

Dear Jeremy,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 14 of your assessments, and now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please follow the steps below to ensure that your assessments have been dutifully represented:

QA/QC steps

For each assessment:

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

QA/QC submission process

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

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

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

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

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Assessment of Prince William Sound pacific herring (*Clupea pallasii*)

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

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

Area ID: USA-US State-PWS

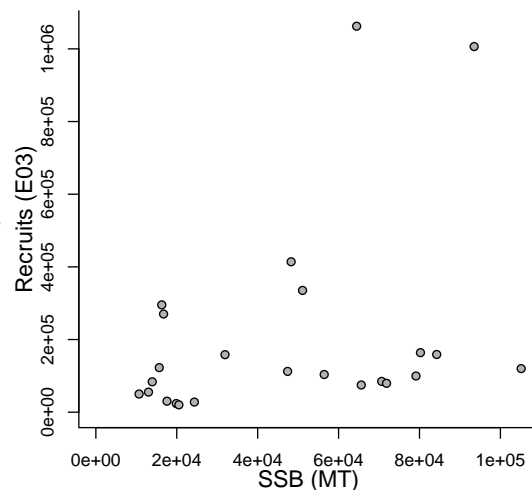
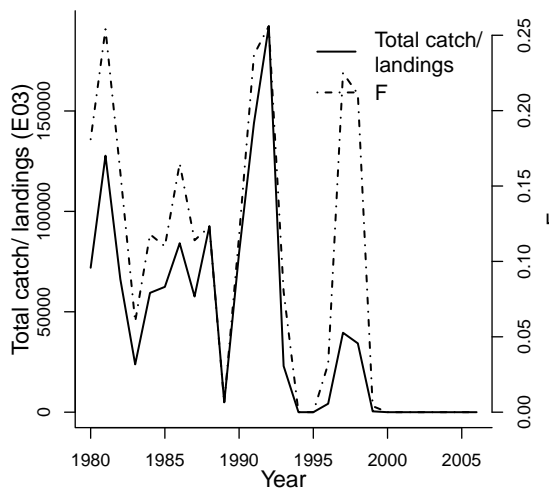
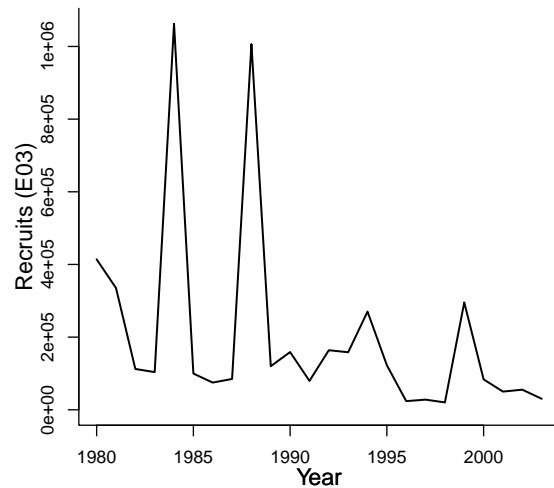
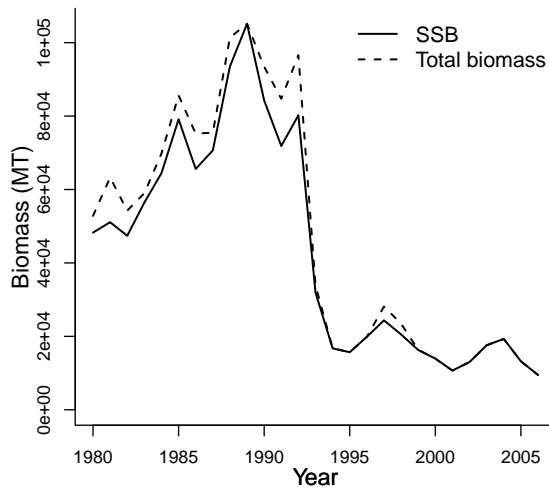
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Department of Fish and Game
Assessment authors	
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	
Timeseries span	1980-2006
Document	NULL (pdf not in database)
Recorder	COLLIE
Date entered	2008-12-08
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.

			Parameter	Value	Units
primary LME	secondary LME	tertiary LME	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	0.25	1/yr
			M		
			A50-yr		
			L50-cm		
Reference points					
Parameter			Value	Units	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1980	1980	1980	1980	1980
Maximum year	2006	2003	2006	2006	2006
Time series minimum	9499.56	20310	0	9499.56	0
Time series maximum	105135.41	1062360	0.256	105135.41	192220
Units	MT	E03	1/yr	MT	E03



Assessment of Sitka pacific herring (*Clupea pallasii*)

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

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

Area ID: USA-US State-SITKA

General assessment details.

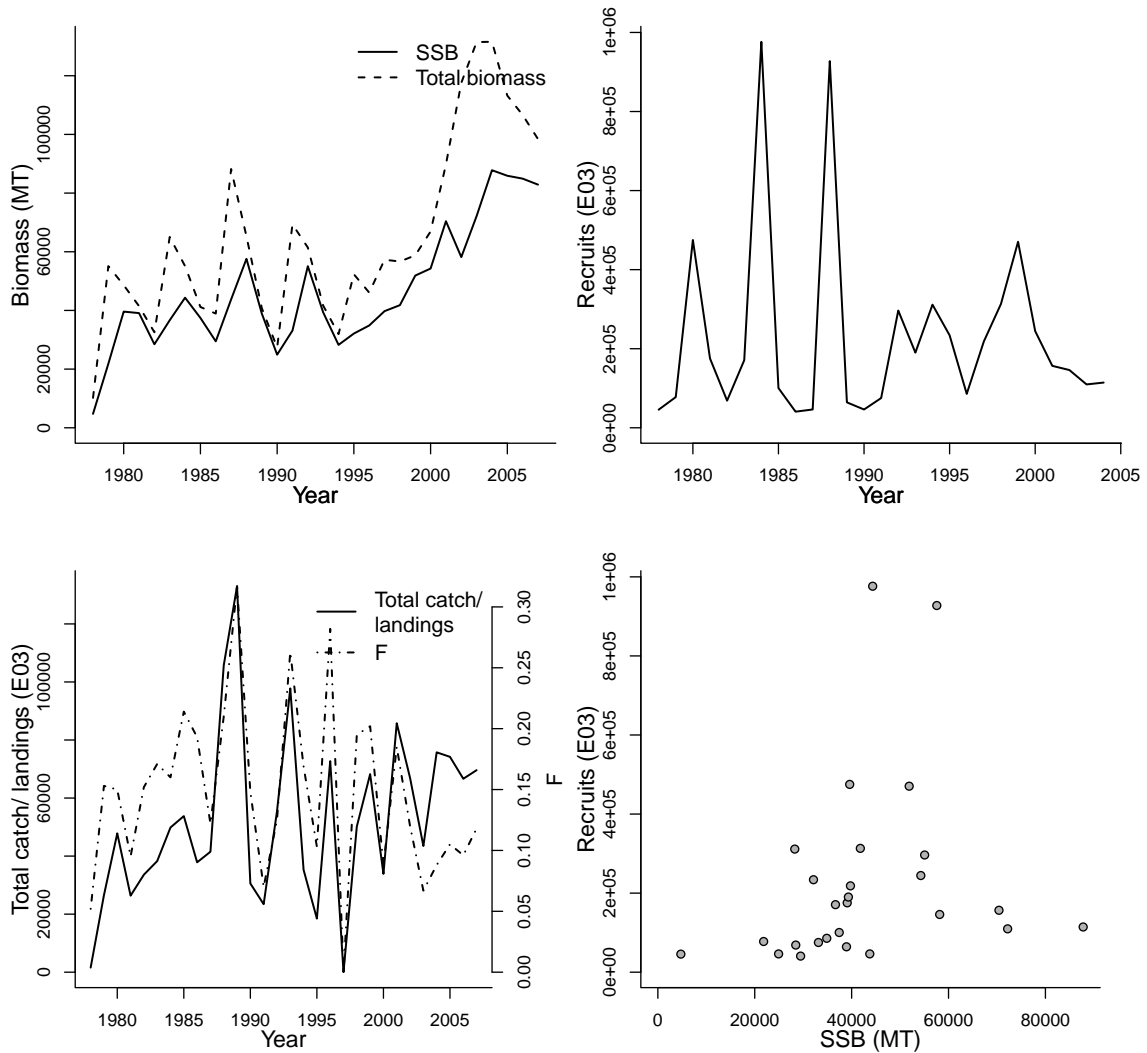
Detail	Value
Management body	NMFS
Assessment group	Alaska Department of Fish and Game
Assessment authors	
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	
Timeseries span	1978-2007
Document	NULL (pdf not in database)
Recorder	COLLIE
Date entered	2008-12-08
Date last 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		
2 - Gulf of Alaska		na	na		
Parameter	Value	Units			
SSB-AGE-yr	3+	yr			
REC-AGE-yr	3	yr			
F-AGE-yr-yr	3+	yr-yr	Reference points		
TB-AGE-yr	3+	yr	Parameter	Value	Units
A50-yr	3.4	yr			
M-1/yr	0.3-0.1	1/yr			
M					
L50-cm					

