Dear Colleague,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 23 of your assessments, and now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please follow the steps below to ensure that your assessments have been dutifully represented:

QA/QC steps

For each assessment:

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

QA/QC submission process

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

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

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

Contents

Assessment of Pacific Coast arrowtooth flounder (*Reinhardtius stomias*)

Assessment ID:NWFSC-ARFLOUNDPCOAST-1916-2007-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/22

Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Kaplan, I.C.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1916-2007
Document	NWFSC-ARFLOUNDPCOAST-2007-Arrowtooth flounder.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2009-04-27

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

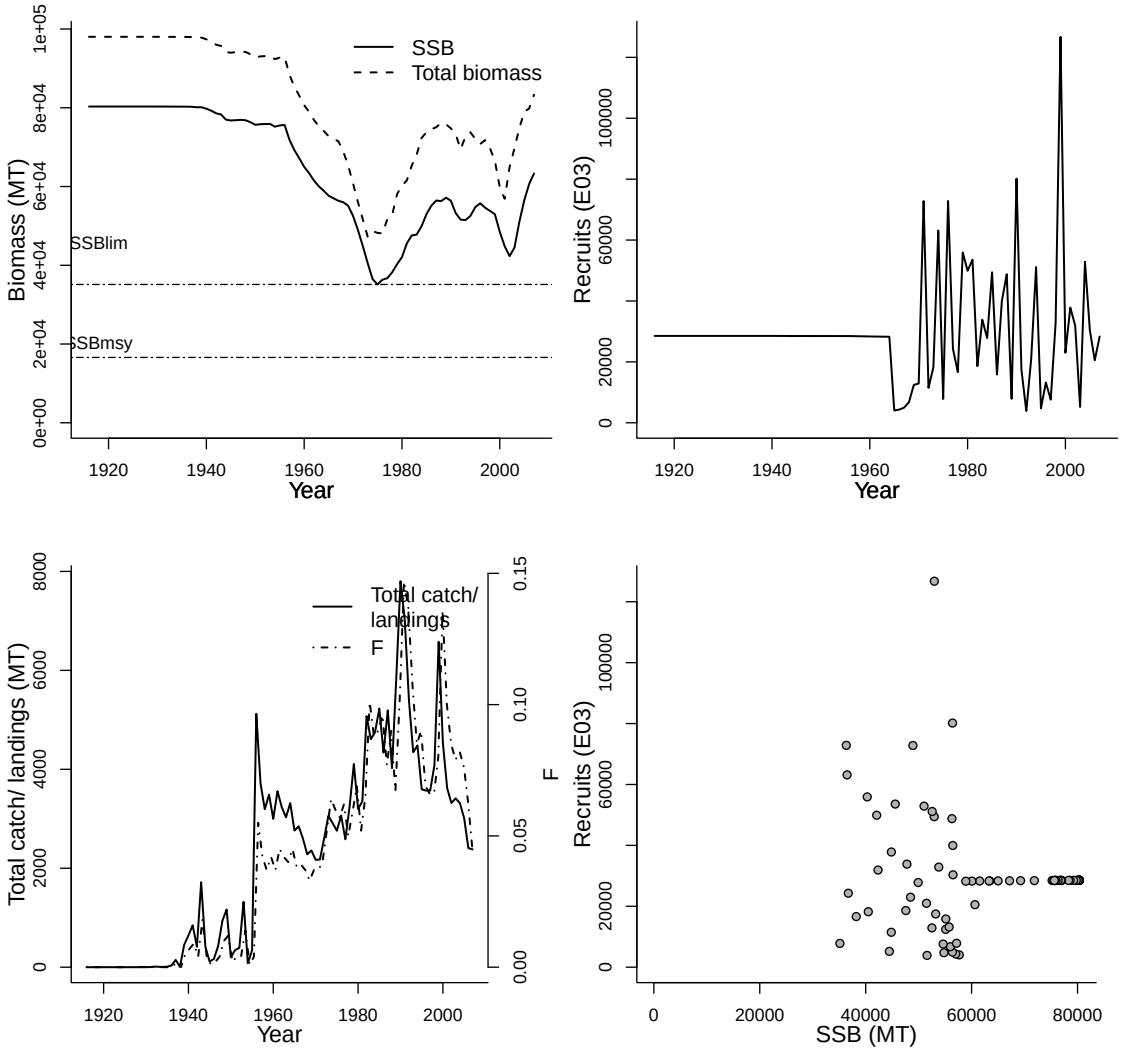
primary LME	secondary LME	tertiary LME
3 - California Current	2 - Gulf of Alaska	na

Parameter	Value	Units
SSB-AGE-yr	4.5	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	3+	yr-yr
TB-AGE-yr	3+	yr
L50-cm	37.3	cm
M-1/yr	0.166	1/yr
A50-yr	4.5	yr
M		

Reference points

Parameter	Value	Units
SSBlim-MT (SSB)	35129	MT
SSBmsy-MT (SSB)	16593	MT
Fmsy-1/yr (F)	0.21	1/yr
SSB0-MT (SSB)	80313	MT
R0-E03 (R)	28528	E03
SSBtarget-MT (SSB)	30780	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.11	1/yr
SPRtarget-ratio (SPR)	0.4	ratio
MSY-MT (TB)	5844	MT
BH-h-dimless	0.902	dimless
SSB_{2007}/SSB_{lim}	1.802	
F_{2006}/F_{msy}	0.210	
SSB_{2007}/SSB_{msy}	3.815	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1916	1916	1916	1916	1916
Maximum year	2007	2007	2006	2007	2007
Time series minimum	35128.8	3867.56	0	47228.2	0
Time series maximum	80313.5	126747	0.147	98022.2	7802
Units	MT	E03	1/yr	MT	MT



Assessment of Pacific Coast blackgill rockfish (*Sebastes 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	

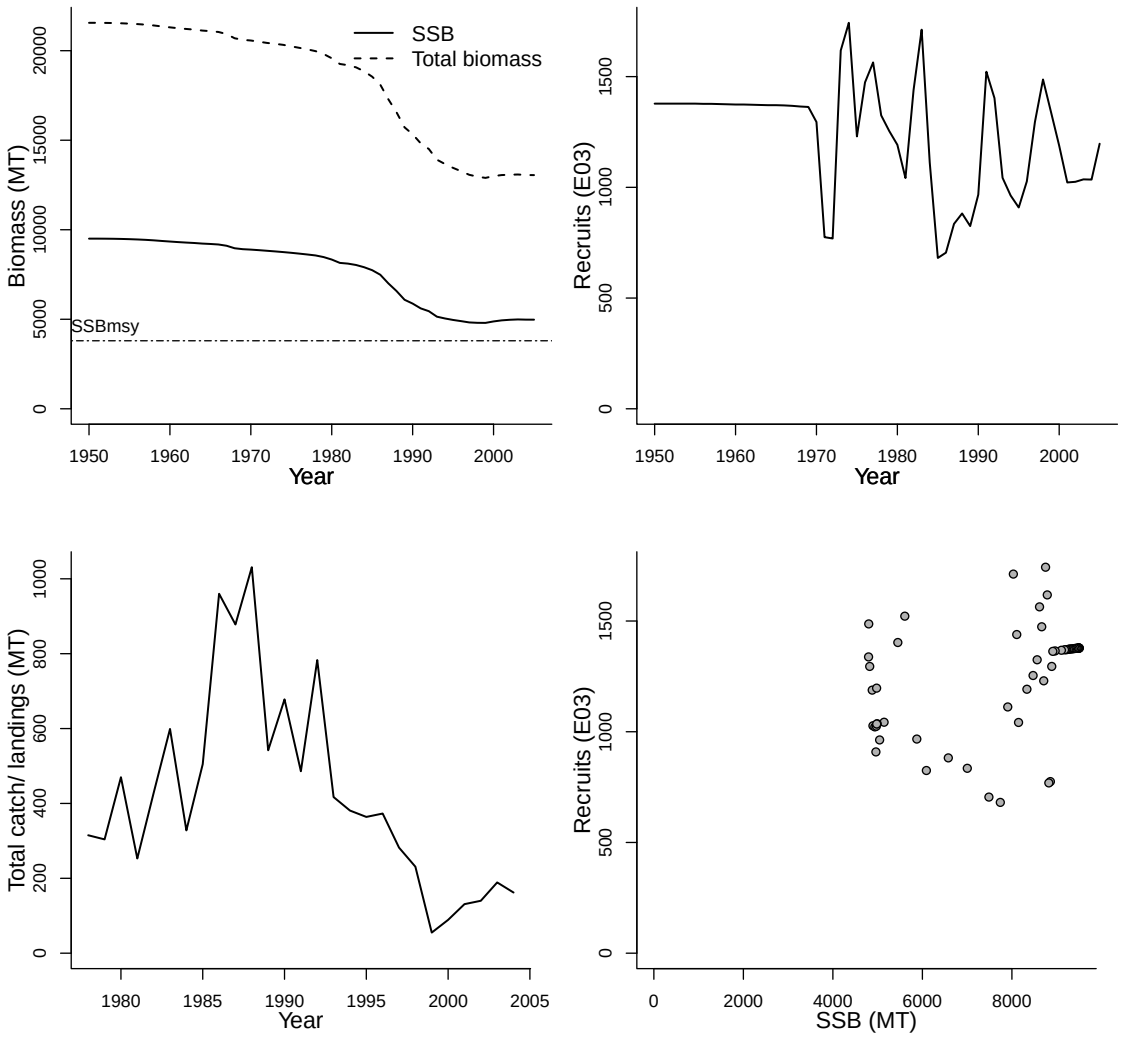
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	0+	yr-yr
TB-AGE-yr	0+	yr
A50-yr	20	yr
SSB-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSBmsy-MT (SSB)	3799	MT
MSY-MT (TB)	223	MT
Umsy-ratio (U)	0.029	ratio
SSB0-MT (SSB)	9.503	MT
B0-MT	21558	MT
SSB_{2005}/SSB_{msy}	1.310	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1950	1950		1950	1978
Maximum year	2005	2005		2005	2004
Time series minimum	4797	681		12896	55
Time series maximum	9503	1743		21558	1031
Units	MT	E03		MT	MT



Assessment of Northern Pacific Coast black rockfish (*Sebastes melanops*)

Assessment ID:NWFSC-BLACKROCKNPCOAST-1914-2006-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/38

Area ID: USA-NMFS-NPCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Wallace F.R.
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1914-2006
Document	NWFSC-BLACKROCKNPCOAST-2007-Black rockfish NOR WA.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-20
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2009-04-27

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

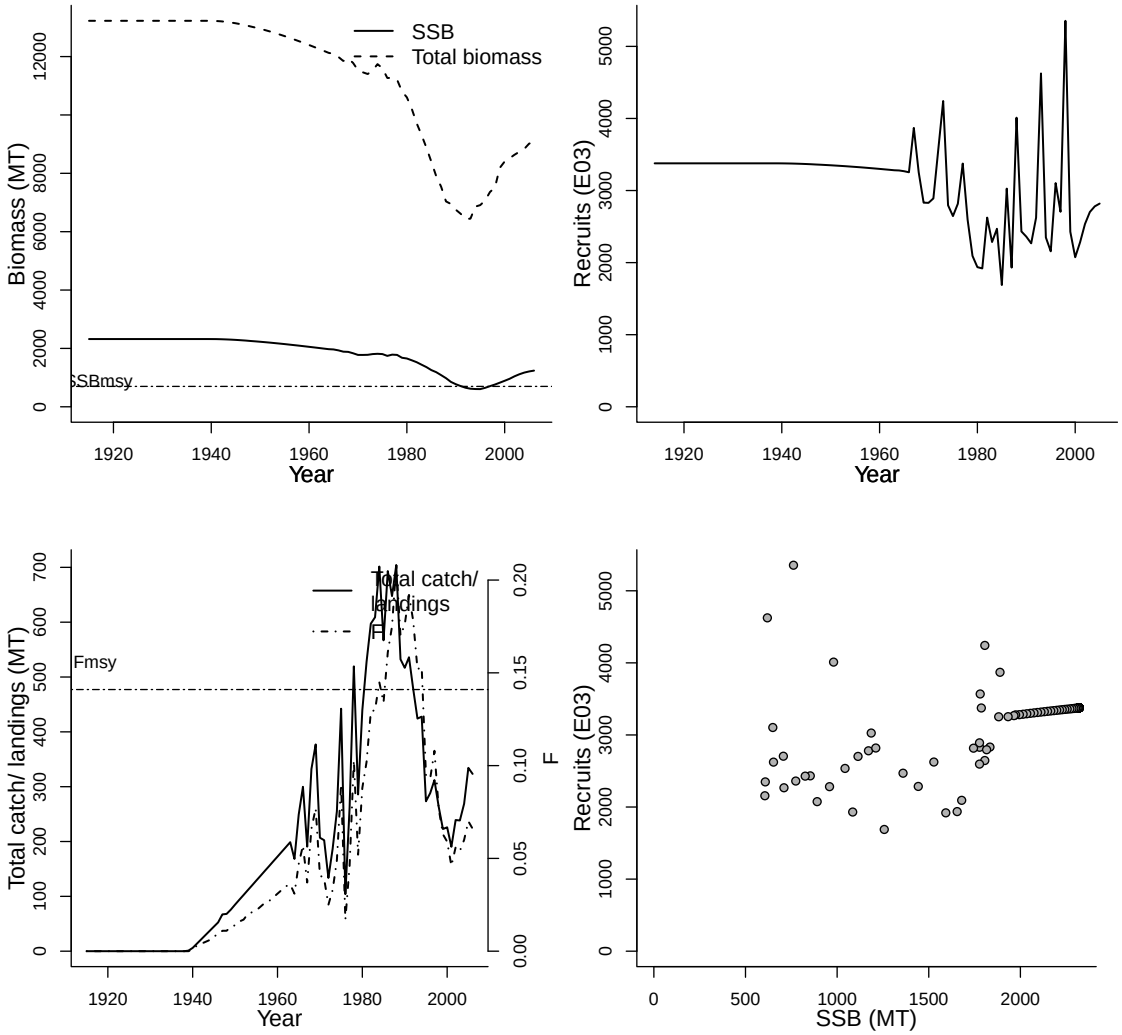
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-AGE-yr	10.31	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	3+	yr-yr
TB-AGE-yr	0+	yr
L50-cm	43.7	cm
M-1/yr	0.16	1/yr
A50-yr	10.31	yr
M		

