Dear Simon.

Thank you sincerely for entering assessments into the Myers II database. Your assessments have been entered and we now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please use the following steps 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 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 designation for your stock (unless it is a high seas stock). Please enter a primary and secondary and tertiary LME (if they exist) in the issue you submit (see below). A map of the LMEs is provided overleaf.

QA/QC submission process

If you submitted assessments via the RAM Legacy site, please log into: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting

Once you locate your assessment, please begin a new "Add response", on the page and title this response

QAQC: Assessment ID (located at the top of each assessment in this pdf)

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 in 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.

Assessment of North-East Arctic greenland halibut (*Reinhardtius hippoglossoides*) Assessment ID:AFWG-GHALNEAR-1959-2007-JENNINGS

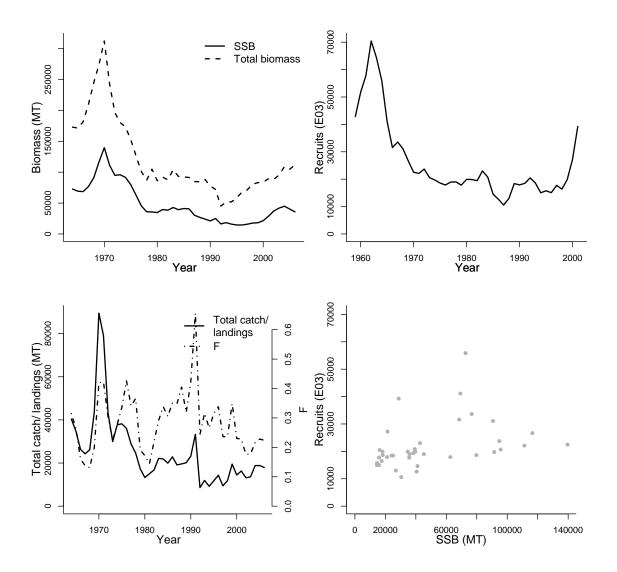
Area ID: multinational-ICES-I-II

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units			
SSB-AGE-yr REC-AGE-yr TB-AGE-yr A50-yr	AVAILABLE 5 5+ AVAILABLE	yr yr yr yr		nce poin	
F-AGE-yr M		J	Parameter	Value	Units
L50-cm MORATOR-yr-yr LME					

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

Area ID: multinational-ICES-VIIa

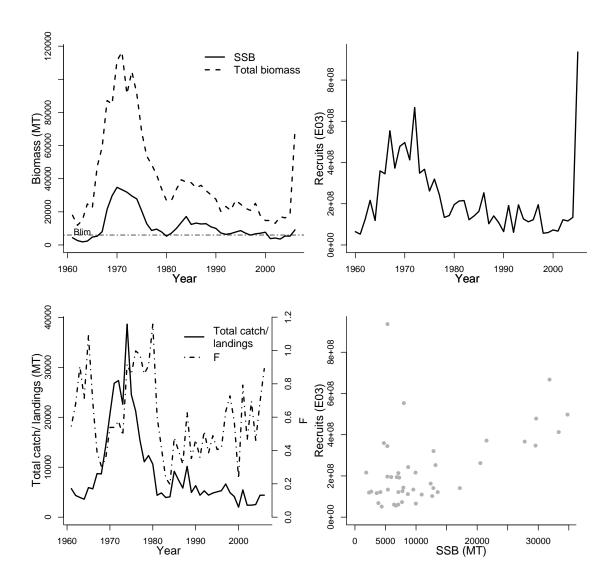
General assessment details.

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	
TB-AGE-yr	1+	yr	
A50-yr	AVAILABLE	yr	Pa
M-1/T F-AGE-yr	AVAILABLE	1/T	Blin
M			SSE
L50-cm			
MORATOR-yr-yr			
LME			

Reference points					
Parameter	Value	Units			
Blim-MT (SSB)	6000	MT			
SSB_{2006}/B_{lim}	1.519				

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

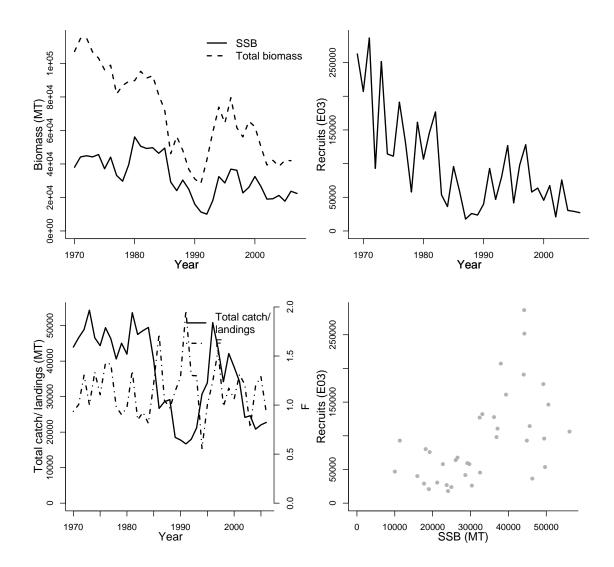
Area ID: multinational-ICES-22-24

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	NULL (pdf not in database)			
Recorder	JENNINGS			
Date entered	2008-12-02			

Parameter	Value	Units	
SSB-AGE-yr REC-AGE-yr	AVAILABLE	yr yr	
TB-AGE-yr A50-yr	1+ AVAILABLE	yr yr	Reference points
M-1/T F-AGE-yr	AVAILABLE	1/T	Parameter Value Units
M L50-cm			
MORATOR-yr-yr LME			

