

DFO stock assessments (for the Royal Society of
Canada - Expert Panel on Oceans Health and
Biodiversity)

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Chapter 1

Introduction

This document is a compilation of the marine stocks assessed by the Department of Fisheries and Oceans and is meant to guide discussion for the Royal Society of Canada's Expert Panel on Oceans Health and Biodiversity.

Chapter 2

Summary plots

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

Assessment ID:DFO-QUE-HERR4RFA-1973-2003-PREFONTAINE
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/167>

Area ID: Canada-DFO-4R

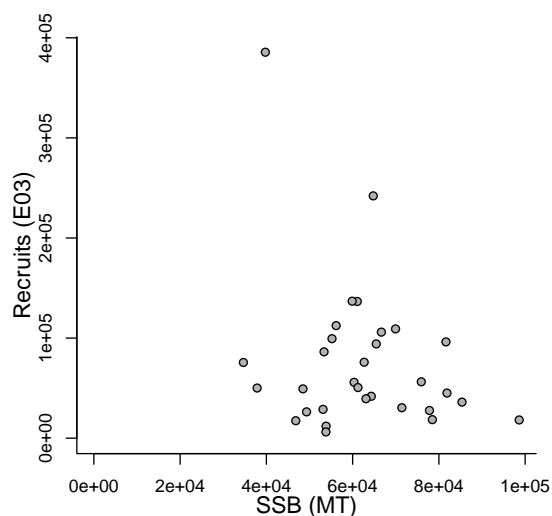
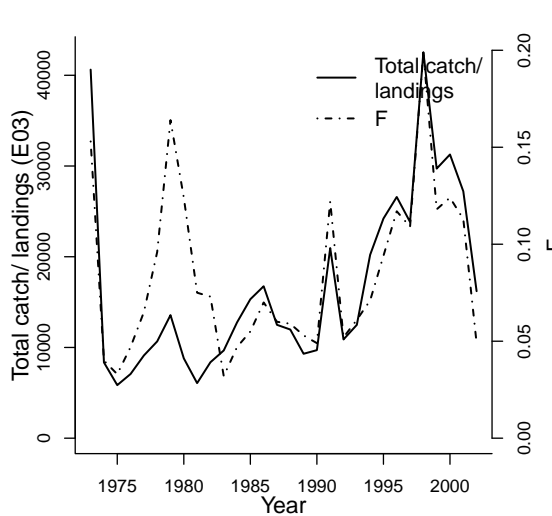
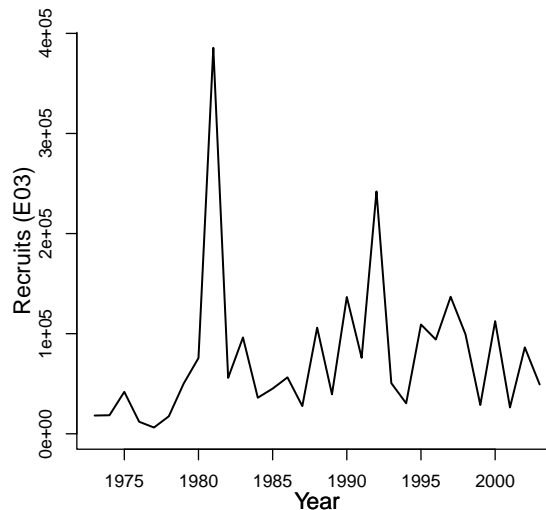
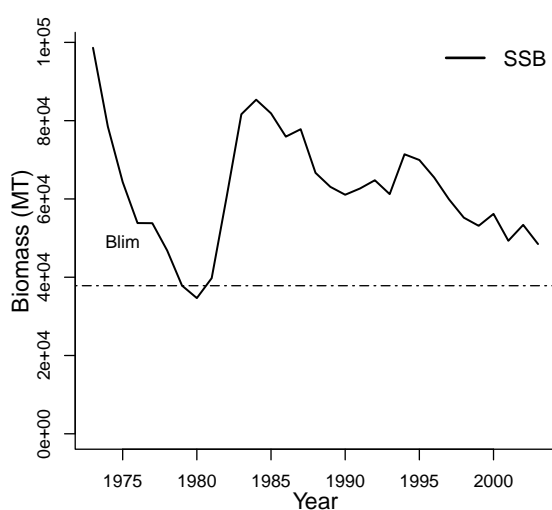
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Quebec Region
Assessment authors	Gregoire, Francois
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2004
Timeseries span	1973-2003
Document	NAFO-HERR4RFA-2004.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-05
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME	
9 - Newfoundland-Labrador Shelf			na	na	
Parameter	Value	Units			
SSB-AGE-yr	2+	yr	Reference points		
REC-AGE-yr	2	yr	Parameter	Value	Units
F-AGE-yr-yr	4+	yr-yr	Blim-MT (TB)	37831	MT
A50-yr	4-5	yr	F0.1-1/yr (F)	0.3	1/yr
M-1/T	0.2	1/T	Fmax-1/yr (F)	0.55	1/yr
TB-AGE-yr			Bbuf-MT (TB)	57453	MT
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1973	1973		1973
Maximum year	2003	2003	2002		2002
Time series minimum	34671	6244	0.032		5849
Time series maximum	98616	385586	0.199		42543
Units	MT	E03	1/T		E03



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

Assessment ID:DFO-QUE-HERR4RSP-1965-2004-PREFONTAINE
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/168>

Area ID: Canada-DFO-4R

General assessment details.

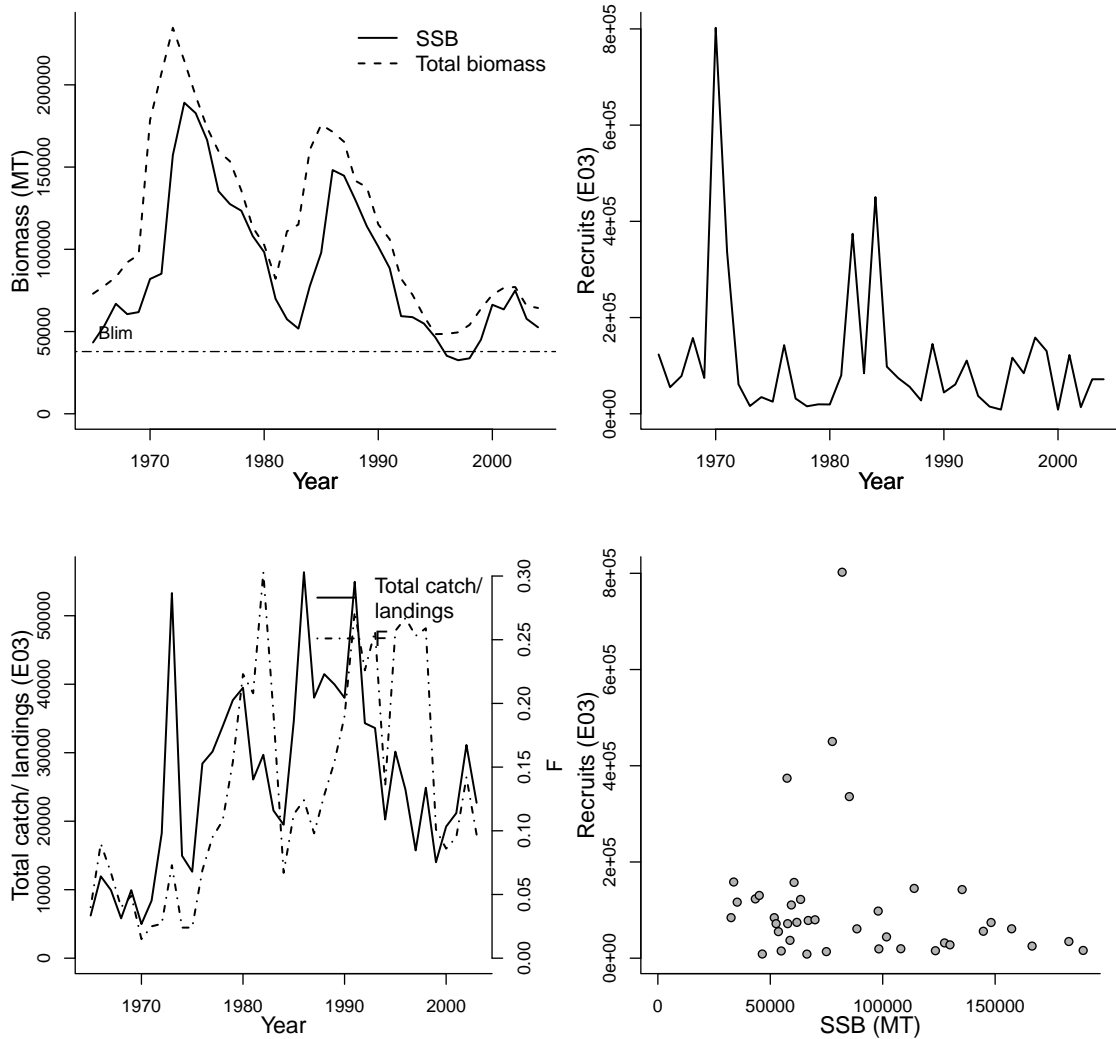
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Quebec Region
Assessment authors	Gregoire, Francois
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2004
Timeseries span	1965-2004
Document	NAFO-HERR4RSP-2004.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-05-30
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	
9 - Newfoundland-Labrador Shelf			na	na	
Parameter	Value	Units			
SSB-AGE-yr	2+	yr	Reference points		
REC-AGE-yr	2	yr	Parameter	Value	Units
F-AGE-yr-yr	4+	yr-yr	Blim-MT (TB)	37831	MT
A50-yr	3-4	yr	F0.1-1/yr (F)	0.3	1/yr
M-1/T	0.2	1/T	Fmax-1/yr (F)	0.55	1/yr
TB-AGE-yr			Bbuf-MT (TB)	57453	MT
M					
L50-cm					

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1965	1965	1965	1965	1965
Maximum year	2004	2004	2003	2004	2003
Time series minimum	32559	8533	0.015	48431	4983
Time series maximum	189156	802298	0.303	234686	56356
Units	MT	E03	1/T	MT	E03



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

Assessment ID:DFO-SG-HERR4TFA-1978-2007-PREFONTAINE

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

Area ID: Canada-DFO-4T

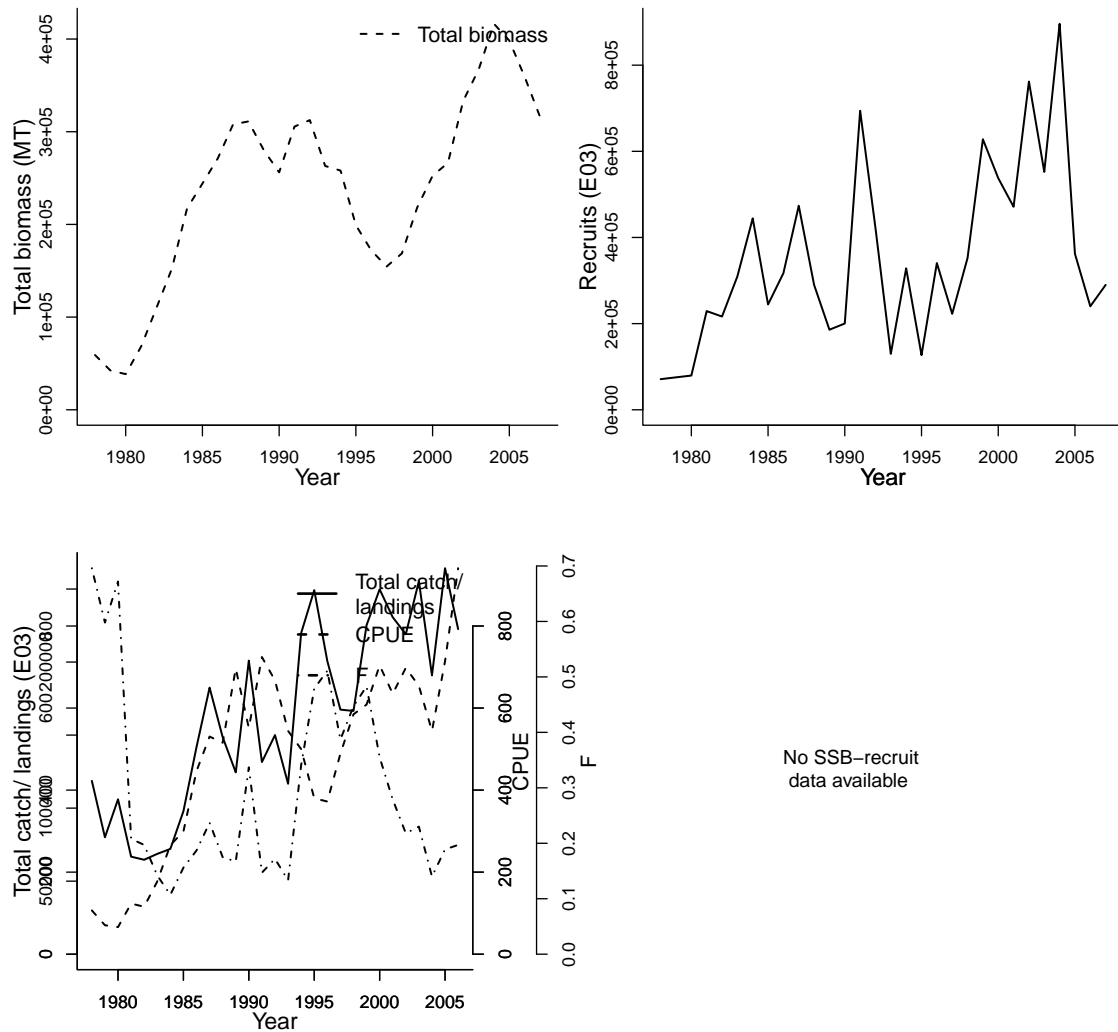
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Southern Gulf Region
Assessment authors	LeBlanc, C.H.
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2007
Timeseries span	1978-2007
Document	NAFO-HERR4TFA-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-05
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
primary LME	secondary LME	tertiary LME	REC-AGE-yr	4	yr
			F-AGE-yr-yr	2-10	yr-yr
			TB-AGE-yr	4+	yr
			M-1/T	0.2	1/T
8 - Scotian Shelf	na	na	SSB-AGE-yr		
			M		
			A50-yr		
			L50-cm		
			Reference points		
			Parameter	Value	Units
			Busr-MT	172000	MT
			Blrp-MT	51000	MT
			SSB recovery-MT	37000	MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year		1978	1978	1978	1978
Maximum year		2007	2006	2007	2006
Time series minimum		71101	0.107	38470	64654
Time series maximum		896001	0.696	416422	264254
Units		E03	1/T	MT	E03



