

Dear Colleague,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 64 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.

## Contents

QA/QC steps . . . . .	1
QA/QC submission process . . . . .	1
AFWG-CAPENOR-1965-2007-MINTO . . . . .	3
AFWG-CODCOASTNOR-1982-2006-MINTO . . . . .	5
AFWG-CODNEAR-1943-2006-MINTO . . . . .	7
AFWG-GHALNEAR-1959-2007-JENNINGS . . . . .	9
AFWG-GOLDREDNEAR-1986-2006-MINTO . . . . .	11
AFWG-HADNEAR-1947-2006-MINTO . . . . .	13
AFWG-POLLNEAR-1957-2006-MINTO . . . . .	15
AFWG-REDDEEPI-II-1985-2006-MINTO . . . . .	17
HAWG-HERR2224IIIa-1991-2006-MINTO . . . . .	19
HAWG-HERRNIRS-1960-2006-JENNINGS . . . . .	21
HAWG-HERRNS-1960-2007-MINTO . . . . .	23
HAWG-HERRVIa-1957-2006-MINTO . . . . .	25
HAWG-HERRVIaVIIbc-1969-2000-MINTO . . . . .	27
HAWG-SPRATNS-1995-2007-MINTO . . . . .	29
NWWG-CAPEICE-1977-2007-MINTO . . . . .	31
NWWG-CODFAPL-1959-2006-MINTO . . . . .	33
NWWG-CODICE-1952-2006-MINTO . . . . .	35
NWWG-HADFAPL-1955-2006-MINTO . . . . .	37
NWWG-HADICE-1977-2007-MINTO . . . . .	39
NWWG-POLLFAPL-1958-2006-MINTO . . . . .	41
WGBFAS-CODBA2224-1969-2007-JENNINGS . . . . .	43
WGBFAS-CODBA2532-1964-2007-JENNINGS . . . . .	45
WGBFAS-CODKAT-1970-2006-MINTO . . . . .	47
WGBFAS-HERR2532-1973-2006-JENNINGS . . . . .	49
WGBFAS-HERR30-1972-2007-JENNINGS . . . . .	51
WGBFAS-HERR31-1979-2006-JENNINGS . . . . .	53
WGBFAS-HERRIsum-1983-2007-JENNINGS . . . . .	55
WGBFAS-HERRRIGA-1976-2007-JENNINGS . . . . .	57
WGBFAS-SOLEIIIa-1982-2007-JENNINGS . . . . .	59
WGBFAS-SPRAT22-32-1973-2007-JENNINGS . . . . .	61
WGHMM-FMEG8c9a-1986-2006-JENNINGS . . . . .	63
WGHMM-HAKENRTN-1977-2007-JENNINGS . . . . .	65
WGHMM-HAKESOTH-1982-2007-JENNINGS . . . . .	67
WGHMM-MEG8c9a-1985-2007-JENNINGS . . . . .	69
WGHMM-SOLEVIII-1982-2006-JENNINGS . . . . .	71
WGMHSA-ANCHOBAYB-1986-2007-JENNINGS . . . . .	73
WGMHSA-MACKNEICES-1972-2007-JENNINGS . . . . .	75
WGMHSA-SARDPVIIIc-IXa-1978-2007-JENNINGS . . . . .	77
WGNPBW-BWHITNEA-1980-2007-JENNINGS . . . . .	79
WGNSDS-CODIS-1968-2006-MINTO . . . . .	81
WGNSDS-CODVIa-1977-2006-MINTO . . . . .	83
WGNSDS-HADIS-1972-2006-MINTO . . . . .	85
WGNSDS-HADVIa-1977-2006-MINTO . . . . .	87
WGNSDS-PLAICIS-1962-2006-MINTO . . . . .	89
WGNSDS-SOLEIS-1968-2006-MINTO . . . . .	91
WGNSDS-WHITVIa-1984-2007-MINTO . . . . .	93
WGNSSK-CODNS-1962-2007-MINTO . . . . .	95
WGNSSK-HADNS-IIIa-1963-2006-MINTO . . . . .	97
WGNSSK-HADROCK-1990-2007-JENNINGS . . . . .	99
WGNSSK-NPOUTNS-1983-2007-MINTO . . . . .	101
WGNSSK-PLAIC7d-1979-2006-MINTO . . . . .	103
WGNSSK-PLAICIIIa-1976-2006-MINTO . . . . .	105
WGNSSK-PLAICNS-1956-2006-MINTO . . . . .	107
WGNSSK-POLLNS-VI-IIIa-1964-2006-MINTO . . . . .	109
WGNSSK-SEELNS-1983-2007-MINTO . . . . .	111

WGNSSK-SOLENS-1956-2006-MINTO . . . . .	113
WGNSSK-SOLEVIIId-1981-2006-MINTO . . . . .	115
WGNSSK-WHITNS-VIIId-IIIa-1979-2006-MINTO . . . . .	117
WGSSDS-HADVIIb-k-1993-2006-JENNINGS . . . . .	119
WGSSDS-PLAICCELT-1976-2006-JENNINGS . . . . .	121
WGSSDS-PLAICECHW-1975-2006-JENNINGS . . . . .	123
WGSSDS-SOLECS-1970-2006-JENNINGS . . . . .	125
WGSSDS-SOLEVIIe-1968-2006-JENNINGS . . . . .	127
WGSSDS-WHITVIIek-1982-2007-JENNINGS . . . . .	129
LME map . . . . .	131

# Assessment of Barents Sea capelin (*Mallotus villosus*)

Assessment ID: AFWG-CAPENOR-1965-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/362>

Area ID: multinational-ICES-I

General assessment details.

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

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

	primary LME	secondary LME	tertiary LME
	20 - Barents Sea	na	na

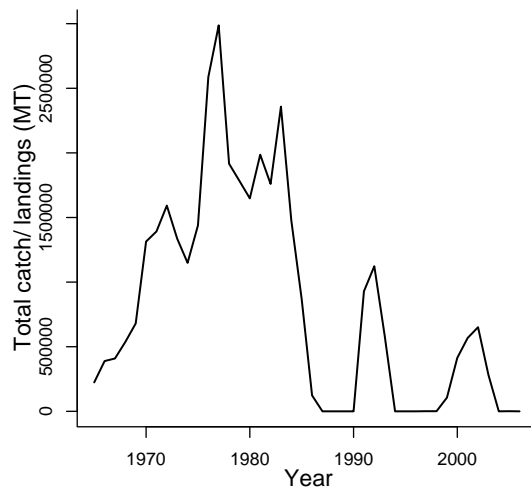
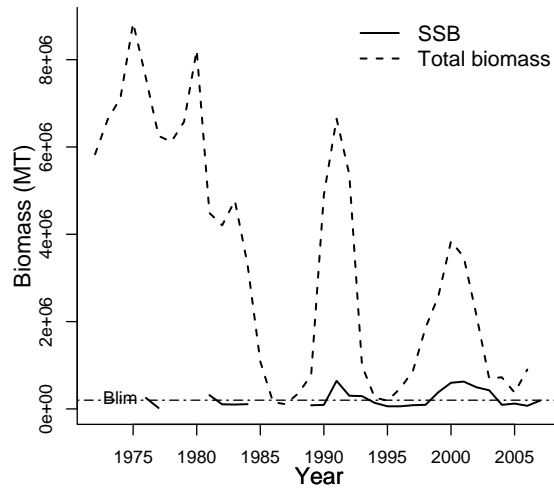
  

Parameter	Value	Units
SSB-AGE-yr	2+	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
M-1/T	AVAILABLE	1/T
MORATOR-yr-yr	1986-1991	yr-yr
MORATOR-yr-yr	1993-1999	yr-yr
MORATOR-yr-yr	2004-2006	yr-yr
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
Blim-MT (SSB)	200000	MT
MORATOR-yr-yr	1986-1991	yr-yr
MORATOR-yr-yr	1993-1999	yr-yr
MORATOR-yr-yr	2004-2006	yr-yr
$SSB_{2007}/B_{lim}$	0.945	

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



# Assessment of North-East Arctic atlantic cod (*Gadus morhua*)

Assessment ID:AFWG-CODCOASTNOR-1982-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/363>

Area ID: multinational-ICES-I-II

General assessment details.

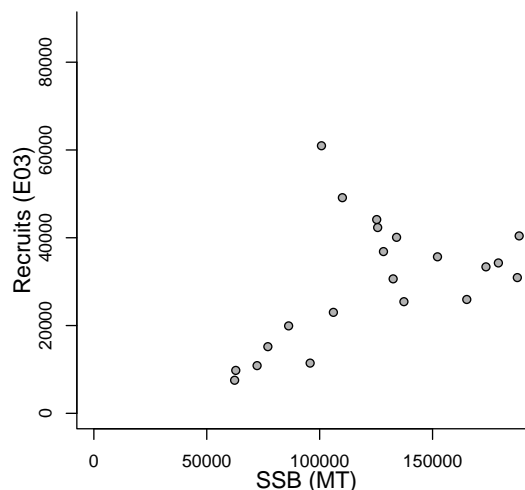
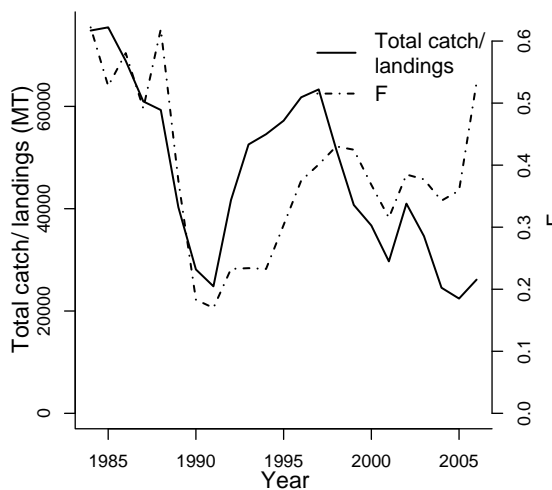
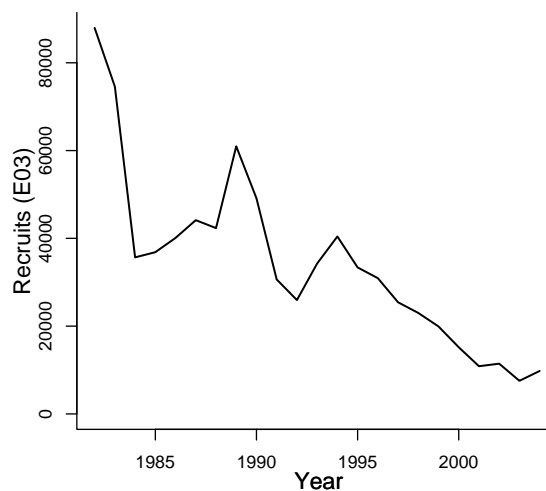
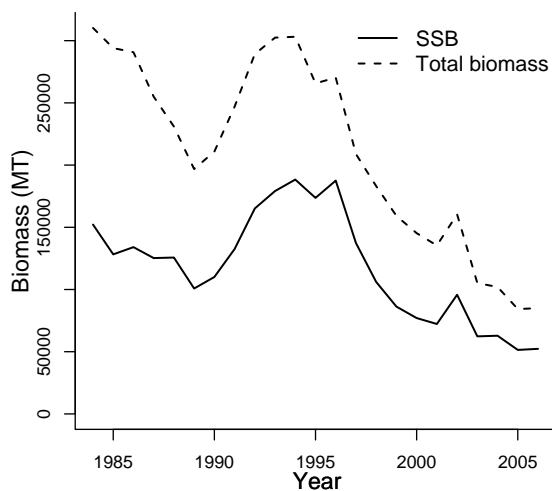
Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anon
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1982-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-03-24
Date last loaded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

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

primary LME		secondary LME	tertiary LME
21 - Norwegian Sea		22 - North Sea	na
Parameter	Value	Units	Reference points Parameter Value Units
A50-yr	5	yr	
SSB-AGE-yr	2+	yr	
REC-AGE-yr	2	yr	
F-AGE-yr-yr	4-7	yr-yr	
M-1/T	0.2	1/T	
TB-AGE-yr	2+	yr	
M			
L50-cm			
MORATOR-yr-yr			

**Time series minima and maxima**

	SSB	R	F	TB	Catch
Minimum year	1984	1982	1984	1984	1984
Maximum year	2006	2004	2006	2006	2006
Time series minimum	51445	7539	0.1699	84309	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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/364>

Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anon
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1943-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-02-15
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

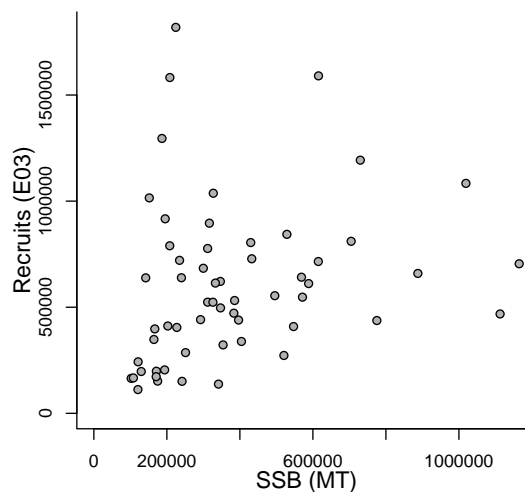
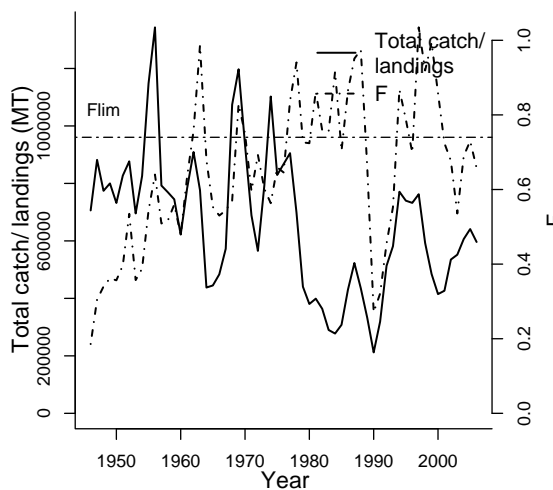
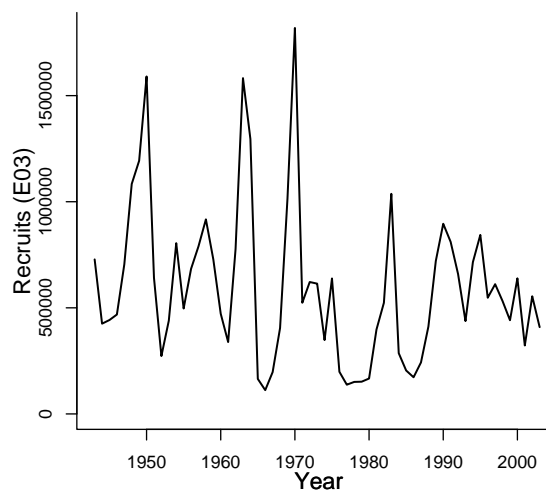
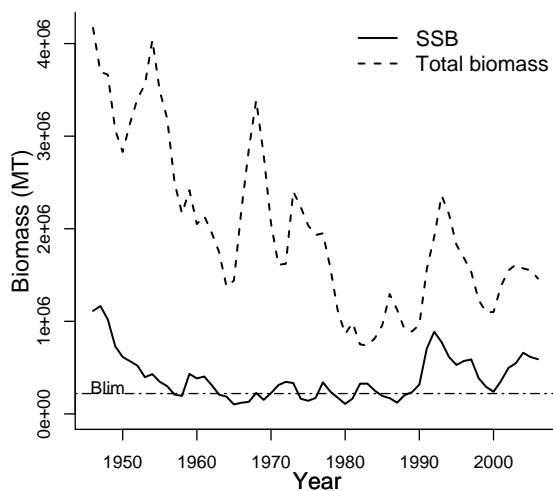
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME		tertiary LME	
20 - Barents Sea			21 - Norwegian Sea		na	
Parameter	Value	Units	Reference points			
			Parameter	Value	Units	
A50-yr	6.5	yr				
SSB-AGE-yr	3+	yr	Blim-MT (SSB)	220000	MT	
REC-AGE-yr	3	yr	Bpa-MT (SSB)	460000	MT	
F-AGE-yr-yr	5-10	yr-yr	F0.1-1/T	0.15	1/T	
M-1/T	0.2	1/T	Flim-1/T (F)	0.74	1/T	
TB-AGE-yr	3+	yr	Fpa-1/T (F)	0.4	1/T	
M			Fmax-1/T	0.28	1/T	
L50-cm			$SSB_{2006}/B_{lim}$	2.685		
MORATOR-yr-yr			$F_{2006}/F_{lim}$	0.889		



**Time series minima and maxima**

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



# Assessment of North-East Arctic 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

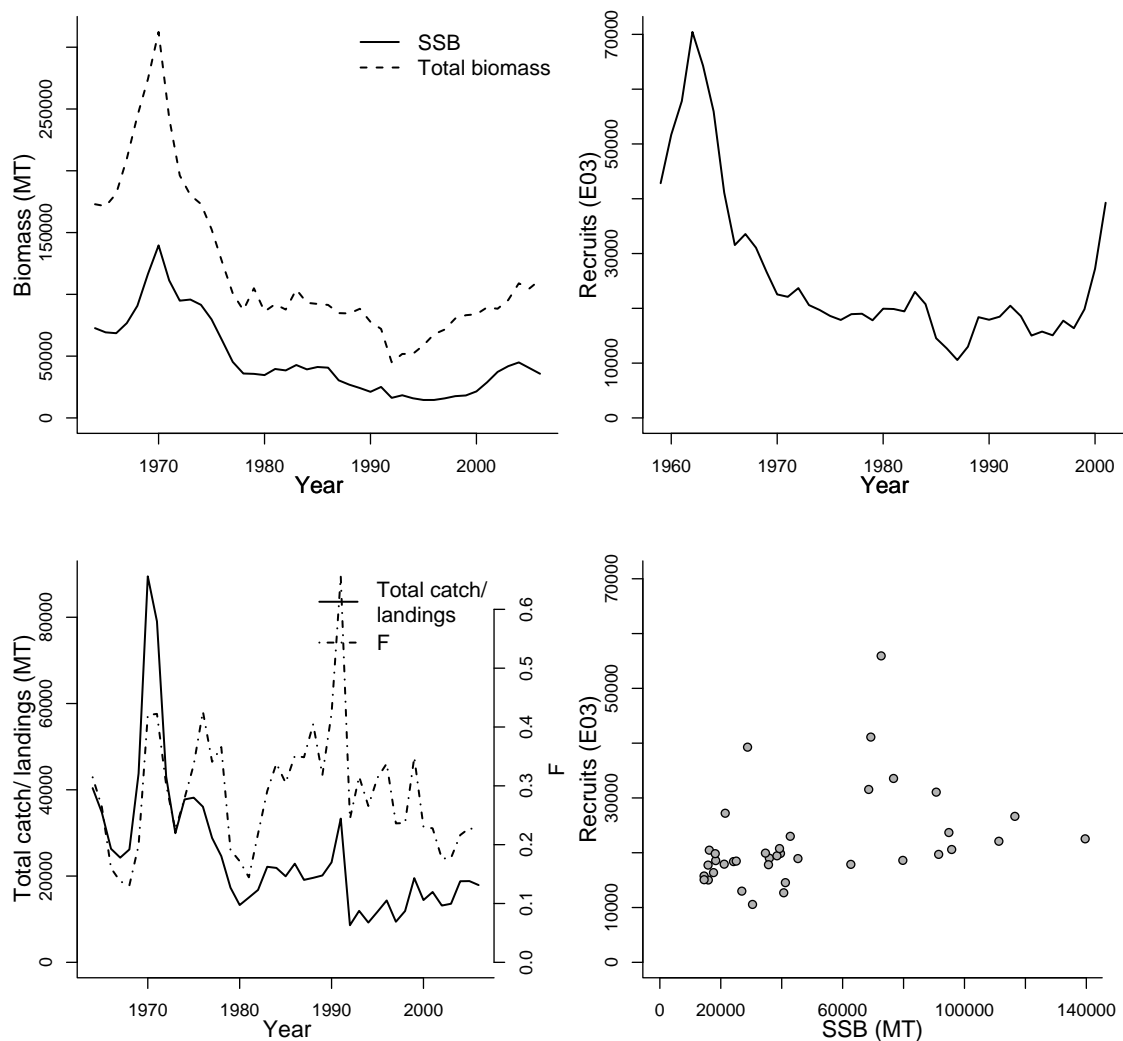
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	5	yr
F-AGE-yr-yr	6 to 10	yr-yr
TB-AGE-yr	5+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.15	1/T
M		
L50-cm		
MORATOR-yr-yr		

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 North-East Arctic golden redfish (*Sebastes norvegicus*)

Assessment ID:AFWG-GOLDREDNEAR-1986-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/365>

Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	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	2008-04-07
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

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

	primary LME	secondary LME	tertiary LME
	20 - Barents Sea	21 - Norwegian Sea	na

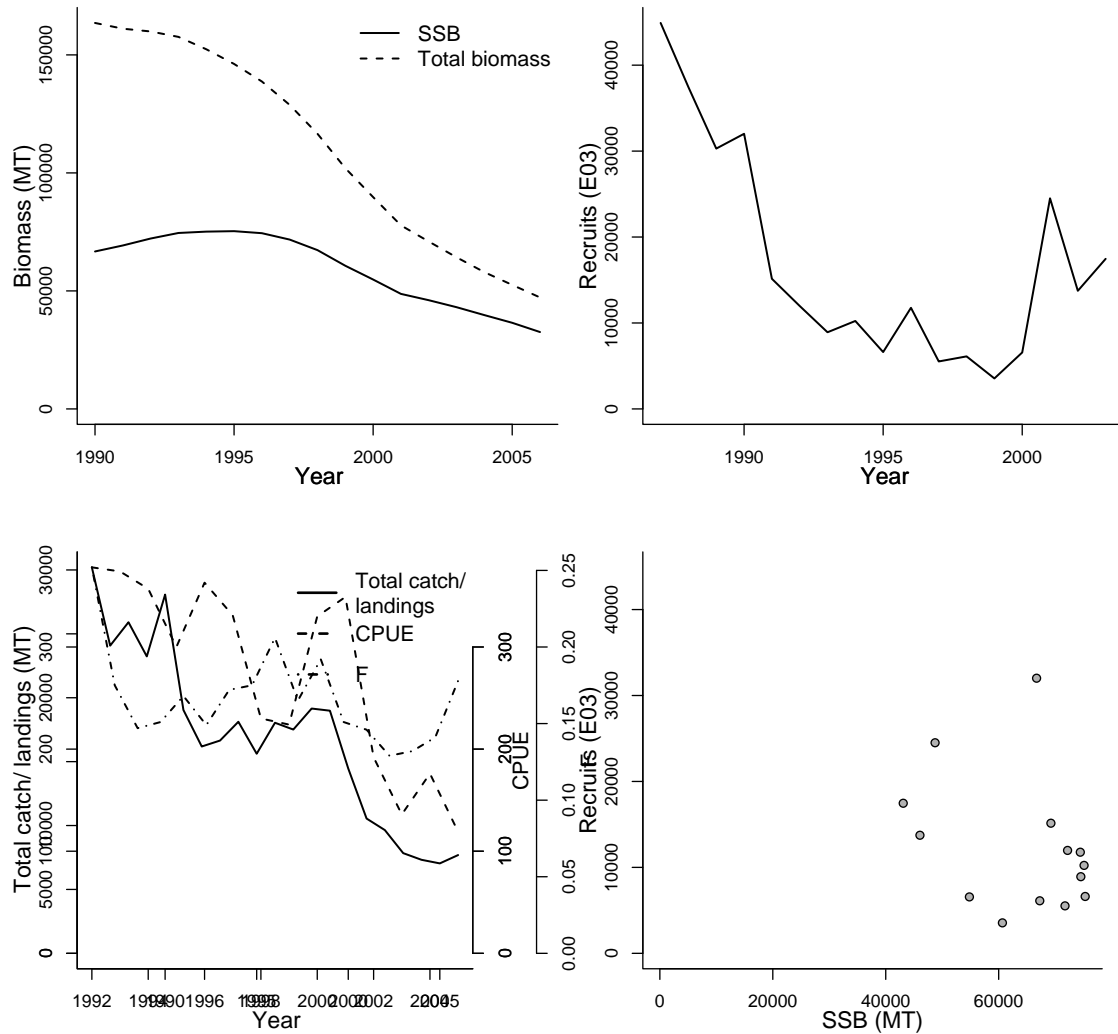
Parameter	Value	Units
A50-yr	12	yr
REC-AGE-yr	3	yr
SSB-AGE-yr	4+	yr
M-1/T	0.10	1/T
TB-AGE-yr	3+	yr
F-AGE-yr-yr	12-19	yr-yr
MORATOR-yr-yr	2004-2007	yr-yr
M		
L50-cm		

Reference points		
Parameter	Value	Units
MORATOR-yr-yr	2004-2007	yr-yr

**Time series minima and maxima**

	SSB	R	F	TB	Catch
Minimum year	1990	1987	1990	1990	1986
Maximum year	2006	2003	2006	2006	2006
Time series minimum	32572	3547	0.129	47231	7037
Time series maximum	75317	44912	0.252	163536	30203
Units	MT	E03	1/T	MT	MT



# Assessment of North-East Arctic haddock (*Melanogrammus aeglefinus*)

Assessment ID: AFWG-HADNEAR-1947-2006-MINTO

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

Area ID: multinational-ICES-I-II

General assessment details.