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

Area ID: multinational-ICES-25-32

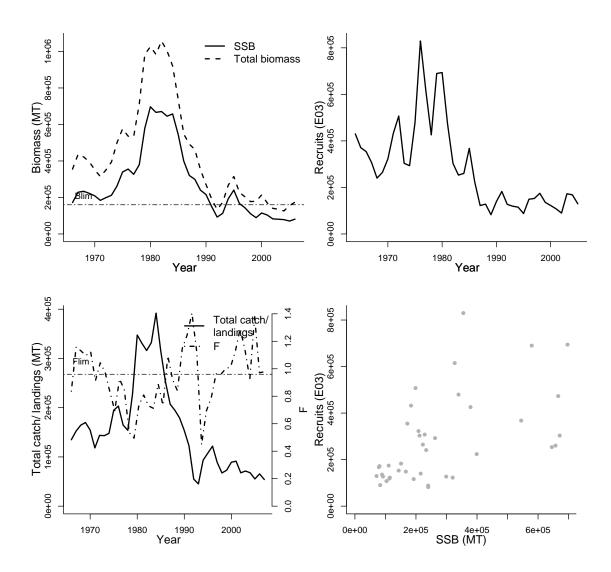
General assessment details.

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	NULL (pdf not in database)			
Recorder	JENNINGS			
Date entered	2008-12-02			

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	2	yr
TB-AGE-yr	2+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.2	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points						
Parameter Value Units						
Flim-1/T (F)	0.96	1/T				
Fpa-1/T (F)	0.6	1/T				
Blim-MT (SSB)	160000	MT				

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

Area ID: multinational-ICES-25-32

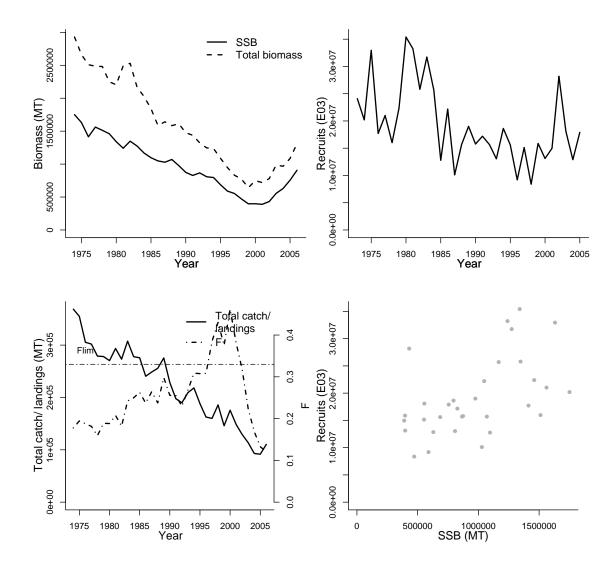
General assessment details.

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Value	Units	
AVAILABLE	yr	
1	yr	
1+	yr	
AVAILABLE	yr	
AVAILABLE	1/T	
	AVAILABLE 1 1+ AVAILABLE	

Reference points					
Parameter Value Units					
0.33	1/T				
0.365					
	Value 0.33				

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

Area ID: multinational-ICES-30

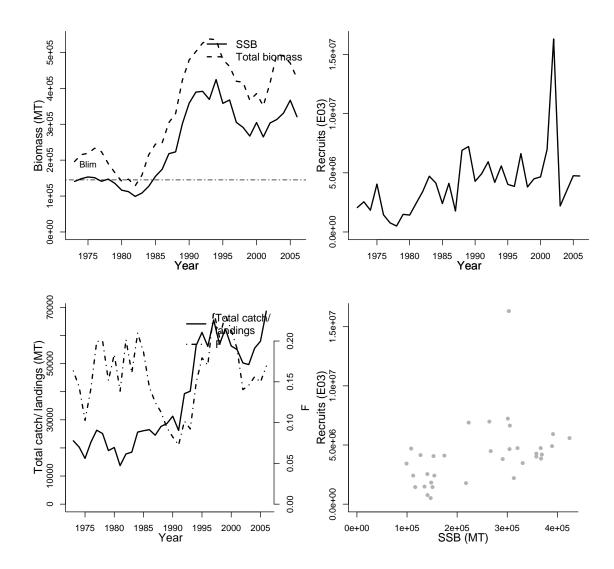
General assessment details.

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.2	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points					
Parameter Value Units					
Flim-1/T (F)	0.3	1/T			
Fpa-1/T (F)	0.21	1/T			
Blim-MT (SSB)	145000	MT			

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 Sea herring (Clupea harengus) Assessment ID:WGBFAS-HERR31-1979-2006-JENNINGS

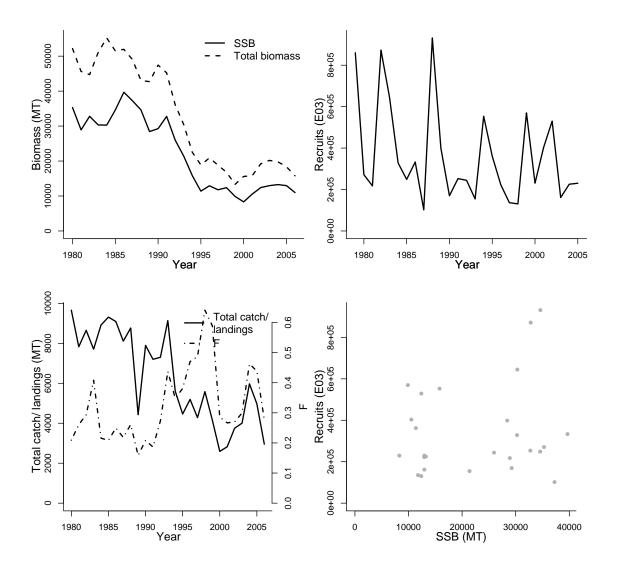
Area ID: multinational-ICES-30

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	1979-2006		
Document	NULL (pdf not in database)		
Recorder	JENNINGS		
Date entered	2008-12-02		