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

Assessment ID:DFO-SG-HERR4TSP-1978-2007-PREFONTAINE

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

Area ID: Canada-DFO-4T

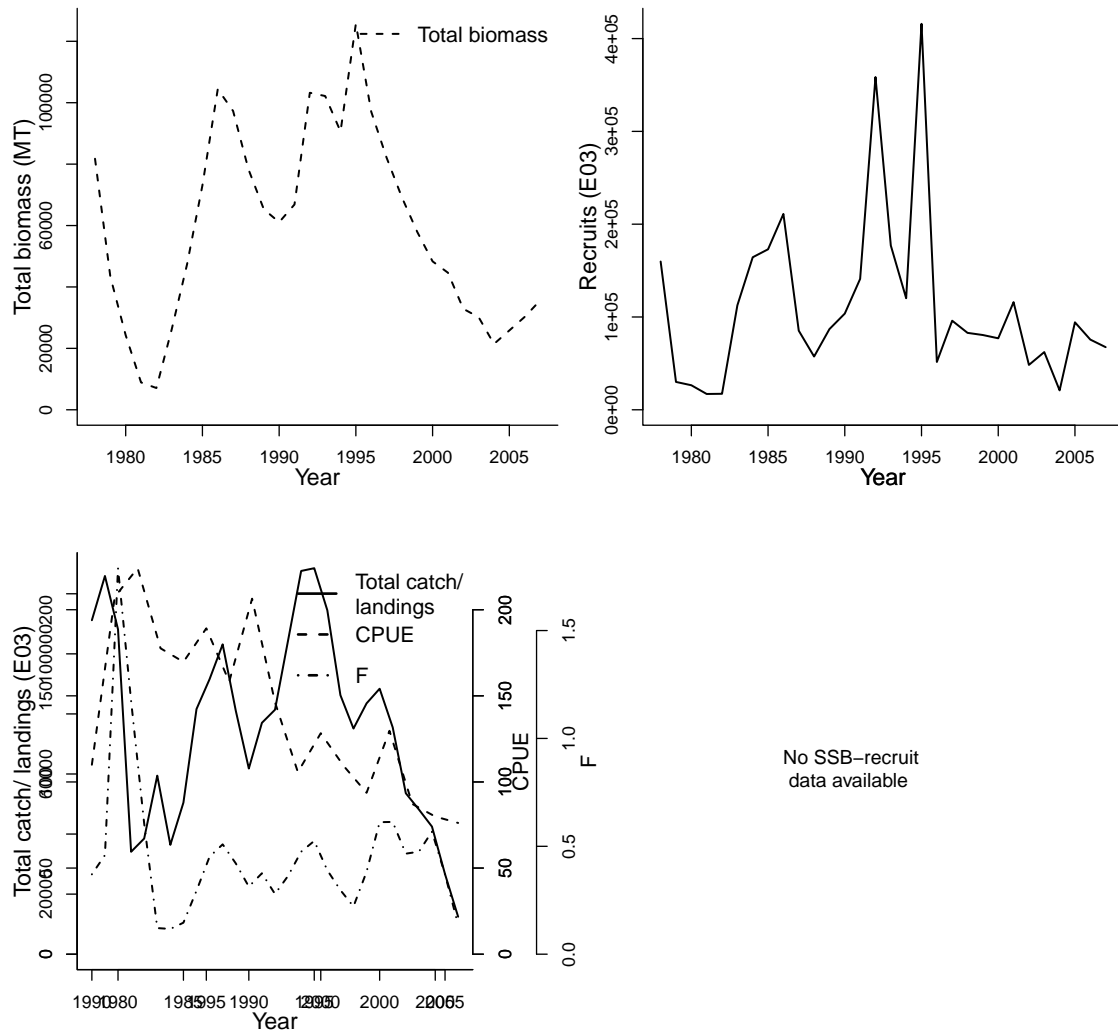
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Southern Gulf Region
Assessment authors	LeBlanc, C.H.
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2007
Timeseries span	1978-2007
Document	NAFO-HERR4T-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-05
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
primary LME	secondary LME	tertiary LME	REC-AGE-yr	4	yr
			F-AGE-yr-yr	6-8	yr-yr
			TB-AGE-yr	4-10	yr
8 - Scotian Shelf	na	na	M-1/T	0.2	1/T
			SSB-AGE-yr		
			M		
			A50-yr		
			L50-cm		
			Reference points		
			Parameter	Value	Units
			F0.1-1/yr (F)	0.35	1/yr
			Busr-MT	54000	MT
			Blrp-MT	22000	MT
			SSB recovery-MT	11500	MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year		1978	1978	1978	1978
Maximum year		2007	2006	2007	2006
Time series minimum		17034	0.117	7085	12464
Time series maximum		415931	1.789	125698	128513
Units		E03	1/T	MT	E03



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

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

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

Area ID: Canada-DFO-4VWX

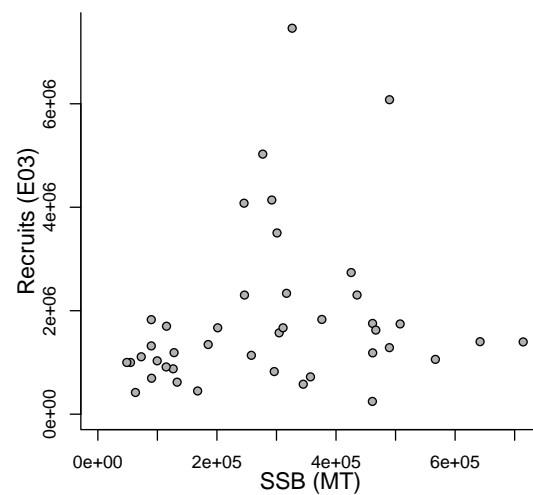
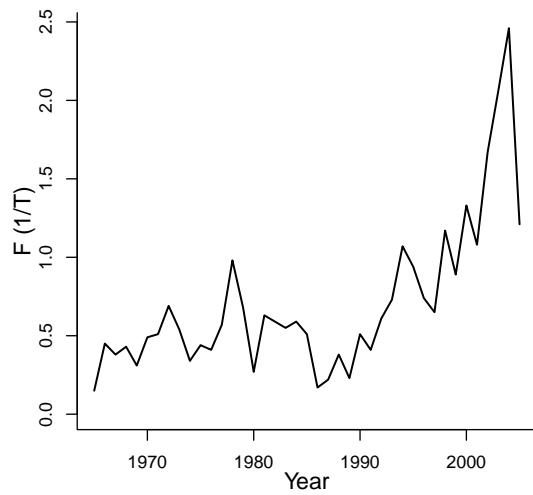
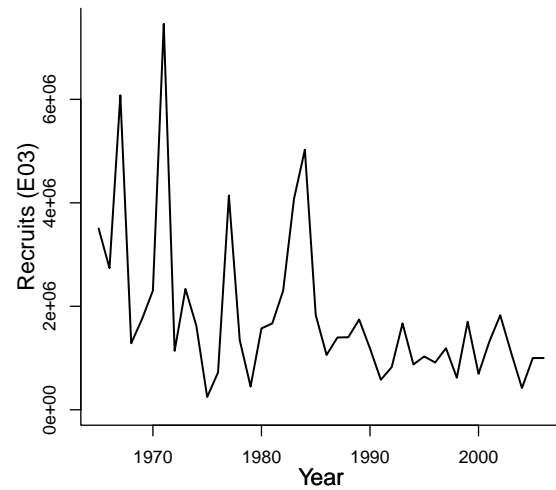
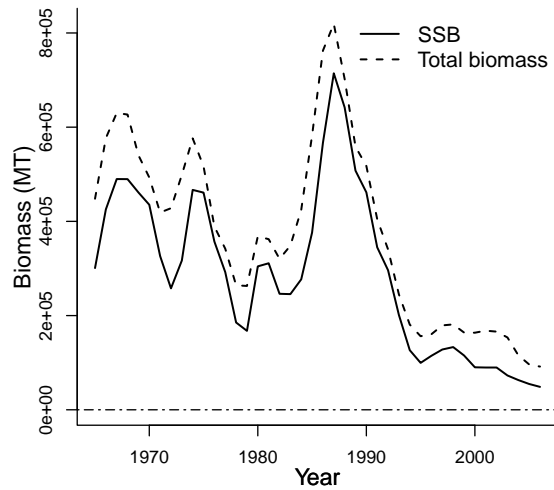
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans
Assessment authors	Power, M.J.
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2006
Timeseries span	1965-2006
Document	NAFO-HERR4VWX-2006.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-02
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

			Parameter	Value	Units
primary LME	secondary LME	tertiary LME	SSB-AGE-yr	3+	yr
			REC-AGE-yr	1	yr
			F-AGE-yr-yr	5-8	yr-yr
			TB-AGE-yr	NA	yr
			A50-yr	3	yr
			M-1/T	0.2	1/T
			M		
8 - Scotian Shelf	na	na	L50-cm		
Reference points					
Parameter	Value				Units
Bmsy-MT (TB)	SEE NOTES				MT
F0.1-1/yr (F)	0.23				1/yr
Fmax-1/yr (F)	0.57				1/yr
BH-h-dimless	4 to 8 compared with ages 5-9 the following year				dimless

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1965	1965	1965	1965	
Maximum year	2006	2006	2005	2006	
Time series minimum	48646	247148	0.15	91734	
Time series maximum	714331	7460417	2.46	819446	
Units	MT	E03	1/T	MT	



Assessment of 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

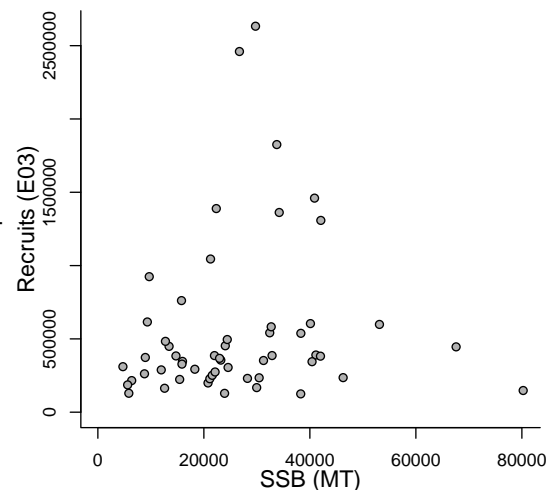
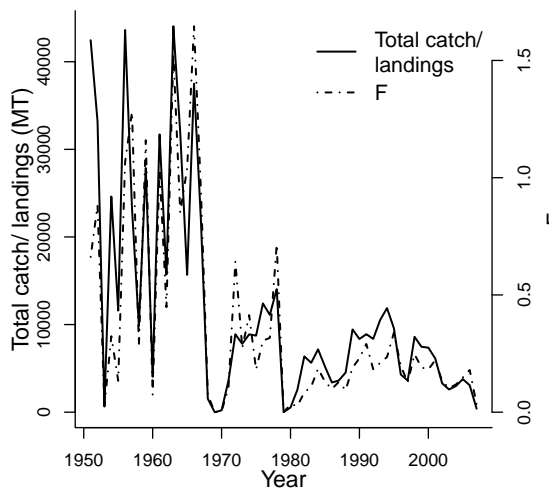
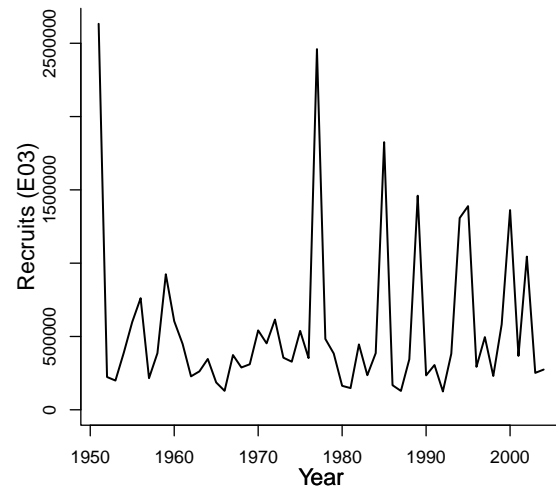
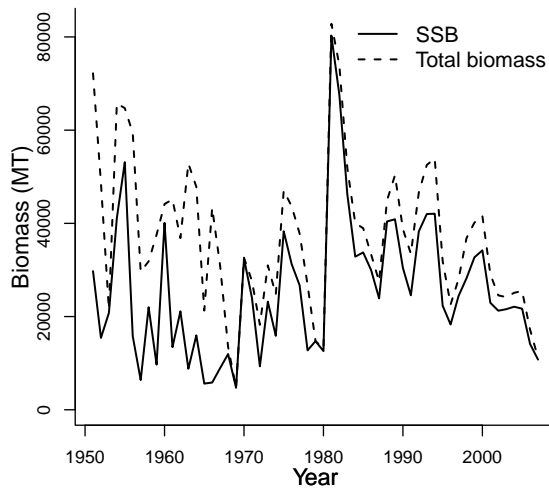
General assessment details.

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

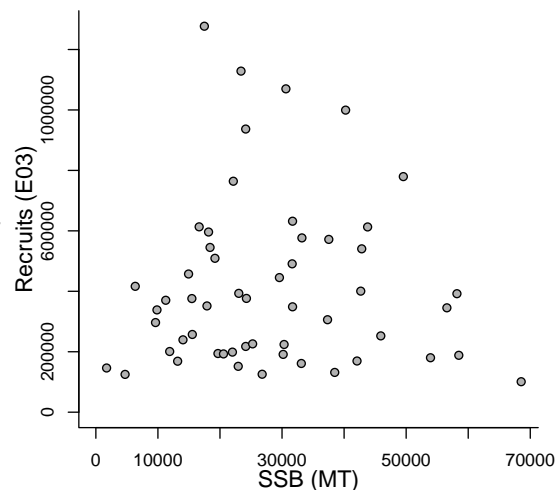
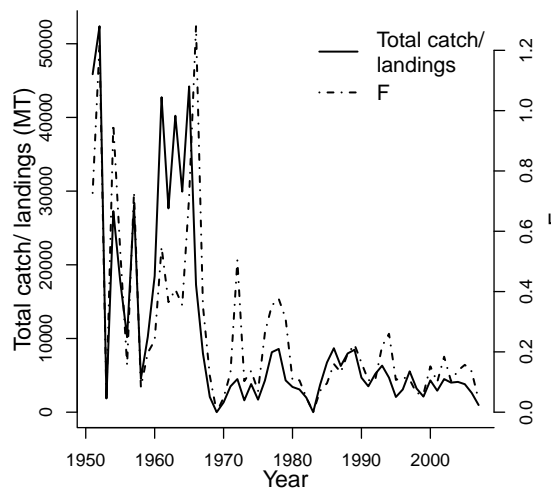
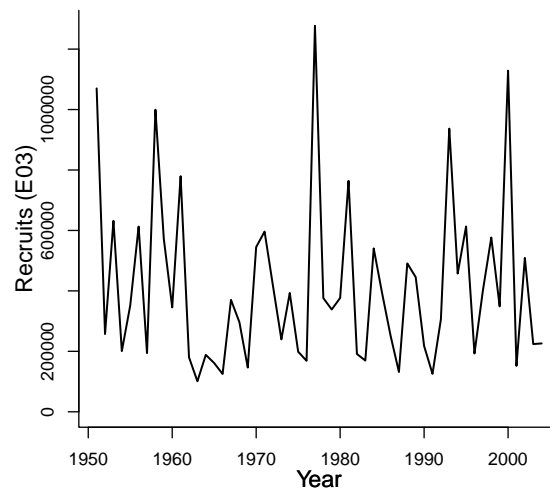
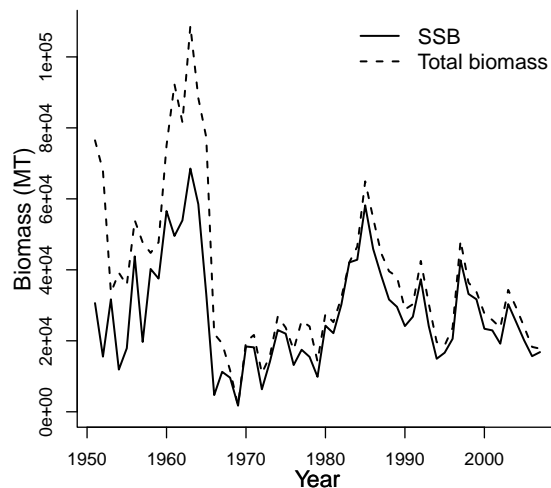
General assessment details.

