Dear Coilin,

Thank you sincerely for submitting 37 assessments to 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 follow 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 (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 overleaf.

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 the 'Add response' button on the page. 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 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. 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-1964-2006-MINTO

Area ID: multinational-ICES-I

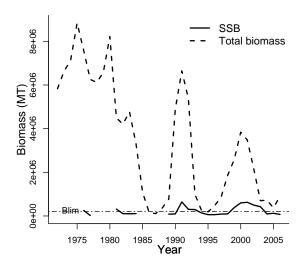
General assessment details.

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	1964-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2009-03-10

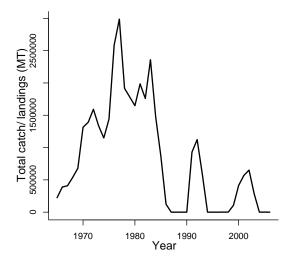
Parameter	Value	Units
SSB-AGE-yr	1+	yr
REC-AGE-yr	1	yr
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points					
Parameter	Value	Units			
Blim-MT (SSB) SSB_{2006}/B_{lim}	200000 0.360	MT			

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



No recruitment data available



No SSB-recruit data available

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

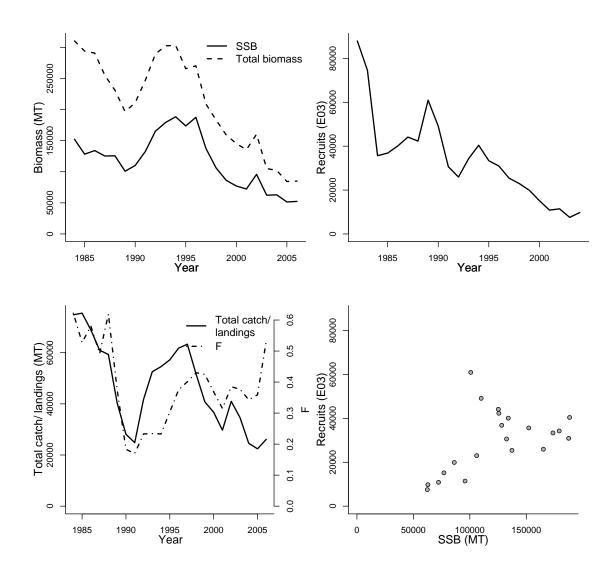
Area ID: multinational-ICES-I-II

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	2009-03-10

Parameter	Value	Units			
A50-yr	5	yr			
SSB-AGE-yr	2+	yr			
REC-AGE-yr	2	yr			
M-1/yr	0.2	1/yr	Referen	nce poin	ıts
TB-AGE-yr			Parameter	_	Units
F-AGE-yr					
M					
L50-cm					
MORATOR-yr-yr					
LME					

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



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

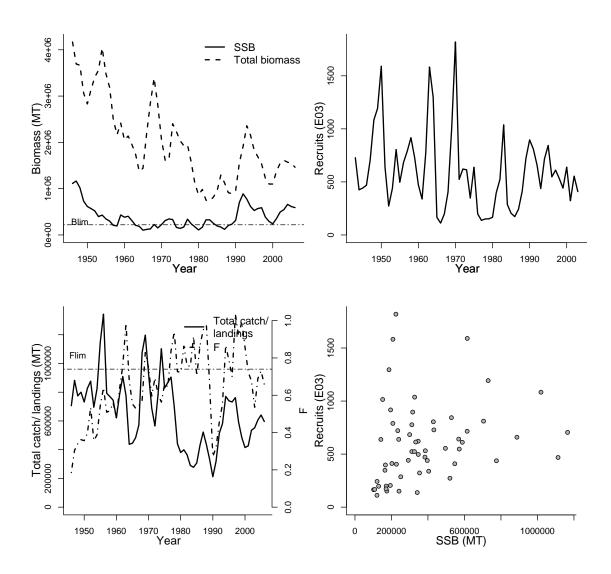
Area ID: multinational-ICES-I-II

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	1943-2006
Document	AFWG-NEAR-Gadusmorhua-2007.pdf
	(pdf not in database)
Recorder	MINTO
Date entered	2009-03-10

Parameter	Value	Units	Referen	ce points	
A50-yr	6.5	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr M-1/yr TB-AGE-yr F-AGE-yr M	3+ 3 0.2	yr yr 1/yr	Blim-MT (SSB) Bpa-MT (SSB) F0.1-1/yr (F) Flim-1/yr (F) Fpa-1/yr (F)	220000 460000 0.15 0.74 0.4	MT MT 1/yr 1/yr
M L50-cm MORATOR-yr-yr LME			Fmax-1/yr (F) SSB_{2006}/B_{lim} F_{2006}/F_{lim}	0.28 2.685 0.889	1/yr

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	112.039	0.1857	738675	212000	
Time series maximum	1165059	1818.949	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

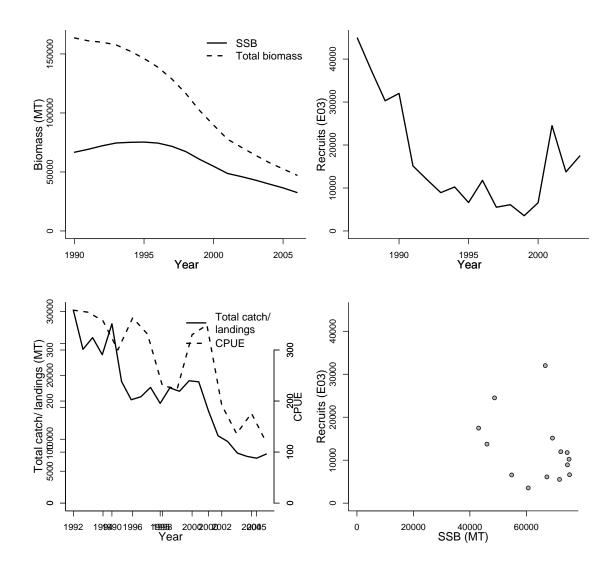
Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anon
Assessment method	Globally Applicable area-Disaggregated
	General Ecosystem Toolbox - An
	ecosystem-based management tool
	used for assessment
Publication year	2007
Timeseries span	1986-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2009-03-10

Parameter	Value	Units			
A50-yr	12	yr			
REC-AGE-yr	3	yr			
SSB-AGE-yr	15+	yr			
M-1/T	0.10	1/T	Referen	nce poin	ıts
TB-AGE-yr			Parameter	-	Units
F-AGE-yr					
M					
L50-cm					
MORATOR-yr-yr					
LME					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1990	1987		1990	1986
Maximum year	2006	2003		2006	2006
Time series minimum	32572	3547		47231	7037
Time series maximum	75317	44912		163536	30203
Units	MT	E03		MT	MT



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

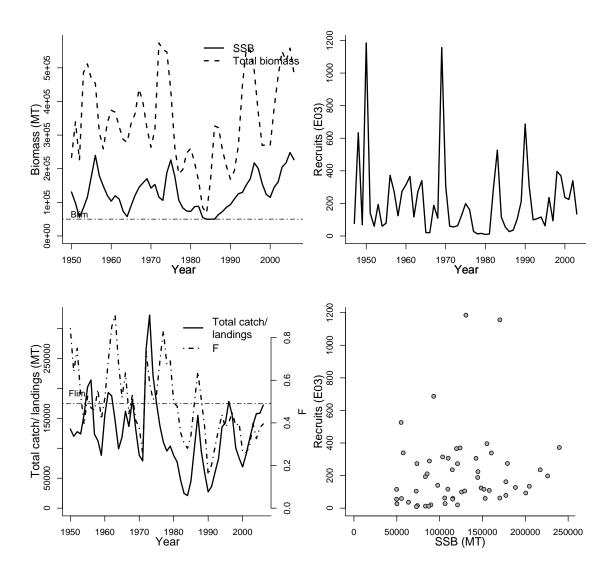
Area ID: multinational-ICES-I-II

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	2009-03-10

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

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	8.961	0.1562	67367	20945	
Time series maximum	248181	1184.843	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