Parameter	Value	Units			
TB-AGE-yr	1+	yr			
A50-yr	AVAILABLE	yr			
REC-AGE			Deferen	ann nain	+
SSB-AGE-yr				ice poin	
F-AGE-yr			Parameter	Value	Units
M					
L50-cm					
MORATOR-yr-yr					
LME					

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 25						
Time series maximum 39680 931324 0.6409 55196 965						
Units	MT	E03	1/T	MT	MT	



Assessment of Iceland Grounds herring (Clupea harengus) Assessment ID:WGBFAS-HERRIsum-1983-2007-JENNINGS

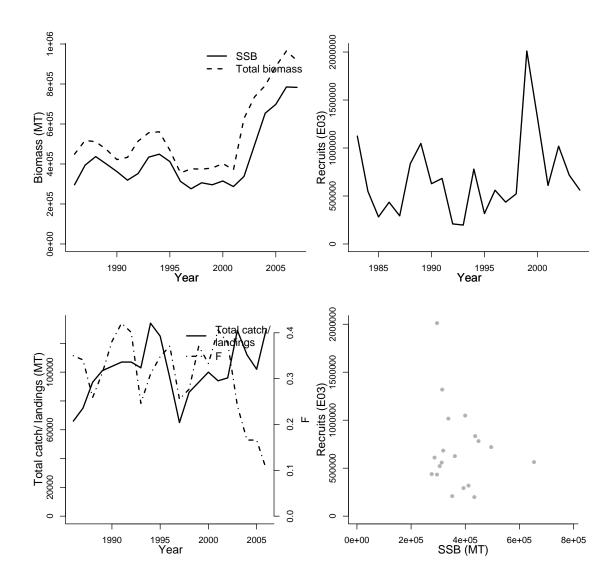
Area ID: multinational-ICES-Va

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Baltic Fisheries Assessment Working				
	Group				
Assessment authors	Anon				
Assessment method	NFT-ADAP				
Publication year	2007				
Timeseries span	1983-2007				
Document	NULL (pdf not in database)				
Recorder	JENNINGS				
Date entered	2008-12-02				

Parameter	Value	Units			
A50-yr	AVAILABLE	yr			
REC-AGE					
SSB-AGE-yr				•	
TB-AGE-yr				ice poin	
F-AGE-yr			Parameter	Value	Units
M					
L50-cm					
MORATOR-yr-yr					
LME					

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 RigaEast of Gotland herring (Clupea harengus) Assessment ID:WGBFAS-HERRRIGA-1976-2007-JENNINGS

Area ID: multinational-ICES-28

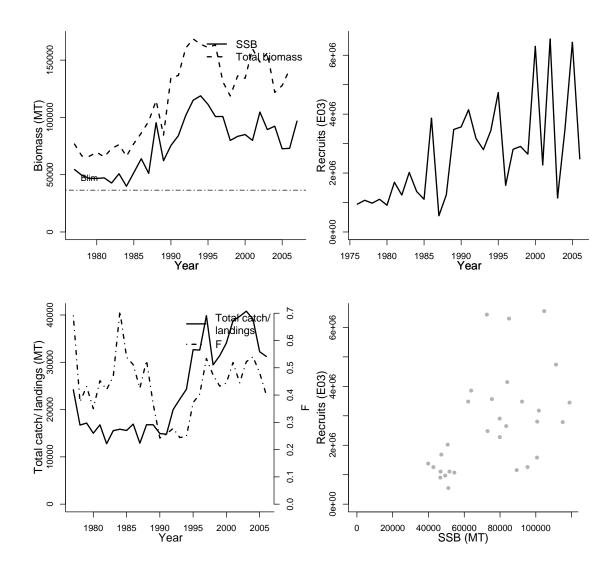
General assessment details.

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	NULL (pdf not in database)				
Recorder	JENNINGS				
Date entered	2008-12-02				

Parameter	Value	Units
SSB-AGE-yr	1.5	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	1.5	yr
M-1/T	AVAILABLE	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points					
Parameter	Value	Units			
Fpa-1/T (F)	0.4	1/T			
Blim-MT (SSB)	36500	MT			
SSB_{2007}/B_{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

Area ID: multinational-ICES-IIIa

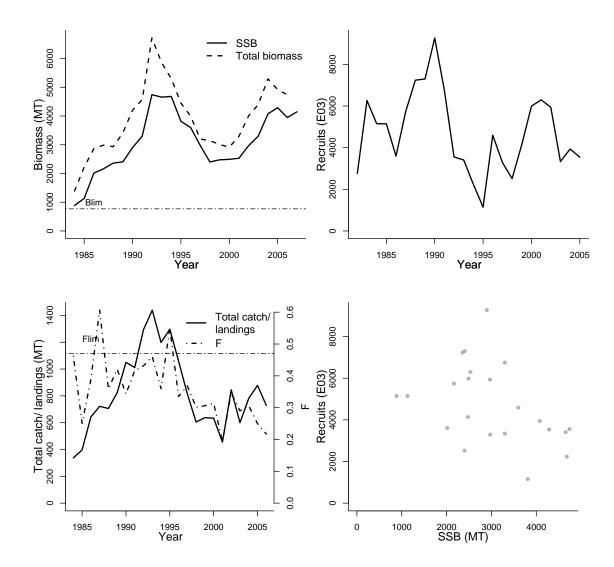
General assessment details.