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1978	1978	1978	1978
Maximum year	2007	2004	2007	2007	2007
Time series minimum	4748.72	40750	0	10197.29	40
Time series maximum	87794.21	976340	0.317	131565.34	132990
Units	MT	E03	1/yr	MT	E03



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

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

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

Area ID: Canada-DFO-HS

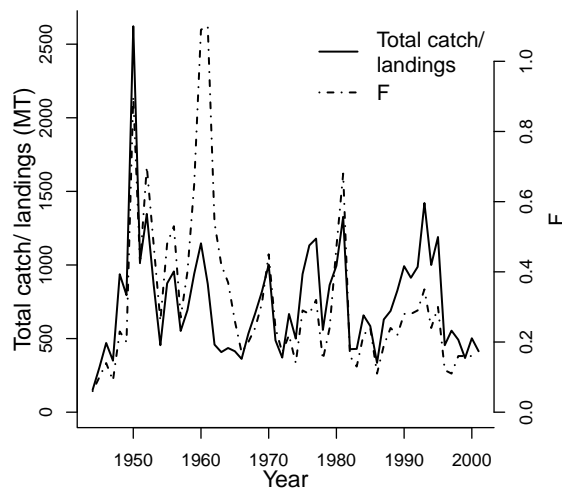
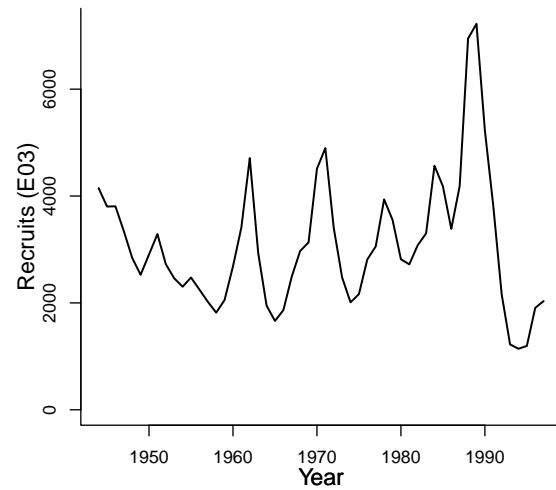
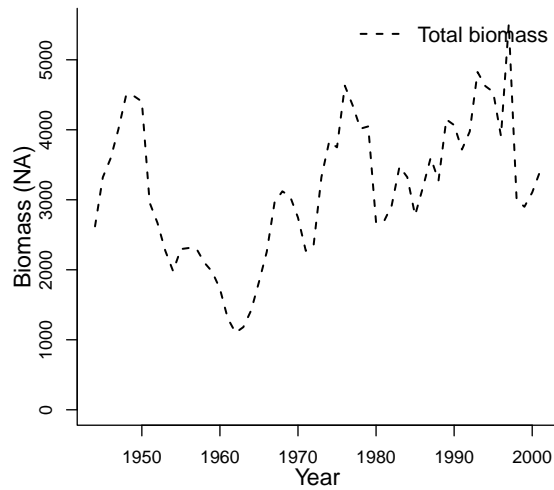
General assessment details.

