Dear Renee,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 26 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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DFO-HAD5Zejm-1968-2003-PREFONTAINE
DFO-HERR4VWX-1964-2006-PREFONTAINE
DFO-MAR-BSKATCANATL-1970-1987-PREFONTAINE 9
DFO-MAR-COD4VsW-1958-2002-PREFONTAINE
DFO-MAR-HAD4X5Y-1960-2003-PREFONTAINE
DFO-MAR-WHAKE4VWX5-1964-2005-PREFONTAINE
DFO-NFLD-AMPL23K-1960-2004-PREFONTAINE
DFO-NFLD-AMPL3Ps-1960-2005-PREFONTAINE
DFO-NFLD-COD2J3KLIS-1959-2006-PREFONTAINE
DFO-NFLD-COD3Ps-1959-2004-PREFONTAINE
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DFO-QUE-GHAL4RST-1970-2002-PREFONTAINE
DFO-QUE-HERR4RFA-1971-2003-PREFONTAINE
DFO-QUE-HERR4RSP-1963-2004-PREFONTAINE
DFO-QUE-REDFISHSPP3Pn4RSTVn-1953-2000-PREFONTAINE 39
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DFO-SG-HERR4TSP-1974-2007-PREFONTAINE 45
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NAFO-SC-REDFISHSPP1-1965-2004-PREFONTAINE
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LME map

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

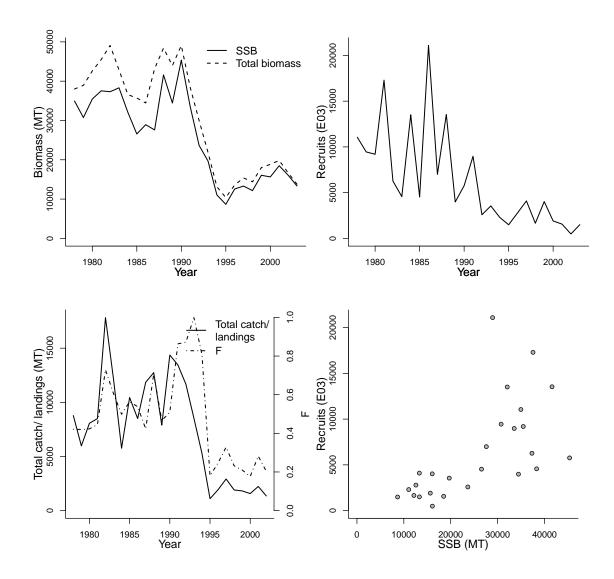
Area ID: Canada-DFO-5Zjm

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	2011-07-25				
QA/QC complete	YES				
Date approved	2009-06-08				

primary LME			secondary I	LME to	ertiary LME	
7 - Northeast U.S. Continental Shelf na na						
Parameter	Value	Units				
SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr	3+ 1 4-9	yr yr yr-yr	Referen	ce noint		
TB-AGE-yr	1-10	yr	Parameter	Value		
M-1/T SSB-SEX-sex	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 485 0.177 10384 1100								
Time series maximum 45343 21094 0.999 49102 17824								
Units	MT	E03	1/T	MT	MT			



Assessment of Georges Bank haddock

(Melanogrammus aeglefinus)
Assessment ID:DFO-HAD5Zejm-1968-2003-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/105

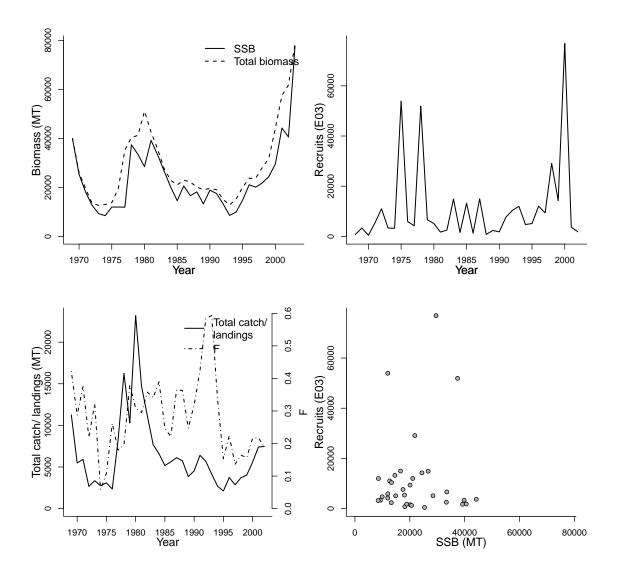
Area ID: Canada-DFO-5Zejm

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans
Assessment authors	Van Eeckhaute, L.
Assessment method	A general approach to fitting VPA models.
	ADAPT is based on minimising the sum-
	of-squares over any number of indices of
	abundance to find best-fit parameters.
Publication year	2003
Timeseries span	1968-2003
Document	NAFO-HAD5Zejm-2003.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-04
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2010-07-14

primary LME			secondary LM	IE terti	ary LME	
7 - Northeast U.S. Continental Shelf na na						
Parameter	Value	Units				
SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr TB-AGE-yr M-1/T SSB-SEX-sex M A50-yr L50-cm	3+ 1 4+ 1-9+ 0.2	yr yr yr-yr yr 1/T	Reference Parameter Fref-1/T (F) Brebuild-MT (TB)	points Value 0.26 65000	Units 1/T MT	

Time series minima and maxima									
SSB R F TB Catch									
Minimum year	1969	1968	1969	1969	1969				
Maximum year	•								
Time series minimum									
Time series maximum 77501 76905 0.593 78763 23193									
Units	MT	E03	1/T	MT	MT				



Assessment of Scotian Shelf and Bay of Fundy herring (*Clupea harengus*) Assessment ID:DFO-HERR4VWX-1964-2006-PREFONTAINE

Assessment ID:DFO-HERR4VWX-1964-2006-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/171

