

Dear Colleague,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 152 of your assessments, and now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please follow the steps below to ensure that your assessments have been dutifully represented:

QA/QC steps

For each assessment:

1. Ensure that the General assessment details are correct.
2. Ensure that the units for all Biometrics and Time Series shown are correct. To aid in this, we have included the minimum, maximum, first year, and last year of the spawning stock biomass, recruitment, fishing mortality, total biomass, and catch (where provided).
3. If there are blank values in the Biometrics table, please include these in your response (see below), where they are available. Please note that in the Biometrics table, the following abbreviations are used:
 - SSB-AGE-yr = Ages for which the spawning stock biomass is defined
 - REC-AGE = Age at recruitment
 - F-AGE-yr = Ages for which the fishing mortality is defined
 - TB-AGE-yr = Ages for which the total biomass is defined
 - M = Natural mortality
 - A50-yr = The age at 50% maturity
 - L50-cm = The length at 50% maturity
 - MORATOR-yr-yr = Moratorium years
 - LME = Large Marine Ecosystem
4. To ensure that the recruitment time series has been offset by the age at recruitment so that yearclass matches up with spawner biomass, please make sure that the difference between the last year of the recruitment and last year of the SSB time series is equal to the age at recruitment supplied (unless there is another reason, e.g. estimates unavailable).
5. Provide Large Marine Ecosystem (LME) designation(s) for your stock (unless it is a high seas stock). Please enter a primary, secondary and tertiary LME (if they exist) in the issue you submit (see below). A map of the LMEs is provided on the last page of this document.

QA/QC submission process

If you (or someone else) submitted the assessments via the RAM legacy site, please log into : <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting> and locate the issue(s) associated with your spreadsheet submission(s). Once you locate your assessment, open the associated issue and choose “Add response”. At the top of this response write:

QAQC: Assessment ID (this ID is located at the top of each assessment in the current document)

If you did not submit via the RAM Legacy site, please go to the url above and click “Submit a new issue” with the title: *QAQC: Assessment ID* (located at the top of each assessment in this pdf).

If you found no issues with the QA/QC document, please type:
“QA/QC correct”. If you have found issues, please update the assessment spreadsheet accordingly or write the details of corrections to be made in the dialogue box. Once we have received and processed your response, the assessment will be flagged as quality controlled and the data it contains will be used for analyses.

Contents

QA/QC steps	1
QA/QC submission process	1
AFSC-ALPLAICBSAI-1972-2008-MELNYCHUK	3
AFSC-ARFLOUNDBSAI-1970-2008-STANTON	5
AFSC-ARFLOUNDGA-1958-2010-STANTON	7
AFSC-ATKABSAI-1976-2009-STANTON	9
AFSC-BKINGCRABPI-1960-2008-JENSEN	11
AFSC-BKINGCRABSMI-1960-2008-JENSEN	13
AFSC-CABEZNCAL-1916-2005-STANTON	15
AFSC-CABEZSCAL-1932-2005-STANTON	17
AFSC-DSOLEGA-1978-2010-STANTON	19
AFSC-DUSROCKGA-1973-2008-MELNYCHUK	21
AFSC-FLSOLEBESAI-1977-2008-STANTON	23
AFSC-FLSOLEGA-1978-2008-STANTON	25
AFSC-GHALBSAI-1960-2009-STANTON	27
AFSC-GKINGCRABAIES-1990-2007-JENSEN	29
AFSC-GKINGCRABAIWS-1989-2007-JENSEN	31
AFSC-NROCKBSAI-1974-2009-STANTON	33
AFSC-NROCKGA-1959-2008-MELNYCHUK	35
AFSC-NRSOLEEBSAI-1971-2008-STANTON	37
AFSC-PCODBSAI-1964-2008-MELNYCHUK	39
AFSC-PCODGA-1964-2008-MELNYCHUK	41
AFSC-PERCHEBSAI-1974-2009-STANTON	43
AFSC-POPERCHGA-1959-2008-MELNYCHUK	45
AFSC-REXSOLEGA-1979-2008-STANTON	47
AFSC-REYEROCKBSAI-1974-2009-STANTON	49
AFSC-REYEROCKGA-1974-2007-MELNYCHUK	51
AFSC-RKCRABB-1960-2008-JENSEN	53
AFSC-RKCRABNS-1976-2008-JENSEN	55
AFSC-RKCRABPI-1981-2009-JENSEN	57
AFSC-SABLEFEBSAIGA-1956-2008-MELNYCHUK	59
AFSC-SNOWCRABBS-1979-2008-JENSEN	61
AFSC-SRAKEROCKBSAI-1977-2008-STANTON	63
AFSC-TANNERCRABBSAI-1965-2008-JENSEN	65
AFSC-WPOLLAI-1976-2008-MELNYCHUK	67
AFSC-WPOLLEBS-1963-2008-MELNYCHUK	69
AFSC-WPOLLGA-1964-2008-MELNYCHUK	71
AFSC-YSOLEBSAI-1959-2008-MELNYCHUK	73
ASMFC-ATLCROAKMATLC-1973-2002-STANTON	75
ASMFC-LOBSTERGB-1981-2007-STANTON	77
ASMFC-LOBSTERGOM-1981-2007-STANTON	79
ASMFC-LOBSTERSNE-1981-2007-STANTON	81
ASMFC-PANDALGOM-1960-2009-IDOINE	83
ICCAT-BIGEYEATL-1950-2005-JENSEN	85
ICCAT-YFINATL-1970-2006-JENSEN	87
NEFSC-ACADREDGOMGB-1913-2007-MILLER	89
NEFSC-AMPL5YZ-1960-2008-OBRIEN	91
NEFSC-ATHAL5YZ-1800-2007-COL	93
NEFSC-BLUEFISHATLC-1981-2007-SHEPHERD	95
NEFSC-BSBASSMATLC-1968-2007-SHEPHERD	97
NEFSC-BSKAT5YZSNE-1963-2005-SOSEBEE	99
NEFSC-BUTTERGOMCHATT-1965-2005-OVERHOLTZ	101
NEFSC-CODGB-1960-2008-BAUM	103
NEFSC-CODGOM-1893-2008-BAUM	105
NEFSC-CSKATMATLC-1975-2005-SOSEBEE	107
NEFSC-HAD5Y-1956-2008-BAUM	109
NEFSC-HADGB-1930-2008-BAUM	111

NEFSC-HERRNWATLC-1960-2005-OVERHOLTZ	113
NEFSC-ILLEXNWATLC-1967-2005-HENDRICKSON	115
NEFSC-LSKAT5YCHATT-1968-2006-SOSEBEE	117
NEFSC-MACKGOMCHATT-1960-2005-OVERHOLTZ	119
NEFSC-MONKGOMNGB-1964-2006-RICHARDS	121
NEFSC-MONKSGBMATL-1964-2006-RICHARDS	123
NEFSC-OPOUTNWATLC-1962-2008-WIGLEY	125
NEFSC-POLL5YZ-1963-2007-MAYO	127
NEFSC-QUAHATLC-1978-2008-CHUTE	129
NEFSC-RDEEPCRABNWATL-1982-2008-CHUTE	131
NEFSC-RSKATMATLC-1967-2005-SOSEBEE	133
NEFSC-SCALLGB-1964-2006-HART	135
NEFSC-SCALLMATLC-1964-2006-HART	137
NEFSC-SCUPNWATLC-1960-2007-TERCEIRO	139
NEFSC-SDOGATLC-1962-2006-SOSEBEE	141
NEFSC-SFLOUNMATLC-1940-2007-BAUM	143
NEFSC-SHAKEGOMNGB-1955-2005-COL	145
NEFSC-SHAKESGBMATL-1955-2005-COL	147
NEFSC-SSKAT5YZSNE-1963-2005-SOSEBEE	149
NEFSC-STRIPEDBASSGOMCHATT-1982-2006-SHEPHERD	151
NEFSC-SURFMATLC-1965-2008-JACOBSON	153
NEFSC-TILEMATLC-1973-2008-NITSCHKE	155
NEFSC-TSKAT5YZSNE-1963-2005-SOSEBEE	157
NEFSC-WHAKEGBGOM-1963-2007-SOSEBEE	159
NEFSC-WINDOWGOMGB-1975-2007-HENDRICKSON	161
NEFSC-WINDOWSNEMATL-1975-2007-HENDRICKSON	163
NEFSC-WINFLOUN5Z-1982-2007-HENDRICKSON	165
NEFSC-WINFLOUD5Y-1982-2008-NITSCHKE	167
NEFSC-WINFLOUNSNEMATL-1940-2007-TERCEIRO	169
NEFSC-WITFLOUN5Y-1982-2008-WIGLEY	171
NEFSC-WSKAT5YCHATT-1967-2005-SOSEBEE	173
NEFSC-YELLCODGOM-1935-2008-LEGAULT	175
NEFSC-YELLGB-1935-2008-BAUM	177
NEFSC-YELLSNEMATL-1935-2008-BAUM	179
NMFS-CMACKNPAC-1929-2005-STANTON	181
NMFS-MENATLAN-1940-2005-STANTON	183
NMFS-SARDNPAC-1981-2008-STANTON	185
NWFSC-ARFLOUNDPCOAST-1916-2007-BRANCH	187
NWFSC-BGROCKPCOAST-1950-2005-STANTON	189
NWFSC-BLACKROCKNPCOAST-1914-2006-BRANCH	191
NWFSC-BLACKROCKSPCOAST-1915-2007-BRANCH	193
NWFSC-BLUEROCKCAL-1916-2007-BRANCH	195
NWFSC-BOCACCSPCOAST-1951-2006-BRANCH	197
NWFSC-CHILISPSCOAST-1892-2007-BRANCH	199
NWFSC-COWCODSCAL-1900-2007-BRANCH	201
NWFSC-CROCKPCOAST-1916-2007-BRANCH	203
NWFSC-DKROCKPCOAST-1928-2007-BRANCH	205
NWFSC-ESOLEPCOAST-1876-2007-BRANCH	207
NWFSC-KELPGREENLINGORECOAST-1979-2005-STANTON	209
NWFSC-LNOSESKAPCOAST-1915-2007-BRANCH	211
NWFSC-LSTHORNHPCOAST-1962-2005-STANTON	213
NWFSC-PHAKERPCOAST-1966-2008-BRANCH	215
NWFSC-POPERCHPCOAST-1953-2007-BRANCH	217
NWFSC-PSOLENPSCOAST-1910-2005-STANTON	219
NWFSC-PSOLESPSCOAST-1874-2005-STANTON	221
NWFSC-SABLEFPSCOAST-1900-2007-BRANCH	223
NWFSC-SSTHORNHPCOAST-1901-2005-STANTON	225
NWFSC-WROCKPCOAST-1955-2006-BRANCH	227
NWFSC-YEYEROCKPCOAST-1923-2006-BRANCH	229

NWFSC-YTROCKNPCOAST-1967-2005-STANTON	231
PFMC-LINGCODNPCOAST-1956-2005-STANTON	233
PFMC-LINGCODSPCOAST-1956-2005-STANTON	235
SEFSC-BHEADSHARATL-1950-2005-FAUCONNEN	237
SEFSC-BNOSESHARATL-1950-2005-FAUCONNEN	239
SEFSC-BTIPSHARATL-1981-2004-FAUCONNEN	241
SEFSC-BTIPSHARGM-1981-2004-FAUCONNEN	243
SEFSC-FTOOTHSHARATL-1976-2005-FAUCONNEN	245
SEFSC-GAGGM-1963-2004-JENSEN	247
SEFSC-GAGSATLC-1962-2005-JENSEN	249
SEFSC-GRAMBERGM-1986-2004-JENSEN	251
SEFSC-GRAMBERSATLC-1946-2006-JENSEN	253
SEFSC-GTRIGGM-1981-2004-JENSEN	255
SEFSC-KMACKGM-1992-2001-JENSEN	257
SEFSC-KMACKSATLC-1981-2001-JENSEN	259
SEFSC-MENATGM-1964-2004-GILROY	261
SEFSC-MUTSNAPSATLCGM-1981-2006-JENSEN	263
SEFSC-RGROUPGM-1986-2005-JENSEN	265
SEFSC-RPORGYSATLC-1972-2005-JENSEN	267
SEFSC-RSNAPSATLC-1945-2006-JENSEN	269
SEFSC-SBARSHARATL-1975-2004-FAUCONNEN	271
SEFSC-SNOSESHARATL-1950-2005-FAUCONNEN	273
SEFSC-SNOWGROUPSATLC-1961-2002-STANTON	275
SEFSC-SPANMACKSATLC-1950-2008-JENSEN	277
SEFSC-TILESATLC-1961-2002-STANTON	279
SEFSC-VSNAPGM-1981-2004-JENSEN	281
SEFSC-VSNAPSATLC-1946-2008-STANTON	283
SEFSC-YTSNAPSATLCGM-1962-2001-STANTON	285
SPC-SKJCWPAC-1972-2007-JENSEN	287
SPC-YFINCWPAC-1952-2006-JENSEN	289
SWFSC-CALSCORPSCAL-1990-2005-STANTON	291
SWFSC-CMACKPCOAST-1929-2008-PINSKY	293
SWFSC-DSOLEPCOAST-1910-2005-STANTON	295
SWFSC-GOPHERSPCOAST-1965-2005-STANTON	297
SWFSC-SARDPCOAST-1981-2007-PINSKY	299
SWFSC-SBELLYROCKPCOAST-1950-2005-BRANCH	301
SWFSC-STFLOUNNNPCOAST-1970-2005-STANTON	303
SWFSC-STFLOUNSPCOAST-1970-2005-STANTON	305
LME map	307

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

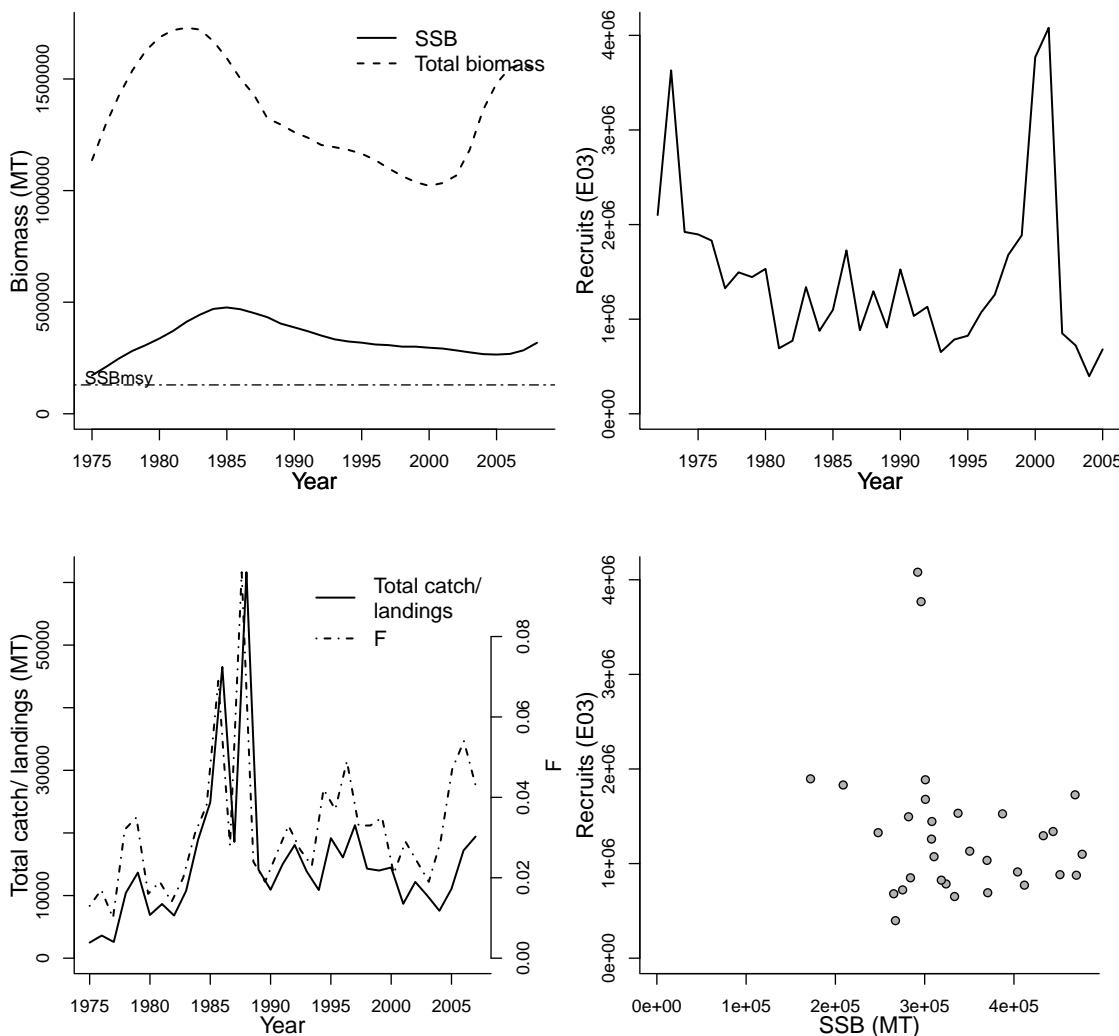
General assessment details.

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	2009-05-22
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
1 - East Bering Sea			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
F-AGE-yr-yr	3+	yr-yr	Fmsy-1/yr (F)	0.86	1/yr
TB-AGE-yr	3+	yr	NATMORT-1/yr (M)	0.25	1/yr
M-1/yr	0.25	1/yr	F40%-1/T	0.62	1/T
NATMORT-1/yr	0.25	1/yr	SSBmsy-MT (SSB)	129300	MT
SSB-AGE-yr			SSBF40%-MT	147850	MT
M			F_{2008}/F_{msy}	0.050	
A50-yr			SSB_{2008}/SSB_{msy}	2.461	
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

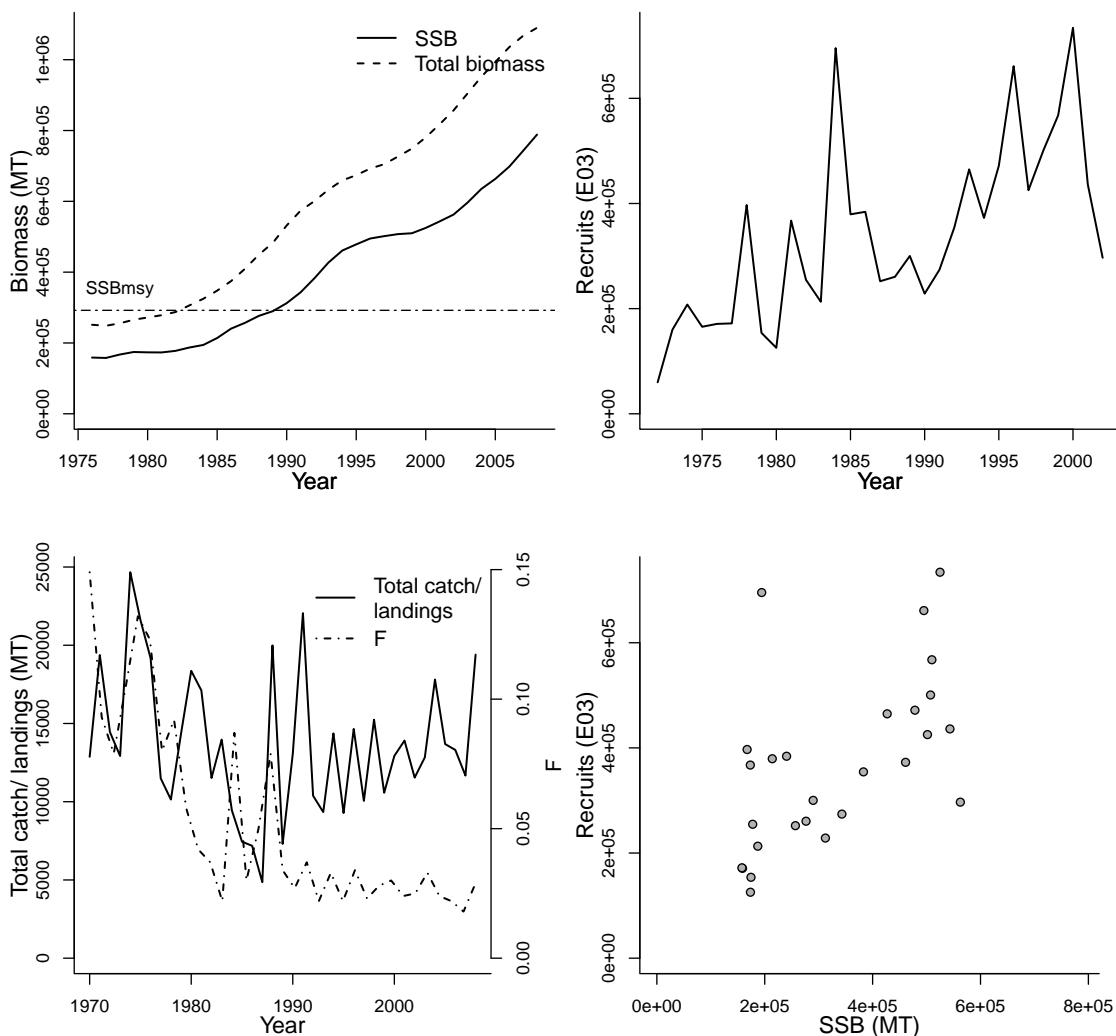
General assessment details.

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
REC-AGE-yr	2	yr	SSB _m sy-MT (SSB)	292200.00	MT
F-AGE-yr-yr	1+	yr-yr	F _{lim} -1/yr (F)	0.29	1/yr
TB-AGE-yr	1+	yr	F _p a-1/yr (F)	0.235	1/yr
L50-cm	42.2	cm	F ₂₀₀₈ /F _{lim}	0.100	
M			SSB ₂₀₀₈ /SSB _m sy	2.698	
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

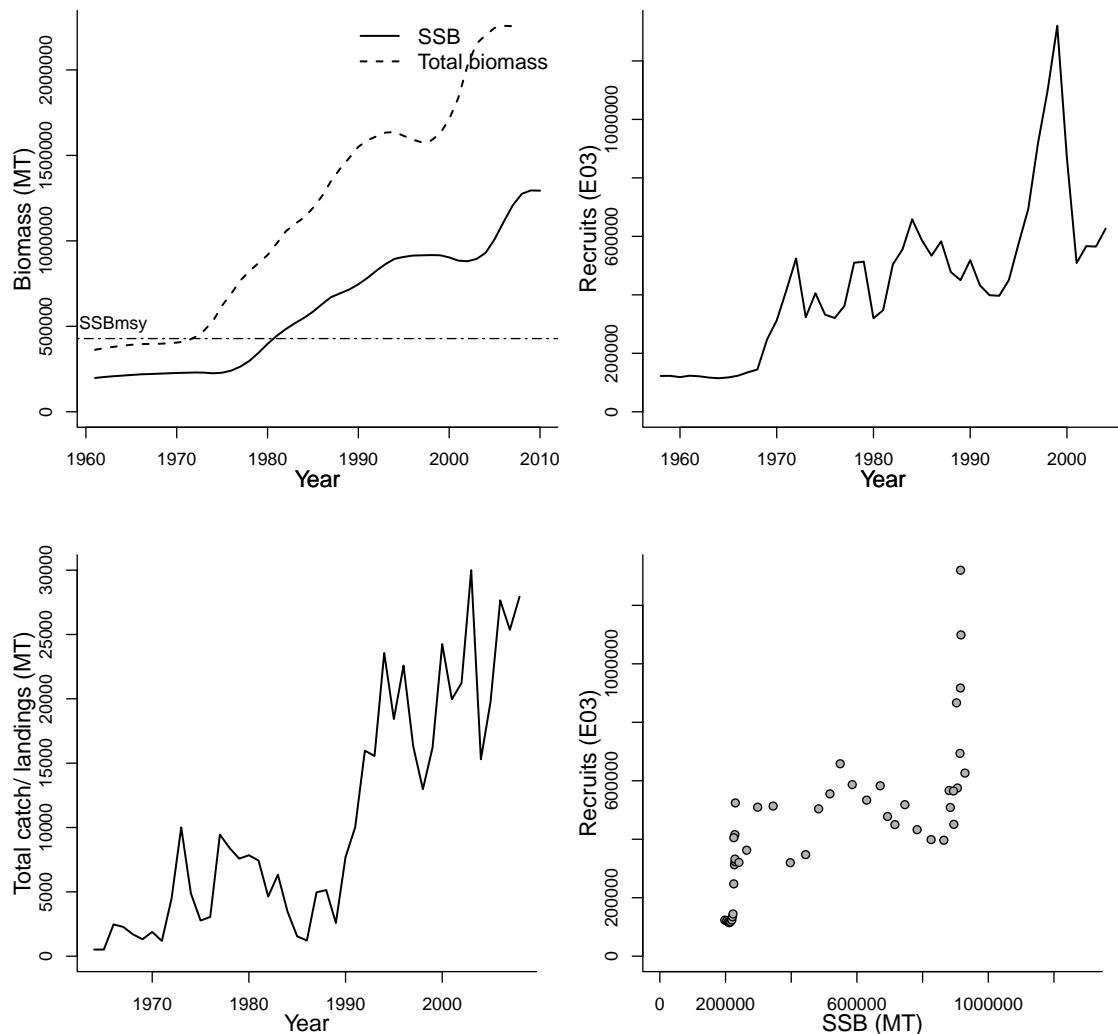
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			2 - Gulf of Alaska	na	na
SSB-AGE-yr	3+	yr			
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	Value	Units	Reference points
NATMORT-1/yr (M)	0.2	1/yr	Parameter
F40%-1/T	0.186	1/T	Value
SSBmsy-MT (SSB)	428307	MT	Units
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.

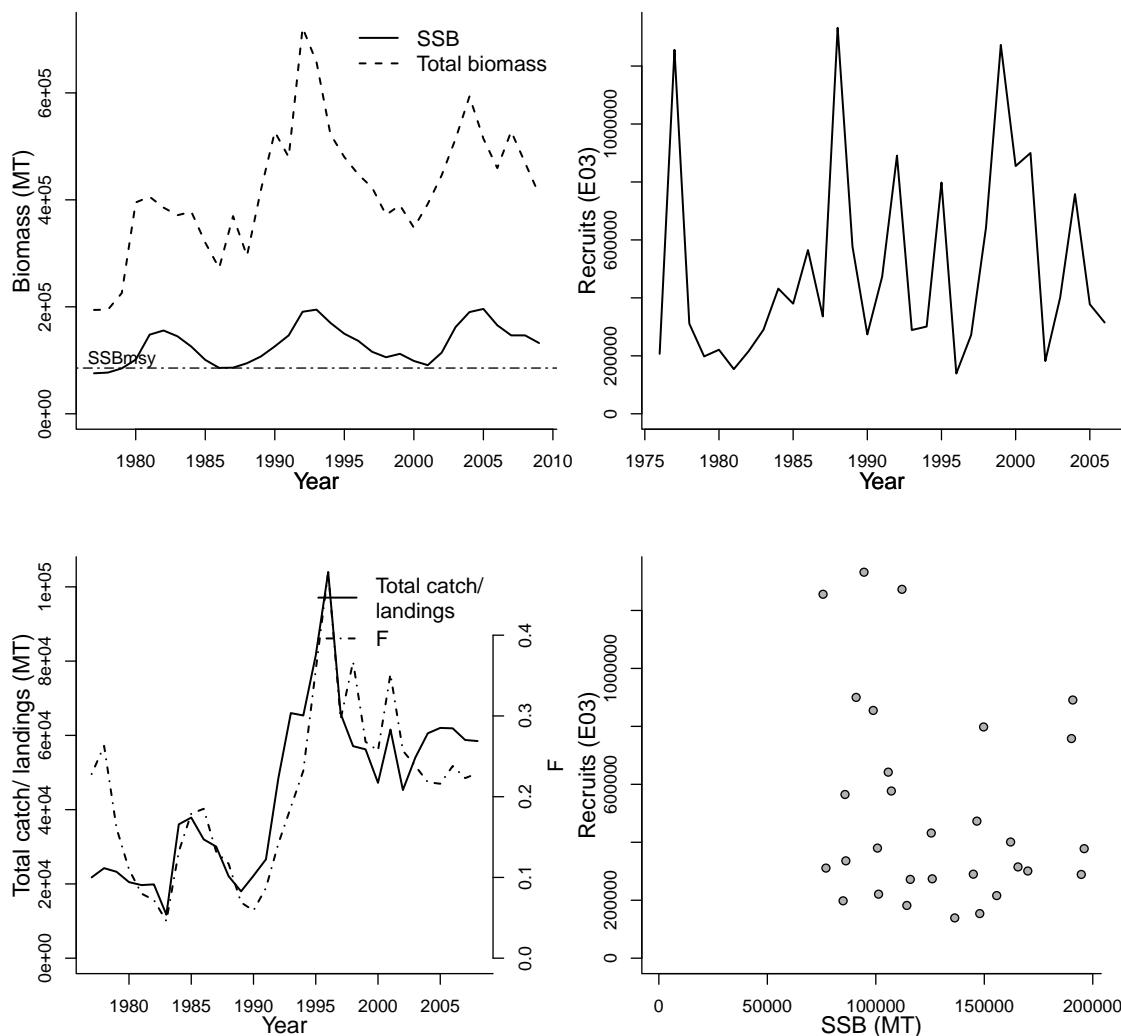
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Lowe, S
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1976-2009
Document	2008-SAFE_BSAIatka.pdf (pdf not in database)
Recorder	STANTON
Date 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			
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	Value	Units	Reference points	Value	Units
SSB-AGE-yr	3+	yr			
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					

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.

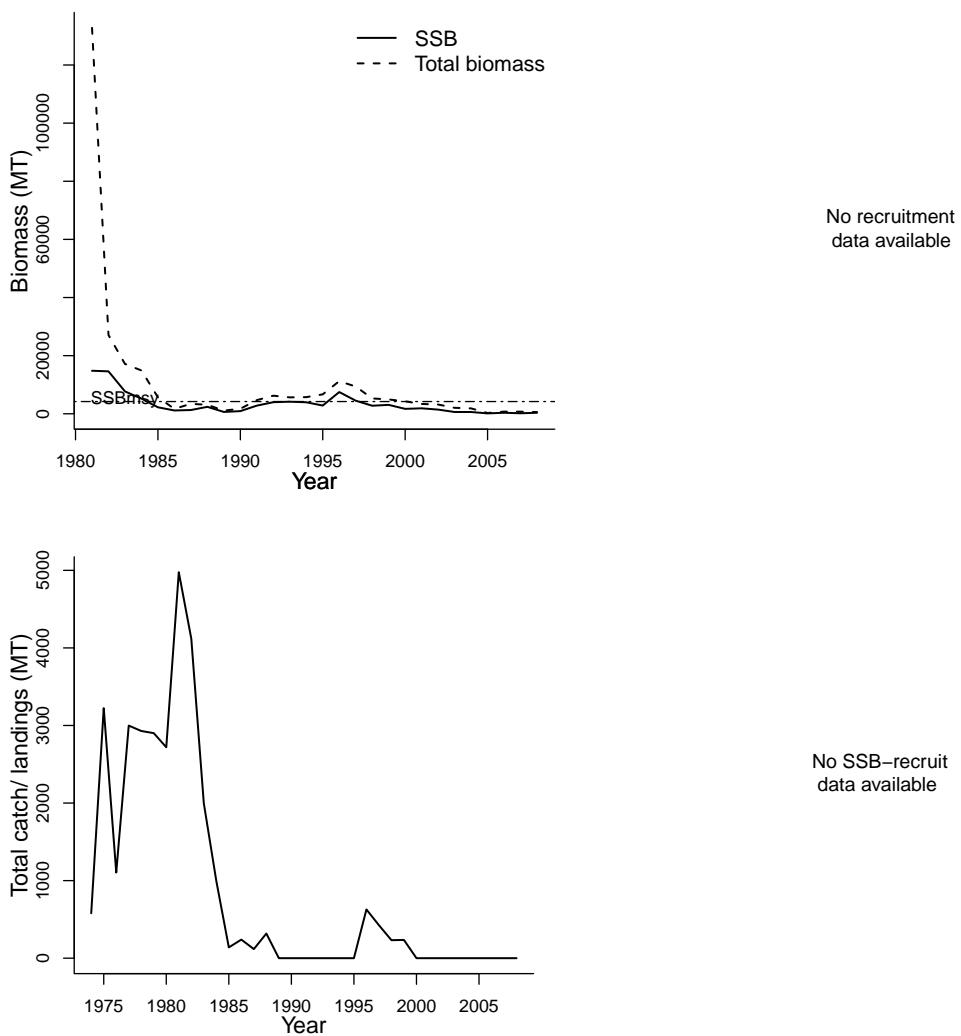
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1960-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2009-06-12
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		
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
SSB _{msy} -MT (SSB)	4209.33376	MT
SSB ₂₀₀₈ /SSB _{msy}	0.082	

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

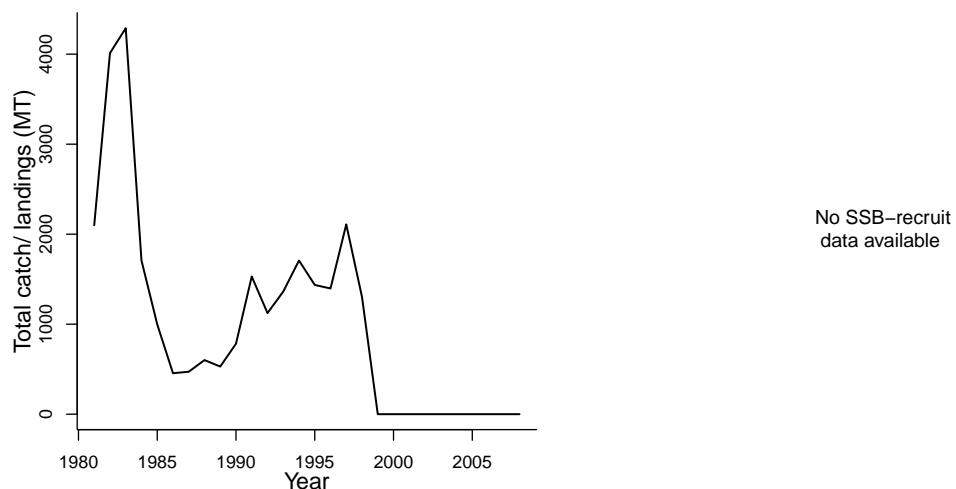
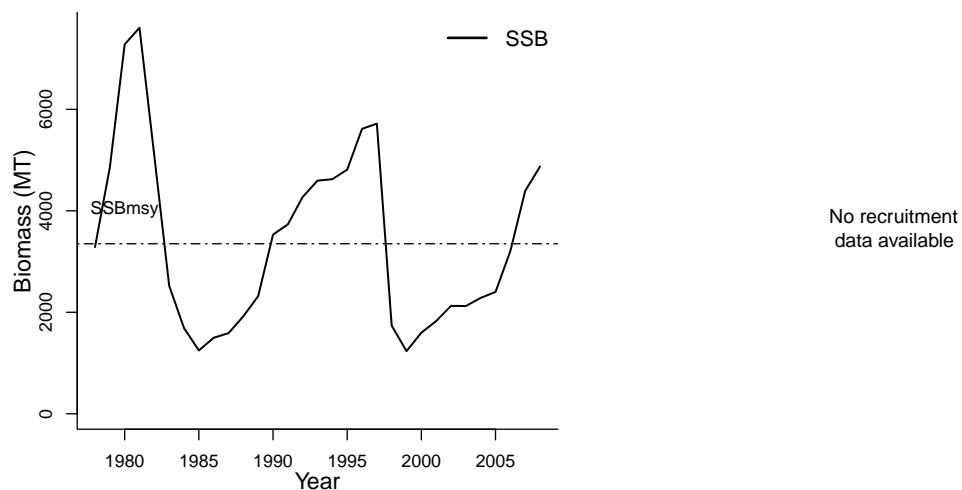
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
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	2009-06-12
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	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			
		Reference points	
		Parameter	Value
		SSB _m sy-MT (SSB)	3350.68
		$SSB_{2008}/SSB_{m\text{sy}}$	1.454
		Units	

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-CABEZNAL-1916-2005-STANTON

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

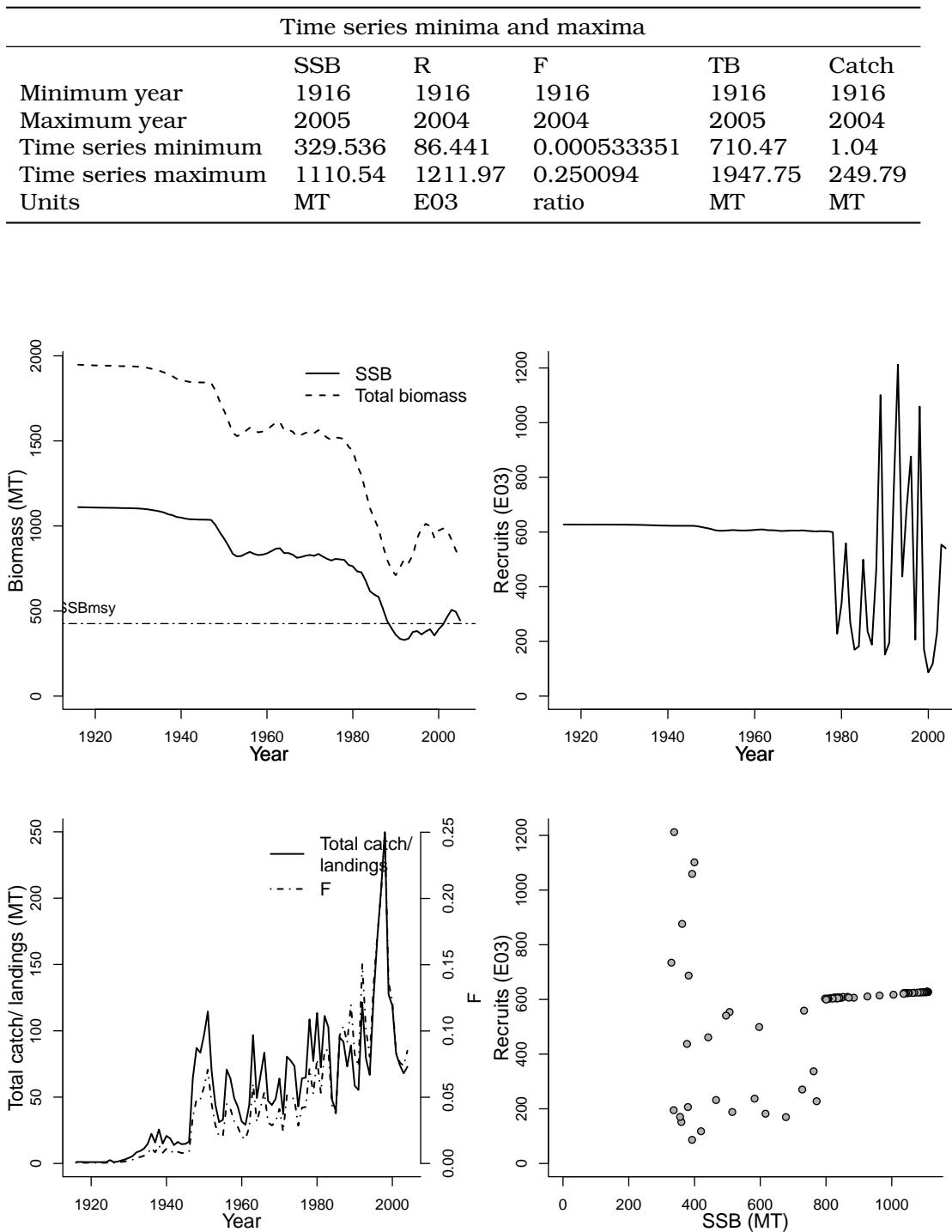
Area ID: USA-NMFS-NCAL

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-WC cabezon.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			Parameter	Value	Units
SSB-AGE-yr	4+	yr				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 ₂₀₀₅ /SSB _{msy}	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

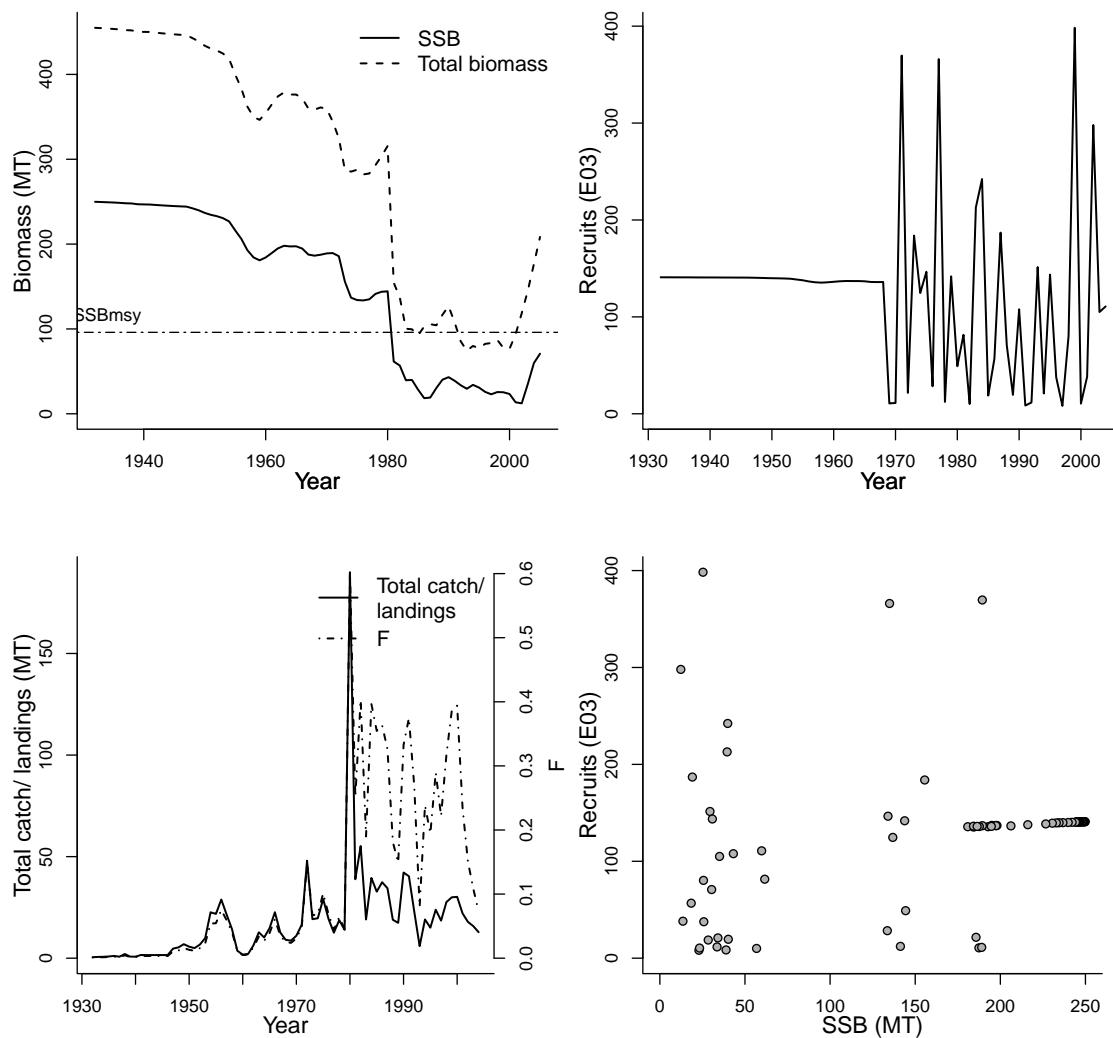
General assessment details.

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
REC-AGE-yr	0	yr	NATMORT-1/yr (M)	0.25		1/yr		
F-AGE-yr-yr	0+	yr-yr	SSBmsy-MT (SSB)	96		MT		
TB-AGE-yr	0+	yr	MSY-MT (TB)	26		MT		
M-1/yr	0.25	1/yr	Umsy-ratio (U)	0.13		ratio		
NATMORT-1/yr	0.25	1/yr	SSB0-MT (SSB)	251		MT		
M			B0-MT	433		MT		
A50-yr			SSB ₂₀₀₅ /SSB _{msy}	0.738				
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1932	1932	1932	1932
Maximum year	2005	2004	2004	2005
Time series minimum	12.304	8.181	0.0010773	74.42
Time series maximum	249.841	398.304	0.602182	454.93
Units	MT	E03	ratio	MT



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

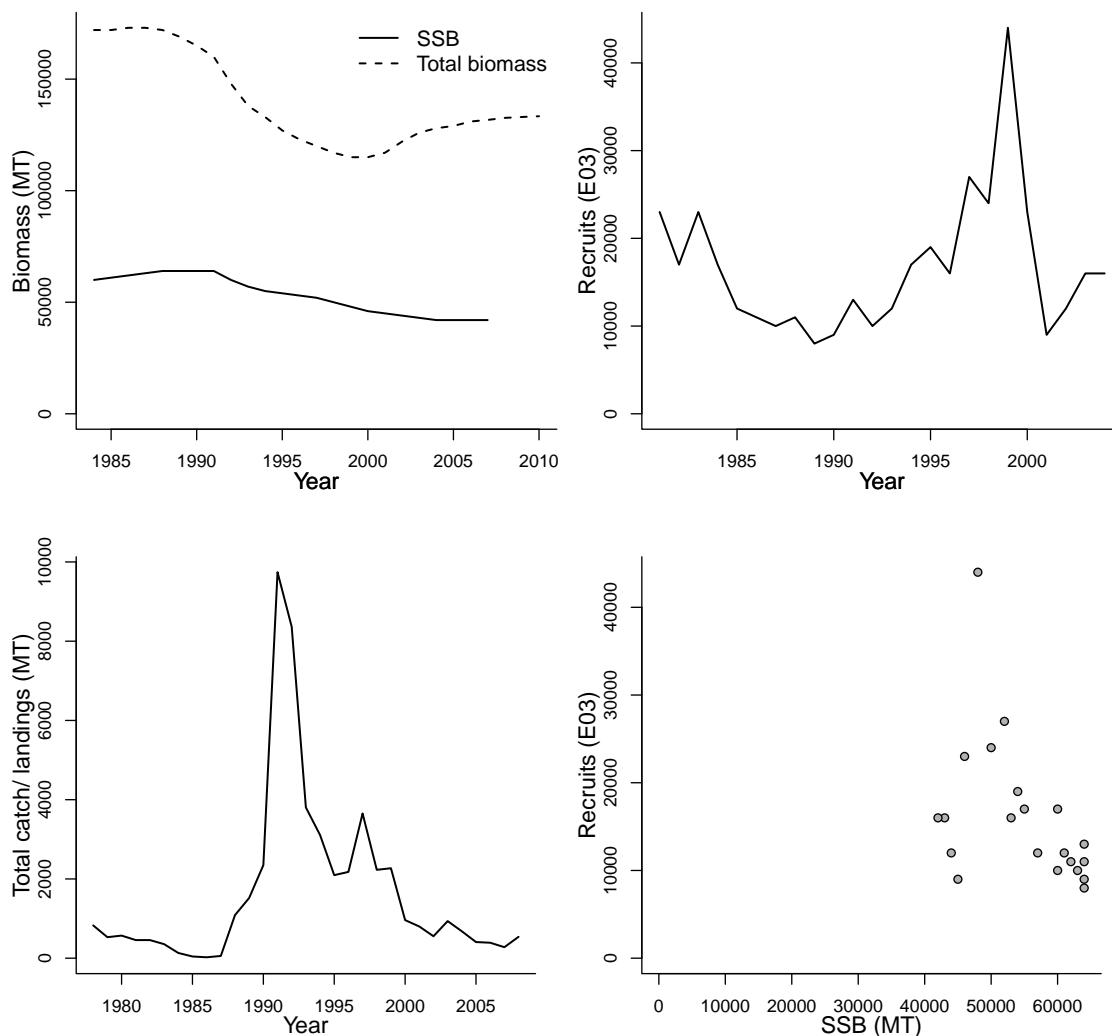
General assessment details.

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			
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			Reference points		
M			Parameter	Value	Units
			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

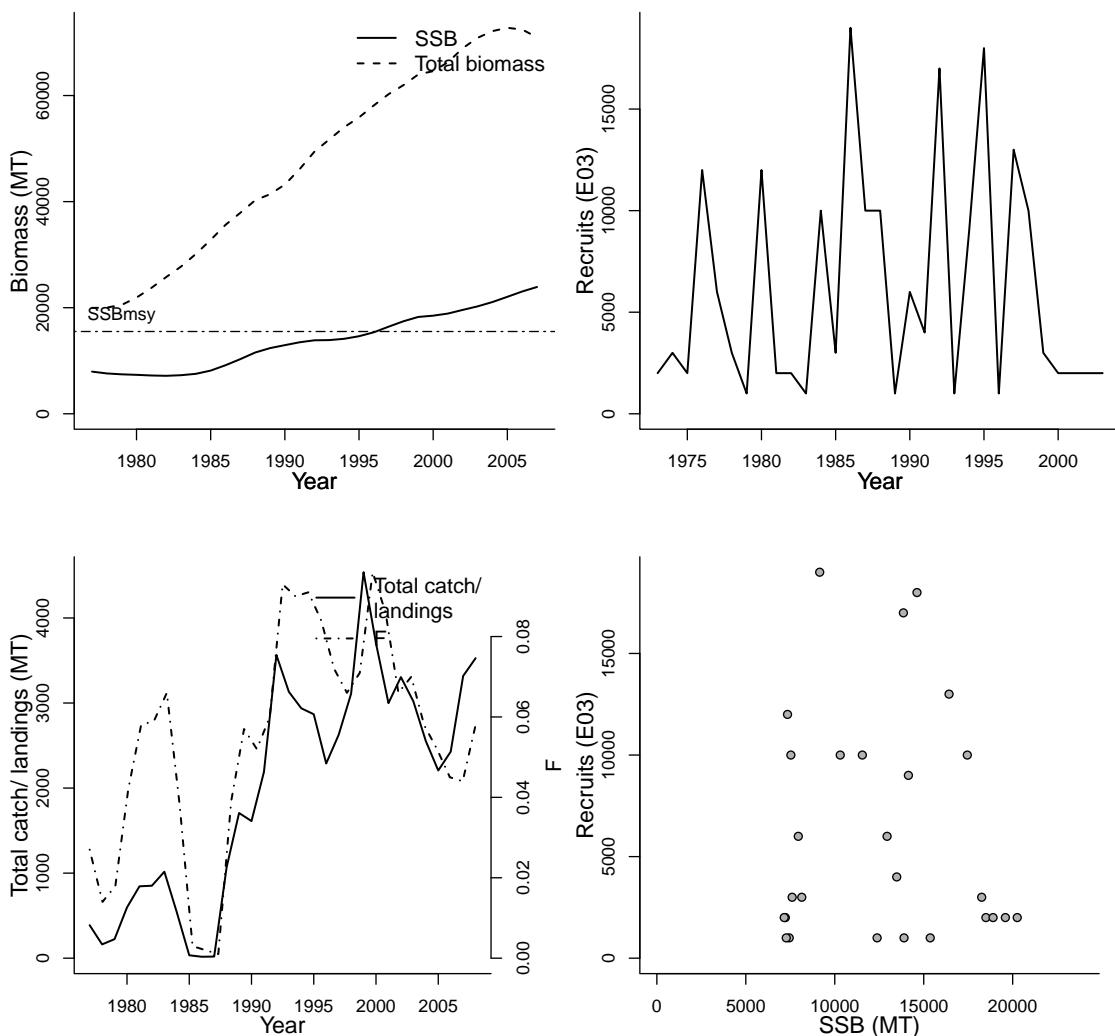
General assessment details.

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	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	11.3	yr	Fmsy-1/yr (F)	0.107	1/yr
REC-AGE-yr	4	yr	NATMORT-1/yr (M)	0.07	1/yr
TB-AGE-yr	4+	yr	F40%-1/T	0.087	1/T
A50-yr	11.3	yr	SSBmsy-MT (SSB)	15511	MT
L50-cm	42.8	cm	SSBF40%-MT	17727	MT
M-1/yr	0.07	1/yr	F_{2007}/F_{msy}	0.542	
NATMORT-1/yr	0.07	1/yr	SSB_{2007}/SSB_{msy}	1.541	
F-AGE-yr					
M					

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.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/232>

Area ID: USA-NMFS-BSAI

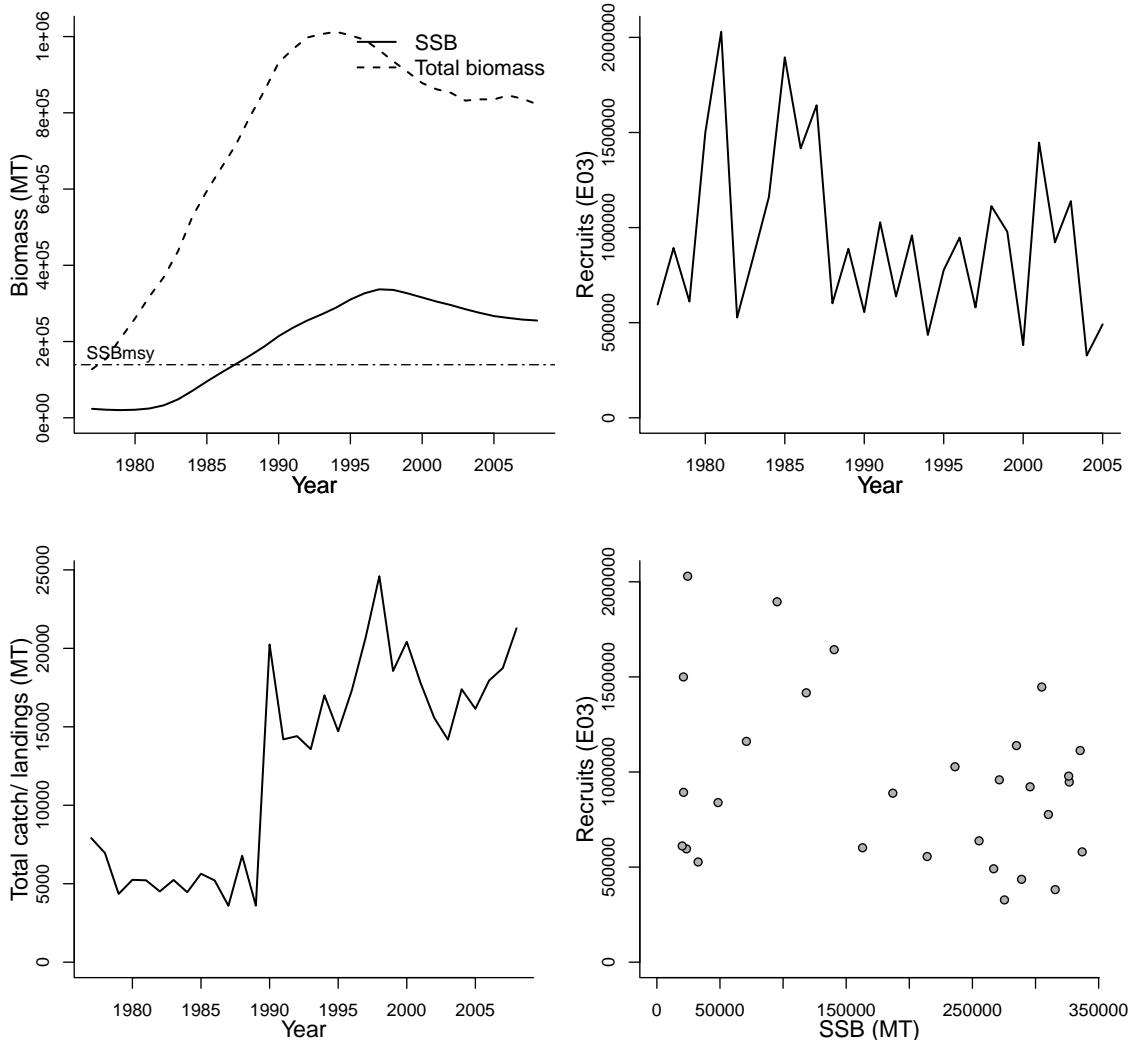
General assessment details.

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	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.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			1 - East Bering Sea	na	na
SSB-AGE-yr	3+	yr			
REC-AGE-yr	3	yr	SSBmsy-MT (SSB)	139188	MT
F-AGE-yr-yr		yr-yr	Fmsy-1/yr (F)	0.279	1/yr
TB-AGE-yr	3+	yr	SSB0-MT (SSB)	347,970	MT
M-1/yr	0.2	1/yr	SSBtarget-MT (SSB)	139188	MT
M			SSBmin-ratio (SSB)	0.35000143690548	ratio
A50-yr			Ftarget-1/yr (F)	0.279	1/yr
L50-cm			MSY-MT (TB)	121790	MT
			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

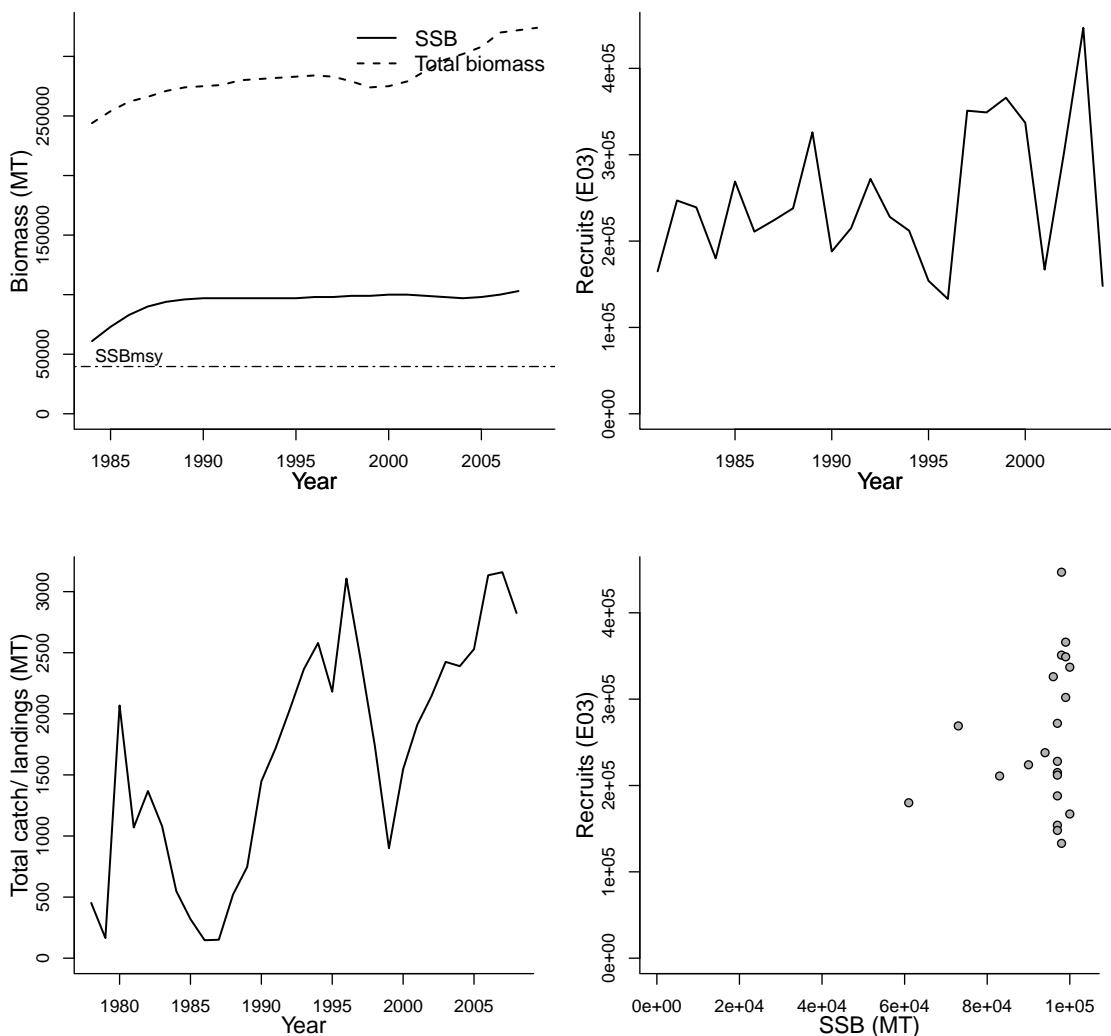
General assessment details.

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			
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					
			Reference points		
			Parameter	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
Minimum year	1984	1981		1984
Maximum year	2007	2004		2008
Time series minimum	61000	133000		244000
Time series maximum	103000	447000		324000
Units	MT	E03	MT	MT



Assessment of 0

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

Area ID:

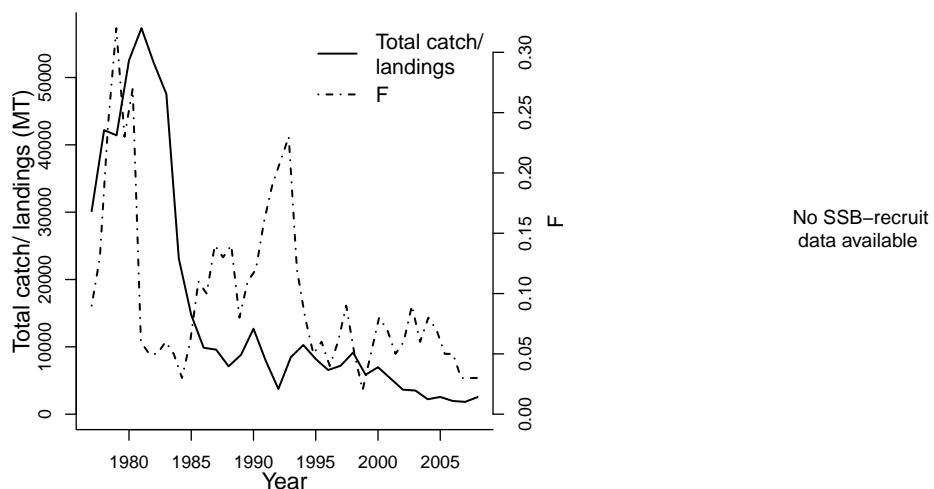
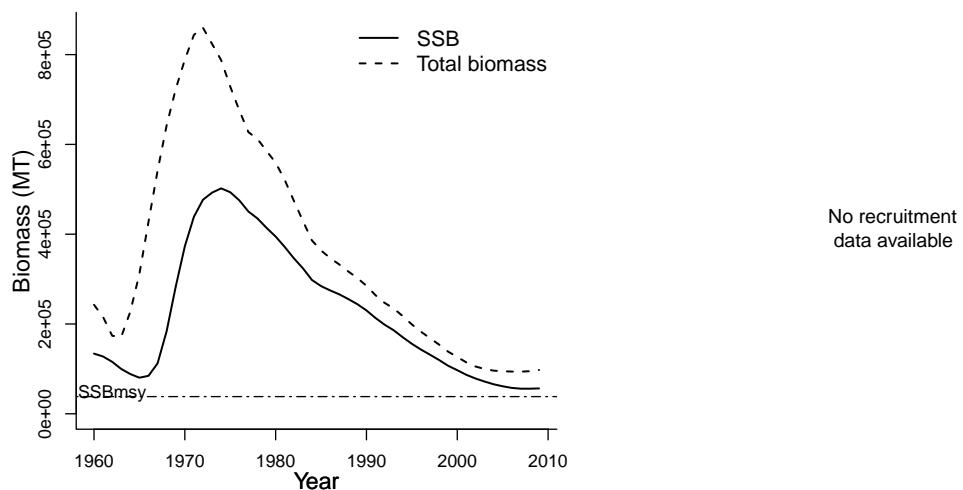
General assessment details.

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	./ (pdf not 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		
1 - East Bering Sea			na			na		
Parameter	Value	Units	Reference points					
			Parameter		Value		Units	
SSB-AGE-yr	1+	yr	Fmsy-1/yr (F)		0.566		1/yr	
REC-AGE-yr	0+	yr	NATMORT-1/yr (M)		0.112		1/yr	
F-AGE-yr-yr	1+	yr-yr	F40%-1/T		0.462		1/T	
TB-AGE-yr	1+	yr	SSBmsy-MT (SSB)		38265		MT	
M-1/yr	0.112	1/yr	$F_{2007}/F_{m_{sy}}$		0.053			
NATMORT-1/yr	0.112	1/yr	$SSB_{2009}/SSB_{m_{sy}}$		1.477			
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.

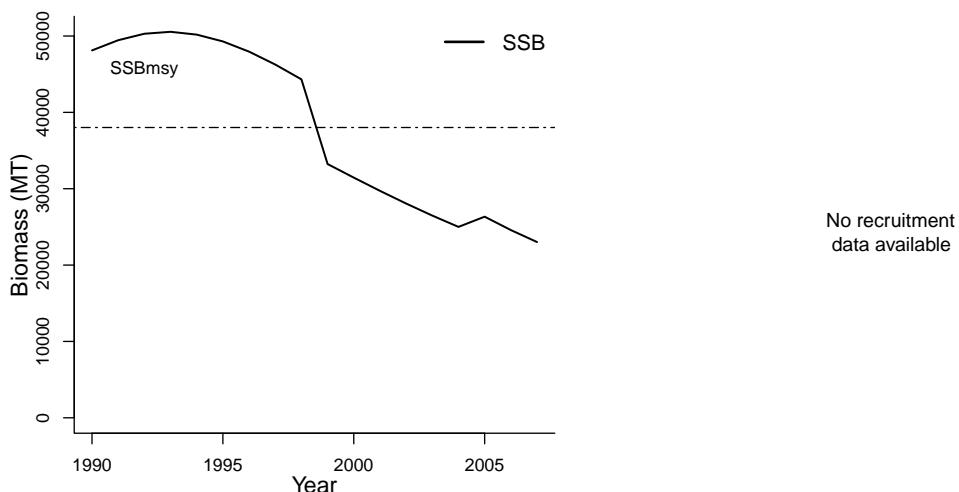
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	An AD-Model Builder catch at length model
Publication year	2008
Timeseries span	1990-2007
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-02-12
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
1 - East Bering Sea	na	na
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
SSB _m sy-MT (SSB)	38018	MT
SSB ₂₀₀₇ /SSB _m sy	0.605	

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.

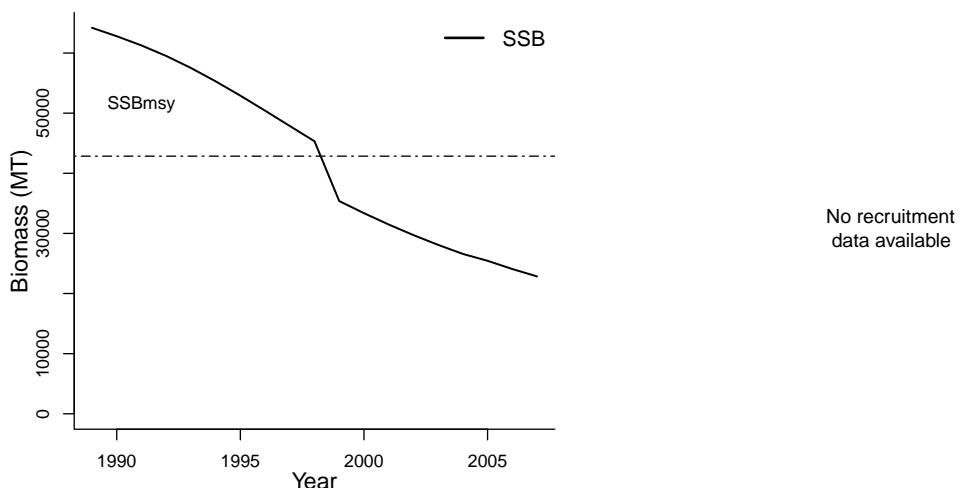
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	An AD-Model Builder catch at length model
Publication year	2008
Timeseries span	1989-2007
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2009-05-25
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
1 - East Bering Sea	na	na
Parameter	Value	Units
<hr/>		
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Parameter	Value	Units	Reference points
SSB _m sy-MT (SSB)	42848	MT	Parameter
$SSB_{2007}/SSB_{m sy}$	0.533		Value
			Units

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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/255>

Area ID: USA-NMFS-BSAI

General assessment details.

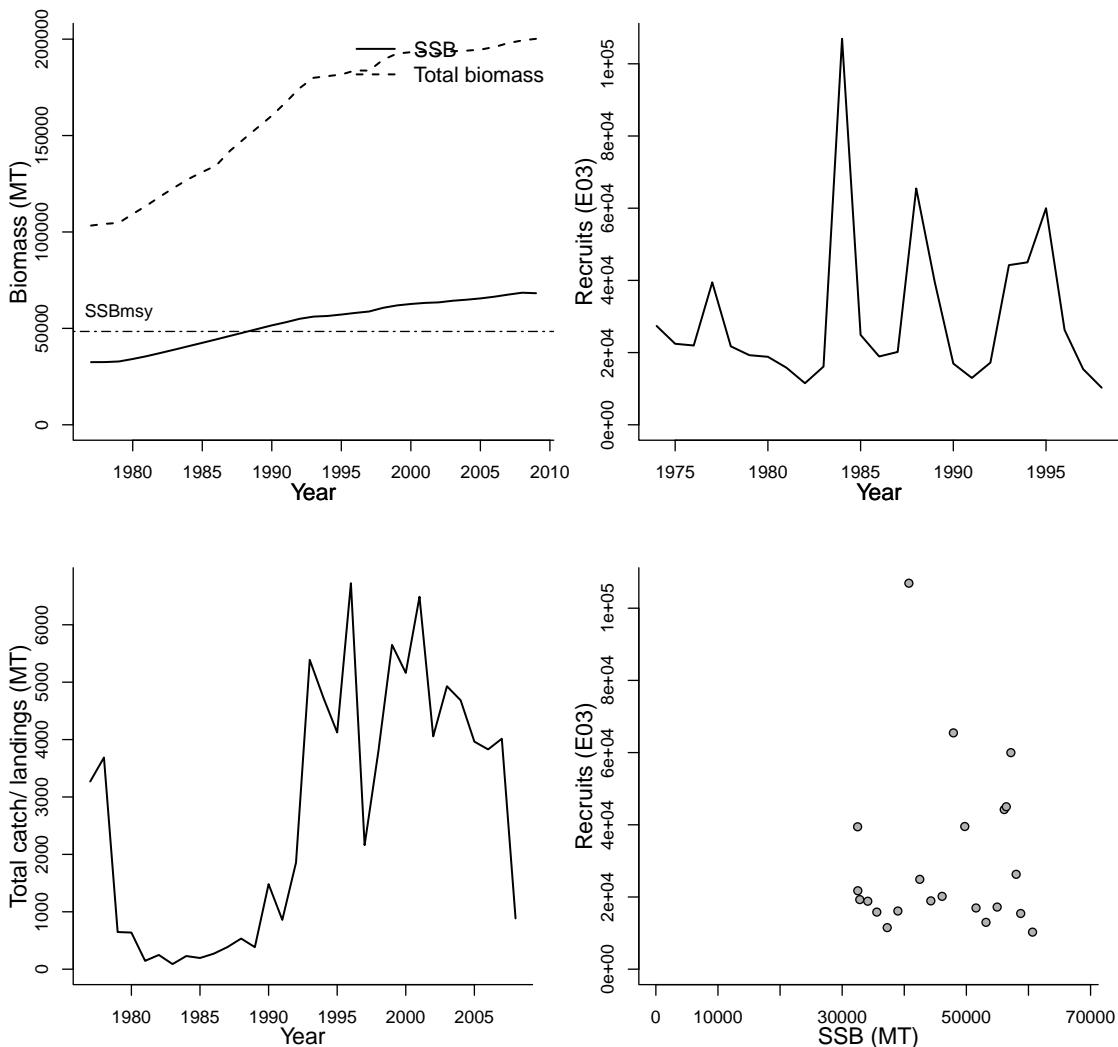
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Spencer, P.D.
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1974-2009
Document	2008-SAFE_BSAInorthern.pdf (pdf not in database)
Recorder	STANTON
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			
REC-AGE-yr	3	yr			
F-AGE-yr-yr	3+	yr-yr	Parameter	Value	Units
TB-AGE-yr	3+	yr	Fmsy-1/yr (F)	0.0511	1/yr
M-1/yr	0.041	1/yr	SSBmsy-MT (SSB)	48399	MT
M			SSB ₂₀₀₉ /SSB _{msy}	1.410	
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

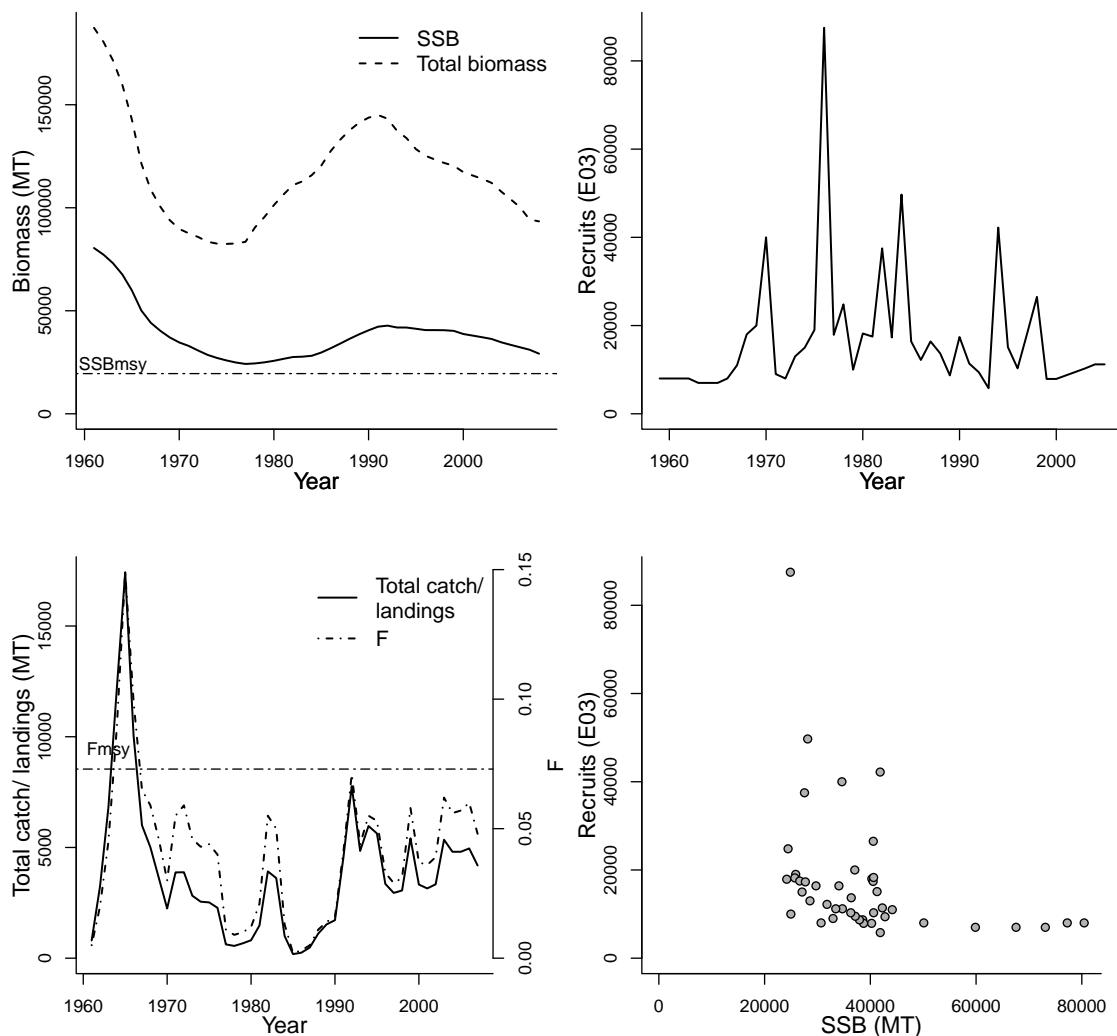
General assessment details.

