Dear Renee,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 25 of your assessments, and now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please follow the steps below to ensure that your assessments have been dutifully represented:

QA/QC steps

For each assessment:

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

QA/QC submission process

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

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

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

If you found no issues with the QA/QC document, please type:

"QA/QC correct". If you have found issues, please update the assessment spreadsheet accordingly or write the details of corrections to be made in the dialogue box. Once we have received and processed your response, the assessment will be flagged as quality controlled and the data it contains will be used for analyses.

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

Assessment ID:DFO-COD5Zjm-1978-2003-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/163

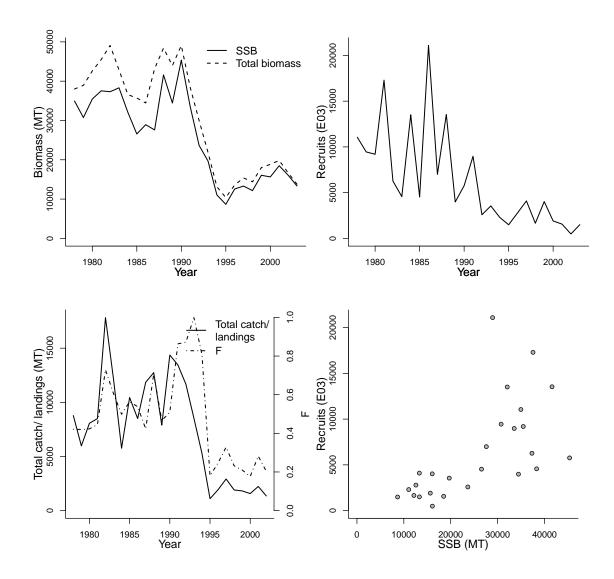
Area ID: Canada-DFO-5Zjm

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	2011-03-01			
QA/QC complete	YES			
Date approved	2009-06-08			

pı	primary LME secondary LME tertiary LM						
7 - Northeast U.S. Continental Shelf na na							
	Parameter	Value	Units				
	SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr TB-AGE-yr	3+ 1 4-9 1-10	yr yr yr-yr	Reference	ce poin		
	M-1/T SSB-SEX-sex	0.2	yr 1/T	Parameter F0.1-1/yr (F)		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 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/ramlegacybug-reporting/166

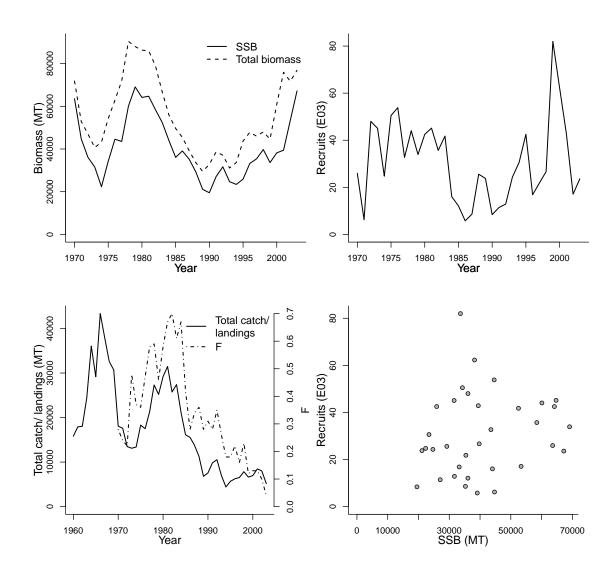
Area ID: Canada-DFO-4X5Y

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					

pr	imary LME			secondary L	ME	tertiary LME		
7 -	7 - Northeast U.S. Continental Shelf 8 - Scotian Shelf na							
	Parameter	Value	Units					
	SSB-AGE-yr REC-AGE-yr	4+ 1	yr yr					
	F-AGE-yr-yr TB-AGE-yr	•		Reference Parameter	ce poin Value			
	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	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-1968-2003-PREFONTAINE
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/105

