Dear Coilin,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 37 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 Barents Sea capelin (Mallotus villosus)

Assessment ID:AFWG-CAPENOR-1965-2007-MINTO
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/362

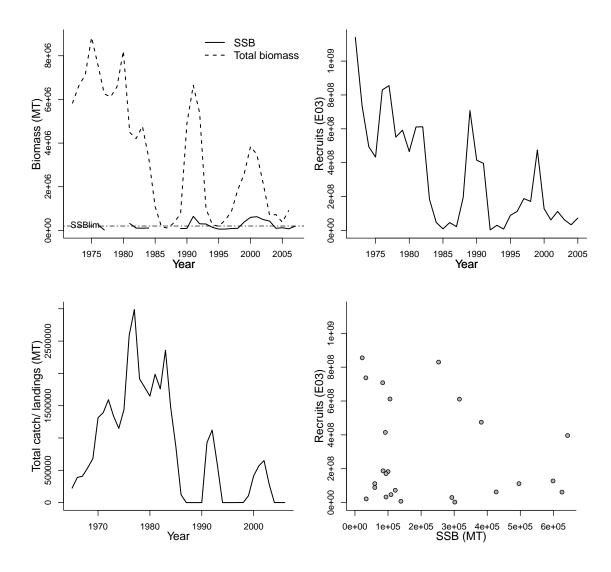
Area ID: multinational-ICES-I

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Spreadsheet assessment model used for
	Capelin
Publication year	2007
Timeseries span	1965-2007
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-08
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

	primary LME	se	condary LME	tertiary LME	•
	20 - Barents S	Sea n	ı	na	•
Parameter	Value	Units	-		
SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/T SSB-SEX-sex F-AGE-yr M A50-yr L50-cm	2+ 1 1+ AVAILABLE	yr yr yr 1/T	Parameter SSBlim-M7 MORATOR MORATOR MORATOR SSB ₂₀₀₇ /SS	-yr-yr 1986- -yr-yr 1993- -yr-yr 2004-	Units 0 MT 1991 yr-yr 1999 yr-yr

Tir	Time series minima and maxima							
	SSB R F TB Catch							
Minimum year	1973	1972		1972	1965			
Maximum year	2007	2005		2006	2006			
Time series minimum	22000	3000000		107000	0			
Time series maximum	643000	1140000000		8841000	2987000			
Units	MT	E03		MT	MT			



Assessment of North-East Arctic atlantic cod (Gadus morhua) Assessment ID:AFWG-CODCOASTNOR-1982-2006-MINTO

Assessment ID:AFWG-CODCOASTNOR-1982-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/363

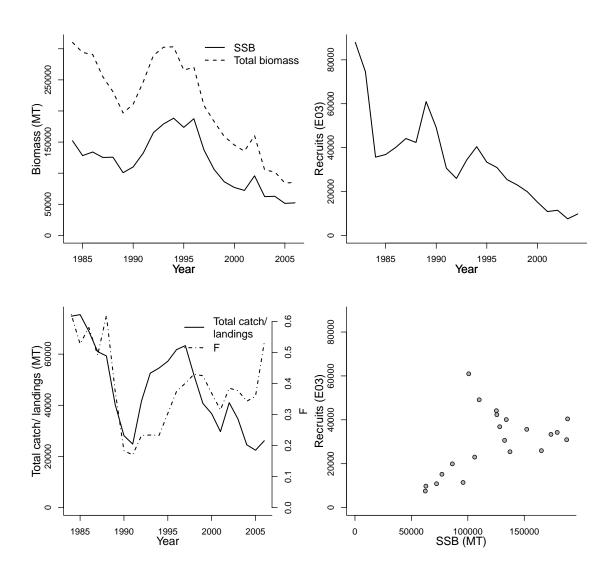
Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1982-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-03-24
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

primary LN	primary LME			tertiary L	ME
21 - Norwe	gian Sea	a 22 - I	North Sea	na	
Parameter	Value	Units	•		
A50-yr SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr M-1/T TB-AGE-yr SSB-SEX-sex M L50-cm	5 2+ 2 4-7 0.2 2+	yr yr yr yr-yr 1/T yr	Refer Paramete	rence poin r Value	ts Units

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1984	1982	1984	1984	1984		
Maximum year	2006	2004	2006	2006	2006		
Time series minimum	51445	7539	0.1699	84309	22432		
Time series maximum	188357	87938	0.6221	310230	75451		
Units	MT	E03	1/T	MT	MT		



Assessment of North-East Arctic atlantic cod (Gadus morhua) Assessment ID:AFWG-CODNEAR-1943-2006-MINTO

Assessment ID:AFWG-CODNEAR-1943-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/364

Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1943-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-02-15
Date last loaded	2010-07-18
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.

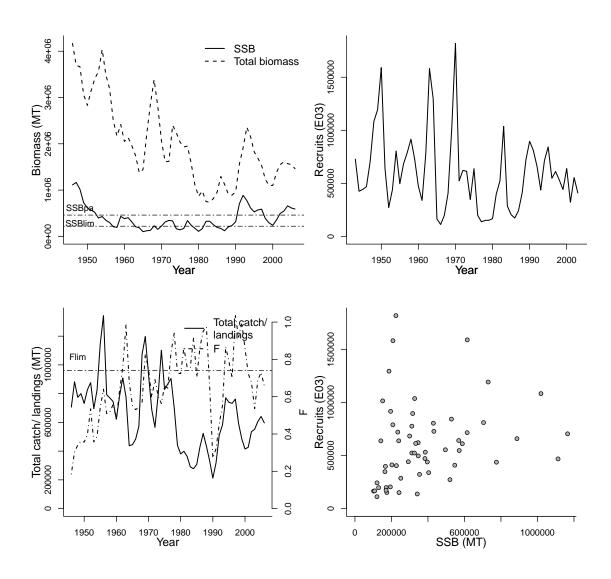
secondary LME

primary LME

tertiary LME

20 - Barents Sea 21 - Norwegian Sea na						
Parameter	Value	Units	Reference	points		
A50-yr	6.5	yr	Parameter	Value	Units	
SSB-AGE-yr	3+	yr	SSBlim-MT (SSB)	220000	MT	
SSB-SEX-sex	0	sex	SSBpa-MT (SSB)	460000	MT	
REC-AGE-yr	3	yr	F0.1-1/T	0.15	1/T	
F-AGE-yr-yr	5-10	yr-yr	Flim-1/T (F)	0.74	1/T	
M-1/T	0.2	1/T	Fpa-1/T (F)	0.4	1/T	
TB-AGE-yr	3+	yr	Fmax-1/T	0.28	1/T	
M			SSB_{2006}/SSB_{lim}	2.685		
L50-cm			F_{2006}/F_{lim}	0.889		

Time series minima and maxima								
	SSB R F TB Catch							
Minimum year	1946	1943	1946	1946	1946			
Maximum year	2006	2003	2006	2006	2006			
Time series minimum	102315	112039	0.1857	738675	212000			
Time series maximum	1165059	1818949	1.0347	4168882	1343068			
Units	MT	E03	1/T	MT	MT			



Assessment of North-East Arctic golden redfish (Sebastes norvegicus)

Assessment ID:AFWG-GOLDREDNEAR-1986-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/365

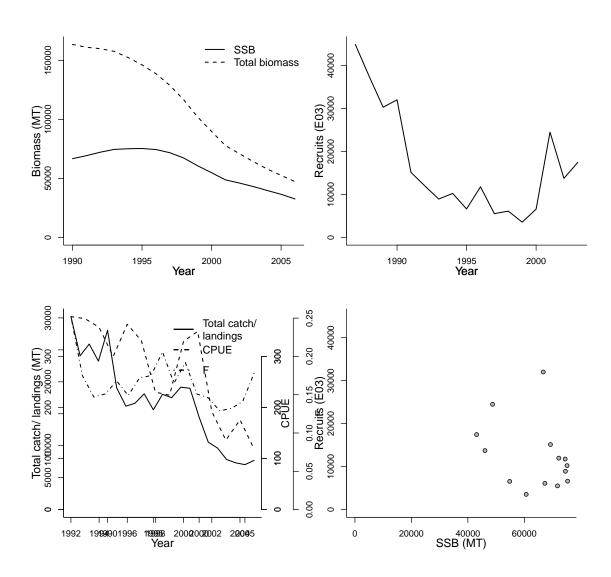
Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Globally Applicable area-Disaggregated
	General Ecosystem Toolbox - An
	ecosystem-based management tool
	used for assessment
Publication year	2007
Timeseries span	1986-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-07
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

prim	ary LME	sec	condary LME	tertiary LME	
20 -	Barents	Sea 21	- Norwegian Sea	na	
Parameter	Value	Units			
A50-yr	12	yr			
REC-AGE-yr	3	yr			
SSB-AGE-yr	4+	yr	Refer	ence points	
M-1/T	0.10	1/T	Parameter	Value	Units
TB-AGE-yr F-AGE-yr-yr	3+ 12-19	yr yr-yr	MORATOR-yr-y	r 2004-2007	yr-yr
SSB-SEX-sex		3 3			
M					
L50-cm					

Time series minima and maxima								
SSB R F TB Catch								
Minimum year 1990 1987 1990 1990 1986								
Maximum year	2006	2003	2006	2006	2006			
Time series minimum	· · · · · · · · · · · · · · · · · · ·							
Time series maximum 75317 44912 0.252 163536 30203								
Units	MT	E03	1/T	MT	MT			



Assessment of North-East Arctic haddock (Molanogrammus goglefinus)

(Melanogrammus aeglefinus)
Assessment ID:AFWG-HADNEAR-1947-2006-MINTO

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/366

Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1947-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-03-31
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

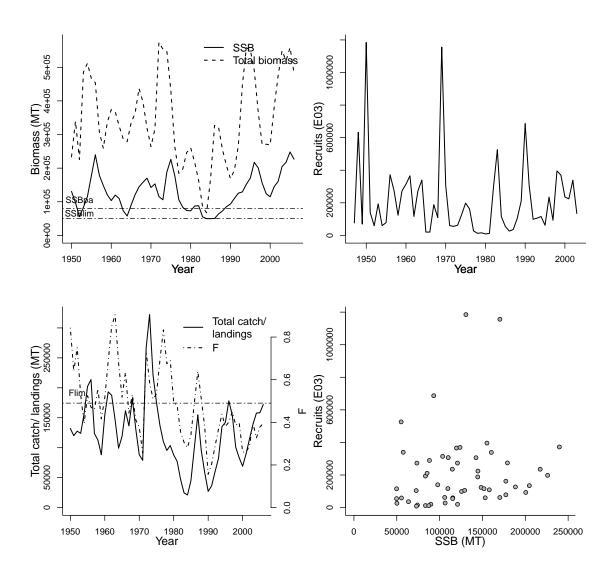
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

tertiary LME

primary LME secondary LME

	20 - Barents Sea 2	l - Norwe	egian Sea na		
Parameter	Value	Units			
A50-yr	6	vr	Reference	points	
SSB-AGE-yr	3+	yr yr	Parameter	Value	Units
REC-AGE-yr	3	yr	SSBlim-MT (SSB)	50000	MT
F-AGE-yr-yr	4-7	yr-yr	SSBpa-MT (SSB)	80000	MT
M-1/T	0.2+cod mortality	1/T	Flim-1/T (F)	0.49	1/T
TB-AGE-yr	3+	yr	Fpa-1/T (F)	0.35	1/T
SSB-SEX-sex		•	SSB_{2006}/SSB_{lim}	4.533	
M			F_{2006}/F_{lim}	0.806	
L50-cm			·		

Time series minima and maxima									
SSB R F TB Catch									
Minimum year 1950 1947 1950 1950 1950									
Maximum year									
Time series minimum	Time series minimum 49753 8961 0.1562 67367 20945								
Time series maximum 248181 1184843 0.9053 573954 322226									
Units	MT	E03	1/T	MT	MT				



Assessment of North-East Arctic pollock (*Pollachius virens*)

Assessment ID:AFWG-POLLNEAR-1957-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/367

Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1957-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-07
Date last loaded	2010-07-18
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.