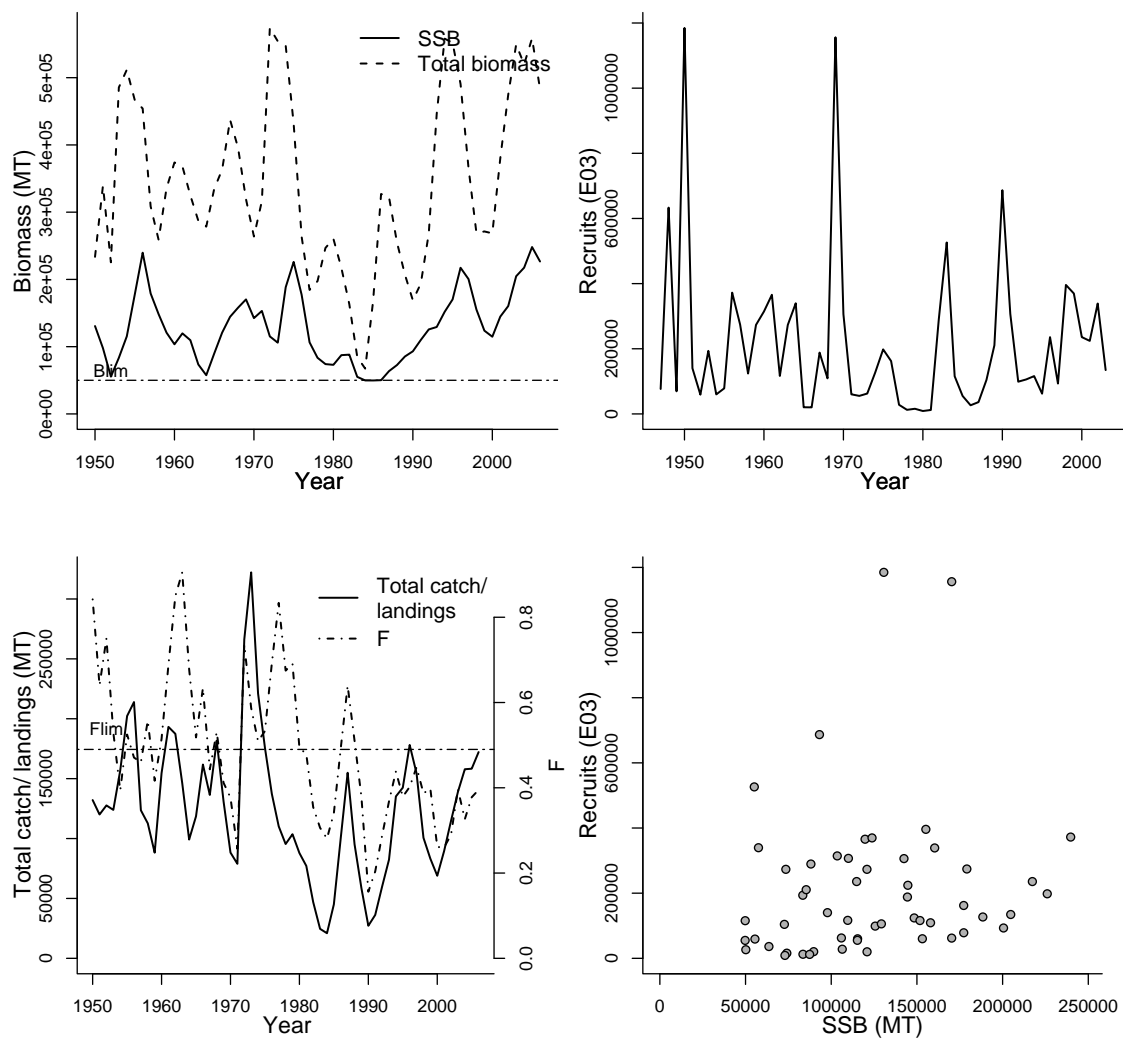
Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anon
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1947-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-03-31
Date last loaded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

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

			primary LME	secondary LME	tertiary LME
			20 - Barents Sea	21 - Norwegian Sea	na
Parameter	Value	Units	Reference points		
A50-yr	6	yr	Parameter	Value	Units
SSB-AGE-yr	3+	yr	Blim-MT (SSB)	50000	MT
REC-AGE-yr	3	yr	Bpa-MT (SSB)	80000	MT
F-AGE-yr-yr	4-7	yr-yr	Flim-1/T (F)	0.49	1/T
M-1/T	0.2+cod mortality	1/T	Fpa-1/T (F)	0.35	1/T
TB-AGE-yr	3+	yr	$SSB_{2006}/B_{lim}$	4.533	
M			$F_{2006}/F_{lim}$	0.806	
L50-cm					
MORATOR-yr-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	8961	0.1562	67367	20945
Time series maximum	248181	1184843	0.9053	573954	322226
Units	MT	E03	1/T	MT	MT



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

Assessment ID: AFWG-POLLNEAR-1957-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/367>

Area ID: multinational-ICES-I-II

General assessment details.

Detail	Value
Management body	ICES
Assessment group	Arctic Fisheries Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1957-2006
Document	ICES-AFWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-07
Date last loaded	2009-06-08
QA/QC complete	YES
Date approved	2009-06-08

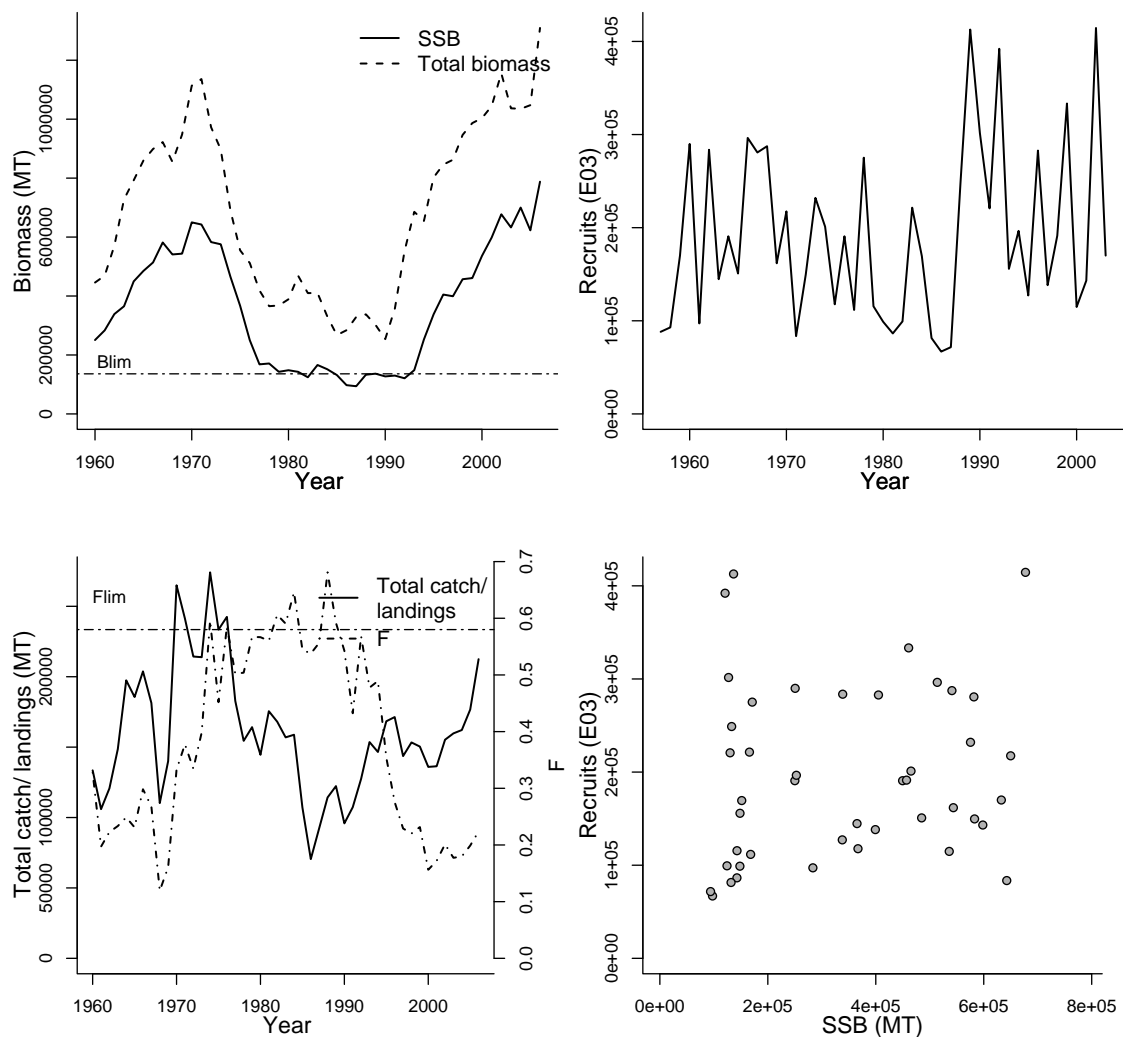
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME		tertiary LME	
20 - Barents Sea			21 - Norwegian Sea		na	
Parameter	Value	Units	Reference points			
			Parameter	Value	Units	
A50-yr	5	yr				
SSB-AGE-yr	4+	yr	Blim-MT (SSB)	136000	MT	
REC-AGE-yr	3	yr	Bpa-MT (SSB)	220000	MT	
F-AGE-yr-yr	4-7	yr-yr	F0.1-1/T	0.14	1/T	
M-1/T	0.2	1/T	Fmax-1/T	0.32	1/T	
TB-AGE-yr	3+	yr	Flim-1/T (F)	0.58	1/T	
M			Fpa-1/T (F)	0.35	1/T	
L50-cm			$SSB_{2006}/B_{lim}$	5.793		
MORATOR-yr-yr			$F_{2006}/F_{lim}$	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 deepwater redfish (*Sebastes mentella*)

Assessment ID: AFWG-REDDEEPI-II-1985-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/368>

Area ID: multinational-ICES-I-II

General assessment details.

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

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
A50-yr	13	yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		

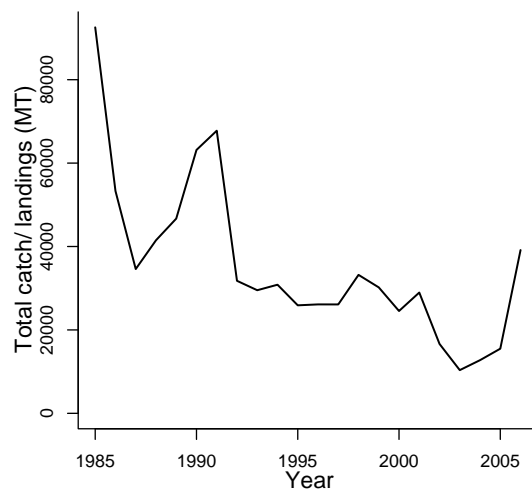
  

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year					1985
Maximum year					2006
Time series minimum					10361
Time series maximum					92552
Units					MT

No biomass data  
available

No recruitment  
data available



No SSB–recruit  
data available

# Assessment of 22-24-IIIa herring (*Clupea harengus*)

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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/369>

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

General assessment details.

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

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

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

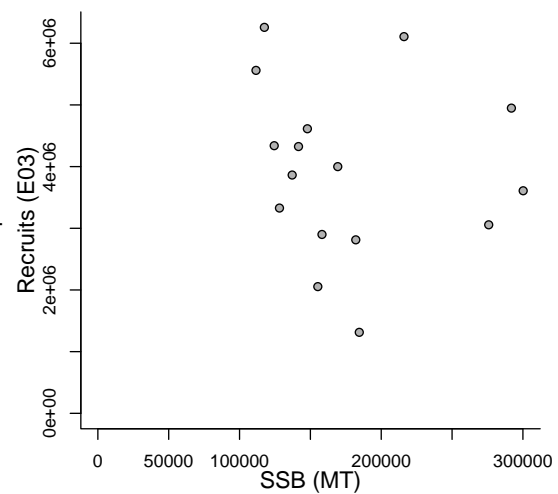
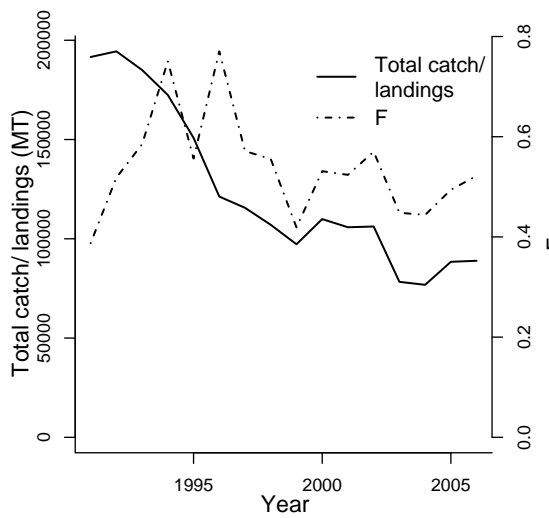
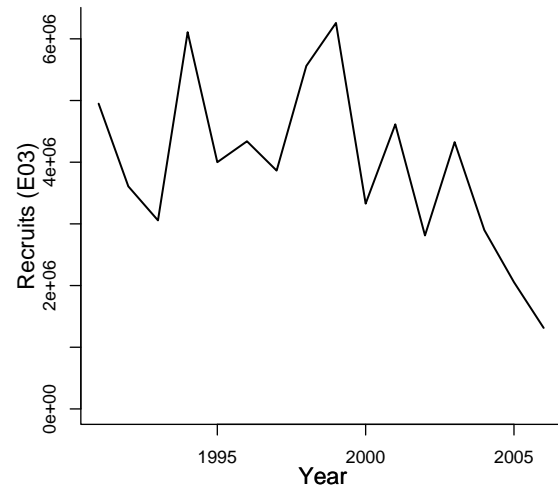
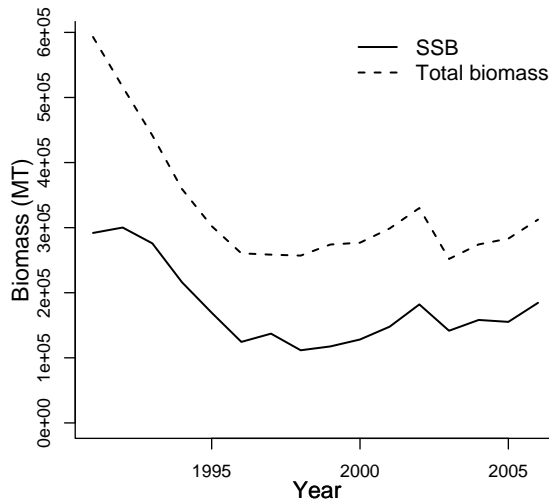
Parameter	Value	Units
A50-yr	2-3	yr
SSB-AGE-yr	2+	yr
REC-AGE-yr	0	yr
TB-AGE-yr	0+	yr
F-AGE-yr-yr	3-6	yr-yr
M-1/T	0.2 for 2+	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
F0.1-1/T	0.22	1/T
Fmax-1/T	0.53	1/T

**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 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	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
24 - Celtic-Biscay Shelf		na	na

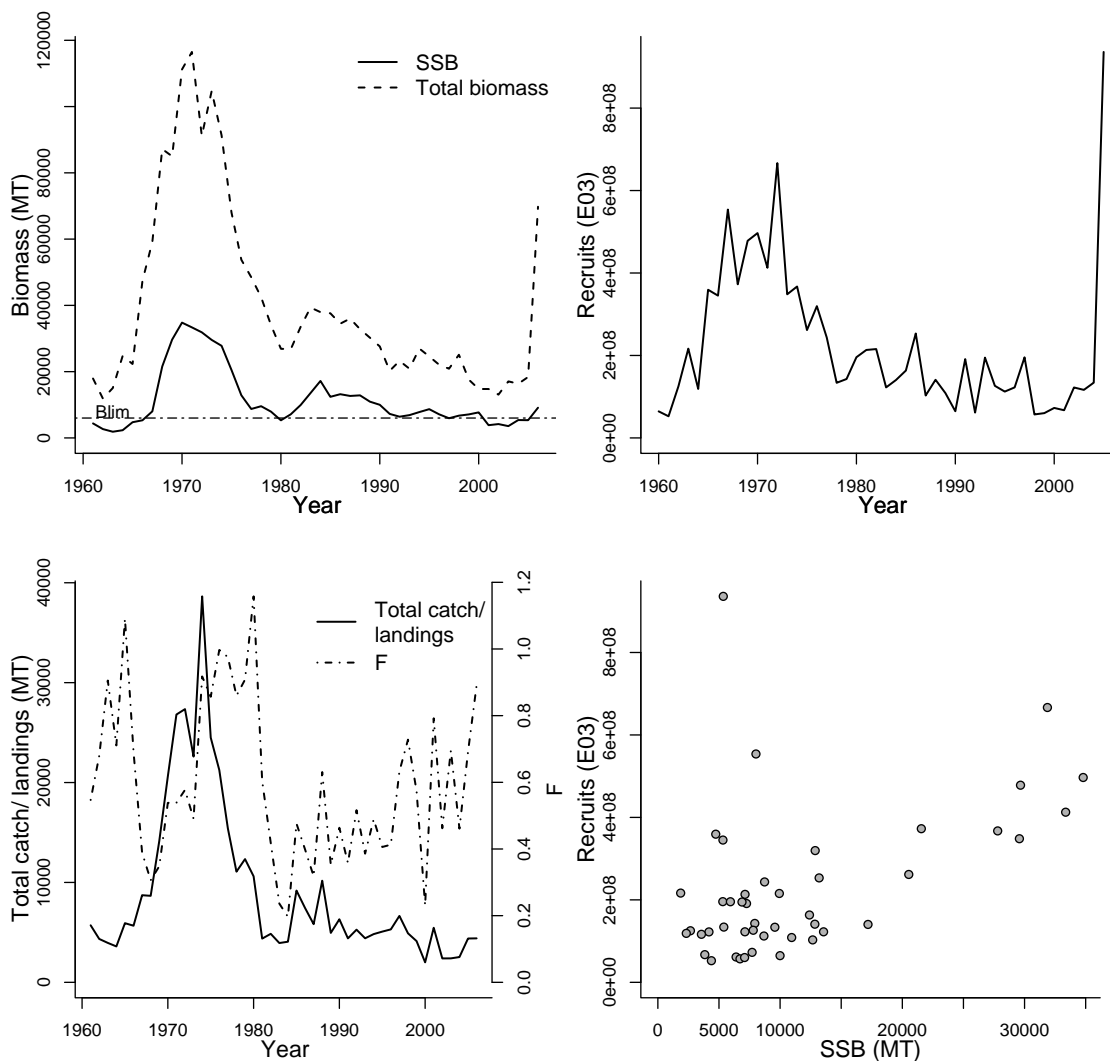
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	2 to 6	yr-yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	AVAILABLE	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Blim-MT (SSB)	6000	MT
Bpa-MT (SSB)	9500	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 North Sea herring (*Clupea harengus*)

Assessment ID:HAWG-HERRNS-1960-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/370>

Area ID: multinational-ICES-IV

General assessment details.

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

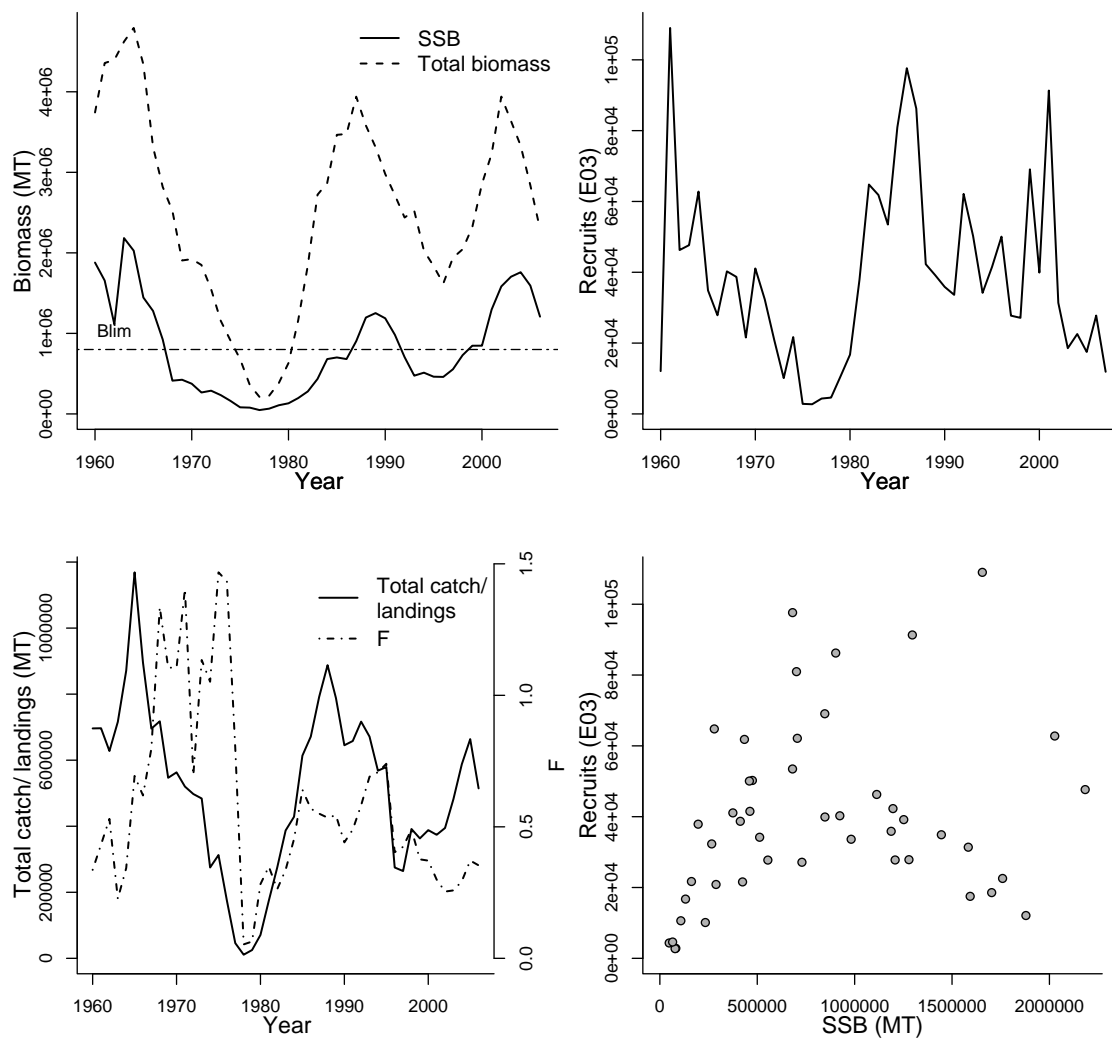
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

		primary LME	secondary LME	tertiary LME		
		22 - North Sea	na	na		
Parameter	Value	Units				
A50-yr	2	yr	Reference points			
SSB-AGE-yr	2+	yr	Parameter	Value	Units	
REC-AGE-yr	0	yr	F0.1-1/T	0.22	1/T	
TB-AGE-yr	0+	yr	Fpa-1/T (F)	0.25	1/T	
F-AGE-yr-yr	2-6	yr-yr	Bpa-MT (SSB)	1300000	MT	
M-1/T	0.1 for 4+	1/T	Blim-MT (SSB)	800000	MT	
M			SSB <sub>2006</sub> /B <sub>lim</sub>	1.510		
L50-cm						
MORATOR-yr-yr						



**Time series minima and maxima**

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



# Assessment of West of Scotland herring (*Clupea harengus*)

Assessment ID:HAWG-HERRVla-1957-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/371>

Area ID: multinational-ICES-VIa

General assessment details.

