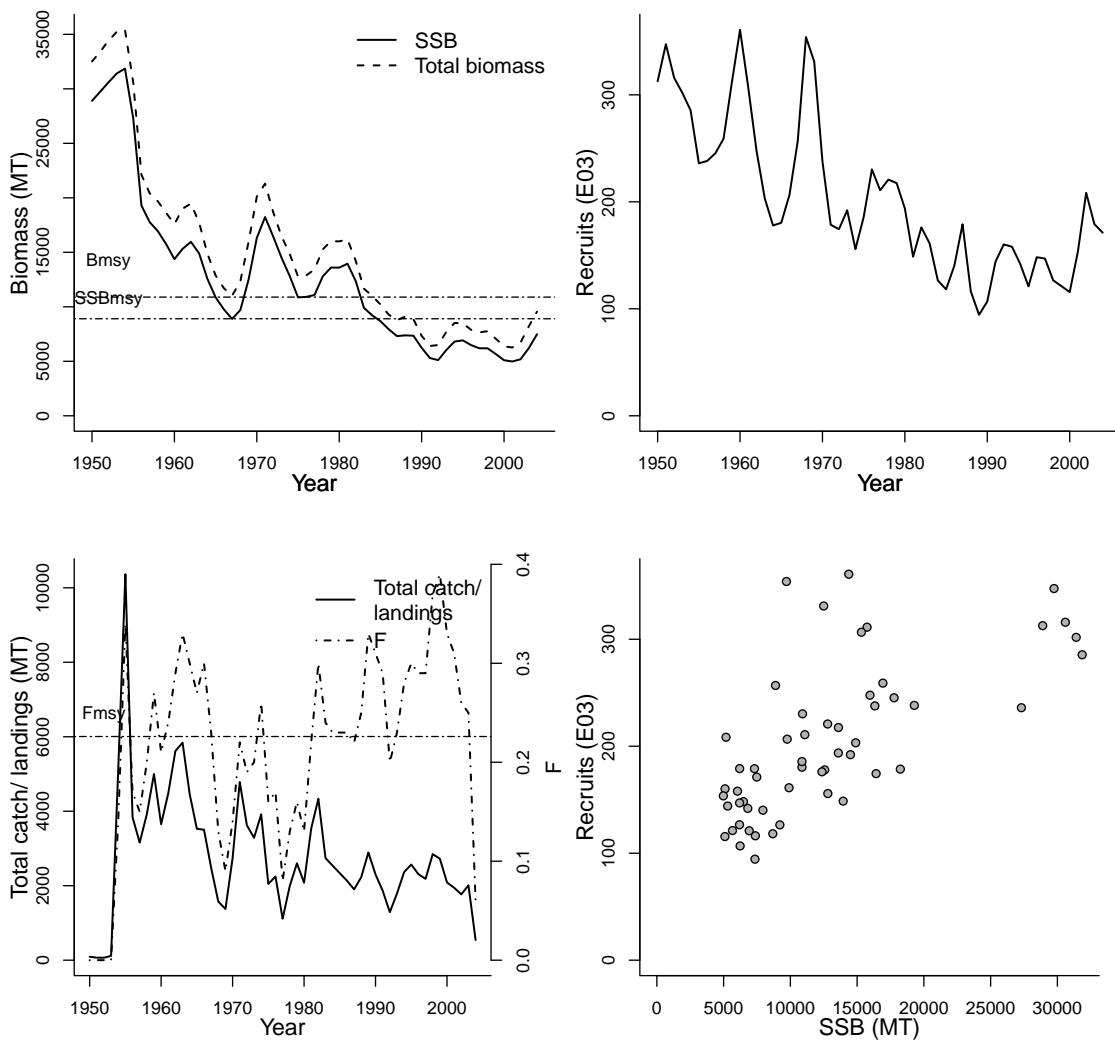
## General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Langley, Adam
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	2006
Timeseries span	1950-2004
Document	JENSEN-STMARLINSWPAC-2006.pdf (pdf in database)
Recorder	JENSEN
Date entered	2011-01-14
Date last loaded	2011-02-24
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	
-99 - Pacific High Seas			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	2	yr	Parameter	Value	Units
SSB-SEX-sex	0	sex	Fmsy-1/yr (F)	0.226	1/yr
M-1/yr	0.4	1/yr	SSBmsy-MT (SSB)	8903	MT
REC-AGE			MSY-MT (TB)	2465	MT
TB-AGE-yr			Bmsy-MT (TB)	10890	MT
F-AGE-yr			$TB_{2004}/B_{m sy}$	0.877	
M			$F_{2004}/F_{m sy}$	0.265	
A50-yr			$SSB_{2004}/SSB_{m sy}$	0.840	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1950	1950	1950	1950
Maximum year	2004	2004	2004	2004
Time series minimum	4980.8	94.41	0	6263.6
Time series maximum	31857	360.8	0.39	35417
Units	MT	E03	1/yr	MT



# Assessment of Central Western Pacific yellowfin tuna (*Thunnus albacares*)

Assessment ID:SPC-YFINCWPAC-1952-2005-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/60>

Area ID: USA-NMFS-CWPAC

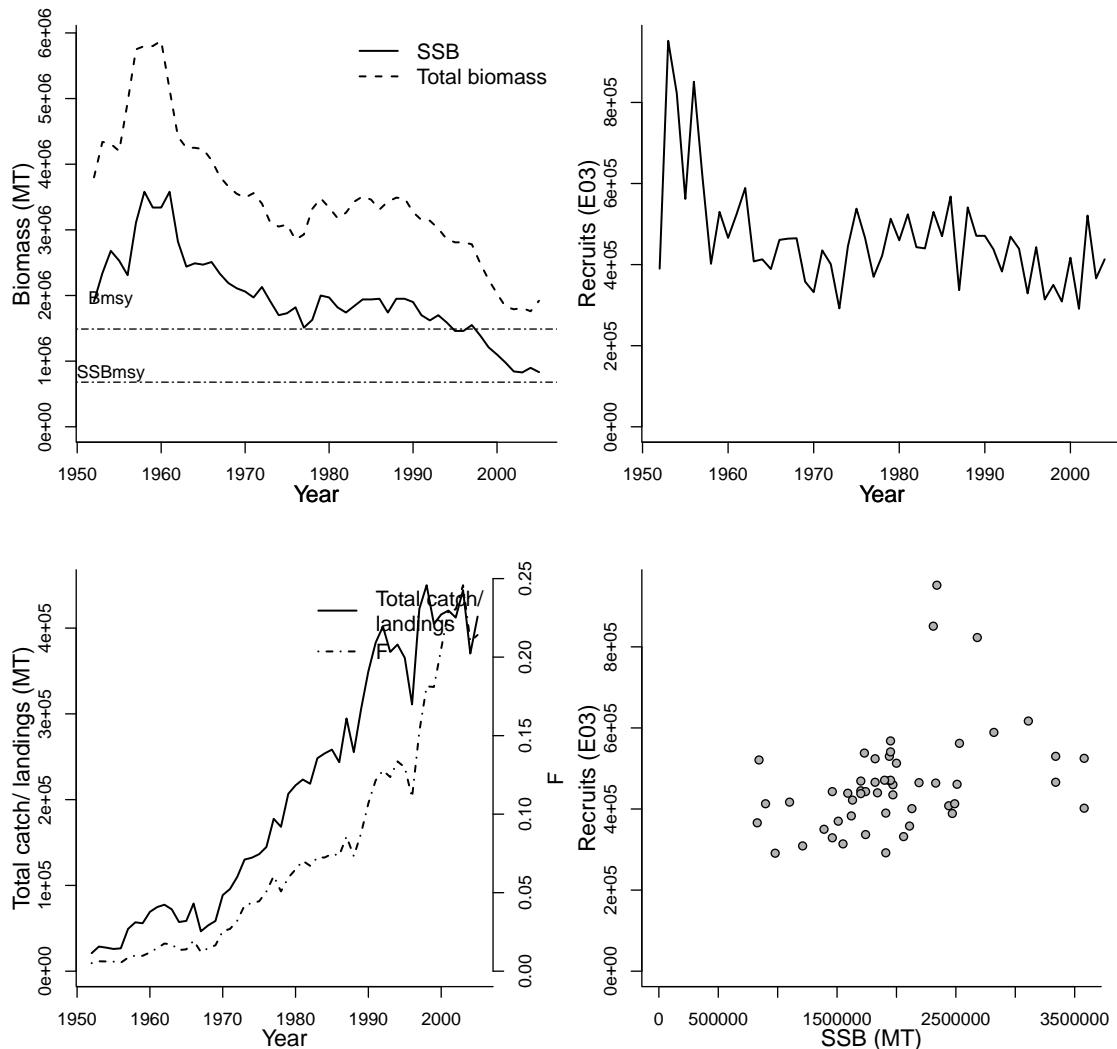
General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Langley, Adam
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	2007
Timeseries span	1952-2005
Document	WCPFC-SC3-SA-SWG-WP-01.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-18
Date last loaded	2010-05-04
QA/QC complete	YES
Date approved	2010-05-04

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

primary LME			secondary LME			tertiary LME		
-99 - Pacific High Seas			na			na		
Parameter	Value	Units	Reference points					
A50-yr	2	yr	Parameter	Value	Units			
M-1/T	AVAILABLE	1/T	Bmsy-MT (TB)	1489000	MT			
REC-AGE			Umsy-ratio (U)	0.2686	ratio			
SSB-AGE-yr			MSY-MT (TB)	400,000	MT			
SSB-SEX-sex			SSBmsy-MT (SSB)	679800	MT			
TB-AGE-yr			$TB_{2005}/B_{msy}$	1.289				
F-AGE-yr			$SSB_{2005}/SSB_{msy}$	1.224				
M								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1952	1952	1952	1952
Maximum year	2005	2004	2005	2005
Time series minimum	828000	291000	0.0051	1760000
Time series maximum	3580000	952000	0.2458	5880000
Units	MT	E03	ratio	MT



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

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

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

Area ID: multinational-SPRFMO-CH

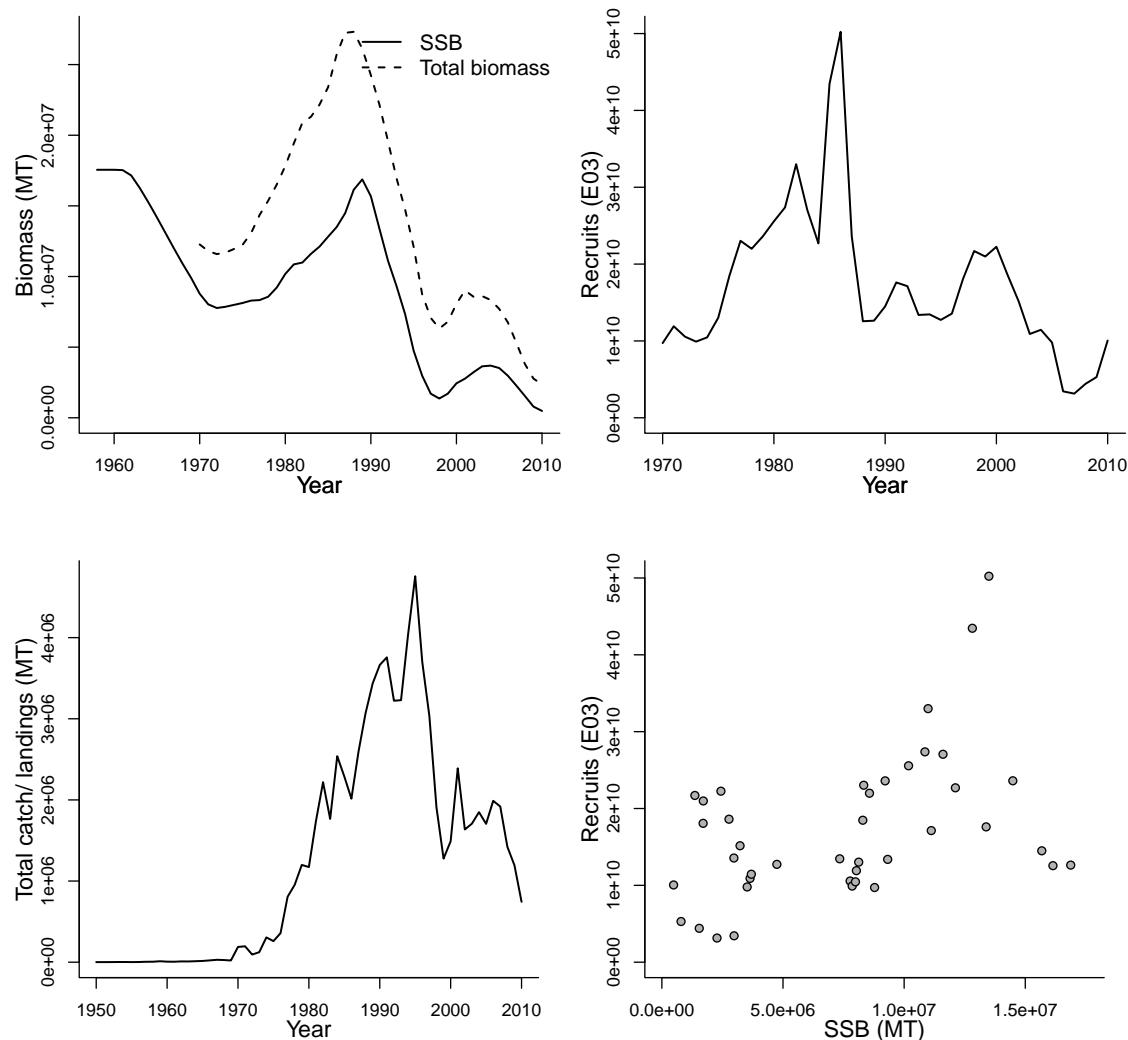
## General assessment details.

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		Reference points
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				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1958	1970		1970
Maximum year	2010	2010		2010
Time series minimum	484120	3143930000	2362660	800
Time series maximum	17554500	50229100000	27321000	4756979
Units	MT	E03	MT	MT



# Assessment of Southern California California scorpionfish (*Scorpaena guttata*)

Assessment ID: SWFSC-CALSCORPSCAL-1990-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/410>

Area ID: USA-NMFS-SCAL

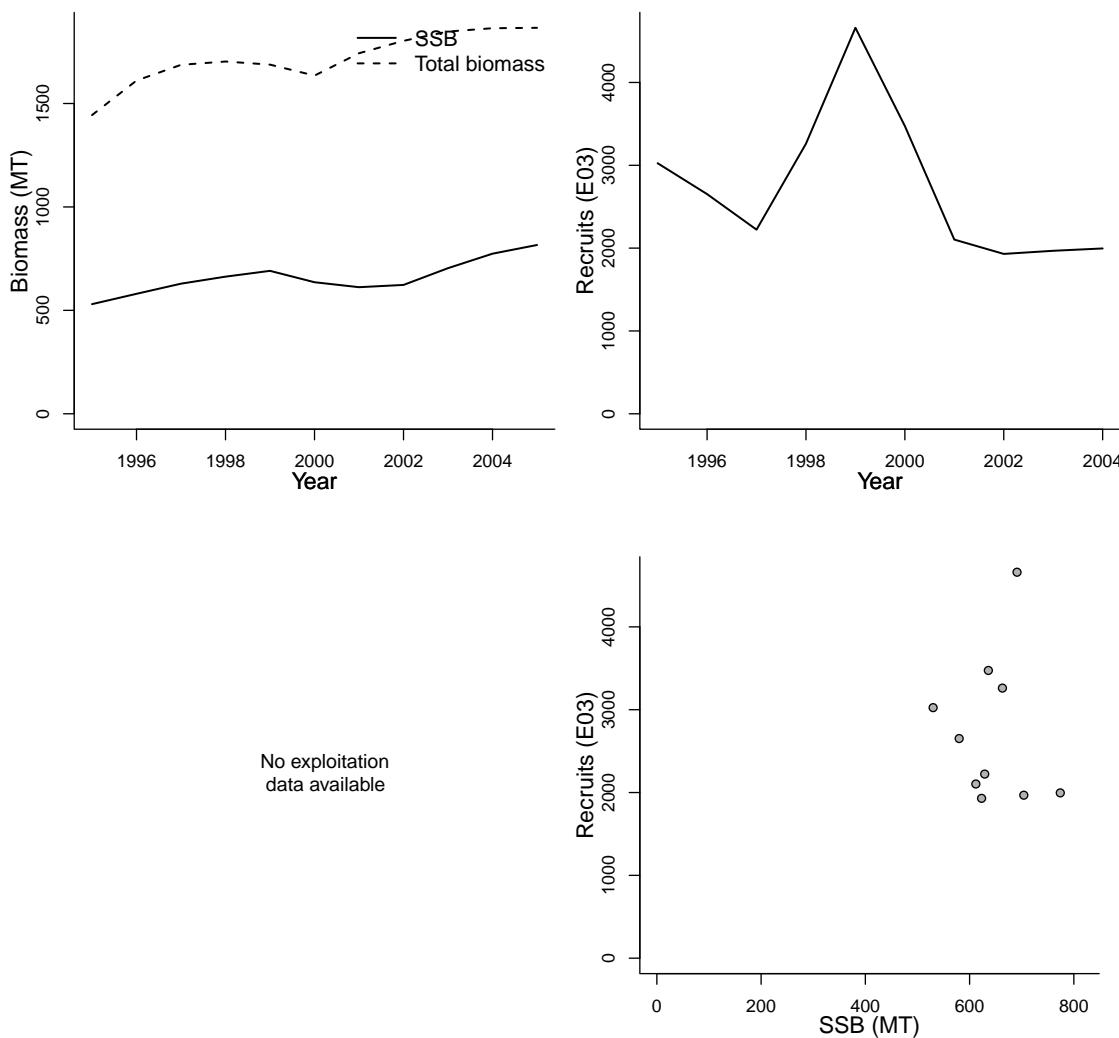
## General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southwest Fisheries Science Center
Assessment authors	Maunder, Mark
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2005
Timeseries span	1990-2005
Document	Scorpionfish_assessment_report_2005.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-08-07
Date last loaded	2009-11-03
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			
3 - California Current			na	na				
Parameter	Value	Units	Reference points					
SSB-AGE-yr	2	yr	Parameter	Value	Units			
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.25	1/yr			
REC-AGE-yr	0	yr	MSY-MT (TB)	127	MT			
TB-AGE-yr	2+	yr	SSBO-MT (SSB)	1024	MT			
M-1/yr	0.25	1/yr	B0-MT	2007	MT			
NATMORT-1/yr	0.25	1/yr	BH-h-dimless	0.7	dimless			
F-AGE-yr								
M								
A50-yr								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1995	1995		1995	
Maximum year	2005	2004		2005	
Time series minimum	530	1930		1444	
Time series maximum	816	4660		1866	
Units	MT	E03		MT	



# Assessment of Pacific Coast pacific chub mackerel (*Scomber japonicus*)

Assessment ID: SWFSC-CMACKPCOAST-1929-2008-PINSKY

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/406>

Area ID: USA-NMFS-PCOAST

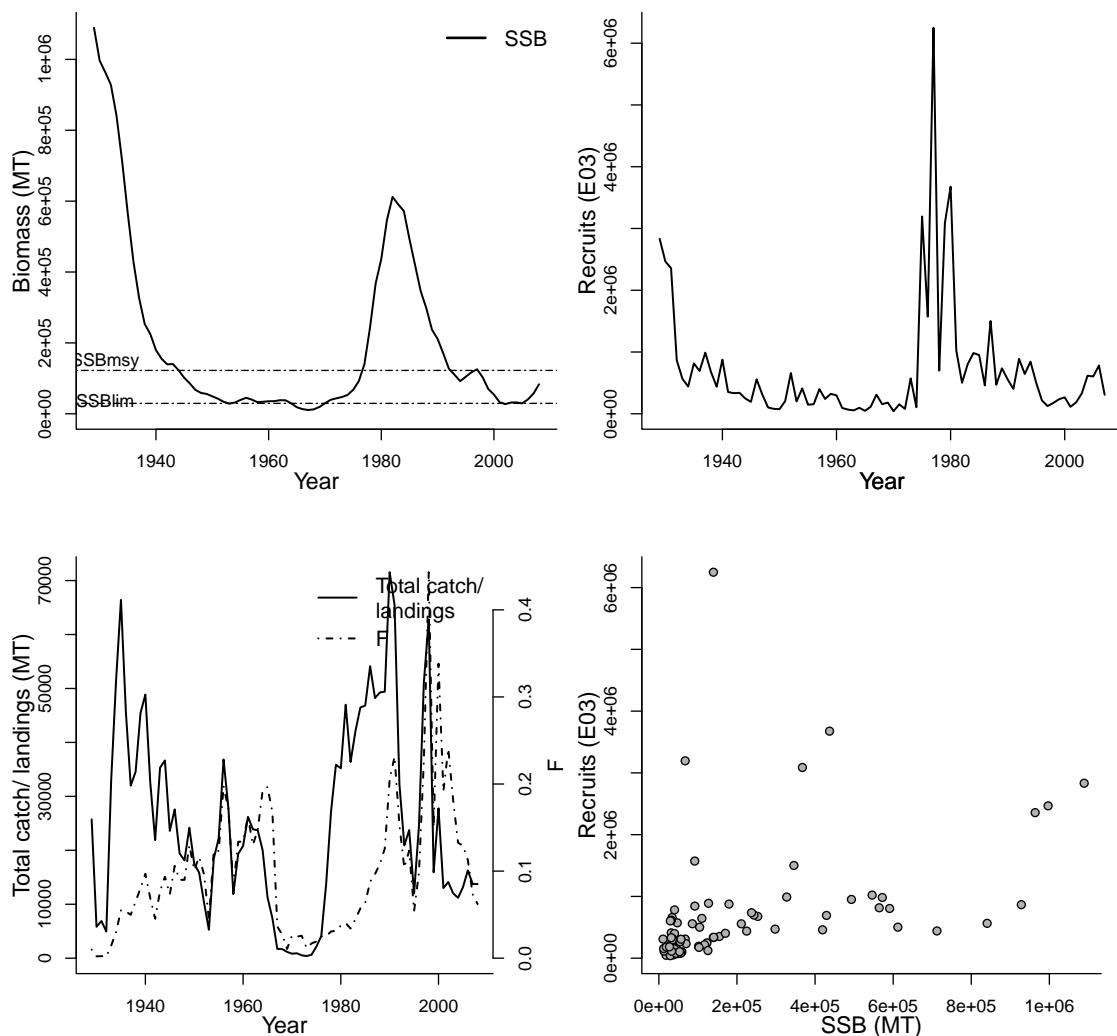
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southwest Fisheries Science Center
Assessment authors	Dorval,Emmanis
Assessment method	Age Structured Assessment Program
Publication year	2008
Timeseries span	1929-2008
Document	PFMC_2008_CPS_SAFE_App2_PMackerel.pdf (pdf in database)
Recorder	PINSKY
Date entered	2009-03-27
Date last loaded	2010-04-13
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
3 - California Current			na	na	
Parameter	Value	Units	Parameter	Reference points	
SSB-AGE-yr	3+	yr	NATMORT-1/yr (M)	0.5	1/yr
REC-AGE-yr	0	yr	MSY-MT (TB)	51772	MT
TB-AGE-yr	1+	yr	SSBlim-MT (SSB)	29420	MT
M-1/yr	0.5	1/yr	MSY-MT (TB)	23048.2	MT
NATMORT-1/yr	0.5	1/yr	SSBmsy-MT (SSB)	122357	MT
SSB-SEX-sex			SSB0-MT (SSB)	182791	MT
F-AGE-yr			BH-h-dimless	0.315471	dimless
M			SSB <sub>2008</sub> /SSB <sub>lim</sub>	2.827	
A50-yr			SSB <sub>2008</sub> /SSB <sub>msy</sub>	0.680	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1929	1929	1929	1929
Maximum year	2008	2007	2008	2008
Time series minimum	10701.7	40830.5	0.0017804	400.94
Time series maximum	1089110	6249070	0.443214	71550.6
Units	MT	E03	1/T	MT



# Assessment of Pacific Coast Dover sole

## *(Microstomus pacificus)*

Assessment ID: SWFSC-DSOLEPCOAST-1910-2005-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/333>

Area ID: USA-NMFS-PCOAST

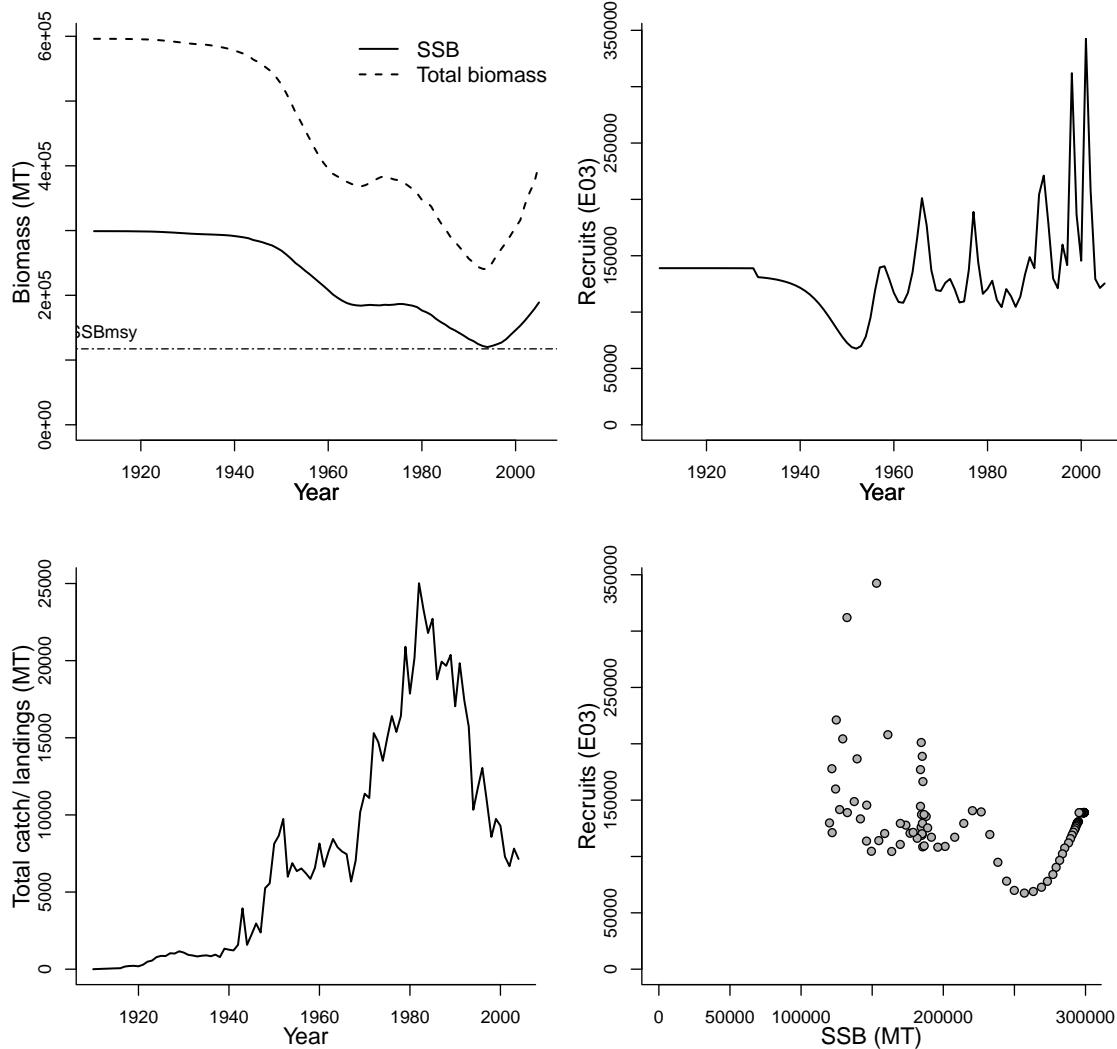
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southwest Fisheries Science Center
Assessment authors	Sampson, David
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1910-2005
Document	2005-SAFE-WCdover.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-18
Date last loaded	2010-02-10
QA/QC complete	YES
Date approved	2010-02-10

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

primary LME			secondary LME		tertiary LME
3 - California Current			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	5+	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.09	1/yr
REC-AGE-yr	0	yr	SPRF0-E01 (SPR)	2.15	E01
F-AGE-yr-yr	5+	yr-yr	SSBmsy-MT (SSB)	117281	MT
TB-AGE-yr	5+	yr	MSY-MT (TB)	16505	MT
L50-cm	33.4	cm	SSB0-MT (SSB)	299054	MT
M-1/yr	0.09	1/yr	BH-h-dimless	0.8	dimless
NATMORT-1/yr	0.09	1/yr	$SSB_{2005}/SSB_{msy}$	1.611	
M					
A50-yr					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1910	1910		1910
Maximum year	2005	2005		2005
Time series minimum	119986	67532.4	240148	0
Time series maximum	299054	342481	596145	25019.3
Units	MT	E03	MT	MT



# Assessment of Southern Pacific Coast gopher rockfish (*Sebastodes carnatus*)

Assessment ID: SWFSC-GOPHERSPCOAST-1965-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/339>

Area ID: USA-NMFS-SPCOAST

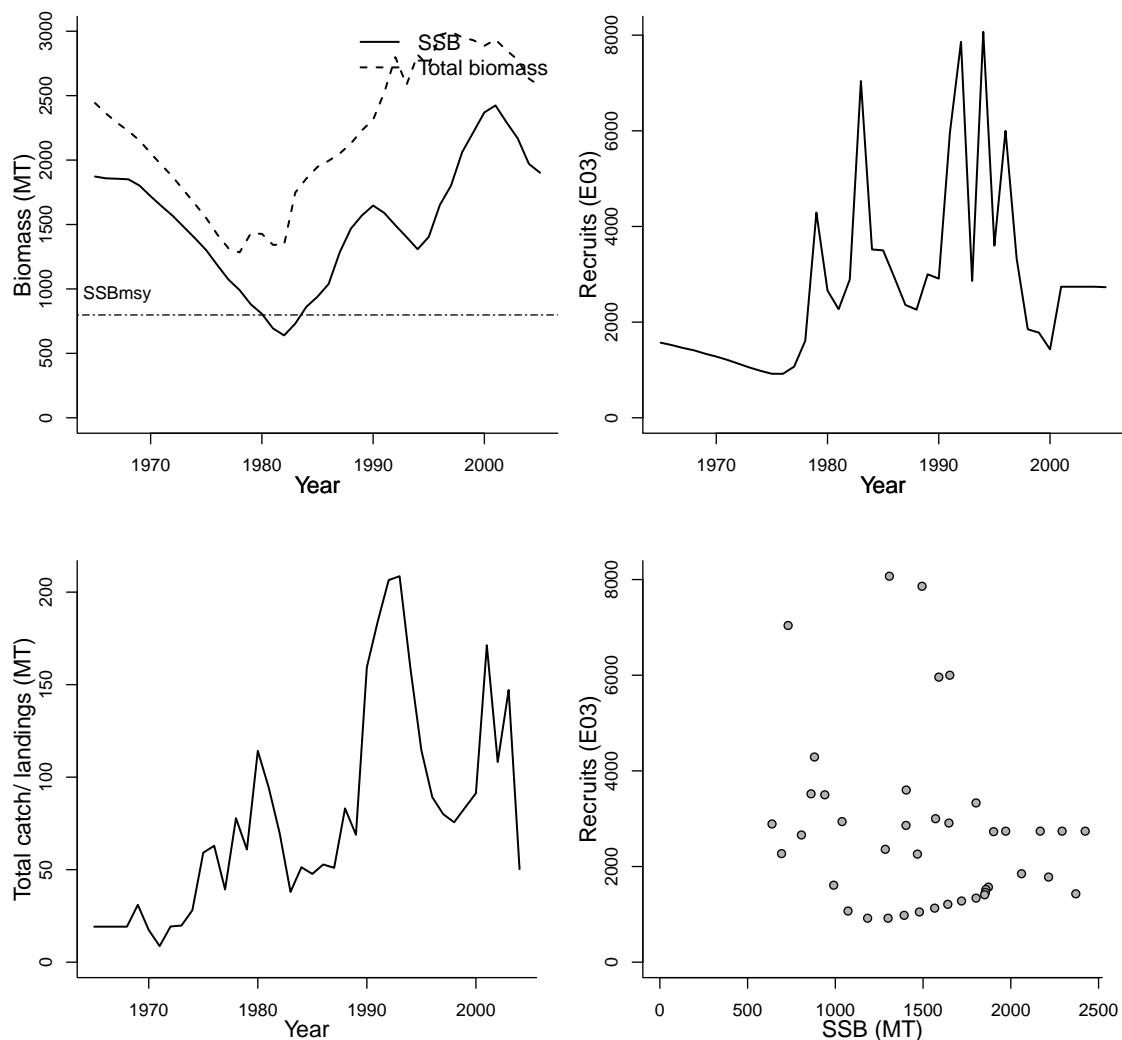
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southwest Fisheries Science Center
Assessment authors	Key, Meisha
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1965-2005
Document	2005-SAFE-Wcogopher.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-20
Date last loaded	2010-05-17
QA/QC complete	YES
Date approved	2010-02-10

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

primary LME			secondary LME		tertiary LME
3 - California Current			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	3+	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.2	1/yr
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	798	MT
F-AGE-yr-yr	1+	yr-yr	MSY-MT (TB)	101	MT
TB-AGE-yr	1+	yr	Umsy-ratio (U)	0.103	ratio
M-1/yr	0.2	1/yr	SSB0-MT (SSB)	1995	MT
NATMORT-1/yr	0.2	1/yr	B0-MT	2440	MT
M			BH-h-dimless	0.65	dimless
A50-yr			SSB <sub>2005</sub> /SSB <sub>msy</sub>	2.383	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1965	1965	1965	1965
Maximum year	2005	2005	2005	2004
Time series minimum	639.2	920	1283.3	8.7
Time series maximum	2423.8	8070	2995.5	208.6
Units	MT	E03	MT	MT



# Assessment of Pacific Coast pacific sardine (*Sardinops sagax*)

Assessment ID: SWFSC-SARDPCOAST-1981-2007-PINSKY

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/407>

Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southwest Fisheries Science Center
Assessment authors	Hill, Kevin T.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1981-2007
Document	NOAA-TM-NMFS-SWFSC-413.pdf (pdf in database)
Recorder	PINSKY
Date entered	2009-03-27
Date last loaded	2009-11-04
QA/QC complete	NO
Date approved	

