

Dear Simon,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 27 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 North-East Arctic greenland halibut (*Reinhardtius hippoglossoides*)

Assessment ID:AFWG-GHALNEAR-1959-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/76>

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	1959-2007
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-26
Date last loaded	2009-06-01
QA/QC complete	YES
Date approved	2009-05-29

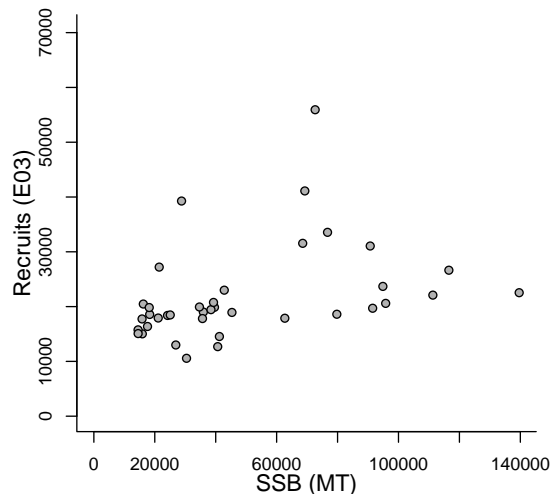
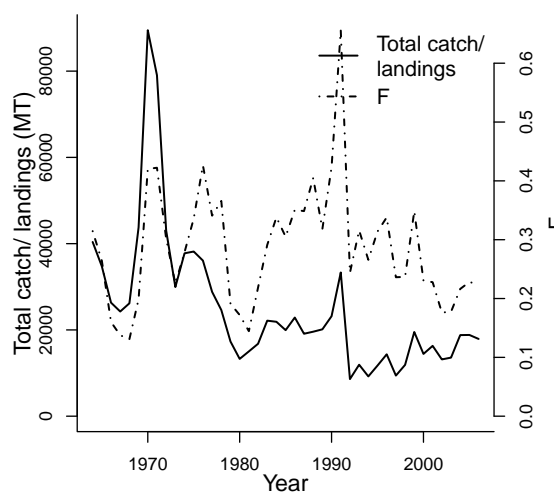
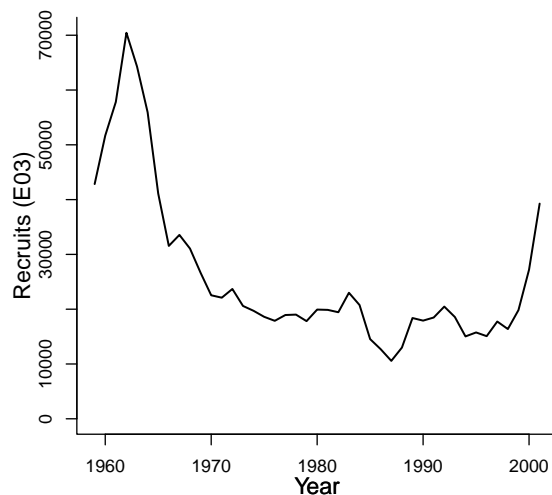
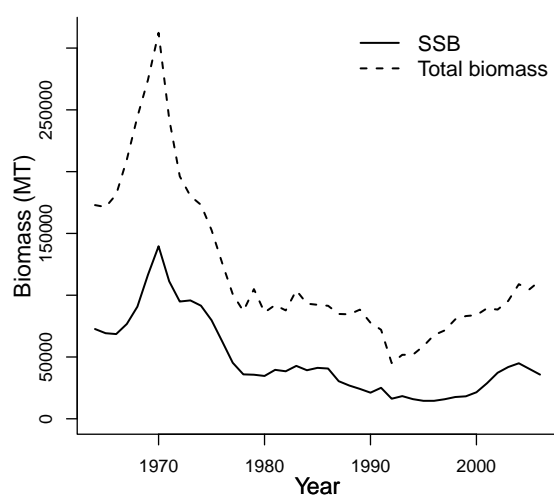
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

	primary LME	secondary LME	tertiary LME
	20 - Barents Sea	21 - Norwegian Sea	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	5	yr	
F-AGE-yr-yr	6 to 10	yr-yr	
TB-AGE-yr	5+	yr	
A50-yr	AVAILABLE	yr	
M-1/T	0.15	1/T	
SSB-SEX-sex			
M			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1964	1959	1964	1964	1964
Maximum year	2006	2001	2006	2006	2006
Time series minimum	14516	10569	0.1309	45036	8602
Time series maximum	139620	70443	0.6561	312354	89484
Units	MT	E03	1/T	MT	MT



Assessment of Irish Sea herring (*Clupea harengus*)

Assessment ID: HAWG-HERRNIRS-1960-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/77>

Area ID: multinational-ICES-VIIa

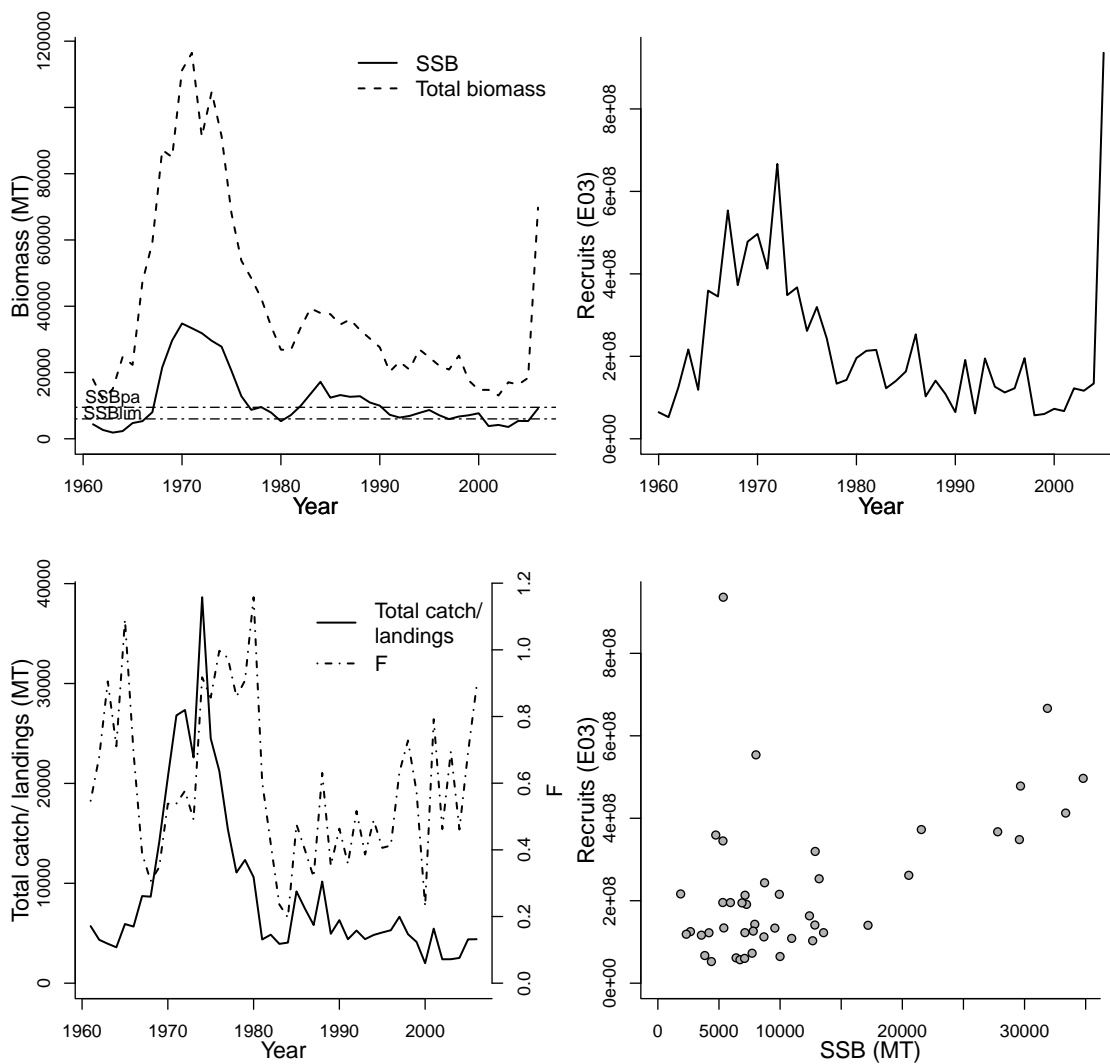
General assessment details.

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	1960-2006
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-26
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-29

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

			primary LME	secondary LME	tertiary LME
			24 - Celtic-Biscay Shelf	na	na
Parameter	Value	Units			
SSB-AGE-yr	AVAILABLE	yr			
REC-AGE-yr	1	yr	Reference points		
F-AGE-yr-yr	2 to 6	yr-yr	Parameter	Value	Units
TB-AGE-yr	1+	yr	SSBlim-MT (SSB)	6000	MT
A50-yr	AVAILABLE	yr	SSBpa-MT (SSB)	9500	MT
M-1/T	AVAILABLE	1/T	SSB_{2006}/SSB_{lim}	1.519	
SSB-SEX-sex					
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1961	1960	1961	1961	1961
Maximum year	2006	2005	2006	2006	2006
Time series minimum	1866	52490000	0.1966	11871	2002
Time series maximum	34796	936160000	1.1579	116486	38640
Units	MT	E03	1/T	MT	MT



Assessment of Western Baltic atlantic cod (*Gadus morhua*)

Assessment ID:WGBFAS-CODBA2224-1969-2007-JENNINGS
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/26>

Area ID: multinational-ICES-22-24

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1969-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	2010-03-10
QA/QC complete	YES
Date approved	2009-05-27

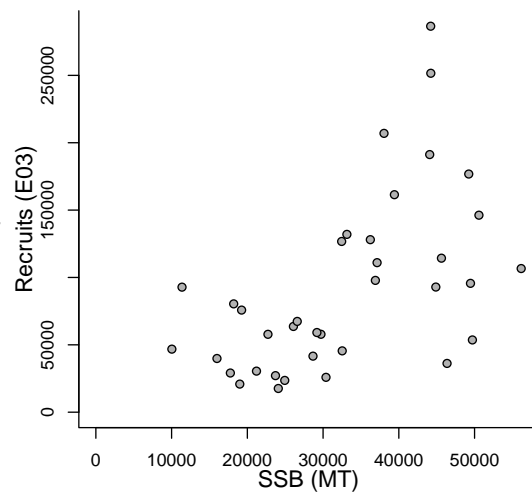
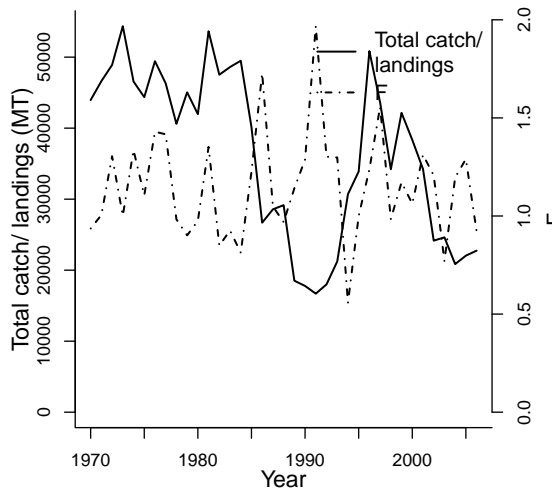
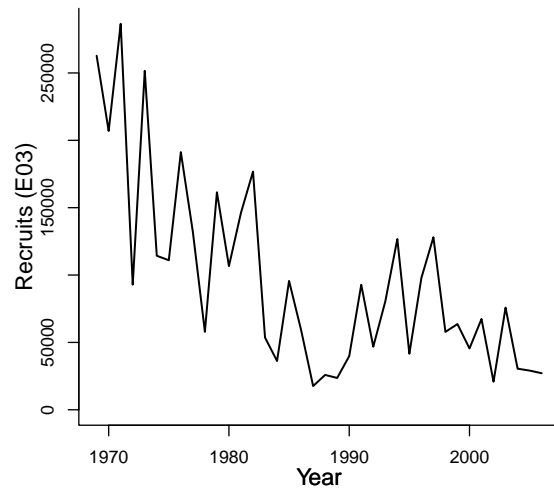
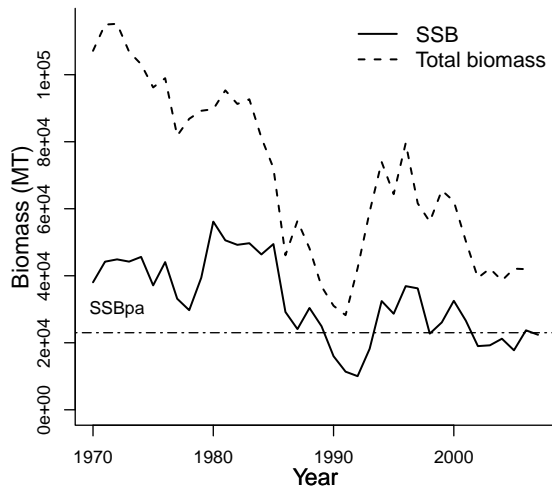
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

	primary LME	secondary LME	tertiary LME
	23 - Baltic Sea	na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	
F-AGE-yr-yr	3 to 6	yr-yr	
TB-AGE-yr	1+	yr	
A50-yr	AVAILABLE	yr	
M-1/T	AVAILABLE	1/T	
SSB-SEX-sex			
M			
L50-cm			

Reference points		
Parameter	Value	Units
SSBpa-MT (SSB)	23000	MT

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1970	1969	1970	1970	1970
Maximum year	2007	2006	2006	2006	2006
Time series minimum	10034	17605	0.5573	28235	16693
Time series maximum	56154	286485	1.9674	115194	54357
Units	MT	E03	1/T	MT	MT



Assessment of Eastern Baltic atlantic cod (*Gadus morhua*)

Assessment ID:WGBFAS-CODBA2532-1964-2007-JENNINGS
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/27>

Area ID: multinational-ICES-25-32

General assessment details.