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

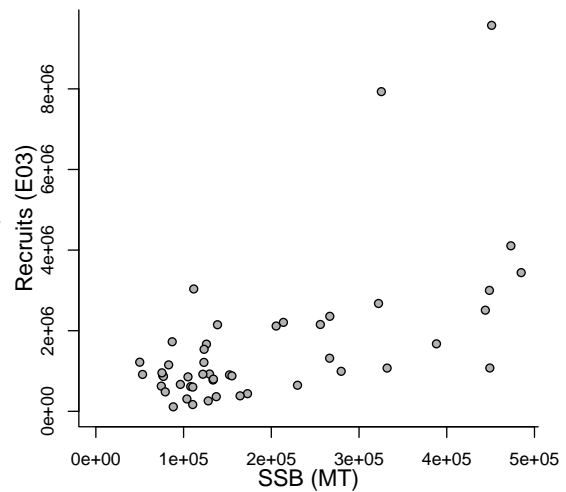
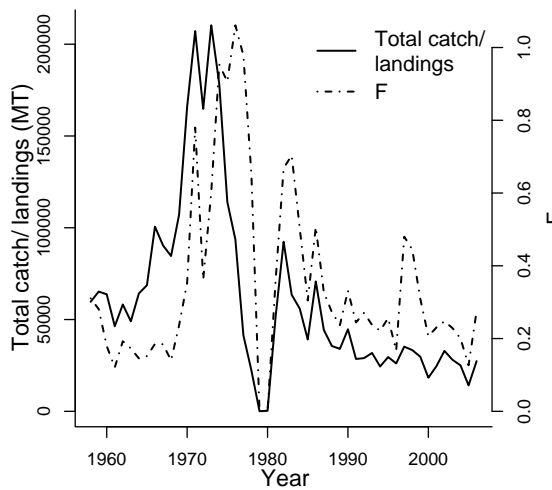
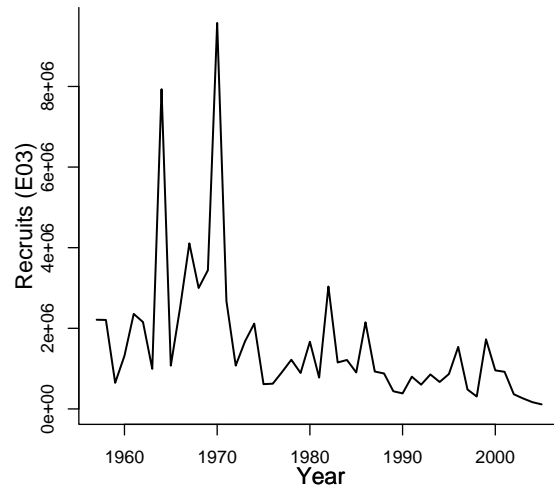
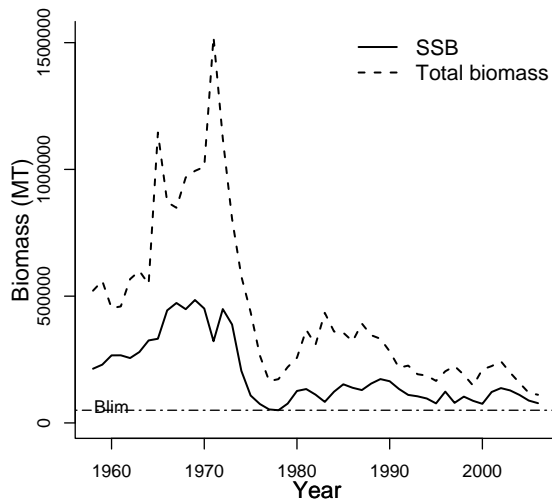
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME	tertiary LME		
24 - Celtic-Biscay Shelf			na	na		
Parameter	Value	Units				
A50-yr	1-2	yr				
SSB-AGE-yr	2+	yr				
REC-AGE-yr	1	yr				
TB-AGE-yr	1+	yr				
F-AGE-yr-yr	3-6	yr-yr				
M-1/T	0.1 for 4+	1/T				
M						
L50-cm						
MORATOR-yr-yr						

Reference points		
Parameter	Value	Units
F0.1-1/T	0.17	1/T
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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/372>

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

General assessment details.

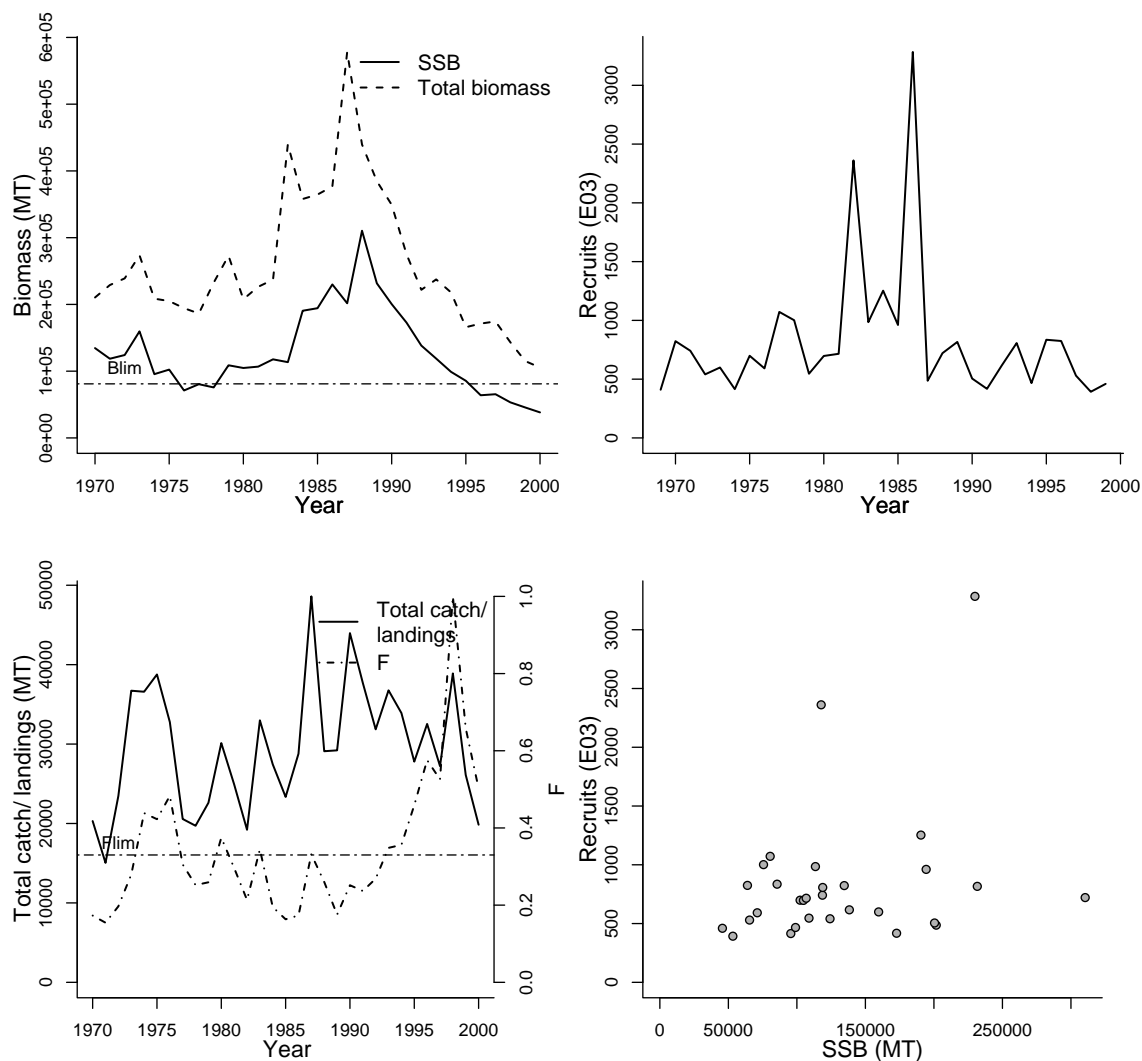
Detail	Value
Management body	ICES
Assessment group	Herring Assessment Working Group for the Area South of 62N
Assessment authors	Anon
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1969-2000
Document	ICES-HAWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered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

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

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

**Time series minima and maxima**

	SSB	R	F	TB	Catch
Minimum year	1970	1969	1970	1970	1970
Maximum year	2000	1999	2000	2000	2000
Time series minimum	38246	392.621	0.1545	105417	15044
Time series maximum	310384	3284.004	1.0001	578250	48600
Units	MT	E03	1/yr	MT	MT



# Assessment of North Sea sprat (*Sprattus sprattus*)

Assessment ID:HAWG-SPRATNS-1995-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/373>

Area ID: multinational-ICES-IV

General assessment details.

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

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

	primary LME	secondary LME	tertiary LME
	22 - North Sea	na	na

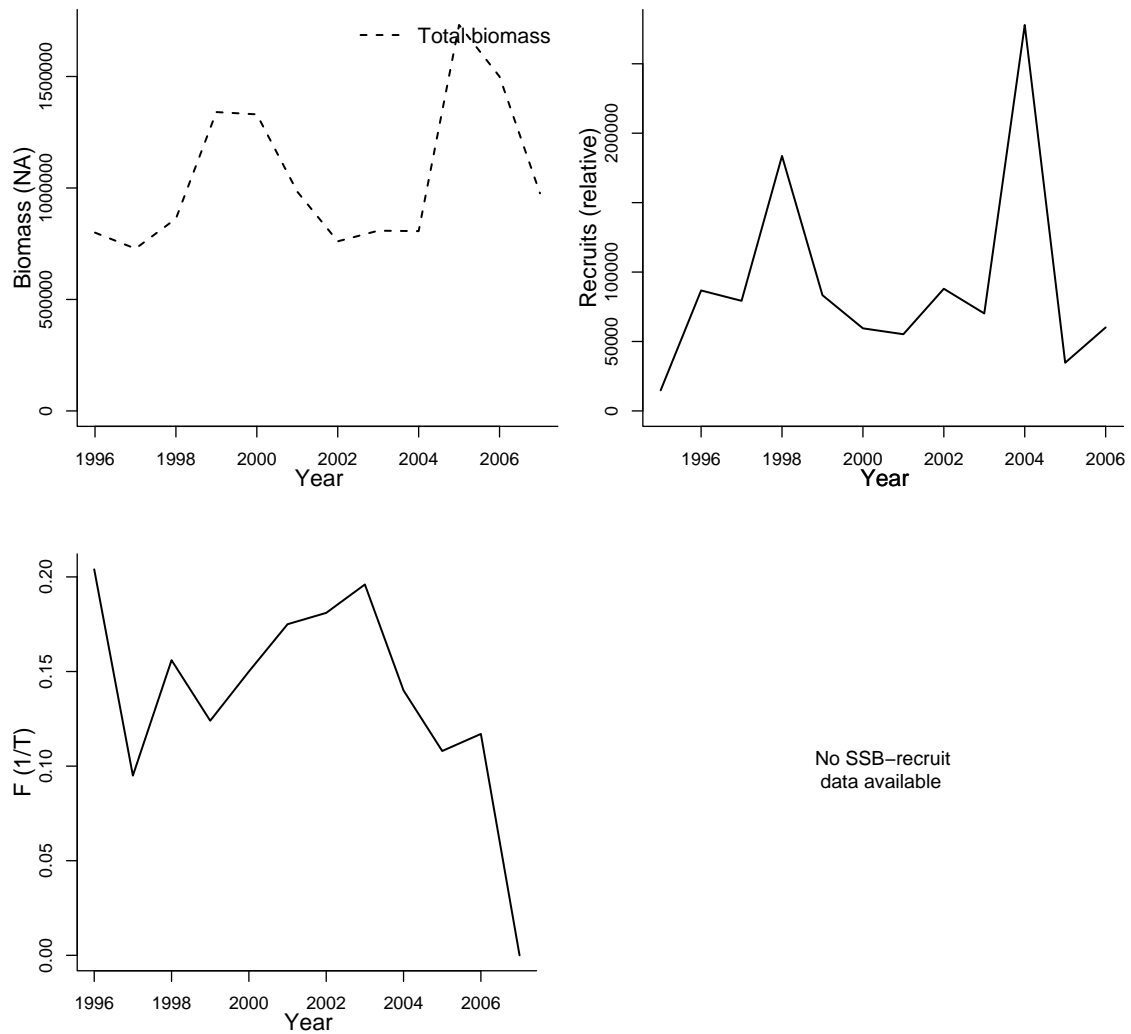
  

Parameter	Value	Units
SSB-AGE-yr	1+	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
M-1/T	0.75	1/T
A50-yr	0-1	yr
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year		1995	1996	1996	
Maximum year		2006	2007	2007	
Time series minimum		14821.9	0	727854	
Time series maximum		277968.1	0.204	1731263	
Units		relative	1/T	relative	



# Assessment of Iceland Grounds capelin (*Mallotus villosus*)

Assessment ID:NWWG-CAPEICE-1977-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/374>

Area ID: multinational-ICES-Va

General assessment details.

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

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

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

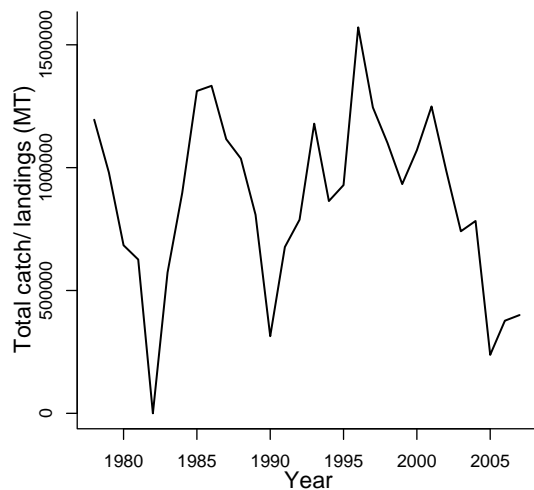
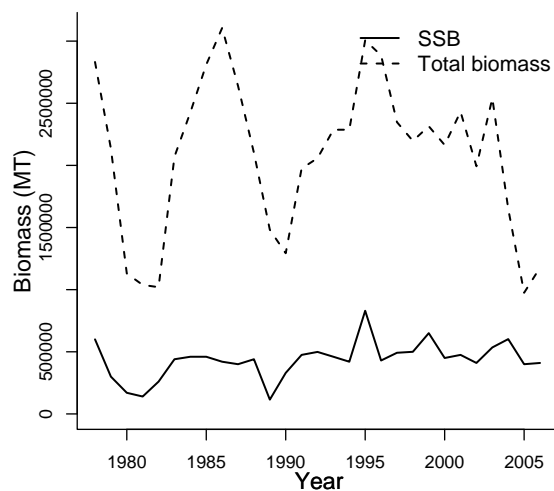
Parameter	Value	Units	
A50-yr	2	yr	
SSB-AGE-yr	2+	yr	
REC-AGE-yr	1	yr	
TB-AGE-yr	1+	yr	
F-AGE-yr			
M			
L50-cm			
MORATOR-yr-yr			

Reference points		
Parameter	Value	Units



Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1977		1978	1978
Maximum year	2006	2005		2006	2007
Time series minimum	115000	49000000		975000	0
Time series maximum	830000	251000000		3106000	1571000
Units	MT	E03		MT	MT



# Assessment of Faroe Plateau atlantic cod (*Gadus morhua*)

Assessment ID:NWWG-CODFAPL-1959-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/375>

Area ID: multinational-ICES-Vb1

General assessment details.

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

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

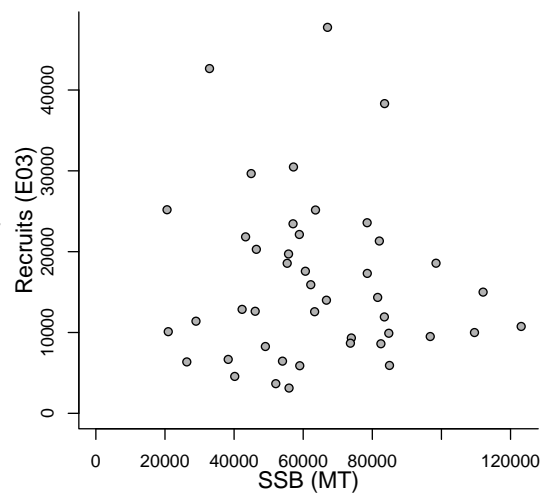
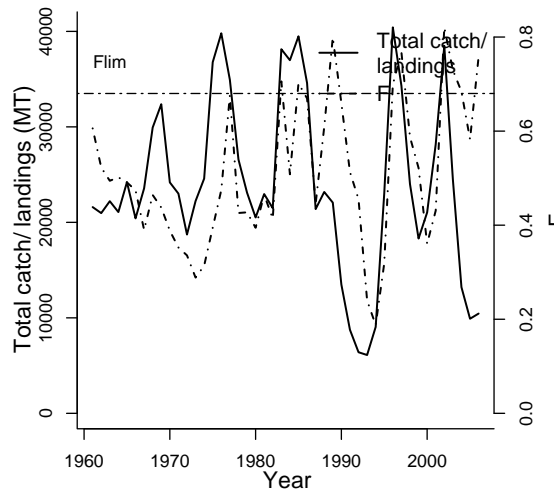
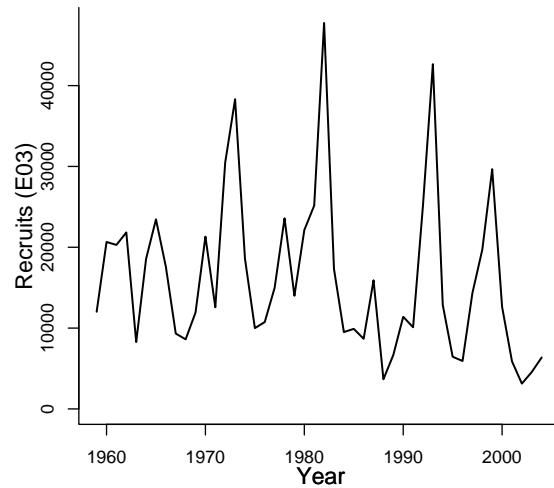
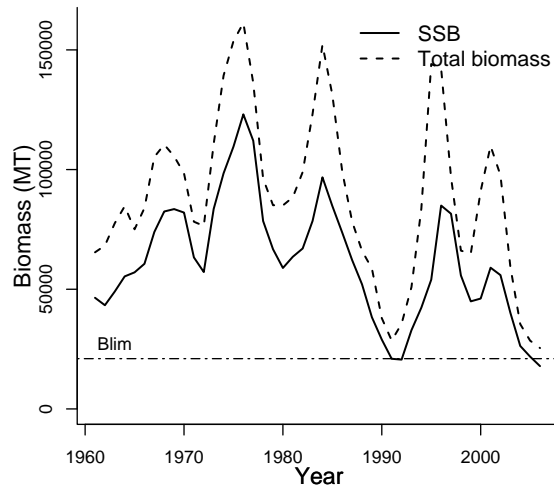
primary LME			secondary LME			tertiary LME		
60 - Faroe Plateau			na			na		

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
A50-yr	3	yr	Blim-MT (SSB)	21000	MT
SSB-AGE-yr	2+	yr	Bpa-MT (SSB)	40000	MT
REC-AGE-yr	2	yr	F0.1-1/yr (F)	0.12	1/yr
F-AGE-yr-yr	3-7	yr-yr	Fmax-1/T	0.25	1/T
TB-AGE-yr	1+	yr	Flim-1/T (F)	0.68	1/T
M			Fpa-1/T (F)	0.35	1/T
L50-cm			$SSB_{2006}/B_{lim}$	0.851	
MORATOR-yr-yr			$F_{2006}/F_{lim}$	1.115	

Time series minima and maxima

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



# Assessment of Iceland Grounds atlantic cod (*Gadus morhua*)

Assessment ID:NWWG-CODICE-1952-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/376>

Area ID: multinational-ICES-Va

General assessment details.

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

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

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

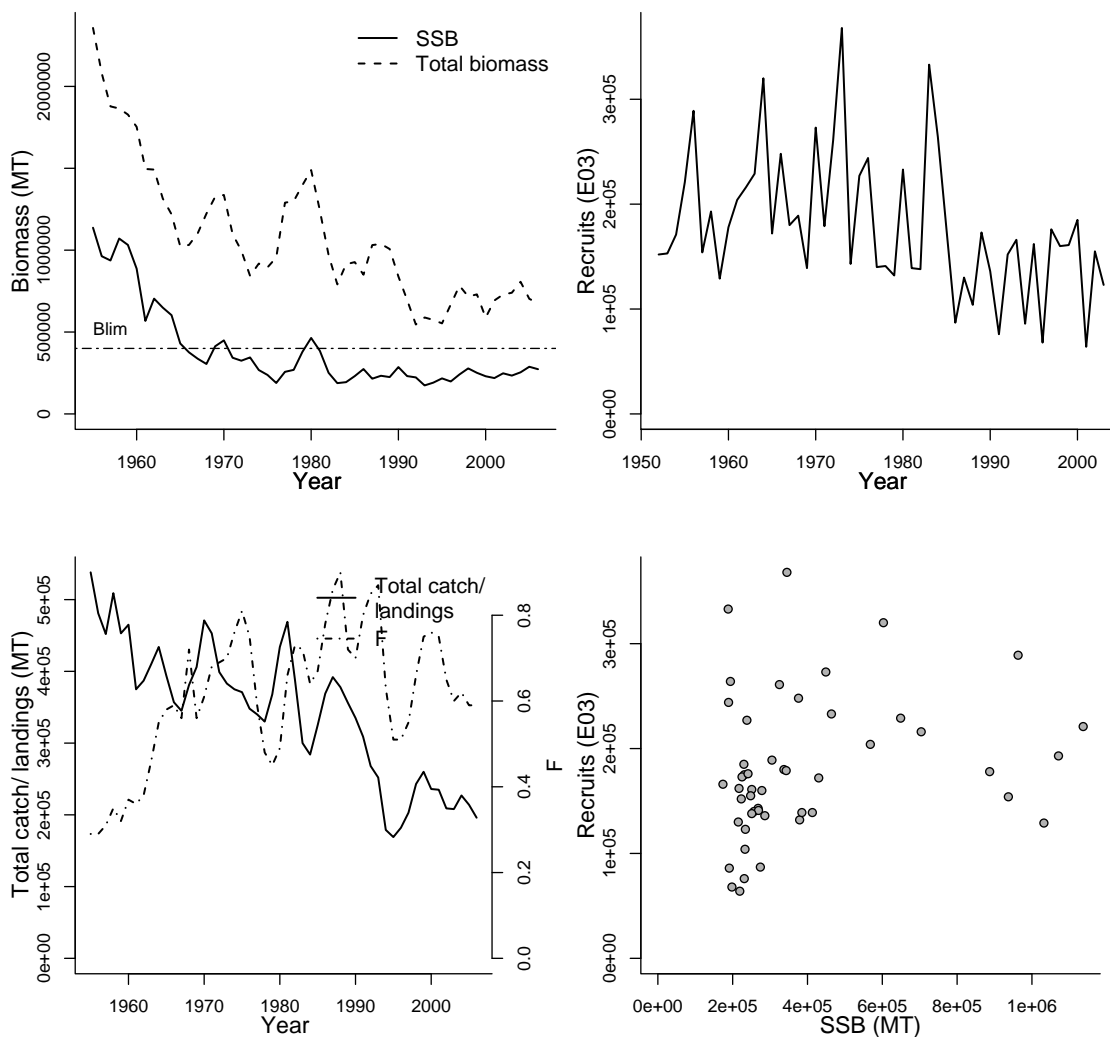
Parameter	Value	Units
A50-yr	6.5	yr
SSB-AGE-yr	3+	yr
REC-AGE-yr	3	yr
TB-AGE-yr	4+	yr
M-1/T	0.25	1/T
F-AGE-yr-yr	5-10	yr-yr
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Blim-MT (SSB)	400000	MT
F0.1-1/T	0.15	1/T
Fmax-1/T	0.34	1/T
$SSB_{2006}/B_{lim}$	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-1955-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/377>

Area ID: multinational-ICES-Vb1

General assessment details.

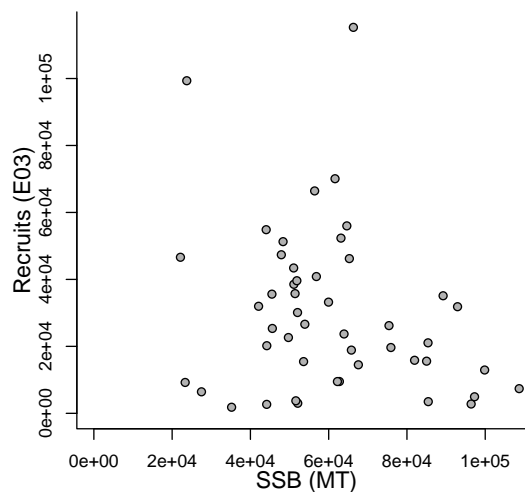
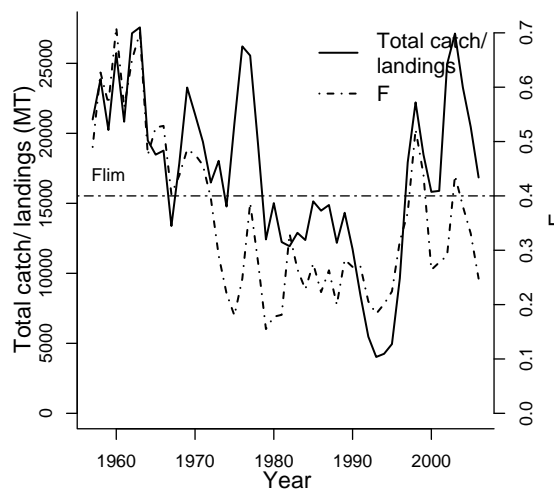
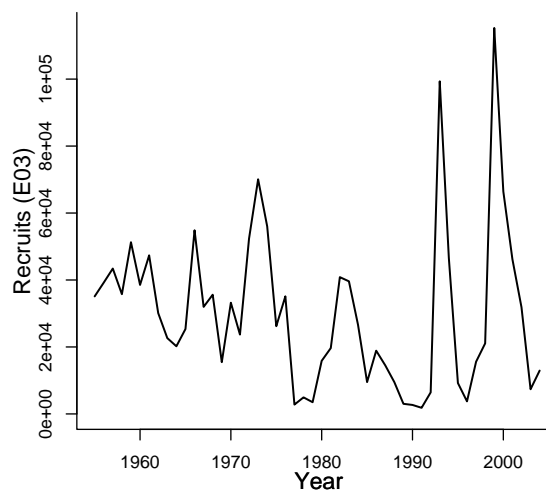
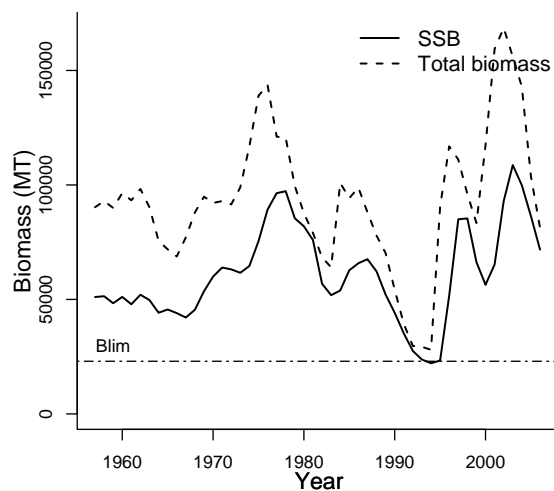
Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1955-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-08
Date last loaded	2009-06-08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

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

primary LME			secondary LME		tertiary LME	
60 - Faroe Plateau			na		na	
Parameter	Value	Units	Reference points			
			Parameter	Value	Units	
A50-yr	3	yr				
SSB-AGE-yr	2+	yr	Blim-MT (SSB)	23000	MT	
REC-AGE-yr	2	yr	Bpa-MT (SSB)	35000	MT	
F-AGE-yr-yr	3-7	yr-yr	F0.1-1/T	0.15	1/T	
TB-AGE-yr	0+	yr	Fmax-1/T	0.61	1/T	
M-1/T	0.2	1/T	Flim-1/T (F)	0.4	1/T	
M			Fpa-1/T (F)	0.25	1/T	
L50-cm			$SSB_{2006}/B_{lim}$	3.121		
MORATOR-yr-yr			$F_{2006}/F_{lim}$	0.619		

**Time series minima and maxima**

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



# Assessment of Iceland Grounds haddock (*Melanogrammus aeglefinus*)

Assessment ID:NWWG-HADICE-1977-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/378>

Area ID: multinational-ICES-Va

General assessment details.