Reference points

Parameter	Value	Units
BH-h-dimless	0.6	dimless
SSBlim-E06larvae	606	E06larvae
SSBmsy-E06lar (SSB)	698.62	E06larvae
Fmsy-1/yr (F)	0.141	1/yr
SSB0-MT (SSB)	2321	MT
R0-E03 (R)	3377	E03
SSBtarget-MT (SSB)	928.4	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.065	1/yr
SPRtarget-ratio (SPR)	0.4	ratio
MSY-MT (TB)	700	MT
SSB_{2006}/SSB_{lim}	2.045	
F_{2006}/F_{msy}	0.468	
SSB_{2006}/SSB_{msy}	1.774	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1915	1914	1915	1915	1915
Maximum year	2006	2005	2006	2006	2006
Time series minimum	605.66	1688.87	0	6437	0
Time series maximum	2320.71	5354.79	0.208	13226	703.9
Units	MT	E03	1/yr	MT	MT



Assessment of Southern Pacific Coast black rockfish (*Sebastes melanops*)

Assessment ID:NWFSC-BLACKROCKSPCOAST-1915-2007-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/37

Area ID: USA-NMFS-SPCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Sampson, D.B.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1915-2007
Document	NWFSC-BLACKROCKSPCOAST-2007-Black rockfish OR CA.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2009-05-01

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

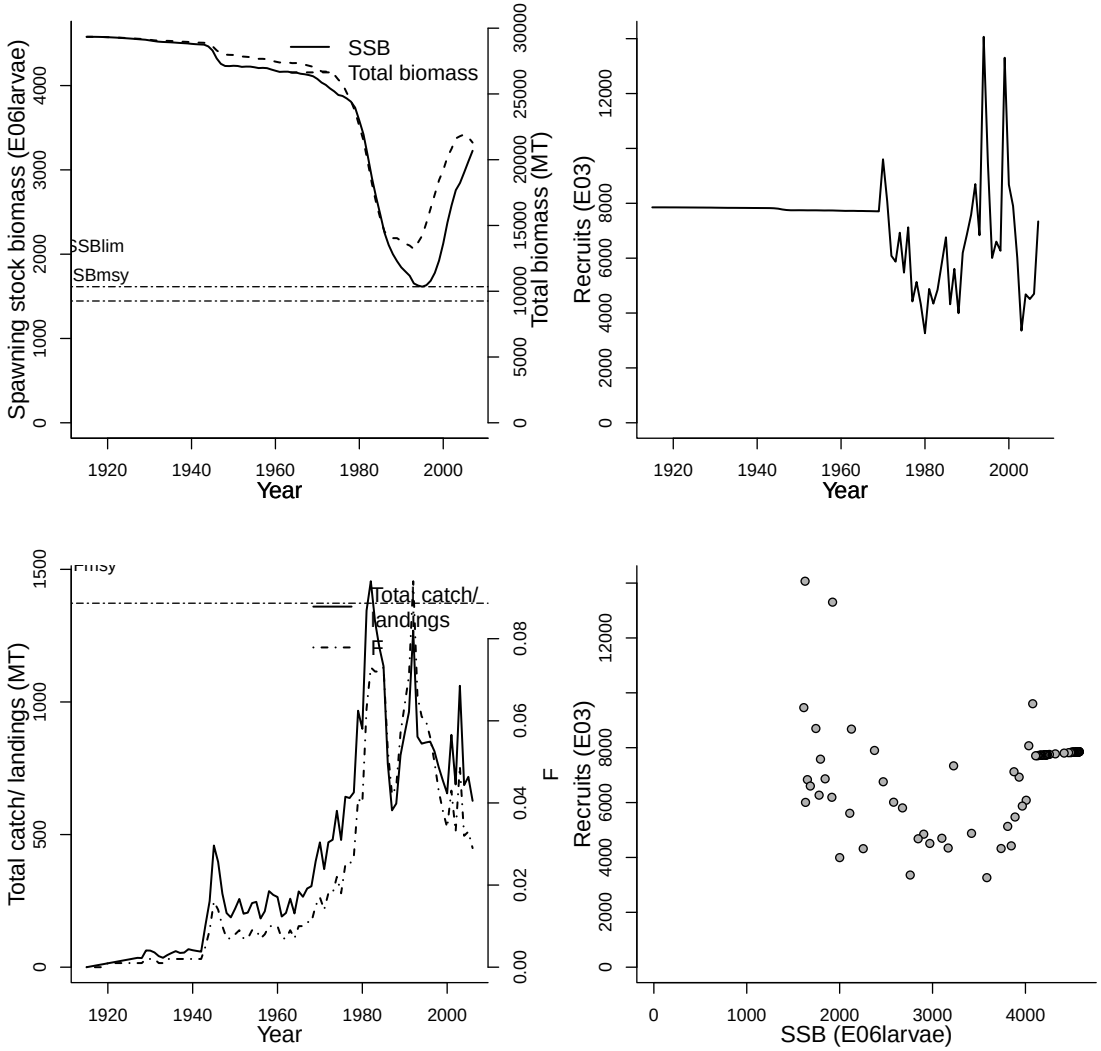
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-AGE-yr	7.1	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	2+	yr-yr
TB-AGE-yr	0+	yr
L50-cm	39.53	cm
M-1/yr	0.16	1/yr
A50-yr	7.1	yr
M		

Reference points

Parameter	Value	Units
BH-h-dimless	0.6	dimless
SSBlim-MT (SSB)	1614	MT
SSBmsy-E06lar (SSB)	1444.6	E06larvae
Fmsy-1/yr (F)	0.08864	1/yr
SSB0-E06lar (SSB)	4578	E06larvae
R0-E03 (R)	7852	E03
SSBtarget-MT (SSB)	1831.4	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.07227	1/yr
SPRtarget-ratio (SPR)	0.5	ratio
MSY-MT (TB)	1064.6	MT
SSB_{2007}/SSB_{lim}	1.999	
F_{2006}/F_{msy}	0.327	
SSB_{2007}/SSB_{msy}	2.233	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1915	1915	1915	1915	1915
Maximum year	2007	2007	2006	2007	2006
Time series minimum	1614.2	3264	0	13206	0
Time series maximum	4578.5	14068	0.094	29344	1455.3
Units	E06larvae	E03	1/yr	MT	MT



Assessment of California blue rockfish (*Sebastes mystinus*)

Assessment ID:NWFSC-BLUEROCKCAL-1916-2007-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/39

Area ID: USA-NMFS-CAL

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Key, M
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1916-2007
Document	NWFSC-BLUEROCKCAL-2007-Blue rockfish CA.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-21
Date last loaded	2009-06-02
QA/QC complete	YES
Date approved	2009-06-02

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

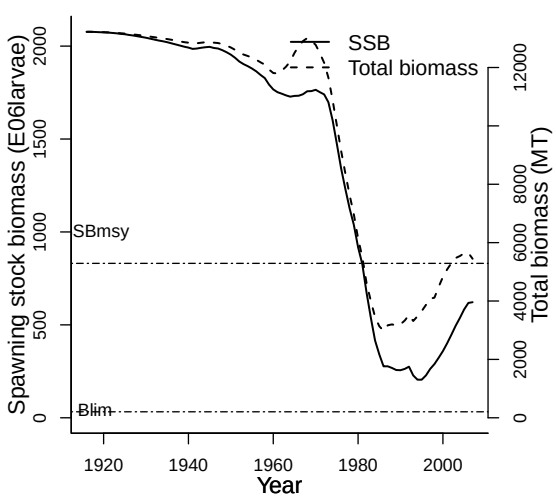
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

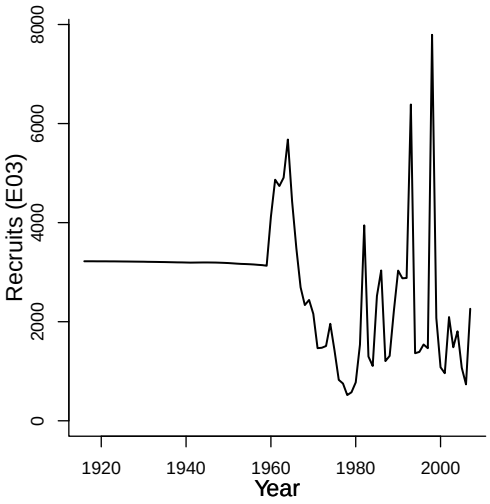
Parameter	Value	Units
SSB-AGE-yr	6+	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	1+	yr-yr
TB-AGE-yr	1+	yr
L50-cm	29	cm
M-1/yr	0.12	1/yr
A50-yr	6	yr
M		

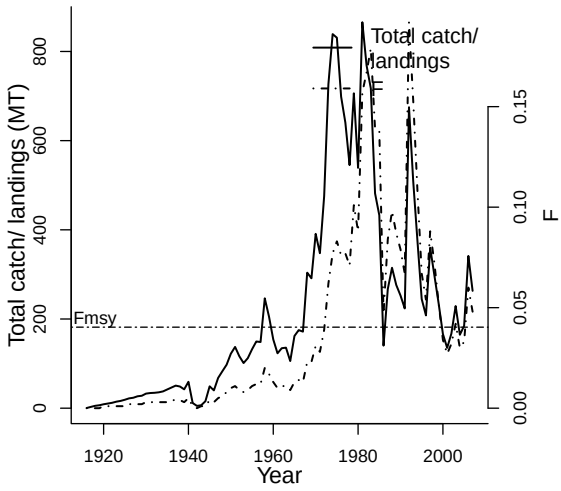
Reference points

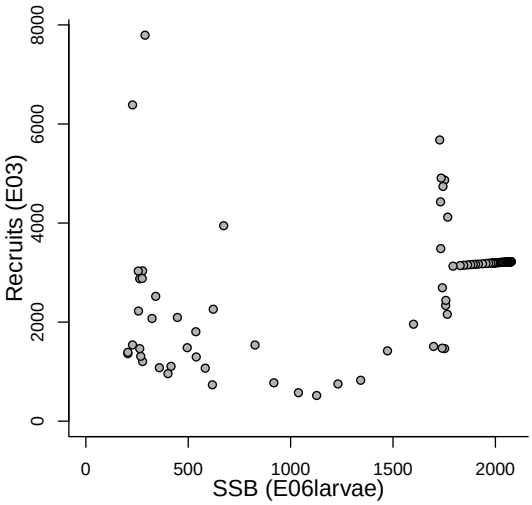
Parameter	Value	Units
Blim-MT (TB)	205	MT
SSBmsy-E06lar (SSB)	831	E06larvae
Fmsy-1/yr (F)	0.0403	1/yr
SSB0-MT (SSB)	2077	MT
R0-E03 (R)	3220	E03
SSBtarget-E06lar (SSB)	831	E06larvae
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.0403	1/yr
SPRtarget-ratio (SPR)	0.5	ratio
MSY-MT (TB)	275	MT
B0-MT	13223	MT
BH-h-dimless	0.58	dimless
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-BOCACCSPCOAST-1951-2006-BRANCH
Issue URL: http://www.marinebiodiversity.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-BOCACCSPCOAST-2007 Bocaccio.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2010-03-19
QA/QC complete	YES
Date approved	2010-03-19

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

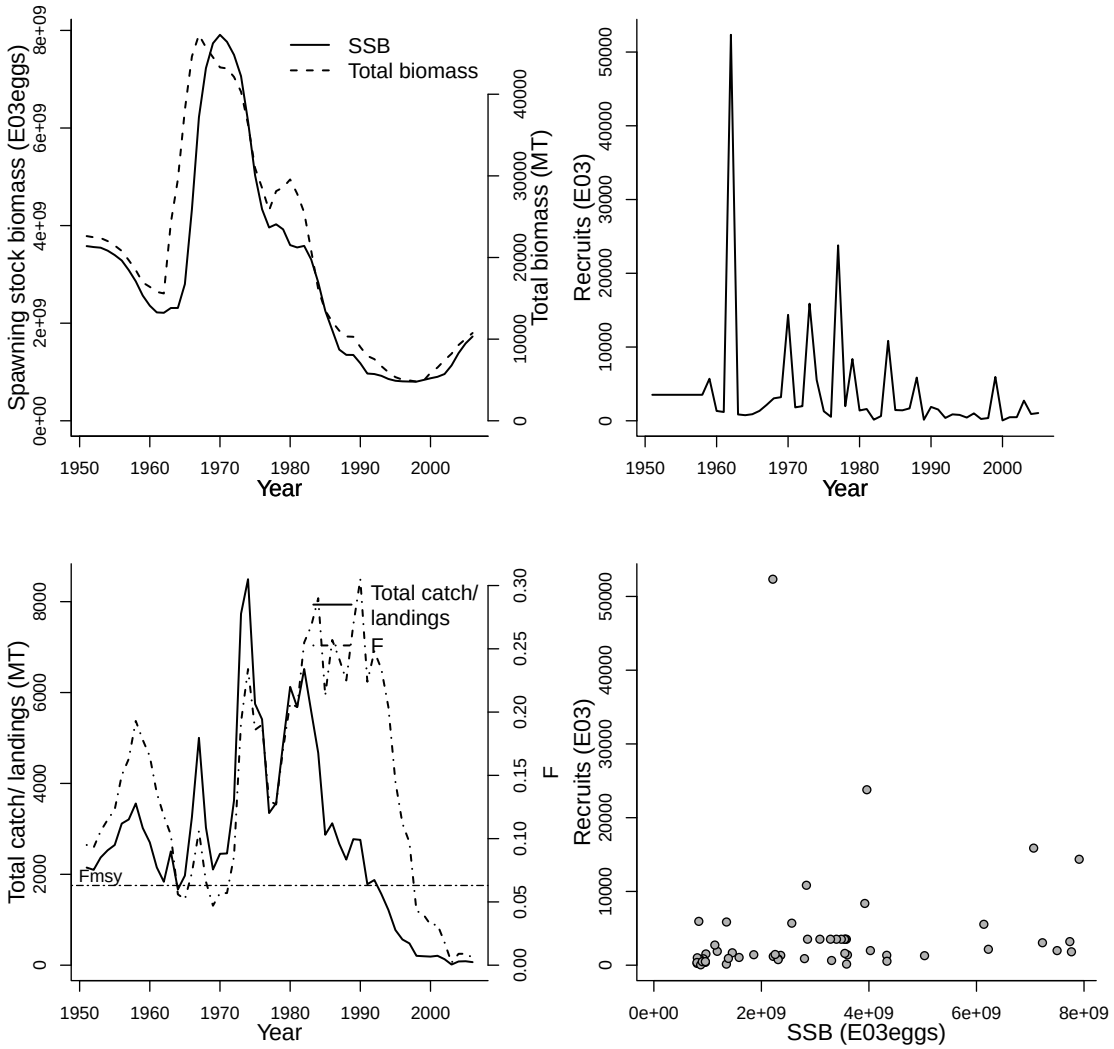
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	1+	yr-yr
TB-AGE-yr	1+	yr
M-1/yr	0.15	1/yr
SSB-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
Fmsy-1/yr (F)	0.063	1/yr
R0-E03 (R)	5449	E03
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.063	1/yr
SPRtarget-ratio (SPR)	0.5	ratio
MSY-MT (TB)	1974	MT
SSBmsy-E03eggs	5429000000	E03eggs
SSB0-E03eggs	13572000000	E03eggs
SSBtarget-E03eggs	5429000000	E03eggs
BH-h-dimless	0.44	dimless
SSBlim-E03eggs	802000000	E03eggs
SSB_{2006}/SSB_{lim}	2.153	
F_{2006}/F_{msy}	0.095	
SSB_{2006}/SSB_{msy}	0.318	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1951	1951	1951	1951	1951
Maximum year	2006	2005	2006	2006	2006
Time series minimum	802000000	50	0.002	4796	14
Time series maximum	7910000000	52337	0.305	47280	8494
Units	E03eggs	E03	1/yr	MT	MT



Assessment of Southern Pacific Coast chilipepper (*Sebastes goodei*)

Assessment ID:NWFSC-CHILISPCOAST-1892-2007-BRANCH
Issue URL: http://www.marinebiodiversity.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.