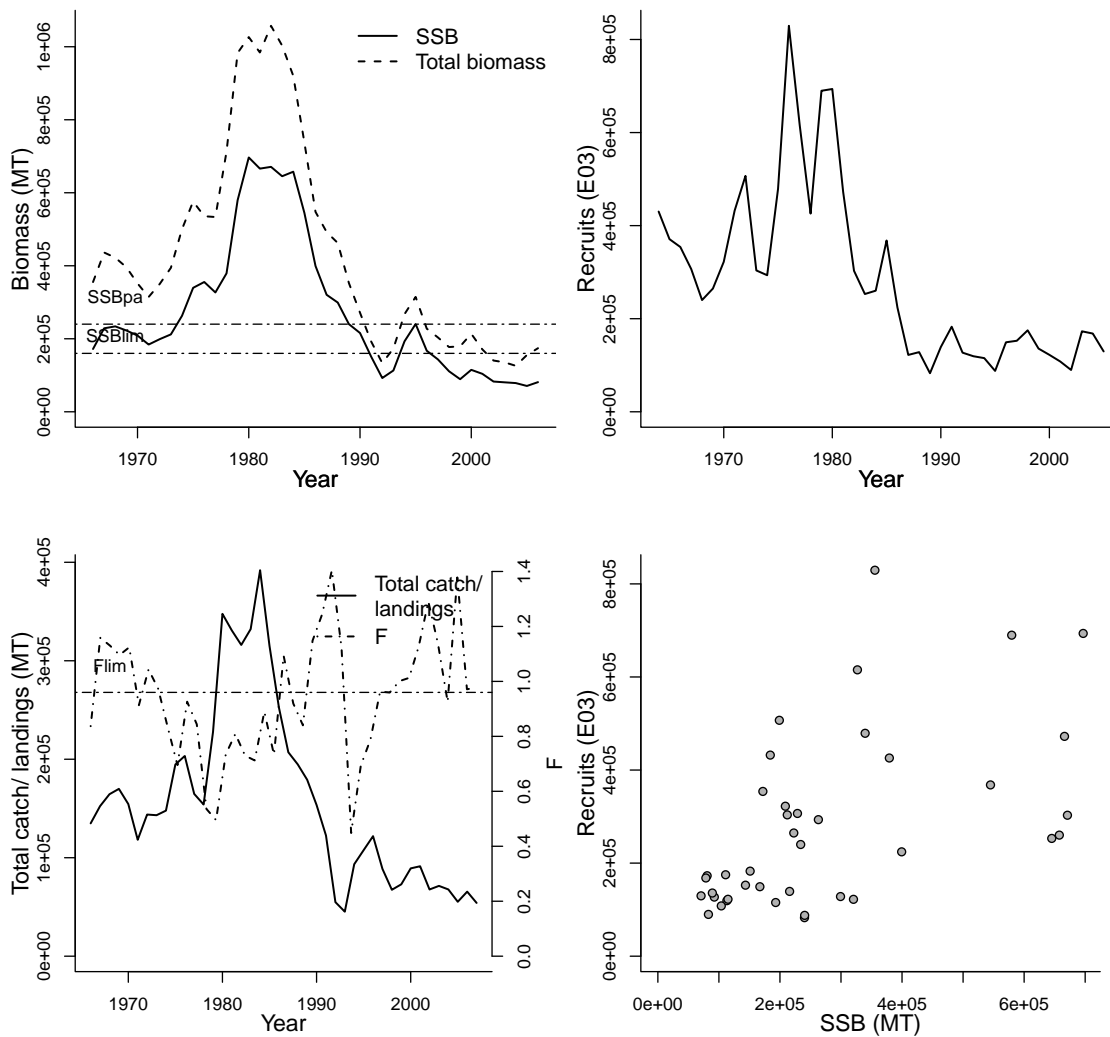
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1964-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	2010-03-10
QA/QC complete	YES
Date approved	2009-05-27

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

	primary LME	secondary LME	tertiary LME
	23 - Baltic Sea	na	na

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr	Flim-1/T (F)	0.96	1/T
REC-AGE-yr	2	yr	Fpa-1/T (F)	0.6	1/T
F-AGE-yr-yr	4 to 7	yr-yr	SSBlim-MT (SSB)	160000	MT
TB-AGE-yr	2+	yr	SSBpa-MT (SSB)	240000	MT
A50-yr	AVAILABLE	yr	SSB_{2006}/SSB_{lim}	0.507	
M-1/T	0.2	1/T	F_{2006}/F_{lim}	1.018	
SSB-SEX-sex					
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1966	1964	1966	1966	1966
Maximum year	2006	2005	2006	2006	2007
Time series minimum	70762	82818	0.4482	125877	45188
Time series maximum	696743	829398	1.4046	1057368	391952
Units	MT	E03	1/T	MT	MT



Assessment of Eastern Baltic herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERR2532-1973-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/29>

Area ID: multinational-ICES-25-32

General assessment details.

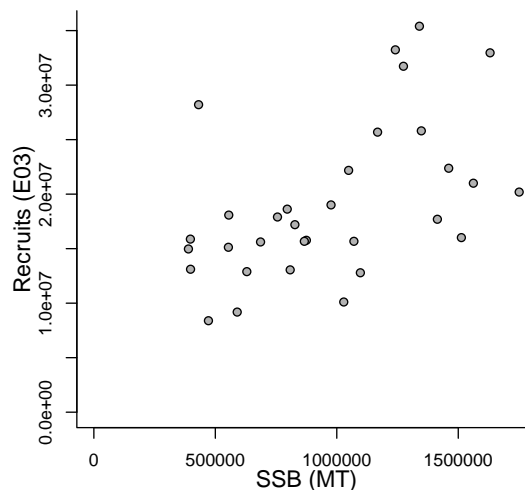
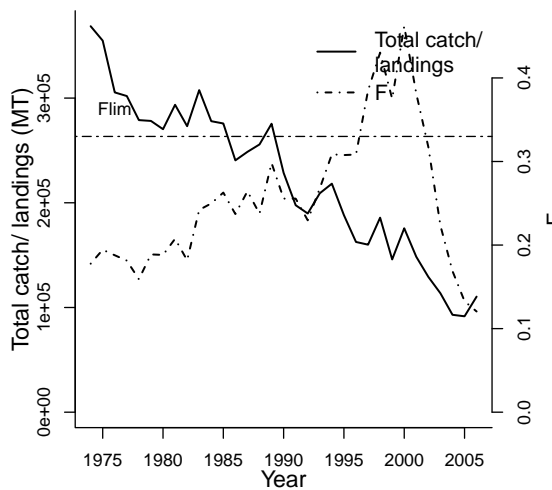
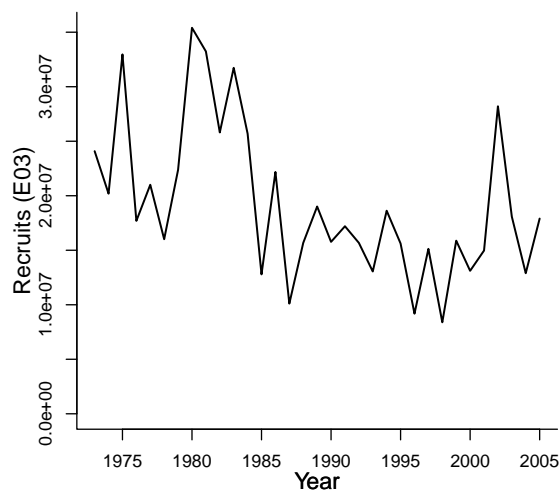
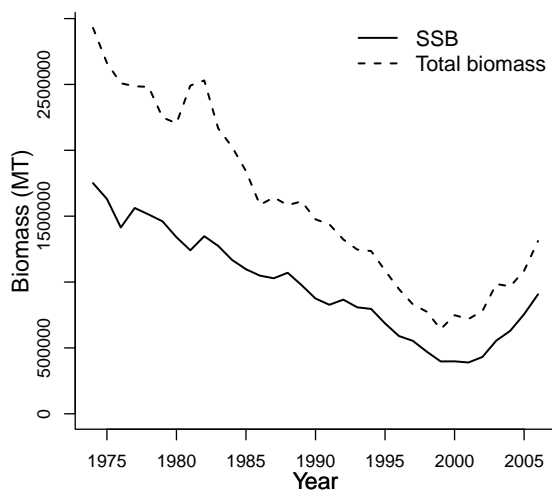
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1973-2006
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2009-06-01
QA/QC complete	YES
Date approved	2009-05-28

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

	primary LME	secondary LME	tertiary LME
	23 - Baltic Sea	na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	
F-AGE-yr-yr	3 to 6	yr-yr	
TB-AGE-yr	1+	yr	
A50-yr	AVAILABLE	yr	
M-1/T	AVAILABLE	1/T	
SSB-SEX-sex			
M			
L50-cm			

Reference points		
Parameter	Value	Units
F _{lim} -1/T (F)	0.33	1/T
F _{pa} -1/T (F)	0.17	1/T
F ₂₀₀₆ /F _{lim}	0.365	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1974	1973	1974	1974	1974
Maximum year	2006	2005	2006	2006	2006
Time series minimum	389316	8391585	0.1205	642453	91592
Time series maximum	1750785	35403764	0.4619	2929887	368652
Units	MT	E03	1/T	MT	MT



Assessment of Bothnian Sea herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERR30-1972-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/30>

Area ID: multinational-ICES-30

General assessment details.

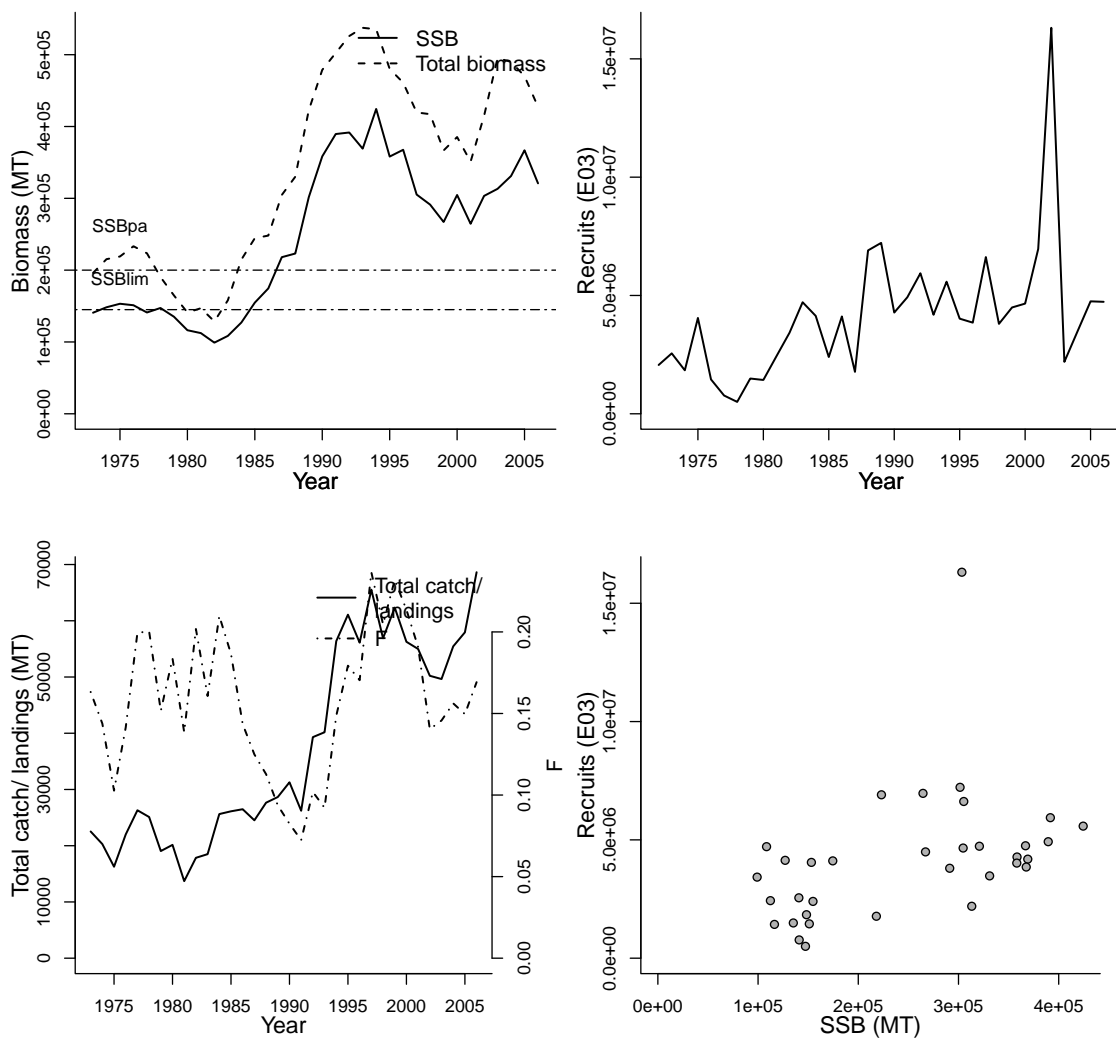
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1972-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	2010-03-10
QA/QC complete	YES
Date approved	2009-05-28

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

	primary LME	secondary LME	tertiary LME
	23 - Baltic Sea	na	na

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr	Flim-1/T (F)	0.3	1/T
REC-AGE-yr	1	yr	Fpa-1/T (F)	0.21	1/T
F-AGE-yr-yr	3 to 7	yr-yr	SSBlim-MT (SSB)	145000	MT
TB-AGE-yr	1+	yr	SSBpa-MT (SSB)	200000	MT
A50-yr	AVAILABLE	yr	SSB_{2006}/SSB_{lim}	2.213	
M-1/T	0.2	1/T	F_{2006}/F_{lim}	0.564	
SSB-SEX-sex					
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1972	1973	1973	1973
Maximum year	2006	2006	2006	2006	2006
Time series minimum	99048	501629	0.0724	128629	13700
Time series maximum	424424	16311979	0.2366	537441	68635
Units	MT	E03	1/T	MT	MT



Assessment of Bothnian Bay herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERR31-1979-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/31>

Area ID: multinational-ICES-31

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1979-2006
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	2009-06-01
QA/QC complete	YES
Date approved	2009-05-28

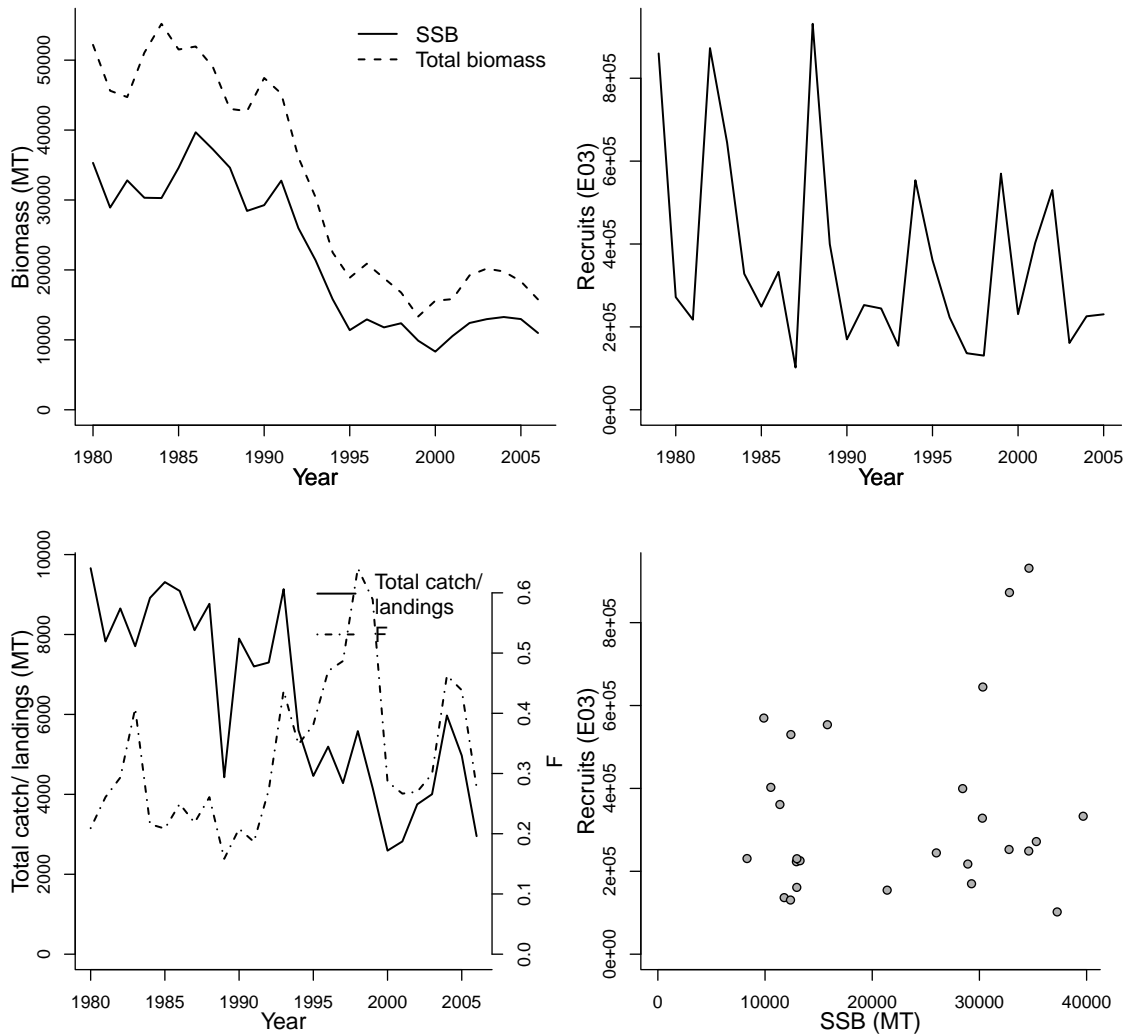
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

	primary LME	secondary LME	tertiary LME
	23 - Baltic Sea	na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	
F-AGE-yr-yr	3 to 7	yr-yr	
TB-AGE-yr	1+	yr	
A50-yr	AVAILABLE	yr	
M-1/T	0.15	1/T	
SSB-SEX-sex			
M			
L50-cm			

Reference points		
Parameter	Value	Units

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	8318	102001	0.1584	13338	2592
Time series maximum	39680	931324	0.6409	55196	9659
Units	MT	E03	1/T	MT	MT



Assessment of Iceland Grounds herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERRIsu-1983-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/47>

Area ID: multinational-ICES-Va

General assessment details.