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

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

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

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



No SSB–recruit
data available

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

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

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

Area ID: Canada-DFO-CC

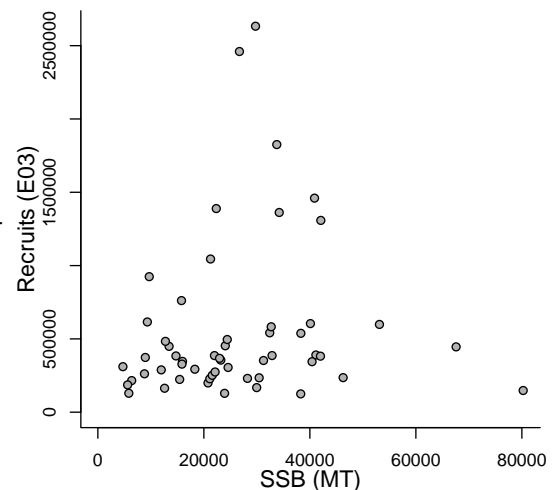
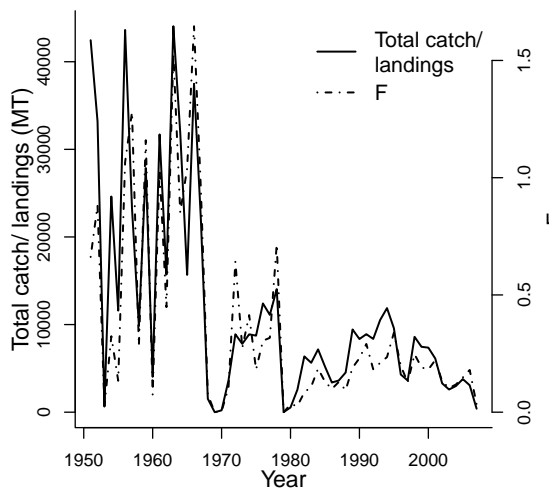
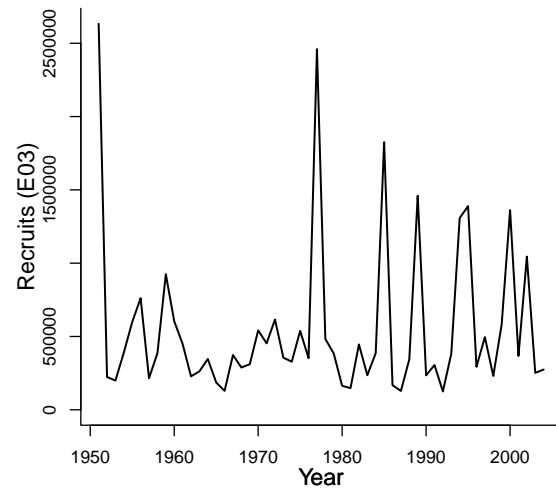
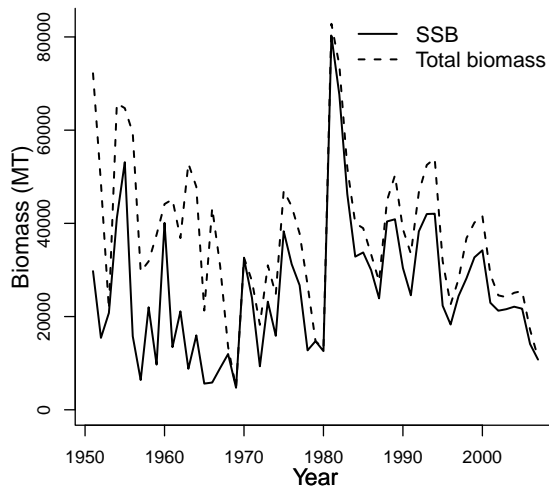
General assessment details.

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

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

			Parameter	Value	Units
primary LME	secondary LME	tertiary LME	REC-AGE-yr	3	yr
			SSB-AGE-yr		
2 - Gulf of Alaska	na	na	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	1951	1951	1951	1951	1951
Maximum year	2007	2004	2007	2007	2007
Time series minimum	4728	124900	0	4728	0
Time series maximum	80245.06	2632700	1.646	82818.06	44054
Units	MT	E03	1/yr	MT	MT



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

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

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

Area ID: Canada-DFO-PRD

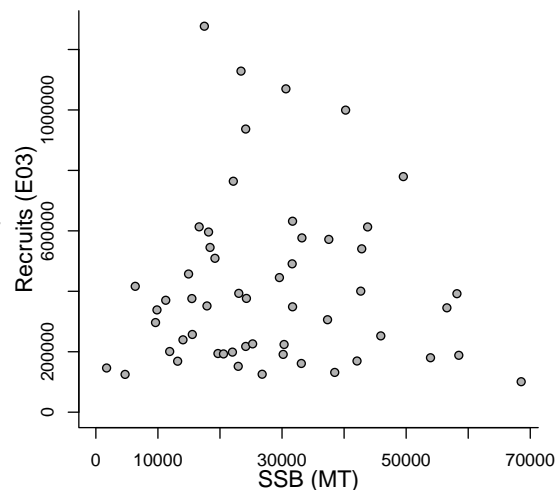
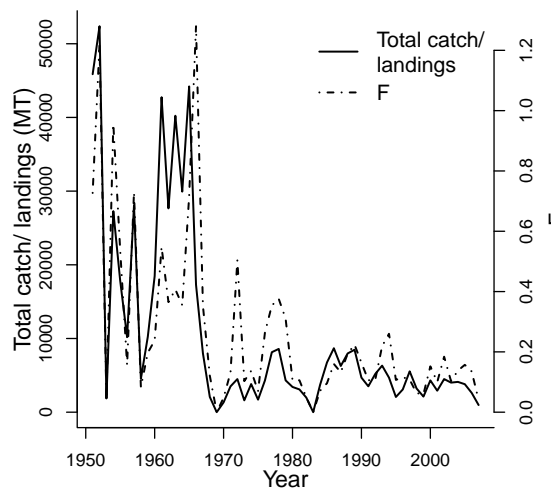
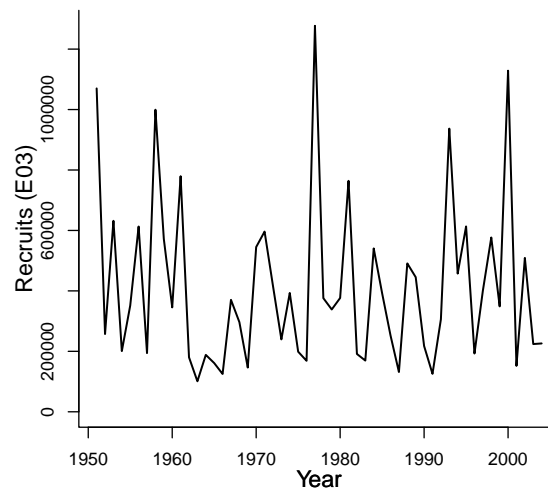
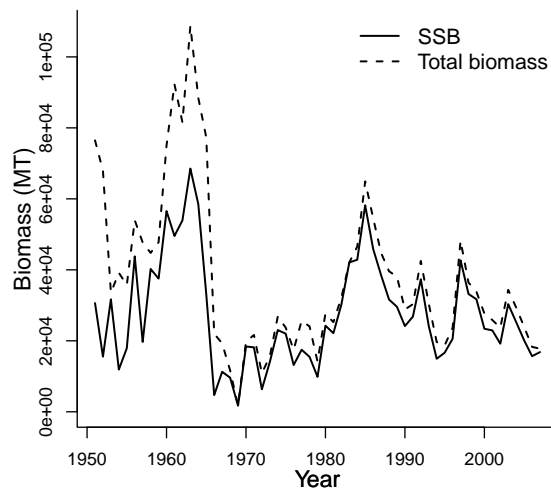
General assessment details.

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

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

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

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1951	1951	1951	1951	1951
Maximum year	2007	2004	2007	2007	2007
Time series minimum	1727.74	100900	0	1727.74	0
Time series maximum	68535.03	1277100	1.28	108763.03	52379
Units	MT	E03	1/yr	MT	MT



