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.

Contents

QA/QC steps	1
QA/QC submission process	1
DFO-COD5Zjm-1978-2003-PREFONTAINE	3
DFO-HAD4X5Y-1960-2003-PREFONTAINE	5
DFO-HAD5Zejm-1969-2003-PREFONTAINE	7
DFO-HERR4VWX-1965-2006-PREFONTAINE	9
DFO-MAR-BSKATCANATL-1970-1987-PREFONTAINE	11
DFO-MAR-COD4VsW-1958-2002-PREFONTAINE	13
DFO-MAR-WHAKE4VWX5-1964-2005-PREFONTAINE	15
DFO-NFLD-AMPL23K-1960-2004-PREFONTAINE	17
DFO-NFLD-AMPL3Ps-1960-2005-PREFONTAINE	19
DFO-NFLD-COD2J3KLIS-1959-2006-PREFONTAINE	21
DFO-NFLD-COD3Ps-1959-2004-PREFONTAINE	23
DFO-NFLD-MONK2J3KLNOPs-1977-2000-PREFONTAINE	25
DFO-NFLD-REDFISHSPP23K-1959-2001-PREFONTAINE	27
DFO-POLL4VWX5Zc-1974-2007-PREFONTAINE	29
DFO-QUE-COD3Pn4RS-1964-2007-PREFONTAINE	31
DFO-QUE-GHAL4RST-1970-2002-PREFONTAINE	33
DFO-QUE-HERR4RFA-1973-2003-PREFONTAINE	35
DFO-QUE-HERR4RSP-1965-2004-PREFONTAINE	37
DFO-QUE-REDFISHSPP3Pn4RSTVn-1953-2000-PREFONTAINE	39
DFO-SG-COD4TVn-1965-2007-PREFONTAINE	41
DFO-SG-HERR4TFA-1978-2007-PREFONTAINE	43
DFO-SG-HERR4TSP-1978-2007-PREFONTAINE	45
NAFO-SC-GHAL01ABCDEF-1987-2006-PREFONTAINE	47
NAFO-SC-GHAL23KLMNO-1960-2006-PREFONTAINE	49
NAFO-SC-REDFISHSPP1-1965-2004-PREFONTAINE	51
NAFO-SC-REDFISHSPP3M-1989-2006-PREFONTAINE	53
LME map	55

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

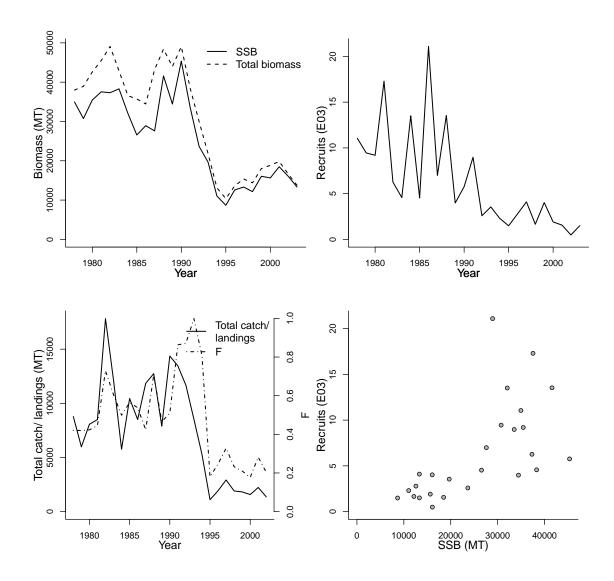
Area ID: Canada-DFO-5Zjm

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			

pr	imary LME			secondary 1	LME	tertiary LME
7 -	- Northeast U.S	ental Sh	elf 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 yr	Referen Parameter	ce poir Value	
	M-1/T M A50-yr L50-cm	0.2	1/T	F0.1-1/yr (F)	0.18	1/yr

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/ramlegacybug-reporting/166

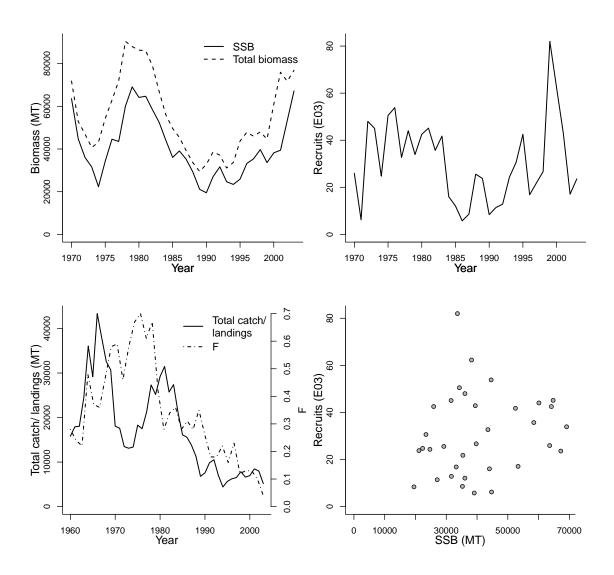
Area ID: Canada-DFO-4X5Y

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				

pri	mary LME			secondary L	ME	tertiary LME
7 -	Northeast U.S.	Contine	ental She	elf 8 - Scotian	Shelf	na
	Parameter	Value	Units			
	SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr TB-AGE-yr	4+ 1 5-7 1-10	yr yr yr-yr yr	Reference Parameter	ce poin Value	
	M-1/T M A50-yr L50-cm	0.2	1/T	F0.1-1/yr (F)	0.25	1/yr