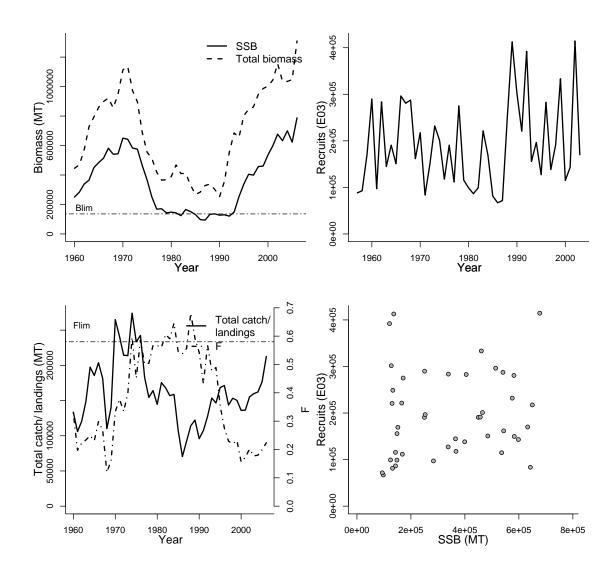
Area ID: multinational-ICES-I-II

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	2009-03-10

Parameter	Value	Units	Referen	ce points	
A50-yr	5	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr	4+ 3	yr yr	Blim-MT (SSB)	136000	MT
M-1/yr	0.2	1/yr	Bpa-MT (SSB)	220000	MT
TB-AGE-yr		. 3	F0.1-1/yr (F) Fmax-1/yr (F)	0.14 0.32	1/yr 1/yr
F-AGE-yr			Flim-1/yr (F)	0.58	1/yr
M L50-cm			Fpa-1/yr (F)	0.35	1/yr
MORATOR-yr-yr			SSB_{2006}/B_{lim}	5.793	
LME			F_{2006}/F_{lim}	0.386	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1960	1957	1960	1960	1960
Maximum year	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 atlantic cod (Gadus morhua) Assessment ID:AFWG-CODNEAR-1943-2006-MINTO

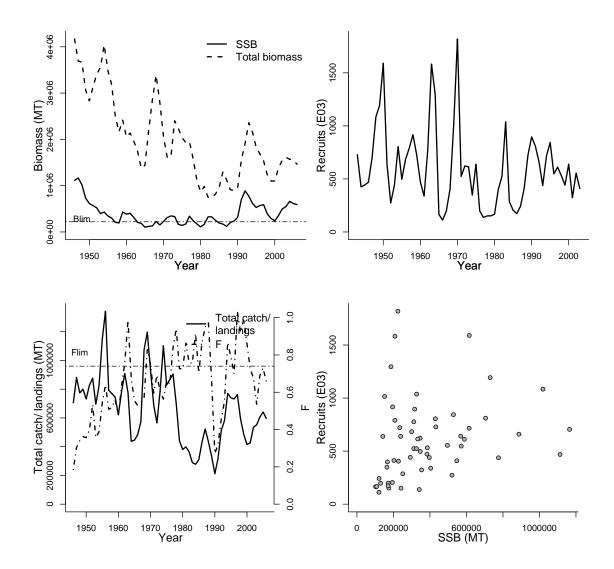
Area ID: multinational-ICES-I-II

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	1943-2006
Document	AFWG-NEAR-Gadusmorhua-2007.pdf
	(pdf not in database)
Recorder	MINTO
Date entered	2009-03-10

Parameter	Value	Units	Referen	ce points	
A50-yr	6.5	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr M-1/yr TB-AGE-yr F-AGE-yr M L50-cm MORATOR-yr-yr	3+ 3 0.2	yr yr 1/yr	Blim-MT (SSB) Bpa-MT (SSB) F0.1-1/yr (F) Flim-1/yr (F) Fpa-1/yr (F) Fmax-1/yr (F) SSB_{2006}/B_{lim} F_{2006}/F_{lim}	220000 460000 0.15 0.74 0.4 0.28 2.685 0.889	MT 1/yr 1/yr 1/yr 1/yr

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	112.039	0.1857	738675	212000	
Time series maximum	1165059	1818.949	1.0347	4168882	1343068	
Units	MT	E03	1/T	MT	MT	



Assessment of 22-24-IIIa herring (Clupea

harengus)
Assessment ID:HAWG-HERR2224IIIa-1991-2006-MINTO

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

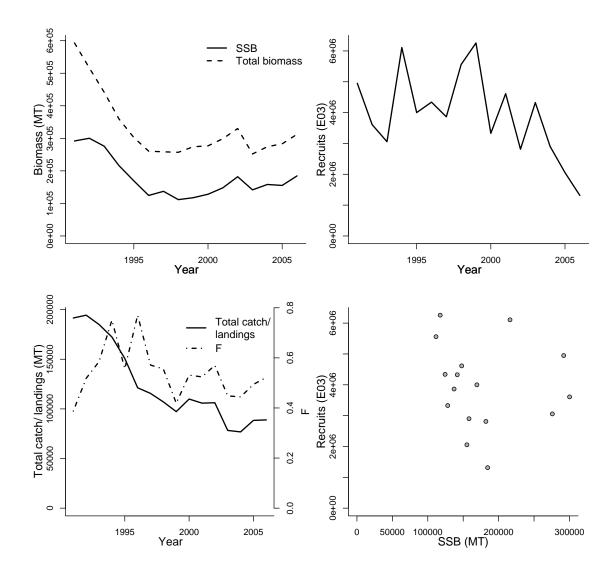
General assessment details.

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	2009-03-10

Parameter	Value	Units
A50-yr	2-3	yr
SSB-AGE-yr	2+	yr
REC-AGE-yr	0	yr
TB-AGE-yr	0+	yr
M-1/yr	0.2 for 2+	1/yr
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points					
Parameter	Value	Units			
F0.1-1/yr (F)	0.22	1/yr			
Fmax-1/yr (F)	0.53	1/yr			

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

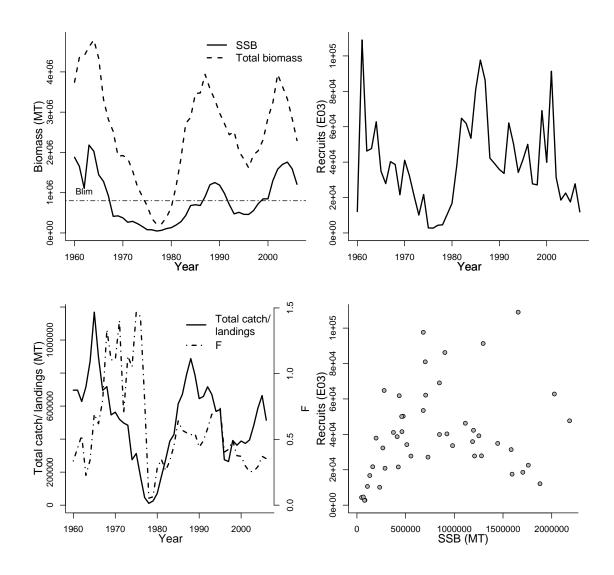
Area ID: multinational-ICES-IV

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	2009-03-10

Parameter	Value	Units			
A50-yr SSB-AGE-yr	2 2+	yr yr	Referen	ice points	
REC-AGE-yr	0	yr	Parameter	Value	Units
TB-AGE-yr	0+	yr	F0.1-1/yr (F)	0.22	1/yr
M-1/yr	0.1 for 4+	1/yr	Fpa-1/yr (F)	0.25	1/yr
F-AGE-yr		•	Bpa-MT (SSB)	1300000	MT
M			Blim-MT (SSB)	800000	MT
L50-cm			SSB_{2006}/B_{lim}	1.510	
MORATOR-yr-yr LME			·		

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 116880							
Units	MT	E03	1/yr	MT	MT		



Assessment of West of Scotland herring (Clupea harengus) Assessment ID:HAWG-HERRVIa-1957-2006-MINTO

Area ID: multinational-ICES-VIa

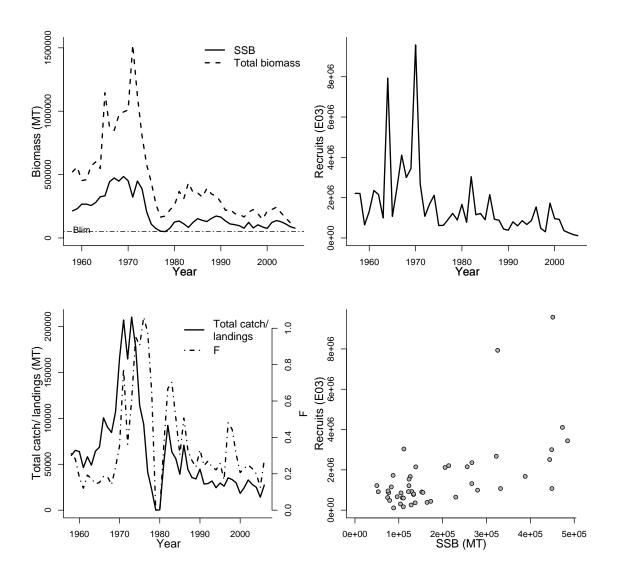
General assessment details.