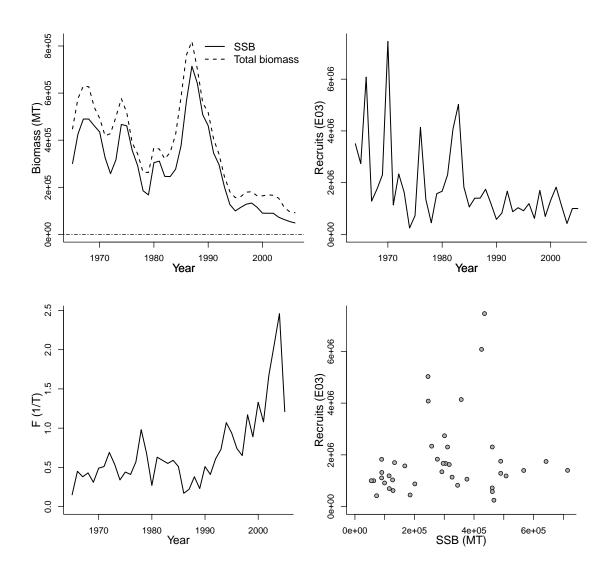
Area ID: Canada-DFO-4VWX

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	1964-2006
Document	NAFO-HERR4VWX-2006.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-02
Date last loaded	2011-07-27
QA/QC complete	YES
Date approved	2011-06-10

			Parameter	Value	Units
			SSB-SEX-sex	NA	sex
			REC-AGE-yr	1	yr
primary LME	secondary LME	tertiary LME	F-AGE-yr-yr	5-8	yr-yr
primary EME	Sccolidary Livie		TB-AGE-yr	NA	yr
8 - Scotian Shelf	na	na	A50-yr	3	yr
			M-1/T	0.2	1/T
			SSB-AGE-yr		
			M		
			L50-cm		
	Ref	ference points			
Parameter	Value			Units	S
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	d with ages 5-9 t	he following year	r dimle	ess

Time series minima and maxima									
SSB R F TB Catch									
Minimum year	1965	1964	1965	1965					
Maximum year									
Time series minimum	48646	247148	0.15	91734					
Time series maximum	714331	7460417	2.46	819446					
Units	MT	E03	1/T	MT					



Assessment of Canadian Atlantic Ocean barndoor skate (Dipturus laevis)

barndoor skate (*Dipturus laevis*)
Assessment ID:DFO-MAR-BSKATCANATL-1970-1987-PREFONTAINE
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/151

Area ID: Canada-DFO-ATL

General assessment details.

Detail	Value				
Management body	DFO				
Assessment group	Department of Fisheries and Oceans -				
	Maritimes Region				
Assessment authors	Simon, James E.				
Assessment method	Temporal indices derived from scientific				
	survey data				
Publication year	2002				
Timeseries span	1970-1987				
Document	NAFO-BARNSK-2002.pdf (pdf not in				
	database)				
Recorder	PREFONTAINE				
Date entered	2008-07-09				
Date last loaded	2011-07-25				
QA/QC complete	YES				
Date approved	2011-06-10				

E seco	ndary LME	2		tertiar	y LME	
8 - Scotian Shelf 7 - Northeast U.S. Cont					wfoundla	and-Labrador Shelf
Parameter	Value	Units				
REC-AGE SSB-AGE-yr	r					
	ex		Refere	nce poin	ts	•
•			Parameter	Value	Units	
•						•
L50-yr L50-cm						
	Shelf 7 - N Parameter REC-AGE SSB-AGE-yr SSB-SEX-se TB-AGE-yr F-AGE-yr M A50-yr	Shelf 7 - Northeast U Parameter Value REC-AGE SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr	Shelf 7 - Northeast U.S. Cont Parameter Value Units REC-AGE SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr	Shelf 7 - Northeast U.S. Continental Shelf Parameter Value Units REC-AGE SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr	Shelf 7 - Northeast U.S. Continental Shelf 9 - New Parameter Value Units REC-AGE SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr	Shelf 7 - Northeast U.S. Continental Shelf 9 - Newfoundle Parameter Value Units REC-AGE SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr

Time series minima and maxima

SSB R F TB Catch

Minimum year Maximum year Time series minimum Time series maximum Units

No biomass data available

No recruitment data available

No exploitation data available

Assessment of Eastern Scotian Shelf atlantic cod (Gadus morhua) Assessment ID:DFO-MAR-COD4VsW-1958-2002-PREFONTAINE

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.

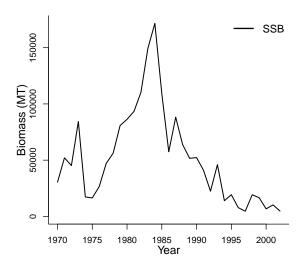
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Maritimes Region
Assessment authors	Fanning, L.P.
Assessment method	Unknown
Publication year	2003
Timeseries span	1958-2002
Document	NAFO-COD4VsW-2003.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-09
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2009-06-08

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

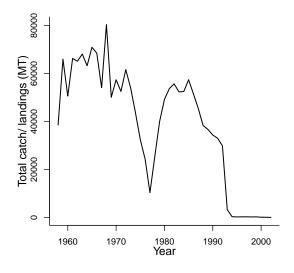
Parameter	Value	Units
A50-yr L50-cm REC-AGE SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr	3 SEE FIGURES 15 AND 16 OF THE ASSESSMENT	yr cm

Reference points					
Parameter	Value	Units			
MORATOR-yr-yr	1993-2008	yr-yr			
SSBrecovery-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



No recruitment data available



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

(Melanogrammus aeglefinus)
Assessment ID:DFO-MAR-HAD4X5Y-1960-2003-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/166