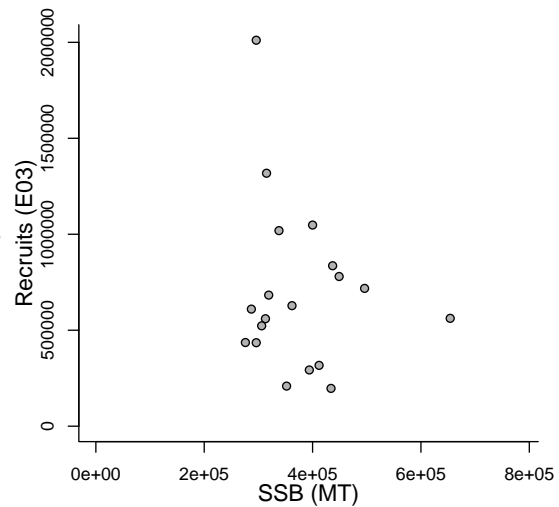
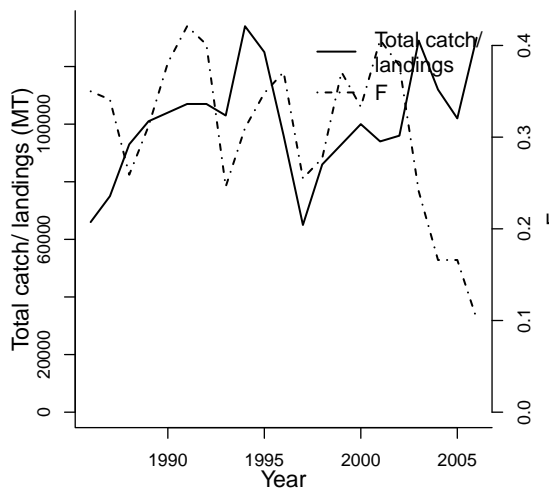
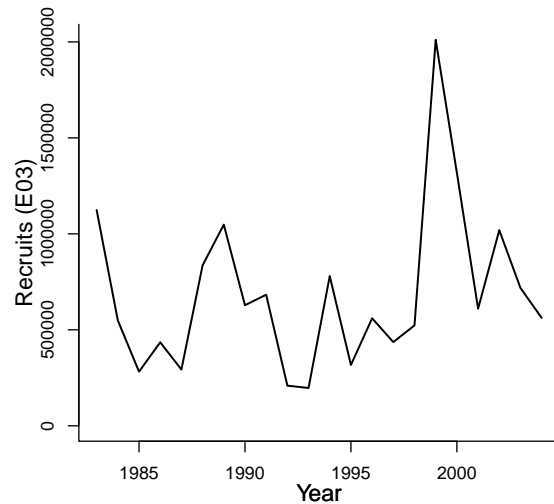
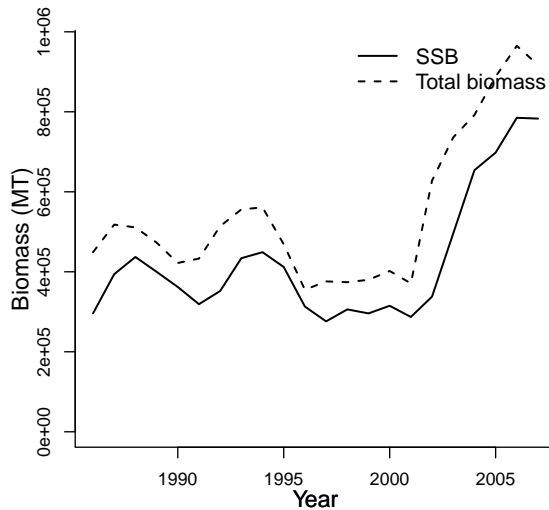
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	VPA/ADPAT version 2.3.2 NOAA Fisheries
Publication year	2007
Timeseries span	1983-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-25
Date last loaded	2009-06-01
QA/QC complete	YES
Date approved	2009-05-28

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

	primary LME	secondary LME	tertiary LME
	59 - Iceland Shelf	na	na
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	3	yr	
F-AGE-yr-yr	5 to 10	yr-yr	
TB-AGE-yr	3+	yr	
A50-yr	AVAILABLE	yr	
M-1/T	0.1	1/T	
SSB-SEX-sex			
M			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1986	1983	1986	1986	1986
Maximum year	2007	2004	2006	2007	2006
Time series minimum	276000	197000	0.102	355000	65000
Time series maximum	785000	2011000	0.421	965000	134000
Units	MT	E03	1/T	MT	MT



Assessment of Gulf of Riga East of Gotland herring (*Clupea harengus*)

Assessment ID:WGBFAS-HERRIGA-1976-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/32>

Area ID: multinational-ICES-28

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1976-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-03-10
QA/QC complete	YES
Date approved	2009-05-28

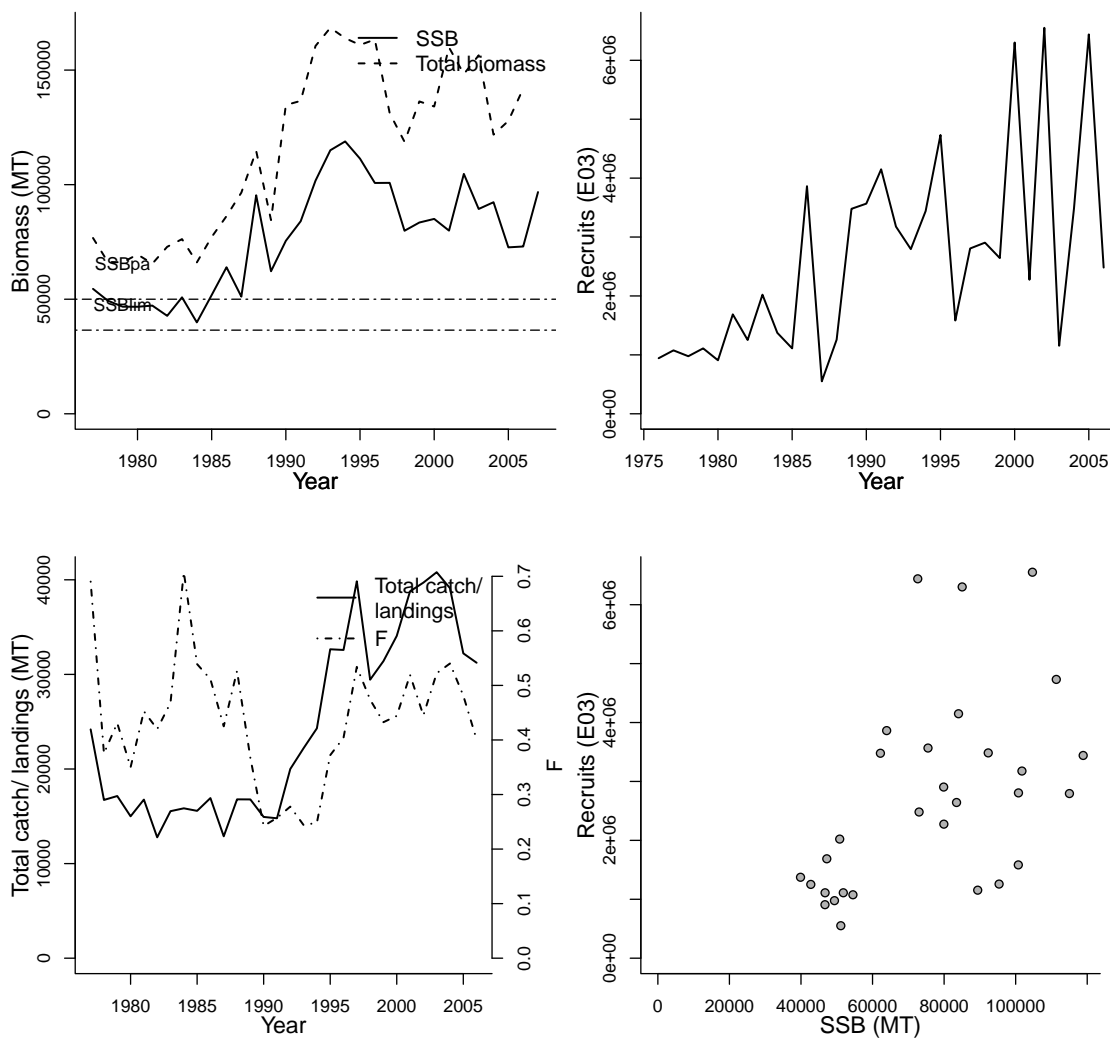
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

	primary LME	secondary LME	tertiary LME
	23 - Baltic Sea	na	na

Parameter	Value	Units
SSB-AGE-yr	1.5	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	3 to 7	yr-yr
TB-AGE-yr	1+	yr
A50-yr	1.5	yr
M-1/T	AVAILABLE	1/T
SSB-SEX-sex		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fpa-1/T (F)	0.4	1/T
SSBlim-MT (SSB)	36500	MT
SSBpa-MT (SSB)	50000	MT
SSB_{2007}/SSB_{lim}	2.651	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1976	1977	1977	1977
Maximum year	2007	2006	2006	2006	2006
Time series minimum	39874	551371	0.2423	65521	12777
Time series maximum	118870	6551573	0.7075	168458	40803
Units	MT	E03	1/T	MT	MT



Assessment of Kattegat and Skagerrak common european sole (*Solea vulgaris*)

Assessment ID:WGBFAS-SOLEIIIa-1982-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/80>

Area ID: multinational-ICES-IIIa

General assessment details.

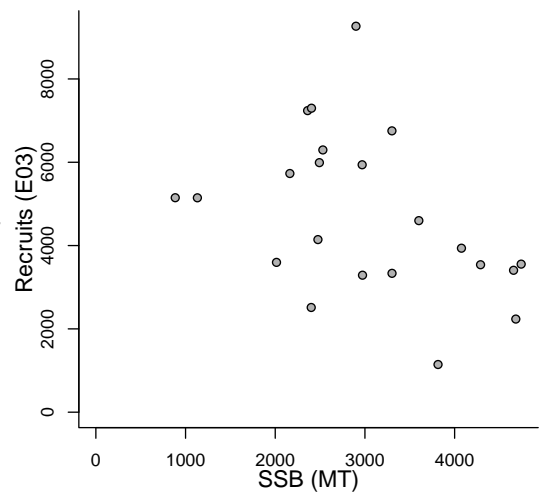
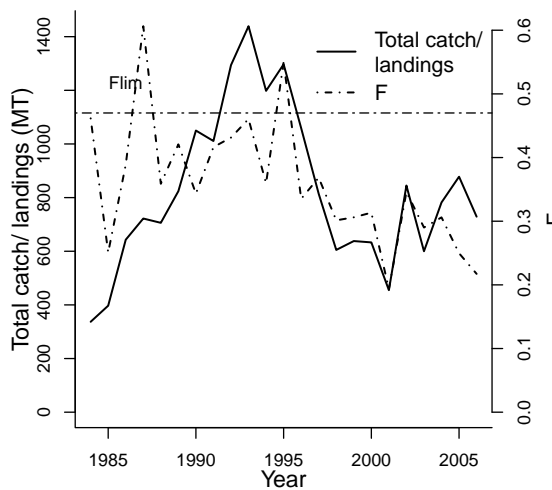
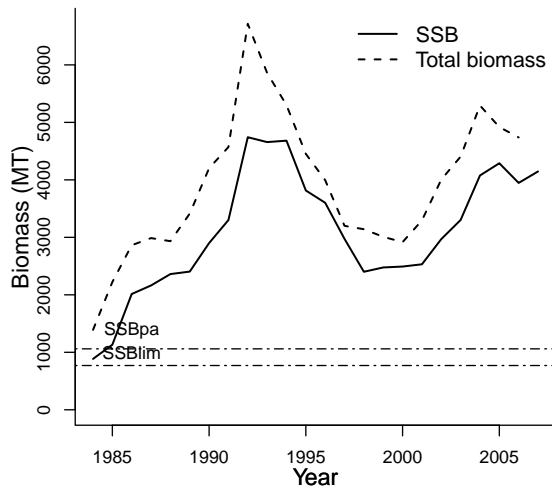
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-27
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-29

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

			Parameter	Value	Units
primary LME	secondary LME	tertiary LME	SSB-AGE-yr	3	yr
			REC-AGE-yr	2	yr
			F-AGE-yr-yr	4 to 8	yr-yr
			TB-AGE-yr	2+	yr
			A50-yr	3	yr
			M-1/T	0.1	1/T
			SSB-SEX-sex		
			M		
			L50-cm		
22 - North Sea	na	na			

Reference points		
Parameter	Value	Units
Flim-1/T (F)	0.47	1/T
Fpa-1/T (F)	0.3	1/T
SSBlim-MT (SSB)	770	MT
SSBpa-MT (SSB)	1060	MT
SSB_{2007}/SSB_{lim}	5.384	
F_{2006}/F_{lim}	0.462	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1984	1982	1984	1984	1984
Maximum year	2007	2005	2006	2006	2006
Time series minimum	885	1145	0.1935	1390	337
Time series maximum	4742	9266	0.6063	6715	1439
Units	MT	E03	1/T	MT	MT



Assessment of Baltic Areas 22-32 sprat (*Sprattus sprattus*)

Assessment ID:WGBFAS-SPRAT22-32-1973-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/35>

Area ID: multinational-ICES-22-32

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1973-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-19
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-28

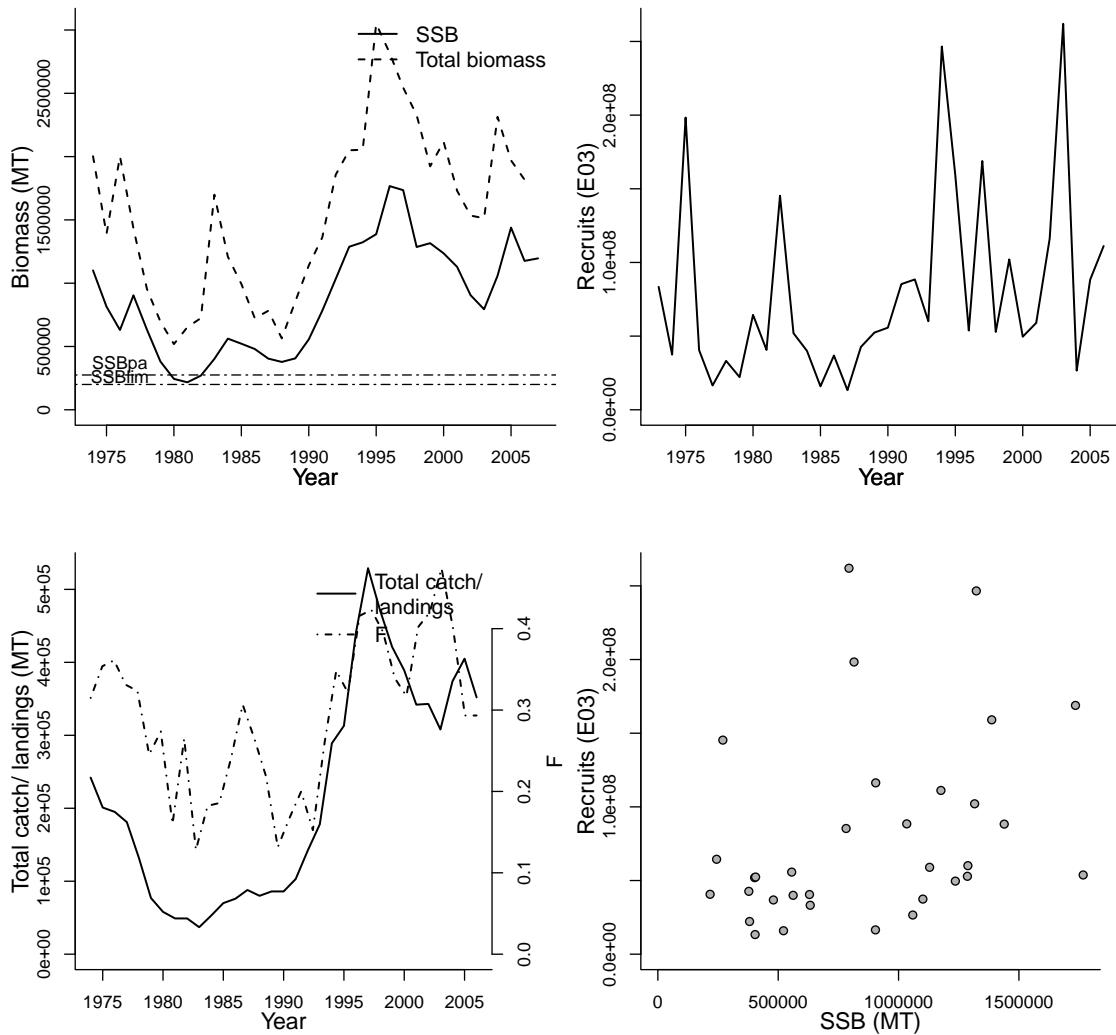
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

	primary LME	secondary LME	tertiary LME
	23 - Baltic Sea	na	na

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	3 to 5	yr-yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	AVAILABLE	1/T
SSB-SEX-sex		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fpa-1/T (F)	0.4	1/T
SSBlim-MT (SSB)	200000	MT
SSBpa-MT (SSB)	275000	MT
SSB_{2007}/SSB_{lim}	5.980	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1974	1973	1974	1974	1974
Maximum year	2007	2006	2007	2006	2006
Time series minimum	217000	13334000	0.1281	519000	37000
Time series maximum	1767000	261984000	0.4743	3049000	529000
Units	MT	E03	1/T	MT	MT