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	2009-03-10

Parameter	Value	Units
A50-yr	2	yr
SSB-AGE-yr	2+	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
M-1/yr	0.1 for 4+	1/yr
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points					
Parameter	Value	Units			
F0.1-1/yr (F)	0.17	1/yr			
Blim-MT (SSB)	50000	MT			
SSB_{2006}/B_{lim}	1.556				

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/yr	MT	MT	



Assessment of VIa, VIIb and VIIc herring (Clupea

harengus)
Assessment ID:HAWG-HERRVIaVIIbc-1969-2000-MINTO

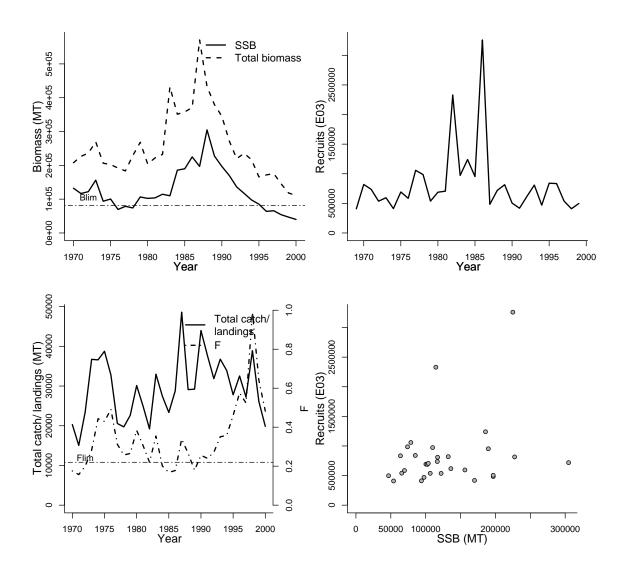
Area ID: multinational-ICES-VIa-VIIb-VIIc

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	2009-03-10

Parameter	Value	Units			
A50-yr	1	vr	Reference points		
SSB-AGE-yr	1+	yr yr	Parameter	Value	Units
REC-AGE-yr	1	yr	Blim-MT (SSB)	81000	MT
TB-AGE-yr	1+	yr	Bpa-MT (SSB)	110000	MT
F-AGE-yr		•	Flim-1/yr (F)	0.22	1/yr
M			Fpa-1/yr (F)	0.33	1/yr
L50-cm			SSB_{2000}/B_{lim}	0.494	
MORATOR-yr-yr			F_{2000}/F_{lim}	2.193	
LME			•		

Time	e series m	inima and	maxima		
	SSB	R	F	TB	Catch
Minimum year	1970	1969	1970	1970	1970
Maximum year	2000	1999	2000	2000	2000
Time series minimum	39994	408071	0.1569	111116	15044
Time series maximum	304867	3259194	0.9901	570764	48600
Units	MT	E03	1/yr	MT	MT



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

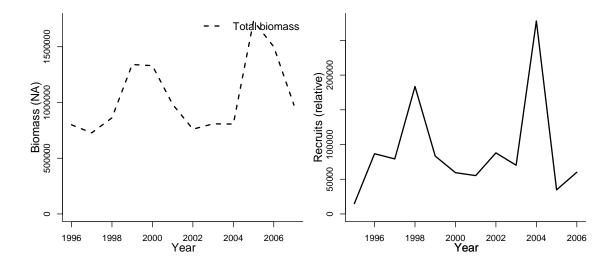
Area ID: multinational-ICES-IV

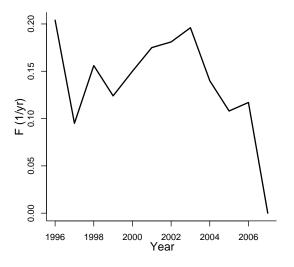
General assessment details.

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	2009-03-10

Parameter	Value	Units			
SSB-AGE-yr	1+	yr			
REC-AGE-yr	1	yr			
TB-AGE-yr	1+	yr			
M-1/yr	0.75	1/yr	Referen	ice poin	ıts
F-AGE-yr			Parameter	-	Units
M					
A50-yr					
L50-cm					
MORATOR-yr-yr					
LME					

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/yr	relative	





No SSB-recruit data available

Assessment of Iceland Grounds capelin (Mallotus villosus) Assessment ID:NWWG-CAPEICE-1977-2007-MINTO

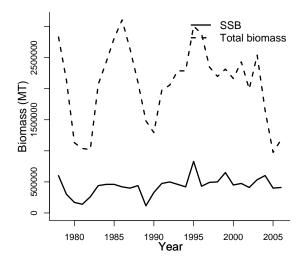
Area ID: multinational-ICES-Va

General assessment details.

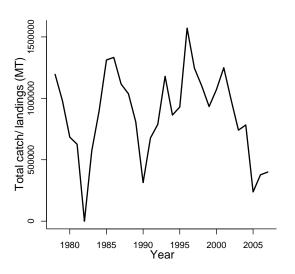
Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	acoustic surveys
Publication year	2007
Timeseries span	1977-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2009-03-10

Parameter	Value	Units			
A50-yr SSB-AGE-yr REC-AGE-yr TB-AGE-yr F-AGE-yr M L50-cm MORATOR-yr-yr	2 2+ 1 NULL	yr yr yr yr yr	Referer Parameter	nce poin Value	its Units

Tim	e series n	ninima and m	axi	ma	
	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



No recruitment data available



No SSB-recruit data available

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

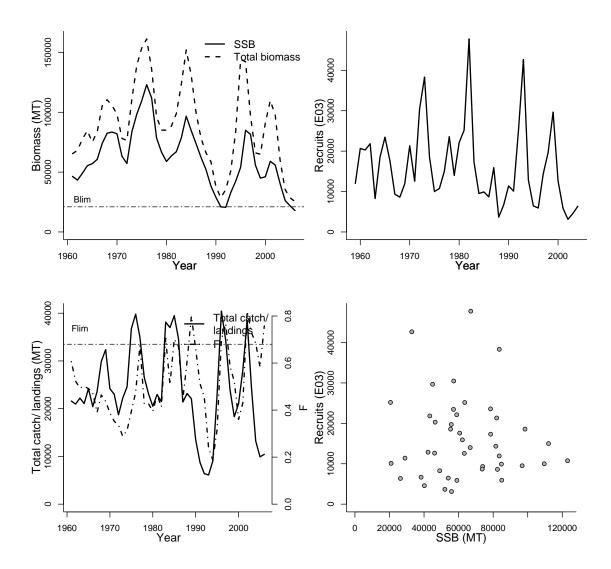
Area ID: multinational-ICES-Vb1

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1959-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2009-03-10

Parameter	Value	Units	Reference	e points	}
A50-yr	3	yr	Parameter	Value	Units
SSB-AGE-yr	2+	yr	Blim-MT (SSB)	21000	MT
REC-AGE-yr	2	yr	Bpa-MT (SSB)	40000	MT
TB-AGE-yr			F0.1-1/yr (F)	0.12	1/yr
F-AGE-yr			Fmax-1/yr (F)	0.25	1/yr
M			Flim-1/yr (F)	0.68	1/yr
L50-cm			Fpa-1/yr (F)	0.35	1/yr
MORATOR-yr-yr			SSB_{2006}/B_{lim}	0.851	,
LME			F_{2006}/F_{lim}	1.115	

Time	series mi	nima and	d maxima	ı	
	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

Area ID: multinational-ICES-Va

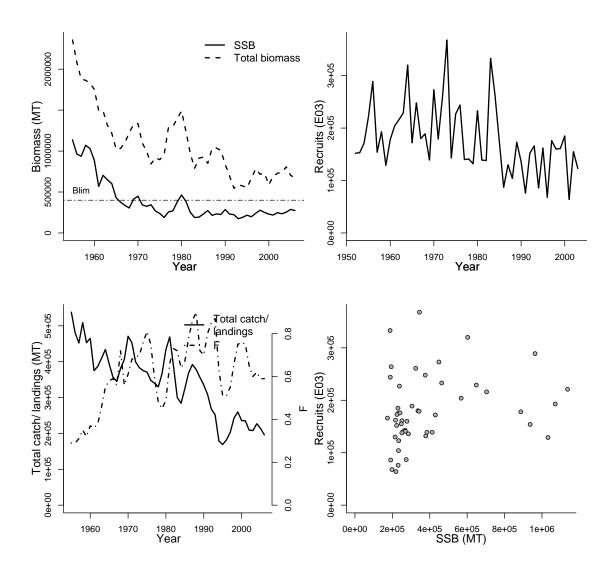
General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2007
Timeseries span	1952-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2009-03-10

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

Reference points					
Parameter	Value	Units			
Blim-MT (SSB)	400000	МТ			
F0.1-1/yr (F)	0.15	1/yr			
Fmax-1/yr (F)	0.34	1/yr			
SSB_{2006}/B_{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-1955-2007-MINTO

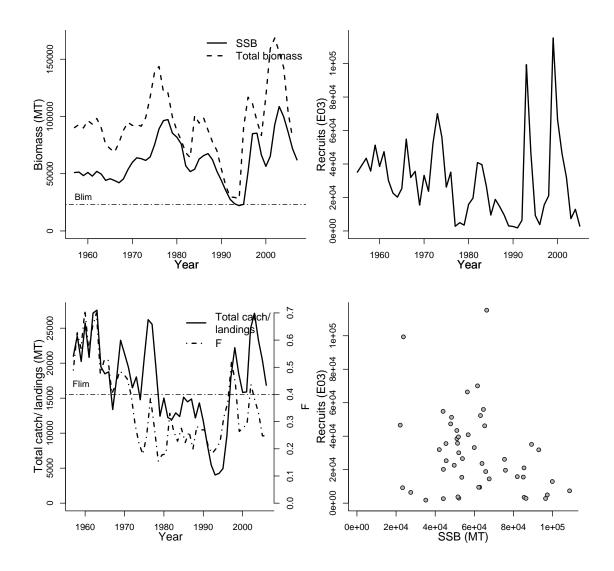
Area ID: multinational-ICES-Vb1

General assessment details.