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	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
REC-AGE-yr	2	yr	Fmsy-1/yr (F)	0.073	1/yr
F-AGE-yr-yr	2-22+	yr-yr	NATMORT-1/yr (M)	0.06	1/yr
TB-AGE-yr	2+	yr	F40%-1/T	0.061	1/T
A50-yr	13	yr	SSBmsy-MT (SSB)	19500	MT
L50-cm	36.1	cm	SSBF40%-MT	22300	MT
M-1/yr	0.06	1/yr	F_{2007}/F_{msy}	0.658	
NATMORT-1/yr	0.06	1/yr	SSB_{2008}/SSB_{msy}	1.496	
SSB-AGE-yr					
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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/238>

Area ID: USA-NMFS-EBSAI

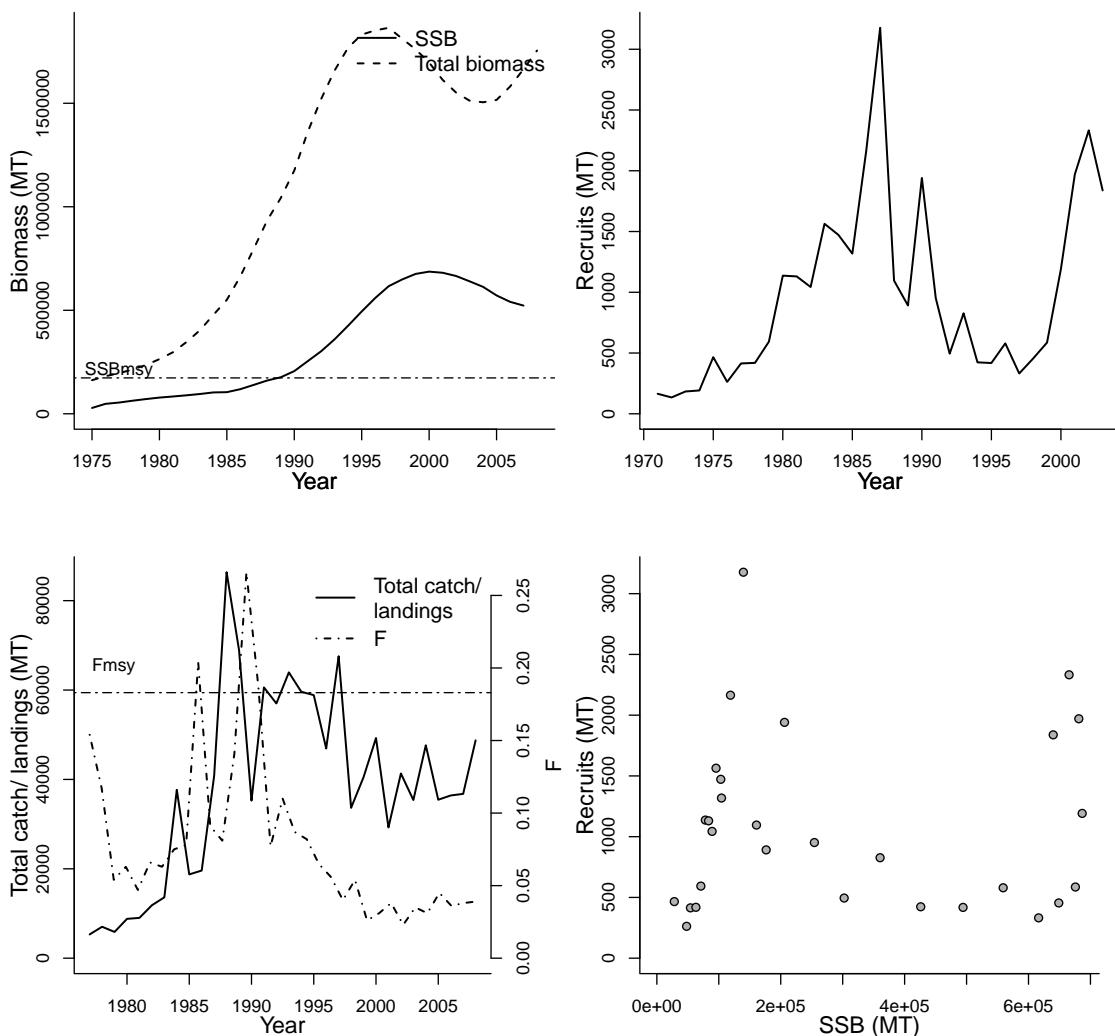
General assessment details.

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
REC-AGE-yr	4	yr	Fmsy-1/yr (F)	0.183	1/yr
F-AGE-yr-yr	2+	yr-yr	NATMORT-1/yr (M)	1.8	1/yr
TB-AGE-yr	2+	yr	F40%-1/T	0.149	1/T
M-1/yr	1.8	1/yr	SSBmsy-MT (SSB)	173320.00	MT
NATMORT-1/yr	1.8	1/yr	MSY-MT (TB)	300500.00	MT
M-1/yr	0.15	1/yr	NATMORT-1/yr (M)	0.15	1/yr
NATMORT-1/yr	0.15	1/yr	F_{2007}/F_{msy}	0.213	
M			SSB_{2007}/SSB_{msy}	3.015	
A50-yr					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1971	1975	1975	1977
Maximum year	2007	2003	2007	2008	2008
Time series minimum	28175	134.38	0.023	162245	5319
Time series maximum	686653	3176.54	0.266	1864490	86366
Units	MT	MT	1/yr	MT	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.

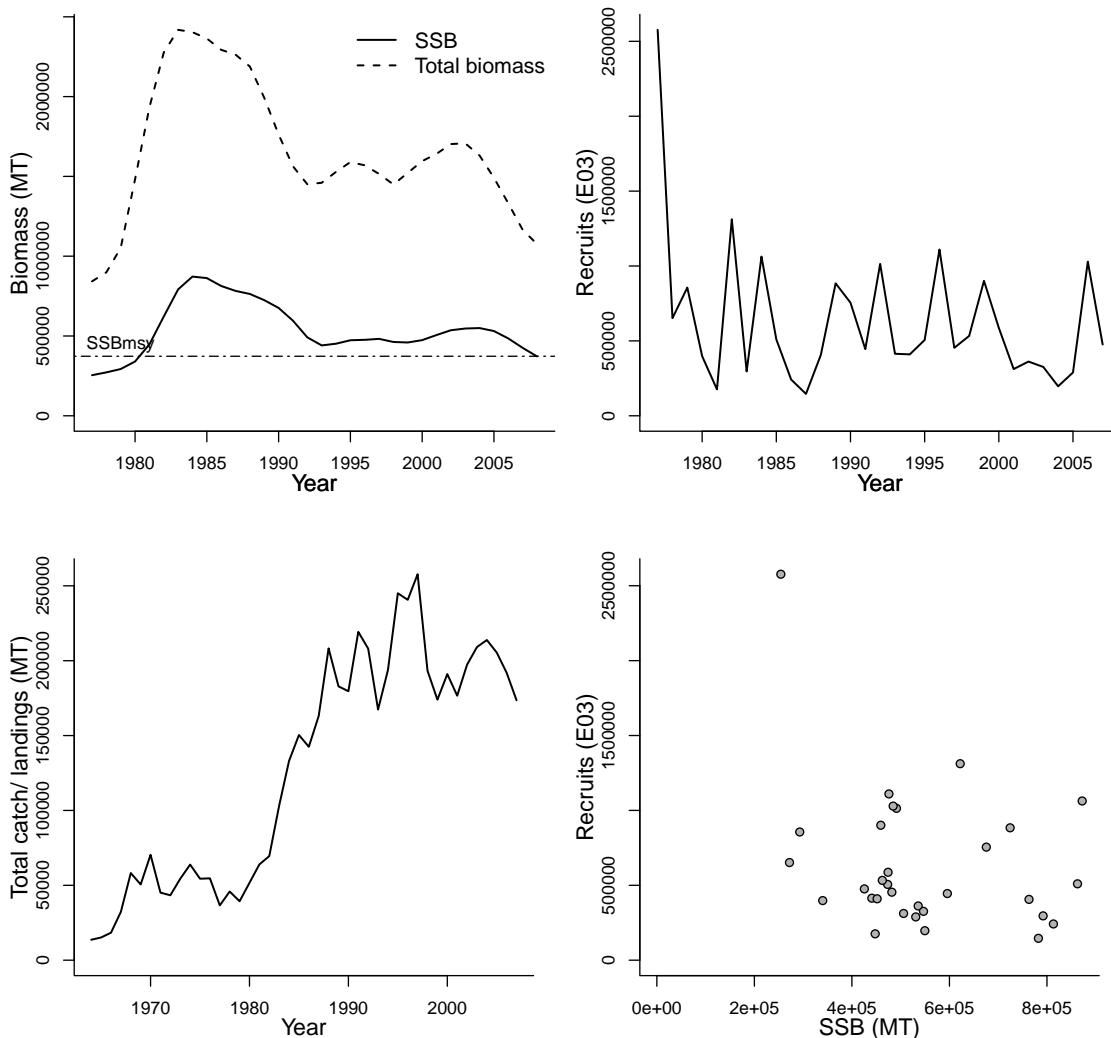
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Thompson G
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1964-2008
Document	AFSC-PCODBSAI-2008-Pacific cod BSAI.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2009-05-21
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
1 - East Bering Sea			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	0	yr	Parameter	Value	Units
F-AGE-yr-yr	0+	yr-yr	Fmsy-1/yr (F)	0.34	1/yr
TB-AGE-yr	0+	yr	NATMORT-1/yr (M)	0.34	1/yr
A50-yr	4.9	yr	F40%-1/T	0.28	1/T
L50-cm	58	cm	SSBmsy-MT (SSB)	373000	MT
M-1/yr	0.34	1/yr	SSBF40%-MT	426000	MT
NATMORT-1/yr	0.34	1/yr	SSB0-MT (SSB)	1066000.00	MT
SSB-AGE-yr			SSB ₂₀₀₈ /SSB _{msy}	0.997	
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

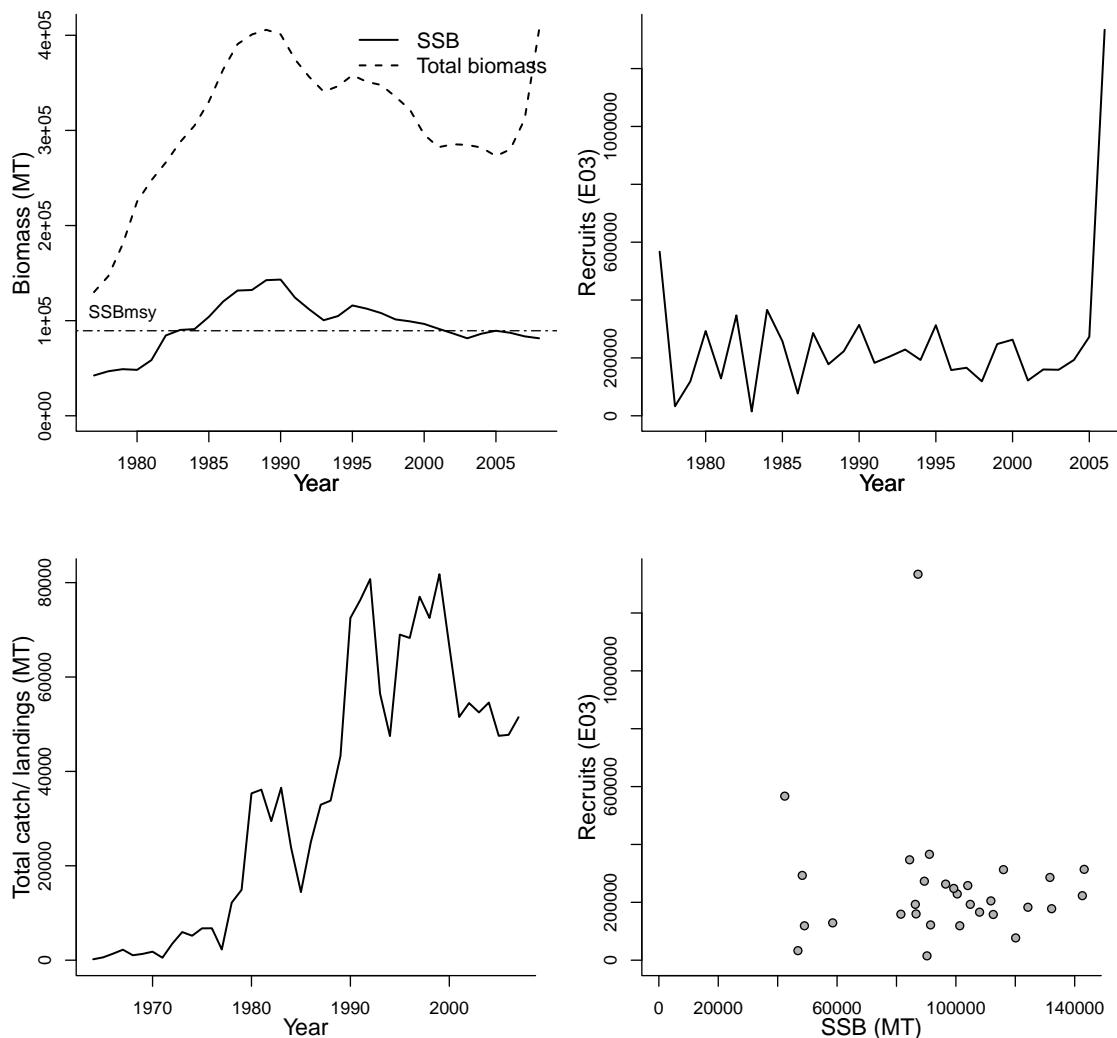
General assessment details.

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	2009-05-22
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-AGE-yr	4.3	yr	Parameter	Value	Units			
REC-AGE-yr	0	yr	Fmsy-1/yr (F)	0.64	1/yr			
TB-AGE-yr	0+	yr	NATMORT-1/yr (M)	0.38	1/yr			
A50-yr	4.3	yr	F40%-1/T	0.52	1/T			
L50-cm	58	cm	SSBmsy-MT (SSB)	89400	MT			
M-1/yr	0.38	1/yr	SSBF40%-MT	102200	MT			
NATMORT-1/yr	0.38	1/yr	SSB ₂₀₀₈ /SSB _{m sy}	0.911				
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

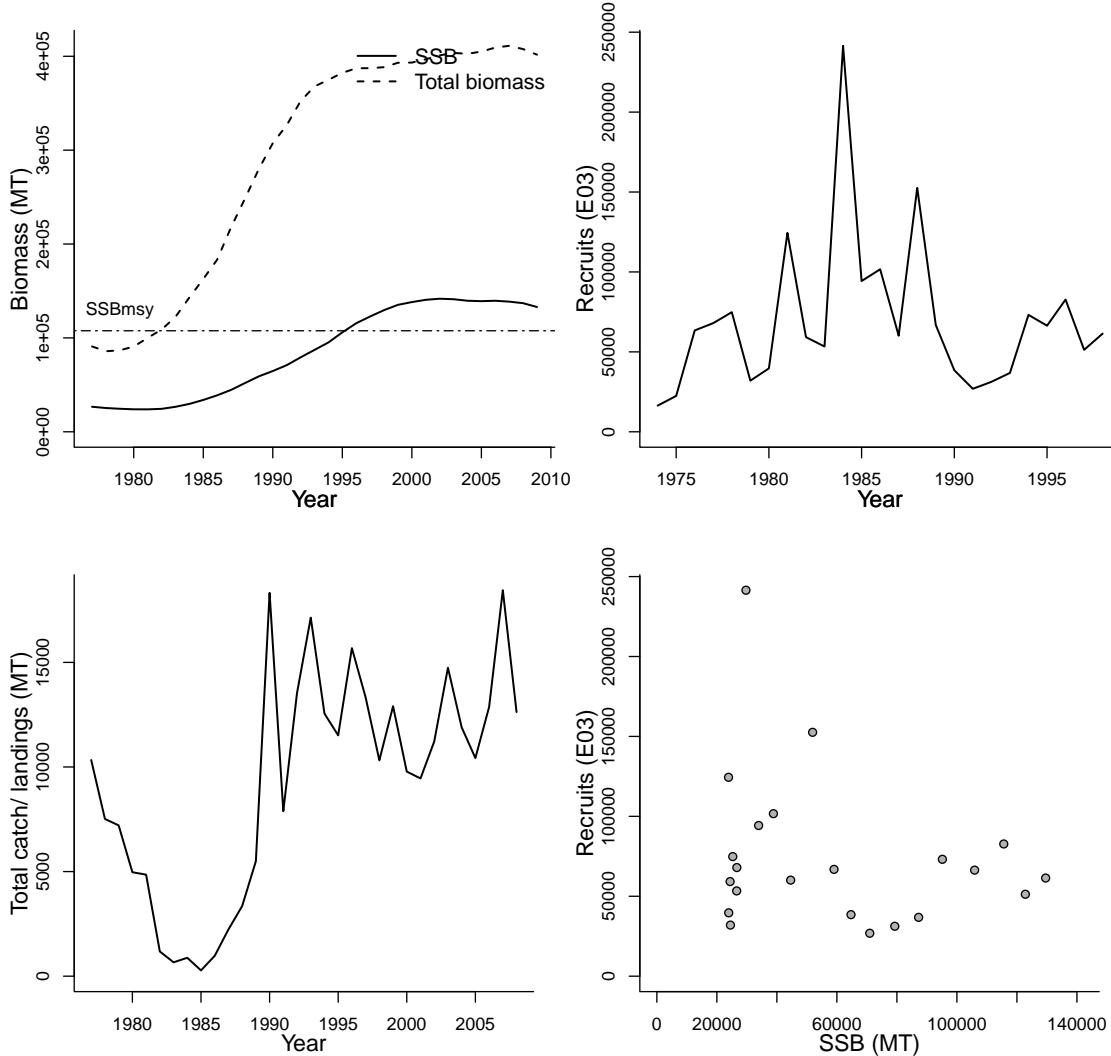
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			1 - East Bering Sea	na	na
SSB-AGE-yr	3+	yr			
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	Value	Units	Reference points
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	Catch
Minimum year	1977	1974		1977	1977
Maximum year	2009	1998		2009	2008
Time series minimum	23886	16346		85794	277
Time series maximum	141752	241476		411164	18450
Units	MT	E03		MT	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

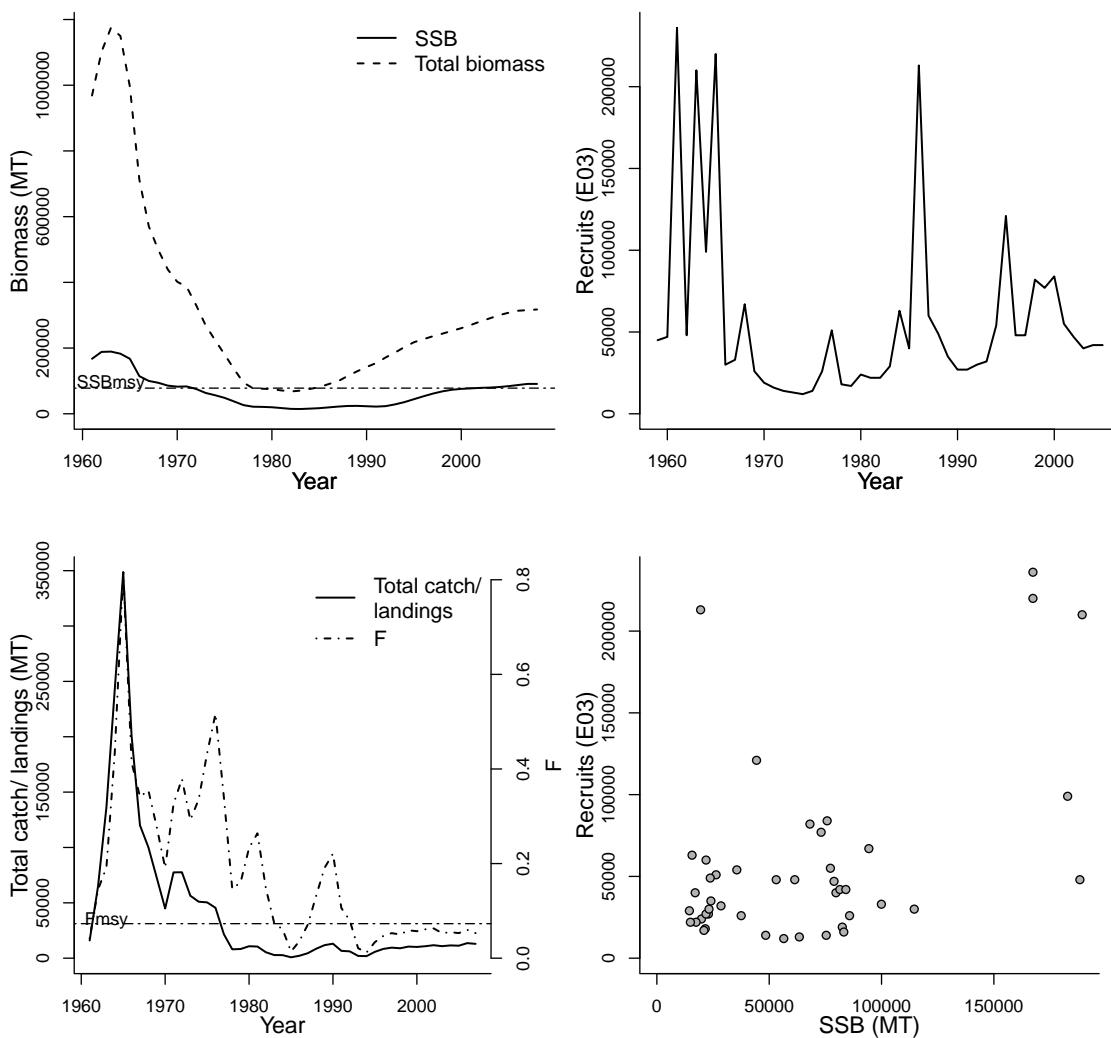
General assessment details.

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	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)	0.073	1/yr
REC-AGE-yr	2	yr	NATMORT-1/yr (M)	0.06	1/yr
TB-AGE-yr	2+	yr	F40%-1/T	0.061	1/T
A50-yr	10.5	yr	SSBmsy-MT (SSB)	78045	MT
M-1/yr	0.06	1/yr	SSBF40%-MT	89195	MT
NATMORT-1/yr	0.06	1/yr	F_{2007}/F_{msy}	0.726	
F-AGE-yr			SSB_{2008}/SSB_{msy}	1.165	
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 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

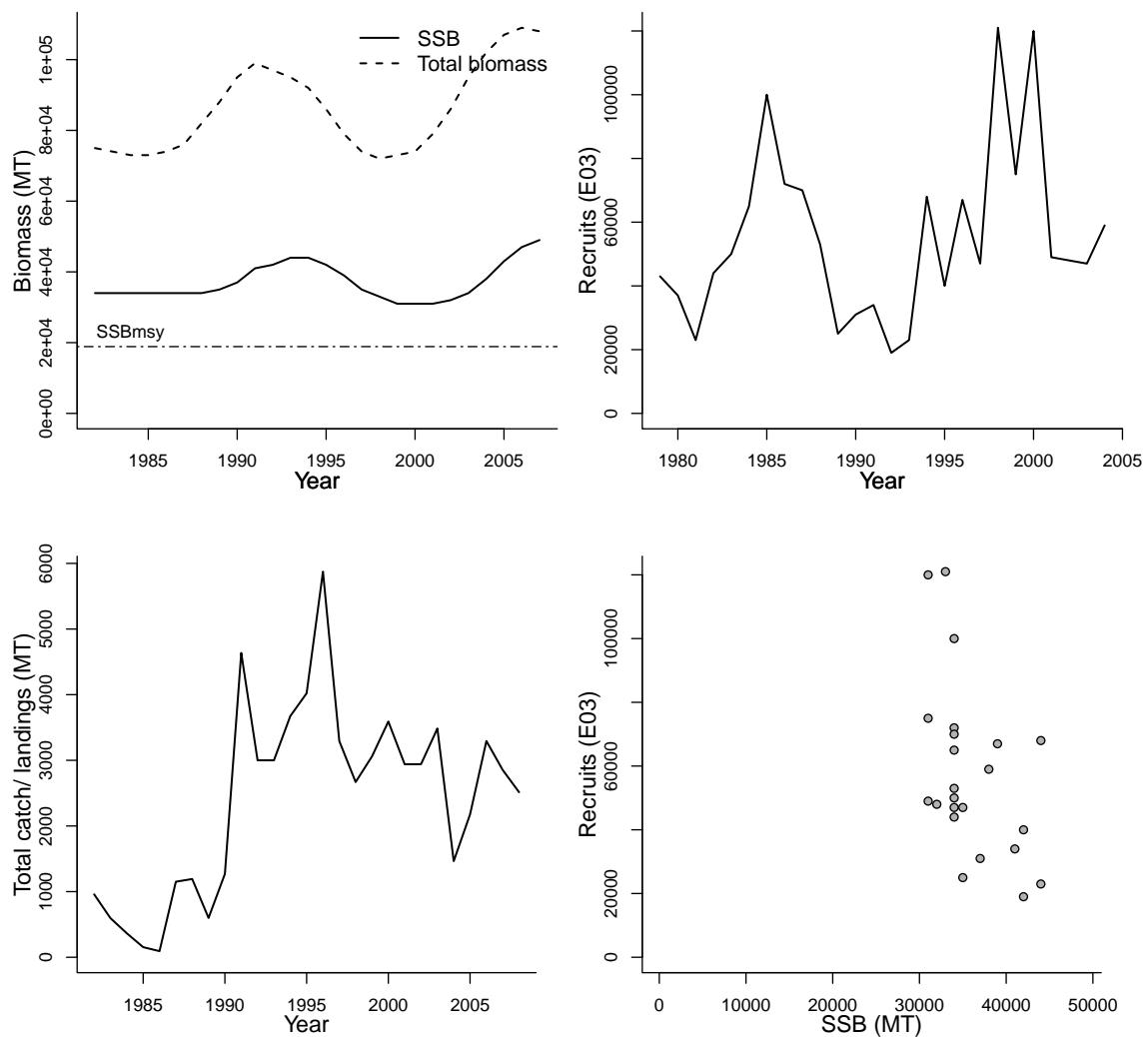
General assessment details.

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	2008-SAFE_GOArex.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.

primary LME			secondary LME		tertiary LME			
2 - Gulf of Alaska			na	na				
Parameter	Value	Units	Reference points					
SSB-AGE-yr	3+	yr	Parameter		Value	Units		
REC-AGE-yr	3	yr	Fmsy-1/yr (F)		10.23	1/yr		
TB-AGE-yr	3+	yr	NATMORT-1/yr (M)		0.17	1/yr		
M-1/yr	0.17	1/yr	F40%-1/T		4.78	1/T		
NATMORT-1/yr	0.17	1/yr	SSBmsy-MT (SSB)		18877	MT		
F-AGE-yr			SSB ₂₀₀₇ /SSB _{m sy}		2.596			
M								
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 (*Sebastes 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.

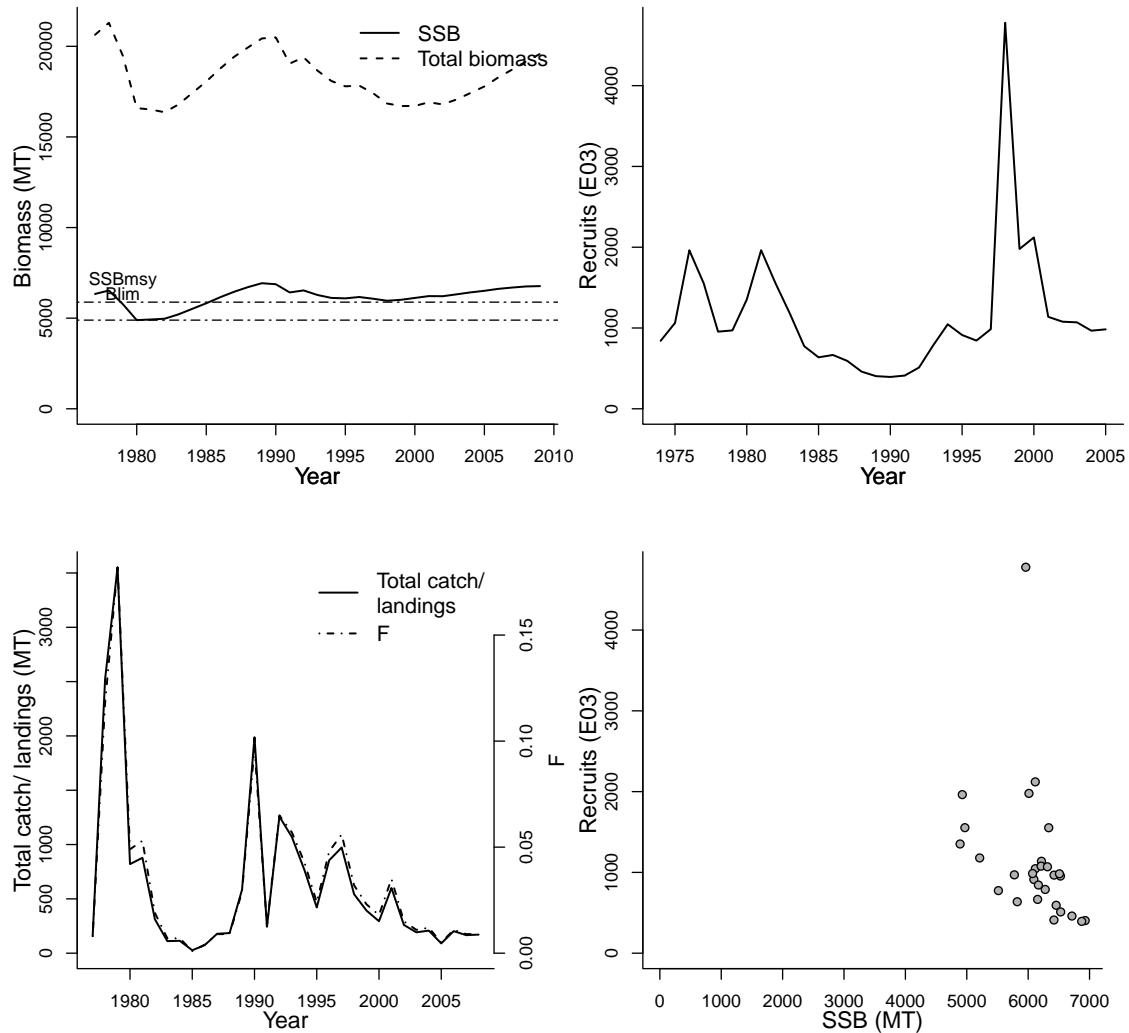
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Spencer PD
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1974-2009
Document	2008 SAFE BSAIrougheye.pdf (pdf in database)
Recorder	STANTON
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
REC-AGE-yr	3	yr	Blim-MT (SSB)	4891	MT
F-AGE-yr-yr	3+	yr-yr	SSB _m sy-MT (SSB)	5883	MT
TB-AGE-yr	3+	yr	SSB0-MT (SSB)	16808	MT
A50-yr	19	yr	SSB_{2009}/B_{lim}	1.384	
M			$SSB_{2009}/SSB_{m,sy}$	1.151	
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

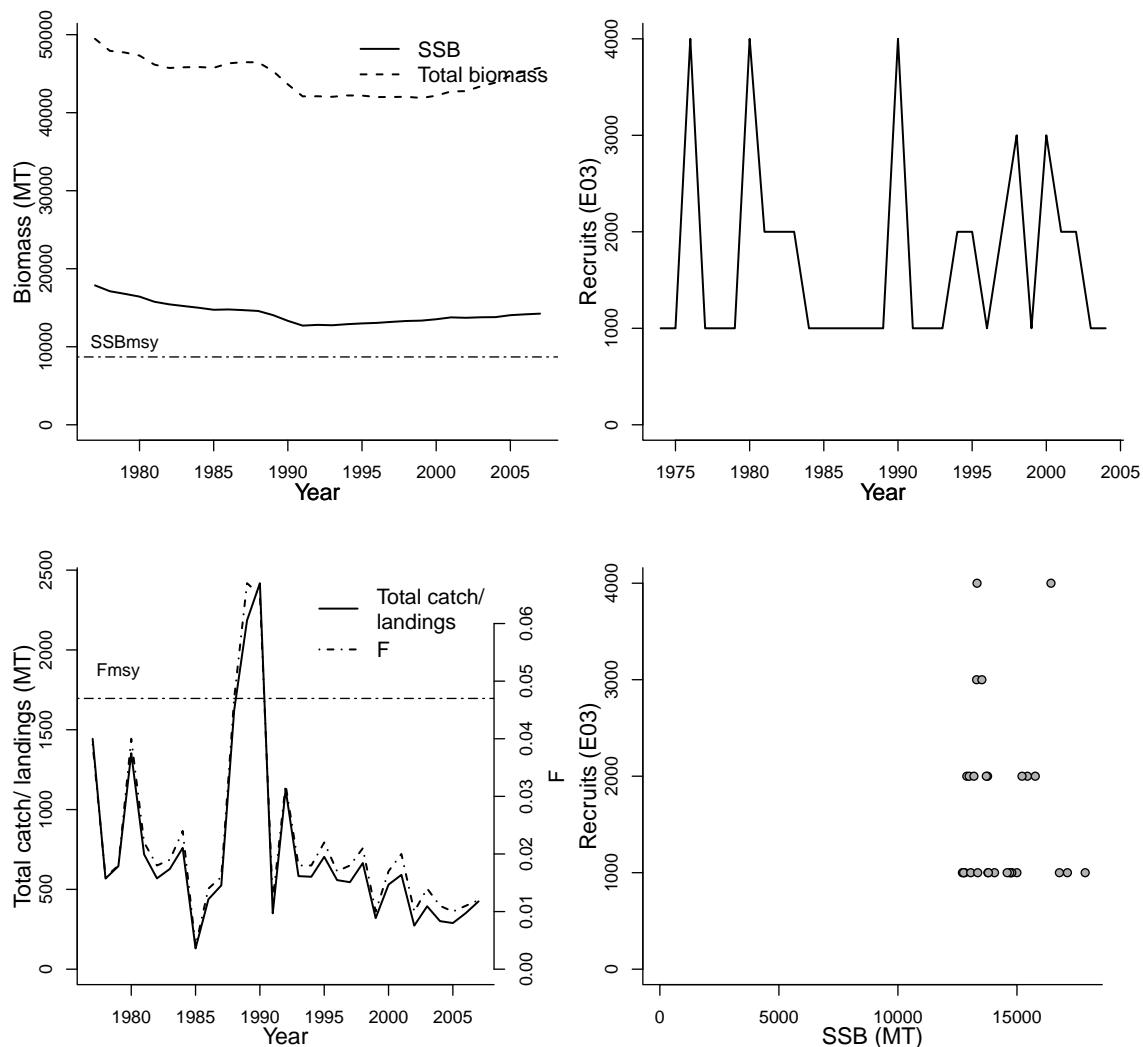
General assessment details.

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	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
REC-AGE-yr	3	yr	Fmsy-1/T (F)	0.047	1/T
TB-AGE-yr	3+	yr	NATMORT-1/yr (M)	0.034	1/yr
A50-yr	19	yr	F40%-1/T	0.039	1/T
L50-cm	43.9	cm	SSBmsy-MT (SSB)	8694	MT
M-1/yr	0.034	1/yr	SSBF40%-MT	9935	MT
NATMORT-1/yr	0.034	1/yr	F_{2007}/F_{msy}	0.255	
SSB-AGE-yr	19	yr	SSB_{2007}/SSB_{msy}	1.638	
M					

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

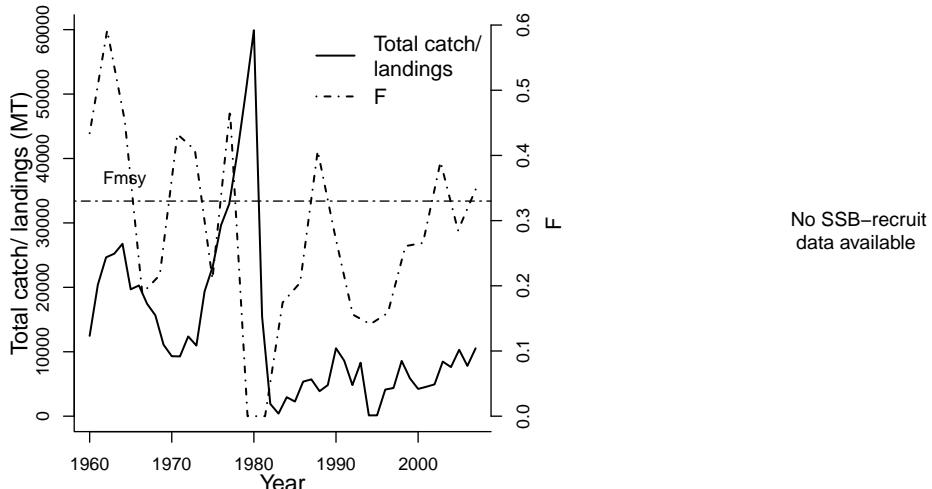
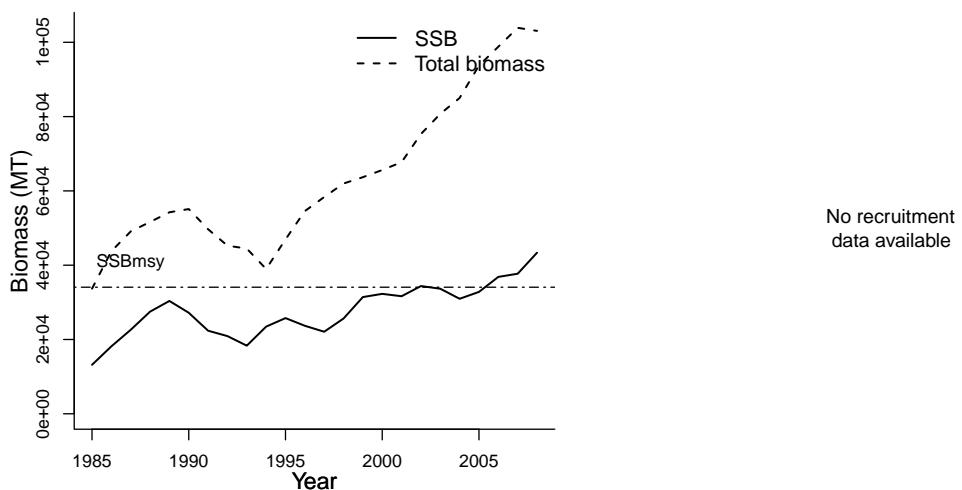
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
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	2009-06-12
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		Units
SSB-AGE-yr			Fmsy-1/T (F)			0.33		1/T
TB-AGE-yr			SSBmssy-MT (SSB)			34070		MT
F-AGE-yr			F_{2007}/F_{mssy}			1.054		
M			SSB_{2008}/SSB_{mssy}			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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/263>

Area ID: USA-NMFS-NS

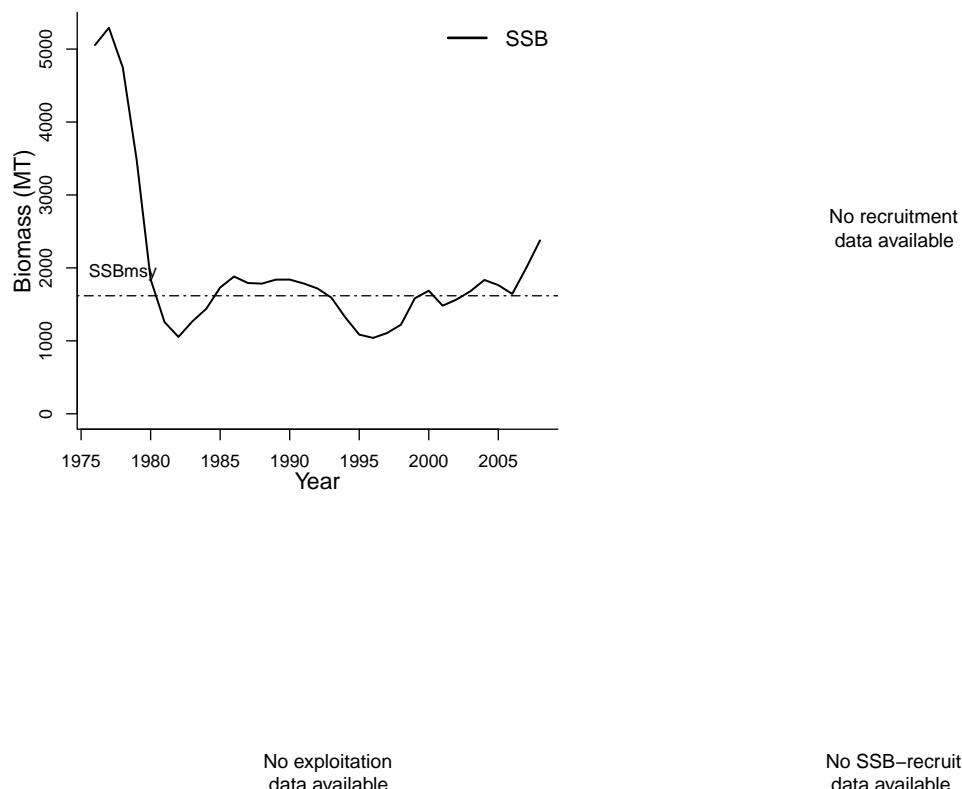
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
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	2010-02-12
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	
1 - East Bering Sea	na	na		
Parameter	Value	Units	Reference points	
REC-AGE			Parameter	Value
SSB-AGE-yr				Units
TB-AGE-yr			SSB _{m^sy} -MT (SSB)	1617.96
F-AGE-yr			SSB ₂₀₀₈ /SSB _{m^sy}	1.469
M				
A50-yr				
L50-cm				

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.

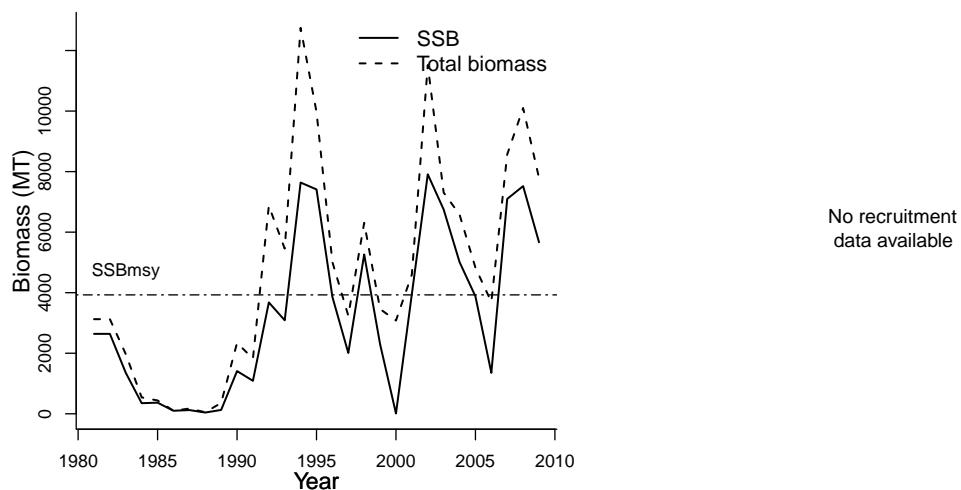
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1981-2009
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2009-06-12
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			
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points		
Parameter	Value	Units
SSB _m sy-MT (SSB)	3928.11	MT
SSB ₂₀₀₉ /SSB _m sy	1.442	

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.

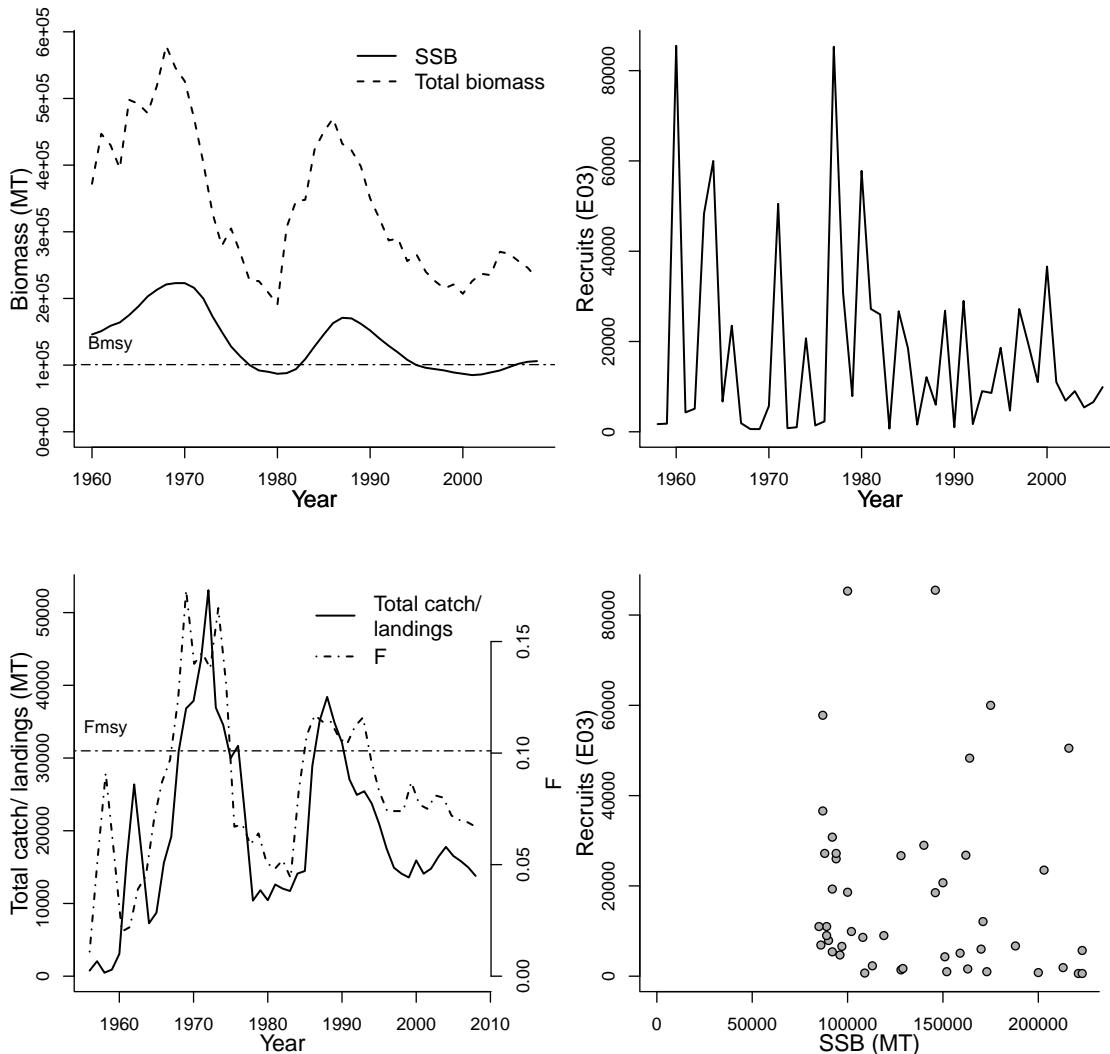
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Hanselman D
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1956-2008
Document	AFSC-SABLEFEBSAIGA-2008-Sablefish EBS AI GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2009-05-20
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		
1 - East Bering Sea			2 - Gulf of Alaska			na		
Parameter	Value	Units	Parameter	Reference points	Value	Parameter	Value	Units
SSB-AGE-yr	6.5	yr	Fmsy-1/yr (F)		0.101	1/yr		
REC-AGE-yr	2	yr	NATMORT-1/yr (M)		0.1	1/yr		
TB-AGE-yr	4+	yr	F40%-1/T		0.085	1/T		
A50-yr	6.5	yr	MSY-MT (TB)		19000	MT		
L50-cm	65	cm	Bmsy-MT (TB)		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		
F-AGE-yr			TB_{2008}/B_{msy}		2.283			
M			F_{2008}/F_{msy}		0.663			

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

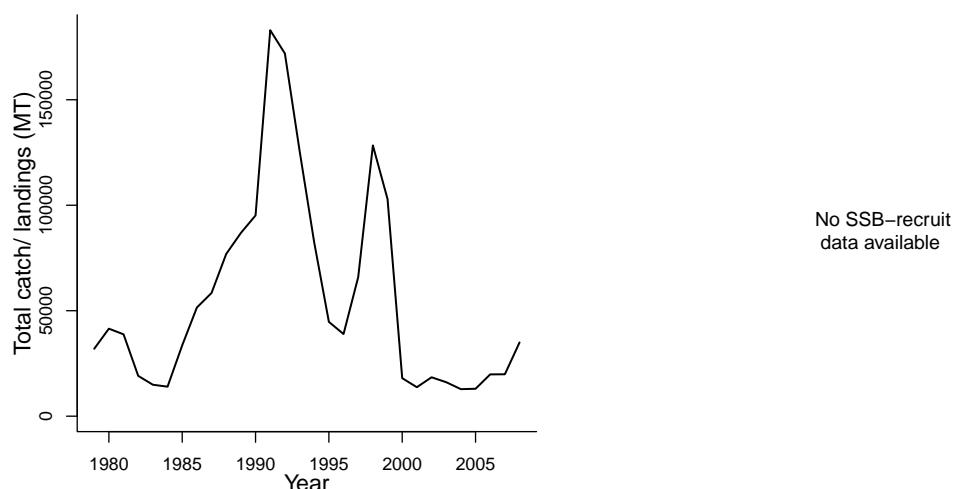
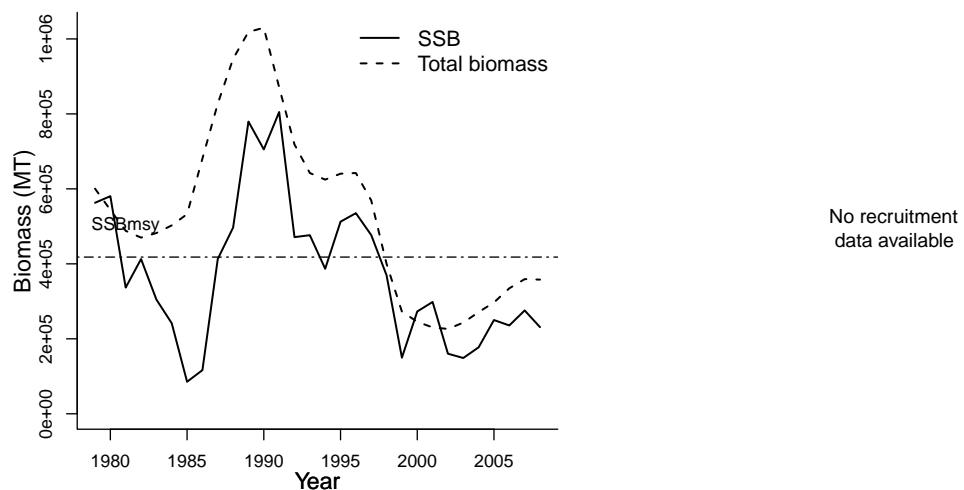
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
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	2009-05-25
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
1 - East Bering Sea	na	na	
<hr/>			
Parameter	Value	Units	
REC-AGE			Reference points
SSB-AGE-yr			Parameter
TB-AGE-yr			Value
F-AGE-yr			Units
M			SSB _{msy} -MT (SSB)
A50-yr			418030.728
L50-cm			MT
			SSB ₂₀₀₈ /SSB _{msy}
			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

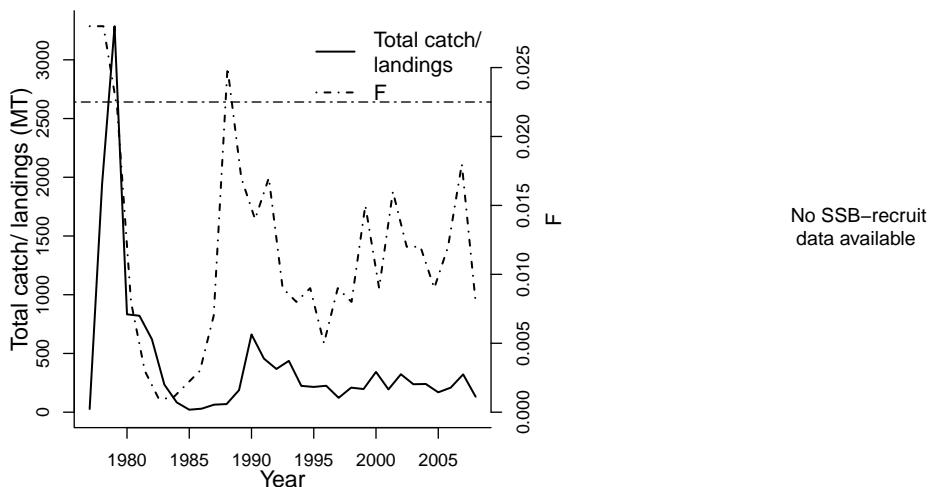
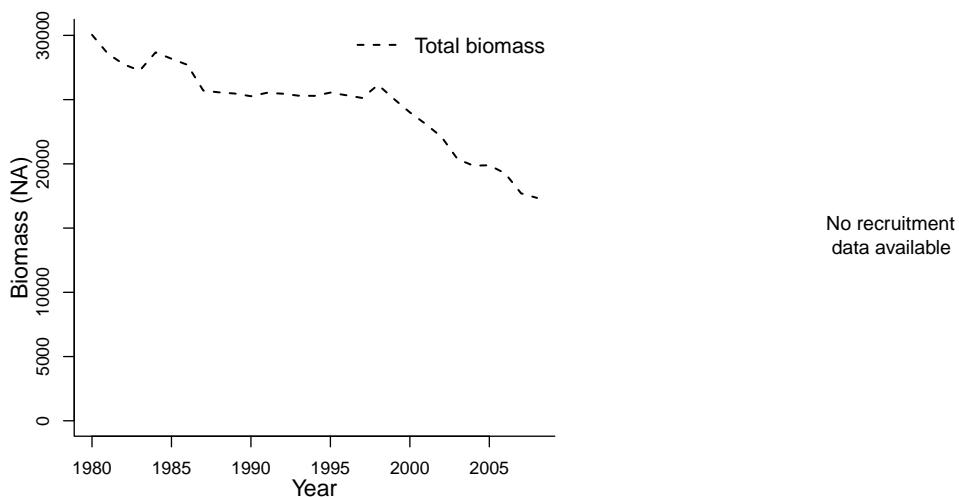
General assessment details.

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		
TB-AGE-yr	0+	yr	Parameter	Value	Units
M-1/yr	0.03	1/yr	SSBmsy-MT (SSB)	139188	MT
REC-AGE			Flim-1/yr (F)	0.03	1/yr
SSB-AGE-yr			Fmsy-1/yr (F)	0.0225	1/yr
F-AGE-yr			Fpa-1/yr (F)	0.0225	1/yr
M			F_{2008}/F_{lim}	0.267	
A50-yr			F_{2008}/F_{msy}	0.356	
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

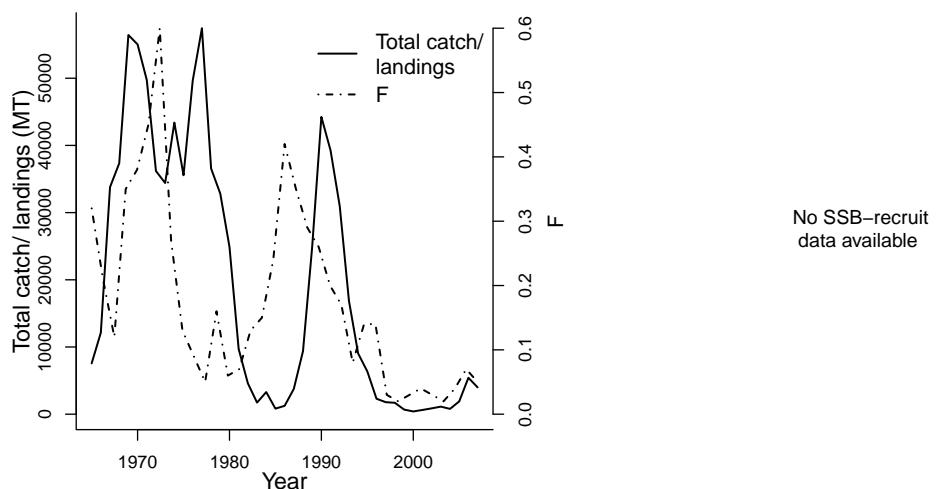
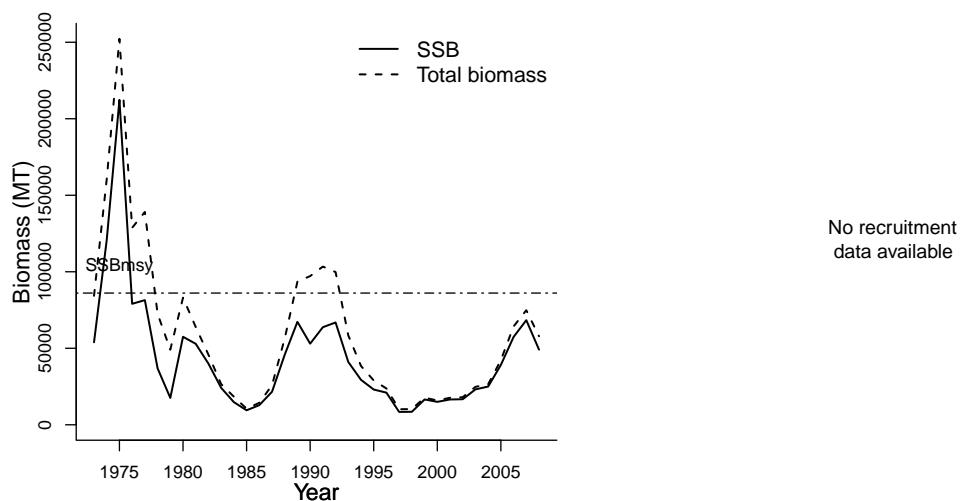
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
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	2009-06-12
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				Units
TB-AGE-yr			SSB _m sy-MT (SSB)	86073.62
F-AGE-yr			SSB ₂₀₀₈ /SSB _m 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

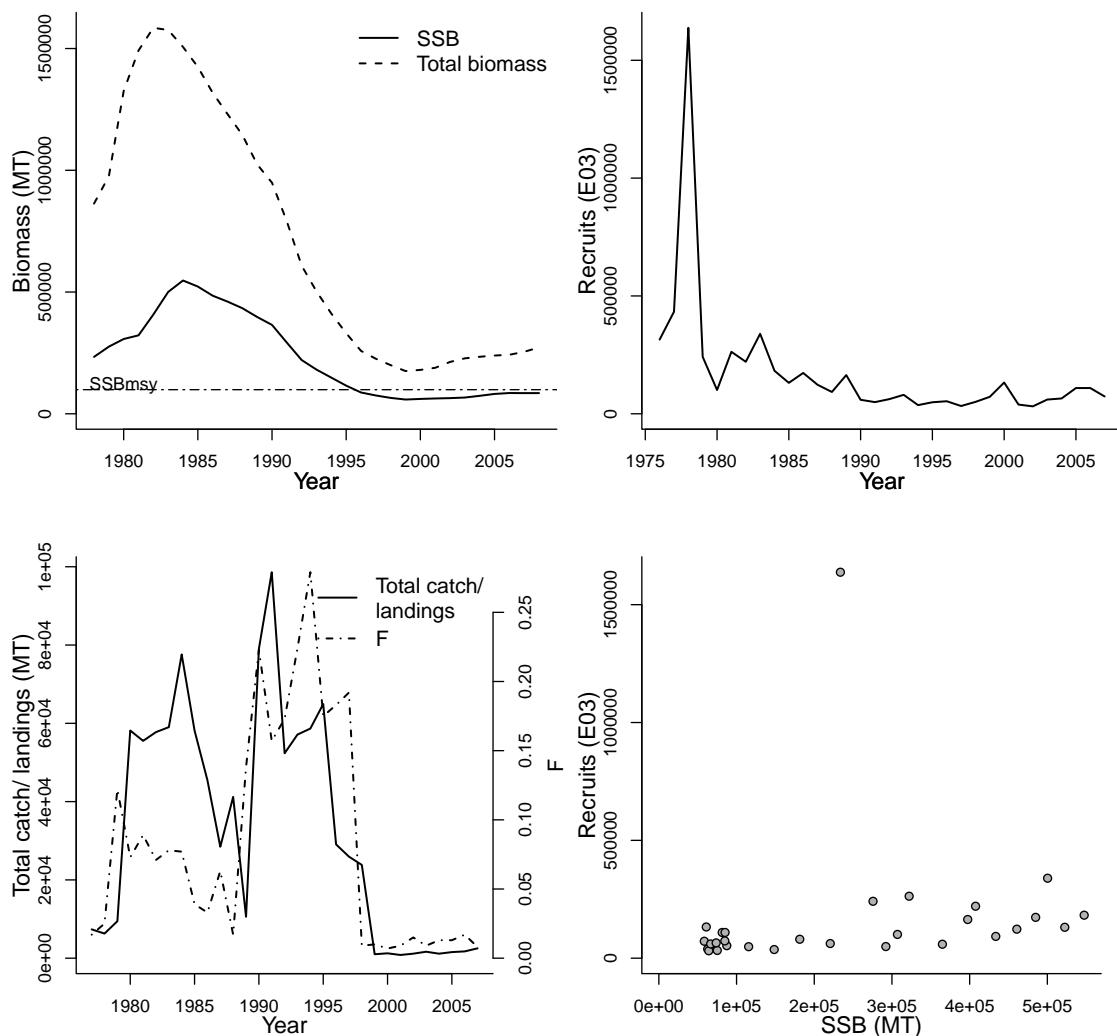
General assessment details.

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

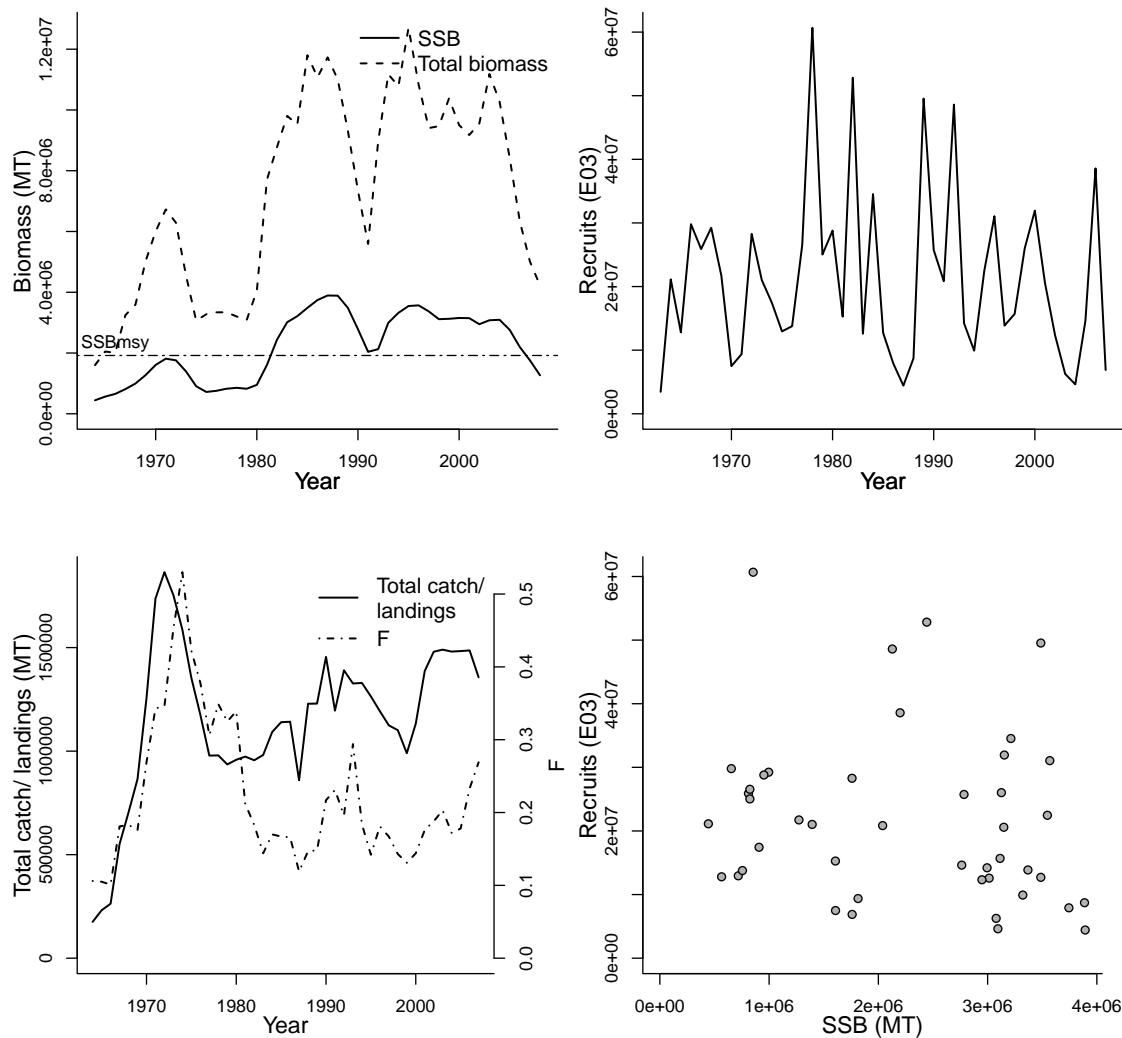
General assessment details.

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	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
1 - East Bering Sea			na	na	
Parameter	Value	Units	Parameter	Reference points	
SSB-AGE-yr	3.5	yr	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	SSBO-MT (SSB)	4,980,000	MT
NATMORT-1/yr	0.3	1/yr	SSBF40%-MT	2427000	MT
M			BH-h-dimless	0.67	dimless
L50-cm			SSB ₂₀₀₈ /SSB _{msy}	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.

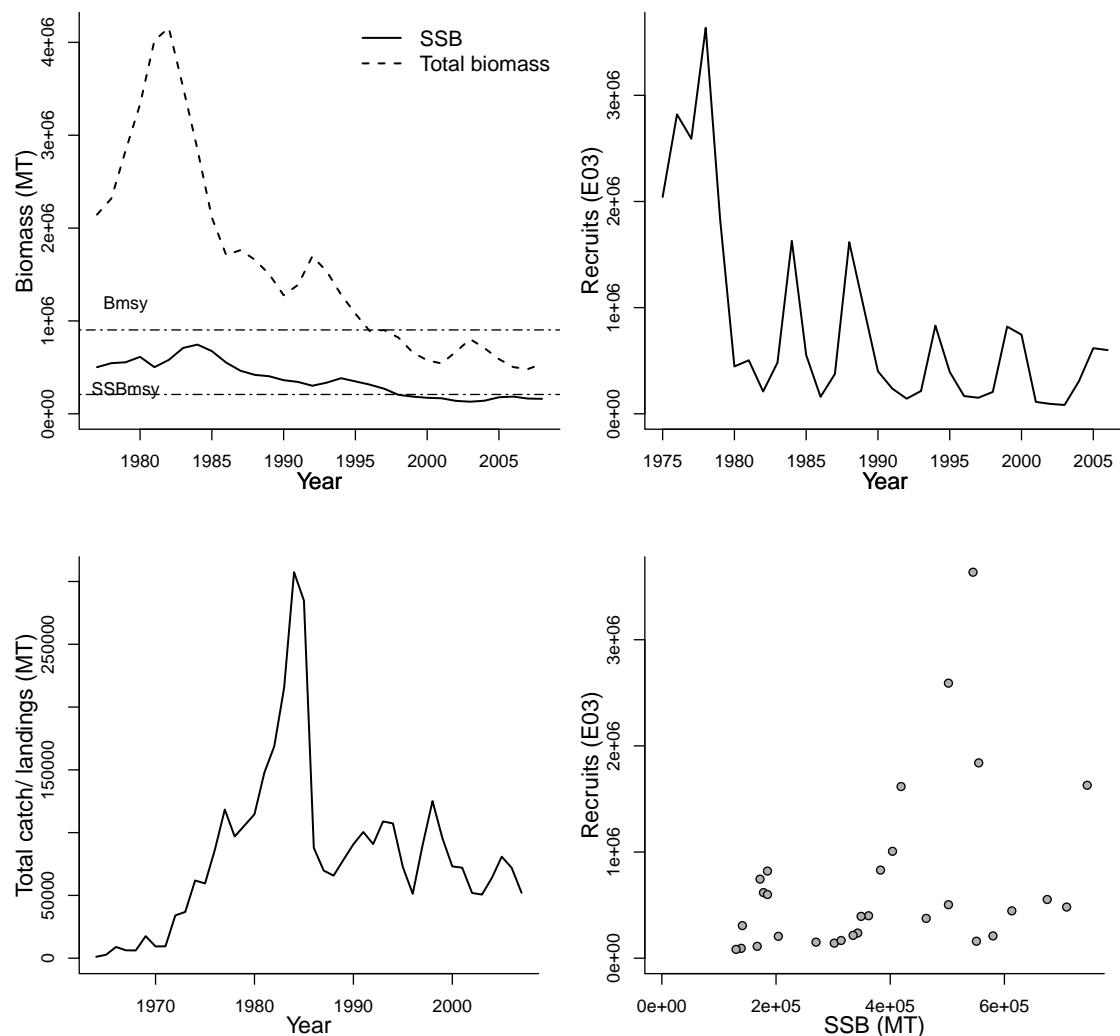
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Dorn, Martin
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1964-2008
Document	AFSC-WPOLLGA-2008-Walleye pollock GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-16
Date last loaded	2009-05-22
QA/QC complete	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			
			Parameter	Value	Units	
SSB-AGE-yr	4.9	yr	Fmsy-1/yr (F)	0.286	1/yr	
REC-AGE-yr	2	yr	NATMORT-1/yr (M)	0.3	1/yr	
TB-AGE-yr	3+	yr	F40%-1/T	0.245	1/T	
A50-yr	4.9	yr	SSBmsy-MT (SSB)	208000	MT	
L50-cm	43	cm	MSY-MT (TB)	169000	MT	
M-1/yr	0.3	1/yr	Umsy-ratio (U)	0.187	ratio	
NATMORT-1/yr	0.3	1/yr	Bmsy-MT (TB)	903000	MT	
F-AGE-yr			SSBF40%-MT	237000	MT	
M			BF40%-MT	975000	MT	
			U40%-ratio	0.161	ratio	
			TB_{2008}/B_{msy}	2.582		
			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.