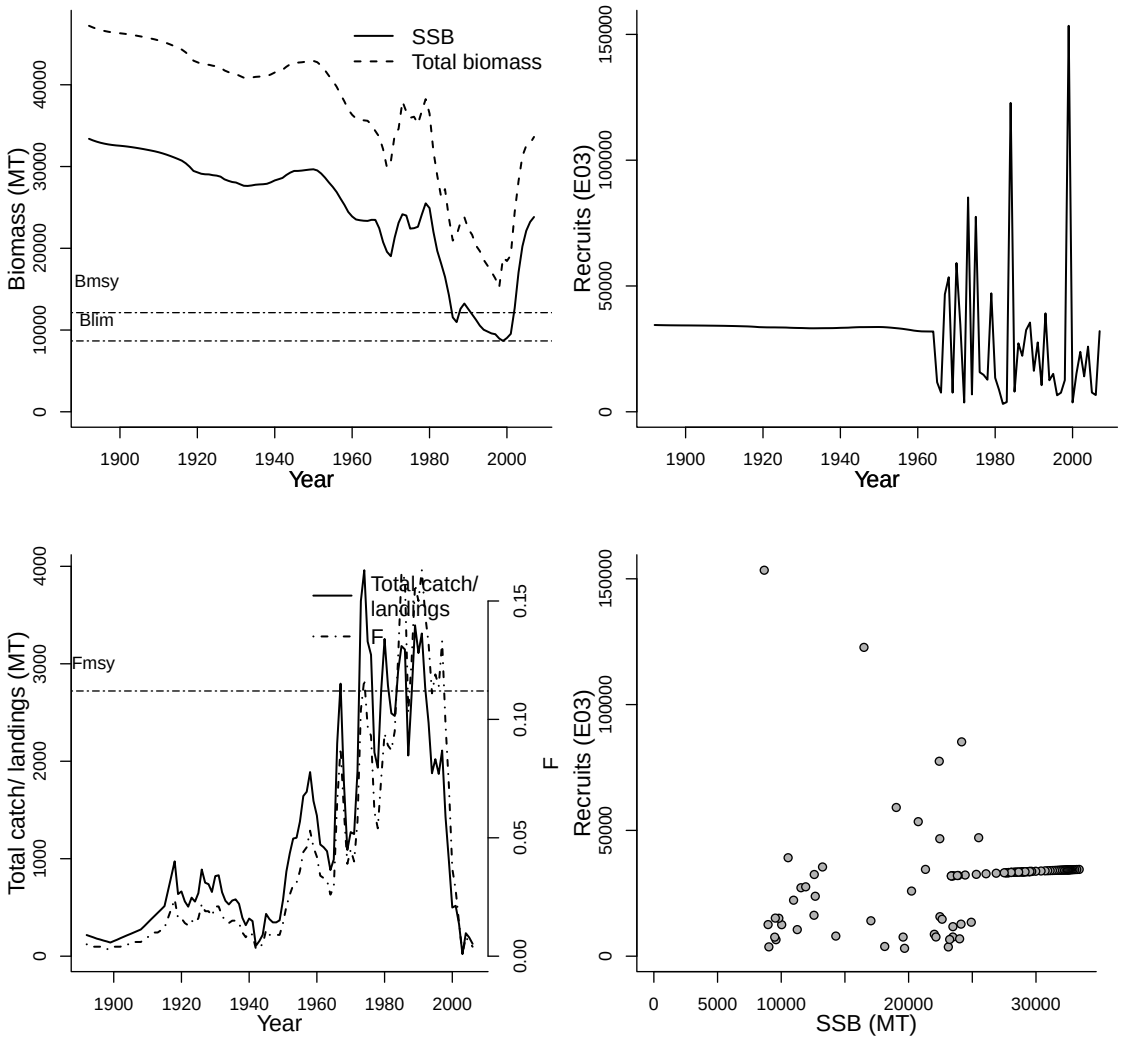
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	1-80	yr-yr
TB-AGE-yr	0+	yr
M-1/yr	0.16	1/yr
SSB-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
Blim-MT (TB)	8666	MT
Bmsy-MT (TB)	12126	MT
Fmsy-1/yr (F)	0.112	1/yr
SSB0-MT (SSB)	33390	MT
R0-E03 (R)	34490	E03
SSBtarget-MT (SSB)	21034	MT
SSBmin-ratio (SSB)	0.25	ratio
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
TB_{2007}/B_{msy}	2.772	
F_{2006}/F_{msy}	0.036	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1892	1892	1892	1892	1892
Maximum year	2007	2007	2006	2007	2006
Time series minimum	8666	3130	0.001	15209	21
Time series maximum	33391	153415	0.163	47214	3960
Units	MT	E03	1/yr	MT	MT



Assessment of Southern California cowcod (*Sebastes levis*)

Assessment ID:NWFSC-COWCODSCAL-1900-2007-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/40

Area ID: USA-NMFS-SCAL

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Dick EJ
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1900-2007
Document	NWFSC-COWCODSCAL-2007-Cowcod CA.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-21
Date last loaded	2009-06-02
QA/QC complete	YES
Date approved	2009-06-02

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

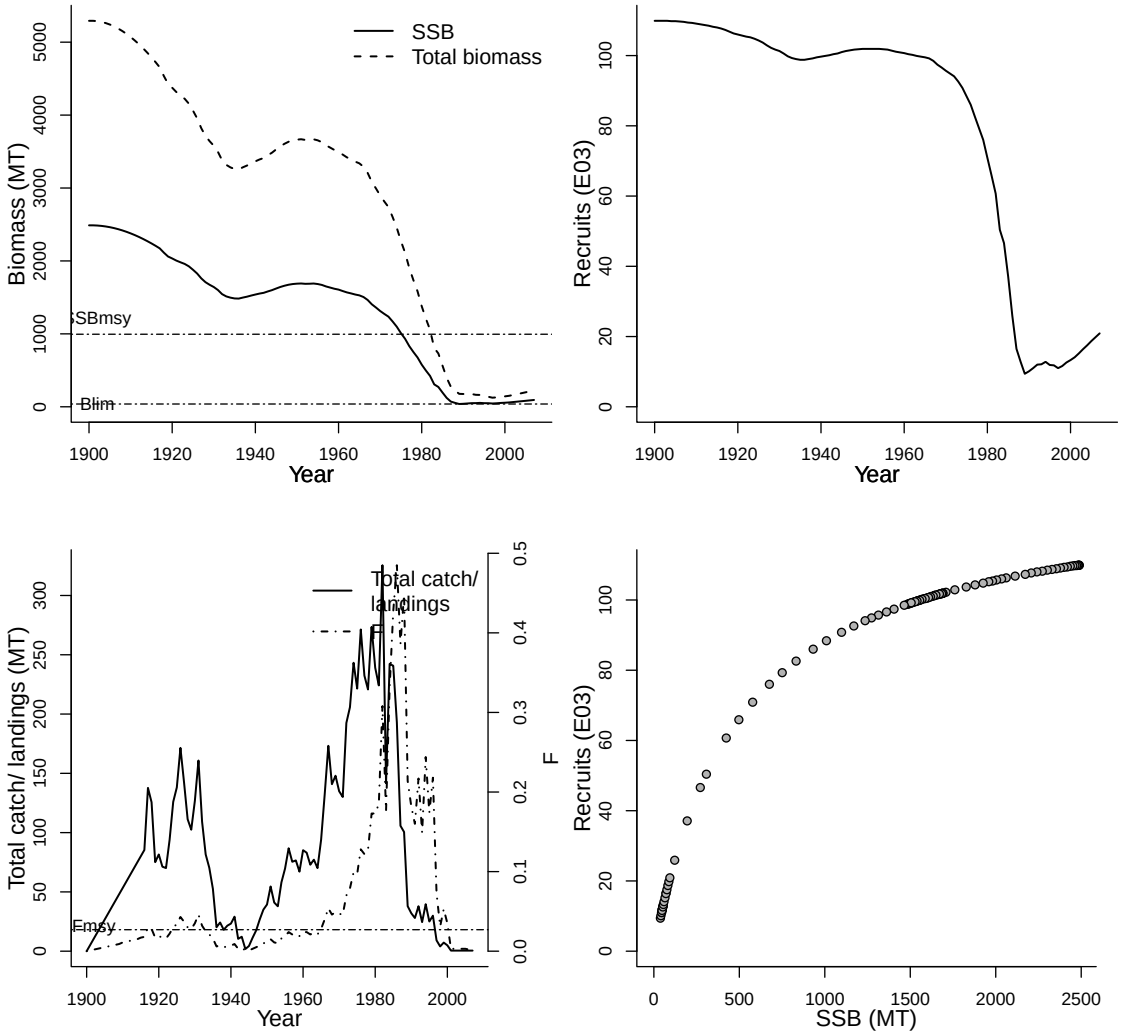
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-AGE-yr	11+	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	1+	yr-yr
TB-AGE-yr	1+	yr
M-1/yr	0.055	1/yr
A50-yr	11	yr
L50-cm	43	cm
M		

Reference points

Parameter	Value	Units
Blim-MT (TB)	38	MT
SSBmsy-MT (SSB)	995	MT
Fmsy-1/yr (F)	0.027	1/yr
SSB0-MT (SSB)	2488	MT
R0-E03 (R)	109.9	E03
SSBtarget-MT (SSB)	995	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.027	1/yr
SPRtarget-ratio (SPR)	0.4	ratio
MORATOR-yr-yr	2001-present	yr-yr
B0-MT	5291	MT
BH-h-dimless	0.6	dimless
F_{2007}/F_{msy}	0.074	
SSB_{2007}/SSB_{msy}	0.094	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1900	1900	1900	1900	1900
Maximum year	2007	2007	2007	2007	2007
Time series minimum	38.3	9.4	0	124.6	0.01
Time series maximum	2488.1	109.9	0.485	5293.1	325.54
Units	MT	E03	1/yr	MT	MT



Assessment of Pacific Coast canary rockfish (*Sebastes pinniger*)

Assessment ID:NWFSC-CROCKPCOAST-1916-2007-BRANCH
Issue URL: http://www.marinebiodiversity.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.

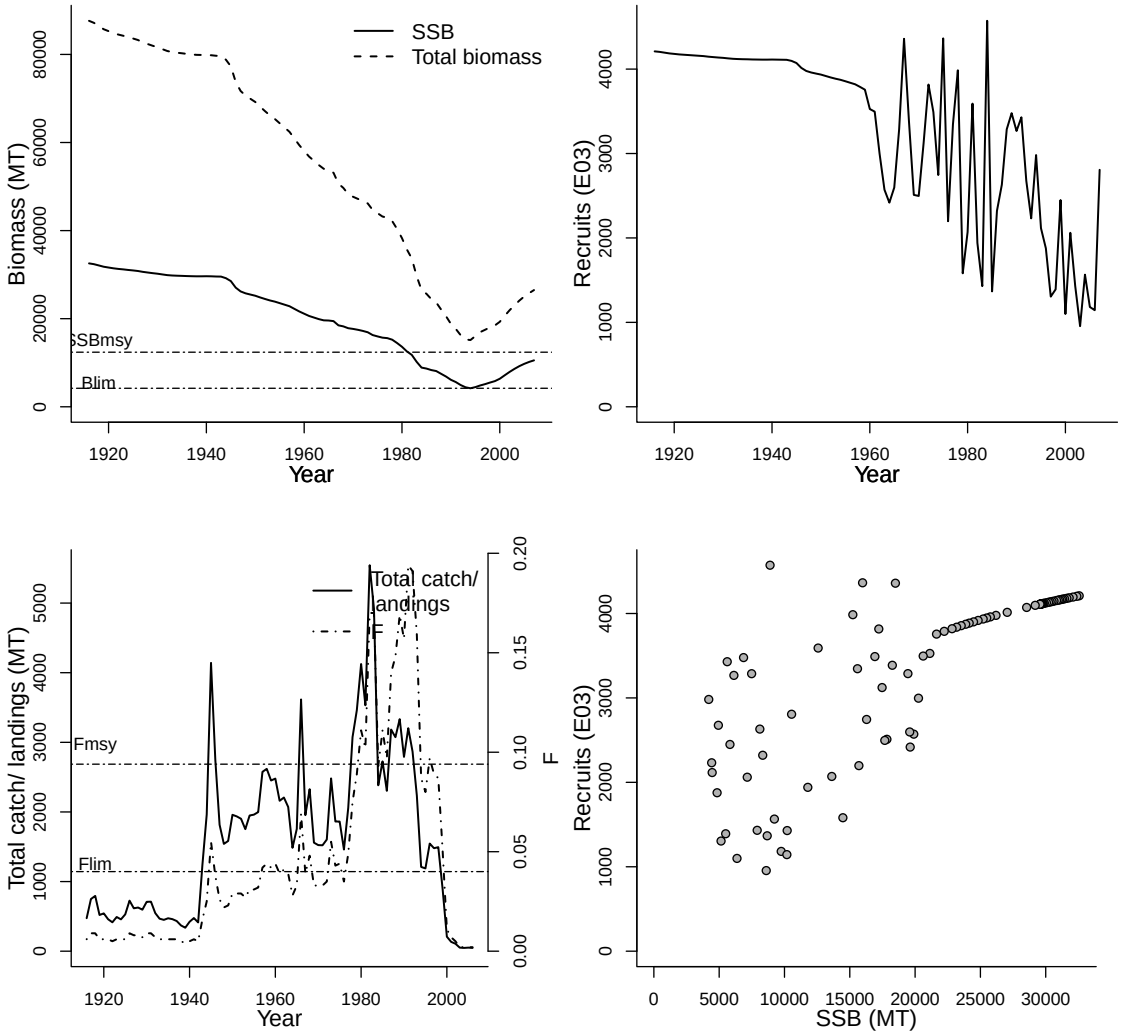
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	5-35	yr-yr
TB-AGE-yr	0	yr
L50-cm	40.5	cm
M-1/T	0.06	1/T
SSB-AGE-yr		
M		
A50-yr		