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

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
A50-yr	4	yr
SSB-AGE-yr	1+	yr
REC-AGE-yr	2	yr
TB-AGE-yr	3+	yr
M-1/T	0.2	1/T
F-AGE-yr-yr	4-7	yr-yr
M		
L50-cm		
MORATOR-yr-yr		

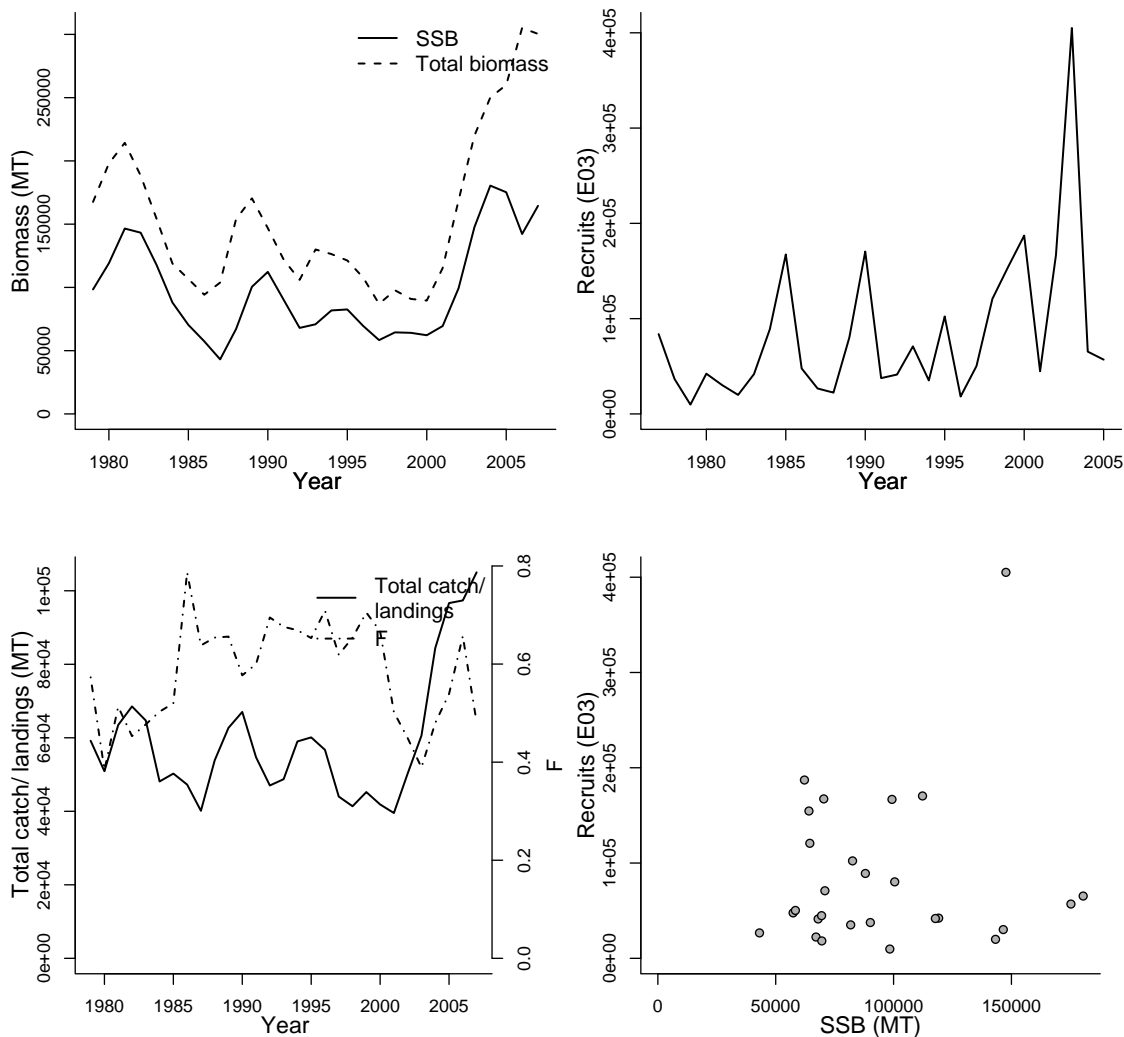
  

Reference points		
Parameter	Value	Units
F0.1-1/T	0.16	1/T
Fmax-1/T	0.44	1/T
Fpa-1/T (F)	0.47	1/T



**Time series minima and maxima**

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



# Assessment of Faroe Plateau pollock (*Pollachius virens*)

Assessment ID: NWWG-POLLFAPL-1958-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/379>

Area ID: multinational-ICES-Vb1

General assessment details.

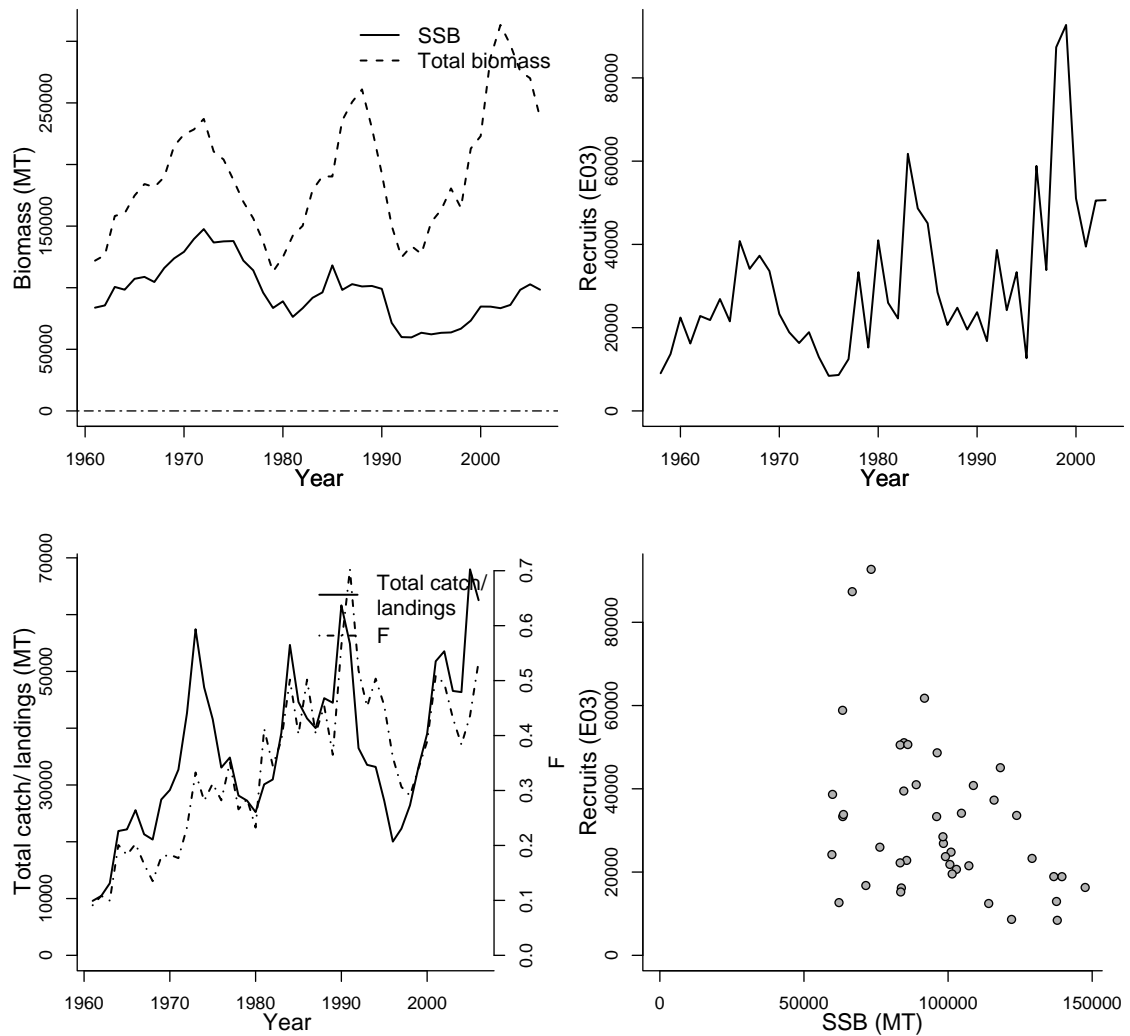
Detail	Value
Management body	ICES
Assessment group	North-Western Working Group
Assessment authors	Anon
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1958-2006
Document	ICES-NWWG-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-09
Date last loaded	2009-06-08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

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

			primary LME	secondary LME	tertiary LME
60 - Faroe Plateau			na	na	na
Parameter	Value	Units	Reference points		
A50-yr	5	yr	Parameter	Value	Units
SSB-AGE-yr	3+	yr	Blim-MT (SSB)	45000-50000	MT
REC-AGE-yr	3	yr	Bpa-MT (SSB)	60000	MT
F-AGE-yr-yr	4-8	yr-yr	F0.1-1/T	0.14	1/T
TB-AGE-yr	3+	yr	Fmax-1/T	0.45	1/T
M-1/T	0.2	1/T	Fpa-1/T (F)	0.5	1/T
M			$SSB_{2006}/B_{lim}$	2.187	
L50-cm					
MORATOR-yr-yr					

**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 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	2009-06-01
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

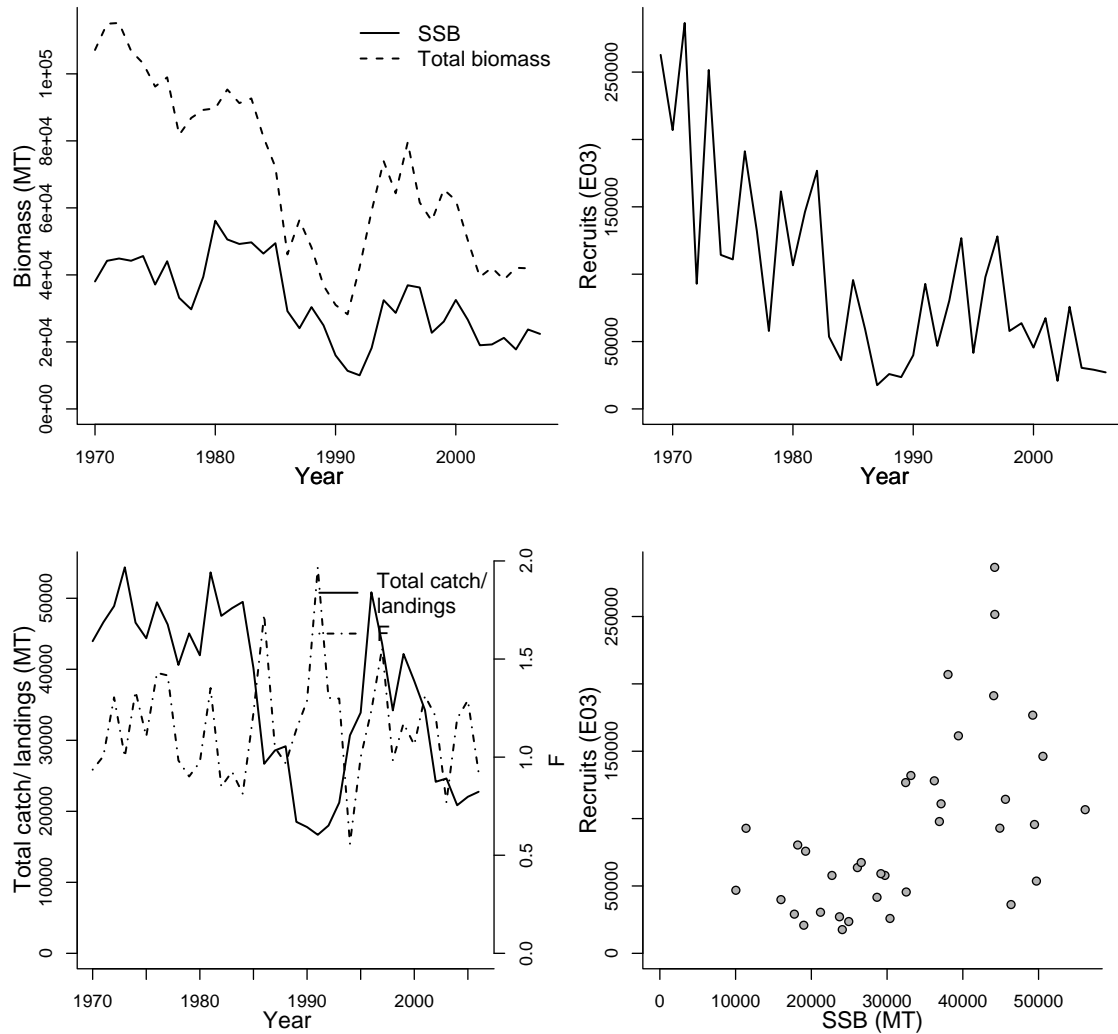
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	3 to 6	yr-yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	AVAILABLE	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Bpa-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.

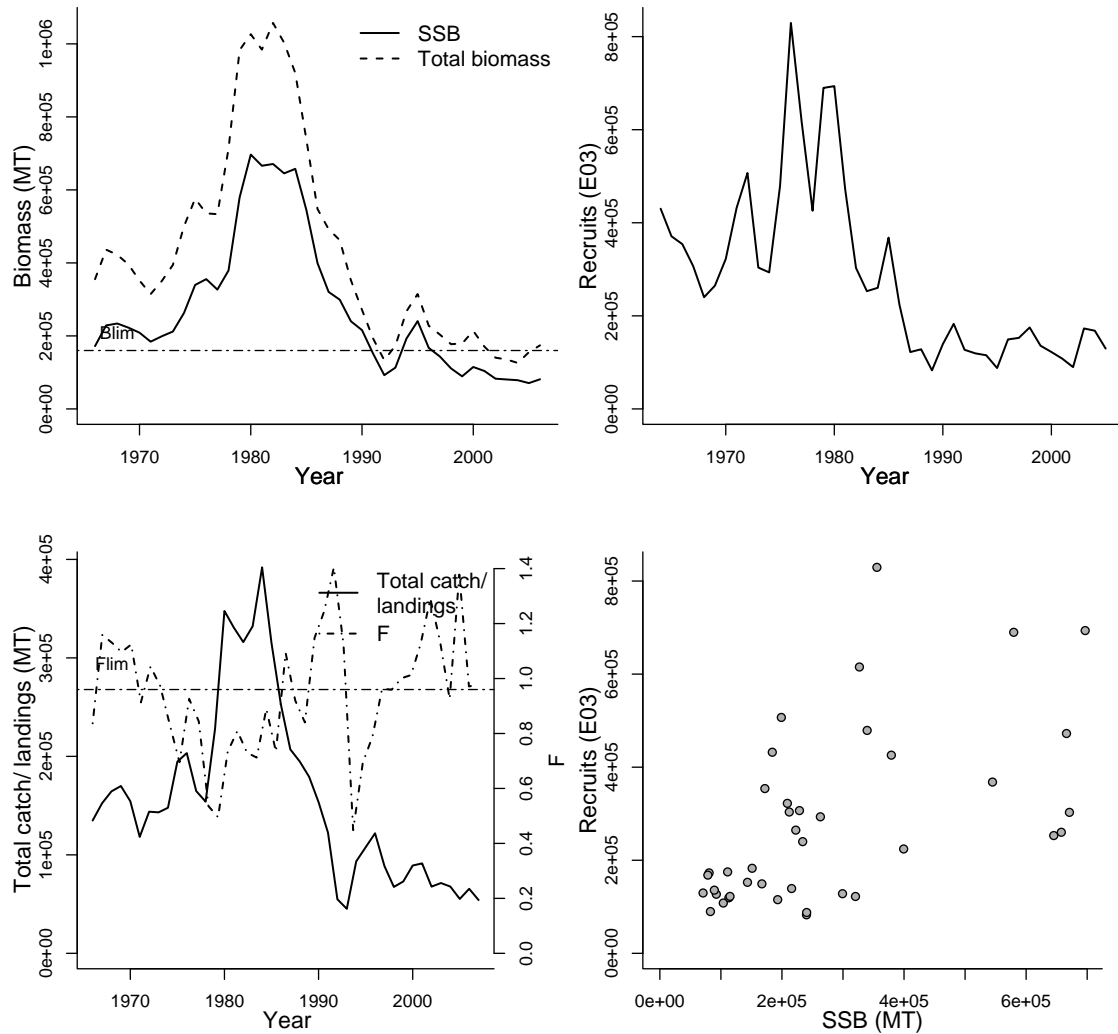
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1964-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	2009-06-01
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			Reference points		
REC-AGE-yr			2			yr			Parameter		
F-AGE-yr-yr			4 to 7			yr-yr			Flim-1/T (F)		
TB-AGE-yr			2+			yr			Fpa-1/T (F)		
A50-yr			AVAILABLE			yr			Blim-MT (SSB)		
M-1/T			0.2			1/T			Bpa-MT (SSB)		
M									$SSB_{2006}/B_{lim}$		
L50-cm									$F_{2006}/F_{lim}$		
MORATOR-yr-yr											

**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 Kattegat and Skagerrak atlantic cod (*Gadus morhua*)

Assessment ID:WGBFAS-CODKAT-1970-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/380>

Area ID: multinational-ICES-IIIa

General assessment details.

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

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

	primary LME	secondary LME	tertiary LME
	22 - North Sea	na	na

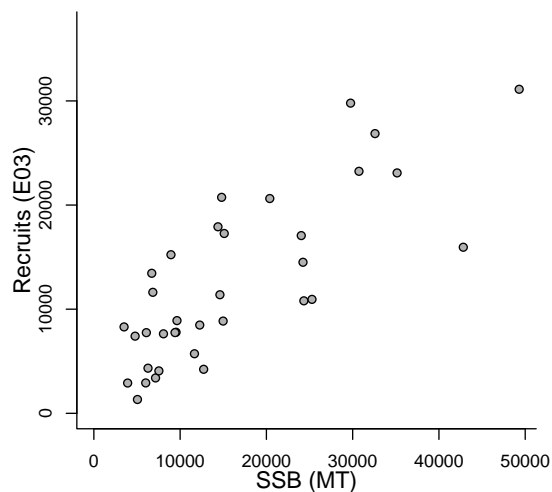
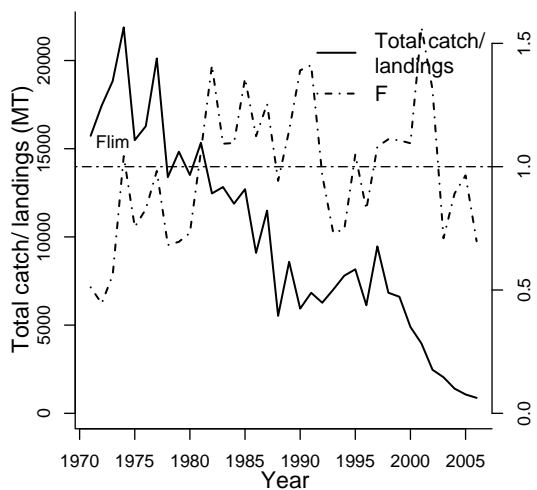
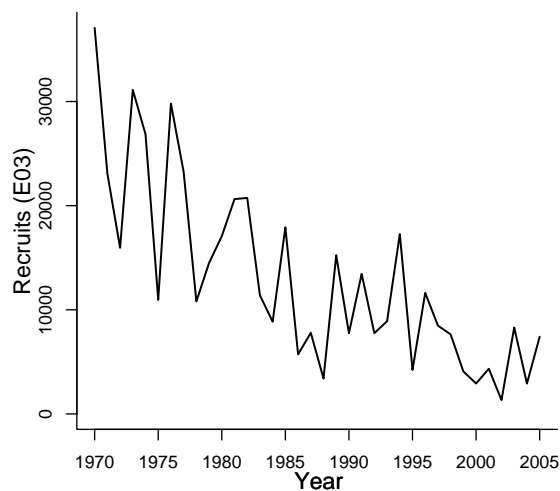
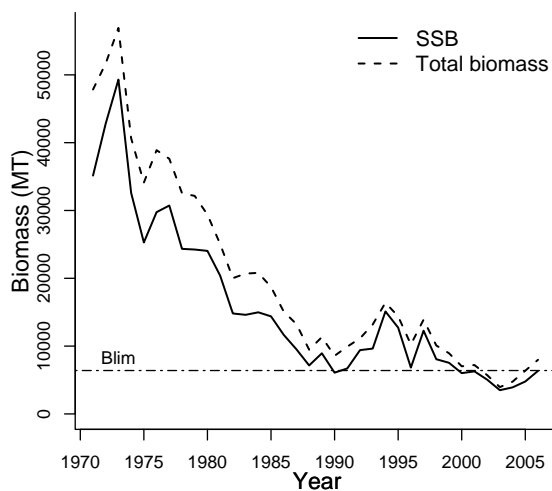
  

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
A50-yr	2	yr	Flim-1/T (F)	1	1/T
SSB-AGE-yr	1+	yr	Fpa-1/T (F)	0.6	1/T
REC-AGE-yr	1	yr	Bpa-MT (SSB)	10500	MT
TB-AGE-yr	1+	yr	Blim-MT (SSB)	6400	MT
F-AGE-yr-yr	3-5	yr-yr	$SSB_{2006}/B_{lim}$	0.992	
M-1/T	0.2	1/T	$F_{2006}/F_{lim}$	0.698	
M					
L50-cm					
MORATOR-yr-yr					



Time series minima and maxima

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



# Assessment of 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

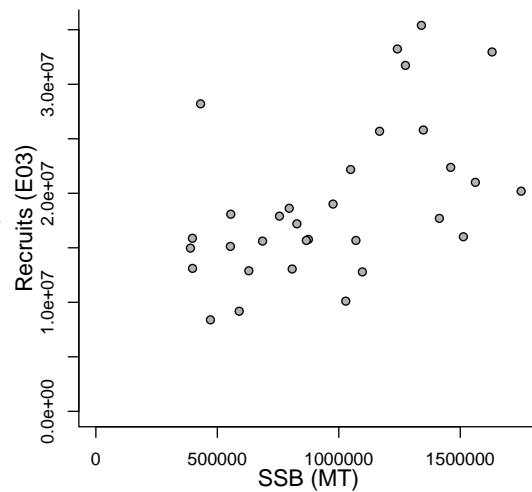
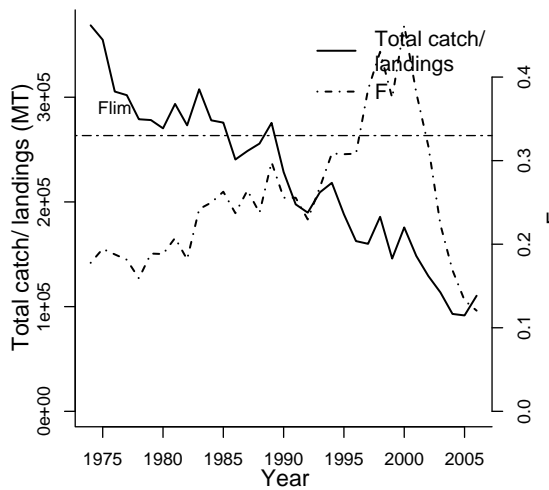
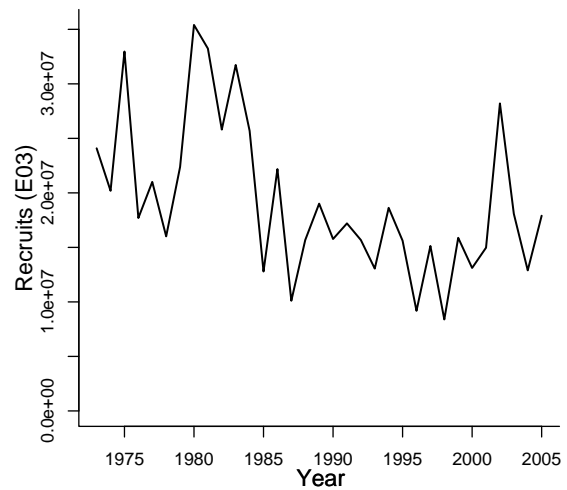
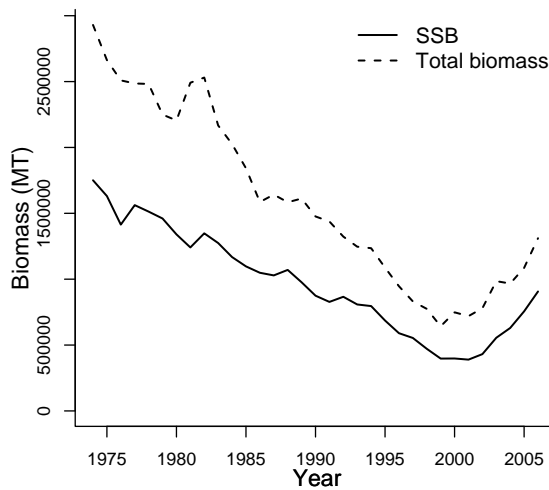
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

			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			
M					
L50-cm					
MORATOR-yr-yr					

Reference points		
Parameter	Value	Units
Flim-1/T (F)	0.33	1/T
Fpa-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.