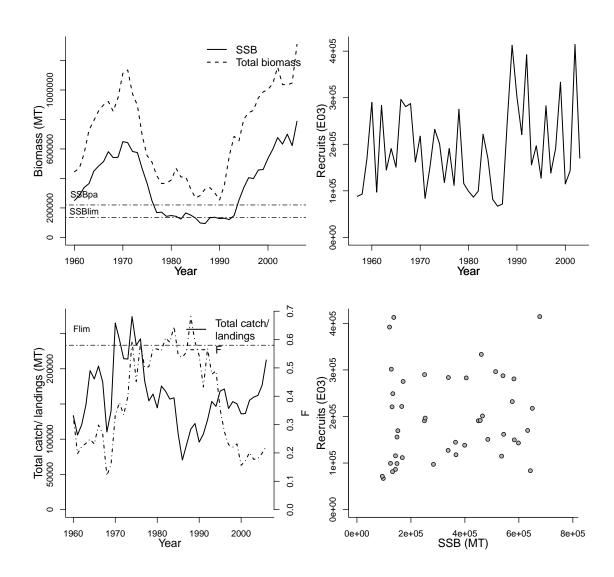
secondary LME

tertiary LME

primary LME

20 - Ba	20 - Barents Sea 21 - Norwegian Sea na					
Parameter	Value	Units	P			
A50-yr	5	yr	Parameter	Value	Units	
SSB-AGE-yr	4+	yr	SSBlim-MT (SSB)	136000	MT	
REC-AGE-yr	3	yr	SSBpa-MT (SSB)	220000	MT	
F-AGE-yr-yr	4-7	yr-yr	F0.1-1/T	0.14	1/T	
M-1/T	0.2	1/T	Fmax-1/T	0.32	1/T	
TB-AGE-yr	3+	yr	Flim-1/T (F)	0.58	1/T	
SSB-SEX-sex			Fpa-1/T (F)	0.35	1/T	
M			SSB_{2006}/SSB_{lim}	5.793		
L50-cm			F_{2006}/F_{lim}	0.386		

Time series minima and maxima									
SSB R F TB Catch									
Minimum year 1960 1957 1960 1960 1960									
Maximum year	· ·								
Time series minimum	Time series minimum 93950 66951 0.1193 253730 70458								
Time series maximum 787915 414480 0.681 1309499 274121									
Units	MT	E03	1/T	MT	MT				



Assessment of North-East Arctic deepwater redfish (Sebastes mentella)

Assessment ID:AFWG-REDDEEPI-II-1985-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/368

Area ID: multinational-ICES-I-II

General assessment details.

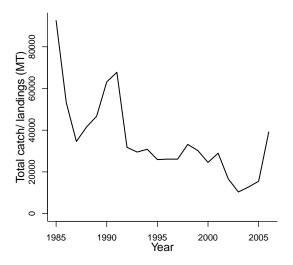
Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific
	survey data
Publication year	2007
Timeseries span	1985-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-07
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

primary	primary LME sec		ry LME	tertiary LME	
20 - Bare	ents Sea	21 - Nor	wegian Sea	na	
Parameter	Value	Units			
A50-yr REC-AGE	13	yr			
SSB-AGE-y			Refere	nce poin	ts
SSB-SEX-se	ex		Parameter	Value	Units
TB-AGE-yr F-AGE-yr					
M M					
L50-cm					

Time series minima and maxima							
SSB R F TB Catch							
Minimum year					1985		
Maximum year 2000							
Time series minimum					10361		
Time series maximum					92552		
Units					MT		

No biomass data available

No recruitment data available



No SSB-recruit data available

Assessment of 22-24-IIIa herring (Clupea

harengus)

Assessment ID:HAWG-HERR2224IIIa-1991-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/369

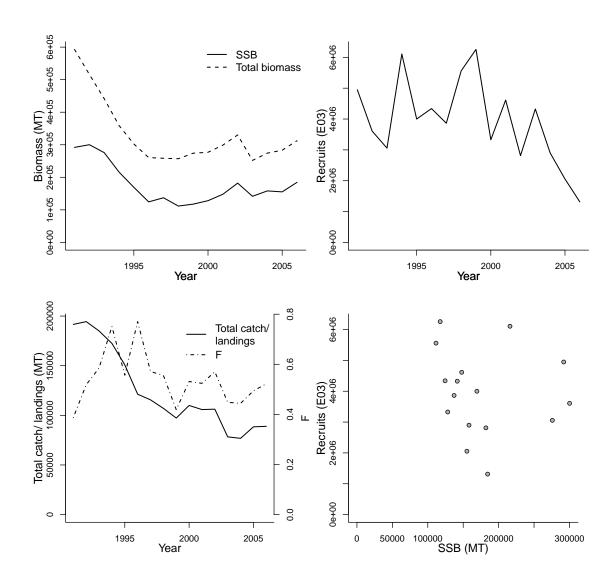
Area ID: multinational-ICES-22-24-IIIa

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for
	the Area South of 62N
Assessment authors	Anonymous
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1991-2006
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

prima	ry LME	secondary	LME	tertia	ry LME	-
22 - N	orth Sea	23 - Baltic	Sea	na		-
Parameter	Value	Units				
A50-yr	2-3	yr				
SSB-AGE-yr	2+ 0	yr		Referei	nce poin	ts
REC-AGE-yr TB-AGE-yr	0+	yr vr	Parai	meter	Value	Units
F-AGE-yr-yr	3-6	yr-yr	F0.1-	·1/T	0.22	1/T
M-1/T	0.2 for 2+	· 1/T	Fmax	κ-1/T	0.53	1/T
SSB-SEX-sex						
M						
L50-cm						

Time series minima and maxima							
SSB R F TB Catch							
Minimum year 1991 1991 1991 19							
Maximum year 2006 2006 2006 2006 2006							
Time series minimum 111615 1313450 0.3875 251938 76815							
Time series maximum	0.7704	592997	194411				
Units	MT	E03	1/yr	MT	MT		



Assessment of North Sea herring (Clupea

harengus)

Assessment ID:HAWG-HERRNS-1960-2007-MINTO
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/370

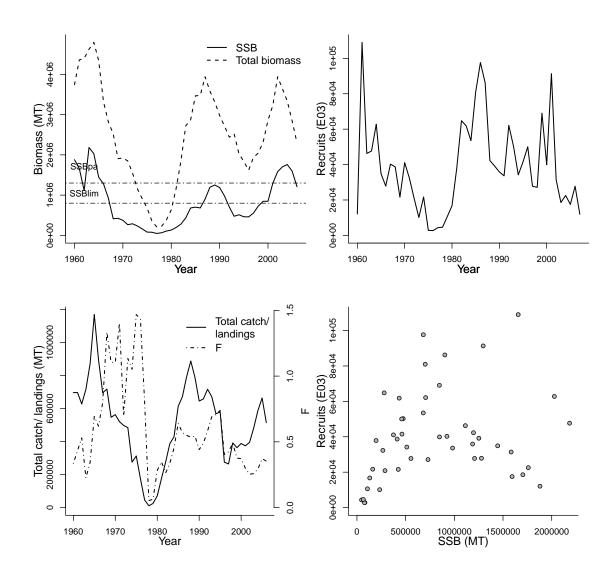
Area ID: multinational-ICES-IV

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for
	the Area South of 62N
Assessment authors	Anonymous
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1960-2007
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

	primary LME	secor	ndary LME tertiary	LME	
	22 - North Se	ea na	na		
Parameter	Value	Units			
A50-yr	2 2+	yr	Reference	-	Limita
SSB-AGE-yr REC-AGE-yr		yr yr	Parameter FO 1 1 /T	Value	Units
TB-AGE-yr F-AGE-yr-yr	0+ 2-6	yr	F0.1-1/T Fpa-1/T (F)	$0.22 \\ 0.25$	1/T 1/T
M-1/T SSB-SEX-se	0.1 for 4+	yr-yr 1/T	SSBpa-MT (SSB) SSBlim-MT (SSB)	1300000 800000	MT MT
M	Δ		$\frac{SSB_{2006}/SSB_{lim}}{}$	1.510	
L50-cm					

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1960	1960	1960	1960	1960		
Maximum year 2006 2007 2006 2006 2006							
Time series minimum 47975 2732.61 0.053 211261 11000							
Time series maximum	2183501	109000	1.4676	4792818	1168800		
Units	MT	E03	1/T	MT	MT		



Assessment of West of Scotland herring (Clupea

harengus)
Assessment ID:HAWG-HERRVIa-1957-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/371

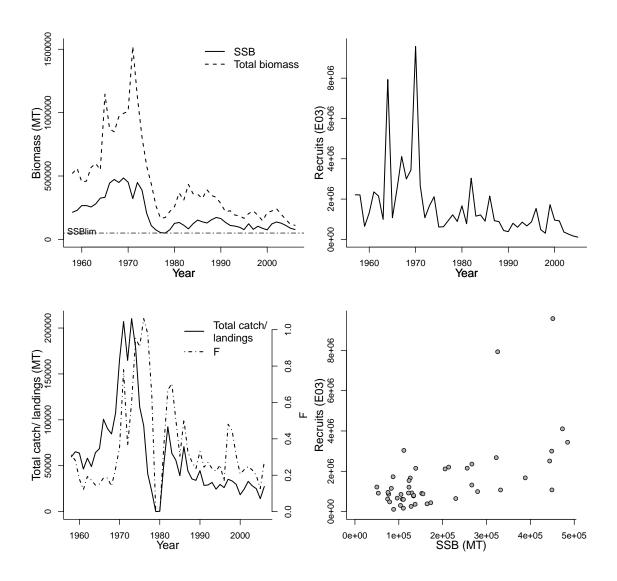
Area ID: multinational-ICES-VIa

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for
	the Area South of 62N
Assessment authors	Anonymous
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1957-2006
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

primai	y LME		se	condary LME	terti	ary LME	
24 - C	eltic-Biscay S	Shelf	na	L	na		_
Parameter	Value	Unit	s s				
A50-yr	1-2	yr					
SSB-AGE-yr	2+	yr		Refer	rence	points	
REC-AGE-yr	1	yr		Parameter		Value	Units
TB-AGE-yr F-AGE-yr-yr M-1/T SSB-SEX-sex M L50-cm	1+ 3-6 0.1 for 4+	yr yr-yr 1/T	r 	F0.1-1/T SSBlim-MT (S SB_{2006}/SSB_{l}	-	0.17 50000 1.556	1/T MT

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1958	1957	1958	1958	1958			
Maximum year 2006 2005 2006 2006 2006								
Time series minimum 50015 112240 0.0004 111054 60								
Time series maximum	484835	9575740	1.0609	1522522	210270			
Units	MT	E03	1/T	MT	MT			



Assessment of VIa, VIIb and VIIc herring (Clupea

harengus)