Detail	Value		
Management body	ICES		
Assessment group	North-Western Working Group		
Assessment authors	Anon		
Assessment method	Extended Survivor Analysis		
Publication year	2007		
Timeseries span	1955-2007		
Document	ICES-NWWG-2007.pdf (pdf in database)		
Recorder	MINTO		
Date entered	2009-03-10		

Parameter	Value	Units	Reference points		
A50-yr	3	yr	Parameter	Value	Units
SSB-AGE-yr	2+	yr	Blim-MT (SSB)	23000	MT
REC-AGE-yr	2	yr	Bpa-MT (SSB)	35000	MT
TB-AGE-yr			F0.1-1/yr (F)	0.15	1/yr
F-AGE-yr			Fmax-1/yr (F)	0.61	1/yr
M			Flim-1/yr (F)	0.4	1/yr
L50-cm			Fpa-1/yr (F)	0.25	1/yr
MORATOR-yr-yr			SSB_{2007}/B_{lim}	2.700	
LME			F_{2007}/F_{lim}	0.619	

Time series minima and maxima						
SSB R F TB Catch						
Minimum year	1957	1955	1957	1957	1957	
Maximum year	2007	2005	2007	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

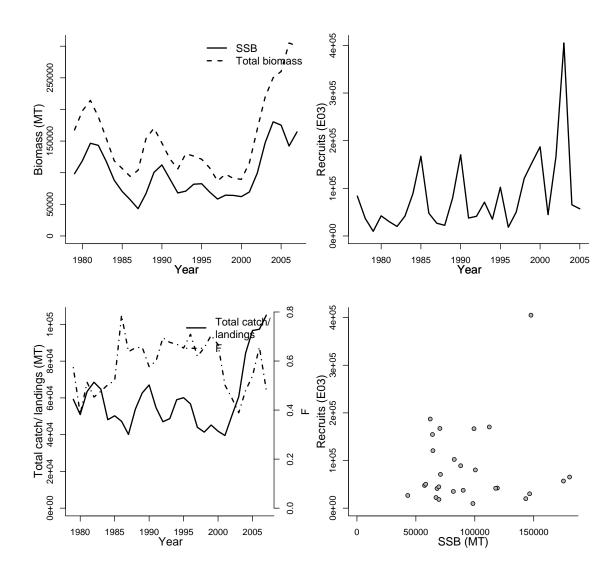
Area ID: multinational-ICES-Va

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	A general approach to fitting VPA models.
	ADAPT is based on minimising the sum-
	of-squares over any number of indices of
	abundance to find best-fit parameters.
Publication year	2007
Timeseries span	1977-2007
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2009-03-10

Parameter	Value	Units			
A50-yr	4	yr			
SSB-AGE-yr	1+	yr		• •	
REC-AGE-yr	2	yr	Reference	-	
TB-AGE-yr	3+	vr	Parameter	Value	Units
M-1/T	0.2	1/T	F0.1-1/yr (F)	0.16	1/yr
F-AGE-yr			Fmax-1/yr (F)	0.44	1/yr
M			Fpa-1/yr (F)	0.47	1/yr
L50-cm					
MORATOR-yr-yr					
LME					
1711117					

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

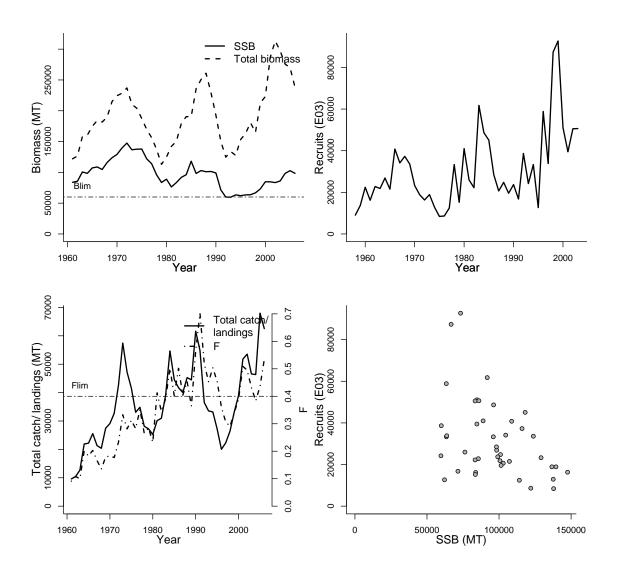
Area ID: multinational-ICES-Vb1

General assessment details.

Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1958-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2009-03-10

Parameter	Value	Units	Reference points				
A50-yr	4	yr	Parameter	Value	Units		
SSB-AGE-yr	3+	yr	Blim-MT (SSB)	60000	MT		
REC-AGE-yr	3	yr	Bpa-MT (SSB)	85000	MT		
TB-AGE-yr		•	F0.1-1/yr (F)	0.14	1/yr		
F-AGE-yr			Fmax-1/yr (F)	0.45	1/yr		
M			Flim-1/yr (F)	0.4	1/yr		
L50-cm			Fpa-1/yr (F)	0.28	1/yr		
MORATOR-yr-yr			SSB_{2006}/B_{lim}	1.640	,		
LME			F_{2006}/F_{lim}	1.336			

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



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

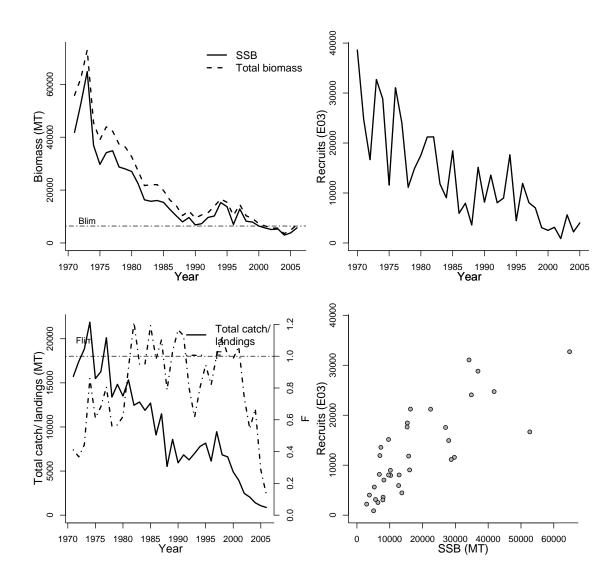
Area ID: multinational-ICES-IIIa

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	2009-03-10

Parameter	Value	Units			
A50-yr SSB-AGE-yr	3 1+	yr yr	Reference Parameter	e points Value	Units
REC-AGE-yr TB-AGE-yr M-1/yr F-AGE-yr M L50-cm MORATOR-yr-yr LME	1 1+ 0.2	yr yr 1/yr	Flim-1/yr (F) Fpa-1/yr (F) Bpa-MT (SSB) Blim-MT (SSB) SSB_{2006}/B_{lim} F_{2006}/F_{lim}	1 0.6 10500 6400 0.892 0.130	1/yr 1/yr MT MT

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	2966	876	0.1299	3521	876		
Time series maximum	64817	38619	1.2141	72999	21880		
Units	MT	E03	1/yr	MT	MT		



Assessment of Irish Sea atlantic cod (Gadus morhua) Assessment ID:WGNSDS-CODIS-1968-2006-MINTO

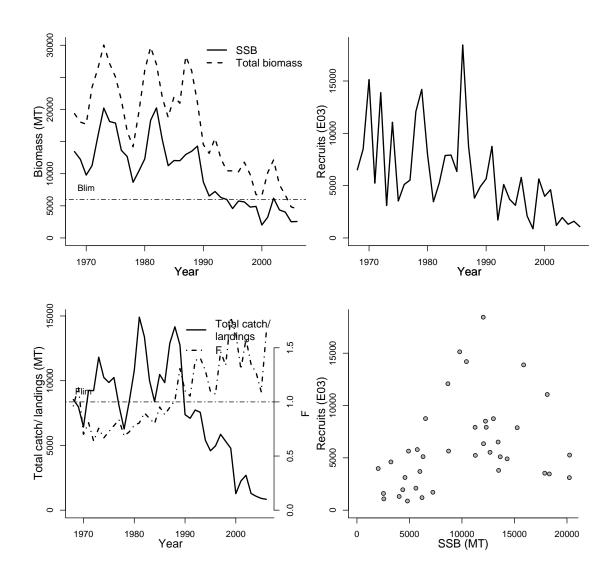
Area ID: multinational-ICES-VIIa

General assessment details.