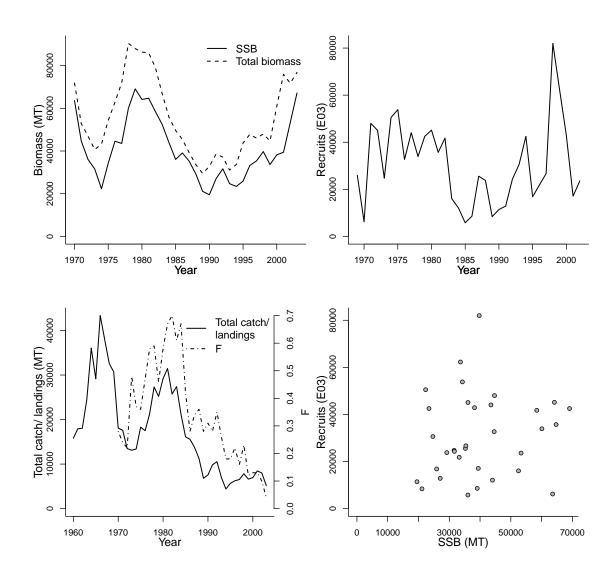
Area ID: Canada-DFO-4X5Y

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Maritimes Region
Assessment authors	Hurley, P.C.F.
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2003
Timeseries span	1960-2003
Document	NAFO-HAD4X5Y-2003.pdf (pdf in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-03
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2011-03-02

pri	imary LME			secondary L	ME	tertiary LME
7 -	Northeast U.S.	Contine	ental Shelf	8 - Scotian S	Shelf	na
	Parameter	Value	Units			
	SSB-AGE-yr REC-AGE-yr	4+ 1	yr yr			
	F-AGE-yr-yr TB-AGE-yr	5-7 yr-yr 1-10 yr	yr-yr	Reference Parameter	ce poir Valu	
	M-1/T SSB-SEX-sex	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	1969	1970	1970	1960
Maximum year	2003	2002	2003	2003	2003
Time series minimum	19506	5765	0.04	29495	4406
Time series maximum	69091	81978	0.7	90408	43349
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

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.

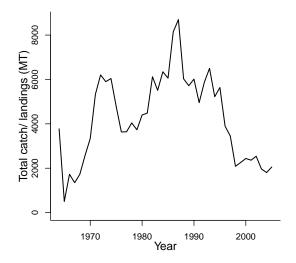
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Maritimes Region
Assessment authors	Bundy, A.
Assessment method	Unknown
Publication year	2005
Timeseries span	1964-2005
Document	NAFO-WHAKE4VWX5-2005.pdf (pdf in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-18
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2009-06-08

primary LME	secondary L	ME		tert	iary LME
8 - Scotian Shelf	7 - Northeas	st U.S. C	ontinental Sh	elf na	
Parameter	Value	Units			
F-AGE-yr-yr REC-AGE SSB-AGE-yr	SEE NOTES	yr-yr		nce poin	
SSB-SEX-sex TB-AGE-yr M A50-yr L50-cm			Parameter	Value	Units

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

No biomass data available

No recruitment data available



Assessment of Labrador - NE Newfoundland american plaice (*Hippoglossoides platessoides*) Assessment ID:DFO-NFLD-AMPL23K-1960-2004-PREFONTAINE

Assessment ID:DFO-NFLD-AMPL23K-1960-2004-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/8

Area ID: multinational-NAFO-23K

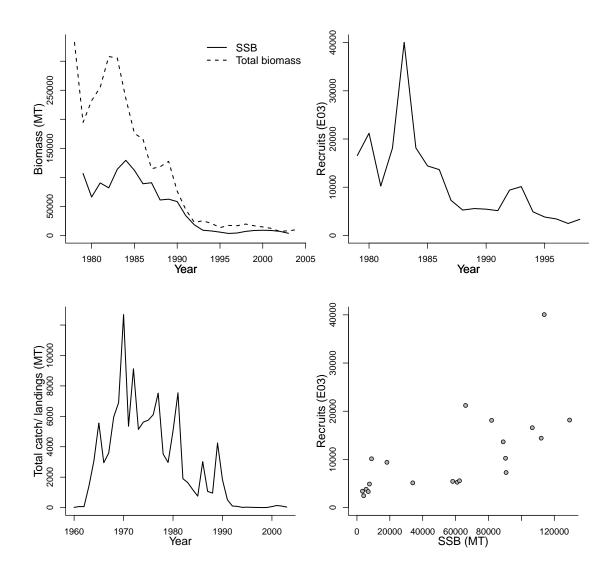
General assessment details.

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	2011-07-25
QA/QC complete	YES
Date approved	2009-06-08

primary LME		secondary LME	tertia	ry LME
9 - Newfoundla	and-Labrador Shelf	na	na	
Parameter	Value			Units
SSB-SEX-sex	1			sex
REC-AGE-yr	3+			yr
TB-AGE-yr	0-19			yr
A50-yr	FOUND AS A TIME	E SERIES IN FIGU	RE 10	yr
L50-cm	FOUND AS A TIME	E SERIES IN FIGU	RE 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.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/178

Area ID: Canada-DFO-3Ps

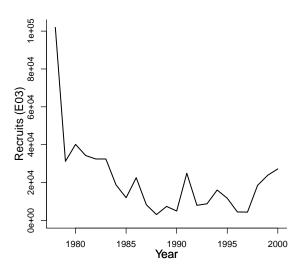
General assessment details.

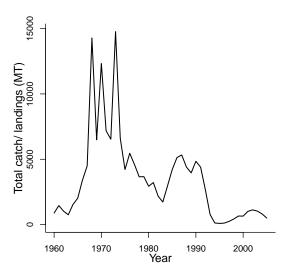
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Newfoundland Region
Assessment authors	Morgan, M.J.
Assessment method	Unknown
Publication year	2005
Timeseries span	1960-2005
Document	RES2005_069_e.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-07-04
Date last loaded	2011-07-27
QA/QC complete	YES
Date approved	2011-06-10

primary LM	primary LME			secondary I	LME	tertiary I	LME
9 - Newfour	ndland-l	Labrador	Shelf	8 - Scotian	Shelf	na	
Parameter	Value	Units					
REC-AGE-yr SSB-AGE-yr SSB-SEX-sex	5	yr	Param		ence po Value		Units
TB-AGE-yr F-AGE-yr M A50-yr L50-cm				MT (TB) TOR-yr-yr)-MT	7.7-1 1993 13.6	6.2 -present	MT yr-yr MT

Time series minima and maxima							
SSB R F TB Catch							
Minimum year		1978			1960		
Maximum year		2000			2005		
Time series minimum		3070			90		
Time series maximum		101960			14769		
Units		E03			MT		