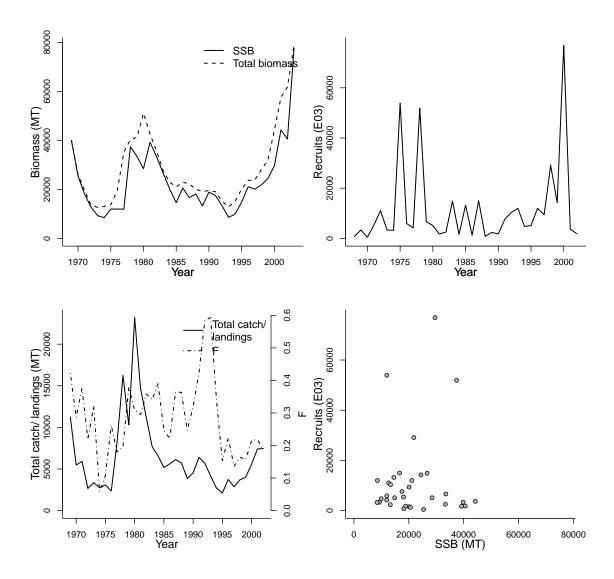
Area ID: Canada-DFO-5Zejm

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	1968-2003
Document	NAFO-HAD5Zejm-2003.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-04
Date last loaded	2010-07-14
QA/QC complete	YES
Date approved	2010-07-14

primary LME secondary LME tertiary 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	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 and Bay of Fundy herring (Clupea harenaus)

herring (Clupea harengus)
Assessment ID:DFO-HERR4VWX-1965-2006-PREFONTAINE
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/171

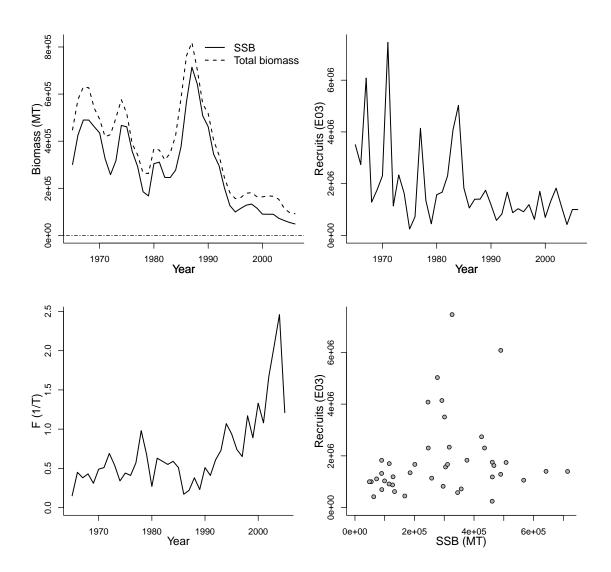
Area ID: Canada-DFO-4VWX

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	

			Parameter	Value	Units
			SSB-AGE-yr SSB-SEX-sex	3+ NA	yr
			REC-AGE-yr	1	sex
primary LME	secondary LME	tertiary LME	F-AGE-yr-yr	5-8	yr yr-yr
8 - Scotian Shelf	na	na	TB-AGE-yr	NA	yr
			A50-yr	3	yr
			M-1/T	0.2	1/T
			M		
			L50-cm		
	Rei	ference points			
Parameter	Value			Units	S
Bmsy-MT (TB)	SEE NOTES			MT	<u> </u>
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	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 Canadian Atlantic Ocean barndoor skate (Dinturus 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	2009-03-17			
QA/QC complete	NO			
Date approved				

primary LM	ME s	seconda	ary LME	,		tertiar	y LME	
8 - Scotian	Shelf 7	7 - Nort	theast U	.S. Conti	inental Shelf	9 - Nev	wfoundla	and-Labrador Shelf
-	Paramete	er	Value	Units				
-	REC-AGI SSB-AGI	_						
	SSB-SEX	•			Refere	nce poin	ts	•
	TB-AGE-	•			Parameter	Value	Units	
	F-AGE-y M	⁄r						•
	A50-yr							
	L50-cm							

Time series minima and maxima

SSB R F TB Catch

Minimum year Maximum year Time series minimum Time series maximum Units

No biomass data available

No recruitment data available

No exploitation data available

Assessment of Eastern Scotian Shelf atlantic cod (Gadus morhua)

Assessment ID:DFO-MAR-COD4VsW-1958-2002-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-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

TB-AGE-yr F-AGE-yr

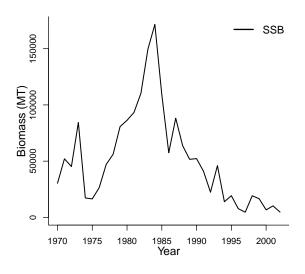
M

	8 - Scotian Shelf	na	na		
Parameter	Value				Units
A50-yr	3				yr
L50-cm	SEE FIGURES	15 AND	16 OF THE ASSE	SSMENT	cm
REC-AGE					
SSB-AGE-y	vr				
SSB-SEX-s	ex				

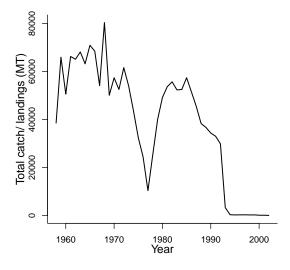
secondary LME tertiary LME

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 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.

