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

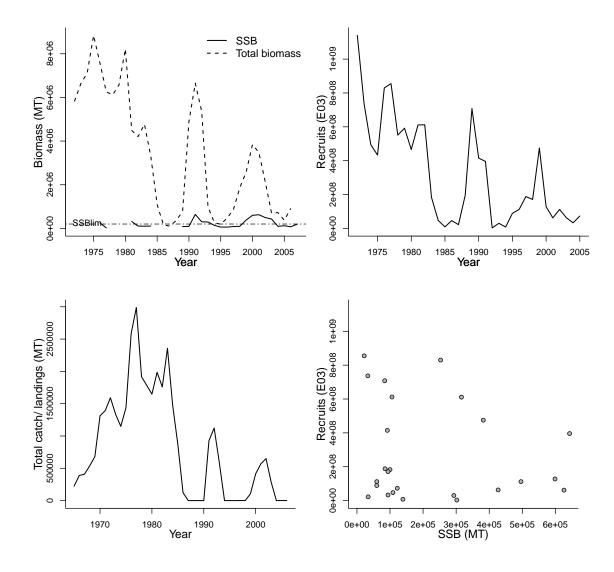
Area ID: multinational-ICES-I

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

	primary LME	s	eco	ondary LME	tertiai	y LME	
	20 - Barents	Sea n	a		na		
Parameter	Value	Units	_				
SCD ACE un	2+	7712	_	R	eferen	ce points	
SSB-AGE-yr	-	yr		Parameter		Value	Units
REC-AGE-yr		yr					
TB-AGE-yr	1+	yr		SSBlim-MT ((SSB)	200000	MT
M-1/T	AVAILABLE	1/T		MORATOR-y	r-yr	1986-1991	yr-yr
F-AGE-yr				MORATOR-y	r-yr	1993-1999	yr-yr
M				MORATOR-y	r-yr	2004-2006	yr-yr
A50-yr				SSB_{2007}/SSB_{2007}	β_{lim}	0.945	
L50-cm							

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

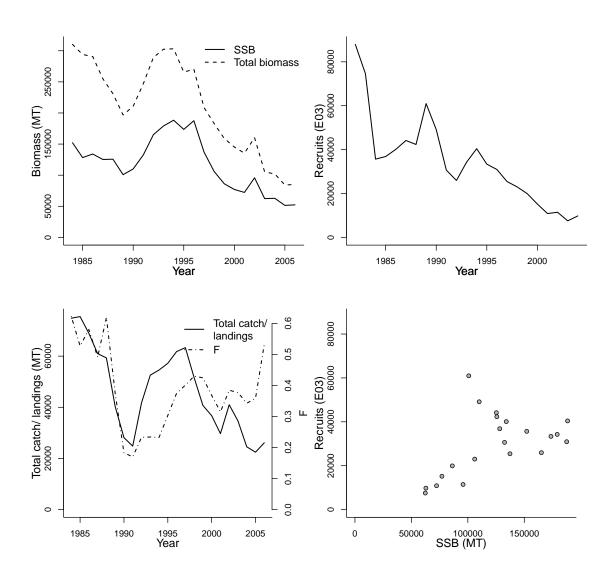
Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anon
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	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

primary LI	primary LME		ndary LME	tertiary l	LME
21 - Norwe	21 - Norwegian Sea			na	
Parameter	Value	Units	•		
A50-yr SSB-AGE-yr REC-AGE-yr	5 2+ 2	yr yr yr	Pofor	ence poin	ıta
F-AGE-yr-yr M-1/T	4-7 0.2	yr-yr 1/T	Parameter	-	Units
TB-AGE-yr M L50-cm	2+	yr			

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 2243							
Time series maximum 188357 87938 0.6221 310230 754							
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	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

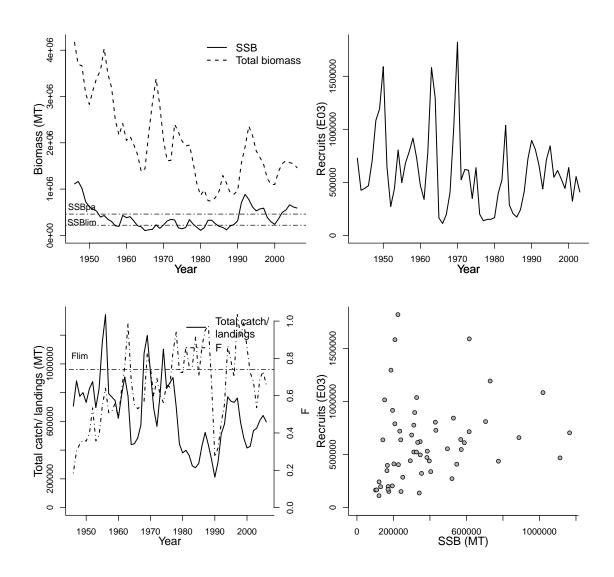
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME secondary LME

tertiary LME

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	20 - Ba	rents S	ea 21 -	Norwegian Sea na	l	
	A50-yr SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr M-1/T TB-AGE-yr M	6.5 3+ 3 5-10 0.2	yr yr yr yr-yr 1/T	Parameter SSBlim-MT (SSB) SSBpa-MT (SSB) F0.1-1/T Flim-1/T (F) Fpa-1/T (F) Fmax-1/T SSB_{2006}/SSB_{lim}	Value 220000 460000 0.15 0.74 0.4 0.28 2.685	MT MT 1/T 1/T 1/T

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

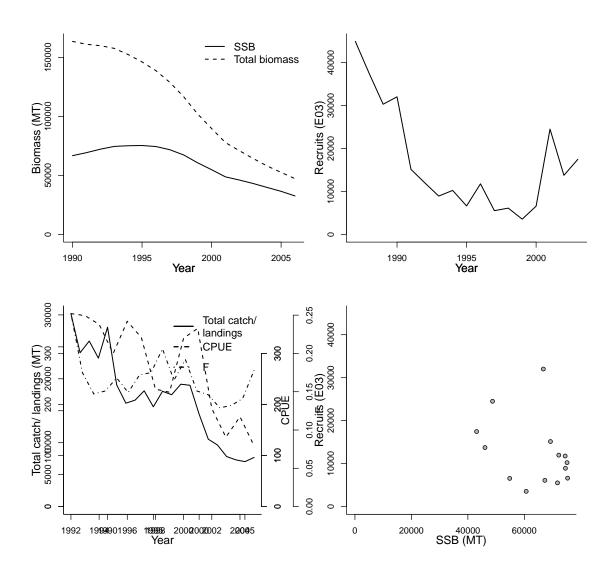
Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body Assessment group Assessment authors Assessment method	ICES Arctic Fisheries Working Group Anon Globally Applicable area-Disaggregated General Ecosystem Toolbox - An ecosystem-based management tool used for assessment
Publication year Timeseries span Document Recorder Date entered Date last loaded QA/QC complete Date approved	2007 1986-2006 ICES-AFWG-2007.pdf (pdf in database) MINTO 2008-04-07 2009-06-08 YES 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 SSB-AGE-yr	3 4+	yr yr	Refere	ence points	
M-1/T	0.10	1/T	Parameter	Value	Units
TB-AGE-yr	3+	yr	MORATOR-yr-yr	2004-2007	yr-yr
F-AGE-yr-yr	12-19	yr-yr			
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	32572	3547	0.129	47231	7037
Time series maximum	75317	44912	0.252	163536	30203
Units	MT	E03	1/T	MT	MT



Assessment of North-East Arctic haddock (Melanogrammus aeglefinus) Assessment ID:AFWG-HADNEAR-1947-2006-MINTO

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

Area ID: multinational-ICES-I-II

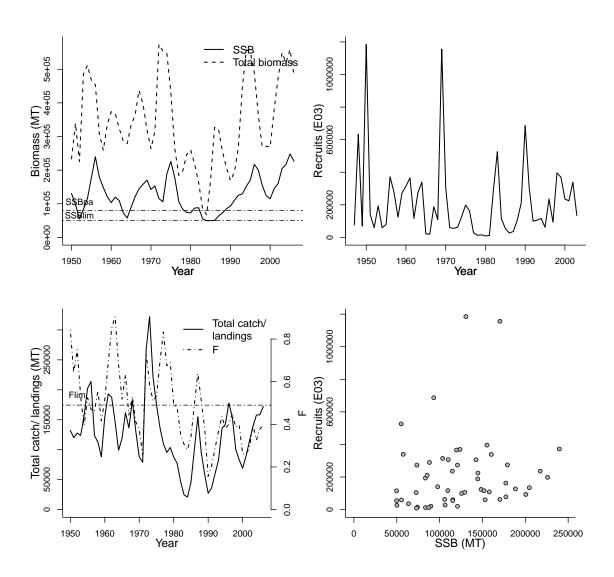
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

primary LME	secondary LME	tertiary LME
20 - Barents Sea	21 - Norwegian Se	a na
Value	Units	Reference points
0		Treference Politics