No biomass data available





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

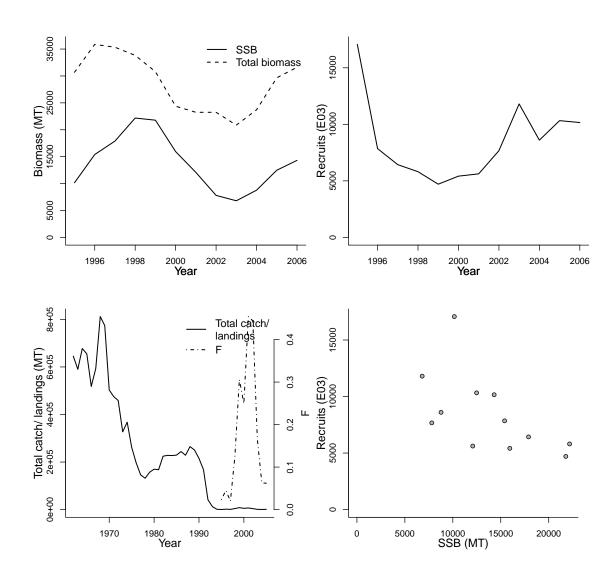
Area ID: Canada-DFO-2J3KL

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	2011-07-25
QA/QC complete	YES
Date approved	2011-06-10

primary LM	primary LME				ME	tertiary	LME
9 - Newfoun	ıdland-L	abrador	Shelf	na		na	
Parameter	Value	Units					
SSB-AGE-yr REC-AGE-yr	2+ 3	yr yr					
F-AGE-yr-yr	2-10	yr-yr		Referen	ice p	oints	
A50-yr	6-7	yr	Para	meter	Val	ue	Units
M-1/T SSB-SEX-sex	0.4	1/T	MOI	RATOR-yr-yr	199	92-2005	yr-yr
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 St. Pierre Bank atlantic cod (Gadus morhua) Assessment ID:DFO-NFLD-COD3Ps-1959-2004-PREFONTAINE

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

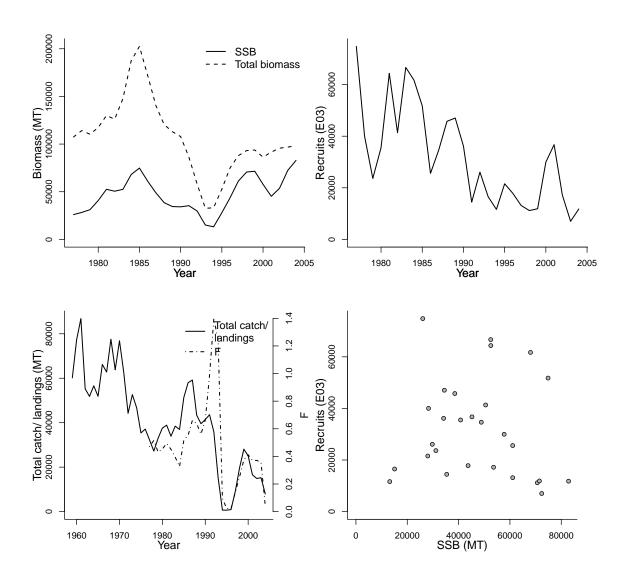
Area ID: Canada-DFO-3Ps

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Newfoundland Region
Assessment authors	Brattey, J.
Assessment method	The ADAPT approach with year effects in
	a catch multiplier
Publication year	2004
Timeseries span	1959-2004
Document	DFO-COD3Ps-2004.pdf (pdf in database)
Recorder	PREFONTAINE
Date entered	2008-05-27
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2009-06-08

primary LN	ΊE		secondary LM	IE tertiary I	LME
9 - Newfou	ndland-	Labrador	Shelf na	na	
Parameter	Value	Units			
A50-yr	7-8	yr			
M-1/T	0.2	1/T	Reference	ce points	
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			MORATOR-yr-yr	1994-1996	yr-yr
SSB-SEX-sex			SSBrecovery-1-MT	36000	MT
TB-AGE-yr F-AGE-yr			SSBrecovery-2-MT	13000	MT
M					
L50-cm					

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



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

Assessment

ID:DFO-NFLD-MONK2J3KLNOPs-1977-2000-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/5

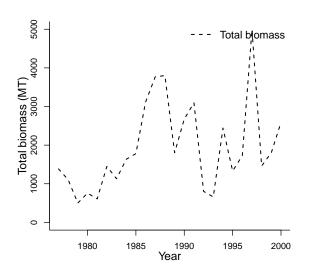
Area ID: Canada-DFO-2J3KLNOPs

General assessment details.

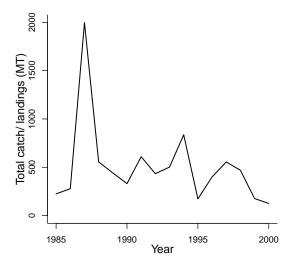
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Newfoundland Region
Assessment authors	Kulka, D.W.
Assessment method	Unknown
Publication year	2001
Timeseries span	1977-2000
Document	NAFO-MONK2J3KLNOPs-2001.pdf (pdf
	in database)
Recorder	PREFONTAINE
Date entered	2008-06-26
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2009-06-08

pı	rimary LME			secondary LI	ME te	ertiary LME
9	- Newfoundland	na	n	a		
	Parameter	Value	Units			
	REC-AGE					
	SSB-AGE-yr					
	SSB-SEX-sex			Referen	ce poi	nts
	TB-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				1977	1985	
Maximum year				2000	2000	
Time series minimum				501	126	
Time series maximum				4996	1997	
Units				MT	MT	



No recruitment data available



Assessment of Labrador - NE Newfoundland redfish species (Sebastes spp)

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.