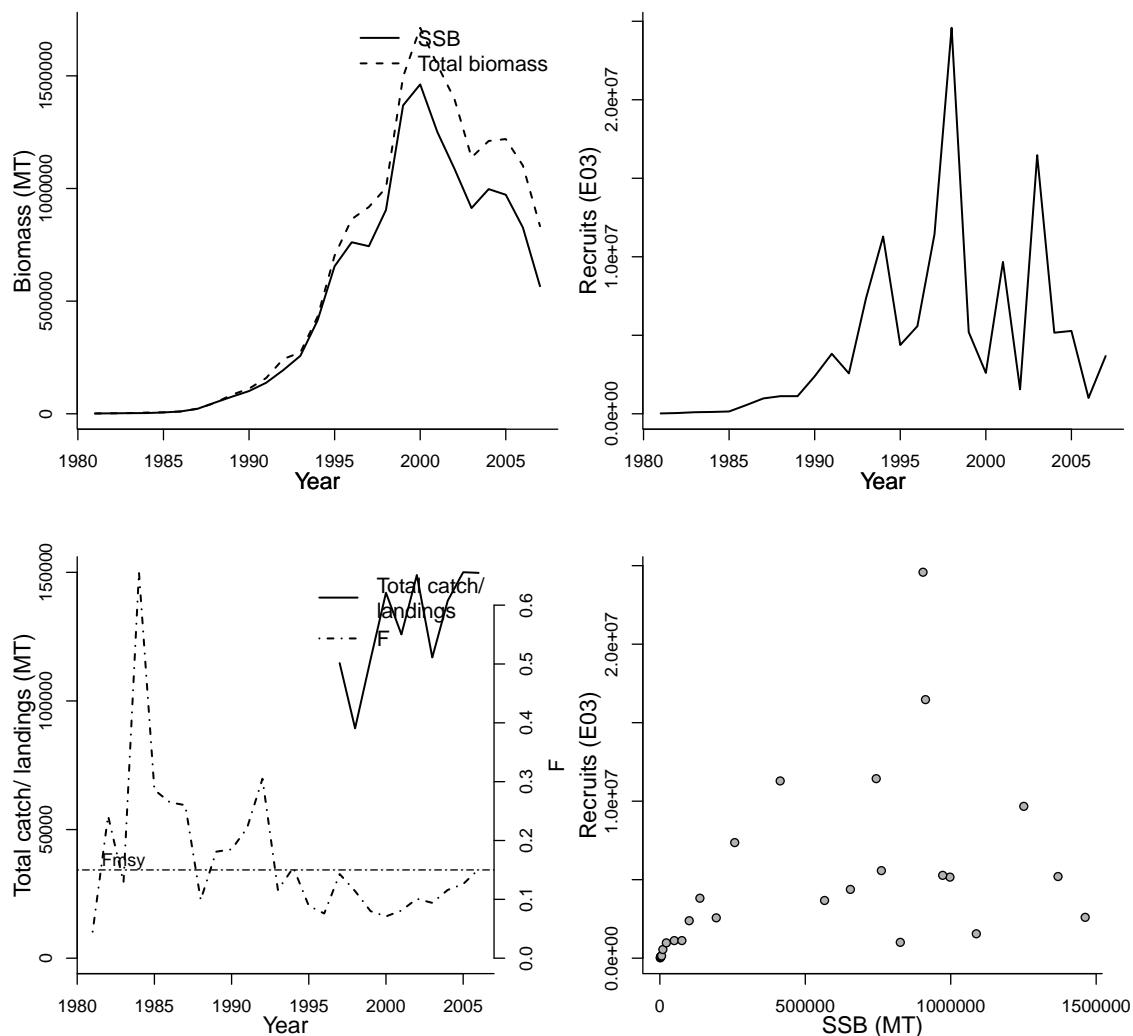
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME		secondary LME		tertiary LME
3 - California Current		na		na
Parameter	Value	Units		
SSB-SEX-sex	NA	sex		
REC-AGE-yr	0	yr		
TB-AGE-yr	1+	yr		
L50-cm	15.75	cm		
M-1/yr	0.4	1/yr		
SSB-AGE-yr				
F-AGE-yr				
M				
A50-yr				

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.15	1/yr
$F_{2006}/F_{msy}$	1.007	

Time series minima and maxima				
	SSB	R	F	Catch
Minimum year	1981	1981	1981	1997
Maximum year	2007	2007	2006	2006
Time series minimum	1353	22000	0.045	1404
Time series maximum	1462200	24583000	0.656	1713280
Units	MT	E03	ratio	MT



# Assessment of Pacific Coast shortbelly rockfish (*Sebastodes jordani*)

Assessment ID: SWFSC-SBELLYROCKPCOAST-1950-2005-BRANCH  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/66>

Area ID: USA-NMFS-PCOAST

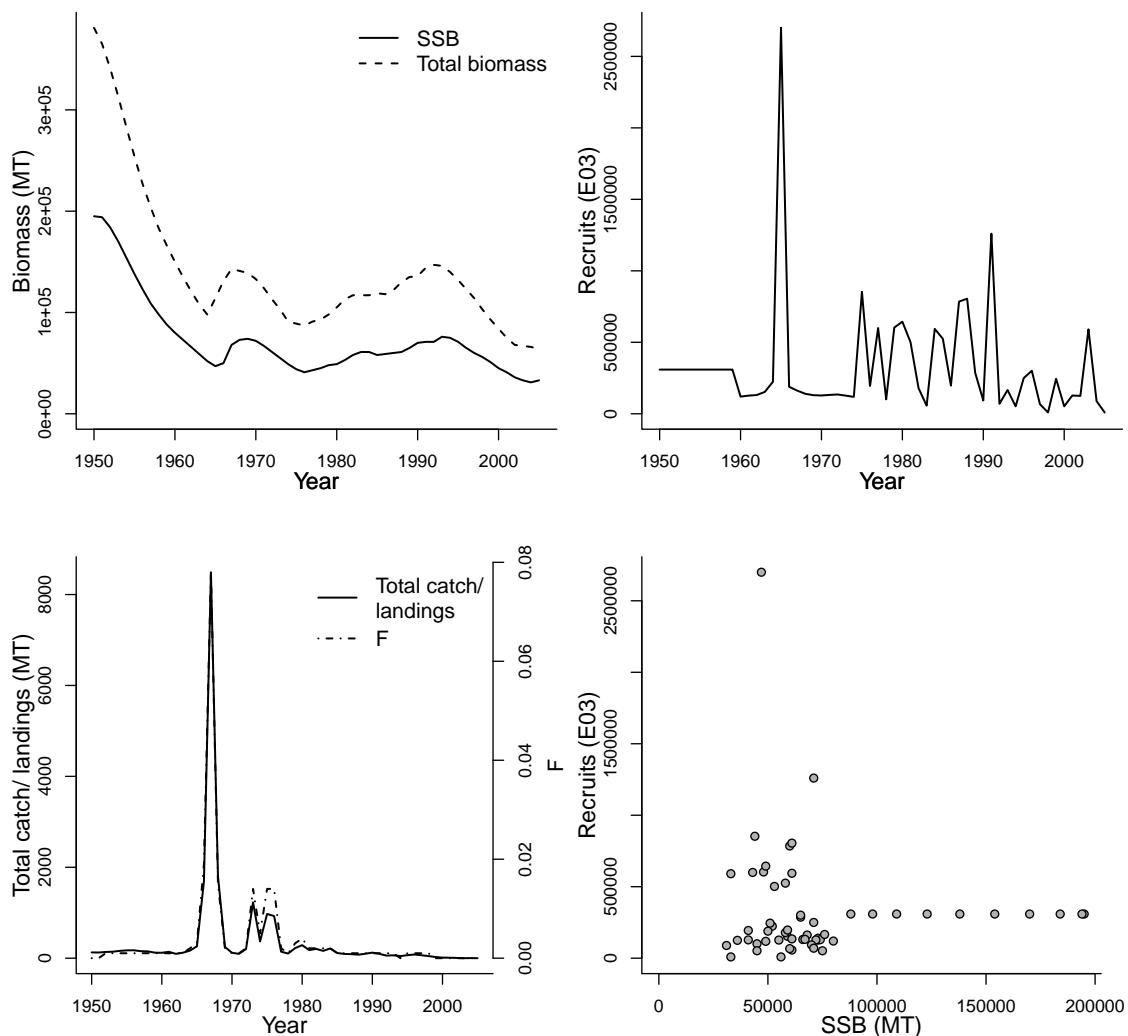
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southwest Fisheries Science Center
Assessment authors	Field JC
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1950-2005
Document	SWFSC-SBELLYROCKPCOAST-2007-Shortbelly rockfish.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-24
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		
3 - California Current			na			na		
Parameter	Value	Units	Reference points					
SSB-SEX-sex	1	sex	Parameter	Value	Units			
REC-AGE-yr	0	yr	RO-E03 (R )	309.248	E03			
F-AGE-yr-yr	1+	yr-yr	SSB0-MT (SSB)	49500	MT			
TB-AGE-yr	1+	yr	B0-MT	98400	MT			
M-1/yr	0.26	1/yr	BH-h-dimless	0.65	dimless			
A50-yr	2	yr						
L50-cm	14	cm						
SSB-AGE-yr								
M								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1950	1950	1950	1950
Maximum year	2005	2005	2005	2005
Time series minimum	31000	9000	0	64000
Time series maximum	195000	2700000	0.078	381000
Units	MT	E03	1/yr	MT



# Assessment of Northern Pacific Coast starry flounder (*Platichthys stellatus*)

Assessment ID: SWFSC-STFLOUNNPCOAST-1970-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/344>

Area ID: USA-NMFS-NPCOAST

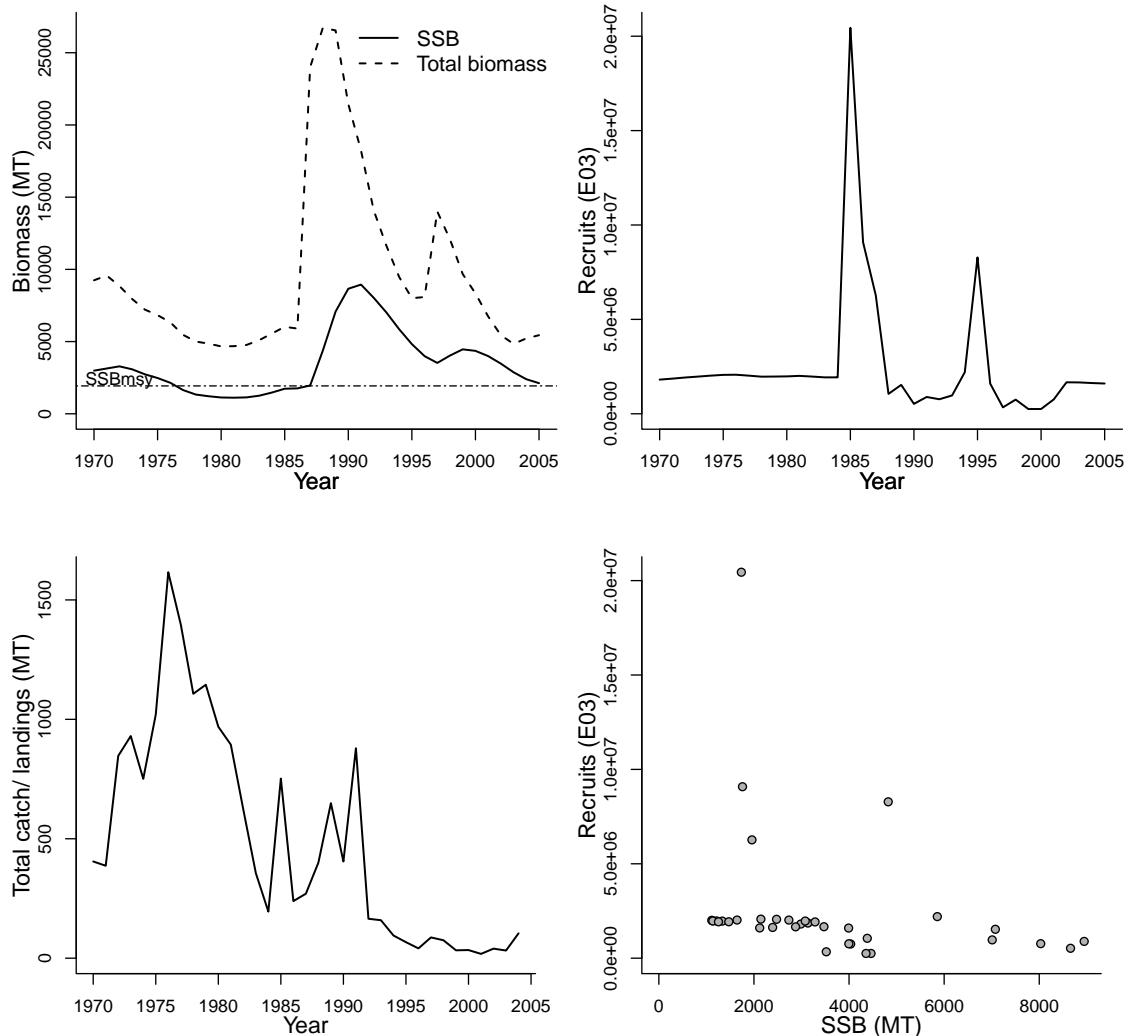
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southwest Fisheries Science Center
Assessment authors	Ralston, Stephen
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1970-2005
Document	2005-SAFE-WCstarryflounder.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-04-07
Date last loaded	2011-03-02
QA/QC complete	YES
Date approved	2010-02-10

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

primary LME			secondary LME		tertiary LME
3 - California Current			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	3+	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	NATMORT-1/yr (M)	0.3	1/yr
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	1930	MT
F-AGE-yr-yr	2+	yr-yr	MSY-MT (TB)	818	MT
TB-AGE-yr	2+	yr	Umsy-ratio (U)	0.169	ratio
M-1/yr	0.3	1/yr	SSB0-MT (SSB)	4824	MT
NATMORT-1/yr	0.3	1/yr	B0-MT	12102	MT
M			BH-h-dimless	0.8	dimless
A50-yr			SSB <sub>2005</sub> /SSB <sub>msy</sub>	1.099	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1970		1970	1970
Maximum year	2005	2005		2005	2004
Time series minimum	1113	251000		4667	18
Time series maximum	8945	20445000		26727	1616
Units	MT	E03		MT	MT



# Assessment of Southern Pacific Coast starry flounder (*Platichthys stellatus*)

Assessment ID: SWFSC-STFLOUNSPCOAST-1970-2005-STANTON

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/343>

Area ID: USA-NMFS-SPCOAST

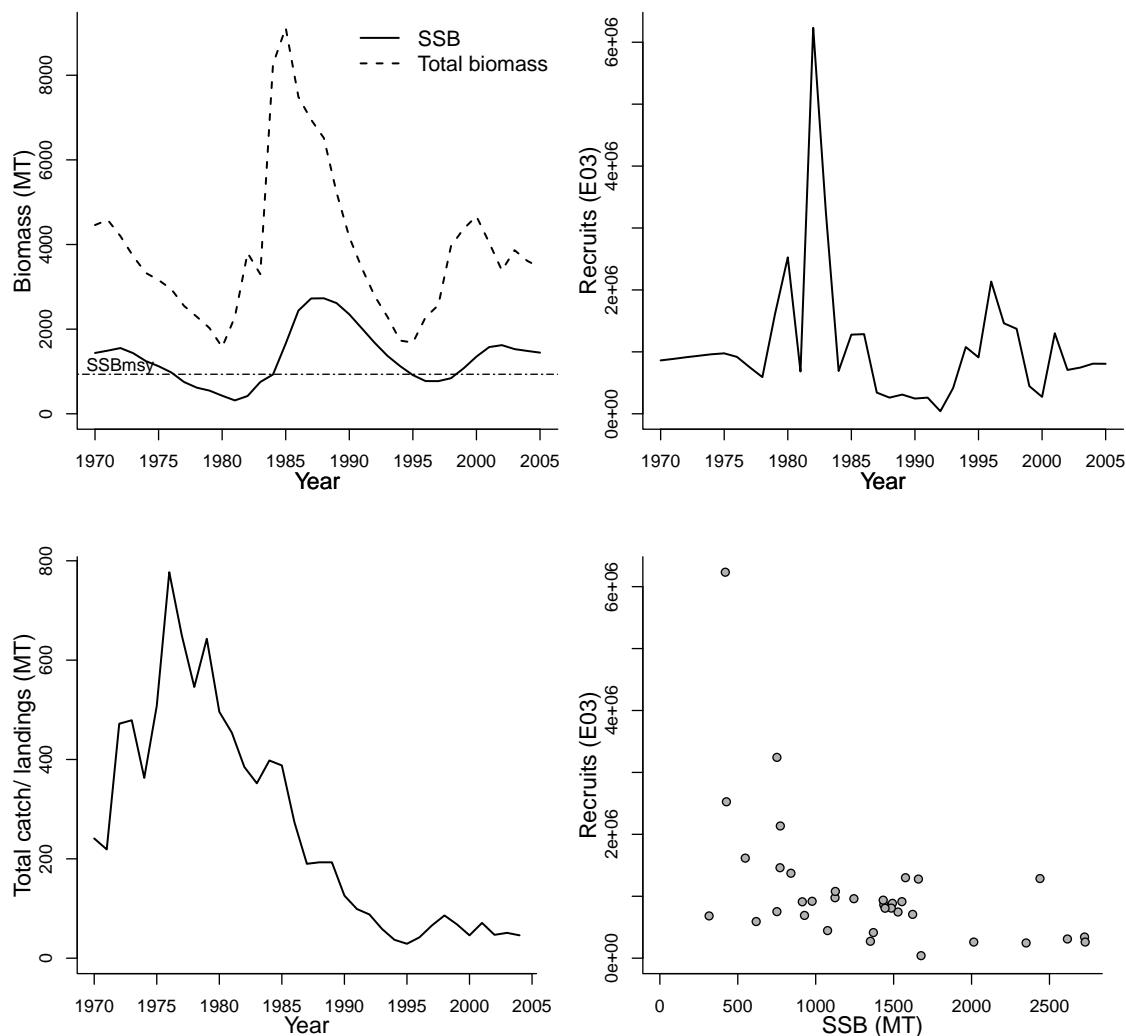
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southwest Fisheries Science Center
Assessment authors	Ralston, Stephen
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1970-2005
Document	2005-SAFE-WCstarryflounder.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-04-07
Date last loaded	2011-03-02
QA/QC complete	YES
Date approved	2010-02-10

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

primary LME			secondary LME		tertiary LME
3 - California Current			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	3+	yr	Parameter	Value	Units
SSB-SEX-sex	1	sex	BH-h-dimless	0.8	dimless
REC-AGE-yr	0	yr	NATMORT-1/yr (M)	0.3	1/yr
F-AGE-yr-yr	2+	yr-yr	SSBmsy-MT (SSB)	934	MT
TB-AGE-yr	2+	yr	MSY-MT (TB)	396	MT
M-1/yr	0.3	1/yr	Umsy-ratio (U)	0.169	ratio
NATMORT-1/yr	0.3	1/yr	SSB0-MT (SSB)	2334	MT
M			B0-MT	5854	MT
A50-yr			SSB <sub>2005</sub> /SSB <sub>msy</sub>	1.547	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1970		1970	1970
Maximum year	2005	2005		2005	2004
Time series minimum	316	41000		1574	29
Time series maximum	2729	6233000		9121	777
Units	MT	E03		MT	MT



# Assessment of Tasmania tasmanian giant crab (*Pseudocarcinus gigas*)

Assessment ID:TAFI-TASGIANTCRABTAS-1990-2007-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/86>

Area ID: Australia-AFMA-TAS

## General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Tasmanian Aquaculture and Fisheries Institute
Assessment authors	Phillippe Ziegler
Assessment method	Size-based model
Publication year	2008
Timeseries span	1990-2007
Document	JENSEN_TASGIANTCRAB_2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-29
Date last loaded	2010-06-14
QA/QC complete	NO
Date approved	

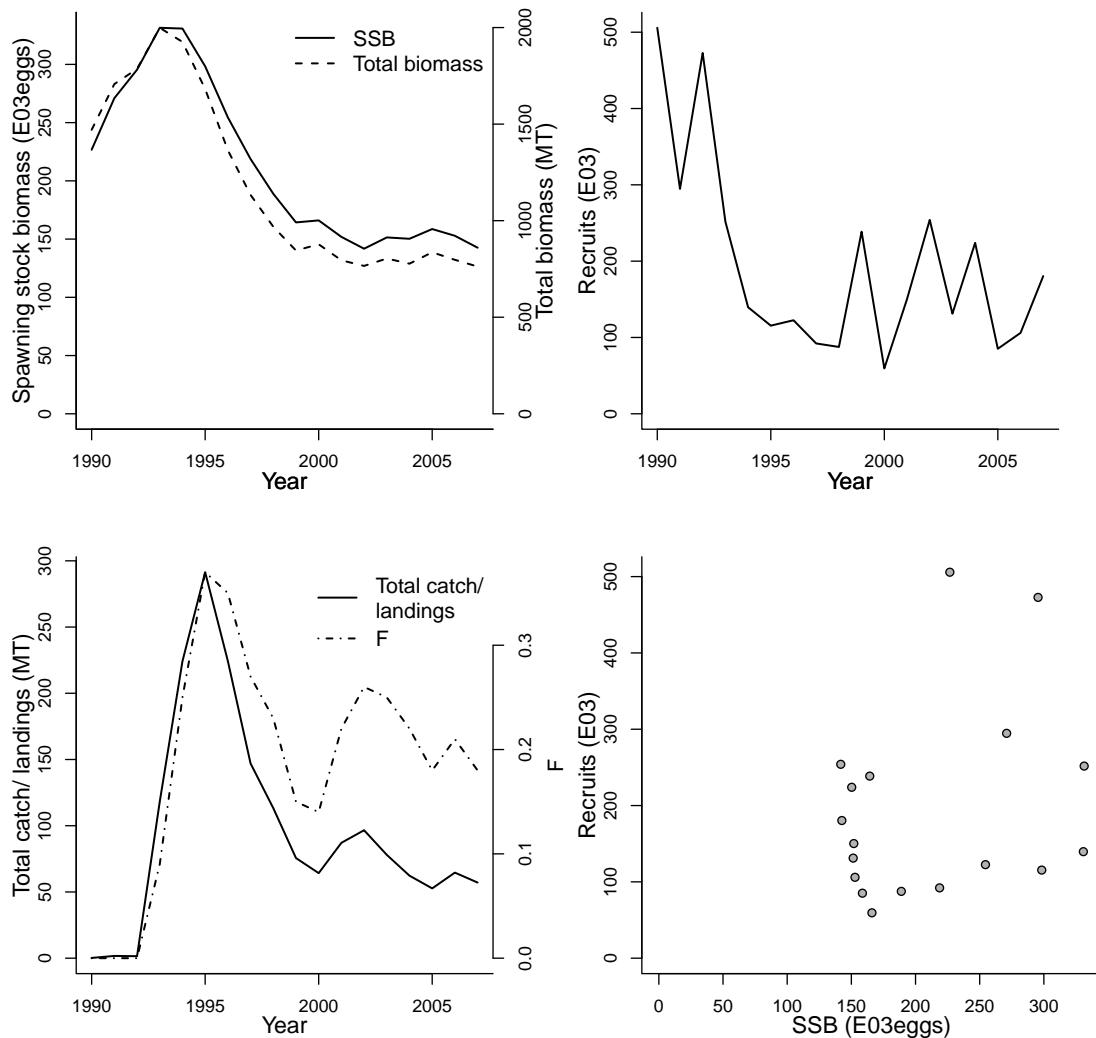
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
42 - Southeast Australian Shelf	na	na
<hr/>		
Parameter	Value	Units
REC-AGE		
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
Minimum year	1990	1990	1990	1990
Maximum year	2007	2007	2007	2007
Time series minimum	141.7377	59.4615	0	762.33
Time series maximum	331.42152	505.763	0.37	1998.76
Units	E03eggs	E03	ratio	MT
				MT



# Assessment of Western Bering Sea walleye pollock (*Theragra chalcogramma*)

Assessment ID: VNIRO-WPOLLWBS-1994-2004-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/426>

Area ID: Russia-RFFA-WBS

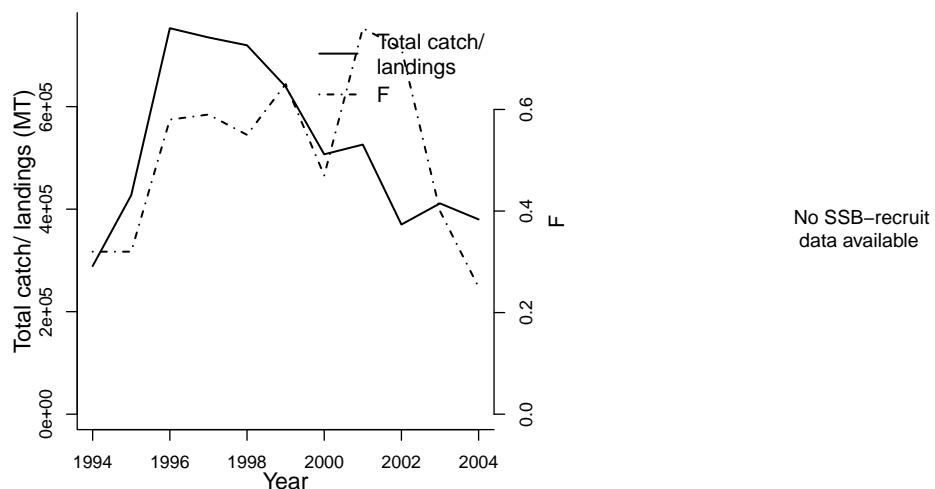
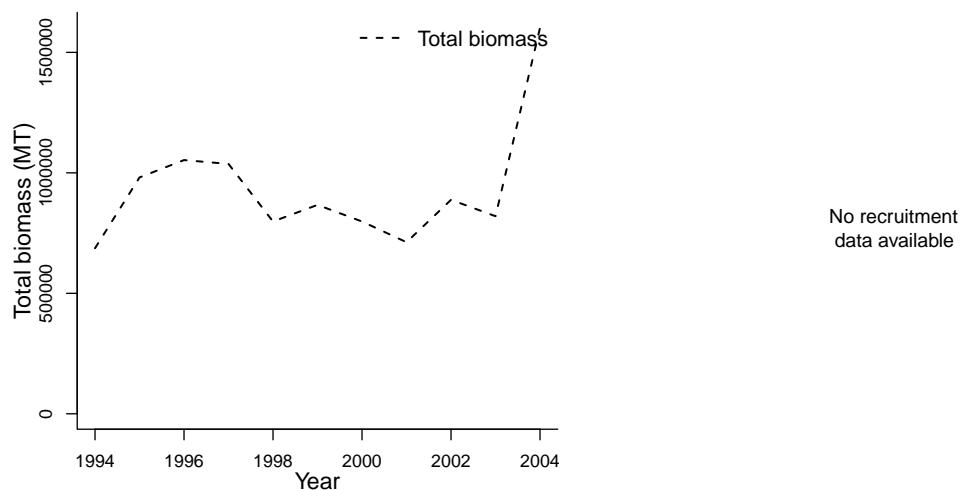
General assessment details.

Detail	Value
Management body	RFFA
Assessment group	Russian Federal Research Institute of Fisheries and Oceanography
Assessment authors	Vasilyev, D.A.
Assessment method	Instantaneous Separable VPA
Publication year	2004
Timeseries span	1994-2004
Document	WPOLLWBS-2004-JENSEN.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-11-11
Date last loaded	2009-11-11
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	
53 - West Bering Sea		na		na	
Parameter	Value	Units			
F-AGE-yr-yr	3-6	yr-yr			
TB-AGE-yr	2+	yr			
REC-AGE			Reference points		
SSB-AGE-yr			Parameter	Value	Units
SSB-SEX-sex					
M					
A50-yr					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1994	1994
Maximum year			2004	2004
Time series minimum	0.25		687000	288900
Time series maximum	0.76		1602000	753000
Units	1/yr		MT	MT



# Assessment of Western Baltic atlantic cod (*Gadus morhua*)

Assessment ID:WGBFAS-CODBA2224-1969-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/26>

Area ID: multinational-ICES-22-24

## General assessment details.

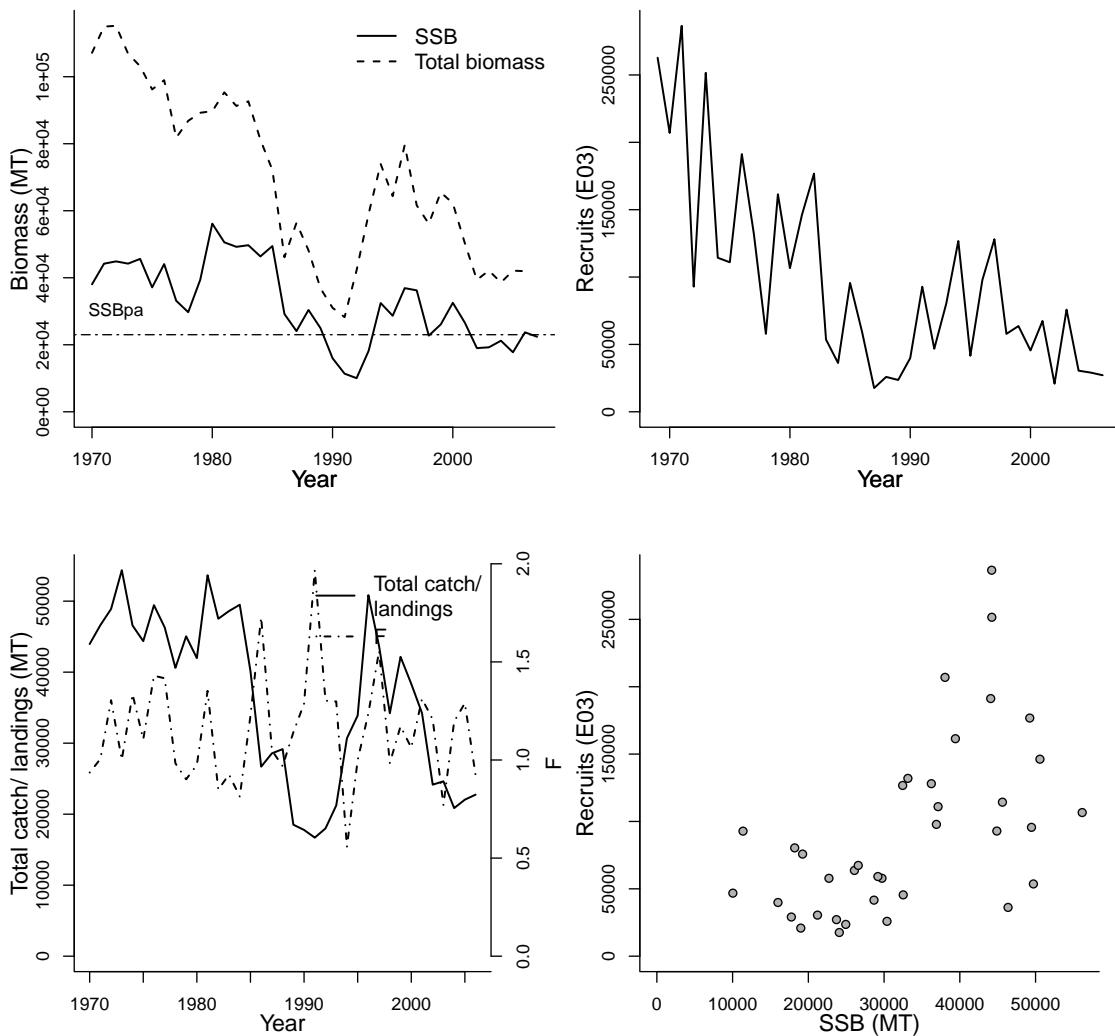
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1969-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-27

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

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			23 - Baltic Sea	na	na
SSB-AGE-yr	AVAILABLE	yr			
REC-AGE-yr	1	yr			
F-AGE-yr-yr	3 to 6	yr-yr			Reference points
TB-AGE-yr	1+	yr		Parameter	Value
A50-yr	AVAILABLE	yr		SSBpa-MT (SSB)	23000
M-1/T	AVAILABLE	1/T		MT	
SSB-SEX-sex					
M					
L50-cm					

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1970	1969	1970	1970	1970
Maximum year	2007	2006	2006	2006	2006
Time series minimum	10034	17605	0.5573	28235	16693
Time series maximum	56154	286485	1.9674	115194	54357
Units	MT	E03	1/T	MT	MT



# Assessment of Eastern Baltic atlantic cod (*Gadus morhua*)

Assessment ID:WGBFAS-CODBA2532-1964-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/27>

Area ID: multinational-ICES-25-32

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1964-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-27