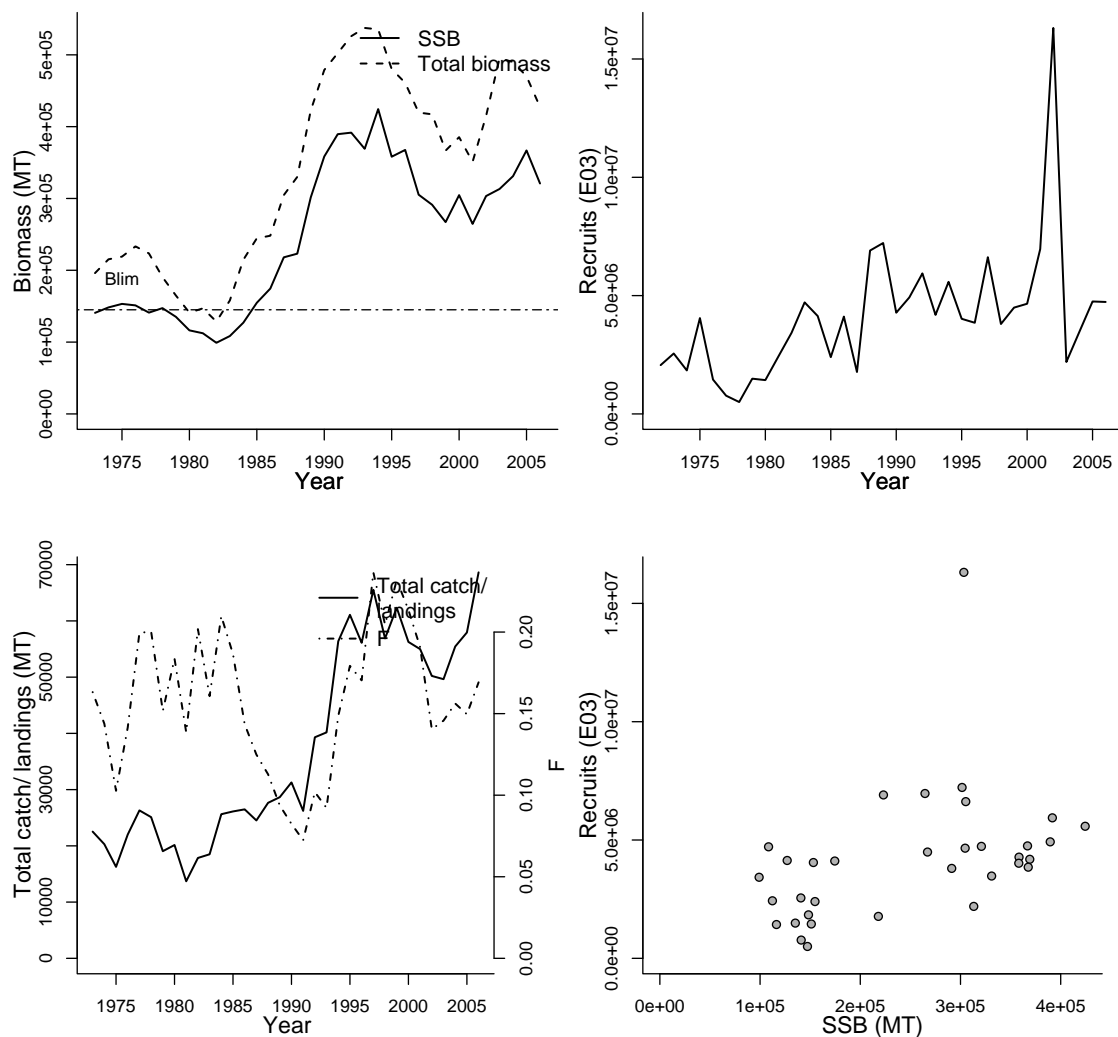
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1972-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-18
Date last loaded	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	Reference points		
SSB-AGE-yr	AVAILABLE	yr	Parameter	Value	Units
REC-AGE-yr	1	yr	Flim-1/T (F)	0.3	1/T
F-AGE-yr-yr	3 to 7	yr-yr	Fpa-1/T (F)	0.21	1/T
TB-AGE-yr	1+	yr	Blim-MT (SSB)	145000	MT
A50-yr	AVAILABLE	yr	Bpa-MT (SSB)	200000	MT
M-1/T	0.2	1/T	$SSB_{2006}/B_{lim}$	2.213	
M			$F_{2006}/F_{lim}$	0.564	
L50-cm					
MORATOR-yr-yr					

**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

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

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	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

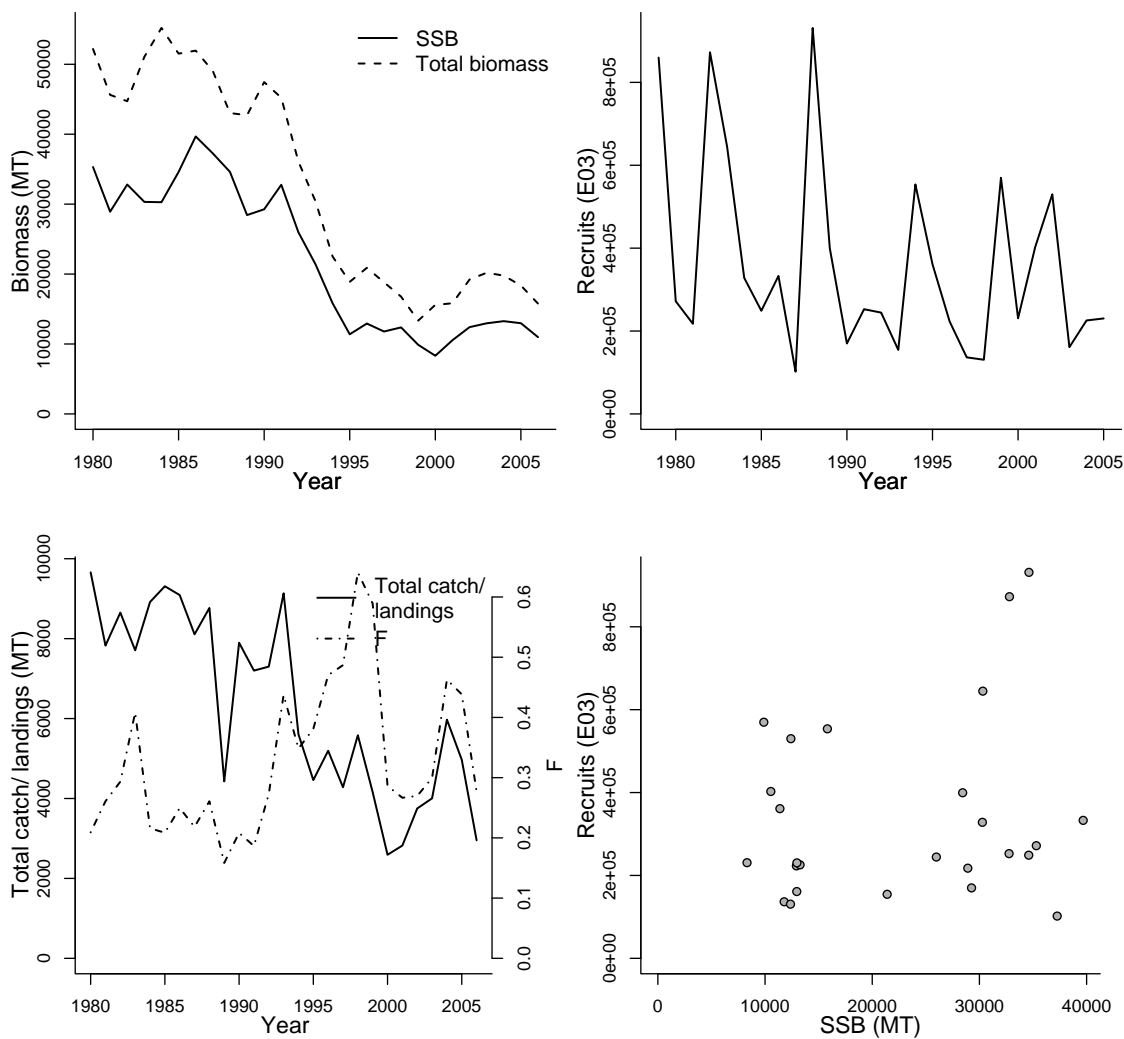
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	3 to 7	yr-yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.15	1/T
M		
L50-cm		
MORATOR-yr-yr		

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-HERRIsum-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	
M			
L50-cm			
MORATOR-yr-yr			

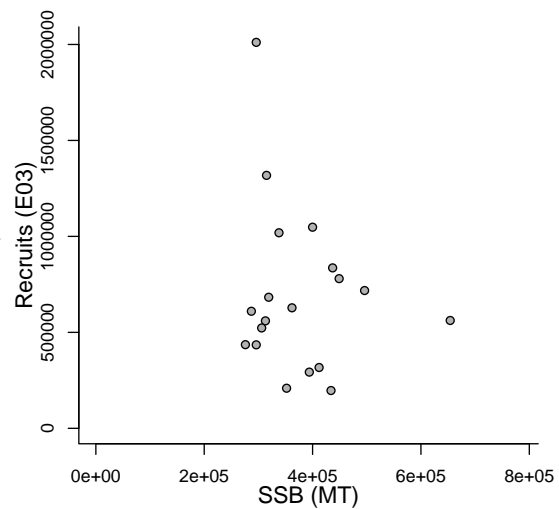
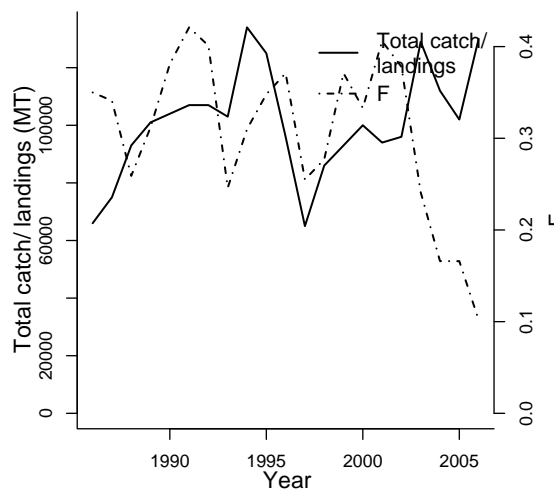
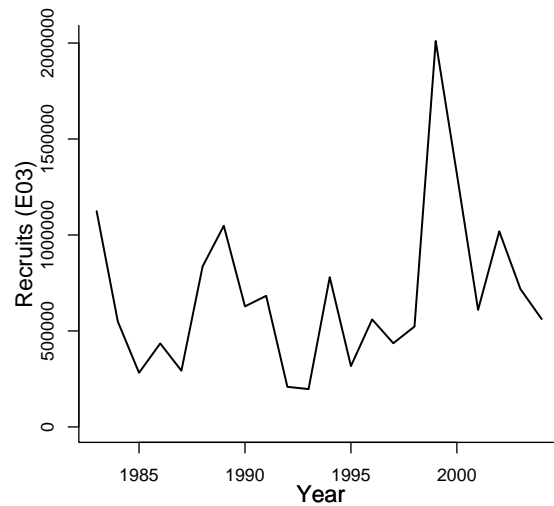
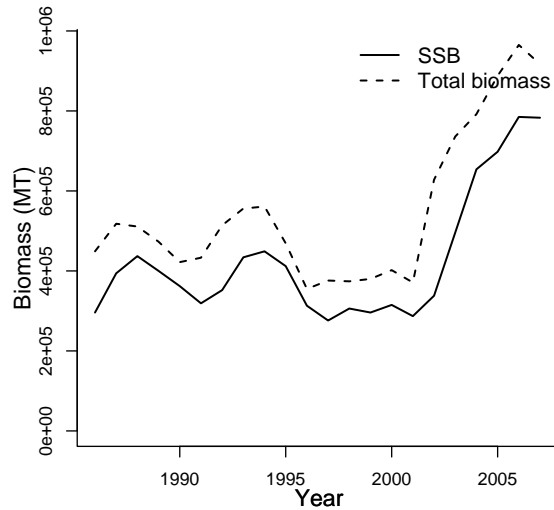
  

Reference points		
Parameter	Value	Units



**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-HERRRIGA-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	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

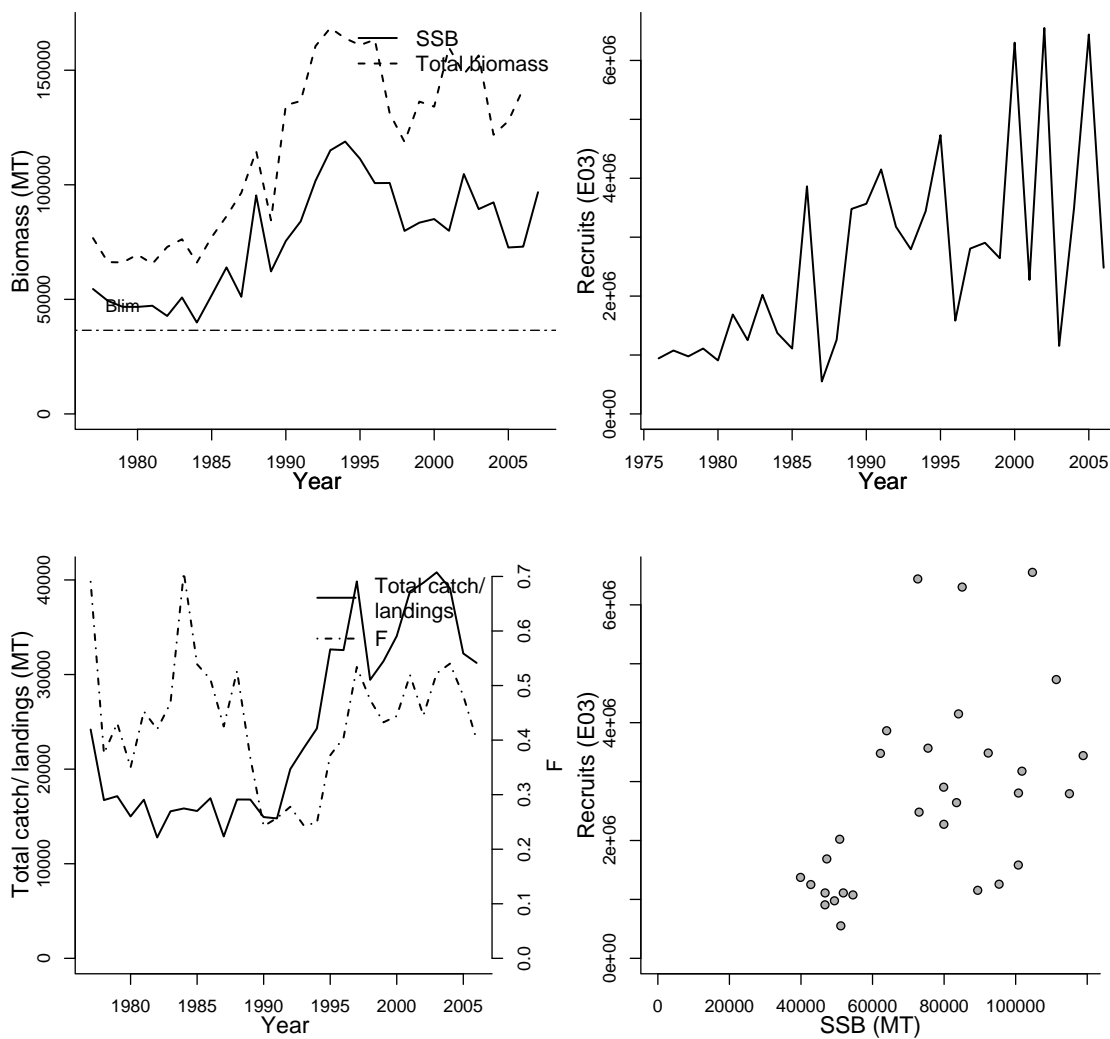
Parameter	Value	Units
SSB-AGE-yr	1.5	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	3 to 7	yr-yr
TB-AGE-yr	1+	yr
A50-yr	1.5	yr
M-1/T	AVAILABLE	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Fpa-1/T (F)	0.4	1/T
Blim-MT (SSB)	36500	MT
Bpa-MT (SSB)	50000	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

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

Area ID: multinational-ICES-IIIa

General assessment details.

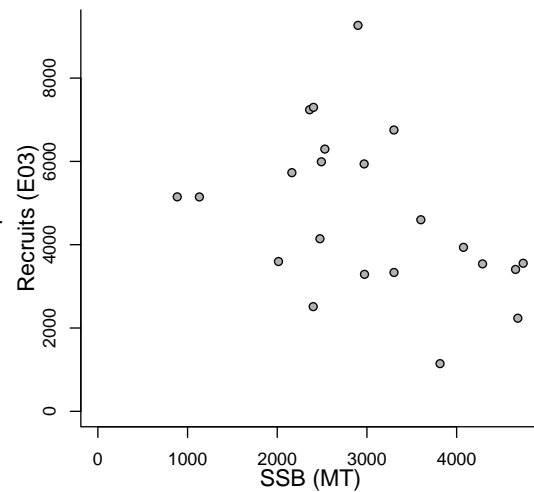
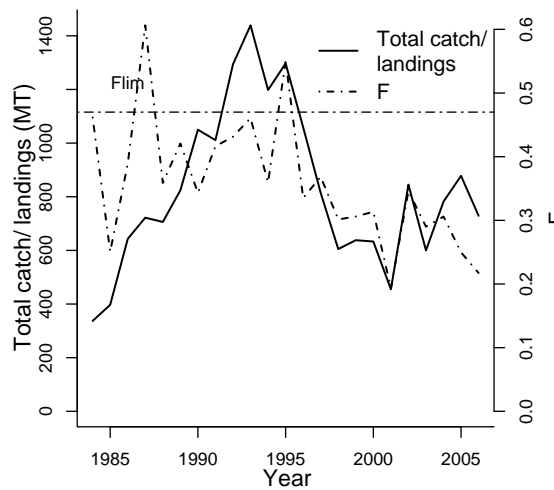
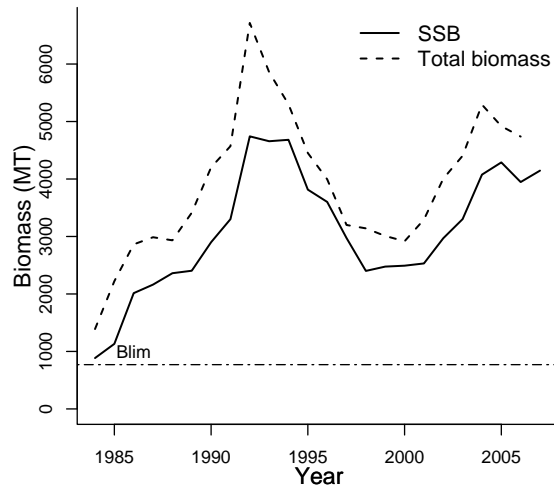
Detail	Value
Management body	ICES
Assessment group	Baltic Fisheries Assessment Working Group
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2007
Document	ICES-WGBFAS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-27
Date last loaded	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		
22 - North Sea			na			na		
Parameter	Value	Units	Reference points					
SSB-AGE-yr	3	yr	Parameter	Value	Units			
REC-AGE-yr	2	yr	Flim-1/T (F)	0.47	1/T			
F-AGE-yr-yr	4 to 8	yr-yr	Fpa-1/T (F)	0.3	1/T			
TB-AGE-yr	2+	yr	Blim-MT (SSB)	770	MT			
A50-yr	3	yr	Bpa-MT (SSB)	1060	MT			
M-1/T	0.1	1/T	$SSB_{2007}/B_{lim}$	5.384				
M			$F_{2006}/F_{lim}$	0.462				
L50-cm								
MORATOR-yr-yr								

**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	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

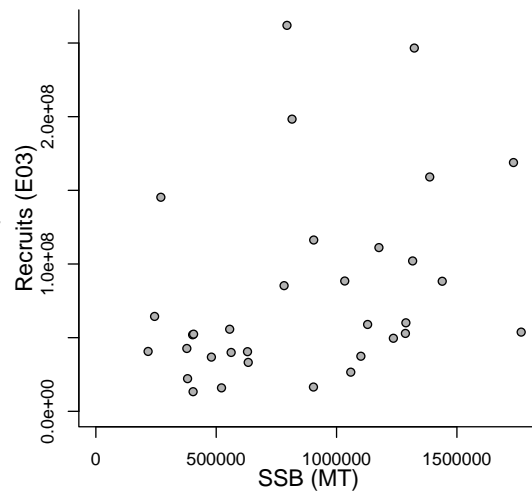
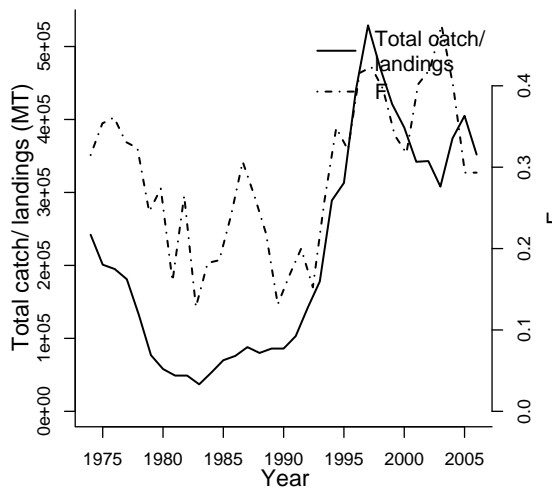
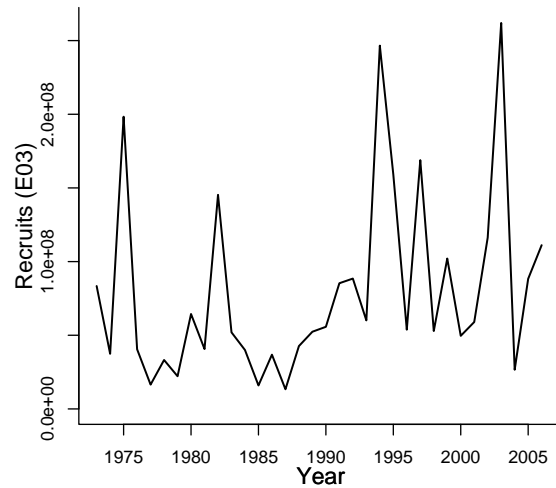
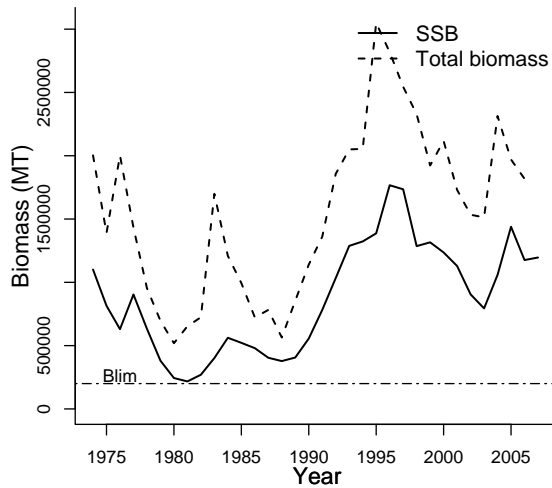
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	3 to 5	yr-yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	AVAILABLE	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Fpa-1/T (F)	0.4	1/T
Blim-MT (SSB)	200000	MT
Bpa-MT (SSB)	275000	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  
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

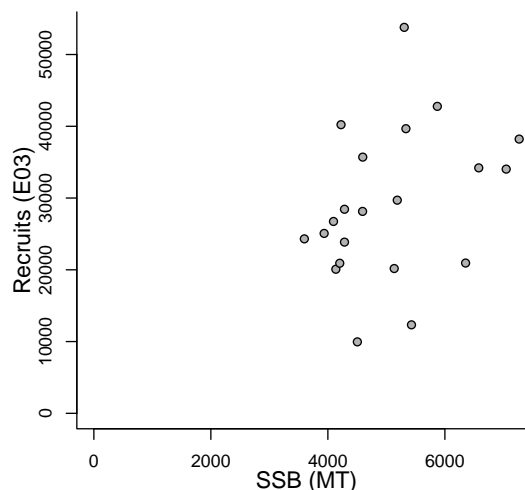
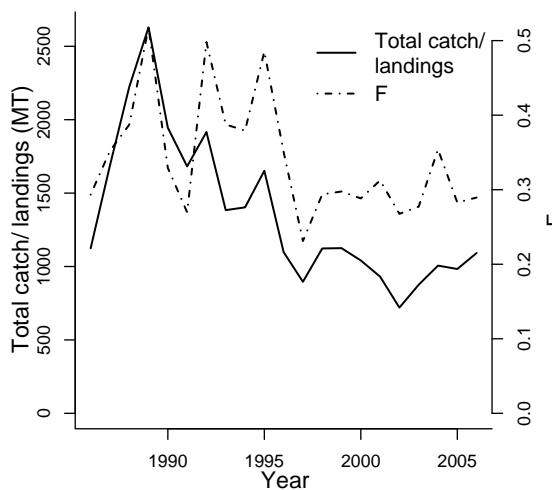
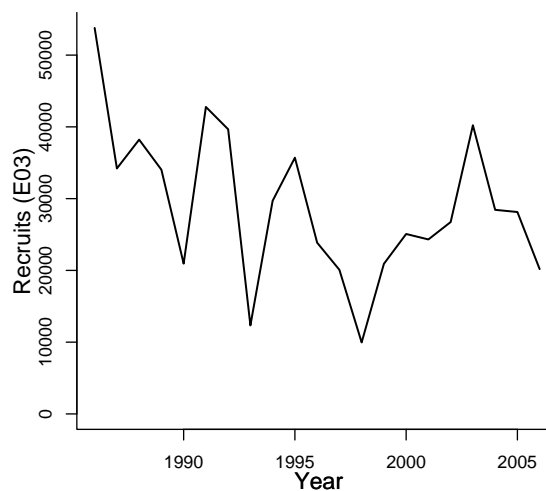
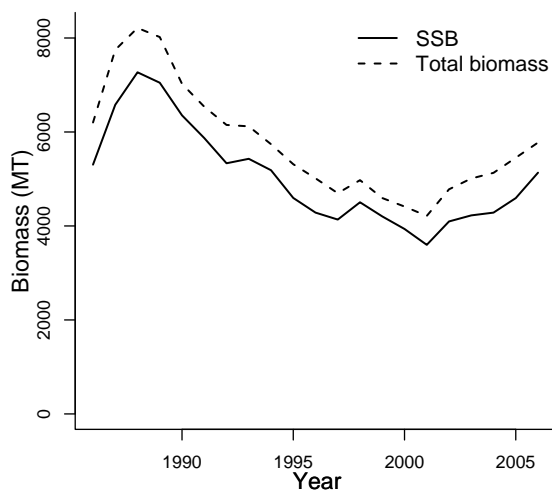
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	0	yr
F-AGE-yr-yr	2 to 4	yr-yr
TB-AGE-yr	0+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.2	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units



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.