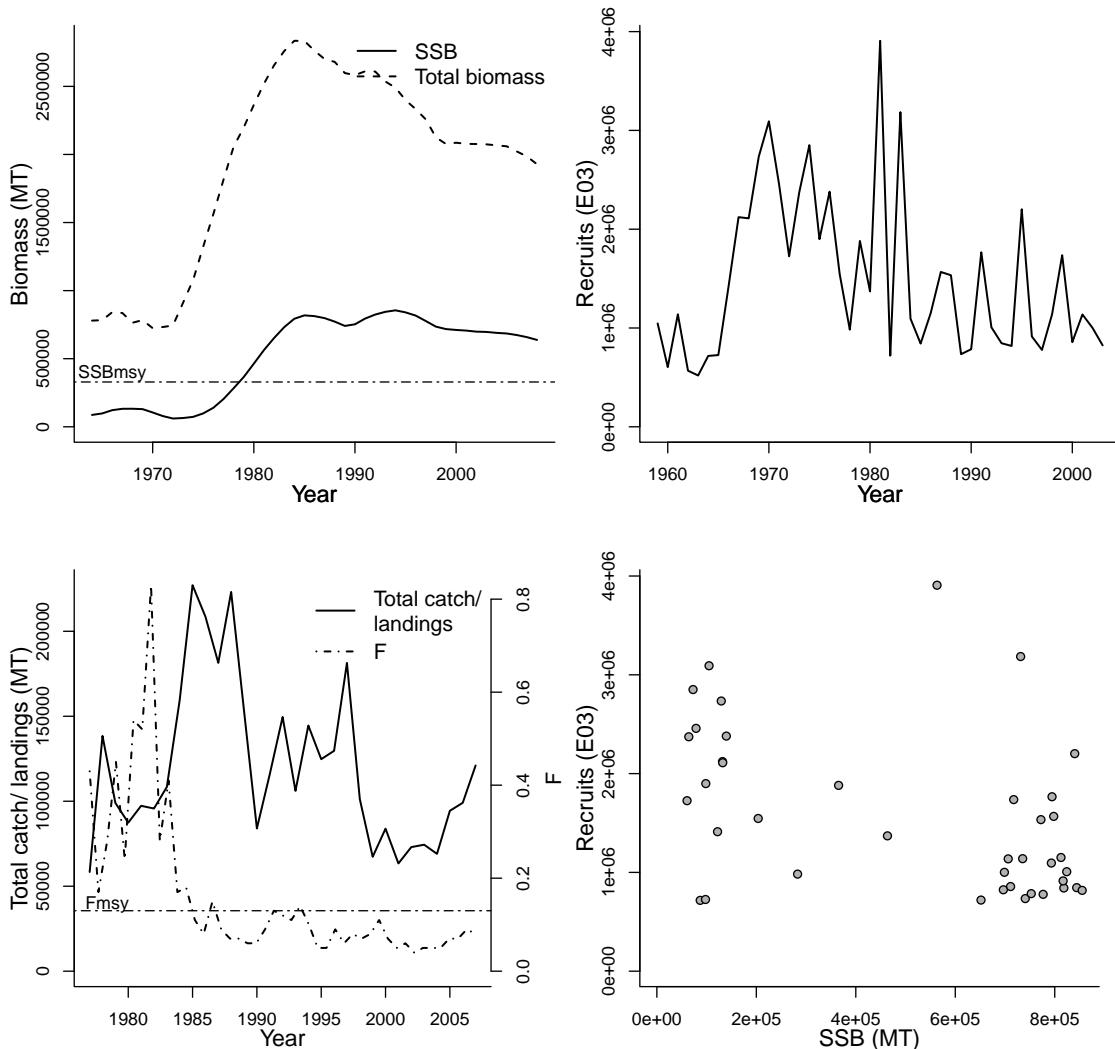
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Wilderbuer T
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1959-2008
Document	AFSC-YSOLEBSAI-2008-Yellowfin sole BSAI.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2009-05-22
QA/QC complete	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
			1 - East Bering Sea	na	na
SSB-AGE-yr	10.5	yr			
REC-AGE-yr	5	yr			
TB-AGE-yr	2+	yr			
A50-yr	10.5	yr			
M-1/yr	0.12	1/yr			
NATMORT-1/yr	0.12	1/yr			
F-AGE-yr					
M					
L50-cm					

Parameter	Value	Units	Reference points
			Parameter
			Value
			Units
Fmsy-1/yr (F)	0.13	1/yr	
NATMORT-1/yr (M)	0.12	1/yr	
SSBmsy-MT (SSB)	329000	MT	
$F_{2008}/F_{m sy}$	0.615		
$SSB_{2008}/SSB_{m sy}$	1.939		

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 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

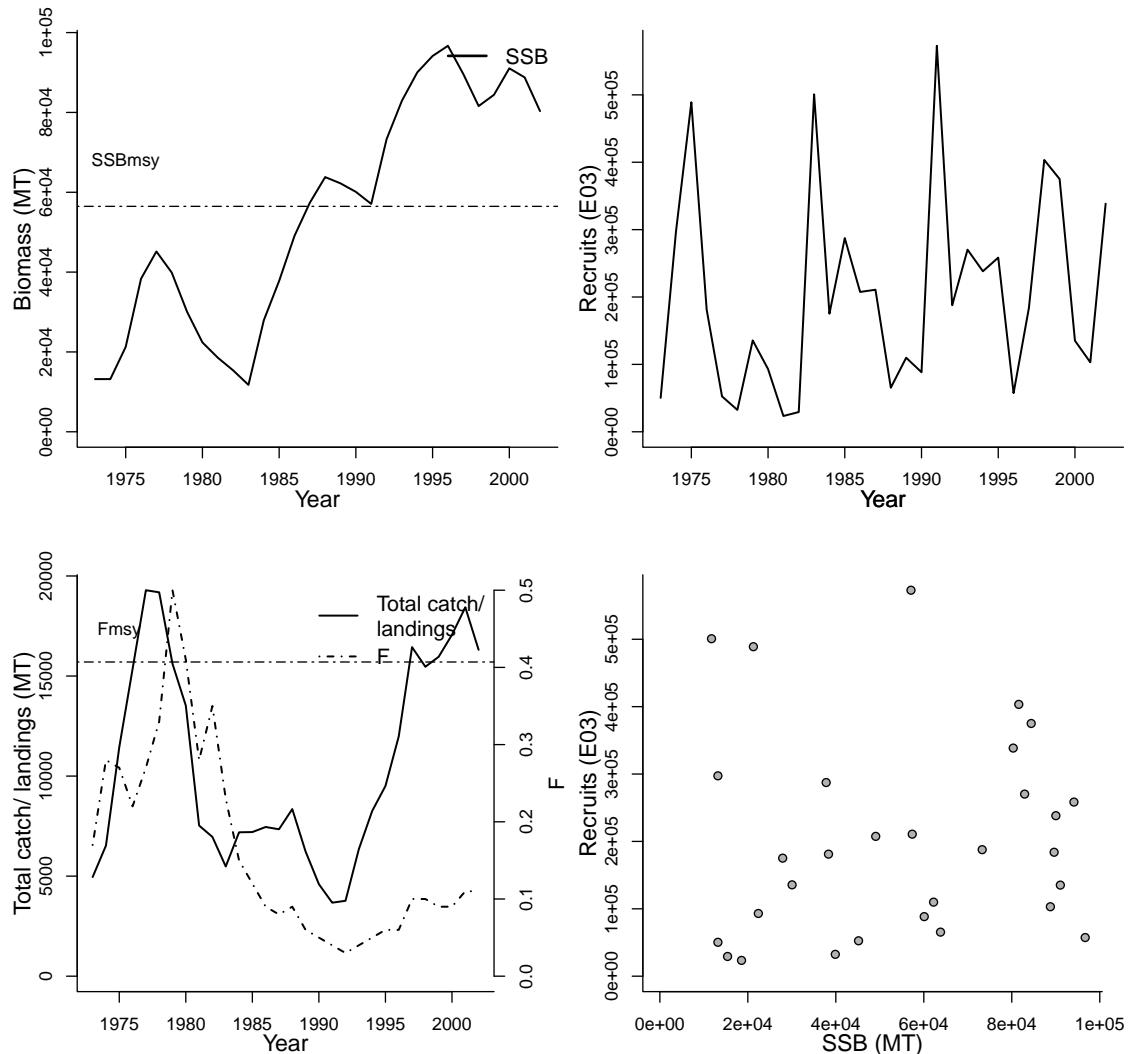
General assessment details.

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
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	56467	MT
F-AGE-yr-yr	1-10	yr-yr	BH-h-dimless	0.76	dimless
SSB-AGE-yr			F_{2002}/F_{msy}	0.270	
M			SSB_{2002}/SSB_{msy}	1.423	
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

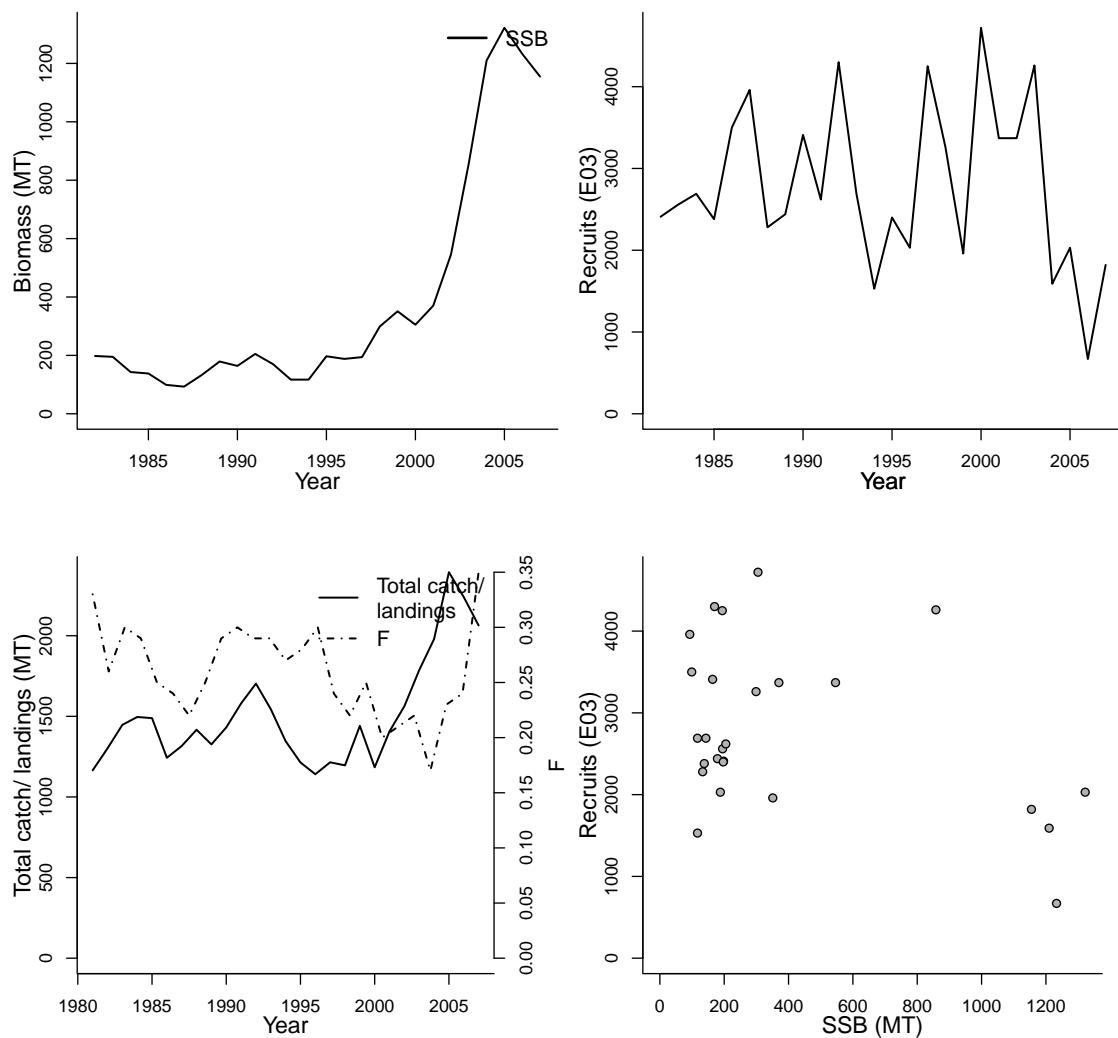
General assessment details.

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	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		
M-1/yr	0.15	1/yr		
NATMORT-1/yr	0.15	1/yr		
REC-AGE			Reference points	
SSB-AGE-yr			Parameter	Value
TB-AGE-yr			NATMORT-1/yr (M)	
F-AGE-yr			0.15	
M			1/yr	
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

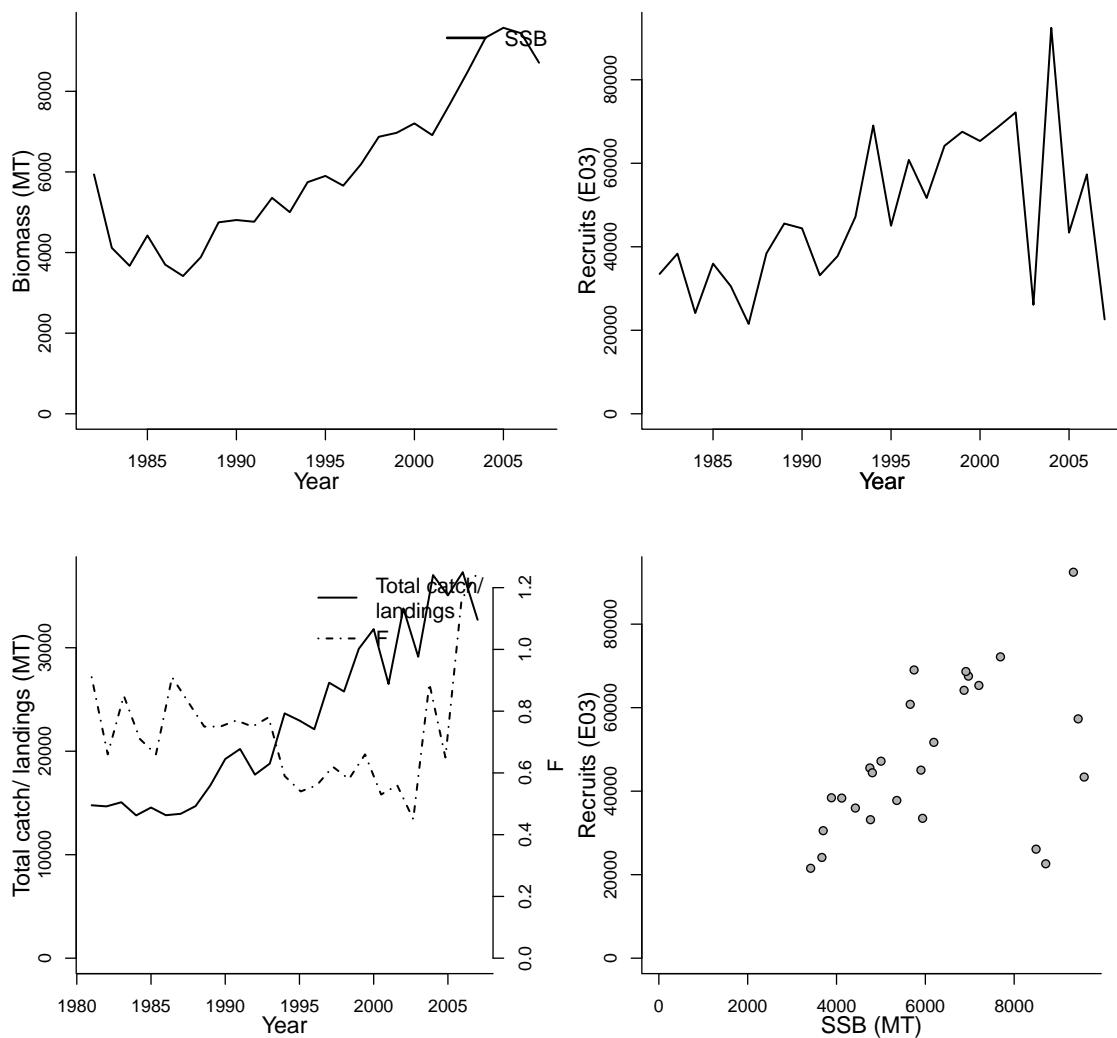
General assessment details.

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		
M-1/yr	0.15	1/yr		
NATMORT-1/yr	0.15	1/yr		
REC-AGE			Reference points	
SSB-AGE-yr			Parameter	Value
TB-AGE-yr			NATMORT-1/yr (M)	
F-AGE-yr			0.15	
M			1/yr	
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

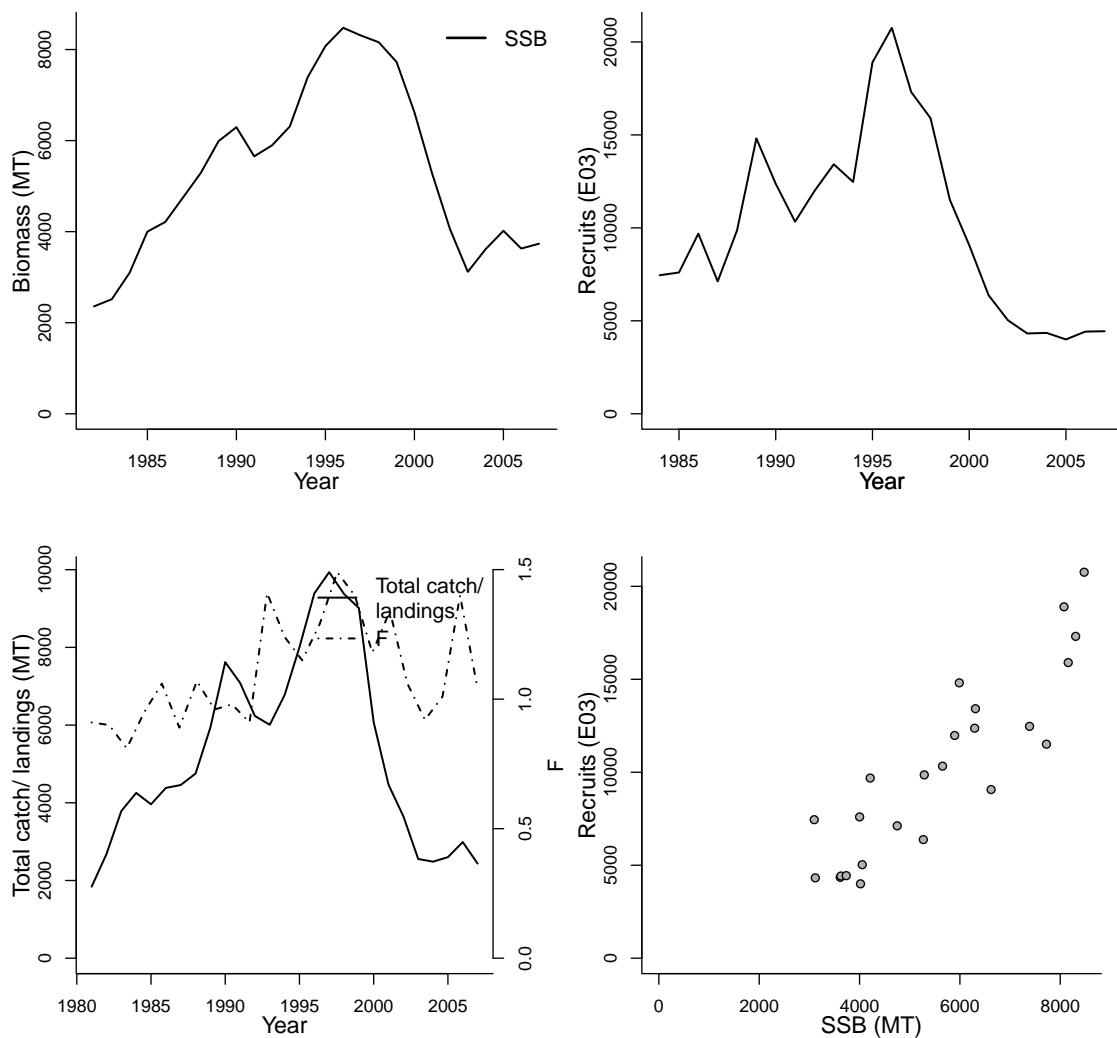
General assessment details.

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		
M-1/yr	0.15	1/yr		
NATMORT-1/yr	0.15	1/yr		
REC-AGE			Reference points	
SSB-AGE-yr			Parameter	Value
TB-AGE-yr			NATMORT-1/yr (M)	
F-AGE-yr			0.15	
M			1/yr	
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

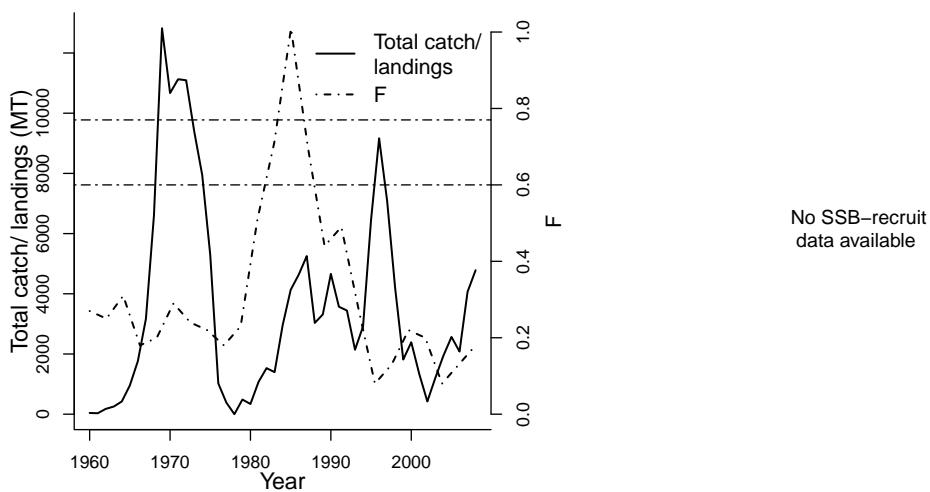
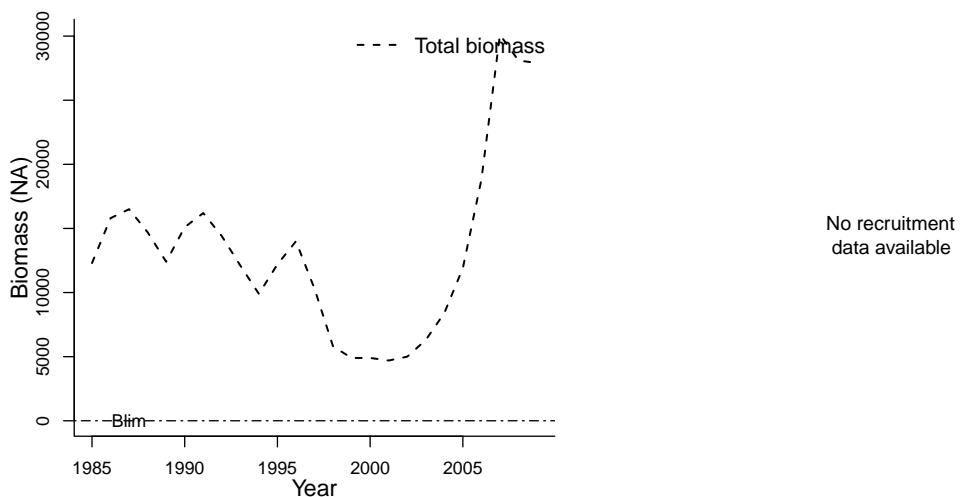
General assessment details.

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 (SSB)	1.54	MT
F-AGE-yr-yr	1.5-6	yr-yr	Bpa-MT (SSB)	9	MT
TB-AGE-yr	1.5+	yr	F0.1-1/yr (F)	0.46	1/yr
M-1/yr	0.25	1/yr	Flim-1/T (F)	0.6	1/T
REC-AGE			Fmsy-1/yr (F)	0.77	1/yr
M			Fpa-1/T (F)	0.28	1/T
A50-yr			MORATOR-yr-yr	1978	yr-yr
L50-cm			F40%-1/T	0.34	1/T
			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 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

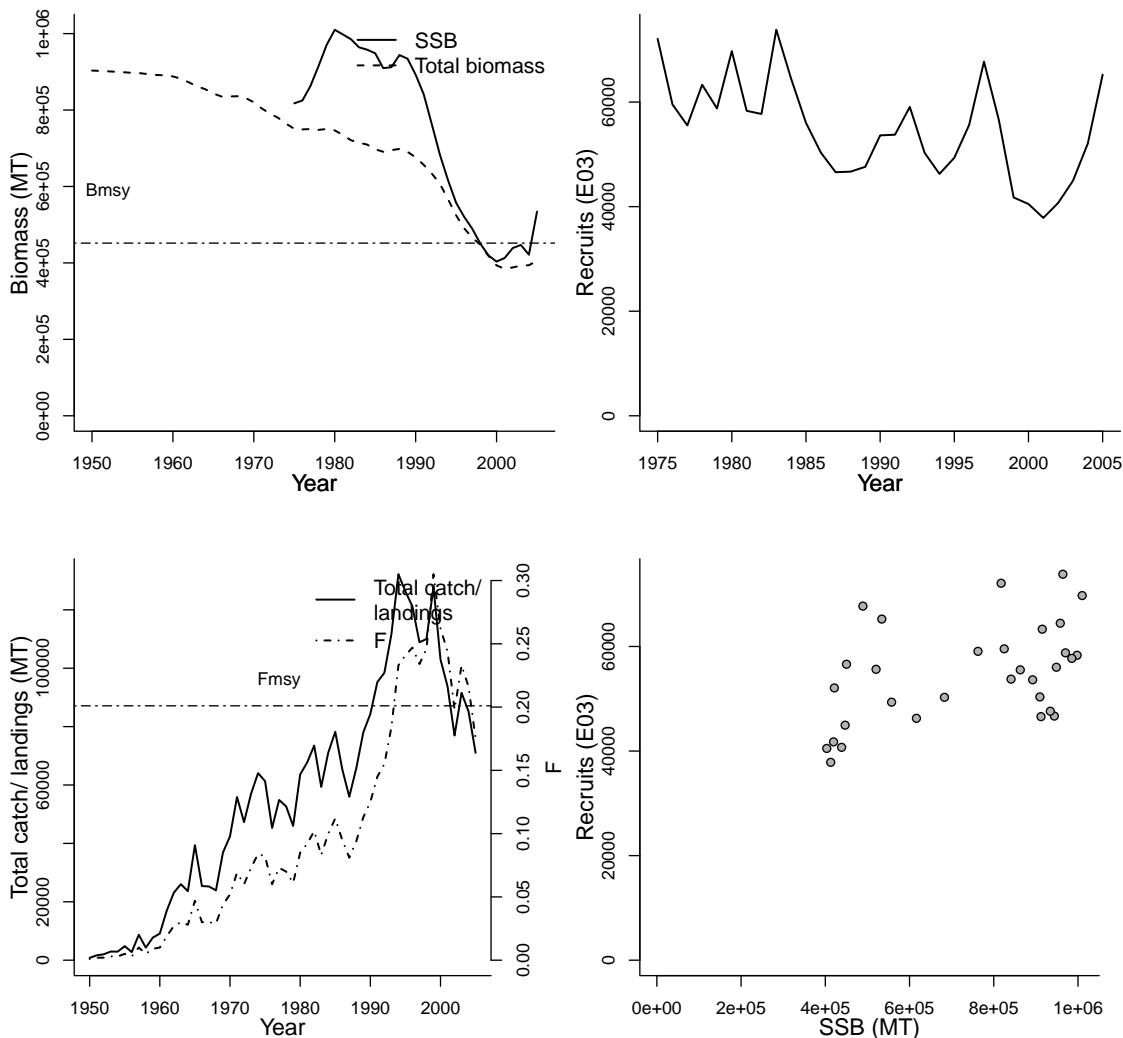
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	
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	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.

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			
M-1/yr	0.4	1/yr	Fmsy-1/T (F)	0.201	1/T			
SSB-AGE-yr			MSY-MT (TB)	90820	MT			
TB-AGE-yr			Bmsy-MT (TB)	451800	MT			
F-AGE-yr			TB_{2005}/B_{msy}	0.898				
M			F_{2005}/F_{msy}	0.871				
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 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

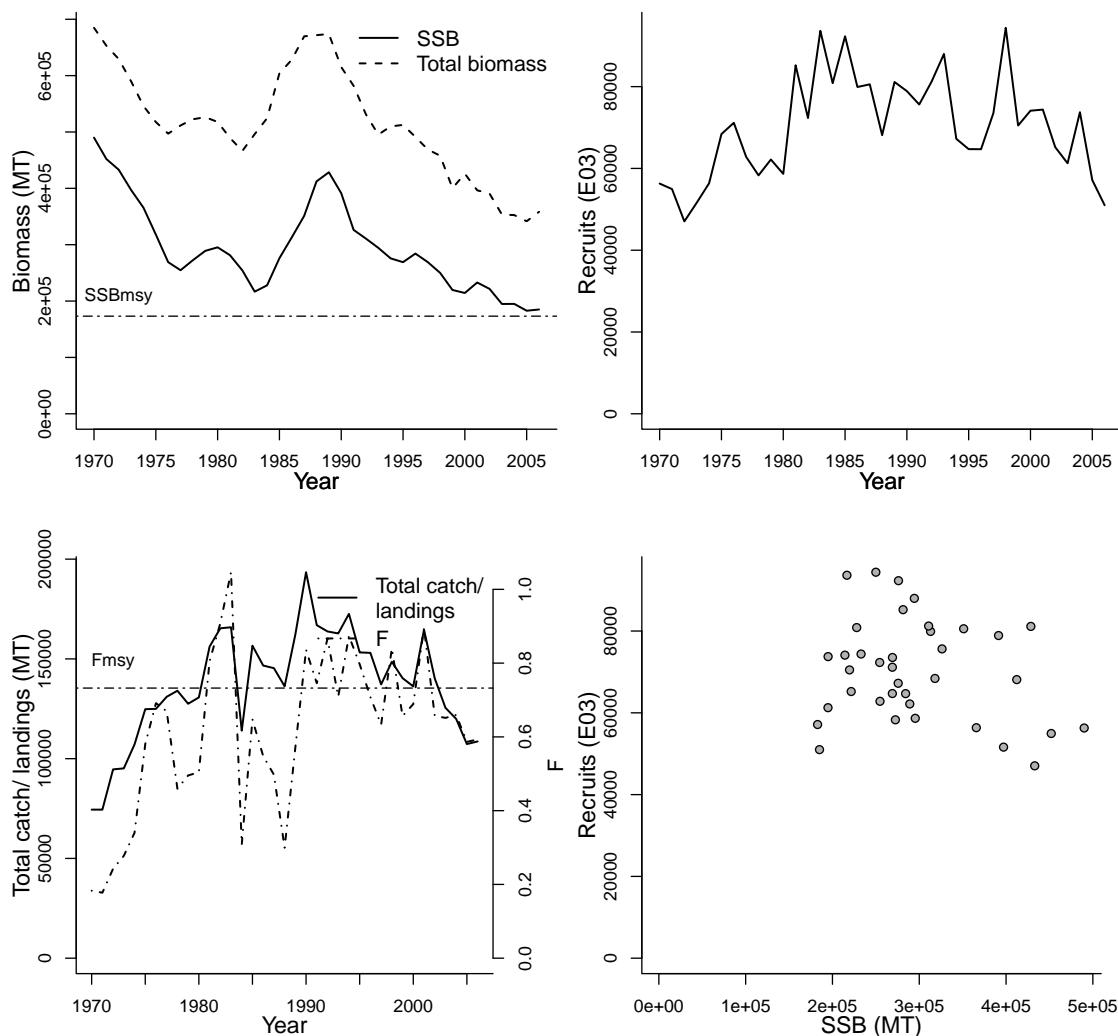
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	
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	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.

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
TB-AGE-yr			SSBm sy-MT (SSB)	173191.00788815	MT
F-AGE-yr			MSY-MT (TB)	129800	MT
M			F_{2006}/F_{msy}	0.810	
A50-yr			SSB_{2006}/SSB_{msy}	1.069	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1970	1970	1970	1970
Maximum year	2006	2006	2006	2006	2006
Time series minimum	182867.5	47043.438	0.1775	341600	74447.748
Time series maximum	489994	94386.279	1.0465	684850	193448.27
Units	MT	E03	1/T	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.

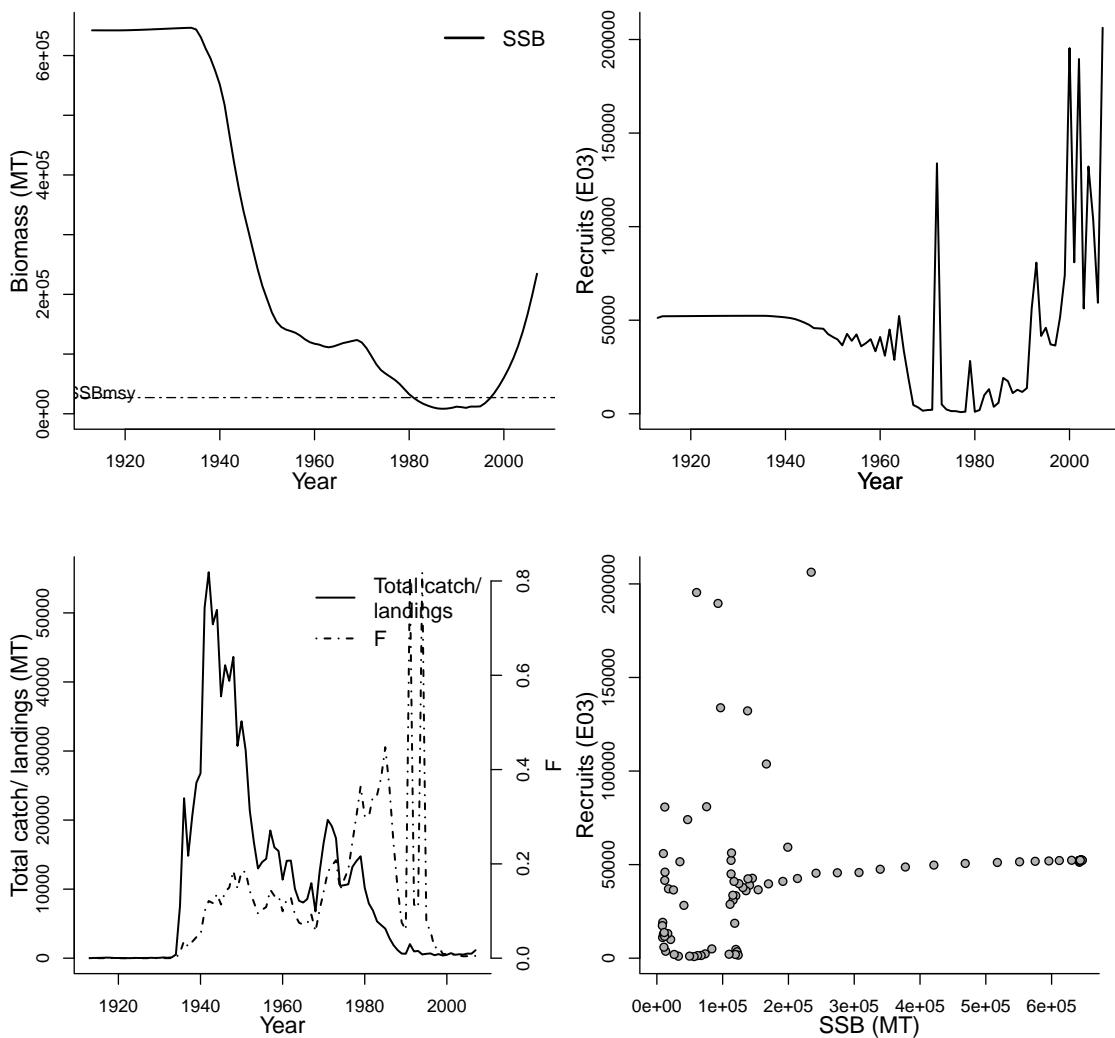
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Age Structured Assessment Program
Publication year	2008
Timeseries span	1913-2007
Document	AcadianRedfish2008.pdf (pdf in database)
Recorder	MILLER
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	Parameter	Reference points
F-AGE-yr-yr	10+	yr-yr		
A50-yr	5	yr	Parameter	Value
M-1/yr	0.05	1/yr	F40%-1/T	0.0377
REC-AGE			SSB _m sy-MT (SSB)	1/T
SSB-AGE-yr			MSY-MT (TB)	27100
TB-AGE-yr			<i>SSB</i> ₂₀₀₇ / <i>SSB</i> _{<i>m</i>sy}	MT
M				10139
L50-cm				MT
				8.657

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>

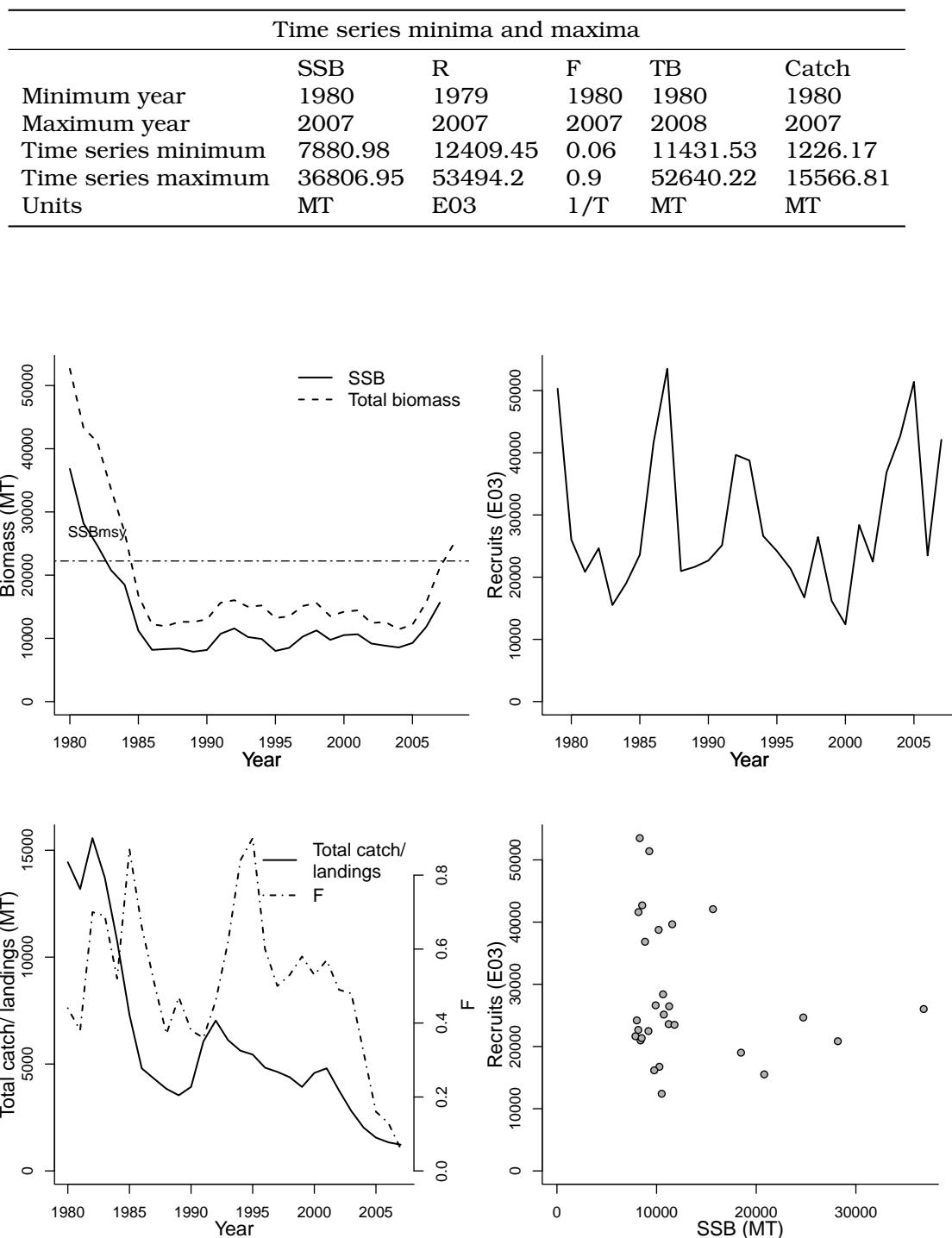
Area ID: USA-NMFS-5YZ

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	Reference points	
TB-AGE-yr	1+	yr	Parameter	Value
A50-yr	AVAILABLE	yr		Units
M-1/T	0.2	1/T	F40%-1/T	0.19
SSB-AGE-yr	1+	yr	SSB _{msy} -MT (SSB)	1/T
REC-AGE-yr	1	yr	MSY-MT (TB)	22243
F-AGE-yr-yr	6-9	yr-yr	SSB ₂₀₀₇ /SSB _{msy}	MT
M				4059
L50-cm				MT
				0.704



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

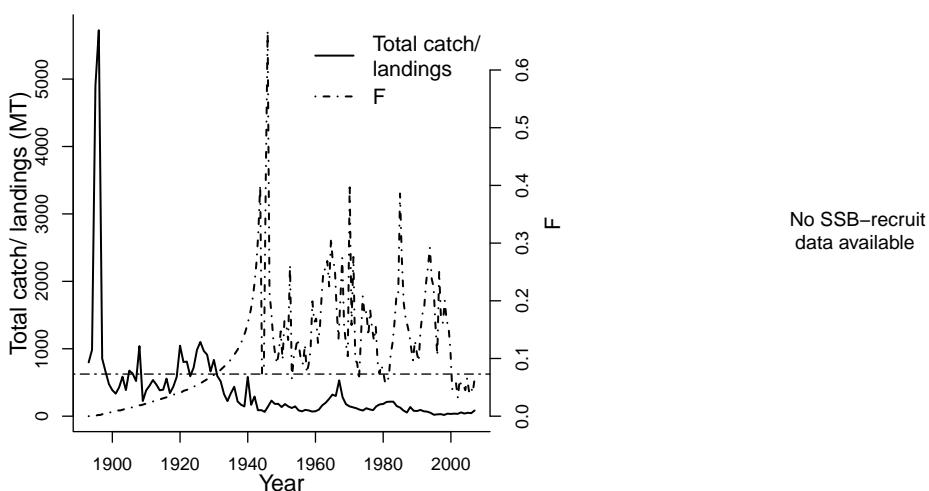
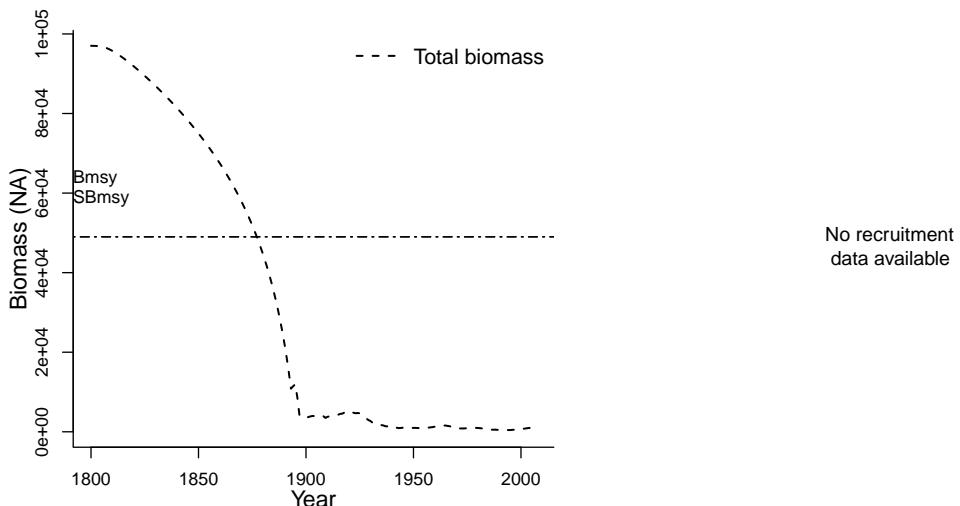
General assessment details.

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
			Reference points	
Parameter	Value	Units	Parameter	Value
A50-yr	7	yr	Bmsy-MT (TB)	49000
L50-cm	103	cm	Bpa-MT (SSB)	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
TB-AGE-yr			SPRF0-E01 (SPR)	109
F-AGE-yr			F40%-1/T	0.064
M			SSBmsy-MT (SSB)	49000
			MSY-MT (TB)	3500
			Frebuild-1/T (F)	0.044
			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

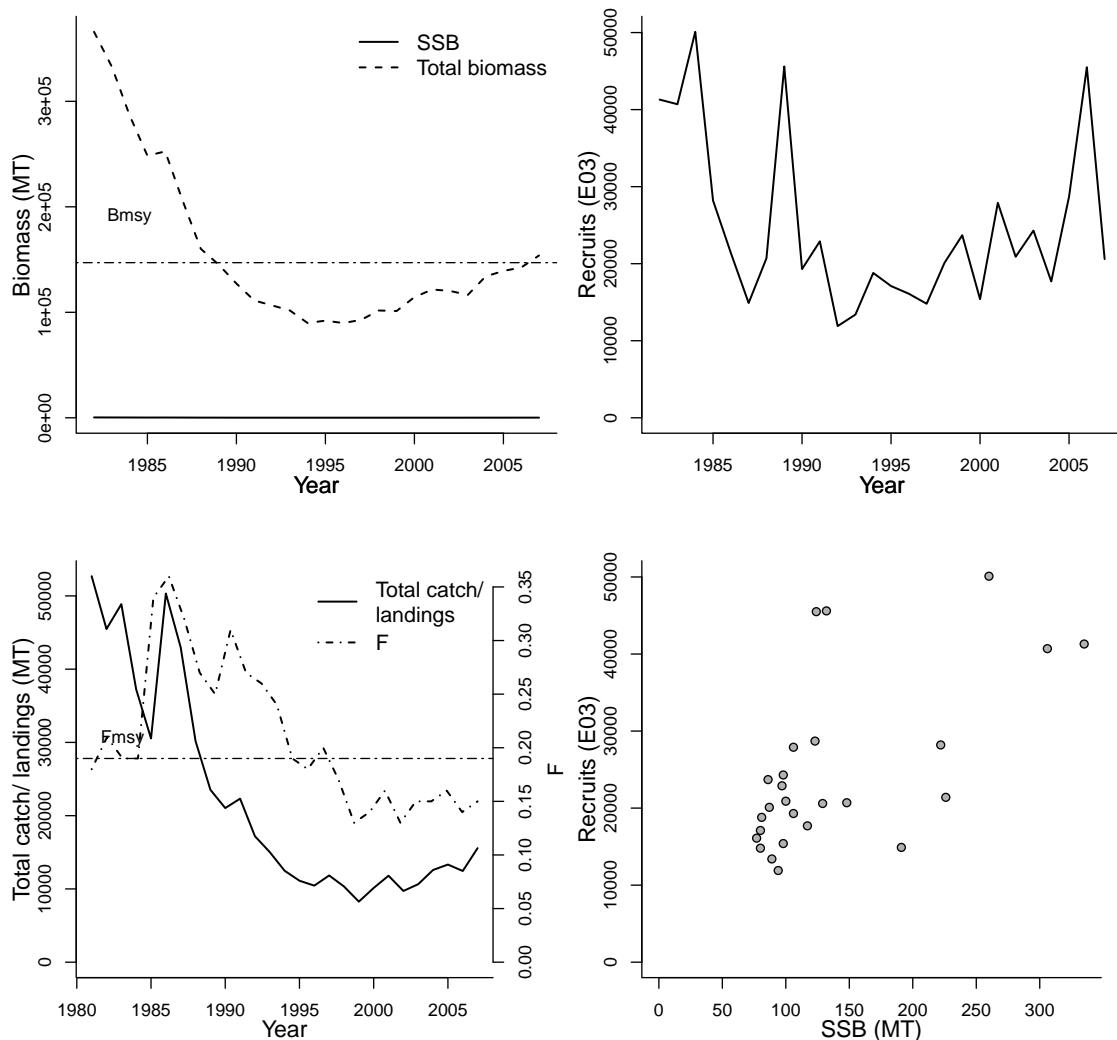
General assessment details.

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	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		
SSB-AGE-yr	2+	yr	Parameter	Value	Units
REC-AGE-yr	0	yr	Bmsy-MT (TB)	147052	MT
F-AGE-yr-yr	01-Jan	yr-yr	Fmsy-1/T (F)	0.19	1/T
TB-AGE-yr	0+	yr	MSY-MT (TB)	15565	MT
A50-yr	2	yr	TB_{2007}/B_{msy}	1.046	
M-1/T	0.2	1/T	F_{2007}/F_{msy}	0.789	
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1982	1982	1982	1982	1981
Maximum year	2007	2007	2007	2007	2007
Time series minimum	77	11900	0.13	89812	8264
Time series maximum	335	50100	0.36	365924	52688
Units	MT	E03	1/T	MT	MT



Assessment of Mid-Atlantic Coast black sea bass (*Centropristes striata*)

Assessment ID:NEFSC-BSBASSMATLC-1968-2007-SHEPHERD
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/292>

Area ID: USA-NMFS-MATLC

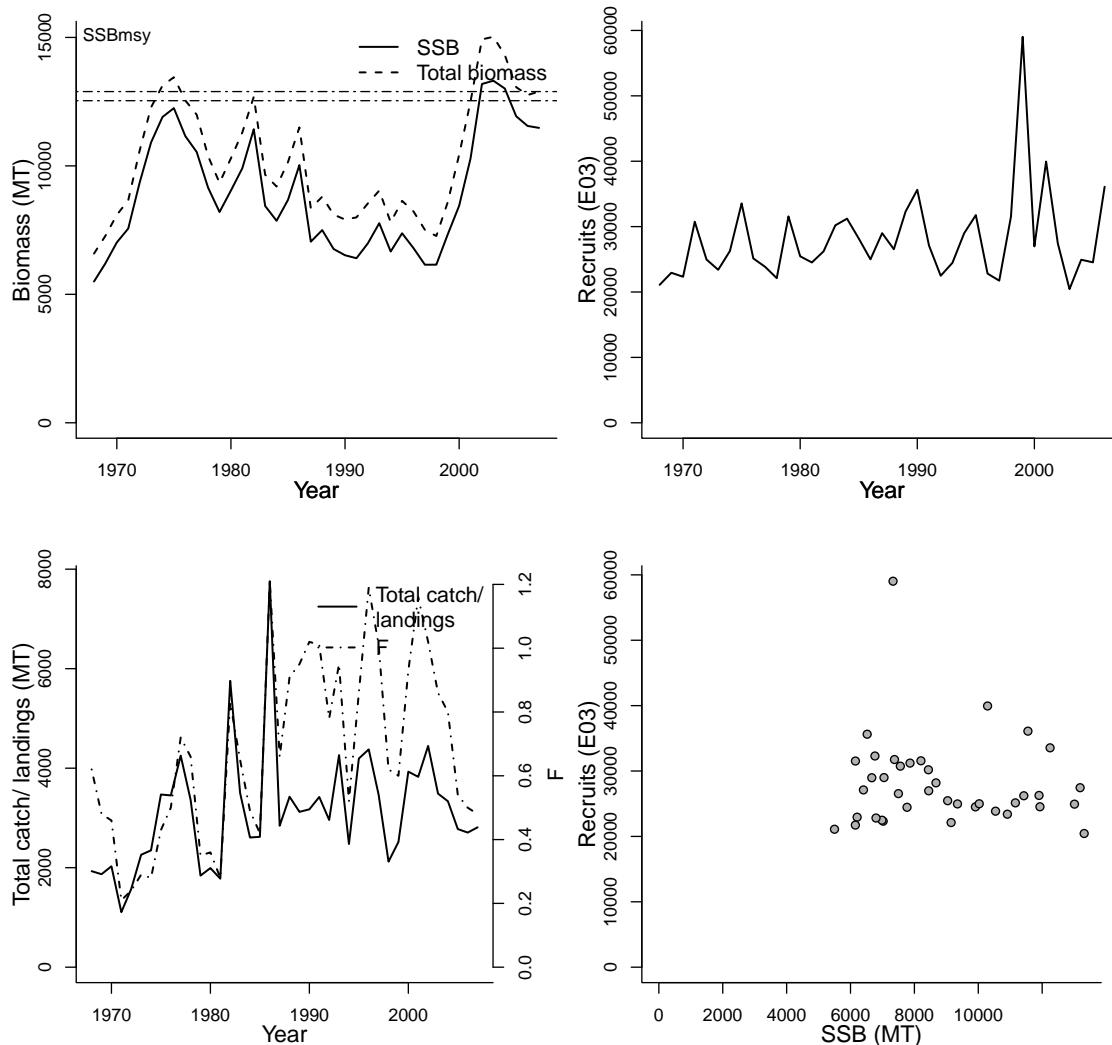
General assessment details.

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	2010-02-11
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	Parameter	Reference points
REC-AGE-yr	1	yr	Bmsy-MT (TB)	12892.30
F-AGE-yr-yr	0	yr-yr	F0.1-1/yr (F)	0.368
L50-cm	21 cm	cm	F40%-1/T	0.419
M-1/T	0.4	1/T	SSBmsy-MT (SSB)	12537
SSB-AGE-yr			MSY-MT (TB)	3903
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		
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 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

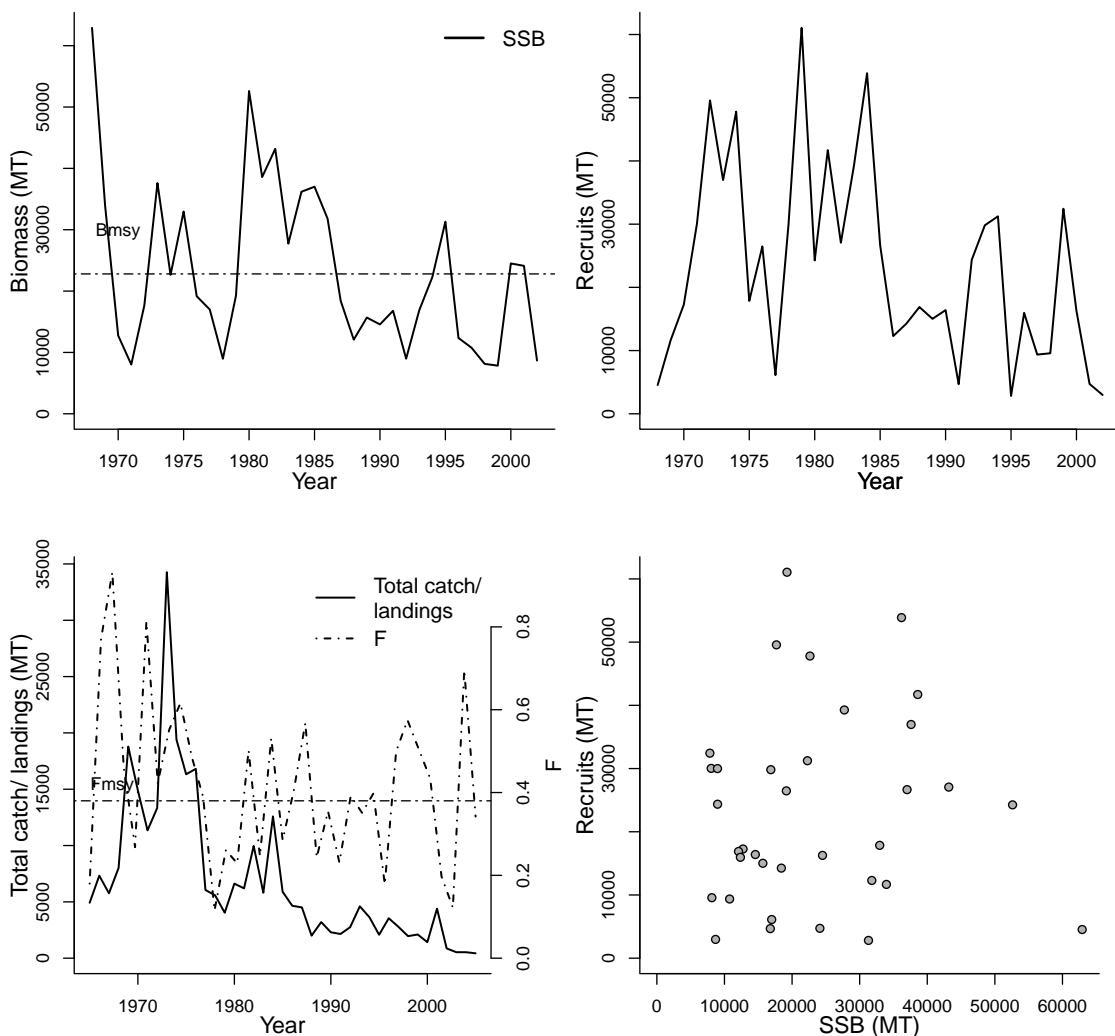
General assessment details.

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
Parameter	Value	Units	Reference points	
SSB-AGE-yr	1+	yr	Parameter	Value
REC-AGE-yr	0	yr	Bmsy-MT (TB)	22798
L50-cm	11.7	cm	F0.1-1/yr (F)	1.6
M-1/yr	0.8	1/yr	Fmsy-1/T (F)	0.38
TB-AGE-yr			MSY-MT (TB)	12.175
F-AGE-yr			F_{2002}/F_{msy}	MT
M				0.900
A50-yr				

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.

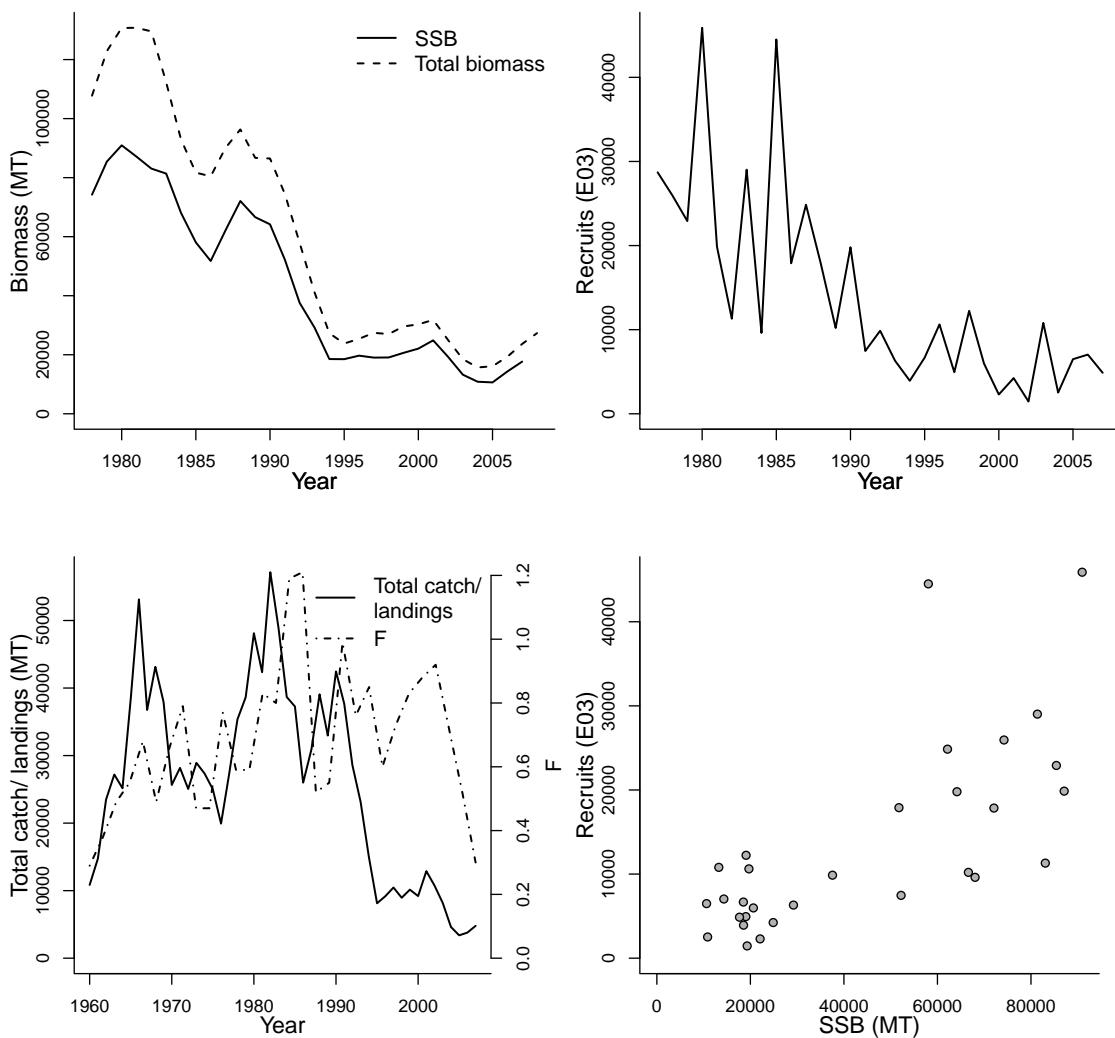
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit 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
REC-AGE-yr	1	yr	F40%-1/T	0.25	1/T
F-AGE-yr-yr	5-8	yr-yr	SSB _{msy} -MT (SSB)	148084	MT
TB-AGE-yr	1+	yr	MSY-MT (TB)	31159	MT
A50-yr	AVAILABLE	yr	<i>SSB</i> ₂₀₀₇ / <i>SSB</i> _{msy}	0.119	
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

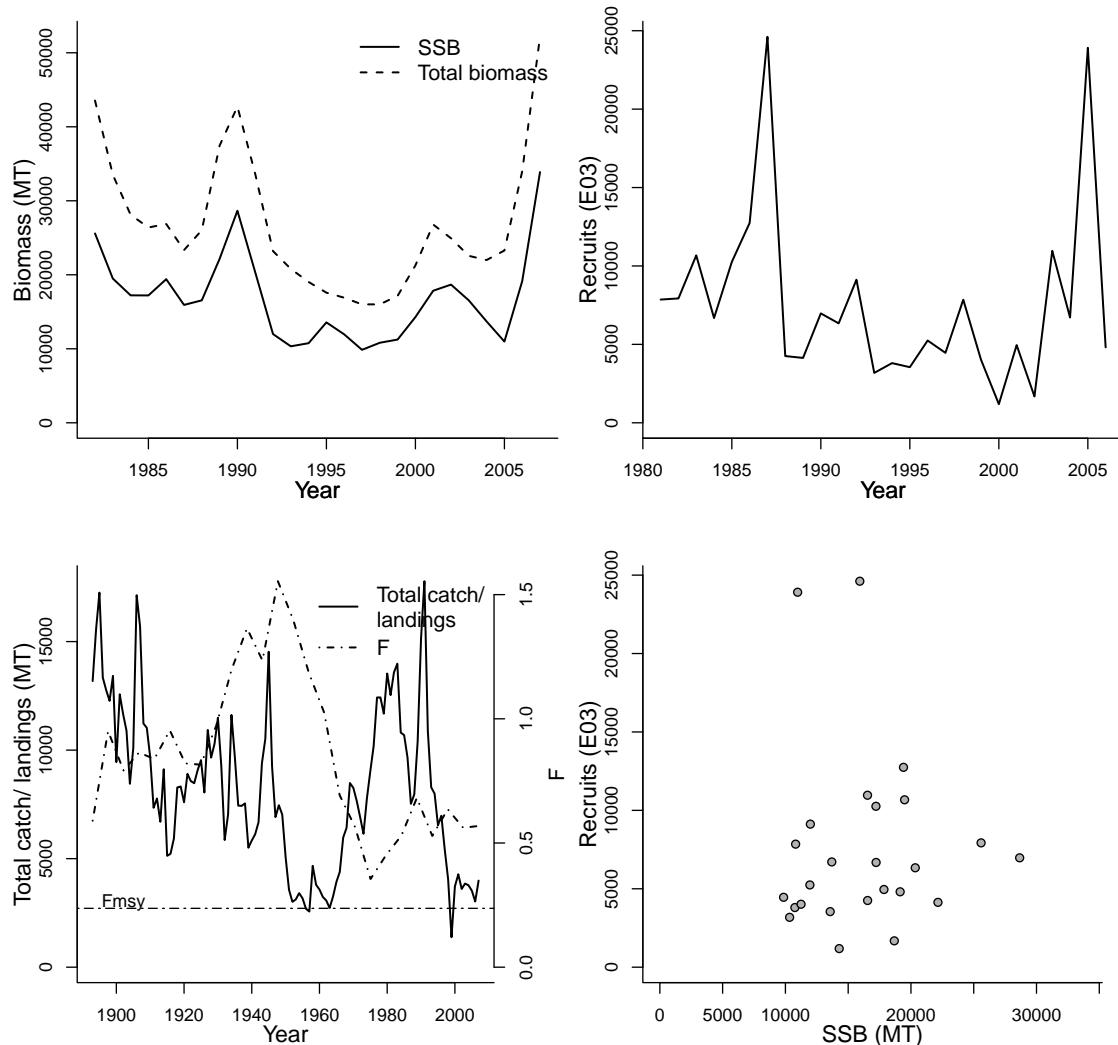
General assessment details.

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		
REC-AGE-yr	1	yr	Parameter	Value	Units
F-AGE-yr-yr	5-7	yr-yr	Bmsy-MT (TB)	82830	MT
A50-yr	AVAILABLE	yr	Fmsy-1/T (F)	0.237	1/T
M-1/T	0.2	1/T	MSY-MT (TB)	16600	MT
SSB-AGE-yr			Frebuild-1/T (F)	0.281	1/T
TB-AGE-yr			TB_{2007}/B_{msy}	0.630	
M			F_{2007}/F_{msy}	2.399	
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		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

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 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

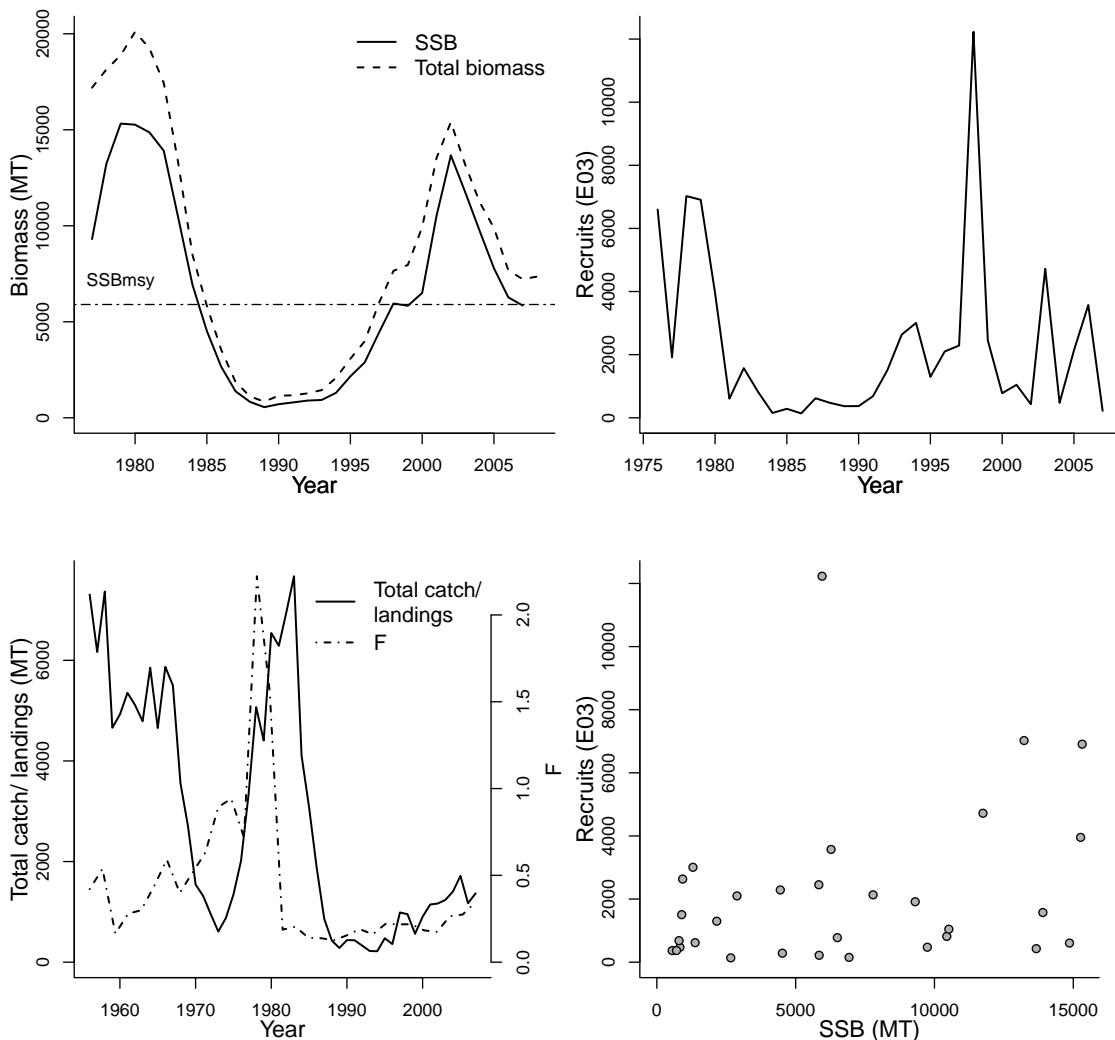
General assessment details.

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	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
F-AGE-yr-yr	6-8	yr-yr	F40%-1/T	0.43	1/T
A50-yr	AVAILABLE	yr	SSB _{msy} -MT (SSB)	5900	MT
L50-cm	AVAILABLE	cm	MSY-MT (TB)	1360	MT
M-1/T	0.2	1/T	<i>SSB</i> ₂₀₀₇ / <i>SSB</i> _{msy}	0.991	
SSB-AGE-yr					
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.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/82>

Area ID: USA-NMFS-5Z

General assessment details.

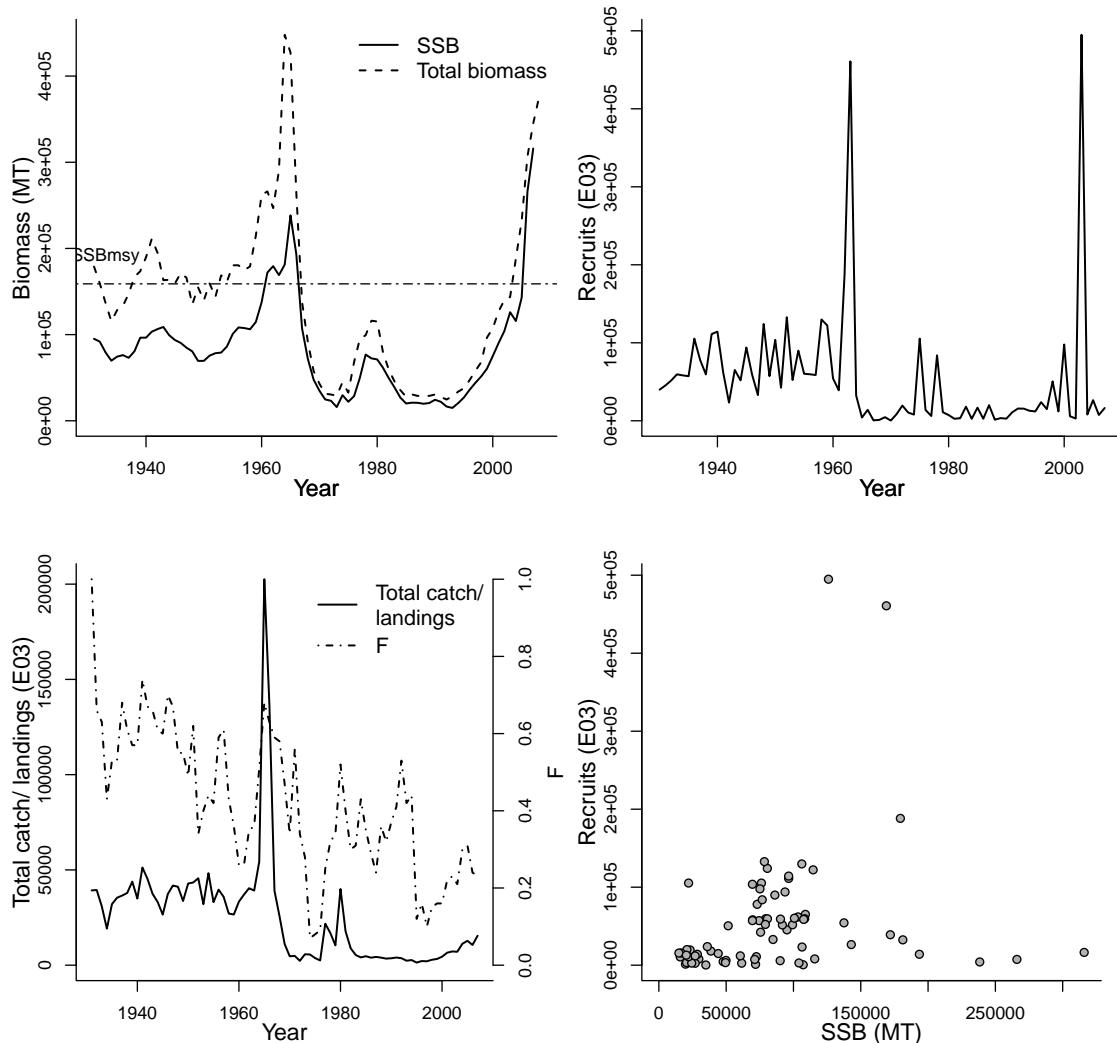
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	VPA/ADPAT version 2.3.2 NOAA Fisheries
Publication year	2008
Timeseries span	1930-2008
Document	NMFS-5Z-Melanogrammusaeglefinus-2008.pdf (pdf not in database)
Recorder	BAUM
Date entered	2008-10-30
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME	
7 - Northeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
F-AGE-yr-yr	5-7	yr-yr	F40%-1/T	0.35	1/T
A50-yr	AVAILABLE	yr	SSB _{m_{sy}} -MT (SSB)	158873	MT
L50-cm	AVAILABLE	cm	MSY-MT (TB)	32746	MT
M-1/T	0.2	1/T	SSB ₂₀₀₇ /SSB _{m_{sy}}	1.989	
SSB-AGE-yr					
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

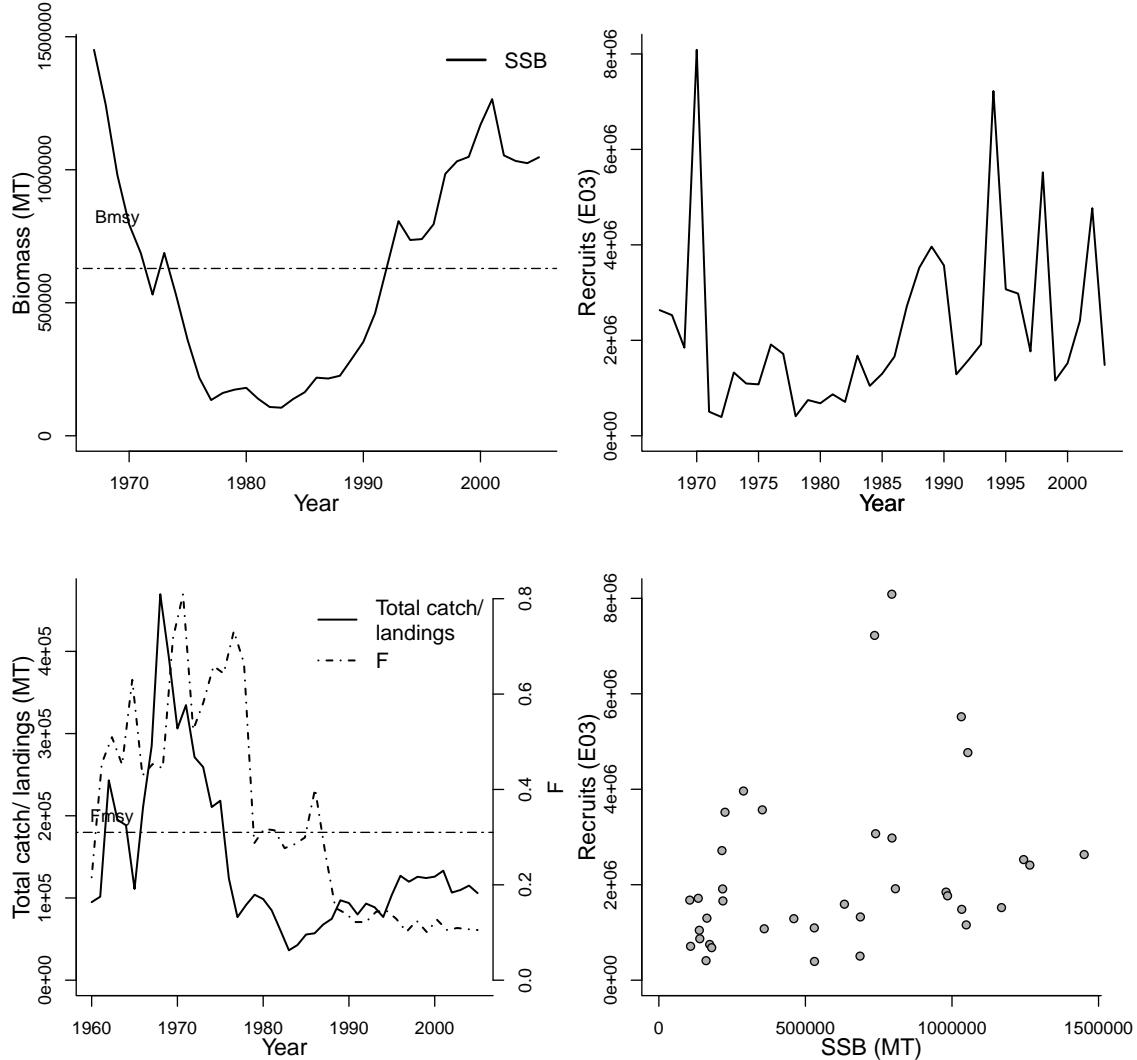
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Transboundary Resource Assessment Committee
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	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		
SSB-AGE-yr	3+	yr	Parameter	Value	Units
REC-AGE-yr	2	yr	Bmsy-MT (TB)	629000	MT
A50-yr	2.95	yr	F0.1-1/yr (F)	0.21	1/yr
L50-cm	25.35	cm	Fmsy-1/yr (F)	0.31	1/yr
M-1/T	0.2	1/T	F40%-1/T	0.2	1/T
TB-AGE-yr			MSY-MT (TB)	194000	MT
F-AGE-yr			F_{2005}/F_{msy}	0.339	
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.