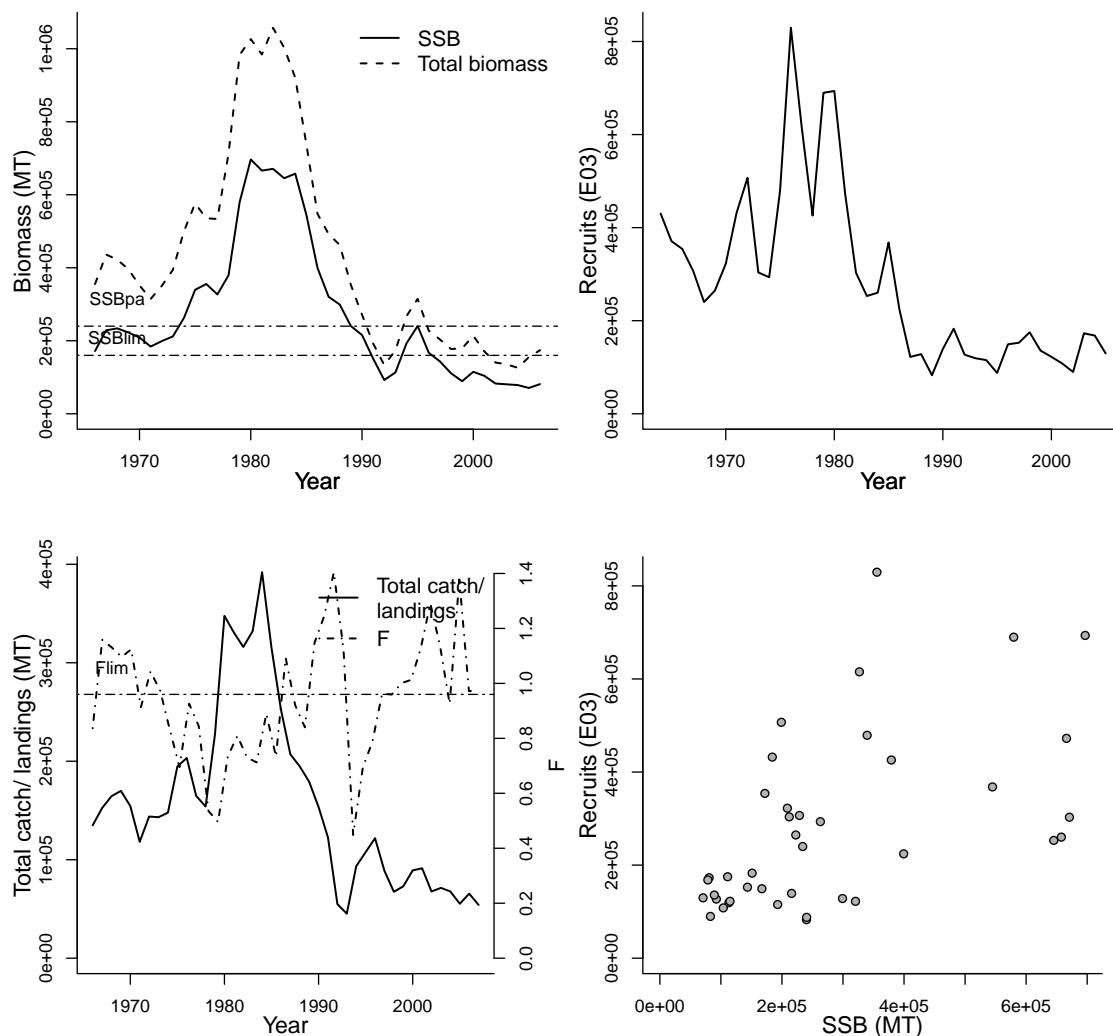
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			23 - Baltic Sea	na	na
SSB-AGE-yr	AVAILABLE	yr			
REC-AGE-yr	2	yr			
F-AGE-yr-yr	4 to 7	yr-yr			
TB-AGE-yr	2+	yr			
A50-yr	AVAILABLE	yr			
M-1/T	0.2	1/T			
SSB-SEX-sex					
M					
L50-cm					

Parameter	Reference points	Value	Units
Flim-1/T (F)	0.96	1/T	
Fpa-1/T (F)	0.6	1/T	
SSBlim-MT (SSB)	160000	MT	
SSBpa-MT (SSB)	240000	MT	
$SSB_{2006}/SSB_{lim}$	0.507		
$F_{2006}/F_{lim}$	1.018		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1966	1964	1966	1966
Maximum year	2006	2005	2006	2006
Time series minimum	70762	82818	0.4482	125877
Time series maximum	696743	829398	1.4046	1057368
Units	MT	E03	1/T	MT



# Assessment of Kattegat and Skagerrak atlantic cod (*Gadus morhua*)

Assessment ID:WGBFAS-CODKAT-1970-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/380>

Area ID: multinational-ICES-IIIa

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anonymous
Assessment method	The ADAPT approach with year effects in a catch multiplier
Publication year	2007
Timeseries span	1970-2006
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

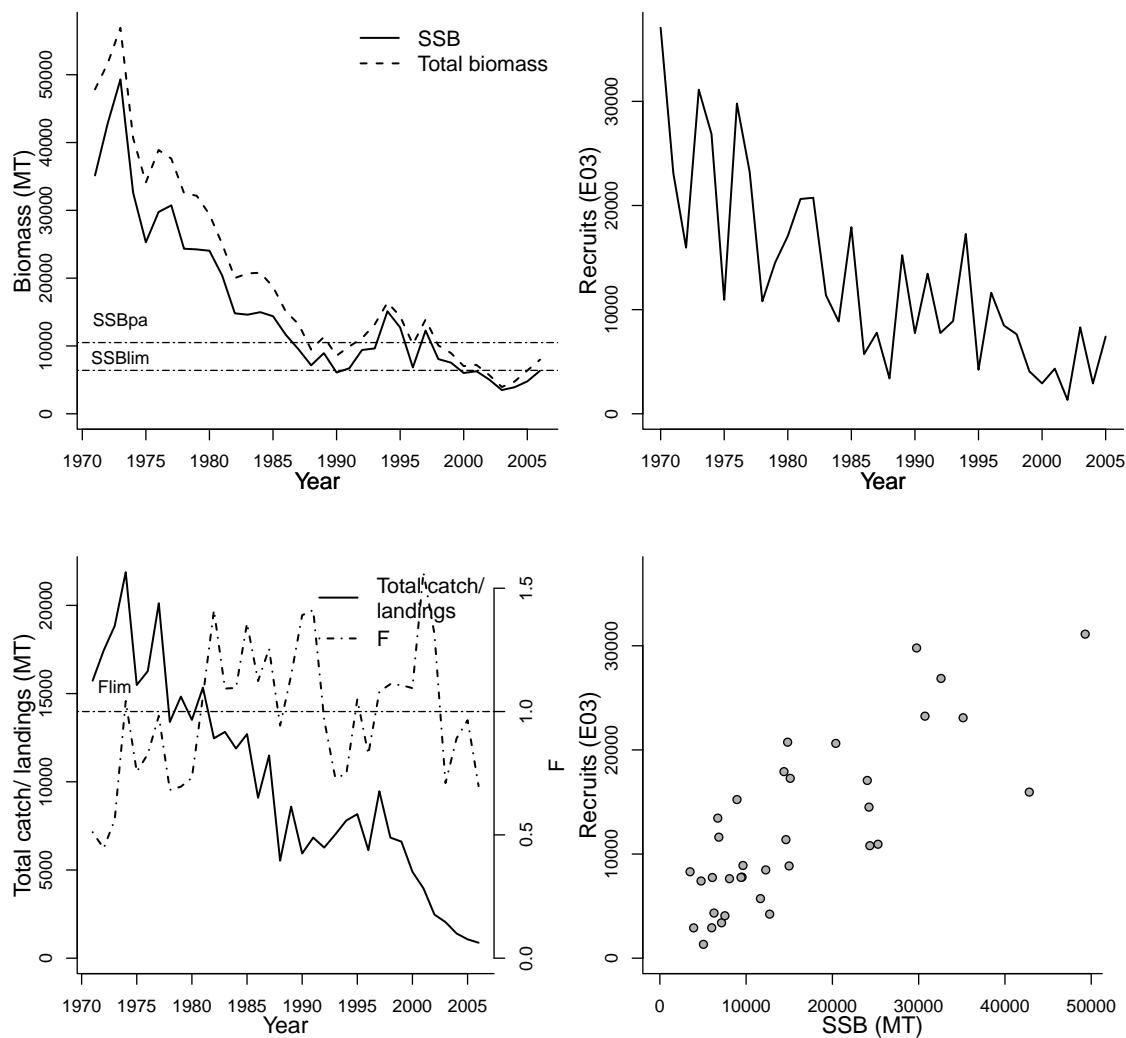
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units
A50-yr	2	yr
SSB-AGE-yr	1+	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
F-AGE-yr-yr	3-5	yr-yr
M-1/T	0.2	1/T
SSB-SEX-sex		
M		
L50-cm		

Parameter	Value	Units
Flim-1/T (F)	1	1/T
Fpa-1/T (F)	0.6	1/T
SSBpa-MT (SSB)	10500	MT
SSBlim-MT (SSB)	6400	MT
$SSB_{2006}/SSB_{lim}$	0.992	
$F_{2006}/F_{lim}$	0.698	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1971	1970	1971	1971	1971
Maximum year	2006	2005	2006	2006	2006
Time series minimum	3500	1330	0.4454	3952	876
Time series maximum	49301	37064	1.565	56919	21880
Units	MT	E03	1/T	MT	MT



# Assessment of Eastern Baltic herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERR2532-1973-2006-JENNINGS

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/29>

Area ID: multinational-ICES-25-32

## General assessment details.

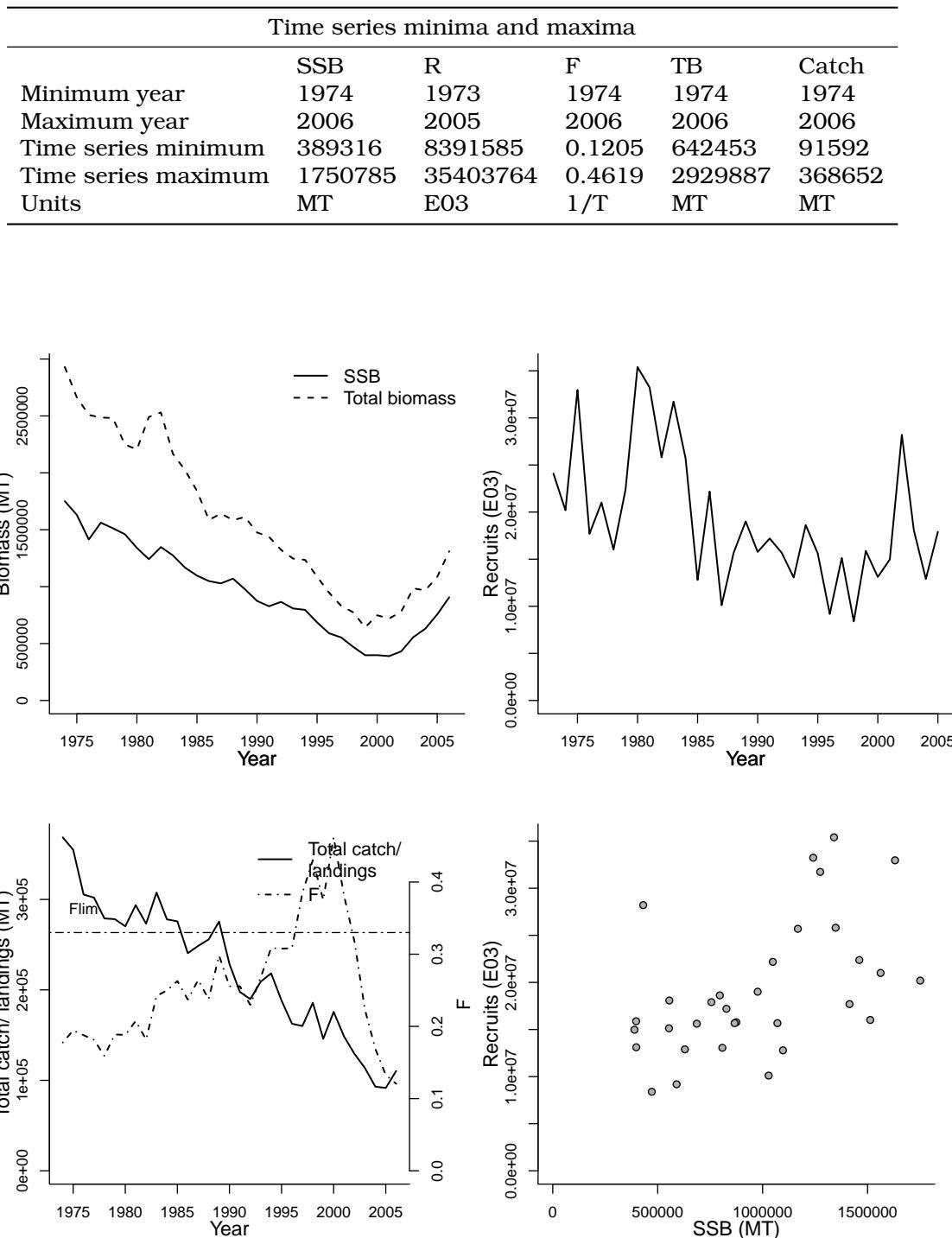
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1973-2006
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			23 - Baltic Sea	na	na
SSB-AGE-yr	AVAILABLE	yr			
REC-AGE-yr	1	yr			
F-AGE-yr-yr	3 to 6	yr-yr			
TB-AGE-yr	1+	yr			
A50-yr	AVAILABLE	yr			
M-1/T	AVAILABLE	1/T			
SSB-SEX-sex					
M					
L50-cm					

Parameter	Value	Units	Reference points
Flim-1/T (F)	0.33	1/T	
Fpa-1/T (F)	0.17	1/T	
$F_{2006}/F_{lim}$	0.365		



# Assessment of Bothnian Sea herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERR30-1972-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/30>

Area ID: multinational-ICES-30

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1972-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

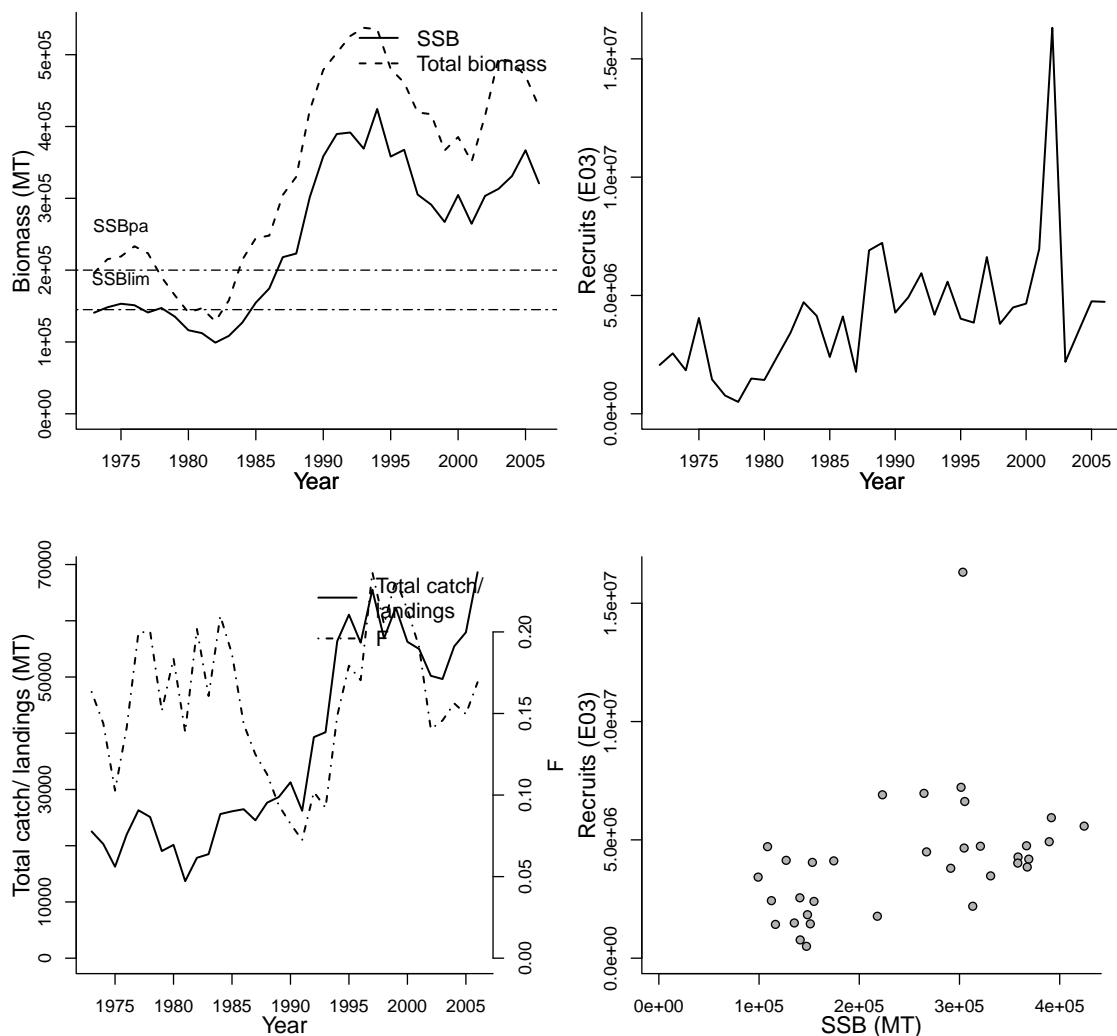
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			23 - Baltic Sea	na	na
SSB-AGE-yr	AVAILABLE	yr			
REC-AGE-yr	1	yr			
F-AGE-yr-yr	3 to 7	yr-yr			
TB-AGE-yr	1+	yr			
A50-yr	AVAILABLE	yr			
M-1/T	0.2	1/T			
SSB-SEX-sex					
M					
L50-cm					

Parameter	Reference points	Value	Units
Flim-1/T (F)	0.3	1/T	
Fpa-1/T (F)	0.21	1/T	
SSBlim-MT (SSB)	145000	MT	
SSBpa-MT (SSB)	200000	MT	
$SSB_{2006}/SSB_{lim}$	2.213		
$F_{2006}/F_{lim}$	0.564		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1973	1972	1973	1973
Maximum year	2006	2006	2006	2006
Time series minimum	99048	501629	0.0724	128629
Time series maximum	424424	16311979	0.2366	537441
Units	MT	E03	1/T	MT



# Assessment of Bothnian Bay herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERR31-1979-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/31>

Area ID: multinational-ICES-31

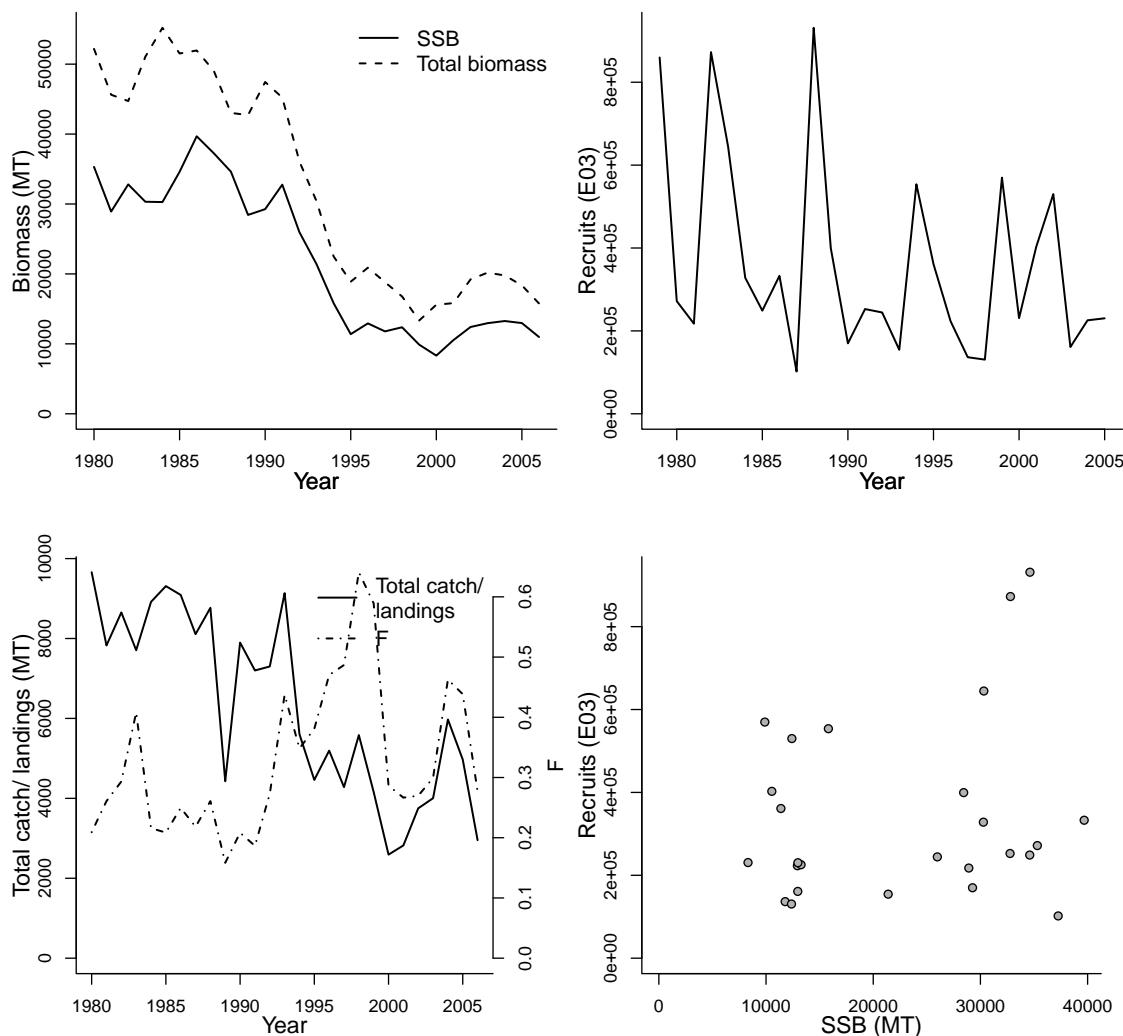
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1979-2006
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			23 - Baltic Sea	na	na
SSB-AGE-yr	AVAILABLE	yr			
REC-AGE-yr	1	yr			
F-AGE-yr-yr	3 to 7	yr-yr			
TB-AGE-yr	1+	yr			Reference points
A50-yr	AVAILABLE	yr		Parameter	Value
M-1/T	0.15	1/T			Units
SSB-SEX-sex					
M					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1980	1979	1980	1980
Maximum year	2006	2005	2006	2006
Time series minimum	8318	102001	0.1584	13338
Time series maximum	39680	931324	0.6409	55196
Units	MT	E03	1/T	MT



# Assessment of Iceland Grounds herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERRIsum-1983-2007-JENNINGS

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/47>

Area ID: multinational-ICES-Va

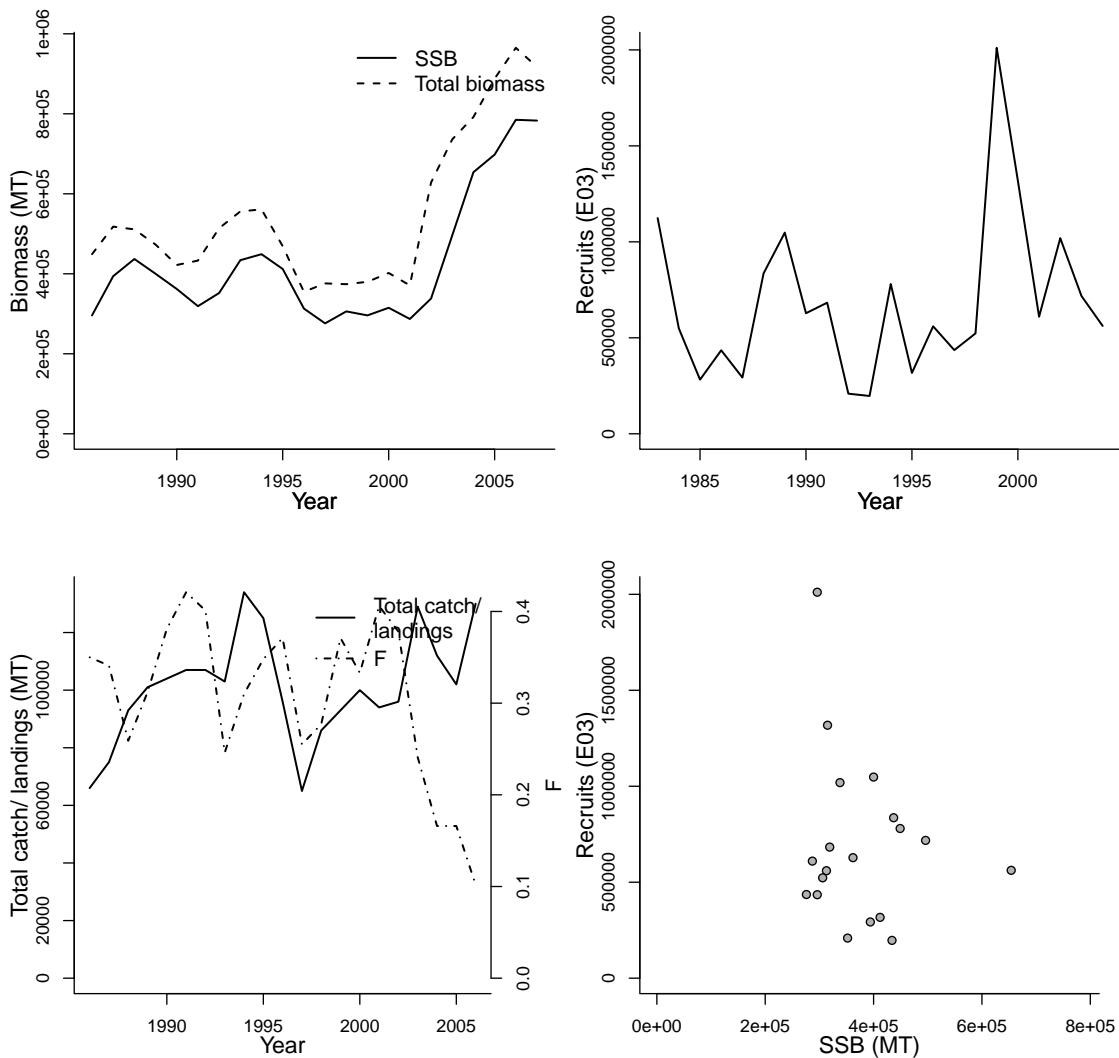
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	VPA/ADPAT version 2.3.2 NOAA Fisheries
Publication year	2007
Timeseries span	1983-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-25
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME		secondary LME	tertiary LME
59 - Iceland Shelf		na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	3	yr	
F-AGE-yr-yr	5 to 10	yr-yr	
TB-AGE-yr	3+	yr	Reference points
A50-yr	AVAILABLE	yr	Parameter
M-1/T	0.1	1/T	Value
SSB-SEX-sex			Units
M			
L50-cm			

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1986	1983	1986	1986
Maximum year	2007	2004	2006	2007
Time series minimum	276000	197000	0.102	355000
Time series maximum	785000	2011000	0.421	965000
Units	MT	E03	1/T	MT



# Assessment of Gulf of Riga East of Gotland herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERRIGA-1976-2007-JENNINGS

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/32>

Area ID: multinational-ICES-28

## General assessment details.

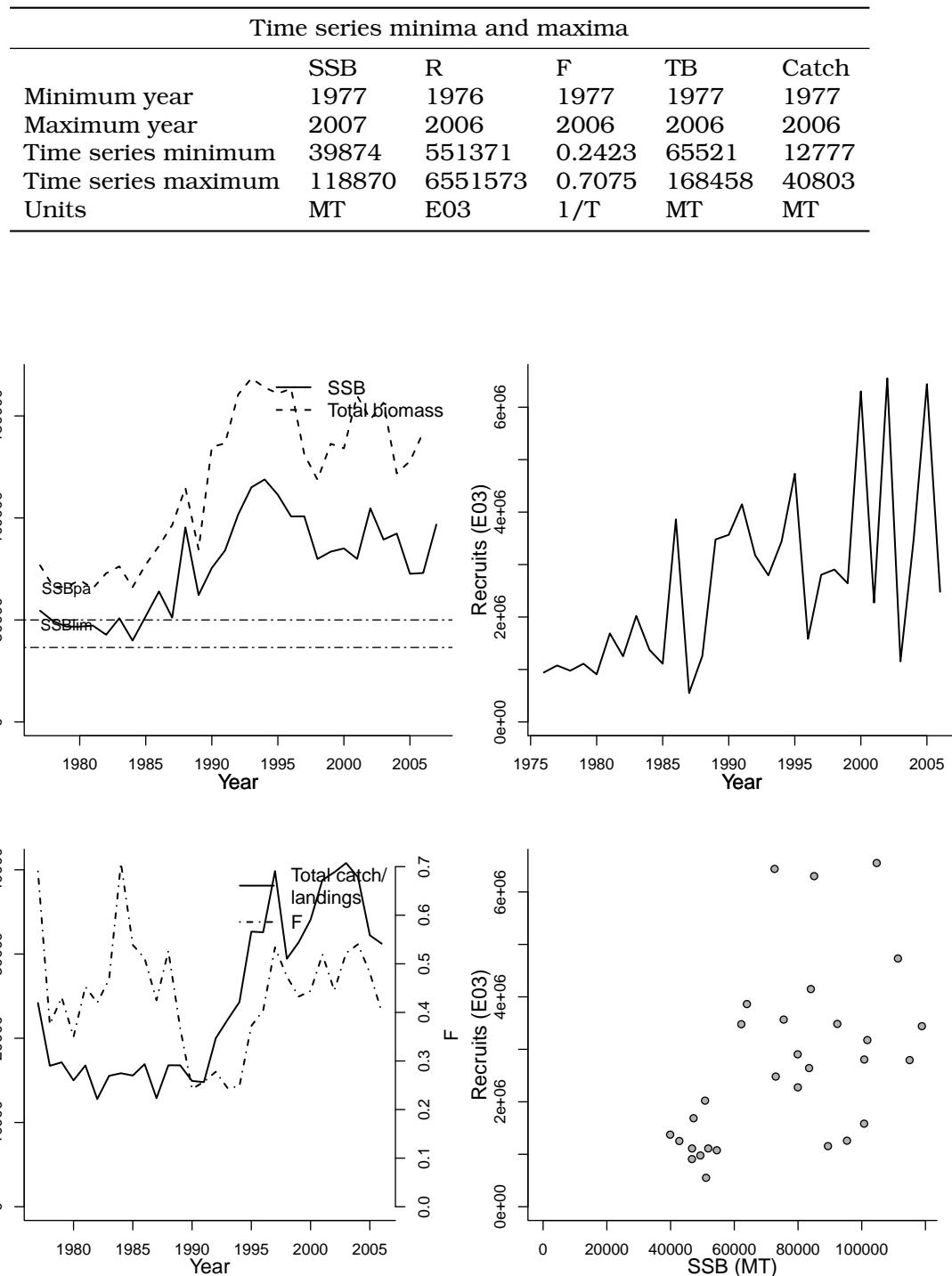
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1976-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			23 - Baltic Sea	na	na
SSB-AGE-yr	1.5	yr			
REC-AGE-yr	1	yr			
F-AGE-yr-yr	3 to 7	yr-yr			
TB-AGE-yr	1+	yr			
A50-yr	1.5	yr			
M-1/T	AVAILABLE	1/T			
SSB-SEX-sex					
M					
L50-cm					

Parameter	Value	Units	Reference points
			Parameter
			Value
			Units
Fpa-1/T (F)	0.4	1/T	
SSBlim-MT (SSB)	36500	MT	
SSBpa-MT (SSB)	50000	MT	
$SSB_{2007}/SSB_{lim}$	2.651		



# Assessment of Kattegat and Skagerrak common european sole (*Solea vulgaris*)

Assessment ID:WGBFAS-SOLEIIIa-1982-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/80>

Area ID: multinational-ICES-IIIa

## General assessment details.

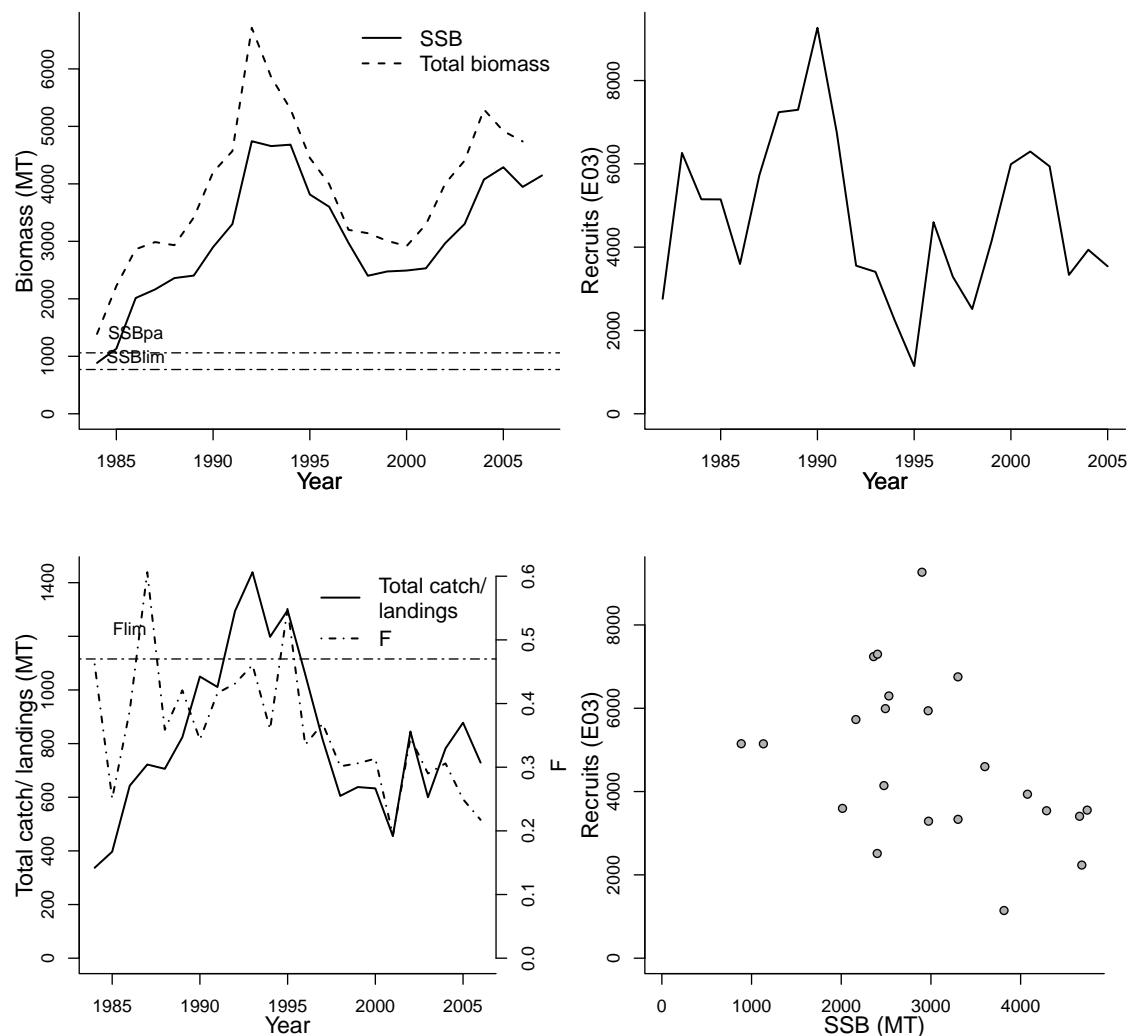
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-27
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-29