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 44								
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

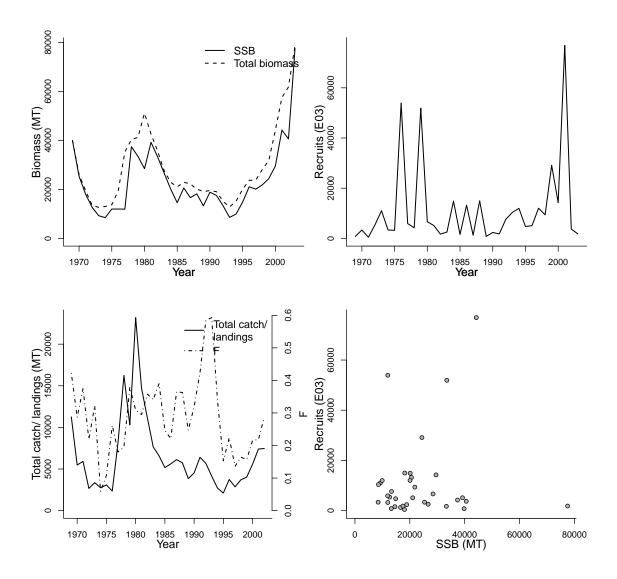
Area ID: Canada-DFO-5Zejm

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	

primary LME			secondary LN	ЛЕ terti	ary LME	
7 - Northeast U.S. Continental Shelf na na						
Parameter	Value	Units				
REC-AGE-yr F-AGE-yr-yr	1+ 4+	yr yr-yr	Reference	points		
TB-AGE-yr	1-9+	yr	Parameter	Value	Units	
M-1/T SSB-AGE-yr M	0.2	1/T	Fref-1/T (F) Brebuild-MT (TB)	0.26 65000	1/T MT	
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								
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-1965-2006-PREFONTAINE

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

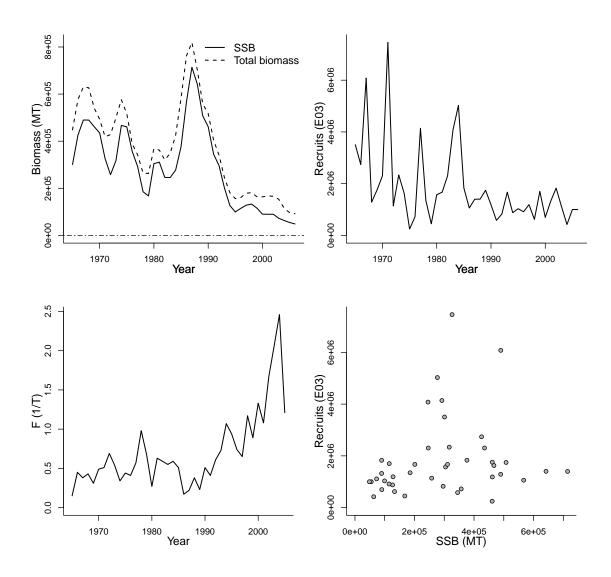
Area ID: Canada-DFO-4VWX

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	3+	yr
			REC-AGE-yr	1	yr
primary LME	secondary LME	tertiary LME	F-AGE-yr-yr	5-8	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		
	Ref	erence points			
Parameter	Value	_		Unit	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	with ages 5-9 tl	he following yea	r diml	less

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

primary L	ME secon	dary LMI	Ξ		tertiai	ry LME		
8 - Scotia:	n Shelf 7 - No	rtheast U	J.S. Cont	tinental Shelf	9 - Ne	wfoundl	and-Labrado	r Shelf
	Parameter	Value	Units					
	REC-AGE							
	TB-AGE-yr			Referen	nce poin Value			
	M A50-yr							
	F-AGE-yr M				-			

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.

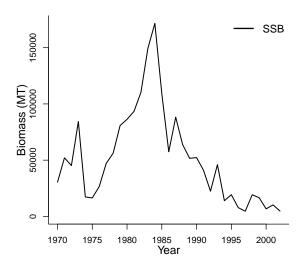
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Maritimes Region
Assessment authors	Fanning, L.P.
Assessment method	Unknown
Publication year	2003
Timeseries span	1958-2002
Document	NAFO-COD4VsW-2003.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-09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

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

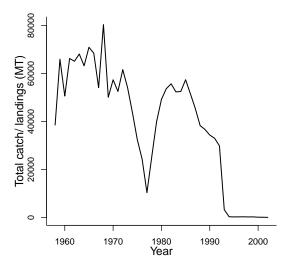
Parameter	Value	Units
A50-yr L50-cm REC-AGE SSB-AGE-yr TB-AGE-yr F-AGE-yr M	3 SEE FIGURES 15 AND 16 OF THE ASSESSMENT	yr cm

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 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.