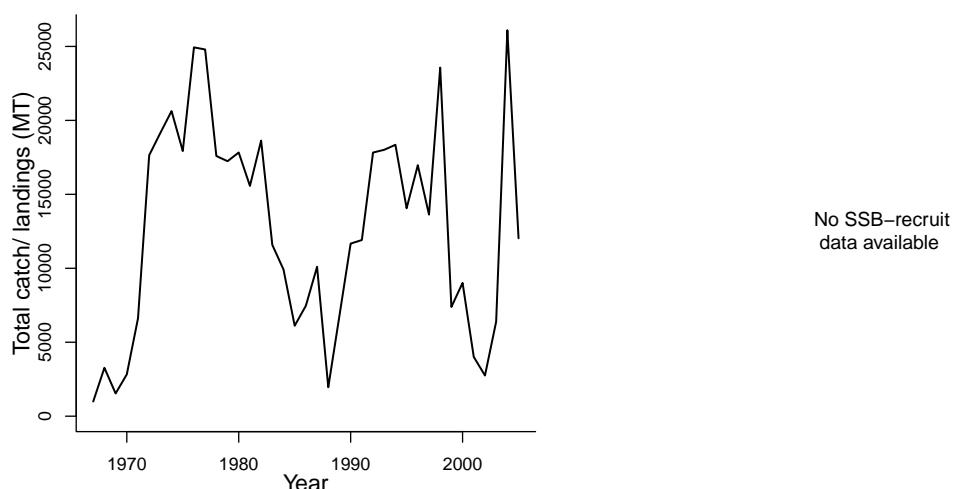
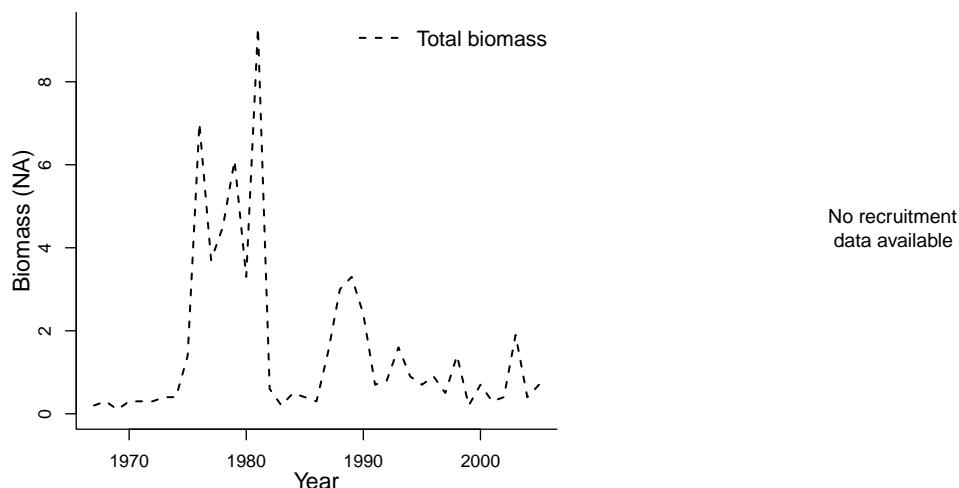
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Hendrickson and Showell
Assessment method	Age-aggregated surplus production model
Publication year	2006
Timeseries span	1967-2005
Document	scr06-46.pdf (pdf in database)
Recorder	HENDRICKSON
Date 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		
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				1967	1967
Maximum year				2005	2005
Time series minimum				0.1	995
Time series maximum				9.3	26097
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.marinebiodiversity.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		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

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 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

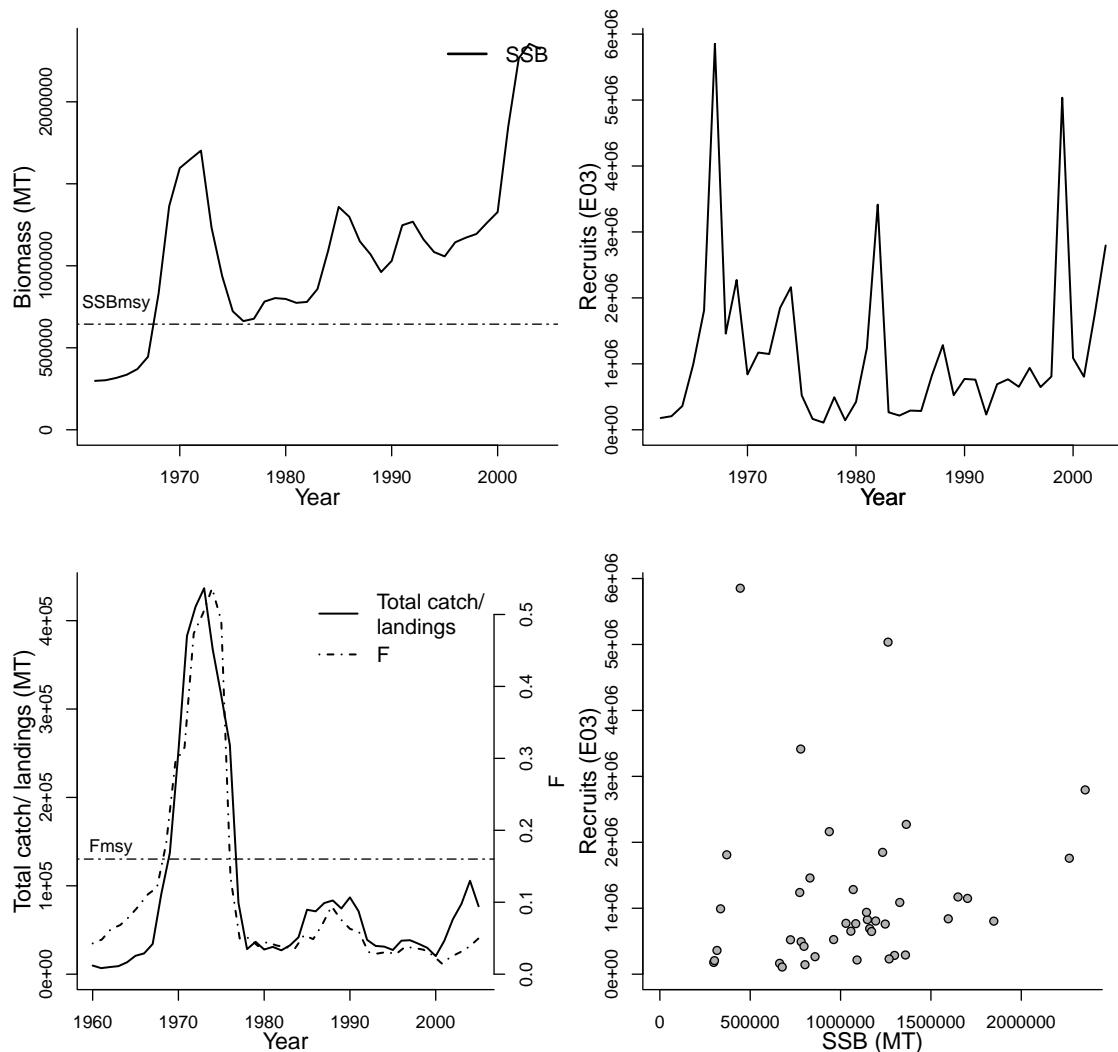
General assessment details.

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	Parameter	Reference points
SSB-AGE-yr	2+	yr	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

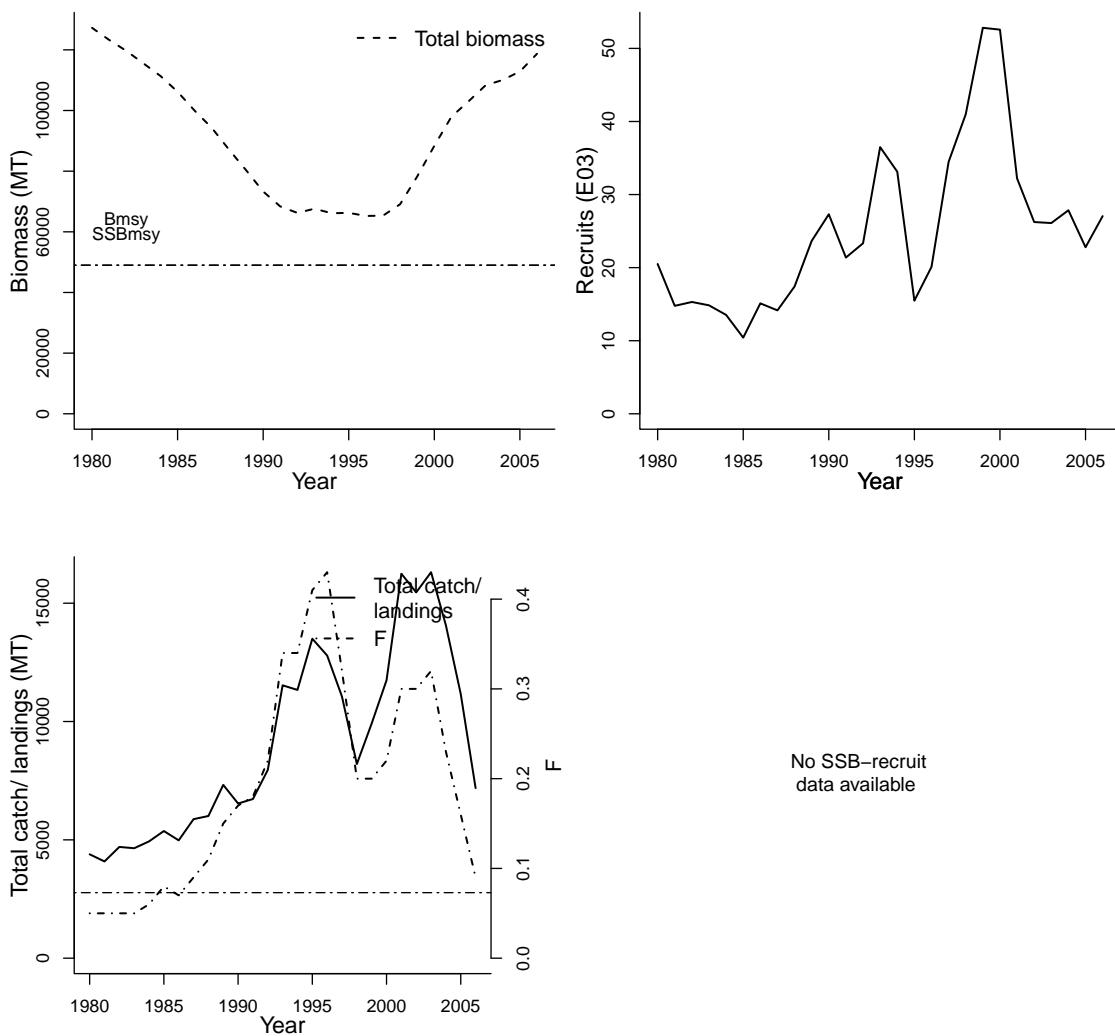
General assessment details.

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	2009-10-26
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		
			Parameter	Value	Units
A50-yr	7	yr	Bmsy-MT (TB)	49000	MT
L50-cm	103	cm	Bpa-MT (SSB)	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
TB-AGE-yr			SPRF0-E01 (SPR)	109	E01
F-AGE-yr			F40%-1/T	0.064	1/T
M			SSBmsy-MT (SSB)	49000	MT
			MSY-MT (TB)	3500	MT
			Frebuild-1/T (F)	0.044	1/T
			TB_{2006}/B_{msy}	2.422	
			F_{2006}/F_{msy}	1.233	

Time series minima and maxima					
	SSB	R	F	TB	
Units	MT	E03	1/T	MT	
Minimum year		1980	1980	1980	1980
Maximum year		2006	2006	2006	2006
Time series minimum	10.42	0.05	65230	4087	
Time series maximum	52.82	0.43	127270	16309	



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

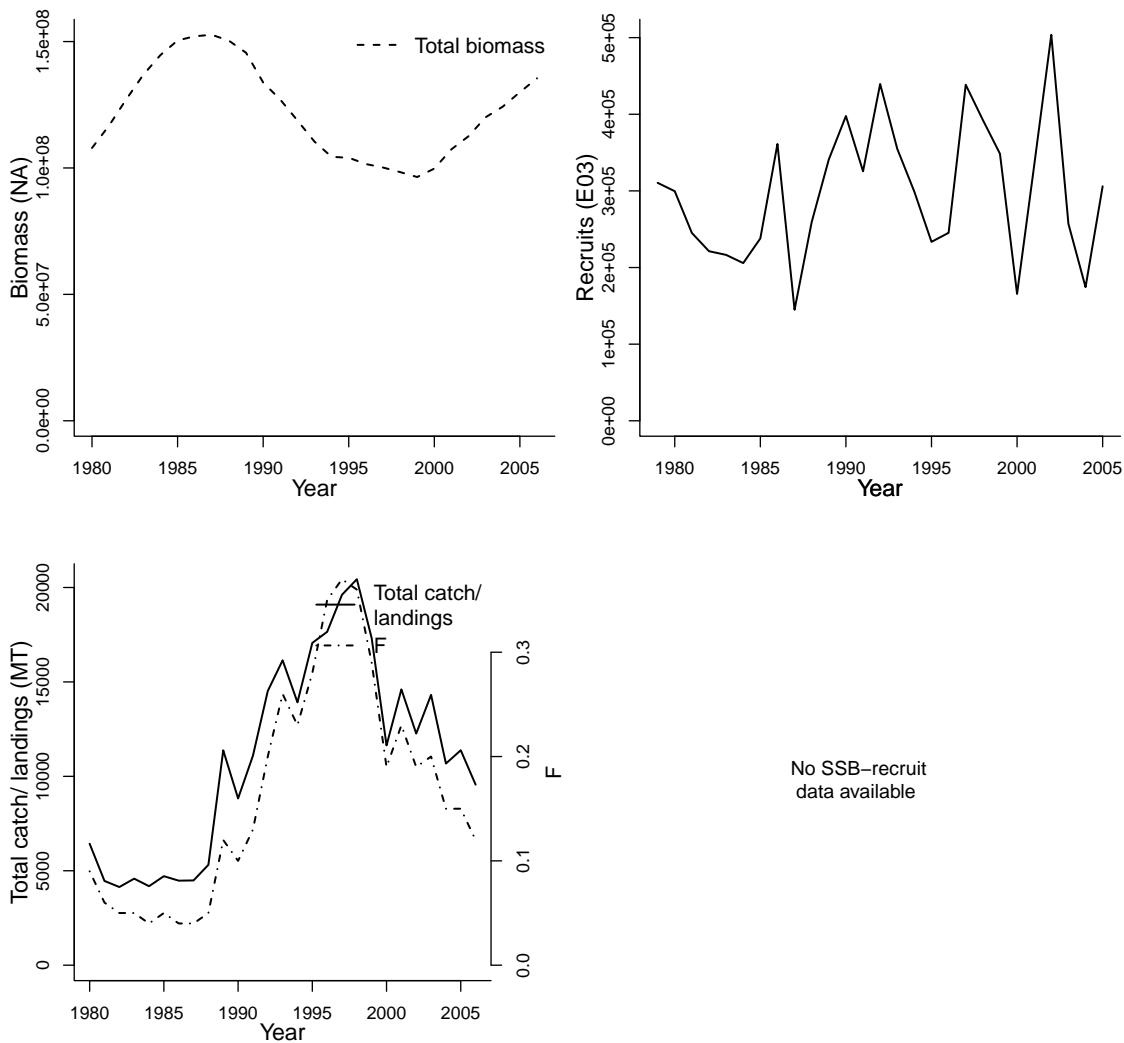
General assessment details.

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	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		
SSB-AGE-yr	4+	yr	Reference points	
REC-AGE-yr	1	yr	Parameter	Value
F-AGE-yr-yr	3+	yr-yr		Units
L50-cm	43.8	cm	Bpa-MT (SSB)	122500
M-1/yr	0.3	1/yr	F0.1-1/yr (F)	0.25
TB-AGE-yr			Fmax-1/yr (F)	0.4
M			F40%-1/T	0.31
A50-yr				

Time series minima and maxima				
	SSB	R	TB	Catch
Minimum year		1979	1980	1980
Maximum year		2005	2006	2006
Time series minimum	144900	0.04	96415300	4139.13
Time series maximum	503700	0.37	152672000	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.marinебiodiversity.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.

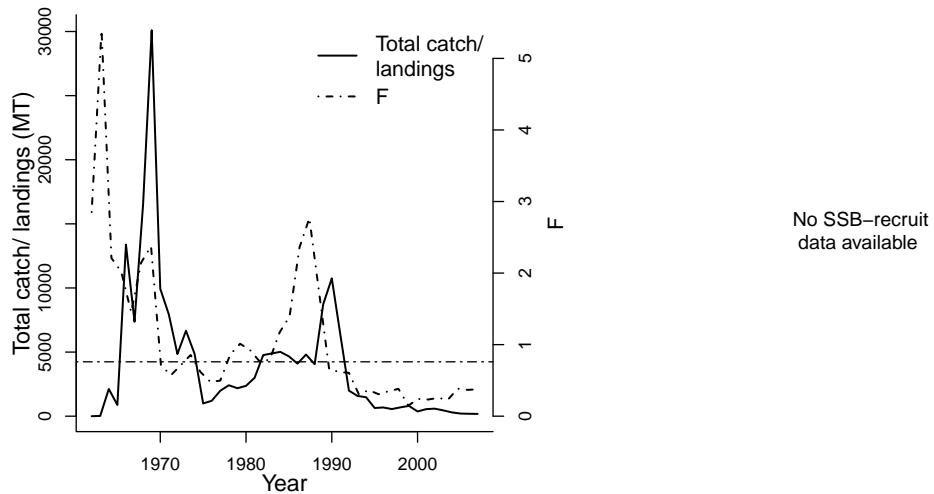
primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
M-1/T	0.2	1/T
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Parameter	Value	Units	Reference points
Bmsy-MT (TB)	4.94	MT	Parameter
Fmsy-1/T (F)	0.76	1/T	Value
MSY-MT (TB)	3754	MT	Units
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

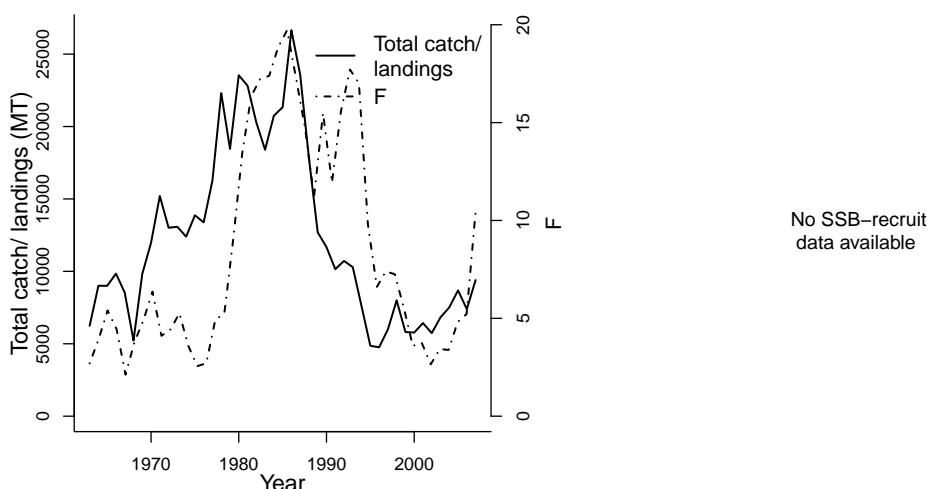
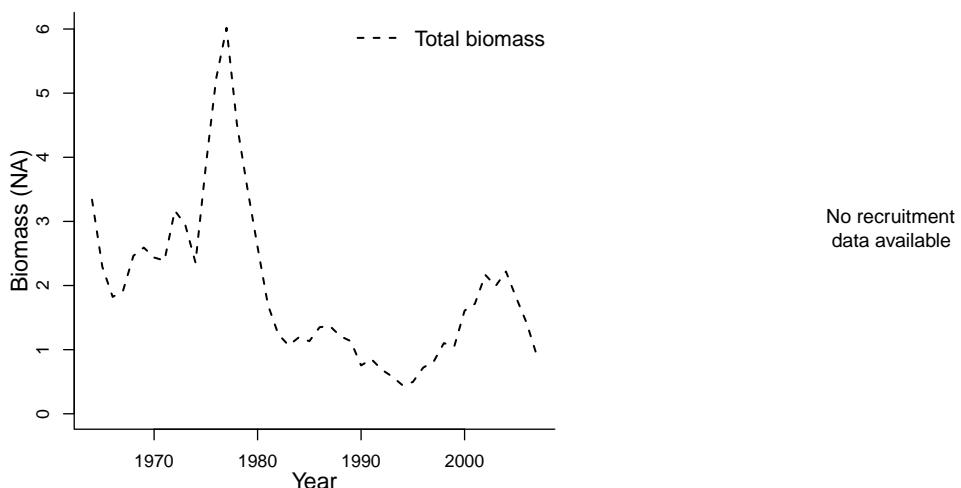
General assessment details.

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						
TB-AGE-yr			TB_{2007}/B_{msy}	0.449							
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.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/437>

Area ID: USA-NMFS-ATLC

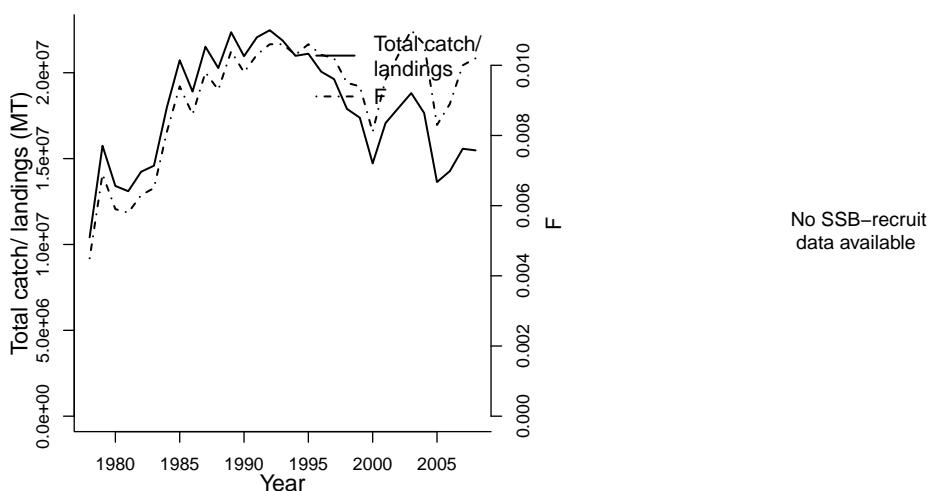
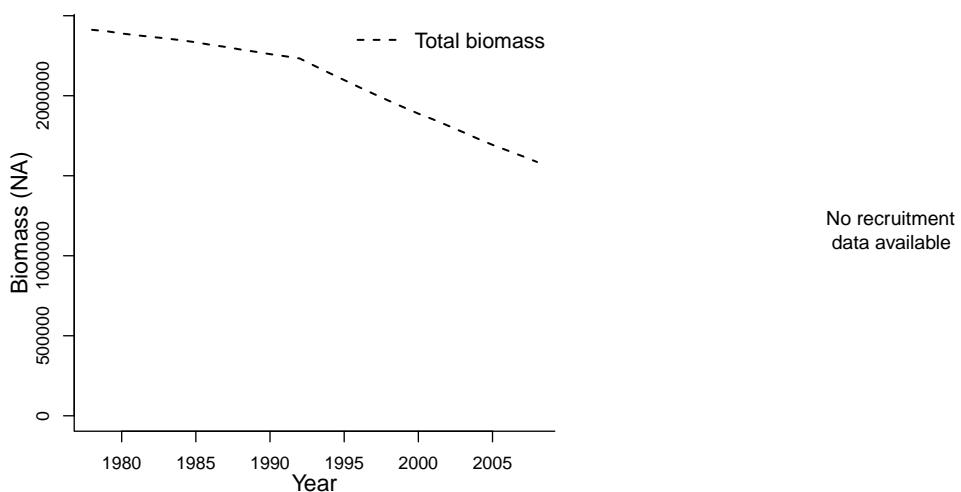
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
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	2010-01-04
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
<hr/>		
Parameter	Value	Units
SSB-AGE-yr	variable	yr
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		
<hr/>		
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		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Parameter	Value	Units	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		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

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 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

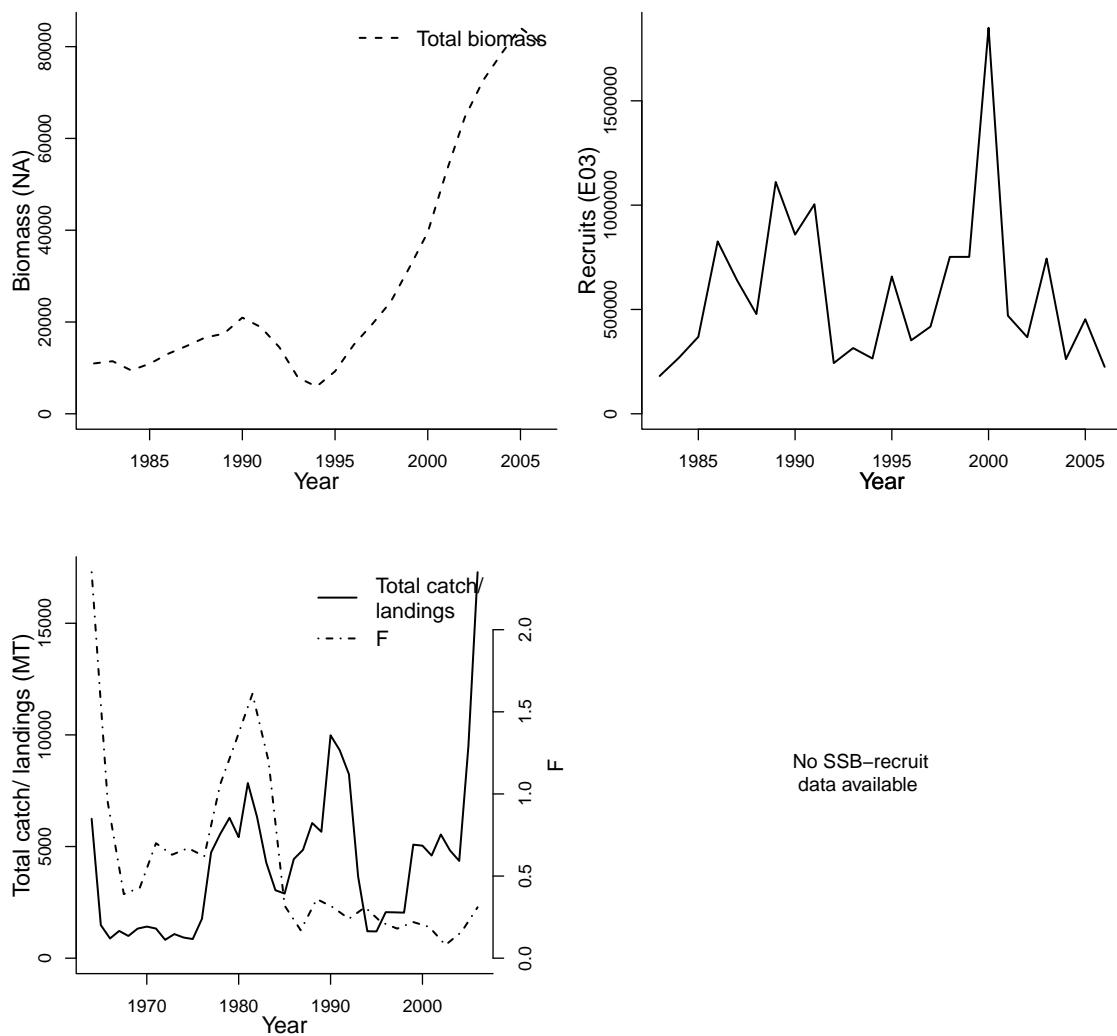
General assessment details.

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		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

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	2009-11-08
QA/QC complete	NO
Date approved	

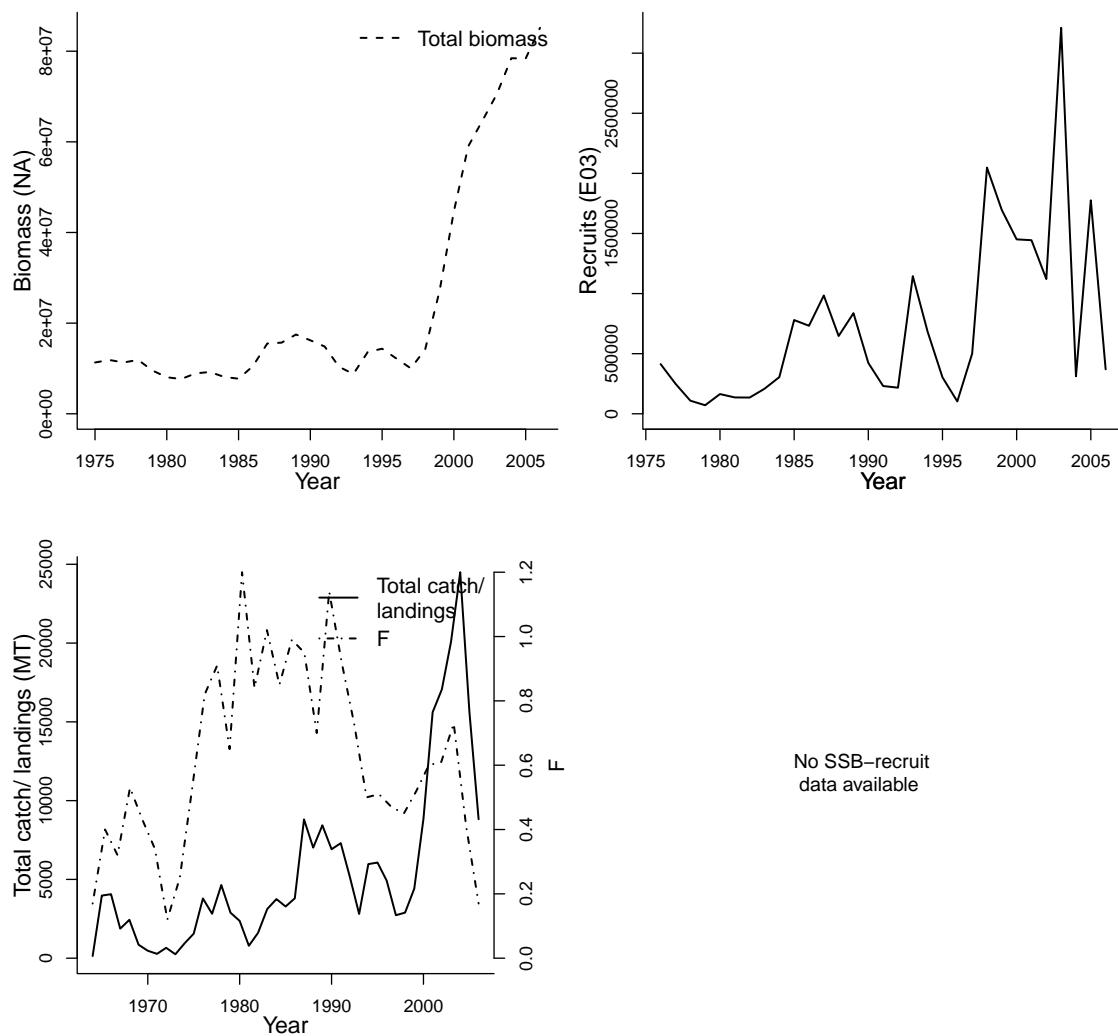
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf	na	na
<hr/>		
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
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		1976		1975	1964
Maximum year		2006		2006	2006
Time series minimum	71000		0.12	7664000	137
Time series maximum	3211000		1.2	85161000	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.marinebiodiversity.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	

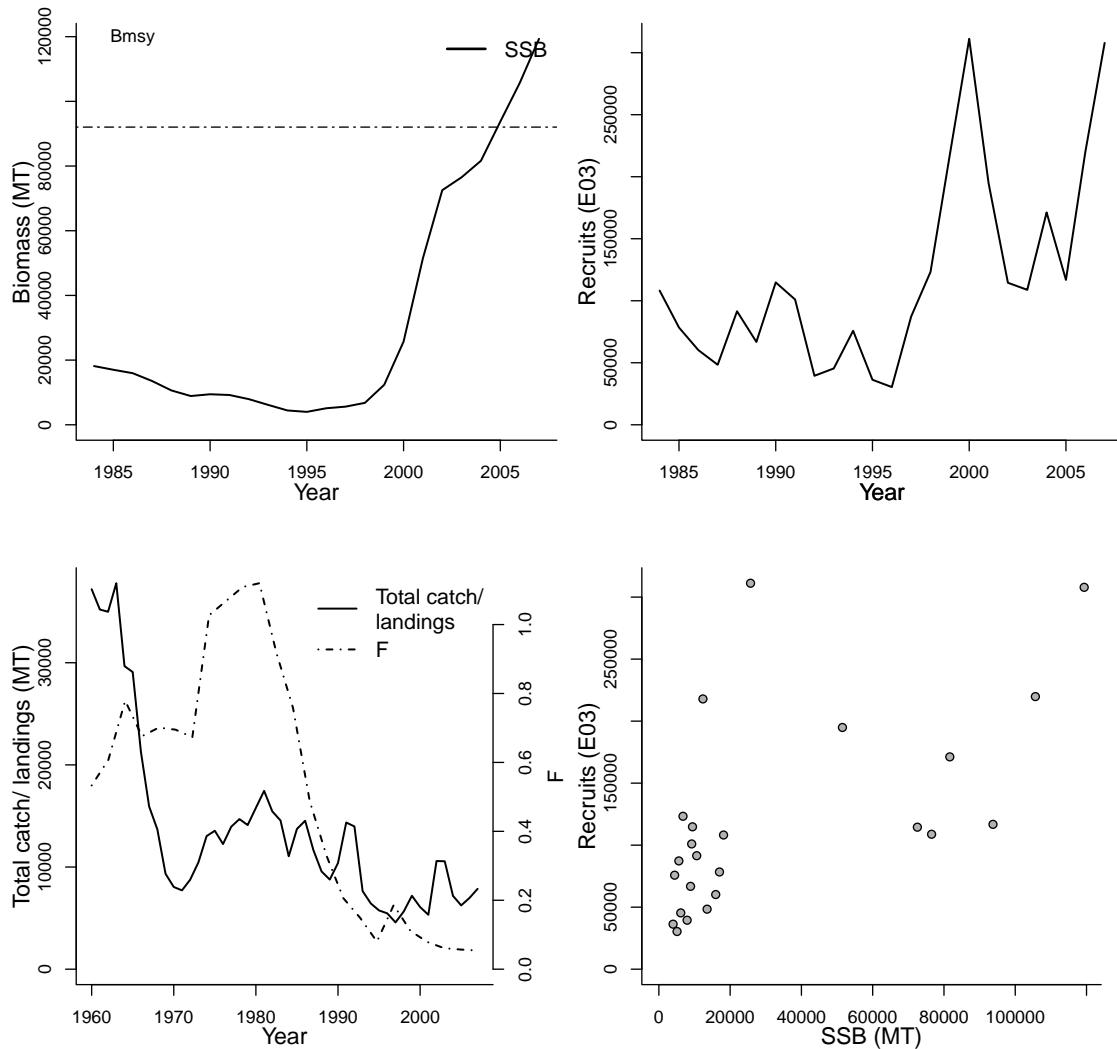
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

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
TB-AGE-yr		
M		
L50-cm		

Reference points

Parameter	Value	Units
Bmsy-MT (TB)	92044	MT
Bpa-MT (SSB)	46022	MT
F0.1-1/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.

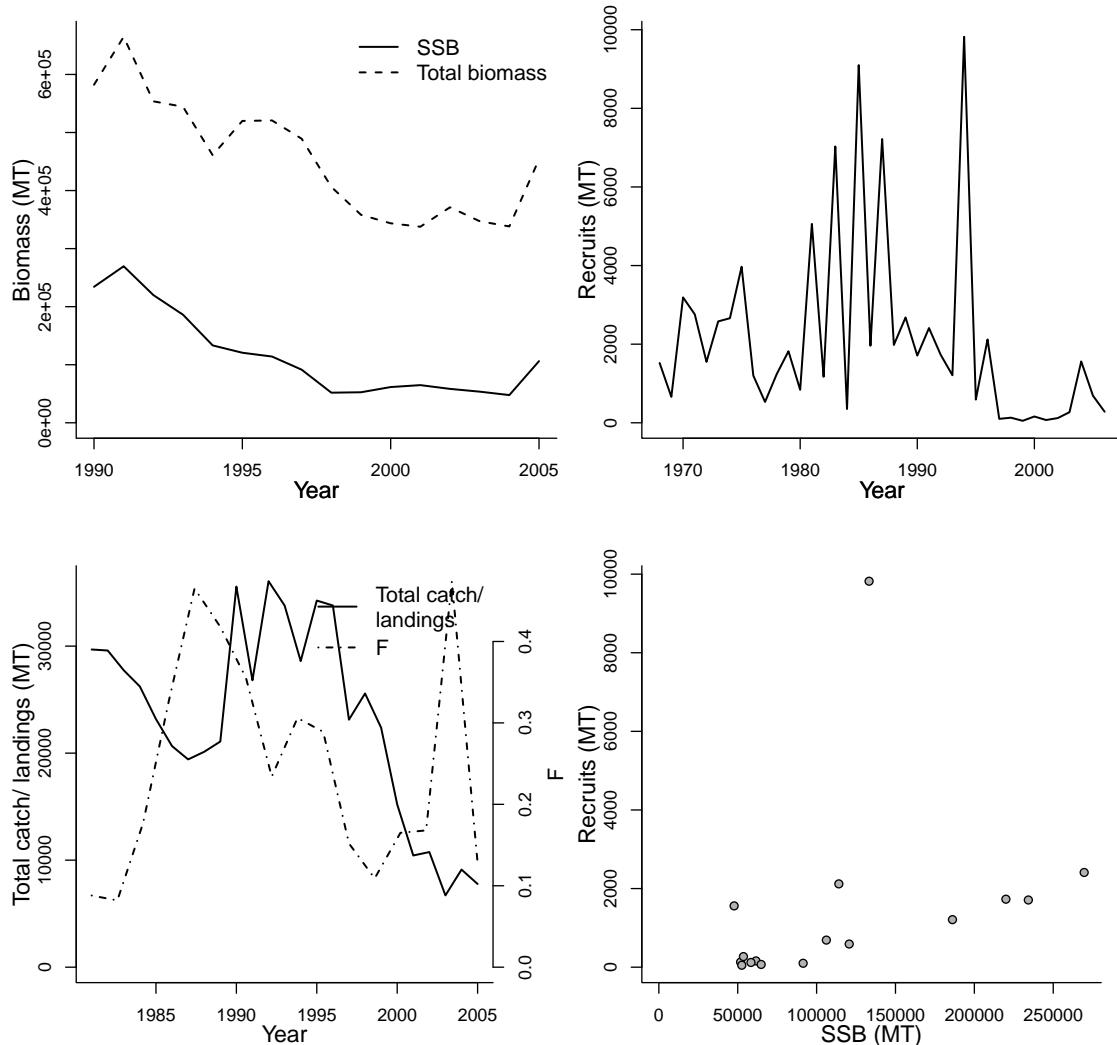
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	Unknown
Publication year	2006
Timeseries span	1962-2006
Document	spinydogfish2006.pdf (pdf in database)
Recorder	SOSEBEE
Date entered	2009-04-21
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
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Parameter	Value	Units	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

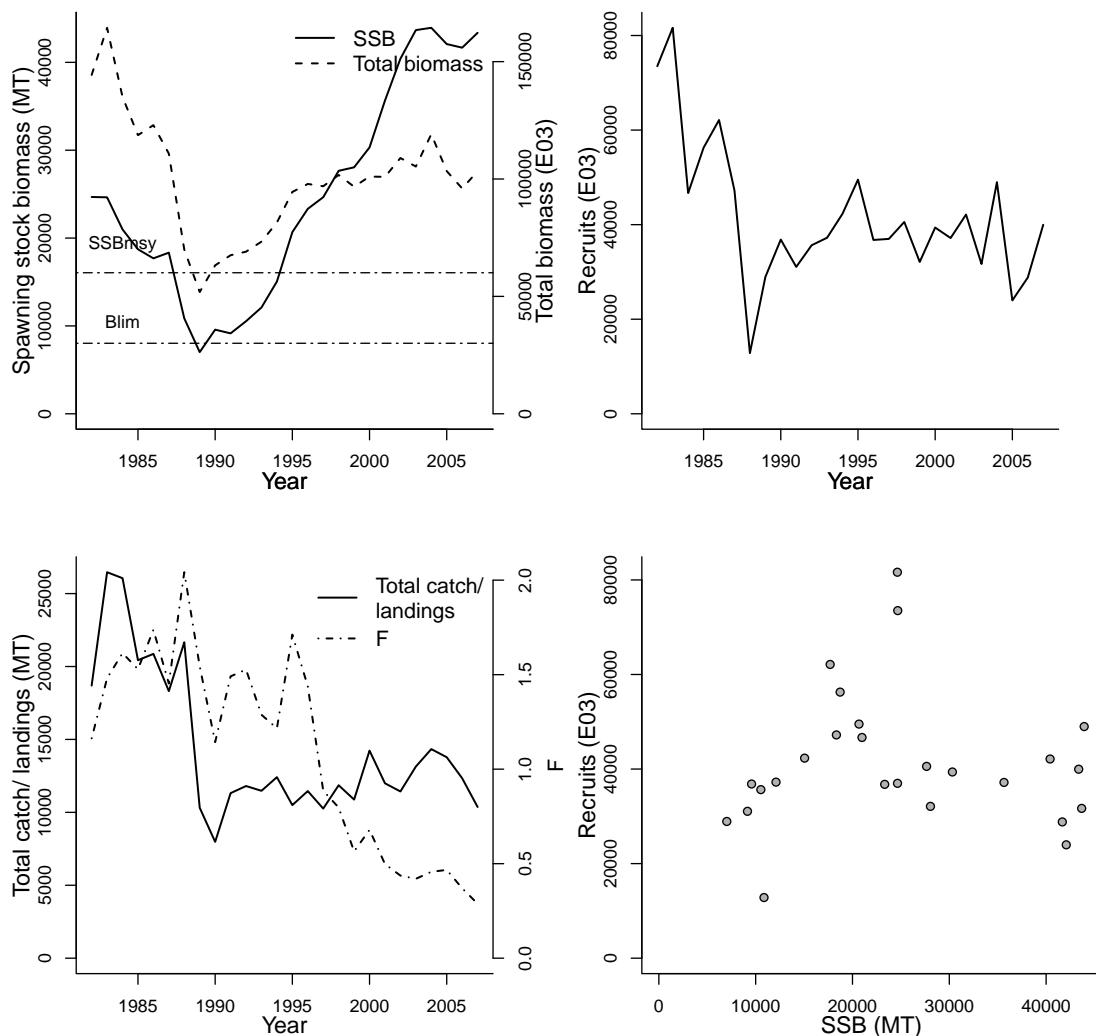
General assessment details.

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	Parameter	Reference points	Value	Parameter	Value	Units
REC-AGE-yr	0	yr	F40%-1/T		0.255	1/T		
F-AGE-yr-yr	3-7+	yr-yr	SSBmsy-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 (SSB)		30037	MT		
SSB-AGE-yr			SSB ₂₀₀₇ /B _{lim}		1.444			
TB-AGE-yr			SSB ₂₀₀₇ /SSB _{msy}		0.722			
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

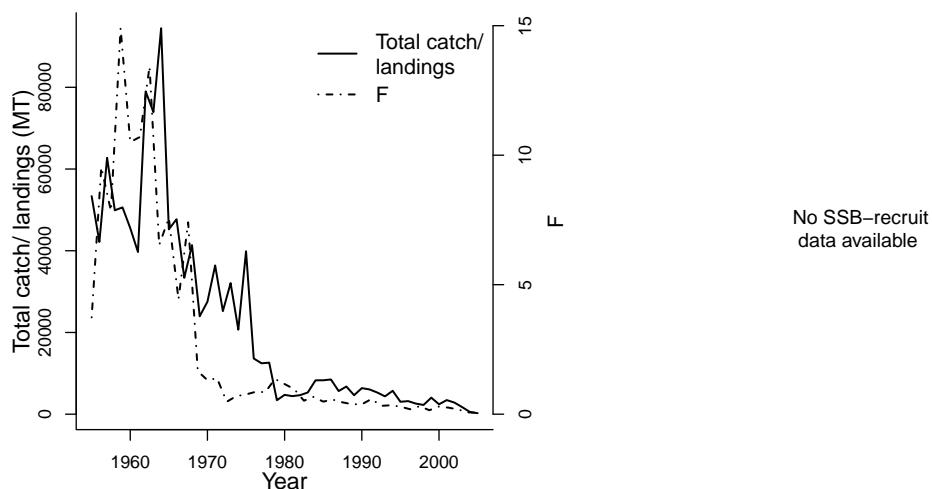
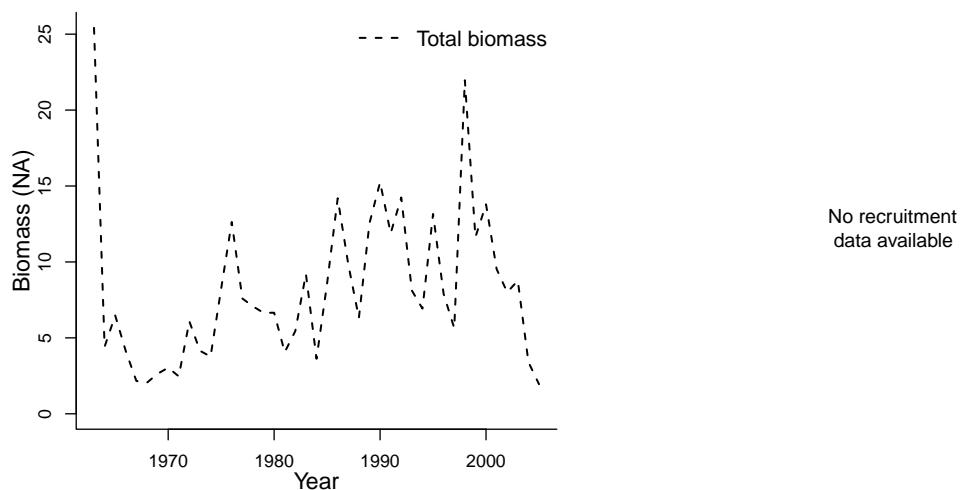
General assessment details.

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				Units
SSB-AGE-yr			Bmsy-relative	6.63
TB-AGE-yr			Bpa-relative	3.31
F-AGE-yr			Umsy-ratio (U)	2.57
M			TB_{2005}/B_{msy}	0.294
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

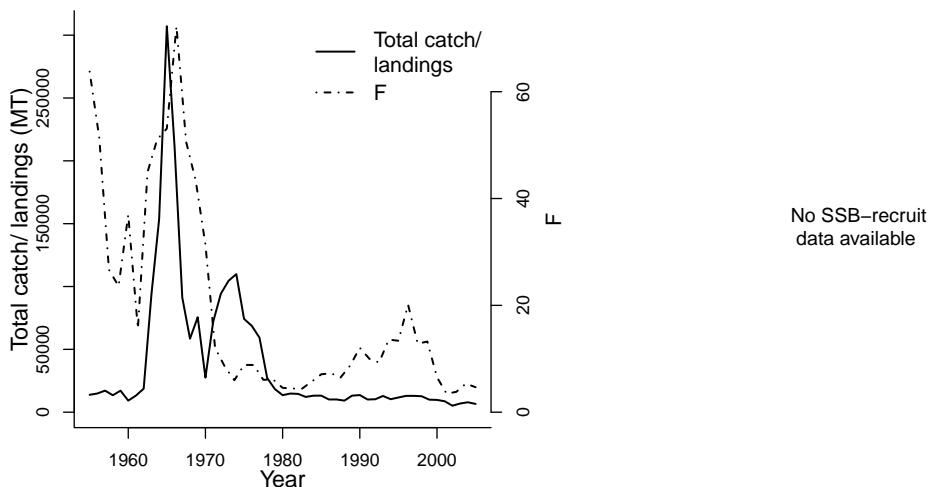
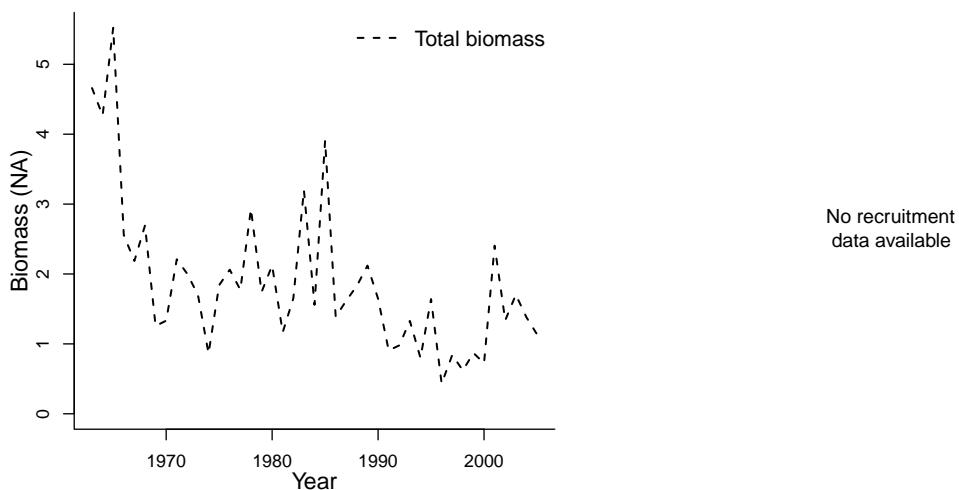
General assessment details.

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	Bmsy-relative	1.78	relative
REC-AGE			Bpa-relative	0.89	relative
SSB-AGE-yr			Umsy-ratio (U)	34.39	ratio
TB-AGE-yr			Upa-ratio	20.63	ratio
F-AGE-yr			TB_{2005}/B_{msy}	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		
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 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

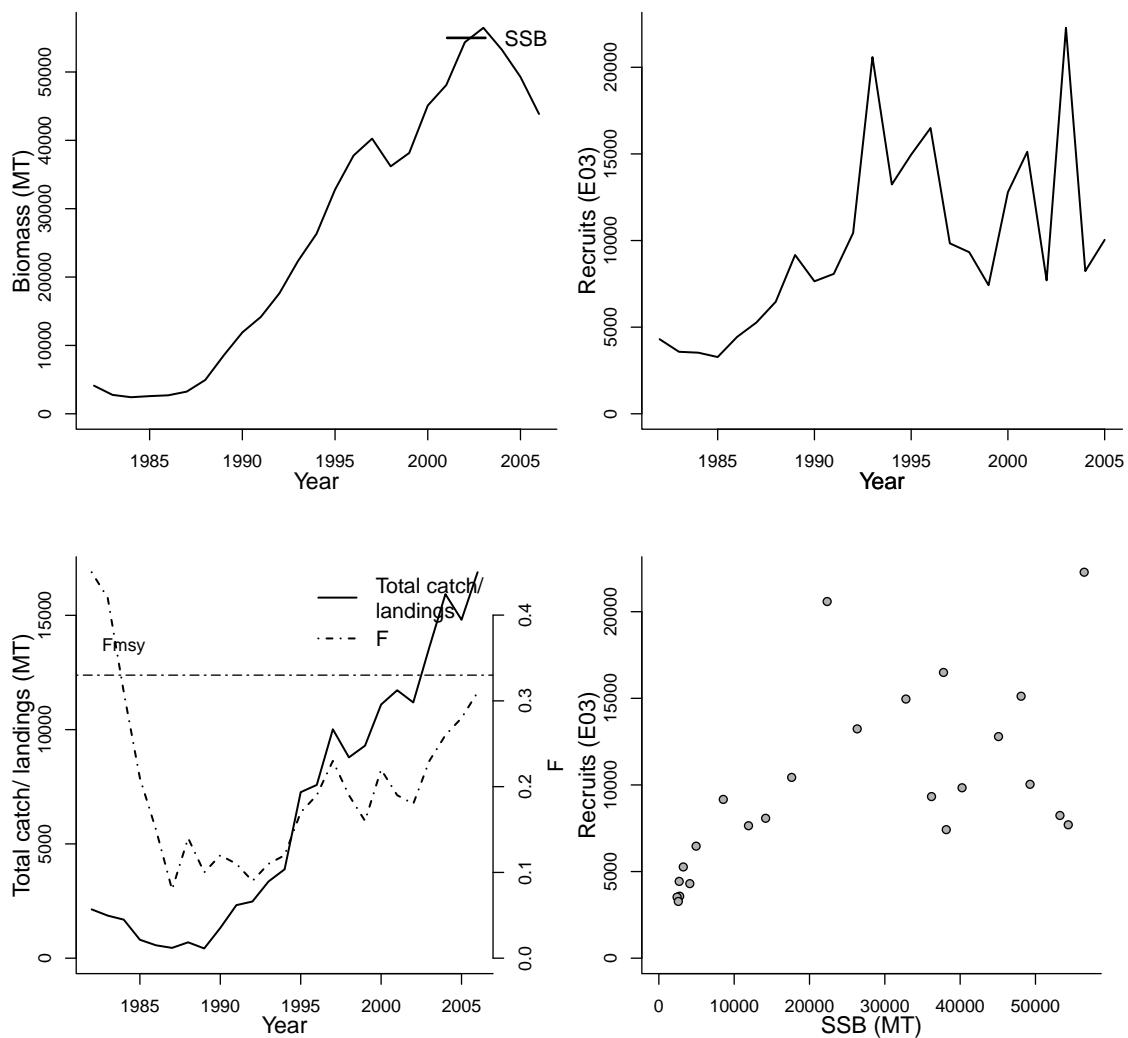
General assessment details.

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		
REC-AGE-yr	1	yr	Reference points	
F-AGE-yr-yr	8-11	yr-yr	Parameter	Value
TB-AGE-yr	0+	yr		Units
A50-yr	6	yr	F _{msy} -1/T (F)	0.33 1/T
M-1/T	0.15	1/T	MSY-MT (TB)	17823 MT
M			F_{2006}/F_{msy}	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

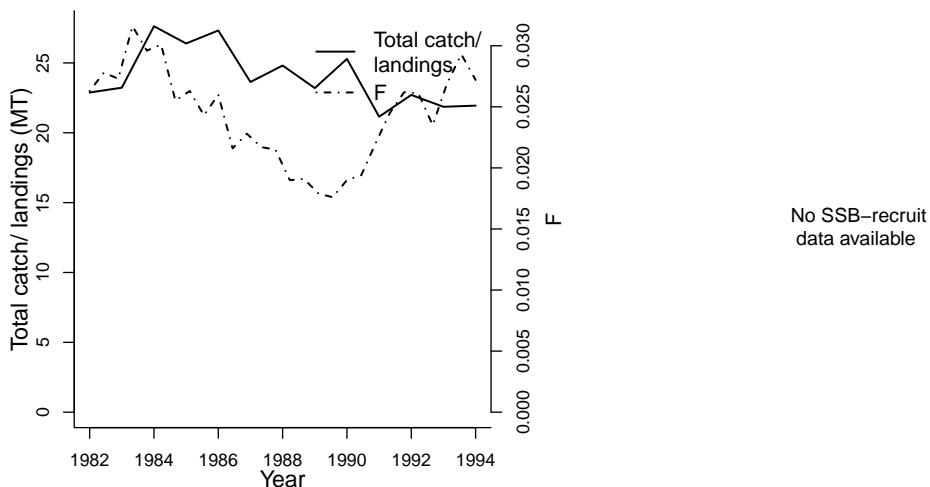
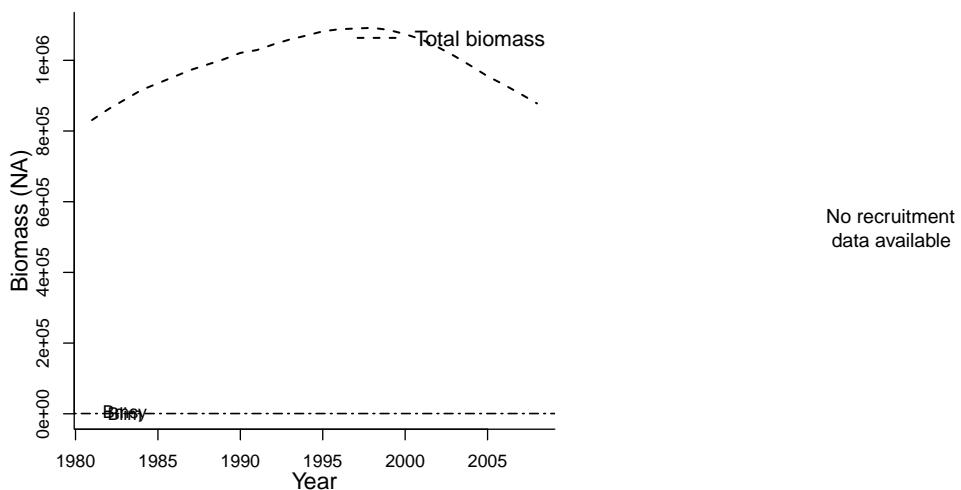
General assessment details.

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	2010-01-04
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	
SSB-AGE-yr	0.25	yr	Parameter	Value
REC-AGE-yr	5.936	yr	Blim-MT (SSB)	878
F-AGE-yr-yr	5.9+	yr-yr	Bmsy-MT (TB)	543
TB-AGE-yr	5.9+	yr	Fmsy-1/yr (F)	0.15
M-1/yr	0.15	1/yr	Fmsy-1/T (F)	0.15
M			$TB_{2008}/B_{m sy}$	1616.943
A50-yr			$F_{2008}/F_{m sy}$	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

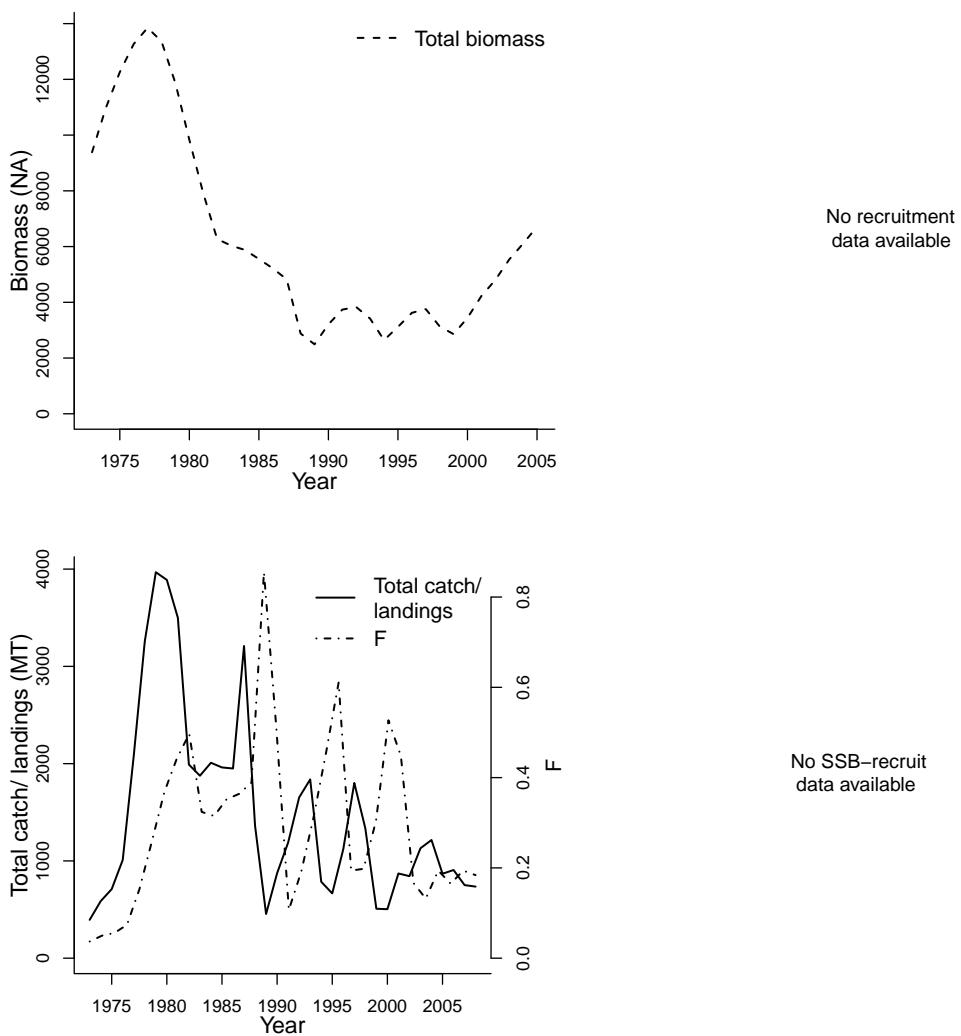
General assessment details.

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
TB-AGE-yr			Value
F-AGE-yr			Units
M			
<hr/>			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1973	1973
Maximum year				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		
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 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

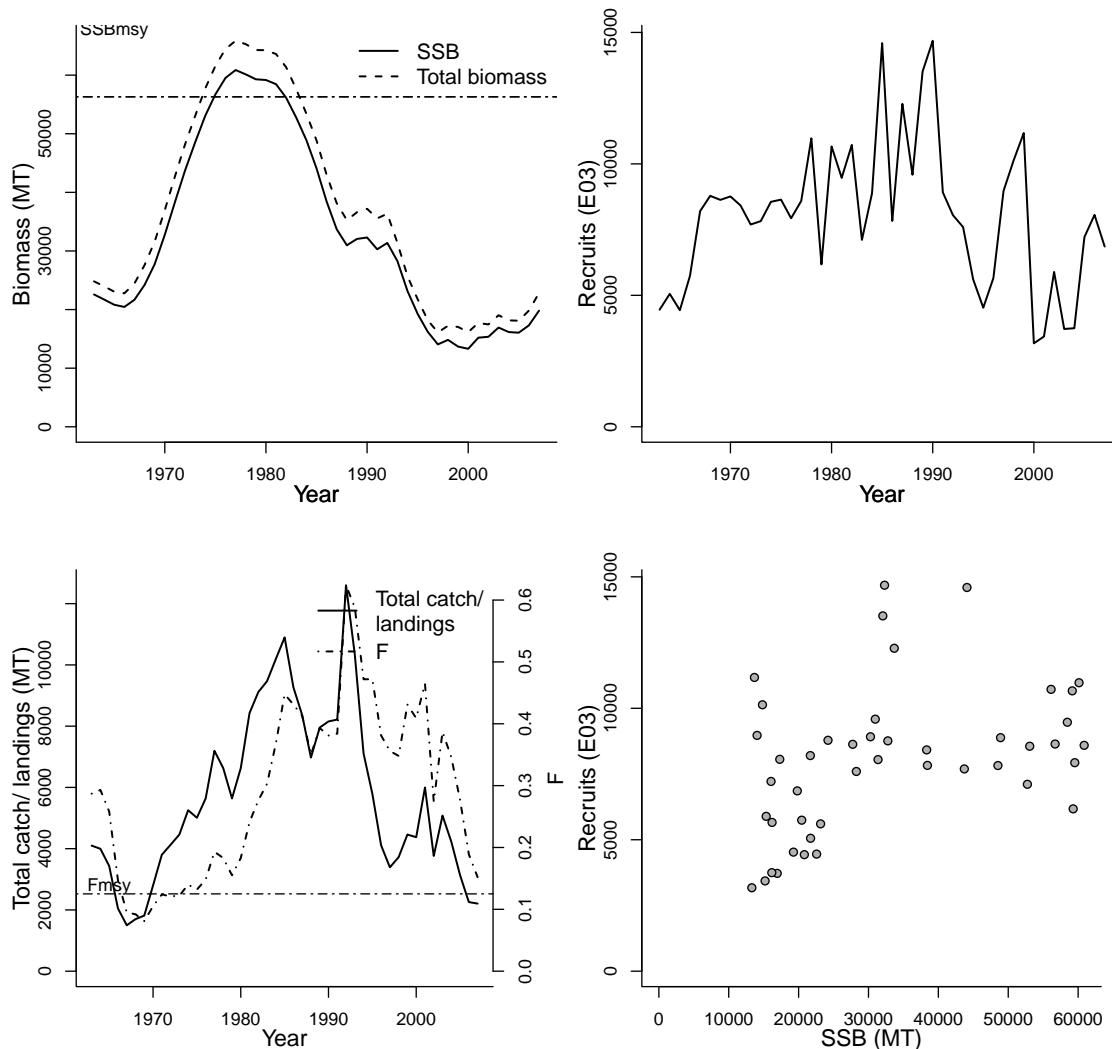
General assessment details.

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	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	
REC-AGE-yr	1	yr	Bmsy-MT (TB)	56300 MT
F-AGE-yr-yr	1-9	yr-yr	Fmsy-1/yr (F)	0.125 1/yr
TB-AGE-yr	1	yr	SPRF0-E01 (SPR)	17.5788 E01
A50-yr	2.568	yr	F40%-1/T	0.13 1/T
M-1/T	0.2	1/T	SSBmsy-MT (SSB)	56300 MT
SSB-AGE-yr			MSY-MT (TB)	5800 MT
M			Frebuild-1/T (F)	0.13 1/T
L50-cm			TB_{2007}/B_{msy}	0.405
			F_{2007}/F_{msy}	1.216
			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

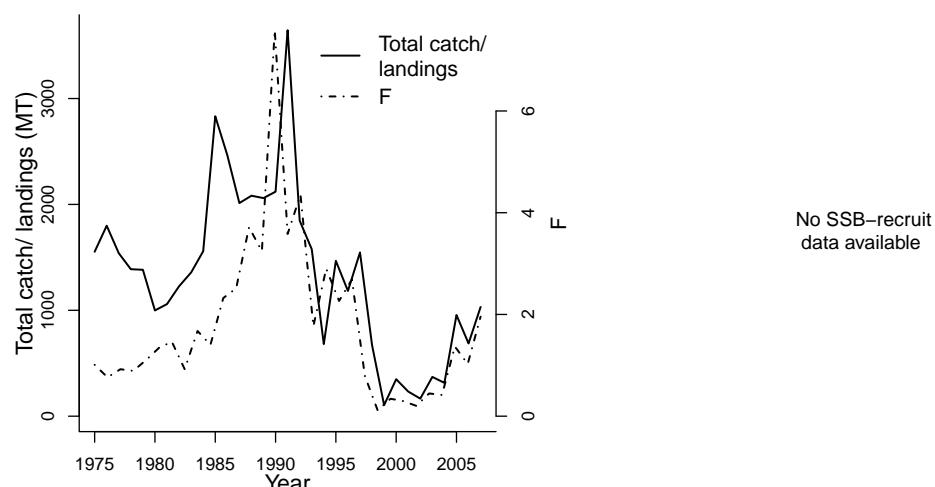
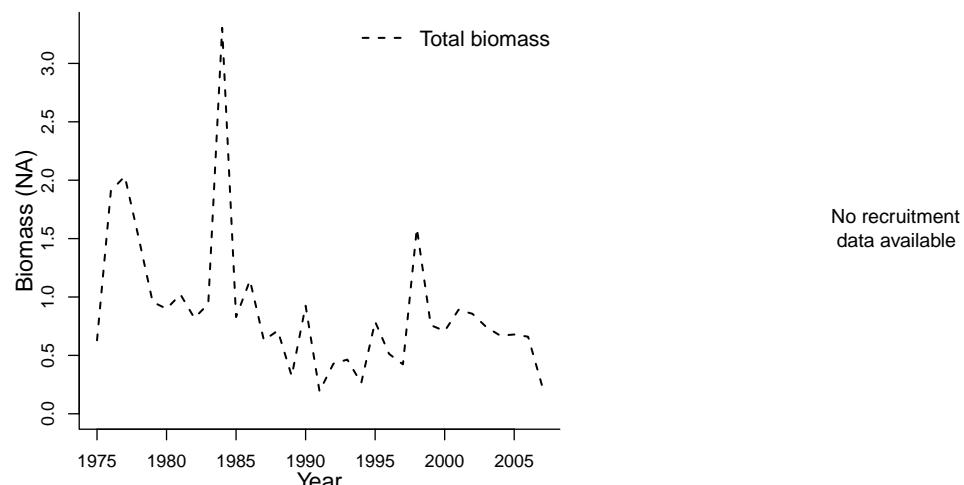
General assessment details.

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
TB-AGE-yr			Umsy-ratio (U)	0.50
F-AGE-yr			Bmsy-relative	1.40
M			TB_{2007}/B_{msy}	0.173
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

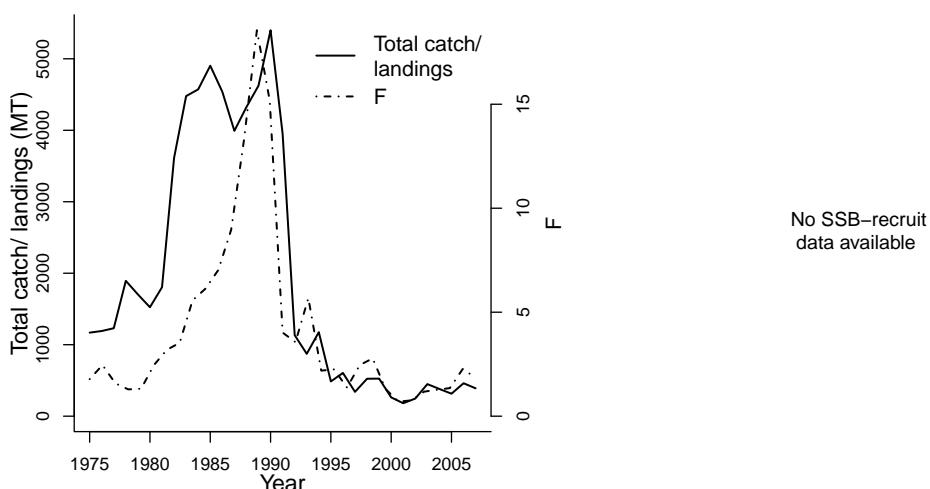
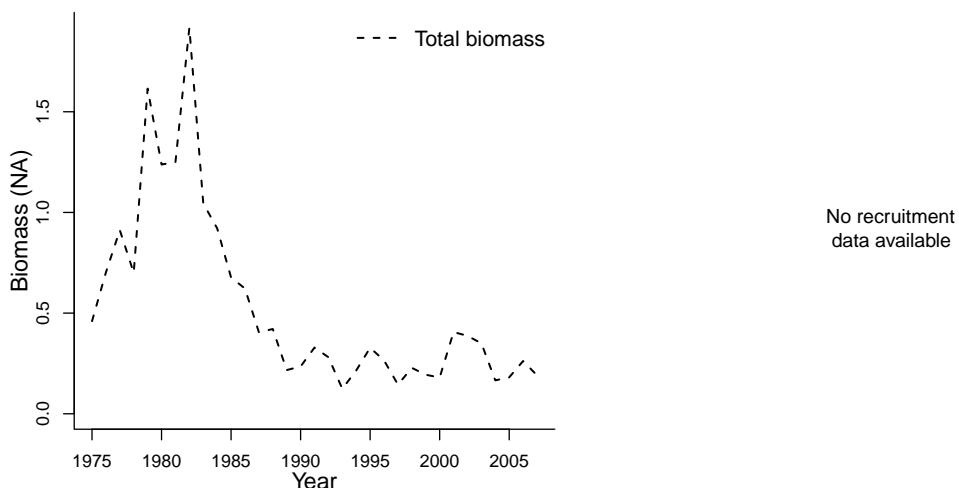
General assessment details.