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	NULL (pdf not in database)				
Recorder	JENNINGS				
Date entered	2008-12-02				

Parameter	Value	Units
SSB-AGE-yr	3	yr
REC-AGE-yr	2	yr
TB-AGE-yr	2+	yr
A50-yr	3	yr
M-1/T	0.1	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points						
Parameter	Value	Units				
Flim-1/T (F)	0.47	1/T				
Fpa-1/T (F)	0.3	1/T				
Blim-MT (SSB) 770 MT						
SSB_{2007}/B_{lim} 5.384						

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

Area ID: multinational-ICES-22-32

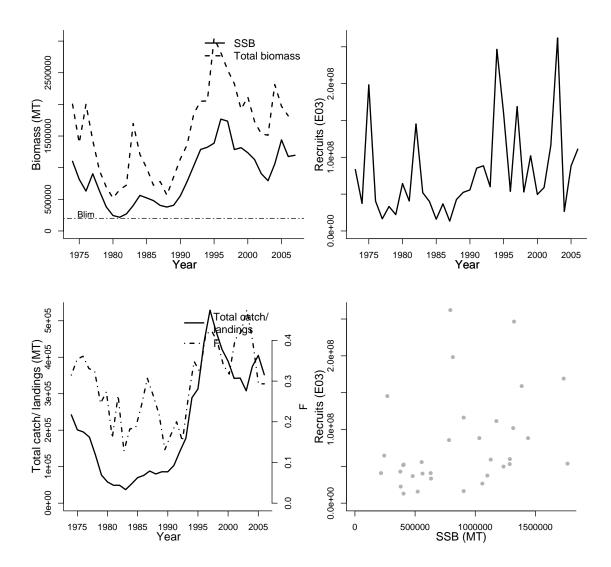
General assessment details.

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	AVAILABLE	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points				
Parameter	Value	Units		
Fpa-1/T (F)	0.4	1/T		
Blim-MT (SSB)	200000	MT		
SSB_{2007}/B_{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

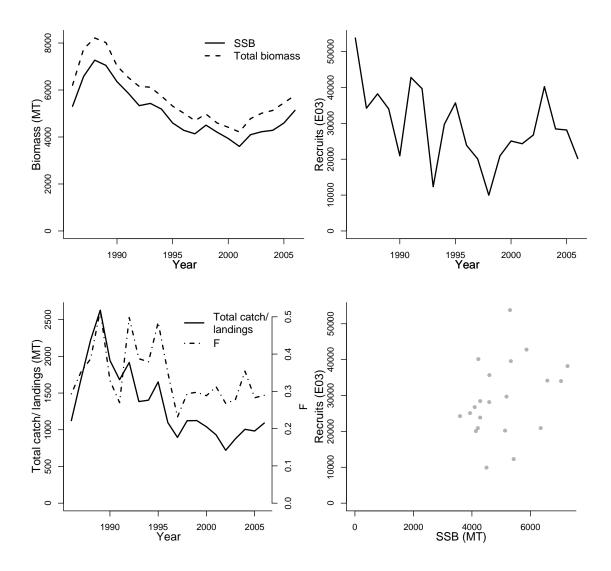
Area ID: multinational-ICES-VIIIc-IXa

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units			
A50-yr	AVAILABLE	yr			
REC-AGE					
SSB-AGE-yr					
TB-AGE-yr				ice poir	
F-AGE-yr			Parameter	Value	Units
M					
L50-cm					
MORATOR-yr-yr					
LME					

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 II-IIIa-IV-VI-VII-VIIIabc hake (Merluccius merluccius) Assessment ID:WGHMM-HAKENRTN-1978-2007-JENNINGS

Area ID: multinational-ICES-II-IIIa-IV-VI-VII-VIIIabc

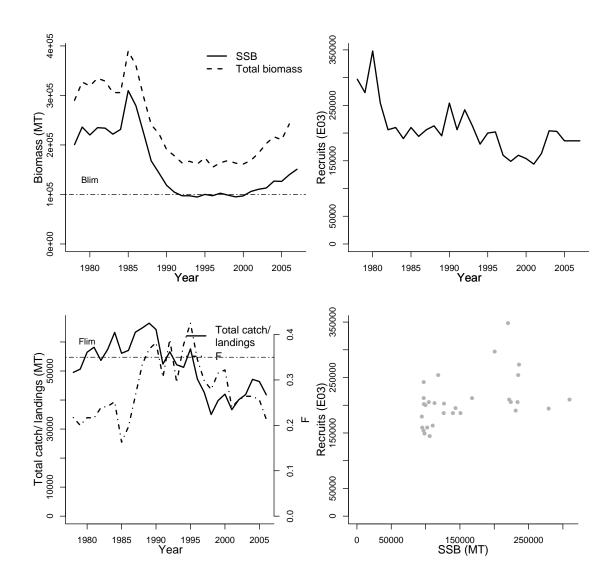
General assessment details.