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				
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	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

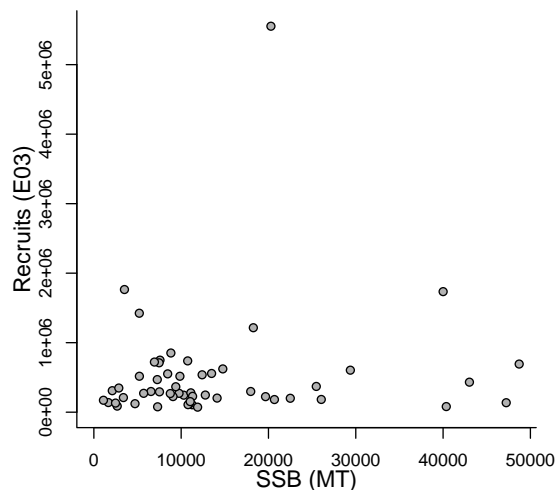
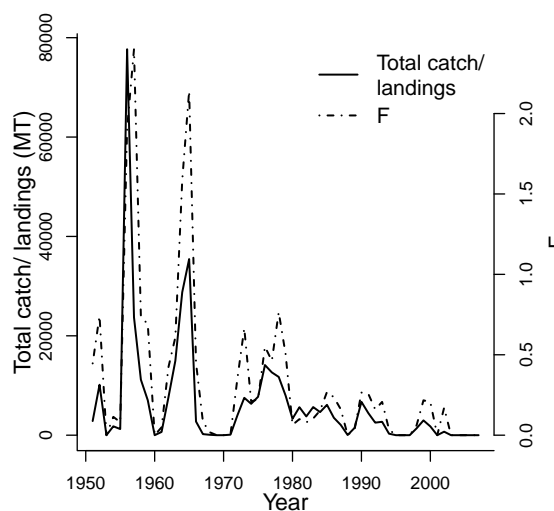
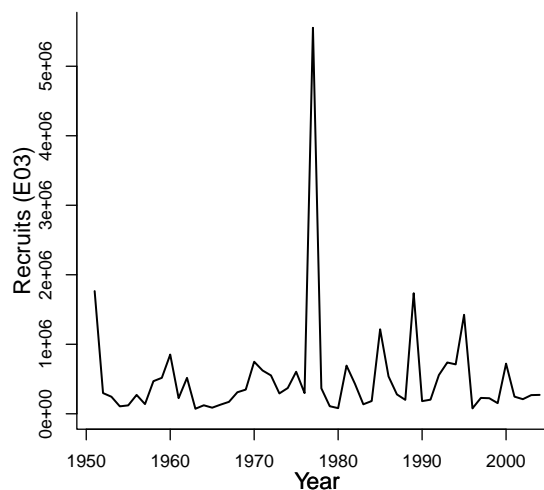
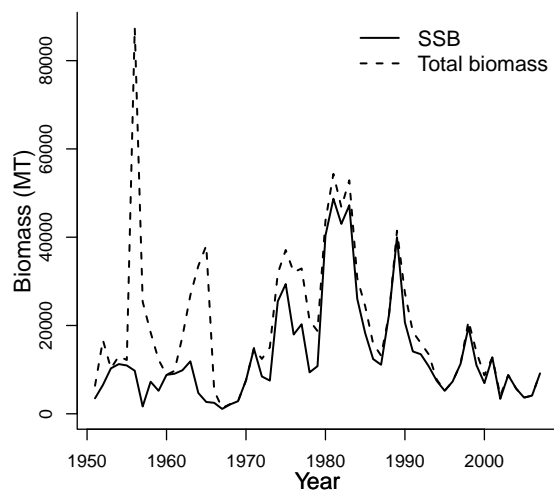
General assessment details.

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		
			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	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

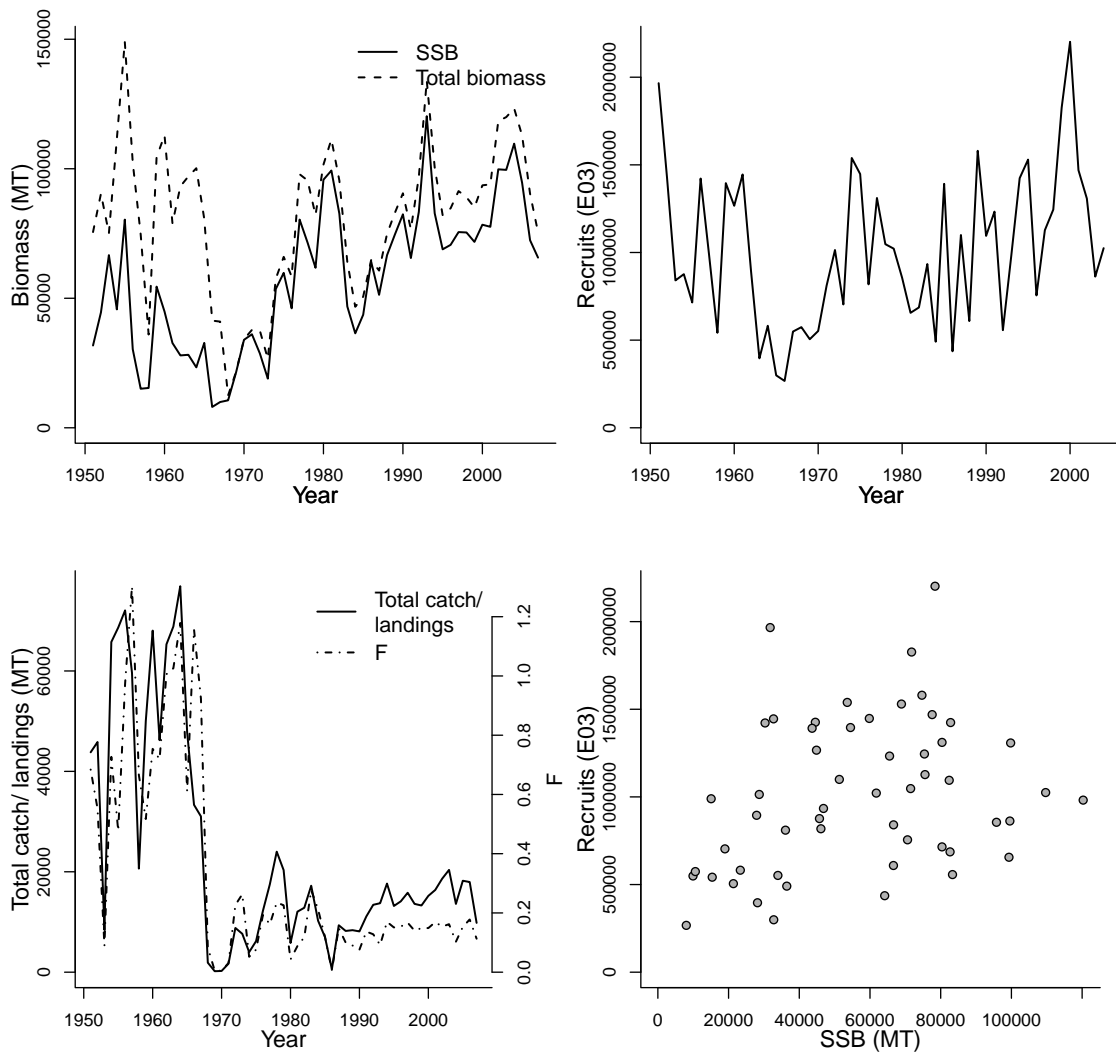
General assessment details.

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		
			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	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

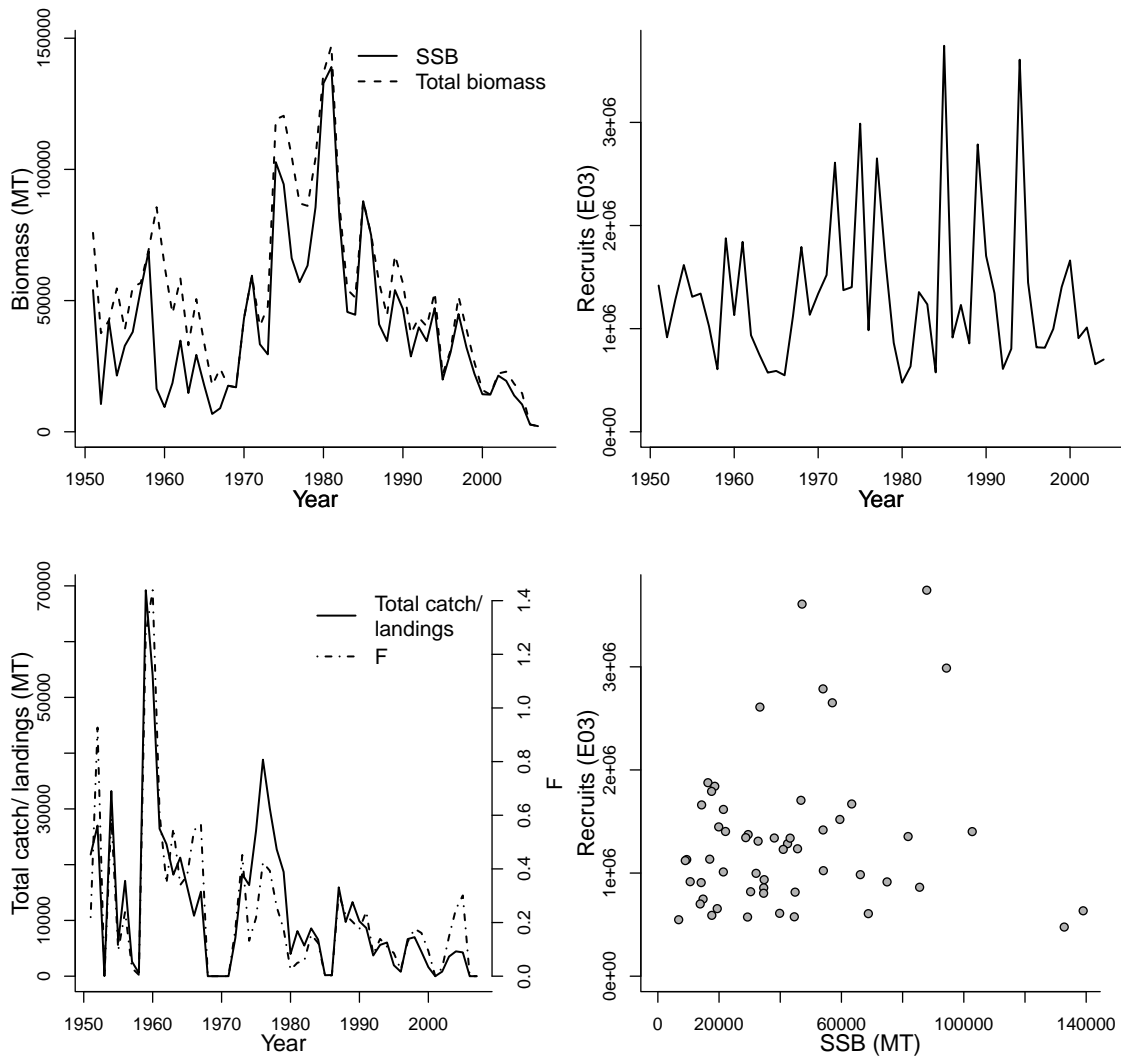
General assessment details.

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

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

Area ID: Canada-DFO-4T

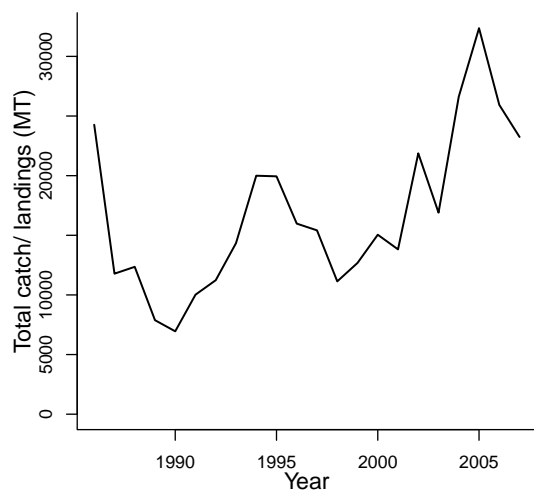
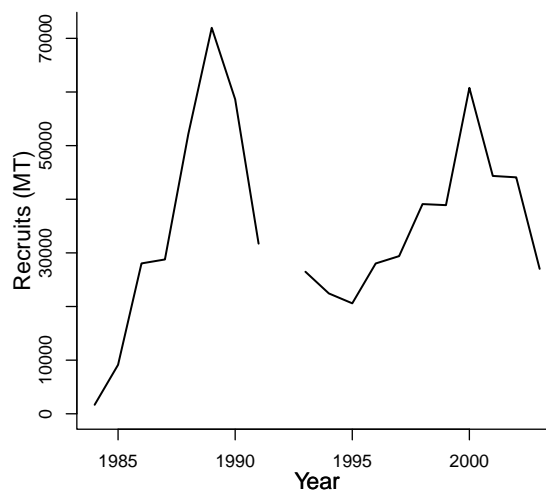
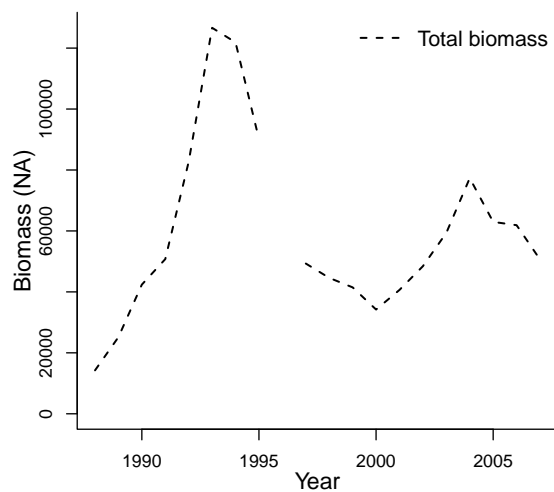
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Southern Gulf Region
Assessment authors	Hbert, M
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1984-2007
Document	./ (pdf not in database)
Recorder	ANDERSON
Date entered	2009-05-06
Date last loaded	2009-12-03
QA/QC complete	NO
Date approved	