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
TB-AGE-yr			Umsy-ratio (U)	1.47
F-AGE-yr			Bmsy-relative	0.34
M			TB_{2007}/B_{msy}	0.562
A50-yr				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1977	1975
Maximum year			2007	2007
Time series minimum			0.7	0.124
Time series maximum			18.56	1.917
Units		ratio	relative	MT



Assessment of Georges Bank winter flounder (*Pseudopleuronectes americanus*)

Assessment ID:NEFSC-WINFLOUN5Z-1982-2007-HENDRICKSON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/330>

Area ID: USA-NMFS-5Z

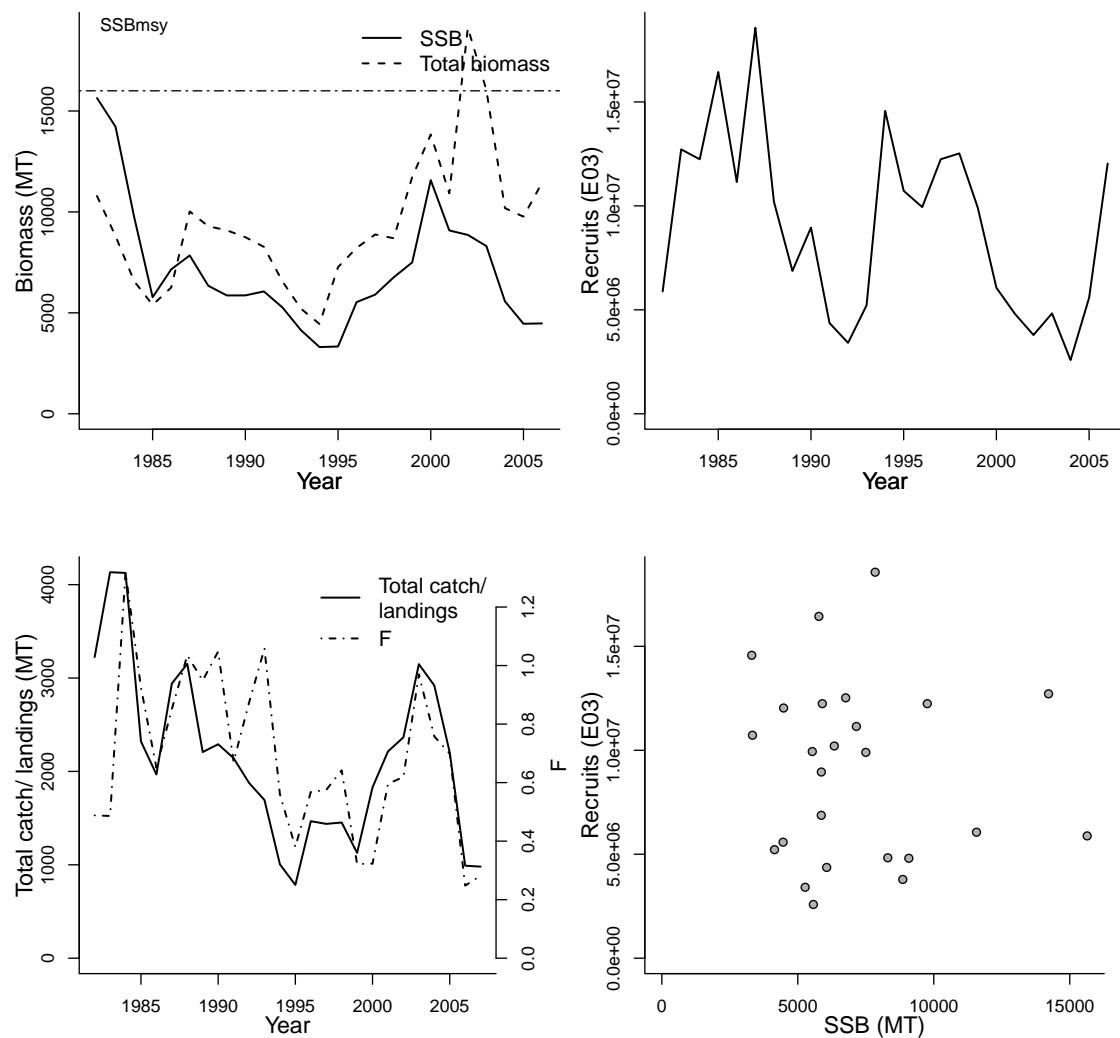
General assessment details.

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	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	
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
TB-AGE-yr			SSB_{2006}/SSB_{msy}	0.280
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	2584000	0.248	4447
Time series maximum	15641	18565000	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	

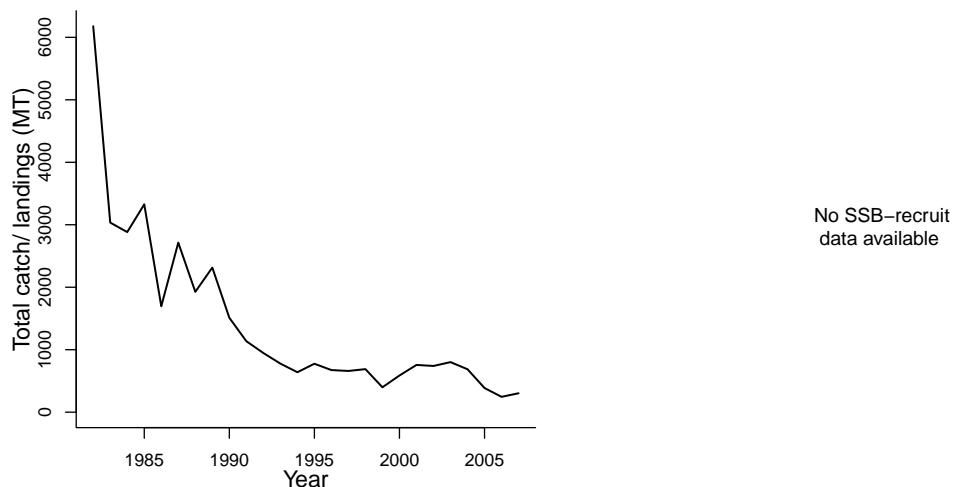
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

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		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
<hr/>		
Reference points		
Parameter	Value	Units

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.

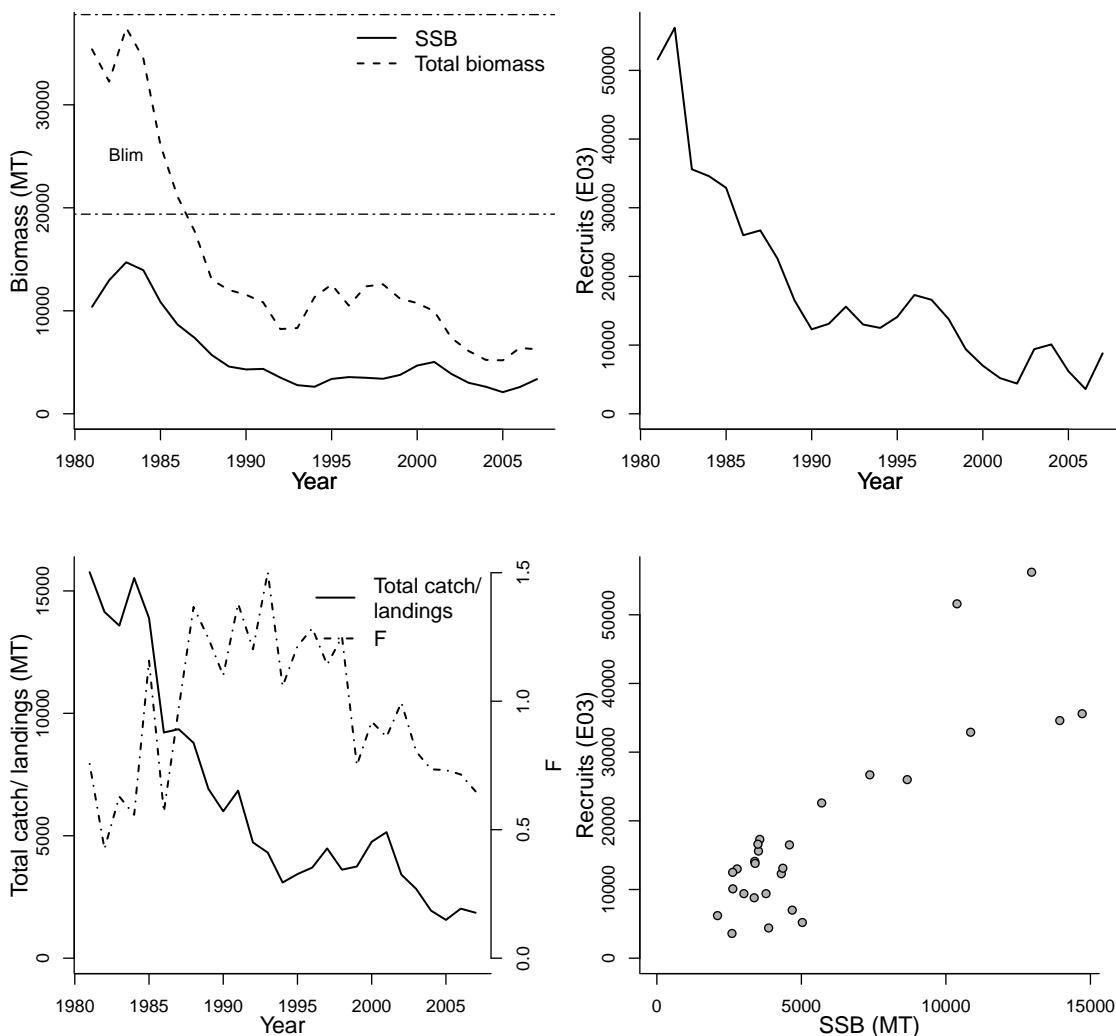
Detail	Value
Management body	NMFS
Assessment group	Northeast Fisheries Science Center
Assessment authors	Northeast Fisheries Science Center
Assessment method	VPA/ADPAT version 2.3.2 NOAA Fisheries
Publication year	2008
Timeseries span	1940-2007
Document	NMFS-SNEMATL-Pseudopleuronectesamericanus-2008.pdf (pdf not in database)
Recorder	TERCEIRO
Date entered	2008-12-03
Date last loaded	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					
REC-AGE-yr	1	yr	Parameter	Value	Units			
F-AGE-yr-yr	4-5	yr-yr	F40%-1/T	0.248	1/T			
TB-AGE-yr	1+	yr	SSB _m sy-MT (SSB)	38761	MT			
A50-yr	3	yr	MSY-MT (TB)	9742	MT			
L50-cm	AVAILABLE	cm	Frebuild-1/T (F)	0	1/T			
M-1/T	0.2	1/T	Blim-MT (SSB)	19381	MT			
SSB-AGE-yr			SSB ₂₀₀₇ /B _{lim}	0.174				
M			SSB ₂₀₀₇ /SSB _m sy	0.087				

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.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/114>

Area ID: USA-NMFS-5Y

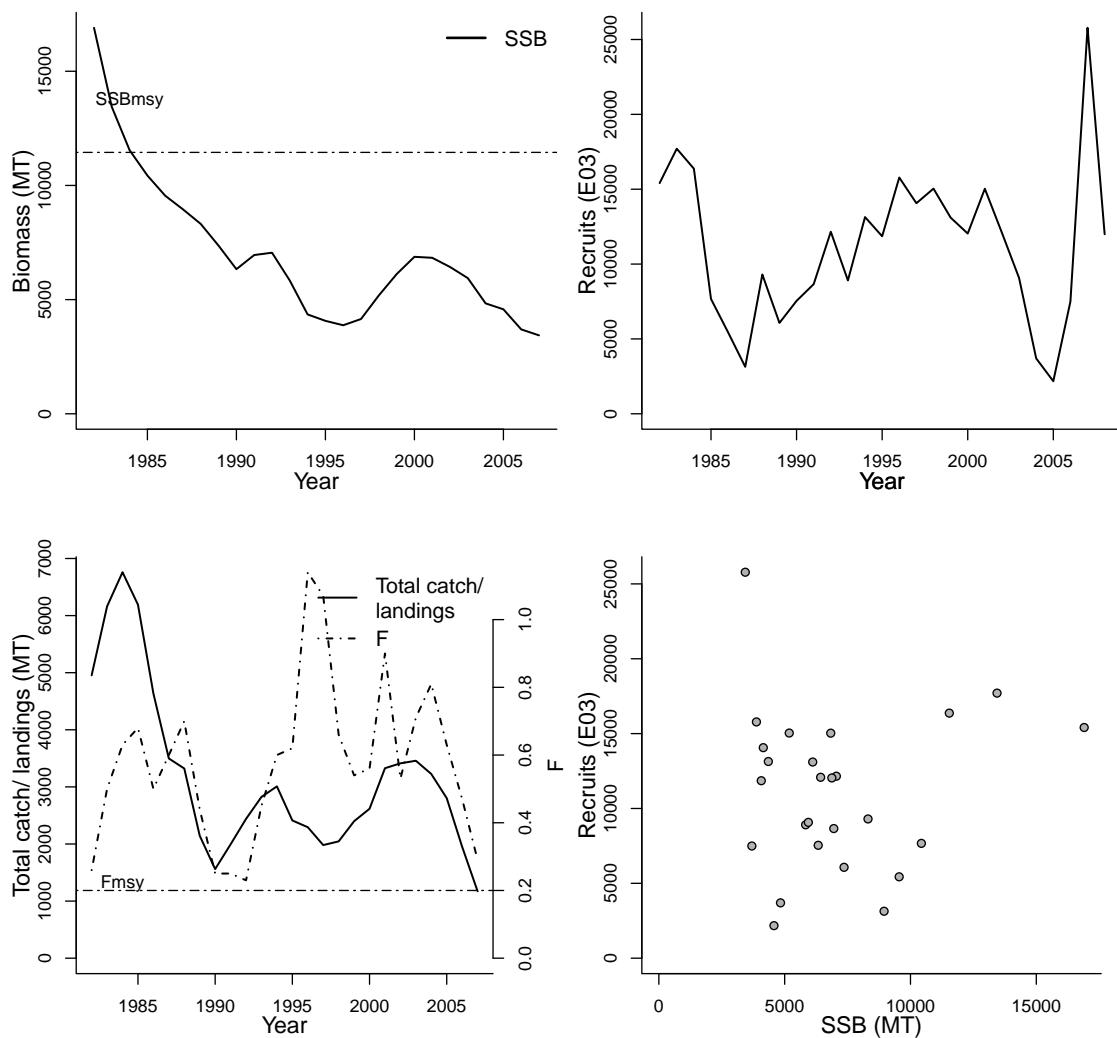
General assessment details.

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	NULL (pdf not in database)
Recorder	WIGLEY
Date entered	2008-12-10
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
SSB-AGE-yr	AVAILABLE	yr	Fmsy-1/T (F)	0.20
REC-AGE-yr	3	yr	F40%-1/T	0.20
F-AGE-yr-yr	AVAILABLE	yr-yr	SSBmsy-MT (SSB)	11447
M-1/T	0.15	1/T	MSY-MT (TB)	2352
TB-AGE-yr			Frebuild-1/T (F)	0.194
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		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

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 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

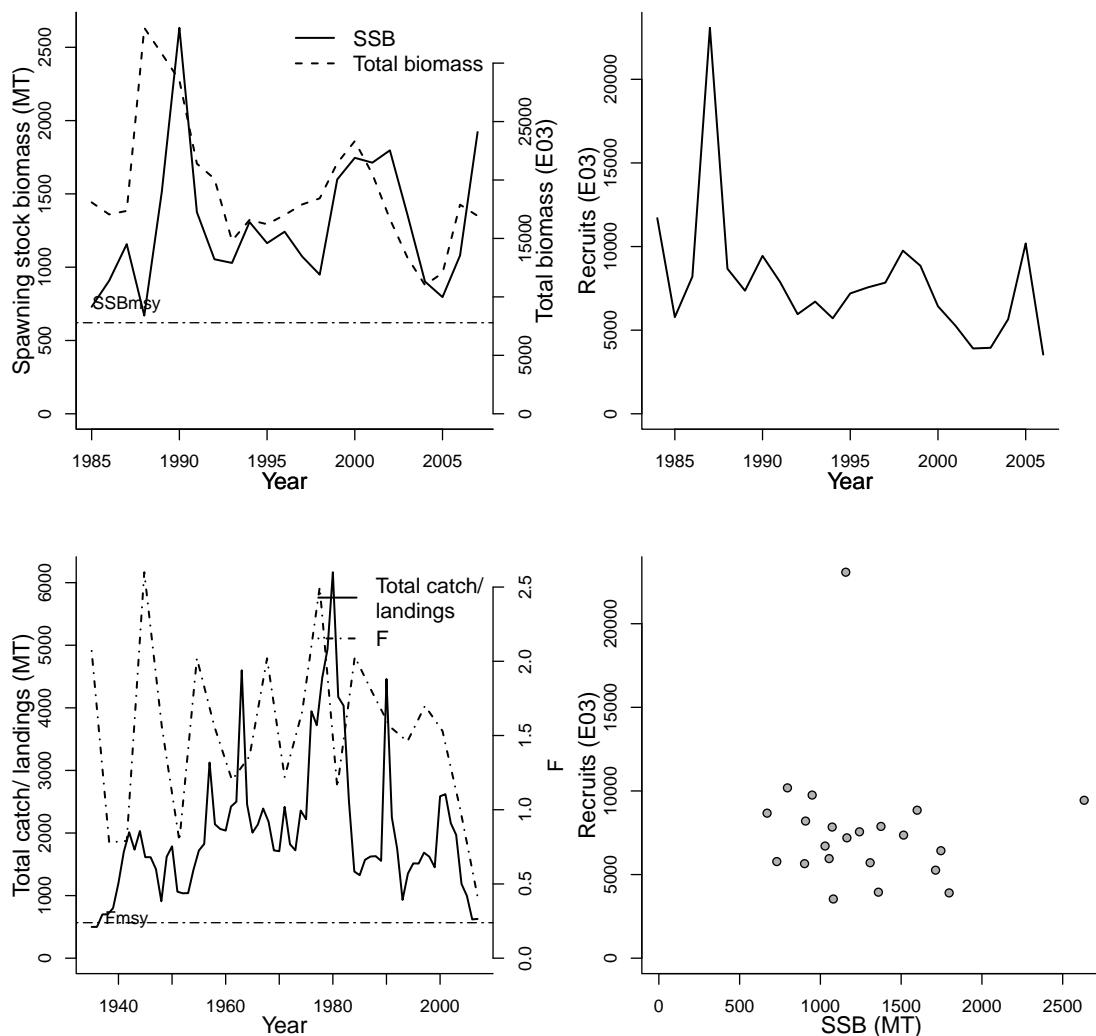
General assessment details.

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	Parameter	Reference points	
REC-AGE-yr	1	yr	Fmsy-1/T (F)	0.239	1/T
F-AGE-yr-yr	4+	yr-yr	F40%-1/T	0.239	1/T
A50-yr	2	yr	SSBmsy-MT (SSB)	7790	MT
SSB-AGE-yr			MSY-MT (TB)	1720	MT
TB-AGE-yr			Frebuild-1/T (F)	0.238	1/T
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

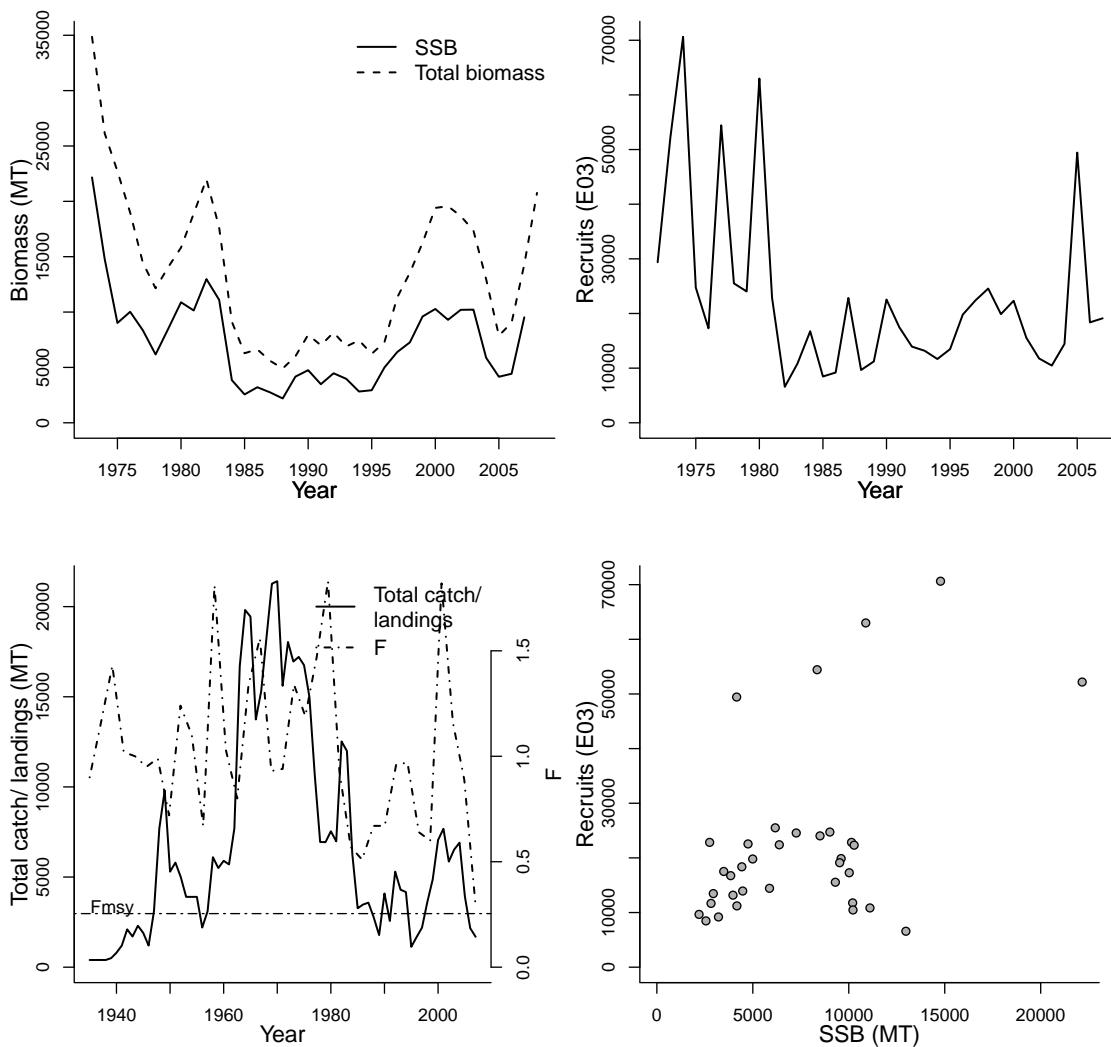
General assessment details.

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	Parameter	Reference points	
REC-AGE-yr	1	yr	Fmsy-1/T (F)	0.254	1/T
F-AGE-yr-yr	4+	yr-yr	F40%-1/T	0.254	1/T
A50-yr	2	yr	SSBmsy-MT (SSB)	43200	MT
SSB-AGE-yr			MSY-MT (TB)	9400	MT
TB-AGE-yr			Frebuild-1/T (F)	0.202	1/T
M			F_{2007}/F_{msy}	1.142	
L50-cm			SSB_{2007}/SSB_{msy}	0.221	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1973	1972	1973	1973
Maximum year	2007	2007	2007	2008
Time series minimum	2198	6581	0.29	4904
Time series maximum	22161	70632	1.83	34860
Units	MT	E03	1/T	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

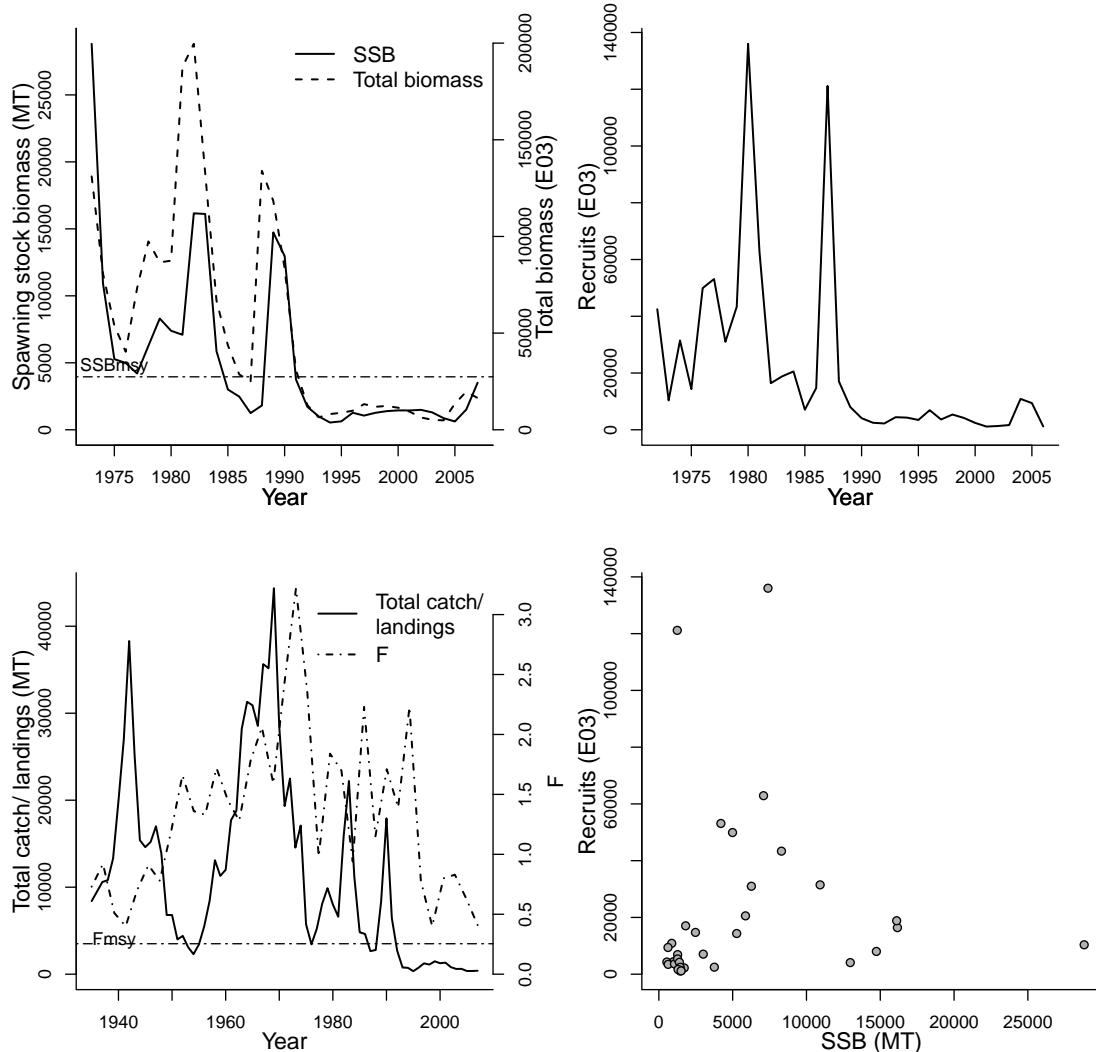
General assessment details.

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	Parameter	Reference points
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 North Pacific pacific chub mackerel (*Scomber japonicus*)

Assessment ID:NMFS-CMACKNPAC-1929-2005-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/409>

Area ID: USA-NMFS-NPAC

General assessment details.

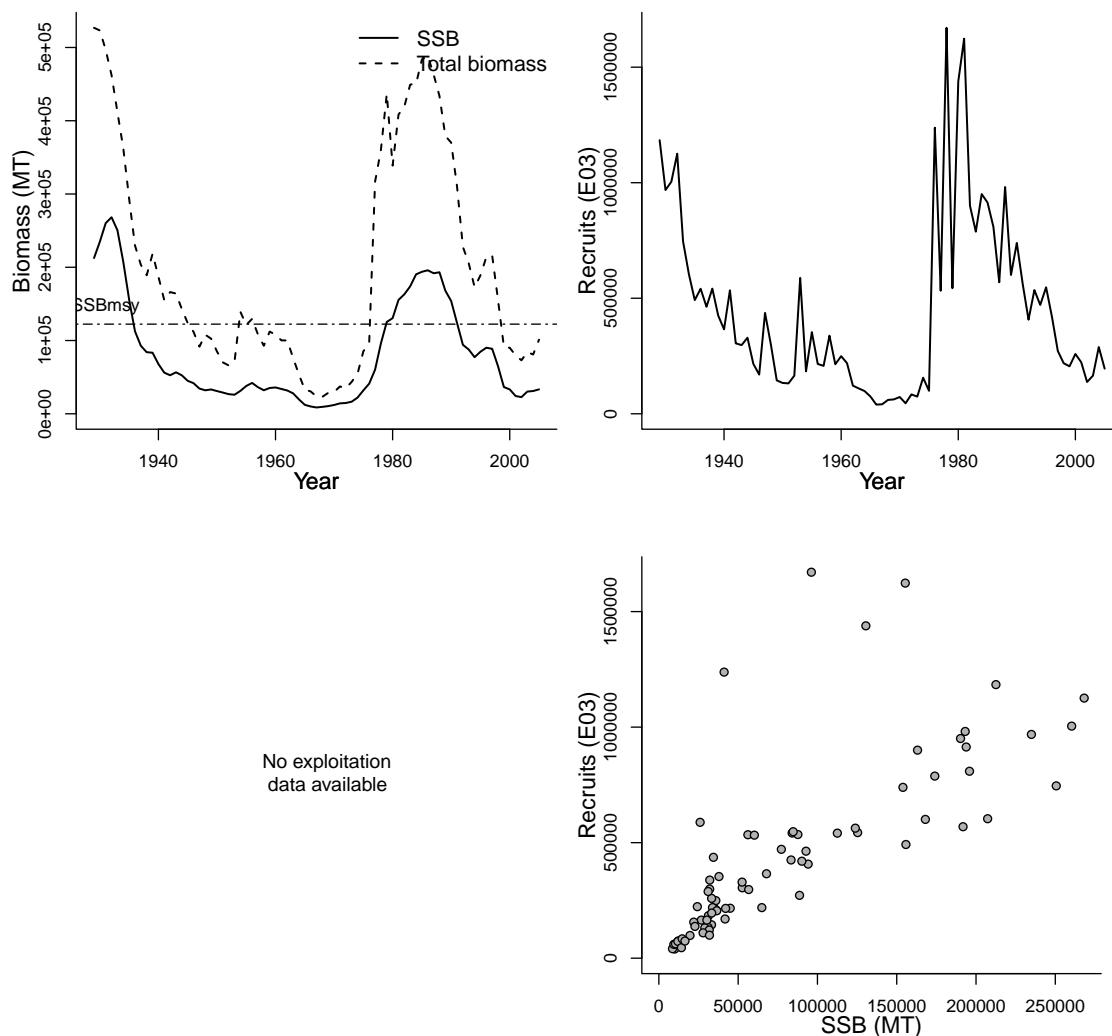
Detail	Value
Management body	NMFS
Assessment group	NOAA Fisheries - National Marine Fisheries Service
Assessment authors	Dorval, Emmanis
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2008
Timeseries span	1929-2005
Document	2008_SAFE_PacMackerel.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-08-04
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.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			2 - Gulf of Alaska	1 - East Bering Sea	na
SSB-AGE-yr	1	yr			
REC-AGE-yr	0	yr			
TB-AGE-yr	1+	yr			
M-1/yr	0.5	1/yr			
NATMORT-1/yr	0.5	1/yr			
F-AGE-yr					
M					
A50-yr					
L50-cm					

Parameter	Reference points	Value	Units
Fmsy-1/yr (F)	0.138133	1/yr	
NATMORT-1/yr (M)	0.5	1/yr	
SSBmsy-MT (SSB)	122357	MT	
MSY-MT (TB)	23048.20	MT	
SSB_{2005}/SSB_{msy}	0.272		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1929	1929		1929
Maximum year	2005	2005		2005
Time series minimum	8608	39723		23161
Time series maximum	268210	1670390		526869
Units	MT	E03		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

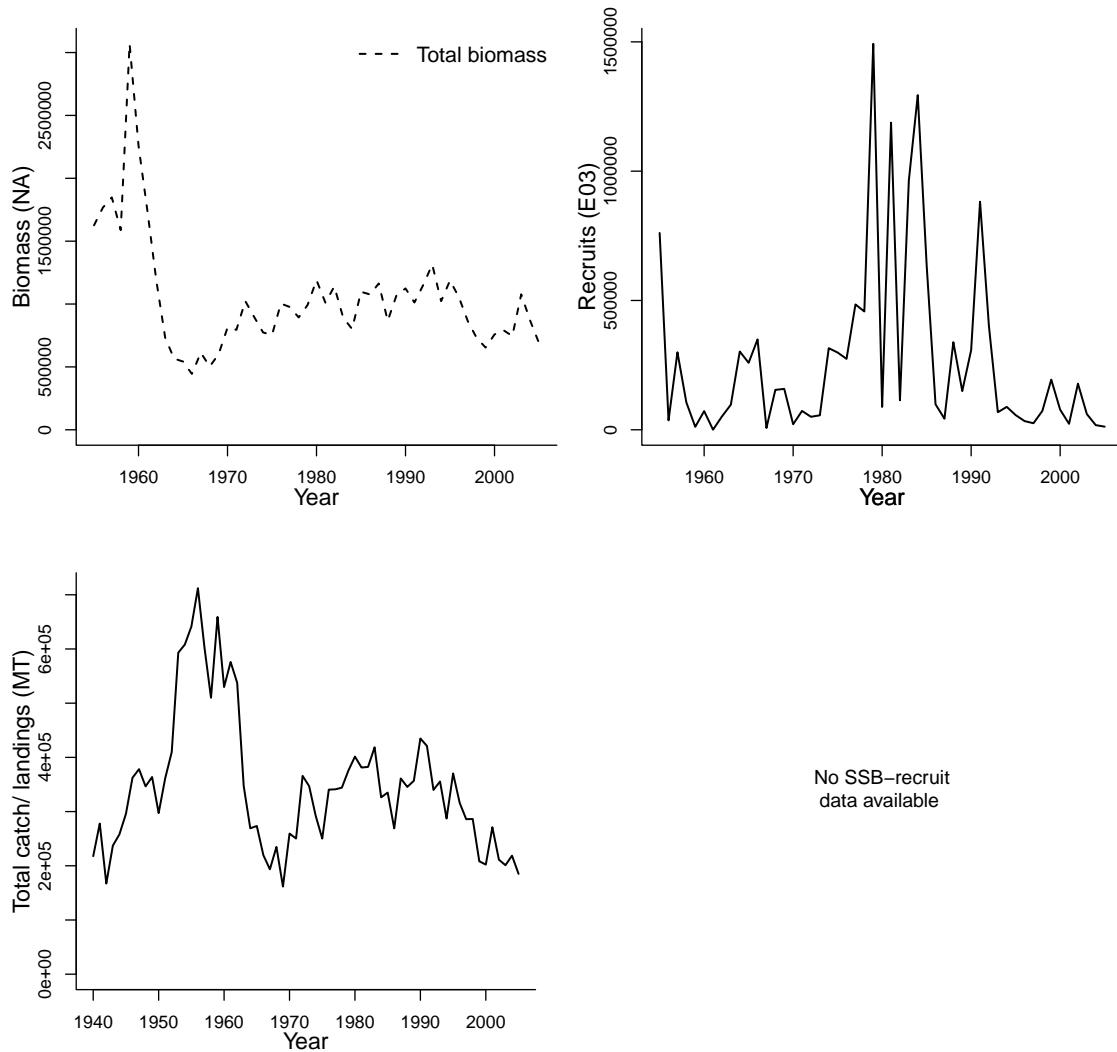
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	NOAA Fisheries - National Marine Fisheries Service
Assessment authors	NA
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	2009-06-10
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
7 - Northeast U.S. Continental Shelf	6 - Southeast U.S. Continental Shelf	8 - Scotian Shelf
<hr/>		
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		
M		
A50-yr		
L50-cm		
<hr/>		
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 North Pacific pacific sardine (*Sardinops sagax*)

Assessment ID:NMFS-SARDNPAC-1981-2008-STANTON

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/408>

Area ID: USA-NMFS-NPAC

General assessment details.

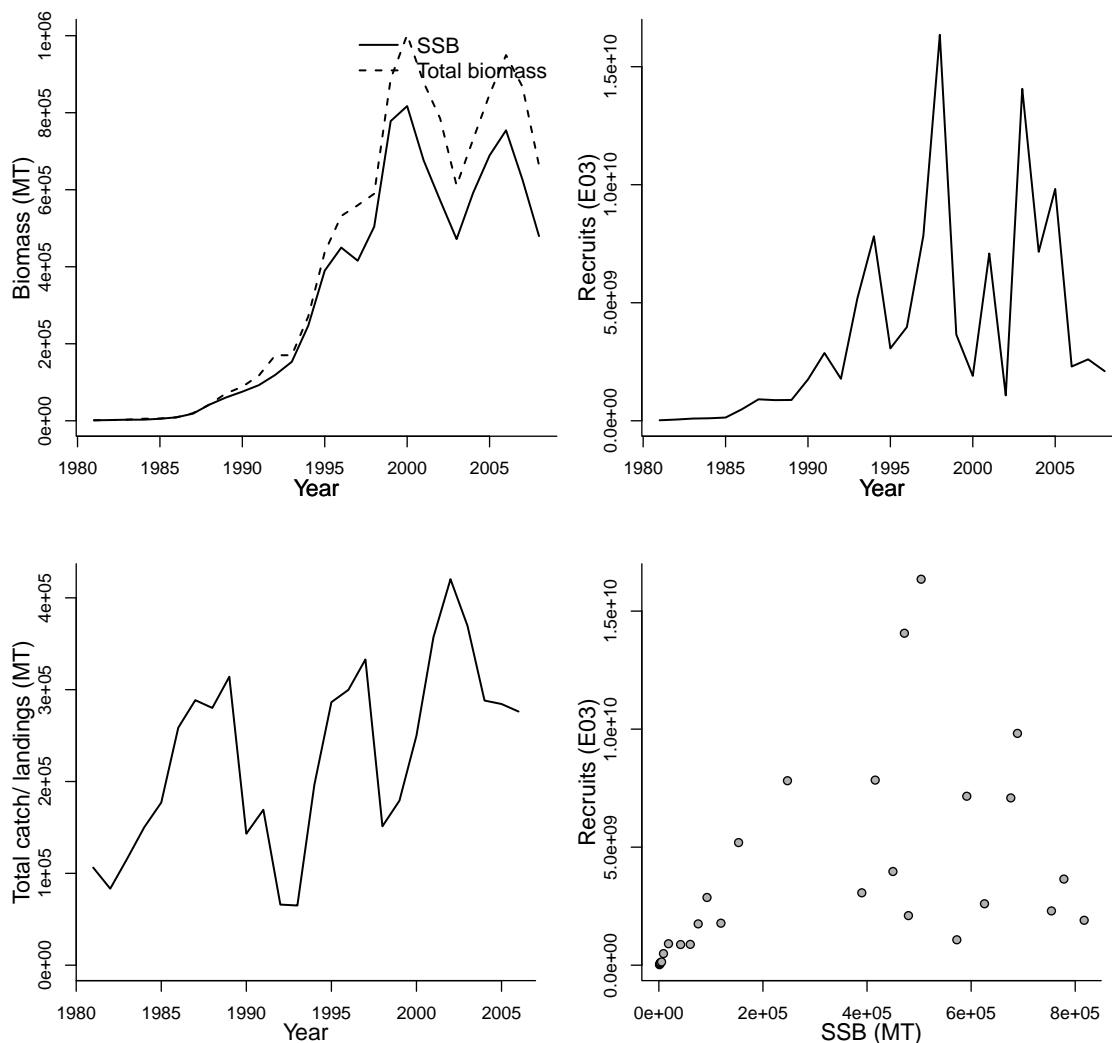
Detail	Value
Management body	NMFS
Assessment group	NOAA Fisheries - National Marine Fisheries Service
Assessment authors	Hill, Kevin
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2007
Timeseries span	1981-2008
Document	2008 pac sardine.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-08-04
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.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			2 - Gulf of Alaska	1 - East Bering Sea	na
SSB-AGE-yr	1	yr			
REC-AGE-yr	0	yr			
TB-AGE-yr	1+	yr			
L50-cm	16	cm			
M-1/yr	0.4	1/yr			
NATMORT-1/yr	0.4	1/yr			
F-AGE-yr					
M					
A50-yr					

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.15	1/yr
NATMORT-1/yr (M)	0.4	1/yr
MSY-MT (TB)	89093	MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981	1981		1981	1981
Maximum year	2008	2008		2008	2006
Time series minimum	1257	22000000		1315	65007
Time series maximum	817219	16351000000		1002330	420280
Units	MT	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

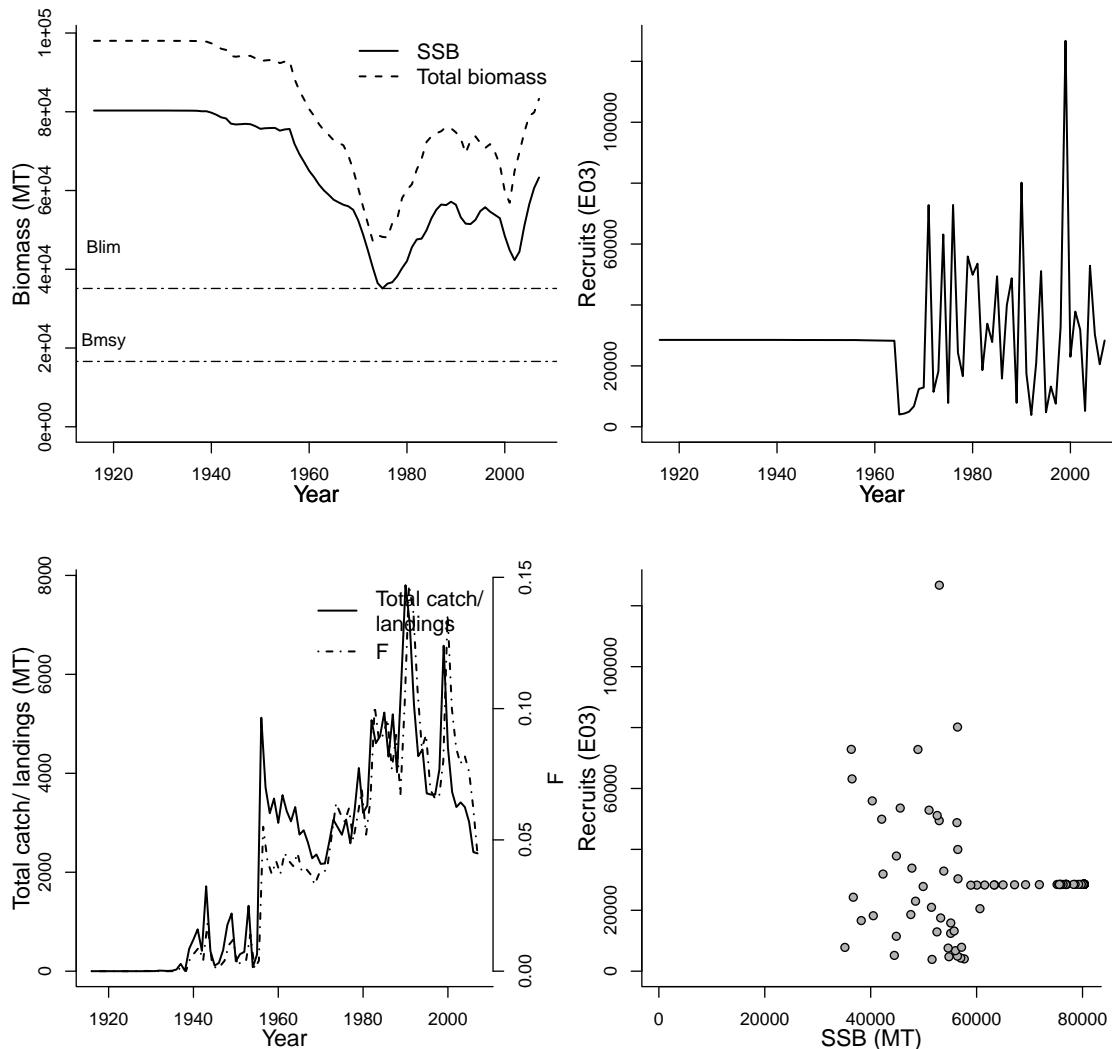
General assessment details.

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	2009-05-01
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			
Parameter	Value	Units	Reference points	Value	Units
SSB-AGE-yr	4.5	yr	BH-h-dimless	0.902	dimless
REC-AGE-yr	0	yr	Blim-MT (SSB)	35129	MT
F-AGE-yr-yr	3+	yr-yr	Bmsy-MT (TB)	16593	MT
TB-AGE-yr	3+	yr	Fmsy-1/yr (F)	0.21	1/yr
L50-cm	37.3	cm	SSB0-MT (SSB)	80313	MT
M-1/yr	0.166	1/yr	R0-E03 (R)	28528	E03
A50-yr	4.5	yr	SSBtarget-MT (SSB)	30780	MT
M			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
			SSB_{2007}/B_{lim}	1.802	
			TB_{2007}/B_{msy}	5.020	
			F_{2006}/F_{msy}	0.210	

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

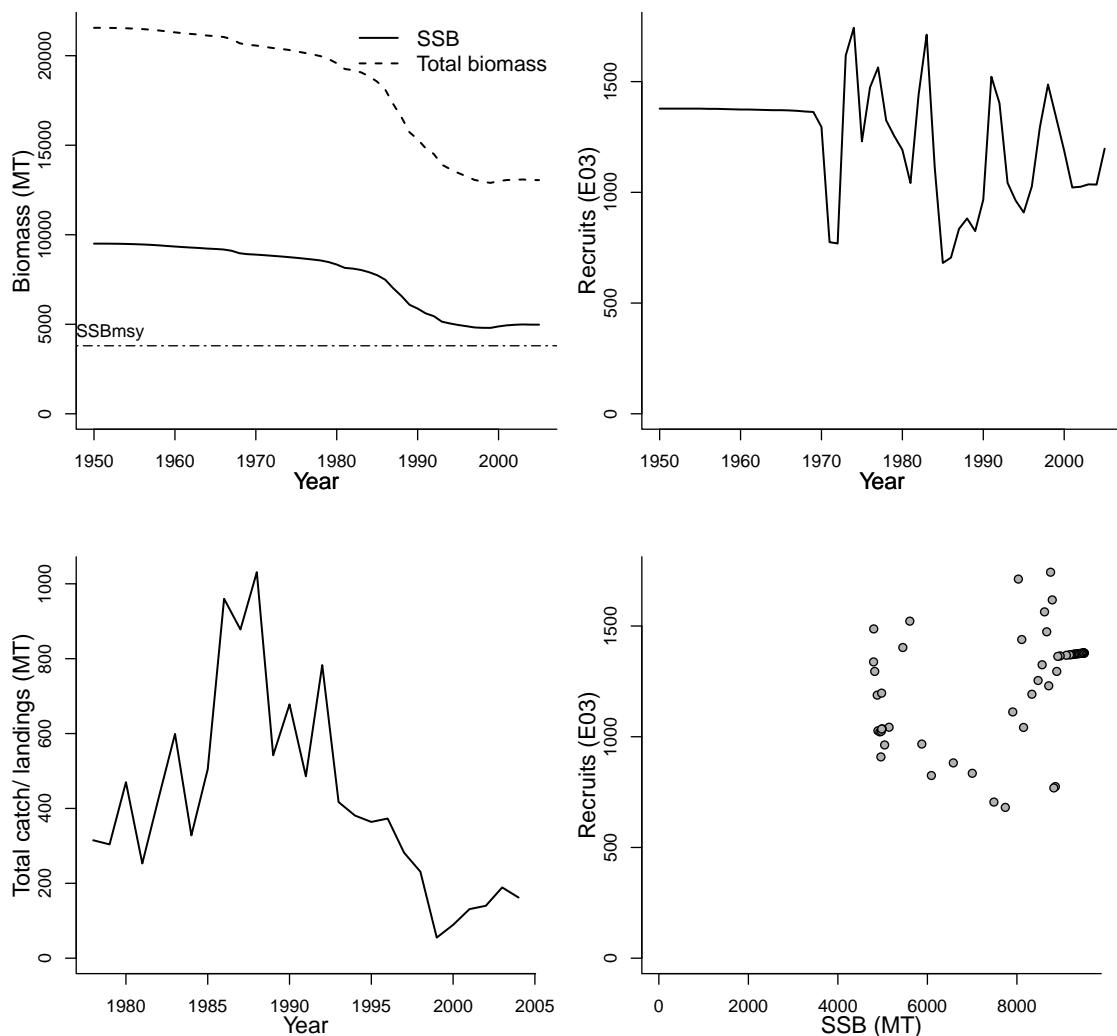
General assessment details.

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		
REC-AGE-yr	0	yr	Parameter	Value	Units
F-AGE-yr-yr	0+	yr-yr	SSBmsy-MT (SSB)	3799	MT
TB-AGE-yr	0+	yr	MSY-MT (TB)	223	MT
A50-yr	20	yr	Umsy-ratio (U)	0.029	ratio
SSB-AGE-yr			SSB0-MT (SSB)	9.503	MT
M			B0-MT	21558	MT
L50-cm			SSB ₂₀₀₅ /SSB _{msy}	1.310	

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.

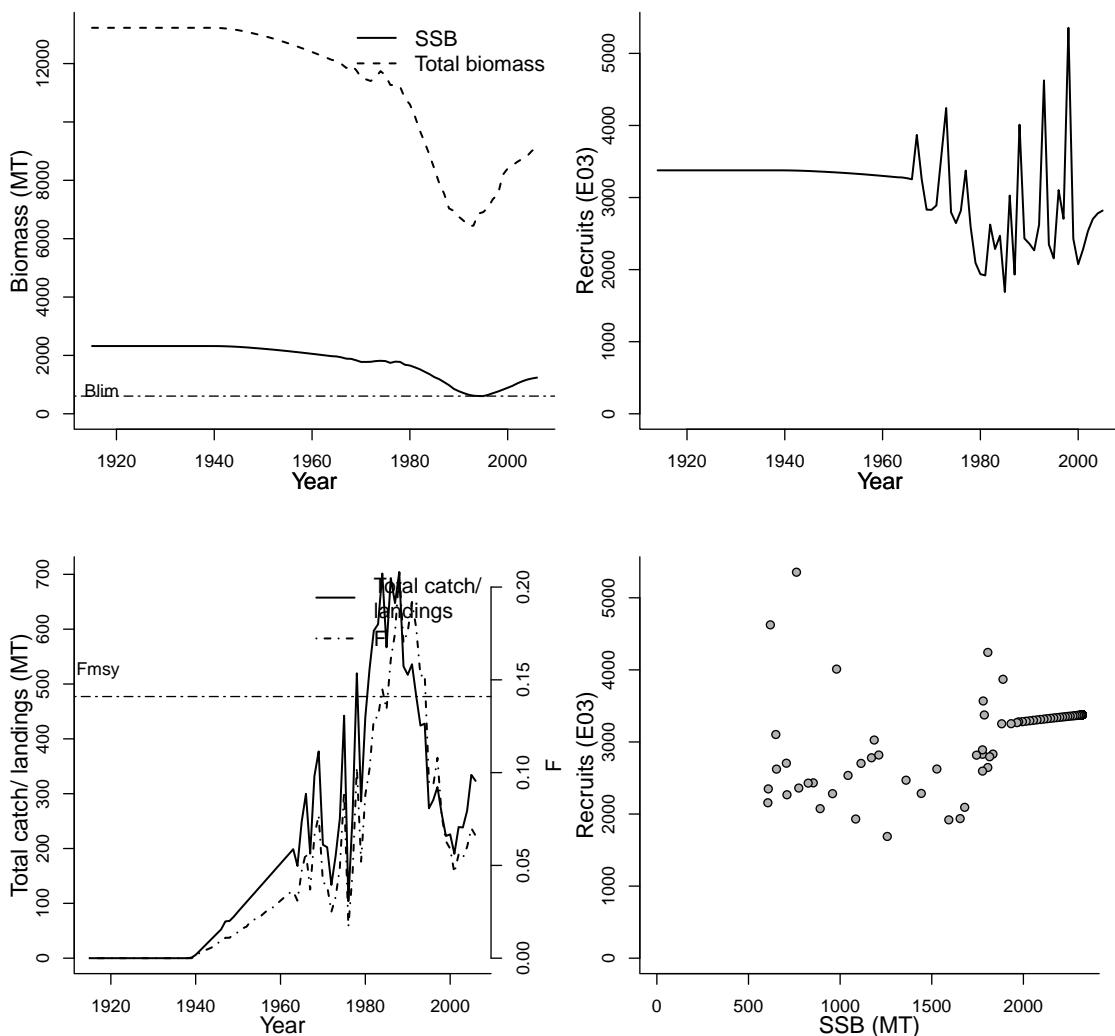
Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Wallace F.R.
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1914-2006
Document	NWFSC-BLACKROCKNPCOAST-2007-Black rockfish NOR WA.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-20
Date last loaded	2009-04-27
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
Parameter	Value	Units	Reference points	
			Parameter	Value
SSB-AGE-yr	10.31	yr	BH-h-dimless	0.6
REC-AGE-yr	1	yr	Blim-MT (SSB)	606
F-AGE-yr-yr	3+	yr-yr	SSBmsy-E06lar (SSB)	698.62
TB-AGE-yr	0+	yr	Fmsy-1/yr (F)	0.141
L50-cm	43.7	cm	SSB0-MT (SSB)	2321
M-1/yr	0.16	1/yr	R0-E03 (R)	3377
A50-yr	10.31	yr	SSBtarget-MT (SSB)	928.4
M			SSBmin-ratio (SSB)	0.25
			Ftarget-1/yr (F)	0.065
			SPRtarget-ratio (SPR)	0.4
			MSY-MT (TB)	700
			SSB_{2006}/B_{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

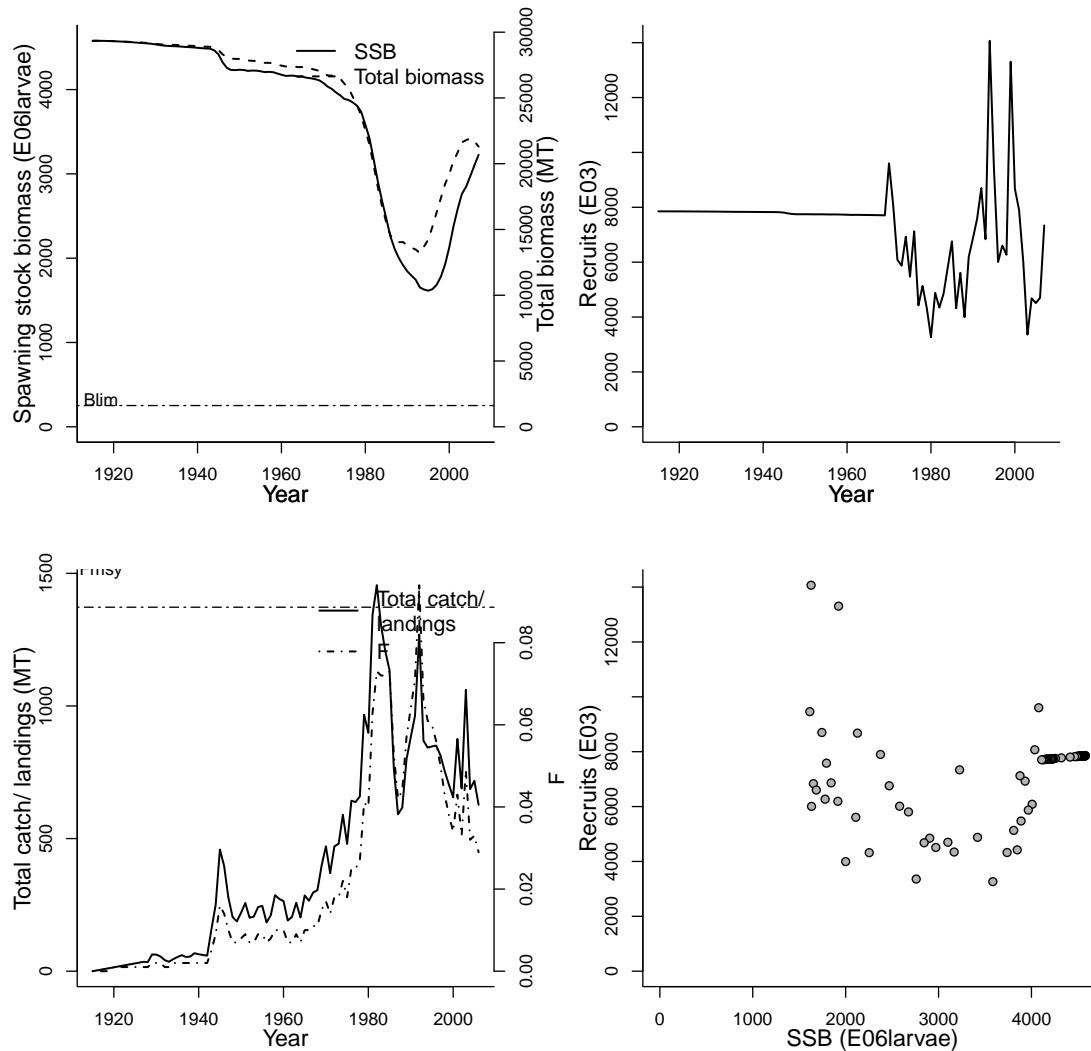
General assessment details.

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	2009-05-01
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
Parameter	Value	Units	Reference points	
			Parameter	Value
SSB-AGE-yr	7.1	yr	BH-h-dimless	0.6
REC-AGE-yr	0	yr	Blim-MT (SSB)	1614
F-AGE-yr-yr	2+	yr-yr	SSBmsy-E06lar (SSB)	1444.6
TB-AGE-yr	0+	yr	Fmsy-1/yr (F)	0.08864
L50-cm	39.53	cm	SSB0-E06lar (SSB)	4578
M-1/yr	0.16	1/yr	R0-E03 (R)	7852
A50-yr	7.1	yr	SSBtarget-MT (SSB)	1831.4
M			SSBmin-ratio (SSB)	0.25
			Ftarget-1/yr (F)	0.07227
			SPRtarget-ratio (SPR)	0.5
			MSY-MT (TB)	1064.6
			SSB_{2007}/B_{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

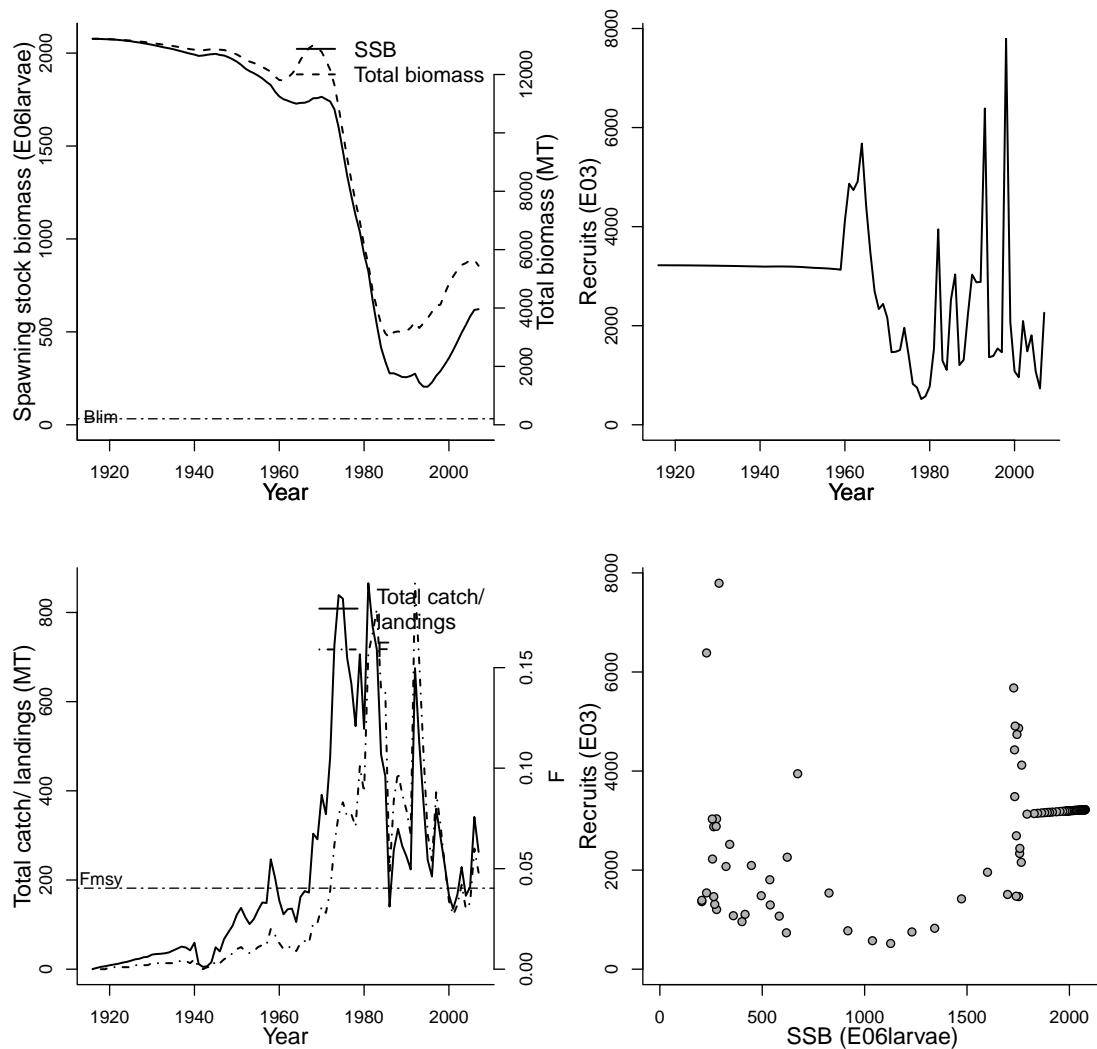
General assessment details.

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.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			3 - California Current	na	na
SSB-AGE-yr	6+	yr	Blim-MT (SSB)	205	MT
REC-AGE-yr	0	yr	SSBmsy-E06lar (SSB)	831	E06larvae
F-AGE-yr-yr	1+	yr-yr	Fmsy-1/yr (F)	0.0403	1/yr
TB-AGE-yr	1+	yr	SSB0-MT (SSB)	2077	MT
L50-cm	29	cm	R0-E03 (R)	3220	E03
M-1/yr	0.12	1/yr	SSBtarget-E06lar (SSB)	831	E06larvae
A50-yr	6	yr	SSBmin-ratio (SSB)	0.25	ratio
M			Ftarget-1/yr (F)	0.0403	1/yr
			SPRtarget-ratio (SPR)	0.5	ratio
			MSY-MT (TB)	275	MT
			B0-MT	13223	MT
			BH-h-dimless	0.58	dimless
			SSB ₂₀₀₇ /B _{lim}	3.034	
			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

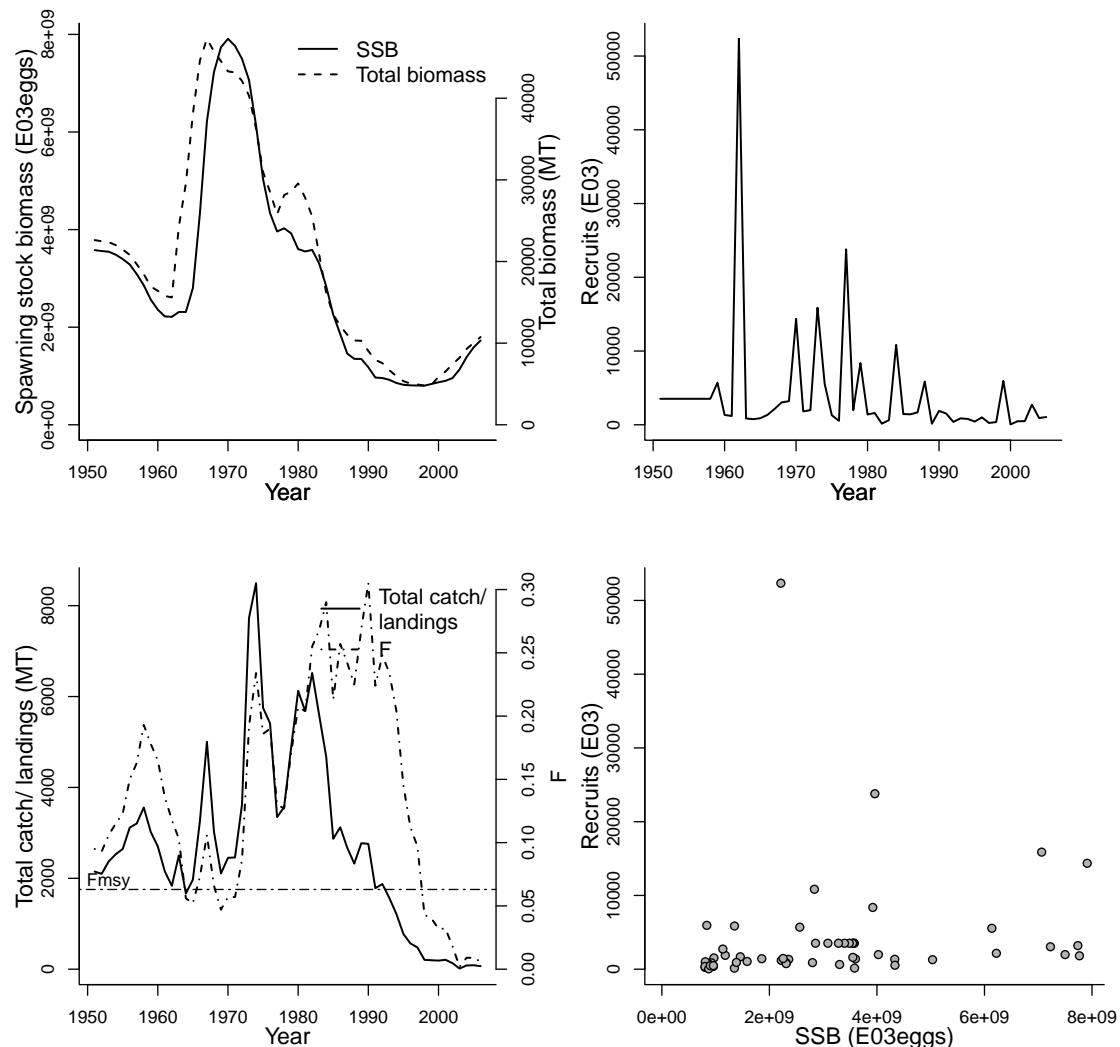
General assessment details.

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	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	
REC-AGE-yr	1	yr	Fmsy-1/yr (F)	0.063	1/yr	
F-AGE-yr-yr	1+	yr-yr	R0-E03 (R)	5449	E03	
TB-AGE-yr	1+	yr	SSBmin-ratio (SSB)	0.25	ratio	
M-1/yr	0.15	1/yr	Ftarget-1/yr (F)	0.063	1/yr	
SSB-AGE-yr			SPRtarget-ratio (SPR)	0.5	ratio	
M			MSY-MT (TB)	1974	MT	
A50-yr			SSB0-E03eggs	0	E03eggs	
L50-cm			SSBtarget-E03eggs	0	E03eggs	
			Blim-E03eggs	0	E03eggs	
			BH-h-dimless	0.44	dimless	
			SSBmsy-E03eggs	0	E03eggs	
			F_{2006}/F_{msy}	0.095		

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

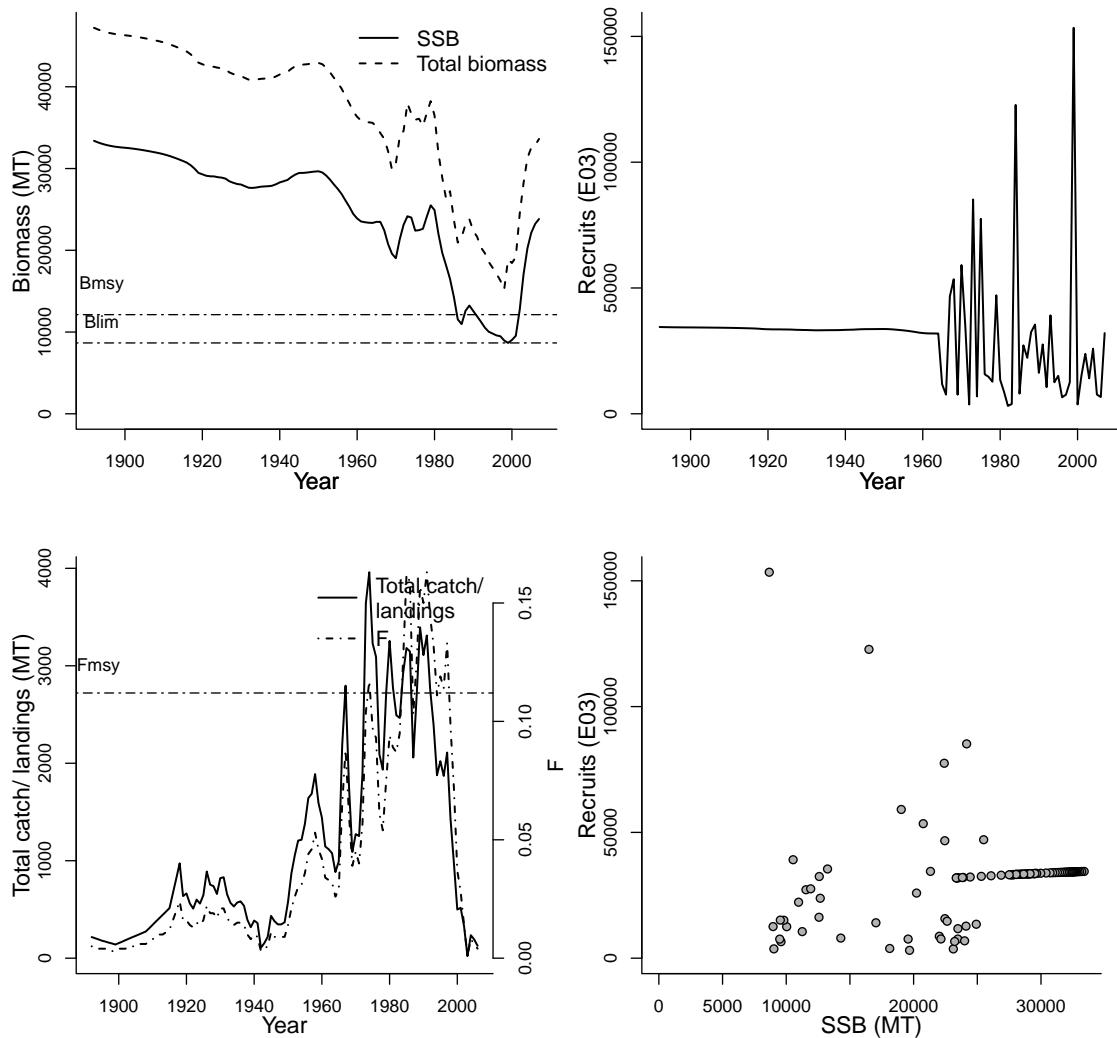
General assessment details.