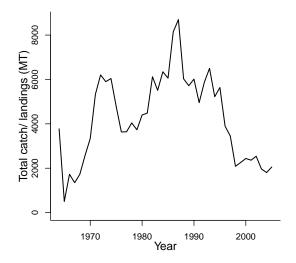
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Maritimes Region
Assessment authors	Bundy, A.
Assessment method	Unknown
Publication year	2005
Timeseries span	1964-2005
Document	NAFO-WHAKE4VWX5-2005.pdf (pdf in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-18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

primary LME	secondary L	ME		tert	iary LME
8 - Scotian Shelf 7 - Northeast U.S. Continental Shelf					
Parameter	Value	Units			
F-AGE-yr-yr REC-AGE SSB-AGE-yr	SEE NOTES	yr-yr	Deferen	ace poin	<u></u>
SSB-SEX-sex			Parameter	nce poin Value	Units
TB-AGE-yr M					
A50-yr					
L50-cm					

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

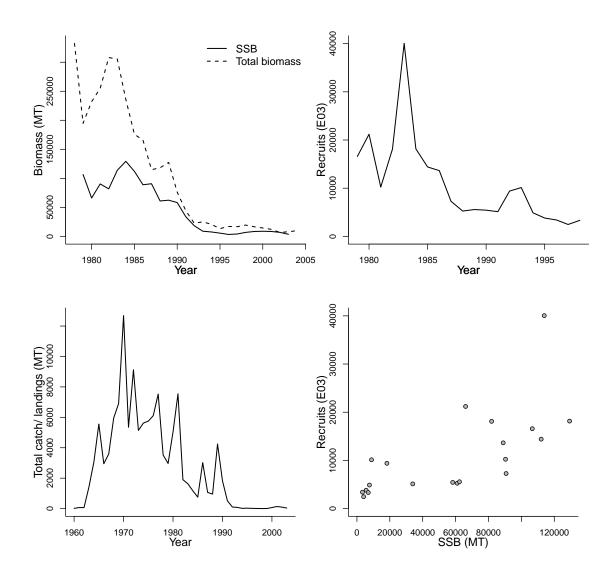
General assessment details.

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	2009-06-08			
QA/QC complete	YES			
Date approved	2009-06-08			

primary LME		secondary LME	tertiai	y LME
9 - Newfoundla	and-Labrador Shelf	na	na	
Parameter	Value			Units
SSB-SEX-sex REC-AGE-yr TB-AGE-yr A50-yr L50-cm SSB-AGE-yr F-AGE-yr	1 3+ 0-19 FOUND AS A TIME FOUND AS A TIME			sex yr yr yr cm

Referer Parameter	ice points 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/ramlegacy-bug-reporting/178

Area ID: Canada-DFO-3Ps

General assessment details.

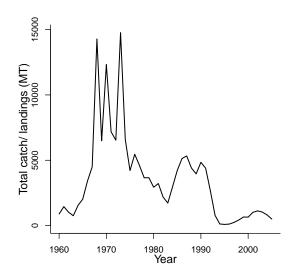
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Newfoundland Region
Assessment authors	Morgan, M.J.
Assessment method	Unknown
Publication year	2005
Timeseries span	1960-2005
Document	NAFO-AMPL3Ps-2005.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered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

primary LM	IE		seco	ndary LME	tertiary I	LME
9 - Newfoundland-Labrador Shelf 8 - Scotian Shelf na						
Parameter	Value	Units				
REC-AGE SSB-AGE-yr SSB-SEX-sex			Parameter	Reference p Valu		Units
TB-AGE-yr F-AGE-yr M			Blim-MT (7 MORATOR SSB50-MT	k-yr-yr 1993	3-present	MT yr-yr MT
A50-yr L50-cm						