Assessment ID:HAWG-HERRVIaVIIbc-1969-2000-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/372

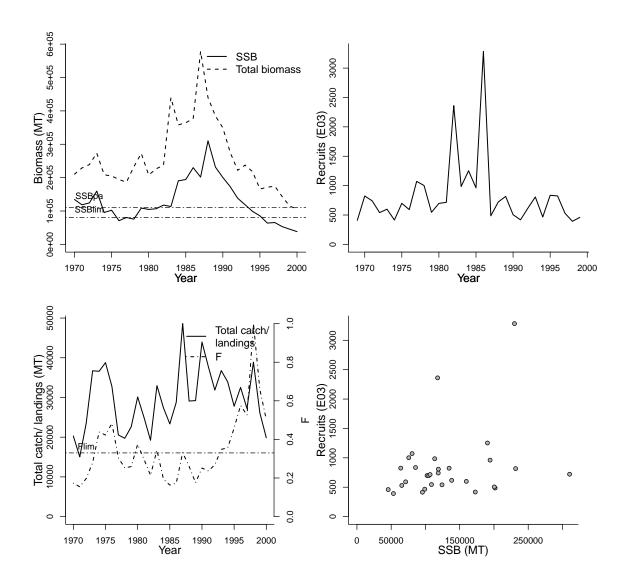
Area ID: multinational-ICES-VIa-VIIb-VIIc

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for
	the Area South of 62N
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1969-2000
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

primary	LME		secondary LME	tertiary LMI	Ξ
24 - Celtic-Biscay Shelf		na	na		
Parameter	Value	Units	Reference	ce points	
A50-yr	1	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr TB-AGE-yr F-AGE-yr-yr SSB-SEX-sex M L50-cm	1+ 1 1+ 3-6	yr yr yr yr-yr	SSBlim-MT (SSB) SSBpa-MT (SSB) Flim-1/T (F) Fpa-1/T (F) SSB_{2000}/SSB_{lim} F_{2000}/F_{lim}	81000 110000 0.33 0.22 0.472 1.522	MT MT 1/T 1/T

Time series minima and maxima							
SSB R F TB Catch							
Minimum year 1970 1969 1970 1970 197							
Maximum year 2000 1999 2000 2000 2000							
Time series minimum 38246 392.621 0.1545 105417 15044							
Time series maximum 310384 3284.004 1.0001 578250 4860							
Units	MT	E03	1/T	MT	MT		



Assessment of North Sea sprat (Sprattus sprattus) Assessment ID:HAWG-SPRATNS-1995-2007-MINTO

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/373

Area ID: multinational-ICES-IV

General assessment details.

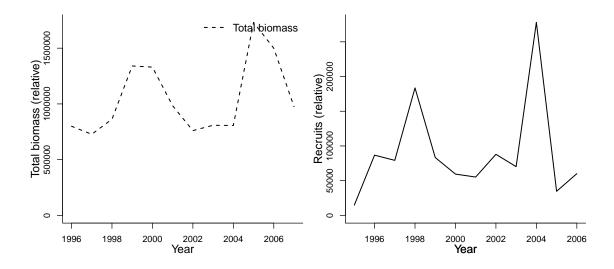
Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for
	the Area South of 62N
Assessment authors	Anonymous
Assessment method	Catch-Survey Analysis (like a state space
	approach)
Publication year	2007
Timeseries span	1995-2007
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-15
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

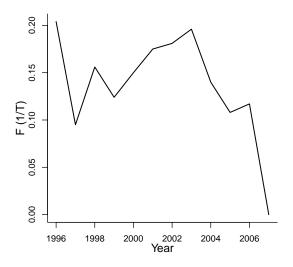
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

		Parameter	Value	Units
		SSB-AGE-yr REC-AGE-yr	1+ 1	yr yr
secondary LME	tertiary LME	TB-AGE-yr M-1/T	1+ 0.75	yr 1/T
na	na	A50-yr	0-1	yr
		M		
	•		secondary LME tertiary LME na na A50-yr SSB-AGE-yr TB-AGE-yr M-1/T A50-yr SSB-SEX-sex F-AGE-yr	SSB-AGE-yr 1+ REC-AGE-yr 1 TB-AGE-yr 1 TB-AGE-yr 1+ M-1/T 0.75 1 M-1/T 0.75 M-1/T 0.75 SSB-SEX-sex F-AGE-yr M M M M M M M M M

Reference points Parameter Value Units

Time series minima and maxima								
SSB R F TB Catch								
Minimum year		1995	1996	1996				
Maximum year								
Time series minimum		14821.9	0	727854				
Time series maximum		277968.1	0.204	1731263				
Units		relative	1/T	relative				





No SSB-recruit data available

Assessment of Iceland Grounds capelin (*Mallotus villosus*)

Assessment ID:NWWG-CAPEICE-1977-2007-MINTO
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/374

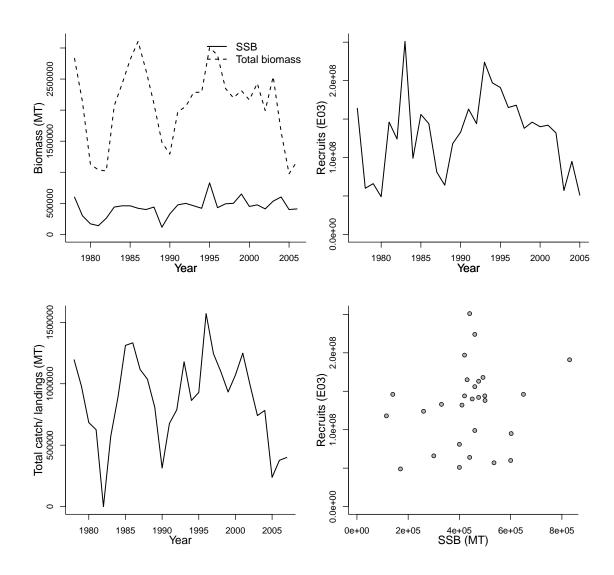
Area ID: multinational-ICES-Va

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	acoustic surveys
Publication year	2007
Timeseries span	1977-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-10
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

primary L	primary LME		dary LME	tertiary LI	ME
59 - Icelai	59 - Iceland Shelf na			na	
Parameter	Value	Units			
A50-yr SSB-AGE-yr REC-AGE-yr	2 2+ 1	yr yr yr	Refe	erence poin	ts
TB-AGE-yr SSB-SEX-sex F-AGE-yr M L50-cm	1+	yr		er Value	Units

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1978	1977		1978	1978		
Maximum year	· ·						
Time series minimum	115000	49000000		975000	0		
Time series maximum	830000	251000000		3106000	1571000		
Units	MT	E03		MT	MT		



Assessment of Faroe Plateau atlantic cod (*Gadus morhua*) Assessment ID:NWWG-CODFAPL-1959-2006-MINTO

Assessment ID:NWWG-CODFAPL-1959-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/375

Area ID: multinational-ICES-Vb1

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1959-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-08
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

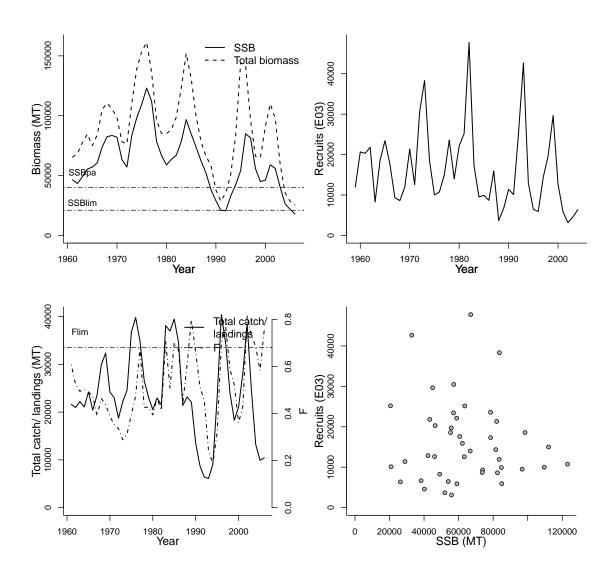
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME

secondary LME tertiary LME

60 - Fa	aroe Pla	teau na	na		_
Parameter A50-yr SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr TB-AGE-yr SSB-SEX-sex M L50-cm	Value 3 2+ 2 3-7 1+	Units yr yr yr yr yr yr-yr yr	Reference Parameter SSBlim-MT (SSB) SSBpa-MT (SSB) F0.1-1/yr (F) Fmax-1/T Flim-1/T (F) Fpa-1/T (F) SSB_{2006}/SSB_{lim} F_{2006}/F_{lim}	points Value 21000 40000 0.12 0.25 0.68 0.35 0.851 1.115	Units MT MT 1/yr 1/T 1/T
			1 2006 / 1 lim	1.110	

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1961	1959	1961	1961	1961		
Maximum year	Maximum year 2006 2004 2006 2006 2006						
Time series minimum 17878 3128 0.1877 25436 6107							
Time series maximum 123077 47753 0.8206 161260 40422							
Units	MT	E03	1/T	MT	MT		



Assessment of Iceland Grounds atlantic cod (Gadus morhua) Assessment ID:NWWG-CODICE-1952-2006-MINTO

Assessment ID:NWWG-CODICE-1952-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/376

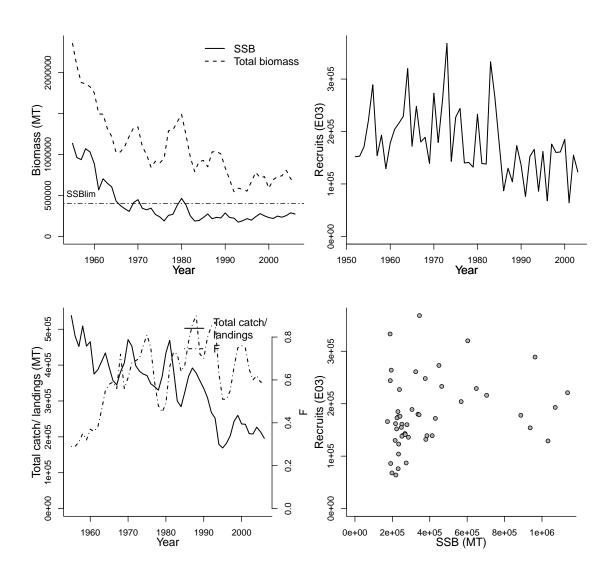
Area ID: multinational-ICES-Va

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1952-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-10
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

prima	primary LME		sec	condary LME ter	tiary LME	
59 -]	59 - Iceland Shelf		na	na		
Parameter	Value	Units	<u> </u>			
A50-yr SSB-AGE-yr REC-AGE-yr	6.5 3+ 3	yr yr yr	•	Referer Parameter	ce points Value	Units
TB-AGE-yr M-1/T F-AGE-yr-yr SSB-SEX-sex	4+ 0.25 5-10	yr 1/T yr-yr	•	SSBlim-MT (SSE F0.1-1/T Fmax-1/T SSB_{2006}/SSB_{lim}	0.15 0.34 0.682	MT 1/T 1/T
M L50-cm						

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1955	1952	1955	1955	1955		
Maximum year	· · · · · · · · · · · · · · · · · · ·						
Time series minimum	174000	64000	0.29	546000	169000		
Time series maximum	1137000	368000	0.9	2357000	538000		
Units	MT	E03	1/T	MT	MT		