Detail	Value		
Management body	ICES		
Assessment group	Working Group on the As	ssessmen	t of
	Northern Shelf Demersal St	ocks	
Assessment authors	Anon		
Assessment method	The ADAPT approach with y	ear effec	ts in
	a catch multiplier		
Publication year	2007		
Timeseries span	1968-2006		
Document	ICES-WGNSDS-2007.pdf	(pdf	in
	database)		
Recorder	MINTO		
Date entered	2009-03-10		

Parameter	Value	Units	Reference	e points	,
A50-yr	2	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr	2+ 0	yr yr	Blim-MT (SSB) Bpa-MT (SSB)	6000 10000	MT MT
TB-AGE-yr M-1/T	0+ 0.2	yr 1/T	Fpa-1/yr (F)	0.72	1/yr
F-AGE-yr M		,	Fmax-1/yr (F) Flim-1/yr (F)	0.32 1	1/yr 1/yr
L50-cm			F0.1-1/yr (F) SSB_{2006}/B_{lim}	0.18 0.427	1/yr
MORATOR-yr-yr LME			F_{2006}/F_{lim}	1.644	

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1968	1968	1968	1968	1968		
Maximum year	2006	2006	2006	2006	2006		
Time series minimum	2025	875	0.6386	4537	838		
Time series maximum	20249	18442	1.7828	30044	14907		
Units	MT	E03	1/T	MT	MT		



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

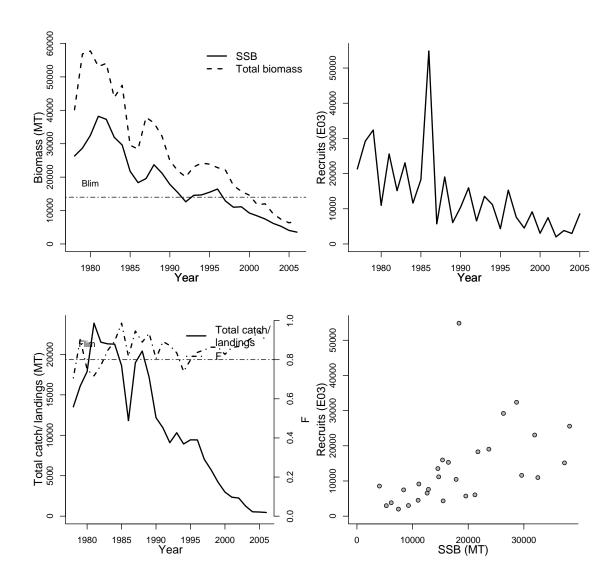
Area ID: multinational-ICES-VIa

General assessment details.

Detail	Value					
Management body	ICES					
Assessment group	Working Group on the Assessment of	ıf				
	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	n				
	database)					
Recorder	MINTO					
Date entered	2009-03-10					

Parameter	Value	Units			
A50-yr SSB-AGE-yr	2 2+	yr yr	Referenc Parameter	e points Value	Units
REC-AGE-yr TB-AGE-yr	1	yr yr yr	Blim-MT (SSB) Bpa-MT (SSB)	14000 22000	MT MT
M-1/T	0.2	1/T	Fpa-1/yr (F)	0.6	1/yr
F-AGE-yr M			Fmax-1/yr (F) Flim-1/T (F)	0.19 0.8	1/yr 1/T
L50-cm MORATOR-yr-yr			SSB_{2006}/B_{lim} F_{2006}/F_{lim}	0.252 1.111	
LME					

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 6332.3 454.5								
Time series maximum 38214.9 54850.9 0.9867 57758.8 23864.								
Units	MT	E03	1/T	MT	MT			



Assessment of Irish Sea haddock (Melanogrammus aeglefinus) Assessment ID:WGNSDS-HADIS-1991-2006-MINTO

Area ID: multinational-ICES-VIIa

General assessment details.

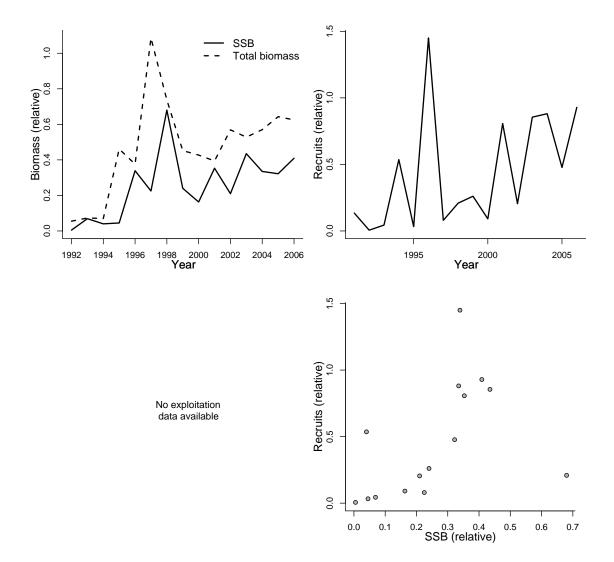
Detail	Value					
Management body	ICES					
Assessment group	Working Group on the Asses	ssment of				
	Northern Shelf Demersal Stock	s				
Assessment authors	Anon					
Assessment method	Survey based stock assessmen	t method				
Publication year	2007					
Timeseries span	1991-2006					
Document	ICES-WGNSDS-2007.pdf (pdf in				
	database)					
Recorder	MINTO					
Date entered	2009-03-10					

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

Units 1/yr 1/yr

Parameter	Value	Units		
A50-yr	2	yr		
SSB-AGE-yr	2+	yr		
REC-AGE-yr	0	yr	Reference	e points
M-1/yr	0.2	1/yr	Parameter	Value
TB-AGE-yr			Fpa-1/yr (F)	0.5
F-AGE-yr			Fmax-1/yr (F)	0.35
M L50-cm				
MORATOR-yr-yr				
LME				

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



Assessment of West of Scotland haddock

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

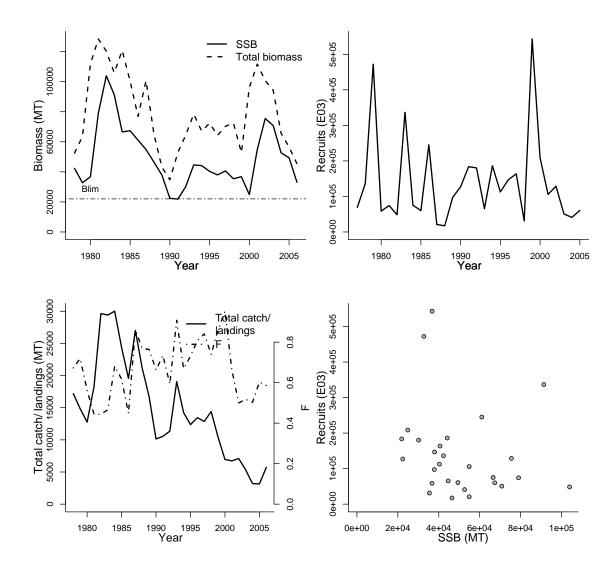
Area ID: multinational-ICES-VIa

General assessment details.

Detail	Value						
Management body	ICES						
Assessment group	Working Group on the Assessment of	ſ					
	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	n					
	database)						
Recorder	MINTO						
Date entered	2009-03-10						

Parameter	Value	Units			
A50-yr SSB-AGE-yr	2 2+	yr yr	Reference Parameter	e points	Units
REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr M L50-cm MORATOR-yr-yr LME	1 1+ 0.2	yr yr 1/T	Blim-MT (SSB) Bpa-MT (SSB) Fpa-1/yr (F) F0.1-1/yr (F) Fmax-1/yr (F) SSB ₂₀₀₆ /B _{lim}	22000 30000 0.5 0.19 0.21 1.501	MT MT 1/yr 1/yr 1/yr

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1978	1977	1978	1978	1978			
Maximum year	2006	2005	2006	2006	2006			
Time series minimum	21880	17434	0.444	34739	3148			
Time series maximum	103933	543159	0.953	128403	30012			
Units	MT	E03	1/T	MT	MT			