Time series m	inima a	and :	max	ima	
	SSB	R	F	ТВ	Catch
Minimum year					1960
Maximum year					2005
Time series minimum					90
Time series maximum					14769
Units					MT

No biomass data available

No recruitment 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

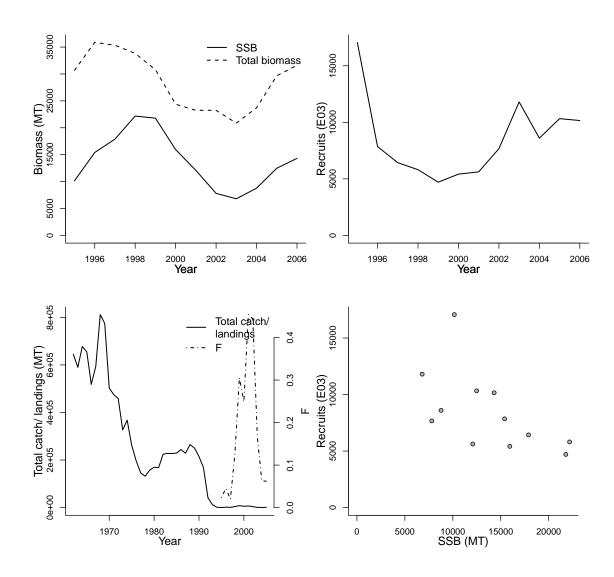
Area ID: Canada-DFO-2J3KL

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	2009-03-17
QA/QC complete	NO
Date approved	

primary LM	E			secondary L	ME	tertiary	LME
9 - Newfoundland-Labrador 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

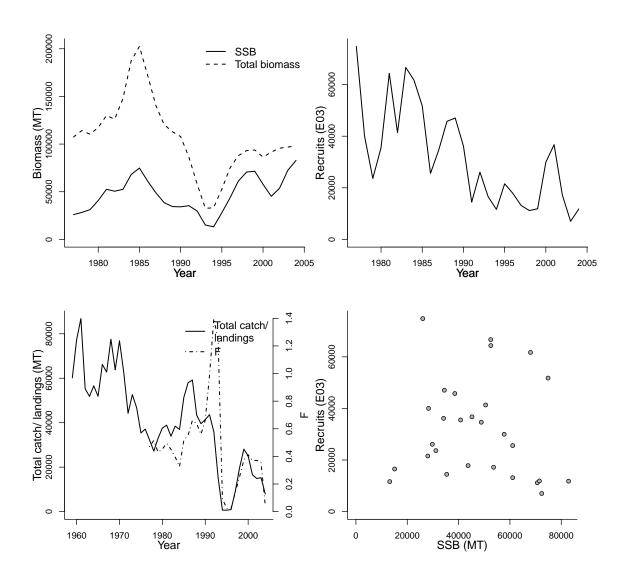
Area ID: Canada-DFO-3Ps

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	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

primary LN	ИE		secondary LM	IE tertiary I	LME
9 - Newfou	ndland-	Labradoı	r 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

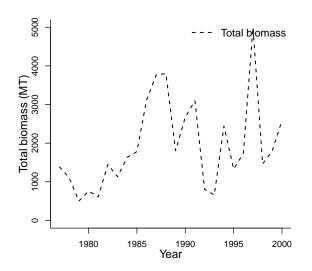
Area ID: Canada-DFO-2J3KLNOPs

General assessment details.

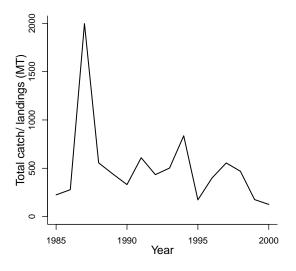
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Newfoundland Region
Assessment authors	Kulka, D.W.
Assessment method	Unknown
Publication year	2001
Timeseries span	1977-2000
Document	NAFO-MONK2J3KLNOPs-2001.pdf (pdf
	in database)
Recorder	PREFONTAINE
Date entered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

primary LME		secondary LN	ME te	rtiary LME
9 - Newfoundland-Labrador	9 - Newfoundland-Labrador Shelf		na	ı
Parameter Value U	Units			
REC-AGE				
SSB-AGE-yr				
SSB-SEX-sex		Referen	ce poin	ts
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 (*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.