Assessment of VIIIc-IXa fourspotted megrim (*Lepidorhombus boscii*)

Assessment ID: WGHMM-FMEG8c9a-1986-2006-JENNINGS
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/49>

Area ID: multinational-ICES-VIIIc-IXa

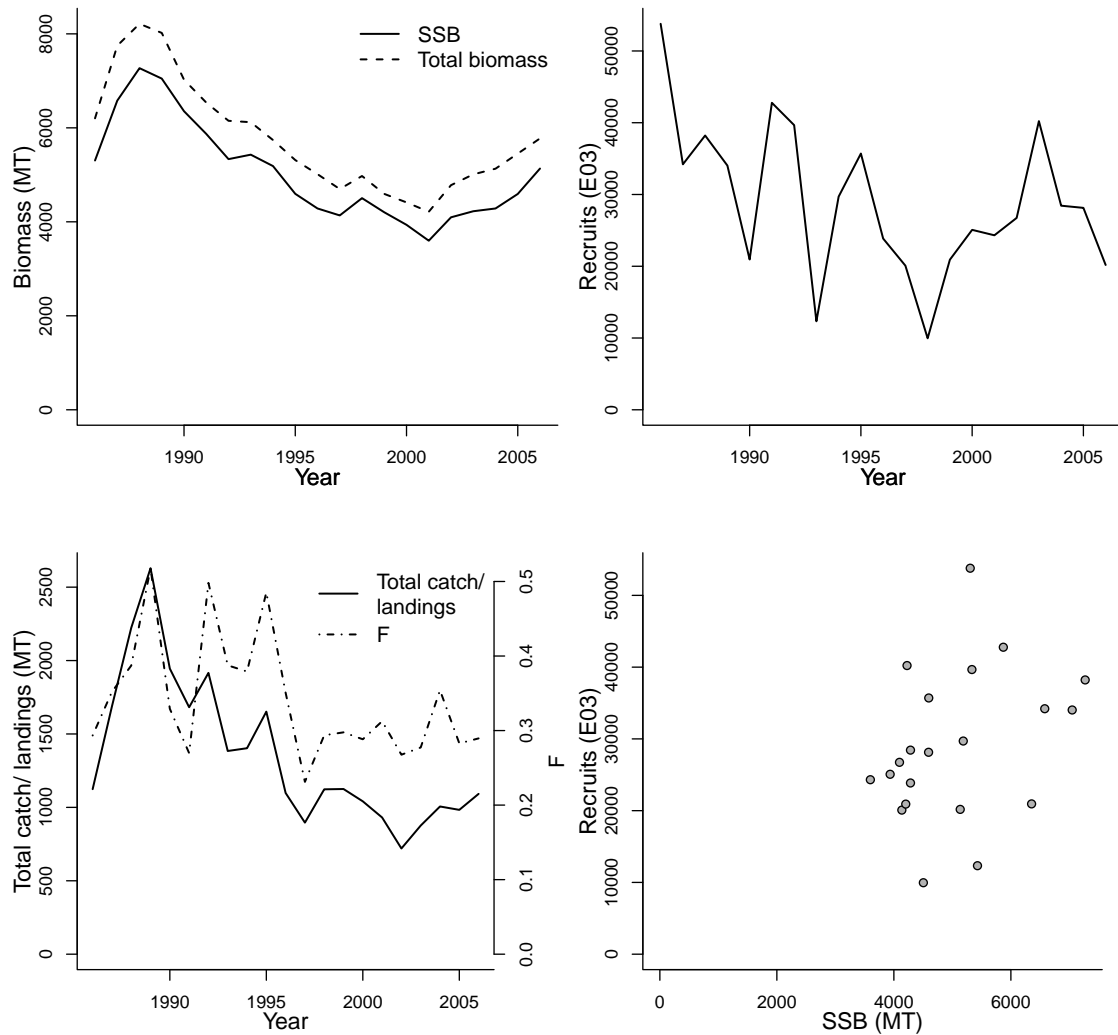
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrim
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1986-2006
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-24
Date last loaded	2009-06-01
QA/QC complete	YES
Date approved	2009-05-28

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

		primary LME	secondary LME	tertiary LME
		25 - Iberian Coastal	na	na
Parameter	Value	Units		
SSB-AGE-yr	AVAILABLE	yr		
REC-AGE-yr	0	yr		
F-AGE-yr-yr	2 to 4	yr-yr		
TB-AGE-yr	0+	yr	Reference points	
A50-yr	AVAILABLE	yr	Parameter	Value
M-1/T	0.2	1/T	Units	
SSB-SEX-sex				
M				
L50-cm				

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1986	1986	1986	1986	1986
Maximum year	2006	2006	2006	2006	2006
Time series minimum	3598	9961	0.2312	4214	720
Time series maximum	7270	53785	0.5178	8214	2629
Units	MT	E03	1/T	MT	MT



Assessment of IIIa-IV-VI-VII-VIIIabd hake (*Merluccius merluccius*)

Assessment ID: WGHMM-HAKENRTN-1977-2007-JENNINGS
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/33>

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

General assessment details.

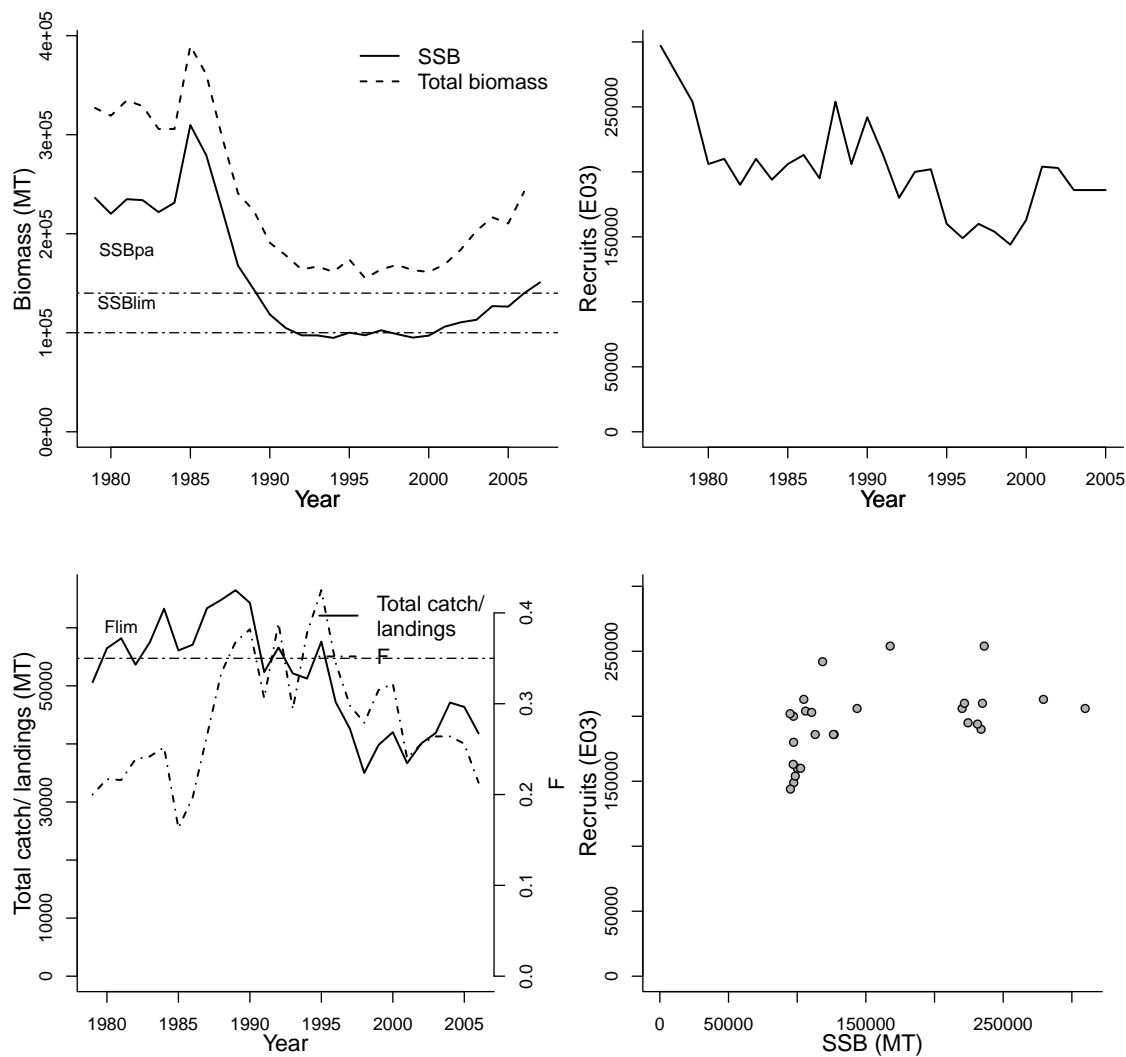
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrin
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1977-2007
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-20
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME			secondary LME	tertiary LME	
24 - Celtic-Biscay Shelf			22 - North Sea	na	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr	Flim-1/T (F)	0.35	1/T
REC-AGE-yr	0	yr	Fpa-1/T (F)	0.25	1/T
F-AGE-yr-yr	2 to 6	yr-yr	SSBlim-MT (SSB)	100000	MT
TB-AGE-yr	0+	yr	SSBpa-MT (SSB)	140000	MT
A50-yr	AVAILABLE	yr	SSB_{2007}/SSB_{lim}	1.509	
M-1/T	0.2	1/T	F_{2006}/F_{lim}	0.609	
SSB-SEX-sex					
M					
L50-cm					

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1979	1977	1979	1979	1979
Maximum year	2007	2005	2006	2006	2006
Time series minimum	94800	144000	0.163	154969	35010
Time series maximum	309700	297000	0.425	389774	66472
Units	MT	E03	1/T	MT	MT



Assessment of VIIIc-IXa hake (*Merluccius merluccius*)

Assessment ID: WGHMM-HAKESOTH-1982-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/34>

Area ID: multinational-ICES-VIIIc-IXa

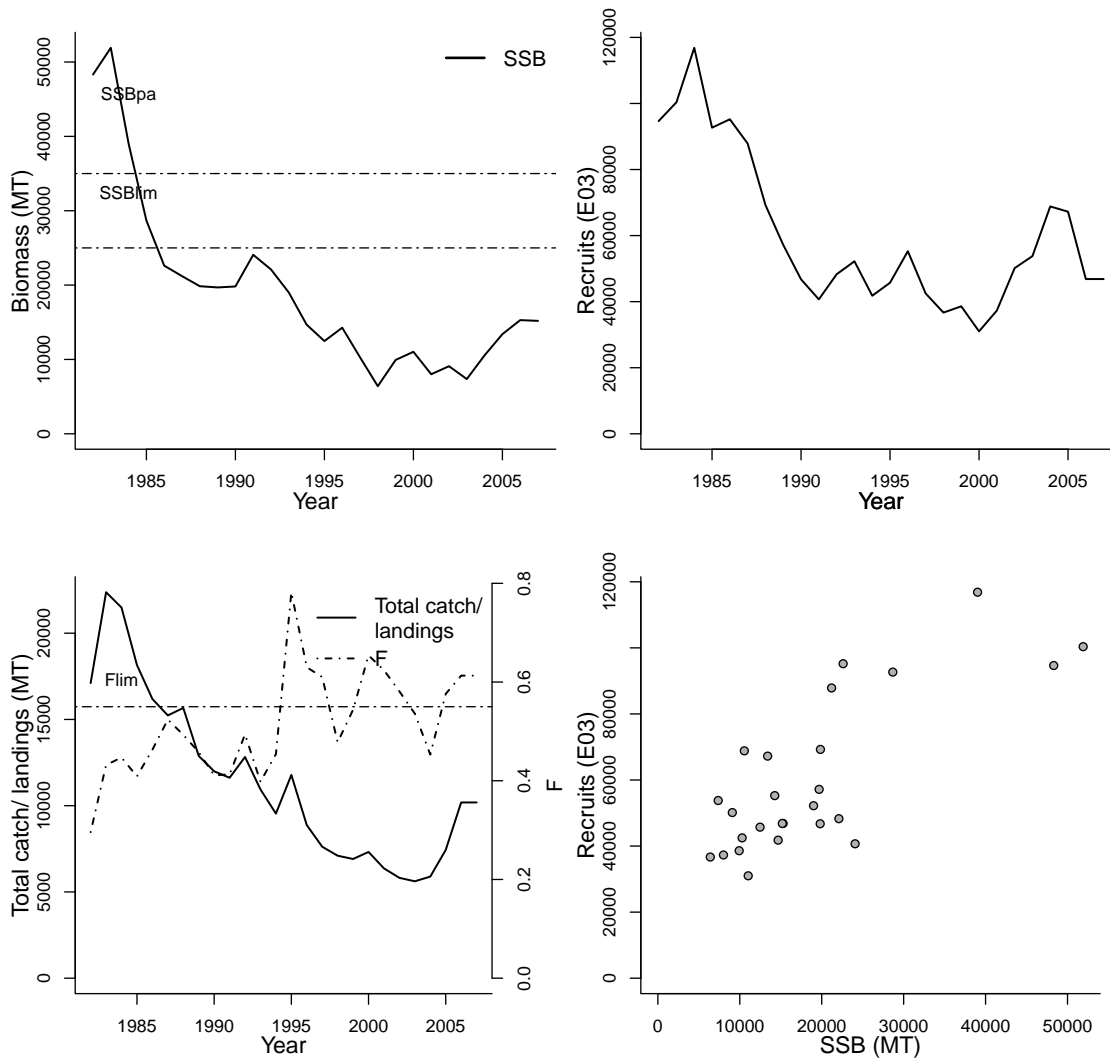
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrin
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2007
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME			secondary LME		tertiary LME	
25 - Iberian Coastal			na		na	
Parameter	Value	Units				
SSB-AGE-yr	AVAILABLE	yr	Reference points			
REC-AGE-yr	0	yr	Parameter	Value	Units	
F-AGE-yr-yr	2 to 5	yr-yr	Flim-1/T (F)	0.55	1/T	
TB-AGE-yr	0+	yr	Fpa-1/T (F)	0.44	1/T	
A50-yr	AVAILABLE	yr	SSBlim-MT (SSB)	25000	MT	
M-1/T	0.2	1/T	SSBpa-MT (SSB)	35000	MT	
SSB-SEX-sex			SSB_{2007}/SSB_{lim}	0.608		
M			F_{2007}/F_{lim}	1.115		
L50-cm						