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

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

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year		1984		1988	1986
Maximum year		2003		2007	2007
Time series minimum		1676		14244	6950
Time series maximum		71969		126660	32363
Units		MT		MT	MT



No SSB-recruit
data available

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

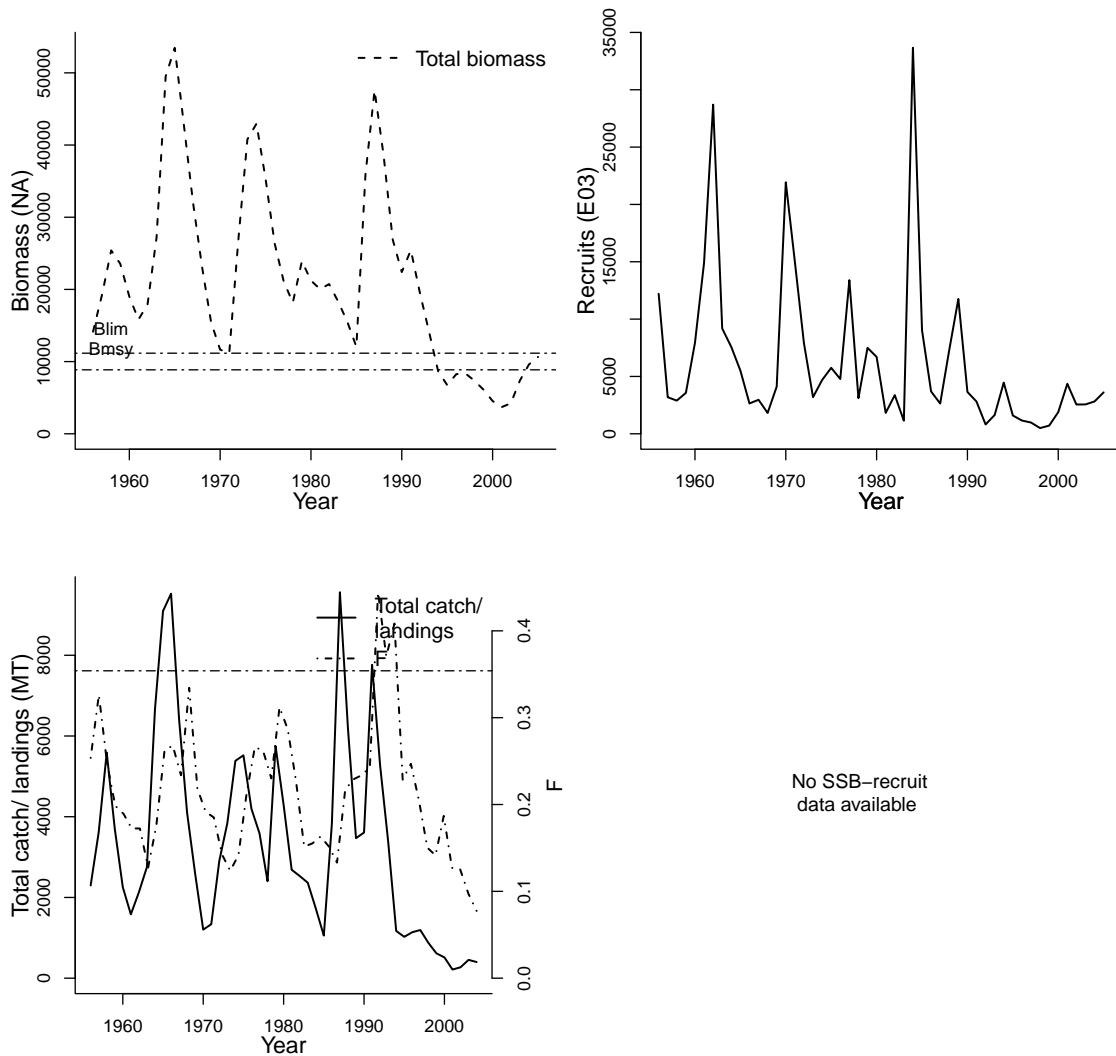
General assessment details.

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



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

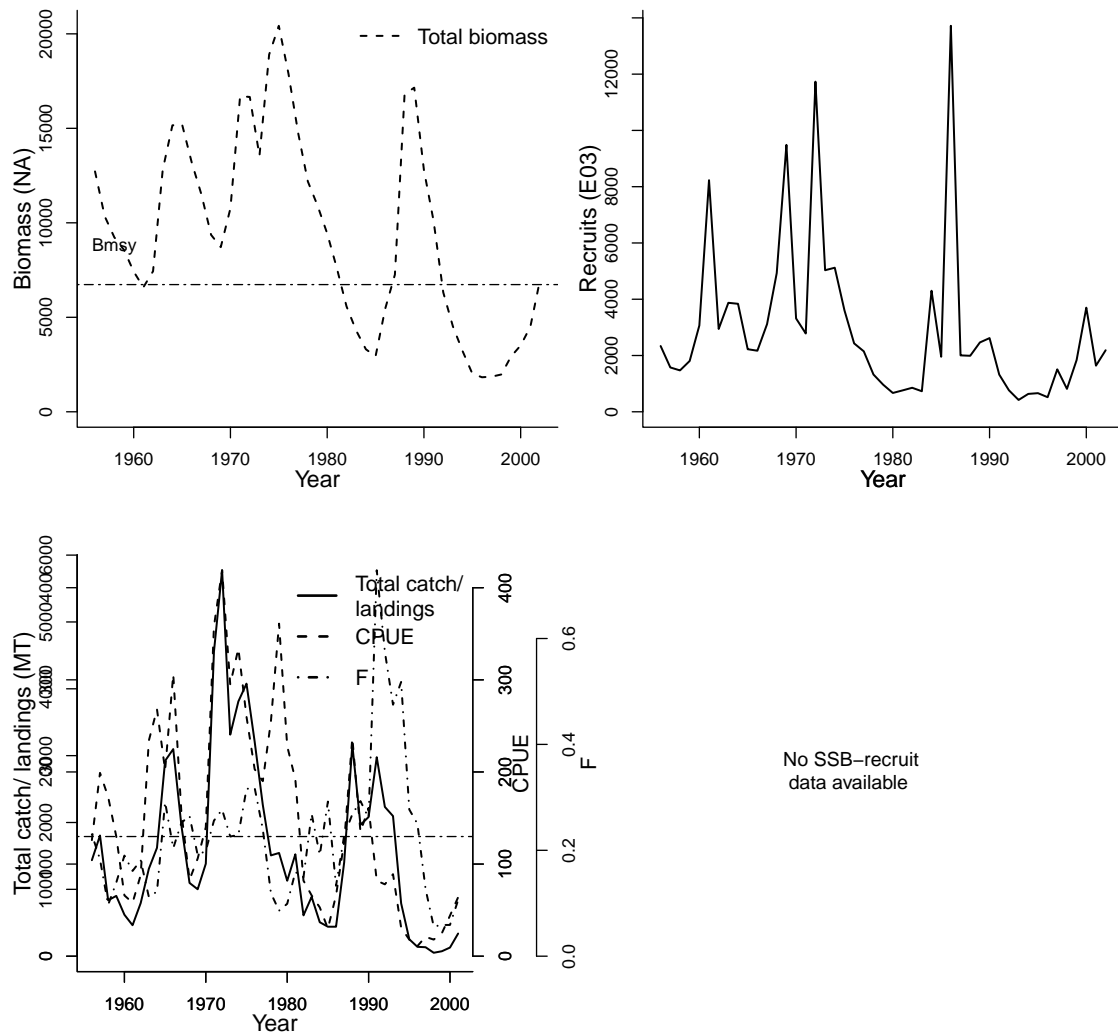
General assessment details.

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

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

Area ID: Canada-DFO-2J3KL

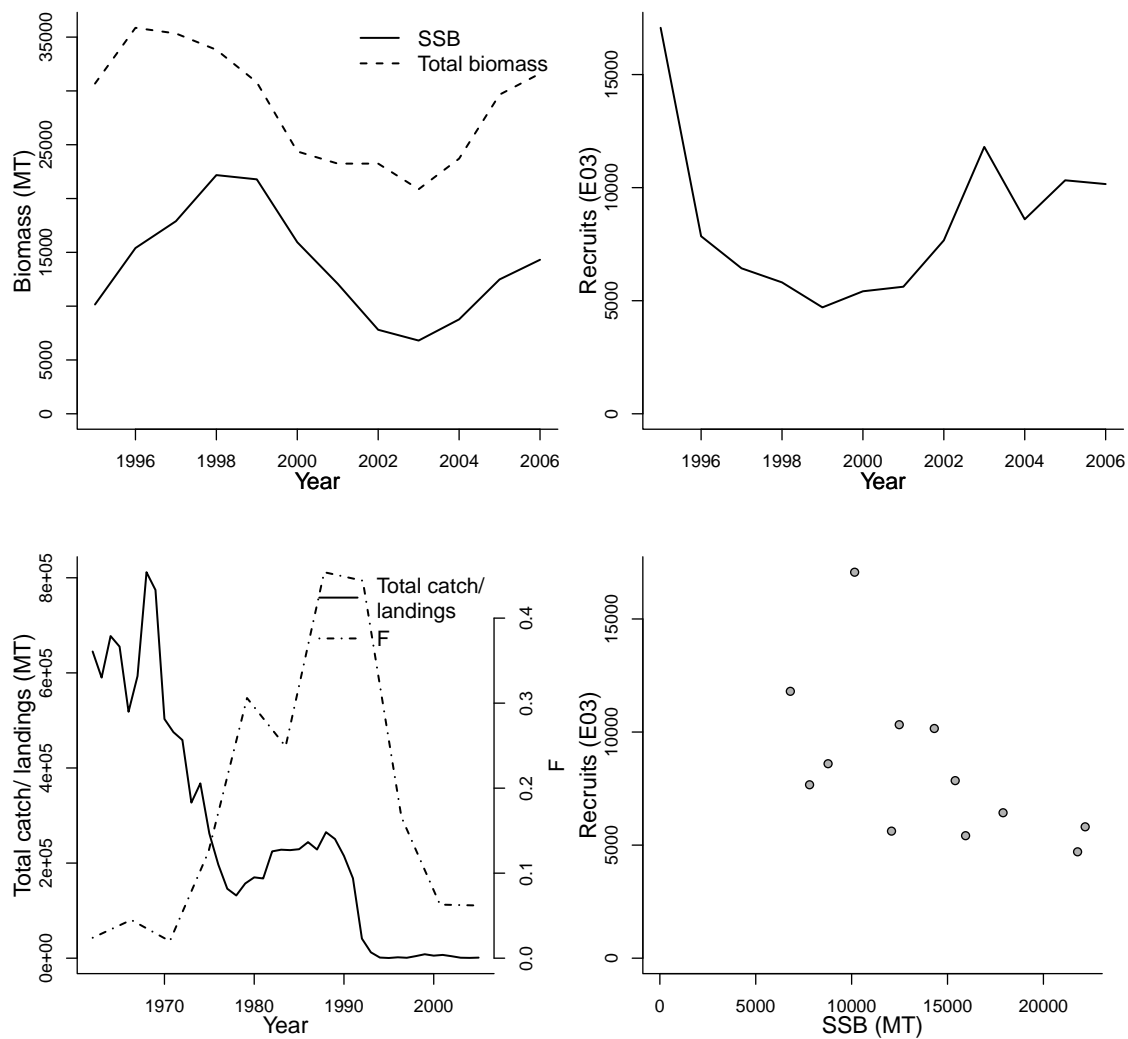
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Newfoundland Region
Assessment authors	Lilly, G.R.
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2006
Timeseries span	1959-2006
Document	DFO-COD2J3KLIS-2006.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-05-28
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf			na	na
Parameter	Value	Units	Reference points	
SSB-AGE-yr	2+	yr	Parameter	Value
REC-AGE-yr	3	yr		
F-AGE-yr-yr	2-10	yr-yr	MORATOR-yr-yr	1992-2005
A50-yr	6-7	yr		
M-1/T	0.4	1/T	Units	
TB-AGE-yr				
M				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1995	1995	1995	1995	1962
Maximum year	2006	2006	2005	2006	2005
Time series minimum	6804	4705	0.02	20866	411
Time series maximum	22178	17068	0.454	35864	811698
Units	MT	E03	1/T	MT	MT



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

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

Area ID: Canada-DFO-3Pn4RS

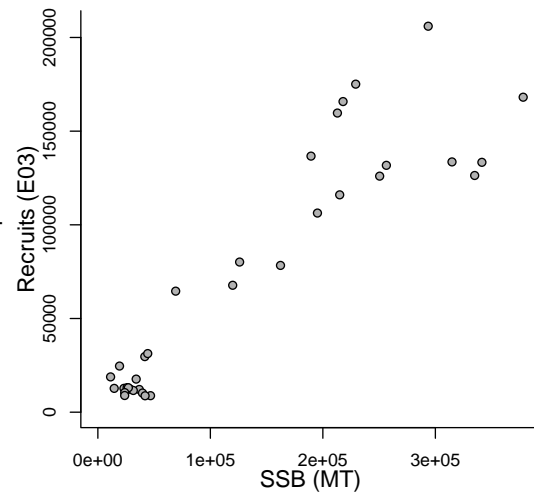
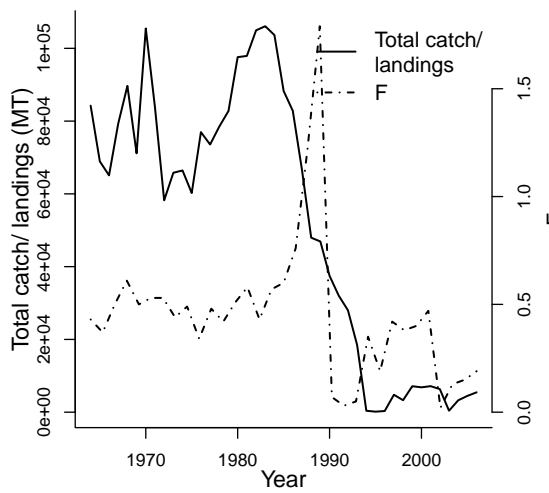
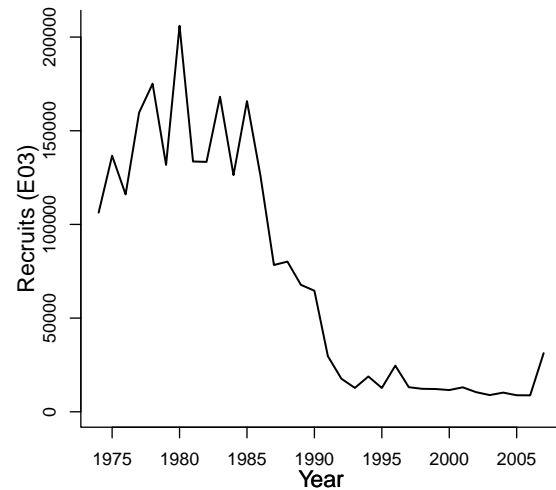
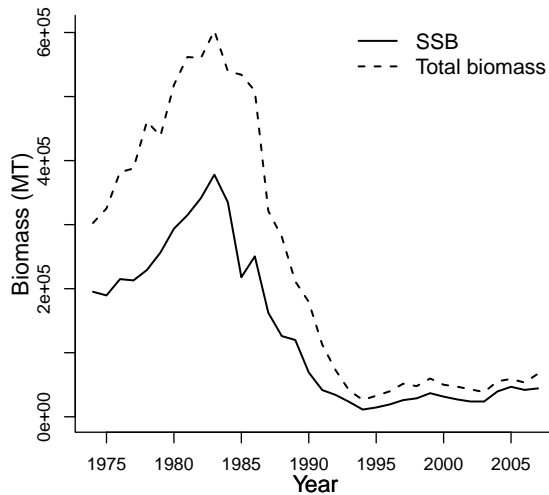
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Quebec Region
Assessment authors	Frchet, Alain
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2007
Timeseries span	1964-2007
Document	DFO-COD3Pn4Rs-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-08-20
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