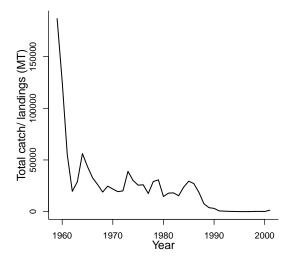
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Newfoundland Region
Assessment authors	Power, D.
Assessment method	Unknown
Publication year	2001
Timeseries span	1959-2001
Document	NAFO-RED23K-2001.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-08-19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

primary LM	E			secondary L	ME	tertiary	LME
9 - Newfoun	ıdland-L	abrador	Shelf	na		na	
Parameter	Value	Units					
REC-AGE							
SSB-AGE-yr				Referen	ice p	oints	
SSB-SEX-sex			Para	ımeter	Val	ue	Units
TB-AGE-yr			F0.1	-1/yr (F)	0.1	2	1/yr
F-AGE-yr M			MOI	RATOR-yr-yr	199	97-2001	yr-yr
A50-yr							
L50-cm							

Time series m	inima	and	ma	xima	
	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



Assessment of Scotian Shelf, Bay of Fundy and Georges Bank pollock (*Pollachius virens*) Assessment ID:DFO-POLLAVWX5Zc-1974-2007-PREFONTAINE

Assessment ID:DFO-POLL4VWX5Zc-1974-2007-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/179

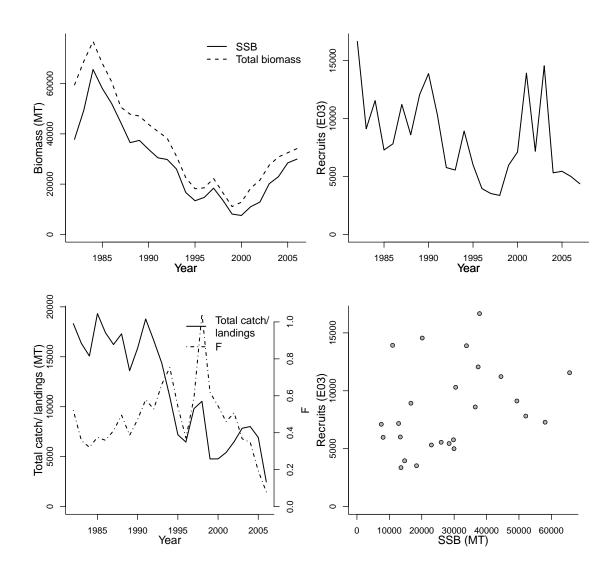
Area ID: Canada-DFO-4VWX5Zc

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	

pri	mary LME			secondary I	ME	tertiary LME
7 -	Northeast U.S.	Contine	ntal Shelf	8 - Scotian	Shelf	na
	Parameter	Value	Units			
	SSB-AGE-yr REC-AGE-yr	4+ 2+	yr yr			
	F-AGE-yr-yr M-1/T	4-9 0.2	yr-yr 1/T	Referen Parameter	ice poii Value	
	SSB-SEX-sex TB-AGE-yr		-	Fref-1/T (F)	0.2	1/T
	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 Northern Gulf of St. Lawrence atlantic cod (*Gadus morhua*) Assessment ID:DFO-QUE-COD3Pn4RS-1964-2007-PREFONTAINE

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

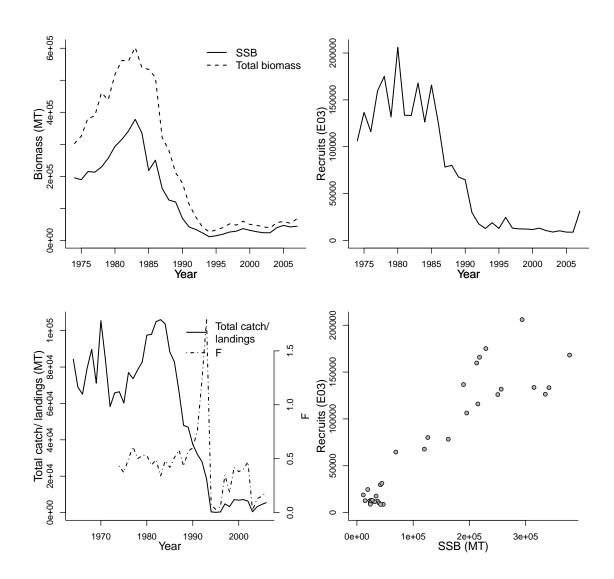
Area ID: Canada-DFO-3Pn4RS

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	2010-07-16
QA/QC complete	YES
Date approved	2009-06-08

primary LME		seconda	ary LME	tertiary LME
9 - Newfoundlar	nd-Labrador Sh	elf na		na
	Parameter	Value	Units	
	SSB-AGE-yr	3+	yr	
	REC-AGE-yr F-AGE-yr-yr	3 7-10	yr yr-yr	
	A50-yr	4-5	yr	
	M-1/T SSB-SEX-sex	timeseries	1/T	
	TB-AGE-yr M			
	L50-cm			
	Refere	nce points		
Parame	ter Val	ue		Units
MORAT	OR-yr-yr 199	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.