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	
Parameter	Value	Units	Reference points			Units
			Parameter	Value	Units	
REC-AGE-yr	0	yr	Blim-MT (SSB)	8666	MT	
F-AGE-yr-yr	1-80	yr-yr	Bmsy-MT (TB)	12126	MT	
TB-AGE-yr	0+	yr	Fmsy-1/yr (F)	0.112	1/yr	
M-1/yr	0.16	1/yr	SSB0-MT (SSB)	33390	MT	
SSB-AGE-yr			R0-E03 (R)	34490	E03	
M			SSBtarget-MT (SSB)	21034	MT	
A50-yr			SSBmin-ratio (SSB)	0.25	ratio	
L50-cm			Ftarget-1/yr (F)	0.102	1/yr	
			SPRtarget-ratio (SPR)	0.4	ratio	
			MSY-MT (TB)	2164	MT	
			BH-h-dimless	0.573	dimless	
			SSB_{2007}/B_{lim}	2.749		
			TB_{2007}/B_{msy}	2.772		
			F_{2006}/F_{msy}	0.036		

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1892	1892	1892	1892
Maximum year	2007	2007	2006	2007
Time series minimum	8666	3130	0.001	15209
Time series maximum	33391	153415	0.163	47214
Units	MT	E03	1/yr	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

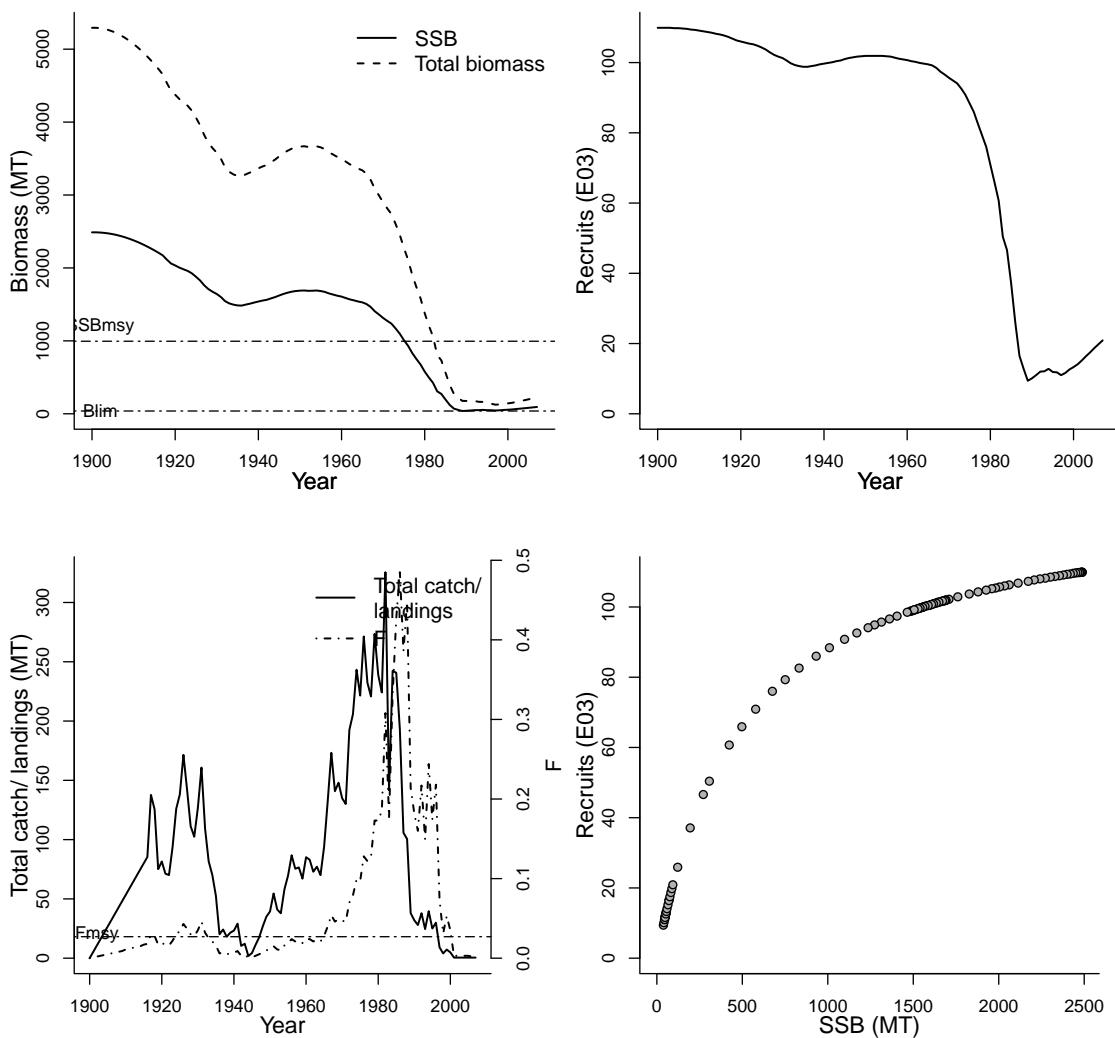
General assessment details.

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.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			3 - California Current	na	na
				Reference points	
				Parameter	Value
				Blim-MT (SSB)	38
				SSBmsy-MT (SSB)	995
				Fmsy-1/yr (F)	0.027
				SSB0-MT (SSB)	2488
				R0-E03 (R)	109.9
				SSBtarget-MT (SSB)	995
				SSBmin-ratio (SSB)	0.25
				Ftarget-1/yr (F)	0.027
				SPRtarget-ratio (SPR)	0.4
				MORATOR-yr-yr	2001-present
				B0-MT	5291
				BH-h-dimless	0.6
				SSB_{2007}/B_{lim}	2.461
				F_{2007}/F_{msy}	0.074
				SSB_{2007}/SSB_{msy}	0.094

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1900	1900	1900	1900
Maximum year	2007	2007	2007	2007
Time series minimum	38.3	9.4	0	124.6
Time series maximum	2488.1	109.9	0.485	5293.1
Units	MT	E03	1/yr	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

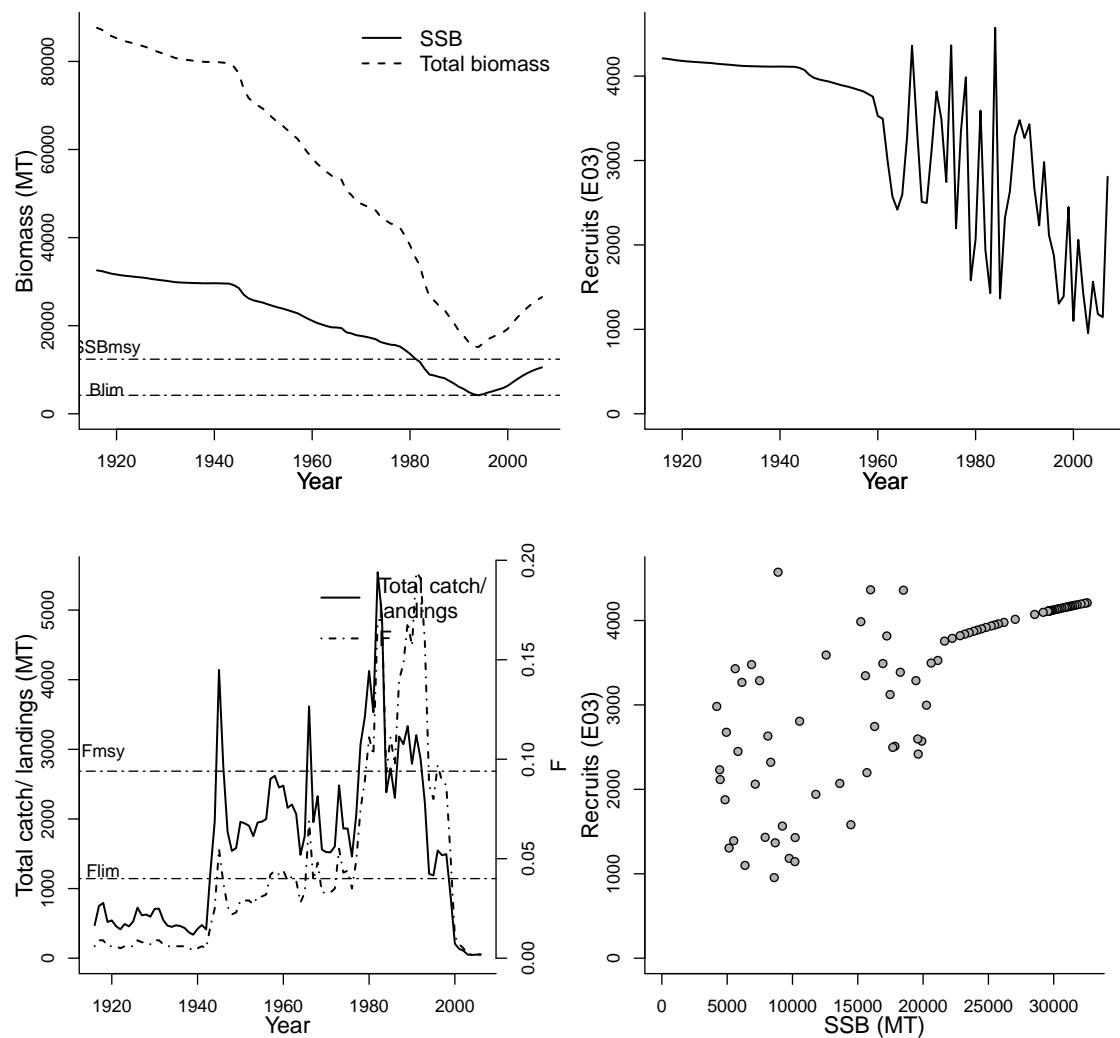
General assessment details.

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	
Parameter	Value	Units	Reference points			Units
			Parameter	Value	Units	
REC-AGE-yr	0	yr	Blim-MT (SSB)	4202	MT	
F-AGE-yr-yr	5-35	yr-yr	SSBmsy-MT (SSB)	12394	MT	
TB-AGE-yr	0	yr	Flim-1/yr (F)	0.04	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	
			SSB_{2007}/B_{lim}	2.509		
			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 darkblotched rockfish (*Sebastodes crameri*)

Assessment ID:NWFSC-DKROCKCOAST-1928-2007-BRANCH
 Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/43>

Area ID: USA-NMFS-PCOAST

General assessment details.

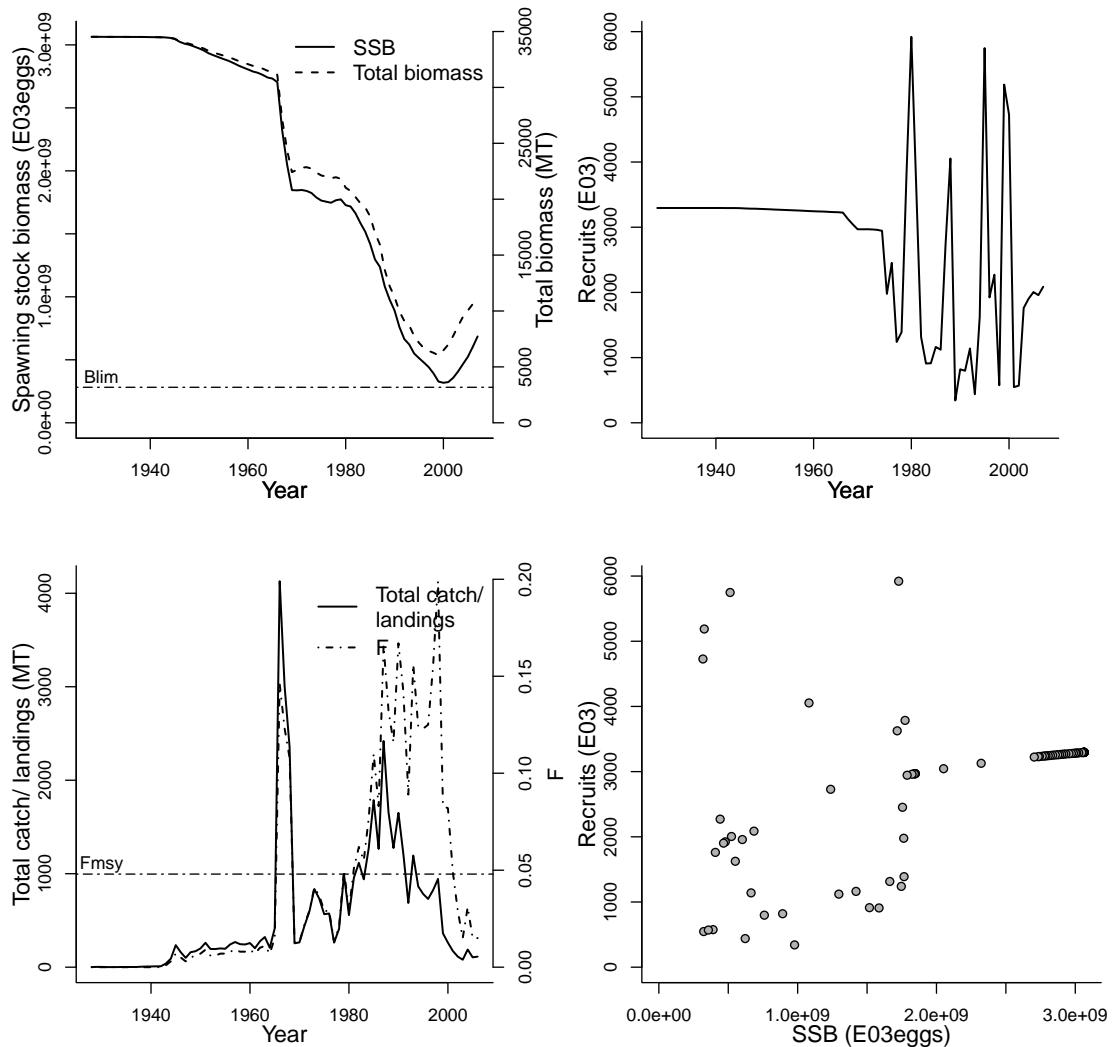
Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Hamel OS
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1928-2007
Document	NWFSC-DKROCKCOAST-2008-Darkblotched rockfish.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2009-04-27
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-AGE-yr	7.7	yr	BH-h-dimless	0.6
REC-AGE-yr	0	yr	Blim-MT (SSB)	3176
F-AGE-yr-yr	1+	yr-yr	Fmsy-1/yr (F)	0.048
TB-AGE-yr	0+	yr	R0-E03 (R)	3295
L50-cm	34.5	cm	SSBmin-ratio (SSB)	0.25
M-1/yr	0.07	1/yr	Ftarget-1/yr (F)	0.041
A50-yr	7.7	yr	SPRtarget-ratio (SPR)	0.5
M			MSY-MT (TB)	644
			SSBmsy-E03eggs	0
			SSB0-E03eggs	0
			SSBtarget-E03eggs	0
			SSB_{2007}/B_{lim}	215774.559
			F_{2006}/F_{msy}	0.312

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

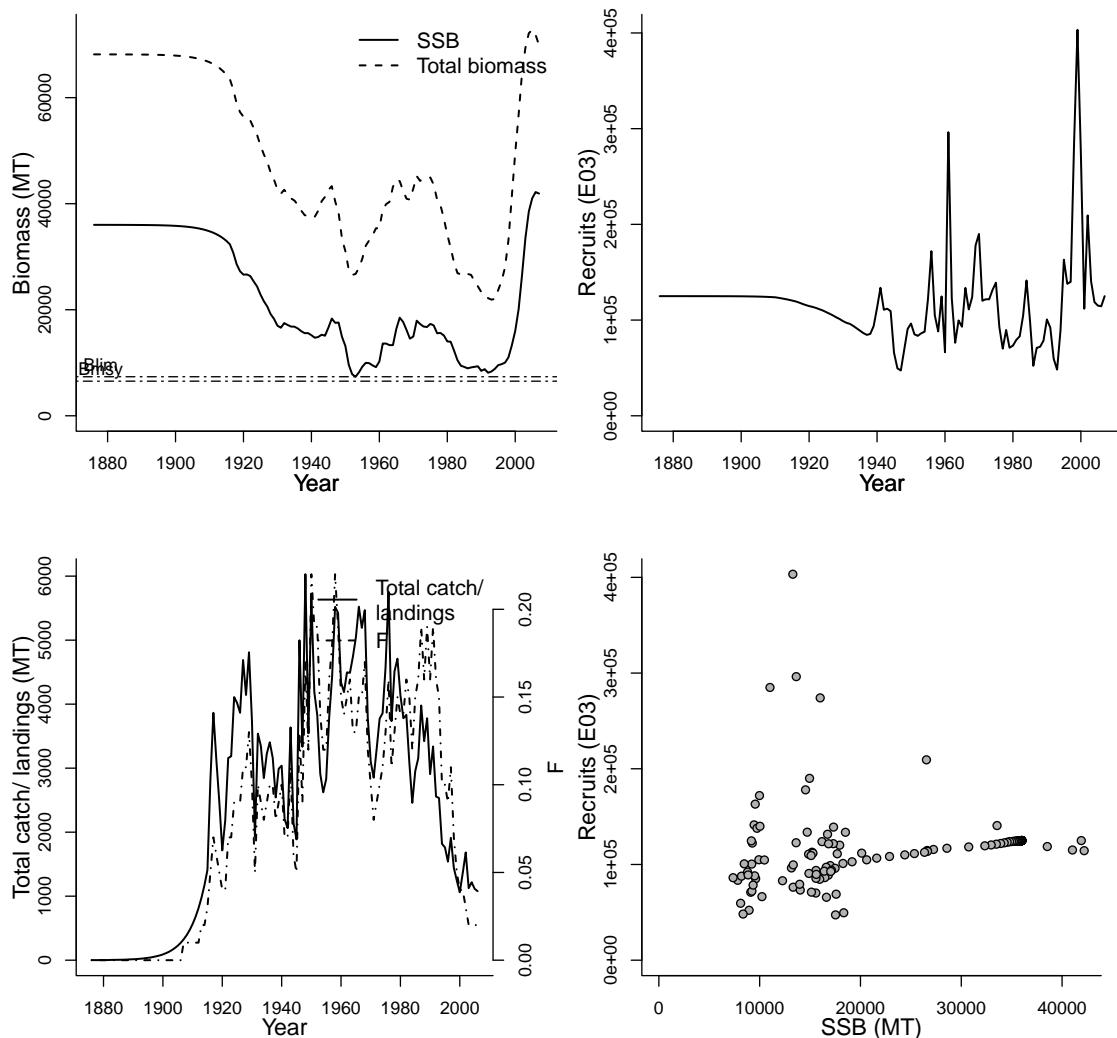
General assessment details.

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	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
Parameter	Value	Units	Reference points	
			Parameter	Value
SSB-AGE-yr	3+	yr	Blim-MT (SSB)	7364
REC-AGE-yr	0	yr	Bmsy-MT (TB)	6526
F-AGE-yr-yr	3-20	yr-yr	Fmsy-1/yr (F)	0.27
L50-cm	23.3	cm	SSB0-MT (SSB)	36012
TB-AGE-yr			R0-E03 (R)	124990
M			SSBtarget-MT (SSB)	14405
A50-yr			SSBmin-ratio (SSB)	0.25
			Ftarget-1/yr (F)	0.13
			SPRtarget-ratio (SPR)	0.49
			MSY-MT (TB)	4252
			BH-h-dimless	0.798
			SSB_{2007}/B_{lim}	5.691
			TB_{2007}/B_{msy}	10.708
			F_{2006}/F_{msy}	0.074

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1876	1876	1876	1876	1876
Maximum year	2007	2007	2006	2007	2006
Time series minimum	7364	47349	0	21903	1
Time series maximum	42193	403289	0.22	72795	6030
Units	MT	E03	1/T	MT	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

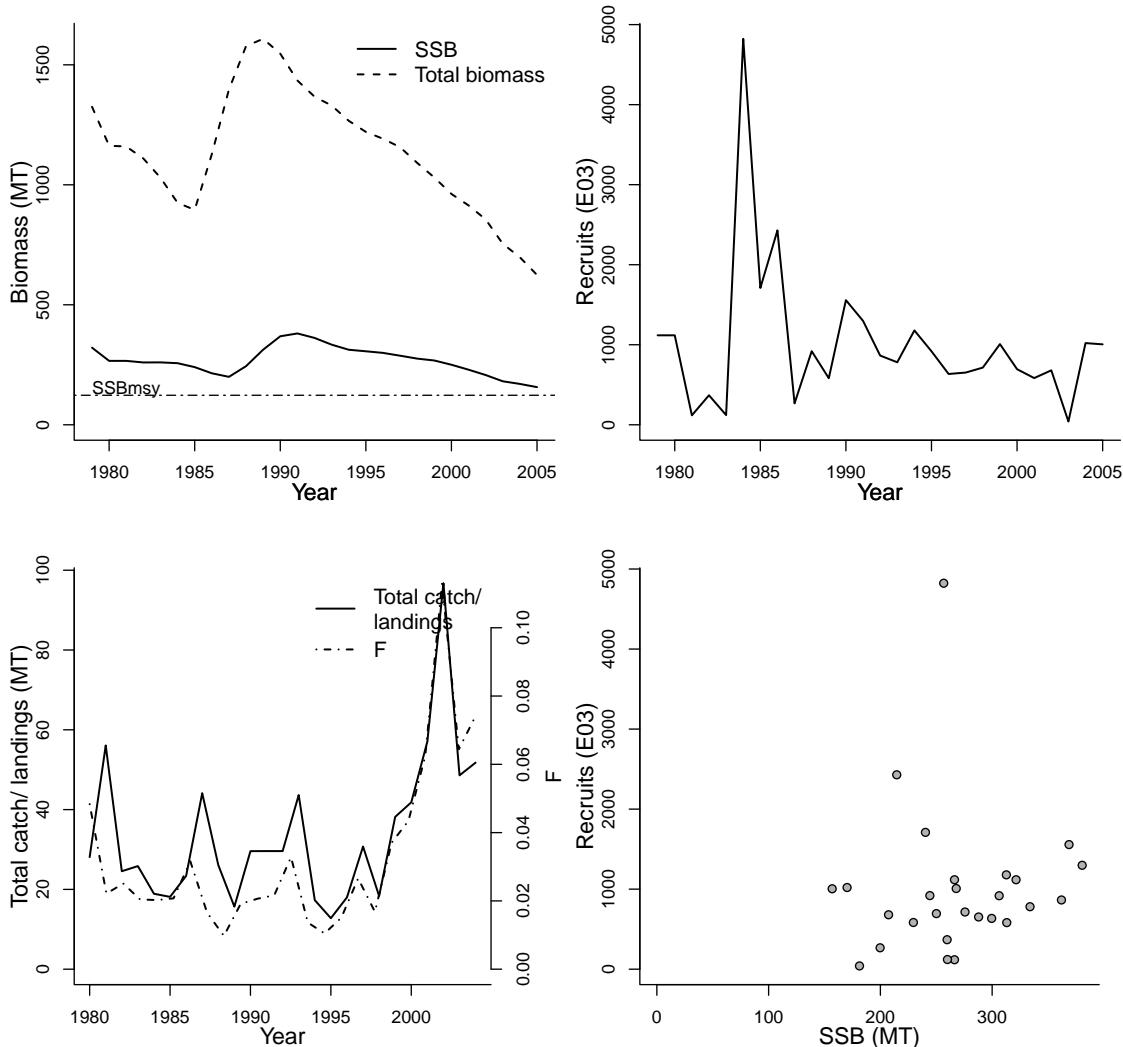
General assessment details.

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
REC-AGE-yr	0	yr	NATMORT-1/yr (M)	0.26	1/yr
F-AGE-yr-yr	0+	yr-yr	SSBmsy-MT (SSB)	123	MT
TB-AGE-yr	0+	yr	MSY-MT (TB)	82	MT
M-1/yr	0.26	1/yr	Umsy-ratio (U)	0.125	ratio
NATMORT-1/yr	0.26	1/yr	SSB0-MT (SSB)	321	MT
M			B0-MT	1295	MT
A50-yr			SSB ₂₀₀₅ /SSB _{msy}	1.275	
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

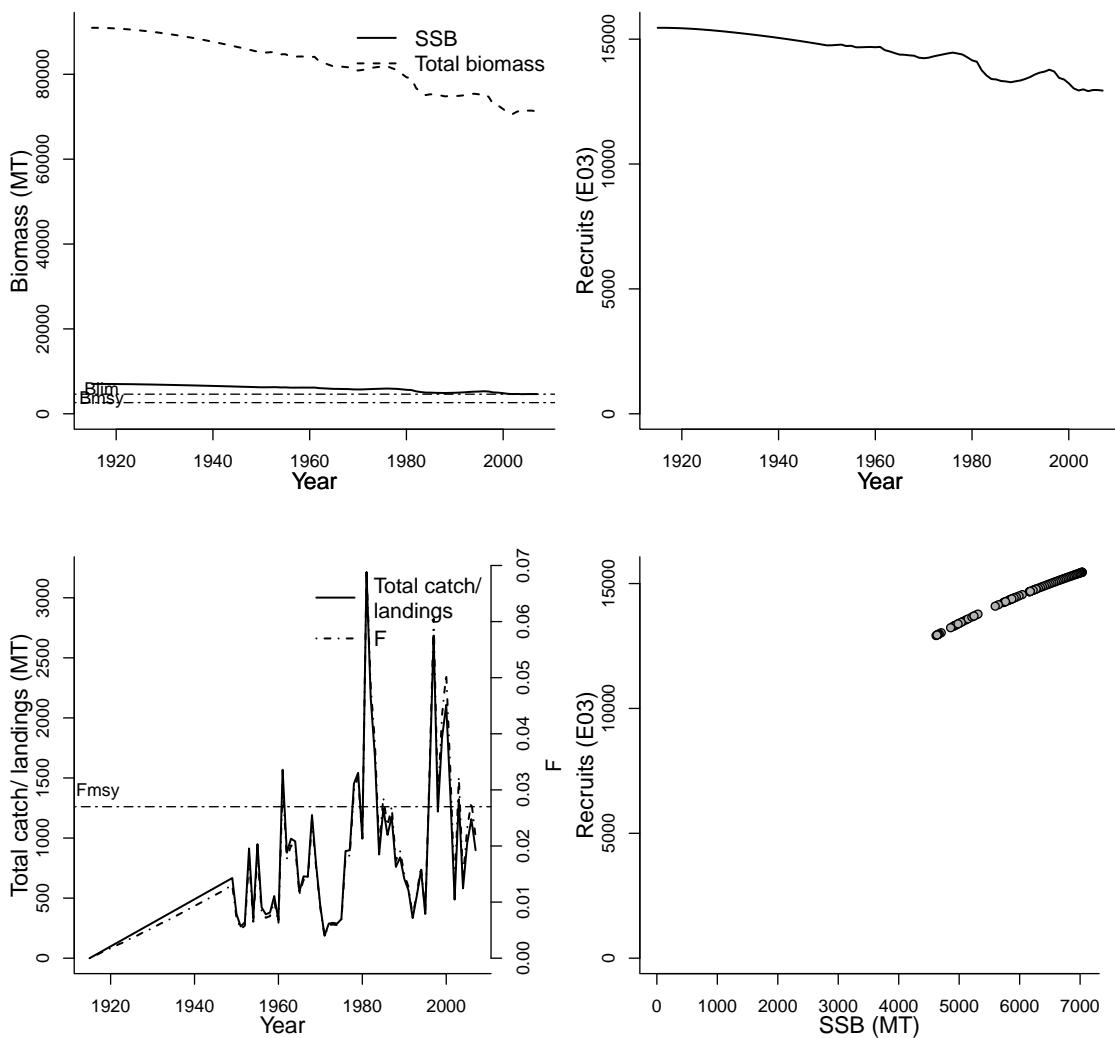
General assessment details.

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	Units	
REC-AGE-yr	0	yr	Blim-MT (SSB)	4617	MT	
F-AGE-yr-yr	2+	yr-yr	Bmsy-MT (TB)	2626	MT	
TB-AGE-yr	0+	yr	Fmsy-1/yr (F)	0.027	1/yr	
L50-cm	120	cm	SSB0-MT (SSB)	7034	MT	
M-1/yr	0.2	1/yr	R0-E03 (R)	15454	E03	
SSB-AGE-yr			SSBtarget-MT (SSB)	2814	MT	
M			SSBmin-ratio (SSB)	0.25	ratio	
A50-yr			Ftarget-1/yr (F)	0.0257	1/yr	
			SPRtarget-ratio (SPR)	0.4	ratio	
			MSY-MT (TB)	1268	MT	
			BH-h-dimless	0.4	dimless	
			SSB_{2007}/B_{lim}	1.004		
			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

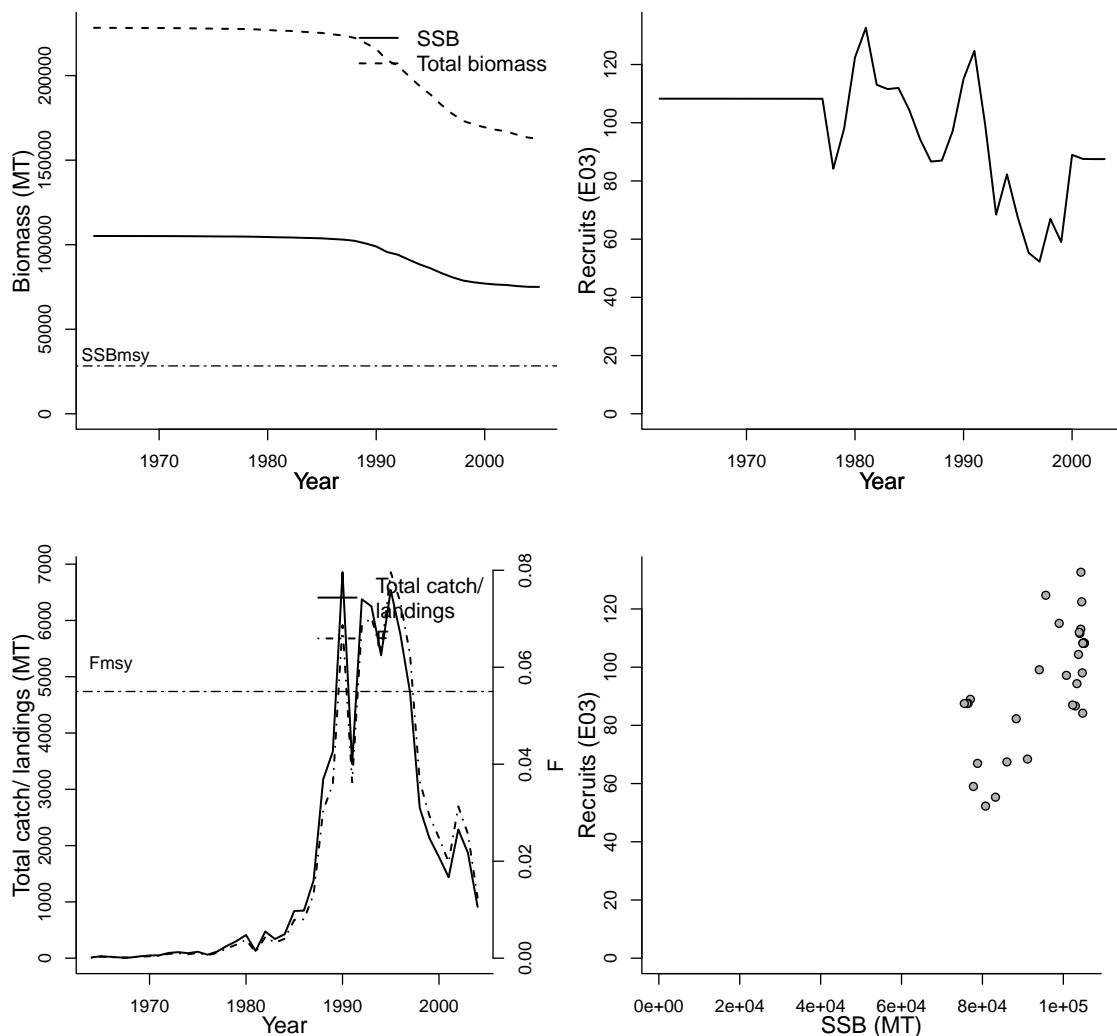
General assessment details.

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	
			Reference points		
Parameter	Value	Units	Parameter	Value	Units
REC-AGE-yr	2	yr	Fmsy-1/yr (F)	0.055	1/yr
F-AGE-yr-yr	0+	yr-yr	SSBmsy-MT (SSB)	28305	MT
TB-AGE-yr	0+	yr	MSY-MT (TB)	3687	MT
SSB-AGE-yr			SSB0-MT (SSB)	105157	MT
M			B0-MT	227972	MT
A50-yr			BH-h-dimless	0.75	dimless
L50-cm			F_{2004}/F_{msy}	0.227	
			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>

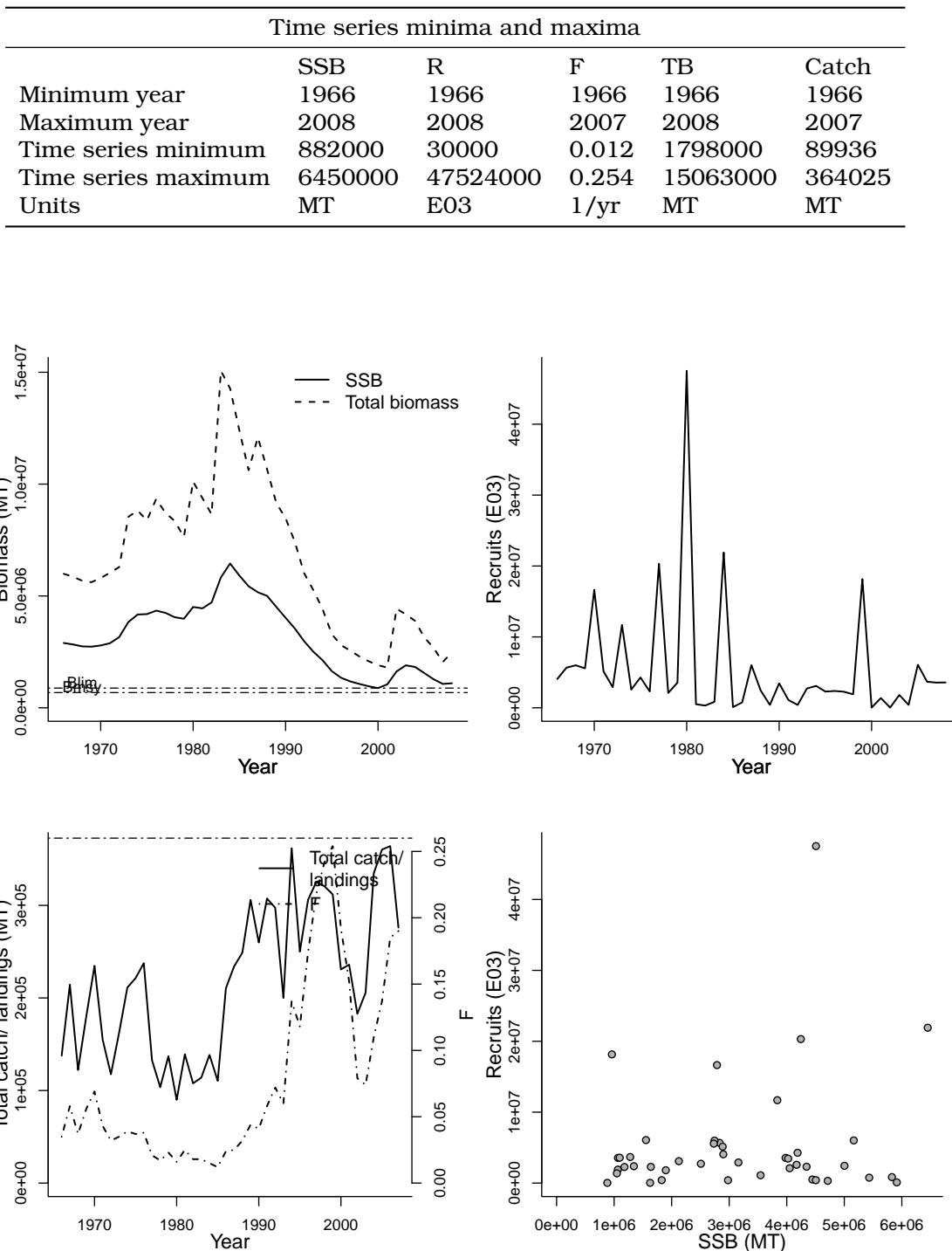
Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Helser TE
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	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		
Parameter	Value	Units	Reference points			Units
			Parameter	Value	Units	
REC-AGE-yr	0	yr	Blim-MT (SSB)	882000	MT	
F-AGE-yr-yr	3+	yr-yr	Bmsy-MT (TB)	680000	MT	
TB-AGE-yr	3+	yr	Fmsy-1/yr (F)	0.26	1/yr	
L50-cm	36	cm	SSB0-MT (SSB)	2890000	MT	
M-1/yr	0.23	1/yr	R0-E09 (R)	4.06	E09	
SSB-AGE-yr			SSBtarget-MT (SSB)	1170000	MT	
M			SSBmin-ratio (SSB)	0.25	ratio	
A50-yr			Ftarget-1/yr (F)	0.16	1/yr	
			SPRtarget-ratio (SPR)	0.4	ratio	
			MSY-MT (TB)	476710	MT	
			BH-h-dimless	0.744	dimless	
			SSB_{2008}/B_{lim}	1.244		
			TB_{2008}/B_{msy}	3.662		
			F_{2007}/F_{msy}	0.731		



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

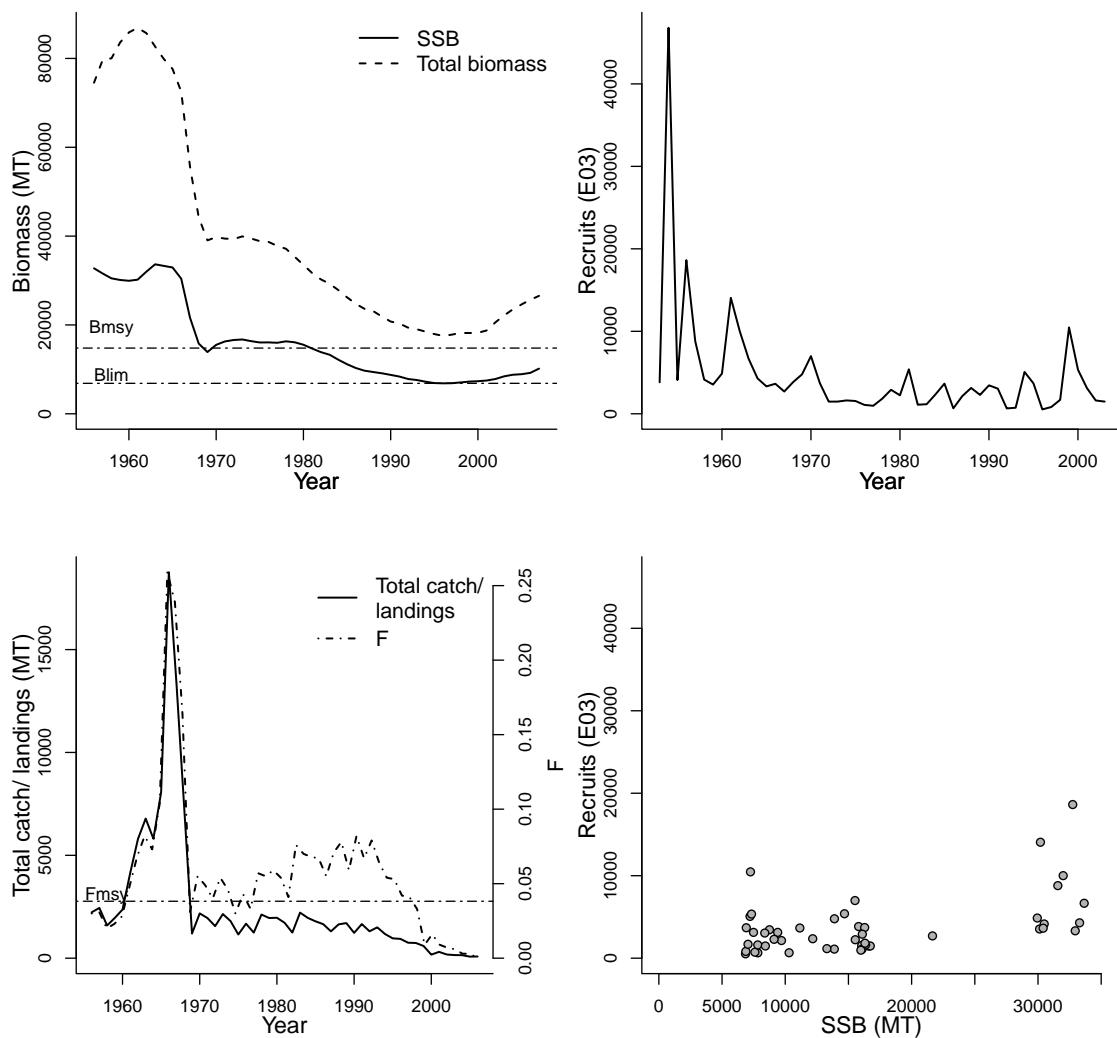
General assessment details.

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	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	
REC-AGE-yr	3	yr	Blim-MT (SSB)	6856	MT	
F-AGE-yr-yr	3+	yr-yr	Bmsy-MT (TB)	14793	MT	
TB-AGE-yr	3+	yr	Fmsy-1/yr (F)	0.0382	1/yr	
M-1/yr	0.053	1/yr	SSB0-MT (SSB)	36983	MT	
SSB-AGE-yr			R0-E06 (R)	4.97	E06	
M			SSBtarget-MT (SSB)	14793	MT	
A50-yr			SSBmin-ratio (SSB)	0.25	ratio	
L50-cm			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}/B_{lim}	1.483		
			TB_{2007}/B_{msy}	1.794		

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-PSOLENPOAST-1910-2005-STANTON
Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/342>

Area ID: USA-NMFS-NPCOAST

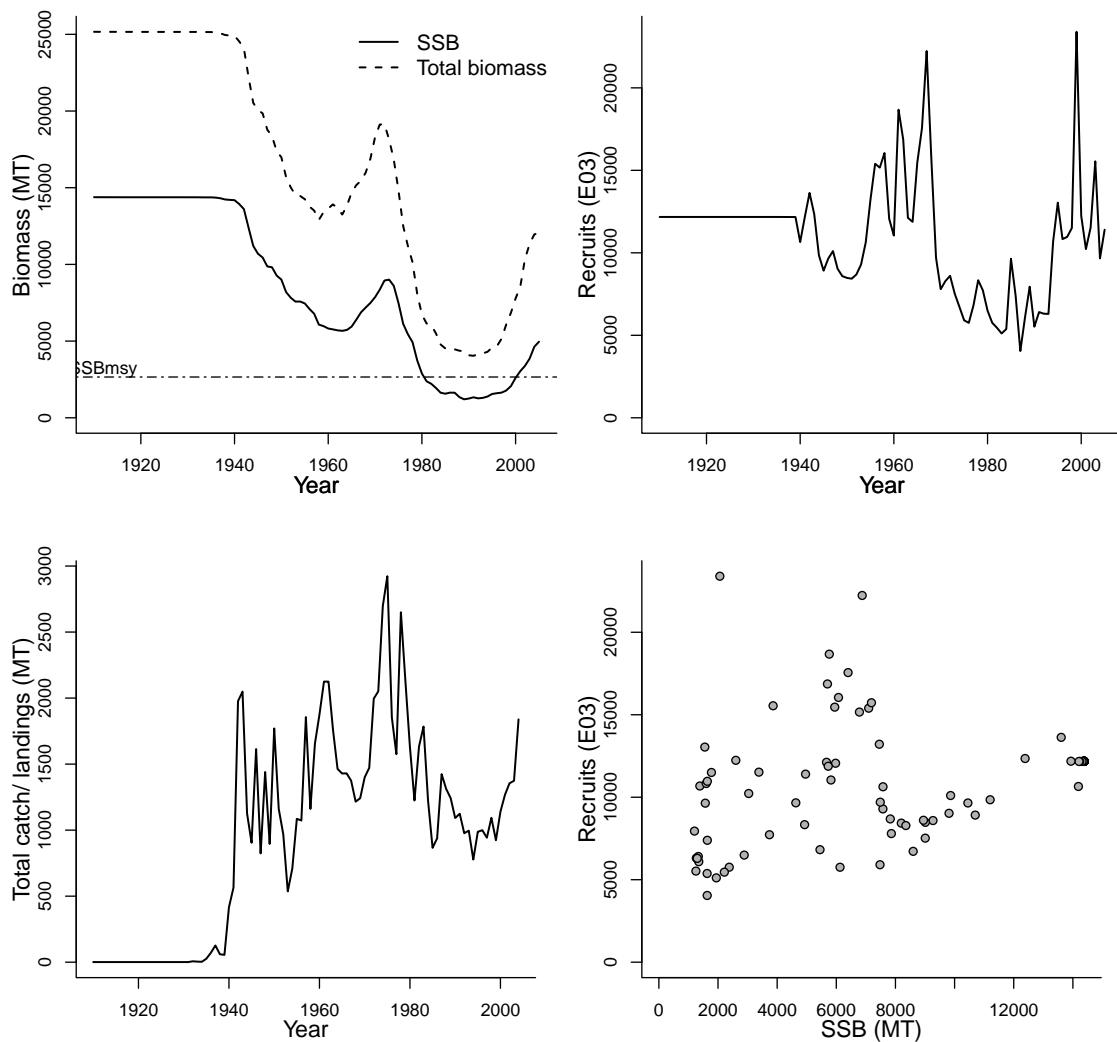
General assessment details.

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	2004_SAFE_WCpetralesole.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-20
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			Parameter	Value	Units
SSB-AGE-yr	3+	yr				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_{2005}/SSB_{msy}	1.866	
A50-yr								
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1910	1910		1910
Maximum year	2005	2005		2005
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

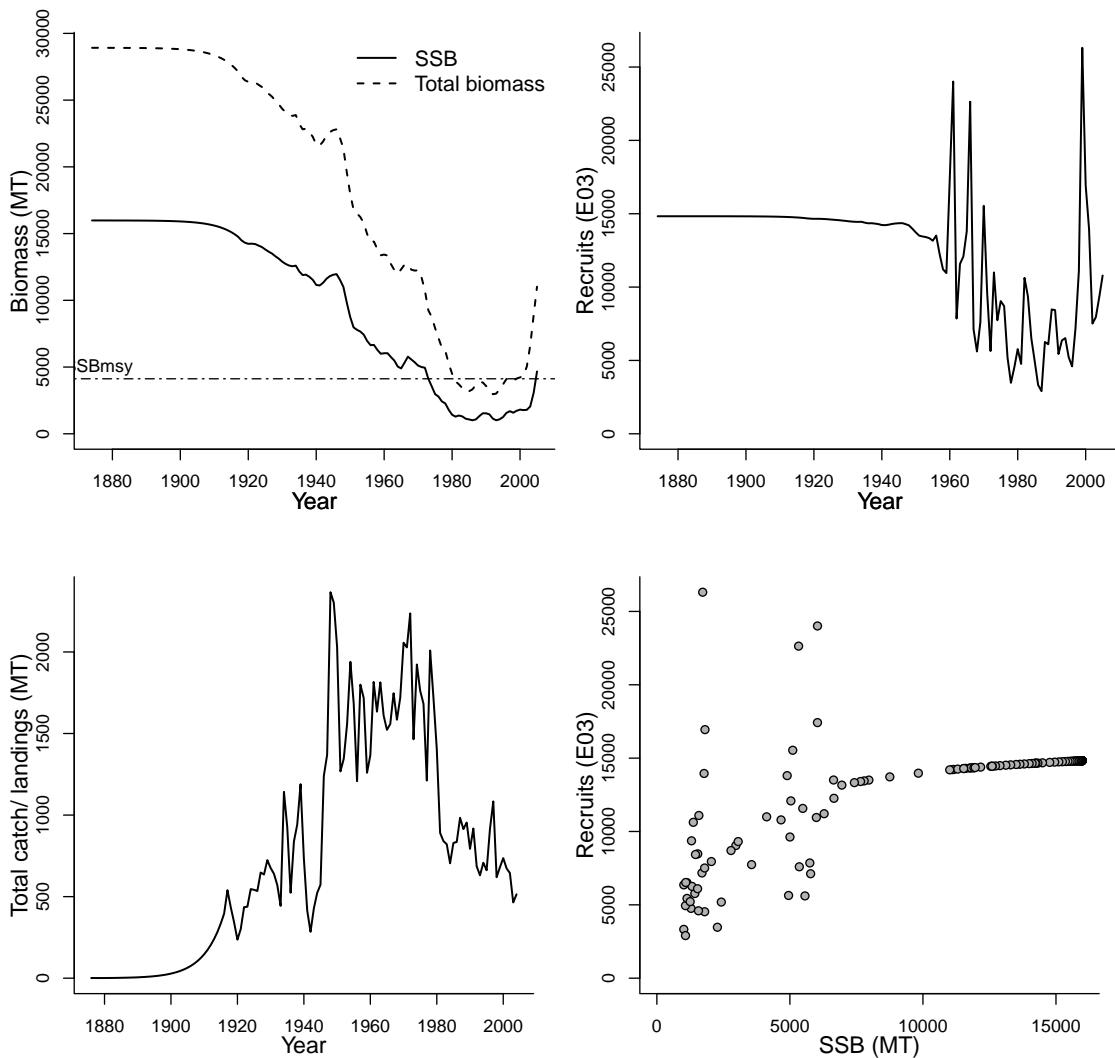
General assessment details.

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	2004-SAFE-WCpetralesole.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-20
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-AGE-yr	3+	yr	Parameter			Value		Units
REC-AGE-yr	0	yr	NATMORT-1/yr (M)			0.2		1/yr
F-AGE-yr-yr	3+	yr-yr	SSBmsy-MT (SSB)			4121		MT
TB-AGE-yr	3+	yr	MSY-MT (TB)			1404		MT
M-1/yr	0.2	1/yr	Umsy-ratio (U)			0.14		ratio
NATMORT-1/yr	0.2	1/yr	SSB0-MT (SSB)			15985		MT
M			B0-MT			28920		MT
A50-yr			SSB_{2005}/SSB_{msy}			1.132		
L50-cm								

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1874	1874		1874
Maximum year	2005	2005		2005
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

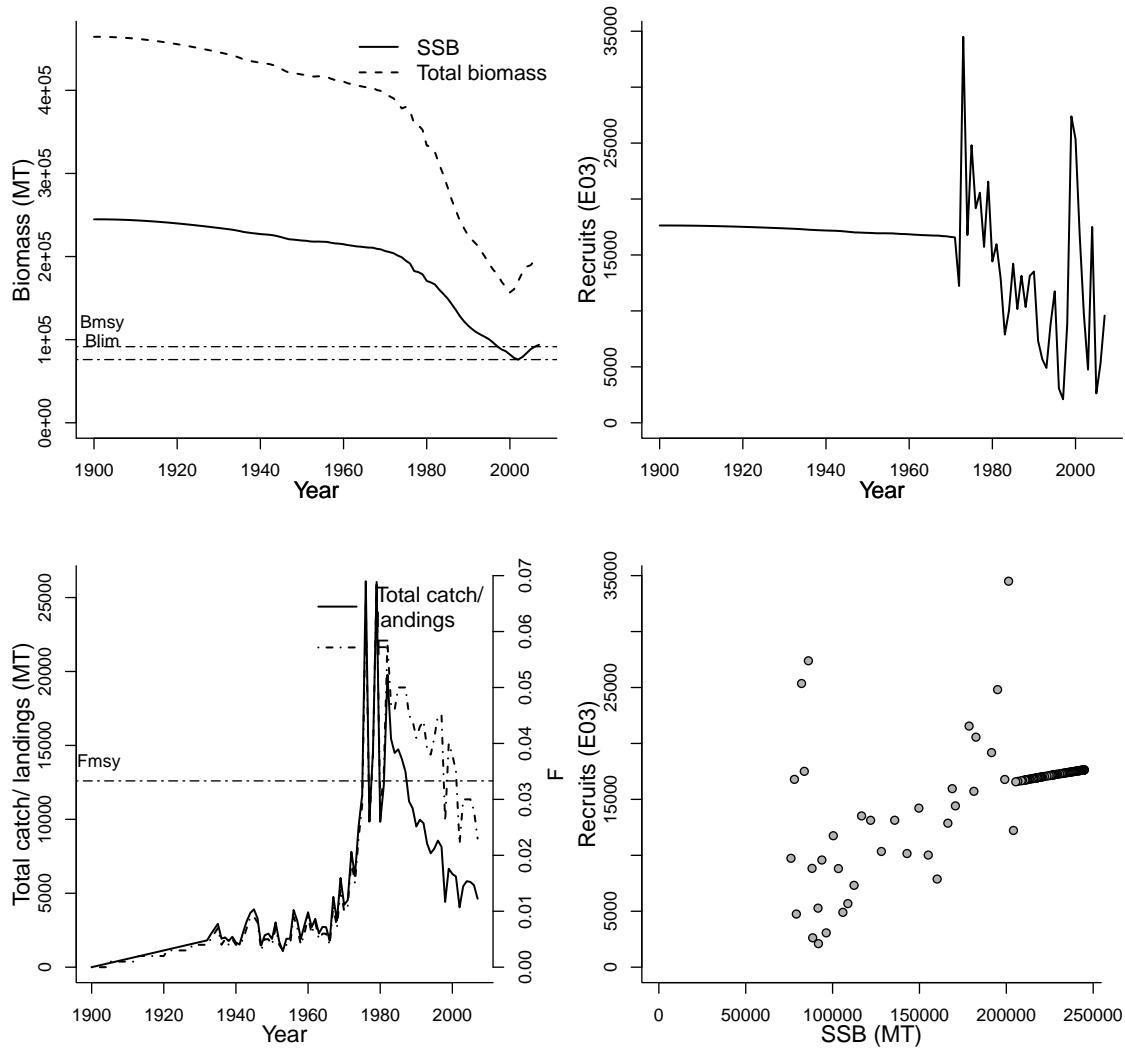
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Schirripa MJ
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	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	5.5	yr	Blim-MT (SSB)	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)	244688	MT	
L50-cm	55.3	cm	R0-E03 (R)	17656	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	
			BH-h-dimless	0.48	dimless	
			SSB_{2007}/B_{lim}	1.234		
			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

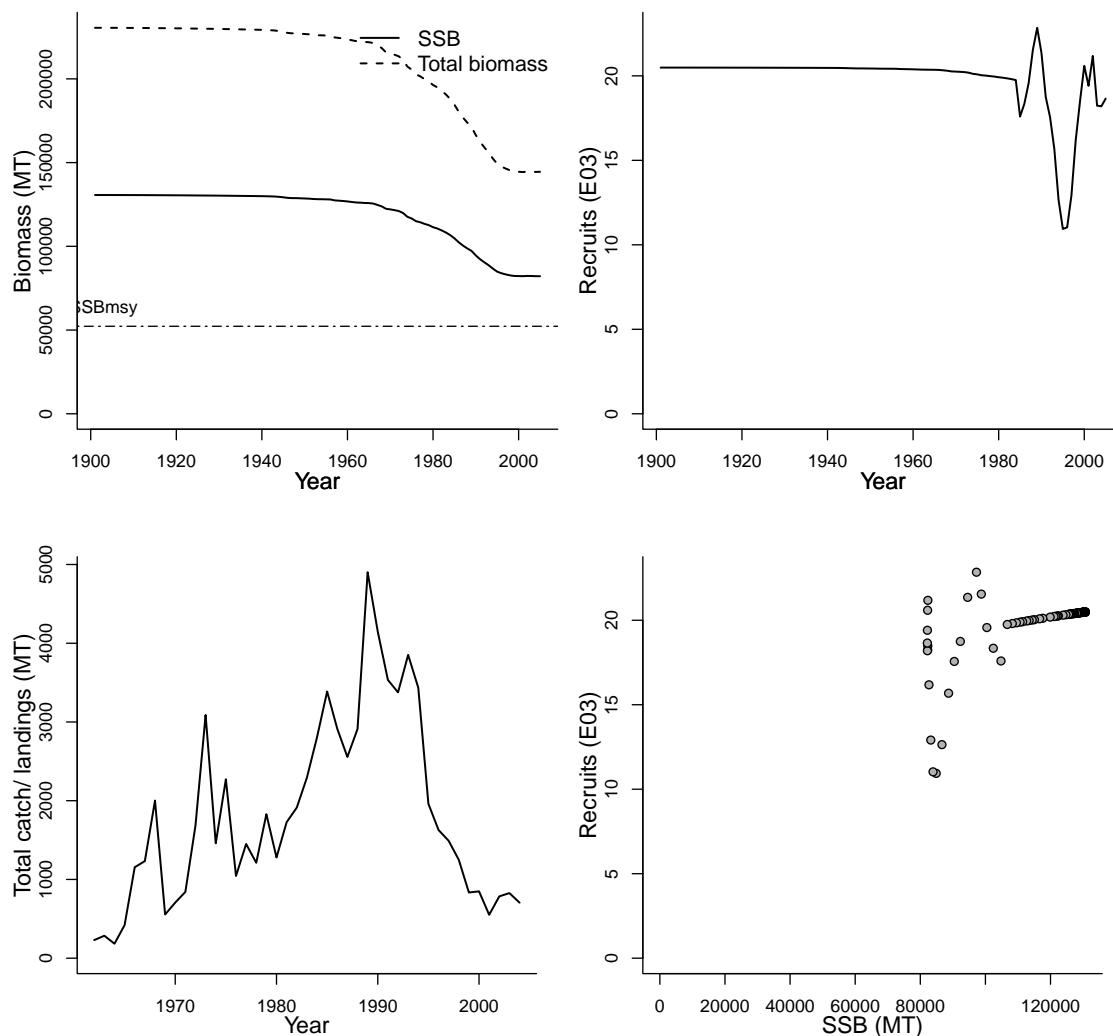
General assessment details.

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	Parameter	Reference points	Value	Units
SSB-AGE-yr	9+	yr	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 ₂₀₀₅ /SSB _{msy}	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

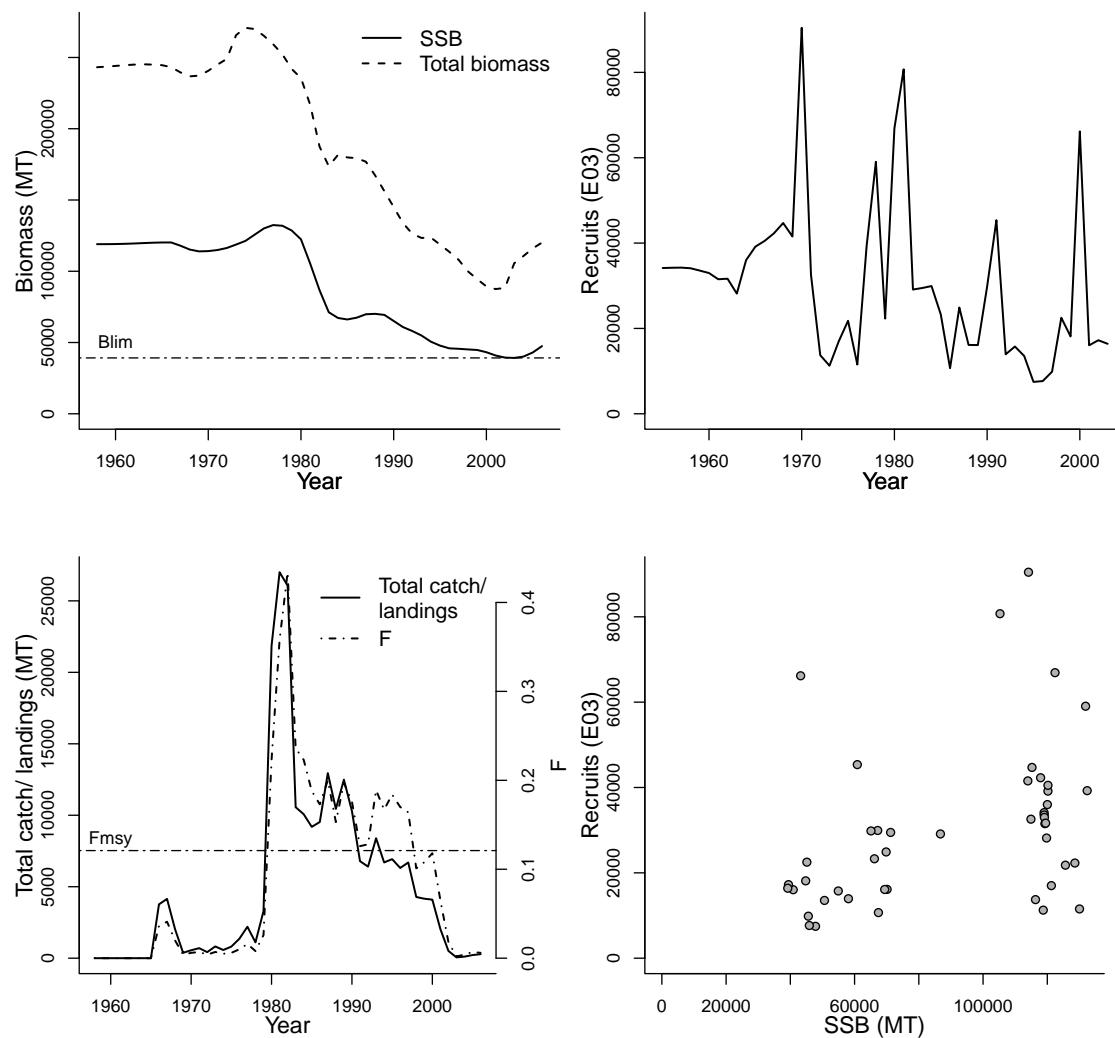
General assessment details.

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	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
RElim-MT (SSB)	39194	MT		
SSBmsy-E06eggs (SSB)	20298	E06eggs		
Fmsy-1/yr (F)	0.121	1/yr		
SSB0-E06eggs (SSB)	50746	E06eggs		
SSBtarget-E06eggs (SSB)	20298	E06eggs		
SSBmin-ratio (SSB)	0.25	ratio		
Ftarget-1/yr (F)	0.121	1/yr		
SPRtarget-ratio (SPR)	0.4	ratio		
BH-h-dimless	0.29	dimless		
SSB ₂₀₀₆ /B _{lim}	1.211			
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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/65>

Area ID: USA-NMFS-PCOAST

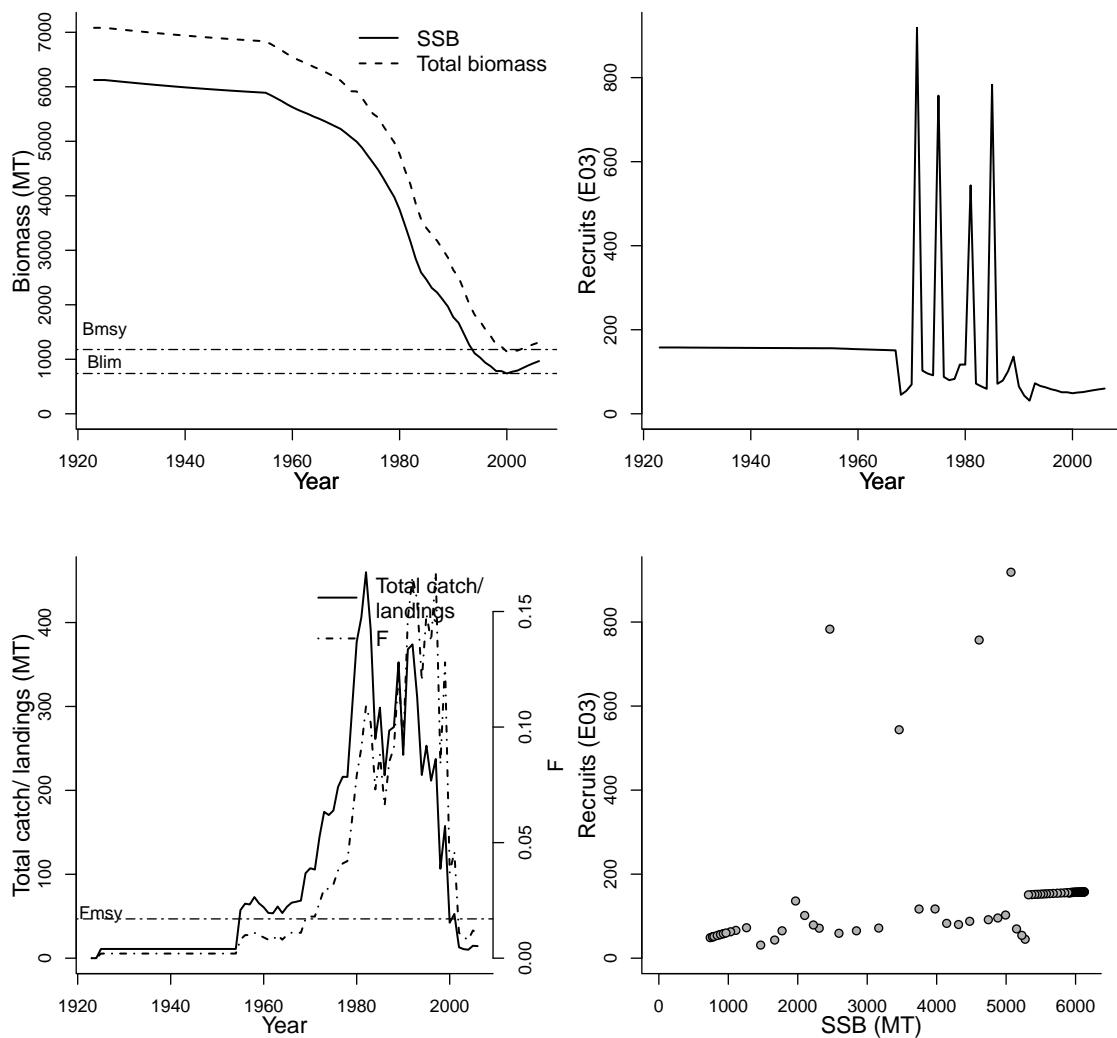
General assessment details.

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	
Blim-MT (SSB)	739	MT				
Bmsy-MT (TB)	1179	MT				
Fmsy-1/yr (F)	0.017	1/yr				
SSB0-MT (SSB)	3062	MT				
R0-E03 (R)	157.8	E03				
SSBtarget-MT (SSB)	1225	MT				
SSBmin-ratio (SSB)	0.25	ratio				
Ftarget-1/yr (F)	0.018	1/yr				
SPRtarget-ratio (SPR)	0.4	ratio				
MSY-MT (TB)	51.4	MT				
BH-h-dimless	0.45	dimless				
SSB_{2006}/B_{lim}	1.308					
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.

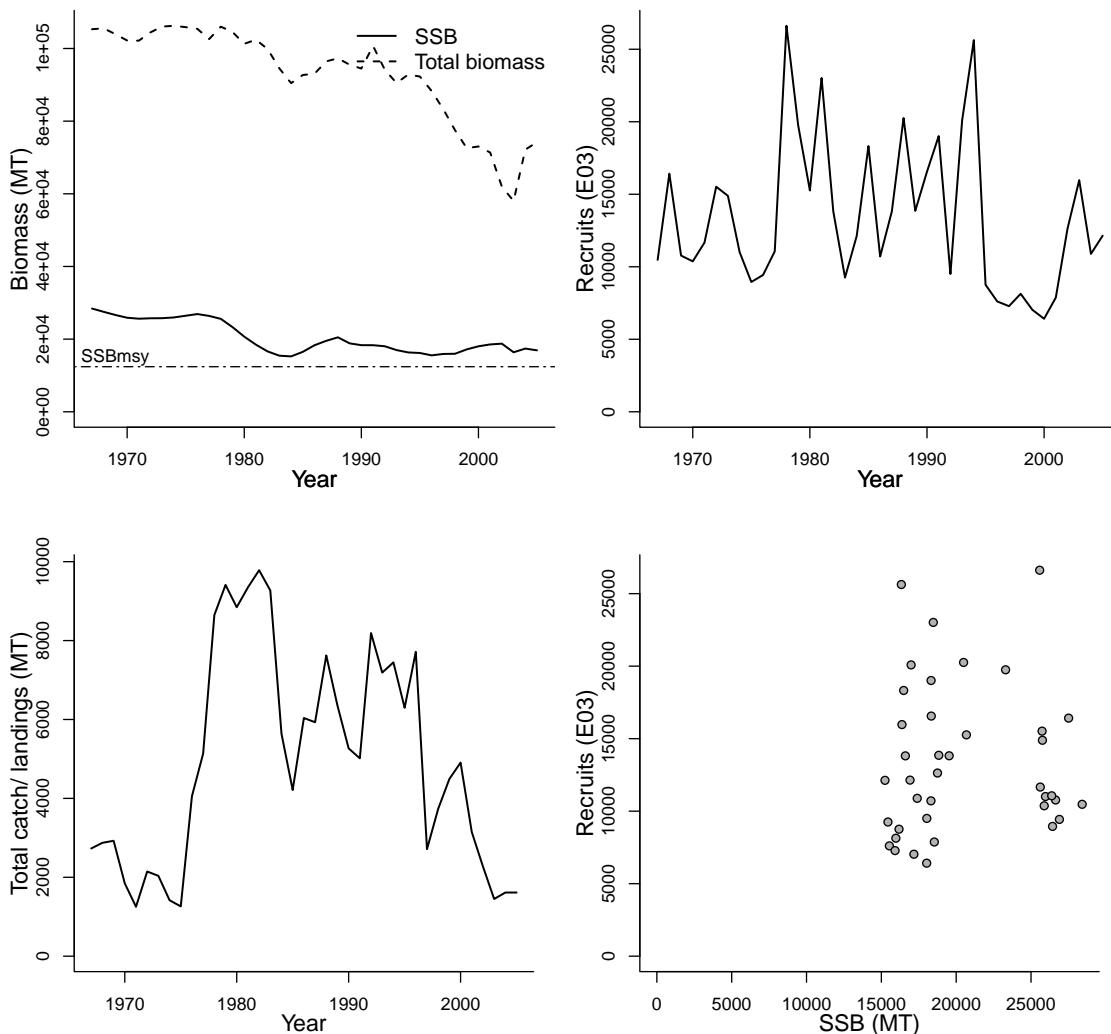
Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Wallace, John
Assessment method	Stock Synthesis v1.0 model
Publication year	2005
Timeseries span	1967-2005
Document	2005_SAFE_yellowtail.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-19
Date last loaded	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			
3 - California Current			na	na				
Parameter	Value	Units	Reference points					
SSB-AGE-yr	4+	yr	Parameter	Value	Units			
REC-AGE-yr	4	yr	NATMORT-1/yr (M)	0.11	1/yr			
F-AGE-yr-yr	4	yr-yr	SSBmsy-MT (SSB)	12407	MT			
TB-AGE-yr	4	yr	MSY-MT (TB)	4680	MT			
M-1/yr	0.11	1/yr	SSB0-MT (SSB)	31016	MT			
NATMORT-1/yr	0.11	1/yr	B0-MT	120024	MT			
M			SSB ₂₀₀₅ /SSB _{msy}	1.363				
A50-yr								
L50-cm								

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1967	1967		1967	1967
Maximum year	2005	2005		2005	2005
Time series minimum	15243.01	6414.92		58025	1252.6
Time series maximum	28418.41	26616.3		106243	9783.7
Units	MT	E03		MT	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.

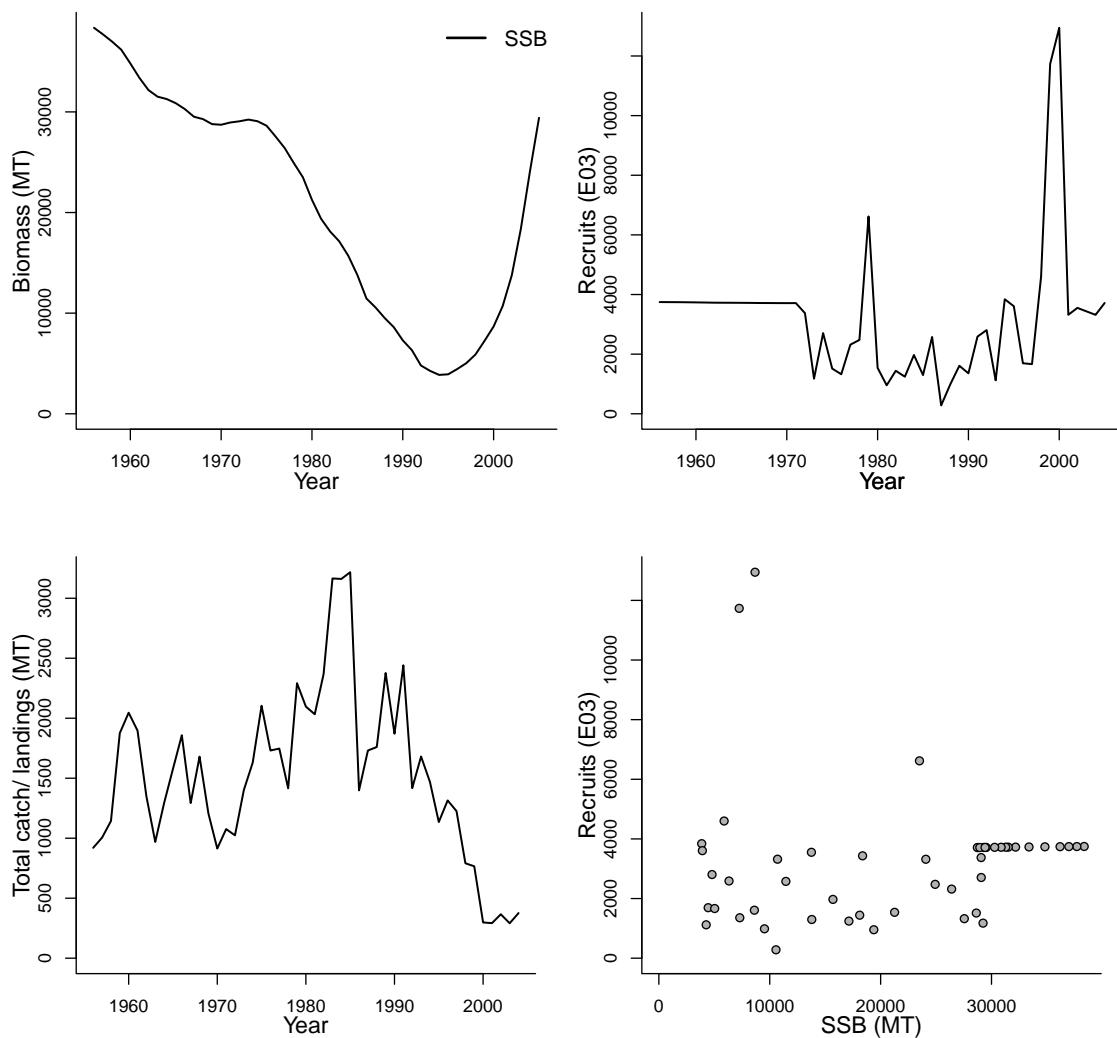
Detail	Value
Management body	NMFS
Assessment group	Pacific Fishery Management Council
Assessment authors	Jagiolo, Thomas
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1956-2005
Document	2005-SAFE-WClingscod.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-20
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	
REC-AGE-yr	0	yr	
M-1/yr	0.18	1/yr	
NATMORT-1/yr	0.18	1/yr	
SSB-AGE-yr			Reference points
TB-AGE-yr			Parameter
F-AGE-yr			Value
M			Units
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

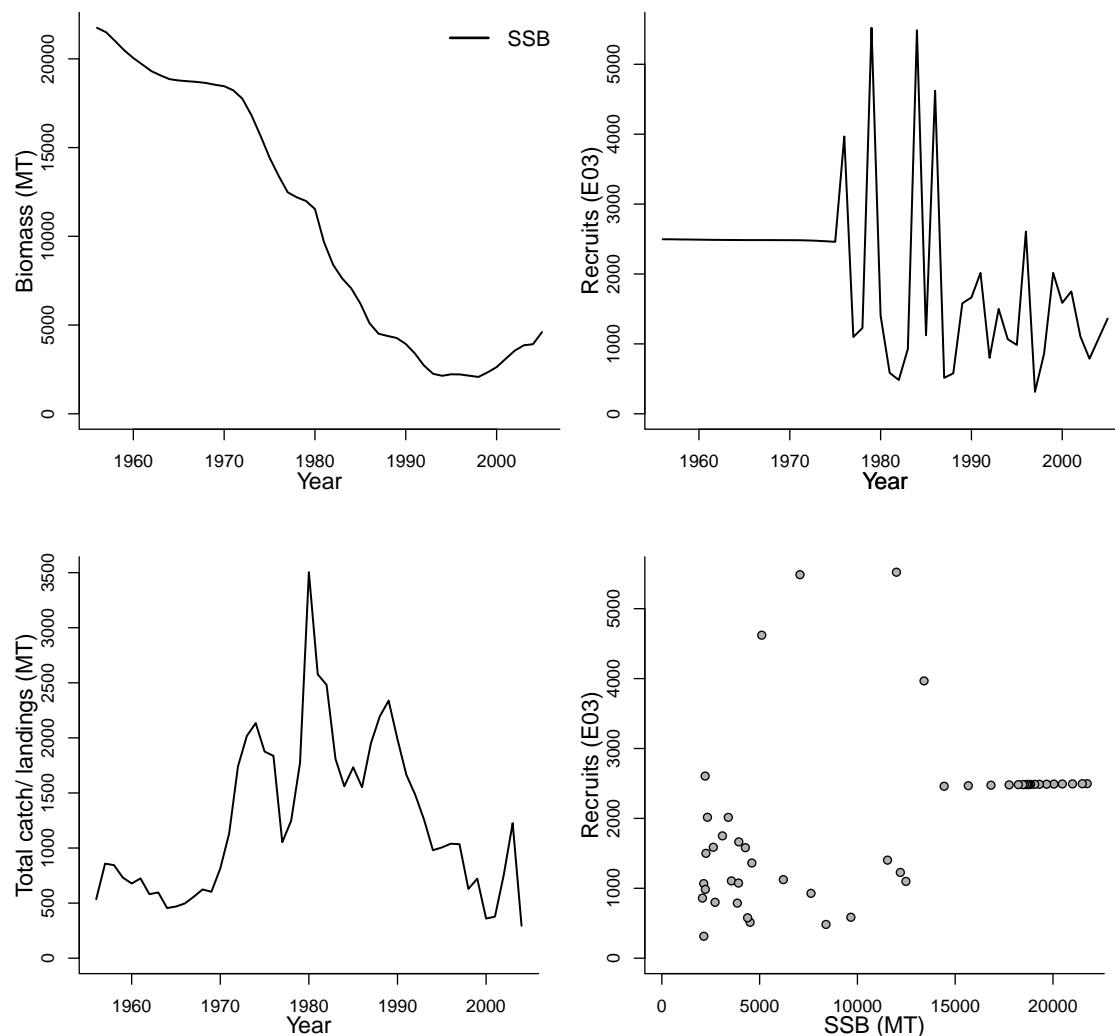
General assessment details.