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

primary LME	secondary LME		tertiary LME
9 - Newfoundland-Labrador Shelf	na		na
	Parameter	Value	Units
	SSB-AGE-yr	3+	yr
	REC-AGE-yr	3	yr
	F-AGE-yr-yr	7-10	yr-yr
	A50-yr	4-5	yr
	M-1/T	timeseries	1/T
	TB-AGE-yr		
	M		
	L50-cm		
	Reference points		
	Parameter	Value	Units
	MORATOR-yr-yr	1994-1996 AND 2003	yr-yr

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1974	1974	1974	1974	1964
Maximum year	2007	2007	2006	2007	2006
Time series minimum	11307	8769	0.02	26347	148
Time series maximum	378057	206009	1.79	602678	106080
Units	MT	E03	1/T	MT	MT



Assessment of St. Pierre Bank atlantic cod (*Gadus morhua*)

Assessment ID:DFO-NFLD-COD3Ps-1959-2004-PREFONTAINE
Issue URL: <http://www.marinemarinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/155>

Area ID: Canada-DFO-3Ps

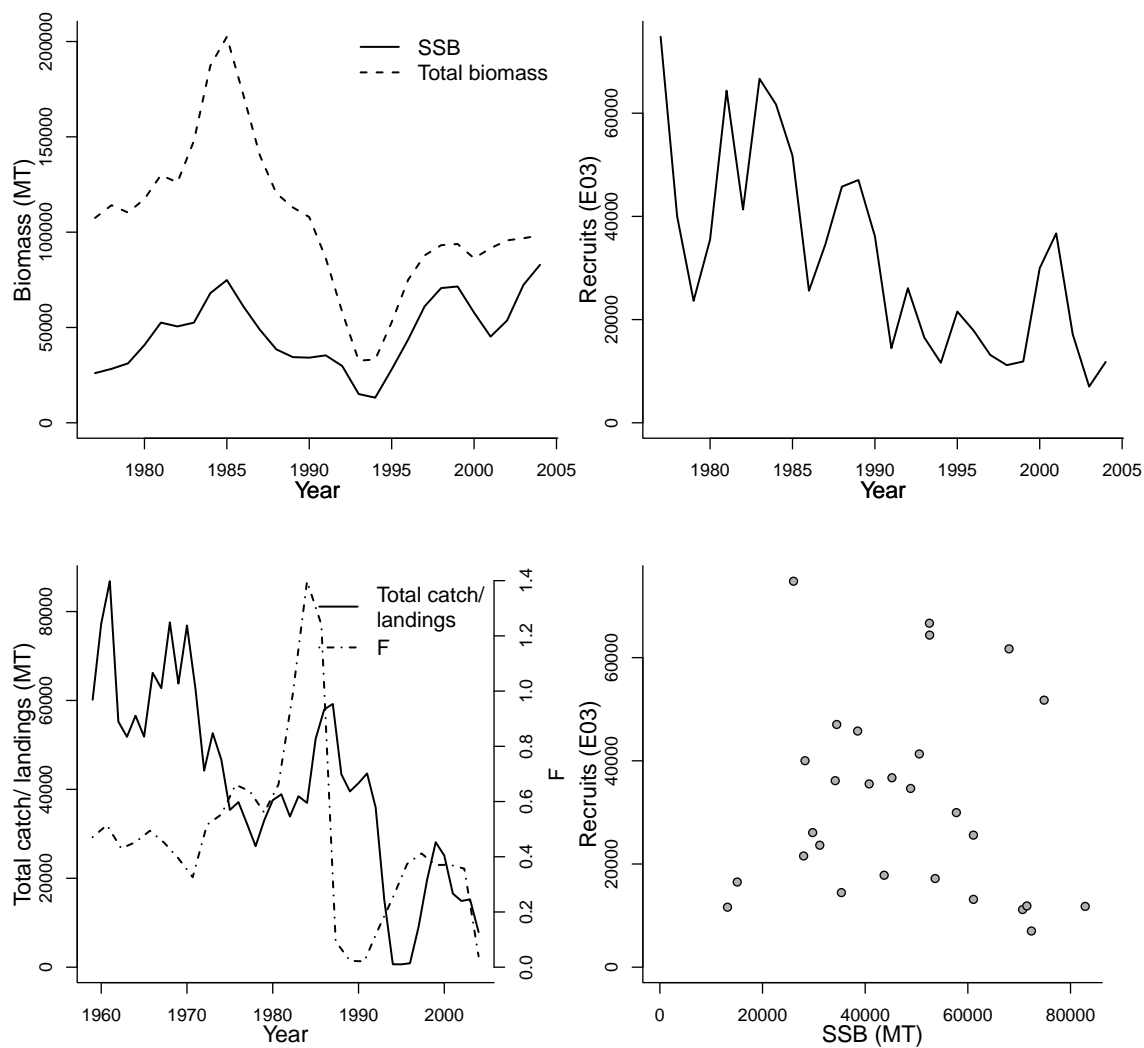
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Newfoundland Region
Assessment authors	Bratney, J.
Assessment method	The ADAPT approach with year effects in a catch multiplier
Publication year	2004
Timeseries span	1959-2004
Document	DFO-COD3Ps-2004.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-05-27
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

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

primary LME			secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf			na	na
Parameter	Value	Units	Reference points	
A50-yr	7-8	yr	Parameter	Value
M-1/T	0.2	1/T		Units
REC-AGE			MORATOR-yr-yr	1994-1996
SSB-AGE-yr			SSB recovery-1-MT	36000
TB-AGE-yr			SSB recovery-2-MT	13000
F-AGE-yr				
M				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1977	1977	1977	1959
Maximum year	2004	2004	2004	2004	2004
Time series minimum	13173	7014	0.021	32591	641
Time series maximum	82857	74809	1.398	202478	86824
Units	MT	E03	1/T	MT	MT



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

Assessment ID:DFO-SG-COD4TVn-1965-2007-PREFONTAINE

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

Area ID: Canada-DFO-4T

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Southern Gulf Region
Assessment authors	Swain, D.P.
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2007
Timeseries span	1965-2007
Document	NAFO-COD4TVn-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-05-28
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

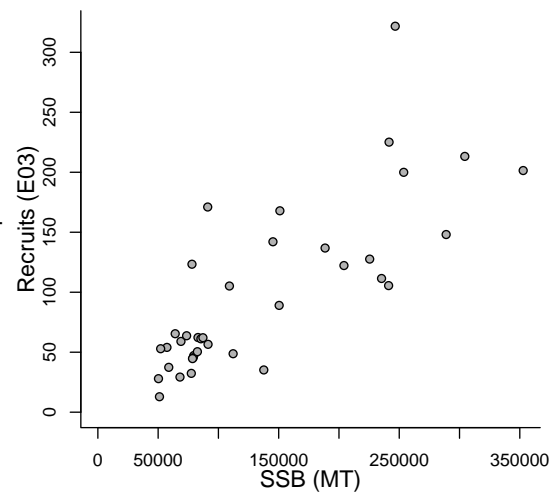
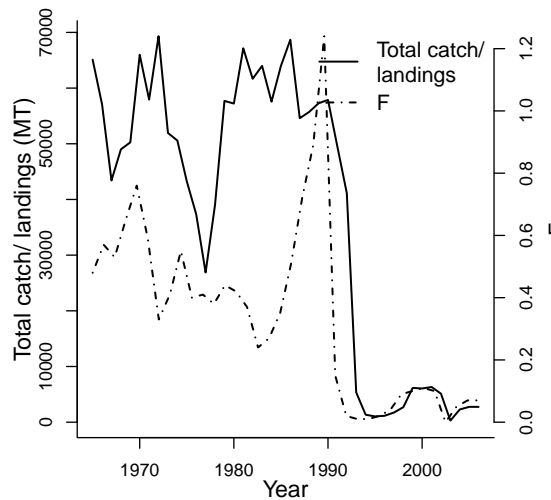
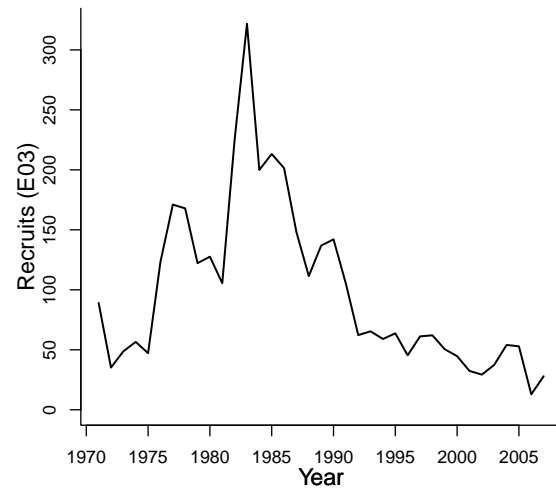
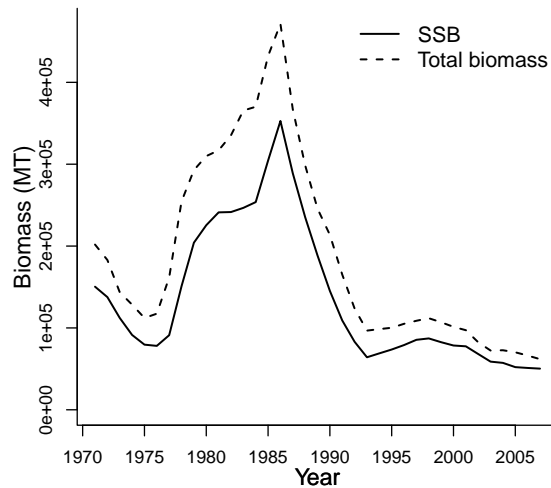
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

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

Reference points		
Parameter	Value	Units
Bcrp-MT	80000	MT

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1971	1971	1971	1971	1965
Maximum year	2007	2007	2006	2007	2006
Time series minimum	50276	12.896	0	61834	289
Time series maximum	352804	321.751	1.24	471519	69317
Units	MT	E03	1/T	MT	MT



Assessment of Eastern Scotian Shelf atlantic cod (*Gadus morhua*)

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

Area ID: Canada-DFO-4VsW

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Maritimes Region
Assessment authors	Fanning, L.P.
Assessment method	Unknown
Publication year	2003
Timeseries span	1958-2002
Document	NAFO-COD4VsW-2003.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-09
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

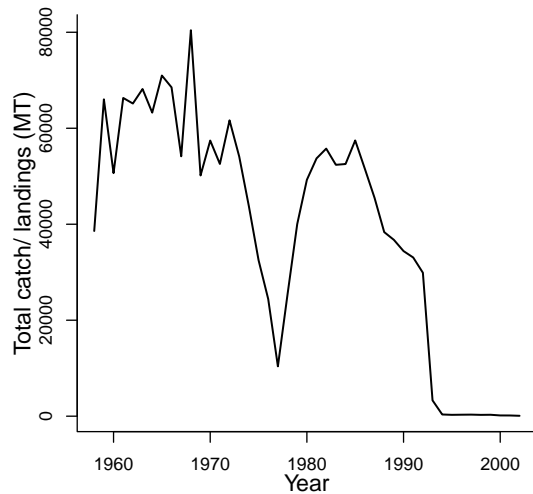
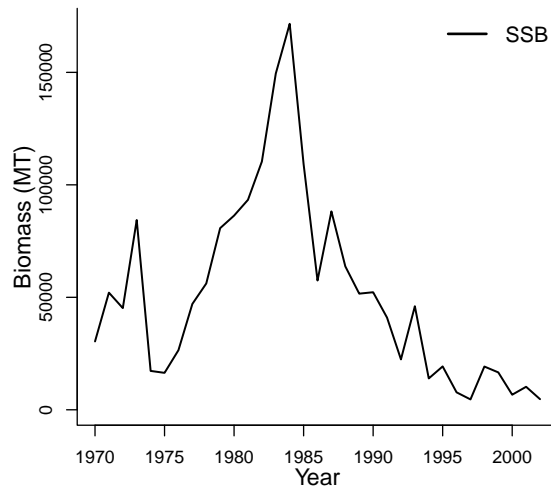
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

	primary LME	secondary LME	tertiary LME
	8 - Scotian Shelf	na	na

Parameter	Value	Units
A50-yr	3	yr
L50-cm	SEE FIGURES 15 AND 16 OF THE ASSESSMENT	cm
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		

Reference points		
Parameter	Value	Units
MORATOR-yr-yr	1993-2008	yr-yr
SSB recovery-MT	16420	MT
SSBnp50-MT	53990	MT
SSBrk50-MT	23940	MT
SSBbh50-MT	33670	MT
SSBsb50/90-MT	12590	MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970				1958
Maximum year	2002				2002
Time series minimum	4607				83
Time series maximum	171591.6				80428
Units	MT				MT