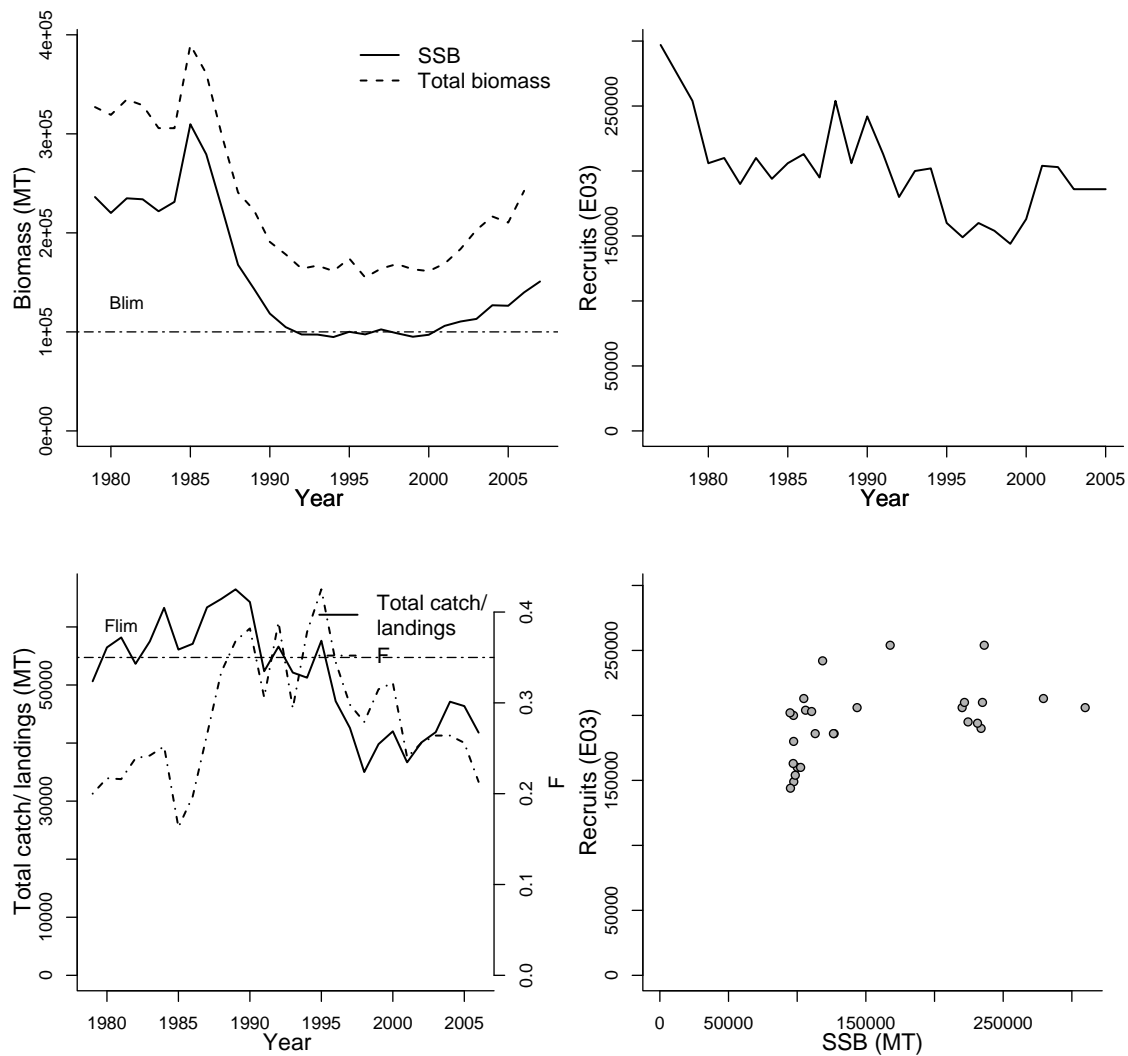
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrim
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1977-2007
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-20
Date last loaded	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			22 - North Sea			na		
Parameter	Value	Units	Reference points					
SSB-AGE-yr	AVAILABLE	yr	Parameter	Value	Units			
REC-AGE-yr	0	yr	Flim-1/T (F)	0.35	1/T			
F-AGE-yr-yr	2 to 6	yr-yr	Fpa-1/T (F)	0.25	1/T			
TB-AGE-yr	0+	yr	Blim-MT (SSB)	100000	MT			
A50-yr	AVAILABLE	yr	Bpa-MT (SSB)	140000	MT			
M-1/T	0.2	1/T	$SSB_{2007}/B_{lim}$	1.509				
M			$F_{2006}/F_{lim}$	0.609				
L50-cm								
MORATOR-yr-yr								

**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.

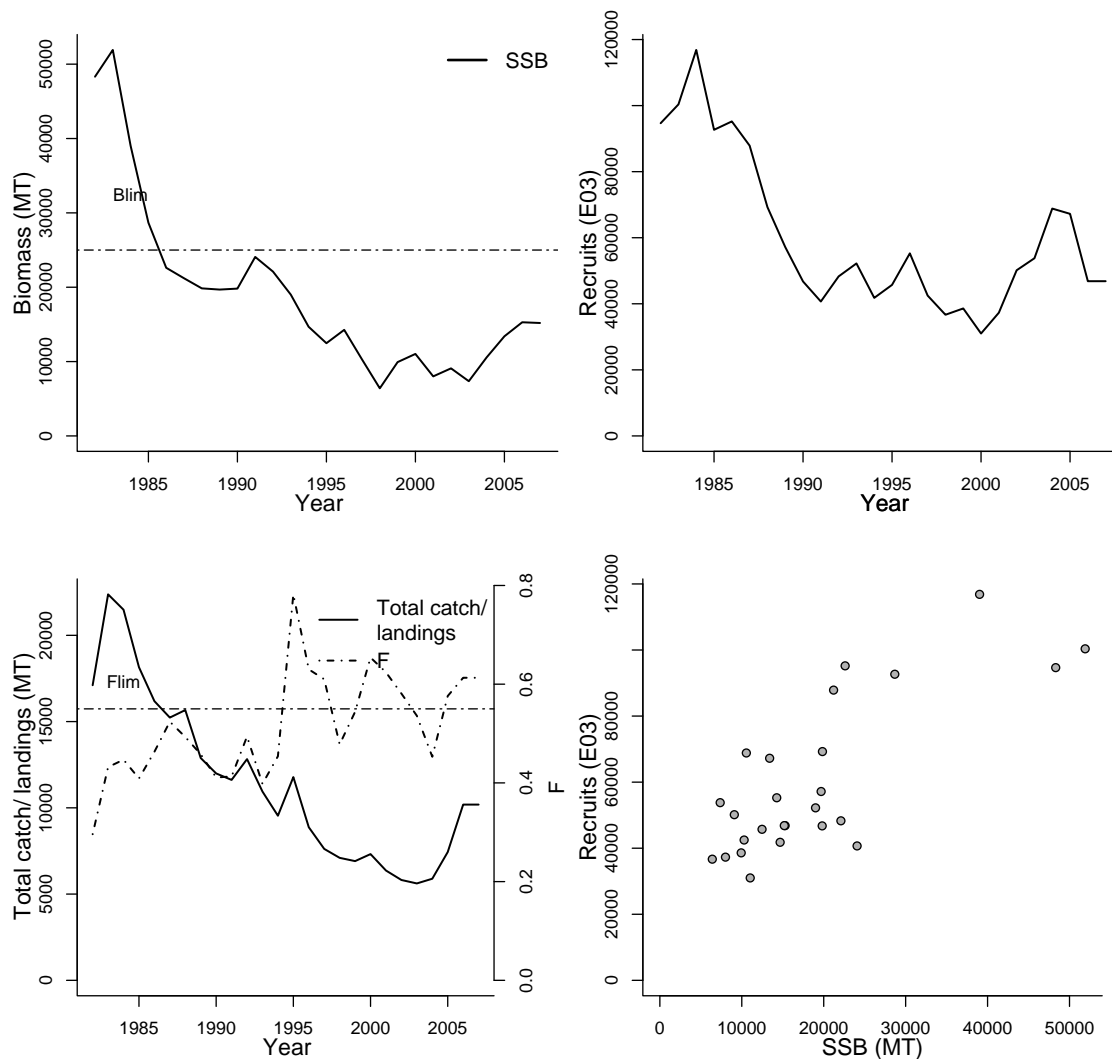
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrim
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1982-2007
Document	ICES-WGHMM-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	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	Reference points					
SSB-AGE-yr	AVAILABLE	yr	Parameter	Value	Units			
REC-AGE-yr	0	yr	Flim-1/T (F)	0.55	1/T			
F-AGE-yr-yr	2 to 5	yr-yr	Fpa-1/T (F)	0.44	1/T			
TB-AGE-yr	0+	yr	Blim-MT (SSB)	25000	MT			
A50-yr	AVAILABLE	yr	Bpa-MT (SSB)	35000	MT			
M-1/T	0.2	1/T	$SSB_{2007}/B_{lim}$	0.608				
M			$F_{2007}/F_{lim}$	1.115				
L50-cm								
MORATOR-yr-yr								

**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

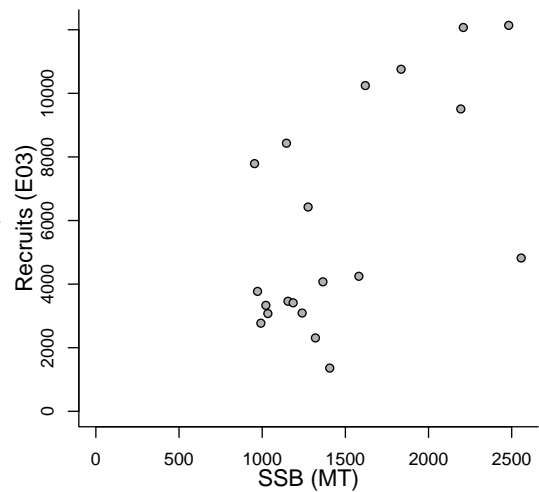
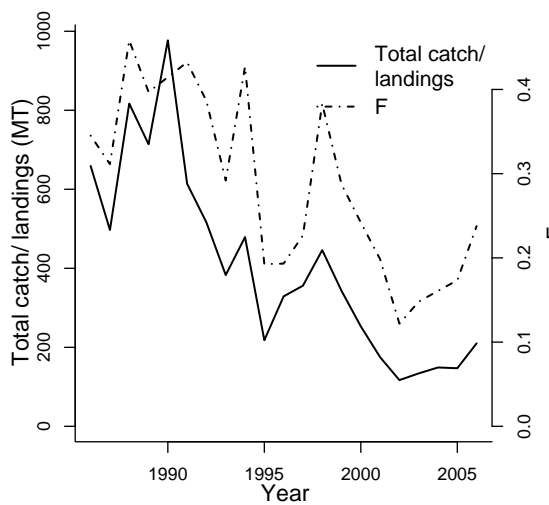
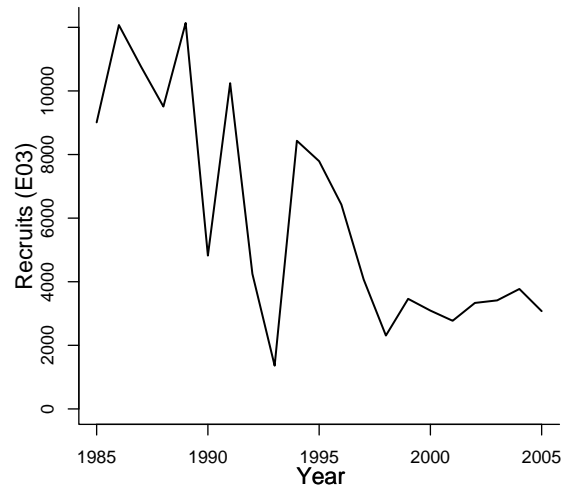
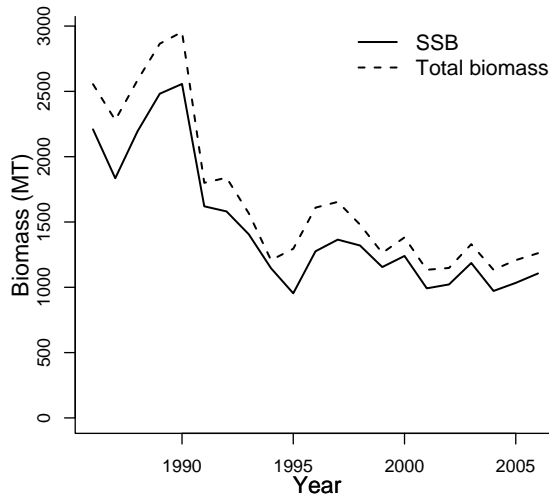
  

Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	2 to 4	yr-yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.2	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units

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	2009-06-01
QA/QC complete	YES
Date approved	2009-05-29

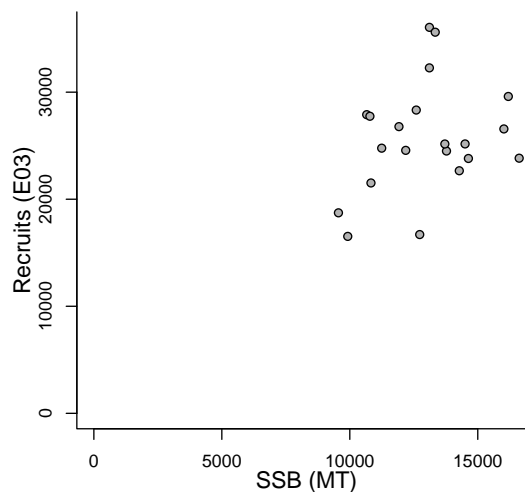
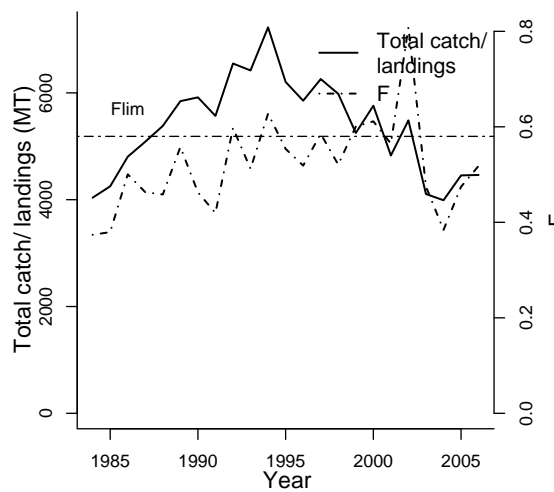
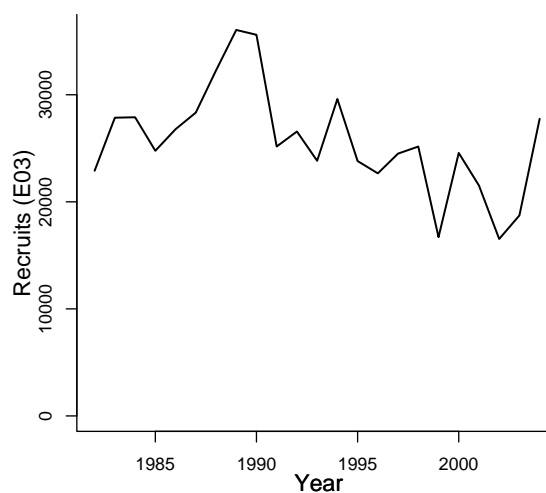
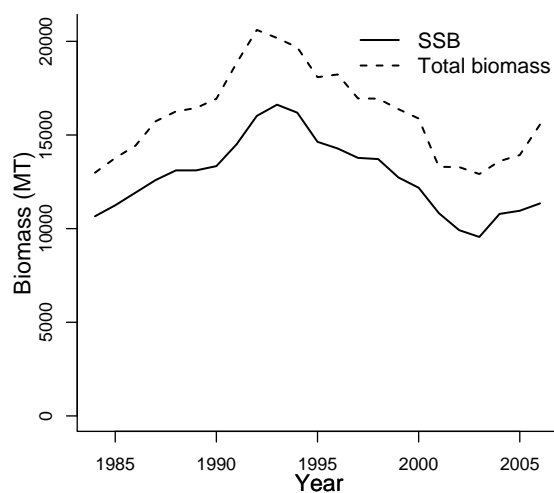
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

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



**Time series minima and maxima**

	SSB	R	F	TB	Catch
Minimum year	1984	1982	1984	1984	1984
Maximum year	2006	2004	2006	2006	2006
Time series minimum	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.

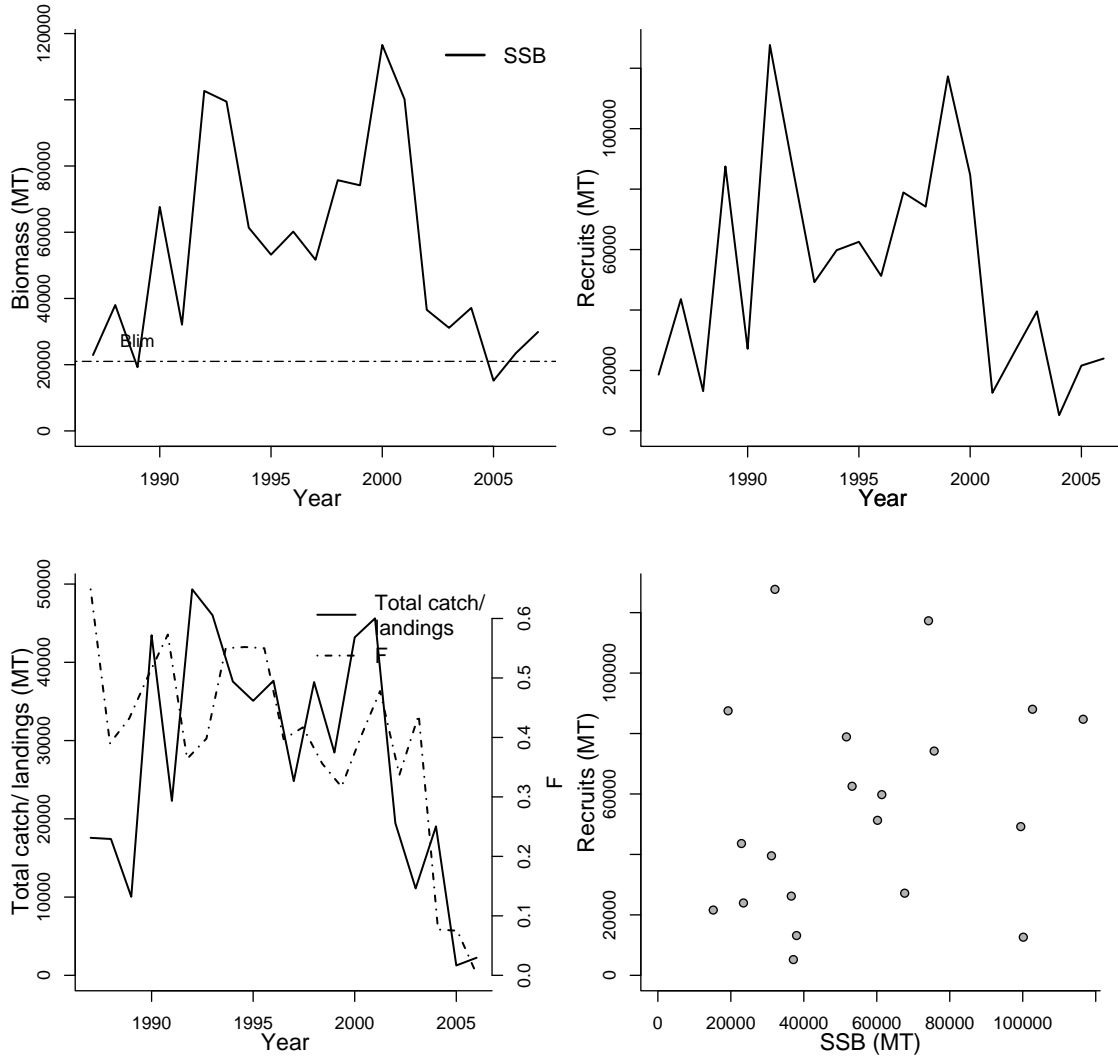
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Mackerel
Assessment authors	Anon
Assessment method	Bayesian Biomass Model
Publication year	2007
Timeseries span	1986-2007
Document	ICES-WGMHSA007.pdf (pdf not in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	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			25 - Iberian Coastal			na																				
Parameter	Value	Units																								
SSB-AGE-yr	1	yr	<table><tr><th colspan="3">Reference points</th></tr><tr><th>Parameter</th><th>Value</th><th>Units</th></tr><tr><td>Fpa-1/T (F)</td><td>1.1</td><td>1/T</td></tr><tr><td>Blim-MT (SSB)</td><td>21000</td><td>MT</td></tr><tr><td>Bpa-MT (SSB)</td><td>33000</td><td>MT</td></tr><tr><td><math>SSB_{2007}/B_{lim}</math></td><td>1.423</td><td></td></tr></table>						Reference points			Parameter	Value	Units	Fpa-1/T (F)	1.1	1/T	Blim-MT (SSB)	21000	MT	Bpa-MT (SSB)	33000	MT	$SSB_{2007}/B_{lim}$	1.423	
Reference points																										
Parameter	Value	Units																								
Fpa-1/T (F)	1.1	1/T																								
Blim-MT (SSB)	21000	MT																								
Bpa-MT (SSB)	33000	MT																								
$SSB_{2007}/B_{lim}$	1.423																									
REC-AGE-yr	1	yr																								
F-AGE-yr-yr	1 to 2	yr-yr																								
TB-AGE-yr	1+	yr																								
A50-yr	1	yr																								
M-1/T	1.2	1/T																								
M																										
L50-cm																										
MORATOR-yr-yr																										