Parameter	Value	Units	Reference	points	
A50-yr	6	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr M-1/T TB-AGE-yr M L50-cm	3+ 3 4-7 0.2+cod mortality 3+	yr yr yr-yr 1/T yr	SSBlim-MT (SSB) SSBpa-MT (SSB) Flim-1/T (F) Fpa-1/T (F) SSB_{2006}/SSB_{lim} F_{2006}/F_{lim}	50000 80000 0.49 0.35 4.533 0.806	MT MT 1/T 1/T

Tin	Time series minima and maxima				
SSB R F TB Catch					
Minimum year	1950	1947	1950	1950	1950
Maximum year	2006	2003	2006	2006	2006
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	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

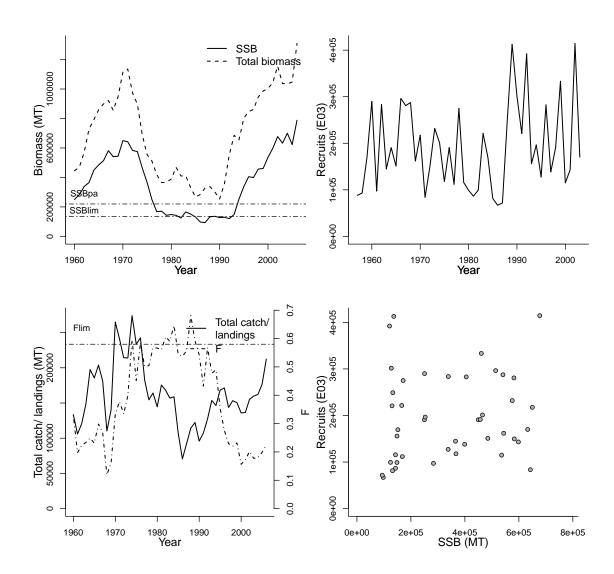
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

tertiary LME

primary LME secondary LME

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

Time series minima and maxima					
SSB R F TB Catch					
Minimum year	1960	1957	1960	1960	1960
Maximum year	2006	2003	2006	2006	2006
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.

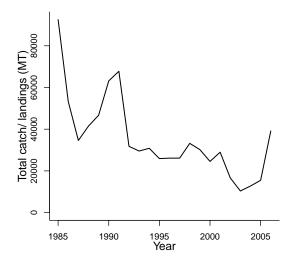
Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anon
Assessment method	Temporal indices derived from scientific
	survey data
Publication year	2007
Timeseries span	1985-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-07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

primary LN	primary LME		ry LME	tertiary	LME
20 - Baren	20 - Barents Sea 21		21 - Norwegian Sea		
Parameter	Value	Units			
A50-yr REC-AGE	13	yr	Refere	nce poin	te .
SSB-AGE-yr TB-AGE-yr			Parameter	-	
F-AGE-yr M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year					1985
Maximum year					2006
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

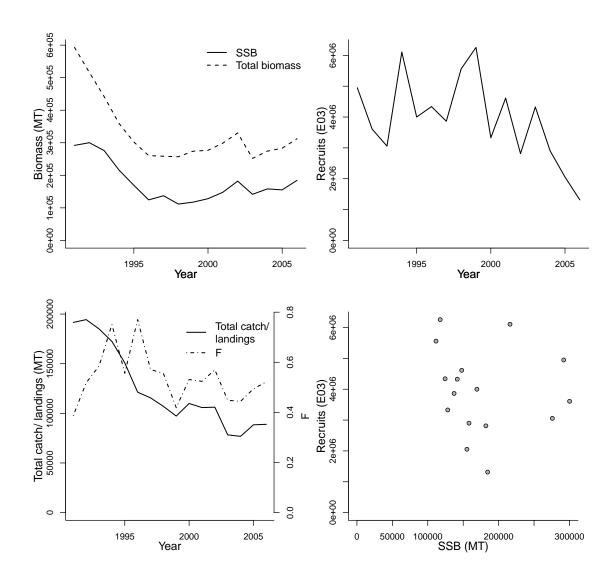
Area ID: multinational-ICES-22-24-IIIa

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for
	the Area South of 62N
Assessment authors	Anon
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	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

prim	ary LME	secondary LME		tertia	ry LME	_
22 -	North Sea	23 - Balti	c Sea	na		_
Parameter	Value	Units				
A50-yr	2-3	yr				
SSB-AGE-yr	2+	yr		Refere	nce poin	ts
REC-AGE-yr	0	yr	Parai	meter	Value	Units
TB-AGE-yr	0+	yr	F0.1-	-1 /T	0.22	1/T
F-AGE-yr-yr	3-6	yr-yr		x-1/T		1/T
M-1/T	0.2 for 2	+ 1/T		X-1/1	0.55	1/1
M						
L50-cm						

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1991	1991	1991	1991	1991
Maximum year	2006	2006	2006	2006	2006
Time series minimum	111615	1313450	0.3875	251938	76815
Time series maximum	300193	6257570	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

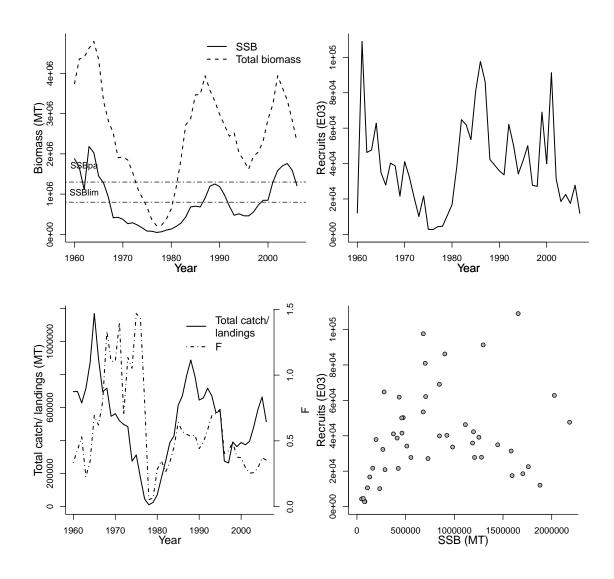
Area ID: multinational-ICES-IV

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for the Area South of 62N
Assessment authors	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

	primary LME) ;	seco:	ndary LME tertia	y LME	
	22 - North Se	ea :	na	na		
Parameter	Value	Uni	its			
ΛΕΟ	2			Referen	ce points	
A50-yr	_	yr		Parameter	Value	Units
SSB-AGE-yr	2+	yr			- varae	
REC-AGE-yr	. 0	yr		F0.1-1/T	0.22	1/T
TB-AGE-yr	0+	yr		Fpa-1/T (F)	0.25	1/T
F-AGE-yr-yr	2-6	yr-	yr	SSBpa-MT (SSB)	1300000	MT
M-1/T	0.1 for 4+	1/7	r	SSBlim-MT (SSB)	800000	MT
M				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/ramlegacy-bug-reporting/371

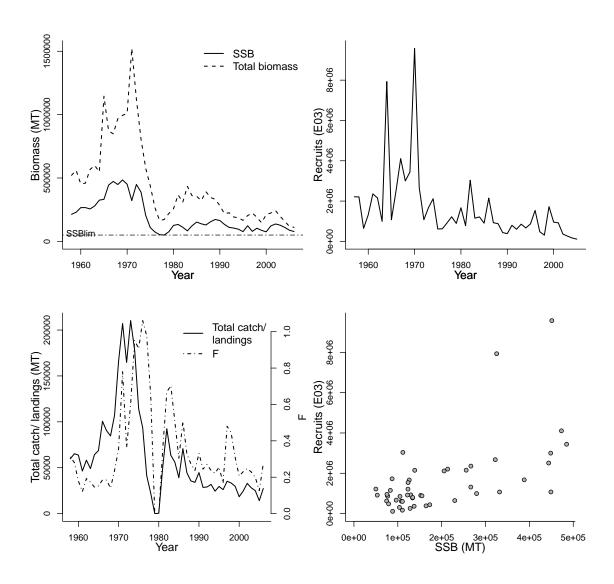
Area ID: multinational-ICES-VIa

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for
	the Area South of 62N
Assessment authors	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

prima	ry LME		secondary LME	tertiary LMI	E
24 - C	eltic-Biscay	Shelf	na	na	
Parameter	Value	Units			
A50-yr SSB-AGE-yr REC-AGE-yr	1-2 2+ 1	yr yr yr	Refe Parameter	rence points Value	Units
TB-AGE-yr F-AGE-yr-yr M-1/T	1+ 3-6 0.1 for 4+	yr yr-yr 1/T	F0.1-1/T SSBlim-MT (\$ SSB ₂₀₀₆ /SSB ₁	-	1/T MT
M L50-cm					