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

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

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

Area ID: Canada-DFO-QCI

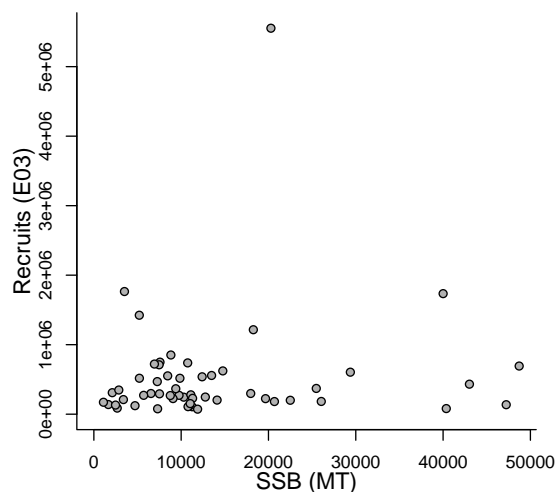
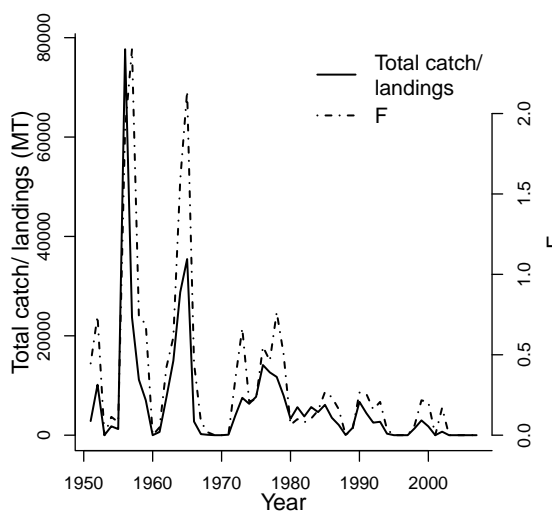
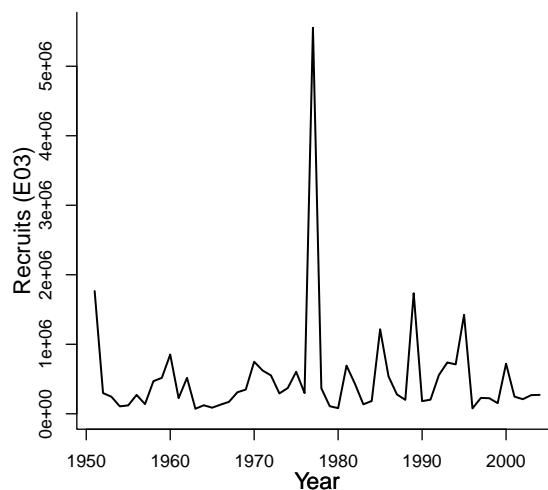
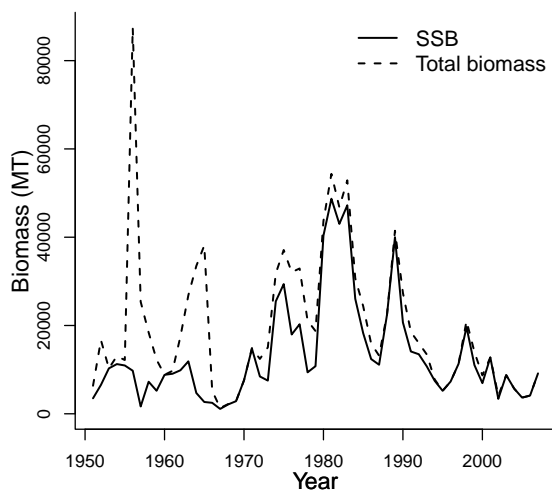
General assessment details.

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

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

			Parameter	Value	Units
primary LME	secondary LME	tertiary LME	REC-AGE-yr	3	yr
			SSB-AGE-yr		
2 - Gulf of Alaska	na	na	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	1951	1951	1951	1951	1951
Maximum year	2007	2004	2007	2007	2007
Time series minimum	1098.02	72400	0	1311.02	0
Time series maximum	48715.62	5553000	2.4	87437.09	77681
Units	MT	E03	1/yr	MT	MT



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

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

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

Area ID: Canada-DFO-SOG

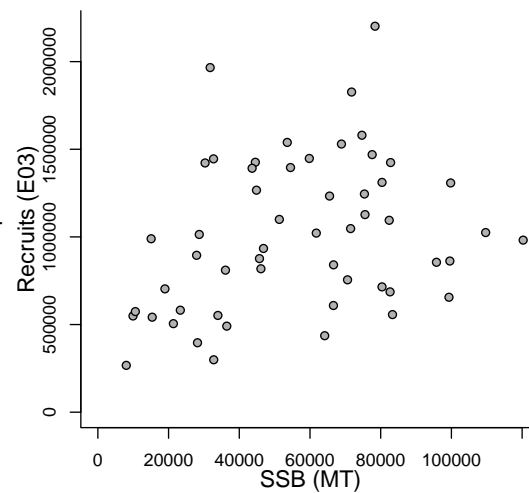
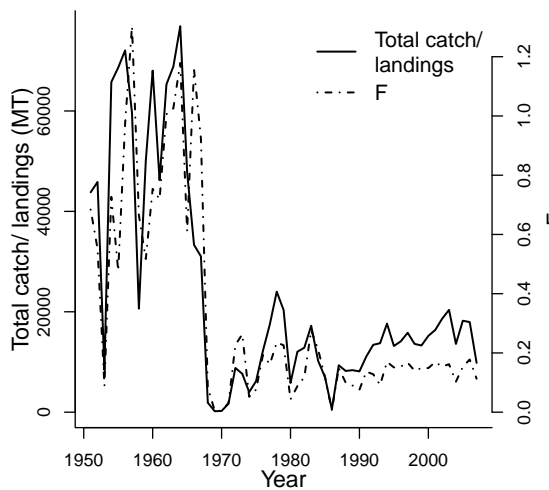
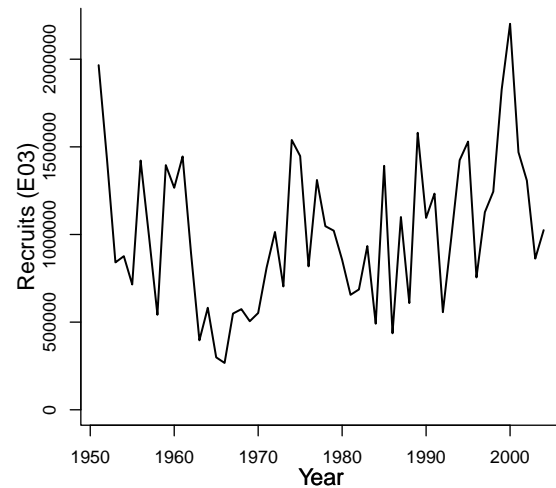
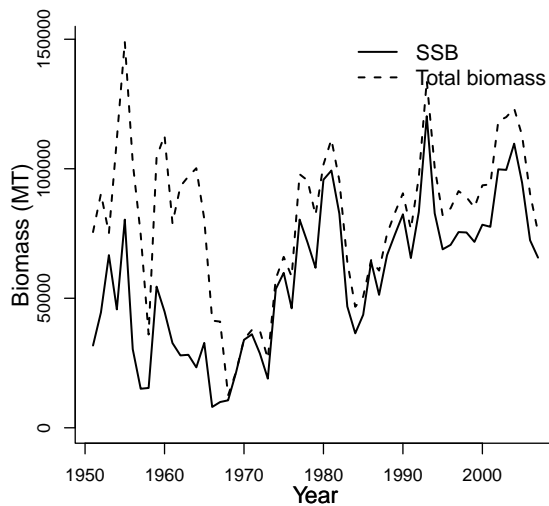
General assessment details.