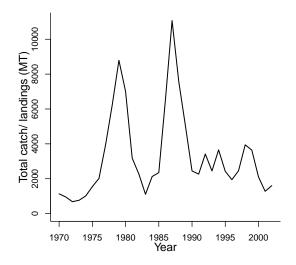
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Quebec Region
Assessment authors	Bernier, B.
Assessment method	Unknown
Publication year	2003
Timeseries span	1970-2002
Document	NAFO-GHAL4RST-2003.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-07-03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

pr	imary LME			secondary LM	ME	tertiary LME
9	9 - Newfoundland-Labrador Shelf			8 - Scotian S	helf	na
	Parameter	Value	Units			
	REC-AGE SSB-AGE-yr SSB-SEX-sex			Referer	nce noi	
	TB-AGE-yr F-AGE-yr M A50-yr L50-cm			Parameter	-	

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 4R herring (Clupea

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

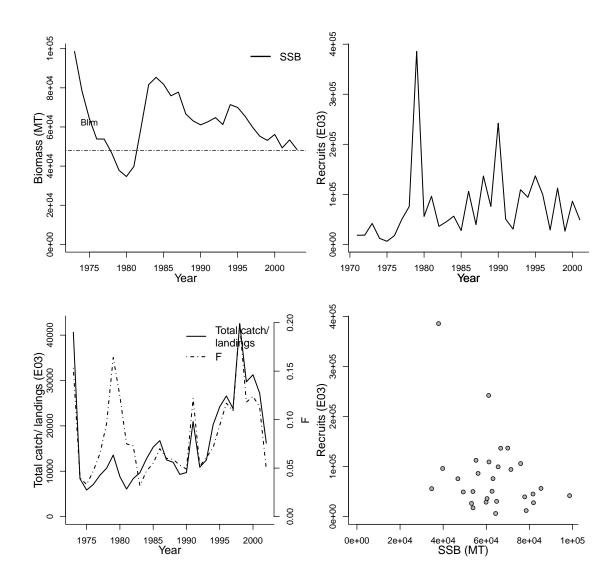
Area ID: Canada-DFO-4R

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 not in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-05
Date last loaded	2010-07-14
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	TB	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 4R herring (Clupea

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

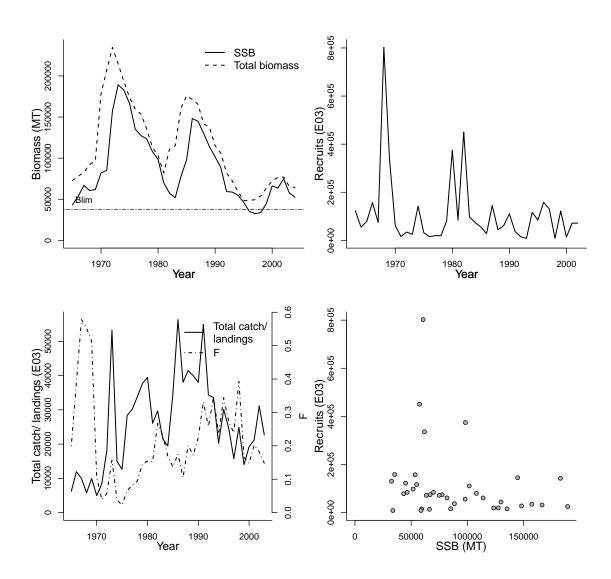
Area ID: Canada-DFO-4R

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 not in
	database)
Recorder	PREFONTAINE
Date entered	2008-05-30
Date last loaded	2010-07-14
QA/QC complete	YES
Date approved	2010-07-14

primary LME			secondary LM	IE terti	ary LME
9 - Newfoundla	nd-Labr	ador She	lf na	na	
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+ 3-4 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)	ce points Value 37831 0.3 0.55 57453	Units 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 (*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.