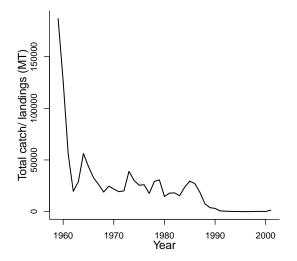
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Newfoundland Region
Assessment authors	Power, D.
Assessment method	Unknown
Publication year	2001
Timeseries span	1959-2001
Document	NAFO-RED23K-2001.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-08-19
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2011-06-10

primary LM	E			secondary L	ME	tertiary	LME
9 - Newfoun	ıdland-L	abrador	Shelf	na		na	
Parameter	Value	Units					
REC-AGE							
SSB-AGE-yr				Referer	ice p	oints	
SSB-SEX-sex			Para	ımeter	Valı	ue	Units
TB-AGE-yr			F0.1	-1/yr (F)	0.13	2	1/yr
F-AGE-yr M				RATOR-yr-yr	199	7-2001	yr-yr
A50-yr							
L50-cm							

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



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.png	

	\AM@currentdocname .png
.png	

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

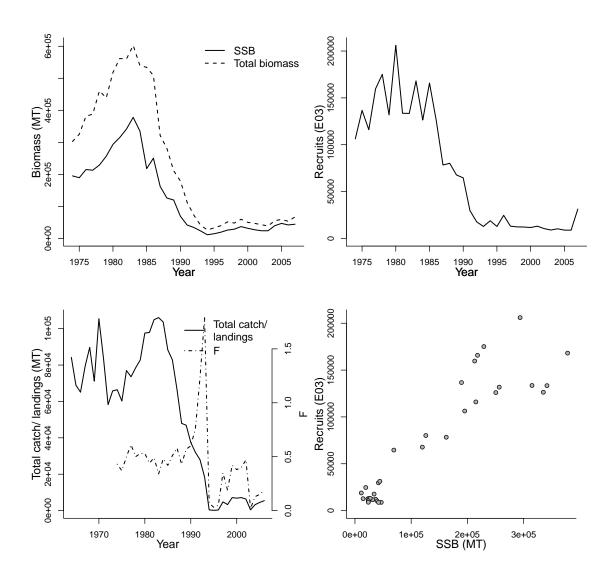
Area ID: Canada-DFO-3Pn4RS

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Quebec Region
Assessment authors	Fréchet, Alain
Assessment method	A general approach to fitting VPA models.
	ADAPT is based on minimising the sum-
	of-squares over any number of indices of
	abundance to find best-fit parameters.
Publication year	2007
Timeseries span	1964-2007
Document	DFO-COD3Pn4Rs-2007.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-08-20
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2009-06-08

primary LME	seconda	ry LME	tertiary LME
9 - Newfoundland-Labrador S	helf na		na
Parameter	Value	Units	
SSB-AGE-yr REC-AGE-yr	3+ 3	yr yr	
F-AGE-yr-yr	7-10	yr-yr	
A50-yr M-1/T	4-5 timeseries	yr 1/T	
SSB-SEX-sex TB-AGE-yr			
M L50-cm			
Refer	ence points		
Parameter Va	lue		Units
MORATOR-yr-yr 19	94-1996 AND	2003	yr-yr

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



Assessment of Gulf of St. Lawrence greenland halibut (*Reinhardtius hippoglossoides*) Assessment ID:DFO-QUE-GHAL4RST-1970-2002-PREFONTAINE

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

Area ID: Canada-DFO-4RST

General assessment details.

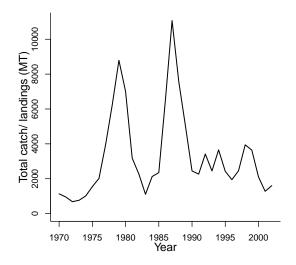
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Quebec Region
Assessment authors	Bernier, B.
Assessment method	Unknown
Publication year	2003
Timeseries span	1970-2002
Document	NAFO-GHAL4RST-2003.pdf (pdf in
	database)
Recorder	PREFONTAINE
Date entered	2008-07-03
Date last loaded	2011-07-27
QA/QC complete	YES
Date approved	2011-06-10

primary LME 9 - Newfoundland-Labrador Shelf Parameter Value Units REC-AGE SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr L50-cm secondary LME tertiary LME 8 - Scotian Shelf na Reference points Parameter Value Units Parameter Value Units							
Parameter Value Units REC-AGE SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr	pr	imary LME		secondary Ll	ME	tertiary LME	
REC-AGE SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr	9 -	9 - Newfoundland-Labrador Shelf			8 - Scotian S	Shelf	na
SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr		Parameter	Value	Units			
TB-AGE-yr F-AGE-yr M A50-yr		SSB-AGE-yr					
M A50-yr		TB-AGE-yr			-		
· · · · · · · · · · · · · · · · · · ·		M					
		-					

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

No biomass data available

No recruitment data available



Assessment of NAFO division 4R herring (Clupea

harengus)
Assessment ID:DFO-QUE-HERR4RFA-1971-2003-PREFONTAINE
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/167

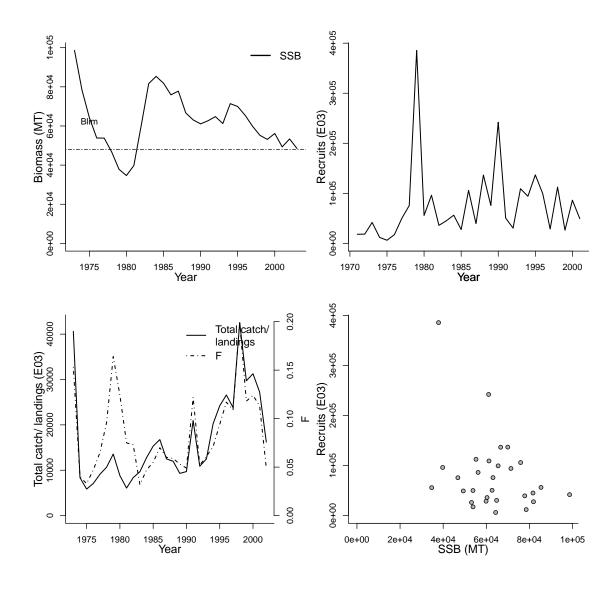
Area ID: Canada-DFO-4R

General assessment details.