Reference points

Parameter	Value	Units
Blim-MT (TB)	4202	MT
SSBmsy-MT (SSB)	12394	MT
Flim-1/yr (F)	0.04	1/yr
Fmsy-1/yr (F)	0.094	1/yr
SSB0-MT (SSB)	32561	MT
R0-E03 (R)	4210	E03
SSBtarget-MT (SSB)	13041	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.04	1/yr
SPRtarget-ratio (SPR)	0.5	ratio
MSY-MT (TB)	1169	MT
BH-h-dimless	0.511	dimless
F_{2006}/F_{lim}	0.050	
F_{2006}/F_{msy}	0.021	
SSB_{2007}/SSB_{msy}	0.851	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1916	1916	1916	1916	1916
Maximum year	2007	2007	2006	2007	2006
Time series minimum	4202	955	0.002	15147	47
Time series maximum	32561	4572	0.194	87633	5544
Units	MT	E03	1/yr	MT	MT



Assessment of Pacific Coast darkblotched rockfish (*Sebastes crameri*)

Assessment ID:NWFSC-DKROCKPCOAST-1928-2007-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/43

Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Hamel OS
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1928-2007
Document	NWFSC-DKROCKPCOAST-2008-Darkblotched rockfish.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2010-03-05
QA/QC complete	YES
Date approved	2009-04-27

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

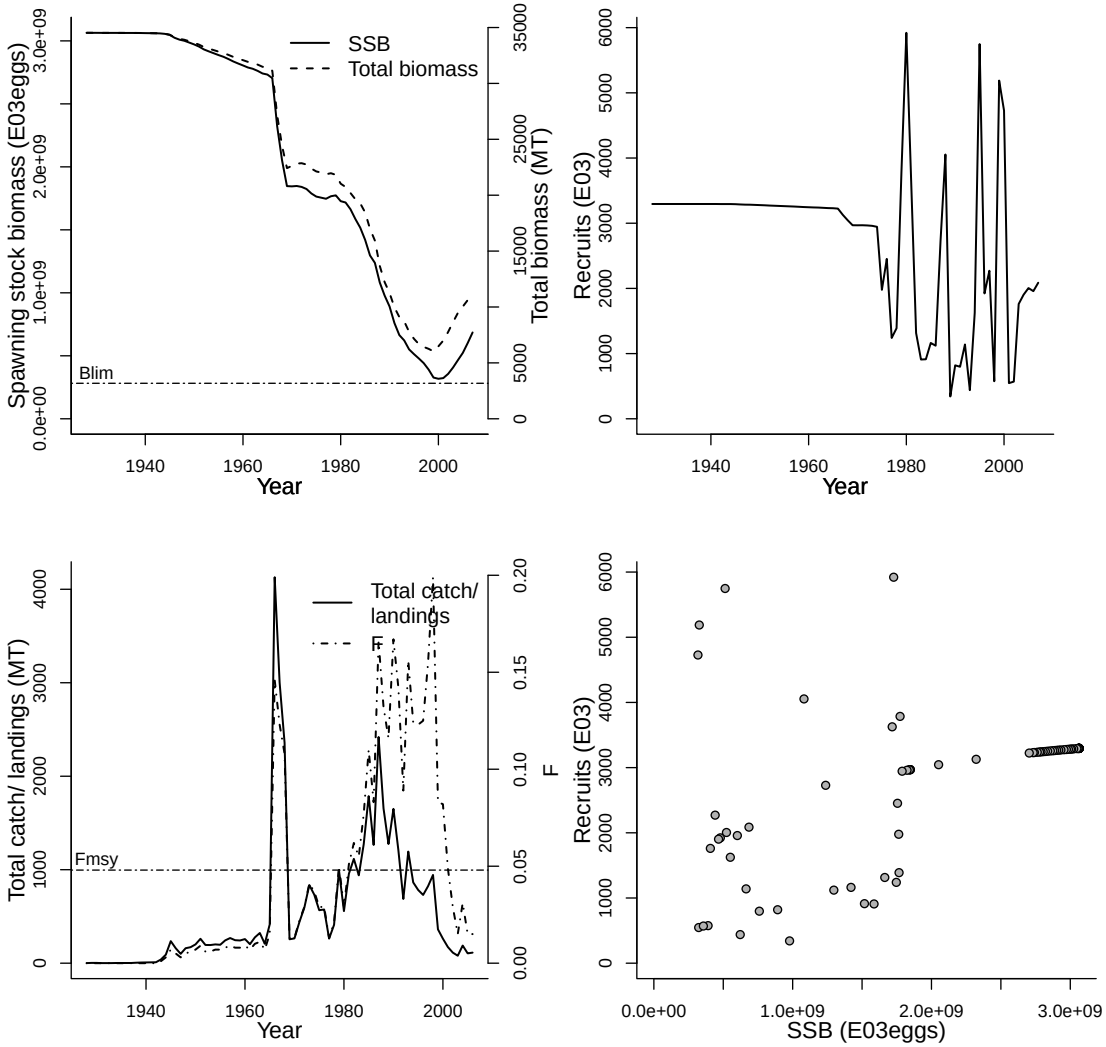
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	1+	yr-yr
TB-AGE-yr	0+	yr
L50-cm	34.5	cm
M-1/yr	0.07	1/yr
SSB-AGE-yr		
M		
A50-yr		

Reference points

Parameter	Value	Units
Blim-MT (TB)	3176	MT
Fmsy-1/yr (F)	0.048	1/yr
R0-E03 (R)	3295	E03
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.041	1/yr
SPRtarget-ratio (SPR)	0.5	ratio
MSY-MT (TB)	644	MT
SSBmsy-E03eggs	937600000	E03eggs
SSB0-E03eggs	3064000000	E03eggs
SSBtarget-E03eggs	1225600000	E03eggs
BH-h-dimless	0.6	dimless
F_{2006}/F_{msy}	0.312	
SSB_{2007}/SSB_{msy}	0.731	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1928	1928	1928	1928	1928
Maximum year	2007	2007	2006	2007	2006
Time series minimum	317600000	342	0	6031	1
Time series maximum	3064100000	5921	0.199	34527	4129
Units	E03eggs	E03	1/yr	MT	MT



Assessment of Pacific Coast english sole (*Parophrys vetulus*)

Assessment ID:NWFSC-ESOLEPCOAST-1876-2007-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/21

Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Stewart, Ian J.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1876-2007
Document	NWFSC-ESOLEPCOAST-2007-EnglishSole.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-18
Date last loaded	2010-03-17
QA/QC complete	YES
Date approved	2010-03-16

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

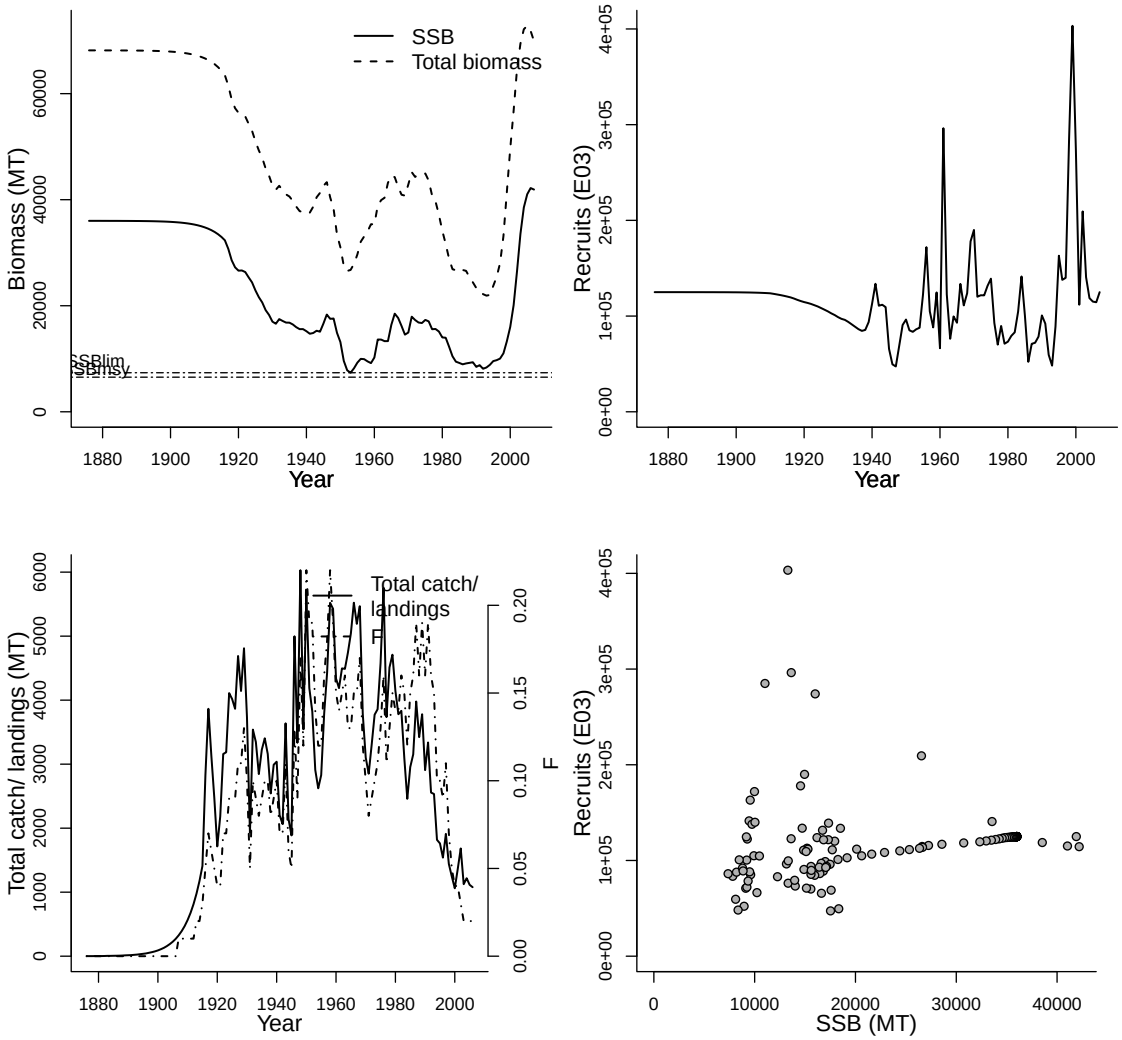
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-AGE-yr	3+	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	1+	yr-yr
L50-cm	23.3	cm
TB-AGE-yr	7.7+	yr
A50-yr	7.7+	yr
M		

Reference points

Parameter	Value	Units
SSBlim-MT (SSB)	7364	MT
SSBmsy-MT (SSB)	6526	MT
Fmsy-1/yr (F)	0.27	1/yr
SSB0-MT (SSB)	36012	MT
R0-E03 (R)	124990	E03
BH-h-dimless	0.798	dimless
SSBtarget-MT (SSB)	14405	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.13	1/yr
SPRtarget-ratio (SPR)	0.49	ratio
MSY-MT (TB)	4252	MT
SSB_{2007}/SSB_{lim}	5.691	
F_{2006}/F_{msy}	0.074	
SSB_{2007}/SSB_{msy}	6.422	

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.

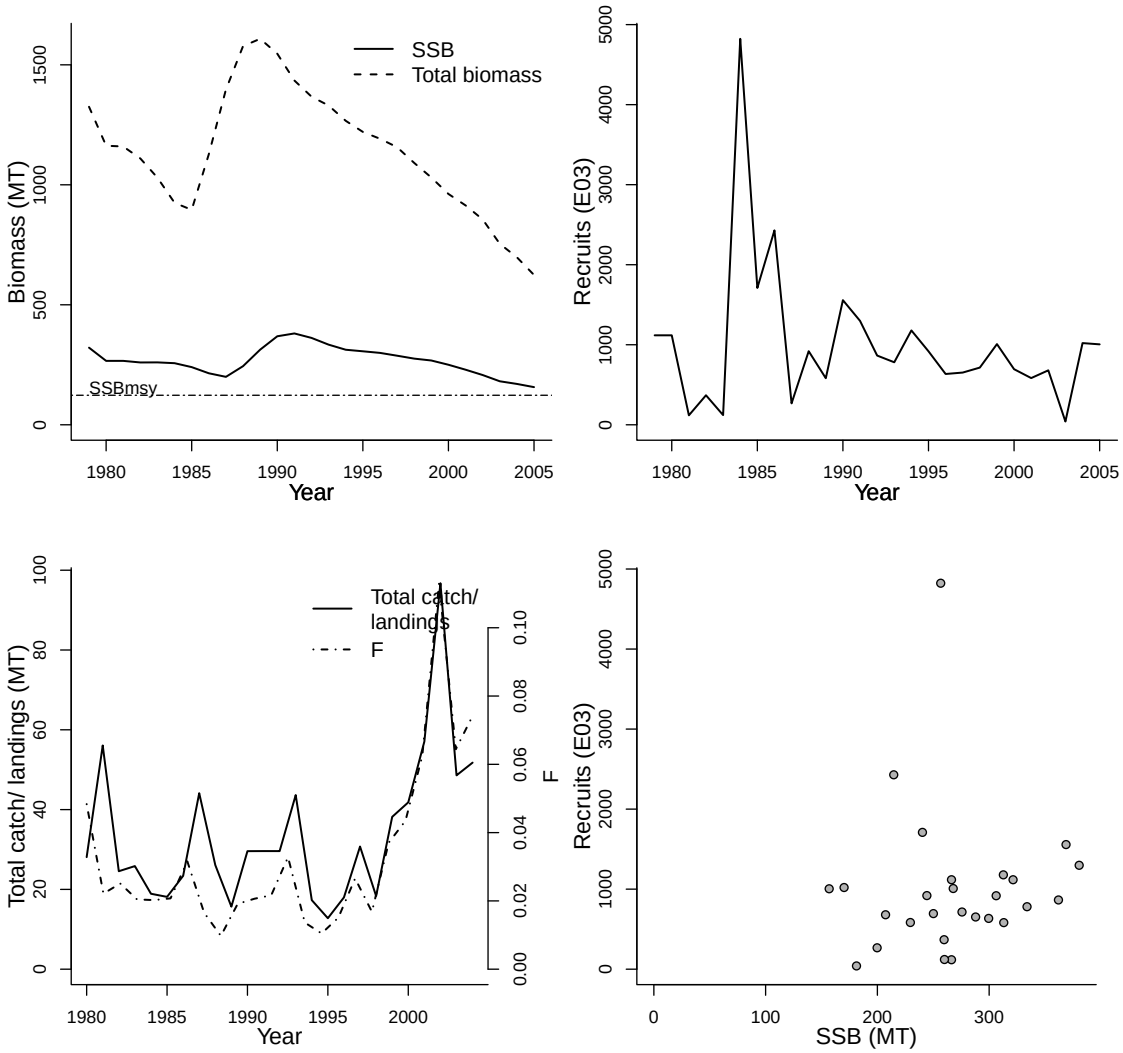
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-AGE-yr	4+	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	0+	yr-yr
TB-AGE-yr	0+	yr
M-1/yr	0.26	1/yr
NATMORT-1/yr	0.26	1/yr
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
NATMORT-1/yr (M)	0.26	1/yr
SSBmsy-MT (SSB)	123	MT
MSY-MT (TB)	82	MT
Umsy-ratio (U)	0.125	ratio
SSB0-MT (SSB)	321	MT
B0-MT	1295	MT
SSB_{2005}/SSB_{msy}	1.275	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1979	1979	1981	1979	1980
Maximum year	2005	2005	2004	2005	2004
Time series minimum	156.873	40.7389	0.00974561	624.32	12.7726
Time series maximum	380.566	4822.71	0.113046	1608.43	96.7418
Units	MT	E03	ratio	MT	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.