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

Parameter	Value	Units
SSB-AGE-yr	3	yr
REC-AGE-yr	2	yr
F-AGE-yr-yr	4 to 8	yr-yr
TB-AGE-yr	2+	yr
A50-yr	3	yr
M-1/T	0.1	1/T
SSB-SEX-sex		
M		
L50-cm		

Parameter	Reference points	Value	Units
Flim-1/T (F)		0.47	1/T
Fpa-1/T (F)		0.3	1/T
SSBlim-MT (SSB)		770	MT
SSBpa-MT (SSB)		1060	MT
$SSB_{2007}/SSB_{lim}$		5.384	
$F_{2006}/F_{lim}$		0.462	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1984	1982	1984	1984	1984
Maximum year	2007	2005	2006	2006	2006
Time series minimum	885	1145	0.1935	1390	337
Time series maximum	4742	9266	0.6063	6715	1439
Units	MT	E03	1/T	MT	MT



# Assessment of Baltic Areas 22-32 sprat (*Sprattus sprattus*)

Assessment ID:WGBFAS-SPRAT22-32-1973-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/35>

Area ID: multinational-ICES-22-32

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1973-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-19
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

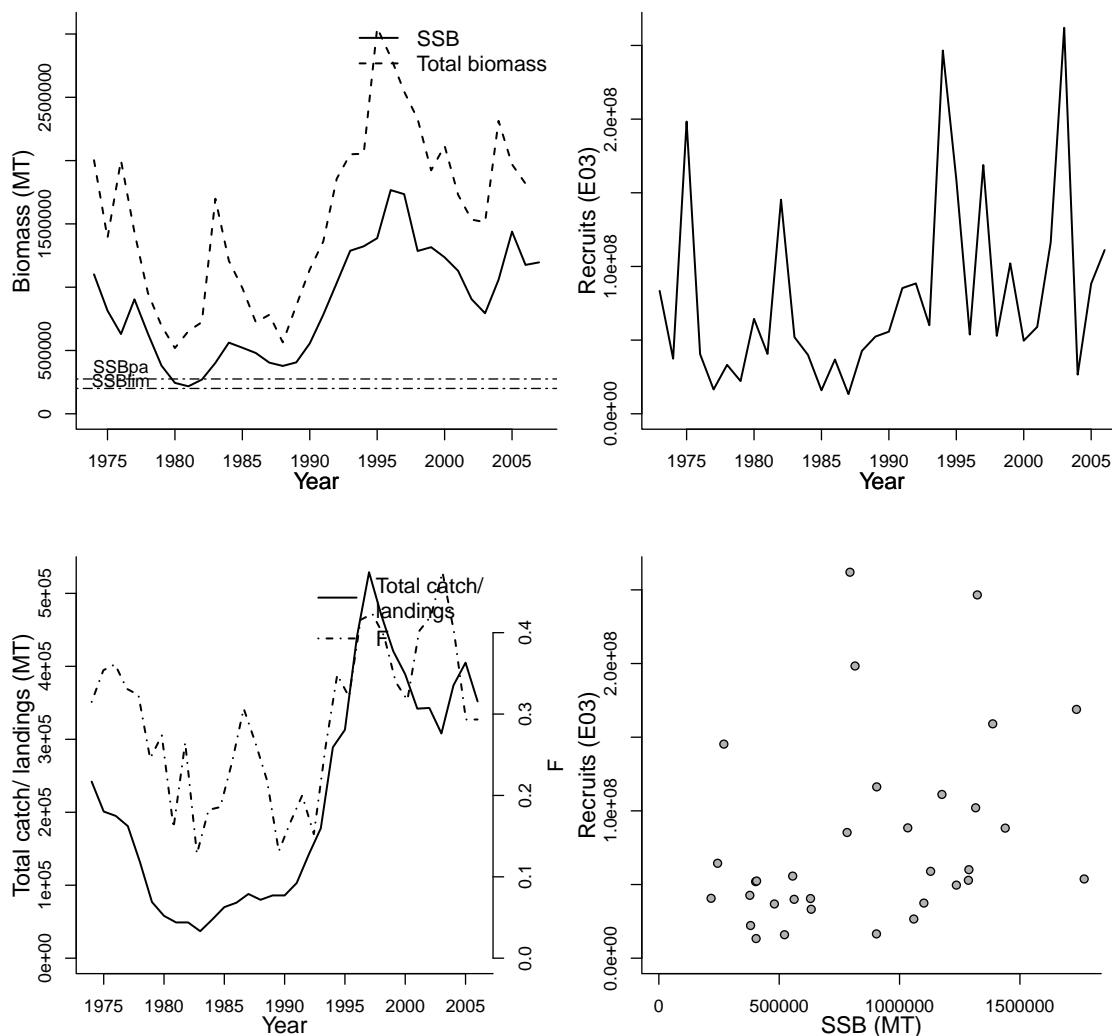
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			23 - Baltic Sea	na	na
SSB-AGE-yr	AVAILABLE	yr			
REC-AGE-yr	1	yr			
F-AGE-yr-yr	3 to 5	yr-yr			
TB-AGE-yr	1+	yr			
A50-yr	AVAILABLE	yr			
M-1/T	AVAILABLE	1/T			
SSB-SEX-sex					
M					
L50-cm					

Parameter	Reference points	Value	Units
Fpa-1/T (F)	0.4	1/T	
SSBlim-MT (SSB)	200000	MT	
SSBpa-MT (SSB)	275000	MT	
SSB <sub>2007</sub> /SSB <sub>lim</sub>	5.980		

	Time series minima and maxima				
	SSB	R	F	TB	Catch
Minimum year	1974	1973	1974	1974	1974
Maximum year	2007	2006	2007	2006	2006
Time series minimum	217000	13334000	0.1281	519000	37000
Time series maximum	1767000	261984000	0.4743	3049000	529000
Units	MT	E03	1/T	MT	MT



# Assessment of VIIc-IXa fourspotted megrim (*Lepidorhombus boscii*)

Assessment ID: WGHMM-FMEG8c9a-1986-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/49>

Area ID: multinational-ICES-VIIc-IXa

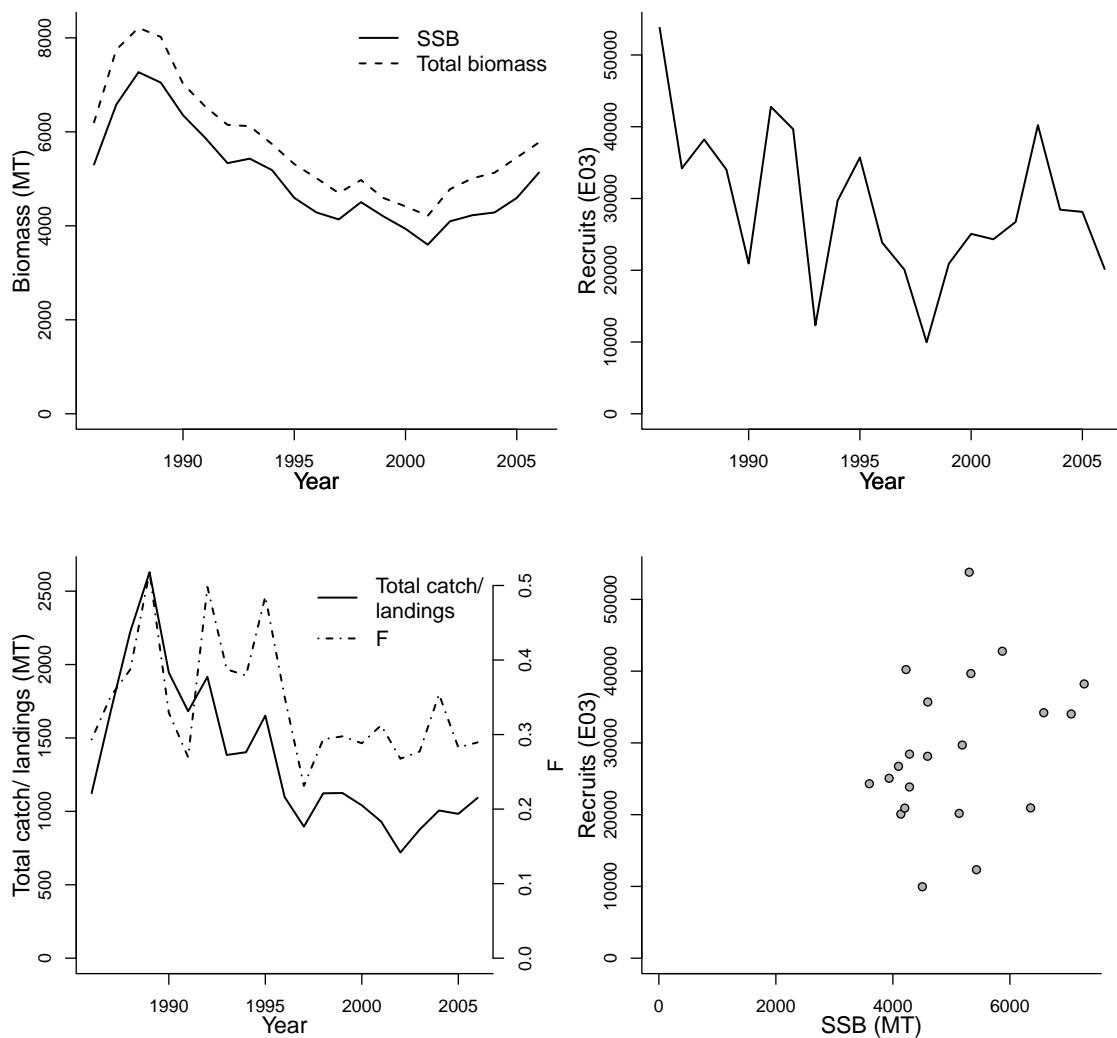
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrin
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1986-2006
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-24
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

	primary LME	secondary LME	tertiary LME
25 - Iberian Coastal	na	na	
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	0	yr	
F-AGE-yr-yr	2 to 4	yr-yr	
TB-AGE-yr	0+	yr	Reference points
A50-yr	AVAILABLE	yr	Parameter
M-1/T	0.2	1/T	Value
SSB-SEX-sex			Units
M			
L50-cm			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1986	1986	1986	1986	1986
Maximum year	2006	2006	2006	2006	2006
Time series minimum	3598	9961	0.2312	4214	720
Time series maximum	7270	53785	0.5178	8214	2629
Units	MT	E03	1/T	MT	MT



# Assessment of IIIa-IV-VI-VII-VIIIabd hake

## (*Merluccius merluccius*)

Assessment ID: WGHMM-HAKENRTN-1977-2007-JENNINGS

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/33>

Area ID: multinational-ICES-IIIa-IV-VI-VII-VIIIabd

### General assessment details.

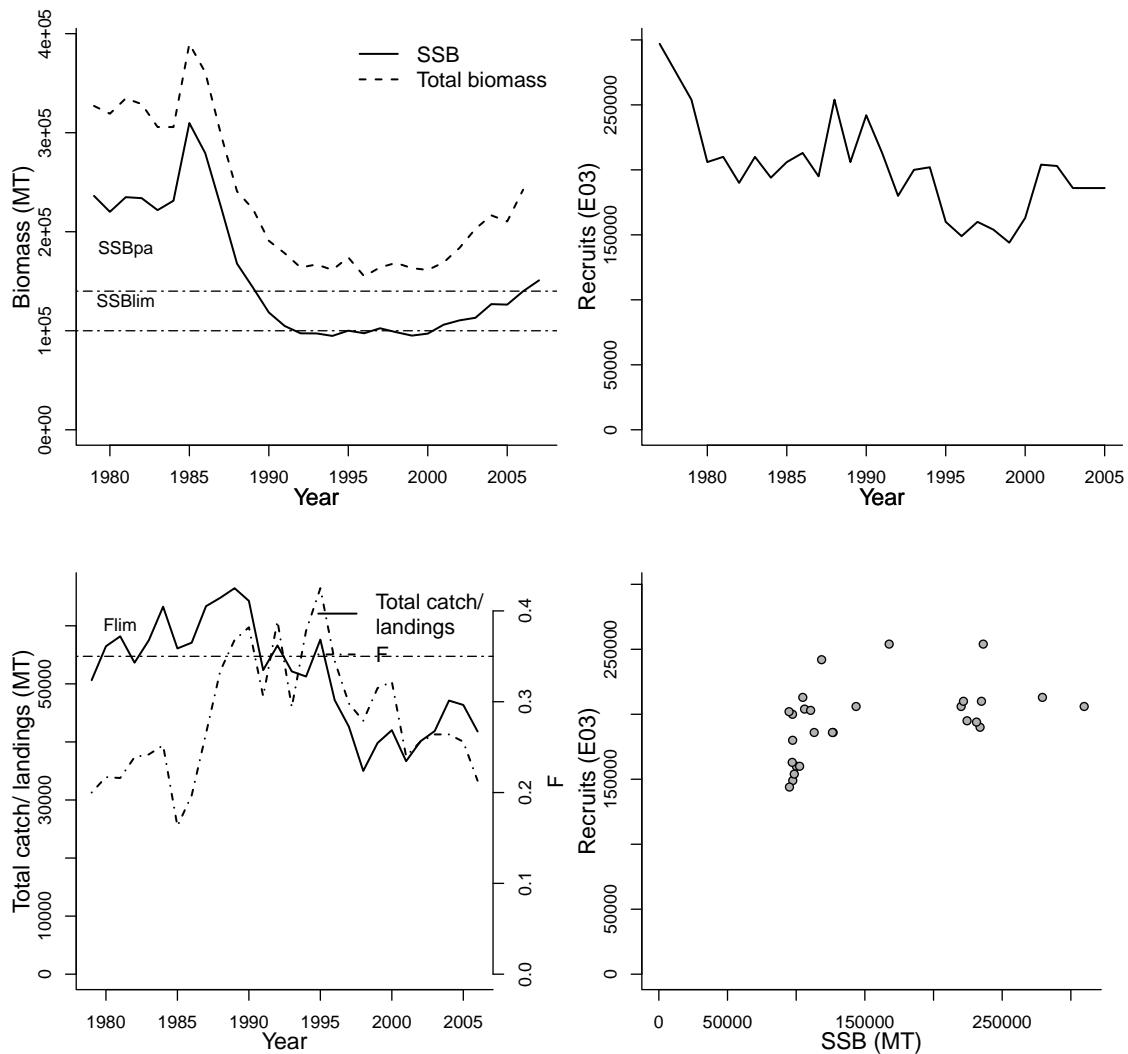
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrin
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1977-2007
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-20
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME			secondary LME			tertiary LME		
24 - Celtic-Biscay Shelf			22 - North Sea			na		
Parameter	Value	Units	Reference points					
			Parameter	Value	Units			
SSB-AGE-yr	AVAILABLE	yr	Flim-1/T (F)	0.35	1/T			
REC-AGE-yr	0	yr	Fpa-1/T (F)	0.25	1/T			
F-AGE-yr-yr	2 to 6	yr-yr	SSBlim-MT (SSB)	100000	MT			
TB-AGE-yr	0+	yr	SSBpa-MT (SSB)	140000	MT			
A50-yr	AVAILABLE	yr	SSB <sub>2007</sub> /SSB <sub>lim</sub>	1.509				
M-1/T	0.2	1/T	F <sub>2006</sub> /F <sub>lim</sub>	0.609				
SSB-SEX-sex								
M								
L50-cm								

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1979	1977	1979	1979	1979
Maximum year	2007	2005	2006	2006	2006
Time series minimum	94800	144000	0.163	154969	35010
Time series maximum	309700	297000	0.425	389774	66472
Units	MT	E03	1/T	MT	MT



# Assessment of VIIc-IXa hake (*Merluccius merluccius*)

Assessment ID: WGHMM-HAKESOTH-1982-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/34>

Area ID: multinational-ICES-VIIc-IXa

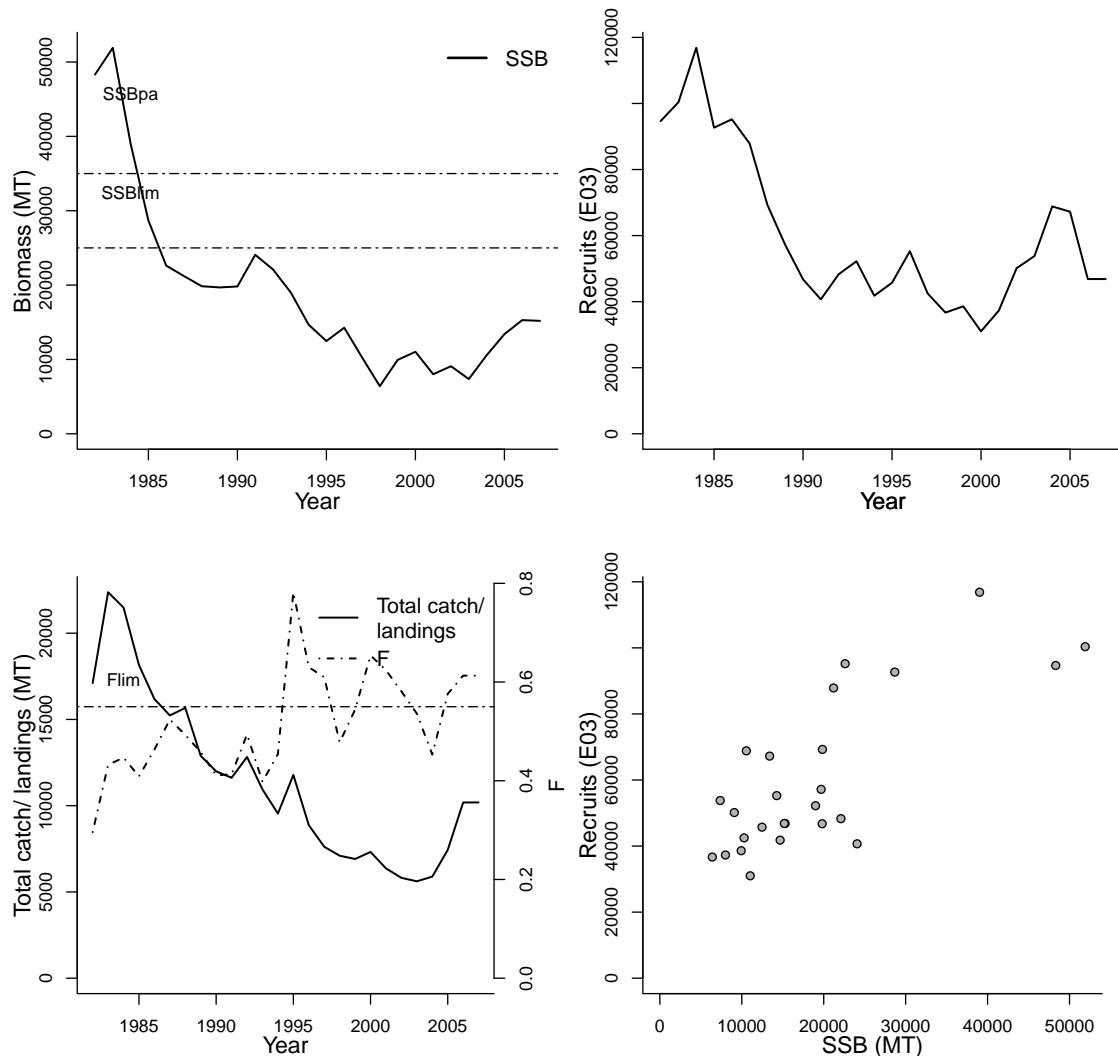
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrin
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2007
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME			secondary LME			tertiary LME		
25 - Iberian Coastal			na			na		
Parameter	Value	Units	Reference points					
			Parameter	Value	Units			
SSB-AGE-yr	AVAILABLE	yr	Flim-1/T (F)	0.55	1/T			
REC-AGE-yr	0	yr	Fpa-1/T (F)	0.44	1/T			
F-AGE-yr-yr	2 to 5	yr-yr	SSBlim-MT (SSB)	25000	MT			
TB-AGE-yr	0+	yr	SSBpa-MT (SSB)	35000	MT			
A50-yr	AVAILABLE	yr	$SSB_{2007}/SSB_{lim}$	0.608				
M-1/T	0.2	1/T	$F_{2007}/F_{lim}$	1.115				
SSB-SEX-sex								
M								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1982	1982	1982		1982
Maximum year	2007	2007	2007		2007
Time series minimum	6401	31003	0.296		5617
Time series maximum	51913	116850	0.782		22376
Units	MT	E03	1/T	MT	MT



# Assessment of VIIc-IXa megrim (*Lepidorhombus whiffagonis*)

Assessment ID: WGHMM-MEG8c9a-1985-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/50>

Area ID: multinational-ICES-VIIc-IXa

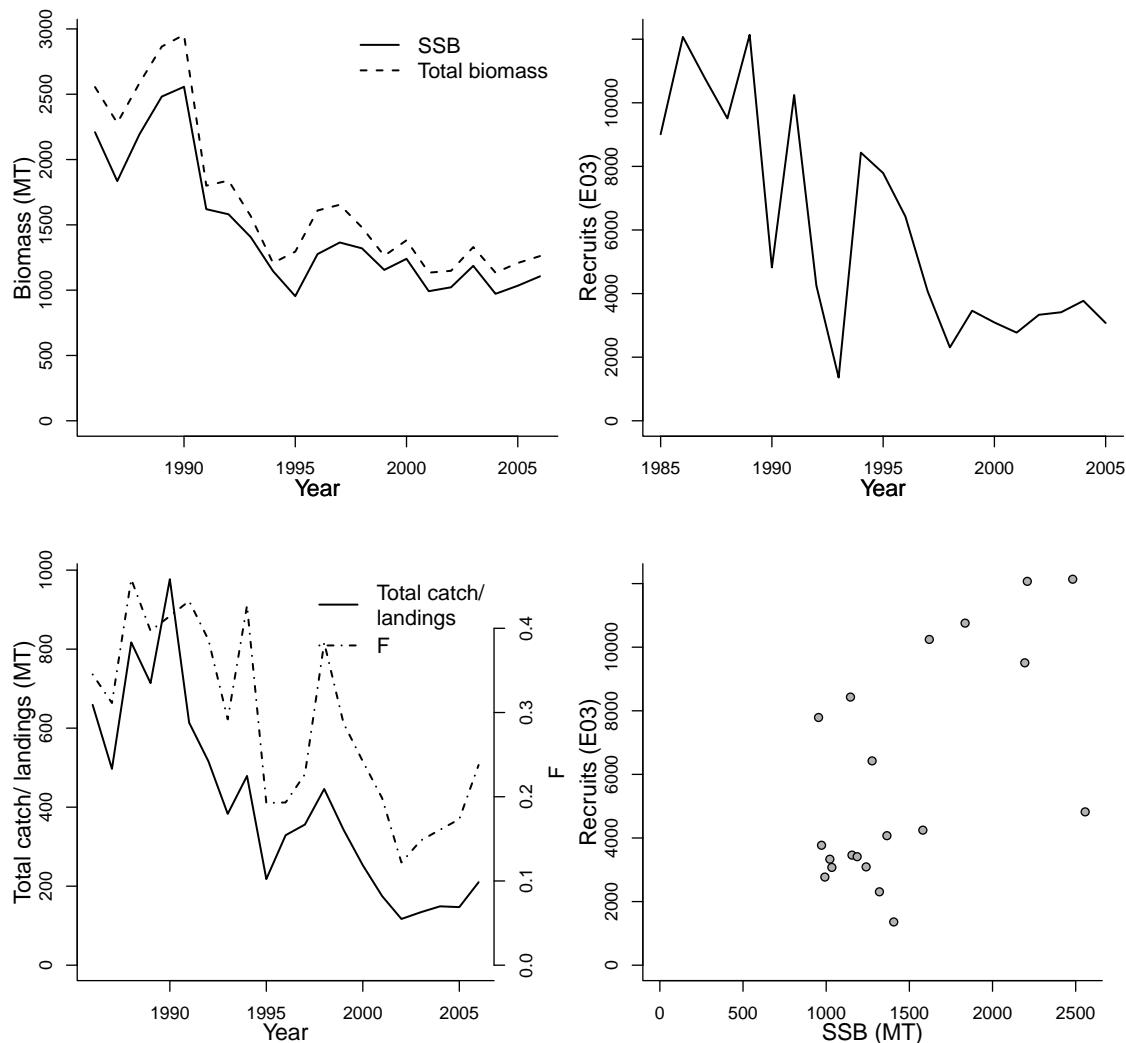
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrin
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1985-2007
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-24
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

	primary LME	secondary LME	tertiary LME
25 - Iberian Coastal	na	na	
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	
F-AGE-yr-yr	2 to 4	yr-yr	
TB-AGE-yr	1+	yr	Reference points
A50-yr	AVAILABLE	yr	Parameter
M-1/T	0.2	1/T	Value
SSB-SEX-sex			Units
M			
L50-cm			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1986	1985	1986	1986	1986
Maximum year	2006	2005	2006	2006	2006
Time series minimum	954	1360	0.1219	1134	117
Time series maximum	2557	12138	0.4583	2955	977
Units	MT	E03	1/T	MT	MT



# Assessment of Bay of Biscay common european sole (*Solea vulgaris*)

Assessment ID: WGHMM-SOLEVIII-1982-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/54>

Area ID: multinational-ICES-VIII

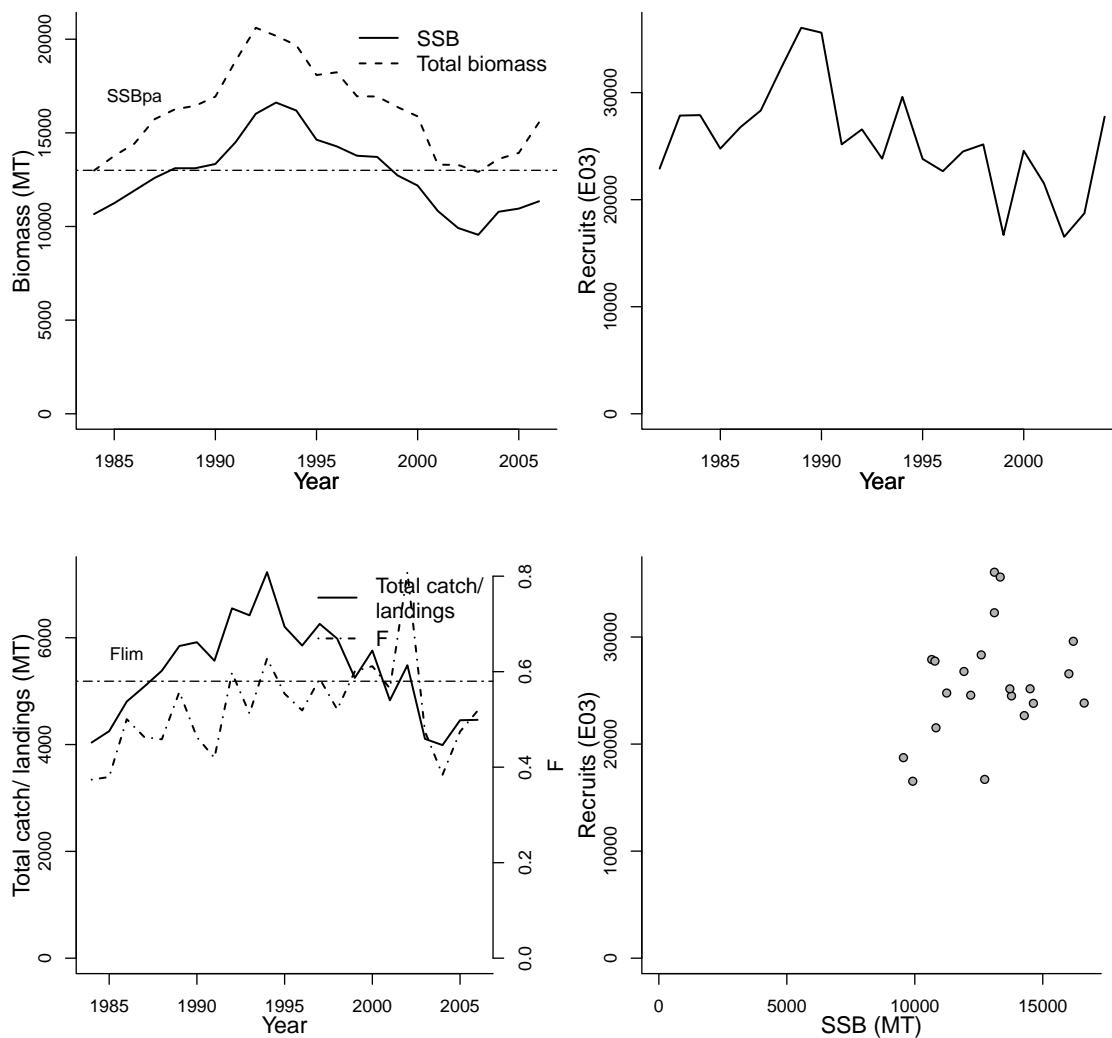
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrin
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2006
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-23
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		25 - Iberian Coastal	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	2	yr	
F-AGE-yr-yr	3 to 6	yr-yr	Reference points
TB-AGE-yr	2+	yr	Parameter
A50-yr	AVAILABLE	yr	Value
M-1/T	0.1	1/T	Units
SSB-SEX-sex			
M			Flim-1/T (F) 0.58 1/T
L50-cm			Fpa-1/T (F) 0.42 1/T
			SSBpa-MT (SSB) 13000 MT
			$F_{2006}/Flim$ 0.893

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1984	1982	1984	1984	1984
Maximum year	2006	2004	2006	2006	2006
Time series minimum	9556	16530	0.3739	12915	3990
Time series maximum	16618	36055	0.8083	20609	7227
Units	MT	E03	1/T	MT	MT



# Assessment of Bay of Biscay anchovy (*Engraulis encrasiculus*)

Assessment ID:WGMHSA-ANCHOBAYB-1986-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/44>

Area ID: multinational-ICES-VIII

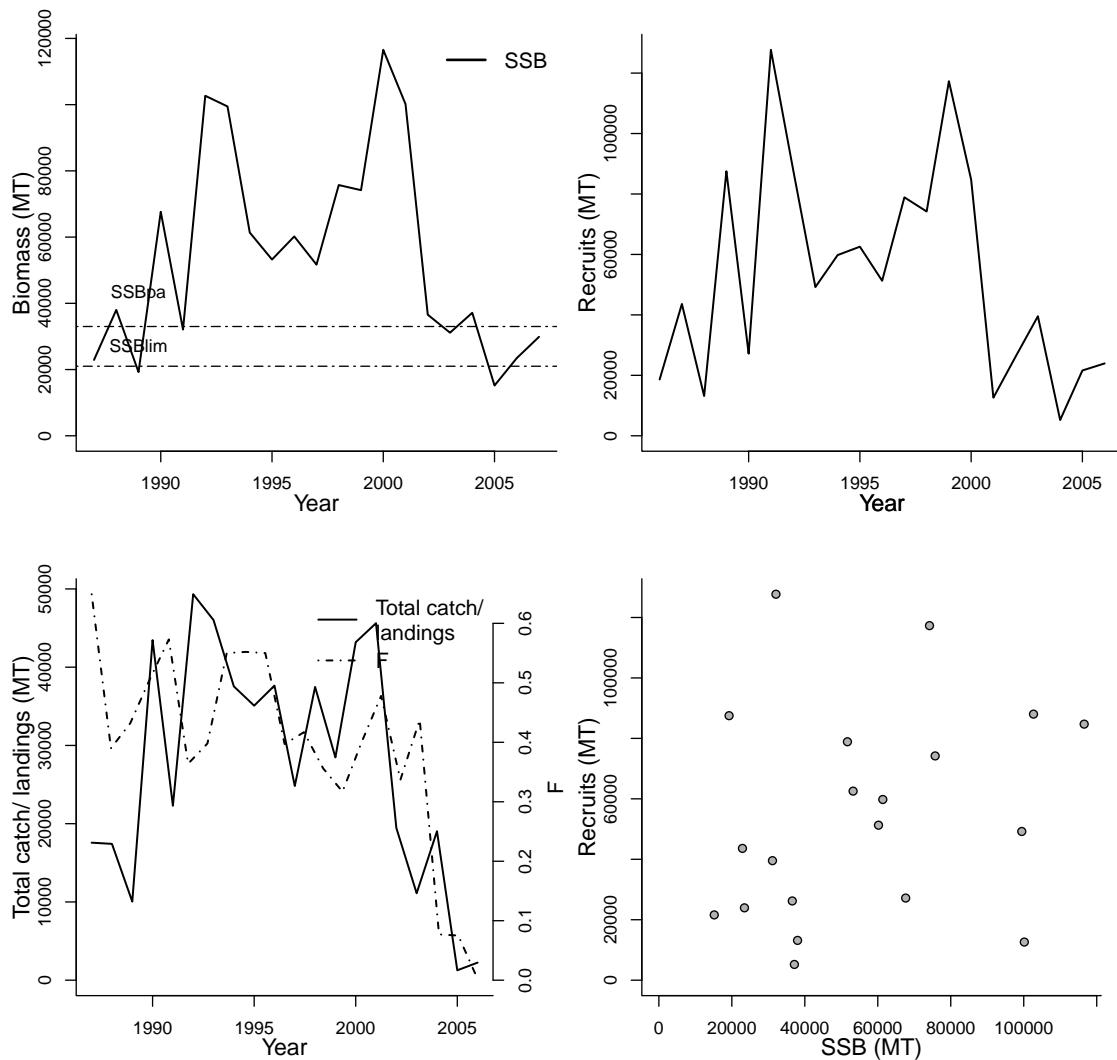
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Mackerel
Assessment authors	Anonymous
Assessment method	Bayesian Biomass Model
Publication year	2007
Timeseries span	1986-2007
Document	ICES-WGMHSA007.pdf (pdf not in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		25 - Iberian Coastal	na
Parameter	Value	Units	
SSB-AGE-yr	1	yr	Reference points
REC-AGE-yr	1	yr	Parameter
F-AGE-yr-yr	1 to 2	yr-yr	Value
TB-AGE-yr	1+	yr	Units
A50-yr	1	yr	Fpa-1/T (F)
M-1/T	1.2	1/T	SSBlim-MT (SSB)
SSB-SEX-sex			SSBpa-MT (SSB)
M			$SSB_{2007}/SSB_{lim}$
L50-cm			1.423