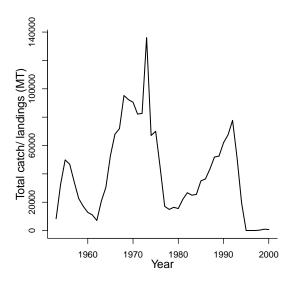
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Quebec Region
Assessment authors	Morin, B.
Assessment method	Temporal indices derived from scientific
	survey data
Publication year	2001
Timeseries span	1953-2000
Document	NAFO-RED3Pn4RSTVn.pdf (pdf not in
	database)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

primary L	primary LME			secondary	LME	tertiary L	ME
9 - Newfor	ındland [.]	-Labradoı	Shelf	8 - Scotian	Shelf	na	
Parameter	Value	Units					
REC-AGE							
SSB-AGE-yr SSB-SEX-sex				Refer	ence po	oints	
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				
Time series minimum					39				
Time series maximum					136101				
Units					MT				

No biomass data available

No recruitment data available



No SSB-recruit 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

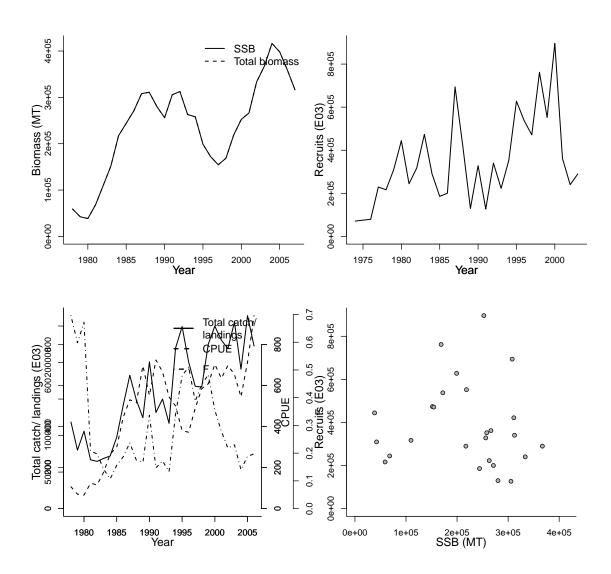
Area ID: Canada-DFO-4T

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	2010-07-14
QA/QC complete	YES
Date approved	2010-07-14

					Parameter	Value	Units
primary LME	Sec	ondary LME	 tertia	ary LME	SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr	4+ 4 5-10	yr yr yr-yr
8 - Scotian Shelf	na	-	na		TB-AGE-yr M-1/T	4+ 0.2	yr 1/T
					SSB-SEX-sex M A50-yr L50-cm		ŕ
		Refe	rence	points			
		Parameter		Value	Units		
		Busr-MT		172000	MT		
		Blrp-MT SSBrecovery-	МТ	51000 37000	MT 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/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	1974-2007
Document	NAFO-HERR4TFA-2007.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-05
Date last loaded	2010-07-14
QA/QC complete	YES
Date approved	2010-07-14

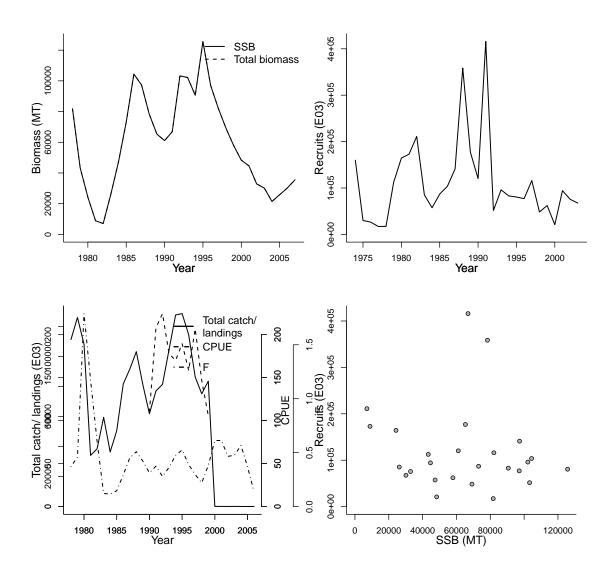
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

					Parameter	Value	Units
					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 (I Busr-MT Blrp-MT	F)	0.35 54000 22000	1/yr MT 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 01ABCDEF greenland

halibut (*Reinhardtius hippoglossoides*)
Assessment ID:NAFO-SC-GHAL01ABCDEF-1987-2006-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/4

Area ID: multinational-NAFO-01ABCDEF

General assessment details.