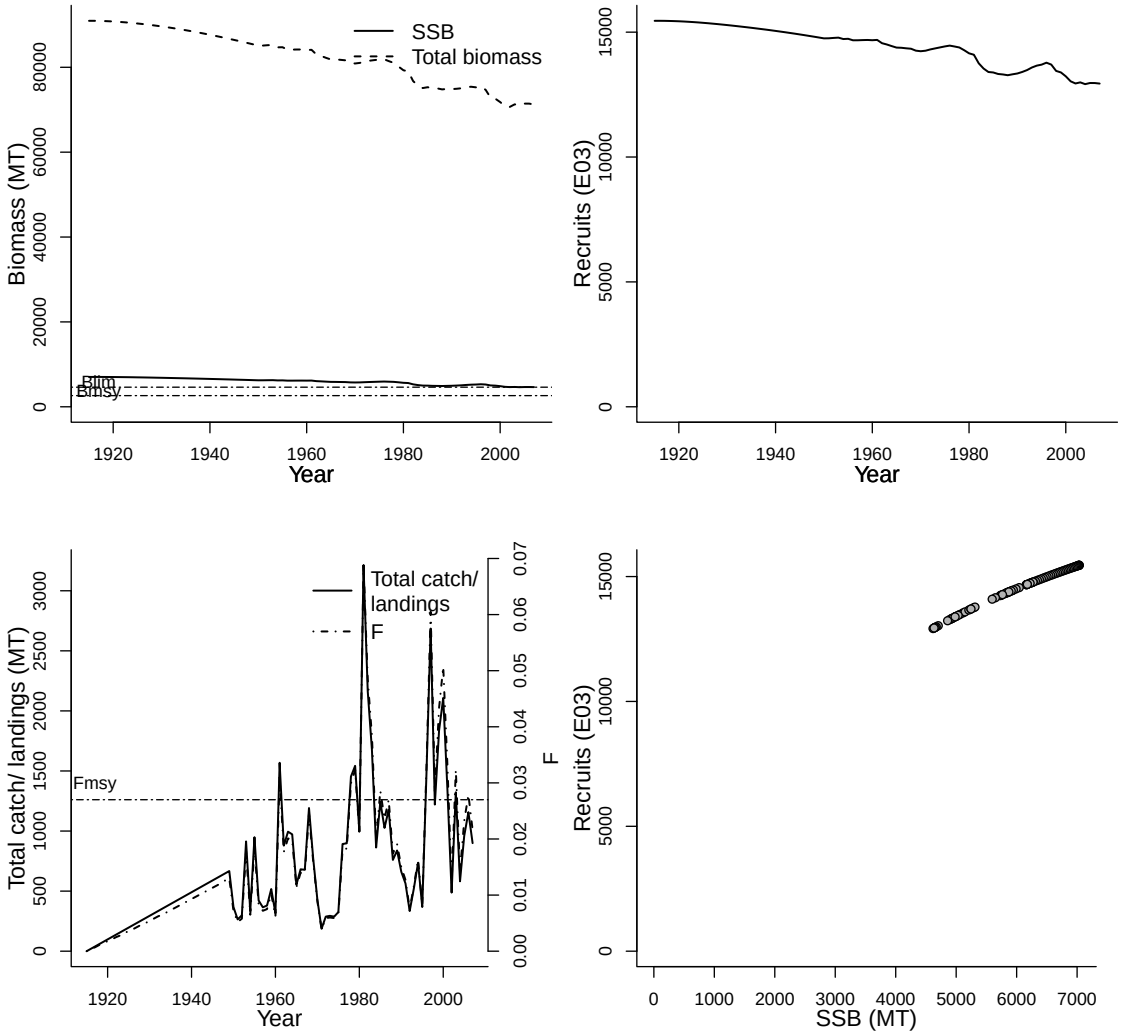
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	2+	yr-yr
TB-AGE-yr	0+	yr
L50-cm	120	cm
M-1/yr	0.2	1/yr
SSB-AGE-yr		
M		
A50-yr		

Reference points

Parameter	Value	Units
Blim-MT (TB)	4617	MT
Bmsy-MT (TB)	2626	MT
Fmsy-1/yr (F)	0.027	1/yr
SSB0-MT (SSB)	7034	MT
R0-E03 (R)	15454	E03
SSBtarget-MT (SSB)	2814	MT
SSBmin-ratio (SSB)	0.25	ratio
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
TB_{2007}/B_{msy}	27.120	
F_{2007}/F_{msy}	0.800	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1915	1915	1915	1915	1915
Maximum year	2007	2007	2007	2007	2007
Time series minimum	4617.13	12918.1	0	70670.6	0
Time series maximum	7034.32	15454.2	0.0688	90955.2	3212.68
Units	MT	E03	ratio	MT	MT



Assessment of Pacific Coast longspine thornyhead (*Sebastolobus altivelis*)

Assessment ID:NWFSC-LSTHORNHPCOAST-1962-2005-STANTON
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/348

Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Fay, Gavin
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1962-2005
Document	2005-SAFE-Longspine.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-22
Date last loaded	2009-11-10
QA/QC complete	NO
Date approved	

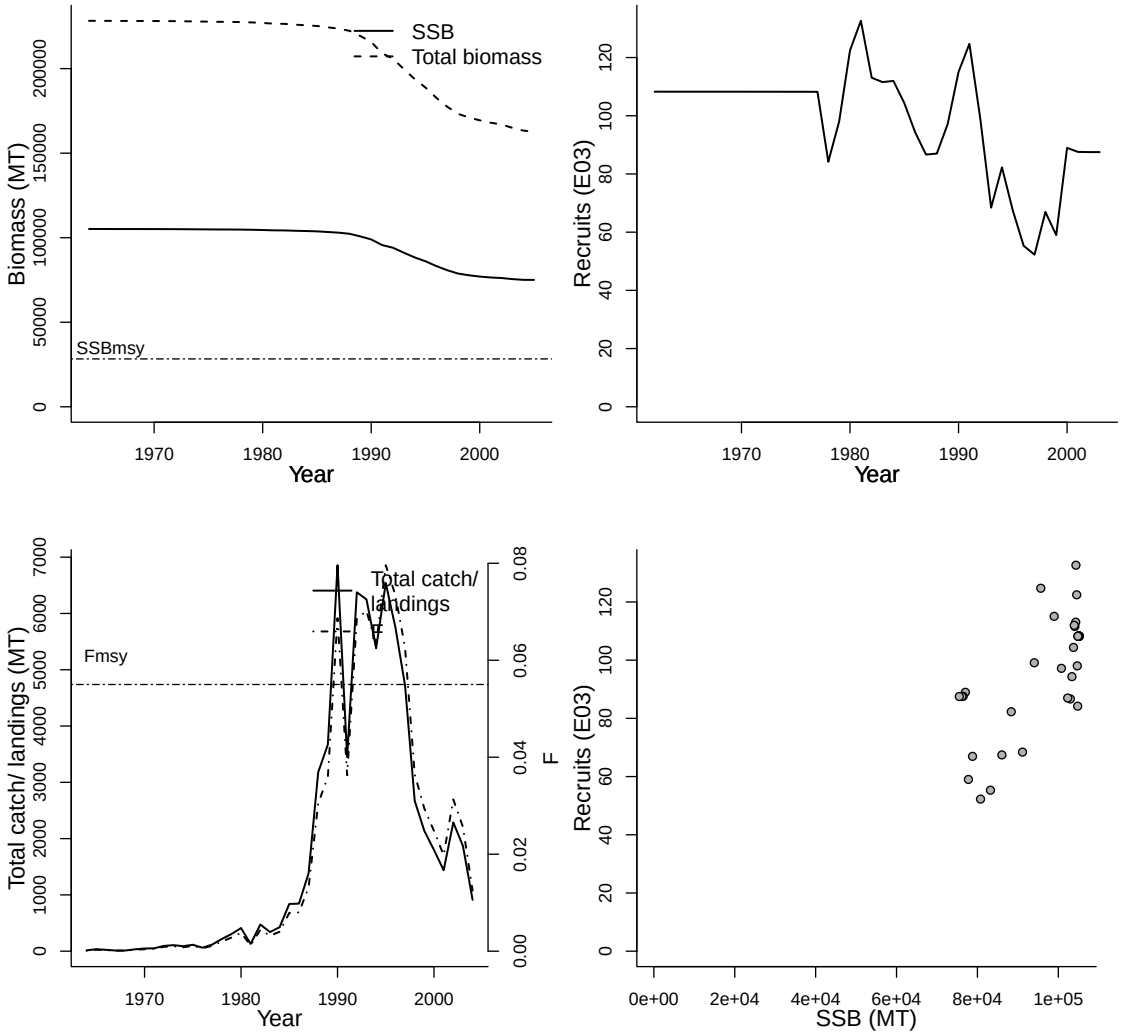
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	2	yr
F-AGE-yr-yr	0+	yr-yr
TB-AGE-yr	0+	yr
SSB-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.055	1/yr
SSBmsy-MT (SSB)	28305	MT
MSY-MT (TB)	3687	MT
SSB0-MT (SSB)	105157	MT
B0-MT	227972	MT
BH-h-dimless	0.75	dimless
F_{2004}/F_{msy}	0.227	
SSB_{2005}/SSB_{msy}	2.651	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964	1962	1964	1964	1964
Maximum year	2005	2003	2004	2005	2004
Time series minimum	75049	52.265	0.0001	162642	12
Time series maximum	105157	132.625	0.0796	228275	6857
Units	MT	E03	1/yr	MT	MT



Assessment of Pacific Coast pacific hake (*Merluccius productus*)

Assessment ID:NWFSC-PHAKEPCOAST-1966-2008-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/74

Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Helser, Thomas E.
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1966-2008
Document	NWFSC-PHAKEPCOAST-2008-Pacific-Hake-US-Canada.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-24
Date last loaded	2010-05-27
QA/QC complete	YES
Date approved	2010-05-27

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

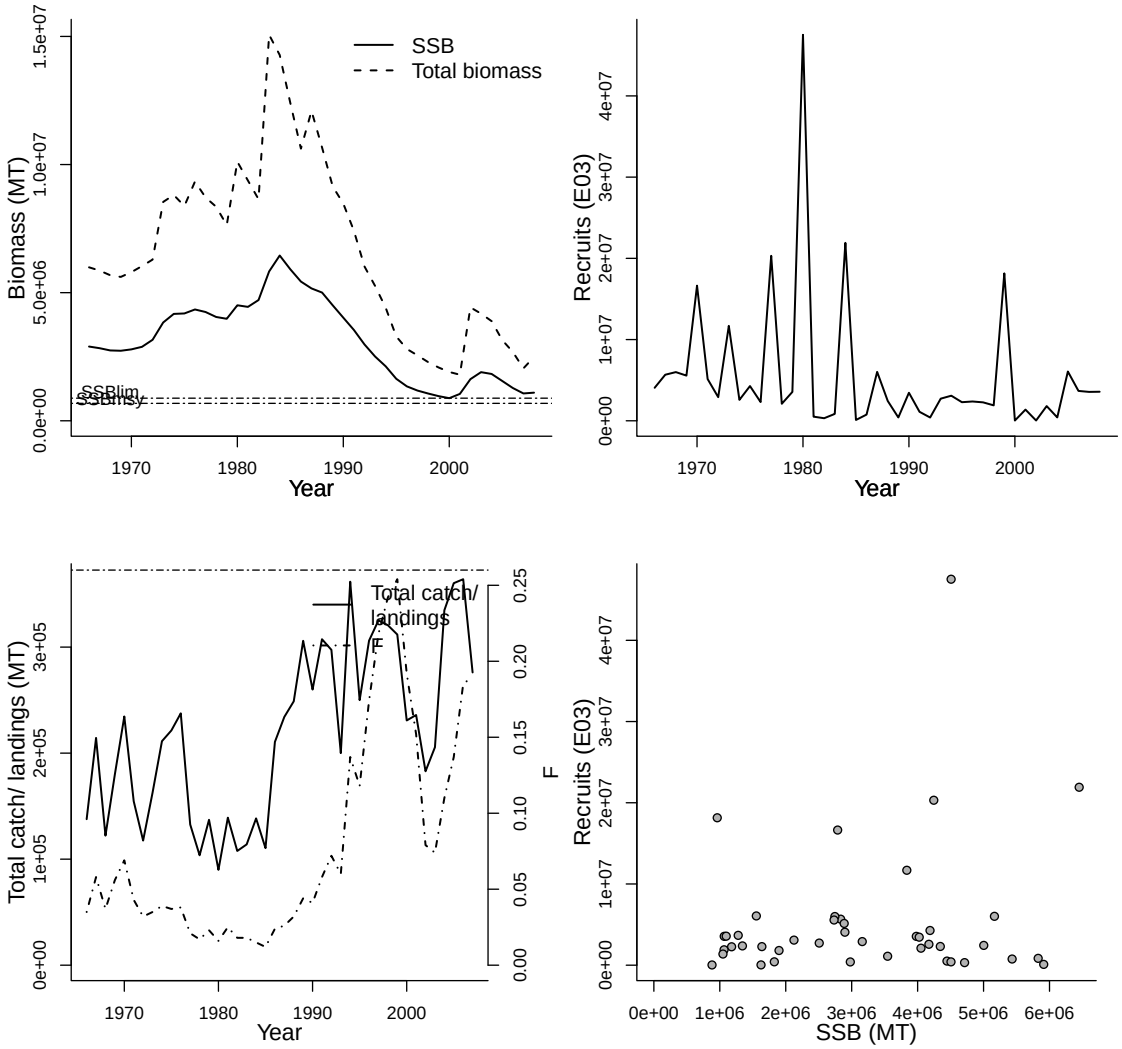
primary LME	secondary LME	tertiary LME
3 - California Current	2 - Gulf of Alaska	na

Parameter	Value	Units
SSB-AGE-yr	3+	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	3+	yr-yr
TB-AGE-yr	3+	yr
L50-cm	36	cm
M-1/yr	0.23	1/yr
M		
A50-yr		