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1982	1982	1982		1982
Maximum year	2007	2007	2007		2007
Time series minimum	6401	31003	0.296		5617
Time series maximum	51913	116850	0.782		22376
Units	MT	E03	1/T	MT	MT



Assessment of VIIIc-IXa megrim (*Lepidorhombus whiffiagonis*)

Assessment ID: WGHMM-MEG8c9a-1985-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/50>

Area ID: multinational-ICES-VIIIc-IXa

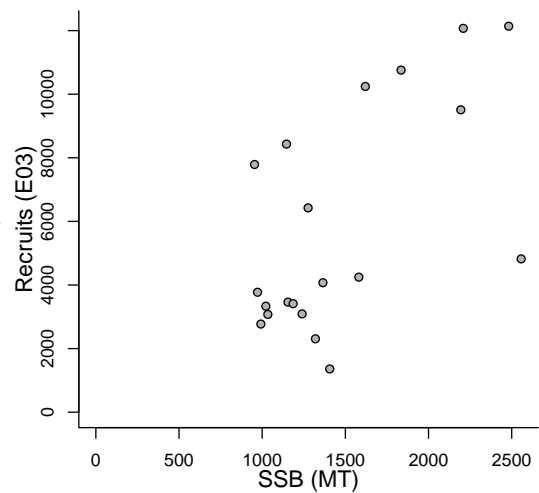
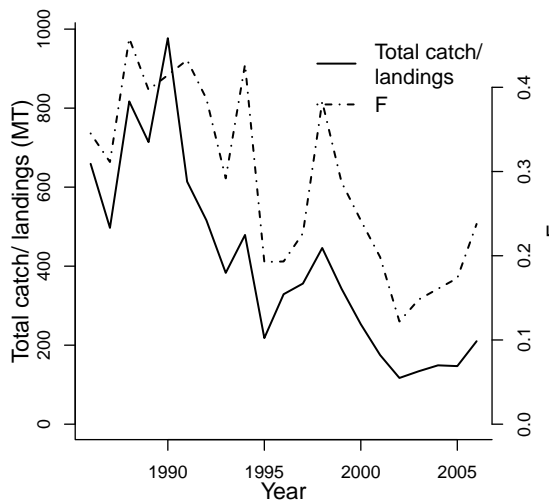
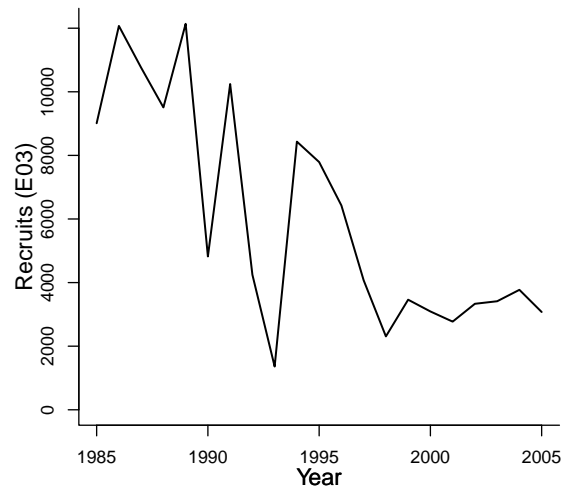
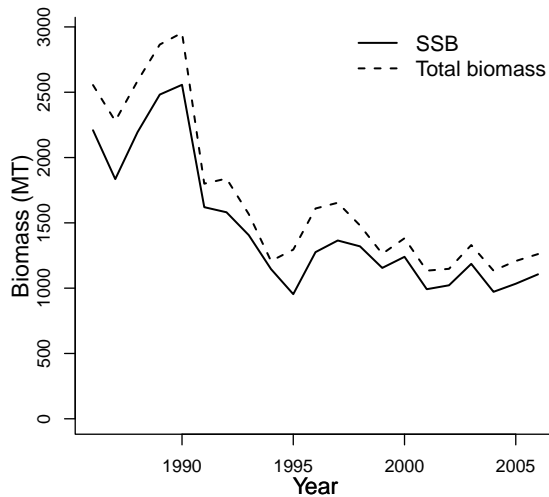
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrim
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1985-2007
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-24
Date last loaded	2009-06-01
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME		secondary LME	tertiary LME					
25 - Iberian Coastal		na	na					
Parameter	Value	Units						
SSB-AGE-yr	AVAILABLE	yr	<div>Reference points</div> <table><tr><th>Parameter</th><th>Value</th><th>Units</th></tr></table>			Parameter	Value	Units
Parameter	Value	Units						
REC-AGE-yr	1	yr						
F-AGE-yr-yr	2 to 4	yr-yr						
TB-AGE-yr	1+	yr						
A50-yr	AVAILABLE	yr						
M-1/T	0.2	1/T						
SSB-SEX-sex								
M								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1986	1985	1986	1986	1986
Maximum year	2006	2005	2006	2006	2006
Time series minimum	954	1360	0.1219	1134	117
Time series maximum	2557	12138	0.4583	2955	977
Units	MT	E03	1/T	MT	MT



Assessment of Bay of Biscay common european sole (*Solea vulgaris*)

Assessment ID: WGHMM-SOLEVIII-1982-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/54>

Area ID: multinational-ICES-VIII

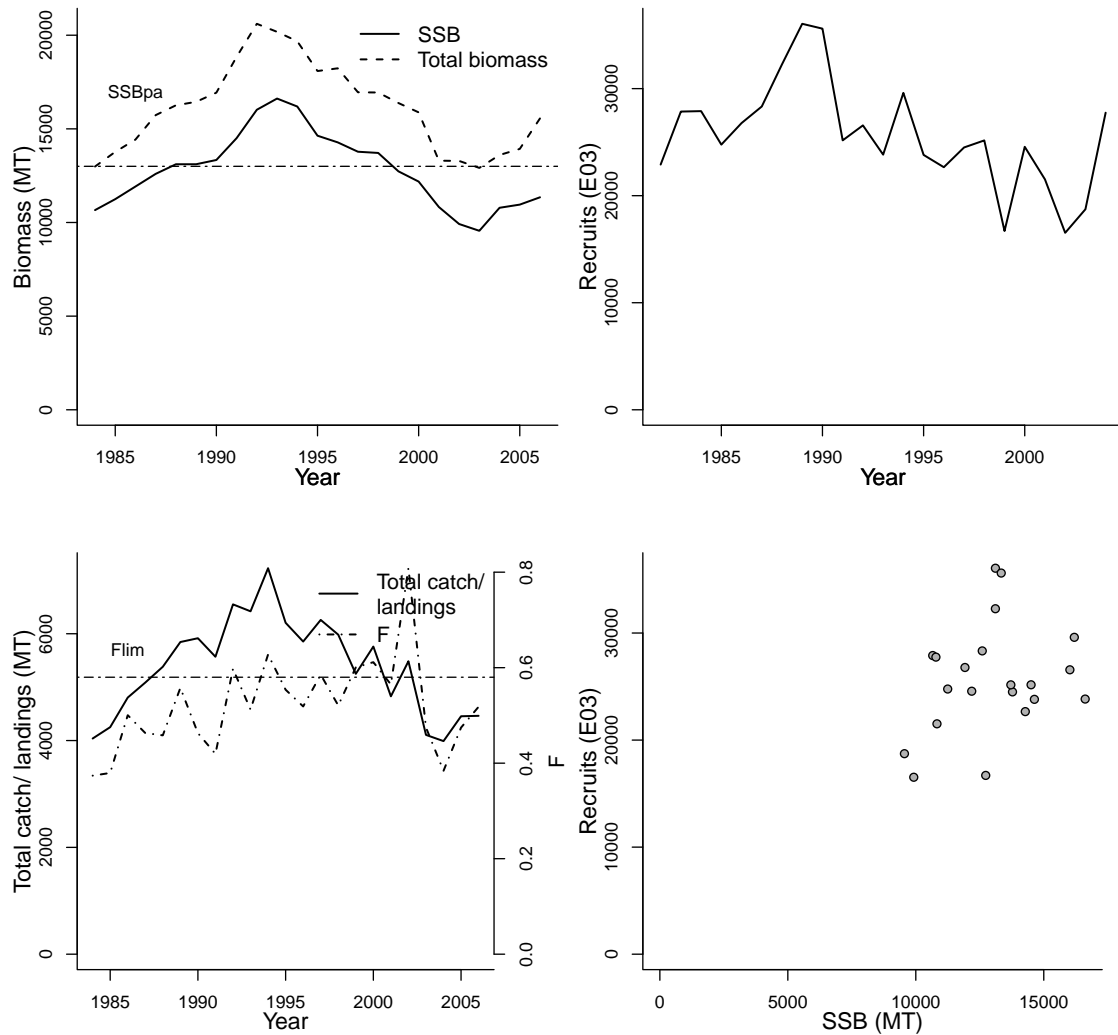
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrim
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2006
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-23
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME			secondary LME		tertiary LME
24 - Celtic-Biscay Shelf			25 - Iberian Coastal		na
Parameter	Value	Units			
SSB-AGE-yr	AVAILABLE	yr	Reference points		
REC-AGE-yr	2	yr			
F-AGE-yr-yr	3 to 6	yr-yr	Parameter	Value	Units
TB-AGE-yr	2+	yr	Flim-1/T (F)	0.58	1/T
A50-yr	AVAILABLE	yr	Fpa-1/T (F)	0.42	1/T
M-1/T	0.1	1/T	SSBpa-MT (SSB)	13000	MT
SSB-SEX-sex			F_{2006}/F_{lim}	0.893	
M					
L50-cm					

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	9556	16530	0.3739	12915	3990
Time series maximum	16618	36055	0.8083	20609	7227
Units	MT	E03	1/T	MT	MT



Assessment of Bay of Biscay anchovy (*Engraulis encrasicolus*)

Assessment ID:WGMHSA-ANCHOBAYB-1986-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/44>

Area ID: multinational-ICES-VIII

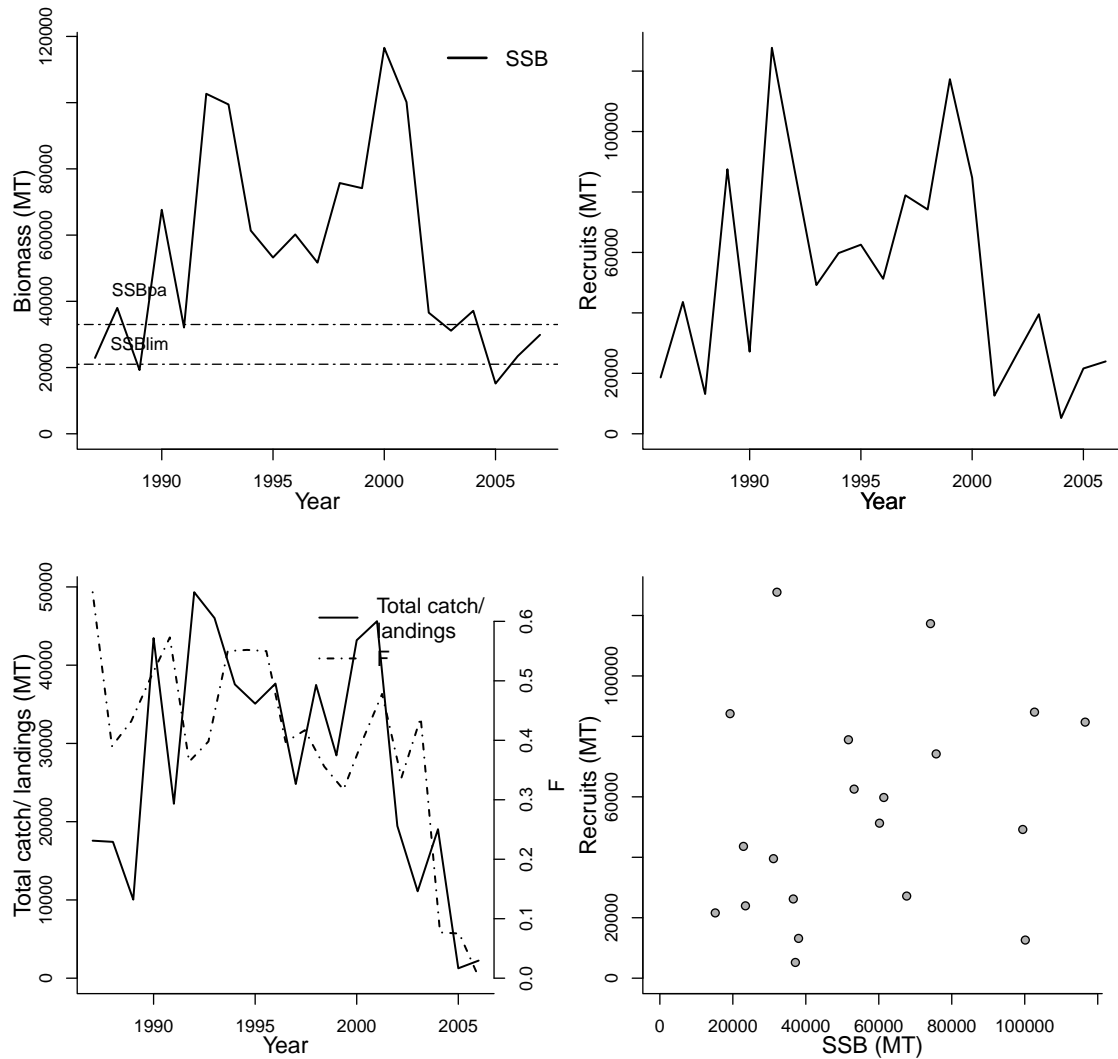
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Mackerel
Assessment authors	Anon
Assessment method	Bayesian Biomass Model
Publication year	2007
Timeseries span	1986-2007
Document	ICES-WGMHSA007.pdf (pdf not in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME			secondary LME			tertiary LME		
24 - Celtic-Biscay Shelf			25 - Iberian Coastal			na		
Parameter	Value	Units						
SSB-AGE-yr	1	yr	Reference points					
REC-AGE-yr	1	yr						
F-AGE-yr-yr	1 to 2	yr-yr	Parameter	Value	Units			
TB-AGE-yr	1+	yr	Fpa-1/T (F)	1.1	1/T			
A50-yr	1	yr	SSBlim-MT (SSB)	21000	MT			
M-1/T	1.2	1/T	SSBpa-MT (SSB)	33000	MT			
SSB-SEX-sex			SSB_{2007}/SSB_{lim}	1.423				
M								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1987	1986	1987		1987
Maximum year	2007	2006	2007		2006
Time series minimum	15177	5211	0.002		1264
Time series maximum	116561	127703	0.649		49325
Units	MT	MT	1/T		MT



Assessment of IIa-IIIabd-IV-Vb-VI-VII-VIIIabcde-XII-XIV-Ixa mackerel (*Scomber scombrus*)

Assessment ID:WGMHSA-MACKNEICES-1972-2007-JENNINGS
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/48>

Area ID:

multinational-ICES-IIa-IIIabd-IV-Vb-VI-VII-VIIIabcde-XII-XIV-Ixa

General assessment details.