**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.

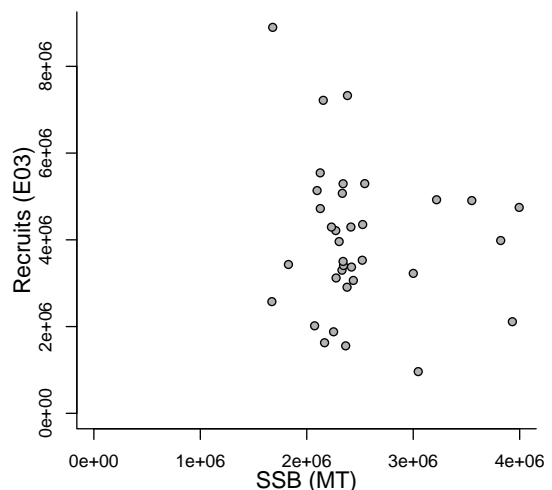
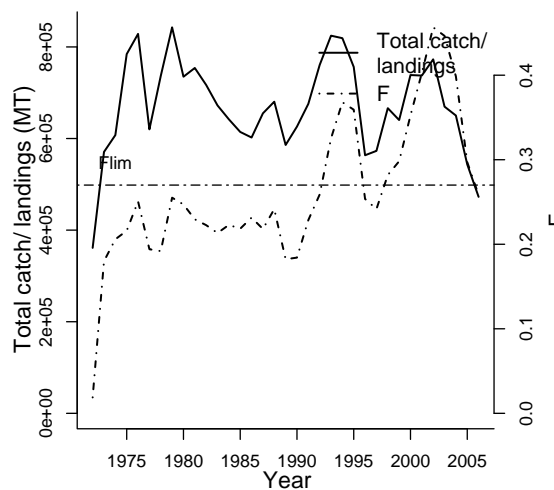
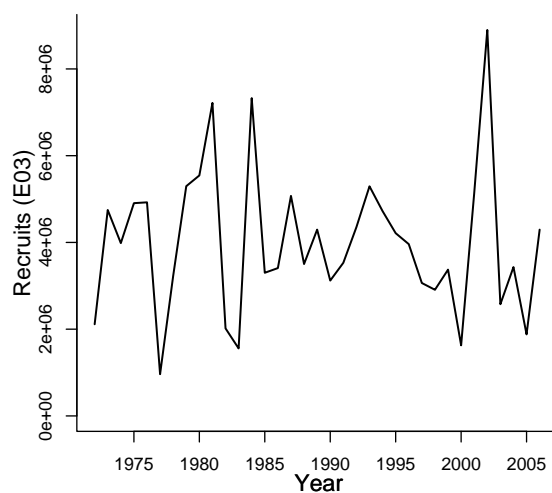
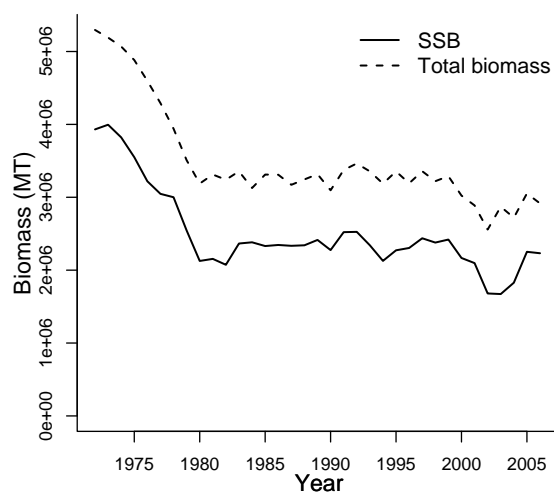
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Mackerel
Assessment authors	Anon
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1972-2007
Document	ICES-WGMHSA07.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-21
Date last loaded	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			25 - Iberian Coastal			22 - North Sea																	
Parameter	Value	Units																					
SSB-AGE-yr	AVAILABLE	yr	<div>Reference points</div> <table><tr><th>Parameter</th><th>Value</th><th>Units</th></tr><tr><td>Flim-1/T (F)</td><td>0.27</td><td>1/T</td></tr><tr><td>Fpa-1/T (F)</td><td>0.17</td><td>1/T</td></tr><tr><td>Bpa-MT (SSB)</td><td>2300000</td><td>MT</td></tr><tr><td><math>F_{2006}/F_{lim}</math></td><td>0.957</td><td></td></tr></table>						Parameter	Value	Units	Flim-1/T (F)	0.27	1/T	Fpa-1/T (F)	0.17	1/T	Bpa-MT (SSB)	2300000	MT	$F_{2006}/F_{lim}$	0.957	
Parameter	Value	Units																					
Flim-1/T (F)	0.27	1/T																					
Fpa-1/T (F)	0.17	1/T																					
Bpa-MT (SSB)	2300000	MT																					
$F_{2006}/F_{lim}$	0.957																						
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																					
M																							
L50-cm																							
MORATOR-yr-yr																							

**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

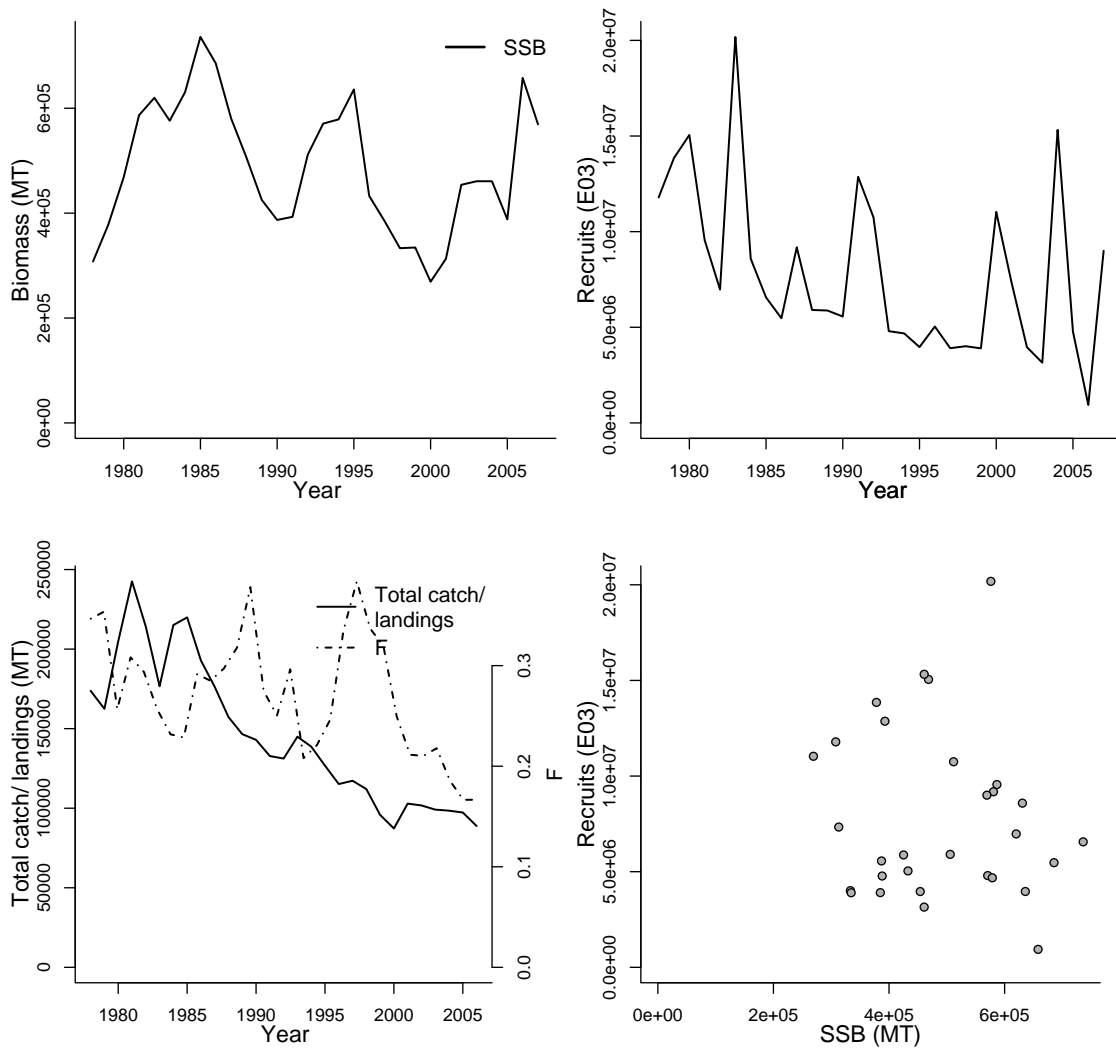
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	0	yr
F-AGE-yr-yr	2 to 5	yr-yr
TB-AGE-yr	0+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.33	1/T
M		
L50-cm		
MORATOR-yr-yr		

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.

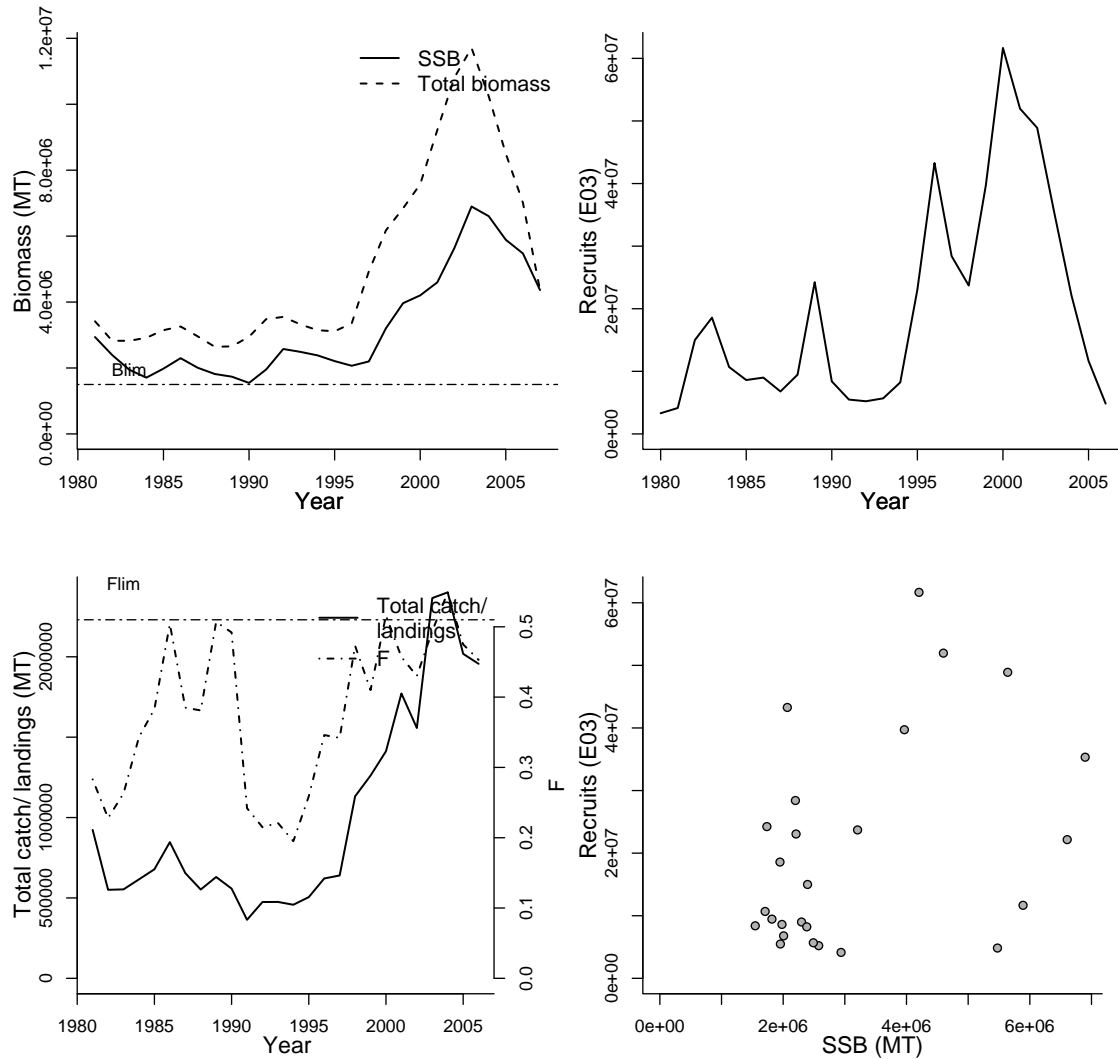
Detail	Value
Management body	ICES
Assessment group	Northern Pelagic and Blue Whiting Fisheries Working Group
Assessment authors	Anon
Assessment method	Stochastic Multi-species (SMS) model
Publication year	2007
Timeseries span	1980-2007
Document	ICES-WGNPBW-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-25
Date last loaded	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		
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	Blim-MT (SSB)	1500000	MT			
A50-yr	AVAILABLE	yr	Bpa-MT (SSB)	2250000	MT			
M-1/T	0.2	1/T	$SSB_{2007}/B_{lim}$	2.909				
M			$F_{2006}/F_{lim}$	0.888				
L50-cm								
MORATOR-yr-yr								



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 Irish Sea atlantic cod (*Gadus morhua*)

Assessment ID: WGN SDS-CODIS-1968-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/381>

Area ID: multinational-ICES-VIIa

General assessment details.

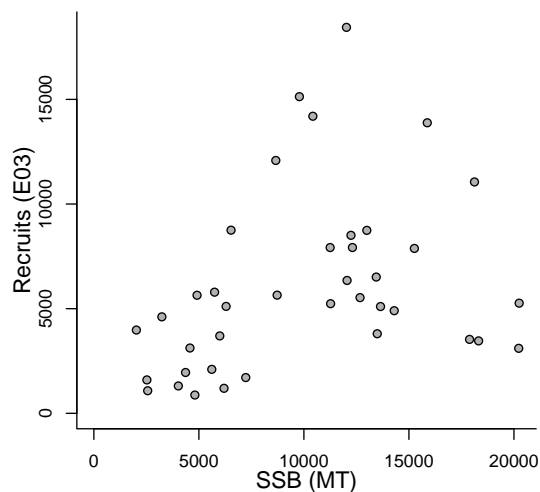
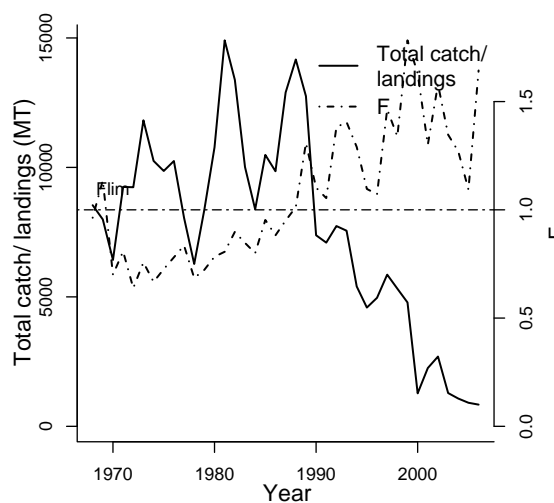
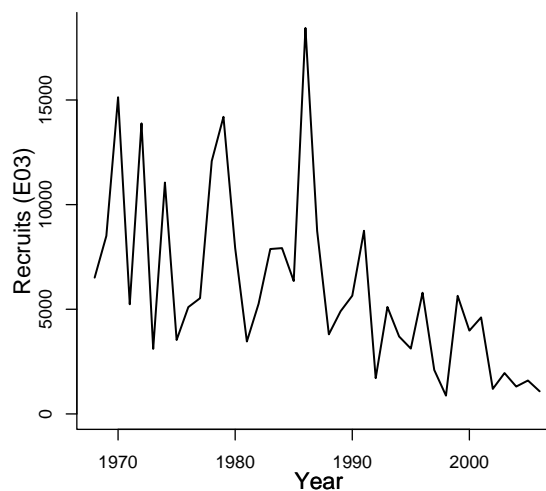
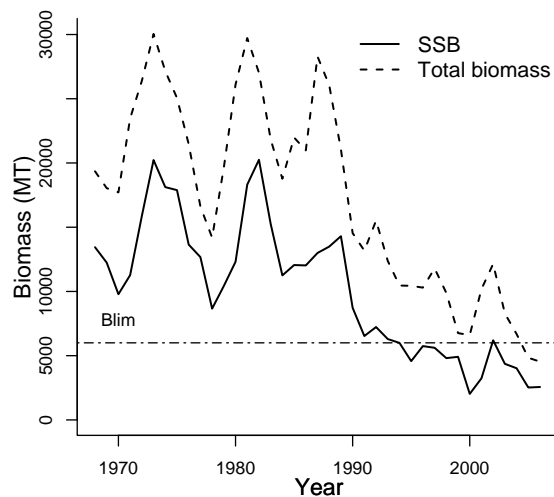
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	The ADAPT approach with year effects in a catch multiplier
Publication year	2007
Timeseries span	1968-2006
Document	ICES-WGN SDS-2007.pdf (pdf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

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	Reference points			
			Parameter	Value	Units	
A50-yr	2	yr				
SSB-AGE-yr	2+	yr	Blim-MT (SSB)	6000	MT	
REC-AGE-yr	0	yr	Bpa-MT (SSB)	10000	MT	
TB-AGE-yr	0+	yr	Fpa-1/T (F)	0.72	1/T	
M-1/T	0.2	1/T	Fmax-1/T	0.32	1/T	
F-AGE-yr-yr	2-4	yr-yr	Flim-1/T (F)	1	1/T	
M			F0.1-1/T	0.18	1/T	
L50-cm			$SSB_{2006}/B_{lim}$	0.427		
MORATOR-yr-yr			$F_{2006}/F_{lim}$	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:WGN SDS-CODVIa-1977-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/382>

Area ID: multinational-ICES-VIa

General assessment details.

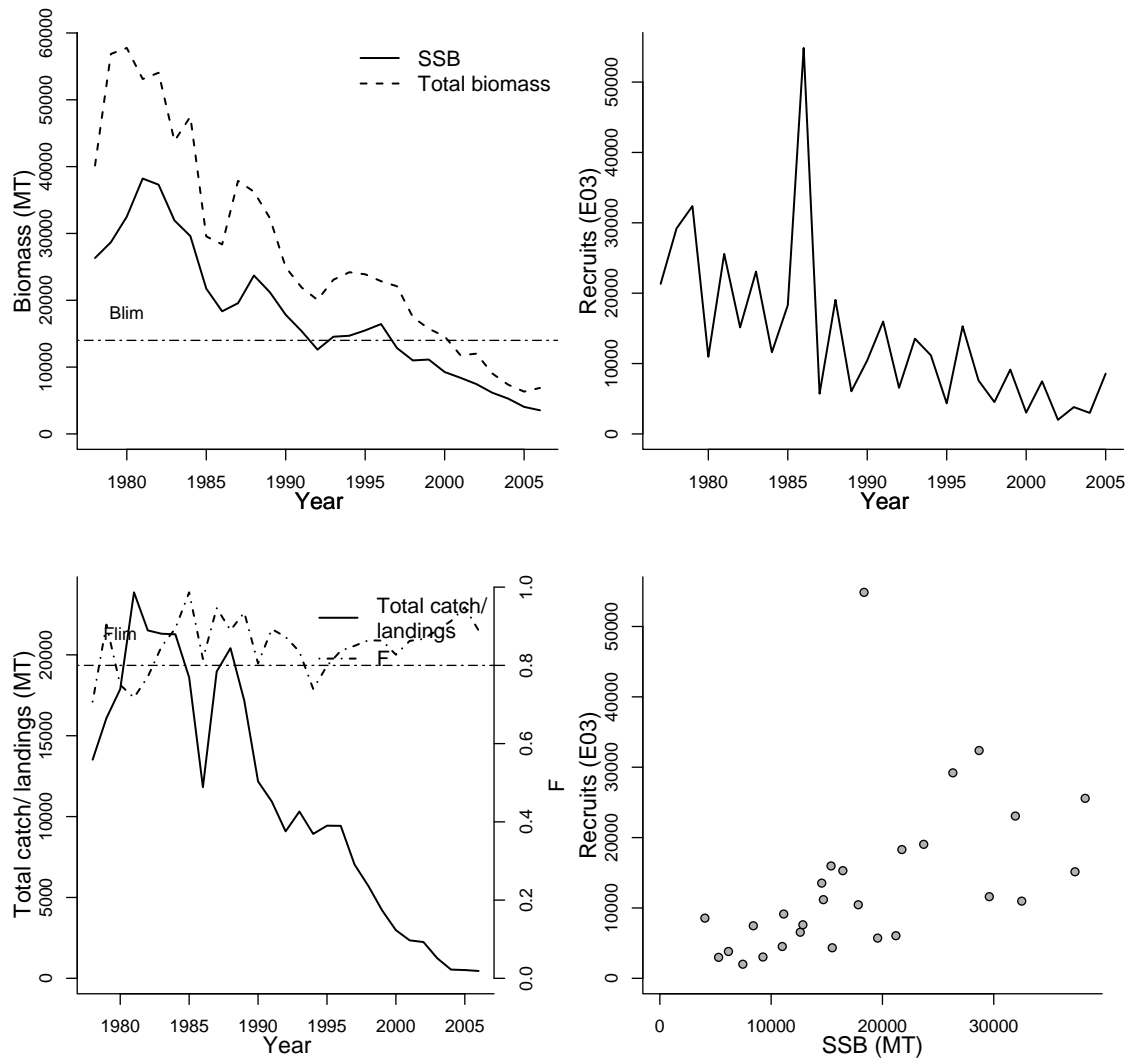
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	State-space catch at age time series analysis
Publication year	2007
Timeseries span	1977-2006
Document	ICES-WGN SDS-2007.pdf (pdf in database)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

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	Reference points			
A50-yr	2	yr	Parameter	Value	Units	
SSB-AGE-yr	2+	yr	Blim-MT (SSB)	14000	MT	
REC-AGE-yr	1	yr	Bpa-MT (SSB)	22000	MT	
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.6	1/T	
M-1/T	0.2	1/T	Fmax-1/T	0.19	1/T	
F-AGE-yr-yr	2-5	yr-yr	Flim-1/T (F)	0.8	1/T	
M			$SSB_{2006}/B_{lim}$	0.252		
L50-cm			$F_{2006}/F_{lim}$	1.111		
MORATOR-yr-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	3530.6	2007.4	0.7072	6332.3	454.5
Time series maximum	38214.9	54850.9	0.9867	57758.8	23864.6
Units	MT	E03	1/T	MT	MT



# Assessment of Irish Sea haddock (*Melanogrammus aeglefinus*)

Assessment ID: WGN SDS-HADIS-1972-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/383>

Area ID: multinational-ICES-VIIa

General assessment details.

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

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

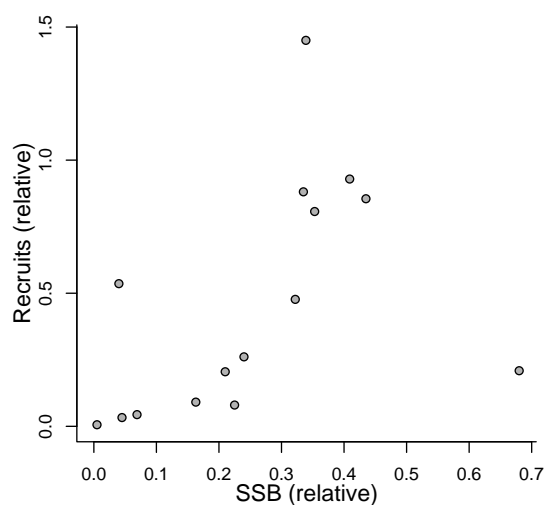
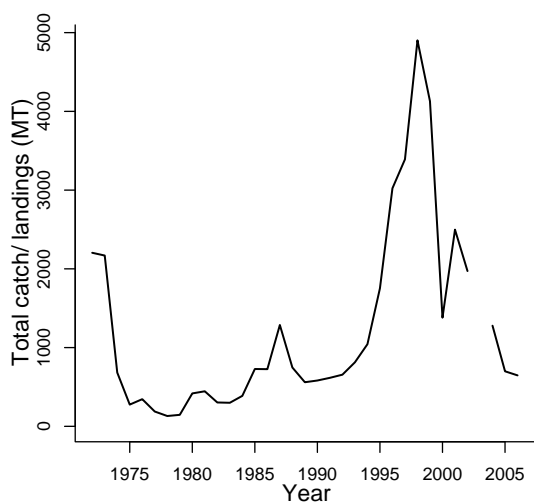
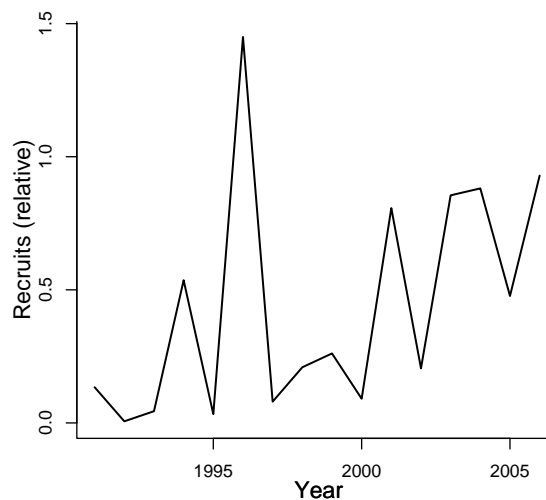
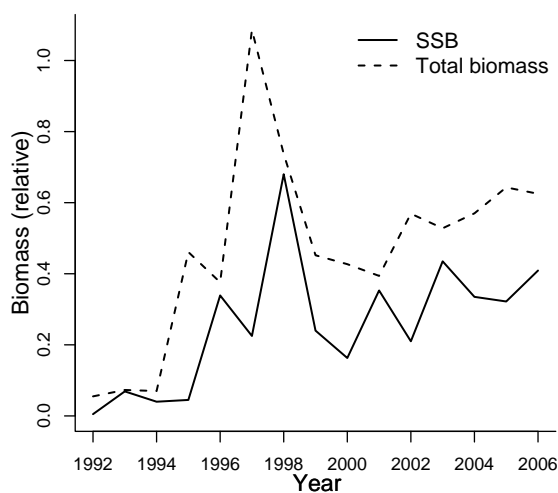
Parameter	Value	Units
A50-yr	2	yr
SSB-AGE-yr	2+	yr
REC-AGE-yr	0	yr
M-1/T	0.2	1/T
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Fpa-1/T (F)	0.5	1/T
Fmax-1/T	0.35	1/T

**Time series minima and maxima**

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



# Assessment of West of Scotland haddock (*Melanogrammus aeglefinus*)

Assessment ID: WGN SDS-HAD VIa-1977-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/384>

Area ID: multinational-ICES-VIa

General assessment details.