Reference points

Parameter	Value	Units
SSBlim-MT (SSB)	882000	MT
SSBmsy-MT (SSB)	680000	MT
Fmsy-1/yr (F)	0.26	1/yr
SSB0-MT (SSB)	2890000	MT
R0-E09 (R)	4.06	E09
SSBtarget-MT (SSB)	1170000	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.16	1/yr
SPRtarget-ratio (SPR)	0.4	ratio
MSY-MT (TB)	476750	MT
BH-h-dimless	0.744	dimless
SSB_{2008}/SSB_{lim}	1.244	
F_{2007}/F_{msy}	0.731	
SSB_{2008}/SSB_{msy}	1.613	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1966	1966	1966	1966	1966
Maximum year	2008	2008	2007	2008	2007
Time series minimum	882000	30000	0.012	1798000	89936
Time series maximum	6450000	47524000	0.254	15063000	364025
Units	MT	E03	1/yr	MT	MT



Assessment of Pacific Coast pacific ocean perch (*Sebastes alutus*)

Assessment ID:NWFSC-POPERCHPCOAST-1953-2007-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/63

Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Hamel OS
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2007
Timeseries span	1953-2007
Document	NWFSC-POPERCHPCOAST-2007-Pacific ocean perch.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-24
Date last loaded	2010-03-19
QA/QC complete	YES
Date approved	2010-03-19

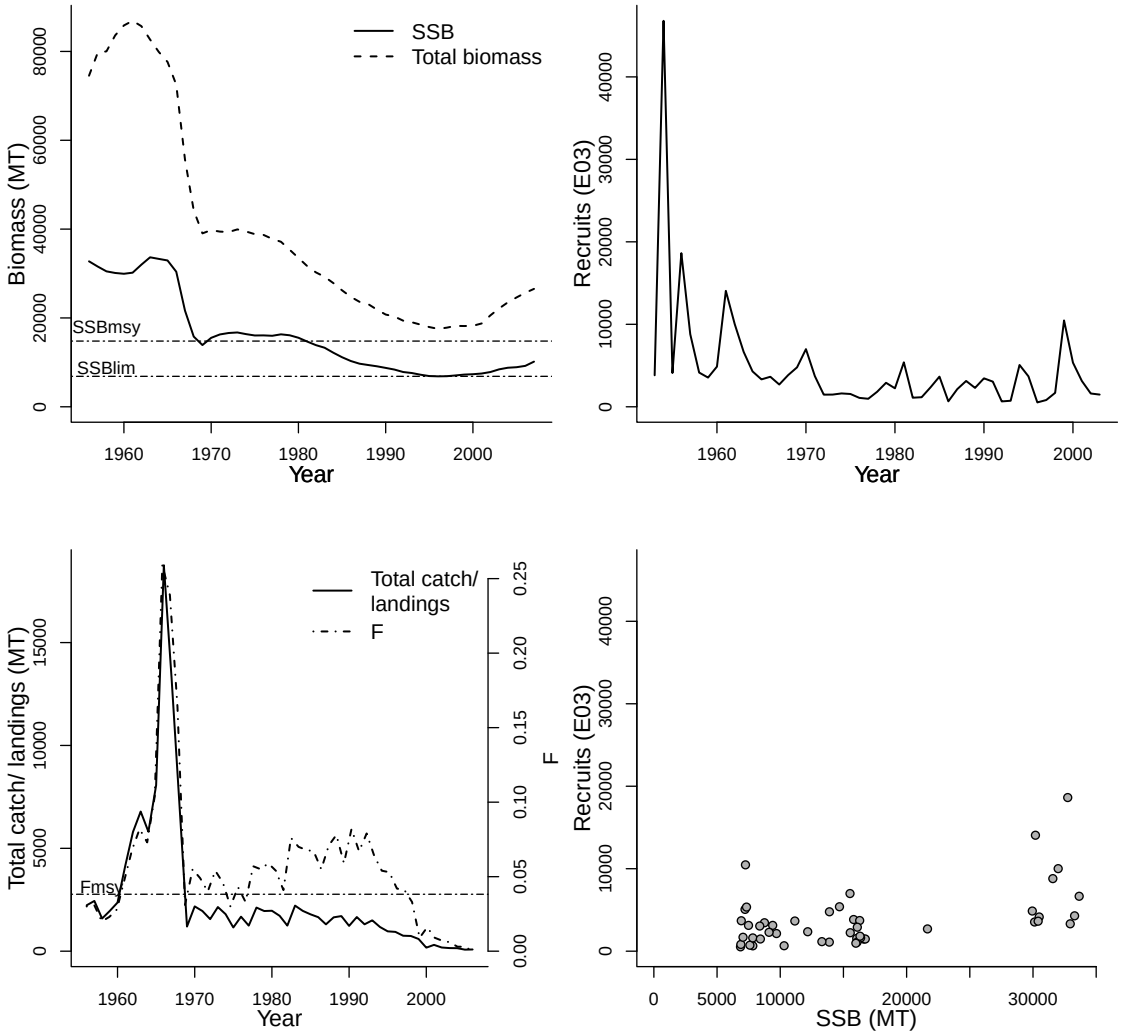
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	3	yr
F-AGE-yr-yr	3+	yr-yr
TB-AGE-yr	3+	yr
M-1/yr	0.053	1/yr
A50-yr	8	yr
SSB-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSBlim-MT (SSB)	6856	MT
SSBmsy-MT (SSB)	14793	MT
Fmsy-1/yr (F)	0.0382	1/yr
SSB0-MT (SSB)	36983	MT
R0-E06 (R)	4.97	E06
SSBtarget-MT (SSB)	14793	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.0388	1/yr
SPRtarget-ratio (SPR)	0.4	ratio
MSY-MT (TB)	1411	MT
BH-h-dimless	0.652	dimless
SSB_{2007}/SSB_{lim}	1.483	
SSB_{2007}/SSB_{msy}	0.687	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1956	1953	1956	1956	1956
Maximum year	2007	2003	2007	2007	2006
Time series minimum	6856	530	0	17543.8	75
Time series maximum	33654	46800	0.259	86898.1	18761
Units	MT	E03	1/yr	MT	MT



Assessment of Northern Pacific Coast petrale sole (*Eopsetta jordani*)

Assessment ID:NWFSC-PSOLENPCOAST-1910-2005-STANTON
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/342

Area ID: USA-NMFS-NPCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Lai, Han-Lin
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1910-2005
Document	ref2004-SAFE-WCpetralesole.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-20
Date last loaded	2010-07-27
QA/QC complete	NO
Date approved	

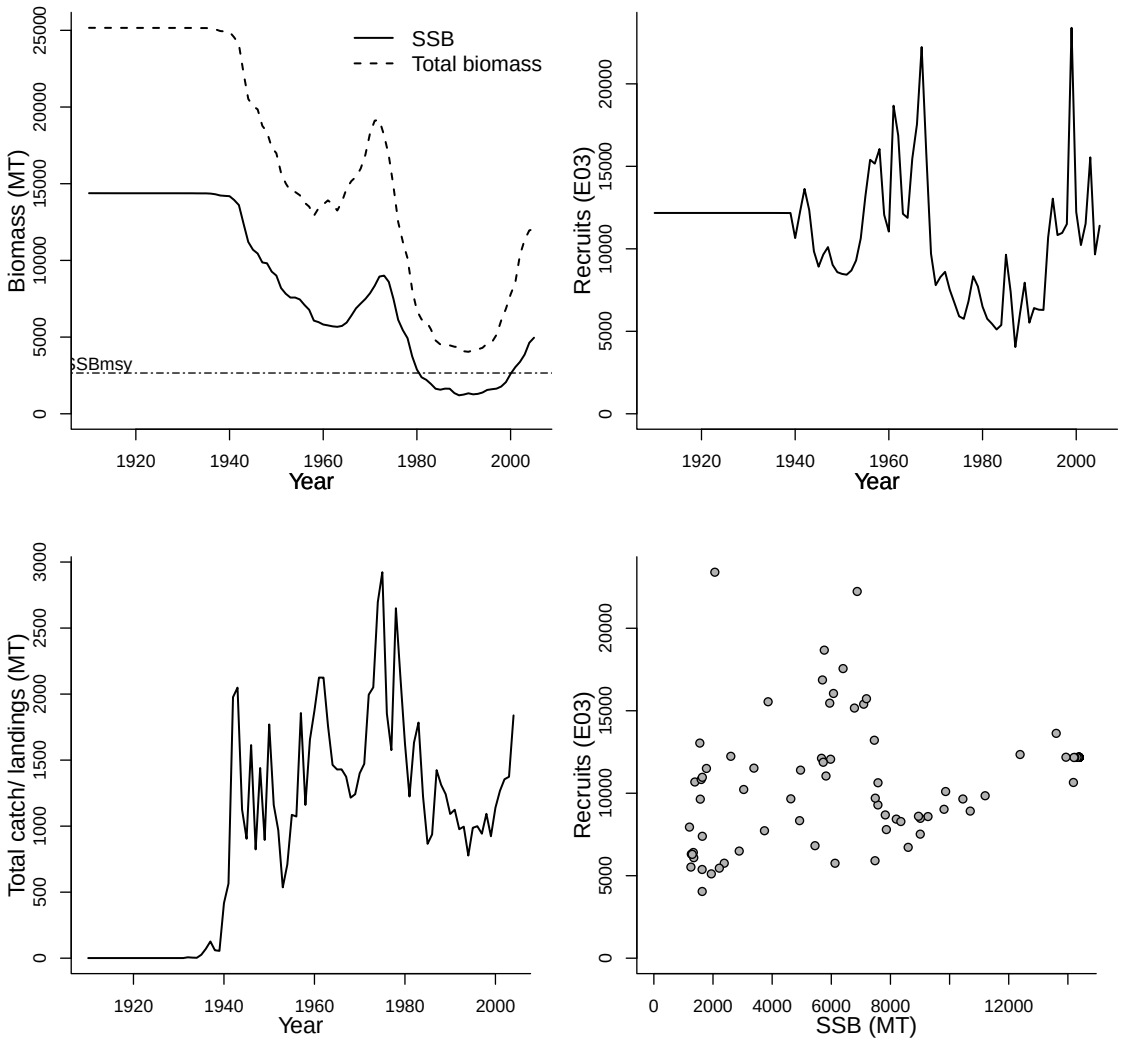
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
3 - California Current	na	na

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

Reference points		
Parameter	Value	Units
NATMORT-1/yr (M)	0.2	1/yr
SSBmsy-MT (SSB)	2658	MT
MSY-MT (TB)	1760	MT
Umsy-ratio (U)	0.12	ratio
SSB0-MT (SSB)	14382	MT
B0-MT	25165	MT
SSB_{2005}/SSB_{msy}	1.866	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1910	1910		1910	1910
Maximum year	2005	2005		2005	2004
Time series minimum	1204	4045		4041	1
Time series maximum	14382	23398		25165	2922.9
Units	MT	E03		MT	MT



Assessment of Southern Pacific Coast petrale sole (*Eopsetta jordani*)

Assessment ID:NWFSC-PSOLESPCOAST-1874-2005-STANTON
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/341

Area ID: USA-NMFS-SPCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Lai, Han-Lin
Assessment method	Stock Synthesis v2.0 model
Publication year	2005
Timeseries span	1874-2005
Document	ref2004-SAFE-WCpetralesole.pdf (pdf in database)
Recorder	STANTON
Date entered	2009-05-20
Date last loaded	2010-07-27
QA/QC complete	NO
Date approved	

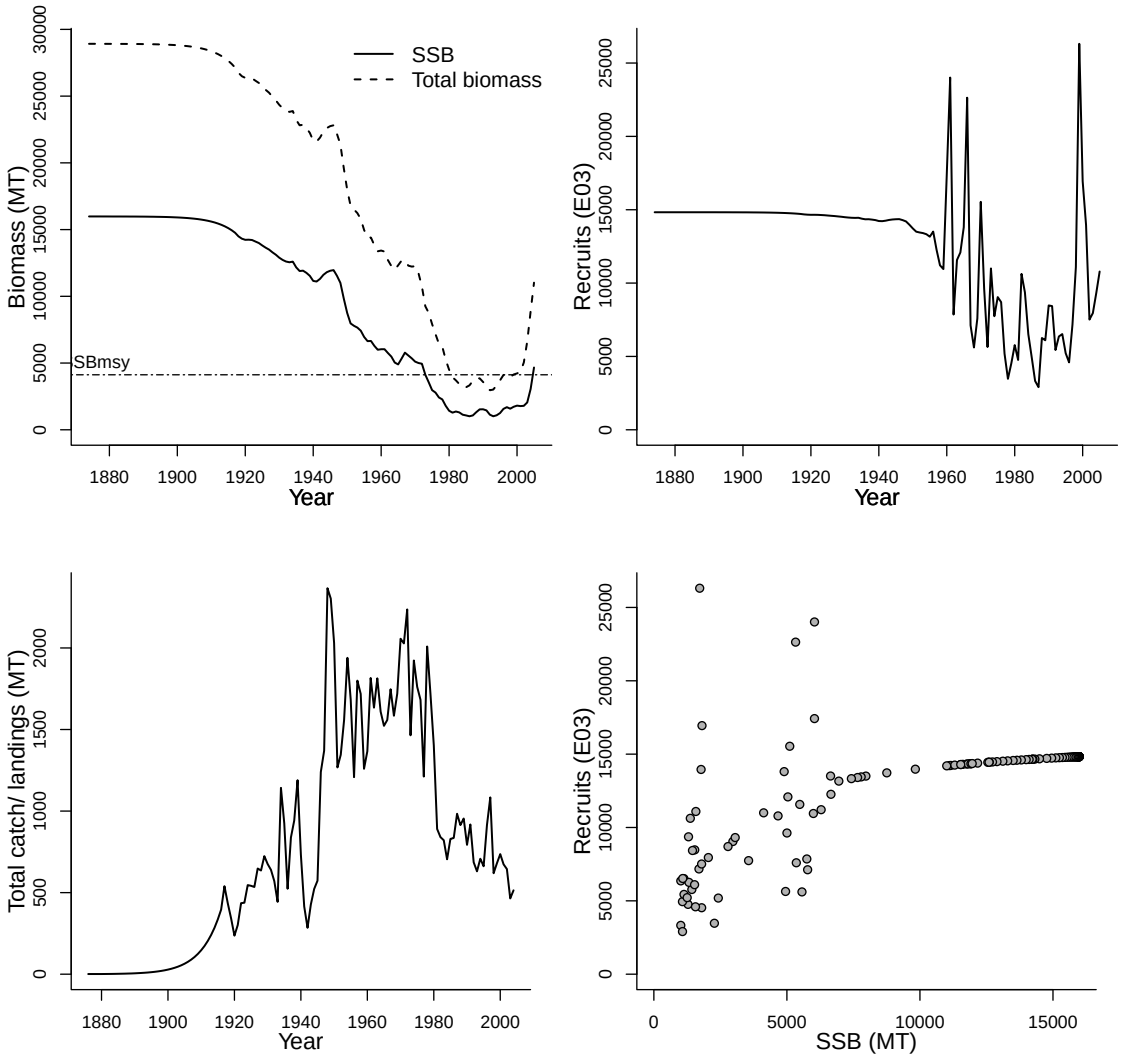
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
3 - California Current	na	na