Assessment of Faroe Plateau haddock

(Melanogrammus aeglefinus) Assessment ID:NWWG-HADFAPL-1955-2006-MINTO

Assessment ID:NWWG-HADFAPL-1955-2006-MINTO
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/377

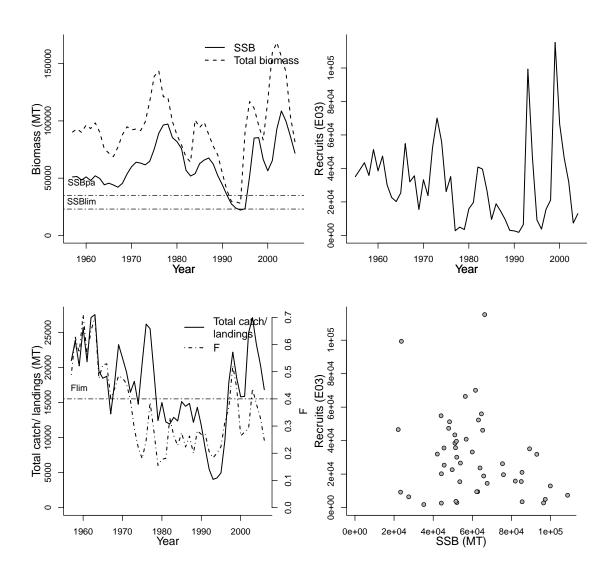
Area ID: multinational-ICES-Vb1

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1955-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-08
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

prima	ry LME	se	econdary LME terti	ary LME	_
60 - F	`aroe Pla	teau na	a na		_
Parameter	Value	Units	Reference	-	
A50-yr	3	yr	Parameter	Value	Units
SSB-AGE-yr	2+	yr	SSBlim-MT (SSB)	23000	MT
REC-AGE-yr	2	yr	SSBpa-MT (SSB)	35000	MT
F-AGE-yr-yr	3-7	yr-yr	F0.1-1/T	0.15	1/T
TB-AGE-yr	0+	yr	Fmax-1/T	0.61	1/T
M-1/T	0.2	1/T	Flim-1/T (F)	0.4	1/T
SSB-SEX-sex			Fpa-1/T (F)	0.25	1/T
M			SSB_{2006}/SSB_{lim}	3.121	
L50-cm			F_{2006}/F_{lim}	0.619	

Time series minima and maxima						
	SSB	R	F	TB	Catch	
Minimum year	1957	1955	1957	1957	1957	
Maximum year	2006	2004	2006	2006	2006	
Time series minimum	22125	1826	0.155	27998	4026	
Time series maximum	108674	115282	0.7101	168570	27571	
Units	MT	E03	1/T	MT	MT	



Assessment of Iceland Grounds haddock

(Melanogrammus aeglefinus)
Assessment ID:NWWG-HADICE-1977-2007-MINTO

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/378

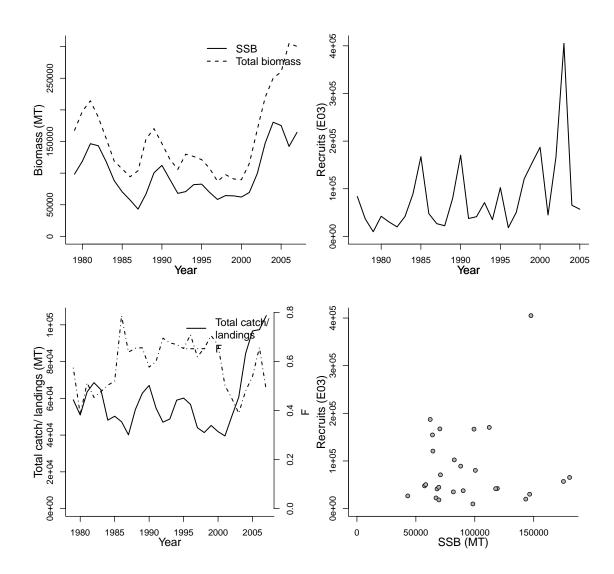
Area ID: multinational-ICES-Va

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1977-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-10
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

primary I	primary LME secon		ndary LME tertiary LME		Æ
59 - Iceland Shelf na			na		
Parameter	Value	Units			
A50-yr SSB-AGE-yr	4 1+	yr yr	Refere	ence point	ts
REC-AGE-yr	2	yr	Parameter	Value	Units
TB-AGE-yr M-1/T F-AGE-yr-yr SSB-SEX-sex	3+ 0.2 4-7	yr 1/T yr-yr	F0.1-1/T Fmax-1/T Fpa-1/T (F)	0.16 0.44 0.47	1/T 1/T 1/T
M L50-cm					

Time series minima and maxima						
	SSB	R	F	TB	Catch	
Minimum year	1979	1977	1979	1979	1979	
Maximum year	2007	2005	2007	2007	2007	
Time series minimum	43116	9758	0.384	86966	39530	
Time series maximum	180435	405094	0.787	305098	105012	
Units	MT	E03	1/T	MT	MT	



Assessment of Faroe Plateau pollock (*Pollachius virens*)

Assessment ID:NWWG-POLLFAPL-1958-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/379

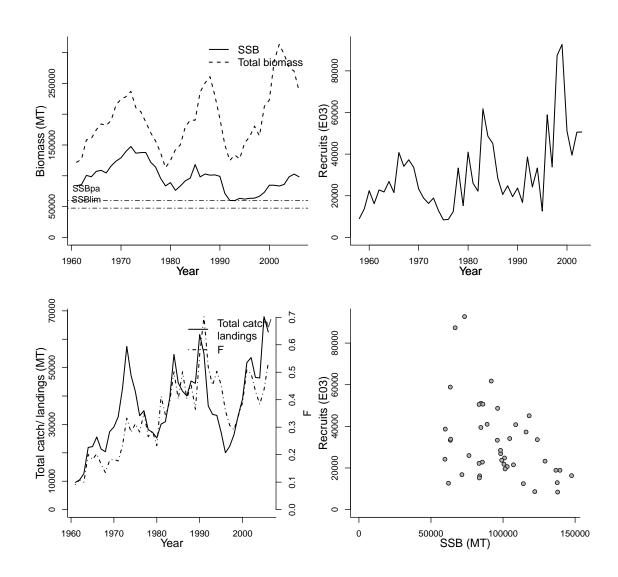
Area ID: multinational-ICES-Vb1

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anonymous
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1958-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-09
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-08

prima	ry LME	S	econdary LME to	ertiary LME	-
60 - F	aroe Pla	teau n	a n	a	-
Parameter	Value	Units			
450 xm	5	3792	Refere	nce points	
A50-yr SSB-AGE-yr	3+	yr	Parameter	Value	Units
REC-AGE-yr	3	yr yr	SSBlim-MT (SS	B) 47500	MT
F-AGE-yr-yr	4-8	yr-yr	SSBpa-MT (SSI	3) 60000	MT
TB-AGE-yr	3+	yr	F0.1-1/T	0.14	1/T
M-1/T	0.2	1/T	Fmax-1/T	0.45	1/T
SSB-SEX-sex			Fpa-1/T (F)	0.5	1/T
M			SSB_{2006}/SSB_{lim}	2.072	-
L50-cm					

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1961	1958	1961	1961	1961		
Maximum year 2006 2003 2006 2006 2006							
Time series minimum	59693	8415	0.0911	113051	9592		
Time series maximum	147569	92717	0.7025	313275	67972		
Units	MT	E03	1/T	MT	MT		



Assessment of Kattegat and Skagerrak atlantic cod (*Gadus morhua*) Assessment ID:WGBFAS-CODKAT-1970-2006-MINTO

Assessment ID:WGBFAS-CODKAT-1970-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/380

Area ID: multinational-ICES-IIIa

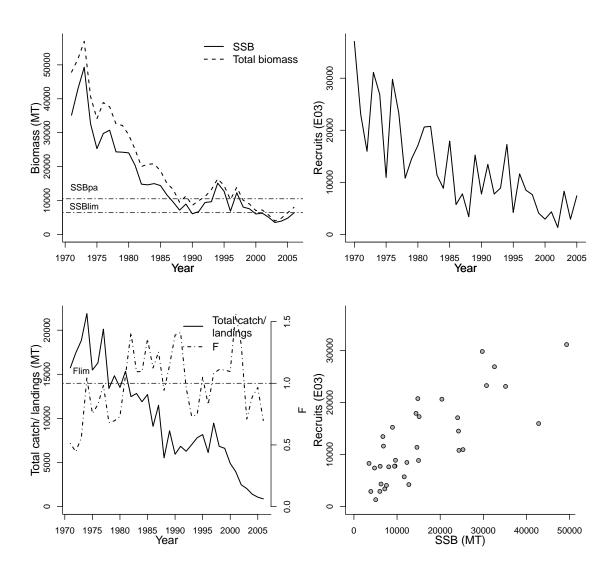
General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Baltic Fisheries Assessment Working				
	Group				
Assessment authors	Anonymous				
Assessment method	The ADAPT approach with year effects in				
	a catch multiplier				
Publication year	2007				
Timeseries span	1970-2006				
Document	ICES-WGBFAS-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-15				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

			Parameter	Value	Units
			A50-yr	2	yr
			SSB-AGE-yr	1+	yr
primary LME	secondary LME	tertiary LME	REC-AGE-yr	1	yr
22 - North Sea	na	na	TB-AGE-yr F-AGE-yr-yr	1+ 3-5	yr yr-yr
22 North Sca	Tita .	na —	M-1/T SSB-SEX-sex M L50-cm	0.2	1/T

Reference points						
Parameter	Value	Units				
Flim-1/T (F)	1	1/T				
Fpa-1/T (F)	0.6	1/T				
SSBpa-MT (SSB)	10500	MT				
SSBlim-MT (SSB)	6400	MT				
SSB_{2006}/SSB_{lim}	0.992					
F_{2006}/F_{lim}	0.698					

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1971	1970	1971	1971	1971			
Maximum year 2006 2005 2006 2006 2006								
Time series minimum 3500 1330 0.4454 3952 876								
Time series maximum	49301	37064	1.565	56919	21880			
Units MT E03 1/T MT MT								



Assessment of Irish Sea atlantic cod (Gadus morhua)

Assessment ID:WGNSDS-CODIS-1968-2006-MINTO
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/381

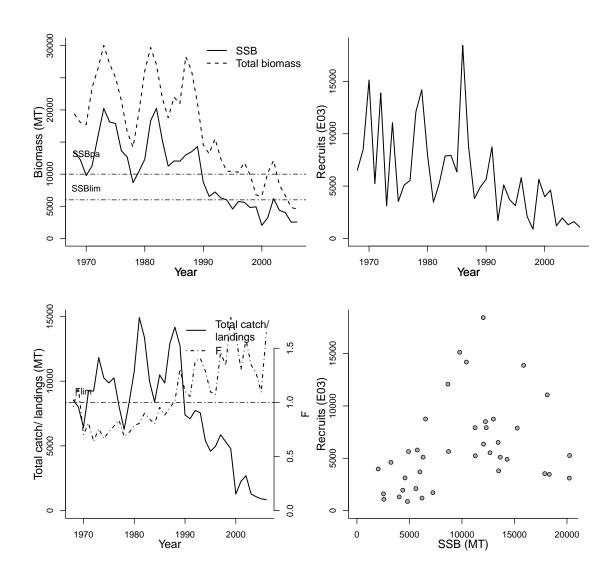
Area ID: multinational-ICES-VIIa

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of				
	Northern Shelf Demersal Stocks				
Assessment authors	Anonymous				
Assessment method	The ADAPT approach with year effects in				
	a catch multiplier				
Publication year	2007				
Timeseries span	1968-2006				
Document	ICES-WGNSDS-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-14				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

primary	primary LME		secondary LME	tertiary LI	ME
24 - Celt	tic-Bisca	y Shelf	na	na	
Parameter	Value	Units	Referen	nce points	
A50-yr	2	yr	Parameter	Value	Units
SSB-AGE-yr	2+	yr	SSBlim-MT (SSI	B) 6000	MT
REC-AGE-yr	0	yr	SSBpa-MT (SSB	3) 10000	MT
TB-AGE-yr	0+	yr	Fpa-1/T (F)	0.72	1/T
M-1/T	0.2	1/T	Fmax-1/T	0.32	1/T
F-AGE-yr-yr	2-4	yr-yr	Flim-1/T (F)	1	1/T
SSB-SEX-sex			F0.1-1/T	0.18	1/T
M			SSB_{2006}/SSB_{lim}	0.427	
L50-cm			F_{2006}/F_{lim}	1.644	