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

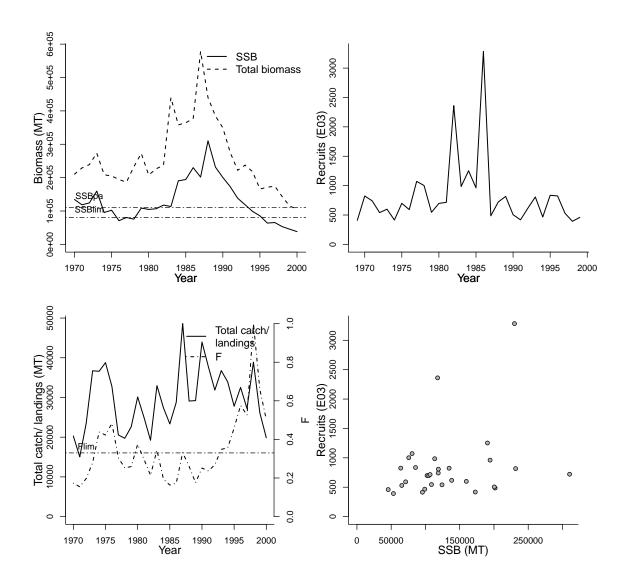
Area ID: multinational-ICES-VIa-VIIb-VIIc

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for
	the Area South of 62N
Assessment authors	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

primary	LME		secondary LME t	ertiary LM	E
24 - Celtic-Biscay Shelf		na r	ıa		
Parameter	Value	Units	Reference	e points	
A50-yr	1	yr	Parameter	Value	Units
SSB-AGE-yr	1+	yr	SSBlim-MT (SSB)	81000	MT
REC-AGE-yr	1	yr	SSBpa-MT (SSB)	110000	MT
TB-AGE-yr	1+	yr	Flim-1/T (F)	0.33	1/T
F-AGE-yr-yr	3-6	yr-yr	Fpa-1/T (F)	0.22	1/T
M			SSB_{2000}/SSB_{lim}	0.472	
L50-cm			F_{2000}/F_{lim}	1.522	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1969	1970	1970	1970
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	48600
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.

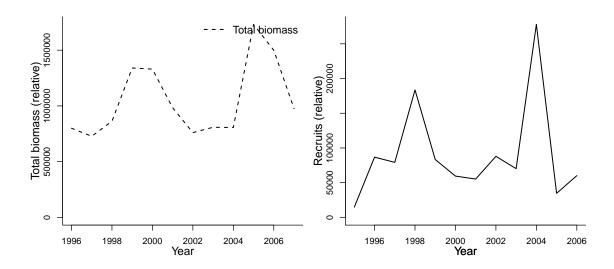
Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for
	the Area South of 62N
Assessment authors	Anon
Assessment method	Catch-Survey Analysis (like a state space
	approach)
Publication year	2007
Timeseries span	1995-2007
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder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

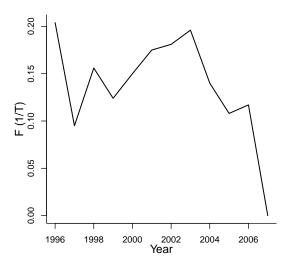
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

			Parameter	Value	Units
			SSB-AGE-yr	1+	yr
			REC-AGE-yr	1	yr
primary LME	secondary LME	tertiary LME	TB-AGE-yr	1+	yr
22 - North Sea	na	na	M-1/T A50-yr	0.75 0-1	1/T yr
			F-AGE-yr	0 1	y i
			M		
			L50-cm		

Reference points Parameter Value Units

Time series minima and maxima						
	SSB	R	F	TB	Catch	
Minimum year		1995	1996	1996		
Maximum year		2006	2007	2007		
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.

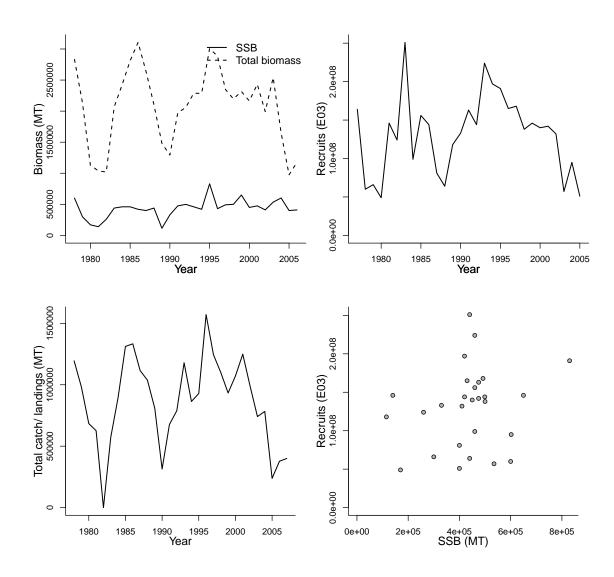
Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	acoustic surveys
Publication year	2007
Timeseries span	1977-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-10
Date last loaded	2009-06-08
QA/QC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

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

			Parameter	Value	Units
			A50-yr	2	yr
primary LME	secondary LME	tertiary LME	SSB-AGE-yr REC-AGE-yr	2+ 1	yr yr
59 - Iceland Shelf	na	na	TB-AGE-yr	1+	yr
			F-AGE-yr M L50-cm		

Reference points
Parameter Value Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1977		1978	1978
Maximum year	2006	2005		2006	2007
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

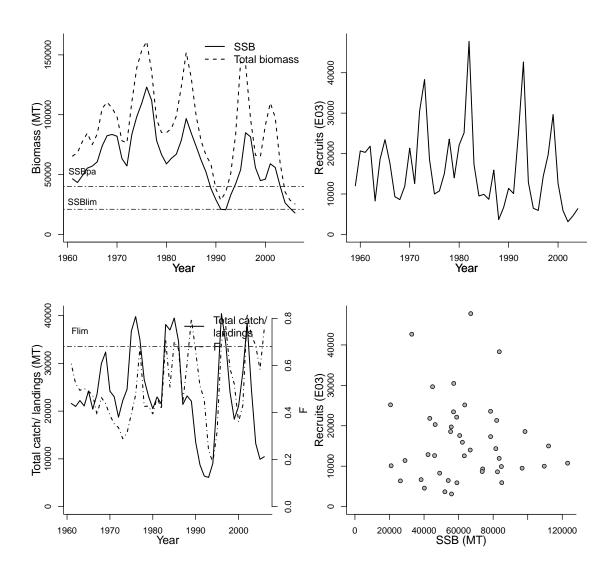
Area ID: multinational-ICES-Vb1

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

prima	ry LME	s	secondary LME	tertia	ary LME	-
60 - F	aroe Pla	teau r	na	na		-
Reference points						
Parameter	Value	Units	Parameter		Value	Units
A50-yr	3	yr	SSBlim-MT (S	SSB)	21000	MT
SSB-AGE-yr	2+	yr	SSBpa-MT (S	SB)	40000	MT
REC-AGE-yr	2	yr	F0.1-1/yr (F)		0.12	1/yr
F-AGE-yr-yr	3-7	yr-yr	Fmax-1/T		0.25	1/T
TB-AGE-yr	1+	yr	Flim-1/T (F)		0.68	1/T
M		•	Fpa-1/T (F)		0.35	1/T
L50-cm			SSB_{2006}/SSB_{2006}	lim	0.851	
			F_{2006}/F_{lim}		1.115	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1961	1959	1961	1961	1961
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.