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

Reference points		
Parameter	Value	Units
NATMORT-1/yr (M)	0.2	1/yr
SSBmsy-MT (SSB)	4121	MT
MSY-MT (TB)	1404	MT
Umsy-ratio (U)	0.14	ratio
SSB0-MT (SSB)	15985	MT
B0-MT	28920	MT
SSB_{2005}/SSB_{msy}	1.132	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1874	1874		1874	1876
Maximum year	2005	2005		2005	2004
Time series minimum	1012	2906		2963	1
Time series maximum	15985	26311		28920	2366.3
Units	MT	E03		MT	MT



Assessment of Pacific Coast sablefish (*Anoplopoma fimbria*)

Assessment ID:NWFSC-SABLEFPCOAST-1900-2007-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/42

Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Schirripa, M.J.
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1900-2007
Document	NWFSC-SABLEFPCOAST-2007-Sablefish.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2010-07-21
QA/QC complete	YES
Date approved	2009-06-02

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

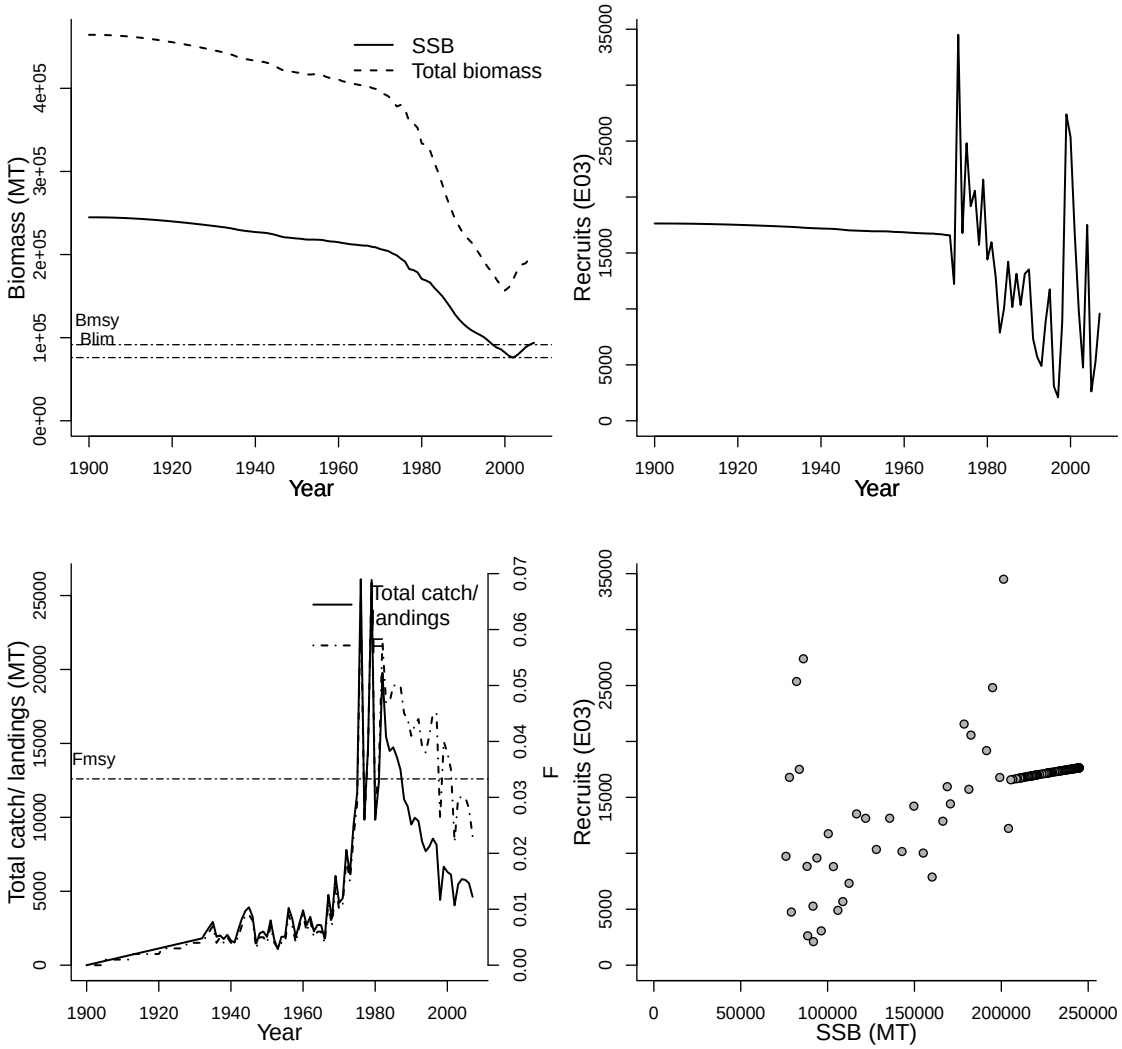
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-AGE-yr	5.5	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	2+	yr-yr
TB-AGE-yr	2+	yr
L50-cm	55.3	cm
M-1/yr	0.07	1/yr
M		
A50-yr		

Reference points

Parameter	Value	Units
BH-h-dimless	0.48	dimless
Blim-MT (TB)	76036	MT
Bmsy-MT (TB)	91559	MT
Fmsy-1/yr (F)	0.0333	1/yr
SSB0-MT (SSB)	244797	MT
R0-E03 (R)	17635	E03
SSBtarget-MT (SSB)	97919	MT
SSBmin-ratio (SSB)	0.25	ratio
Ftarget-1/yr (F)	0.0313	1/yr
SPRtarget-ratio (SPR)	0.4	ratio
MSY-MT (TB)	6303	MT
TB_{2007}/B_{msy}	2.126	
F_{2007}/F_{msy}	0.691	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1900	1900	1900	1900	1900
Maximum year	2007	2007	2007	2007	2007
Time series minimum	76036.2	2103.55	0	156707	0
Time series maximum	244809	34500.6	0.069	464403	26105.8
Units	MT	E03	1/yr	MT	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	

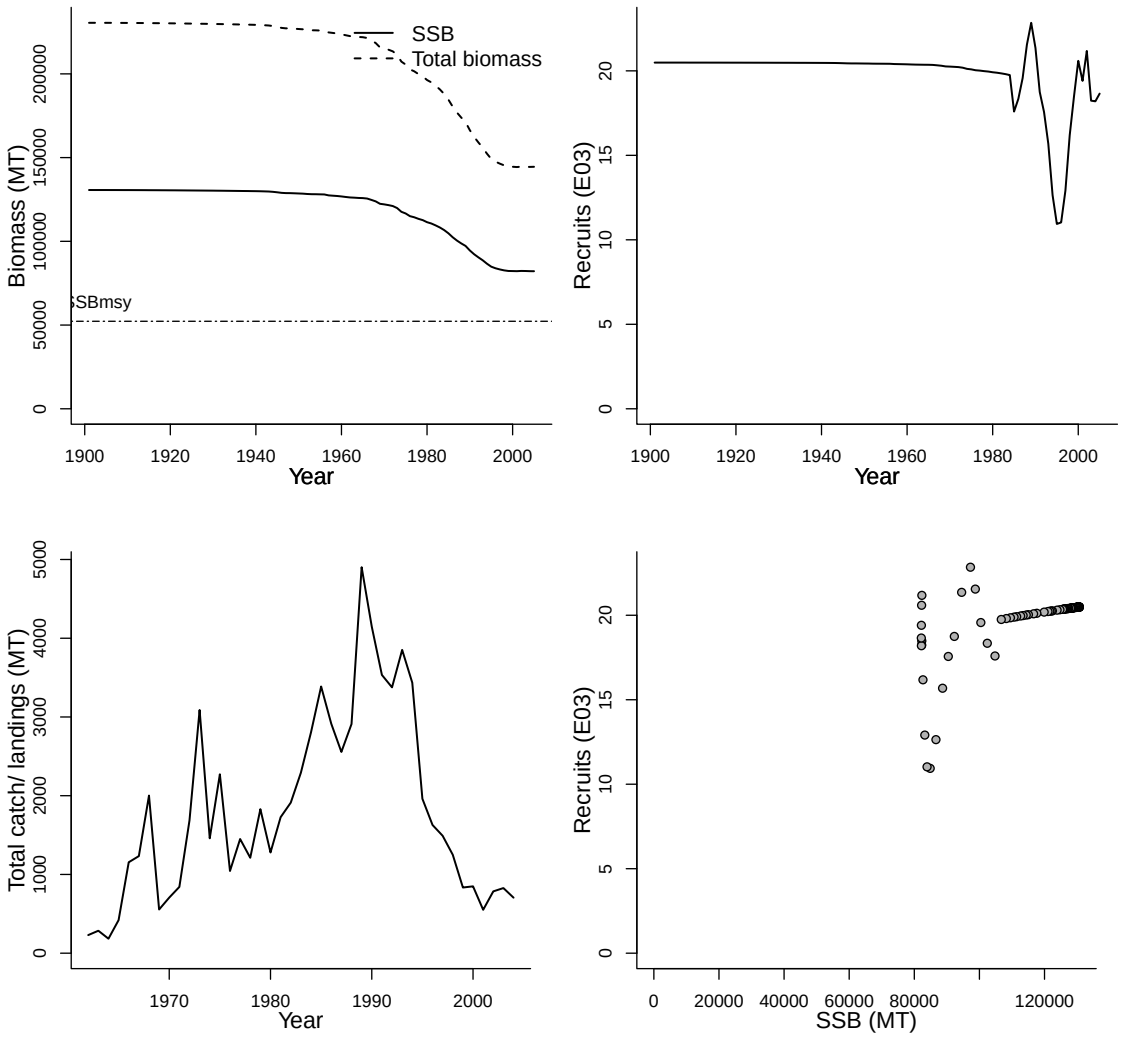
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-AGE-yr	9+	yr
SSB-SEX-sex	1	sex
REC-AGE-yr	1	yr
F-AGE-yr-yr	2+	yr-yr
TB-AGE-yr	2+	yr
M-1/yr	0.05	1/yr
NATMORT-1/yr	0.05	1/yr
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.0238	1/yr
NATMORT-1/yr (M)	0.05	1/yr
SSBmsy-MT (SSB)	52258	MT
MSY-MT (TB)	1720	MT
Umsy-ratio (U)	0.0184	ratio
SSB0-MT (SSB)	130646	MT
B0-MT	230500	MT
SSB_{2005}/SSB_{msy}	1.572	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1901	1901		1901	1962
Maximum year	2005	2005		2005	2004
Time series minimum	82150.9	10.939		144357	184
Time series maximum	130646	22.8433		230500	4902
Units	MT	E03		MT	MT



Assessment of Pacific Coast widow rockfish (*Sebastes entomelas*)

Assessment ID:NWFSC-WROCKPCOAST-1955-2006-BRANCH
Issue URL: http://www.marinebiodiversity.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-WROCKPCOAST-2007-widow.pdf (pdf in database)
Recorder	BRANCH
Date entered	2008-11-23
Date last loaded	2010-03-05
QA/QC complete	YES
Date approved	2010-03-08

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

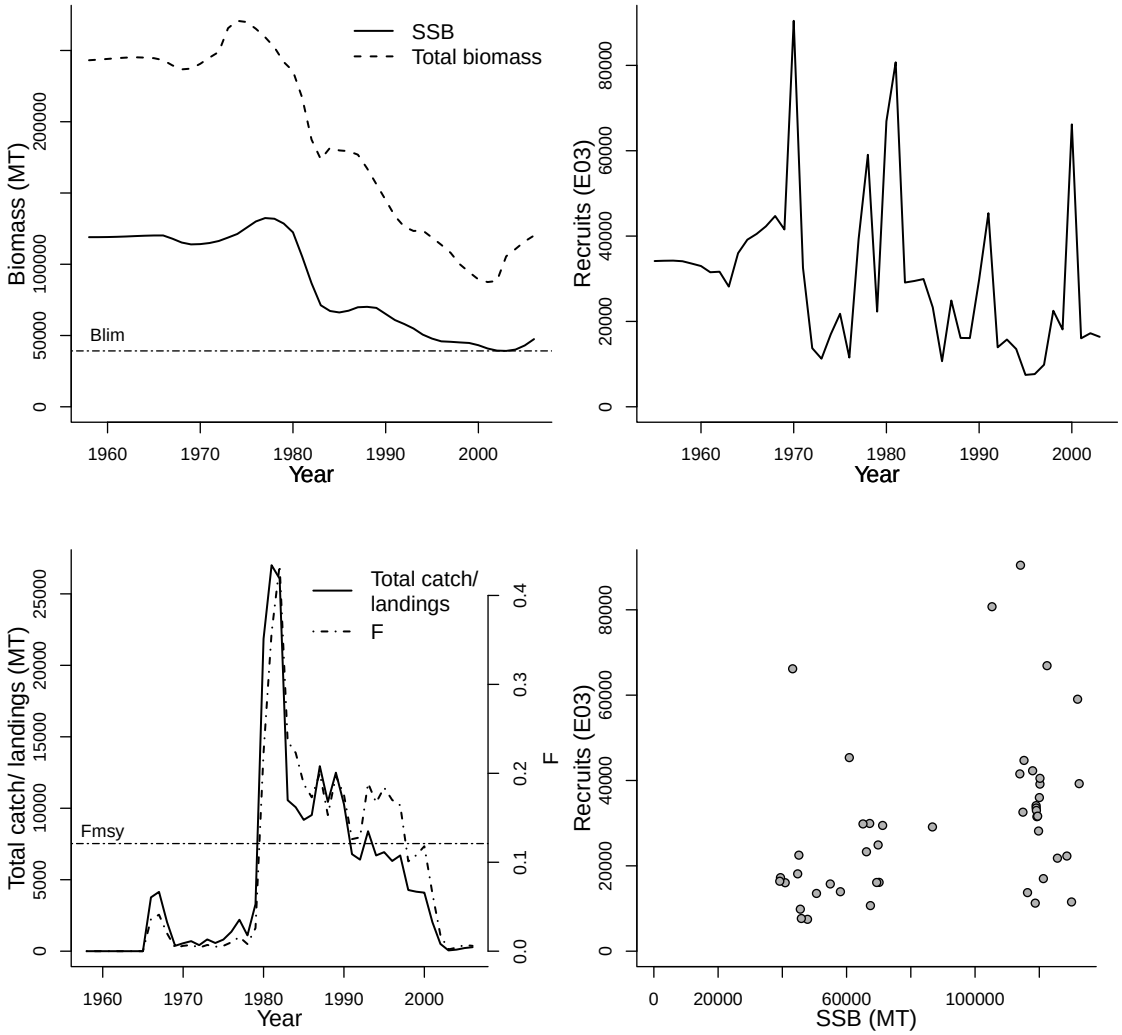
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	3	yr
F-AGE-yr-yr	3+	yr-yr
TB-AGE-yr	3+	yr
M-1/yr	0.125	1/yr
SSB-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
BH-h-dimless	0.29	dimless
Blim-MT (TB)	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
F_{2006}/F_{msy}	0.050	
SSB_{2006}/SSB_{msy}	2.339	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1958	1955	1958	1958	1958
Maximum year	2006	2003	2006	2006	2006
Time series minimum	39194	7470	0	87514	0
Time series maximum	132416	90448	0.434	270818	27005
Units	MT	E03	1/yr	MT	MT



Assessment of Pacific Coast yelloweye rockfish (*Sebastes ruberrimus*)

Assessment ID:NWFSC-YEYEROCKPCOAST-1923-2006-BRANCH
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/65

Area ID: USA-NMFS-PCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Wallace GR
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1923-2006
Document	NWFSC-YEYEROCKPCOAST-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.