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	1978-2007
Document	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	0	yr
TB-AGE-yr	0+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.2	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points			
Parameter	Value	Units	
Flim-1/T (F)	0.35	1/T	
Fpa-1/T (F)	0.25	1/T	
Blim-MT (SSB)	100000	MT	
SSB_{2007}/B_{lim}	1.509		

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1978	1978	1978	1978
Maximum year	2007	2007	2006	2006	2006
Time series minimum	94800	144000	0.163	154969	35010
Time series maximum	309700	348000	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

Area ID: multinational-ICES-VIIIc-IXa

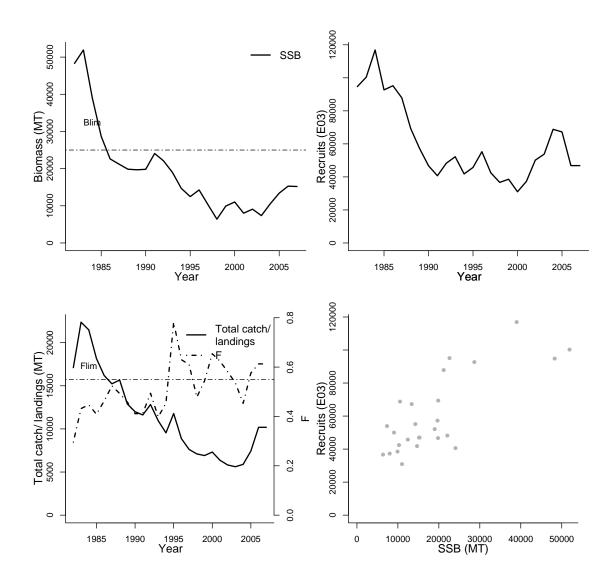
General assessment details.

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	1982-2007
Document	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	0	yr	
TB-AGE-yr	0+	yr	F
A50-yr	AVAILABLE	yr	Fli
M-1/T	0.2	1/T	Fp
F-AGE-yr			Bli
M			SS
L50-cm			F_{20}
MORATOR-yr-yr			
LME			

Reference points					
Parameter	Value	Units			
Flim-1/T (F)	0.55	1/T			
Fpa-1/T (F)	0.44	1/T			
Blim-MT (SSB)	25000	MT			
SSB_{2007}/B_{lim} 0.608					
F_{2007}/F_{lim}	1.115				

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

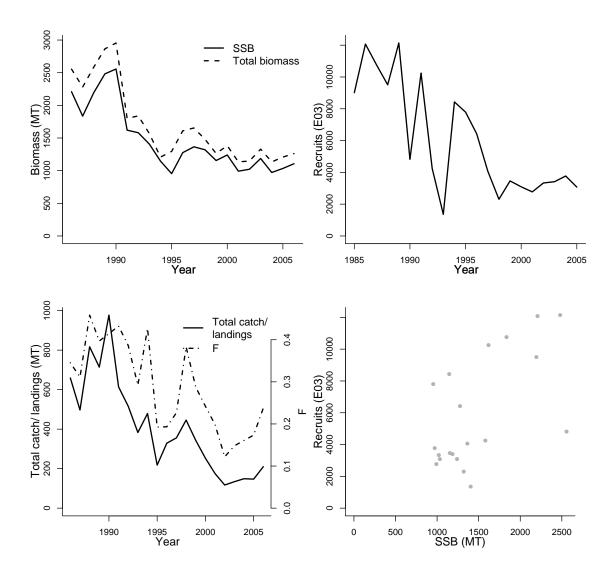
Area ID: multinational-ICES-VIIIc-IXa

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units			
REC-AGE					
SSB-AGE-yr					
TB-AGE-yr					
F-AGE-yr			Reference points		its
M			Parameter	Value	Units
A50-yr					
L50-cm					
MORATOR-yr-yr					
LME					

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

Area ID: multinational-ICES-VIII

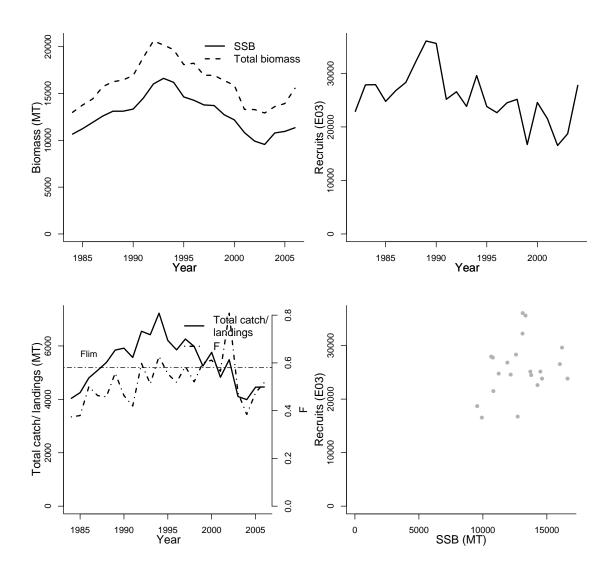
General assessment details.

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	2	yr
TB-AGE-yr	2+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.1	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points				
Parameter	Value	Units		
Flim-1/T (F)	0.58	1/T		
Fpa-1/T (F)	0.42	1/T		
F_{2006}/F_{lim}	0.893			
-				

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

Area ID: multinational-ICES-VIII

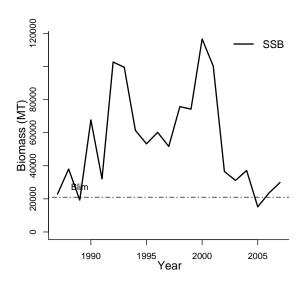
General assessment details.