Detail	Value					
Management body	DFO					
Assessment group	Department of Fisheries and Oceans -					
	Quebec Region					
Assessment authors	Grégoire, François					
Assessment method	Sequential Population Analysis / ADAPT					
Publication year	2004					
Timeseries span	1971-2003					
Document	NAFO-HERR4RSP-2004.pdf (pdf in					
	database)					
Recorder	PREFONTAINE					
Date entered	2008-06-05					
Date last loaded	2011-07-25					
QA/QC complete	YES					
Date approved	2010-07-14					

primary LME			secondary LM	E tertia	ary LME
9 - Newfoundla	ınd-Labra	dor Shelf		na	ay Bivin
Parameter	Value	Units			
SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr A50-yr M-1/T SSB-SEX-sex TB-AGE-yr M L50-cm	2+ 2 4+ 03-Apr 0.2	yr yr yr-yr yr 1/T	Reference Parameter Blim-MT (TB) F0.1-1/yr (F) Fmax-1/yr (F) Bbuf-MT (TB)	ee points Value 47953 0.3 0.55 57453	Units MT 1/yr 1/yr MT

Time series minima and maxima							
	SSB	R	F	ТВ	Catch		
Minimum year	1973	1971	1973		1973		
Maximum year	2003	2001	2002		2002		
Time series minimum	34671	6244	0.032		5849		
Time series maximum	98616	385586	0.199		42543		
Units	MT	E03	1/T		E03		



Assessment of NAFO division 4R herring (Clupea

harengus)
Assessment ID:DFO-QUE-HERR4RSP-1963-2004-PREFONTAINE
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/168

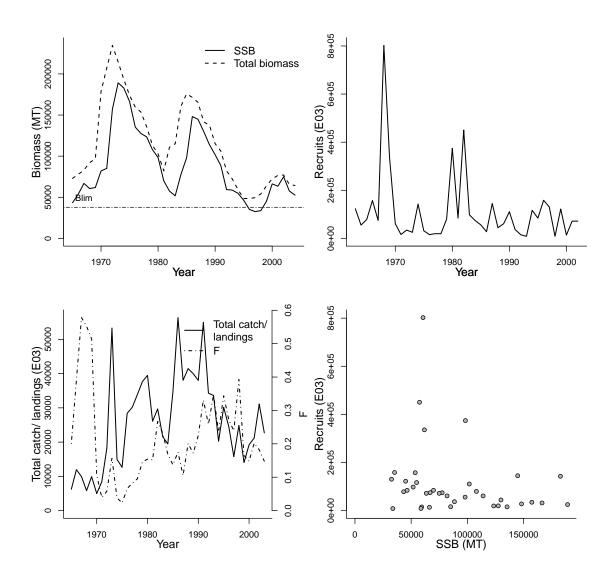
Area ID: Canada-DFO-4R

General assessment details.

Detail	Value			
Management body	DFO			
Assessment group	Department of Fisheries and Oceans -			
	Quebec Region			
Assessment authors	Grégoire, François			
Assessment method	Sequential Population Analysis / ADAPT			
Publication year	2004			
Timeseries span	1963-2004			
Document	NAFO-HERR4RSP-2004.pdf (pdf in			
	database)			
Recorder	PREFONTAINE			
Date entered	2008-05-30			
Date last loaded	2011-07-25			
QA/QC complete	YES			
Date approved	2010-07-14			

nrimora IME			googn down I N	TE touti	owr IME
primary LME			secondary LM	ie teru	ary LME
9 - Newfoundla	elf na	na			
Parameter	Value	Units			
SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr	2+ 2 4+	yr yr yr-yr	Reference Parameter	ce points Value	Units
A50-yr M-1/T SSB-SEX-sex TB-AGE-yr M L50-cm	3-4 0.2	yr 1/T	Blim-MT (TB) F0.1-1/yr (F) Fmax-1/yr (F) Bbuf-MT (TB)	37831 0.3 0.55 57453	MT 1/yr 1/yr MT

Time series minima and maxima					
SSB R F TB Catch					
Minimum year	1965	1963	1965	1965	1965
Maximum year	2004	2002	2003	2004	2003
Time series minimum	32559	8533	0.023	48431	4983
Time series maximum	189156	802298	0.578	234686	56356
Units	MT	E03	1/T	MT	E03



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

Assessment

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

Area ID: Canada-DFO-3Pn4RSTVn

General assessment details.

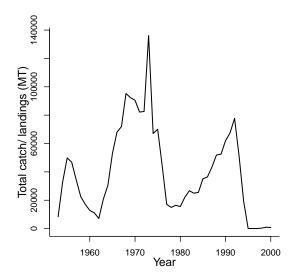
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Quebec Region
Assessment authors	Morin, B.
Assessment method	Temporal indices derived from scientific
	survey data
Publication year	2001
Timeseries span	1953-2000
Document	NAFO-RED3Pn4RSTVn-2001.pdf (pdf
	not in database)
Recorder	PREFONTAINE
Date entered	2008-07-25
Date last loaded	2011-07-27
QA/QC complete	YES
Date approved	2011-06-10

primary L	ME			secondary	LME	tertiary I	LME
9 - Newfor	ındland [.]	-Labradoı	Shelf	8 - Scotian	Shelf	na	
Parameter	Value	Units					
REC-AGE							
SSB-AGE-yr				Refer	ence po	oints	
SSB-SEX-sex TB-AGE-yr			Param		Value		Units
F-AGE-yr			MORA	TOR-yr-yr	1995-	PRESENT	yr-yr
M							
A50-yr							
L50-cm							

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

No biomass data available

No recruitment data available



Assessment of () Assessment ID:DFO-SG-COD4TVn-1965-2007-PREFONTAINE Issue URL:

Area ID:

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	
Date entered	
Date last loaded	
QA/QC complete	
Date approved	

_	primary LME	seco	ndary LN	/IE tertiary	LME	
_	8 - Scotian Shelf	na		na		
Parameter	Value		Units			
F-AGE-yr-y A50-yr	r 7+ 4-5		yr-yr yr			
M-1/T	SEE TIMESEF	RIES	1/T	Refere	nce poin	ts
REC-AGE				Parameter	Value	Units
SSB-AGE-y SSB-SEX-se				Bcrp-MT	80000	MT
TB-AGE-yr						
M						
L50-cm						