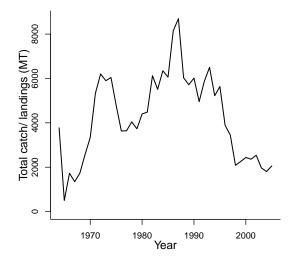
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Maritimes Region
Assessment authors	Bundy, A.
Assessment method	Unknown
Publication year	2005
Timeseries span	1964-2005
Document	NAFO-WHAKE4VWX5-2005.pdf (pdf in
	database)
Recorder	PREFONTAINE
Date entered	2008-06-18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

primary LME	secondary I	LME		ter	tiary LME
8 - Scotian Shel	f 7 - Northea	st U.S. C	ontinental Sh	ielf na	
Parameter	Value	Units			
F-AGE-yr-yr REC-AGE SSB-AGE-yr TB-AGE-yr M A50-yr L50-cm	SEE NOTES	yr-yr	Referen Parameter	nce poin Value	ts 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

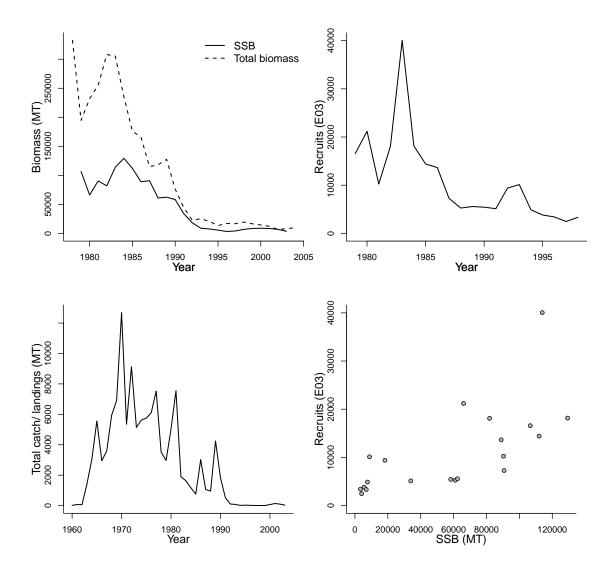
General assessment details.

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	2009-06-08		
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
REC-AGE-yr TB-AGE-yr A50-yr L50-cm SSB-AGE-yr F-AGE-yr	3+ 0-19 FOUND AS A TIME FOUND AS A TIME			yr yr yr cm

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/ramlegacy-bug-reporting/178

Area ID: Canada-DFO-3Ps

General assessment details.

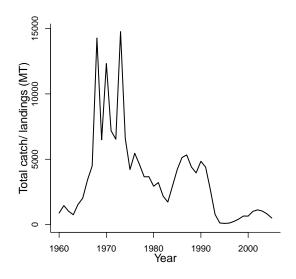
Detail	Value					
Management body	DFO					
Assessment group	Department of Fisheries and Oceans -					
	Newfoundland Region					
Assessment authors	Morgan, M.J.					
Assessment method	Unknown					
Publication year	2005					
Timeseries span	1960-2005					
Document	NAFO-AMPL3Ps-2005.pdf (pdf not in				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

primary LN	ИE		secondary 1	LME	tertiary	LME	
9 - Newfou	ndland-	Labrador	Shelf	8 - Scotian	Shelf	na	
Parameter	Value	Units					
REC-AGE				Refere	ence po	ints	
SSB-AGE-yr			Parar	neter	Value	:	Units
TB-AGE-yr F-AGE-yr				MT (TB) ATOR-yr-yr	7.7-1 1993-	6.2 -present	MT yr-yr
M A50-yr				O-MT	13.6	1	MT
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			