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

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

			Parameter	Value	Units
primary LME	secondary LME	tertiary LME	REC-AGE-yr	3	yr
			SSB-AGE-yr		
2 - Gulf of Alaska	na	na	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	1951	1951	1951	1951	1951
Maximum year	2007	2004	2007	2007	2007
Time series minimum	8039.02	267200	0.005	12492.81	194
Time series maximum	120297.96	2202000	1.303	149010.43	76881
Units	MT	E03	1/yr	MT	MT



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

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

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

Area ID: Canada-DFO-WCVANI

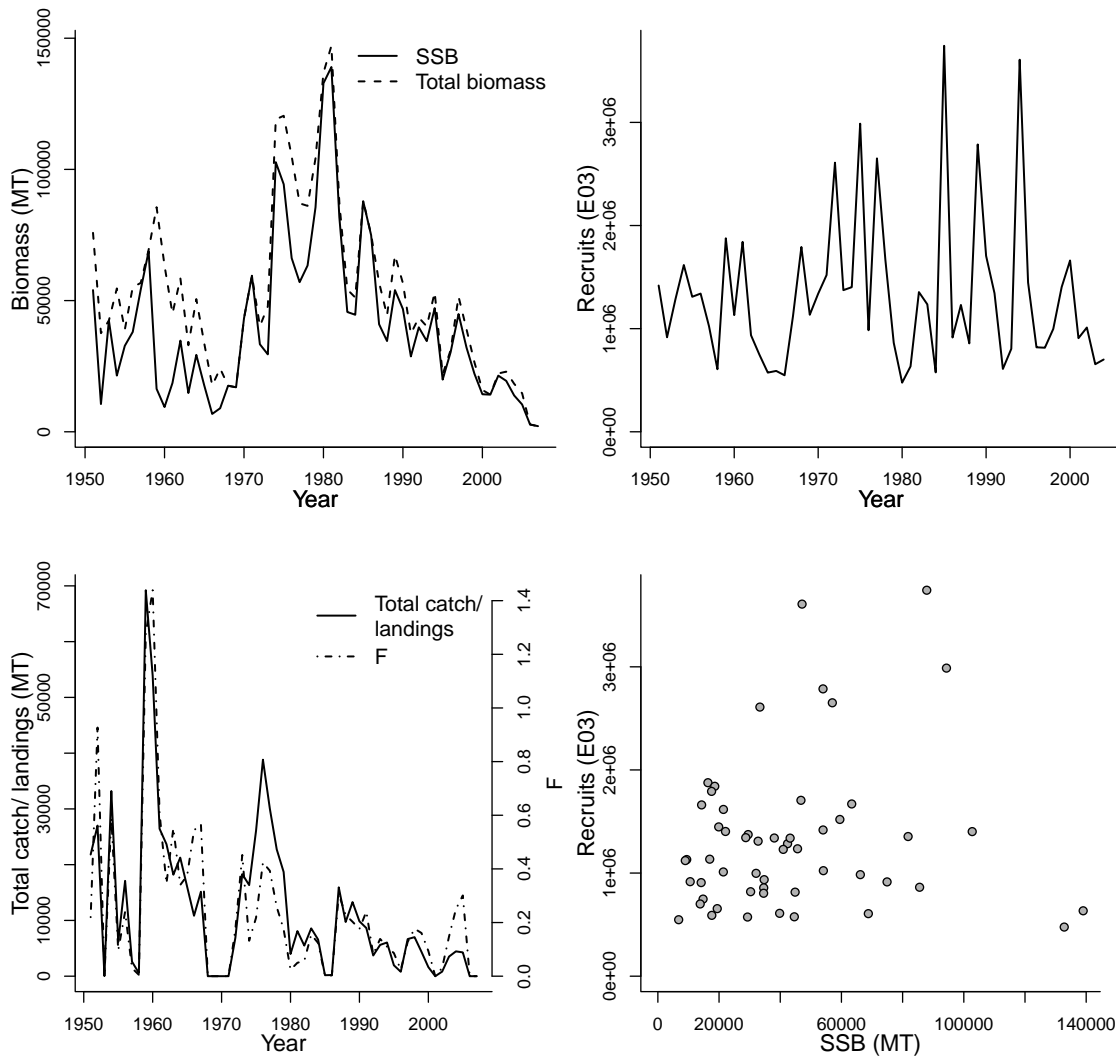
General assessment details.

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

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

			Parameter	Value	Units	
primary LME	secondary LME	tertiary LME	REC-AGE-yr	3	yr	
			SSB-AGE-yr			
2 - Gulf of Alaska	na	na	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	1951	1951	1951	1951	1951
Maximum year	2007	2004	2007	2007	2007
Time series minimum	2144.14	476400	0	2144.14	0
Time series maximum	139015.21	3742800	1.439	147104.21	69223
Units	MT	E03	1/yr	MT	MT



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

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

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

Area ID: Canada-DFO-HS

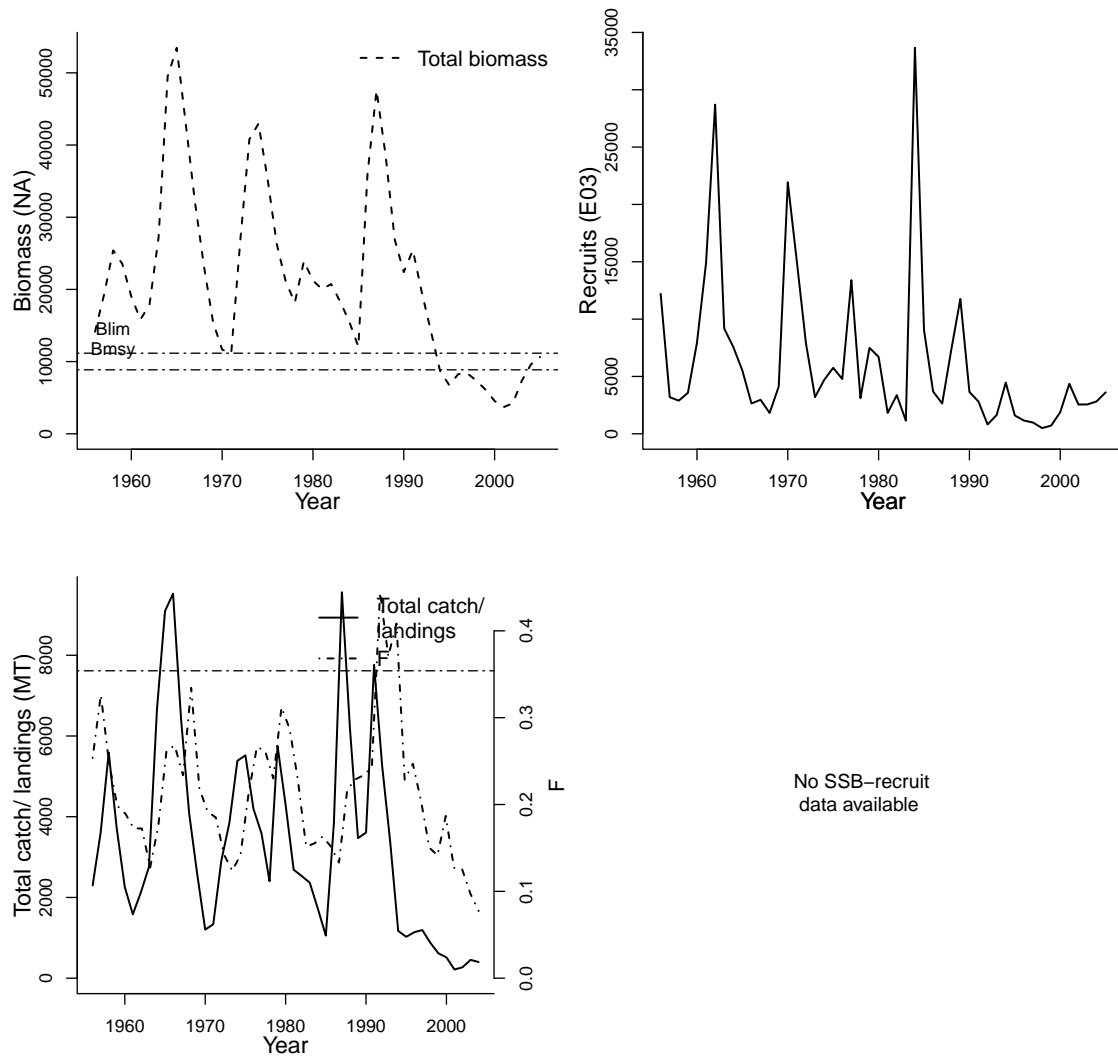
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Sinclair, A.F.
Assessment method	Delay difference model
Publication year	2005
Timeseries span	1956-2005
Document	RES2005_026.Cod.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-04-08
Date last loaded	2009-05-13
QA/QC complete	YES
Date approved	2009-05-13