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

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

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

Area ID: Canada-DFO-5Zjm

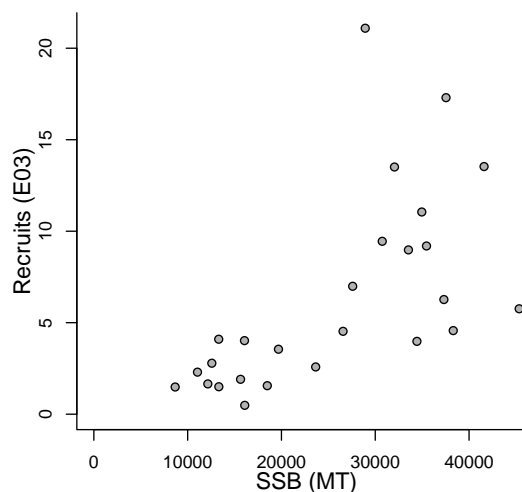
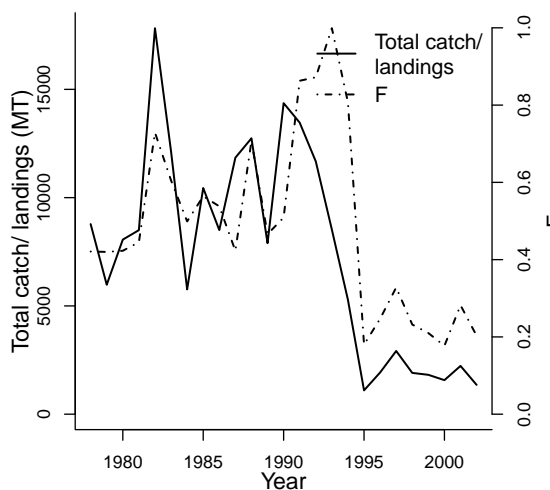
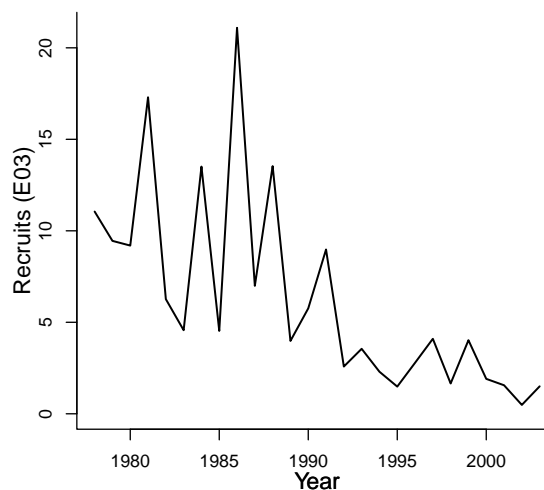
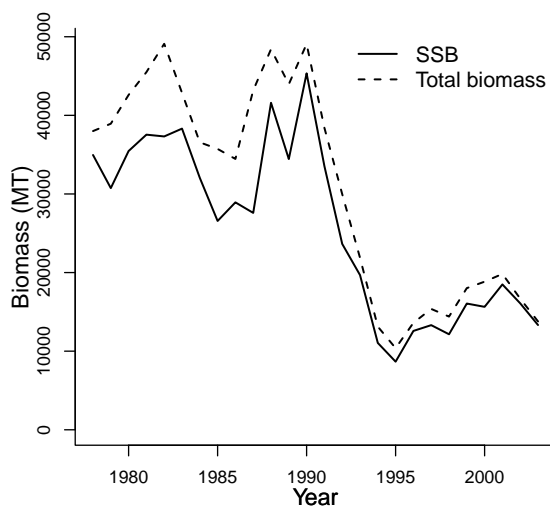
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans
Assessment authors	Hunt, J.J.
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2003
Timeseries span	1978-2003
Document	NAFO-COD5Zjm-2003.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-10
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

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

primary LME			secondary LME	tertiary LME	
7 - Northeast U.S. Continental Shelf			na	na	
Parameter	Value	Units			
SSB-AGE-yr	3+	yr			
REC-AGE-yr	1	yr			
F-AGE-yr-yr	4-9	yr-yr	Reference points		
TB-AGE-yr	1-10	yr	Parameter	Value	Units
M-1/T	0.2	1/T	F0.1-1/yr (F)	0.18	1/yr
M					
A50-yr					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1978	1978	1978	1978
Maximum year	2003	2003	2002	2003	2002
Time series minimum	8667	0.485	0.177	10384	1100
Time series maximum	45343	21.094	0.999	49102	17824
Units	MT	E03	1/T	MT	MT



Assessment of Western Scotian Shelf, Bay of Fundy and Gulf of Maine haddock (*Melanogrammus aeglefinus*)

Assessment ID:DFO-HAD4X5Y-1960-2003-PREFONTAINE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/166>

Area ID: Canada-DFO-4X5Y

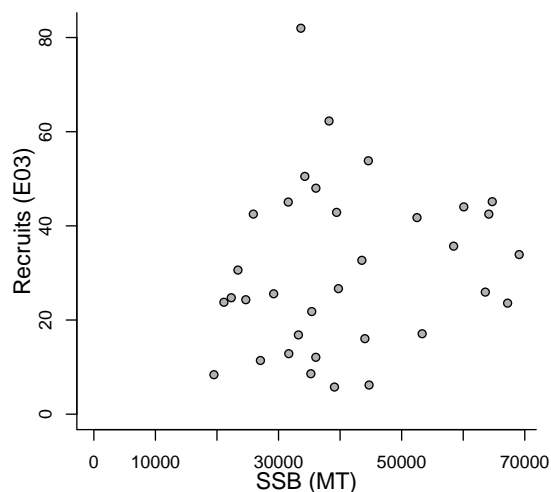
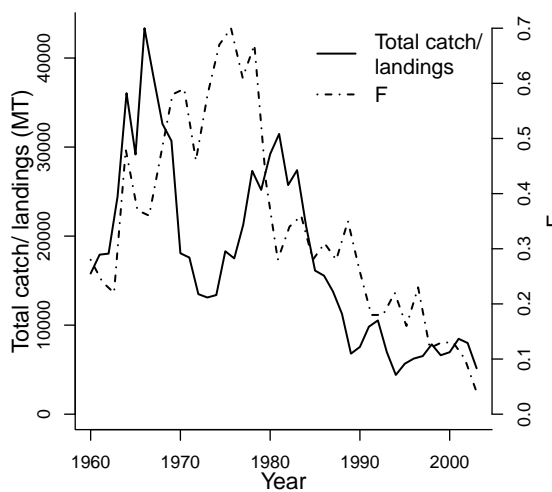
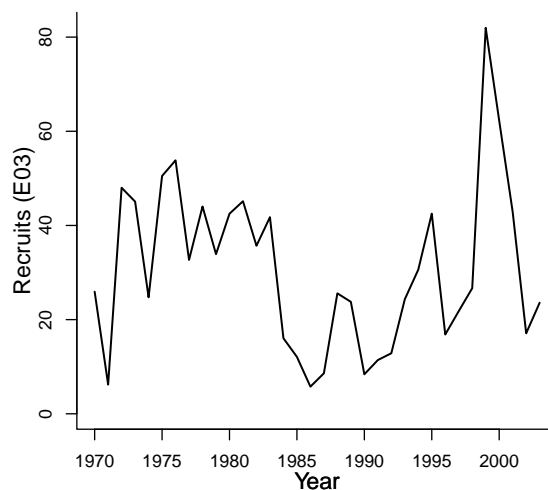
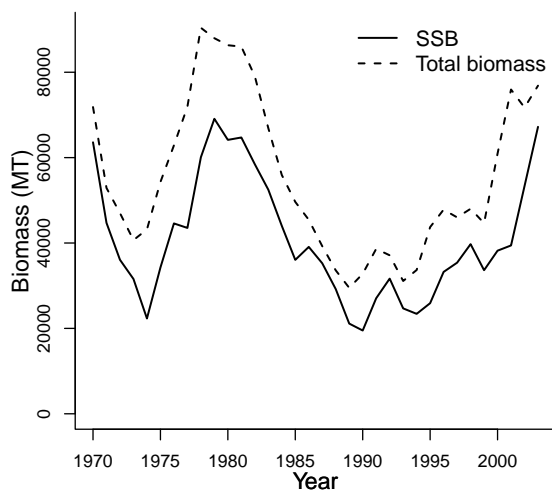
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans
Assessment authors	Hurley, P.C.F.
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2003
Timeseries span	1960-2003
Document	NAFO-HAD4X5Y-2003.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-03
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			8 - Scotian Shelf	na	
Parameter	Value	Units			
SSB-AGE-yr	4+	yr			
REC-AGE-yr	1	yr			
F-AGE-yr-yr	5-7	yr-yr	Reference points		
TB-AGE-yr	1-10	yr	Parameter	Value	Units
M-1/T	0.2	1/T	F0.1-1/yr (F)	0.25	1/yr
M					
A50-yr					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1970	1970	1970	1960
Maximum year	2003	2003	2003	2003	2003
Time series minimum	19506	5.765	0.04	29495	4406
Time series maximum	69091	81.978	0.7	90408	43349
Units	MT	E03	1/T	MT	MT



Assessment of Georges Bank haddock (*Melanogrammus aeglefinus*)

Assessment ID:DFO-HAD5Zejm-1969-2003-PREFONTAINE

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

Area ID: Canada-DFO-5Zejm

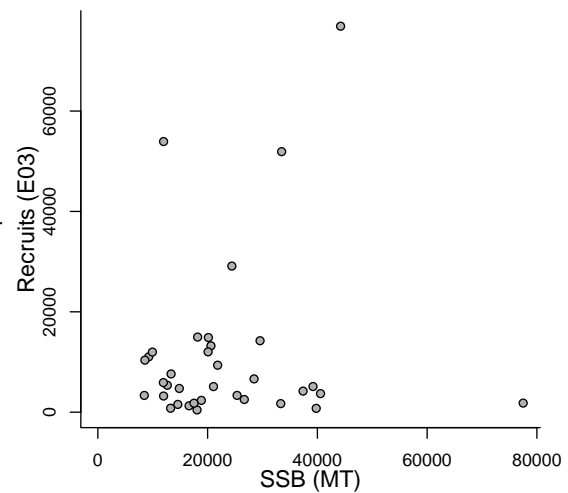
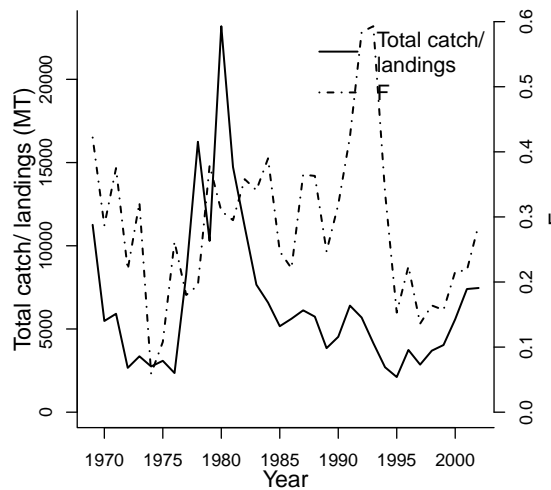
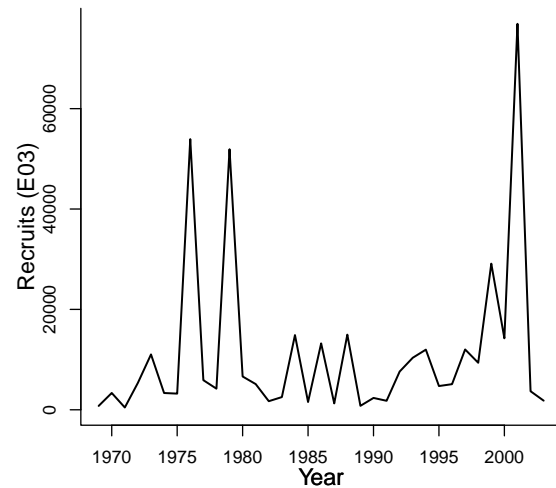
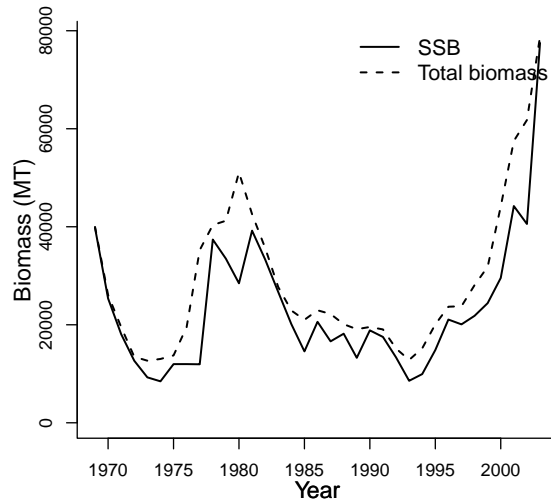
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans
Assessment authors	Van Eeckhaute, L.
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2003
Timeseries span	1969-2003
Document	NAFO-HAD5Zejm-2003.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-06-04
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf			na	na
Parameter	Value	Units	Reference points	
REC-AGE-yr	1+	yr	Parameter	Value
F-AGE-yr-yr	4+	yr-yr		Units
TB-AGE-yr	1-9+	yr	Fref-1/T (F)	0.26
M-1/T	0.2	1/T	Brebuild-MT (TB)	65000
SSB-AGE-yr				MT
M				
A50-yr				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1969	1969	1969	1969	1969
Maximum year	2003	2003	2002	2003	2002
Time series minimum	8458	456	0.059	12672	2112
Time series maximum	77501	76905	0.593	78763	23193
Units	MT	E03	1/T	MT	MT



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

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

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

Area ID: Canada-DFO-4VWX5Zc

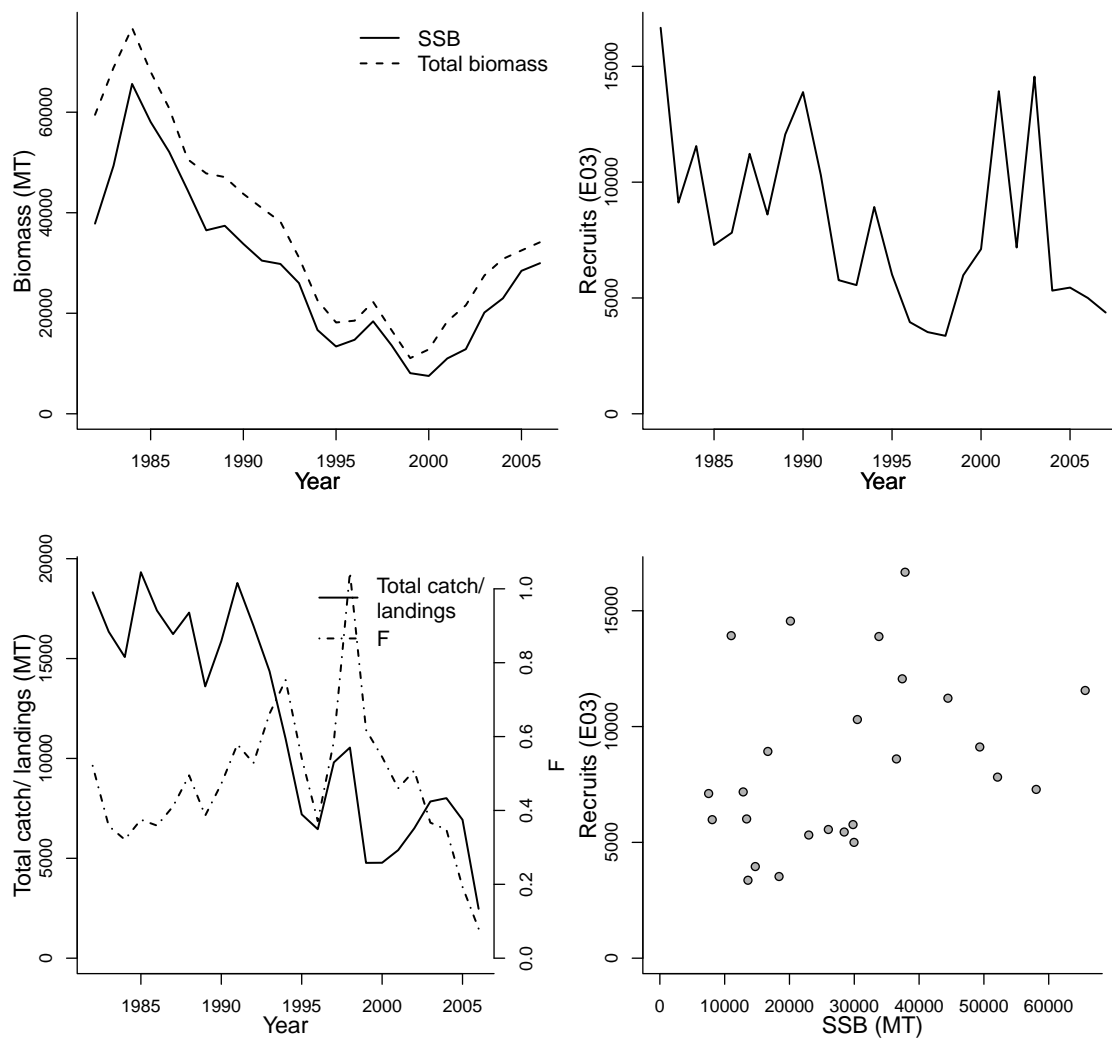
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans
Assessment authors	Stone, Heath
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2006
Timeseries span	1974-2007
Document	NAFO-POLL4VWX5Zc-2006.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-05-29
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME
7 - Northeast U.S. Continental Shelf			8 - Scotian Shelf	na
Parameter	Value	Units	Reference points	
SSB-AGE-yr	4+	yr	Parameter	Value
REC-AGE-yr	2+	yr		Units
F-AGE-yr-yr	4-9	yr-yr	Fref-1/T (F)	0.2
M-1/T	0.2	1/T		1/T
TB-AGE-yr				
M				
A50-yr				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1982	1982	1982	1982	1982
Maximum year	2006	2007	2006	2006	2006
Time series minimum	7524	3365	0.08	11074	2474
Time series maximum	65627	16664	1.045	76792	19323
Units	MT	E03	1/T	MT	MT