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

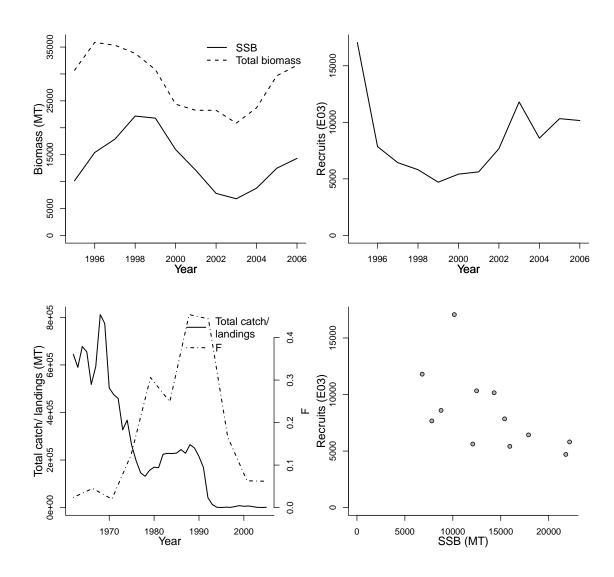
Area ID: Canada-DFO-2J3KL

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	

			secondary L	17117	tertiary	LIVIE
9 - Newfoundland-Labrador Shel					na	
Value	Units					
2+ 3 2-10	yr yr yr-yr	———Para		-		Units
0.4	yr 1/T	MOR	ATOR-yr-yr	199	2-2005	yr-yr
	2+ 3 2-10 6-7	2+ yr 3 yr 2-10 yr-yr 6-7 yr	2+ yr 3 yr 2-10 yr-yr 6-7 yr Para	2+ yr 3 yr 2-10 yr-yr 6-7 yr Referen	2+ yr 3 yr 2-10 yr-yr 6-7 yr Reference po	2+ yr 3 yr 2-10 yr-yr 6-7 yr Reference points Parameter Value

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

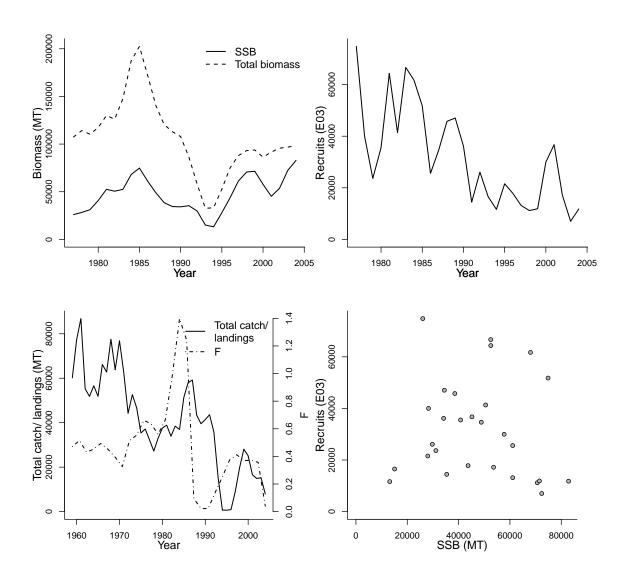
Area ID: Canada-DFO-3Ps

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 Ll	ME			secondary L	ME	tertiary	LME
9 - Newfor	ındland-	Labrado	r Shelf	na		na	
Parameter	Value	Units					
A50-yr M-1/T REC-AGE	7-8 0.2	yr 1/T	Reference Parameter		ce po Val		Units
SSB-AGE-yr TB-AGE-yr F-AGE-yr			SSBre	ATOR-yr-yr ecovery-1-MT ecovery-2-MT	360	94-1996 900 900	yr-yr MT 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

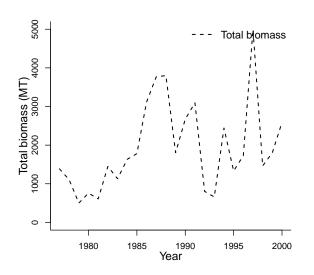
Area ID: Canada-DFO-2J3KLNOPs

General assessment details.

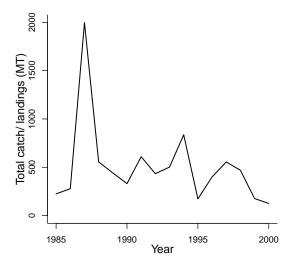
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Newfoundland Region
Assessment authors	Kulka, D.W.
Assessment method	Unknown
Publication year	2001
Timeseries span	1977-2000
Document	NAFO-MONK2J3KLNOPs-2001.pdf (pdf
	in database)
Recorder	PREFONTAINE
Date entered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

pr	imary LME			secondary I	ME	tertiary LME
9 -	9 - Newfoundland-Labrador Shelf			na		na
	Parameter	Value	Units			
	REC-AGE SSB-AGE-yr TB-AGE-yr			Referer	nce po	ints
	F-AGE-yr M A50-yr L50-cm			Parameter	Value	e 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				



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.