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1987	1986	1987	1987
Maximum year	2007	2006	2007	2006
Time series minimum	15177	5211	0.002	1264
Time series maximum	116561	127703	0.649	49325
Units	MT	MT	1/T	MT



# Assessment of IIa-IIIabd-IV-Vb-VI-VII-VIIIabcde-XII-XIV-Ixa mackerel (*Scomber scombrus*)

Assessment ID:WGMHSA-MACKNEICES-1972-2007-JENNINGS  
 Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/48>

Area ID:

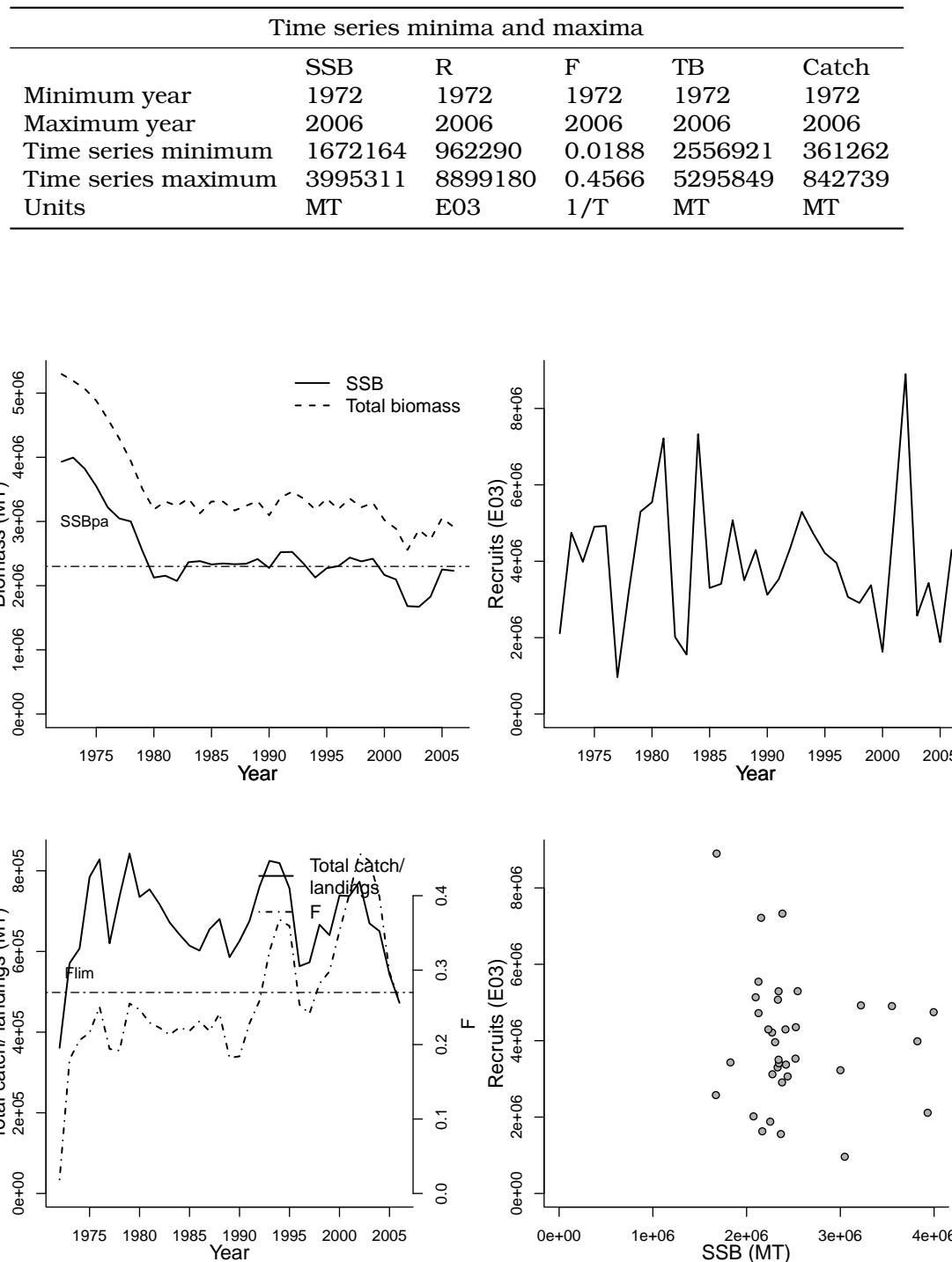
multinational-ICES-IIa-IIIabd-IV-Vb-VI-VII-VIIIabcde-XII-XIV-Ixa

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Mackerel
Assessment authors	Anonymous
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1972-2007
Document	ICES-WGMHSA07.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		25 - Iberian Coastal	22 - North Sea
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	0	yr	
F-AGE-yr-yr	4 to 8	yr-yr	Reference points
TB-AGE-yr	0+	yr	Parameter
A50-yr	AVAILABLE	yr	Value
M-1/T	0.15	1/T	Units
SSB-SEX-sex			
M			
L50-cm			



# Assessment of VIIc-IXa european pilchard (*Sardina pilchardus*)

Assessment ID:WGMHSA-SARDPVIIC-IXa-1978-2007-JENNINGS  
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/53>

Area ID: multinational-ICES-VIIc-IXa

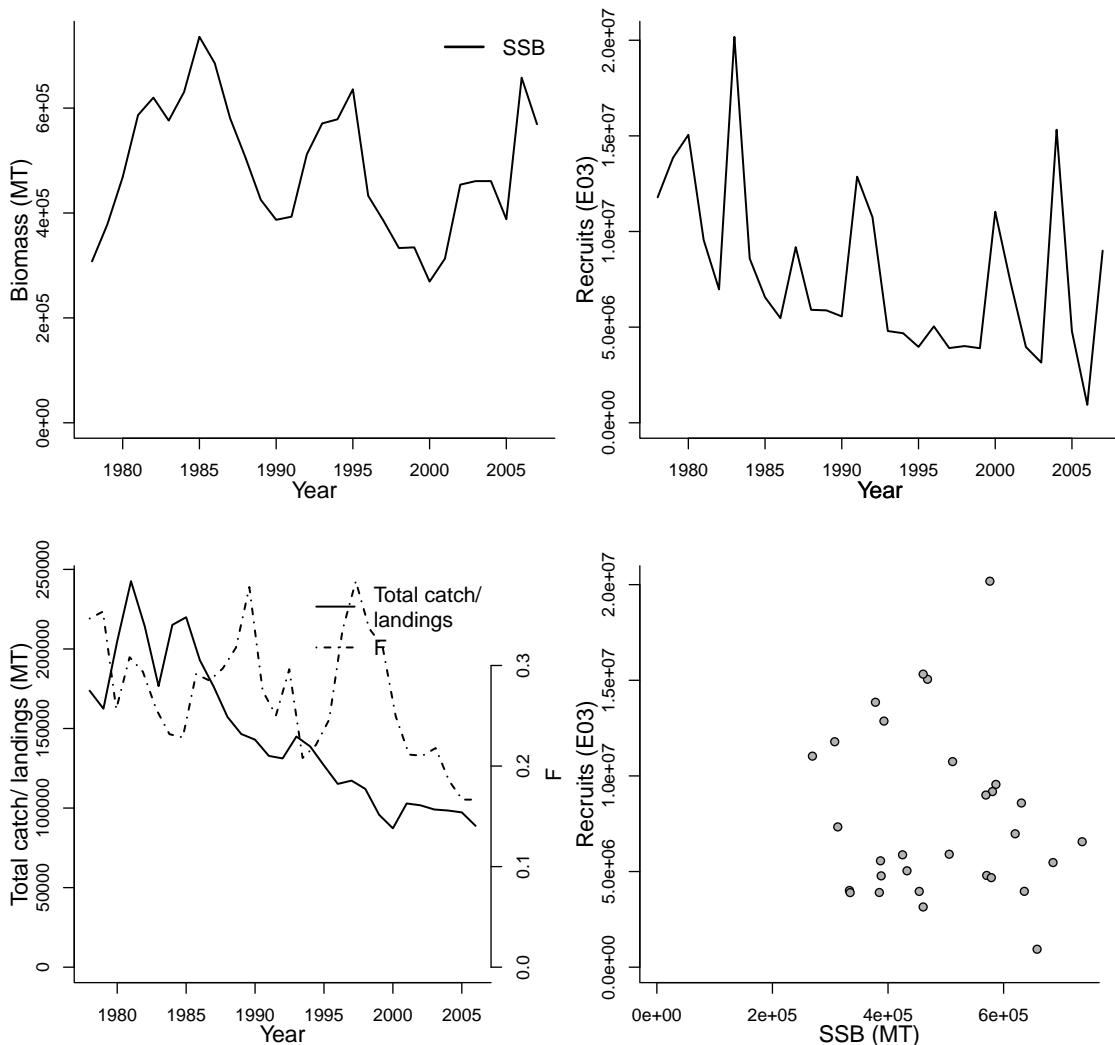
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Mackerel
Assessment authors	Anonymous
Assessment method	a flexible age structured model
Publication year	2007
Timeseries span	1978-2007
Document	ICES-WGMHSA07.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME	secondary LME	tertiary LME
25 - Iberian Coastal	na	na
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	0	yr
F-AGE-yr-yr	2 to 5	yr-yr
TB-AGE-yr	0+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.33	1/T
SSB-SEX-sex		
M		
L50-cm		
<hr/>		
Reference points		
Parameter	Value	Units

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1978	1978	1978
Maximum year	2007	2007	2007	2006
Time series minimum	269194	939973	0.1666	87272
Time series maximum	735950	20179479	0.3838	242574
Units	MT	E03	1/T	MT



# Assessment of Northeast Atlantic blue whiting

## *(Micromesistius poutassou)*

Assessment ID:WGNPBW-BWHITNEA-1980-2007-JENNINGS

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/79>

Area ID: multinational-ICES-I-II-III-IV-V-VI-VII-VIII-IX-XII-XIV

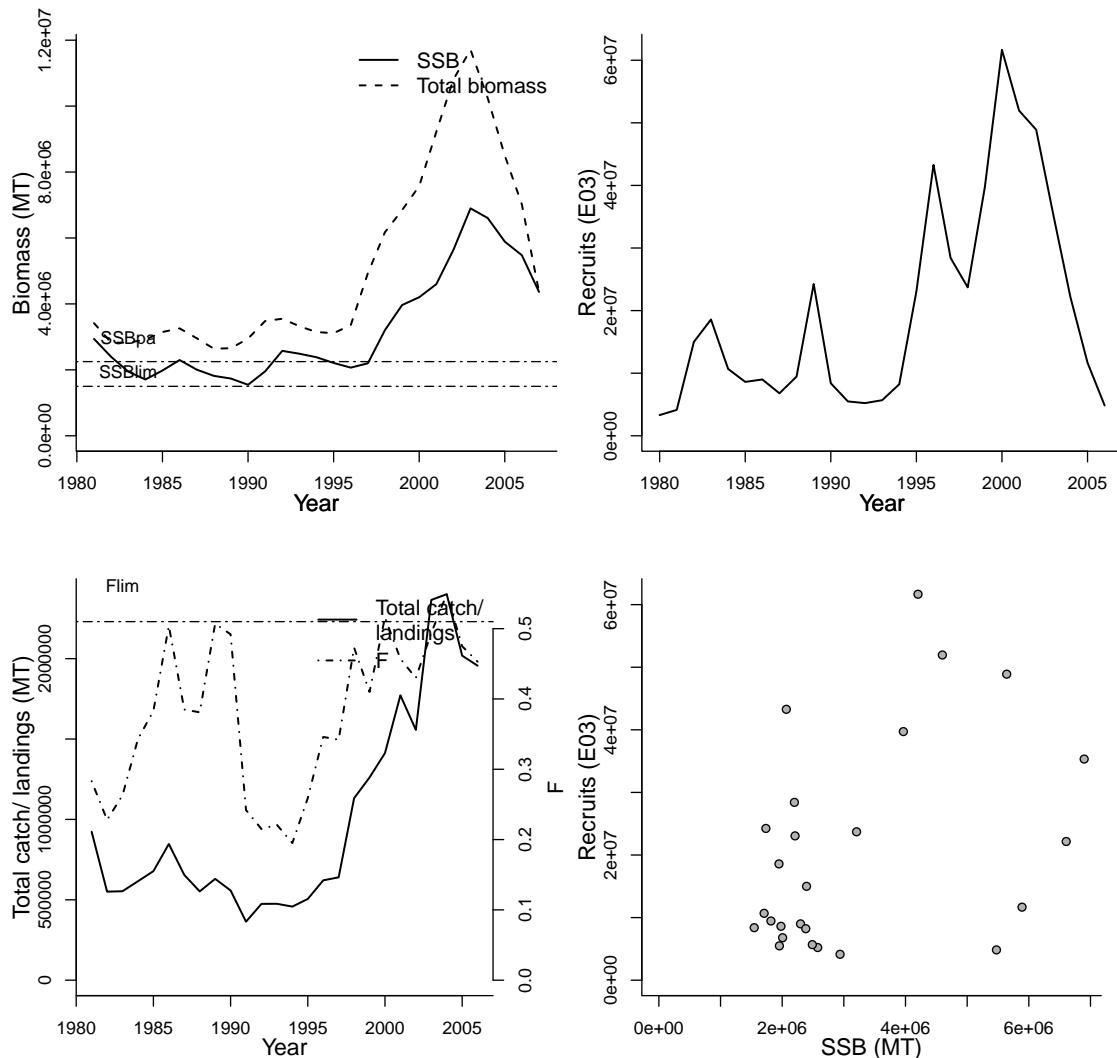
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	Northern Pelagic and Blue Whiting Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Stochastic Multi-species (SMS) model
Publication year	2007
Timeseries span	1980-2007
Document	ICES-WGNPBW-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-25
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		60 - Faroe Plateau	59 - Iceland Shelf
Parameter	Value	Units	Reference points
SSB-AGE-yr	AVAILABLE	yr	Parameter
REC-AGE-yr	1	yr	Value
F-AGE-yr-yr	3 to 7	yr-yr	Units
TB-AGE-yr	1+	yr	Flim-1/T (F)
A50-yr	AVAILABLE	yr	0.51
M-1/T	0.2	1/T	1/T
SSB-SEX-sex			Fpa-1/T (F)
M			0.32
L50-cm			SSBlim-MT (SSB)
			1500000
			MT
			SSBpa-MT (SSB)
			2250000
			MT
			$SSB_{2007}/SSB_{lim}$
			2.909
			$F_{2006}/F_{lim}$
			0.888

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981	1980	1981	1981	1981
Maximum year	2007	2006	2006	2007	2006
Time series minimum	1546719	3308512	0.195	2642113	364008
Time series maximum	6897723	61664776	0.549	11708107	2400795
Units	MT	E03	1/T	MT	MT



# Assessment of Irish Sea atlantic cod (*Gadus morhua*)

Assessment ID:WGNSDS-CODIS-1968-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/381>

Area ID: multinational-ICES-VIIa

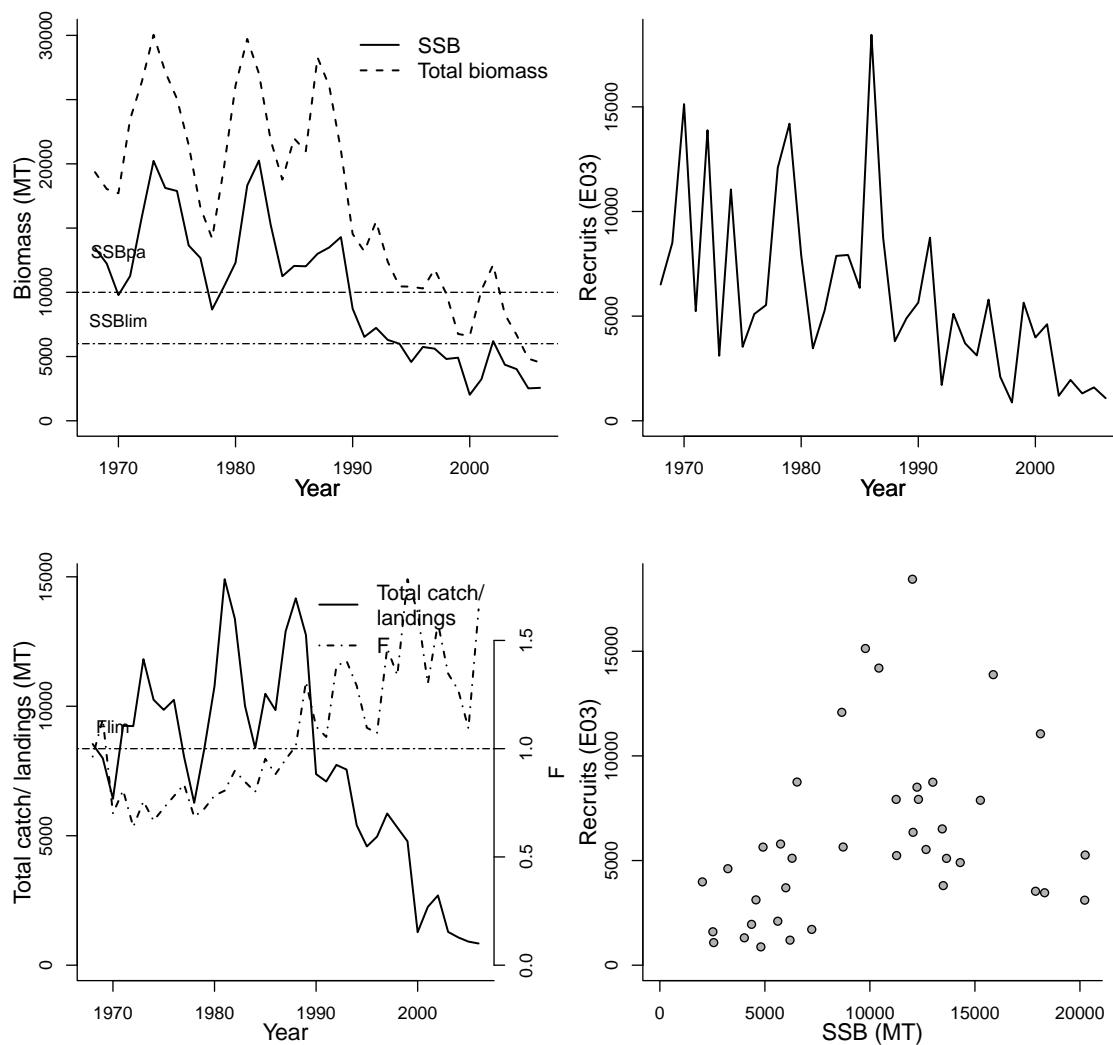
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	The ADAPT approach with year effects in a catch multiplier
Publication year	2007
Timeseries span	1968-2006
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME		tertiary LME
24 - Celtic-Biscay Shelf			na	na	
Parameter	Value	Units	Reference points		
A50-yr	2	yr	SSBlim-MT (SSB)	6000	MT
SSB-AGE-yr	2+	yr	SSBpa-MT (SSB)	10000	MT
REC-AGE-yr	0	yr	Fpa-1/T (F)	0.72	1/T
TB-AGE-yr	0+	yr	Fmax-1/T	0.32	1/T
M-1/T	0.2	1/T	Flim-1/T (F)	1	1/T
F-AGE-yr-yr	2-4	yr-yr	FO.1-1/T	0.18	1/T
SSB-SEX-sex			SSB <sub>2006</sub> /SSB <sub>lim</sub>	0.427	
M			F <sub>2006</sub> /F <sub>lim</sub>	1.644	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1968	1968	1968	1968
Maximum year	2006	2006	2006	2006
Time series minimum	2025	875	0.6386	4537
Time series maximum	20249	18442	1.7828	30044
Units	MT	E03	1/T	MT



# Assessment of West of Scotland atlantic cod

## *(Gadus morhua)*

Assessment ID:WGNSDS-CODVIA-1977-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/382>

Area ID: multinational-ICES-VIA

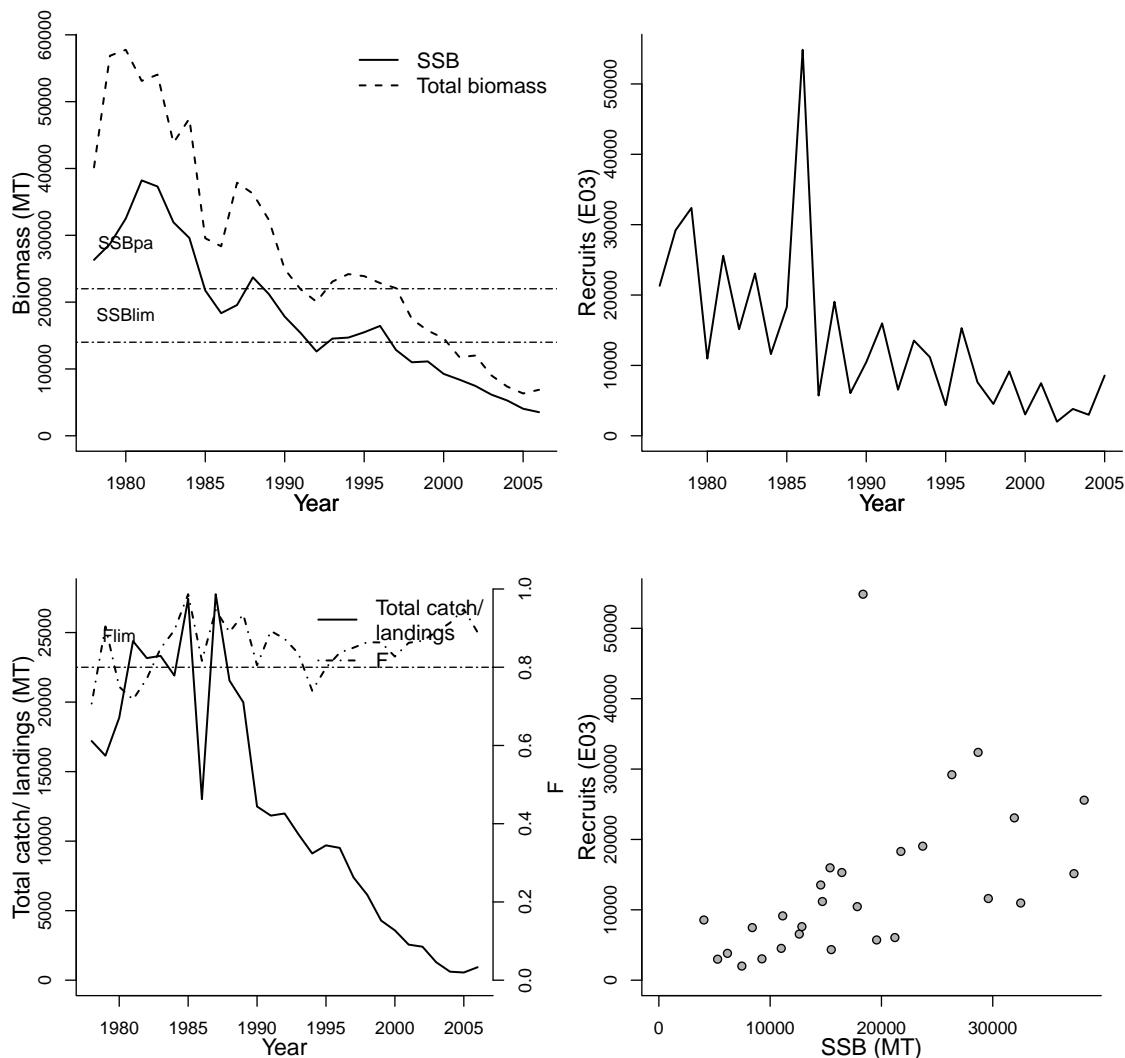
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	State-space catch at age time series analysis
Publication year	2007
Timeseries span	1977-2006
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME	tertiary LME	
24 - Celtic-Biscay Shelf			na	na	
Parameter	Value	Units	Reference points		
A50-yr	2	yr	Parameter	Value	Units
SSB-AGE-yr	2+	yr	SSBlim-MT (SSB)	14000	MT
REC-AGE-yr	1	yr	SSBpa-MT (SSB)	22000	MT
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.6	1/T
M-1/T	0.2	1/T	Fmax-1/T	0.19	1/T
F-AGE-yr-yr	2-5	yr-yr	Flim-1/T (F)	0.8	1/T
SSB-SEX-sex			SSB <sub>2006</sub> /SSB <sub>lim</sub>	0.252	
M			F <sub>2006</sub> /F <sub>lim</sub>	1.111	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1977	1978	1978	1978
Maximum year	2006	2005	2006	2006	2006
Time series minimum	3530.6	2007.4	0.7072	6332.3	552
Time series maximum	38214.9	54850.9	0.9867	57758.8	27758.1
Units	MT	E03	1/T	MT	MT



# Assessment of Irish Sea haddock

## (*Melanogrammus aeglefinus*)

Assessment ID:WGNSDS-HADIS-1972-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/383>

Area ID: multinational-ICES-VIIa

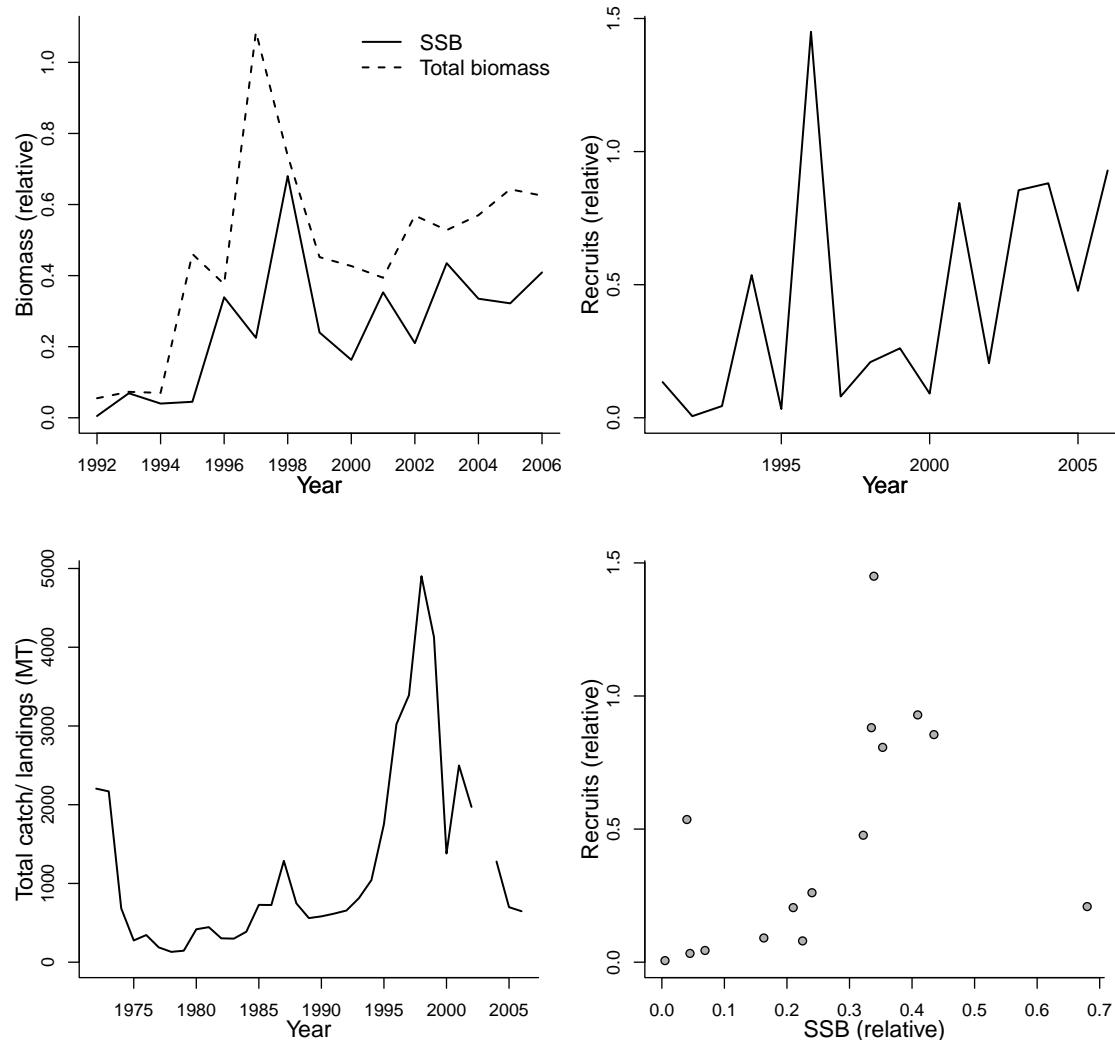
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Survey based stock assessment method
Publication year	2007
Timeseries span	1972-2006
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME		secondary LME		tertiary LME
24 - Celtic-Biscay Shelf		na	na	na
Parameter	Value	Units		
A50-yr	2	yr		
SSB-AGE-yr	2+	yr		
REC-AGE-yr	0	yr	Reference points	
M-1/T	0.2	1/T	Parameter	Value
SSB-SEX-sex			Fpa-1/T (F)	0.5
TB-AGE-yr			Fmax-1/T	0.35
F-AGE-yr				1/T
M				
L50-cm				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1992	1991		1992
Maximum year	2006	2006		2006
Time series minimum	0.005	0.006		0.055
Time series maximum	0.68	1.45		1.086
Units	relative	relative		relative
				MT



# Assessment of West of Scotland haddock

## (*Melanogrammus aeglefinus*)

Assessment ID:WGNSDS-HADVIA-1977-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/384>

Area ID: multinational-ICES-VIA

### General assessment details.

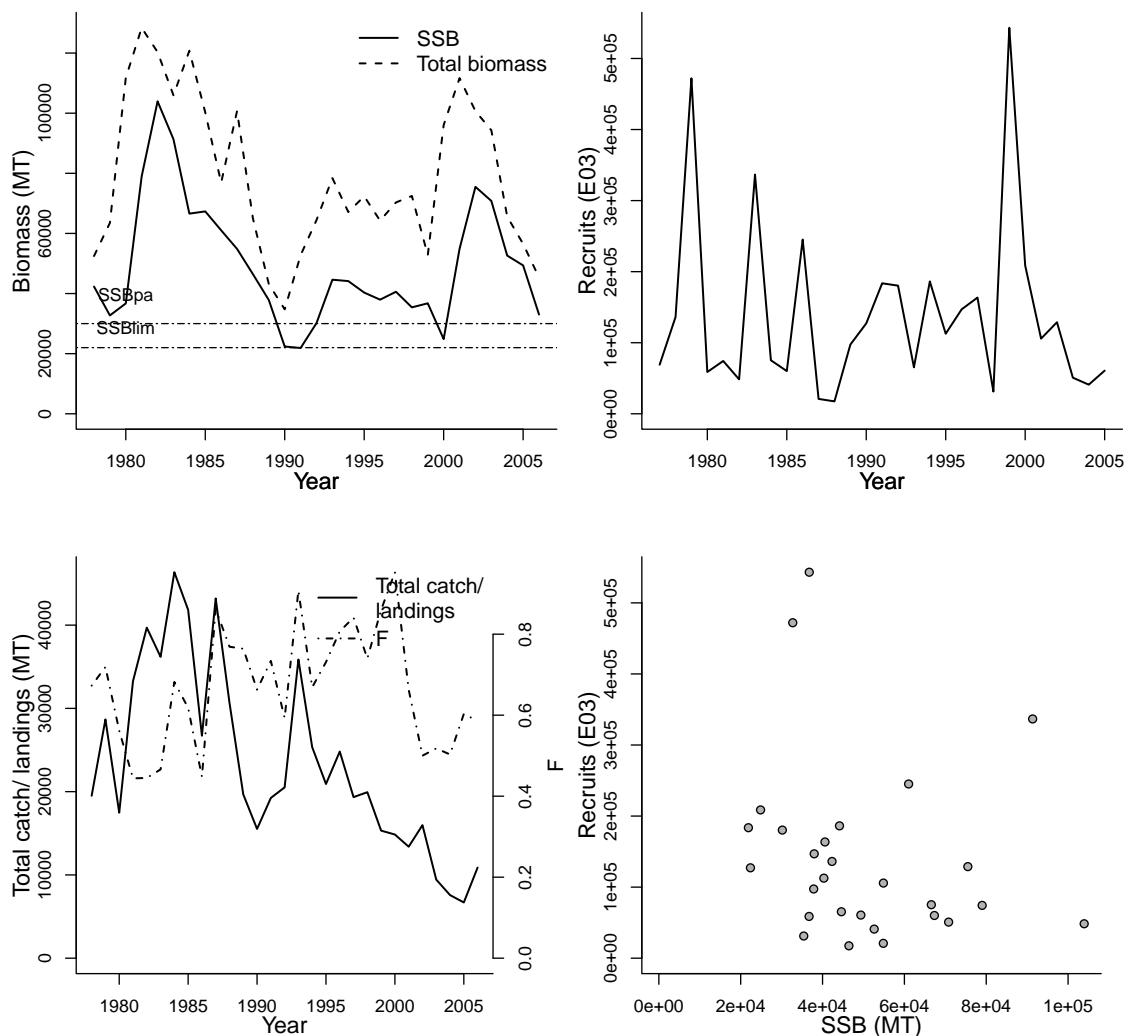
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	State-space catch at age time series analysis
Publication year	2007
Timeseries span	1977-2006
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME		tertiary LME	
24 - Celtic-Biscay Shelf			na		na	
Parameter	Value	Units	Reference points			
A50-yr	2	yr	Parameter	Value	Units	
SSB-AGE-yr	2+	yr	SSBlim-MT (SSB)	22000	MT	
REC-AGE-yr	1	yr	SSBpa-MT (SSB)	30000	MT	
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.5	1/T	
M-1/T	0.2	1/T	F0.1-1/T	0.19	1/T	
F-AGE-yr-yr	2-6	yr-yr	Fmax-1/T	0.21	1/T	
SSB-SEX-sex			SSB <sub>2006</sub> /SSB <sub>lim</sub>	1.501		
M						
L50-cm						