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

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

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



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

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

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

Area ID: Canada-DFO-WCVANI

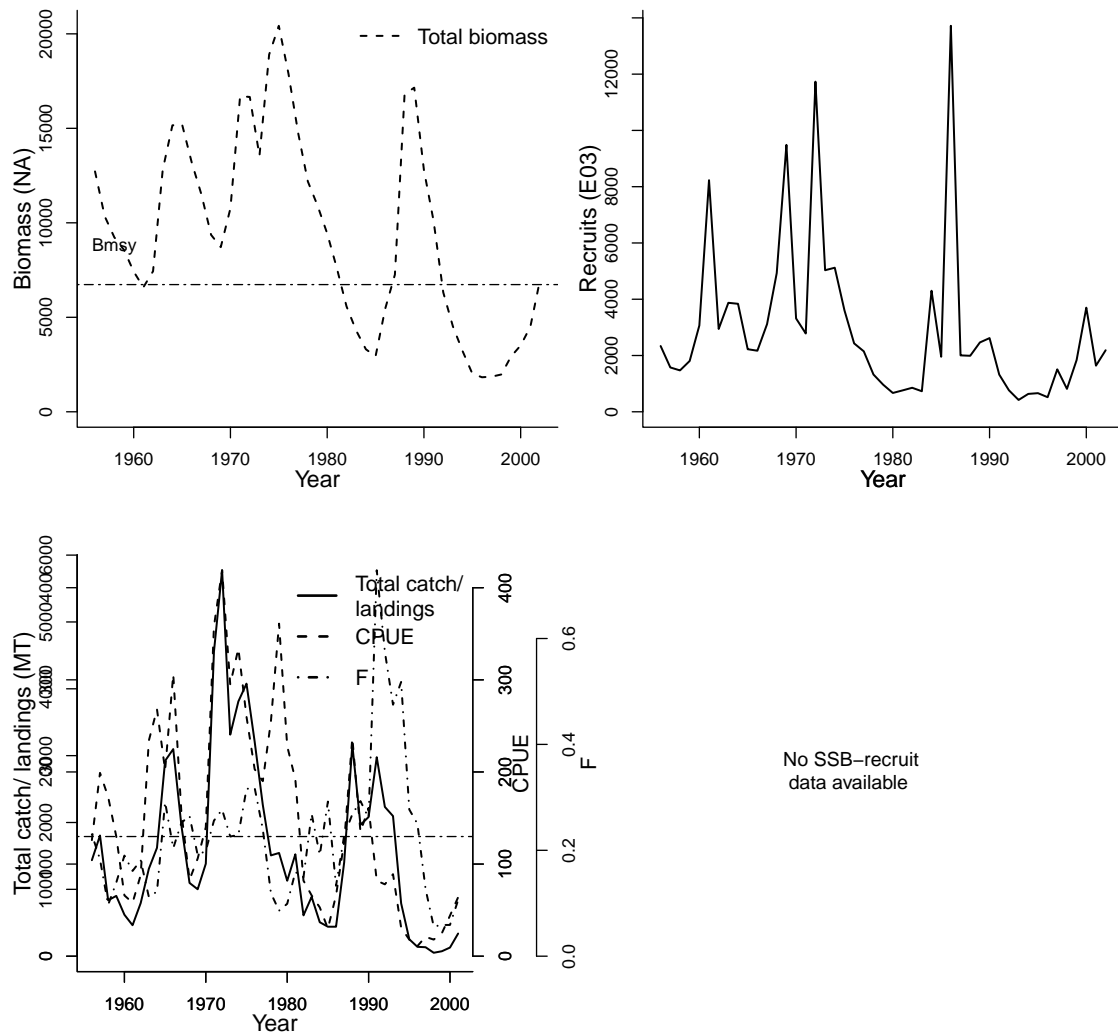
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Pacific Region
Assessment authors	Sinclair, A.F.
Assessment method	Delay difference model
Publication year	2002
Timeseries span	1956-2002
Document	2002-113.pdf (pdf in database)
Recorder	COLLIE
Date entered	2008-04-13
Date last loaded	2009-03-17
QA/QC complete	YES
Date approved	2009-05-13

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

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

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



Assessment of Hecate Strait rock sole (*Lepidopsetta bilineata*)