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	NULL (pdf not in database)			
Recorder	JENNINGS			
Date entered	2008-12-02			

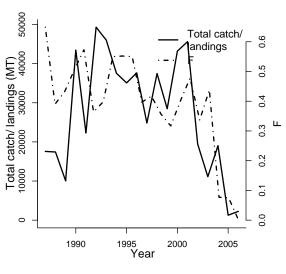
Parameter	Value	Units
SSB-AGE-yr	1	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	1	yr
M-1/T	1.2	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points			
Parameter	Value	Units	
Fpa-1/T (F)	1.1	1/T	
Blim-MT (SSB)	21000	MT	
SSB_{2007}/B_{lim}	1.423		

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



No recruitment data available



No SSB-recruit data available

Assessment of IIa-IIIabd-IV-Vb-VI-VII-VIIIabcde-XII-XIV-Ixa

mackerel (Scomber scombrus)
Assessment ID:WGMHSA-MACKNEICES-1972-2007-JENNINGS

Area ID:

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

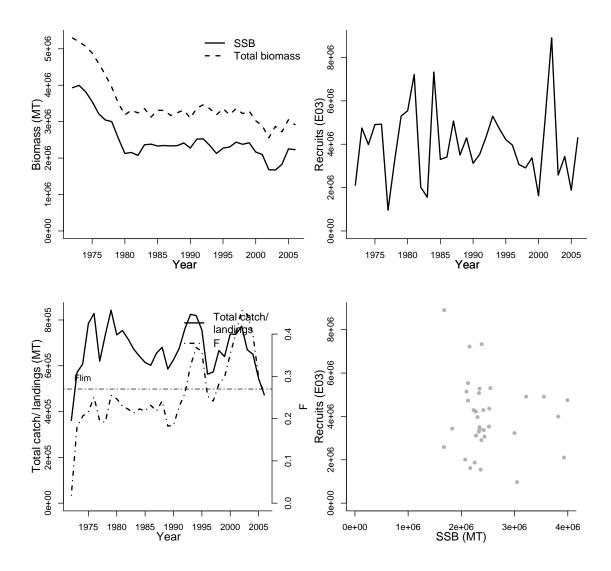
General assessment details.

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	NULL (pdf not in database)	
Recorder	JENNINGS	
Date entered	2008-12-02	

Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	0	yr	
TB-AGE-yr	0+	yr	Ref
A50-yr	AVAILABLE	yr	Paramet
M-1/T	0.15	1/T	Flim-1/T
F-AGE-yr			Fpa-1/T
M			
L50-cm			
MORATOR-yr-yr			
LME			

Reference points			
Parameter	Value	Units	
Flim-1/T (F)	0.27	1/T	
Fpa-1/T (F)	0.17	1/T	

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

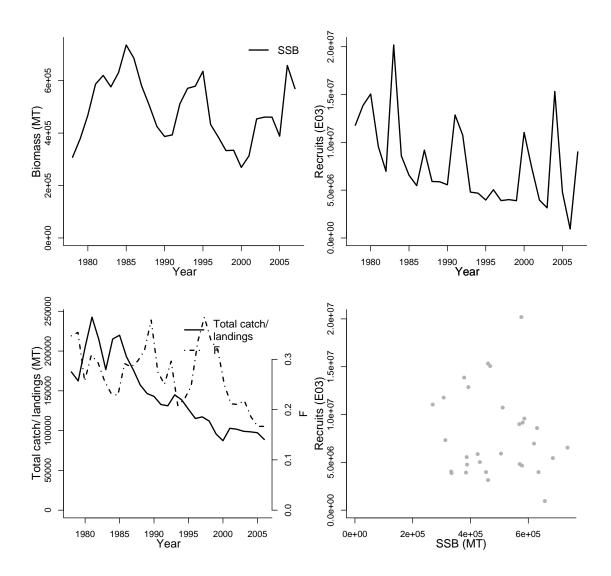
Area ID: multinational-ICES-VIIIc-IXa

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	NULL (pdf not in database)			
Recorder	JENNINGS			
Date entered	2008-12-02			

Parameter	Value	Units		
SSB-AGE-yr REC-AGE-yr TB-AGE-yr	AVAILABLE 0 0+	yr yr		
A50-yr F-AGE-yr	AVAILABLE	yr yr	Reference j Parameter Val	-
M L50-cm MORATOR-yr-yr				
LME				

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 8727							
Time series maximum 735950 20179479 0.3838 2425							
Units	MT	E03	1/T		MT		



Assessment of Northeast Atlantic blue whiting (Micromesistius poutassou) Assessment ID:WGNPBW-BWHITNEA-1979-2007-JENNINGS

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

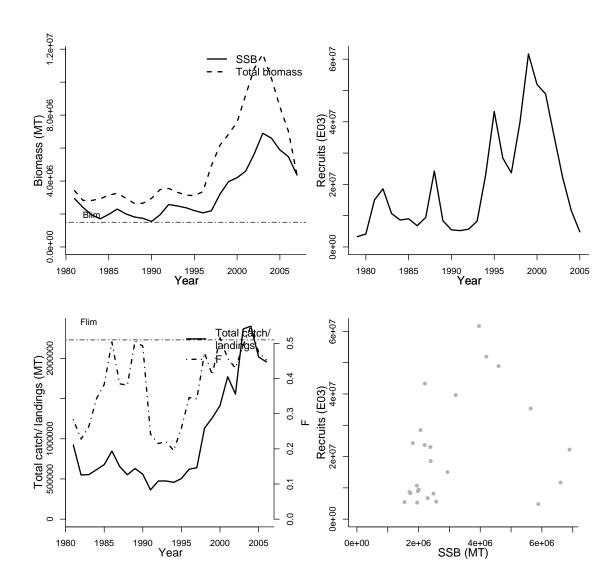
General assessment details.