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1978	1977	1978	1978	1978
Maximum year	2006	2005	2006	2006	2006
Time series minimum	21880	17434	0.444	34739	6694
Time series maximum	103933	543159	0.953	128403	46355
Units	MT	E03	1/T	MT	MT



# Assessment of Irish Sea european plaice (*Pleuronectes platessa*)

Assessment ID:WGNSDS-PLAICIS-1962-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/385>

Area ID: multinational-ICES-VIIa

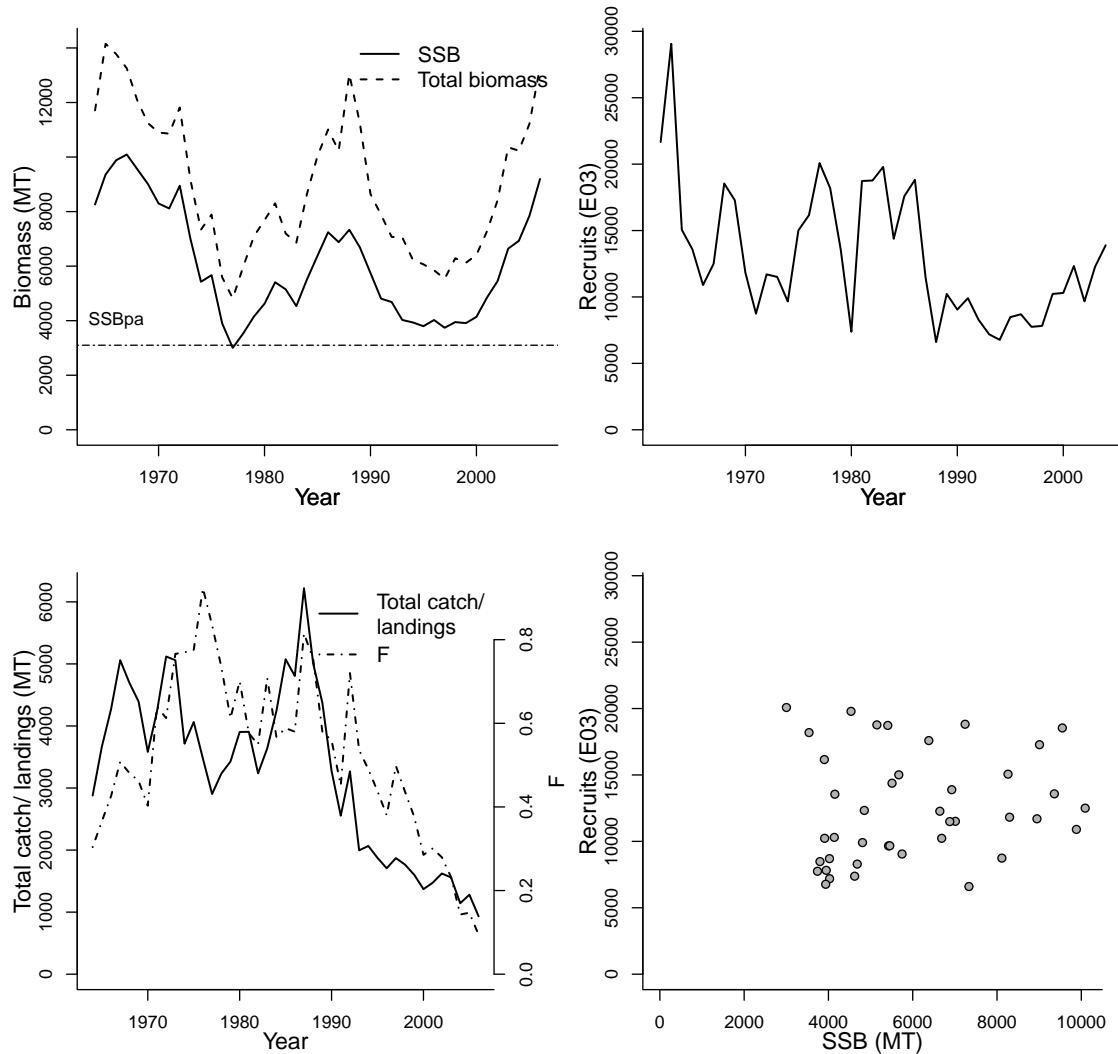
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1962-2006
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME			tertiary LME		
24 - Celtic-Biscay Shelf			na			na		
Parameter	Value	Units	Reference points					
			Parameter	Value	Units			
A50-yr	3	yr						
SSB-AGE-yr	2+	yr						
REC-AGE-yr	2	yr						
TB-AGE-yr	2+	yr	Fmax-1/T	0.36	1/T			
F-AGE-yr-yr	3-6	yr-yr	F0.1-1/T	0.13	1/T			
M-1/T	0.12	1/T	Fpa-1/T (F)	0.45	1/T			
SSB-SEX-sex			SSBpa-MT (SSB)	3100	MT			
M								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964	1962	1964	1964	1964
Maximum year	2006	2004	2006	2006	2006
Time series minimum	3003	6600	0.0941	4819	932
Time series maximum	10092	29060	0.9231	14152	6220
Units	MT	E03	1/T	MT	MT



# Assessment of Irish Sea common european sole (*Solea vulgaris*)

Assessment ID:WGNSDS-SOLEIS-1968-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/386>

Area ID: multinational-ICES-VIIa

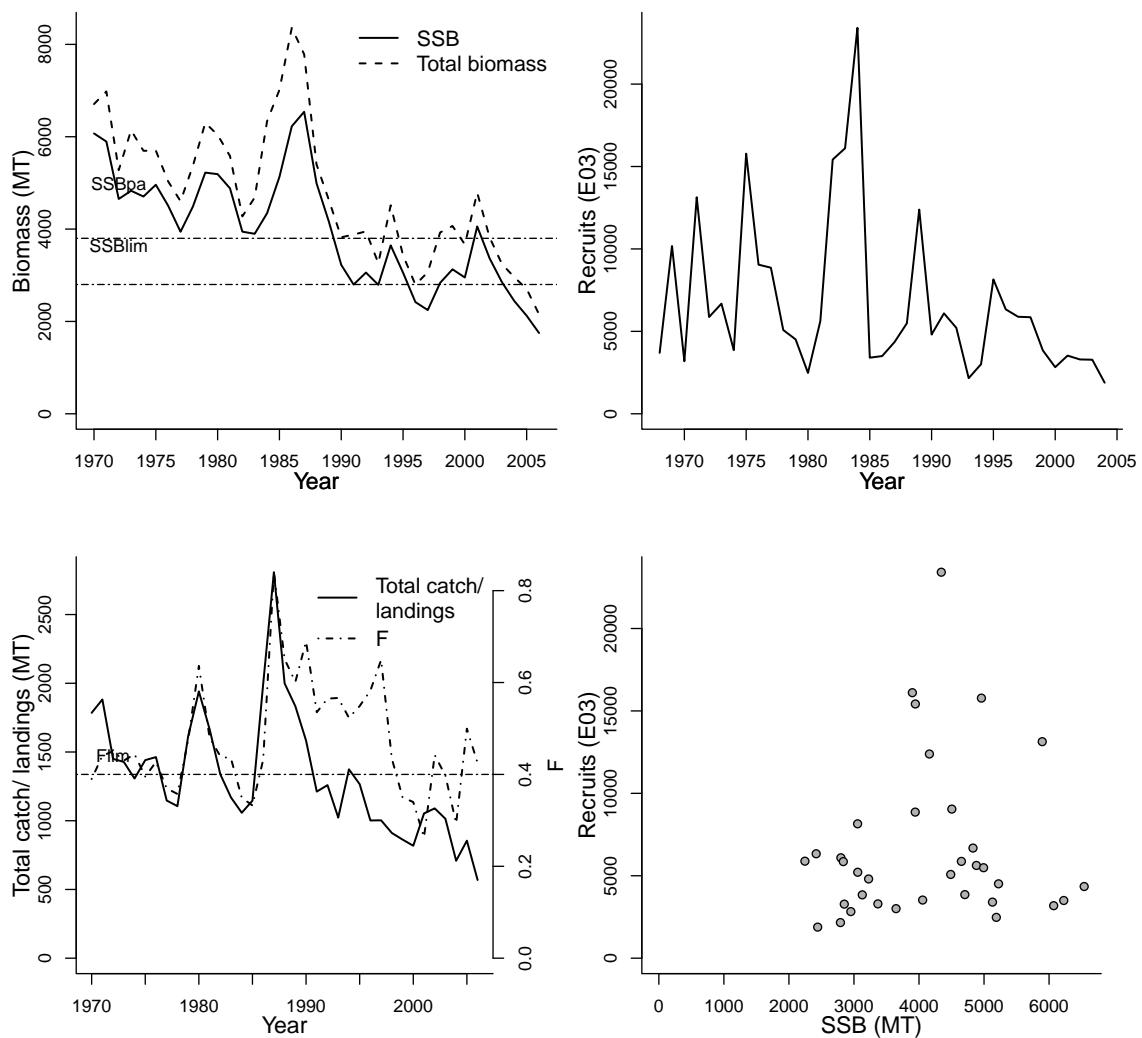
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1968-2006
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME		tertiary LME
24 - Celtic-Biscay Shelf			na	na	
Parameter	Value	Units	Reference points		
A50-yr	2-3	yr	Parameter	Value	Units
SSB-AGE-yr	2+	yr	Fmax-1/T	0.51	1/T
REC-AGE-yr	2	yr	F0.1-1/T	0.18	1/T
TB-AGE-yr	2+	yr	Fpa-1/T (F)	0.3	1/T
F-AGE-yr-yr	4-7	yr-yr	SSBpa-MT (SSB)	3800	MT
M-1/T	0.1	1/T	SSBlim-MT (SSB)	2800	MT
SSB-SEX-sex			Flim-1/T (F)	0.4	1/T
M			SSB <sub>2006</sub> /SSB <sub>lim</sub>	0.625	
L50-cm			F <sub>2006</sub> /F <sub>lim</sub>	1.062	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1968	1970	1970	1970
Maximum year	2006	2004	2006	2006	2006
Time series minimum	1750	1886	0.263	2155	569
Time series maximum	6540	23415	0.8401	8359	2808
Units	MT	E03	1/T	MT	MT



# Assessment of West of Scotland whiting

## (*Merlangius merlangus*)

Assessment ID:WGNSDS-WHITVIA-1984-2007-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/387>

Area ID: multinational-ICES-VIA

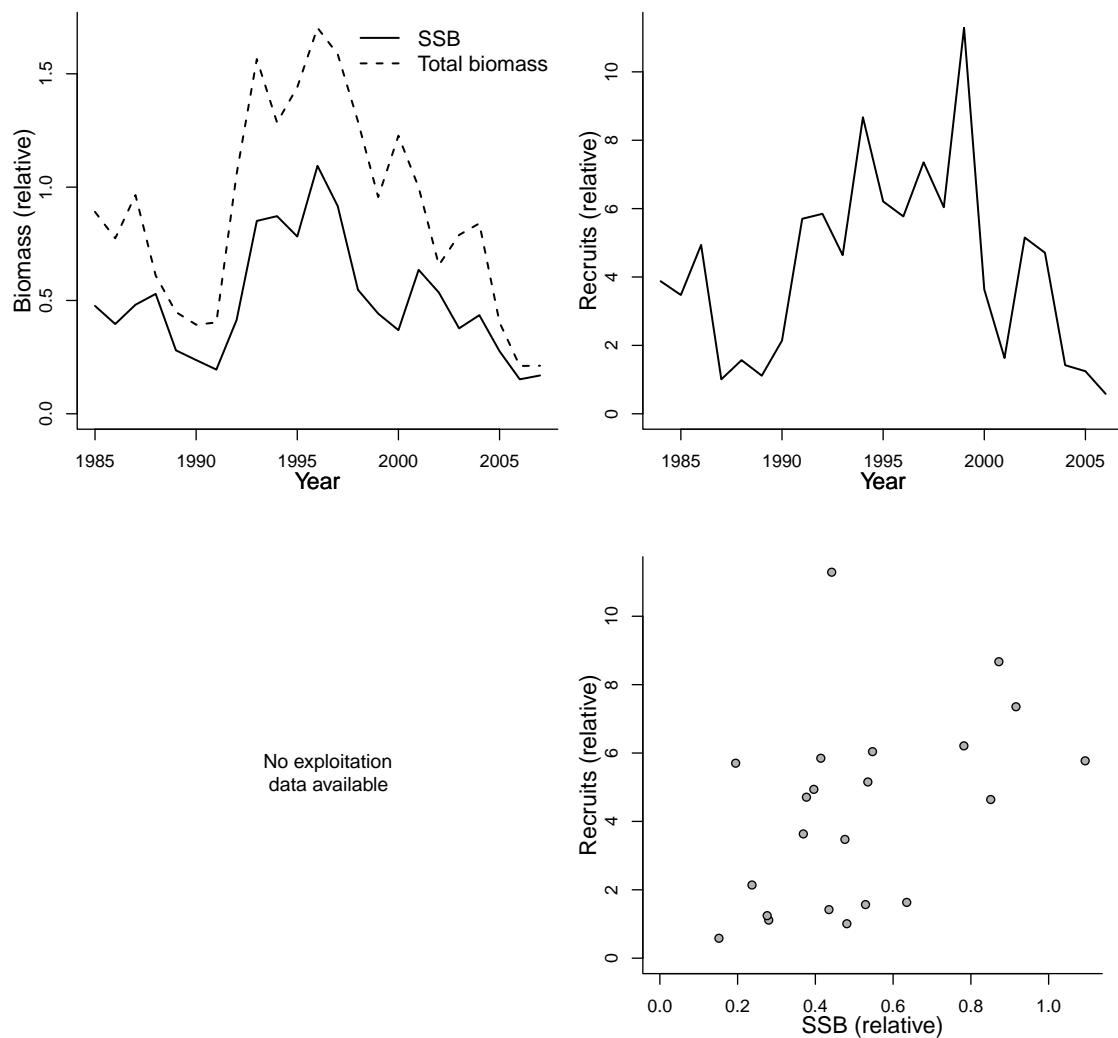
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Survey based stock assessment method
Publication year	2007
Timeseries span	1984-2007
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME		tertiary LME	
24 - Celtic-Biscay Shelf			na		na	
Parameter	Value	Units	Reference points			
A50-yr	2	yr				
SSB-AGE-yr	2+	yr				
REC-AGE-yr	1	yr				
M-1/T	0.2	1/T				
TB-AGE-yr	1+	yr	Parameter	Value	Units	
SSB-SEX-sex						
F-AGE-yr						
M						
L50-cm						

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1985	1984		1985
Maximum year	2007	2006		2007
Time series minimum	0.152	0.583		0.211
Time series maximum	1.094	11.288		1.703
Units	relative	relative		relative



# Assessment of North Sea atlantic cod (*Gadus morhua*)

Assessment ID:WGNSSK-CODNS-1962-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/398>

Area ID: multinational-ICES-IV

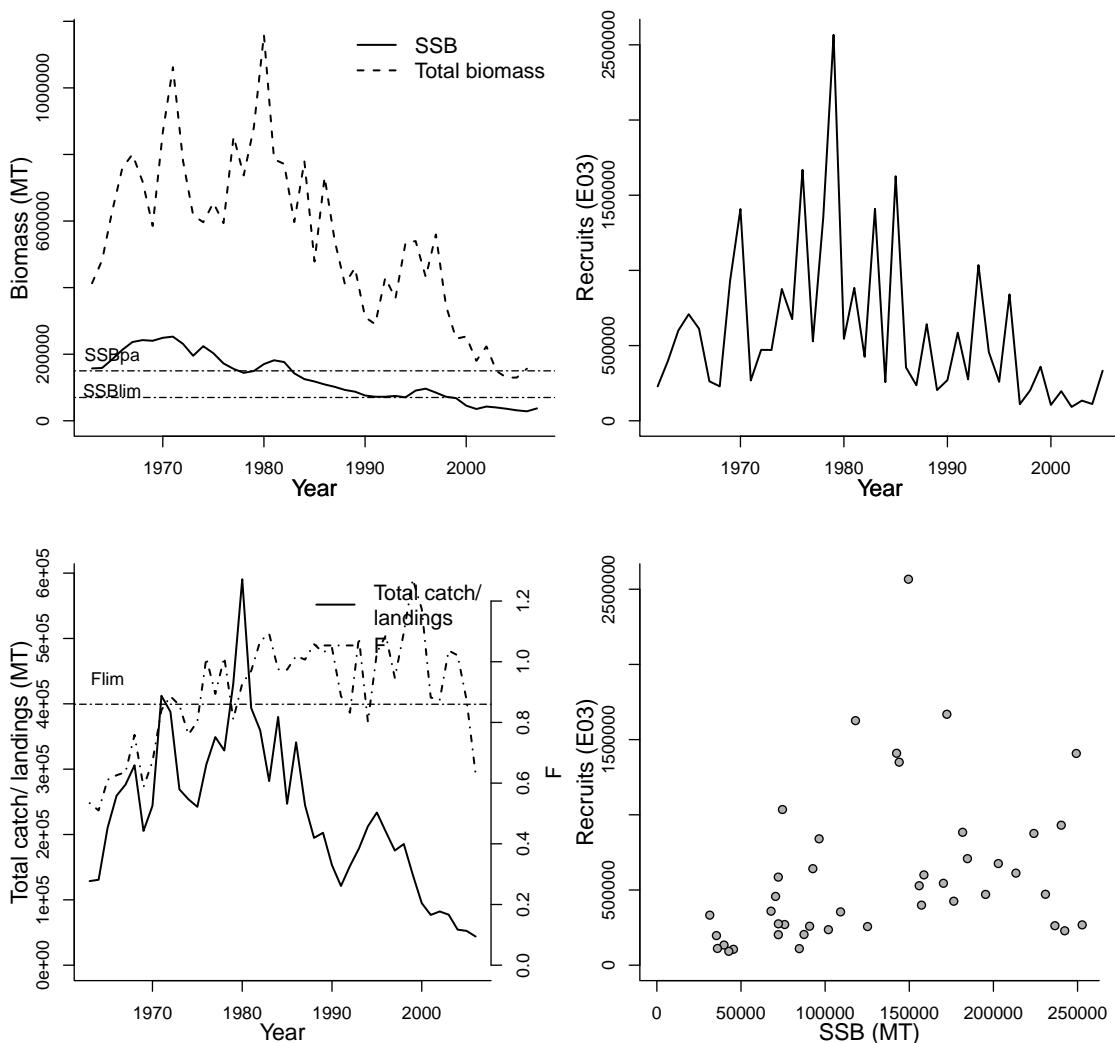
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	The ADAPT approach with year effects in a catch multiplier
Publication year	2007
Timeseries span	1962-2007
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-11
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
F-AGE-yr-yr	2-4	yr-yr	Flim-1/T (F)	0.86	1/T
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.65	1/T
A50-yr	3-4	yr	SSBlim-MT (SSB)	70000	MT
M-1/T	0.2 for 4+	1/T	SSBpa-MT (SSB)	150000	MT
REC-AGE			$SSB_{2007}/SSB_{lim}$	0.531	
SSB-AGE-yr			$F_{2006}/F_{lim}$	0.733	
SSB-SEX-sex					
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1963	1962	1963	1963	1963
Maximum year	2007	2005	2006	2006	2006
Time series minimum	28481	92257	0.51	129581	43856
Time series maximum	252747	2566638	1.272	1159434	590678
Units	MT	E03	1/T	MT	MT



# Assessment of IIIa and North Sea haddock

## (*Melanogrammus aeglefinus*)

Assessment ID:WGNSSK-HADNS-IIIa-1963-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/388>

Area ID: multinational-ICES-IIIa-IV

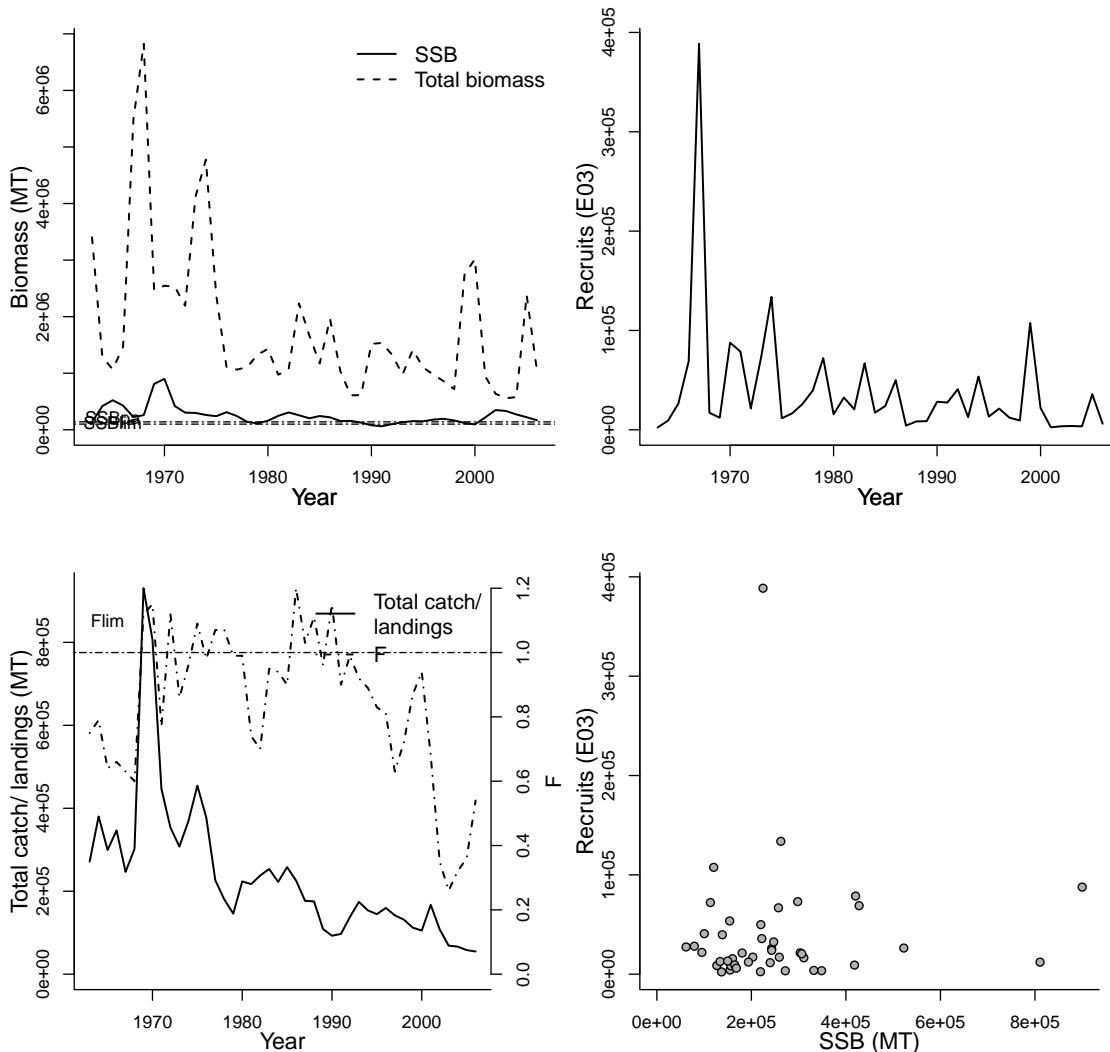
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1963-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
22 - North Sea	na	na			
A50-yr	2-3	yr			
SSB-AGE-yr	1+	yr	SSBlim-MT (SSB)	100000	MT
REC-AGE-yr	0	yr	SSBpa-MT (SSB)	140000	MT
TB-AGE-yr	0+	yr	Fpa-1/T (F)	0.7	1/T
M-1/T	Age specific	1/T	Flim-1/T (F)	1	1/T
F-AGE-yr-yr	2-4	yr-yr	SSB <sub>2006</sub> /SSB <sub>lim</sub>	1.682	
SSB-SEX-sex			F <sub>2006</sub> /F <sub>lim</sub>	0.540	
M					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1963	1963	1963	1963
Maximum year	2006	2006	2006	2006
Time series minimum	61772	2316.936	0.26	558318
Time series maximum	899883	388564.67	1.2	6823944
Units	MT	E03	1/T	MT



# Assessment of Rockall Bank haddock

## *(Melanogrammus aeglefinus)*

Assessment ID:WGNSSK-HADROCK-1990-2007-JENNINGS

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/28>

Area ID: multinational-ICES-VIb

### General assessment details.

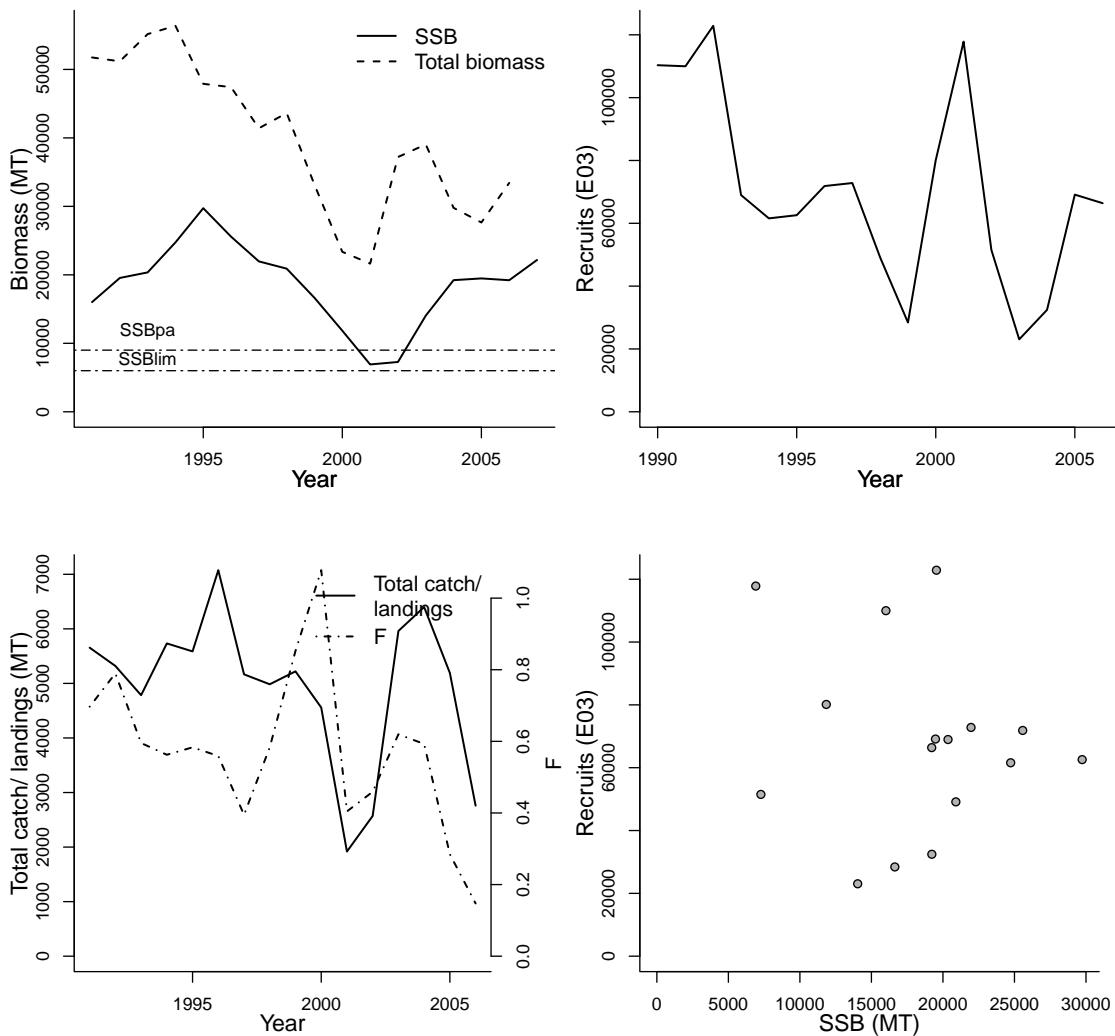
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1990-2007
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-20
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME			secondary LME			tertiary LME				
24 - Celtic-Biscay Shelf			na			na				
Parameter	Value	Units	Reference points			Parameter	Value	Units		
SSB-AGE-yr	2.5	yr				Fpa-1/T (F)	0.4	1/T		
REC-AGE-yr	1	yr				SSBlim-MT (SSB)	6000	MT		
F-AGE-yr-yr	2 to 5	yr-yr				SSBpa-MT (SSB)	9000	MT		
TB-AGE-yr	1+	yr				SSB <sub>2007</sub> /SSB <sub>lim</sub>	3.695			
A50-yr	2.5	yr								
M-1/T	0.2	1/T								
SSB-SEX-sex										
M										
L50-cm										

## Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1991	1990	1991	1991	1991
Maximum year	2007	2006	2006	2006	2006
Time series minimum	6913	23055	0.1473	21639	1918
Time series maximum	29734	122870	1.07795	56370	7075
Units	MT	E03	1/T	MT	MT



# Assessment of North Sea norway pout (*Trisopterus esmarkii*)

Assessment ID:WGNSSK-NPOUTNS-1983-2007-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/389>

Area ID: multinational-ICES-IV

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1983-2007
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-13
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

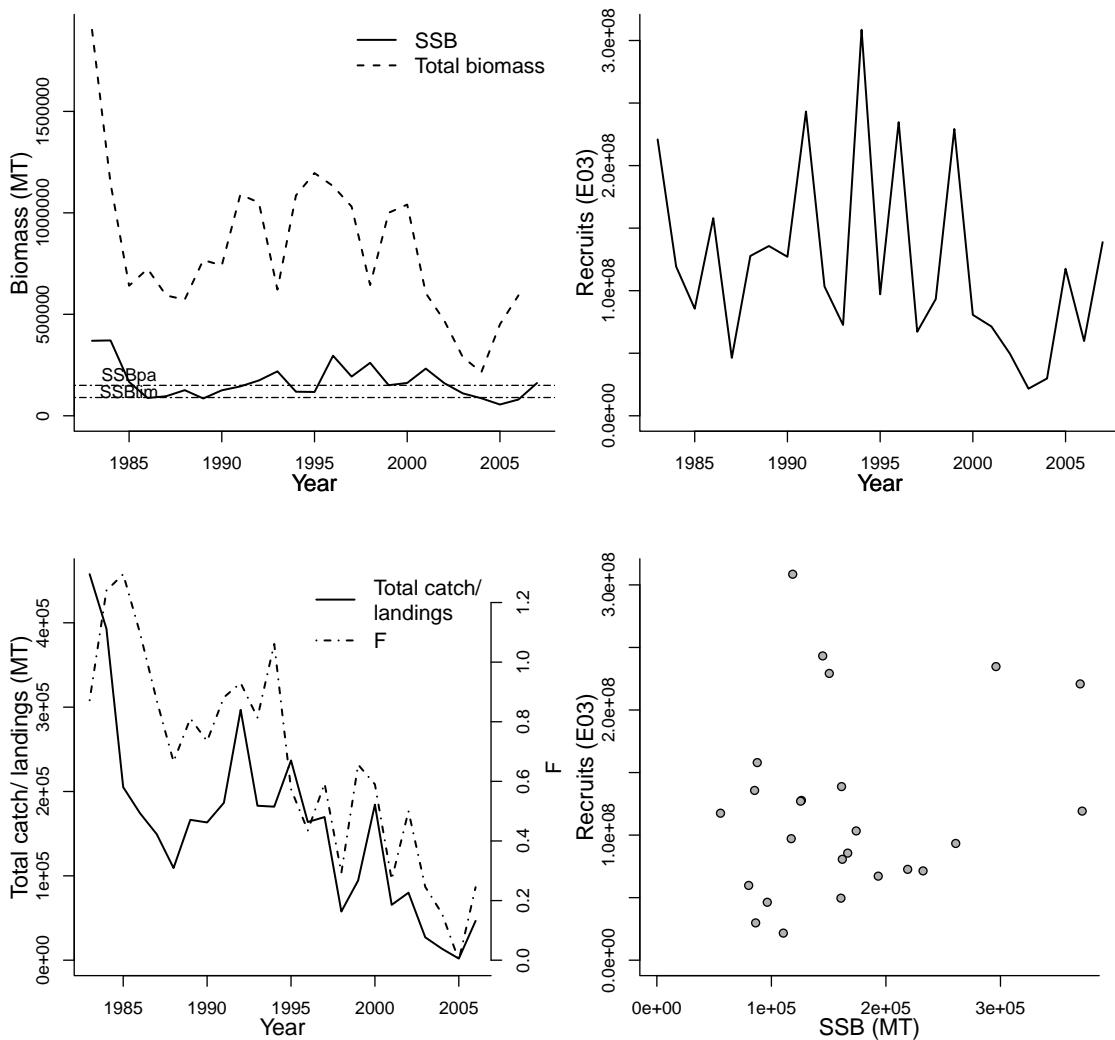
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units
A50-yr	1-2	yr
SSB-AGE-yr	1+	yr
REC-AGE-yr	0	yr
TB-AGE-yr	0+	yr
M-1/T	0.4	1/T
F-AGE-yr-yr	1-2	yr-yr
SSB-SEX-sex		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSBlim-MT (SSB)	90000	MT
SSBpa-MT (SSB)	150000	MT
$SSB_{2007}/SSB_{lim}$	1.792	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1983	1983	1983	1983
Maximum year	2007	2007	2006	2006
Time series minimum	55568	21662000	0	215118
Time series maximum	371336	308548000	1.295	1902065
Units	MT	E03	1/T	MT



# Assessment of Eastern English Channel european plaice (*Pleuronectes platessa*)

Assessment ID:WGNSSK-PLAIC7d-1979-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/390>