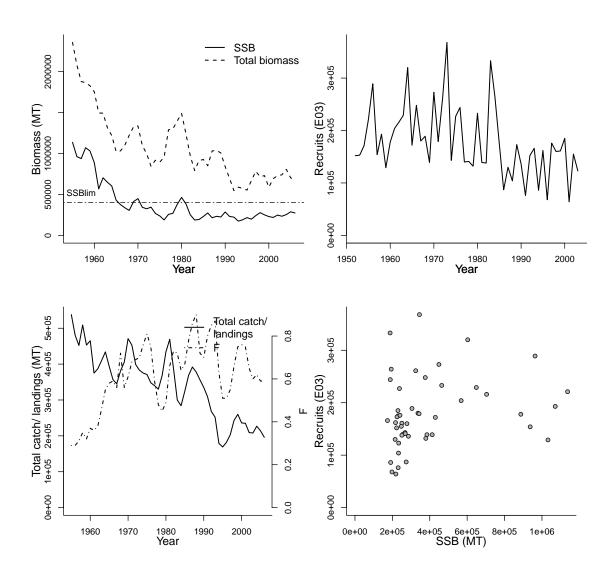
Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1952-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-10
Date last loaded	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

primary LME	secondary LME	tertiary LME
59 - Iceland Shelf	na	na

Parameter	Value	Units
A50-yr SSB-AGE-yr	6.5 3+	yr
REC-AGE-yr	3	yr yr
TB-AGE-yr M-1/T	4+ 0.25	yr 1/T
F-AGE-yr-yr	5-10	yr-yr
M L50-cm		

Reference points					
Parameter	Value	Units			
SSBlim-MT (SSB)	400000	MT			
F0.1-1/T	0.15	1/T			
Fmax-1/T	0.34	1/T			
SSB_{2006}/SSB_{lim}	0.682				

Time series minima and maxima						
SSB R F TB Catch						
Minimum year	1955	1952	1955	1955	1955	
Maximum year	2006	2003	2006	2006	2006	
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 Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/377

Area ID: multinational-ICES-Vb1

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-08

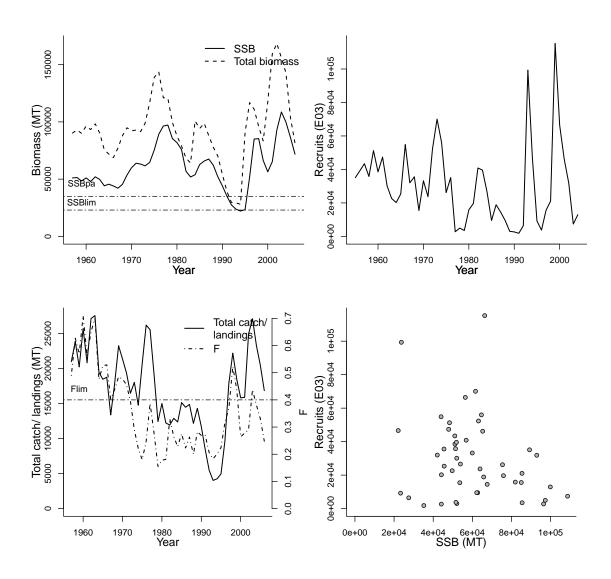
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME

secondary LME tertiary LME

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		•				_
A50-yr 3 yr SSBIm-MT (SSB) 23000 MT SSB-AGE-yr 2+ yr SSBpa-MT (SSB) 35000 MT REC-AGE-yr 2 yr F0.1-1/T 0.15 1/T F-AGE-yr-yr 3-7 yr-yr Fmax-1/T 0.61 1/T TB-AGE-yr 0+ yr Flim-1/T (F) 0.4 1/T M-1/T 0.2 1/T Fpa-1/T (F) 0.25 1/T M SSB ₂₀₀₆ /SSB _{lim} 3.121 3.121	60 - Faroe Plateau na na			na na		_
	A50-yr SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr TB-AGE-yr M-1/T	3 2+ 2 3-7 0+	yr yr yr yr-yr yr	Parameter SSBlim-MT (SSB) SSBpa-MT (SSB) F0.1-1/T Fmax-1/T Flim-1/T (F) Fpa-1/T (F) SSB ₂₀₀₆ /SSB _{lim}	Value 23000 35000 0.15 0.61 0.4 0.25 3.121	MT MT 1/T 1/T 1/T

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/ramlegacy-bug-reporting/378

Area ID: multinational-ICES-Va

General assessment details.

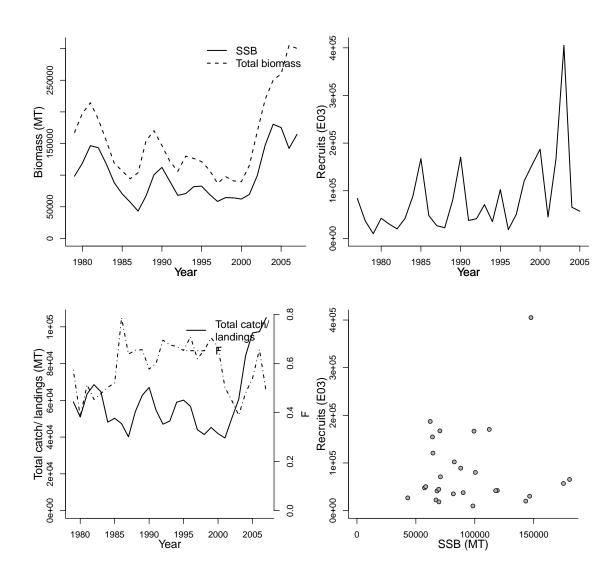
Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1977-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-10
Date last loaded	2009-06-08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

primary LME	secondary LME	tertiary LME
59 - Iceland Shelf	na	na

Parameter	Value	Units
A50-yr	4	yr
SSB-AGE-yr REC-AGE-yr	1+ 2	yr yr
TB-AGE-yr	3+	yr
M-1/T F-AGE-yr-yr	$0.2 \\ 4-7$	1/T
M	4-7	yr-yr
L50-cm		

Reference points					
Parameter Value Units					
F0.1-1/T	0.16	1/T			
Fmax-1/T	0.44	1/T			
Fpa-1/T (F)	0.47	1/T			

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

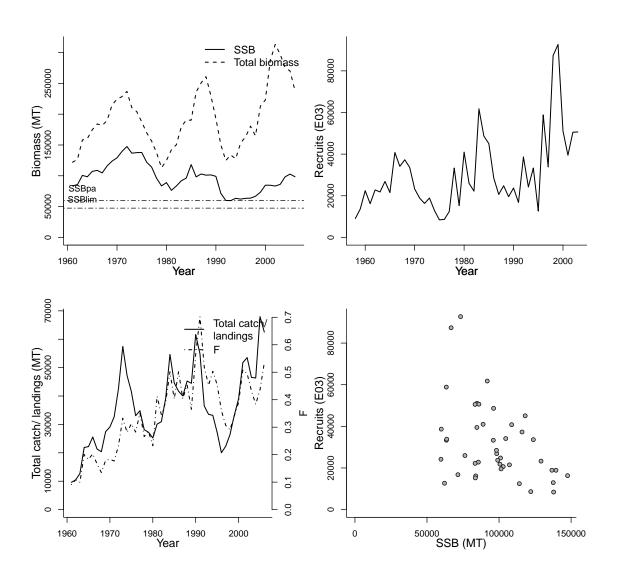
Area ID: multinational-ICES-Vb1

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
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	2010-03-16
QA/QC complete	YES
Date approved	2009-06-08

prima	ry LME		secondary LME 1	tertiary LME	_
60 - Faroe Plateau na na					_
Parameter	Value	Units		ence points	
A50-yr	5	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr TB-AGE-yr M-1/T M L50-cm	3+ 3 4-8 3+ 0.2	yr yr yr-yr yr 1/T	SSBlim-MT (SS SSBpa-MT (SS F0.1-1/T Fmax-1/T Fpa-1/T (F) SSB ₂₀₀₆ /SSB _{lin}	B) 60000 0.14 0.45 0.5	MT MT 1/T 1/T 1/T

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1961	1958	1961	1961	1961		
Maximum year	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