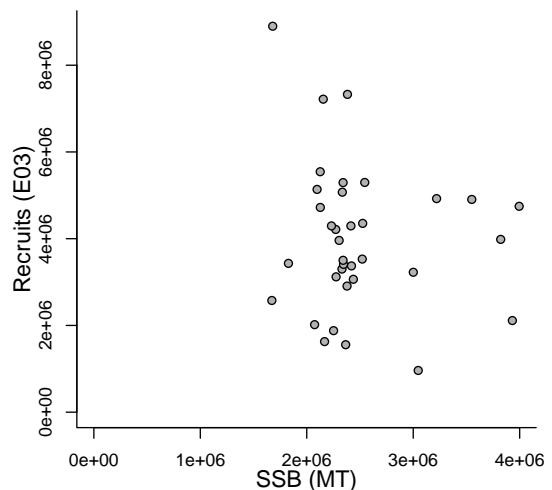
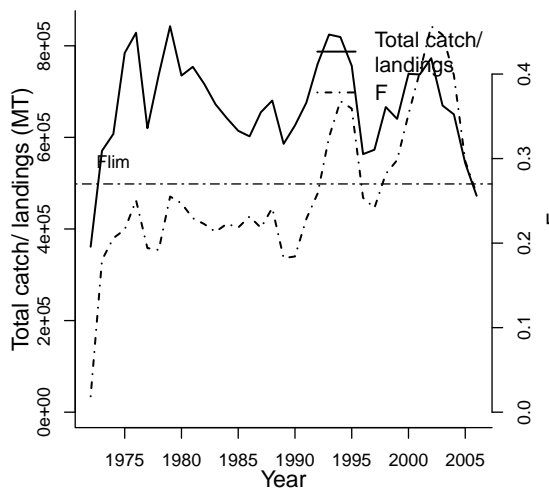
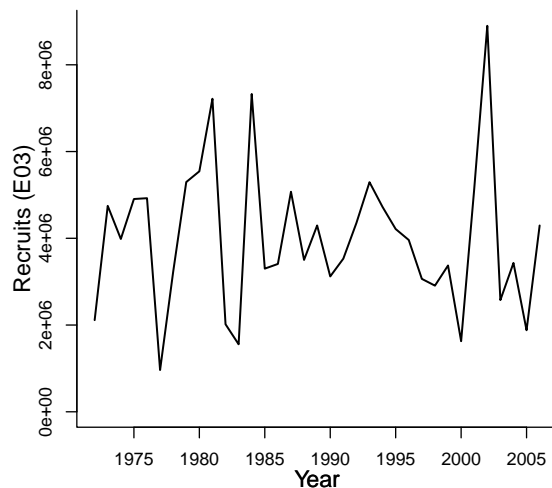
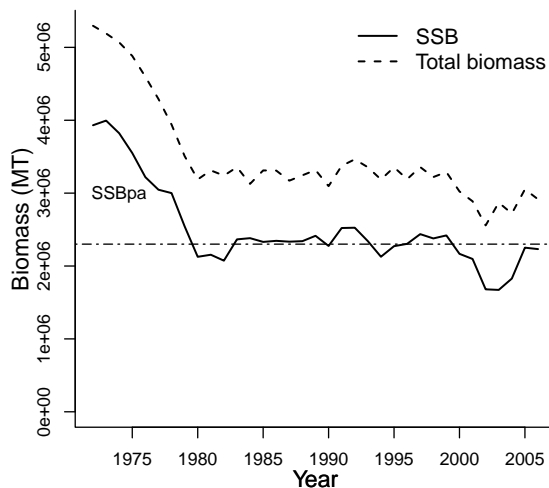
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Mackerel
Assessment authors	Anon
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1972-2007
Document	ICES-WGMHSA07.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-28

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

	primary LME	secondary LME	tertiary LME
	24 - Celtic-Biscay Shelf	25 - Iberian Coastal	22 - North Sea
Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	0	yr	
F-AGE-yr-yr	4 to 8	yr-yr	
TB-AGE-yr	0+	yr	
A50-yr	AVAILABLE	yr	
M-1/T	0.15	1/T	
SSB-SEX-sex			
M			
L50-cm			

Reference points		
Parameter	Value	Units
Flim-1/T (F)	0.27	1/T
Fpa-1/T (F)	0.17	1/T
SSBpa-MT (SSB)	2300000	MT
F_{2006}/F_{lim}	0.957	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2006	2006	2006	2006	2006
Time series minimum	1672164	962290	0.0188	2556921	361262
Time series maximum	3995311	8899180	0.4566	5295849	842739
Units	MT	E03	1/T	MT	MT



Assessment of VIIIc-IXa european pilchard (*Sardina pilchardus*)

Assessment ID:WGMHSA-SARDPVIIIc-IXa-1978-2007-JENNINGS
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/53>

Area ID: multinational-ICES-VIIIc-IXa

General assessment details.

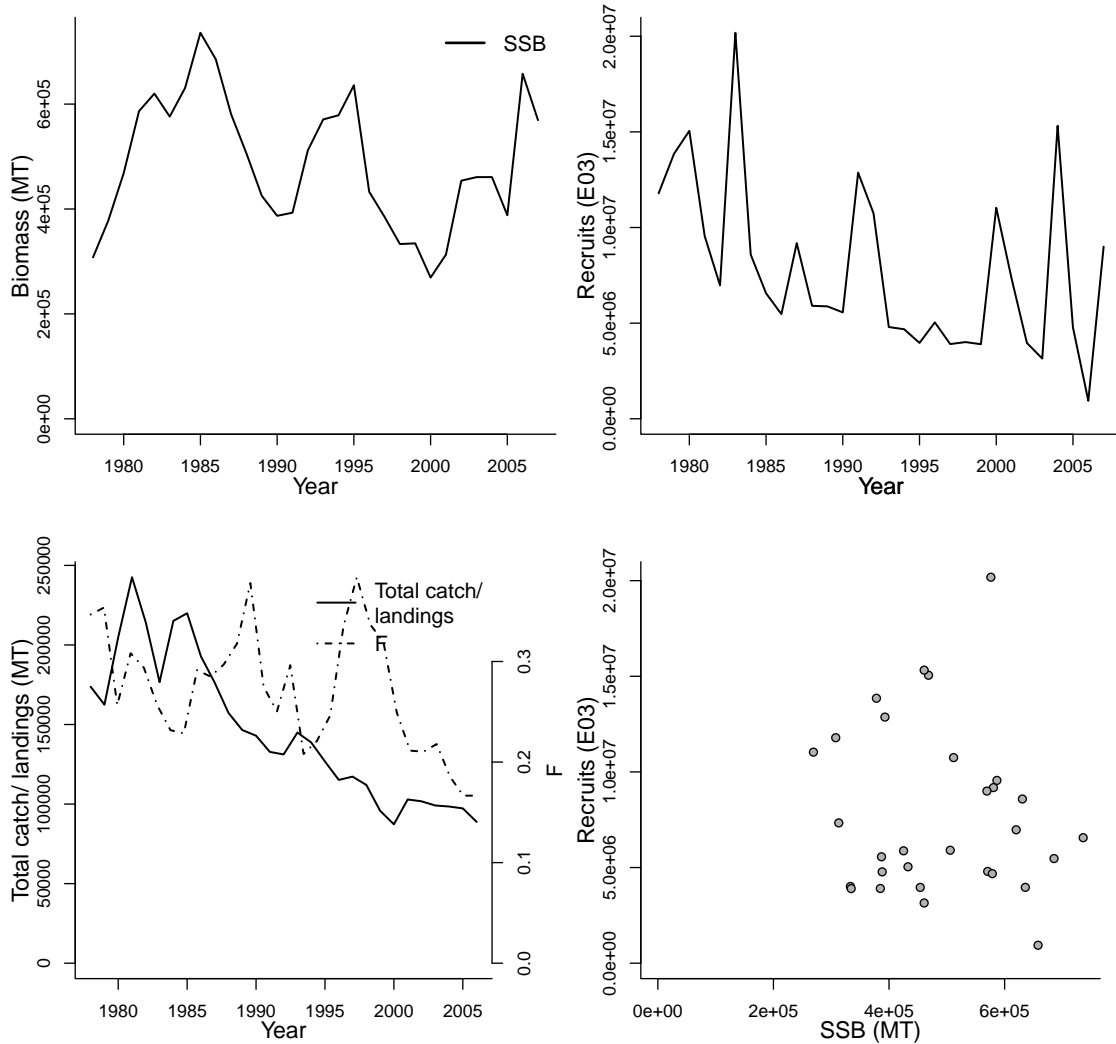
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Mackerel
Assessment authors	Anon
Assessment method	a flexible age structured model
Publication year	2007
Timeseries span	1978-2007
Document	ICES-WGMHSA07.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	2009-06-01
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME		secondary LME	tertiary LME		
25 - Iberian Coastal		na	na		
Parameter	Value	Units			
SSB-AGE-yr	AVAILABLE	yr			
REC-AGE-yr	0	yr			
F-AGE-yr-yr	2 to 5	yr-yr			
TB-AGE-yr	0+	yr	Reference points		
A50-yr	AVAILABLE	yr	Parameter	Value	Units
M-1/T	0.33	1/T			
SSB-SEX-sex					
M					
L50-cm					

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1978	1978		1978
Maximum year	2007	2007	2007		2006
Time series minimum	269194	939973	0.1666		87272
Time series maximum	735950	20179479	0.3838		242574
Units	MT	E03	1/T		MT



Assessment of Northeast Atlantic blue whiting (*Micromesistius poutassou*)

Assessment ID:WGNPBW-BWHITNEA-1980-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/79>

Area ID: multinational-ICES-I-II-III-IV-V-VI-VII-VIII-IX-XII-XIV

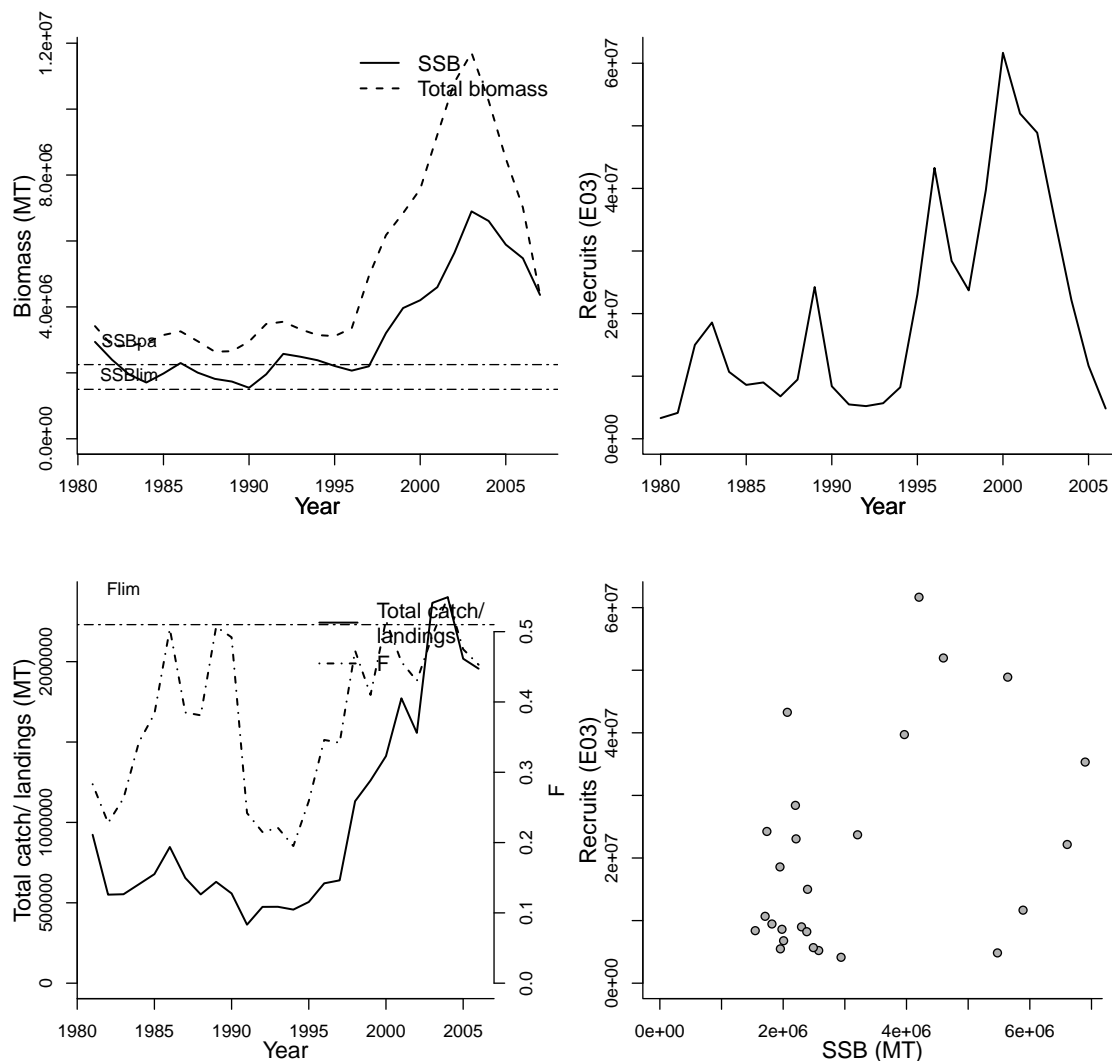
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Northern Pelagic and Blue Whiting Fisheries Working Group
Assessment authors	Anon
Assessment method	Stochastic Multi-species (SMS) model
Publication year	2007
Timeseries span	1980-2007
Document	ICES-WGNPBW-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-25
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-29

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

primary LME			secondary LME			tertiary LME		
24 - Celtic-Biscay Shelf			60 - Faroe Plateau			59 - Iceland Shelf		
Parameter	Value	Units	Reference points					
SSB-AGE-yr	AVAILABLE	yr	Parameter	Value	Units			
REC-AGE-yr	1	yr	Flim-1/T (F)	0.51	1/T			
F-AGE-yr-yr	3 to 7	yr-yr	Fpa-1/T (F)	0.32	1/T			
TB-AGE-yr	1+	yr	SSBlim-MT (SSB)	1500000	MT			
A50-yr	AVAILABLE	yr	SSBpa-MT (SSB)	2250000	MT			
M-1/T	0.2	1/T	SSB_{2007}/SSB_{lim}	2.909				
SSB-SEX-sex			F_{2006}/F_{lim}	0.888				
M								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981	1980	1981	1981	1981
Maximum year	2007	2006	2006	2007	2006
Time series minimum	1546719	3308512	0.195	2642113	364008
Time series maximum	6897723	61664776	0.549	11708107	2400795
Units	MT	E03	1/T	MT	MT



Assessment of Rockall Bank haddock (*Melanogrammus aeglefinus*)

Assessment ID: WGNSSK-HADROCK-1990-2007-JENNINGS
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/28>

Area ID: multinational-ICES-VIb

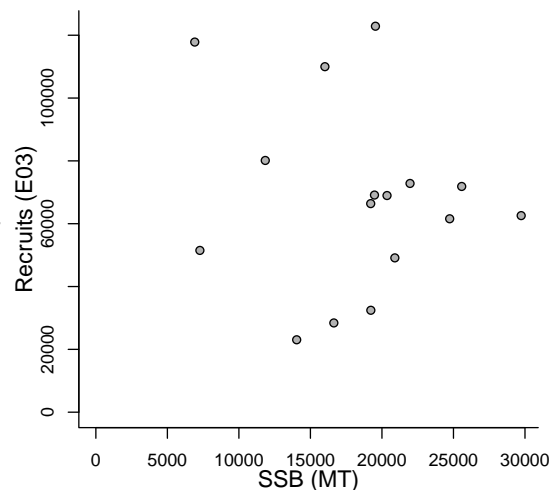
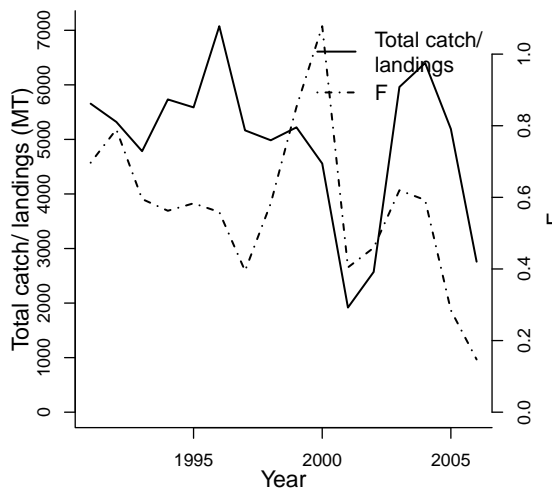
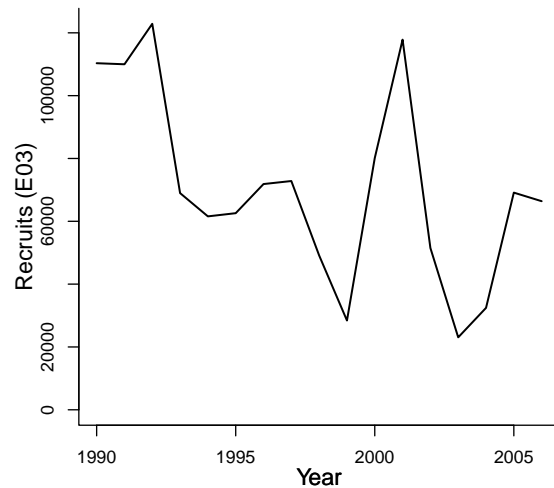
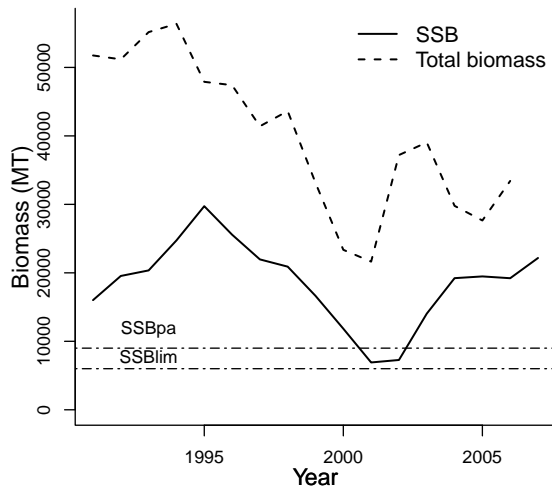
General assessment details.