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

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

Area ID: Canada-DFO-HS

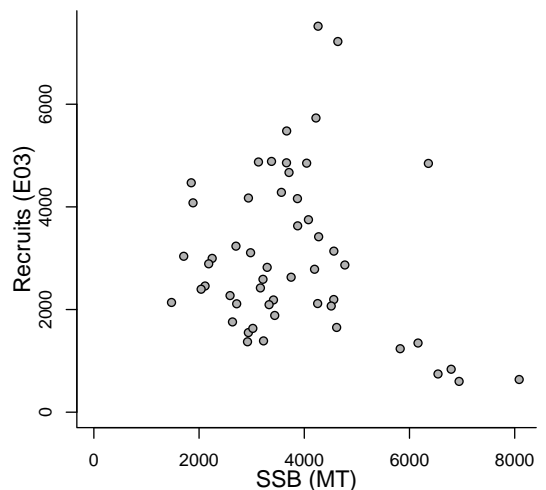
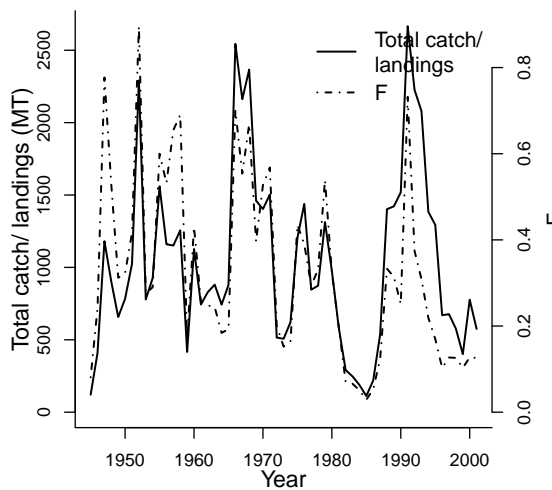
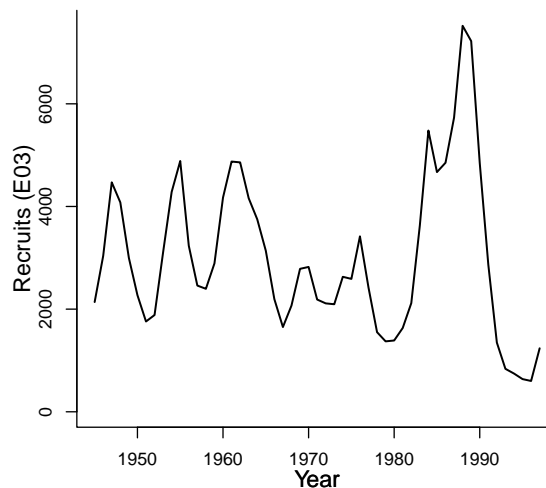
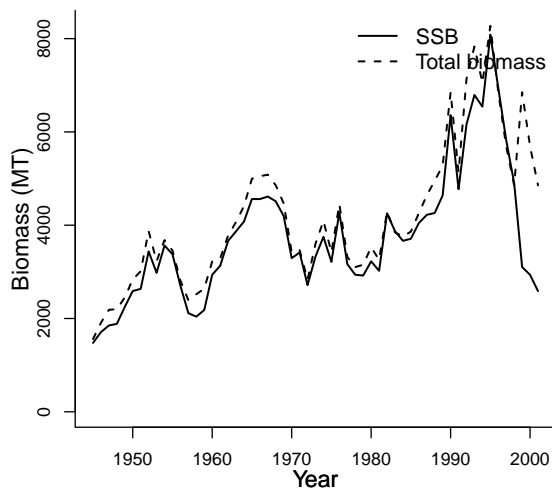
General assessment details.

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

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

			Parameter	Value	Units
primary LME	secondary LME	tertiary LME	M-1/yr	0.2	1/yr
			TB-AGE-yr	4+	yr
			REC-AGE-yr	4	yr
			SSB-AGE-yr		
			F-AGE-yr		
			M		
			A50-yr		
			L50-cm		
			Reference points		
			Parameter	Value	Units
			F0.1-1/yr (F)	0.22	1/yr

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



Assessment of Rhode Island american lobster (*Homarus americanus*)

Assessment ID: RIDEM-LOBSTERRI-1959-2007-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/312>

Area ID: USA-US State-RI

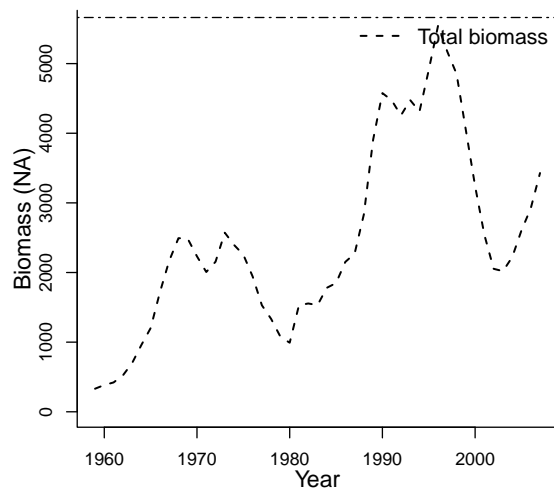
General assessment details.

Detail	Value
Management body	US State
Assessment group	Rhode Island Department of Environmental Management
Assessment authors	Gibson, Mark
Assessment method	Age-aggregated surplus production model
Publication year	2008
Timeseries span	1959-2007
Document	NULL (pdf not in database)
Recorder	COLLIE
Date entered	2008-04-12
Date last loaded	2009-05-13
QA/QC complete	YES
Date approved	2009-05-13

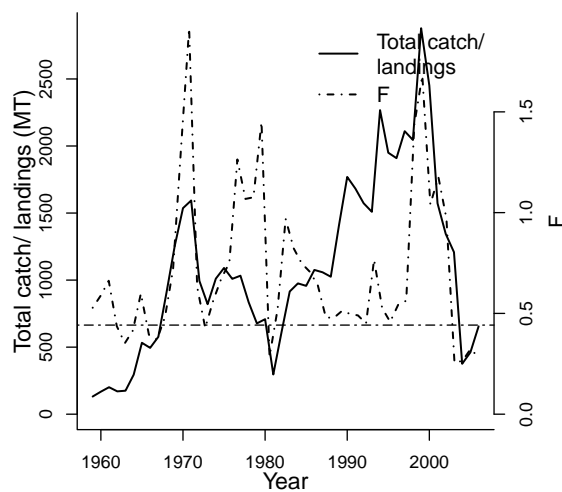
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf			na	na
Parameter	Value	Units	Reference points	
REC-AGE			Parameter	Value Units
SSB-AGE-yr			Bmsy-MT (TB)	5662 MT
TB-AGE-yr			Fmsy-1/yr (F)	0.442 1/yr
F-AGE-yr			Fext-1/yr (F)	0.884 1/yr
M			TB_{2007}/B_{msy}	0.606
A50-yr			F_{2007}/F_{msy}	0.640
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1959	1959	1959
Maximum year			2007	2007	2006
Time series minimum			0.255	330.892	131.581
Time series maximum			1.915	5542.814	2878.455
Units			1/T	MT	MT



No recruitment
data available



No SSB–recruit
data available

Assessment of Rhode Island tautog (*Tautoga onitis*)

Assessment ID: RIDEM-TAUTOGRI-1959-2007-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/313>