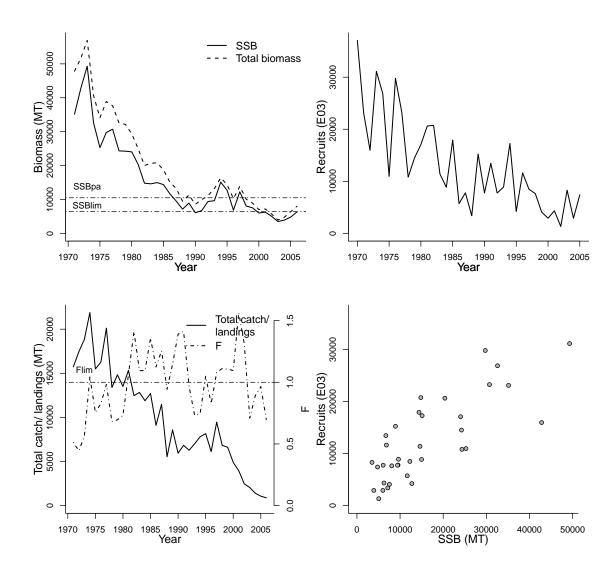
General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Baltic Fisheries Assessment Working				
	Group				
Assessment authors	Anon				
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	2010-03-15				
QA/QC complete	YES				
Date approved	2009-06-10				

			Parameter	Value	Units
			A50-yr SSB-AGE-yr	2 1+	yr 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
			M-1/T 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	· · · · · · · · · · · · · · · · · · ·						
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

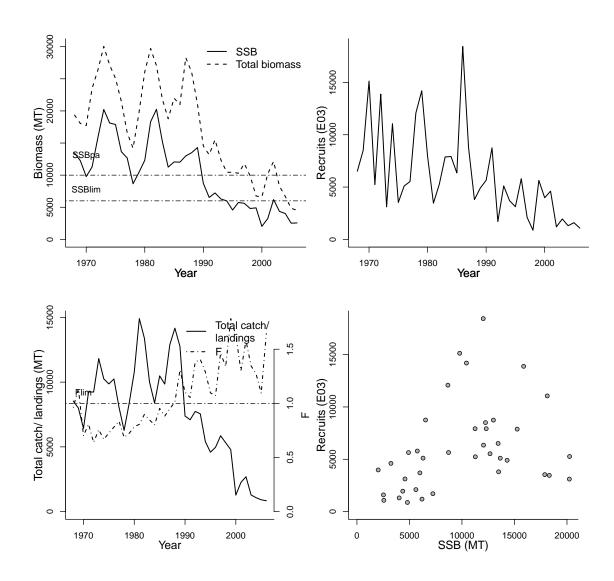
Area ID: multinational-ICES-VIIa

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of				
	Northern Shelf Demersal Stocks				
Assessment authors	Anon				
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	2010-03-15				
QA/QC complete	YES				
Date approved	2009-06-10				

primary	primary LME		secondary LME to	ertiary LM	IE
24 - Celt	24 - Celtic-Biscay Shelf		na n	ıa	
Parameter A50-yr SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr-yr M L50-cm	Value 2 2+ 0 0+ 0.2 2-4	Units yr yr yr yr yr yr yr 1/T yr-yr	Reference Parameter SSBlim-MT (SSB) SSBpa-MT (SSB) Fpa-1/T (F) Fmax-1/T Flim-1/T (F) F0.1-1/T SSB_{2006}/SSB_{lim} F_{2006}/F_{lim}	e points Value 6000 10000 0.72 0.32 1 0.18 0.427 1.644	Units MT MT 1/T 1/T 1/T 1/T

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1968	1968	1968	1968	1968			
Maximum year	Maximum year 2006 2006 2006 2006 2006							
Time series minimum 2025 875 0.6386 4537 838								
Time series maximum 20249 18442 1.7828 30044 1490								
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

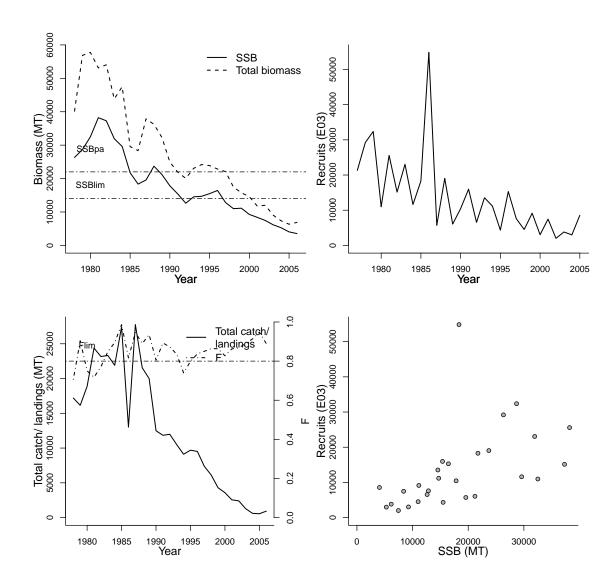
Area ID: multinational-ICES-VIa

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 anal-				
Publication year	ysis 2007				
Timeseries span	1977-2006				
Document	ICES-WGNSDS-2007.pdf (pdf in database)				
Recorder	MINTO				
Date entered	2008-04-14				
Date last loaded	2010-03-15				
QA/QC complete	YES				
Date approved	2009-06-10				

primary LME		ertiary LM	ΙE	
24 - Celtic-Biscay Shelf		a		
lue Units	Reference	Reference points		
yr	Parameter	Value	Units	
- yr	SSBlim-MT (SSB)	14000	MT	
yr	SSBpa-MT (SSB)	22000	MT	
- yr	Fpa-1/T (F)	0.6	1/T	
2 1/T	Fmax-1/T	0.19	1/T	
5 yr-yr	Flim-1/T (F)	0.8	1/T	
	SSB_{2006}/SSB_{lim}	0.252		
	F_{2006}/F_{lim}	1.111		
	Biscay Shelf Units yr yr yr yr 1 yr 1/T	Biscay Shelf na	Biscay Shelf na	

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

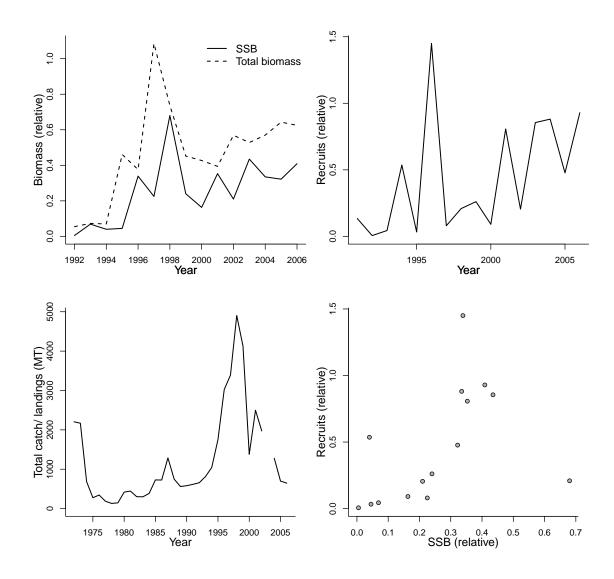
Area ID: multinational-ICES-VIIa

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of			
	Northern Shelf Demersal Stocks			
Assessment authors	Anon			
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	2009-06-10			
QA/QC complete	YES			
Date approved	2009-06-10			

primary LM	sec	ondary LME	tertiary	LME	
24 - Celtic-Biscay Shelf				na	
Parameter	Value	Units			
A50-yr SSB-AGE-yr REC-AGE-yr	2 2+ 0	yr yr yr	Referer Parameter	ice point Value	s Units
M-1/T TB-AGE-yr F-AGE-yr M L50-cm	0.2	1/T	Fpa-1/T (F) Fmax-1/T	0.5 0.35	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 Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/384