Time series minima and maxima

SSB R F TB Catch

Minimum year Maximum year Time series minimum Time series maximum Units

No biomass data available

No recruitment data available

No exploitation data available

Assessment of Southern Gulf of St. Lawrence

herring (Clupea harengus)
Assessment ID:DFO-SG-HERR4TFA-1974-2007-PREFONTAINE
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/169

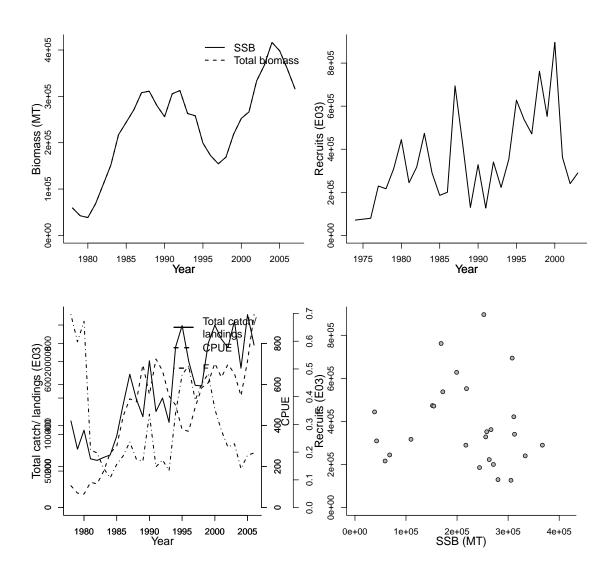
Area ID: Canada-DFO-4T

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Southern Gulf Region
Assessment authors	LeBlanc, C.H.
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2007
Timeseries span	1974-2007
Document	NAFO-HERR4TFA-2007.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-05
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2010-07-14

			Parameter	Value	Units
			SSB-AGE-yr	4+	yr
			REC-AGE-yr	4	yr
primary LME	secondary LME ter	tiary LME	F-AGE-yr-yr	5-10	yr-yr
primary EWIE	secondary LIVIE ter	tiary Divite	TB-AGE-yr	4+	yr
8 - Scotian Shelf	na na	-	M-1/T	0.2	1/T
			SSB-SEX-sex		
			M		
			A50-yr		
			L50-cm		
	Referen	nce points			_
	Parameter	Value	Units		
	Busr-MT	172000	MT		
	Blrp-MT	51000	MT		
	SSBrecovery-M'	Г 37000	MT		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1974	1978	1978	1978
Maximum year	2007	2003	2006	2007	2006
Time series minimum	38470.25	71101	0.107	38470	64654
Time series maximum	416422.04	896001	0.696	416422	264254
Units	MT	E03	1/T	MT	E03



Assessment of Southern Gulf of St. Lawrence

herring (Clupea harengus)
Assessment ID:DFO-SG-HERR4TSP-1974-2007-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/170

Area ID: Canada-DFO-4T

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Southern Gulf Region
Assessment authors	LeBlanc, C.H.
Assessment method	Sequential Population Analysis / ADAPT
Publication year	2007
Timeseries span	1974-2007
Document	NAFO-HERR4TFA-2007.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-05
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2010-07-14

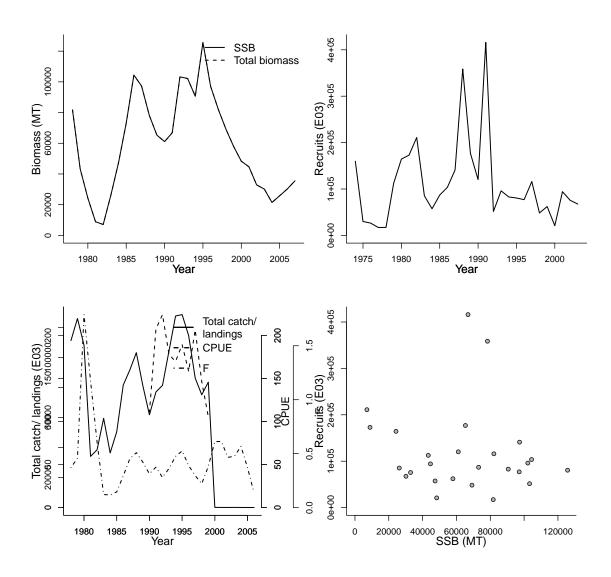
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

					Parameter	Value	Units
IMD		- L. IMD	4 . 4.	LMD	SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr	4+ 4 6-8	yr yr yr-yr
primary LME	seco	ndary LME	tertia	ry LME	TB-AGE-yr	4-10	yr
8 - Scotian Shelf	na		na		M-1/T	0.2	1/T
					SSB-SEX-sex		
					M		
					A50-yr		
					L50-cm		
	-	Ref	erence	points			
	_	Parameter		Value	Units		
	_	F0.1-1/yr (F)	0.35	1/yr		
		Busr-MT		54000	MT		
		Blrp-MT		22000	MT		

SSBrecovery-MT 11500

MT

Time series minima and maxima					
SSB R F TB Catch					
Minimum year	1978	1974	1978	1978	1978
Maximum year	2007	2003	2006	2007	2006
Time series minimum	7084.78	17034	0.117	7085	76.2
Time series maximum	125697.55	415931	1.789	125698	128513
Units	MT	E03	1/T	MT	E03



Assessment of NAFO divisions 01ABCDEF

greenland halibut (*Reinhardtius hippoglossoides*) Assessment ID:NAFO-SC-GHAL01ABCDEF-1987-2006-PREFONTAINE

Assessment ID:NAFO-SC-GHAL01ABCDEF-1987-2006-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/4

Area ID: multinational-NAFO-01ABCDEF

General assessment details.