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	1990-2007
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-20
Date last loaded	2010-03-10
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME			secondary LME	tertiary LME	
24 - Celtic-Biscay Shelf			na	na	
Parameter	Value	Units			
SSB-AGE-yr	2.5	yr	Reference points		
REC-AGE-yr	1	yr			
F-AGE-yr-yr	2 to 5	yr-yr	Parameter	Value	Units
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.4	1/T
A50-yr	2.5	yr	SSBlim-MT (SSB)	6000	MT
M-1/T	0.2	1/T	SSBpa-MT (SSB)	9000	MT
SSB-SEX-sex			SSB_{2007}/SSB_{lim}	3.695	
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1991	1990	1991	1991	1991
Maximum year	2007	2006	2006	2006	2006
Time series minimum	6913	23055	0.1473	21639	1918
Time series maximum	29734	122870	1.07795	56370	7075
Units	MT	E03	1/T	MT	MT



Assessment of ICES VIIb-k haddock (*Melanogrammus aeglefinus*)

Assessment ID:WGSSDS-HADVIIb-k-1993-2006-JENNINGS
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/46>

Area ID: multinational-ICES-VIIb-k

General assessment details.

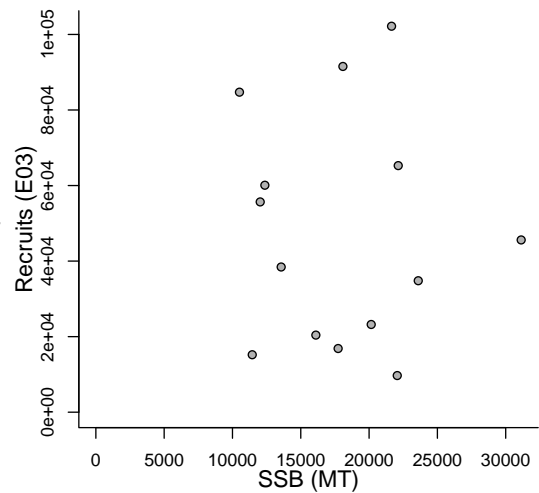
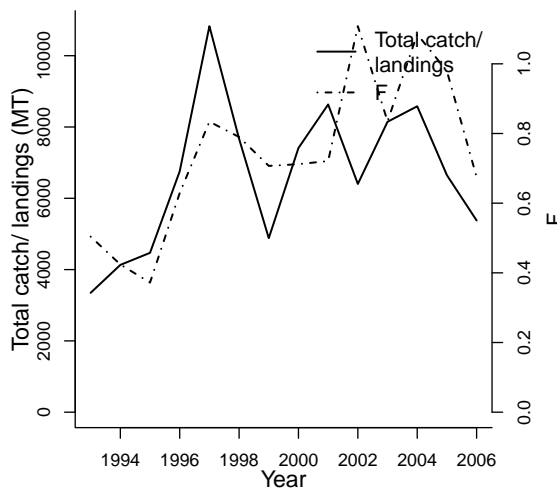
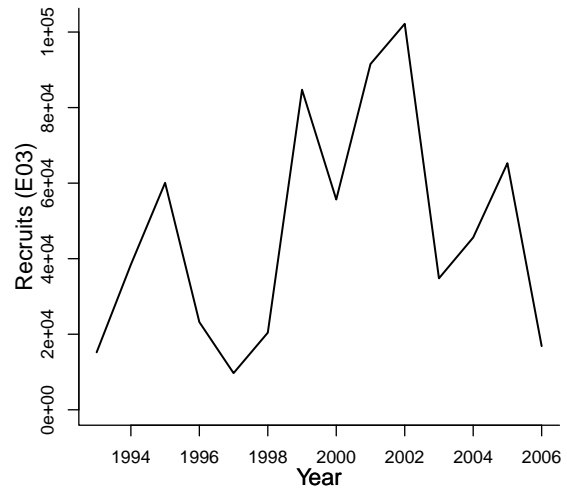
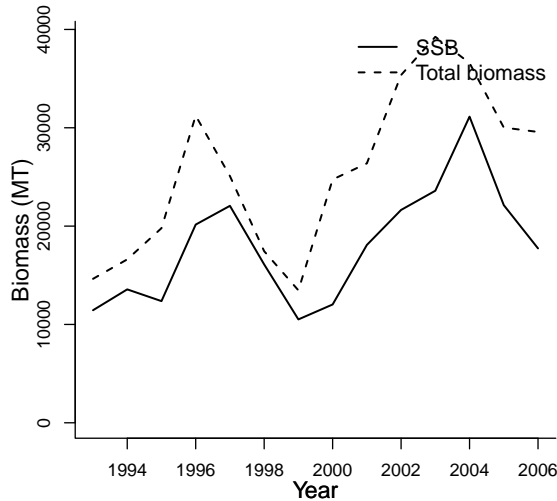
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1993-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-24
Date last loaded	2009-06-01
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		na	na
Parameter	Value	Units	
SSB-AGE-yr	2	yr	
REC-AGE-yr	0	yr	
F-AGE-yr-yr	2 to 5	yr-yr	
TB-AGE-yr	0+	yr	
A50-yr	2	yr	
M-1/T	0.2	1/T	
SSB-SEX-sex			
M			
L50-cm			

Reference points
Parameter Value Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1993	1993	1993	1993	1993
Maximum year	2006	2006	2006	2006	2006
Time series minimum	10512	9702	0.372	13468	3348
Time series maximum	31133	102180	1.108	39251	10827
Units	MT	E03	1/T	MT	MT



Assessment of Celtic Sea european plaice (*Pleuronectes platessa*)

Assessment ID:WGSSDS-PLAICCELT-1976-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/51>

Area ID: multinational-ICES-VIIf-g

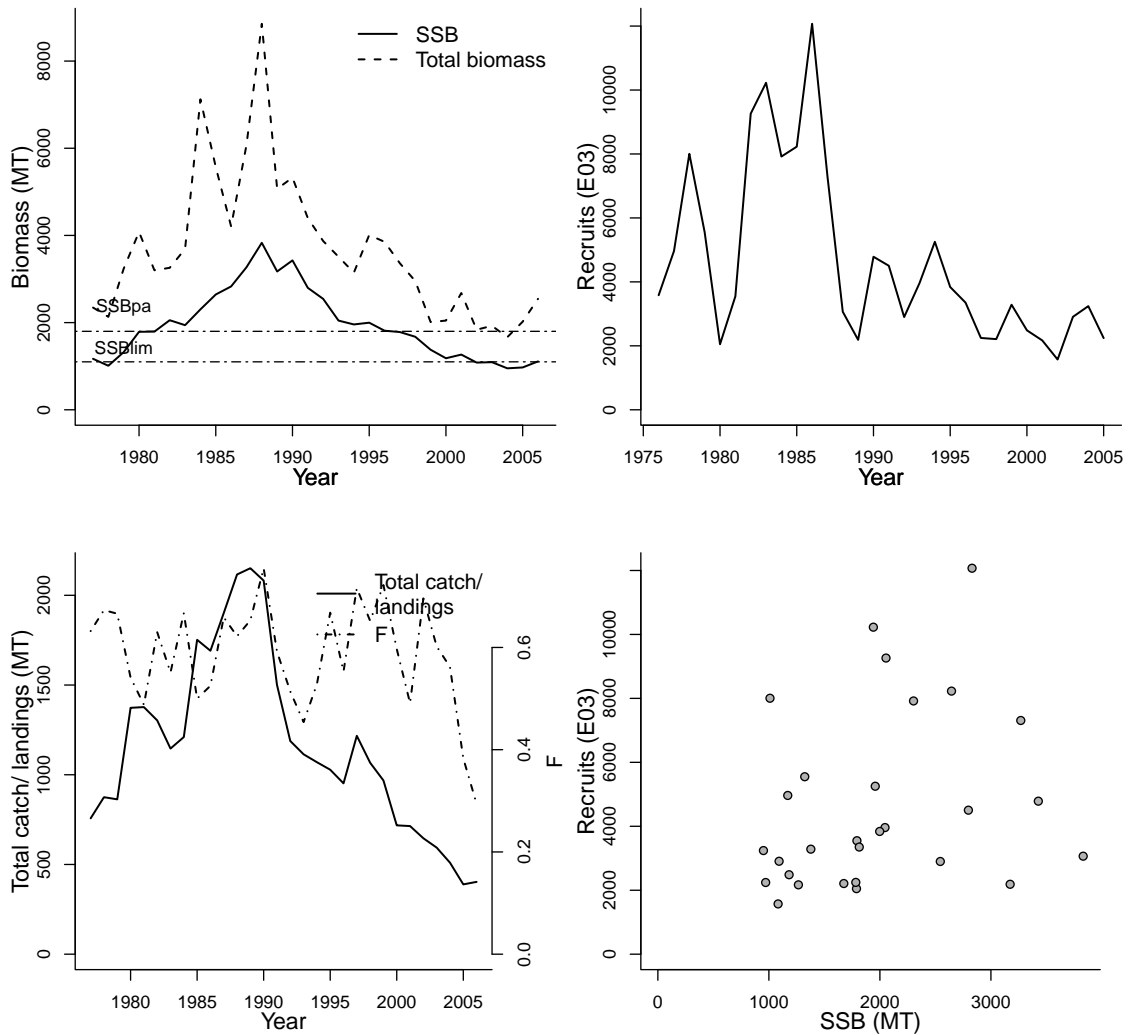
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1976-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-22
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-28

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

primary LME			secondary LME	tertiary LME		
24 - Celtic-Biscay Shelf			na	na		
Parameter	Value	Units				
SSB-AGE-yr	AVAILABLE	yr				
REC-AGE-yr	1	yr	Reference points			
F-AGE-yr-yr	3 to 6	yr-yr	Parameter	Value	Units	
TB-AGE-yr	1+	yr				
A50-yr	AVAILABLE	yr	SSBlim-MT (SSB)	1100	MT	
M-1/T	0.12	1/T	SSBpa-MT (SSB)	1800	MT	
SSB-SEX-sex			SSB_{2006}/SSB_{lim}	1.009		
M						
L50-cm						

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1976	1977	1977	1977
Maximum year	2006	2005	2006	2006	2006
Time series minimum	951	1572	0.294	1666	389
Time series maximum	3831	12071	0.755	8855	2151
Units	MT	E03	1/T	MT	MT



Assessment of Western English Channel european plaice (*Pleuronectes platessa*)

Assessment ID:WGSSDS-PLAICEHW-1975-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/52>

Area ID: multinational-ICES-VIIe

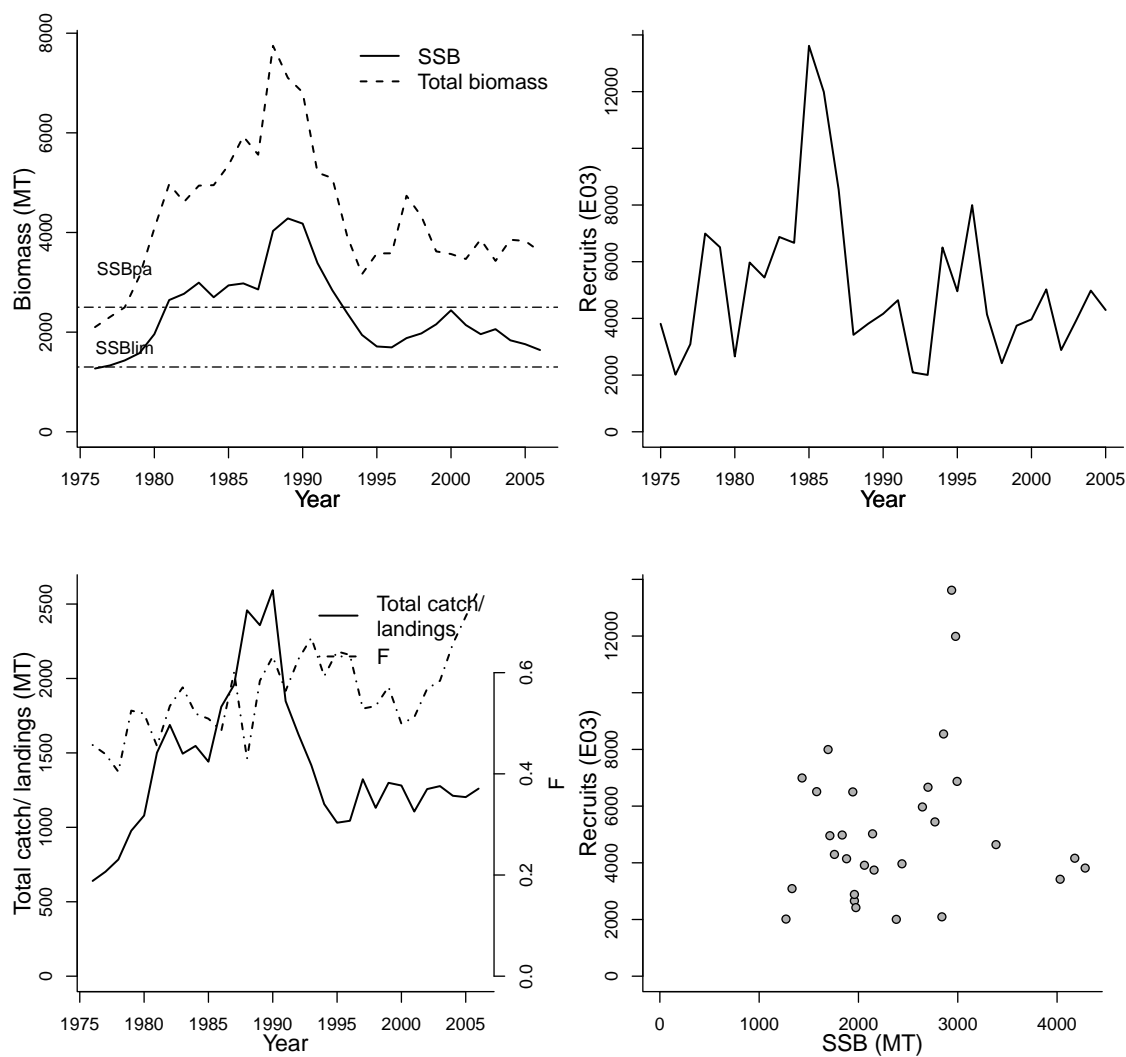
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1975-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-23
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-28

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

			primary LME	secondary LME	tertiary LME
			24 - Celtic-Biscay Shelf	na	na
Parameter	Value	Units			
SSB-AGE-yr	AVAILABLE	yr	Reference points		
REC-AGE-yr	1	yr			
F-AGE-yr-yr	3 to 7	yr-yr	Parameter	Value	Units
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.45	1/T
A50-yr	AVAILABLE	yr	SSBlim-MT (SSB)	1300	MT
M-1/T	0.12	1/T	SSBpa-MT (SSB)	2500	MT
SSB-SEX-sex			SSB_{2006}/SSB_{lim}	1.262	
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1976	1975	1976	1976	1976
Maximum year	2006	2005	2006	2006	2006
Time series minimum	1270	2006	0.404	2101	640
Time series maximum	4283	13617	0.763	7747	2593
Units	MT	E03	1/T	MT	MT