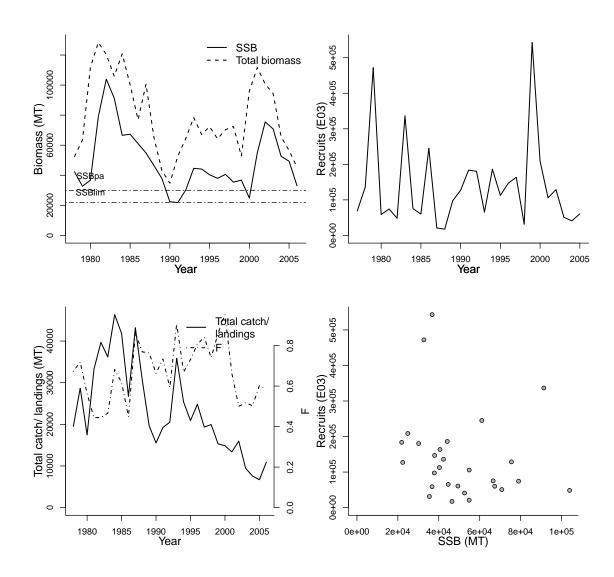
Area ID: multinational-ICES-VIa

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	2010-03-15				
QA/QC complete	YES				
Date approved	2009-06-10				

primary	LME		secondary LME t	ertiary LM	IE
24 - Celtic-Biscay Shelf		na i	na		
Parameter	Value	Units	Referenc	e points	
A50-yr	2	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr-yr M L50-cm	2+ 1 1+ 0.2 2-6	yr yr yr 1/T yr-yr	SSBlim-MT (SSB) SSBpa-MT (SSB) Fpa-1/T (F) F0.1-1/T Fmax-1/T SSB_{2006}/SSB_{lim}	22000 30000 0.5 0.19 0.21 1.501	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 20						
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

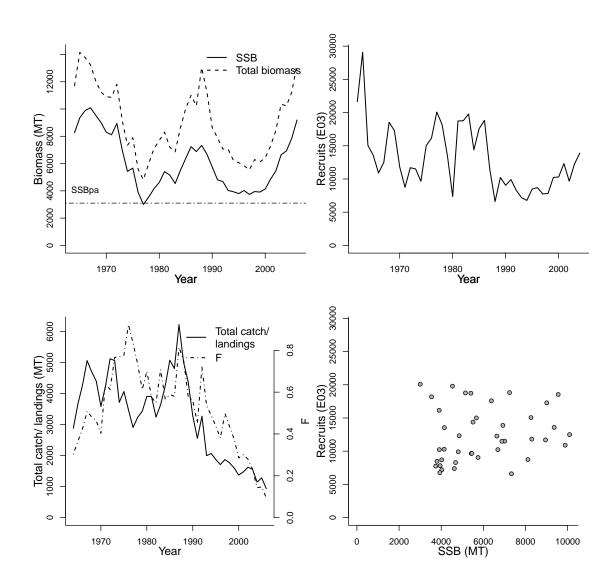
Area ID: multinational-ICES-VIIa

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of			
	Northern Shelf Demersal Stocks			
Assessment authors	Anon			
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	2010-03-15			
QA/QC complete	YES			
Date approved	2009-06-10			

primary l	primary LME		secondary LME	tertiary LME	
24 - Celtic-Biscay Shelf		na	na		
Parameter	Value	Units	-		
A50-yr SSB-AGE-yr	3 2+	yr yr	Reference Parameter	ce points Value	Units
REC-AGE-yr TB-AGE-yr F-AGE-yr-yr M-1/T M	2 2+ 3-6 0.12	yr 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
L50-cm					

Time series minima and maxima						
SSB R F TB Catch						
Minimum year	1964	1962	1964	1964	1964	
Maximum year	2006	2004	2006	2006	2006	
Time series minimum	3003	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

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

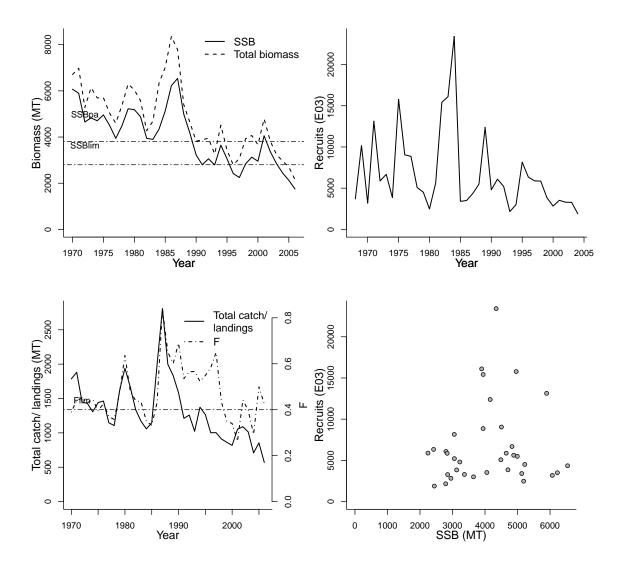
Area ID: multinational-ICES-VIIa

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of				
	Northern Shelf Demersal Stocks				
Assessment authors	Anon				
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	2010-03-15				
QA/QC complete	YES				
Date approved	2009-06-10				

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

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1970	1968	1970	1970	1970		
Maximum year 2006 2004 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	МТ	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

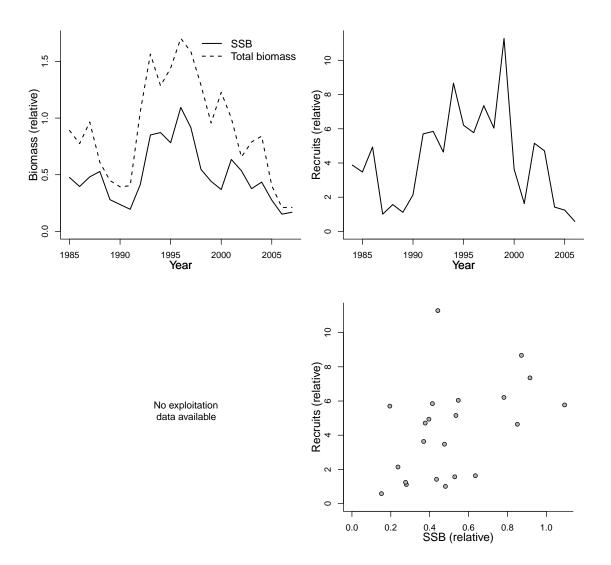
Area ID: multinational-ICES-VIa

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of
	Northern Shelf Demersal Stocks
Assessment authors	Anon
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	2009-06-10
QA/QC complete	YES
Date approved	2009-06-10

primary LMI	primary LME			tertiar	y LME
24 - Celtic-Biscay Shelf				na	
Parameter	Value	Units			
A50-yr SSB-AGE-yr	2 2+	yr yr			
REC-AGE-yr	1	yr	Referen	nce poin	ts
M-1/T	0.2 1+	1/T	Parameter	Value	Units
TB-AGE-yr F-AGE-yr M L50-cm	1+	yr			

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1985	1984		1985			
Maximum year	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 De-				
	mersal Stocks in the North Sea and Sk-				
	agerrak				
Assessment authors	Anon				
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	2010-03-15				
QA/QC complete	YES				
Date approved	2009-06-10				

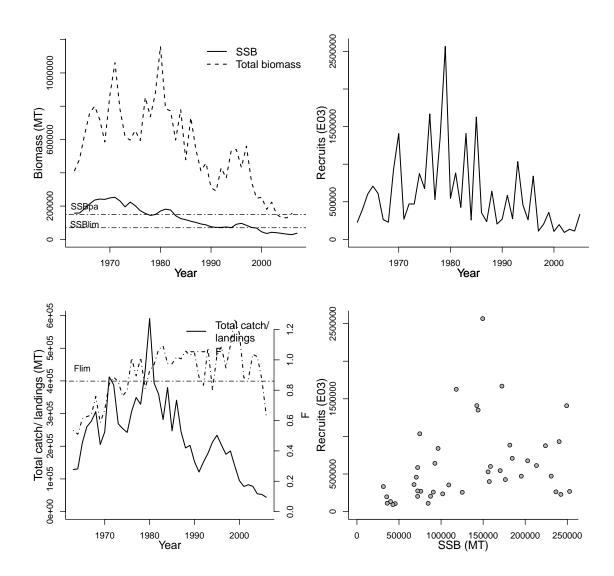
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME

secondary LME tertiary LME

	22 - North Se	a na	na		
Parameter	Value	Units	Reference	-	
F-AGE-yr-y TB-AGE-yr A50-yr M-1/T REC-AGE SSB-AGE-y M L50-cm	1+ 3-4 0.2 for 4+	yr-yr yr yr 1/T	Parameter Flim-1/T (F) Fpa-1/T (F) SSBlim-MT (SSB) SSBpa-MT (SSB) SSB_{2007}/SSB_{lim} F_{2006}/F_{lim}	Value 0.86 0.65 70000 150000 0.531 0.733	1/T 1/T MT MT

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1963	1962	1963	1963	1963		
Maximum year 2007 2005 2006 2006 2							
Time series minimum 28481 92257 0.51 129581 4385							
Time series maximum	252747	2566638	1.272	1159434	590678		
Units	MT	E03	1/T	MT	MT		