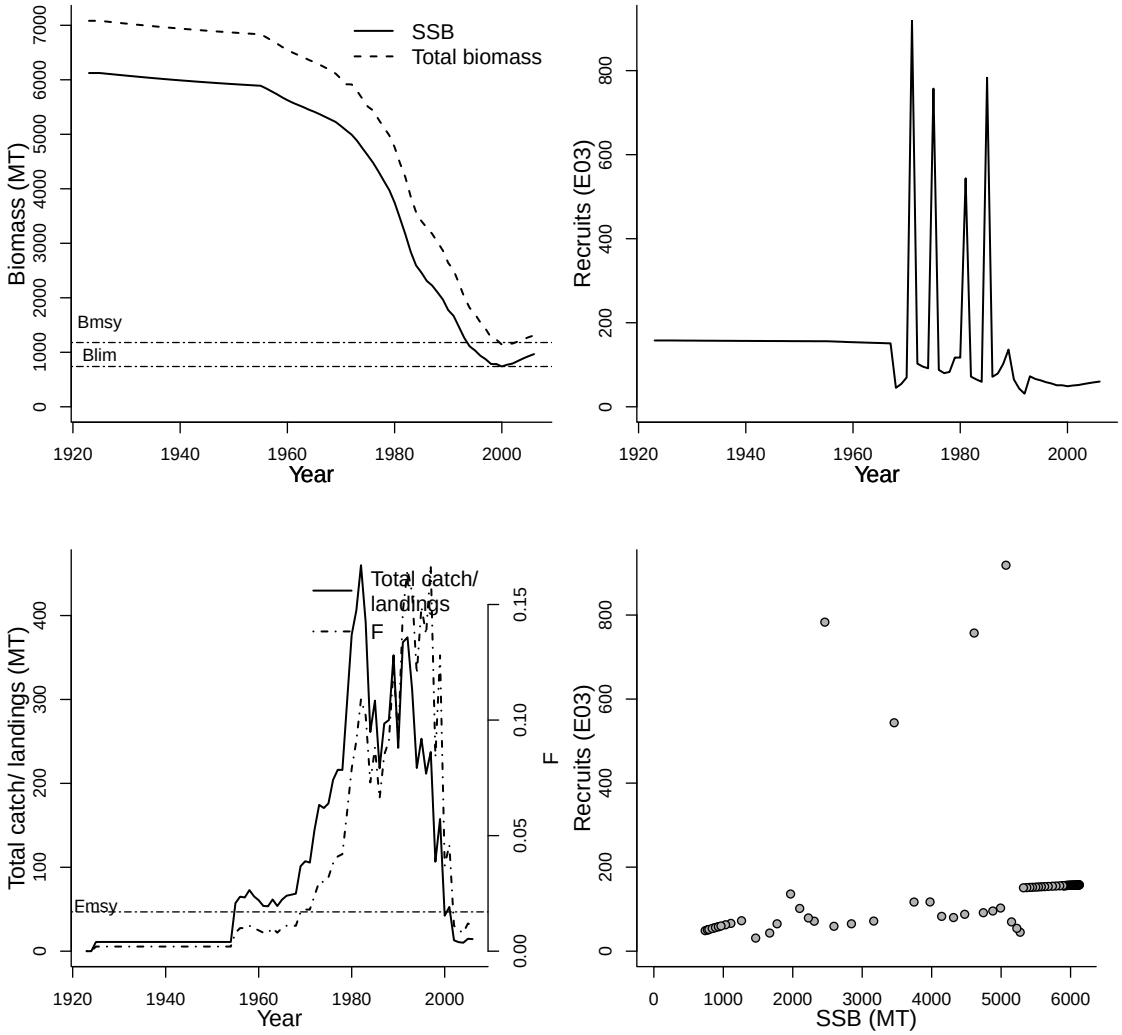
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	3+	yr-yr
TB-AGE-yr	1+	yr
L50-cm	36	cm
M-1/yr	0.036	1/yr
SSB-AGE-yr		
M		
A50-yr		

Reference points

Parameter	Value	Units
Blim-MT (TB)	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
TB_{2006}/B_{msy}	1.111	
F_{2006}/F_{msy}	0.647	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1923	1923	1923	1923	1923
Maximum year	2006	2006	2006	2006	2006
Time series minimum	739.11	31.2	0	1141	0
Time series maximum	6124.01	918.6	0.167	7082.2	460
Units	MT	E03	1/yr	MT	MT



Assessment of Northern Pacific Coast yellowtail rockfish (*Sebastes flavidus*)

Assessment ID:NWFSC-YTROCKNPCOAST-1967-2005-STANTON
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/335

Area ID: USA-NMFS-NPCOAST

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Northwest Fisheries Science Center
Assessment authors	Wallace, John
Assessment method	Stock Synthesis v1.0 model
Publication year	2005
Timeseries span	1967-2005
Document	2005_SAFE_yellowtail.pdf (pdf not in database)
Recorder	STANTON
Date entered	2009-05-19
Date last loaded	2010-03-19
QA/QC complete	NO
Date approved	2010-03-19

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

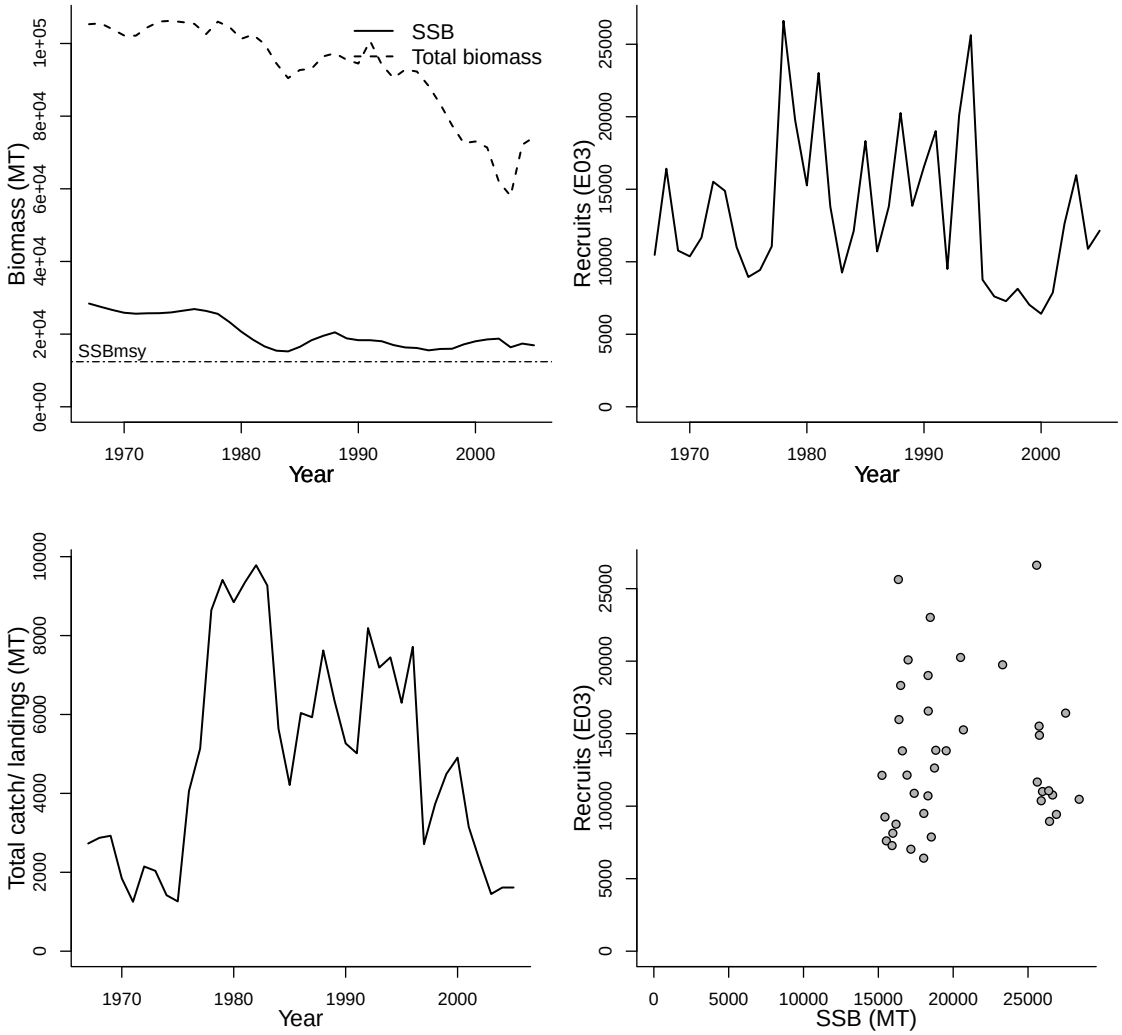
primary LME	secondary LME	tertiary LME
3 - California Current	na	na

Parameter	Value	Units
SSB-AGE-yr	4+	yr
SSB-SEX-sex	NA	sex
REC-AGE-yr	4	yr
F-AGE-yr-yr	4	yr-yr
TB-AGE-yr	4+	yr
M-1/yr	0.11	1/yr
NATMORT-1/yr	0.11	1/yr
M		
A50-yr		
L50-cm		

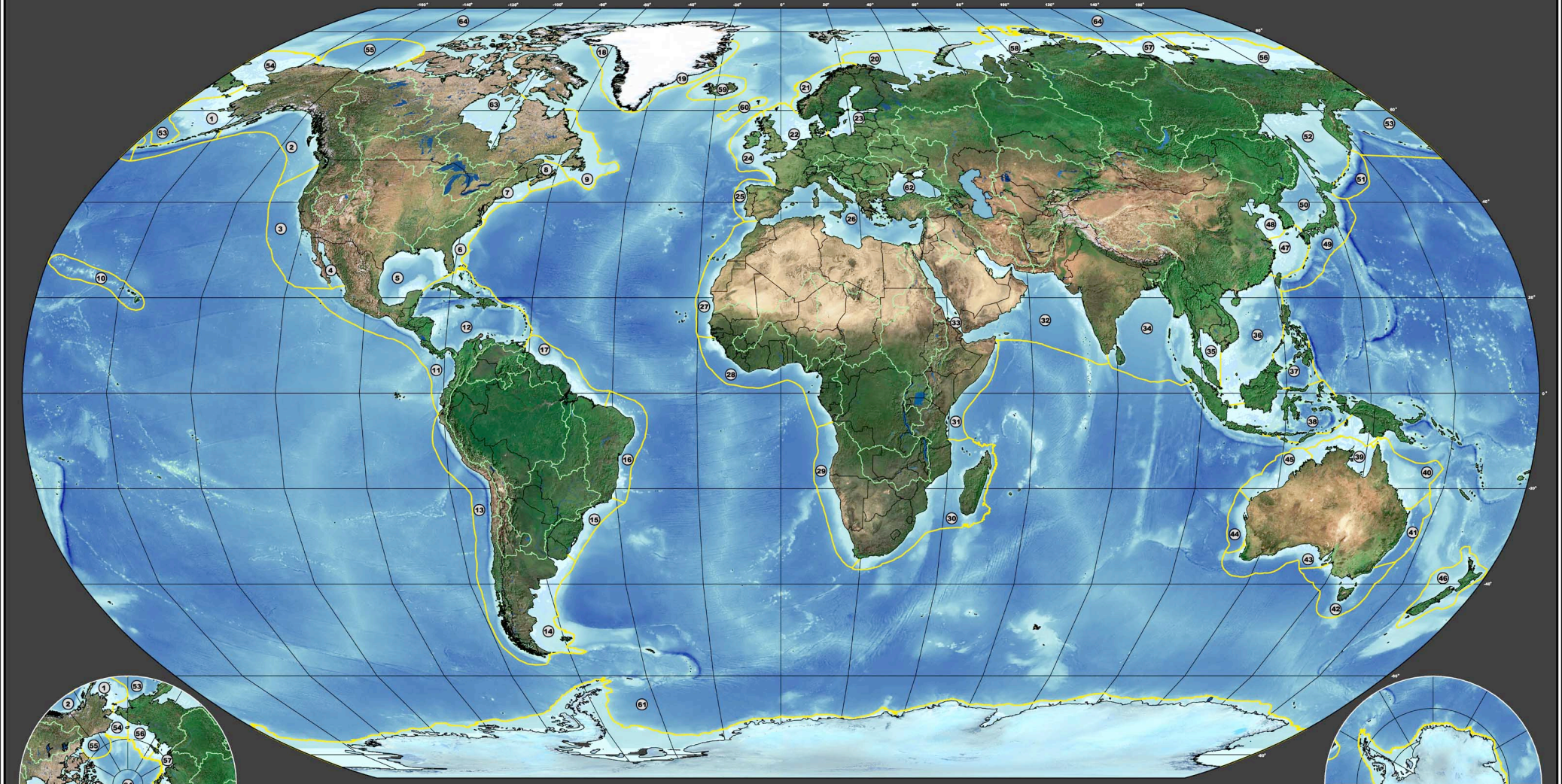
Reference points

Parameter	Value	Units
NATMORT-1/yr (M)	0.11	1/yr
SSBmsy-MT (SSB)	12407	MT
MSY-MT (TB)	4680	MT
SSB0-MT (SSB)	31016	MT
B0-MT	120024	MT
SSB_{2005}/SSB_{msy}	1.363	

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



Large Marine Ecosystems of the World
and Linked Watersheds



MAP KEY:

LME Numbers:

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

Large Marine Ecosystems
Watershed Bounds
Political Borders

DEPTH

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

N W E S

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

Miles
0 300 600 900 1200

Kilometers
0 400 800 1200 1600 2000 2400

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

IUCN

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

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