Assessment of Irish Sea european plaice

(Pleuronectes platessa)
Assessment ID:WGNSDS-PLAICIS-1962-2006-MINTO

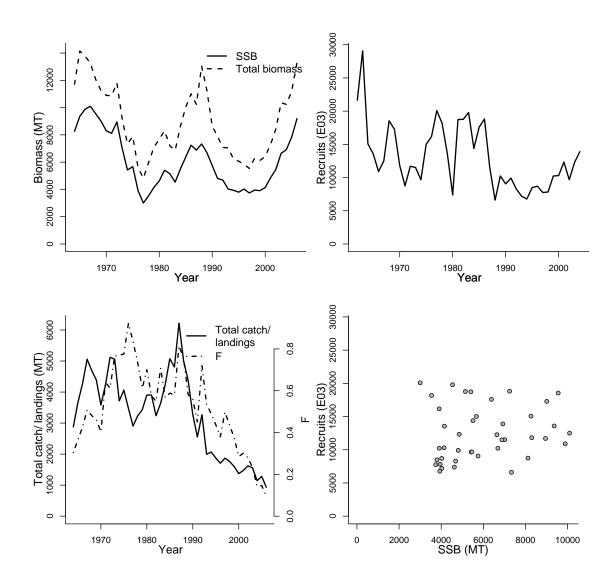
Area ID: multinational-ICES-VIIa

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	2009-03-10						

Parameter	Value	Units			
A50-yr	3	yr			
SSB-AGE-yr	2+	yr	Reference	e point	s
REC-AGE-yr	2	yr	Parameter	Value	Units
TB-AGE-yr M-1/yr	2+ 0.12	yr 1/yr	Fmax-1/yr (F) F0.1-1/yr (F)	0.36 0.13	1/yr 1/yr
F-AGE-yr M L50-cm			Fpa-1/yr (F) Bpa-MT (SSB)	0.45 3100	1/yr MT
MORATOR-yr-yr LME					

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/yr	MT	MT			



Assessment of Irish Sea common european sole (Solea vulgaris) Assessment ID:WGNSDS-SOLEIS-1968-2006-MINTO

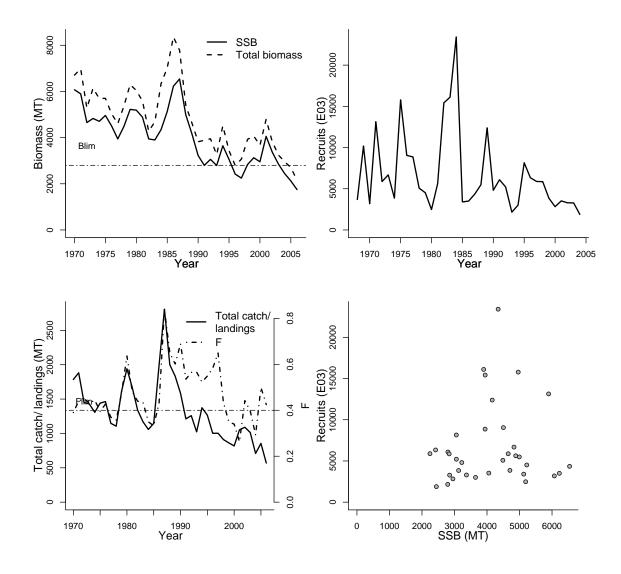
Area ID: multinational-ICES-VIIa

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	2009-03-10						

Parameter	Value	Units			
- Farameter	varue	Units	Referenc	e points	5
A50-yr	2-3	yr	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr TB-AGE-yr M-1/yr F-AGE-yr M L50-cm MORATOR-yr-yr	2+ 2 2+ 0.1	yr yr yr 1/yr	Fmax-1/yr (F) F0.1-1/yr (F) Fpa-1/yr (F) Bpa-MT (SSB) Blim-MT (SSB) Flim-1/yr (F) SSB_{2006}/B_{lim} F_{2006}/F_{lim}	0.51 0.18 0.3 3800 2800 0.4 0.625 1.062	1/yr 1/yr 1/yr MT MT 1/yr

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



Assessment of West of Scotland whiting (Merlangius merlangus) Assessment ID:WGNSDS-WHITVIa-1984-2007-MINTO

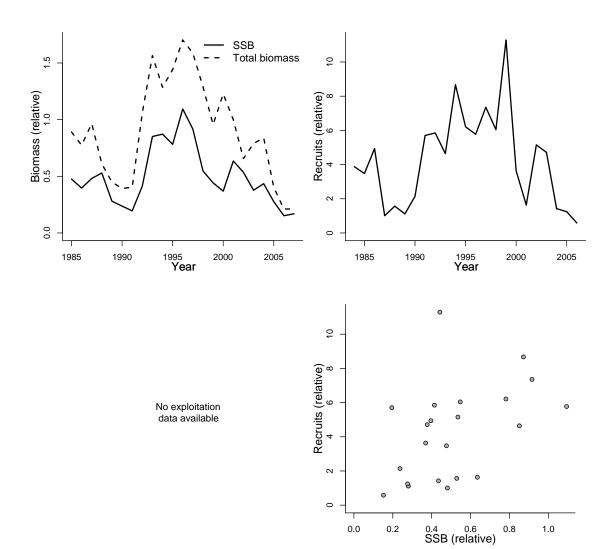
Area ID: multinational-ICES-VIa

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Ass	essmen	t of		
	Northern Shelf Demersal Sto	cks			
Assessment authors	Anon				
Assessment method	Survey based stock assessme	ent metl	nod		
Publication year	2007				
Timeseries span	1984-2007				
Document	ICES-WGNSDS-2007.pdf	(pdf	in		
	database)				
Recorder	MINTO				
Date entered	2009-03-10				

Parameter	Value	Units			
A50-yr SSB-AGE-yr	2 2+	yr yr	Reference Parameter	ce points Value	units
REC-AGE-yr M-1/T TB-AGE-yr F-AGE-yr M L50-cm MORATOR-yr-yr	0.2	yr 1/T	Blim-MT (SSB) Bpa-MT (SSB) Fpa-1/yr (F) Fmax-1/yr (F) Flim-1/T (F) SSB_{2007}/B_{lim}	16000 22000 0.6 0.23 1 0.000	MT MT 1/yr 1/yr 1/T
LME					

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



Assessment of North Sea atlantic cod (Gadus morhua) Assessment ID:WGNSSK-CODNS-1962-2006-MINTO

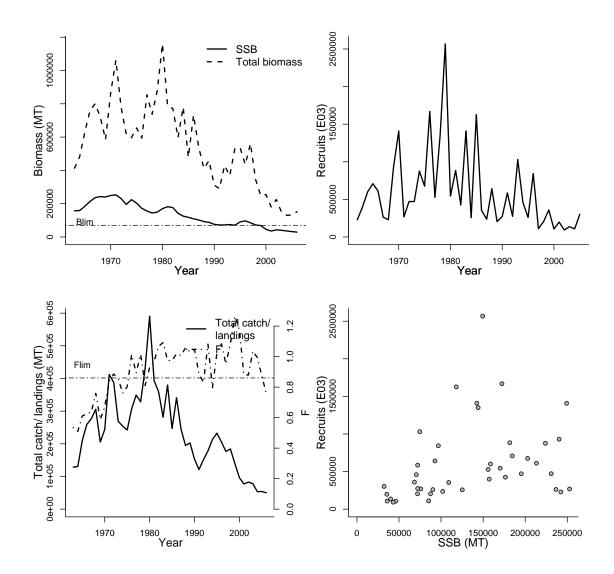
Area ID: multinational-ICES-IV

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak			
Assessment authors	Anon			
Assessment method	The ADAPT approach with year effects in a catch multiplier			
Publication year	2007			
Timeseries span	1962-2006			
Document	ICES-WGNSSK-2007.pdf (pdf in database)			
Recorder	MINTO			
Date entered	2009-03-10			

Parameter	Value	Units			
TB-AGE-yr A50-yr	1+ 3	yr vr	Reference	-	
M-1/T	0.2 for 4+	1/T	Parameter	Value	Units
REC-AGE			Flim-1/T (F)	0.86	1/T
SSB-AGE-yr			Fpa-1/T (F)	0.65	1/T
F-AGE-yr			Blim-MT (SSB)	70000	MT
M			SSB_{2006}/B_{lim}	0.413	
L50-cm			F_{2006}/F_{lim}	0.880	
MORATOR-yr-yr LME					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1963	1962	1963	1963	1963
Maximum year	2006	2005	2006	2006	2006
Time series minimum	28921	93222	0.51	130191	50143
Time series maximum	252747	2566638	1.265	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

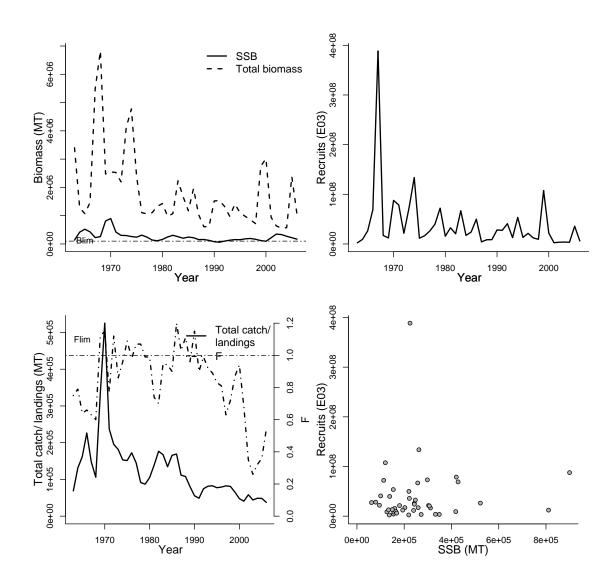
Area ID: multinational-ICES-IIIa-IV

General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak			
Assessment authors	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	2009-03-10			