Assessment of IIIa and North Sea haddock

(Melanogrammus aeglefinus)
Assessment ID:WGNSSK-HADNS-IIIa-1963-2006-MINTO Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/388

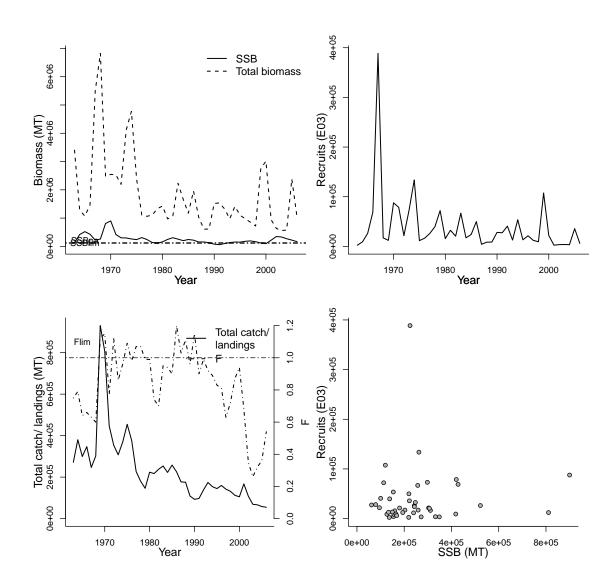
Area ID: multinational-ICES-IIIa-IV

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of De-			
	mersal Stocks in the North Sea and Sk-			
Assessment authors	agerrak 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	2010-03-15			
QA/QC complete	YES			
Date approved	2009-06-10			

•	primary LME	secon	dary LME tertiary	LME	
	22 - North Sea	. na	na		
Parameter	Value	Units	Referenc	e points	
A50-yr	2-3	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr-yr M L50-cm	0 0+ Age specific	yr yr yr 1/T yr-yr	SSBlim-MT (SSB) SSBpa-MT (SSB) Fpa-1/T (F) Flim-1/T (F) SSB_{2006}/SSB_{lim} F_{2006}/F_{lim}	100000 140000 0.7 1 1.682 0.540	MT MT 1/T 1/T

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1963	1963	1963	1963	1963		
Maximum year	2006	2006					
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

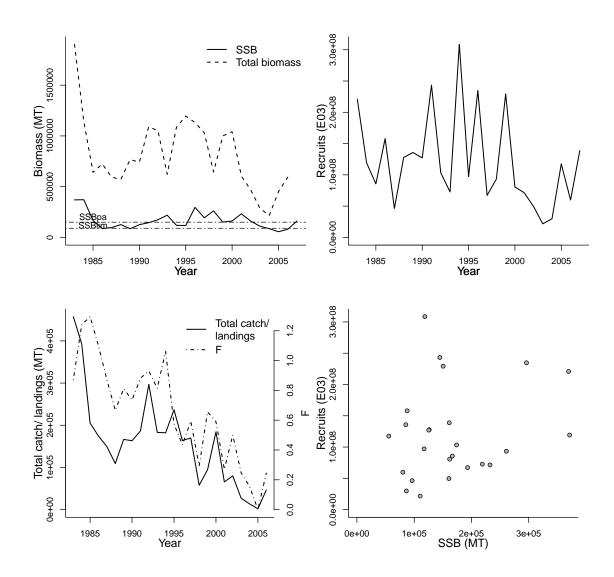
General assessment details.

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	Anon			
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	2010-03-15			
QA/QC complete	YES			
Date approved	2009-06-10			

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

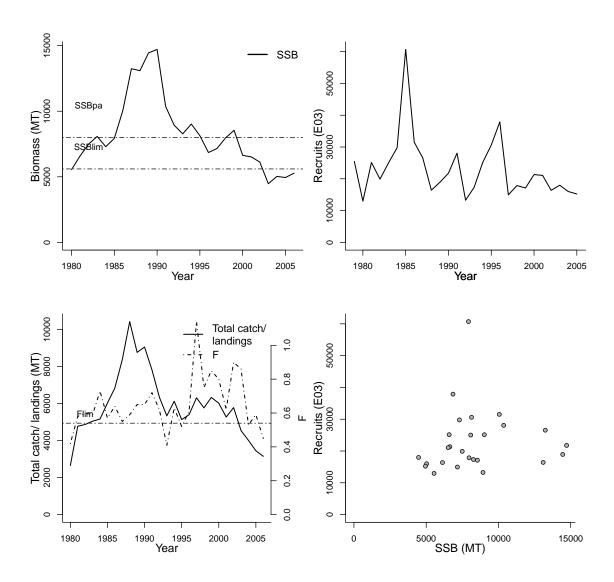
Area ID: multinational-ICES-VIId

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak			
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	2008-04-13			
Date last loaded	2010-03-15			
QA/QC complete	YES			
Date approved	2009-06-10			

primary LME			secondary LME te	rtiary LN	ΙE
24 - Celtic-Biscay Shelf			na na	a	
Parameter	Value	Units	Reference	points	
A50-yr	3	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr-yr M L50-cm	2+ 1 1+ 0.1 3-6	yr yr yr 1/T yr-yr	SSBlim-MT (SSB) SSBpa-MT (SSB) Flim-1/T (F) Fpa-1/T (F) SSB_{2006}/SSB_{lim} F_{2006}/F_{lim}	5600 8000 0.54 0.45 0.942 0.833	MT MT 1/T 1/T

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

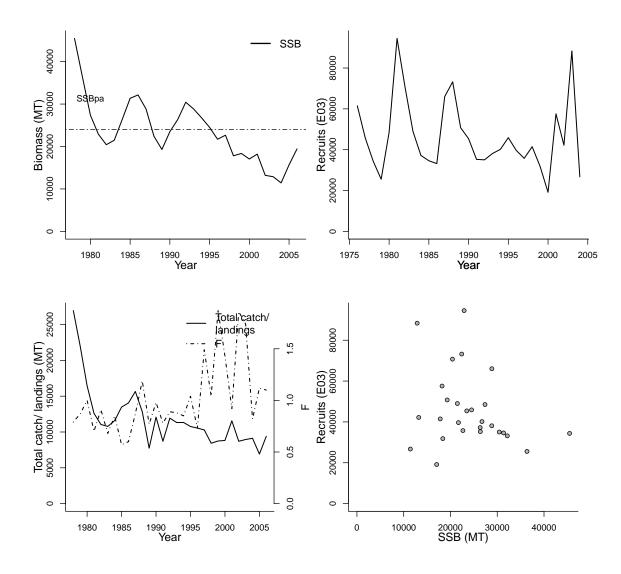
Area ID: multinational-ICES-IIIa

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	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-10

					Parameter	Value	Units
					A50-yr SSB-AGE-yr	2 2+	yr yr
primary LME	secondar	ry LME	tertiar	y LME	REC-AGE-yr	2	yr
22 - North Sea	na		na		M-1/T F-AGE-yr-yr	0.1 4-8	1/T yr-yr
					TB-AGE-yr M L50-cm	2+	yr
	' <u></u>	Re	ference	points			
	Par	rameter		Value	Units		
		Bpa-MT a-1/T (F		24000 0.73	MT 1/T		

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1978	1976	1978		1978		
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

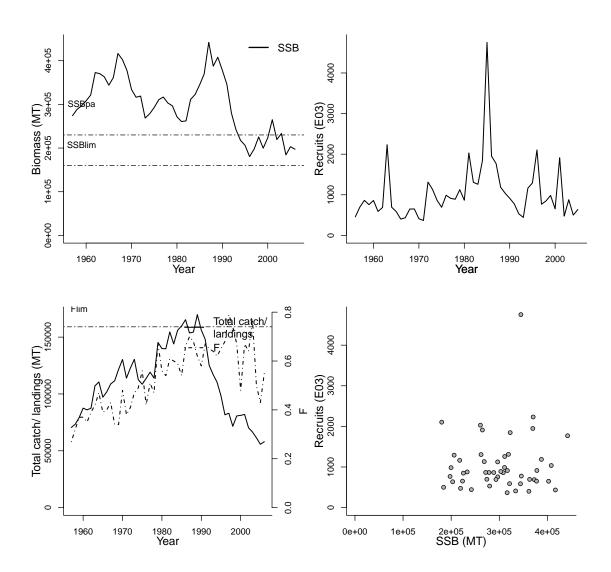
General assessment details.