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1968	1968	1968	1968	1968		
Maximum year							
Time series minimum 2025 875 0.6386 4537 838							
Time series maximum	20249	18442	1.7828	30044	14907		
Units	MT	E03	1/T	MT	MT		



Assessment of West of Scotland atlantic cod (Gadus morhua) Assessment ID:WGNSDS-CODVIa-1977-2006-MINTO

Assessment ID:WGNSDS-CODVIa-1977-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/382

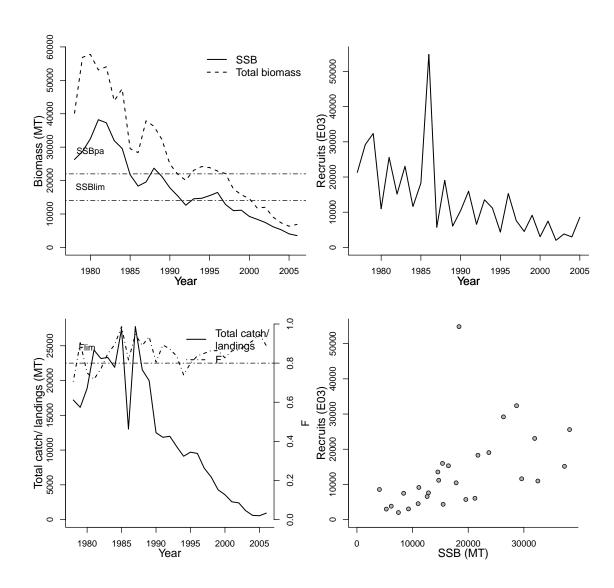
Area ID: multinational-ICES-VIa

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks			
Assessment authors	Anon			
Assessment method	State-space catch at age time series analysis			
Publication year	2007			
Timeseries span	1977-2006			
Document	ICES-WGNSDS-2007.pdf (pdf in database)			
Recorder	MINTO			
Date entered	2008-04-14			
Date last loaded	2010-07-18			
QA/QC complete	YES			
Date approved	2009-06-10			

primary	LME		secondary LME	tertiary LM	E.
24 - Celt	24 - Celtic-Biscay Shelf		na	na	
Parameter A50-yr SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr-yr SSB-SEX-sex M L50-cm	Value 2 2+ 1 1+ 0.2 2-5	Units yr yr yr yr yr yr yr yr	Reference Parameter SSBlim-MT (SSB) SSBpa-MT (SSB) Fpa-1/T (F) Fmax-1/T Flim-1/T (F) SSB ₂₀₀₆ /SSB _{lim} F ₂₀₀₆ /F _{lim}	•	Units MT MT 1/T 1/T 1/T

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1978	1977	1978	1978	1978		
Maximum year	2006	2005	2006	2006	2006		
Time series minimum	3530.6	2007.4	0.7072	6332.3	552		
Time series maximum	38214.9	54850.9	0.9867	57758.8	27758.1		
Units	MT	E03	1/T	MT	MT		



Assessment of Irish Sea haddock

(Melanogrammus aeglefinus) Assessment ID:WGNSDS-HADIS-1972-2006-MINTO

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/383

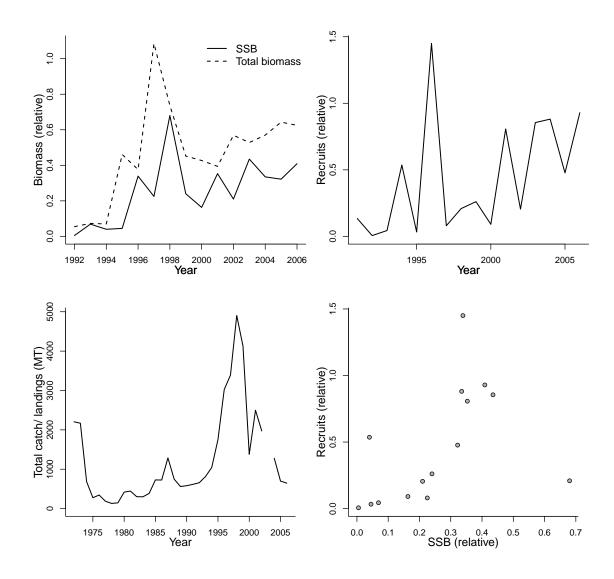
Area ID: multinational-ICES-VIIa

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of				
	Northern Shelf Demersal Stocks				
Assessment authors	Anonymous				
Assessment method	Survey based stock assessment method				
Publication year	2007				
Timeseries span	1972-2006				
Document	ICES-WGNSDS-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-14				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

primary LM	E	sec	ondary LME	tertiary	LME
24 - Celtic-Biscay Shelf n				na	
Parameter	Value	Units			_
A50-yr SSB-AGE-yr REC-AGE-yr M-1/T	2 2+ 0 0.2	yr yr yr 1/T	Referer Parameter	nce point Value	s Units
SSB-SEX-sex TB-AGE-yr F-AGE-yr M L50-cm	0.2	1/1	Fpa-1/T (F) Fmax-1/T		1/T 1/T

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1992	1991		1992	1972		
Maximum year	2006	2006		2006	2006		
Time series minimum	0.005	0.006		0.055	131		
Time series maximum	0.68	1.45		1.086	4902		
Units	relative	relative		relative	MT		



Assessment of West of Scotland haddock

(Melanogrammus aeglefinus) Assessment ID:WGNSDS-HADVIa-1977-2006-MINTO

Assessment ID:WGNSDS-HADVIa-1977-2006-MINTO
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/384

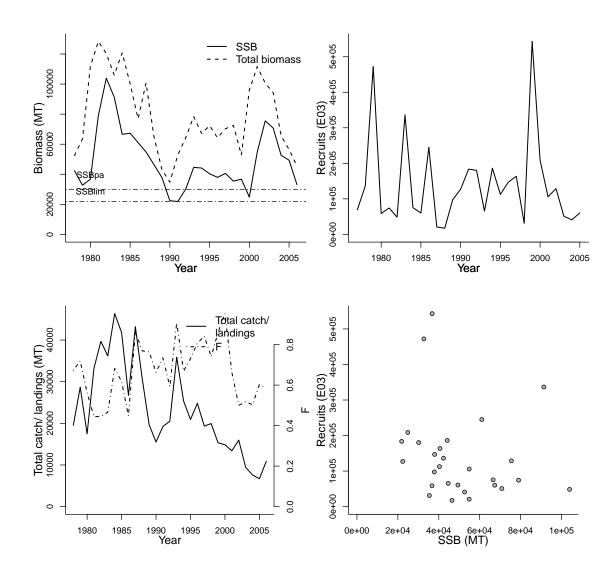
Area ID: multinational-ICES-VIa

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of				
	Northern Shelf Demersal Stocks				
Assessment authors	Anon				
Assessment method	State-space catch at age time series anal-				
	ysis				
Publication year	2007				
Timeseries span	1977-2006				
Document	ICES-WGNSDS-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-14				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

primary	primary LME		secondary LME	tertiary LM	ΙE
24 - Celt	24 - Celtic-Biscay Shelf		na	na	
Parameter	Value	Units			
A50-yr	2	yr	Referen		
SSB-AGE-yr	2+	vr	Parameter	Value	Units
REC-AGE-yr	1	yr	SSBlim-MT (SSB) 22000	MT
TB-AGE-yr	1+	yr	SSBpa-MT (SSB)	30000	MT
M-1/T	0.2	1/T	Fpa-1/T (F)	0.5	1/T
F-AGE-yr-yr	2-6	yr-yr	F0.1-1/T	0.19	1/T
SSB-SEX-sex			Fmax-1/T	0.21	1/T
M			SSB_{2006}/SSB_{lim}	1.501	
L50-cm					

Time series minima and maxima						
SSB R F TB Catch						
Minimum year	1978	1977	1978	1978	1978	
Maximum year 2006 2005 2006 2006 2006						
Time series minimum	21880	17434	0.444	34739	6694	
Time series maximum	103933	543159	0.953	128403	46355	
Units	MT	E03	1/T	MT	MT	



Assessment of Irish Sea european plaice

(Pleuronectes platessa)
Assessment ID:WGNSDS-PLAICIS-1962-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/385

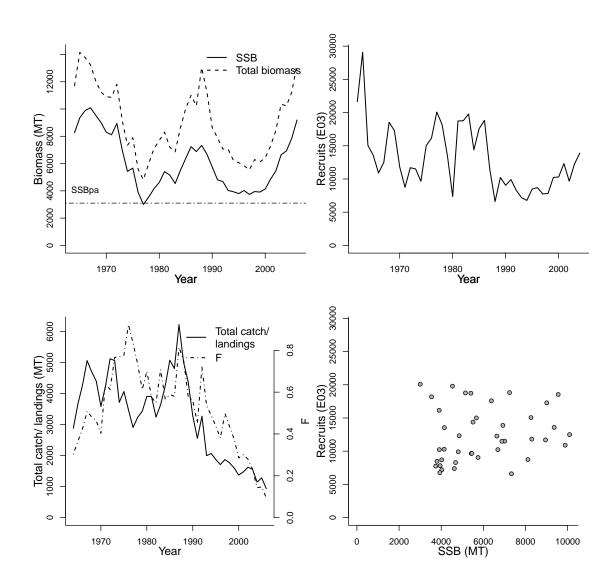
Area ID: multinational-ICES-VIIa

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of				
	Northern Shelf Demersal Stocks				
Assessment authors	Anonymous				
Assessment method	Integrated Catch-at-age Analysis				
Publication year	2007				
Timeseries span	1962-2006				
Document	ICES-WGNSDS-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-15				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

primary I	primary LME		secondary LME t	secondary LME tertiary LMF	
24 - Celtic-Biscay Shelf		na r	ıa		
Parameter	Value	Units	_		
A50-yr SSB-AGE-yr REC-AGE-yr	3 2+ 2	yr yr yr	Referenc Parameter	e points Value	Units
TB-AGE-yr F-AGE-yr-yr M-1/T SSB-SEX-sex	2+ 3-6 0.12	yr yr-yr 1/T	Fmax-1/T F0.1-1/T Fpa-1/T (F) SSBpa-MT (SSB)	0.36 0.13 0.45 3100	1/T 1/T 1/T MT
M L50-cm					