Detail	Value
Management body	ICES
Assessment group	Northern Pelagic and Blue Whiting Fish-
	eries Working Group
Assessment authors	Anon
Assessment method	Stochastic Multi-species (SMS) model
Publication year	2007
Timeseries span	1979-2007
Document	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-07

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.2	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points				
Parameter	Value	Units		
Flim-1/T (F)	0.51	1/T		
Fpa-1/T (F)	0.32	1/T		
Blim-MT (SSB)	1500000	MT		
SSB_{2007}/B_{lim}	2.909			

Time series minima and maxima						
SSB R F TB Catch						
Minimum year	1981	1979	1981	1981	1981	
Maximum year	2007	2005	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

Area ID: multinational-ICES-VIb

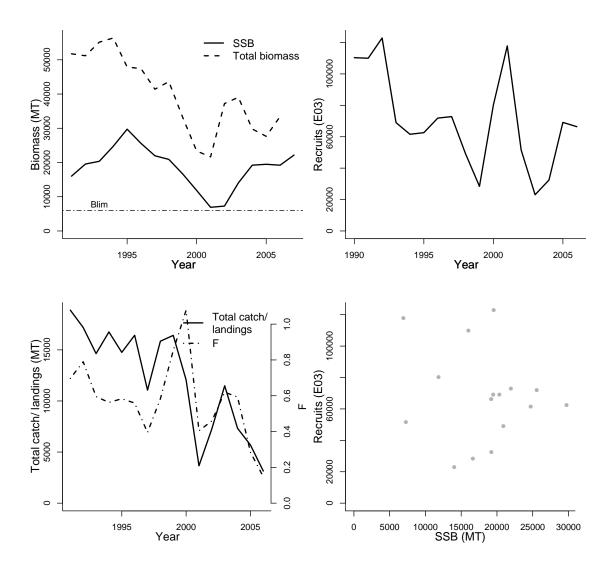
General assessment details.

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units	
SSB-AGE-yr	2.5	yr	-
REC-AGE-yr	1	yr	-
TB-AGE-yr	1+	yr	
A50-yr	2.5	yr	
M-1/T	0.2	1/T	
F-AGE-yr			
M			
L50-cm			-
MORATOR-yr-yr			
LME			

Reference points					
Parameter	Value	Units			
Fpa-1/T (F)	0.4	1/T			
Blim-MT (SSB)	6000	MT			
SSB_{2007}/B_{lim}	3.695				

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	3142.339554	
Time series maximum	29734	122870	1.07795	56370	18884.29321	
Units	MT	E03	1/T	MT	МТ	



Assessment of ICES VIIb-k haddock

(Melanogrammus aeglefinus) Assessment ID:WGSSDS-HADVIIb-k-1993-2006-JENNINGS

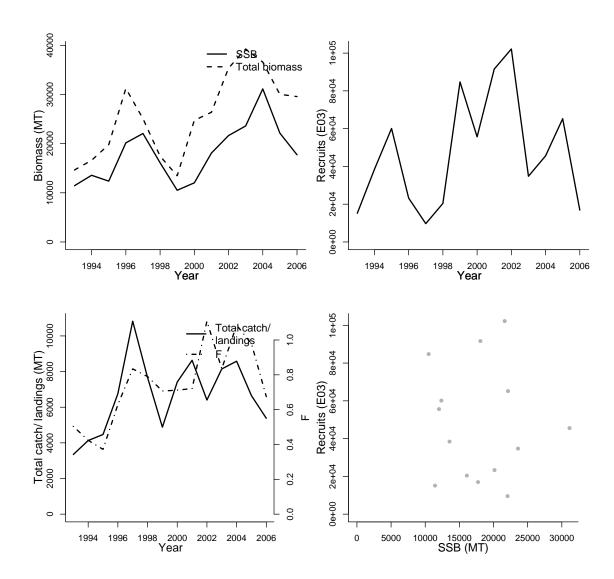
Area ID: multinational-ICES-VIIb-k

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units			
A50-yr	2	yr			
REC-AGE					
SSB-AGE-yr				•	
TB-AGE-yr				nce poin	
F-AGE-yr			Parameter	Value	Units
M					
L50-cm					
MORATOR-yr-yr					
LME					

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

Area ID: multinational-ICES-VIIe-k

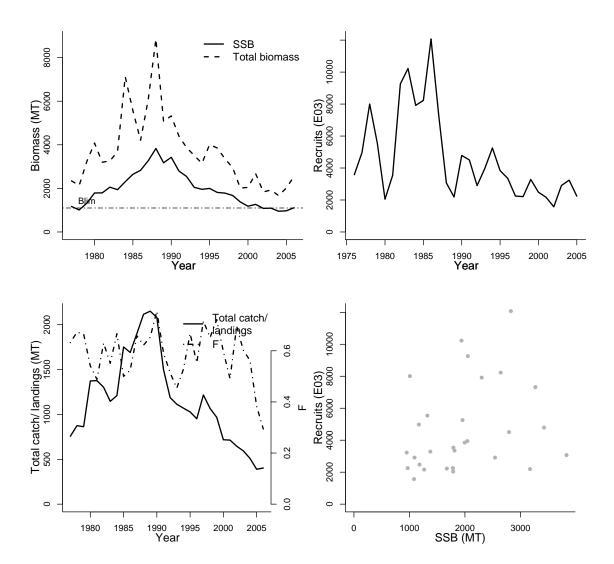
General assessment details.