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	Anon			
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	2010-03-15			
QA/QC complete	YES			
Date approved	2009-06-10			

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

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	2006	2005	2006		2006			
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

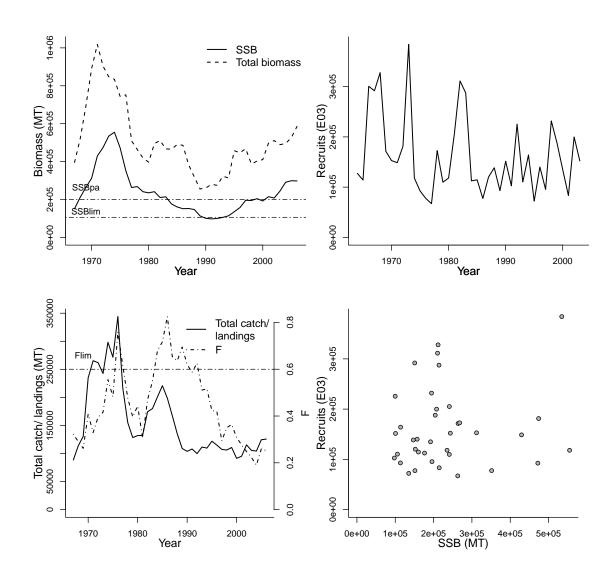
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Sk-
A	agerrak
Assessment authors	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-10

	prima	ary LME second		ary LME	tertiary LME	
	22 - N	orth Sea	24 - Ce	eltic-Biscay Shelf	na	
ar	neter	Value		Refere	nce points	
_		varue		Parameter	Value	Ur

Parameter	Value	Units	Reference	e points	
	varue	Ullits	Parameter	Value	Units
A50-yr SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr-yr M L50-cm	4-5 4+ 3 3+ 0.2 3-6	yr yr yr yr 1/T yr-yr	SSBlim-MT (SSB) SSBpa-MT (SSB) Fpa-1/T (F) F0.1-1/T Fmax-1/T Flim-1/T (F) SSB_{2006}/SSB_{lim} F_{2006}/F_{lim}	106000 200000 0.4 0.11 0.22 0.6 2.811 0.420	MT MT 1/T 1/T 1/T

Tim	Time series minima and maxima					
	SSB	R	F	TB	Catch	
Minimum year	1967	1964	1967	1967	1967	
Maximum year	2006	2003	2006	2006	2006	
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

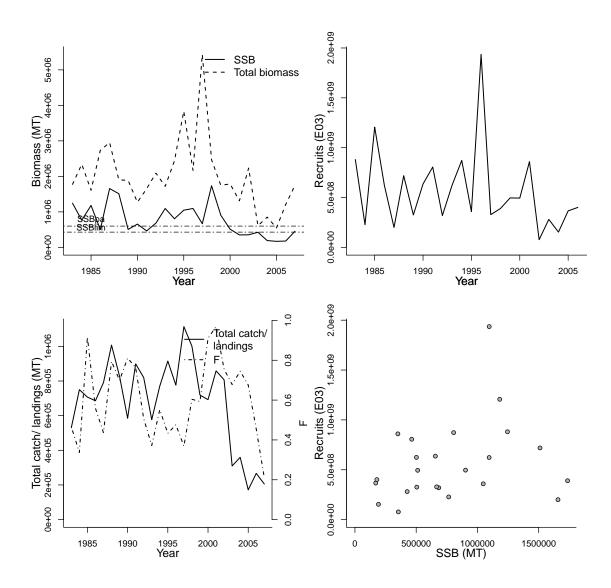
Area ID: multinational-ICES-IV

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	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-10

	primary LME	secon	ndary LME tertiary	LME	
_	22 - North Se	a na	na		
Parameter	Value	Units			
A50-yr SSB-AGE-yr REC-AGE-y		yr yr yr	Reference Parameter	e points Value	Units
M-1/T F-AGE-yr-y: TB-AGE-yr M L50-cm	0.2 for 1+	1/T yr-yr yr	SSBlim-MT (SSB) SSBpa-MT (SSB) SSB_{2007}/SSB_{lim}	430000 600000 1.057	MT MT

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

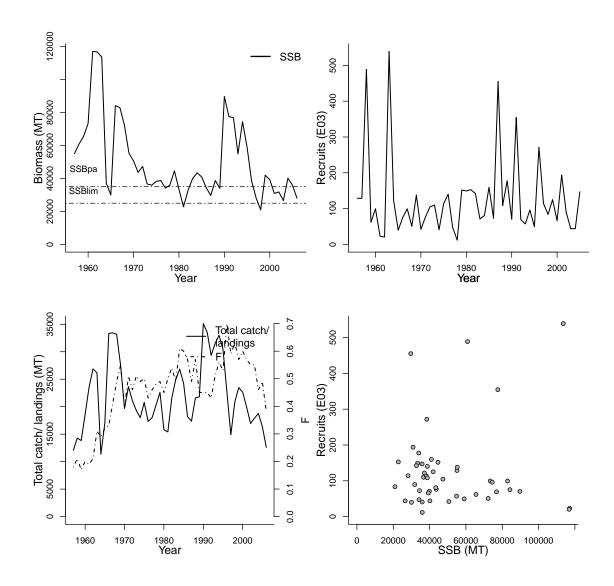
General assessment details.

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	Anon
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	2010-03-15
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	1	yr
22 - North Sea	na	na	M-1/T	0.1	1/T
			F-AGE-yr-yr	2-6	yr-yr
			TB-AGE-yr	1+	yr
			M		
			L50-cm		

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 se	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		11342	
Time series maximum	117094	538.987	0.7		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

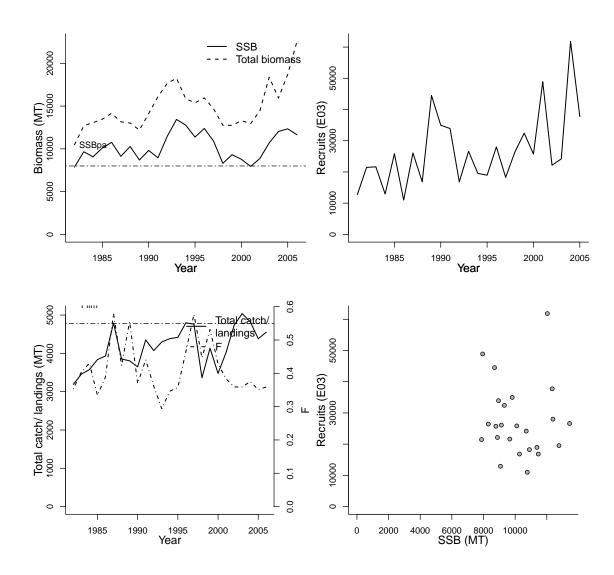
Area ID: multinational-ICES-VIId

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Sk-
A	agerrak
Assessment authors	Anon
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	2010-03-15
QA/QC complete	YES
Date approved	2009-06-10

primary LME			secondary LME t	ertiary LI	ME	
24 - Celtic-Biscay Shelf		na na				
Parameter	Value	Units	Reference points			
A50-yr SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr-yr M L50-cm	3 3+ 1 1+ 0.1 3-8	yr yr yr yr 1/T yr-yr	Parameter SSBpa-MT (SSB) Fpa-1/T (F) Flim-1/T (F) F0.1-1/T Fmax-1/T F_{2006}/F_{lim}	Value 8000 0.4 0.55 0.13 0.3 0.653	MT 1/T 1/T 1/T 1/T 1/T	

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	2010-03-15			
QA/QC complete	YES			
Date approved	2009-06-10			

primary LME	secondary LME	tertiary LME
22 - North Sea	24 - Celtic-Biscay Shelf	na

Parameter	Value	Units	Reference points			
Parameter	varue	———	Parameter	Value	Units	
A50-yr SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr-yr M L50-cm	1 1+ 1 1+ Age specific 2-6	yr yr yr yr 1/T yr-yr	SSBlim-MT (SSB) SSBpa-MT (SSB) Fpa-1/T (F) F0.1-1/T Fmax-1/T Flim-1/T (F) SSB_{2006}/SSB_{lim} F_{2006}/F_{lim}	225000 315000 0.65 0.1 0.19 0.9 0.431 0.578	MT MT 1/T 1/T 1/T	

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	