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	
REC-AGE-yr	0	yr	
M-1/yr	0.18	1/yr	
NATMORT-1/yr	0.18	1/yr	
SSB-AGE-yr			Reference points
TB-AGE-yr			Parameter
F-AGE-yr			Value
M			Units
A50-yr			
L50-cm			

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 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

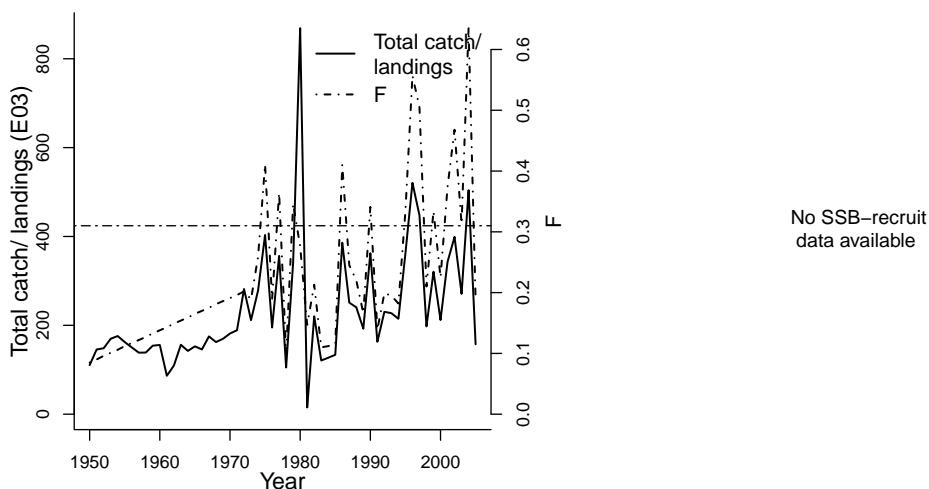
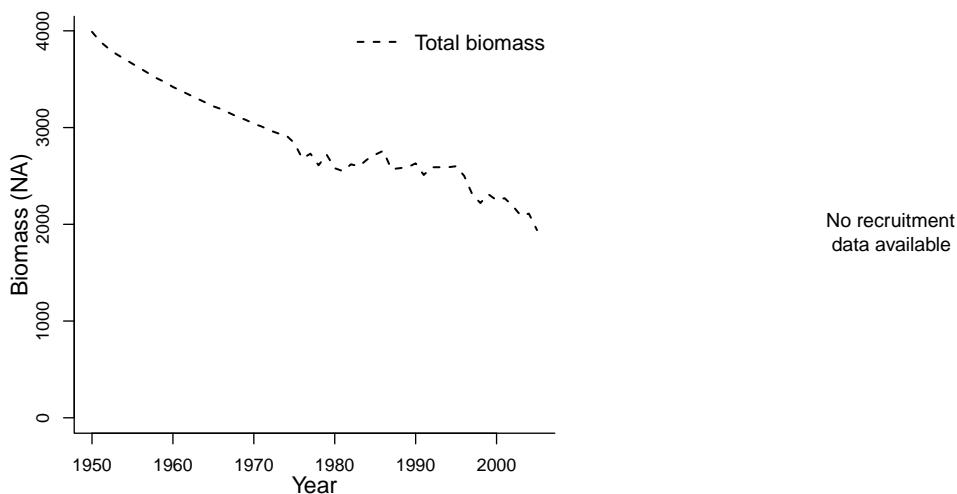
General assessment details.

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	Small coastal Atl 2007 - SEFSC.pdf (pdf not in database)
Recorder	FAUCONNET
Date entered	2009-05-08
Date last loaded	2010-01-12
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			7 - Northeast U.S. Continental Shelf			na		
			Reference points					
Parameter	Value	Units	Parameter	Value	Units			
SSB-AGE-yr	3.5	yr	Fmsy-1/yr (F)	0.31	1/yr			
REC-AGE-yr	age 1?	yr	Fcurrent-1/T (F)	0.19	1/T			
TB-AGE-yr			MSY-MT (TB)	568871	MT			
F-AGE-yr			SPRmsy-E00	0.42	E00			
M			SSFmsy-E00	1.99E+06	E00			
A50-yr			Nmsy-E00	1.92E+06	E00			
L50-cm			BH-h-dimless	0.44	dimless			
			F_{2005}/F_{msy}	0.606				

Time series minima and maxima				
	SSB	R	F	TB
Minimum year			1950	1950
Maximum year			2005	2005
Time series minimum			0.085	1940
Time series maximum			0.635	3990
Units			1/yr	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

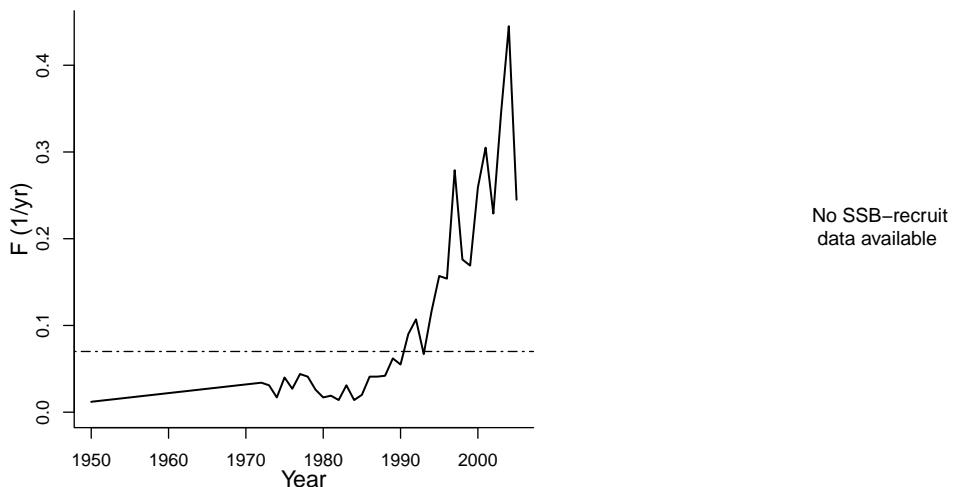
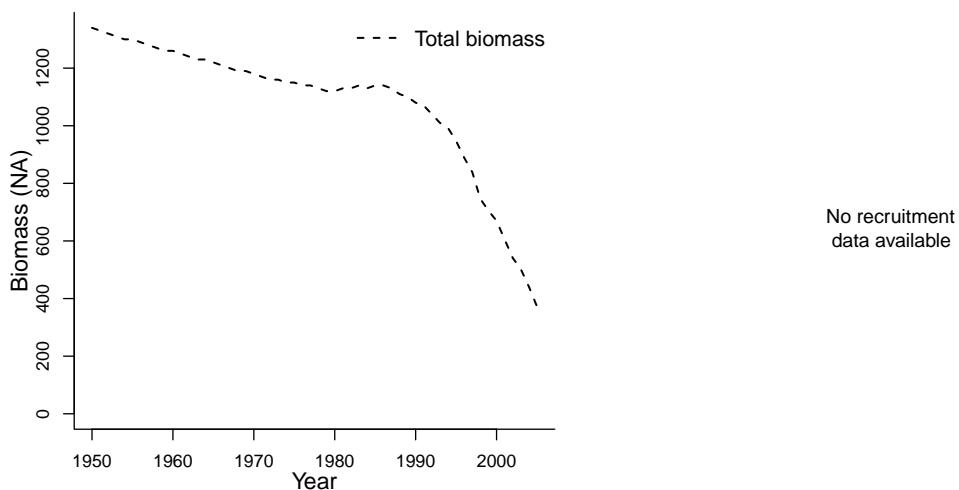
General assessment details.

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	Small coastal Atl 2007 - SEFSC.pdf (pdf not in database)
Recorder	FAUCONNET
Date entered	2009-05-06
Date last loaded	2010-01-08
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		
6 - Southeast U.S. Continental Shelf			7 - Northeast U.S. Continental Shelf			na		
			Reference points					
Parameter	Value	Units	Parameter	Value	Units			
SSB-AGE-yr	4.5	yr	Nmsy-E00	570753	E00			
REC-AGE			Fmsy-1/yr (F)	0.07	1/yr			
TB-AGE-yr			Fcurrent-1/T (F)	0.24	1/T			
F-AGE-yr			MSY-MT (TB)	89.415	MT			
M			SPRmsy-E00	0.71	E00			
A50-yr			SSFmsy-E00	349060	E00			
L50-cm			BH-h-dimless	0.24	dimless			
			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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/321>

Area ID: USA-NMFS-ATL

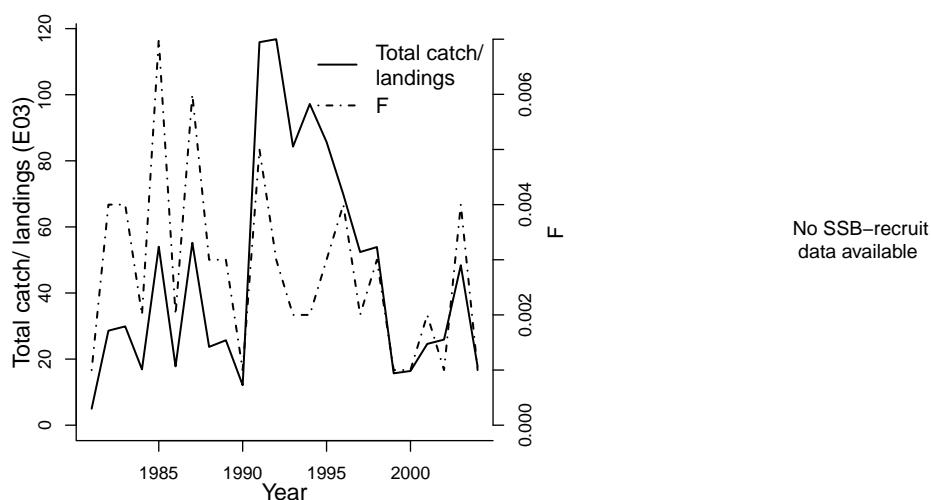
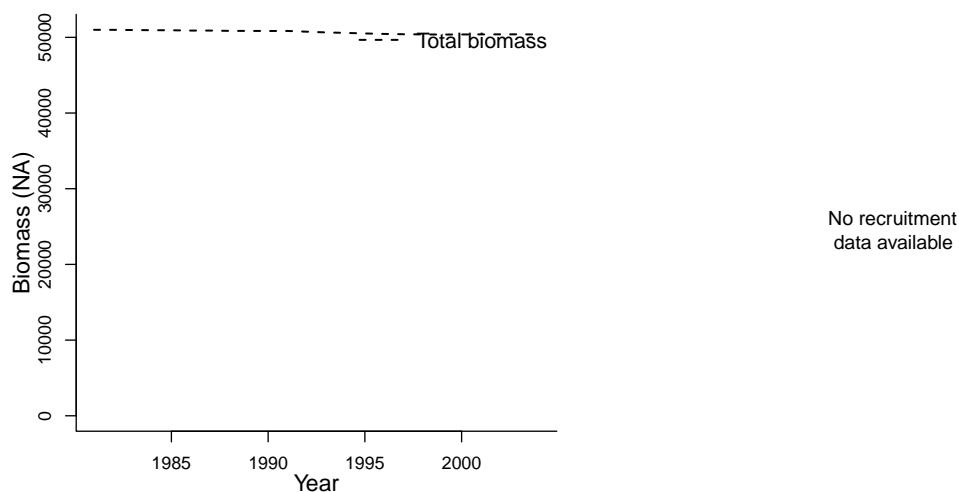
General assessment details.

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	2010-01-08
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
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	
A50-yr	7.5	yr	Fmsy-1/T (F)	0.2	1/T	
REC-AGE			MSY-MT (TB)	1.49E+04	MT	
TB-AGE-yr			RO-E00	1.50E+06	E00	
F-AGE-yr			SPRmsy-E00	0.62	E00	
M			BH-h-dimless	0.38	dimless	
L50-cm			F_{2004}/F_{msy}	0.005		

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year			1981	1981	1981
Maximum year			2004	2004	2004
Time series minimum			0.001	50365.1	5
Time series maximum			0.007	50996.3	116.8
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

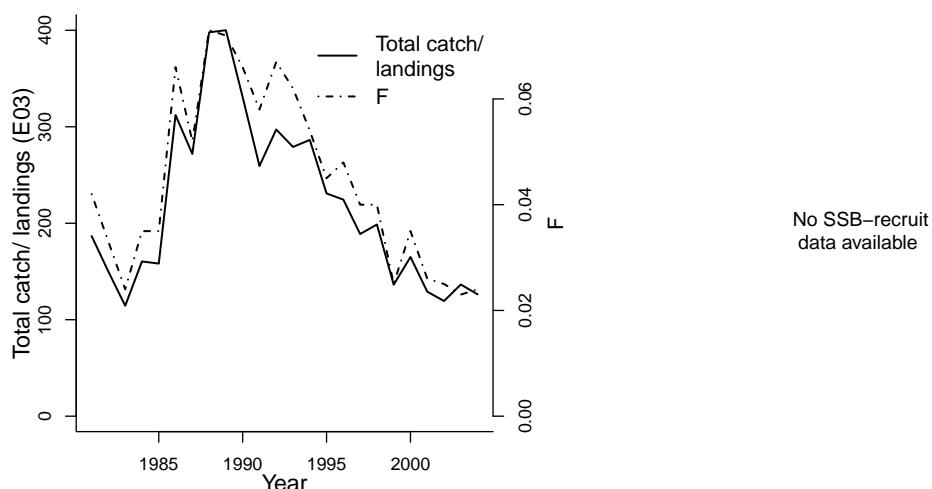
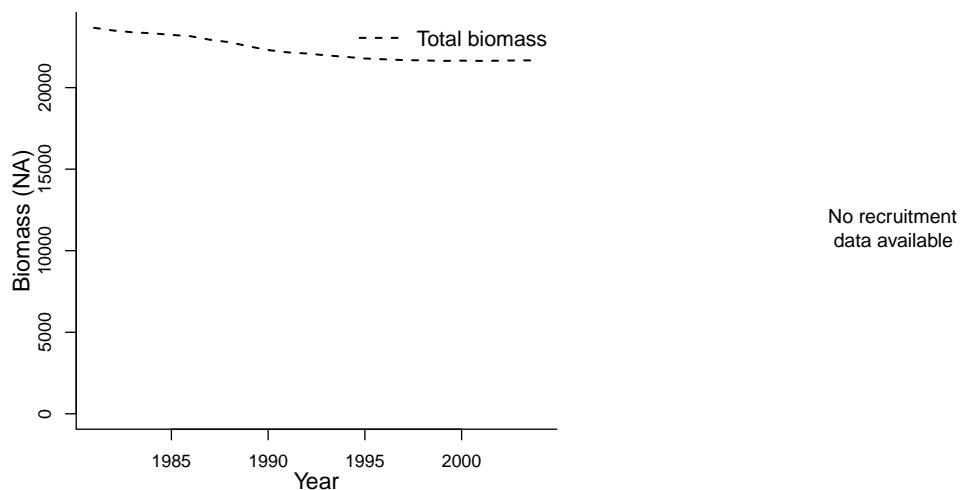
General assessment details.

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	2010-01-08
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	Parameter	Value	Units
5 - Gulf of Mexico	na	na	SSB-AGE-yr	6.5	yr
			A50-yr	6.5	yr
			REC-AGE		
			TB-AGE-yr		
			F-AGE-yr		
			M		
			L50-cm		
Reference points					
Parameter	Value	Units			
Fmsy-1/T (F)	0.20	1/T			
MSY-MT (TB)	2.42E+04	MT			
R0-E00	1.50E+07	E00			
SPRmsy-E00	0.62	E00			
BH-h-dimless	0.40	dimless			
F_{2004}/F_{msy}	0.120				

Time series minima and maxima					
	SSB	R	F	TB	
Minimum year			1981	1981	1981
Maximum year			2004	2004	2004
Time series minimum	0.023			21636.06	114.5
Time series maximum	0.073			23667.92	400.1
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

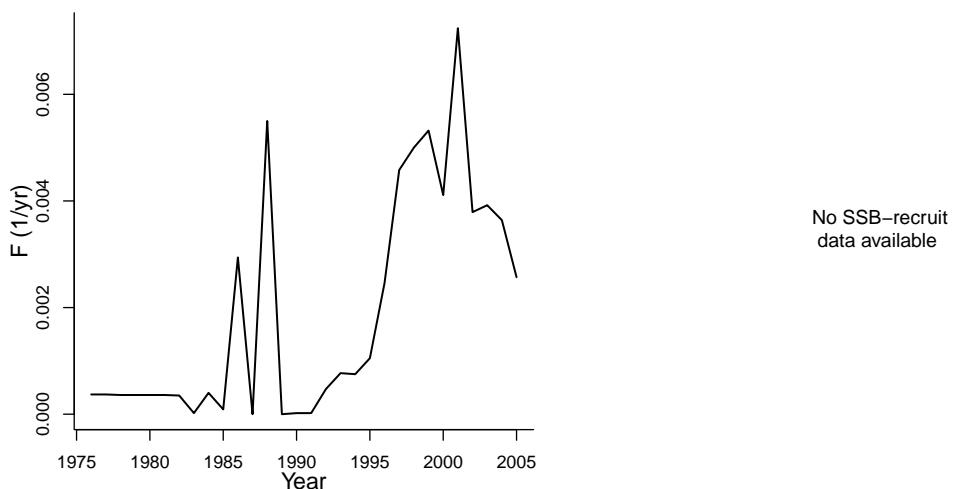
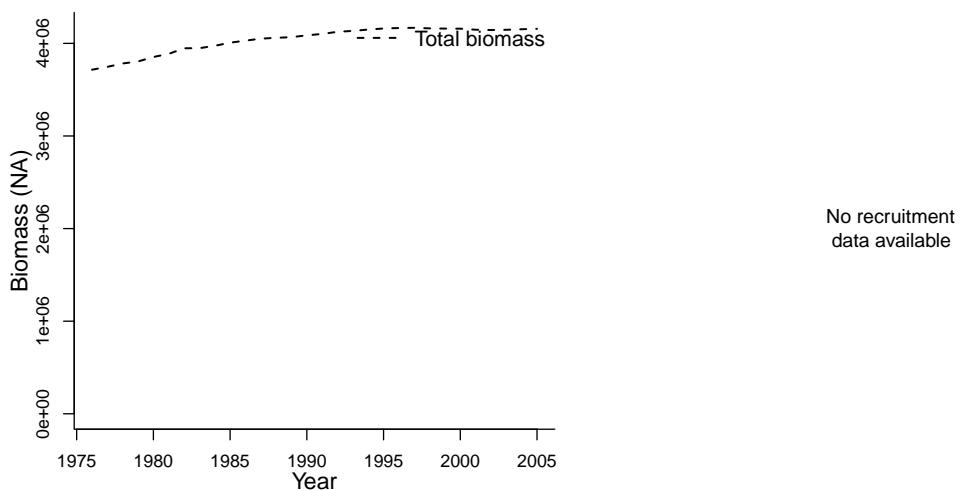
General assessment details.

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	2010-01-08
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
6 - Southeast U.S. Continental Shelf	7 - Northeast U.S. Continental Shelf			na
Parameter	Value	Units	Reference points	
A50-yr	5	yr	Fmsy-1/T (F)	0.030
REC-AGE			Nmsy-E00	3199000
SSB-AGE-yr			MSY-E00	96000
TB-AGE-yr			K-E00	6397000
F-AGE-yr			RY-E00	21000
M			r-1/yr	0.060
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

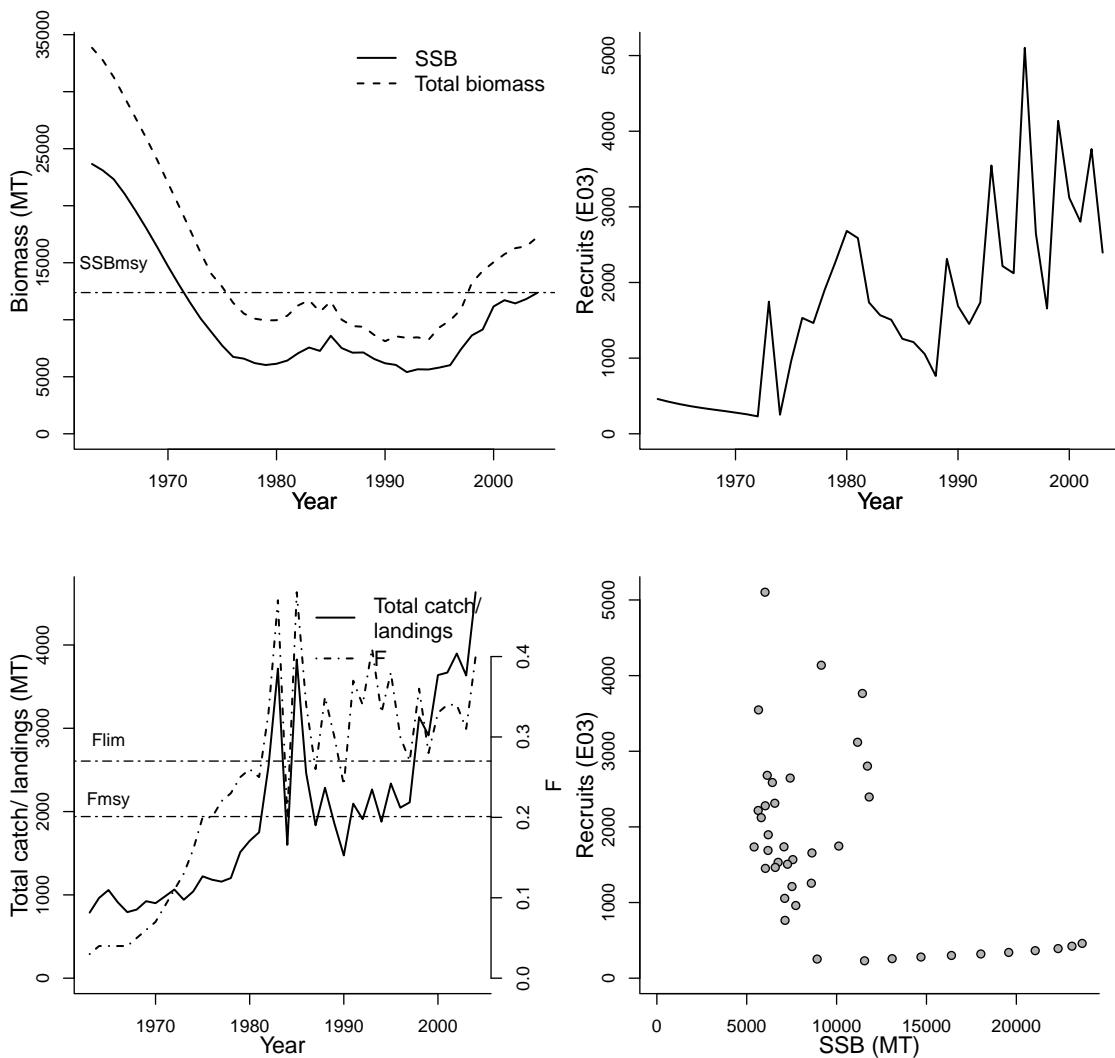
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
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	2010-02-12
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
5 - Gulf of Mexico			na	na	
Parameter	Value	Units	Parameter	Value	Reference points
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/T (F)	0.201	1/T
TB-AGE-yr			MSY-MT (TB)	2241.651664	MT
F-AGE-yr			SSBmsy-MT (SSB)	12383.06	MT
M			F_{2004}/F_{lim}	1.481	
L50-cm			F_{2004}/F_{msy}	1.990	
			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	229.988	0.03	8116.58
Time series maximum	23661.63	5102.58	0.48	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.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/17>

Area ID: USA-NMFS-SATLC

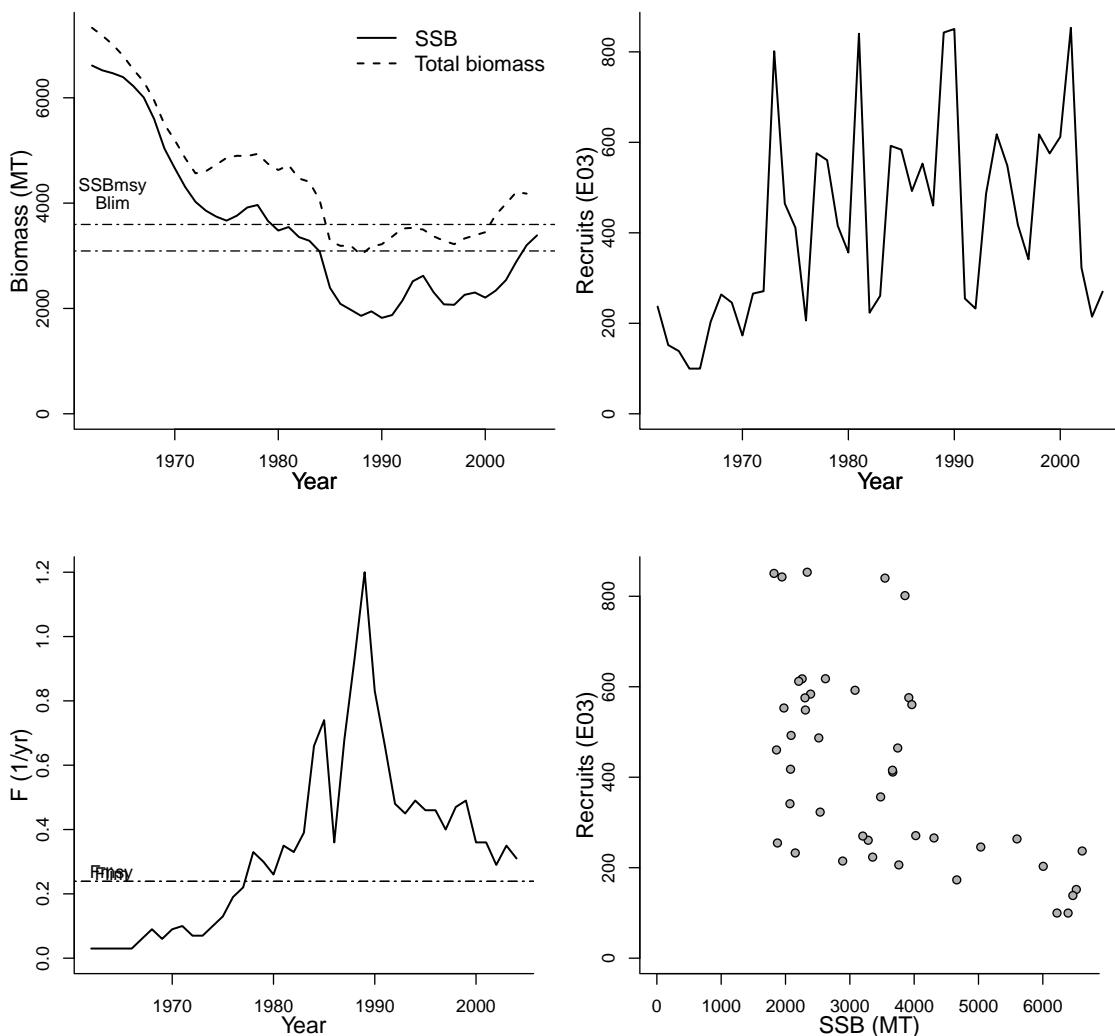
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Unknown
Publication year	2006
Timeseries span	1962-2005
Document	JENSEN_GAGSATLC_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-19
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	0.14	1/yr	Blim-MT (SSB)	3091.456276	MT
REC-AGE			Flim-1/yr (F)	0.239	1/yr
SSB-AGE-yr			Fmsy-1/T (F)	0.239	1/T
TB-AGE-yr			MSY-MT (TB)	562	MT
F-AGE-yr			SSBmsy-MT (SSB)	3594.7166	MT
M			SSB_{2005}/B_{lim}	1.096	
A50-yr			F_{2004}/F_{lim}	1.297	
L50-cm			F_{2004}/F_{msy}	1.297	
			SSB_{2005}/SSB_{msy}	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.

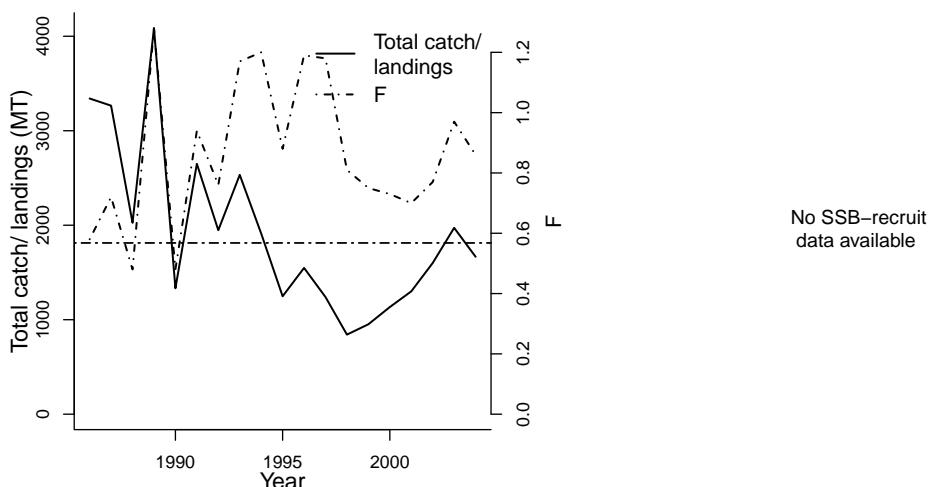
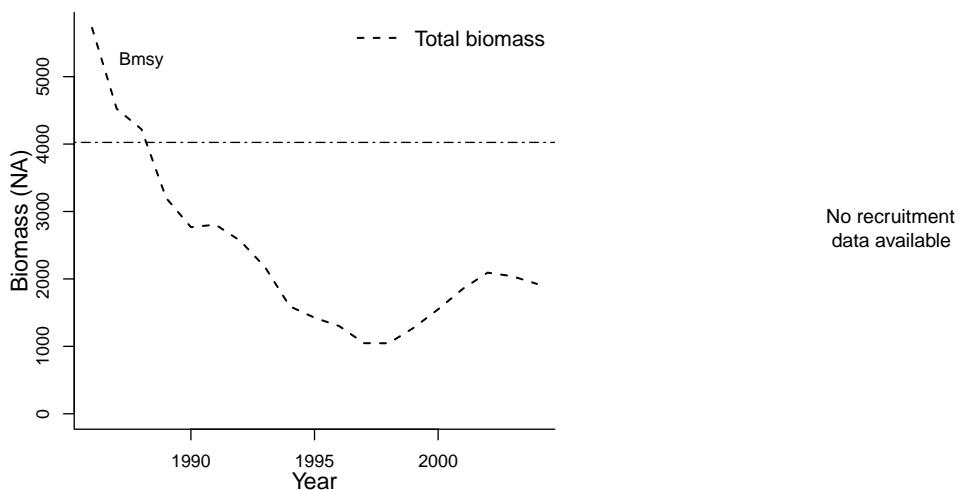
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Surplus production model
Publication year	2006
Timeseries span	1986-2004
Document	JENSEN_GRAMBERGM_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-19
Date last loaded	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.

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

Parameter	Value	Units
B _m sy-MT (TB)	4024.721816	MT
F _{lim} -1/yr (F)	0.5679	1/yr
F _m sy-1/T (F)	0.5679	1/T
MSY-MT (TB)	2285.650088	MT
F_{2004}/F_{lim}	1.514	
TB_{2004}/B_{msy}	0.478	
F_{2004}/F_{msy}	1.514	

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

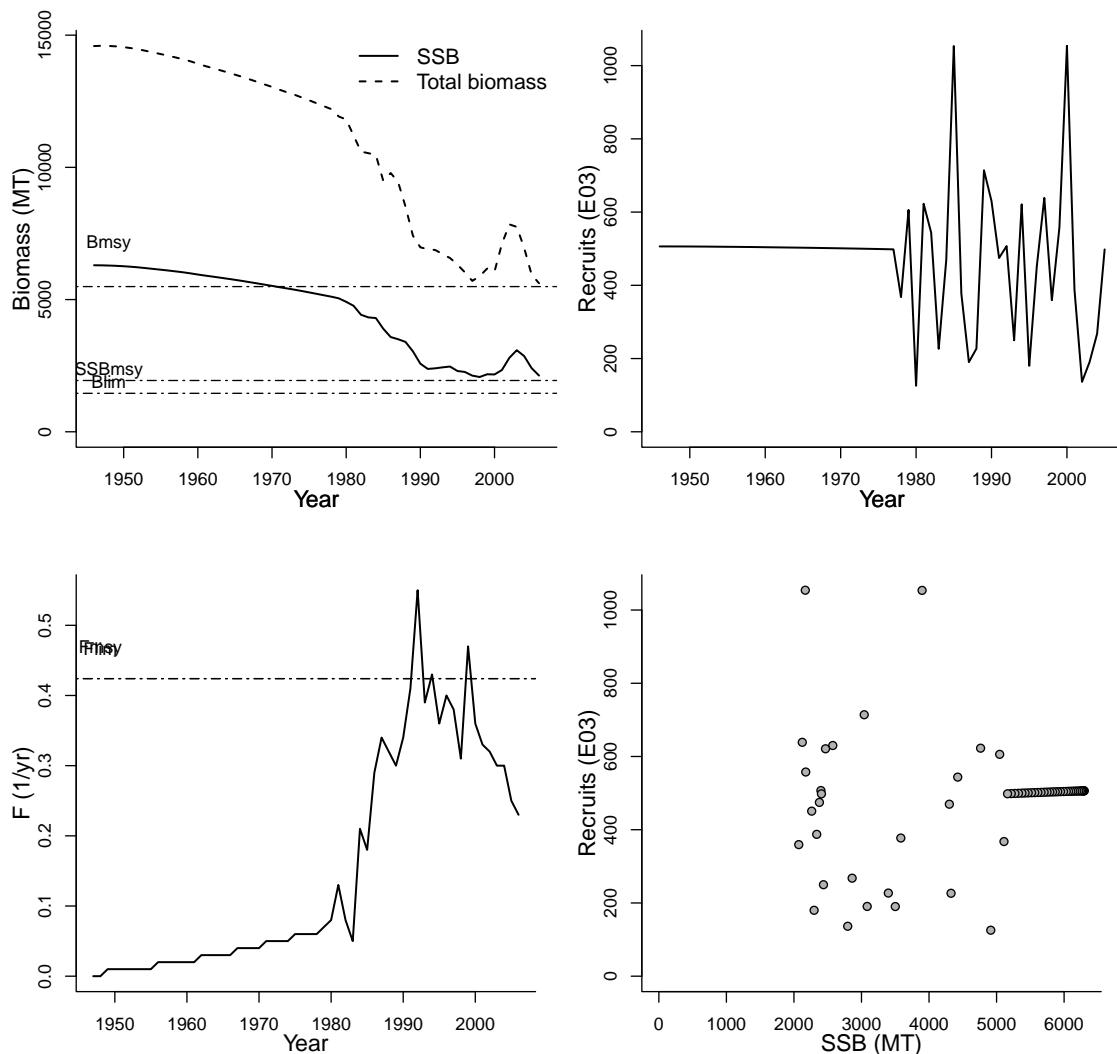
General assessment details.

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		
Parameter	Value	Units	Parameter	Value	Units
M-1/yr	0.25	1/yr	Blim-MT (SSB)	1455	MT
REC-AGE			Bmsy-MT (TB)	5491	MT
SSB-AGE-yr			Flim-1/yr (F)	0.424	1/yr
TB-AGE-yr			Fmsy-1/T (F)	0.424	1/T
F-AGE-yr			MSY-MT (TB)	2005	MT
M			SSBmsy-MT (SSB)	1940	MT
A50-yr			SSB_{2006}/B_{lim}	1.461	
L50-cm			F_{2006}/F_{lim}	0.542	
			TB_{2006}/B_{msy}	1.023	
			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.

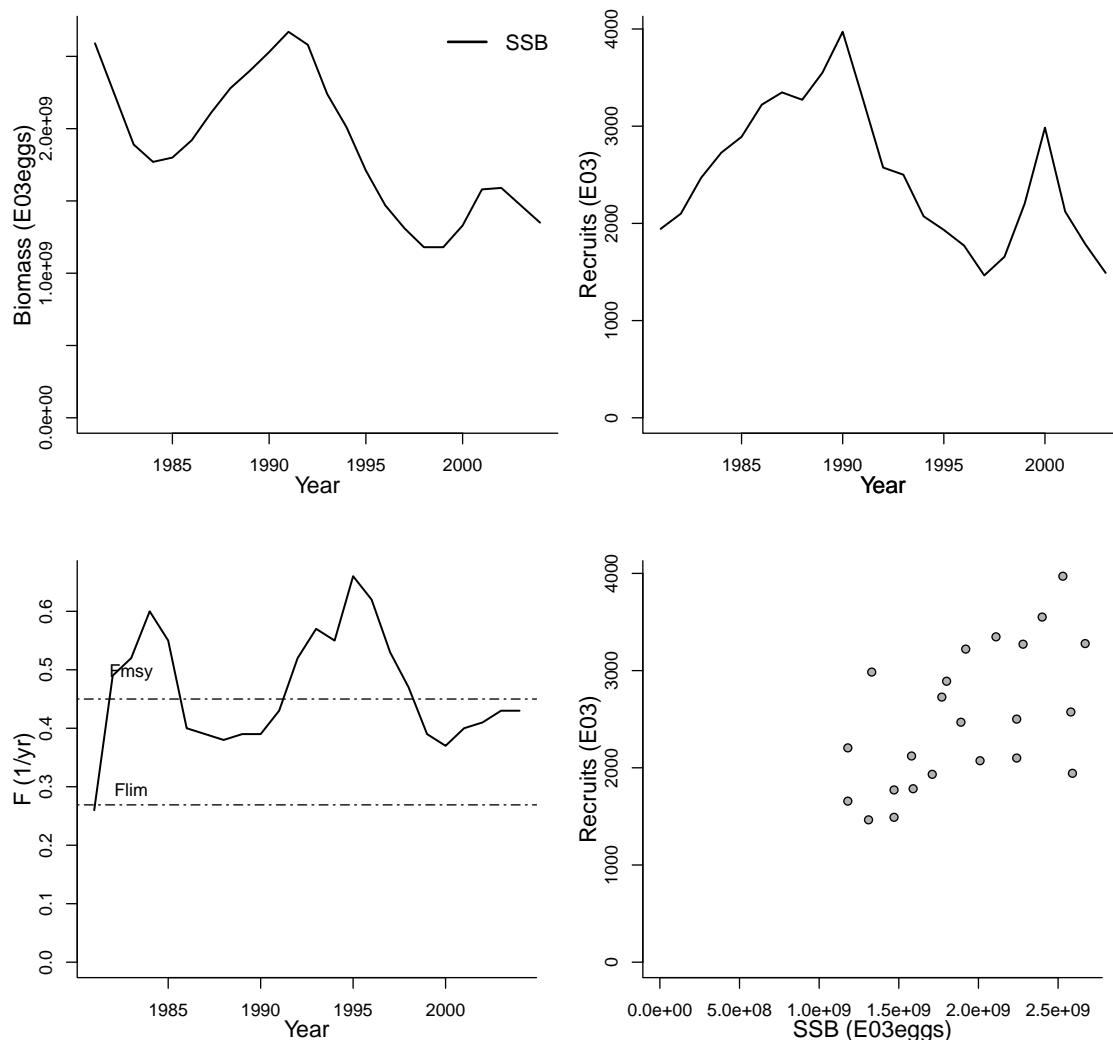
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Age-structured surplus production model
Publication year	2006
Timeseries span	1981-2004
Document	JENSEN_GTRIGGM_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-21
Date last loaded	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.

Parameter	Value	Units
M-1/yr	0.27	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Parameter	Value	Units
Flim-1/yr (F)	0.269	1/yr
Fmsy-1/T (F)	0.45	1/T
MSY-MT (TB)	743	MT
SSBmsy-E00eggs	1.21E+12	E00eggs
F_{2004}/F_{lim}	1.599	
F_{2004}/F_{msy}	0.956	
SSB_{2004}/SSB_{msy}	0.001	

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.

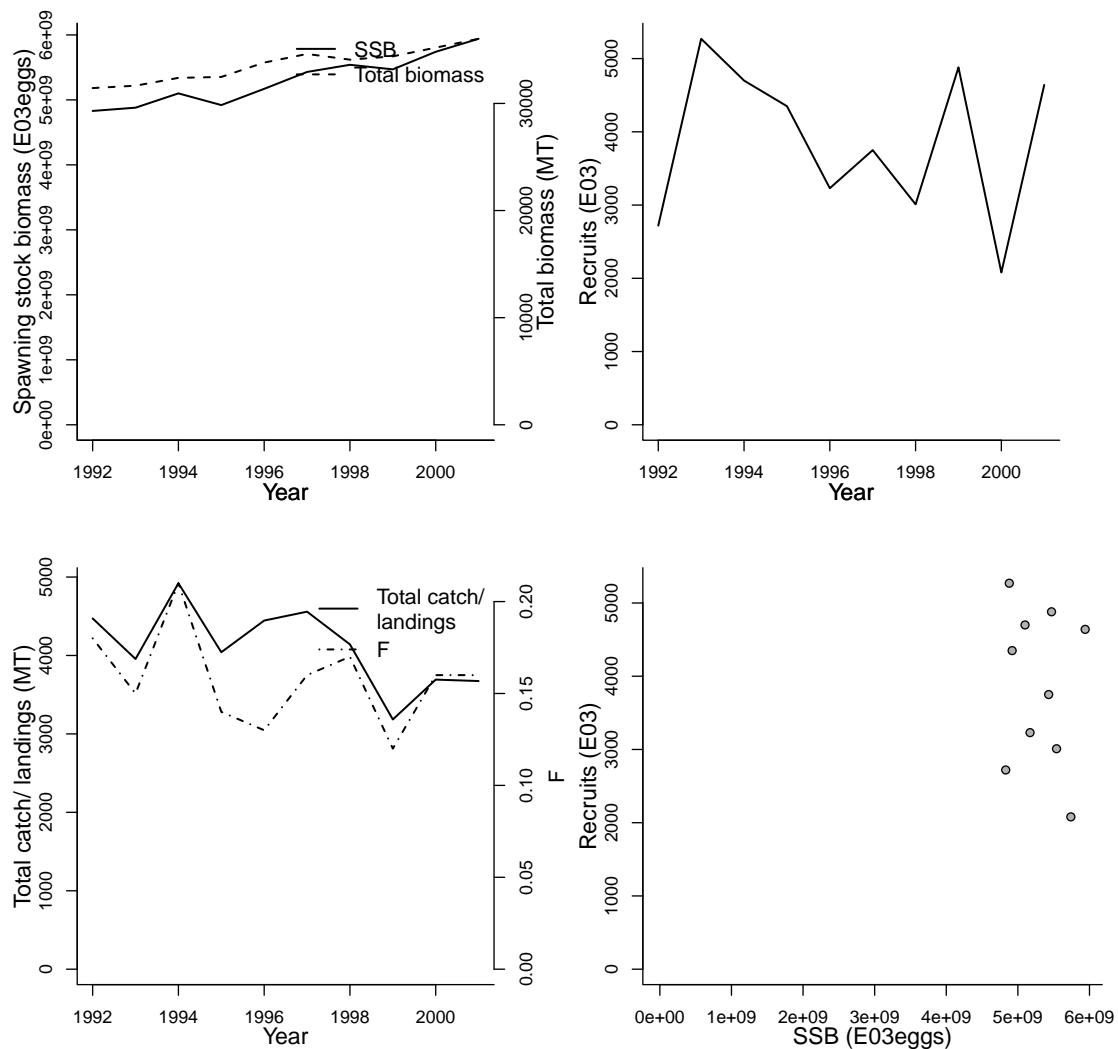
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Virtual Population Analysis
Publication year	2004
Timeseries span	1992-2001
Document	JENSEN_KMACKGMSATLC_2004.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-23
Date last loaded	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.

Parameter	Value	Units
M-1/yr	0.2	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Parameter	Reference points	Units
Fmsy-1/T (F)	0.269	1/T
MSY-MT (TB)	5178.659864	MT
SSBmsy-E00eggs	6385000000000.00	E00eggs
F_{2001}/F_{msy}	0.595	
SSB_{2001}/SSB_{msy}	0.001	

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

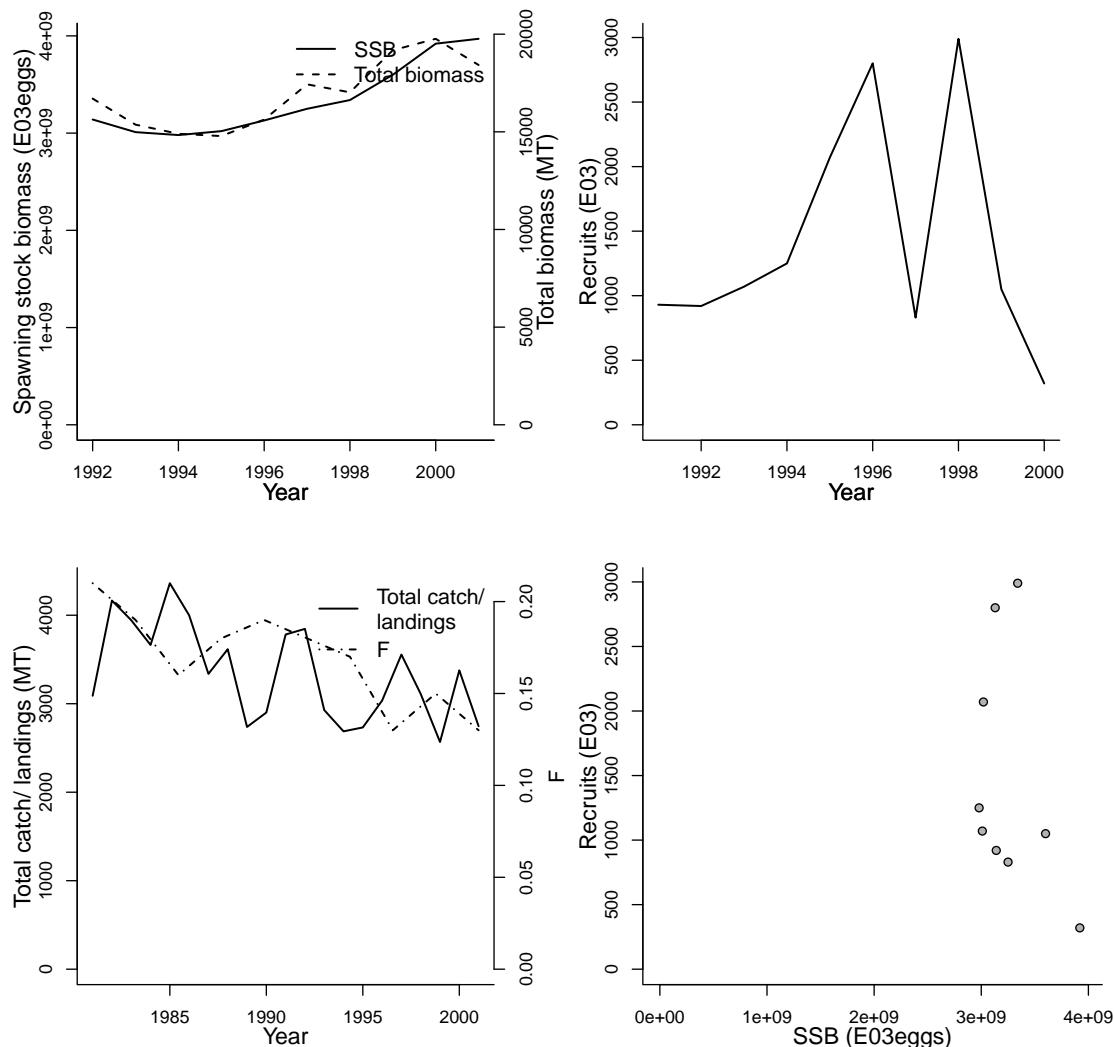
General assessment details.

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	Units
REC-AGE			Fmsy-1/T (F)	0.29	1/T
SSB-AGE-yr			MSY-MT (TB)	2576.40	MT
TB-AGE-yr			SSBmsy-E00eggs	2930000000000	E00eggs
F-AGE-yr			F_{2001}/F_{msy}	0.448	
M			SSB_{2001}/SSB_{msy}	0.001	
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.

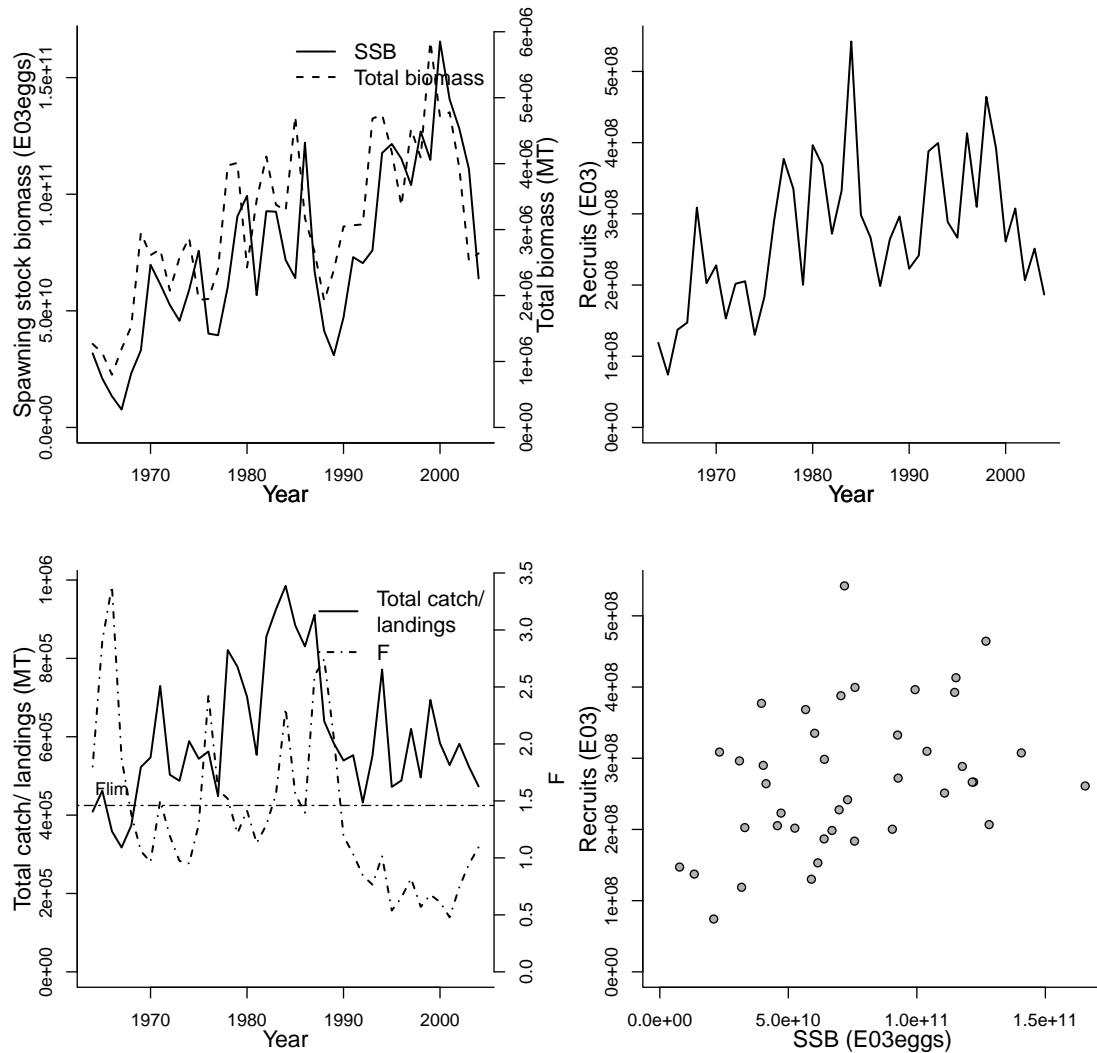
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Vaughan, Douglas
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1964-2004
Document	GILROY-MENHADENGM-2007.pdf (pdf in database)
Recorder	GILROY
Date entered	2009-02-16
Date last loaded	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
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Parameter	Reference points	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
$F_{2004}/Flim$		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

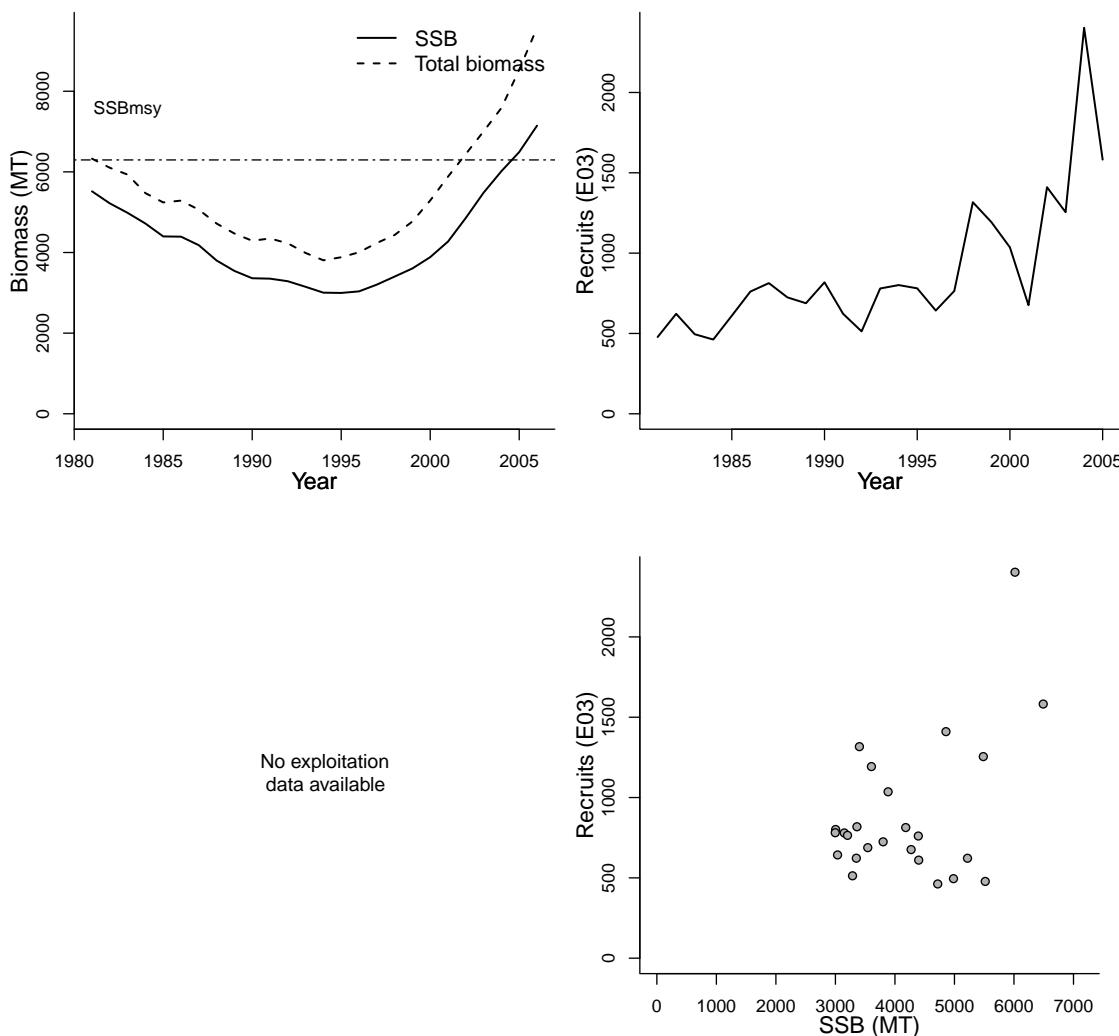
General assessment details.

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	Reference points		
A50-yr	3.7	yr	Fmsy-1/T (F)	0.340	1/T
M-1/yr	0.11	1/yr	MSY-MT (TB)	688	MT
REC-AGE			SSBmsy-MT (SSB)	6296	MT
SSB-AGE-yr			$SSB_{2006}/SSB_{m sy}$	1.135	
TB-AGE-yr					
F-AGE-yr					
M					
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.

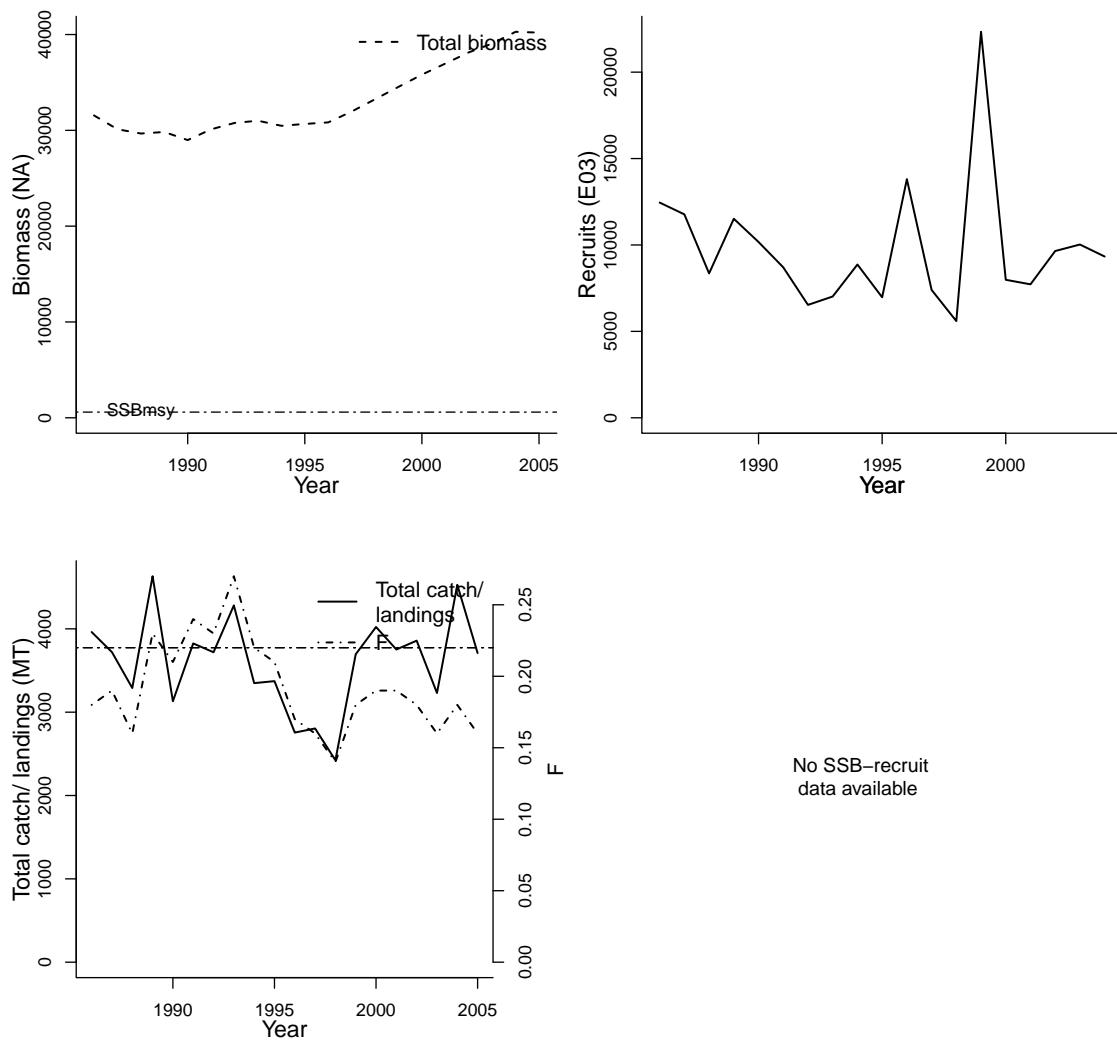
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Age Structured Assessment Program
Publication year	2006
Timeseries span	1986-2005
Document	JENSEN_RGROUPGM-2006.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-22
Date last loaded	2010-01-19
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.

Parameter	Value	Units
M-1/yr	0.14	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Parameter	Reference points	Value	Units
Blim-FemaleGonadMT	FemaleGonadMT	509	
SSBmsy-MT (SSB)	MT	591	
Flim-1/yr (F)	1/yr	0.22	
Fmsy-1/T (F)	1/T	0.22	
MSY-MT (TB)	MT	3501.73024	
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-1972-2005-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/73>

Area ID: USA-NMFS-SATLC

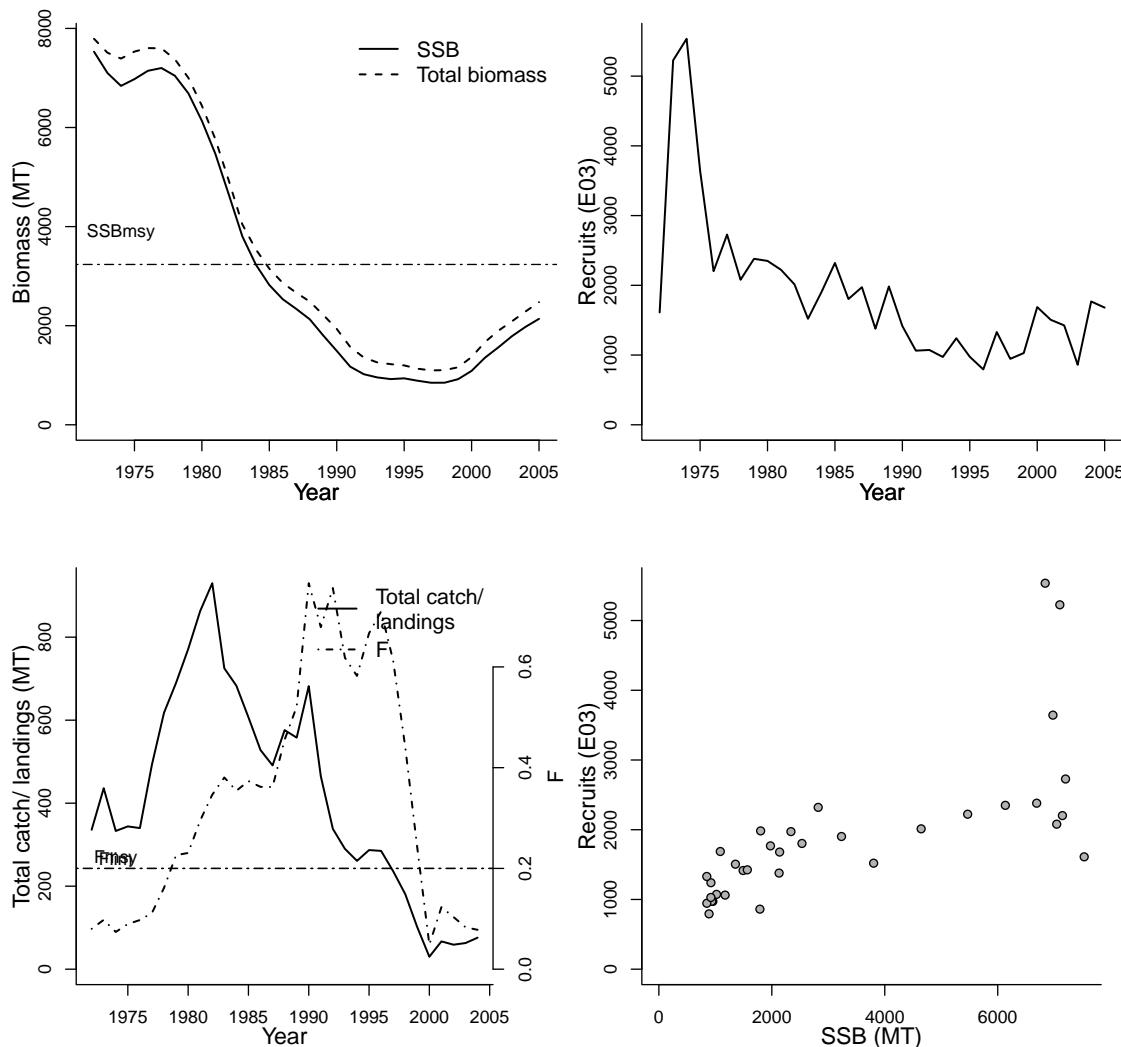
General assessment details.

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	1972-2005
Document	JENSEN_RPORGYSATLC_2006.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	na	na
<hr/>		
Parameter	Value	Units
A50-yr	2	yr
M-1/T	0.225	1/T
REC-AGE		
SSB-AGE-yr		
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/T (F)	0.200	1/T
MORATOR-yr-yr	1999-2000	yr-yr
MSY-MT (TB)	283.81	MT
SSBmsy-MT (SSB)	3236.02	MT
SSB_{2005}/B_{lim}	0.853	
F_{2004}/F_{lim}	0.391	
F_{2004}/F_{msy}	0.391	
SSB_{2005}/SSB_{msy}	0.661	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1972	1972	1972	1972
Maximum year	2005	2005	2004	2005
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 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

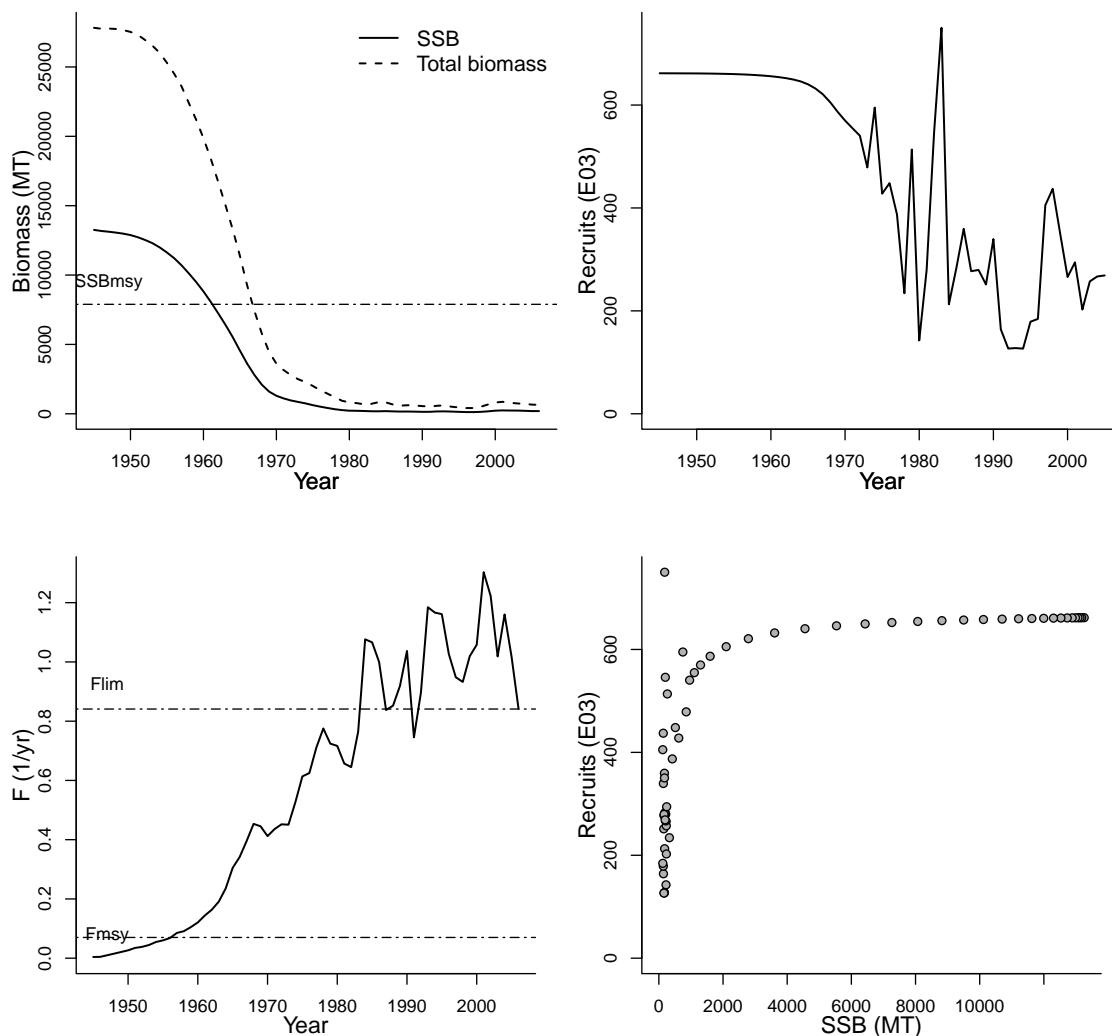
General assessment details.

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
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
SSB_{2006}/B_{lim}	0.027	
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 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

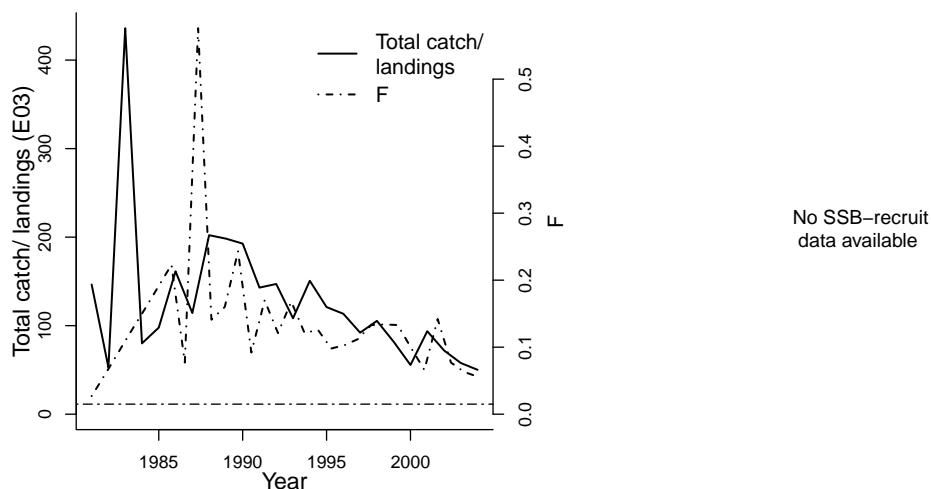
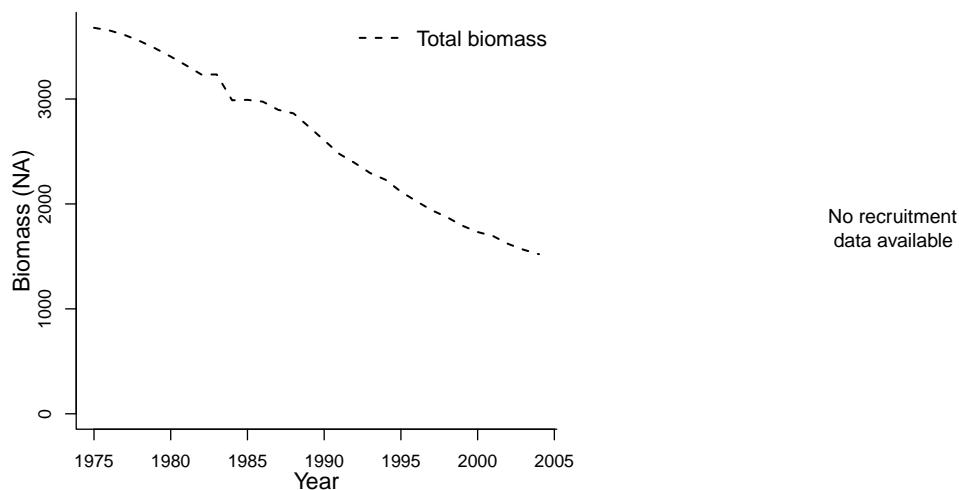
General assessment details.