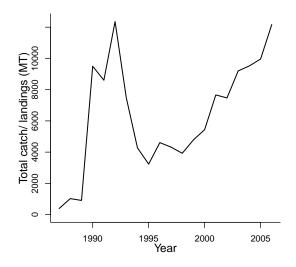
Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Jrgensen, O.A.
Assessment method	Temporal indices derived from scientific
	survey data
Publication year	2007
Timeseries span	1987-2006
Document	NAFO-GHAL01ABCDEF-2007.pdf (pdf
	not in database)
Recorder	PREFONTAINE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

primary LMI	primary 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 TB 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



No SSB-recruit 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

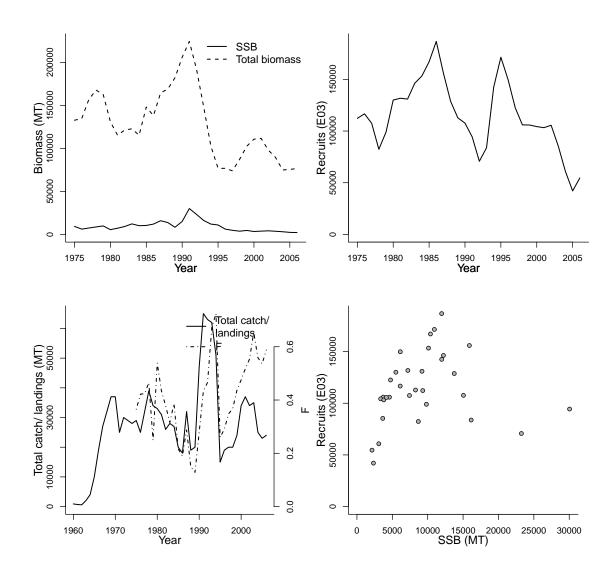
Area ID: multinational-NAFO-23KLMNO

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	2009-03-17
QA/QC complete	NO
Date approved	

primary LME			secondary LM	E terti	iary LME
9 - Newfoundlar	ıd-Labra	ador Shelf	na	na	
Parameter	Value	Units			
REC-AGE-yr	1	yr			
M-1/T	0.2	1/T	Referenc	e points	
SSB-AGE-yr			Parameter	Value	Units
SSB-SEX-sex		-			
TB-AGE-yr			F0.1-1/yr (F)	0.14	1/yr
F-AGE-yr			Fmax-1/yr (F)	0.25	1/yr
M		-			
A50-yr					
L50-cm					

Time series minima and maxima								
SSB R F TB Catch								
Minimum year 1975 1975 1975 1960								
Maximum year	· · · · · · · · · · · · · · · · · · ·							
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 (Redfish species)

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.

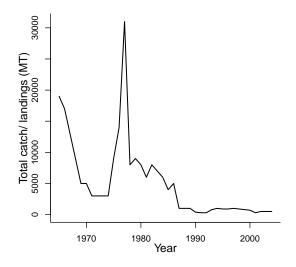
Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Siegstad, Helle
Assessment method	Unknown
Publication year	2005
Timeseries span	1965-2004
Document	NAFO-RED1-2005.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-29
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

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							
	SSB	R	F	TB	Catch		
Minimum year					1965		
Maximum year					2004		
Time series minimum					300		
Time series maximum					31000		
Units					MT		

No biomass data available

No recruitment data available



No SSB-recruit data available

Assessment of Flemish Cap redfish species (Redfish species)

(Redfish species)
Assessment ID:NAFO-SC-REDFISHSPP3M-1989-2006-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	1989-2006
Document	NAFO-RED3M-2007.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-28
Date last loaded	2009-03-17
QA/QC complete	NO
Date approved	

primary LME			secondary LM	ΛΕ te	ertiary LME
9 - Newfoundland	9 - Newfoundland-Labrador Shelf		na	n	a
Parameter	Value	Units			
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+ 15 0.1	sex yr yr-yr yr yr 1/T	Reference Parameter	-	nts Units

Time series minima and maxima								
SSB R F TB Catch								
Minimum year 1989 1989 1989 1989								
Maximum year	Maximum year 2006 2006 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			