Area ID: multinational-ICES-VIId

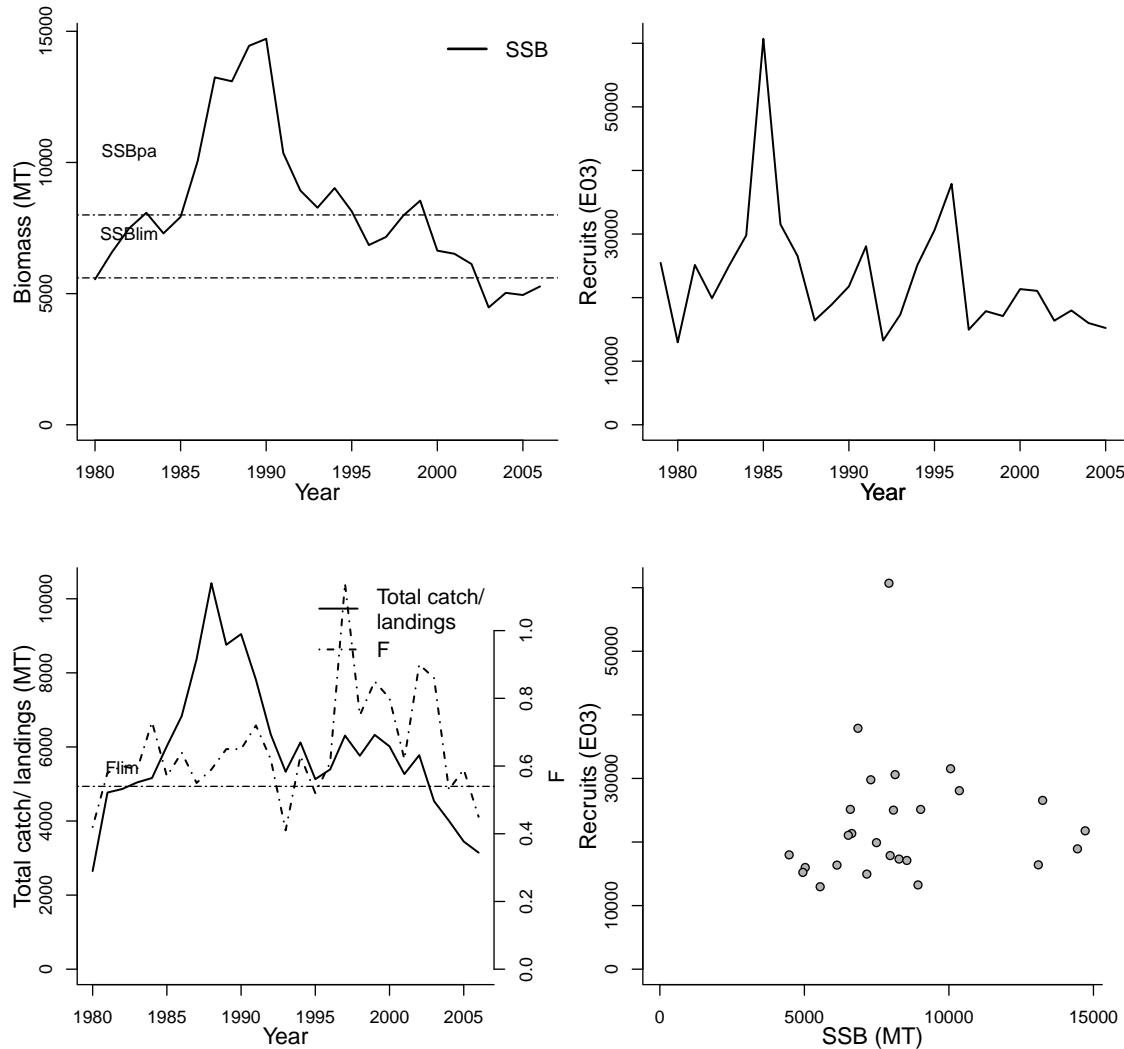
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1979-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-13
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME	tertiary LME	
24 - Celtic-Biscay Shelf			na	na	
Parameter	Value	Units	Reference points		
A50-yr	3	yr	Parameter	Value	Units
SSB-AGE-yr	2+	yr	SSBlim-MT (SSB)	5600	MT
REC-AGE-yr	1	yr	SSBpa-MT (SSB)	8000	MT
TB-AGE-yr	1+	yr	Flim-1/T (F)	0.54	1/T
M-1/T	0.1	1/T	Fpa-1/T (F)	0.45	1/T
F-AGE-yr-yr	3-6	yr-yr	SSB <sub>2006</sub> /SSB <sub>lim</sub>	0.942	
SSB-SEX-sex			F <sub>2006</sub> /F <sub>lim</sub>	0.833	
M					
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1980	1979	1980	1980
Maximum year	2006	2005	2006	2006
Time series minimum	4473	12969	0.41	2650
Time series maximum	14714	60704	1.14	10420
Units	MT	E03	1/T	MT



# Assessment of Kattegat and Skagerrak european plaice (*Pleuronectes platessa*)

Assessment ID:WGNSSK-PLAICIIa-1976-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/391>

Area ID: multinational-ICES-IIa

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1976-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-13
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

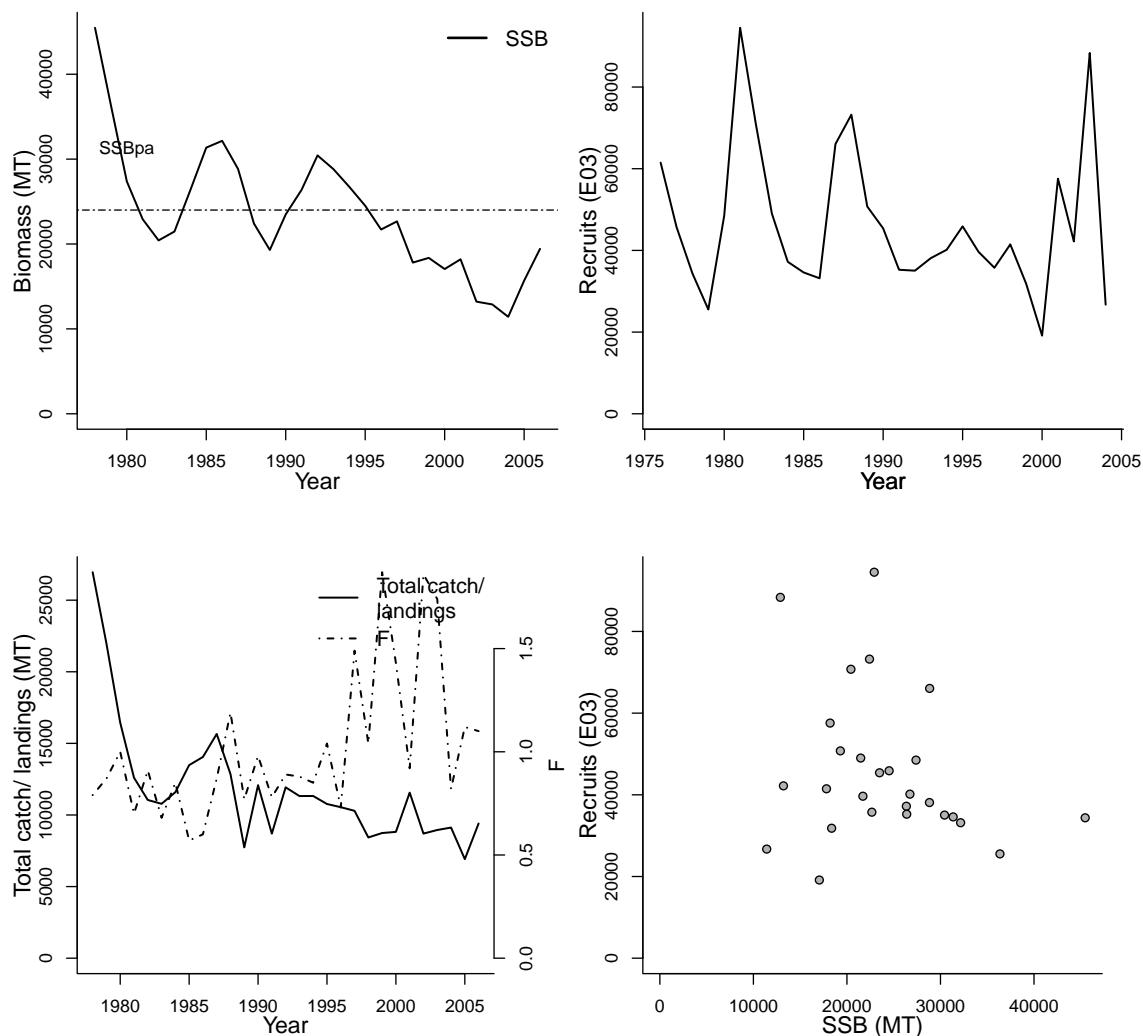
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units
A50-yr	2	yr
SSB-AGE-yr	2+	yr
REC-AGE-yr	2	yr
M-1/T	0.1	1/T
F-AGE-yr-yr	4-8	yr-yr
TB-AGE-yr	2+	yr
SSB-SEX-sex		
M		
L50-cm		

Parameter	Value	Units
SSBpa-MT (SSB)	24000	MT
Fpa-1/T (F)	0.73	1/T

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1978	1976	1978	1978
Maximum year	2006	2004	2006	2006
Time series minimum	11423	19141	0.57	6916
Time series maximum	45470	94503	1.87	26953
Units	MT	E03	1/T	MT



# Assessment of North Sea european plaice (*Pleuronectes platessa*)

Assessment ID:WGNSSK-PLAICNS-1956-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/392>

Area ID: multinational-ICES-IV

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1956-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-13
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

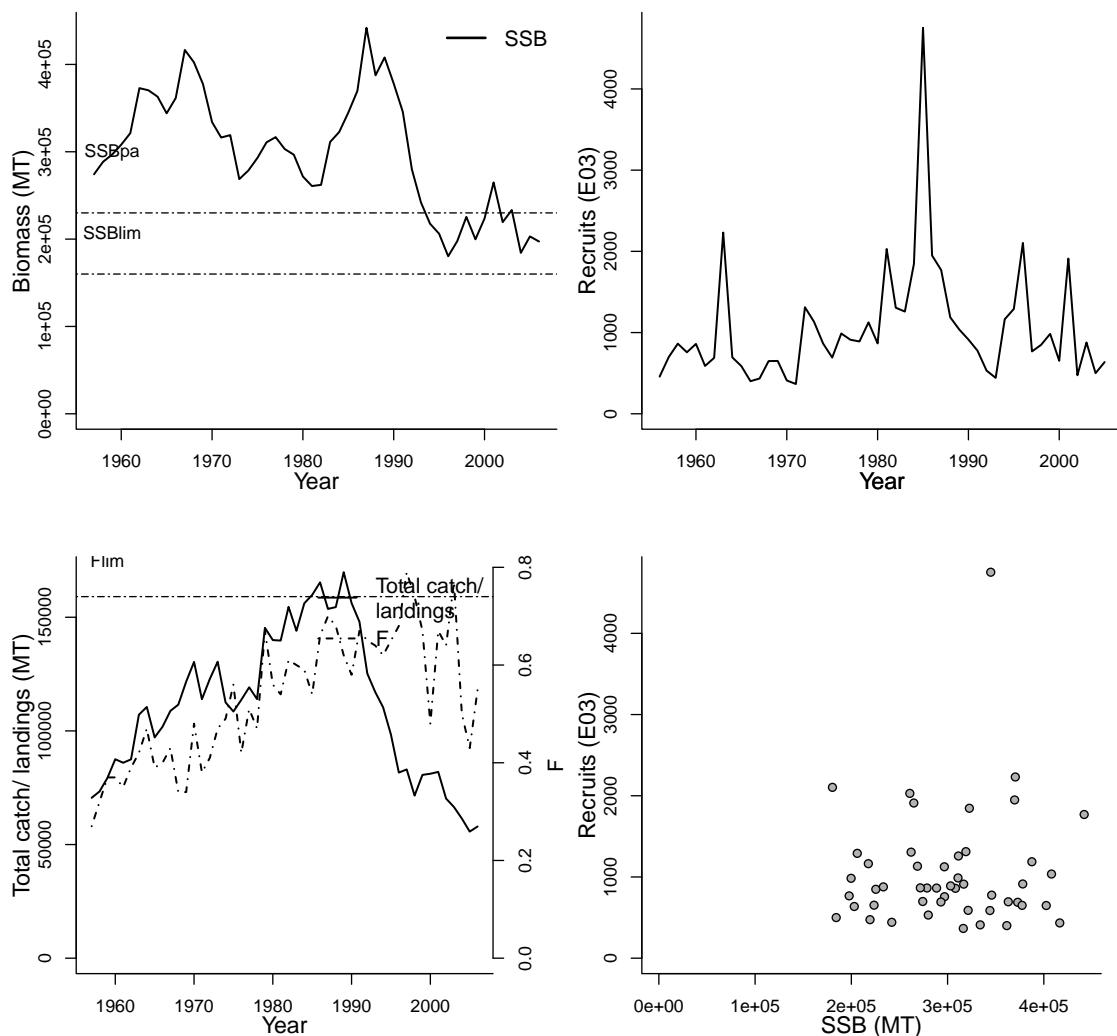
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units
A50-yr	2-3	yr
SSB-AGE-yr	2+	yr
REC-AGE-yr	1	yr
M-1/T	0.1	1/T
F-AGE-yr-yr	2-6	yr-yr
TB-AGE-yr	1+	yr
SSB-SEX-sex		
M		
L50-cm		

Parameter	Reference points	Value	Units
SSBlim-MT (SSB)		160000	MT
SSBpa-MT (SSB)		230000	MT
Fpa-1/T (F)		0.6	1/T
Flim-1/T (F)		0.74	1/T
FO.1-1/T		0.17	1/T
$SSB_{2006}/SSB_{lim}$		1.233	
$F_{2006}/F_{lim}$		0.743	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1957	1956	1957	1957
Maximum year	2006	2005	2006	2006
Time series minimum	180384	366.601	0.27	55700
Time series maximum	441943	4752.726	0.79	169818
Units	MT	E03	1/T	MT



# Assessment of IIIa, VI and North Sea pollock

## *(Pollachius virens)*

Assessment ID:WGNSSK-POLLNS-VI-IIIa-1964-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/393>

Area ID: multinational-ICES-IIIa-IV-VI

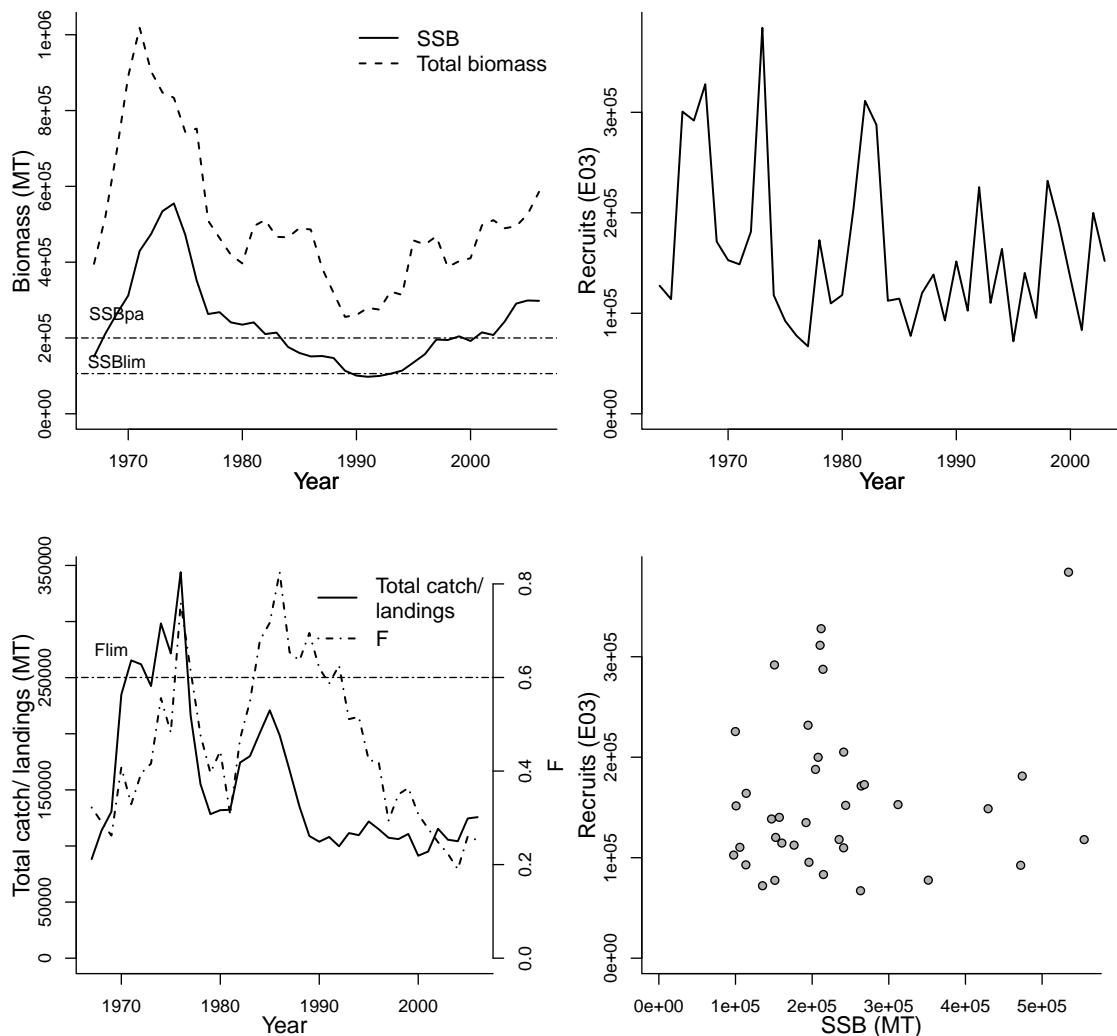
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1964-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME			tertiary LME		
22 - North Sea			24 - Celtic-Biscay Shelf			na		
Parameter	Value	Units	Reference points			Parameter	Value	Units
A50-yr	4-5	yr	SSBlim-MT (SSB)	106000	MT			
SSB-AGE-yr	4+	yr	SSBpa-MT (SSB)	200000	MT			
REC-AGE-yr	3	yr	Fpa-1/T (F)	0.4	1/T			
TB-AGE-yr	3+	yr	F0.1-1/T	0.11	1/T			
M-1/T	0.2	1/T	Fmax-1/T	0.22	1/T			
F-AGE-yr-yr	3-6	yr-yr	Flim-1/T (F)	0.6	1/T			
SSB-SEX-sex			SSB <sub>2006</sub> /SSB <sub>lim</sub>	2.811				
M			F <sub>2006</sub> /F <sub>lim</sub>	0.420				
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1967	1964	1967	1967
Maximum year	2006	2003	2006	2006
Time series minimum	97609	67123	0.19	255620
Time series maximum	554904	384108	0.825	1018303
Units	MT	E03	1/T	MT



# Assessment of North Sea sand lance (*Ammodytes marinus*)

Assessment ID:WGNSSK-SEELNS-1983-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/394>

Area ID: multinational-ICES-IV

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1983-2007
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-12
Date last loaded	2011-03-02
QA/QC complete	YES
Date approved	2009-06-10

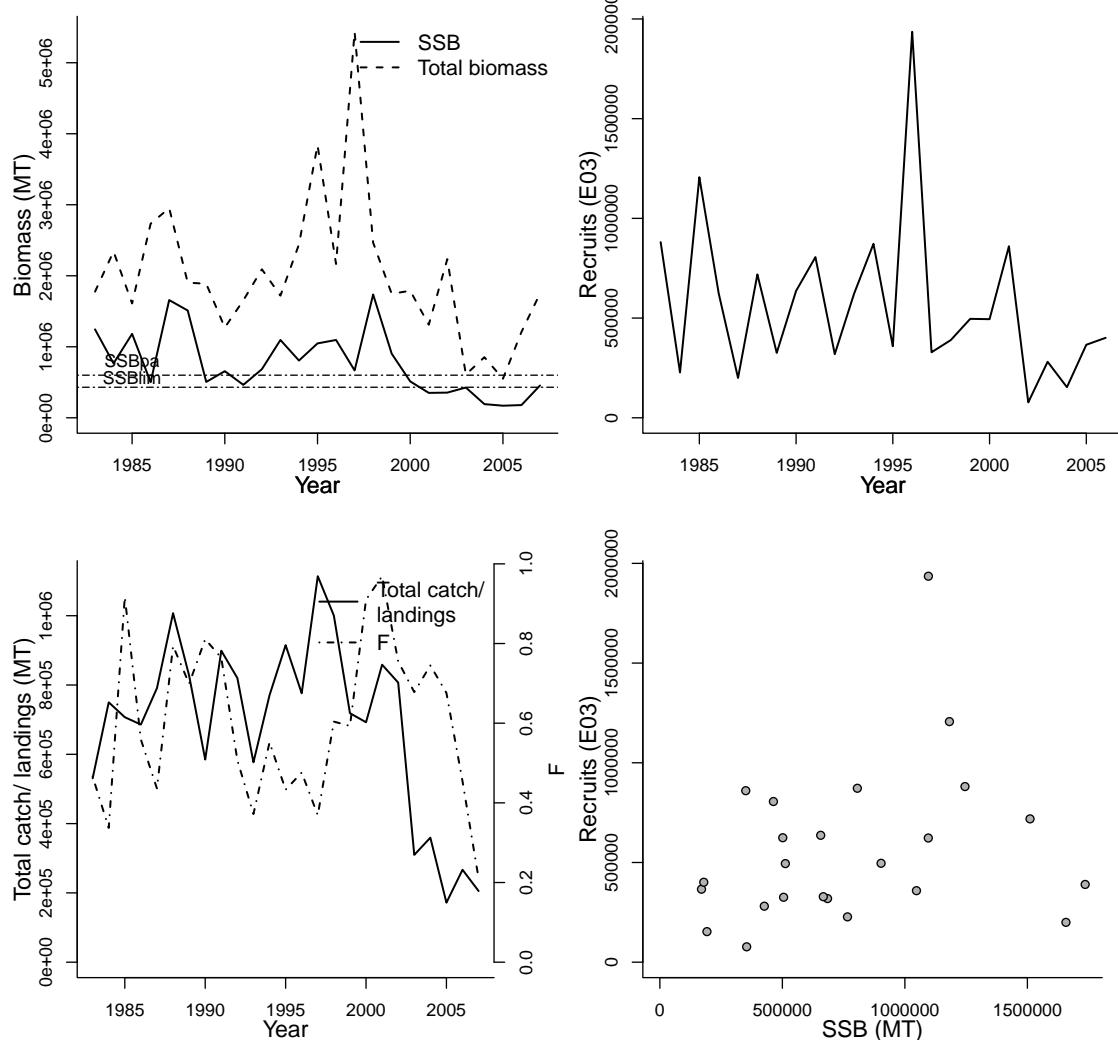
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			22 - North Sea	na	na
A50-yr	2	yr			
SSB-AGE-yr	2+	yr			
REC-AGE-yr	0	yr			
M-1/T	0.2 for 1+	1/T			
F-AGE-yr-yr	1-2	yr-yr			
TB-AGE-yr	0+	yr			
SSB-SEX-sex					
M					
L50-cm					

Parameter	Value	Units	Reference points
SSBlim-MT (SSB)	430000	MT	
SSBpa-MT (SSB)	600000	MT	
$SSB_{2007}/SSB_{lim}$	1.057		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1983	1983	1983	1983
Maximum year	2007	2006	2007	2007
Time series minimum	169965	77203	0.21	549532
Time series maximum	1735847	1935600	0.969	5435685
Units	MT	E03	1/T	MT



# Assessment of North Sea common european sole (*Solea vulgaris*)

Assessment ID:WGNSSK-SOLENS-1956-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/395>

Area ID: multinational-ICES-IV

## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1956-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-13
Date last loaded	2011-03-02
QA/QC complete	YES
Date approved	2009-06-10

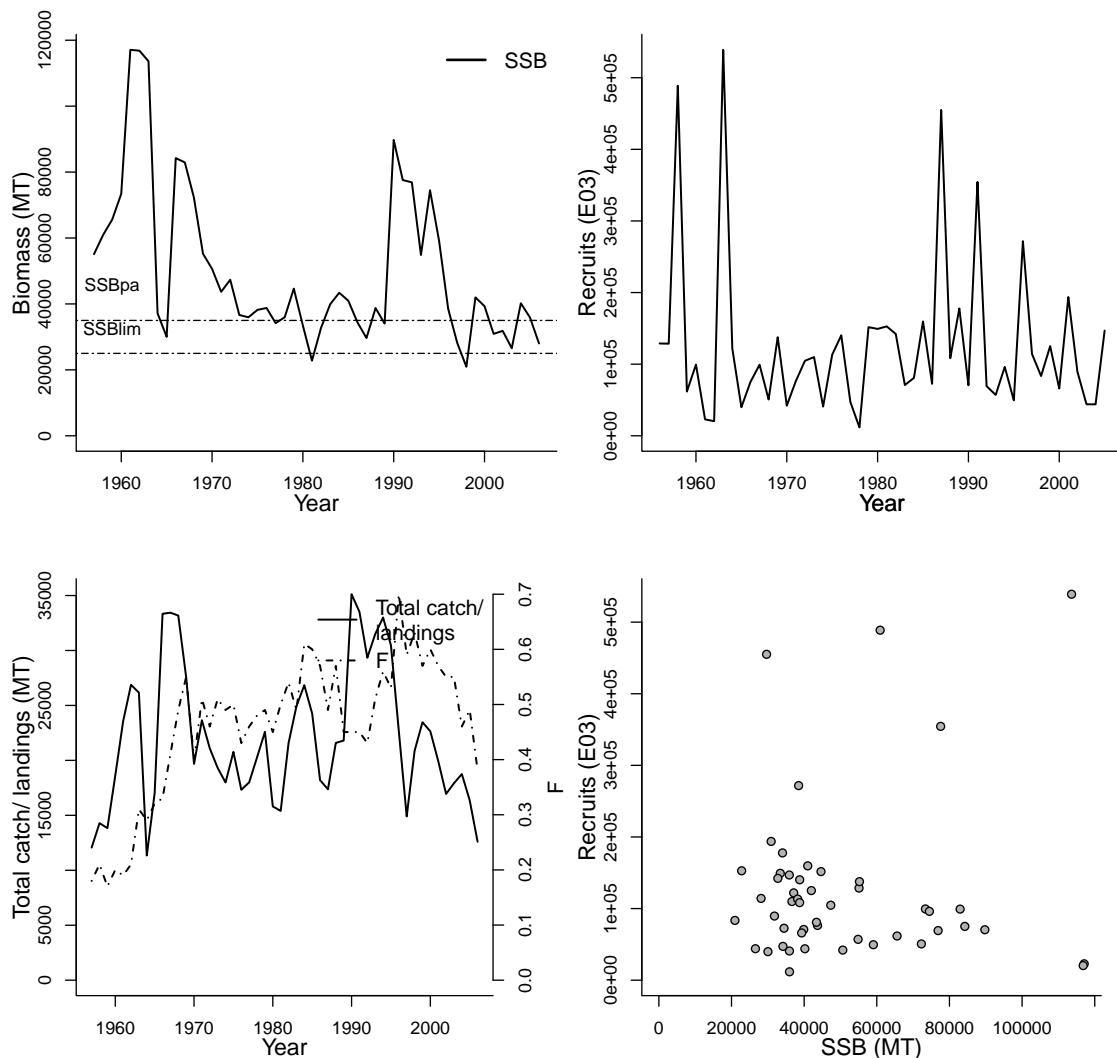
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units
A50-yr	3	yr
SSB-AGE-yr	3+	yr
REC-AGE-yr	1	yr
M-1/T	0.1	1/T
F-AGE-yr-yr	2-6	yr-yr
TB-AGE-yr	1+	yr
SSB-SEX-sex		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSBlim-MT (SSB)	25000	MT
SSBpa-MT (SSB)	35000	MT
Fpa-1/T (F)	0.4	1/T
F0.1-1/T	0.119	1/T
Fmax-1/T	0.51	1/T
$SSB_{2006}/SSB_{lim}$	1.120	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1957	1956	1957		1957
Maximum year	2006	2005	2006		2006
Time series minimum	20945	11727	0.17		11342
Time series maximum	117094	538987	0.7		35120
Units	MT	E03	1/T		MT



# Assessment of Eastern English Channel common european sole (*Solea vulgaris*)

Assessment ID:WGNSSK-SOLEVIIId-1981-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/396>

Area ID: multinational-ICES-VIIId

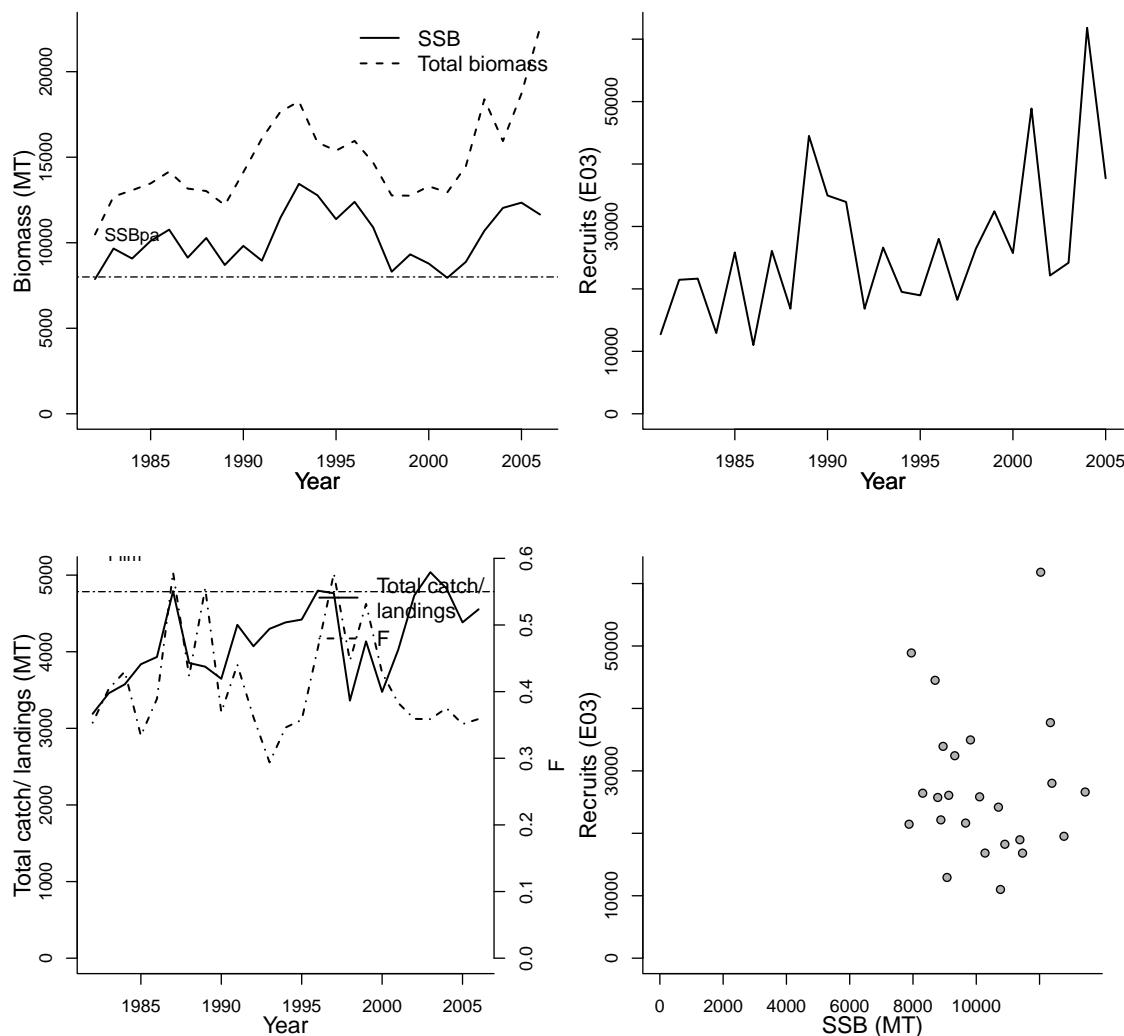
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1981-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-13
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME		tertiary LME	
24 - Celtic-Biscay Shelf			na		na	
Parameter	Value	Units	Reference points			
A50-yr	3	yr	Parameter	Value	Units	
SSB-AGE-yr	3+	yr	SSBpa-MT (SSB)	8000	MT	
REC-AGE-yr	1	yr	Fpa-1/T (F)	0.4	1/T	
TB-AGE-yr	1+	yr	Flim-1/T (F)	0.55	1/T	
M-1/T	0.1	1/T	F0.1-1/T	0.13	1/T	
F-AGE-yr-yr	3-8	yr-yr	Fmax-1/T	0.3	1/T	
SSB-SEX-sex			$F_{2006}/F_{lim}$	0.653		
M						
L50-cm						

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1982	1981	1982	1982	1982
Maximum year	2006	2005	2006	2006	2006
Time series minimum	7876	11007	0.2938	10484	3190
Time series maximum	13442	61817	0.5792	22566	5038
Units	MT	E03	1/T	MT	MT