Parameter	Value	Units			
A50-yr	2	yr	Referen	ce points	
SSB-AGE-yr	1+	yr	Parameter	Value	Units
REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr M L50-cm MORATOR-yr-yr LME	0 0+ Age specific	yr yr 1/T	Blim-MT (SSB) Bpa-MT (SSB) Fpa-1/yr (F) Flim-1/yr (F) SSB_{2006}/B_{lim} F_{2006}/F_{lim}	100000 140000 0.7 1 1.682 0.540	MT MT 1/yr 1/yr

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1963	1963	1963	1963	1963
Maximum year	2006	2006	2006	2006	2006
Time series minimum	61772	2316936	0.26	558318	37565
Time series maximum	899883	388564670	1.2	6823944	525325
Units	MT	E03	1/T	MT	MT



Assessment of North Sea norway pout (*Trisopterus esmarkii*) Assessment ID:WGNSSK-NPOUTNS-1983-2007-MINTO

Area ID: multinational-ICES-IV

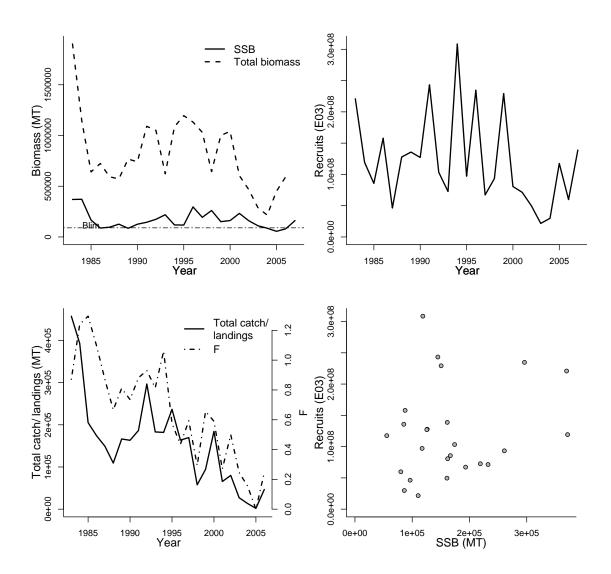
General assessment details.

Detail	Value			
Management body	ICES			
Assessment group	Working Group on the Asse	ssment o	f De-	
	mersal Stocks in the North	Sea and	l Sk-	
	agerrak			
Assessment authors	Anon			
Assessment method	Seasonal XSA			
Publication year	2007			
Timeseries span	1983-2007			
Document	ICES-WGNSSK-2007.pdf	(pdf	in	
	database)			
Recorder	MINTO			
Date entered	2009-03-10			

Parameter	Value	Units
A50-yr	1	yr
SSB-AGE-yr	1+	yr
REC-AGE-yr	0	yr
TB-AGE-yr	0+	yr
M-1/T	0.4	1/T
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points					
Parameter Value Units					
Blim-MT (SSB)	90000	MT			
Bpa-MT (SSB)	150000	MT			
SSB_{2007}/B_{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

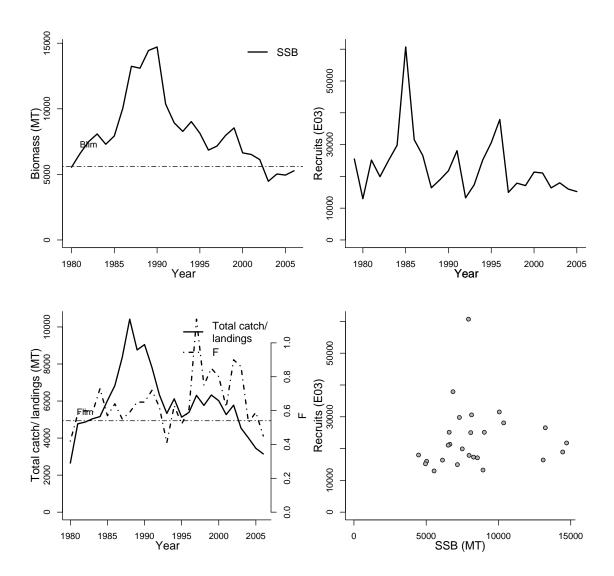
Area ID: multinational-ICES-VIId

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	2009-03-10					

Parameter	Value	Units			
A50-yr SSB-AGE-yr	3 2+	yr yr	Reference Parameter	e points Value	Units
REC-AGE-yr TB-AGE-yr M-1/yr F-AGE-yr M L50-cm MORATOR-yr-yr	1 1+ 0.1	yr yr 1/yr	Blim-MT (SSB) Bpa-MT (SSB) Flim-1/yr (F) Fpa-1/yr (F) SSB_{2006}/B_{lim} F_{2006}/F_{lim}	5600 8000 0.54 0.45 0.942 0.833	MT MT 1/yr 1/yr

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-1976-2005-MINTO

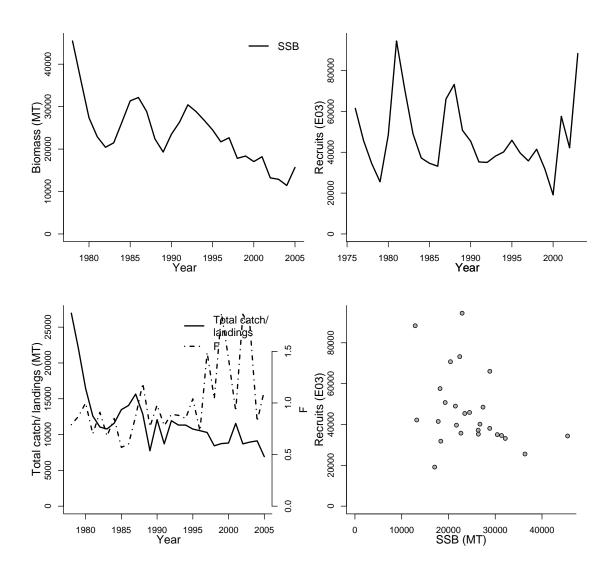
Area ID: multinational-ICES-IIIa

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	1976-2005					
Document	ICES-WGNSSK-2007.pdf	(pdf	in			
	database)					
Recorder	MINTO					
Date entered	2009-03-10					

Parameter	Value	Units			
A50-yr	2	yr			
SSB-AGE-yr	2+	yr			
REC-AGE-yr	2	yr	Referen	ce points	5
M-1/T	0.1	1/T	Parameter	Value	Units
TB-AGE-yr F-AGE-yr			Bpa-MT (SSB)	24000	MT
M			Fpa-1/yr (F)	0.73	1/yr
L50-cm					
MORATOR-yr-yr					
LME					

Time series minima and maxima						
	SSB	R	F	TB	Catch	
Minimum year	1978	1976	1978		1978	
Maximum year	2005	2003	2005		2005	
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

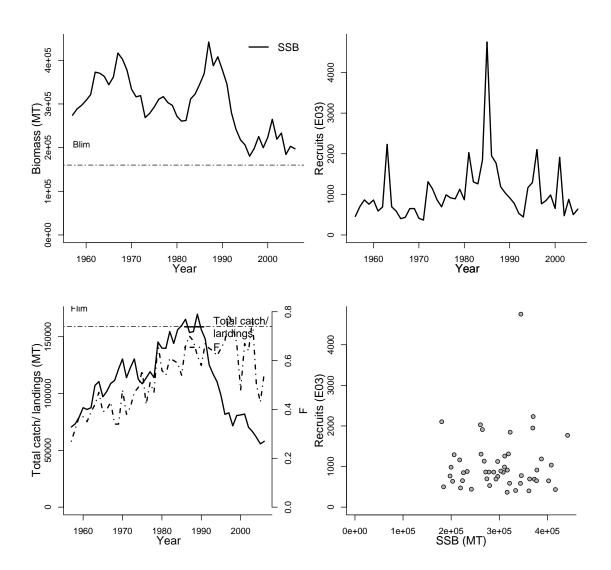
Area ID: multinational-ICES-IV

General assessment details.