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	Large Coastal Atl 2006 - SEFSC.pdf (pdf not in database)
Recorder	FAUCONNET
Date entered	2009-04-29
Date last loaded	2009-11-07
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	
SSB-AGE-yr	19	yr	BH-h-dimless	0.32
A50-yr	19	yr	Fmsy-1/T (F)	0.015
M-1/T	0.224	1/T	Fref-1/T (F)	9.80E-05
REC-AGE			MSY-MT (TB)	403
TB-AGE-yr			RO-E00	5.00E+05
F-AGE-yr			SPRmsy-E00	0.95
M			SSFmsy-E00	1127210.53
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.marinебiodiversity.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	Small coastal Atl 2007 - SEFSC.pdf (pdf not in database)
Recorder	FAUCONNET
Date entered	2009-05-07
Date last loaded	2010-01-11
QA/QC complete	NO
Date approved	

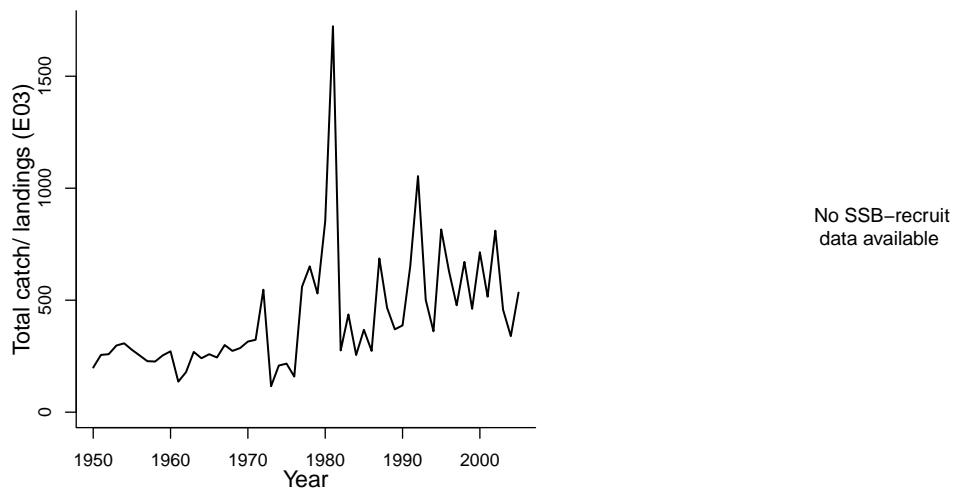
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME			tertiary LME		
6 - Southeast U.S. Continental Shelf			7 - Northeast U.S. Continental Shelf			na		
			Reference points					
Parameter	Value	Units	Parameter	Value	Units			
SSB-AGE-yr	2.5	yr	Fmsy-1/yr (F)	0.19	1/yr			
REC-AGE			Fcurrent-1/T (F)	0.13	1/T			
TB-AGE-yr			MSY-MT (TB)	1.27E+06	MT			
F-AGE-yr			r-1/yr	0.165	1/yr			
M			SPRmsy-E00	0.59	E00			
A50-yr			SSFmsy-E00	4.59E+06	E00			
L50-cm			Nmsy-E00	4.62E+06	E00			
			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

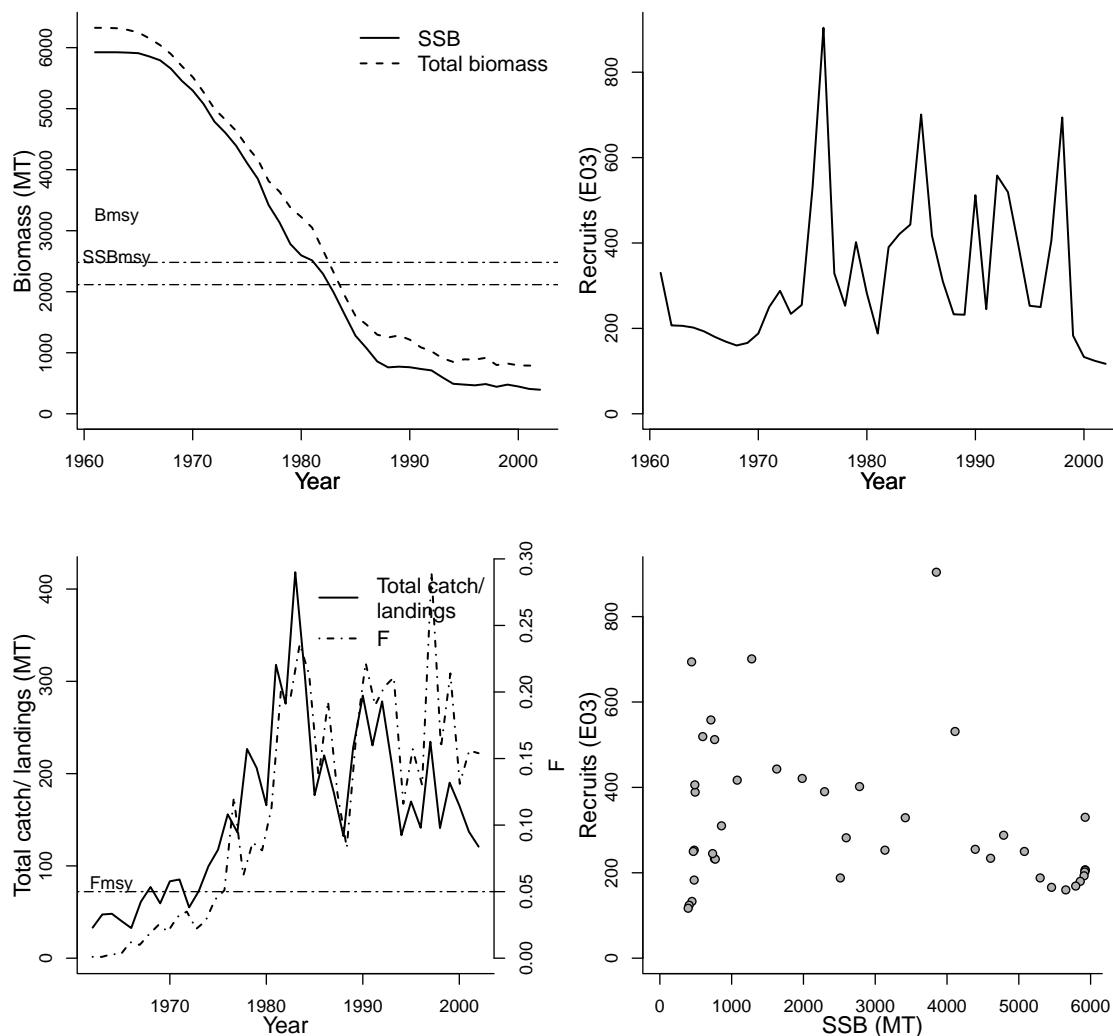
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	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 in database)
Recorder	STANTON
Date entered	2009-05-29
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	
6 - Southeast U.S. Continental Shelf			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr	5.6	yr	Fmsy-1/yr (F)	0.05	1/yr
REC-AGE-yr	0	yr	F40%-1/T	0.047	1/T
F-AGE-yr-yr	2+	yr-yr	SSBmsy-MT (SSB)	2116	MT
TB-AGE-yr	1+	yr	MSY-MT (TB)	142	MT
L50-cm	52.4	cm	Umsy-ratio (U)	0.037	ratio
M			Bmsy-MT (TB)	2481	MT
A50-yr			TB_{2002}/B_{msy}	0.371	
			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	117	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.

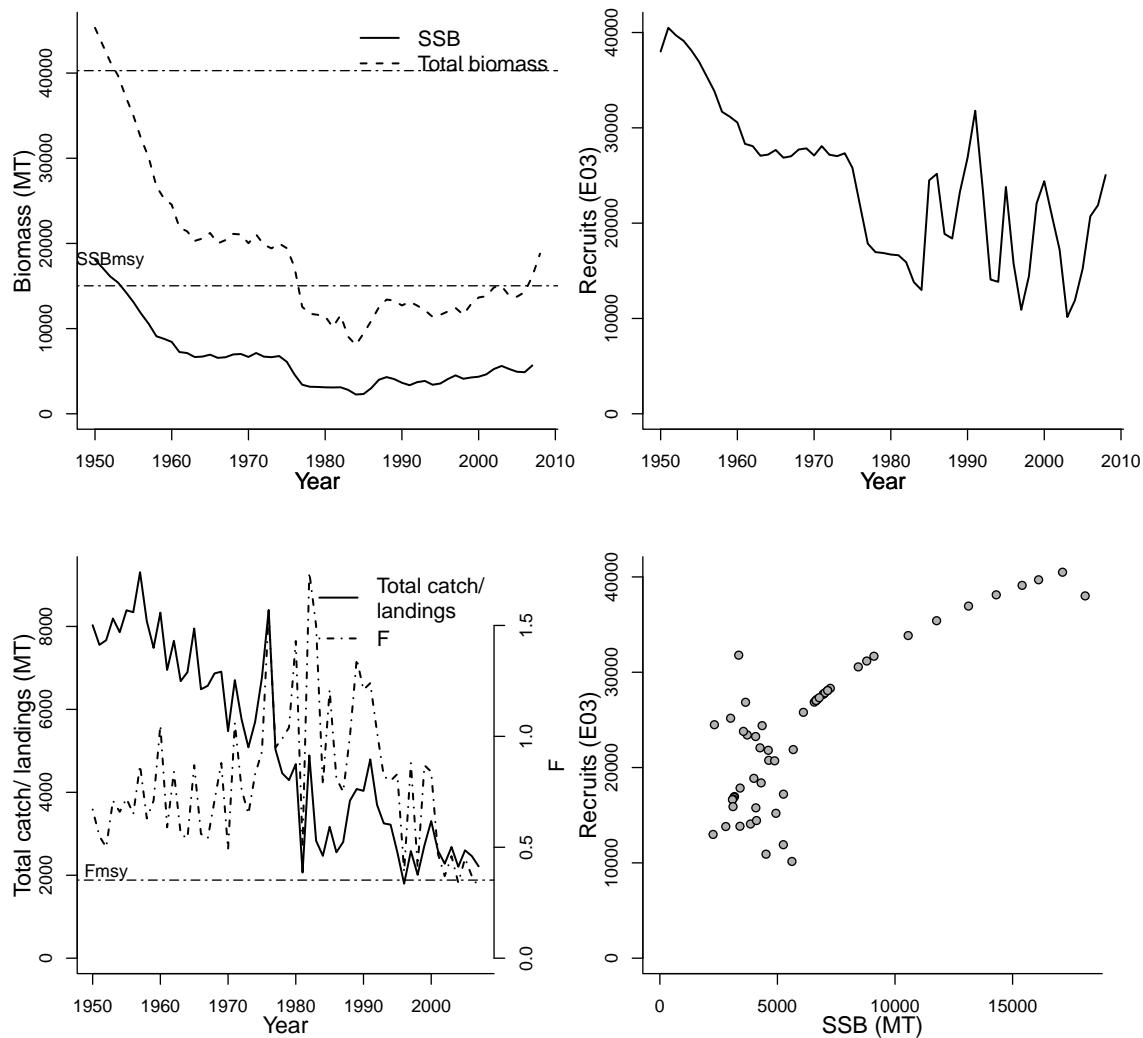
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1950-2008
Document	JENSEN_SPANMACKSATLC_2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-25
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			na	na		
Parameter	Value	Units	Parameter	Reference points	Value	Units
REC-AGE			Bmsy-MT (TB)		40288	MT
SSB-AGE-yr			Fmsy-1/T (F)		0.352	1/T
TB-AGE-yr			MSY-MT (TB)		5941.60	MT
F-AGE-yr			SSBmsy-MT (SSB)		15027	MT
M			TB_{2008}/B_{msy}		0.467	
A50-yr			F_{2007}/F_{msy}		0.909	
L50-cm			SSB_{2007}/SSB_{msy}		0.377	

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

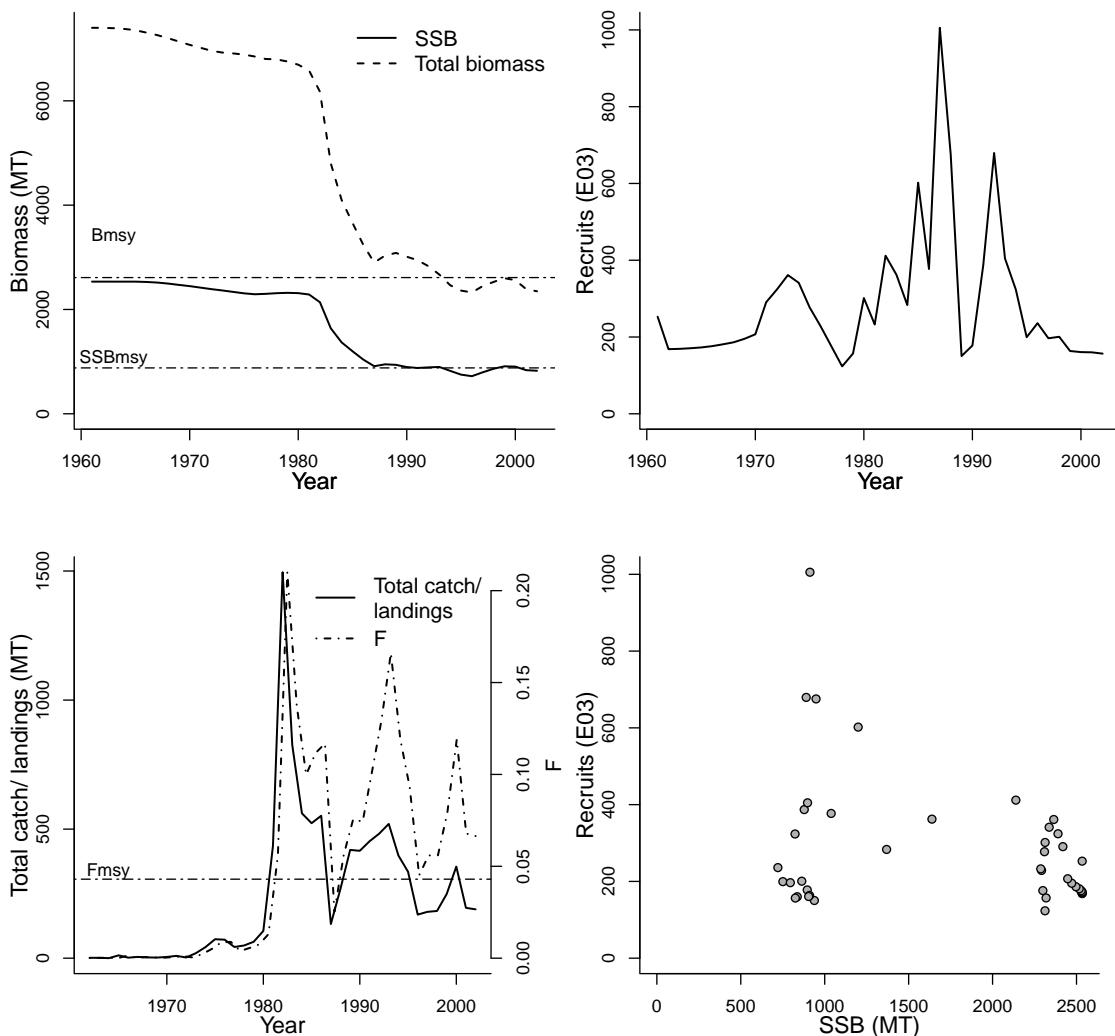
General assessment details.

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 in database)
Recorder	STANTON
Date entered	2009-05-29
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
6 - Southeast U.S. Continental Shelf			na	na
Parameter	Value	Units	Reference points	
F-AGE-yr-yr	2+	yr-yr	Fmax-1/yr (F)	0.081
TB-AGE-yr	1+	yr	Fmsy-1/yr (F)	0.043
REC-AGE			F40%-1/T	0.043
SSB-AGE-yr			SSBmsy-MT (SSB)	879.4
M			MSY-MT (TB)	152.6
A50-yr			Umsy-ratio (U)	0.035
L50-cm			Bmsy-MT (TB)	2611.4
			TB_{2002}/B_{msy}	2.670
			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

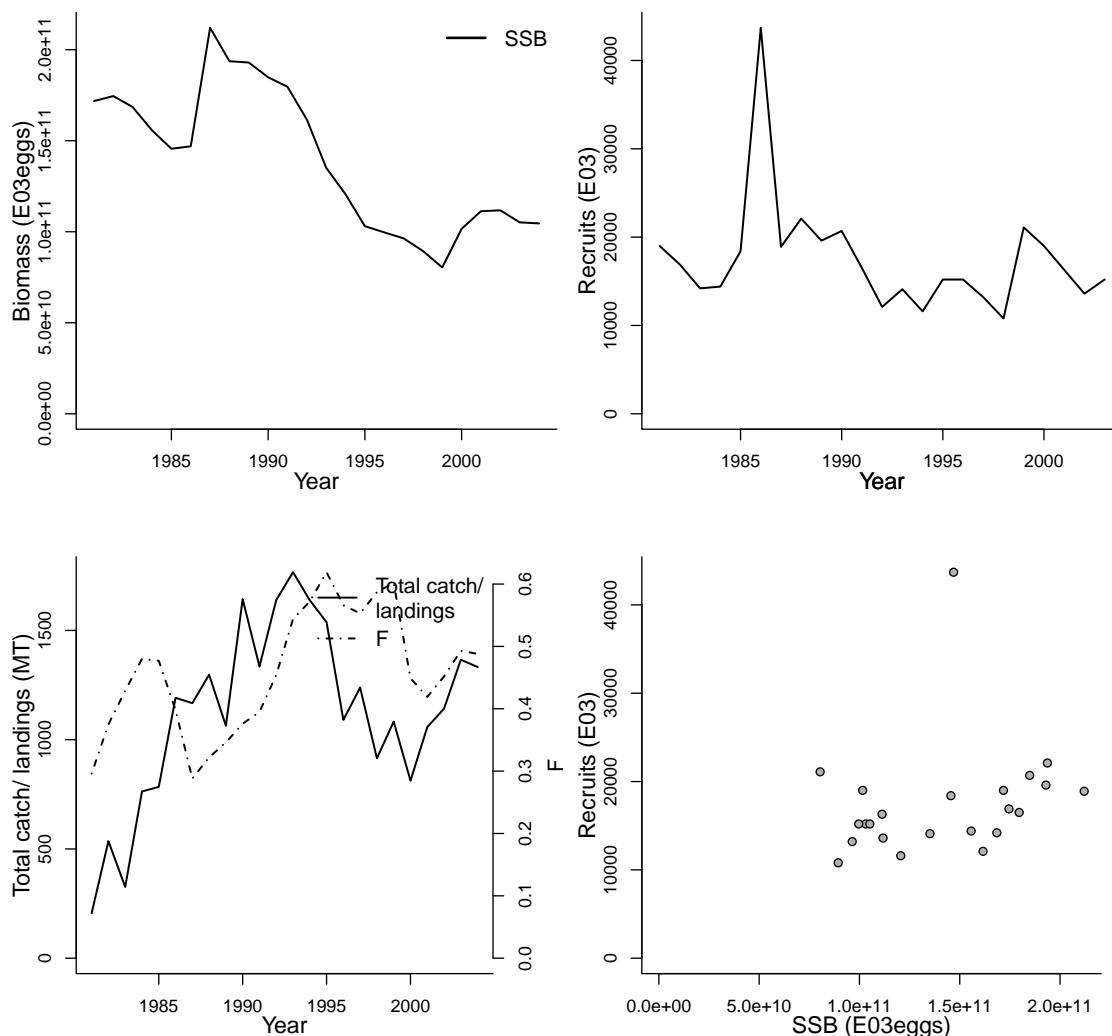
General assessment details.

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	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
5 - Gulf of Mexico		na	na		
Reference points					
Parameter	Value	Units	Parameter	Value	Units
M-1/T	AVAILABLE	1/T	Blim-E00eggs	7.14E+13	E00eggs
REC-AGE			Flim-1/yr (F)	0.79	1/yr
SSB-AGE-yr			Fmsy-1/T (F)	0.81	1/T
TB-AGE-yr			MSY-MT (TB)	3374.72	MT
F-AGE-yr			SSBmsy-E00eggs	6.88E+13	E00eggs
M			SSB ₂₀₀₄ /B _{lim}	0.001	
A50-yr			F ₂₀₀₄ /F _{lim}	0.618	
L50-cm			F ₂₀₀₄ /F _{m_{sy}}	0.602	
			SSB ₂₀₀₄ /SSB _{m_{sy}}	0.002	

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

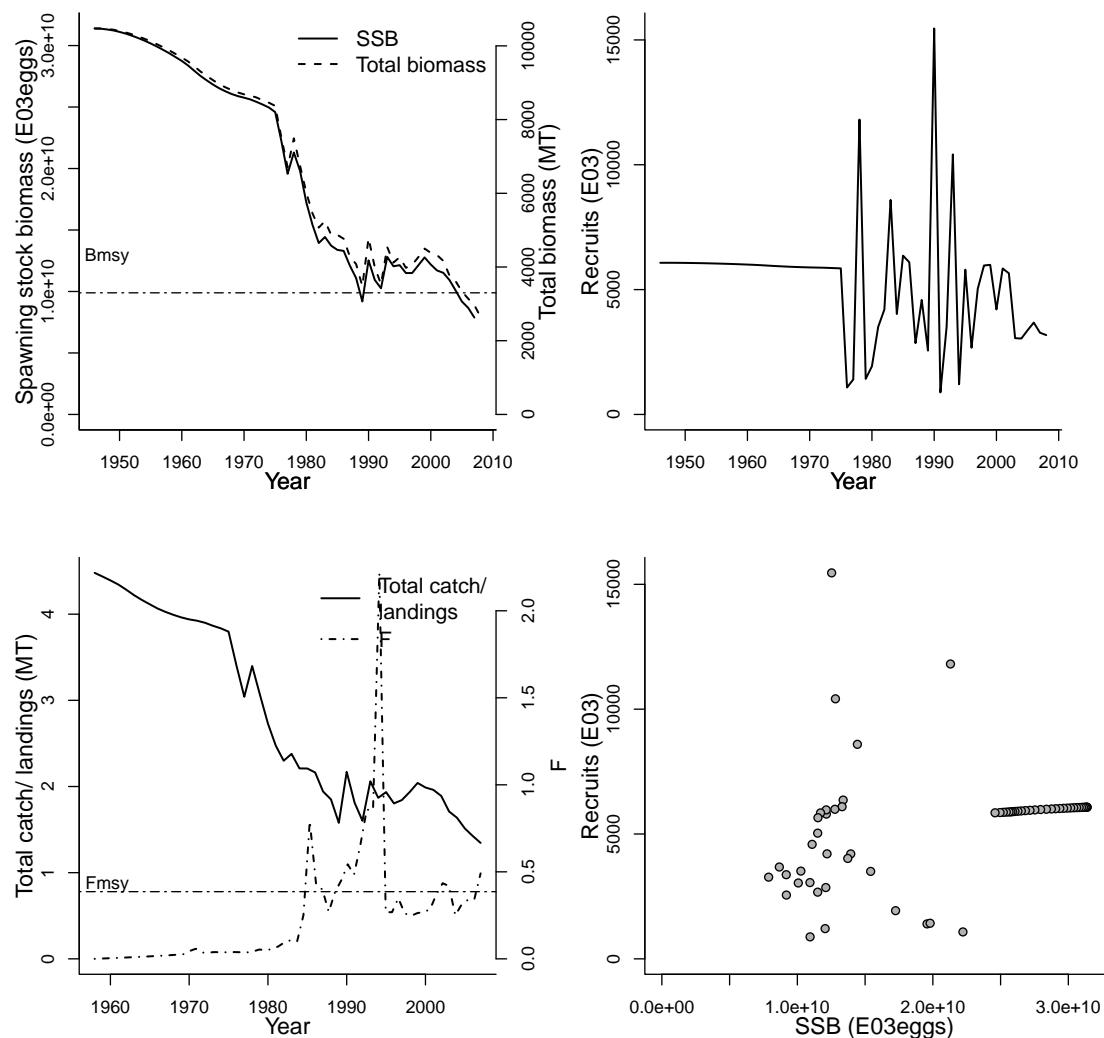
General assessment details.

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	2004
Timeseries span	1946-2008
Document	2008-SEDAR-VermillionSnapper-Satl.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-06-01
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
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
TB-AGE-yr		
M		
A50-yr		
L50-cm		
<hr/>		
Parameter	Reference points	
Parameter	Value	Units
Fmsy-1/yr (F)	0.386	1/yr
NATMORT-1/yr (M)	0.22	1/yr
SSBmsy-MT (SSB)	9.16E+12	MT
MSY-MT (TB)	755.239045631861	MT
Bmsy-MT (TB)	3300	MT
BH-h-dimless	0.56	dimless
TB_{2008}/B_{msy}	0.000	
F_{2007}/F_{msy}	1.273	
SSB_{2007}/SSB_{msy}	0.001	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1946	1946	1946	1946
Maximum year	2007	2008	2007	2008
Time series minimum	7880000000	881	0	2642
Time series maximum	31390000000	15458.8	2.2178	10472
Units	E03eggs	E03	1/yr	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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/401>

Area ID: USA-NMFS-SATLCGM

General assessment details.

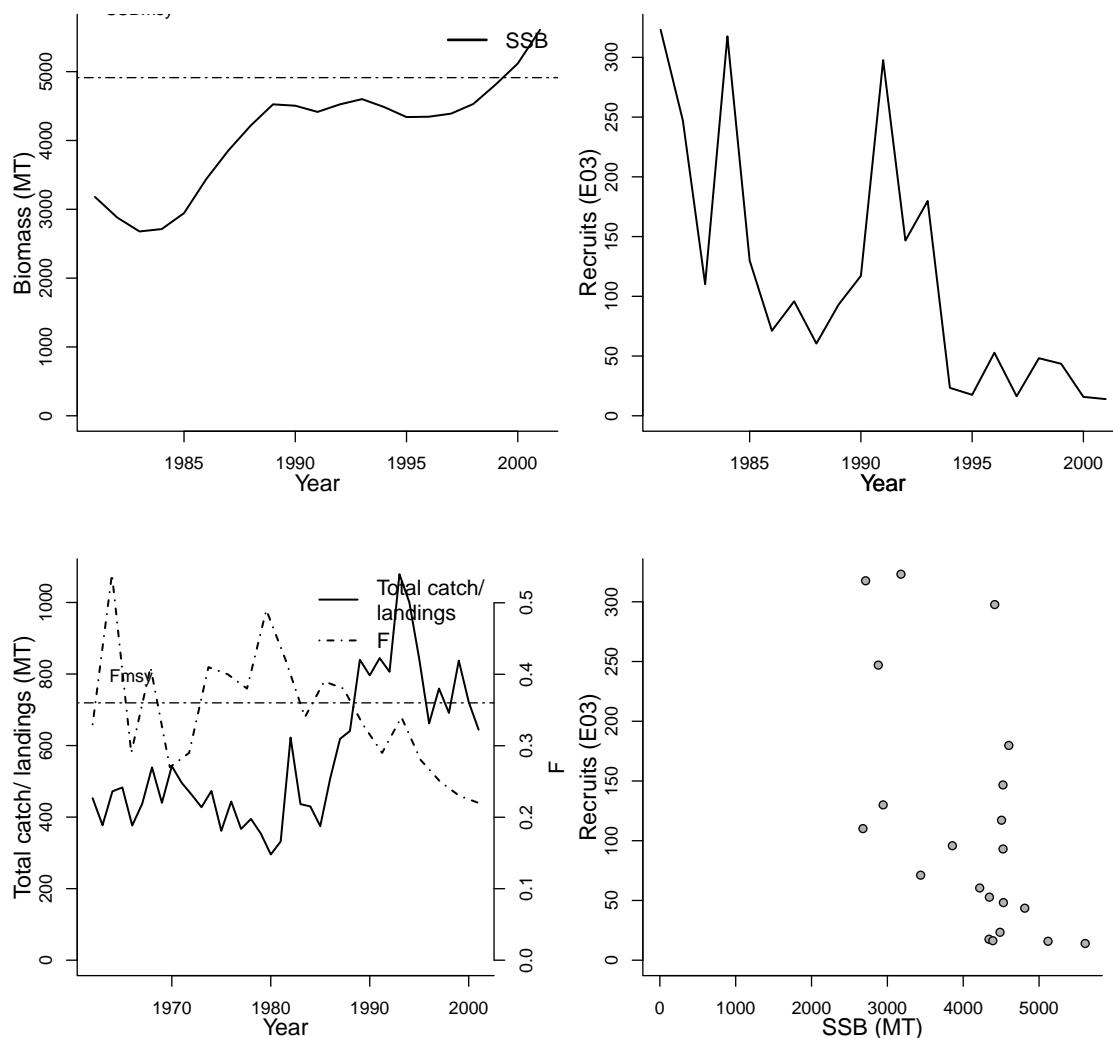
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Muller, R
Assessment method	Statistical catch-at-age model
Publication year	2003
Timeseries span	1962-2001
Document	2003_SEDAR_Yellowtailsnapper.pdf (pdf not in database)
Recorder	STANTON
Date entered	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
REC-AGE-yr	1	yr	Fmsy-1/yr (F)	0.36	1/yr
L50-cm	20.9	cm	NATMORT-1/yr (M)	0.2	1/yr
M-1/yr	0.2	1/yr	SSBmsy-MT (SSB)	4913	MT
NATMORT-1/yr	0.2	1/yr	MSY-MT (TB)	1366	MT
TB-AGE-yr			BH-h-dimless	0.8	dimless
F-AGE-yr			F_{2001}/F_{msy}	0.611	
M			SSB_{2001}/SSB_{msy}	1.141	
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 Central Western Pacific skipjack tuna (*Katsuwonus pelamis*)

Assessment ID:SPC-SKJCWPAC-1972-2007-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/15>

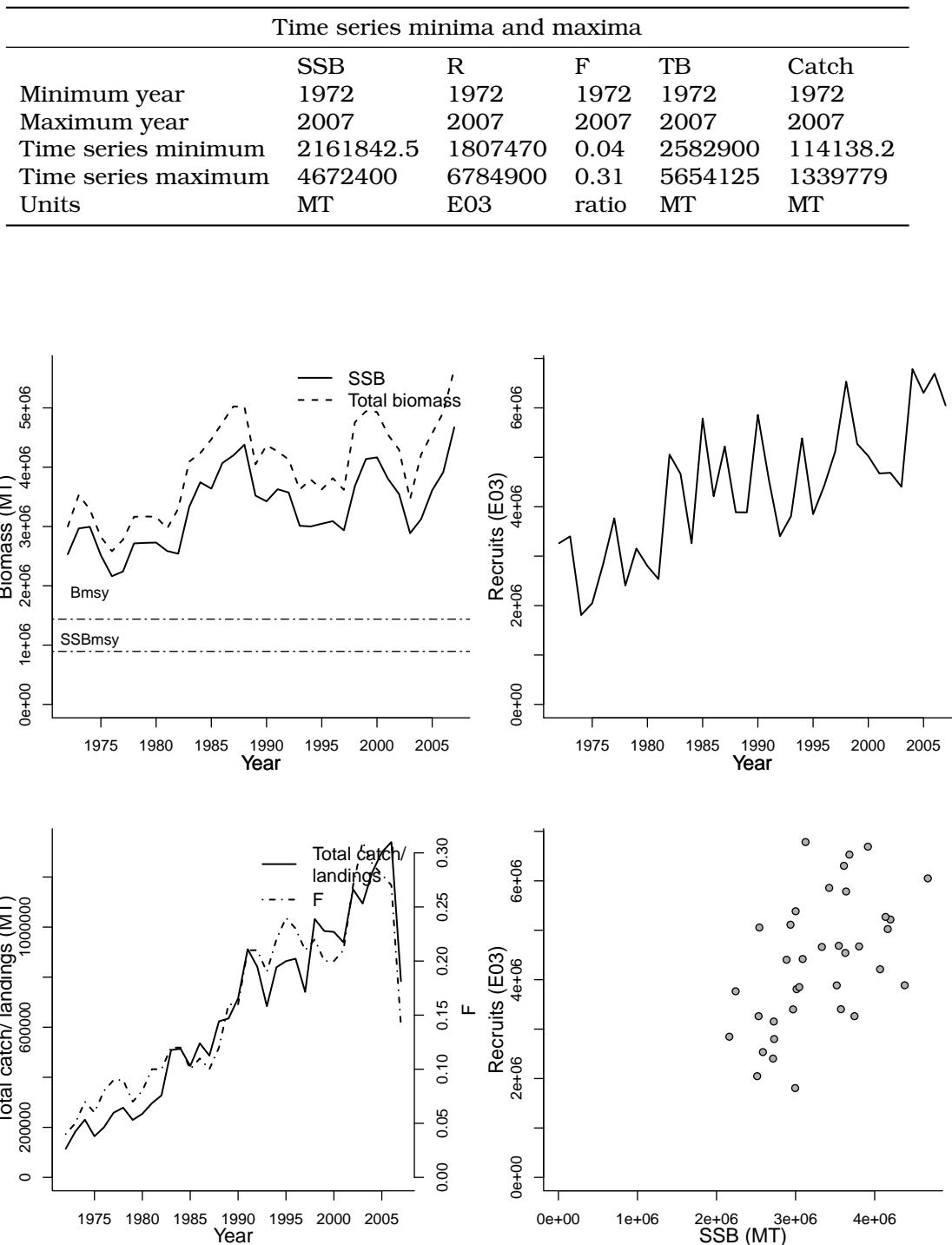
Area ID: USA-NMFS-CWPAC

General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	NULL
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	NULL
Timeseries span	1972-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-18
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
-99 - Pacific High Seas			na	na	
Parameter	Value	Units	Reference points		
A50-yr	0.3125	yr	Parameter	Value	Units
M-1/T	AVAILABLE	1/T	Bmsy-MT (TB)	1438000.00	MT
REC-AGE			Umsy-ratio (U)	0.8900	ratio
SSB-AGE-yr			MSY-MT (TB)	1279600.00	MT
TB-AGE-yr			SSBmsy-MT (SSB)	894200	MT
F-AGE-yr			TB_{2007}/B_{msy}	3.932	
M			SSB_{2007}/SSB_{msy}	5.225	
L50-cm					



Assessment of Central Western Pacific yellowfin tuna (*Thunnus albacares*)

Assessment ID:SPC-YFINCWPAC-1952-2006-JENSEN

Issue URL: <http://www.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/60>

Area ID: USA-NMFS-CWPAC

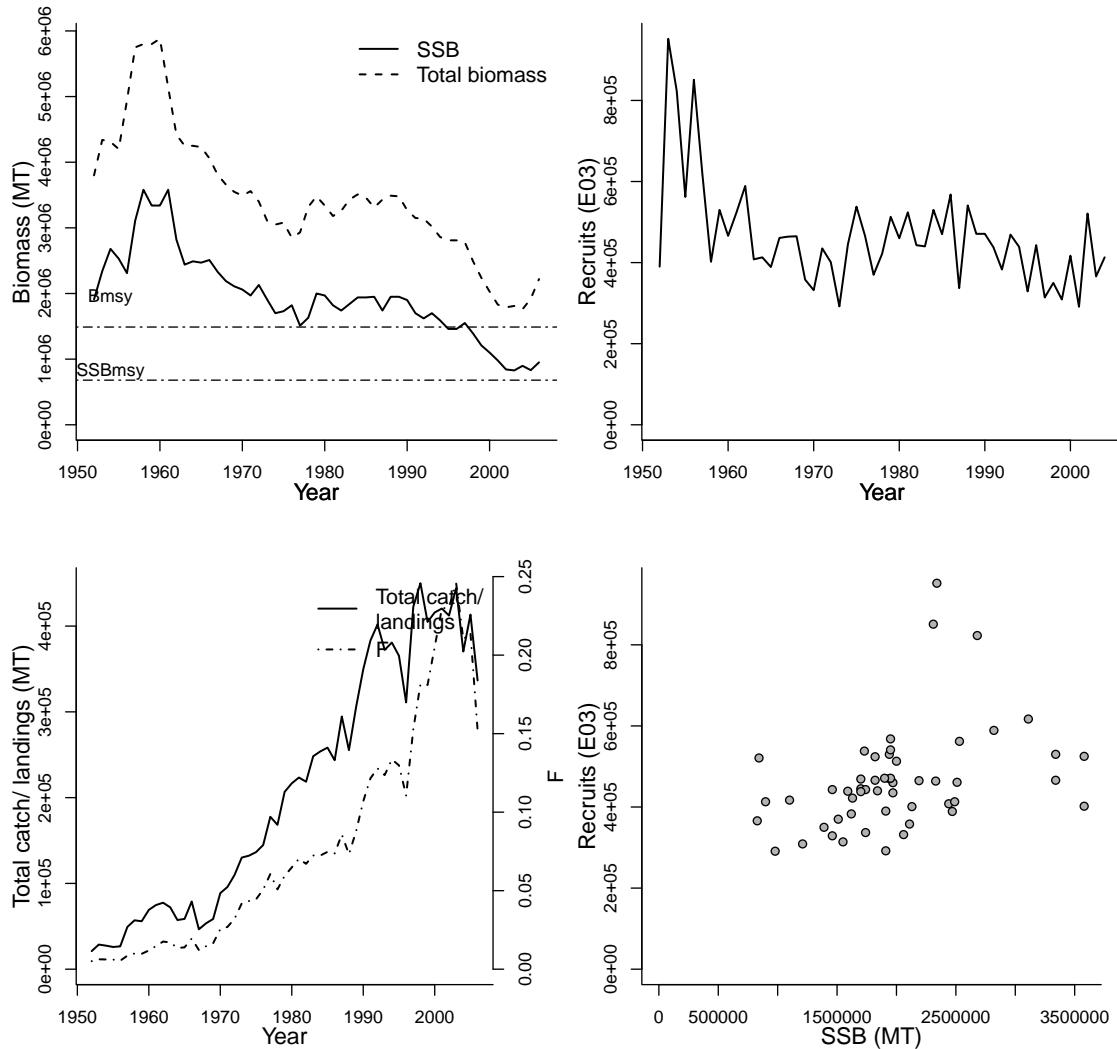
General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	NULL
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	NULL
Timeseries span	1952-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-18
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.

Parameter	Value	Units	primary LME	secondary LME	tertiary LME
			-99 - Pacific High Seas	na	na
A50-yr	2	yr			
M-1/T	AVAILABLE	1/T			
REC-AGE					
SSB-AGE-yr					
TB-AGE-yr					
F-AGE-yr					
M					
L50-cm					
Reference points					
Parameter	Value	Units	Bmsy-MT (TB)	1489000.00	MT
			Umsy-ratio (U)	0.27	ratio
			MSY-MT (TB)	400000.00	MT
			SSBmsy-MT (SSB)	679800.00	MT
			TB_{2006}/B_{msy}	1.491	
			SSB_{2006}/SSB_{msy}	1.399	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1952	1952	1952	1952
Maximum year	2006	2004	2006	2006
Time series minimum	828000	291000	0.0051	1760000
Time series maximum	3580000	952000	0.2458	5880000
Units	MT	E03	ratio	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

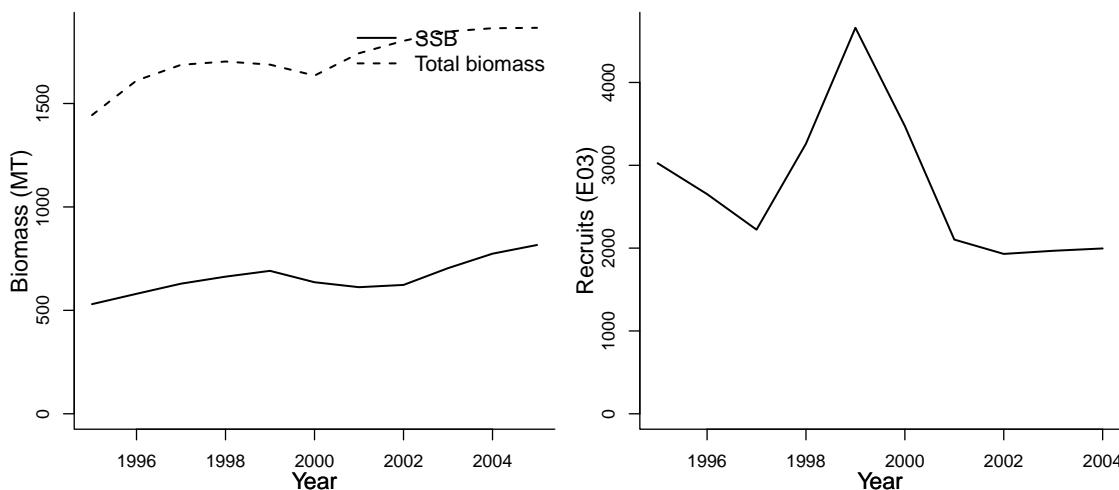
General assessment details.

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 not in database)
Recorder	STANTON
Date entered	2009-08-07
Date last loaded	2009-11-03
QA/QC complete	NO
Date approved	

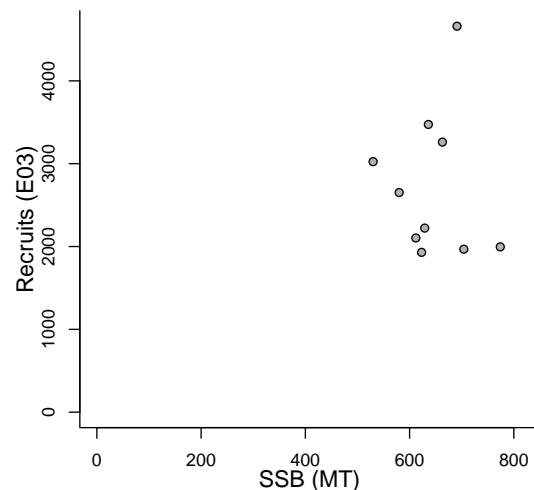
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME		tertiary LME			
3 - California Current			na	na				
Parameter	Value	Units	Reference points					
SSB-AGE-yr	2	yr	Parameter	Value	Units			
REC-AGE-yr	0	yr	NATMORT-1/yr (M)	0.25	1/yr			
TB-AGE-yr	2+	yr	MSY-MT (TB)	127	MT			
M-1/yr	0.25	1/yr	SSB0-MT (SSB)	1024	MT			
NATMORT-1/yr	0.25	1/yr	B0-MT	2007	MT			
F-AGE-yr			BH-h-dimless	0.7	dimless			
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	



No exploitation
data available



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

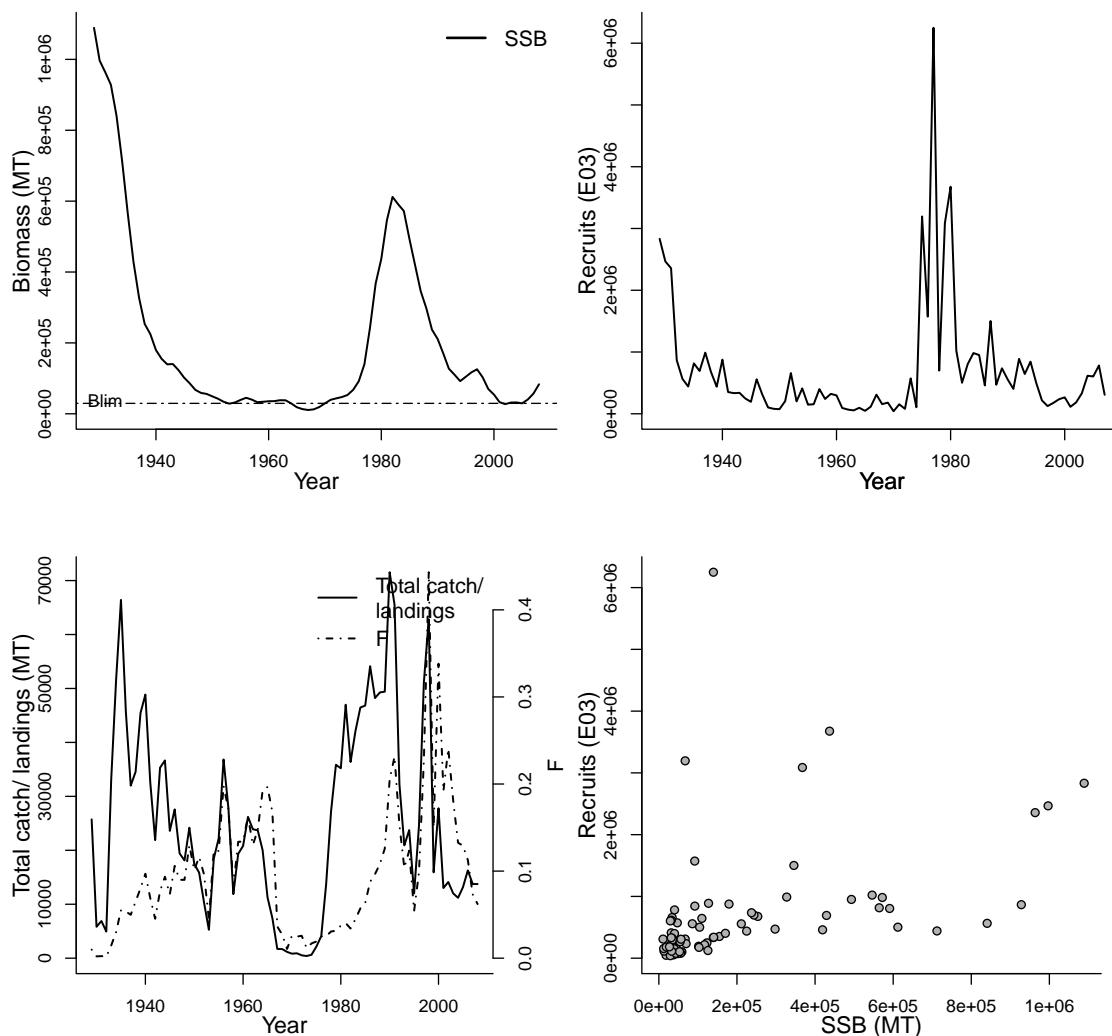
General assessment details.

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	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	
3 - California Current			na		na	
Parameter	Value	Units	Reference points			
SSB-AGE-yr	3+	yr	Parameter	Value	Units	
REC-AGE-yr	0	yr	NATMORT-1/yr (M)	0.5	1/yr	
TB-AGE-yr	1+	yr	MSY-MT (TB)	51772	MT	
M-1/yr	0.5	1/yr	Blim-MT (SSB)	29420	MT	
NATMORT-1/yr	0.5	1/yr	BH-h-dimless	0.315471	dimless	
F-AGE-yr			SSB ₂₀₀₈ /B _{lim}	2.827		
M						
A50-yr						
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

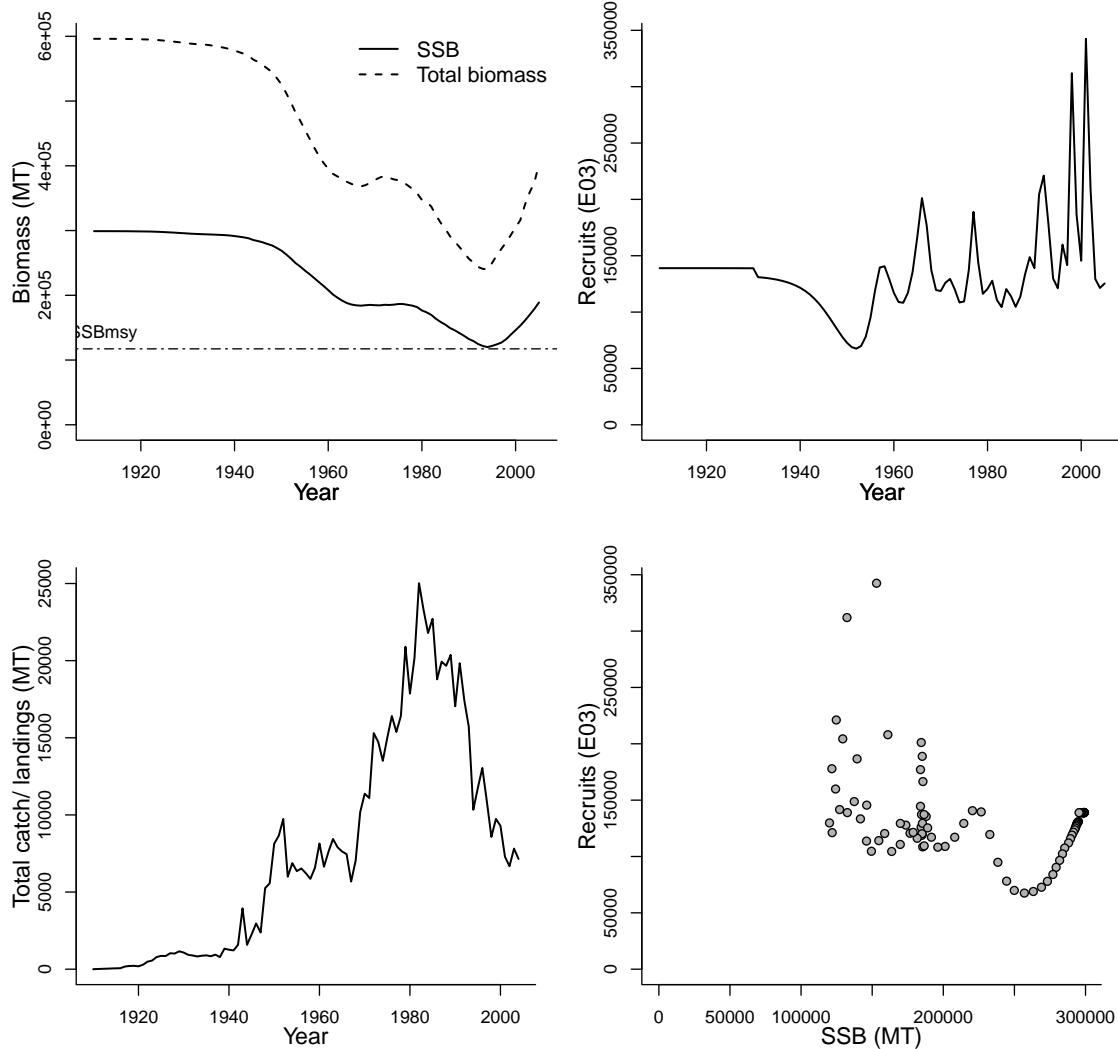
General assessment details.

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	Parameter	Reference points	
SSB-AGE-yr	5+	yr	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

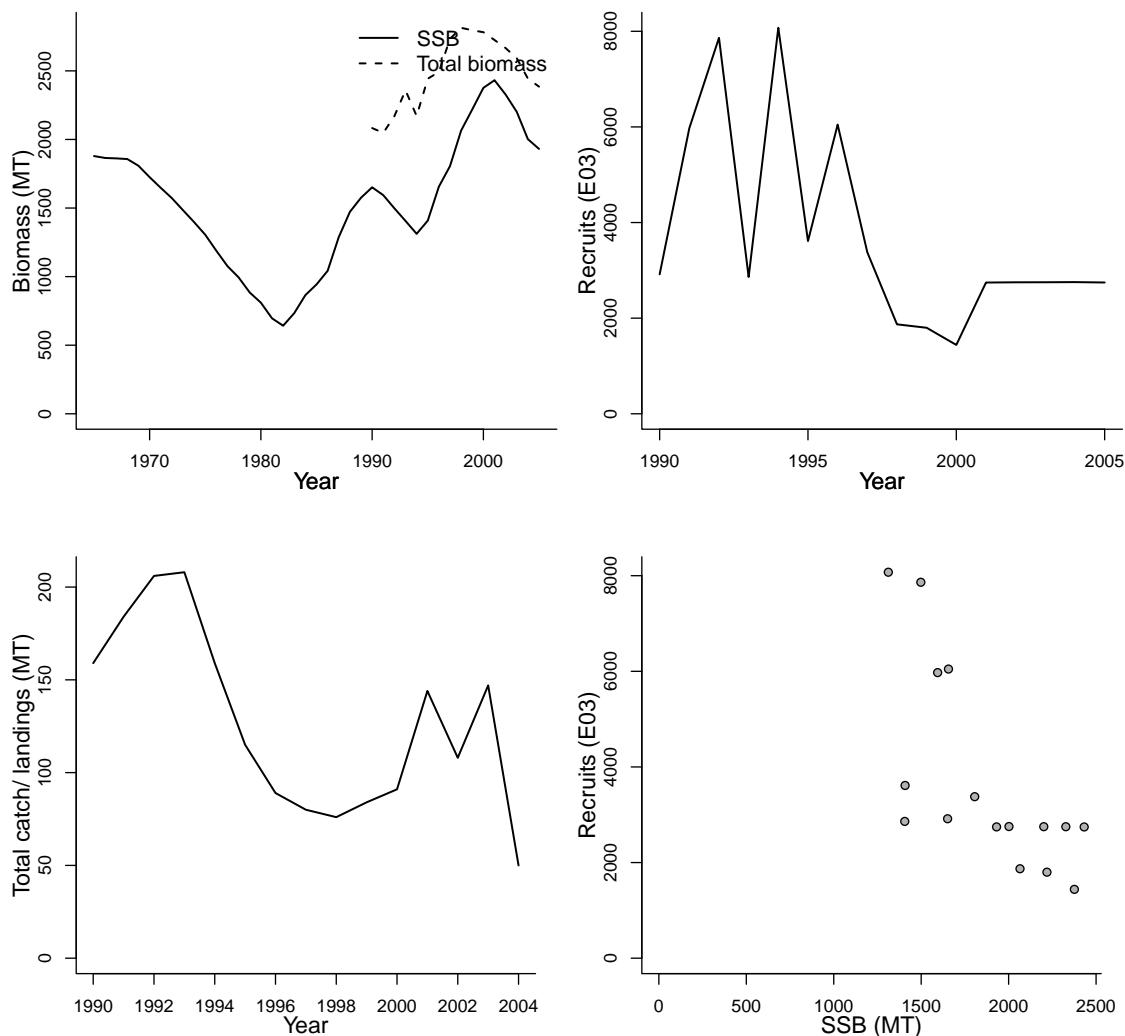
General assessment details.

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	2010-02-10
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	Parameter	Reference points	
SSB-AGE-yr	3+	yr	NATMORT-1/yr (M)	0.2	1/yr
REC-AGE-yr	0	yr	SSBmsy-MT (SSB)	758	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			SSBmsy-MT (SSB)	798	MT
A50-yr			BH-h-dimless	0.65	dimless
L50-cm			SSB_{2005}/SSB_{msy}	2.547	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1965	1990		1990	1990
Maximum year	2005	2005		2005	2004
Time series minimum	642	1440		2048	50
Time series maximum	2432	8073		2814	208
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

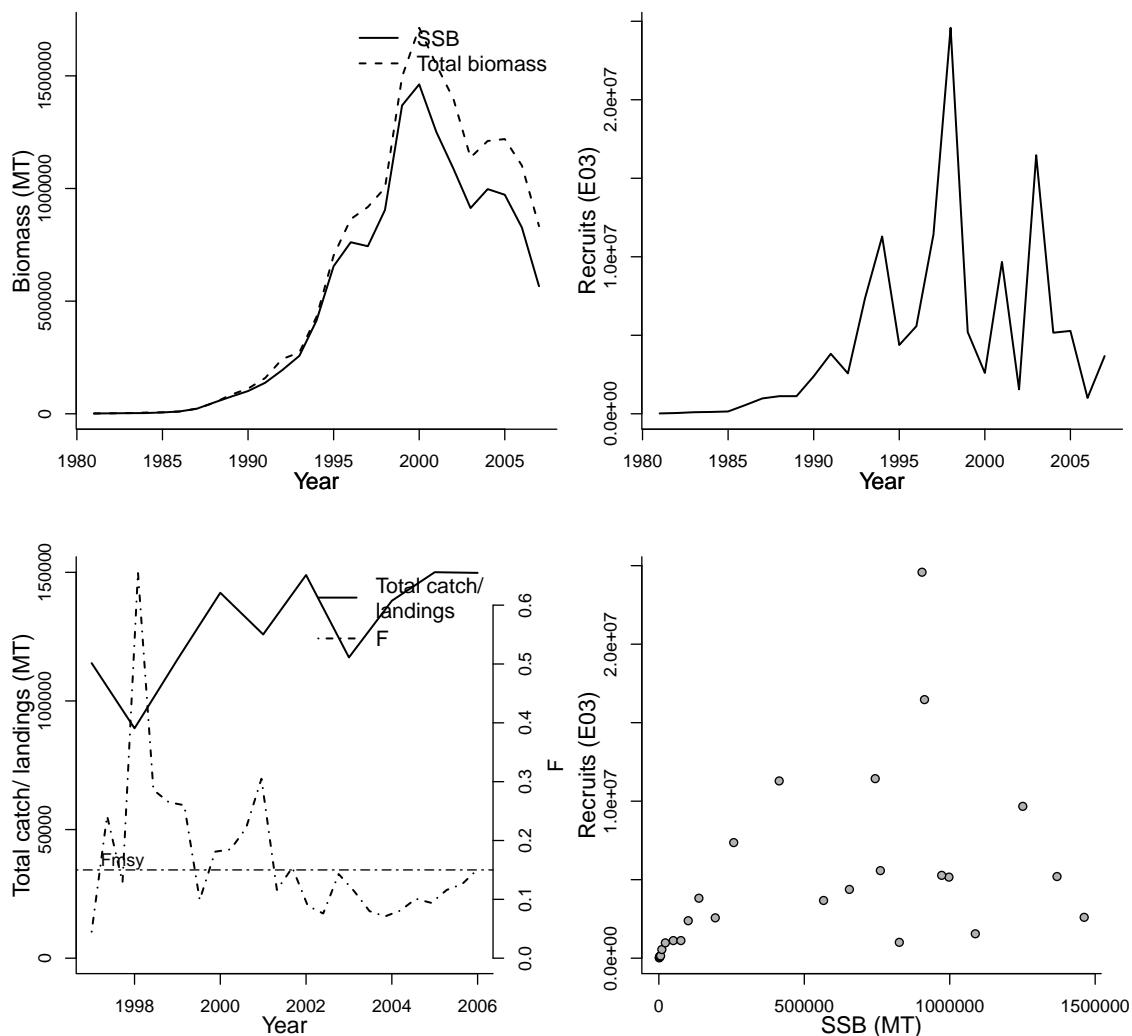
General assessment details.

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			
REC-AGE-yr	0	yr			
TB-AGE-yr	1+	yr	Reference points		
L50-cm	15.75	cm	Parameter	Value	Units
M-1/yr	0.4	1/yr	F _{msy} -1/yr (F)	0.15	1/yr
SSB-AGE-yr			F ₂₀₀₆ /F _{msy}	1.007	
F-AGE-yr					
M					
A50-yr					

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

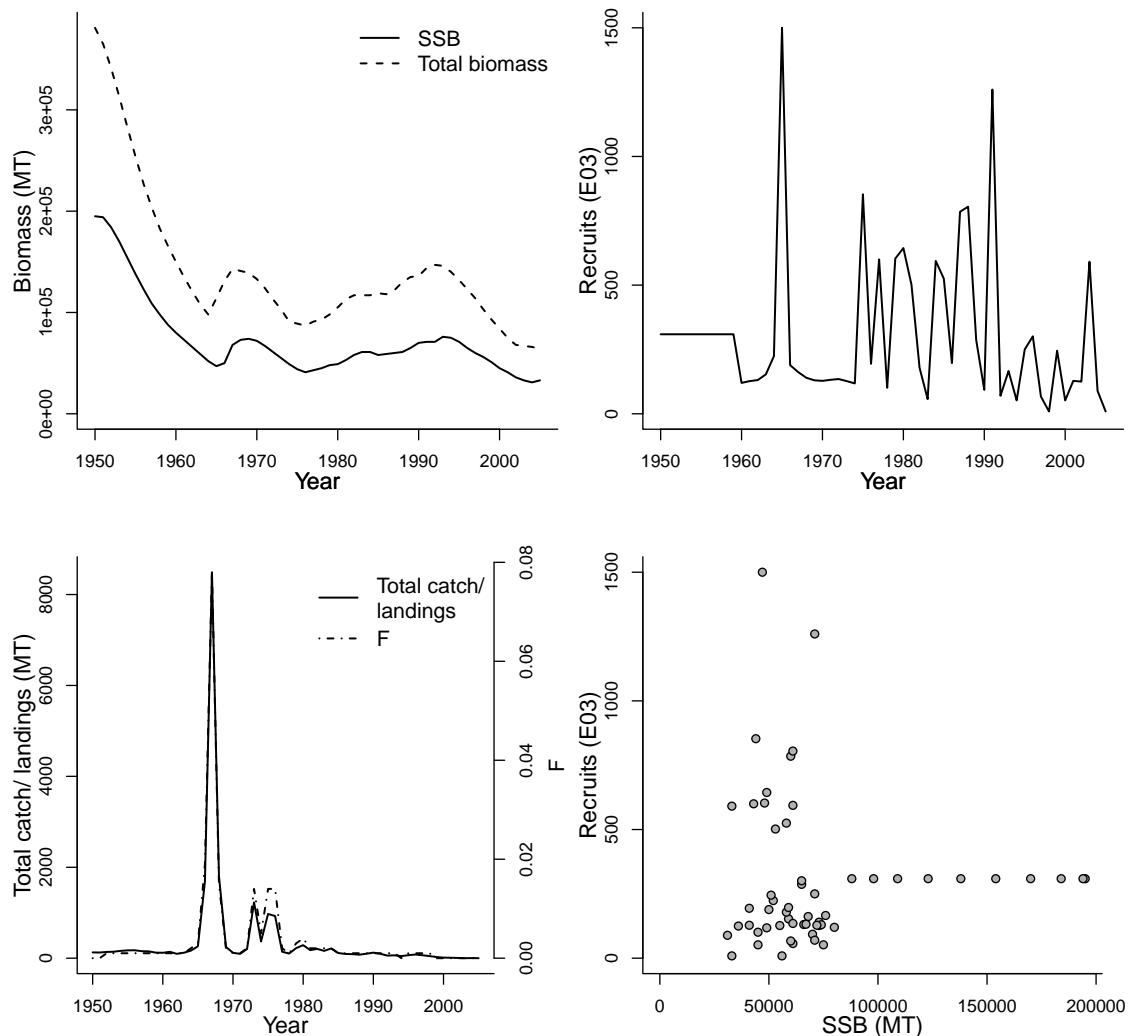
General assessment details.

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	2009-03-27
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			
REC-AGE-yr	0	yr	Parameter	Value	Units	
F-AGE-yr-yr	1+	yr-yr	R0-E03 (R)	309.248	E03	
TB-AGE-yr	1+	yr	BH-h-dimless	0.65	dimless	
M-1/yr	0.26	1/yr				
SSB-AGE-yr						
M						
A50-yr						
L50-cm						

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1950	1950	1950	1950	1950
Maximum year	2005	2005	2005	2005	2005
Time series minimum	31000	9	0	64000	0
Time series maximum	195000	1500	0.078	381000	8491
Units	MT	E03	1/yr	MT	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

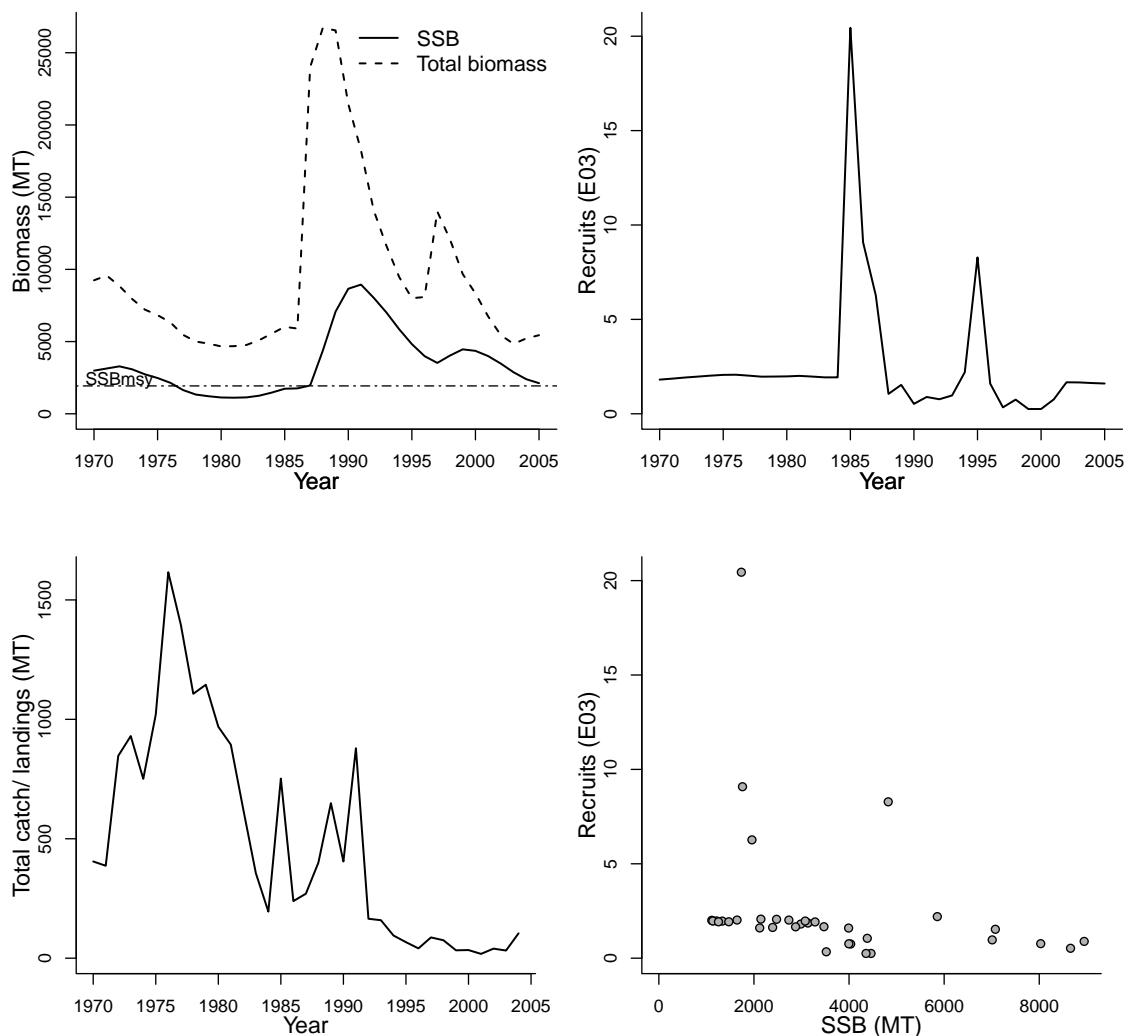
General assessment details.

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	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	Parameter	Reference points	
SSB-AGE-yr	3+	yr	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 ₂₀₀₅ /SSB _{msy}	1.099	
L50-cm					

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1970	1970		1970
Maximum year	2005	2005		2004
Time series minimum	1113	0.251		4667
Time series maximum	8945	20.445		26727
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.marinебiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/343>

Area ID: USA-NMFS-SPCOAST

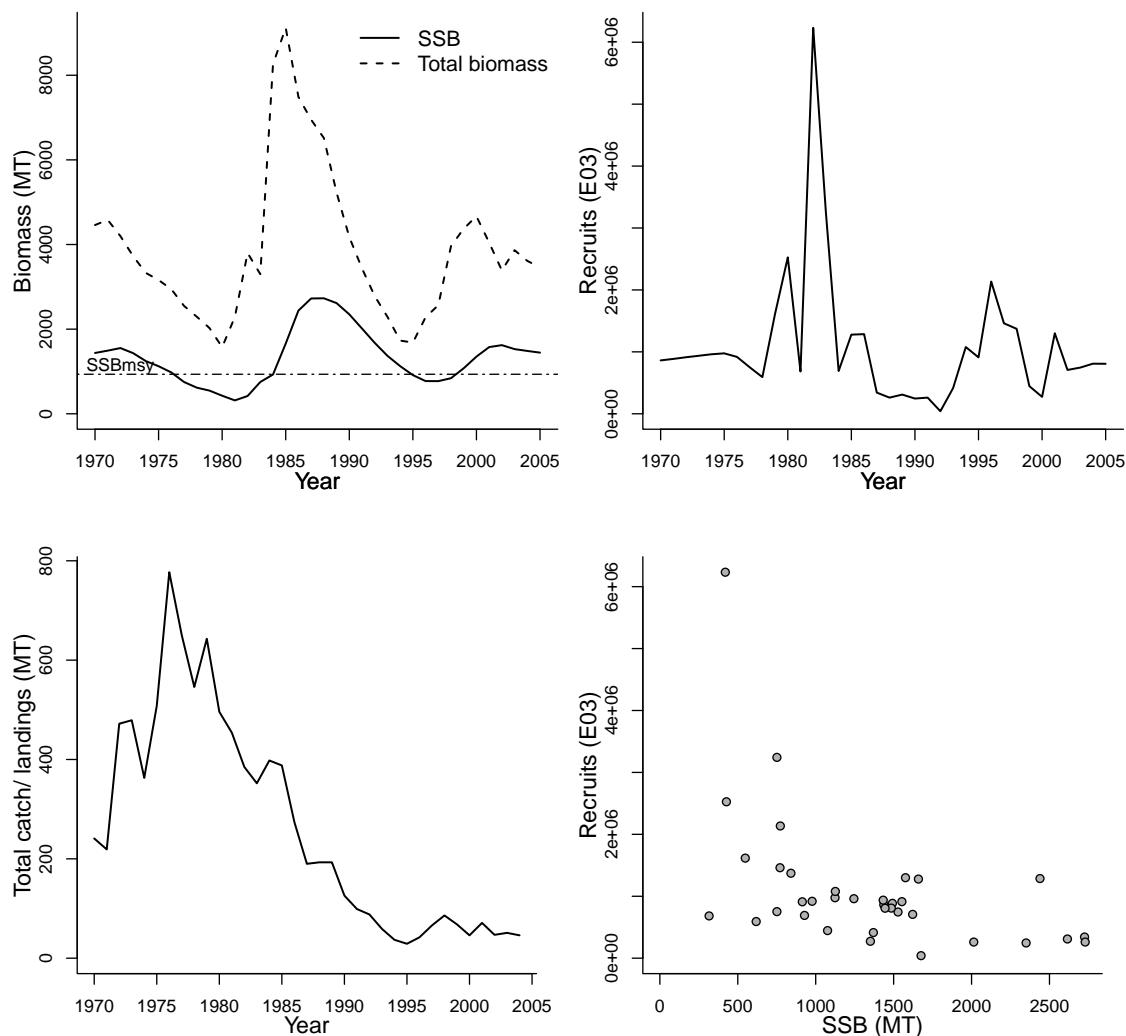
General assessment details.

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	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	3+	yr	Parameter	Value	Units	
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			BH-h-dimless	0.8	dimless	
L50-cm			SSB ₂₀₀₅ /SSB _{msy}	1.547		

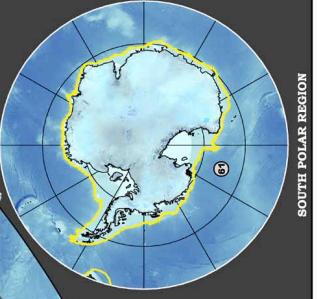
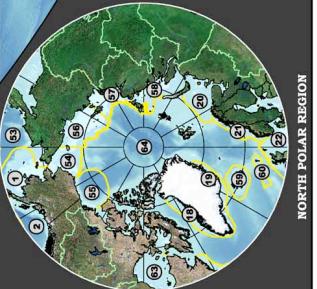
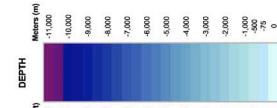
Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1970	1970		1970
Maximum year	2005	2005		2005
Time series minimum	316	41000		1574
Time series maximum	2729	6233000		9121
Units	MT	E03	MT	MT



Large Marine Ecosystems of the World and Linked Watersheds

P KEY:

• 228 •



LARGE MARINE ECOSYSTEMS are areas of the ocean characterized by distinct bathymetry, hydrography, productivity, and trophic interactions. They annually produce 95 percent of the world's fish catch. They are national and regional focal areas of a global effort to reduce the degradation of linked watersheds, marine resources, and coastal environments from pollution, habitat loss, and over-fishing.

For More Information Visit: www.edc.uri.edu/lme

NORTH POLAR REGION

(2-minute) : Smith and Sodtwell, 1997
 (5-minute) : NAVOCEANO, D2015
 (10-minute) : NOAA R & USGS Ero Data Center
 Political Boundaries : ESRI