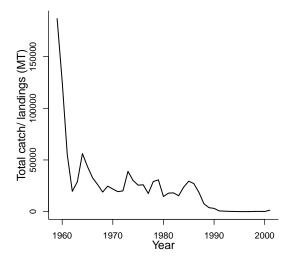
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Newfoundland Region
Assessment authors	Power, D.
Assessment method	Unknown
Publication year	2001
Timeseries span	1959-2001
Document	NAFO-RED23K-2001.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-08-19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

primary LME				ME 1	tertiary	LME
dland-L	abrador	Shelf	na]	na	
Value	Units					
		Para		-		Units
			•	0.12 1997	-2001	1/yr yr-yr
			Parai F0.1-	Value Units Referent Parameter F0.1-1/yr (F)	Value Units Reference poi Parameter Value F0.1-1/yr (F) 0.12	Value Units Reference points Parameter Value F0.1-1/yr (F) 0.12

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



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

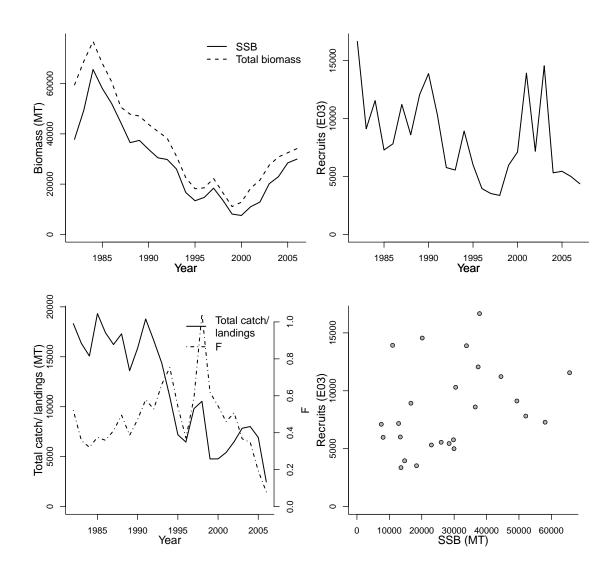
Area ID: Canada-DFO-4VWX5Zc

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	

prir	nary LME			secondary 1	tertiary LME	
7 -	Northeast U.S.	Contine	ntal Sheli	f 8 - Scotian	Shelf	na
	Parameter	Value	Units			
	SSB-AGE-yr REC-AGE-yr	4+ 2+	yr			
	F-AGE-yr-yr	4-9	yr yr-yr	Referen	-	
	M-1/T	0.2	1/T	Parameter	Value	Units
	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

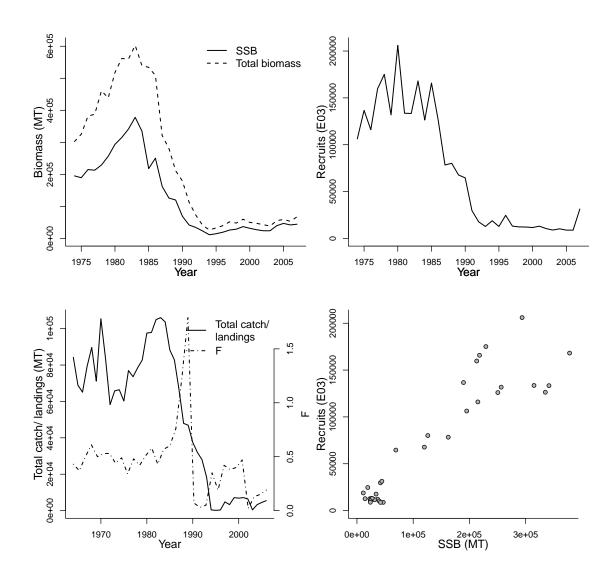
Area ID: Canada-DFO-3Pn4RS

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Quebec Region
Assessment authors	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

primary LME	second	lary LME	tertiary LME	
9 - Newfoundland-Labrador	Shelf na		na	
Parameter	Value	Units		
SSB-AGE-y	r 3+	yr		
REC-AGE-y	r 3	yr		
F-AGE-yr-y	r 7-10	yr-yr		
A50-yr	4-5	yr		
M-1/T	timeseries	1/T		
TB-AGE-yr				
M				
L50-cm				
Refe	Reference points			
Parameter V	alue -		Units	
MORATOR-yr-yr 1	994-1996 ANI	O 2003	yr-yr	

Time series minima and maxima								
SSB R F TB Catch								
Minimum year 1974 1974 1974 1964								
Maximum year								
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.

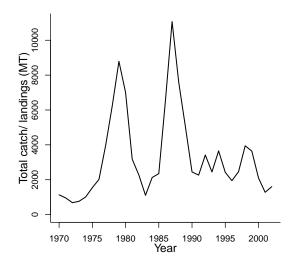
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Quebec Region
Assessment authors	Bernier, B.
Assessment method	Unknown
Publication year	2003
Timeseries span	1970-2002
Document	NAFO-GHAL4RST-2003.pdf (pdf not in
	database)
Recorder	PREFONTAINE
Date entered	2008-07-03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