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	1976-2006
Document	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

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

Parameter	Value	Units			
M-1/T	0.12	1/T			
REC-AGE					
SSB-AGE-yr			Referenc	e points	5
TB-AGE-yr			Parameter	Value	Units
F-AGE-yr			Blim-MT (SSB)	1100	МТ
M			SSB_{2006}/B_{lim}	1.009	171 1
A50-yr				1.003	
L50-cm					
MORATOR-yr-yr					
LME					

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-PLAICECHW-1975-2006-JENNINGS

Area ID: multinational-ICES-VIIe

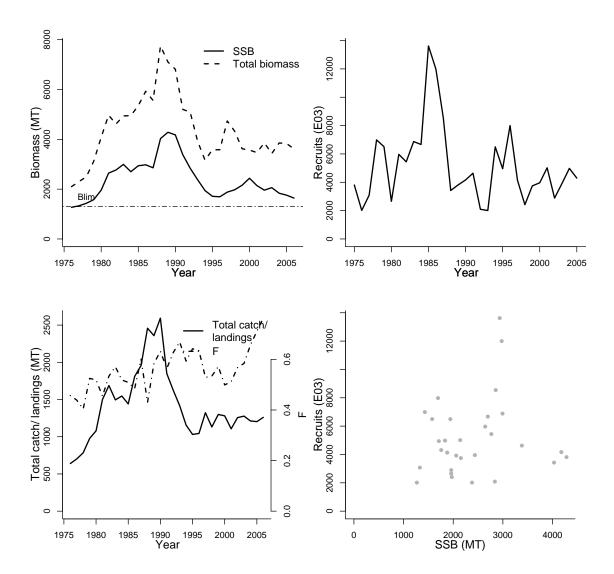
General assessment details.

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.12	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points					
Parameter	Value	Units			
Fpa-1/T (F)	0.45	1/T			
Blim-MT (SSB)	1300	MT			
SSB_{2006}/B_{lim}	1.262				

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

Area ID: multinational-ICES-VIIf-g

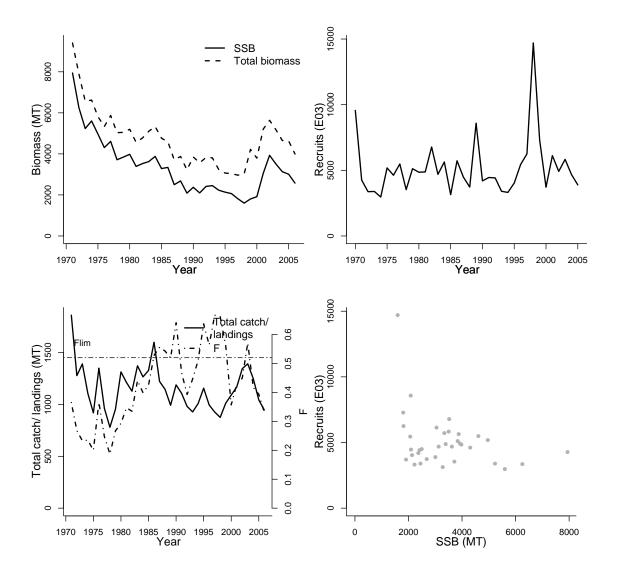
General assessment details.

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.1	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points						
Parameter Value Units						
Flim-1/T (F)	0.52	1/T				
Fpa-1/T (F)	0.37	1/T				
F_{2006}/F_{lim} 0.637						

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

Area ID: multinational-ICES-VIIe

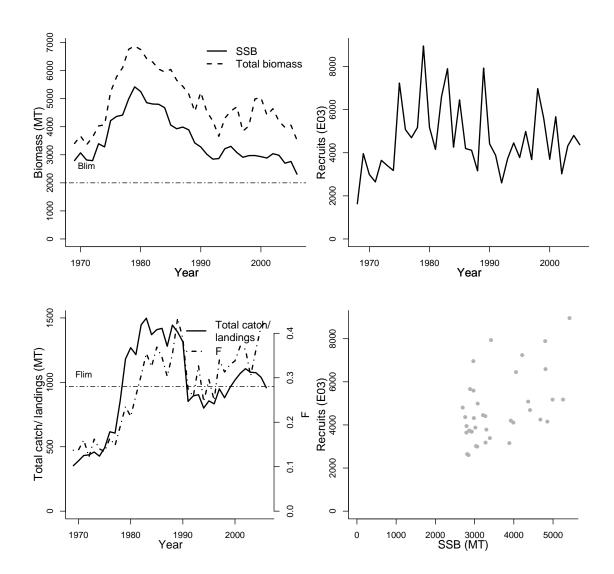
General assessment details.

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	1	yr	
TB-AGE-yr	1+	yr	_
A50-yr	AVAILABLE	yr	
M-1/T	0.1	1/T	
F-AGE-yr			
M			
L50-cm			
MORATOR-yr-yr			-
LME			

Reference points						
Parameter Value Units						
Flim-1/T (F)	0.28	1/T				
Fpa-1/T (F)	0.2	1/T				
Blim-MT (SSB) 2000 MT						
SSB_{2006}/B_{lim} 1.154						
F_{2006}/F_{lim}	1.521					

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

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	NULL (pdf not in database)
Recorder	JENNINGS
Date entered	2008-12-02

Parameter	Value	Units	
SSB-AGE-yr	AVAILABLE	yr	
REC-AGE-yr	0	yr	
TB-AGE-yr	0+	yr	-
A50-yr	AVAILABLE	yr	
M-1/T	0.2	1/T	_
F-AGE-yr			
M			•
L50-cm			
MORATOR-yr-yr			
LME			

Reference points					
Parameter	Value	Units			
Blim-MT (SSB)	15000	MT			

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		