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1964	1962	1964	1964	1964		
Maximum year 2006 2004 2006 2000					2006		
Time series minimum	6600	0.0941	4819	932			
Time series maximum	10092	29060	0.9231	14152	6220		
Units	MT	E03	1/T	MT	MT		



Assessment of Irish Sea common european sole (Solea vulgaris)

Assessment ID:WGNSDS-SOLEIS-1968-2006-MINTO
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/386

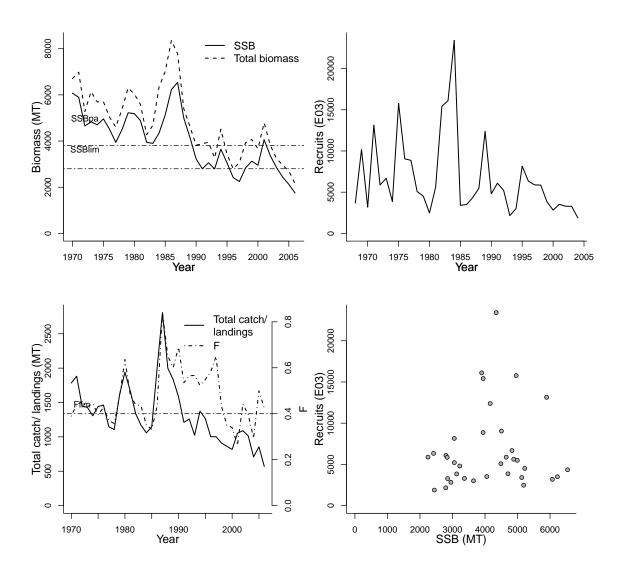
Area ID: multinational-ICES-VIIa

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of				
	Northern Shelf Demersal Stocks				
Assessment authors	Anonymous				
Assessment method	Extended Survivor Analysis				
Publication year	2007				
Timeseries span	1968-2006				
Document	ICES-WGNSDS-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-15				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

primary l	primary LME		secondary LME tertiary LME		IE
24 - Celti	24 - Celtic-Biscay Shelf		na n	a	
Parameter	Value	Units	Reference	points	
A50-yr	2-3	yr	Parameter	Value	Units
SSB-AGE-yr	2+	yr	Fmax-1/T	0.51	1/T
REC-AGE-yr	2	yr	F0.1-1/T	0.18	1/T
TB-AGE-yr	2+	yr	Fpa-1/T (F)	0.3	1/T
F-AGE-yr-yr	4-7	yr-yr	SSBpa-MT (SSB)	3800	MT
M-1/T	0.1	1/T	SSBlim-MT (SSB)	2800	MT
SSB-SEX-sex			Flim-1/T (F)	0.4	1/T
M			SSB_{2006}/SSB_{lim}	0.625	
L50-cm			F_{2006}/F_{lim}	1.062	

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1970	1968	1970	1970	1970		
Maximum year 2006 2004 2006 2006 2006							
Time series minimum	1750	1886	0.263	2155	569		
Time series maximum	6540	23415	0.8401	8359	2808		
Units	MT	E03	1/T	MT	MT		



Assessment of West of Scotland whiting

(Merlangius merlangus)
Assessment ID:WGNSDS-WHITVIa-1984-2007-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/387

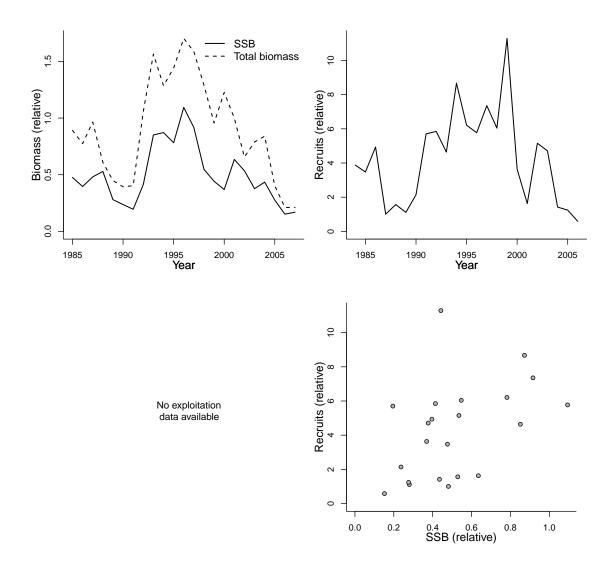
Area ID: multinational-ICES-VIa

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of
	Northern Shelf Demersal Stocks
Assessment authors	Anonymous
Assessment method	Survey based stock assessment method
Publication year	2007
Timeseries span	1984-2007
Document	ICES-WGNSDS-2007.pdf (pdf in
	database)
Recorder	MINTO
Date entered	2008-04-14
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2009-06-10

primary LME	primary LME			ondary LME	tertiary	LME
24 - Celtic-B	iscay Sh	elf	na		na	
Parameter	Value	Un	its			
A50-yr SSB-AGE-yr REC-AGE-yr M-1/T TB-AGE-yr SSB-SEX-sex F-AGE-yr	2 2+ 1 0.2 1+	yr yr yr 1/' yr	Т	Referen Parameter	nce poin Value	ts Units
L50-cm						

Time series minima and maxima									
SSB R F TB Catch									
Minimum year	1985	1984		1985					
Maximum year 2007 2006 2007									
Time series minimum	0.152	0.583		0.211					
Time series maximum	1.094	11.288		1.703					
Units	relative	relative		relative					



Assessment of North Sea atlantic cod (Gadus morhua)

Assessment ID:WGNSSK-CODNS-1962-2007-MINTO
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/398

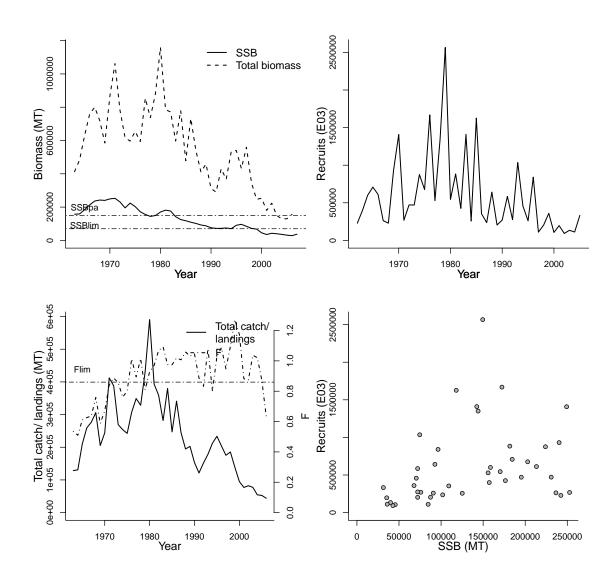
Area ID: multinational-ICES-IV

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak			
Assessment authors	Anonymous			
Assessment method	The ADAPT approach with year effects in a catch multiplier			
Publication year	2007			
Timeseries span	1962-2007			
Document	ICES-WGNSSK-2007.pdf (pdf in database)			
Recorder	MINTO			
Date entered	2008-04-11			
Date last loaded	2010-07-18			
QA/QC complete	YES			
Date approved	2009-06-10			

	primary LME	secor	ndary LME tertiary	LME	
	22 - North Sea	a na	na		
Parameter	Value	Units			
F-AGE-yr-y	r 2-4	77r_77r	Reference	e points	
TB-AGE-yr	1+	yr-yr yr	Parameter	Value	Units
A50-yr	3-4	yr	Flim-1/T (F)	0.86	1/T
M-1/T	0.2 for 4+	1/T	Fpa-1/T (F)	0.65	1/T
REC-AGE			SSBlim-MT (SSB)	70000	MT
SSB-AGE-y	r		SSBpa-MT (SSB)	150000	MT
SSB-SEX-se	ex		SSB_{2007}/SSB_{lim}	0.531	
M			F_{2006}/F_{lim}	0.733	
L50-cm					

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1963	1962	1963	1963	1963			
Maximum year								
Time series minimum 28481 92257 0.51 129581 43856								
Time series maximum 252747 2566638 1.272 1159434 59067								
Units	MT	E03	1/T	MT	MT			



Assessment of IIIa and North Sea haddock

(Melanogrammus aeglefinus)
Assessment ID:WGNSSK-HADNS-IIIa-1963-2006-MINTO

Assessment ID:WGNSSK-HADNS-IIIa-1963-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/388

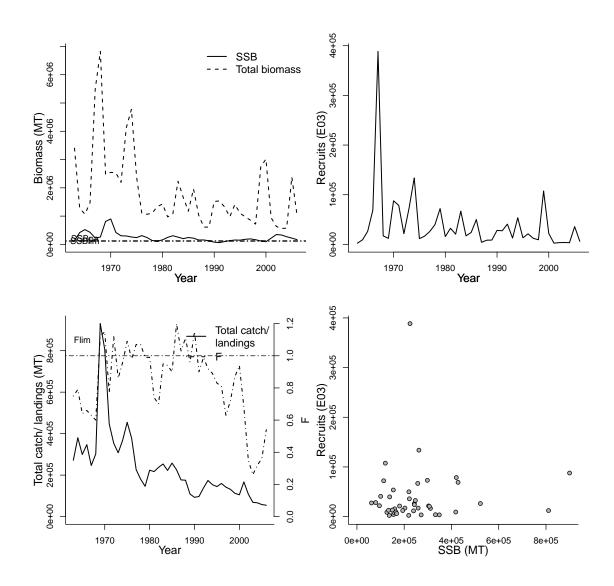
Area ID: multinational-ICES-IIIa-IV

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of De-			
	mersal Stocks in the North Sea and Skagerrak			
Assessment authors	Anon			
Assessment method	Extended Survivor Analysis			
Publication year	2007			
Timeseries span	1963-2006			
Document	ICES-WGNSSK-2007.pdf (pdf in			
	database)			
Recorder	MINTO			
Date entered	2008-04-14			
Date last loaded	2010-07-18			
QA/QC complete	YES			
Date approved	2009-06-10			

	primary LME	secon	dary LME	tertiary L	ME	
	22 - North Sea	na		na		
Parameter	Value	Units				
A50-yr	2-3	vr		Reference	e points	
•	1+	yr	Paramet	er	Value	Units
SSB-AGE-yr	Ī	yr				
REC-AGE-yr	0	yr	SSBlim-	MT (SSB)	100000	MT
TB-AGE-yr	0+	yr	SSBpa-N	AT (SSB)	140000	MT
M-1/T	Age specific	1/T	Fpa-1/T	(F)	0.7	1/T
F-AGE-yr-yr	2-4	yr-yr	Flim-1/7	Γ (F)	1	1/T
SSB-SEX-sex	[$SSB_{2006} /$	SSB_{lim}	1.682	
M			F_{2006}/F_{lin}	m	0.540	
L50-cm						

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1963	1963	1963	1963	1963			
Maximum year	· ·							
Time series minimum 61772 2316.936 0.26 558318 54753								
Time series maximum 899883 388564.67 1.2 6823944 930538								
Units	MT	E03	1/T	MT	MT			



Assessment of North Sea norway pout

(*Trisopterus esmarkii*)
Assessment ID:WGNSSK-NPOUTNS-1983-2007-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/389