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					
Parameter Value Units REC-AGE SSB-AGE-yr TB-AGE-yr F-AGE-yr M A50-yr	primary LME			secondary LME	tertiary LME
REC-AGE SSB-AGE-yr TB-AGE-yr F-AGE-yr M A50-yr	9 - Newfoundland	9 - Newfoundland-Labrador Shelf		8 - Scotian Shel	f na
SSB-AGE-yr TB-AGE-yr F-AGE-yr M A50-yr	Parameter	Value	Units		
TB-AGE-yr F-AGE-yr M A50-yr					
TB-AGE-yr F-AGE-yr M A50-yr	SSB-AGE-vr				
F-AGE-yr Parameter Value Units M A50-yr	•		Reference points		
M A50-yr	•			Parameter Va	lue Units
A50-yr	F-AGE-yr			Tarameter va	ide Offics
·	M				
·	450 vr				
150 cm	•				
LOU-CIII	L50-cm				

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	

No biomass data available

No recruitment data available



Assessment of NAFO 4R herring (Clupea

harengus)
Assessment ID:DFO-QUE-HERR4RFA-1973-2003-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/167

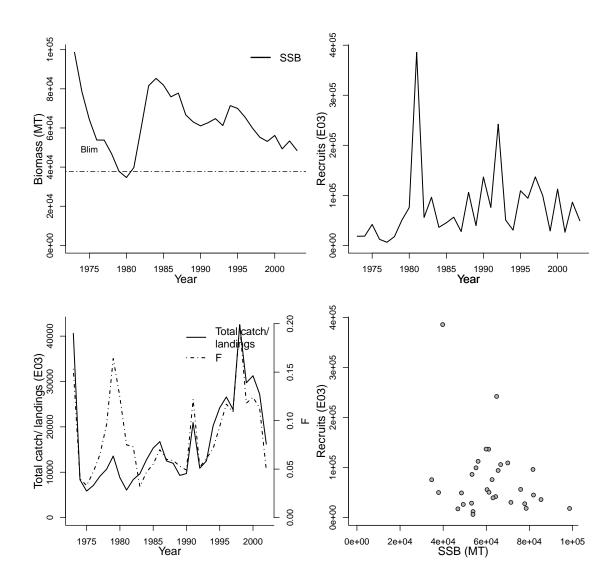
Area ID: Canada-DFO-4R

General assessment details.

Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Quebec Region
Assessment authors	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	

primary LME			secondary LM	ME tert	iary LME
9 - Newfoundland-Labrador Shelf na na					
Parameter	Value	Units			
SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr	2+ 2 4+	yr yr yr-yr	Parameter	ce points Value	Units
A50-yr M-1/T TB-AGE-yr M	4-5 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
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

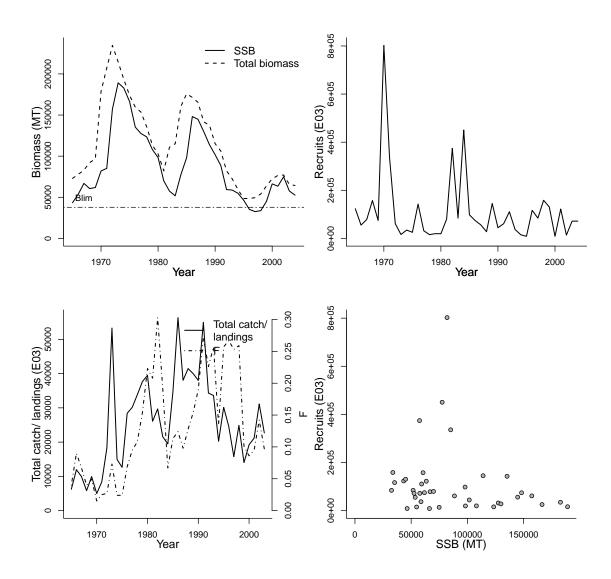
Area ID: Canada-DFO-4R

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	

primary LME			secondary LM	ME tert	iary LME		
9 - Newfoundland-Labrador Shelf na na							
Parameter	Value	Units					
SSB-AGE-yr REC-AGE-yr	2+ 2	yr yr	Reference Parameter	ce points Value	Units		
F-AGE-yr-yr A50-yr M-1/T TB-AGE-yr M L50-cm	4+ 3-4 0.2	yr-yr 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	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 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/ramlegacybug-reporting/176

Area ID: Canada-DFO-3Pn4RSTVn

General assessment details.

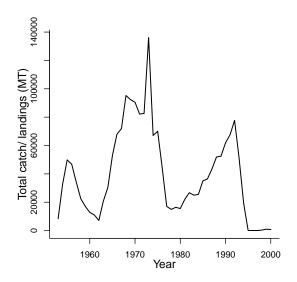
Detail	Value
Management body	DFO
Assessment group	Department of Fisheries and Oceans -
	Quebec Region
Assessment authors	Morin, B.
Assessment method	Temporal indices derived from scientific
	survey data
Publication year	2001
Timeseries span	1953-2000
Document	NAFO-RED3Pn4RSTVn.pdf (pdf not in
	database)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

primary I	ME			secondary	LME	tertiary I	ME
9 - Newfo	undland	-Labrado	r Shelf	8 - Scotia	n Shelf	na	
Parameter	Value	Units					
REC-AGE SSB-AGE-yr				Refe	rence po	ints	
TB-AGE-yr			Param		Value		Units
F-AGE-yr M			MORA	TOR-yr-yr	1995-I	PRESENT	yr-yr
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 atlantic cod (*Gadus morhua*) Assessment ID:DFO-SG-COD4TVn-1965-2007-PREFONTAINE