Assessment of Celtic Sea common european sole (*Solea vulgaris*)

Assessment ID:WGSSDS-SOLECS-1970-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/55>

Area ID: multinational-ICES-VIIf-g

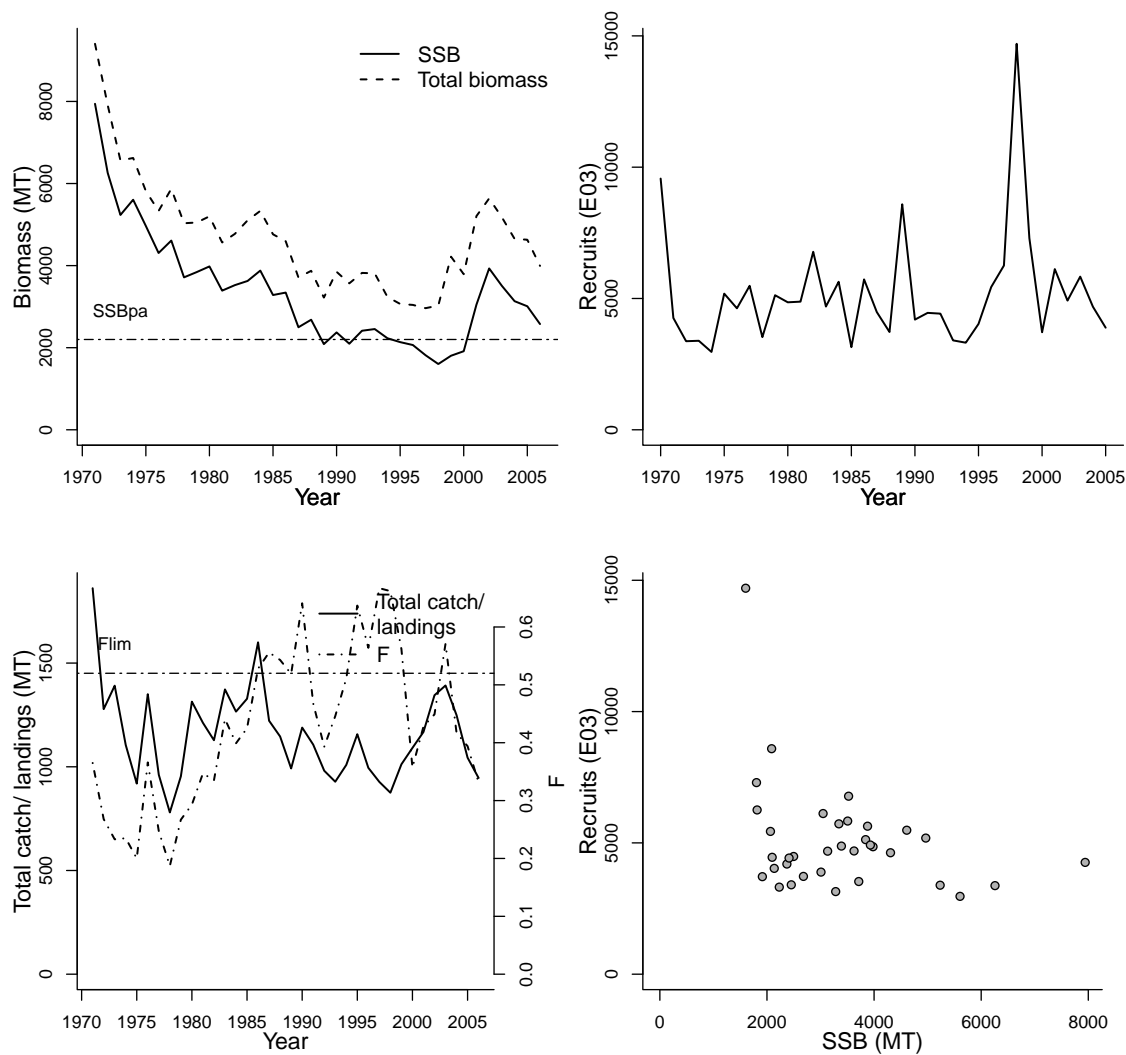
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1970-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-23
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-29

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

			primary LME	secondary LME	tertiary LME
			24 - Celtic-Biscay Shelf	na	na
Parameter	Value	Units			
SSB-AGE-yr	AVAILABLE	yr	Reference points		
REC-AGE-yr	1	yr			
F-AGE-yr-yr	4 to 8	yr-yr	Parameter	Value	Units
TB-AGE-yr	1+	yr	Flim-1/T (F)	0.52	1/T
A50-yr	AVAILABLE	yr	Fpa-1/T (F)	0.37	1/T
M-1/T	0.1	1/T	SSBpa-MT (SSB)	2200	MT
SSB-SEX-sex			F_{2006}/F_{lim}	0.637	
M					
L50-cm					

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	1602	2964	0.187	2963	780
Time series maximum	7942	14698	0.667	9404	1861
Units	MT	E03	1/T	MT	MT



Assessment of Western English Channel common european sole (*Solea vulgaris*)

Assessment ID: WGSSDS-SOLEVIIe-1968-2006-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/78>

Area ID: multinational-ICES-VIIe

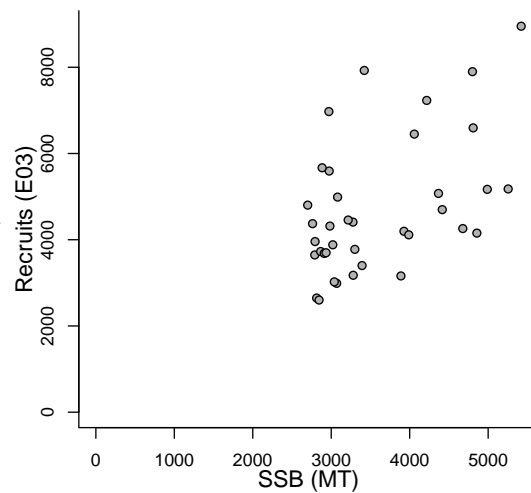
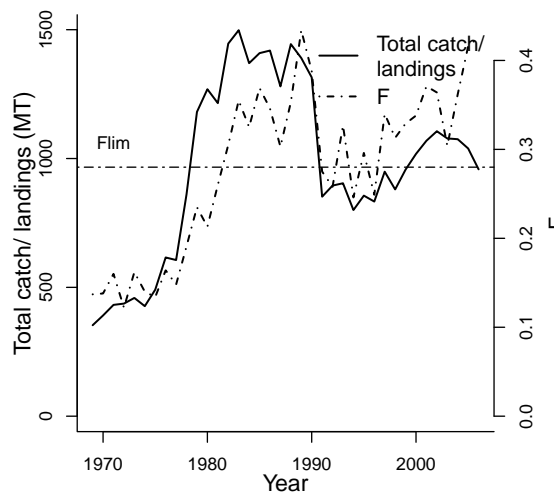
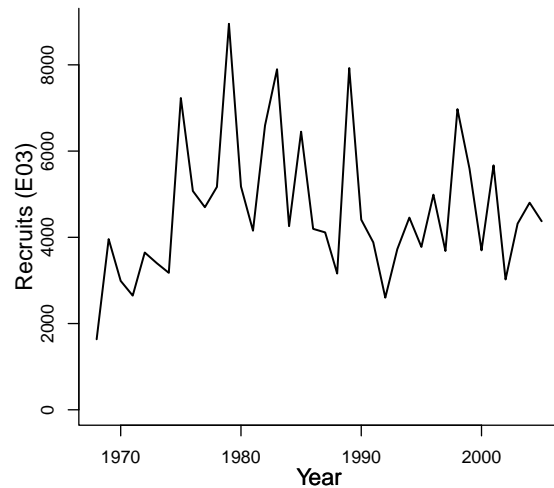
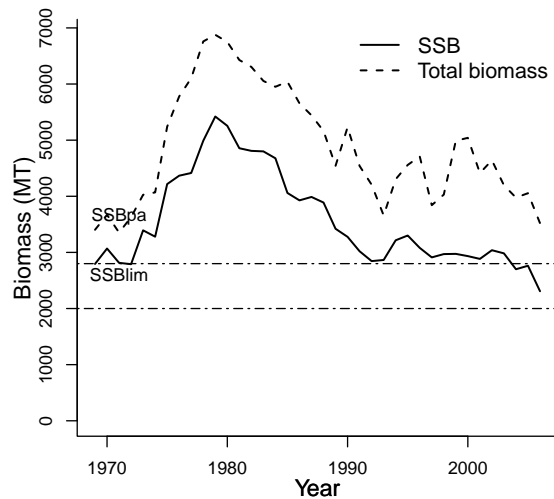
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1968-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-25
Date last loaded	2010-03-11
QA/QC complete	YES
Date approved	2009-05-29

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

			primary LME	secondary LME	tertiary LME
			24 - Celtic-Biscay Shelf	na	na
Parameter	Value	Units			
SSB-AGE-yr	AVAILABLE	yr	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
F-AGE-yr-yr	3 to 7	yr-yr	Flim-1/T (F)	0.28	1/T
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.2	1/T
A50-yr	AVAILABLE	yr	SSBlim-MT (SSB)	2000	MT
M-1/T	0.1	1/T	SSBpa-MT (SSB)	2800	MT
SSB-SEX-sex			SSB_{2006}/SSB_{lim}	1.154	
M			F_{2006}/F_{lim}	1.521	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1969	1968	1969	1969	1969
Maximum year	2006	2005	2006	2006	2006
Time series minimum	2308	1635	0.122	3354	353
Time series maximum	5421	8952	0.434	6877	1498
Units	MT	E03	1/T	MT	MT



Assessment of Celtic Sea whiting (*Merlangius merlangus*)

Assessment ID: WGSSDS-WHITVIIek-1982-2007-JENNINGS
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/81>

Area ID: multinational-ICES-VIIe-k

General assessment details.

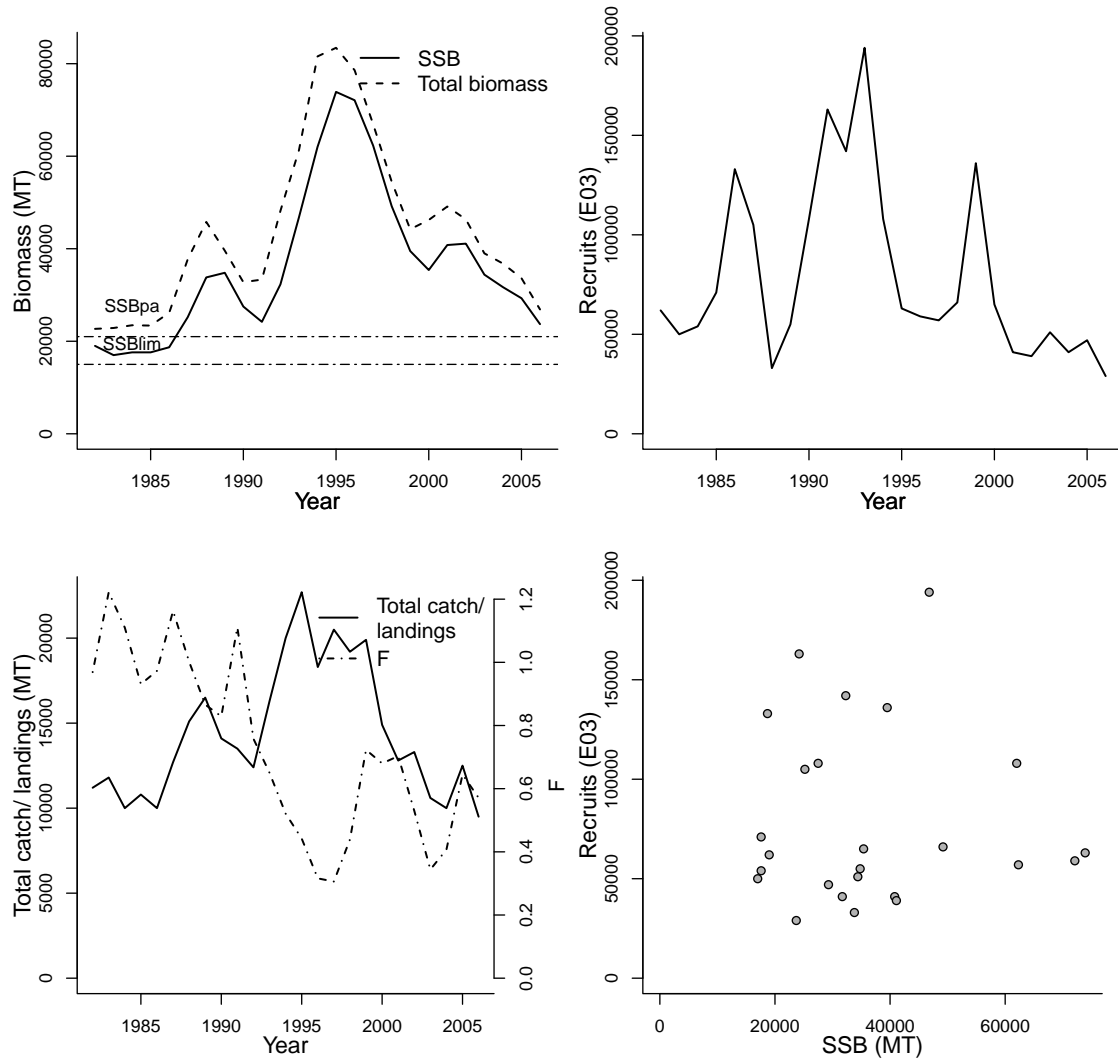
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2007
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-27
Date last loaded	2010-03-10
QA/QC complete	YES
Date approved	2009-05-29

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

			primary LME	secondary LME	tertiary LME
			24 - Celtic-Biscay Shelf	na	na
Parameter	Value	Units			
SSB-AGE-yr	AVAILABLE	yr			
REC-AGE-yr	0	yr	Reference points		
F-AGE-yr-yr	2 to 5	yr-yr	Parameter	Value	Units
TB-AGE-yr	0+	yr	SSBlim-MT (SSB)	15000	MT
A50-yr	AVAILABLE	yr	SSBpa-MT (SSB)	21000	MT
M-1/T	0.2	1/T	SSB_{2006}/SSB_{lim}	1.580	
SSB-SEX-sex					
M					
L50-cm					

Time series minima and maxima

	SSB	R	F	TB	Catch
Minimum year	1982	1982	1982	1982	1982
Maximum year	2006	2006	2006	2006	2006
Time series minimum	17000	29000	0.306	22680	9500
Time series maximum	73900	194000	1.222	83433	22700
Units	MT	E03	1/T	MT	MT



Large Marine Ecosystems of the World and Linked Watersheds

MAP KEY:

- LME Numbers:**
1. East African Rift
 2. California Current
 3. Gulf of Mexico
 4. Northwest U.S. Continental Shelf
 5. Northeast U.S. Continental Shelf
 6. Labrador Current
 7. Newfoundland-Labrador Shelf
 8. Arctic Ocean
 9. Barents Sea
 10. Norwegian Sea
 11. Pacific Central American Coastal
 12. Humboldt Current
 13. Peru-Chilean Coastal
 14. Patagonian Shelf
 15. Brazil Shelf
 16. West Greenland Shelf
 17. East Greenland Shelf
 18. Barents Sea
 19. North Sea
 20. Celtic Shelf
 21. Iberian Coastal
 22. Canary Current
 23. Benguela Current
 24. Somali Current
 25. Somali Coastal Current
 26. Red Sea
 27. Gulf of Thailand
 28. Andaman Sea
 29. South China Sea
 30. Indonesian Sea
 31. Northern Australian Shelf
 32. Southern Australian Shelf
 33. Southwest Australian Shelf
 34. Northwest Australian Shelf
 35. East China Sea
 36. Yellow Sea
 37. Korea Strait
 38. Sea of Japan
 39. Sea of Okhotsk
 40. Sea of Chukotka
 41. Chukchi Sea
 42. East Siberian Sea
 43. Kara Sea
 44. Laptev Sea
 45. East Siberian Sea
 46. Laptev Sea
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 99. Laptev Sea
 100. East Siberian Sea

- Large Marine Ecosystems**
- Watershed Boundaries**
- Political Boundaries**