Area ID: multinational-ICES-IV

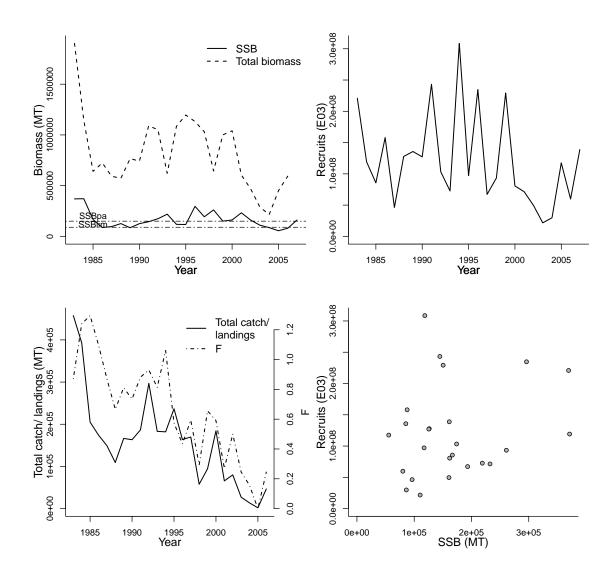
General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of De-				
	mersal Stocks in the North Sea and Sk-				
	agerrak				
Assessment authors	Anonymous				
Assessment method	Extended Survivor Analysis				
Publication year	2007				
Timeseries span	1983-2007				
Document	ICES-WGNSSK-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-13				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

			Parameter	Value	Units
			A50-yr SSB-AGE-yr	1-2 1+	yr yr
primary LME	secondary LME	tertiary LME	REC-AGE-yr TB-AGE-yr	0 0+	yr yr
22 - North Sea	na	na	M-1/T F-AGE-yr-yr SSB-SEX-sex M	0.4 1-2	1/T yr-yr
			L50-cm		

Reference points							
Parameter	Value	Units					
SSBlim-MT (SSB)	90000	MT					
SSBpa-MT (SSB)	150000	MT					
SSB_{2007}/SSB_{lim}	1.792						

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1983	1983	1983	1983	1983			
Maximum year	2007	2007	2006	2006	2006			
Time series minimum	55568	21662000	0	215118	1900			
Time series maximum	371336	308548000	1.295	1902065	457600			
Units	MT	E03	1/T	MT	MT			



Assessment of Eastern English Channel european plaice (*Pleuronectes platessa*) Assessment ID:WGNSSK-PLAIC7d-1979-2006-MINTO

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/390

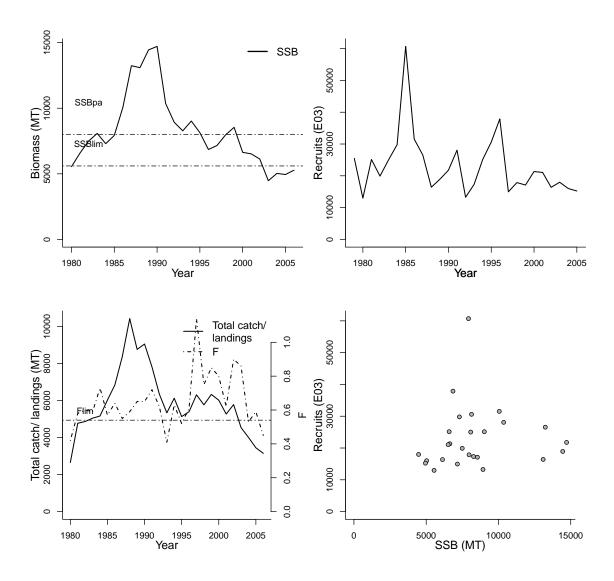
Area ID: multinational-ICES-VIId

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of De-			
	mersal Stocks in the North Sea and Sk-			
	agerrak			
Assessment authors	Anonymous			
Assessment method	Extended Survivor Analysis			
Publication year	2007			
Timeseries span	1979-2006			
Document	ICES-WGNSSK-2007.pdf (pdf in			
	database)			
Recorder	MINTO			
Date entered	2008-04-13			
Date last loaded	2010-07-18			
QA/QC complete	YES			
Date approved	2009-06-10			

primary l	LME		secondary LME to	ertiary LM	IE
24 - Celtic-Biscay Shelf		na n	a		
Parameter	Value	Units			
450 vr	3	37r	Reference	e points	
A50-yr SSB-AGE-yr	3 2+	yr yr	Parameter	Value	Units
REC-AGE-yr	1	yr	SSBlim-MT (SSB)	5600	MT
TB-AGE-yr	1+	yr	SSBpa-MT (SSB)	8000	MT
M-1/T	0.1	1/T	Flim-1/T (F)	0.54	1/T
F-AGE-yr-yr	3-6	yr-yr	Fpa-1/T (F)	0.45	1/T
SSB-SEX-sex			SSB_{2006}/SSB_{lim}	0.942	
M			F_{2006}/F_{lim}	0.833	
L50-cm					

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1980	1979	1980		1980			
Maximum year 2006 2005 2006 2006								
Time series minimum	4473	12969	0.41		2650			
Time series maximum	14714	60704	1.14		10420			
Units	MT	E03	1/T		MT			



Assessment of Kattegat and Skagerrak european plaice (*Pleuronectes platessa*)

Assessment ID:WGNSSK-PLAICIIIa-1976-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/391

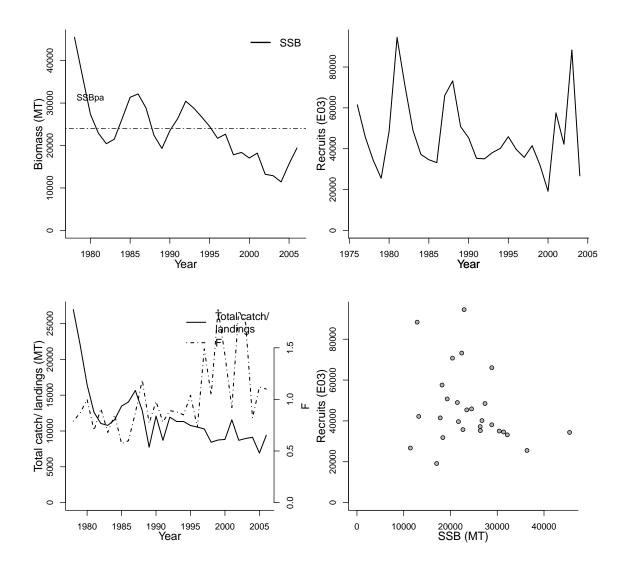
Area ID: multinational-ICES-IIIa

General assessment details.

Detail	Value		
Management body	ICES		
Assessment group	Working Group on the Assessment of De-		
	mersal Stocks in the North Sea and Sk-		
	agerrak		
Assessment authors	Anonymous		
Assessment method	Extended Survivor Analysis		
Publication year	2007		
Timeseries span	1976-2006		
Document	ICES-WGNSSK-2007.pdf (pdf in		
	database)		
Recorder	MINTO		
Date entered	2008-04-13		
Date last loaded	2010-07-18		
QA/QC complete	YES		
Date approved	2009-06-10		

			Parameter	Value	Units
			A50-yr	2	yr
			SSB-AGE-yr	2+	yr
primary LME	secondary LME	tertiary LME	REC-AGE-yr M-1/T	2 0.1	yr 1/T
22 - North Sea	na	na	F-AGE-yr-yr	4-8	yr-yr
			TB-AGE-yr SSB-SEX-sex M L50-cm	2+	yr
	R	eference points			

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1978	1976	1978		1978			
Maximum year	Maximum year 2006 2004 2006 2006							
Time series minimum 11423 19141 0.57 6916								
Time series maximum 45470 94503 1.87 26953								
Units	MT	E03	1/T		MT			



Assessment of North Sea european plaice

(Pleuronectes platessa)
Assessment ID:WGNSSK-PLAICNS-1956-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/392

Area ID: multinational-ICES-IV

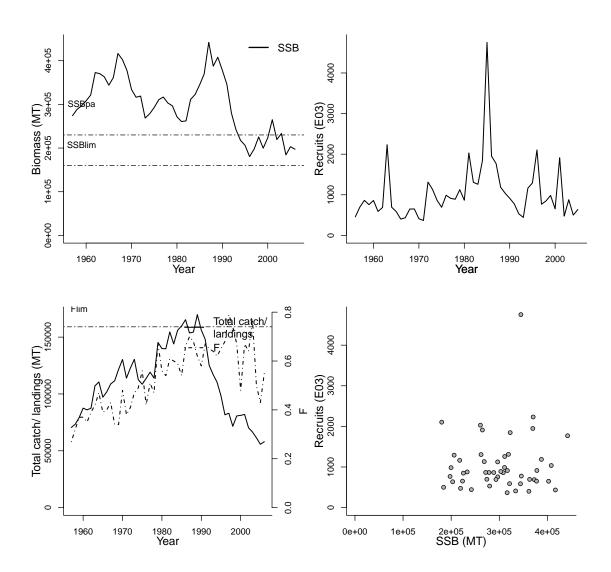
General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of De-			
	mersal Stocks in the North Sea and Sk-			
	agerrak			
Assessment authors	Anonymous			
Assessment method	Extended Survivor Analysis			
Publication year	2007			
Timeseries span	1956-2006			
Document	ICES-WGNSSK-2007.pdf (pdf in			
	database)			
Recorder	MINTO			
Date entered	2008-04-13			
Date last loaded	2010-07-18			
QA/QC complete	YES			
Date approved	2009-06-10			

			Parameter	Value	Units
			A50-yr	2-3	yr
			SSB-AGE-yr	2+	yr
nrimory I MF	secondary LME	tortions I ME	REC-AGE-yr	1	yr
primary LME	Secondary Livie	tertiary LME	M-1/T	0.1	1/T
22 - North Sea	na	na	F-AGE-yr-yr	2-6	yr-yr
-		_	TB-AGE-yr	1+	yr
			SSB-SEX-sex		
			M		
			L50-cm		

Reference points						
Parameter	Value	Units				
SSBlim-MT (SSB)	160000	MT				
SSBpa-MT (SSB)	230000	MT				
Fpa-1/T (F)	0.6	1/T				
Flim-1/T (F)	0.74	1/T				
F0.1-1/T	0.17	1/T				
SSB_{2006}/SSB_{lim}	1.233					
F_{2006}/F_{lim}	0.743					

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1957	1956	1957		1957			
Maximum year								
Time series minimum 180384 366.601 0.27 55700								
Time series maximum 441943 4752.726 0.79 169818								
Units	MT	E03	1/T		MT			



Assessment of IIIa, VI and North Sea pollock (*Pollachius virens*)

Assessment ID:WGNSSK-POLLNS-VI-IIIa-1964-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/393

Area ID: multinational-ICES-IIIa-IV-VI

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of De-				
	mersal Stocks in the North Sea and Sk-				
	agerrak				
Assessment authors	Anonymous				
Assessment method	Extended Survivor Analysis				
Publication year	2007				
Timeseries span	1964-2006				
Document	ICES-WGNSSK-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-14				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