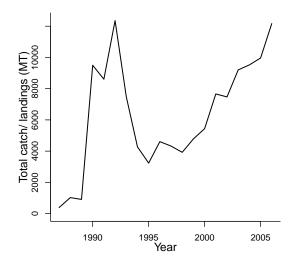
Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Jrgensen, O.A.
Assessment method	Temporal indices derived from scientific
	survey data
Publication year	2007
Timeseries span	1987-2006
Document	NAFO-GHAL01ABCDEF-2007.pdf (pdf
	not in database)
Recorder	PREFONTAINE
Date entered	2008-02-13
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2009-06-08

primary LMI	 E		secondary LME	tertiary	LME
18 - West Greenland Shelf			na	na	
Parameter	Value	Units	-		
REC-AGE-yr SSB-AGE-yr SSB-SEX-sex TB-AGE-yr F-AGE-yr M A50-yr L50-cm	1	yr	Reference Parameter Fmsy-1/yr (F)	Value	Units 1/yr

Time series minima and maxima					
	SSB	R	F	ТВ	Catch
Minimum year					1987
Maximum year					2006
Time series minimum					388
Time series maximum					12358
Units					MT

No biomass data available

No recruitment data available



Assessment of Labrador Shelf - Grand Banks greenland halibut (*Reinhardtius hippoglossoides*) Assessment ID:NAFO-SC-GHAL23KLMNO-1960-2006-PREFONTAINE

Assessment ID:NAFO-SC-GHAL23KLMNO-1960-2006-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/164

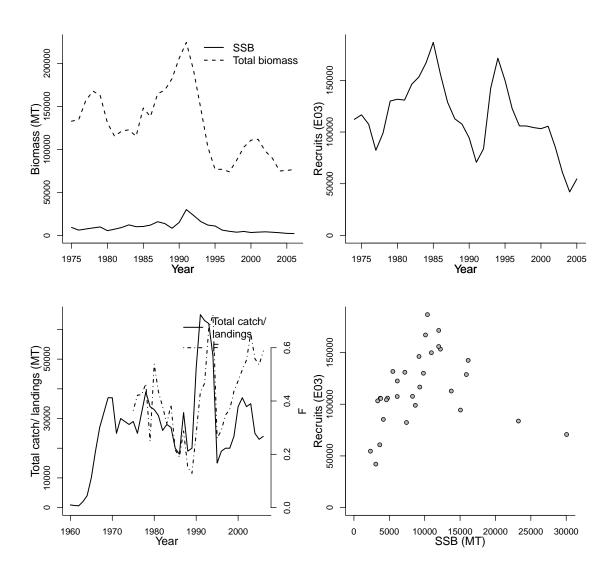
Area ID: multinational-NAFO-23KLMNO

General assessment details.

Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Healey, B.P.
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1960-2006
Document	NAFO-GHAL23KLMNO-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-02
Date last loaded	2011-07-27
QA/QC complete	YES
Date approved	2011-06-10

primary LME			secondary L	ME t	ertiary LME
9 - Newfoundland	- Newfoundland-Labrador Shelf			r	na
Parameter	Value	Units			
M-1/T SSB-AGE-yr F-AGE-yr-yr TB-AGE-yr REC-AGE SSB-SEX-sex	0.2 10+ 5-10 5+	1/T yr yr-yr yr			
M A50-yr L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1974	1975	1975	1960
Maximum year	2006	2005	2006	2006	2006
Time series minimum	2129	42064	0.1285	73913	600
Time series maximum	30050	186714	0.7243	224362	65000
Units	MT	E03	1/T	MT	MT



Assessment of West Greenland redfish species (Sebastes spp) Assessment ID:NAFO-SC-REDFISHSPP1-1965-2004-PREFONTAINE

Assessment ID:NAFO-SC-REDFISHSPP1-1965-2004-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/172

Area ID: multinational-NAFO-1

General assessment details.

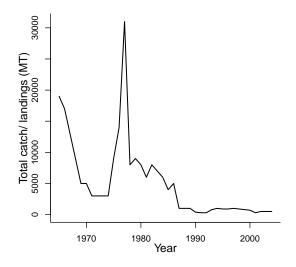
Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Siegstad, Helle
Assessment method	Unknown
Publication year	2005
Timeseries span	1965-2004
Document	NAFO-RED1-2005.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-29
Date last loaded	2011-07-25
QA/QC complete	YES
Date approved	2011-06-10

primary LME			sec	ondary LME	tertia	ry LME
18 - West Gree	enland S	helf	na		na	
Parameter	Value	Unit	s			
REC-AGE SSB-AGE-yr SSB-SEX-sex				Referer	nce poin	ts
TB-AGE-yr F-AGE-yr M A50-yr L50-cm			-	Parameter	-	

Time series minima and maxima					
Minimum year Maximum year Time series minimum					Catch 1965 2004 300
Time series maximum Units					31000 MT

No biomass data available

No recruitment data available



Assessment of Flemish Cap redfish species (Sebastes spp) Assessment ID:NAFO-SC-REDFISHSPP3M-1985-2006-PREFONTAINE

Assessment ID:NAFO-SC-REDFISHSPP3M-1985-2006-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/173

Area ID: multinational-NAFO-3M

General assessment details.

Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	vila de Melo, A. M.
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1985-2006
Document	NAFO-RED3M-2007.pdf (pdf not in database)
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primary LME			se	condary LME	tertia	ry LME
9 - Newfoundland-Labrador Shelf			na	L	na	
Parameter	Value	Units	<u> </u>			
SSB-SEX-sex REC-AGE-yr F-AGE-yr-yr TB-AGE-yr A50-yr M-1/T SSB-AGE-yr M L50-cm	1 4 6-16 4+ 14.5 0.1 AVAILABLE	sex yr yr-yr yr yr 1/T yr	• .	Referer Parameter	nce poin Value	ts Units

Time series minima and maxima										
	SSB	R	F	TB	Catch					
Minimum year	1989	1985	1989	1989	1989					
Maximum year	2006	2002	2006	2006	2006					
Time series minimum	3640	14280	0.0463	24168	1011					
Time series maximum	48810	666290	0.7453	209223	80223					
Units	MT	E03	1/T	MT	MT					