Assessment ID:DFO-SG-COD4TVn-1965-2007-PREFONTAINE Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/156

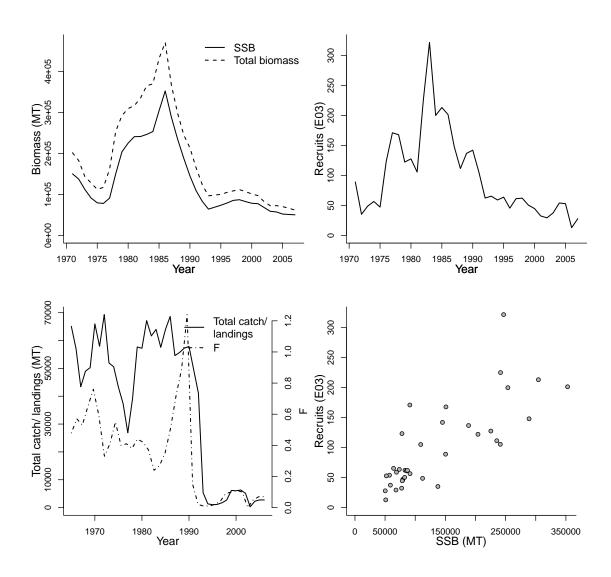
Area ID: Canada-DFO-4T

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					

I	primary LME secondary l				tertiary	LME	
8	3 - Scotian Shelf	na			na		
Parameter	Value		Units				
F-AGE-yr-yı			yr-yr				
A50-yr	4-5		yr		Refere	nce poin	ts
M-1/T REC-AGE	SEE TIMESERII	E3	1/T	Par	rameter	-	Units
SSB-AGE-yı	ſ			Bc	rp-MT	80000	MT
TB-AGE-yr							
M							
L50-cm							

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 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

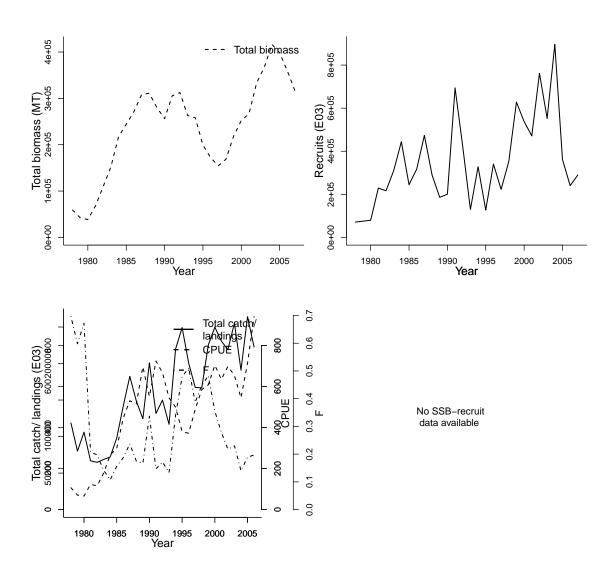
Area ID: Canada-DFO-4T

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	

					Parameter	Value	Units
						value	
					REC-AGE-yr	4	yr
					F-AGE-yr-yr	2-10	yr-yr
primary LME	sec	ondary LME	terti	ary LME	TB-AGE-yr	4+	yr
8 - Scotian Shelf	na		na		M-1/T	0.2	1/T
					SSB-AGE-yr		
					M		
					A50-yr		
					L50-cm		
		Refe	renc	e points			
		Parameter		Value	Units		
	•	Busr-MT		172000	MT		
		Blrp-MT		51000	MT		
		SSBrecovery-	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/ramlegacybug-reporting/170

Area ID: Canada-DFO-4T

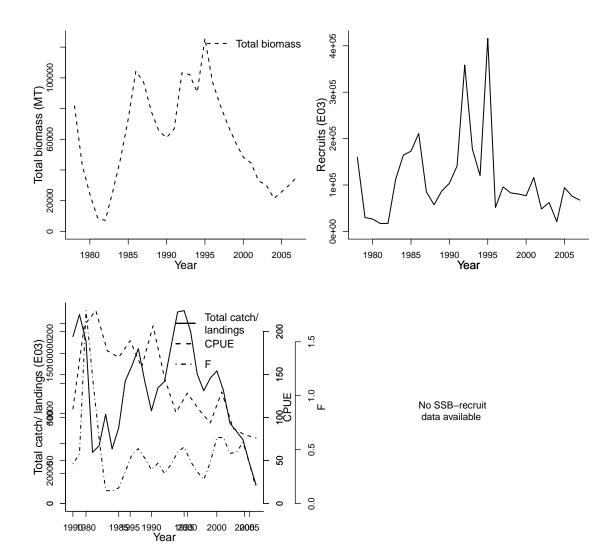
General assessment details.