# Assessment of IIIa, VIId and North Sea whiting

## *(Merlangius merlangus)*

Assessment ID: WGNSSK-WHITNS-VIIId-IIIa-1979-2006-MINTO

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/397>

Area ID: multinational-ICES-IIIa-IV-VIIId

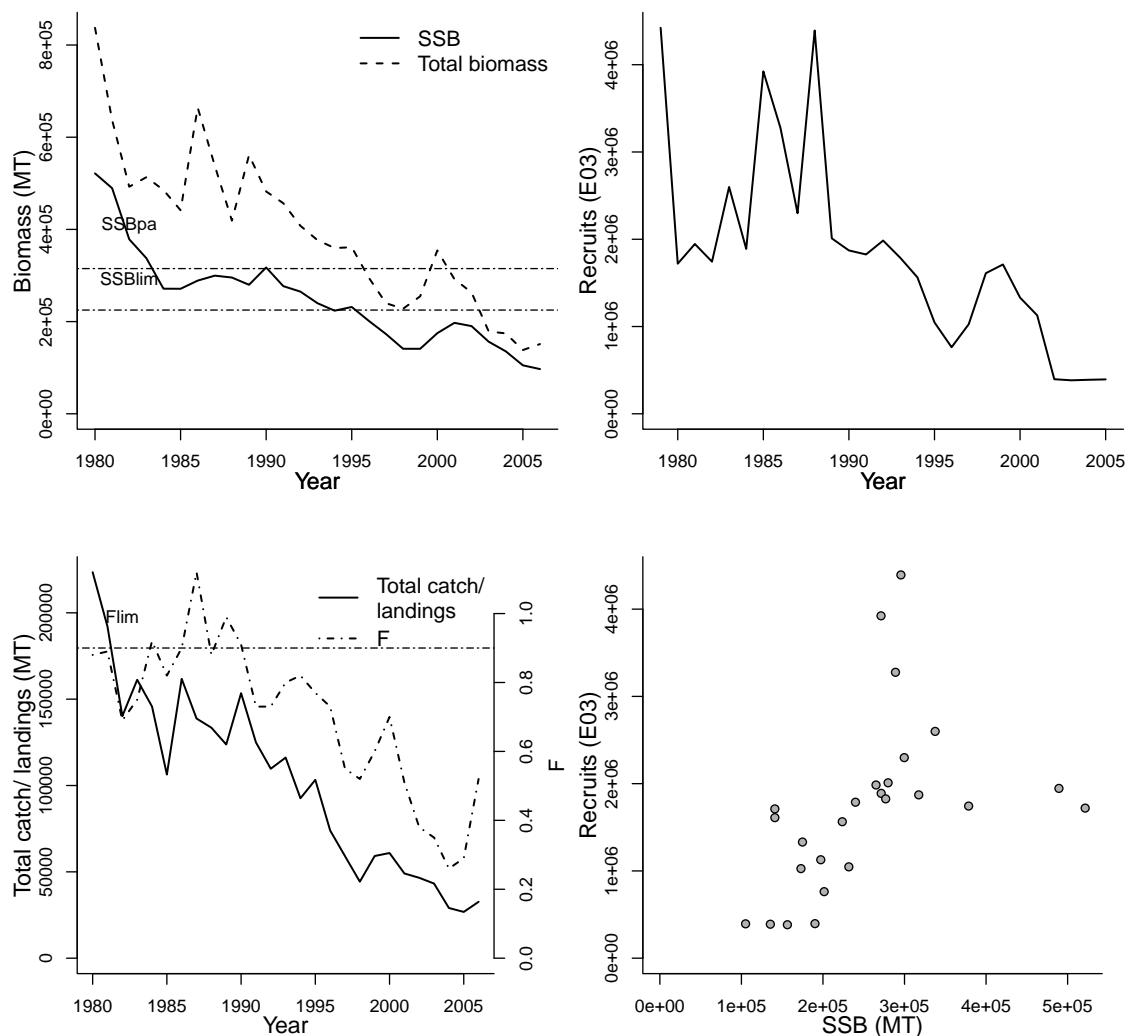
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1979-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

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

primary LME			secondary LME			tertiary LME		
22 - North Sea			24 - Celtic-Biscay Shelf			na		
Parameter	Value	Units		Parameter	Reference points		Value	Units
A50-yr	1	yr		SSBlim-MT (SSB)	225000	MT		
SSB-AGE-yr	1+	yr		SSBpa-MT (SSB)	315000	MT		
REC-AGE-yr	1	yr		Fpa-1/T (F)	0.65	1/T		
TB-AGE-yr	1+	yr		F0.1-1/T	0.1	1/T		
M-1/T	Age specific	1/T		Fmax-1/T	0.19	1/T		
F-AGE-yr-yr	2-6	yr-yr		Flim-1/T (F)	0.9	1/T		
SSB-SEX-sex				SSB <sub>2006</sub> /SSB <sub>lim</sub>	0.431			
M				F <sub>2006</sub> /F <sub>lim</sub>	0.578			
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1980	1979	1980	1980
Maximum year	2006	2005	2006	2006
Time series minimum	96967	383532	0.26	138290
Time series maximum	521533	4423048	1.12	837376
Units	MT	E03	1/T	MT



# Assessment of ICES VIIb-k haddock

## (*Melanogrammus aeglefinus*)

Assessment ID:WGSSDS-HADVIIb-k-1993-2006-JENNINGS

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/46>

Area ID: multinational-ICES-VIIb-k

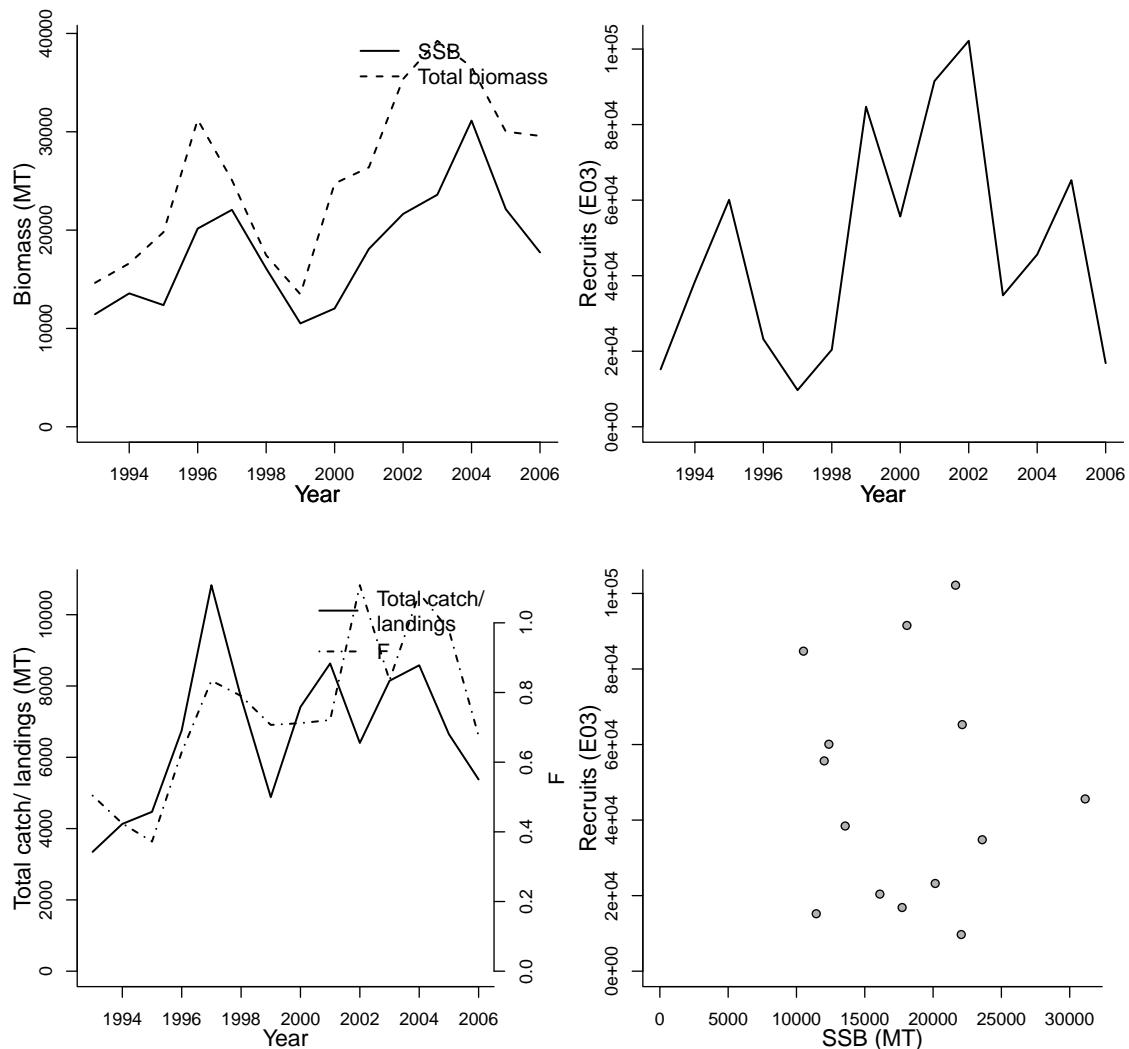
### General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1993-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-24
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME		secondary LME		tertiary LME	
24 - Celtic-Biscay Shelf		na		na	
Parameter	Value	Units			
SSB-AGE-yr	2	yr			
REC-AGE-yr	0	yr			
F-AGE-yr-yr	2 to 5	yr-yr			
TB-AGE-yr	0+	yr	Reference points		
A50-yr	2	yr	Parameter	Value	Units
M-1/T	0.2	1/T			
SSB-SEX-sex					
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1993	1993	1993	1993	1993
Maximum year	2006	2006	2006	2006	2006
Time series minimum	10512	9702	0.372	13468	3348
Time series maximum	31133	102180	1.108	39251	10827
Units	MT	E03	1/T	MT	MT



# Assessment of Celtic Sea european plaice (*Pleuronectes platessa*)

Assessment ID:WGSSDS-PLAICCELT-1976-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/51>

Area ID: multinational-ICES-VIIIf-g

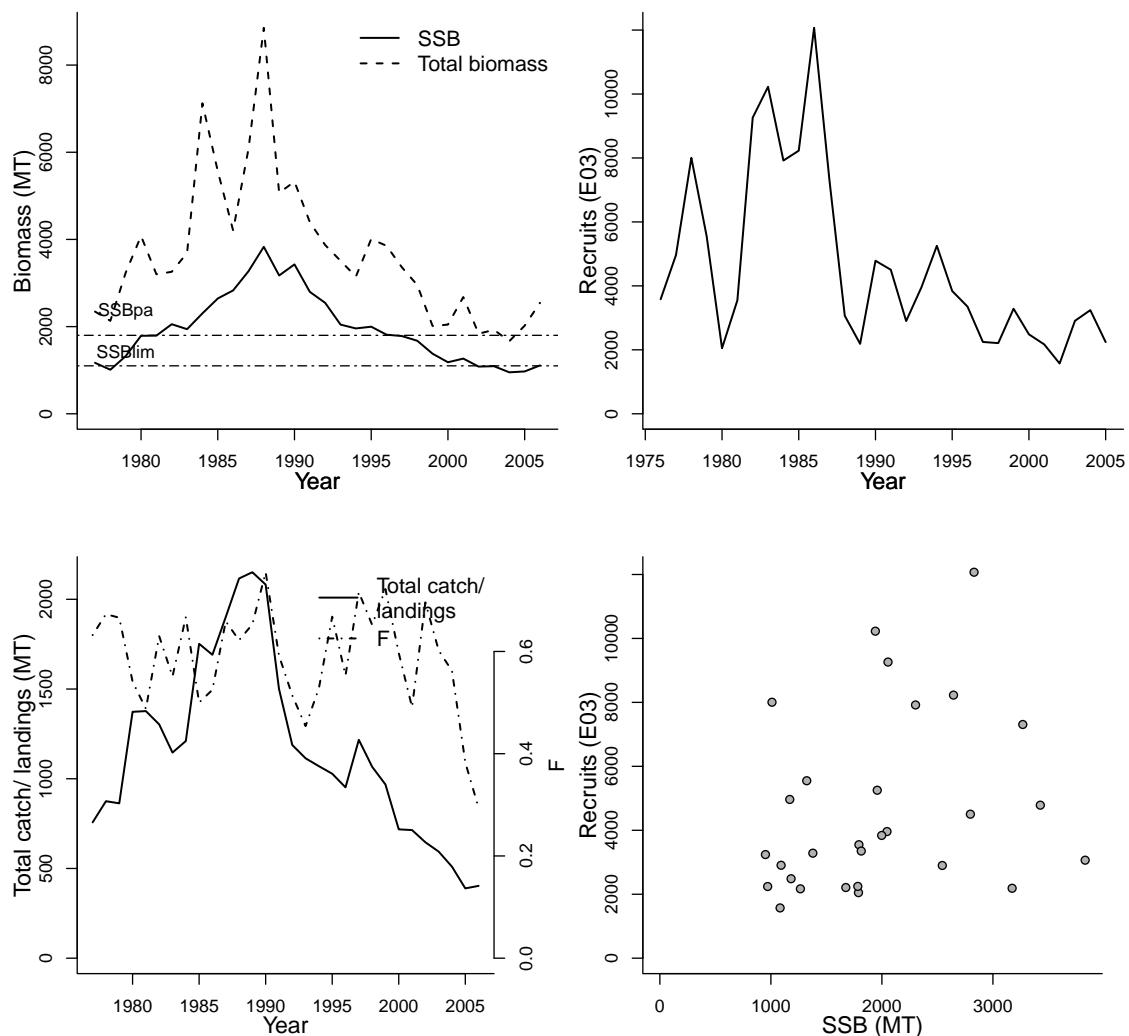
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1976-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-22
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	Reference points
F-AGE-yr-yr	3 to 6	yr-yr	Parameter
TB-AGE-yr	1+	yr	Value
A50-yr	AVAILABLE	yr	Units
M-1/T	0.12	1/T	SSBlim-MT (SSB) 1100 MT
SSB-SEX-sex			SSBpa-MT (SSB) 1800 MT
M			SSB <sub>2006</sub> /SSB <sub>lim</sub> 1.009
L50-cm			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1976	1977	1977	1977
Maximum year	2006	2005	2006	2006	2006
Time series minimum	951	1572	0.294	1666	389
Time series maximum	3831	12071	0.755	8855	2151
Units	MT	E03	1/T	MT	MT



# Assessment of Western English Channel european plaice (*Pleuronectes platessa*)

Assessment ID:WGSSDS-PLAICECHW-1975-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/52>

Area ID: multinational-ICES-VIIe

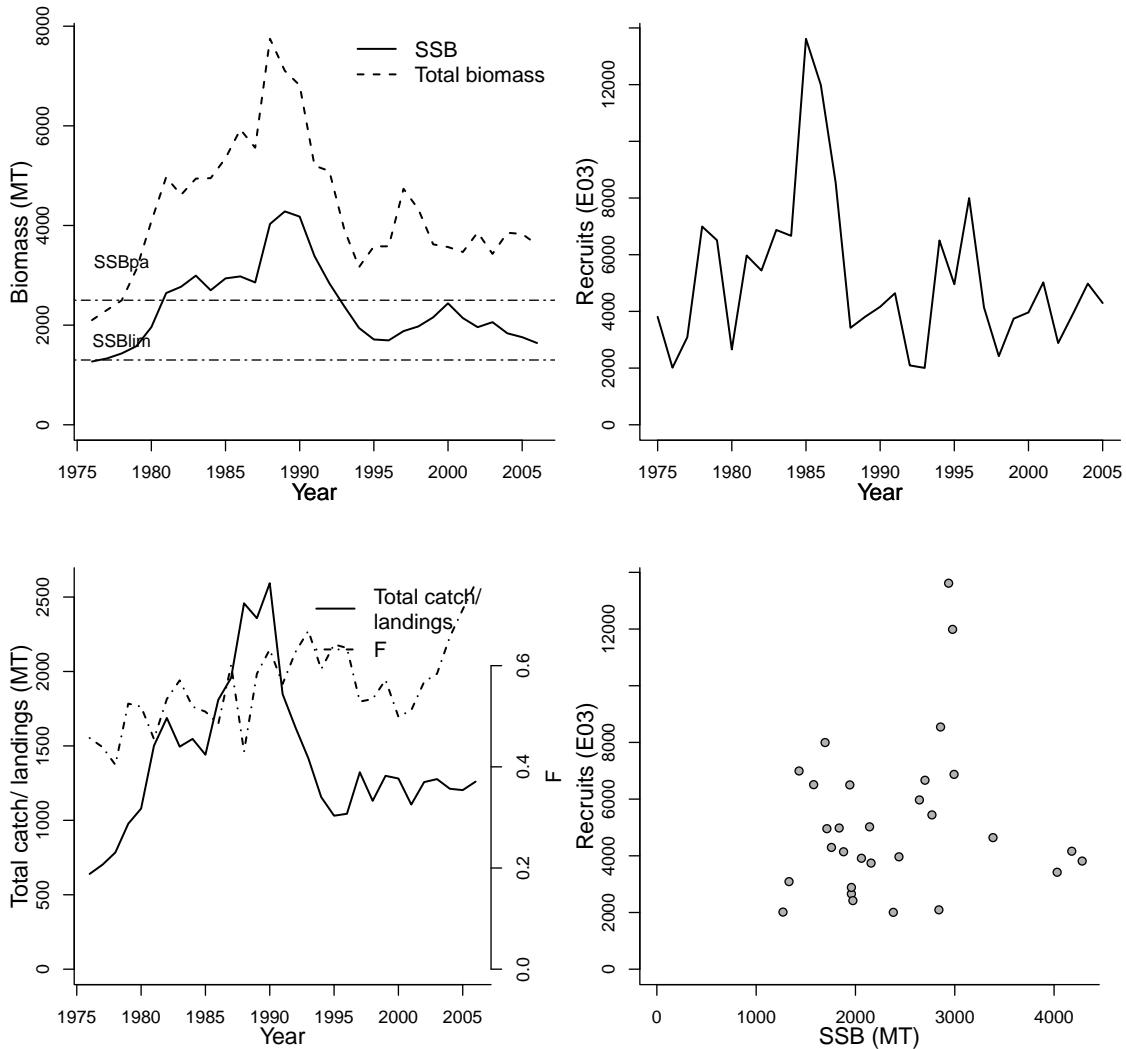
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1975-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-23
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	
F-AGE-yr-yr	3 to 7	yr-yr	Reference points
TB-AGE-yr	1+	yr	Parameter
A50-yr	AVAILABLE	yr	Value
M-1/T	0.12	1/T	Units
SSB-SEX-sex			
M			
L50-cm			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1976	1975	1976	1976	1976
Maximum year	2006	2005	2006	2006	2006
Time series minimum	1270	2006	0.404	2101	640
Time series maximum	4283	13617	0.763	7747	2593
Units	MT	E03	1/T	MT	MT



# Assessment of Celtic Sea common european sole (*Solea vulgaris*)

Assessment ID:WGSSDS-SOLECS-1970-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/55>

Area ID: multinational-ICES-VIIIf-g

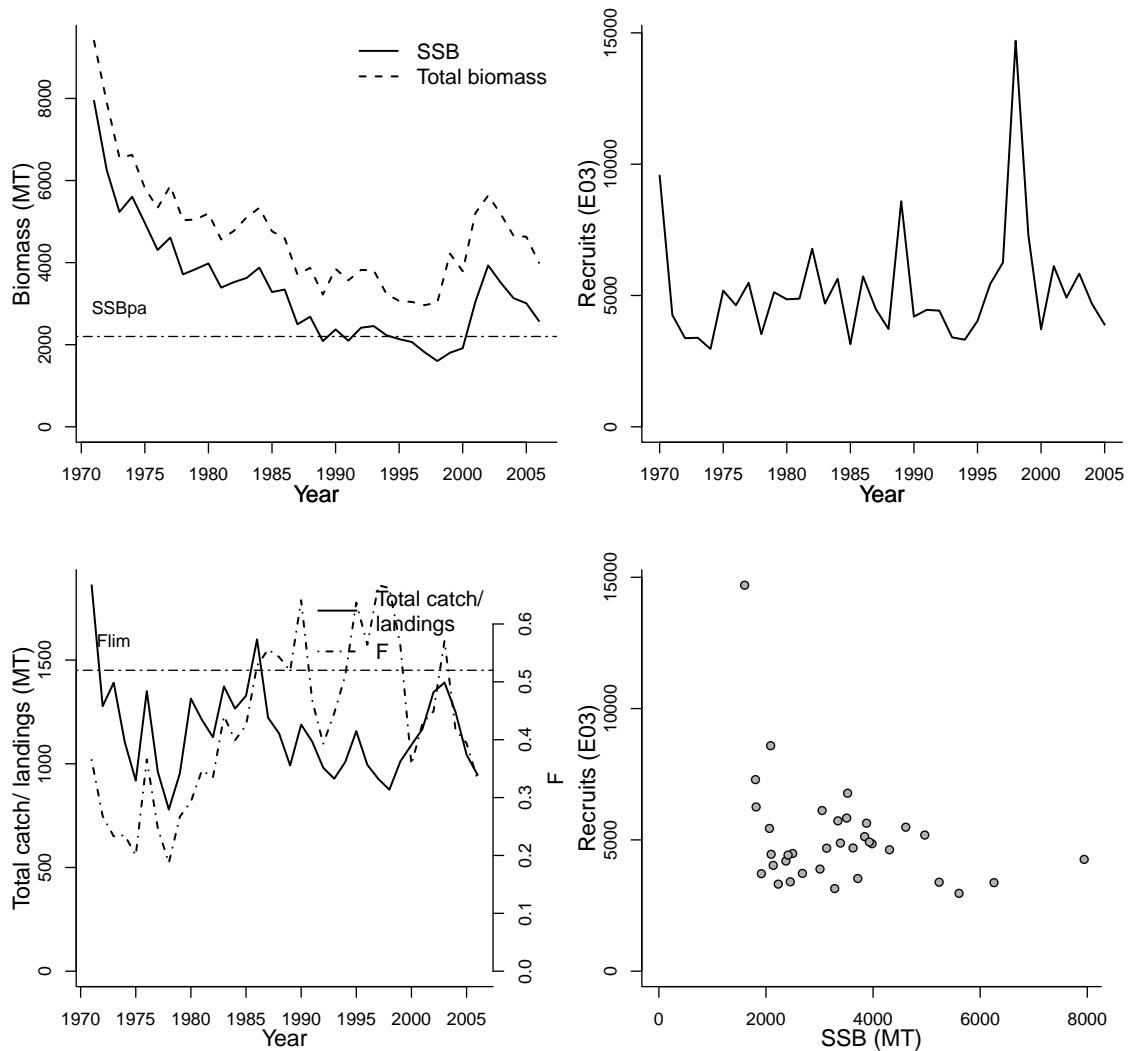
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1970-2006
Document	ICES-WGSSDS-2007.pdf database)
Recorder	JENNINGS
Date entered	2008-11-23
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	
F-AGE-yr-yr	4 to 8	yr-yr	
TB-AGE-yr	1+	yr	
A50-yr	AVAILABLE	yr	
M-1/T	0.1	1/T	
SSB-SEX-sex			
M			
L50-cm			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1971	1970	1971	1971	1971
Maximum year	2006	2005	2006	2006	2006
Time series minimum	1602	2964	0.187	2963	780
Time series maximum	7942	14698	0.667	9404	1861
Units	MT	E03	1/T	MT	MT



# Assessment of Western English Channel common european sole (*Solea vulgaris*)

Assessment ID:WGSSDS-SOLEVIIe-1968-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/78>

Area ID: multinational-ICES-VIIe

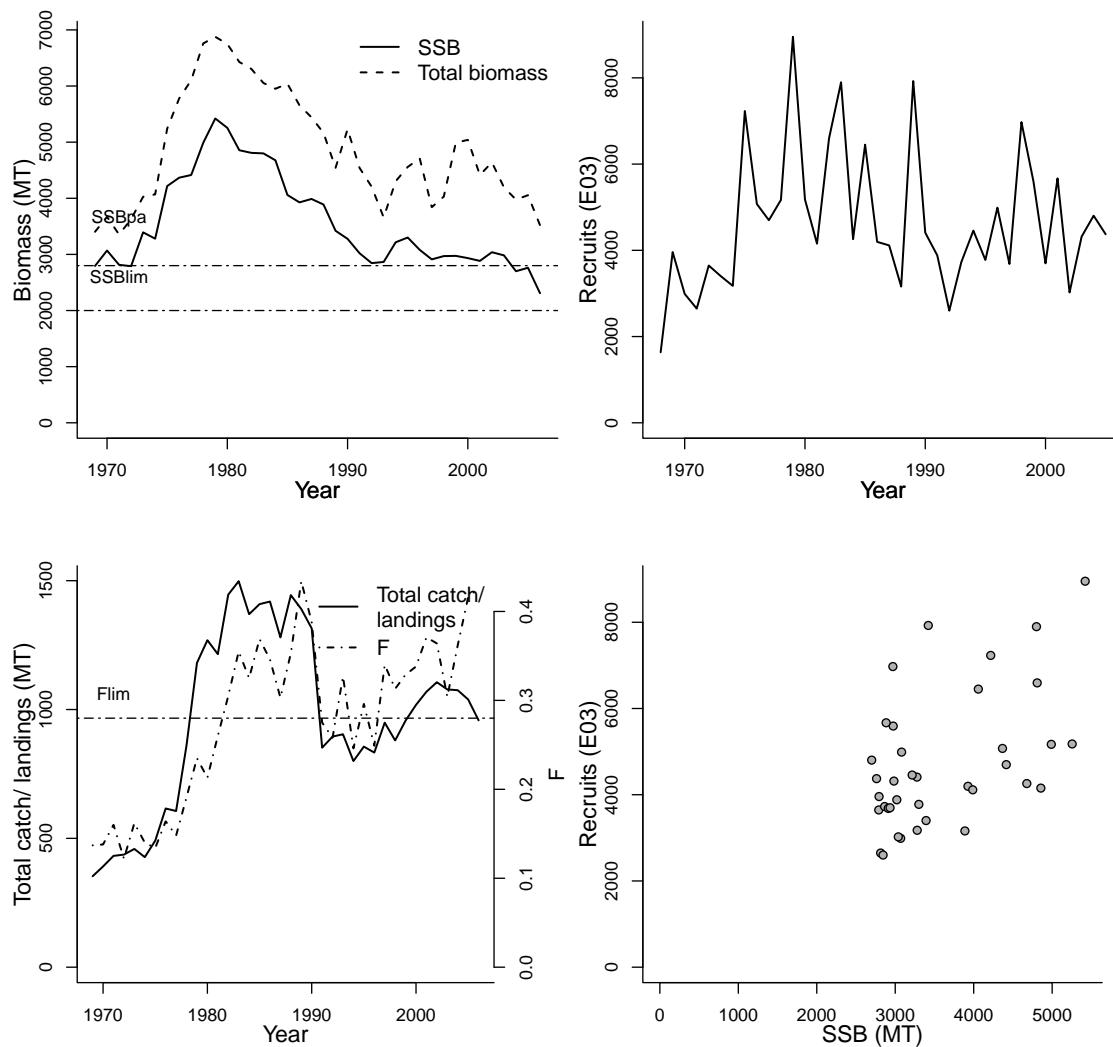
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1968-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-25
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		na	na
Parameter	Value	Units	Reference points
SSB-AGE-yr	AVAILABLE	yr	Parameter
REC-AGE-yr	1	yr	Value
F-AGE-yr-yr	3 to 7	yr-yr	Units
TB-AGE-yr	1+	yr	Flim-1/T (F) 0.28 1/T
A50-yr	AVAILABLE	yr	Fpa-1/T (F) 0.2 1/T
M-1/T	0.1	1/T	SSBlim-MT (SSB) 2000 MT
SSB-SEX-sex			SSBpa-MT (SSB) 2800 MT
M			$SSB_{2006}/SSB_{lim}$ 1.154
L50-cm			$F_{2006}/F_{lim}$ 1.521

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1969	1968	1969	1969	1969
Maximum year	2006	2005	2006	2006	2006
Time series minimum	2308	1635	0.122	3354	353
Time series maximum	5421	8952	0.434	6877	1498
Units	MT	E03	1/T	MT	MT



# Assessment of Celtic Sea whiting (*Merlangius merlangus*)

Assessment ID:WGSSDS-WHITVIIek-1982-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/81>

Area ID: multinational-ICES-VIe-k

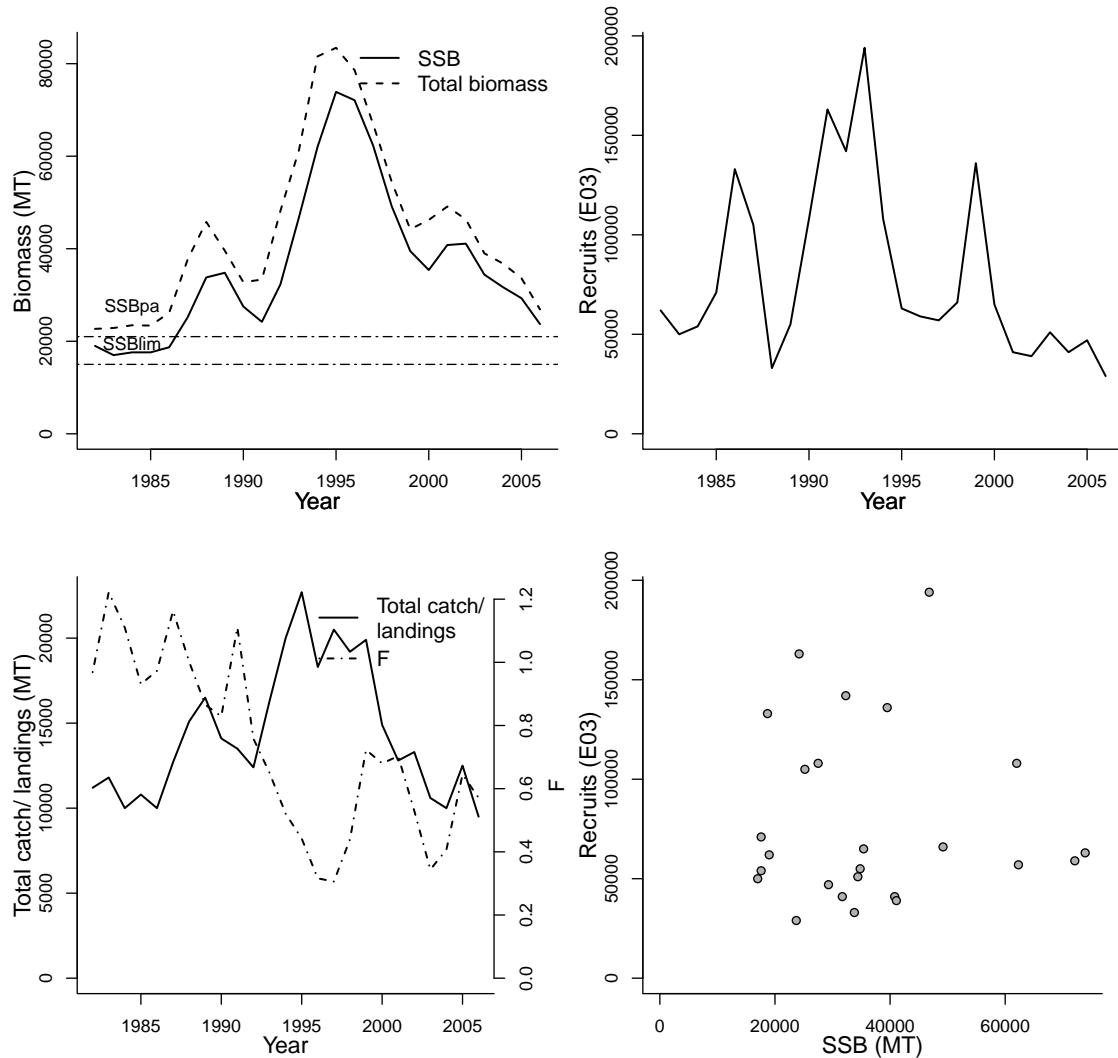
## General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2007
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-27
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	0	yr	Reference points
F-AGE-yr-yr	2 to 5	yr-yr	Parameter
TB-AGE-yr	0+	yr	Value
A50-yr	AVAILABLE	yr	SSBlim-MT (SSB)
M-1/T	0.2	1/T	SSBpa-MT (SSB)
SSB-SEX-sex			$SSB_{2006}/SSB_{lim}$
M			1.580
L50-cm			

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1982	1982	1982	1982
Maximum year	2006	2006	2006	2006
Time series minimum	17000	29000	0.306	22680
Time series maximum	73900	194000	1.222	83433
Units	MT	E03	1/T	MT



## MAP KEY:

### LME Numbers:

- 1 East Baffin Sea
- 2 Gulf of Alaska
- 3 California Current
- 4 Gulf of California
- 5 Gulf of Mexico
- 6 Northwest U.S. Continental Shelf
- 7 Northeast U.S. Continental Shelf
- 8 Northeast Shelf-Labrador Shelf
- 9 Northwest Pacific Trawlable Continental Shelf
- 10 Northeast Pacific Trawlable Continental Shelf
- 11 Northwest Atlantic
- 12 Caribbean Sea
- 13 North Atlantic
- 14 North Sea
- 15 South Africa
- 16 South Africa
- 17 South Africa
- 18 West Greenland Shelf
- 19 East Greenland Shelf
- 20 East Greenland Shelf
- 21 Norwegian Sea
- 22 North Sea
- 23 Baltic Sea
- 24 Black Sea
- 25 Mediterranean Coastal Shelf
- 26 Mediterranean Main Sea
- 27 North Sea
- 28 North Sea
- 29 Agulhas Current
- 30 Agulhas Current
- 31 Small Coastal Current
- 32 Red Sea
- 33 Red Sea
- 34 Gulf of Bengal
- 35 South China Sea
- 36 South China Sea
- 37 Indonesian Seas
- 38 Indonesian Seas
- 39 North Australian Shelf
- 40 Great Barrier Reef
- 41 South-Central Australian Shelf
- 42 Southwest Australian Shelf
- 43 Southwest Australian Shelf
- 44 Northwest Australian Shelf
- 45 Northwest Australian Shelf
- 46 Northwest Australian Shelf
- 47 Northwest Australian Shelf
- 48 Yellow Sea
- 49 Yellow Sea
- 50 Sea of Japan
- 51 Oyashio Current
- 52 Oyashio Current
- 53 West Kuring Gai
- 54 East Kuring Gai
- 55 East Kuring Gai
- 56 East Sipidan Sea
- 57 Kara Sea
- 58 Kara Sea
- 59 Kara Sea
- 60 Kara Sea
- 61 Arctic Ocean
- 62 Arctic Ocean
- 63 Hudson Bay
- 64 Arctic Ocean

# Large Marine Ecosystems of the World and Linked Watersheds



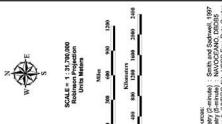
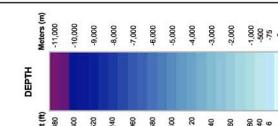
**LARGE MARINE ECOSYSTEMS** are areas of the ocean characterized by distinct bathymetry, hydrography, productivity, and trophic interactions. They annually produce 90 percent of the world's fish catch. They are national and regional focal areas of a global effort to reduce the degradation of linked watersheds, marine resources, and coastal environments from pollution, habitat loss, and over-fishing.

For More Information Visit: [www.edc.uri.edu/lme](http://www.edc.uri.edu/lme)



NORTH POLAR REGION

SOUTH POLAR REGION



Data Sources: Summary (G-mesh): Smith and Sandwell, 1997  
Watershed Boundaries: Smith and Sandwell, 1997  
Political Borders: UN, 2005  
Map Projection: WGS84  
Map Type: Global  
Map Source: IUGN