Area ID: USA-US State-RI

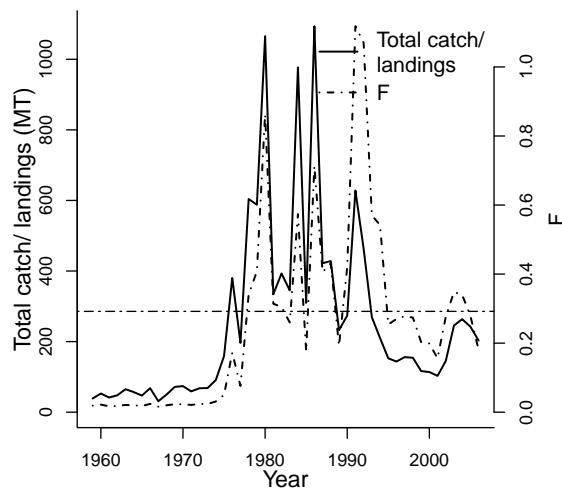
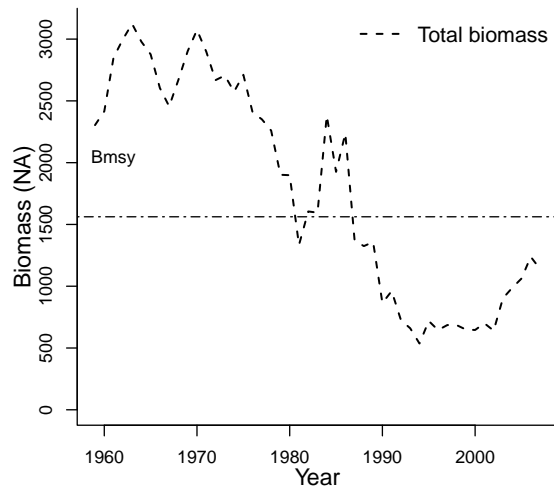
General assessment details.

Detail	Value
Management body	US State
Assessment group	Rhode Island Department of Environmental Management
Assessment authors	Gibson, Mark
Assessment method	Age-aggregated surplus production model
Publication year	2008
Timeseries span	1959-2007
Document	NULL (pdf not in database)
Recorder	COLLIE
Date entered	2008-04-12
Date last loaded	2009-05-14
QA/QC complete	YES
Date approved	2009-05-14

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

primary LME			secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf			na	na
Parameter	Value	Units	Reference points	
			Parameter	Value Units
REC-AGE			MSY-MT (TB)	369.56 MT
SSB-AGE-yr			F _{msy} -1/yr (F)	0.292 1/yr
TB-AGE-yr			F _{ext} -1/yr (F)	0.584 1/yr
F-AGE-yr			B _{msy} -MT (TB)	1562 MT
M			TB_{2007}/B_{msy}	0.729
A50-yr			F_{2006}/F_{msy}	0.620
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1959	1959	1959
Maximum year			2006	2007	2006
Time series minimum			0.016	536.293	30.997
Time series maximum			1.118	3123.86	1093.669
Units			1/T	MT	MT



Assessment of Rhode Island winter flounder (*Pseudopleuronectes americanus*)

Assessment ID:RIDEM-WINFLOUNDRI-1959-2007-COLLIE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/314>

Area ID: USA-US State-RI

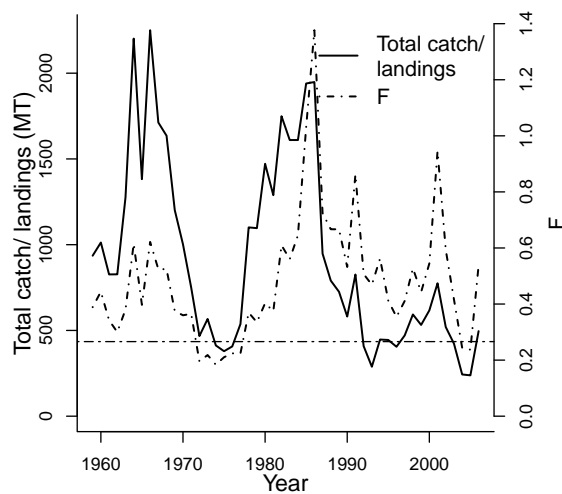
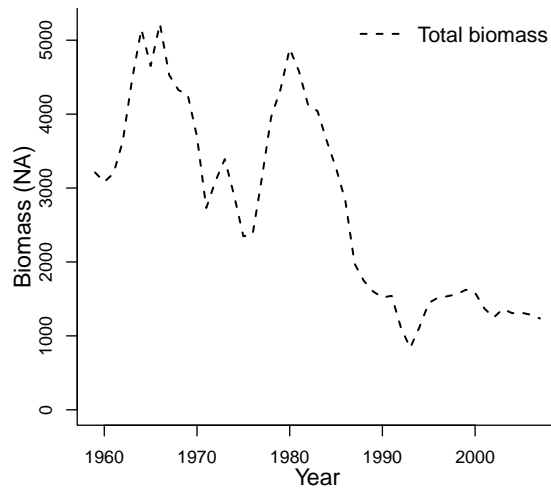
General assessment details.

Detail	Value
Management body	US State
Assessment group	Rhode Island Department of Environmental Management
Assessment authors	Gibson, Mark, Rhode Island Department of Environmental Management, mark.gibson@dem.ri.gov
Assessment method	Age-aggregated surplus production model
Publication year	2008
Timeseries span	1959-2007
Document	NULL (pdf not in database)
Recorder	COLLIE
Date entered	2008-04-12
Date last loaded	2009-05-14
QA/QC complete	YES
Date approved	2009-05-14

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

primary LME			secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf			na	na
Parameter	Value	Units	Reference points	
M-1/T	0.2	1/T	Parameter	Value
REC-AGE				Units
SSB-AGE-yr			Bmsy-MT (TB)	5478
TB-AGE-yr			Fmsy-1/yr (F)	0.266
F-AGE-yr			Fext-1/yr (F)	0.532
M			TB_{2007}/B_{msy}	0.225
A50-yr			F_{2006}/F_{msy}	2.022
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1959	1959	1959
Maximum year			2006	2007	2006
Time series minimum			0.1836	837.8442	238.1142
Time series maximum			1.3767	5222.0217	2250.6061
Units			1/yr	MT	MT



Large Marine Ecosystems of the World and Linked Watersheds

MAP KEY:

- LME Numbers:**
1. East African Rift
 2. California Current
 3. Gulf of Mexico
 4. Northwest U.S. Continental Shelf
 5. Northeast U.S. Continental Shelf
 6. New Zealand-Labrador Shelf
 7. Pacific Central American Coastal
 8. Pacific Central American Shelf
 9. Hawaiian Islands
 10. Hawaiian Ridge
 11. Hawaiian Trench
 12. Hawaiian Plateau
 13. Hawaiian Seamounts
 14. Hawaiian Trench
 15. Hawaiian Ridge
 16. Hawaiian Plateau
 17. Hawaiian Seamounts
 18. Hawaiian Trench
 19. Hawaiian Ridge
 20. Hawaiian Plateau
 21. Hawaiian Seamounts
 22. Hawaiian Trench
 23. Hawaiian Ridge
 24. Hawaiian Plateau
 25. Hawaiian Seamounts
 26. Hawaiian Trench
 27. Hawaiian Ridge
 28. Hawaiian Plateau
 29. Hawaiian Seamounts
 30. Hawaiian Trench
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 93. Hawaiian Seamounts
 94. Hawaiian Trench
 95. Hawaiian Ridge
 96. Hawaiian Plateau
 97. Hawaiian Seamounts
 98. Hawaiian Trench
 99. Hawaiian Ridge
 100. Hawaiian Plateau

- Large Marine Ecosystems**
- Watershed Boundaries**
- Political Boundaries**