Detail	Value					
Management body	ICES					
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak					
Assessment authors	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	2009-03-10					

Parameter	Value	Units			
A50-yr	3 2+	yr	Referen Parameter	ce points Value	Units
SSB-AGE-yr REC-AGE-yr	1	yr yr	Blim-MT (SSB)	160000	MT
M-1/T TB-AGE-yr	0.1	1/T	Bpa-MT (SSB) Fpa-1/yr (F)	230000 0.6	MT 1/yr
F-AGE-yr M			Flim-1/yr (F) F0.1-1/yr (F)	0.74 0.17	1/yr 1/yr
L50-cm			SSB_{2006}/B_{lim}	1.233	1/31
MORATOR-yr-yr LME			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

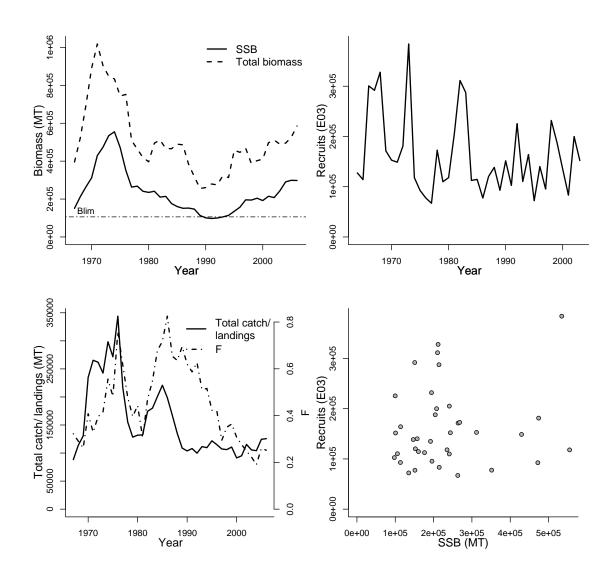
Area ID: multinational-ICES-IIIa-IV-VI

General assessment details.

Detail	Value					
Management body	ICES					
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak					
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	2009-03-10					

Parameter	Value	Units			
A50-yr	4	yr	Referen	ce points	
SSB-AGE-yr	4+	yr	Parameter	Value	Units
REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr M L50-cm MORATOR-yr-yr LME	3 3+ 0.2	yr yr 1/T	Blim-MT (SSB) Bpa-MT (SSB) Fpa-1/yr (F) F0.1-1/yr (F) Fmax-1/yr (F) SSB_{2006}/B_{lim}	106000 200000 0.4 0.11 0.22 2.811	MT MT 1/yr 1/yr 1/yr

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

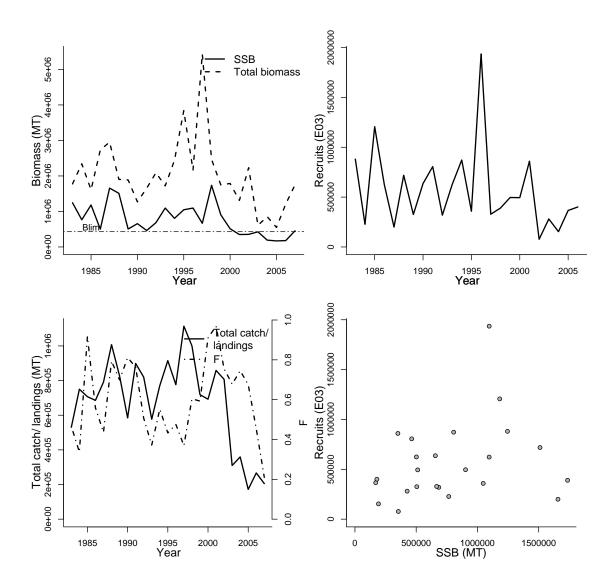
Area ID: multinational-ICES-IV

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	Seasonal XSA					
Publication year	2007					
Timeseries span	1983-2007					
Document	ICES-WGNSSK-2007.pdf	(pdf	in			
	database)					
Recorder	MINTO					
Date entered	2009-03-10					

Parameter	Value	Units			
A50-yr	2	yr			
SSB-AGE-yr	2+	yr	Deferen		
REC-AGE-yr	0	yr		ce points	TT *
M-1/T	0.2 for 1+	1/T	Parameter	Value	Uni
TB-AGE-yr			Blim-MT (SSB)	430000	MT
F-AGE-yr			Bpa-MT (SSB)	600000	MT
M			SSB_{2007}/B_{lim}	1.057	
L50-cm					
MORATOR-yr-yr					
LME					

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	77203	0.21	549532	171790	
Time series maximum	1735847	1935600	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

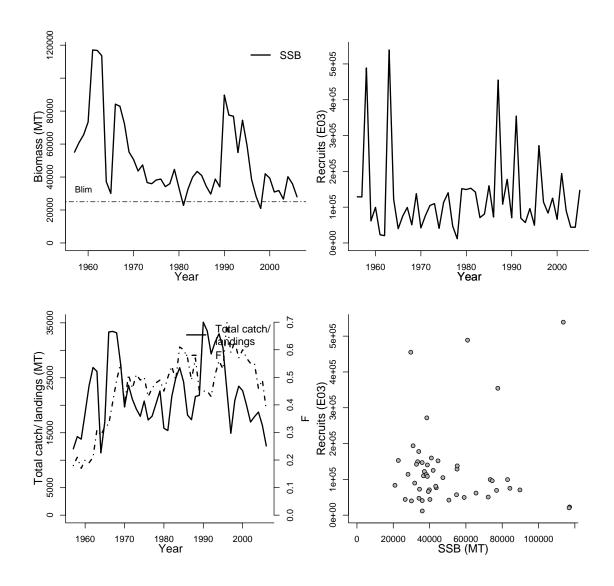
Area ID: multinational-ICES-IV

General assessment details.

Detail	Value				
Management body	ICES				
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak				
Assessment authors	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	2009-03-10				

Parameter	Value	Units			
A50-yr	3	yr	Reference	e points	,
SSB-AGE-yr	3+	yr	Parameter	Value	Units
REC-AGE-yr M-1/T TB-AGE-yr F-AGE-yr M L50-cm MORATOR-yr-yr LME	1 0.1	yr 1/T	Blim-MT (SSB) Bpa-MT (SSB) Fpa-1/yr (F) F0.1-1/yr (F) Fmax-1/yr (F) SSB_{2006}/B_{lim}	25000 35000 0.4 0.316 0.51 1.120	MT MT 1/yr 1/yr 1/yr

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	11727	0.17		11342		
Time series maximum	117094	538987	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

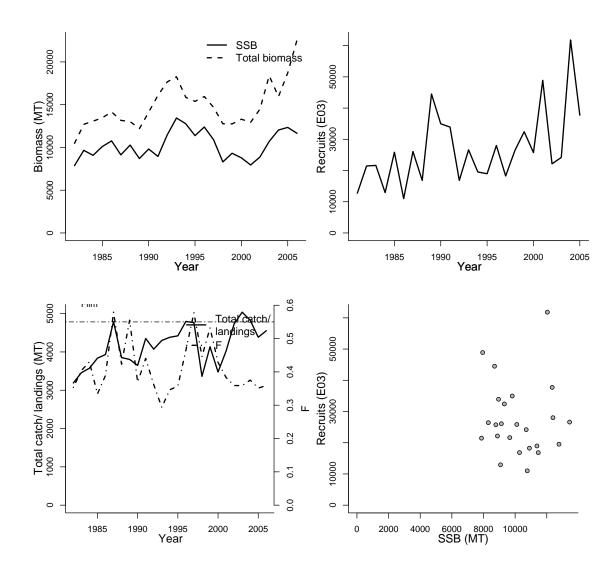
Area ID: multinational-ICES-VIId

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	1981-2006				
Document	ICES-WGNSSK-2007.pdf	(pdf	in		
	database)	_			
Recorder	MINTO				
Date entered	2009-03-10				

Parameter	Value	Units			
A50-yr	3	yr	Reference	e point	s
SSB-AGE-yr	3+	yr	Parameter	Value	Units
REC-AGE-yr TB-AGE-yr M-1/T F-AGE-yr M L50-cm MORATOR-yr-yr LME	1 1+ 0.1	yr yr 1/T	Bpa-MT (SSB) Fpa-1/yr (F) Flim-1/yr (F) F0.1-1/yr (F) Fmax-1/yr (F) F_{2006}/F_{lim}	8000 0.4 0.55 0.13 0.3 0.653	MT 1/yr 1/yr 1/yr 1/yr

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

Area ID: multinational-ICES-IIIa-IV-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	2009-03-10				

Parameter	Value	Units	Reference points		
A50-yr	1	yr	Parameter	Value	Units
SSB-AGE-yr	1+	yr	Blim-MT (SSB)	225000	MT
REC-AGE-yr TB-AGE-yr	1 1+	yr	Bpa-MT (SSB)	315000	MT
M-1/T	Age specific	yr 1/T	Fpa-1/yr (F)	0.65	1/yr
F-AGE-yr	rige specific	1/1	F0.1-1/yr (F)	0.1	1/yr
M			Fmax-1/yr (F)	0.19	1/yr
L50-cm			Flim-1/yr (F)	0.9	1/yr
MORATOR-yr-yr			SSB_{2006}/B_{lim}	0.431	
LME			F_{2006}/F_{lim}	0.578	

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	13583
Time series maximum	521533	4423048	1.12	837376	100810
Units	MT	E03	1/T	MT	MT