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

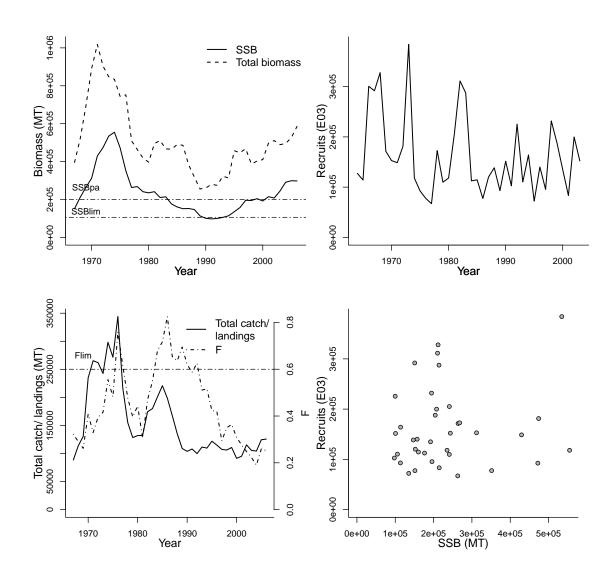
tertiary LME

secondary LME

primary LME

г	′		J	5	
22 - No	rth Sea	24 - Ce	24 - Celtic-Biscay Shelf na		
Parameter	Value	Units	Reference	e points	
A50-yr	4-5	yr	Parameter	Value	Units
SSB-AGE-yr	4+	yr	SSBlim-MT (SSB)	106000	MT
REC-AGE-yr	3	yr	SSBpa-MT (SSB)	200000	MT
TB-AGE-yr	3+	yr	Fpa-1/T (F)	0.4	1/T
M-1/T	0.2	1/T	F0.1-1/T	0.11	1/T
F-AGE-yr-yr	3-6	yr-yr	Fmax-1/T	0.22	1/T
SSB-SEX-sex			Flim-1/T (F)	0.6	1/T
M			SSB_{2006}/SSB_{lim}	2.811	
L50-cm			F_{2006}/F_{lim}	0.420	

Time series minima and maxima								
	SSB R F TB Catch							
Minimum year	1967	1964	1967	1967	1967			
Maximum year								
Time series minimum	97609	67123	0.19	255620	88326			
Time series maximum	554904	384108	0.825	1018303	343967			
Units	MT	E03	1/T	MT	MT			



Assessment of North Sea sand lance (*Ammodytes marinus*)

Assessment ID:WGNSSK-SEELNS-1983-2007-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/394

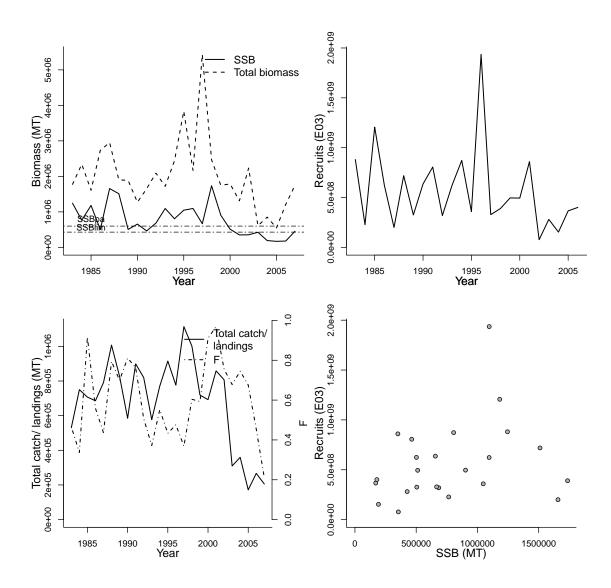
Area ID: multinational-ICES-IV

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of De-				
	mersal Stocks in the North Sea and Sk-				
	agerrak				
Assessment authors	Anonymous				
Assessment method	Extended Survivor Analysis				
Publication year	2007				
Timeseries span	1983-2007				
Document	ICES-WGNSSK-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-12				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

_	primary LME	secoi	ndary LME tertiar	y LME	
_	22 - North Sea	a na	na		
Parameter	Value	Units			
A50-yr SSB-AGE-yr	2 2+	yr yr	Referen	ce points	
REC-AGE-yr	. 0	yr	Parameter	Value	Units
M-1/T F-AGE-yr-yr TB-AGE-yr SSB-SEX-se:	0+	1/T yr-yr yr	SSBlim-MT (SSB SSBpa-MT (SSB) SSB_{2007}/SSB_{lim}		MT MT
M L50-cm					

Time series minima and maxima								
	SSB R F TB Catch							
Minimum year	1983	1983	1983	1983	1983			
Maximum year	2007	2006	2007	2007	2007			
Time series minimum	169965	77203000	0.21	549532	171790			
Time series maximum	1735847	1935600000	0.969	5435685	1114044			
Units	MT	E03	1/T	MT	MT			



Assessment of North Sea common european sole (Solea vulgaris)

Assessment ID:WGNSSK-SOLENS-1956-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/395

Area ID: multinational-ICES-IV

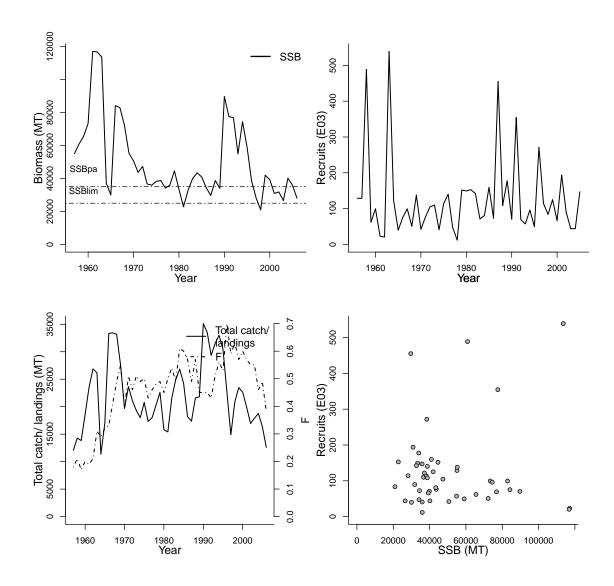
General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of De-				
	mersal Stocks in the North Sea and Sk-				
	agerrak				
Assessment authors	Anonymous				
Assessment method	Extended Survivor Analysis				
Publication year	2007				
Timeseries span	1956-2006				
Document	ICES-WGNSSK-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-13				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

			Parameter	Value	Units
			A50-yr	3	yr
			SSB-AGE-yr	3+	yr
primary LME	secondary LME	tertiary LME	REC-AGE-yr M-1/T	1 0.1	yr 1/T
22 - North Sea	na	na	F-AGE-yr-yr	2-6	yr-yr
			TB-AGE-yr SSB-SEX-sex M L50-cm	1+	yr

Reference points						
Parameter	Value	Units				
SSBlim-MT (SSB)	25000	MT				
SSBpa-MT (SSB)	35000	MT				
Fpa-1/T (F)	0.4	1/T				
F0.1-1/T	0.119	1/T				
Fmax-1/T	0.51	1/T				
SSB_{2006}/SSB_{lim}	1.120					

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1957	1956	1957		1957		
Maximum year	2006	2005	2006		2006		
Time series minimum 20945 11.727 0.17 1134							
Time series maximum		35120					
Units	MT	E03	1/T		MT		



Assessment of Eastern English Channel common european sole (Solea vulgaris)

Assessment ID:WGNSSK-SOLEVIId-1981-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/396

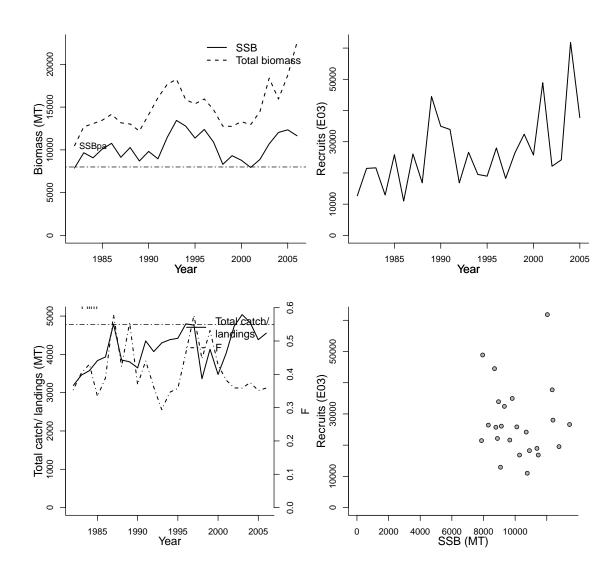
Area ID: multinational-ICES-VIId

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of De-				
	mersal Stocks in the North Sea and Sk-				
	agerrak				
Assessment authors	Anonymous				
Assessment method	Extended Survivor Analysis				
Publication year	2007				
Timeseries span	1981-2006				
Document	ICES-WGNSSK-2007.pdf (pdf in				
	database)				
Recorder	MINTO				
Date entered	2008-04-13				
Date last loaded	2010-07-18				
QA/QC complete	YES				
Date approved	2009-06-10				

primary I	primary LME		secondary LME to	ertiary LN	Æ
24 - Celti	c-Biscay	Shelf	na n	a	
Parameter	Value	Units			
A50-yr	3	vr	Reference	e points	
SSB-AGE-yr	3+	yr yr	Parameter	Value	Units
REC-AGE-yr	1	yr	SSBpa-MT (SSB)	8000	MT
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.4	1/T
M-1/T	0.1	1/T	Flim-1/T (F)	0.55	1/T
F-AGE-yr-yr	3-8	yr-yr	F0.1-1/T	0.13	1/T
SSB-SEX-sex			Fmax-1/T	0.3	1/T
M			F_{2006}/F_{lim}	0.653	
L50-cm			_		

Time series minima and maxima						
	SSB	R	F	TB	Catch	
Minimum year	1982	1981	1982	1982	1982	
Maximum year	2006	2005	2006	2006	2006	
Time series minimum	7876	11007	0.2938	10484	3190	
Time series maximum	13442	61817	0.5792	22566	5038	
Units	MT	E03	1/T	MT	MT	



Assessment of IIIa, VIId and North Sea whiting (Merlangius merlangus)

Assessment ID:WGNSSK-WHITNS-VIId-IIIa-1979-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/397

Area ID: multinational-ICES-IIIa-IV-VIId

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of De-			
	mersal Stocks in the North Sea and Sk-			
	agerrak			
Assessment authors	Anon			
Assessment method	Extended Survivor Analysis			
Publication year	2007			
Timeseries span	1979-2006			
Document	ICES-WGNSSK-2007.pdf (pdf in			
	database)			
Recorder	MINTO			
Date entered	2008-04-14			
Date last loaded	2010-07-18			
QA/QC complete	YES			
Date approved	2009-06-10			

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

tertiary LME

secondary LME

primary LME

22 - North Sea 24 - Celtic-Biscay Shelf na					
Parameter	Value	Units	Reference points		
A50-yr	1	yr	Parameter	Value	Units
SSB-AGE-yr	1+	yr	SSBlim-MT (SSB)	225000	MT
REC-AGE-yr	1	yr	SSBpa-MT (SSB)	315000	MT
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.65	1/T
M-1/T	Age specific	1/T	F0.1-1/T	0.1	1/T
F-AGE-yr-yr	2-6	yr-yr	Fmax-1/T	0.19	1/T
SSB-SEX-sex			Flim-1/T (F)	0.9	1/T
M			SSB_{2006}/SSB_{lim}	0.431	
L50-cm			F_{2006}/F_{lim}	0.578	
			1 2006 / 1 lim	0.576	

Time series minima and maxima						
	SSB	R	F	TB	Catch	
Minimum year	1980	1979	1980	1980	1980	
Maximum year	2006	2005	2006	2006	2006	
Time series minimum	96967	383532	0.26	138290	26795	
Time series maximum	521533	4423048	1.12	837376	223517	
Units	MT	E03	1/T	MT	MT	