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

Assessment ID:DFO-MAR-WHAKE4VWX5-1964-2005-PREFONTAINE

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/6>

Area ID: Canada-DFO-4VWX5

General assessment details.

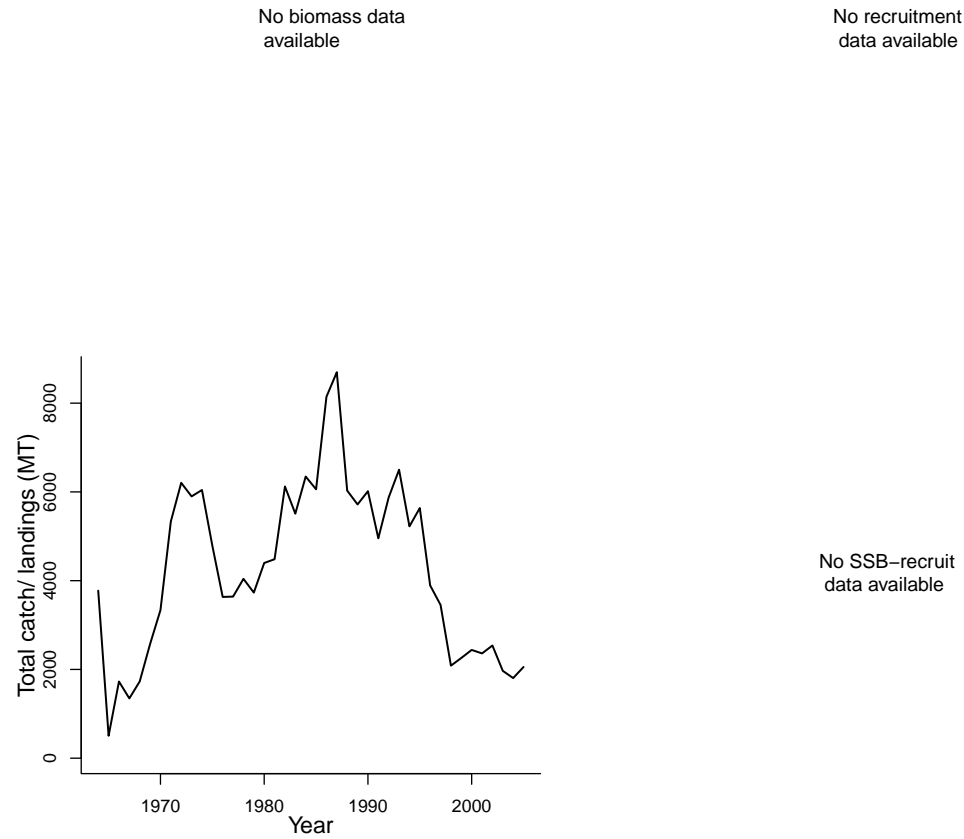
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Maritimes Region
Assessment authors	Bundy, A.
Assessment method	Unknown
Publication year	2005
Timeseries span	1964-2005
Document	NAFO-WHAKE4VWX5-2005.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-06-18
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

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

primary LME	secondary LME	tertiary LME
8 - Scotian Shelf	7 - Northeast U.S. Continental Shelf	na
Parameter	Value	Units
F-AGE-yr-yr	SEE NOTES	yr-yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

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



Assessment of Labrador Shelf-Grand Banks-S. Pierre Bank monkfish (*Lophius americanus*)

Assessment

ID:DFO-NFLD-MONK2J3KLNOPs-1977-2000-PREFONTAINE

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

Area ID: Canada-DFO-2J3KLNOPs

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Newfoundland Region
Assessment authors	Kulka, D.W.
Assessment method	Unknown
Publication year	2001
Timeseries span	1977-2000
Document	NAFO-MONK2J3KLNOPs-2001.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-06-26
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

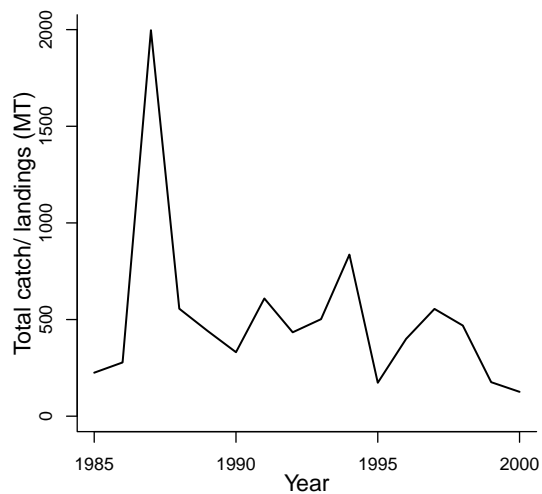
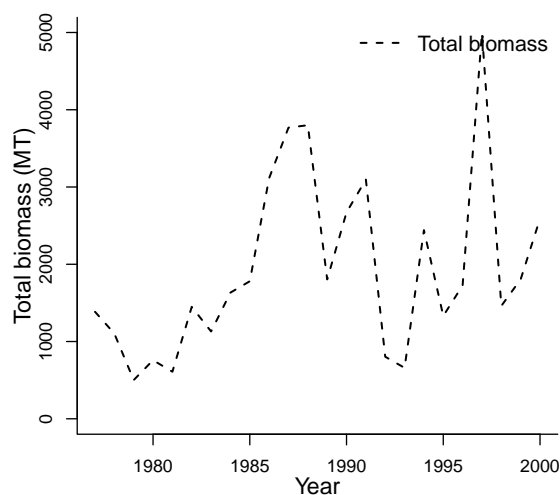
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

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

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				1977	1985
Maximum year				2000	2000
Time series minimum				501	126
Time series maximum				4996	1997
Units				MT	MT



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

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

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

Area ID: multinational-NAFO-23K

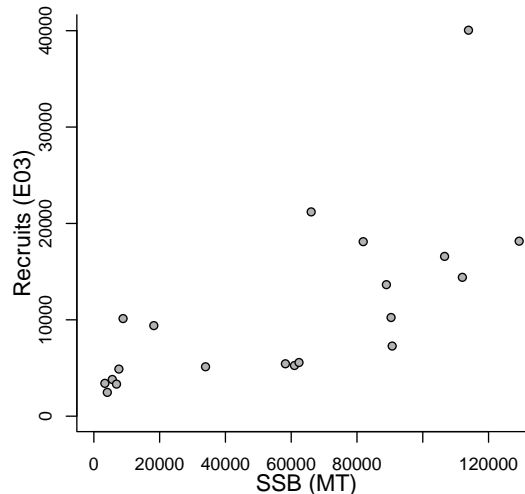
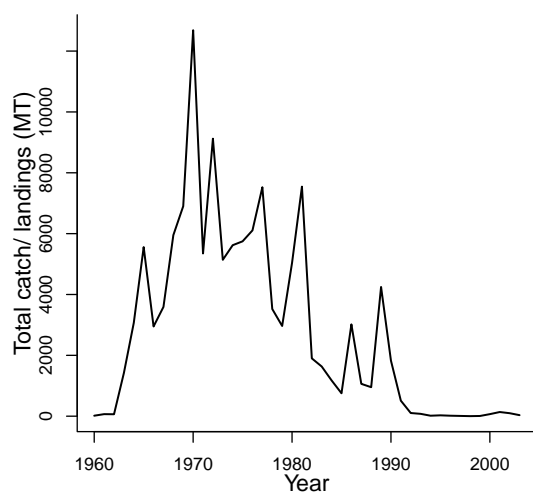
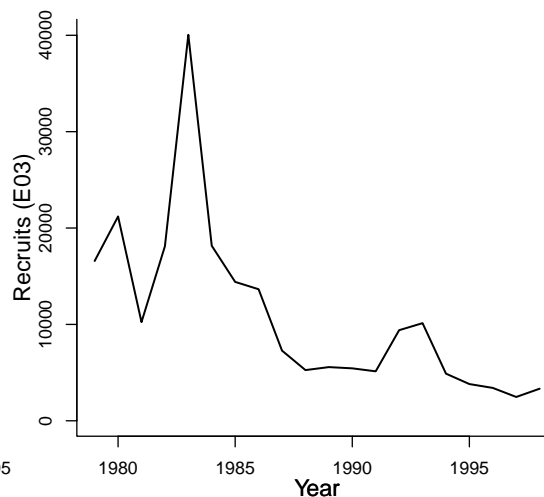
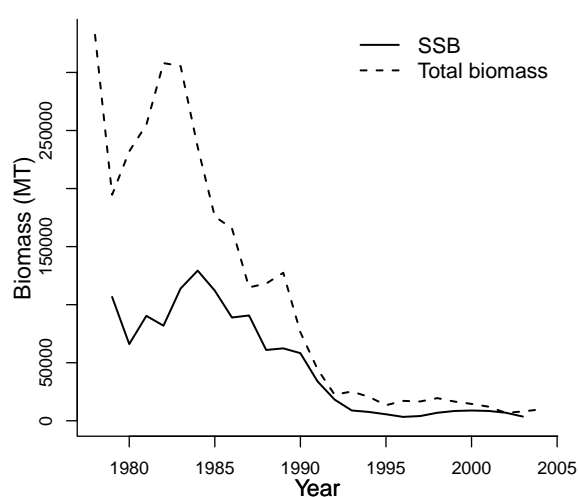
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Newfoundland Region
Assessment authors	Dwyer, K.S.
Assessment method	Temporal indices derived from scientific survey data
Publication year	2003
Timeseries span	1960-2004
Document	NAFO-AMPL23K-2003.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-06-03
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

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

primary LME		secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf		na	na
Parameter	Value	Units	
REC-AGE-yr	3+	yr	
TB-AGE-yr	0-19	yr	
A50-yr	FOUND AS A TIME SERIES IN FIGURE 10	yr	
L50-cm	FOUND AS A TIME SERIES IN FIGURE 11	cm	
SSB-AGE-yr			
F-AGE-yr			
M			
Reference points			
Parameter	Value	Units	
MORATOR-yr-yr	1994-2003	yr-yr	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1979	1979		1978	1960
Maximum year	2003	1998		2004	2003
Time series minimum	3350	2470		6820	2
Time series maximum	129310	40050		332410	12686
Units	MT	E03		MT	MT



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

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

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

Area ID: Canada-DFO-3Ps

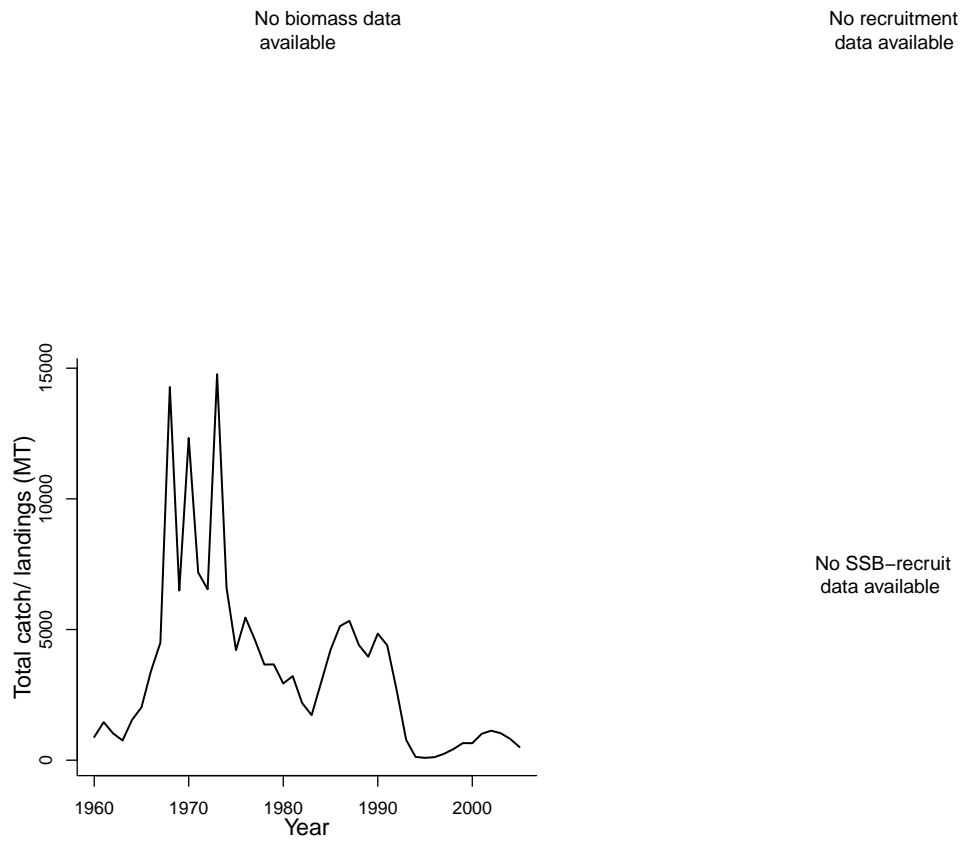
General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Newfoundland Region
Assessment authors	Morgan, M.J.
Assessment method	Unknown
Publication year	2005
Timeseries span	1960-2005
Document	NAFO-AMPL3Ps-2005.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-04
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME		tertiary LME
9 - Newfoundland-Labrador Shelf			8 - Scotian Shelf		na
Parameter	Value	Units	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			Blim-MT (TB)	7.7-16.2	MT
TB-AGE-yr			MORATOR-yr-yr	1993-present	yr-yr
F-AGE-yr			SSB50-MT	13.6	MT
M					
A50-yr					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year					1960
Maximum year					2005
Time series minimum					90
Time series maximum					14769
Units					MT