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	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					

			Parameter	Value	Units
			REC-AGE-yr F-AGE-yr-yr	4 6-8	yr yr-yr
primary LME	secondary LME	tertiary LME	TB-AGE-yr	4-10	yr (T
8 - Scotian Shelf	na	na	M-1/T SSB-AGE-yr	0.2	1/T
			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			
SSBrecovery-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 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.

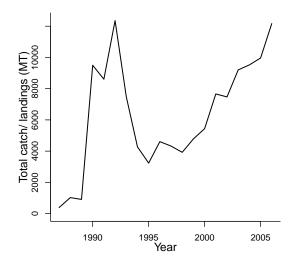
Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Jrgensen, O.A.
Assessment method	Temporal indices derived from scientific
	survey data
Publication year	2007
Timeseries span	1987-2006
Document	NAFO-GHAL01ABCDEF-2007.pdf (pdf
	not in database)
Recorder	PREFONTAINE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

primary LME		secondary LME	tertiary	LME	
18 - West Greenland Shelf		na	na		
Parameter	Value	Units	-		
SSB-AGE-yr	1	yr	Reference	-	
TB-AGE-yr F-AGE-yr			Parameter	Value	Units
M			Fmsy-1/yr (F)	0.22	1/yr
A50-yr					
L50-cm					

Time series minima and maxima								
SSB R F TB Catch								
Minimum year					1987			
Maximum year					2006			
Time series minimum 388					388			
Time series maximum 1				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

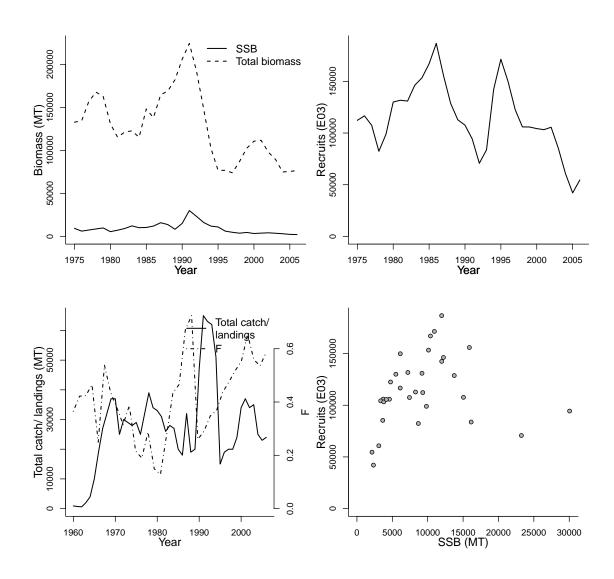
Area ID: multinational-NAFO-23KLMNO

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	IE tert	iary LME
9 - Newfoundlar	nd-Labr	ador She	lf na	na	
Parameter	Value	Units			
REC-AGE-yr M-1/T SSB-AGE-yr TB-AGE-yr F-AGE-yr M A50-yr L50-cm	1 0.2	yr 1/T	Reference Parameter F0.1-1/yr (F) Fmax-1/yr (F)	e points Value 0.14 0.25	Units 1/yr 1/yr

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1975	1975	1975	1975	1960		
Maximum year	2006	2006	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 (Redfish species) 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.

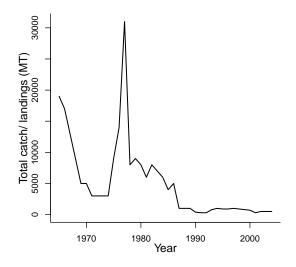
Detail	Value
Management body	NAFO
Assessment group	NAFO Scientific Council
Assessment authors	Siegstad, Helle
Assessment method	Unknown
Publication year	2005
Timeseries span	1965-2004
Document	NAFO-RED1-2005.pdf (pdf not in database)
Recorder	PREFONTAINE
Date entered	2008-07-29
Date last loaded	2009-03-17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

primary LME			se	condary LME	tertia	ry LME
18 - West Gre	enland S	Shelf	na		na	
Parameter	Value	Units	<u> </u>			
REC-AGE SSB-AGE-yr TB-AGE-yr F-AGE-yr M A50-yr L50-cm				Referer Parameter	ice poin Value	

Time series minima and maxima						
	CCD	D	E	тр	Catch	
	SSD	K	Г	ID	0000011	
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)

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 LMI	E tertiary LME
9 - Newfoundland-Labrador Shelf		na	na	
Parameter	Value	Units		
REC-AGE-yr F-AGE-yr-yr TB-AGE-yr A50-yr M-1/T SSB-AGE-yr M L50-cm	4 6-16 4+ 15 0.1	yr yr-yr yr yr 1/T	Reference Parameter Va	-

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