Assessment of 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

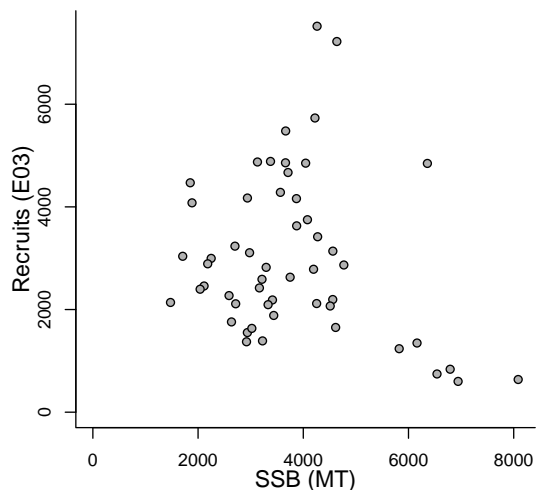
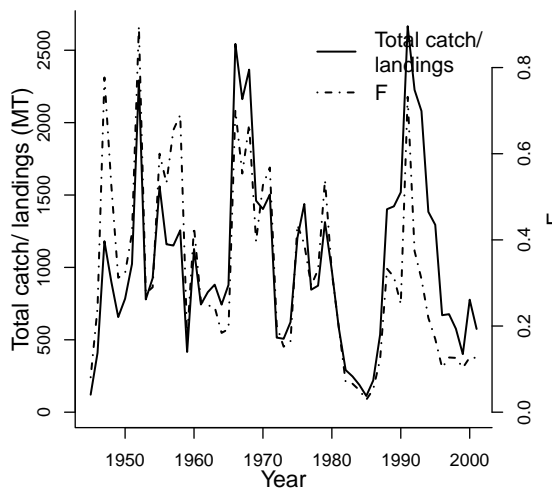
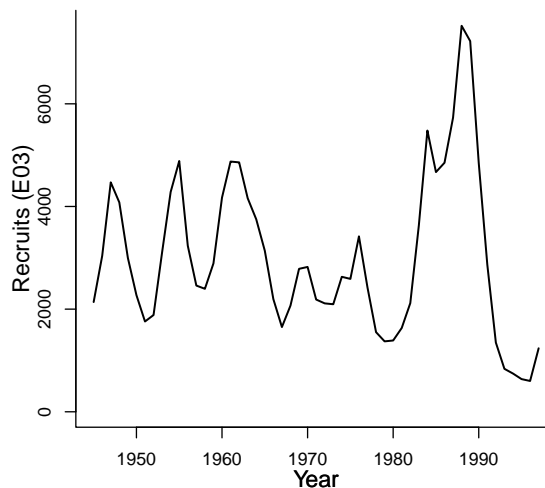
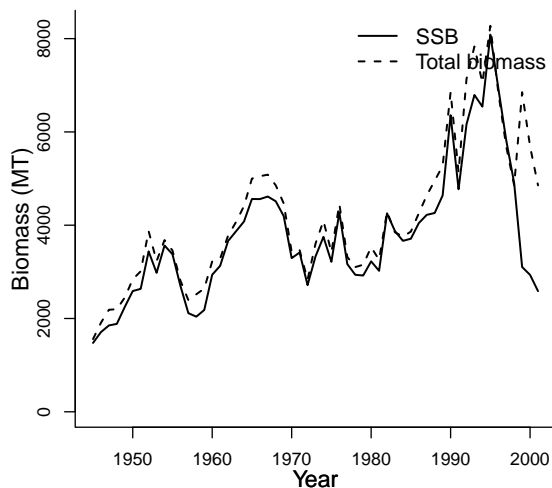
General assessment details.

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		
2 - Gulf of Alaska	na	na	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 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

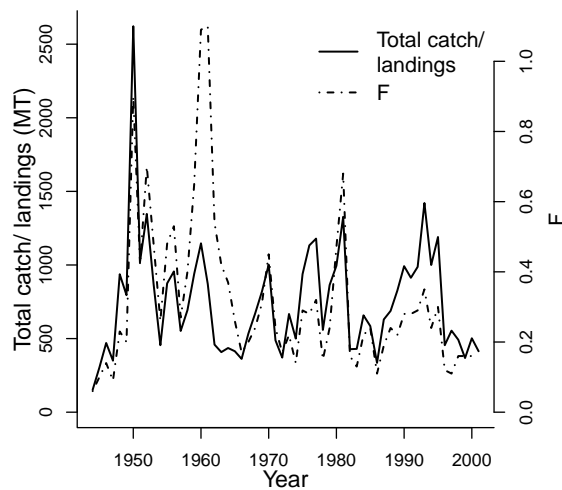
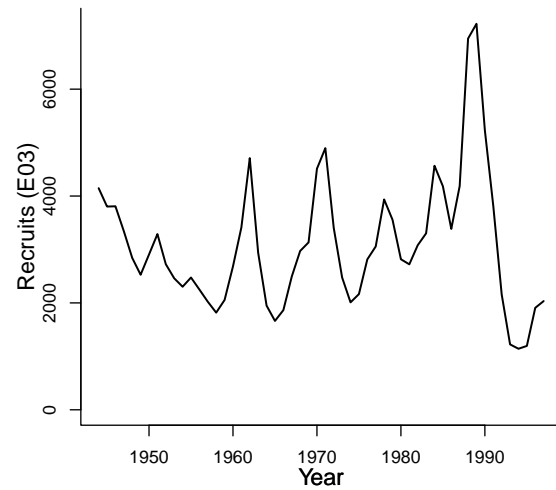
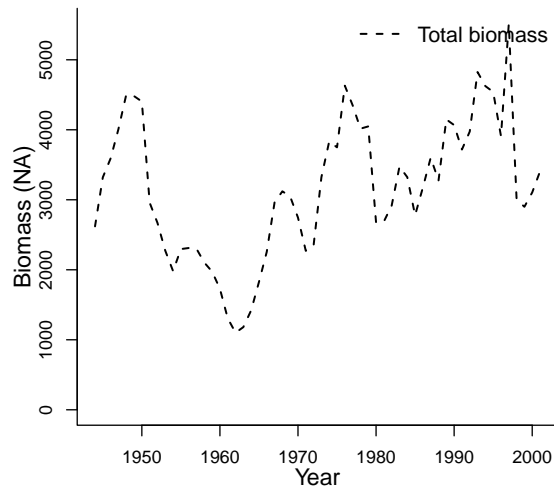
General assessment details.

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 Gulf of St. Lawrence greenland halibut (*Reinhardtius hippoglossoides*)

Assessment ID:DFO-QUE-GHAL4RST-1970-2002-PREFONTAINE
Issue URL: <http://www.marinemarinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/165>

Area ID: Canada-DFO-4RST

General assessment details.

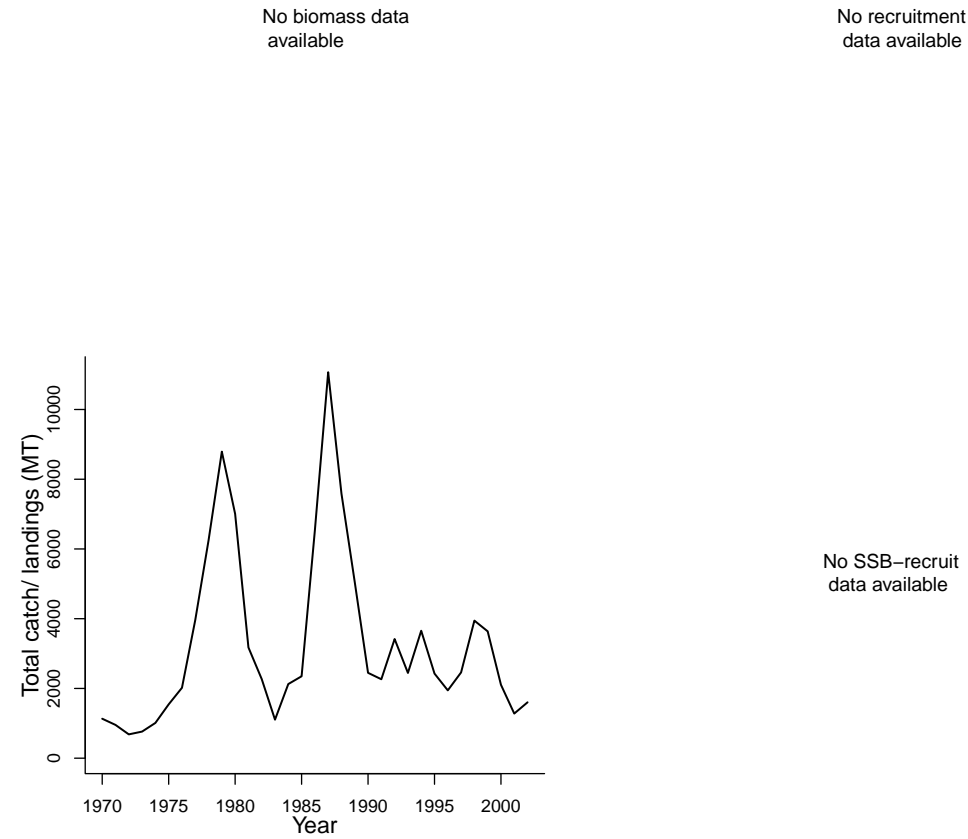
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Quebec Region
Assessment authors	Bernier, B.
Assessment method	Unknown
Publication year	2003
Timeseries span	1970-2002
Document	NAFO-GHAL4RST-2003.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-03
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

primary LME	secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf	8 - Scotian Shelf	na
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					1970
Maximum year					2002
Time series minimum					683
Time series maximum					11069
Units					MT



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

Assessment

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

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

Area ID: Canada-DFO-23K

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Newfoundland Region
Assessment authors	Power, D.
Assessment method	Unknown
Publication year	2001
Timeseries span	1959-2001
Document	NAFO-RED23K-2001.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-08-19
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

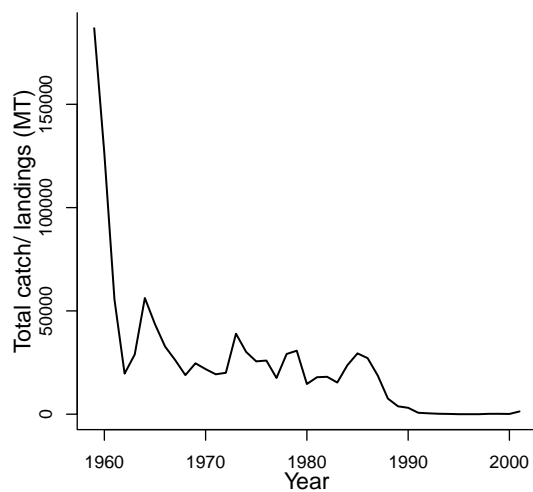
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME	tertiary LME
9 - Newfoundland-Labrador Shelf			na	na
Parameter	Value	Units		
REC-AGE			Reference points	
SSB-AGE-yr			Parameter	Value
TB-AGE-yr				Units
F-AGE-yr			F0.1-1/yr (F)	0.12
M			MORATOR-yr-yr	1997-2001
A50-yr				1/yr
L50-cm				yr-yr

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

No biomass data
available

No recruitment
data available



No SSB–recruit
data available

Assessment of Gulf of St. Lawrence and Cabot Strait redfish species (*Redfish species*)

Assessment

ID:DFO-QUE-REDFISHSPP3Pn4RSTVn-1953-2000-PREFONTAINE
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/176>

Area ID: Canada-DFO-3Pn4RSTVn

General assessment details.

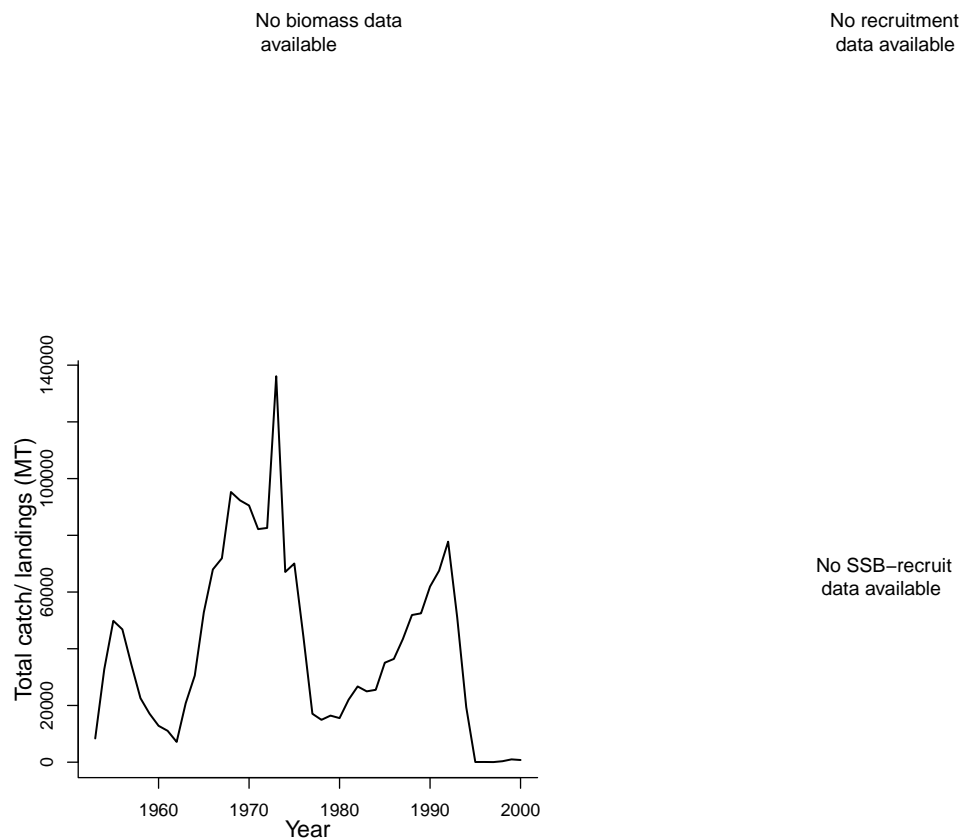
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans - Quebec Region
Assessment authors	Morin, B.
Assessment method	Temporal indices derived from scientific survey data
Publication year	2001
Timeseries span	1953-2000
Document	NAFO-RED3Pn4RSTVn.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-25
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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

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

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

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



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