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

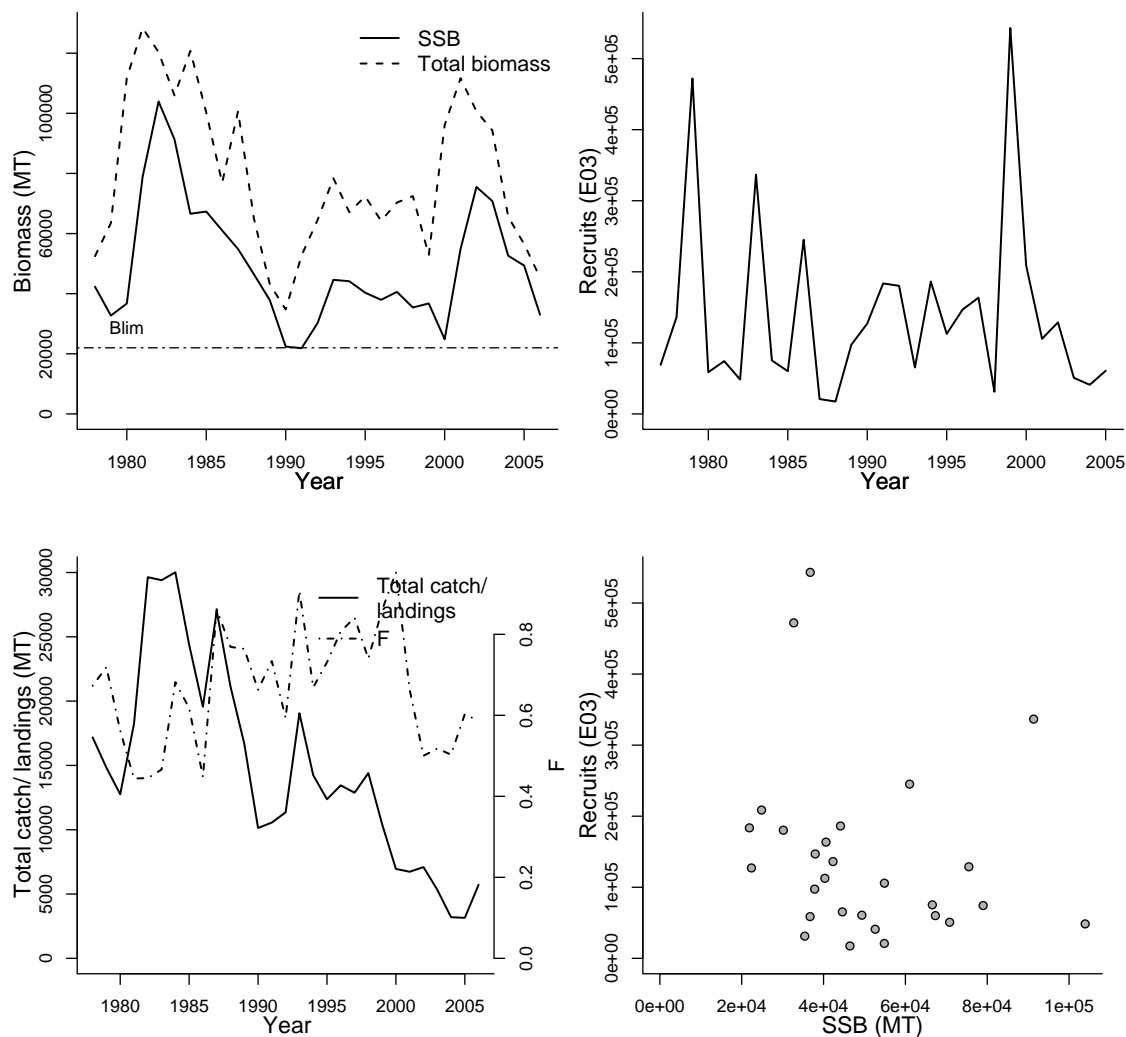
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME	tertiary LME		
24 - Celtic-Biscay Shelf			na	na		
Parameter	Value	Units	Reference points			
			Parameter	Value	Units	
A50-yr	2	yr				
SSB-AGE-yr	2+	yr				
REC-AGE-yr	1	yr	Blim-MT (SSB)	22000	MT	
TB-AGE-yr	1+	yr	Bpa-MT (SSB)	30000	MT	
M-1/T	0.2	1/T	Fpa-1/T (F)	0.5	1/T	
F-AGE-yr-yr	2-6	yr-yr	F0.1-1/T	0.19	1/T	
M			Fmax-1/T	0.21	1/T	
L50-cm			$SSB_{2006}/B_{lim}$	1.501		
MORATOR-yr-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:WGNSSDS-PLAICIS-1962-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/385>

Area ID: multinational-ICES-VIIa

General assessment details.

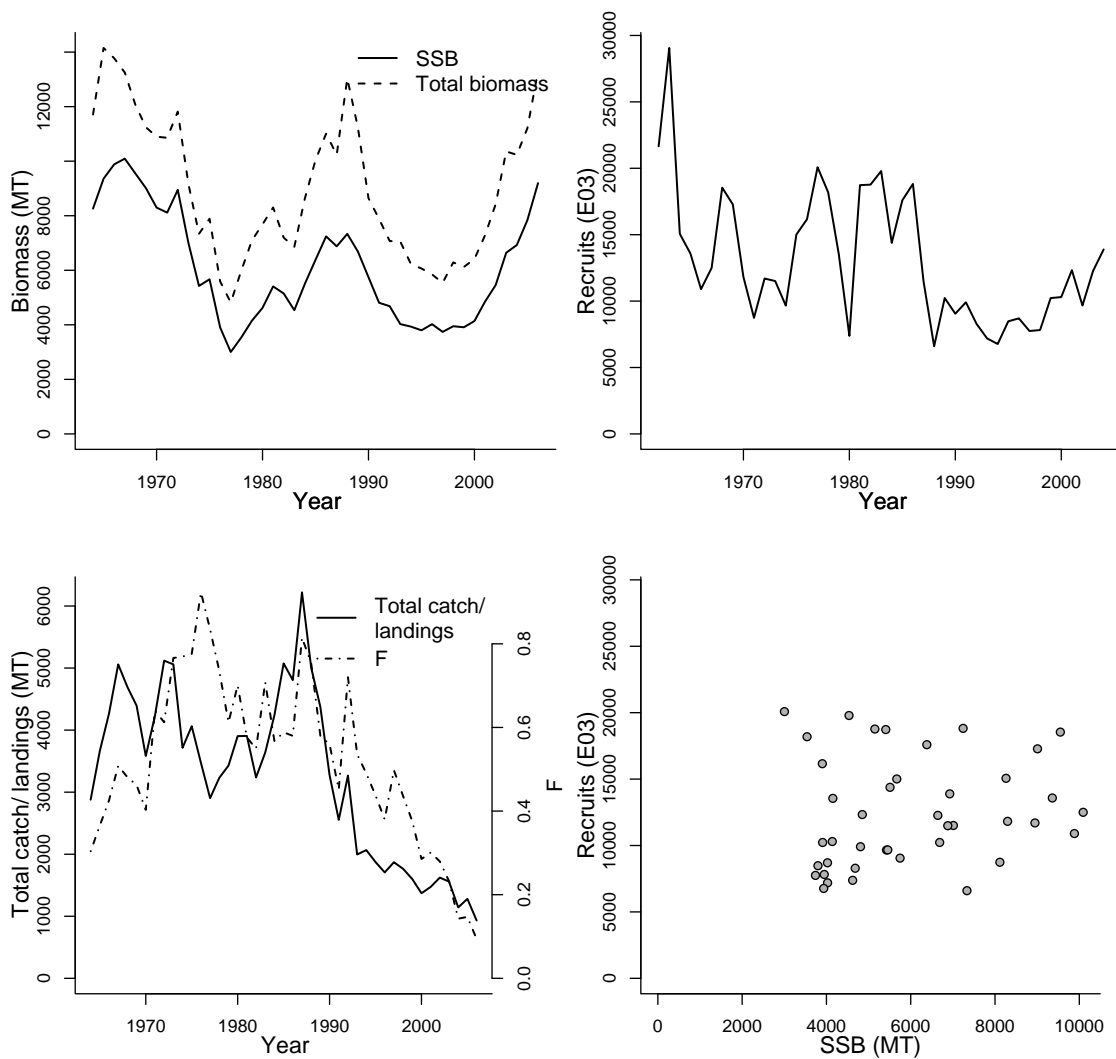
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Integrated Catch-at-age Analysis
Publication year	2007
Timeseries span	1962-2006
Document	ICES-WGNSSDS-2007.pdf (pdf in database)
Recorder	MINTO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

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

primary LME			secondary LME	tertiary LME		
24 - Celtic-Biscay Shelf			na	na		
Parameter	Value	Units	Reference points			
A50-yr	3	yr	Parameter	Value	Units	
SSB-AGE-yr	2+	yr	Fmax-1/T	0.36	1/T	
REC-AGE-yr	2	yr	F0.1-1/T	0.13	1/T	
TB-AGE-yr	2+	yr	Fpa-1/T (F)	0.45	1/T	
F-AGE-yr-yr	3-6	yr-yr	Bpa-MT (SSB)	3100	MT	
M-1/T	0.12	1/T				
M						
L50-cm						
MORATOR-yr-yr						

**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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/386>

Area ID: multinational-ICES-VIIa

General assessment details.

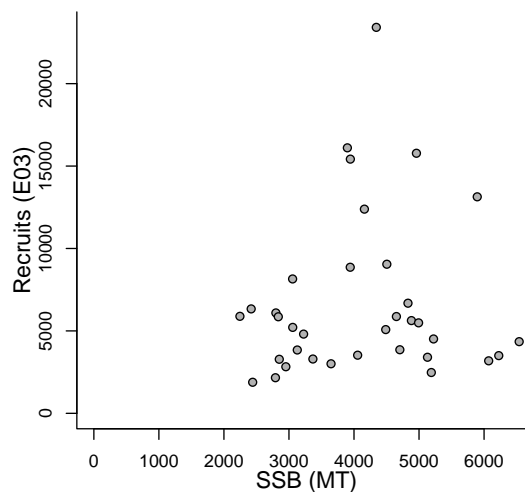
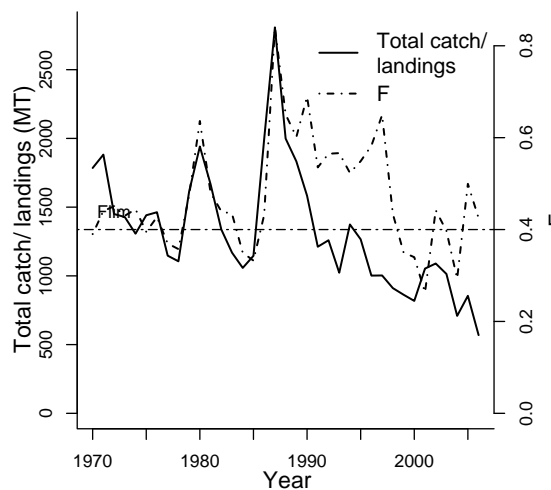
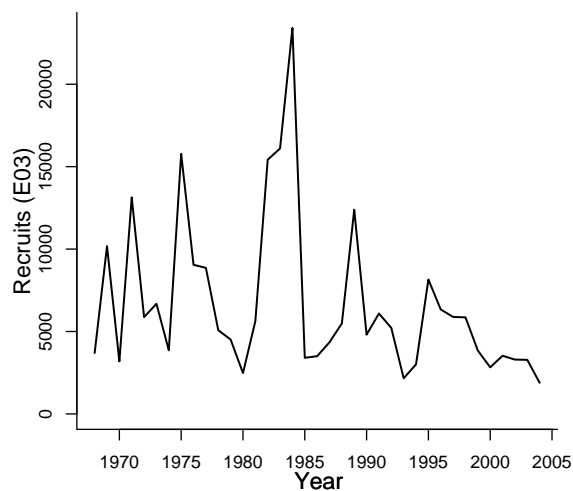
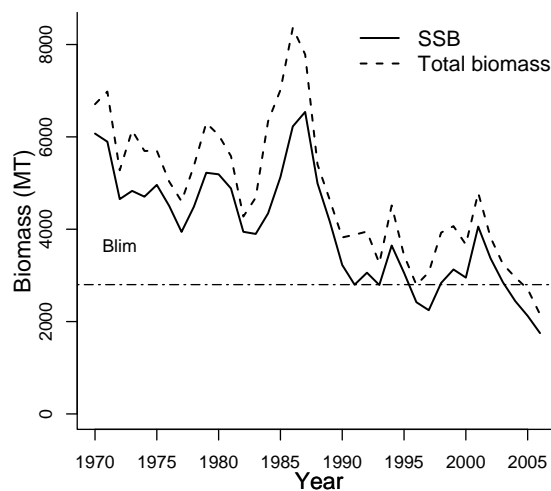
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1968-2006
Document	ICES-WGNSDS-2007.pdf (pdf in database)
Recorder	MINTO
Date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

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

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

**Time series minima and maxima**

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



# Assessment of West of Scotland whiting (*Merlangius merlangus*)

Assessment ID: WGN SDS-WHITVla-1984-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/387>

Area ID: multinational-ICES-Vla

General assessment details.

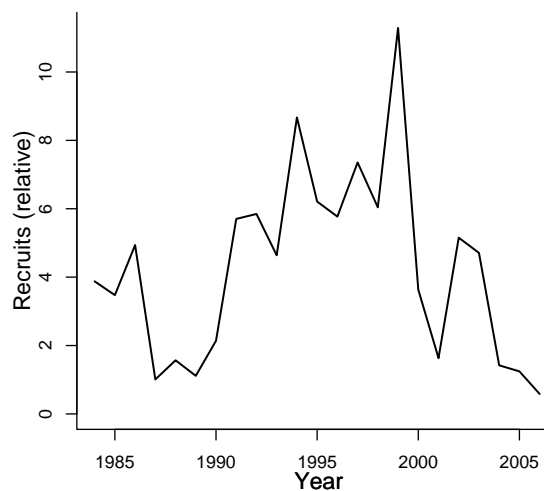
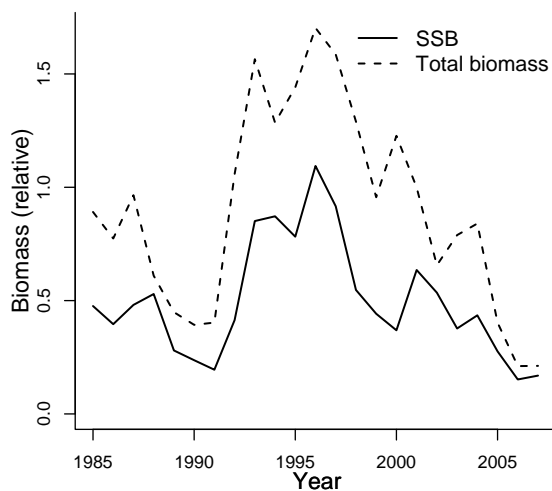
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Northern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Survey based stock assessment method
Publication year	2007
Timeseries span	1984-2007
Document	ICES-WGN SDS-2007.pdf (pdf in database)
Recorder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

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

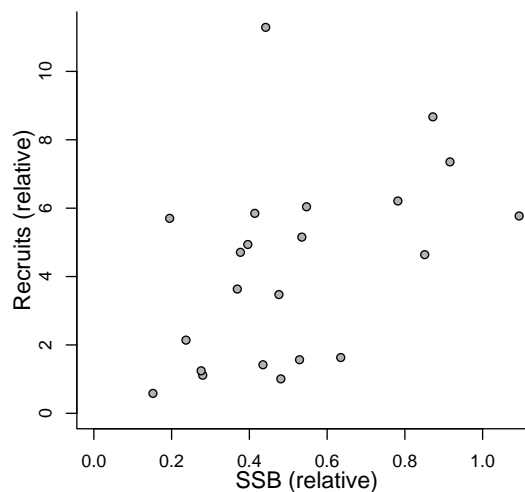
primary LME		secondary LME	tertiary LME
24 - Celtic-Biscay Shelf		na	na
Parameter	Value	Units	
A50-yr	2	yr	
SSB-AGE-yr	2+	yr	
REC-AGE-yr	1	yr	
M-1/T	0.2	1/T	
TB-AGE-yr	1+	yr	
F-AGE-yr			
M			
L50-cm			
MORATOR-yr-yr			

Reference points		
Parameter	Value	Units

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	



No exploitation  
data available



# Assessment of North Sea atlantic cod (*Gadus morhua*)

Assessment ID:WGNSSK-CODNS-1962-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/398>

Area ID: multinational-ICES-IV

General assessment details.

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

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

	primary LME	secondary LME	tertiary LME
	22 - North Sea	na	na

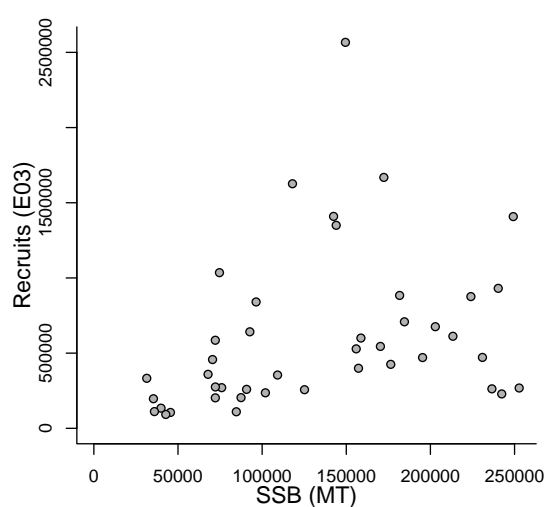
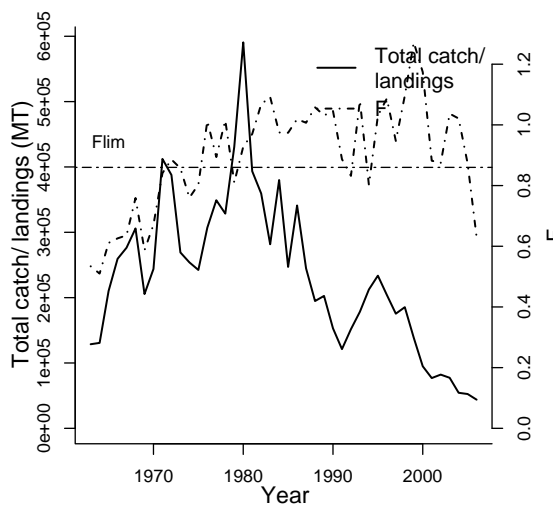
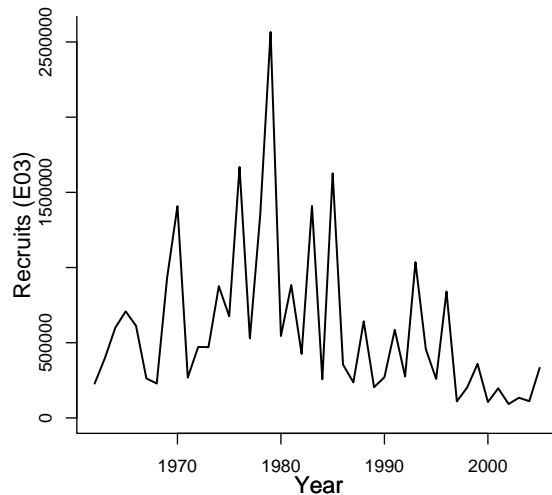
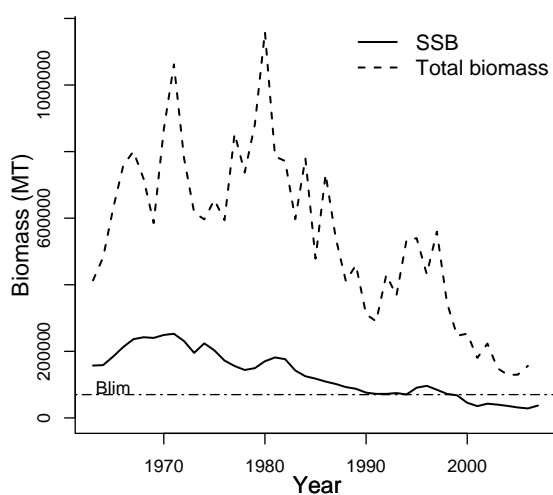
  

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
F-AGE-yr-yr	2-4	yr-yr	Flim-1/T (F)	0.86	1/T
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.65	1/T
A50-yr	3-4	yr	Blim-MT (SSB)	70000	MT
M-1/T	0.2 for 4+	1/T	Bpa-MT (SSB)	150000	MT
REC-AGE			$SSB_{2007}/B_{lim}$	0.531	
SSB-AGE-yr			$F_{2006}/F_{lim}$	0.733	
M					
L50-cm					
MORATOR-yr-yr					



**Time series minima and maxima**

	SSB	R	F	TB	Catch
Minimum year	1963	1962	1963	1963	1963
Maximum year	2007	2005	2006	2006	2006
Time series minimum	28481	92257	0.51	129581	43856
Time series maximum	252747	2566638	1.272	1159434	590678
Units	MT	E03	1/T	MT	MT



# Assessment of IIIa and North Sea haddock (*Melanogrammus aeglefinus*)

Assessment ID: WGNSSK-HADNS-IIIa-1963-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/388>

Area ID: multinational-ICES-IIIa-IV

General assessment details.

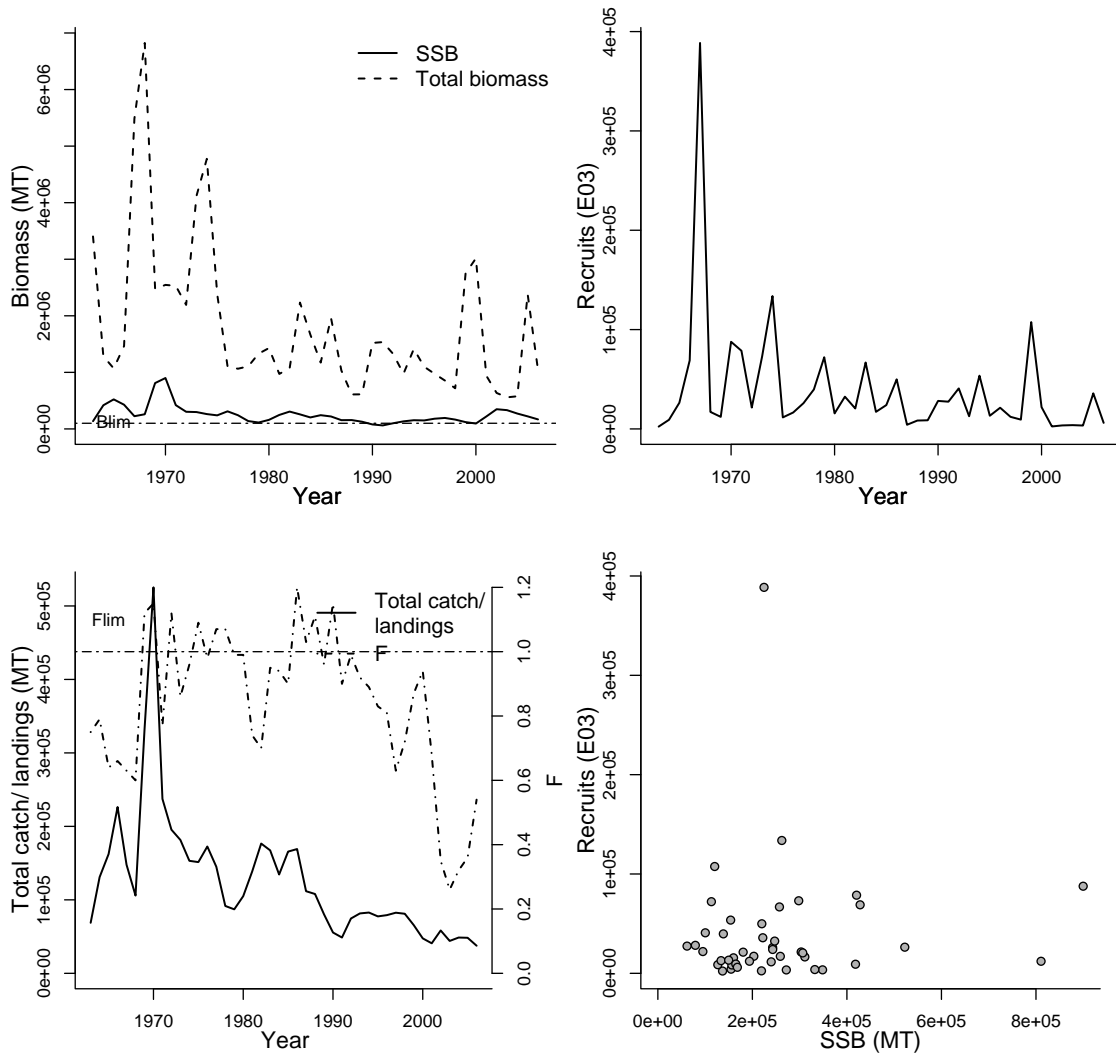
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1963-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder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

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

			primary LME	secondary LME	tertiary LME
			22 - North Sea	na	na
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
A50-yr	2-3	yr			
SSB-AGE-yr	1+	yr			
REC-AGE-yr	0	yr	Blim-MT (SSB)	100000	MT
TB-AGE-yr	0+	yr	Bpa-MT (SSB)	140000	MT
M-1/T	Age specific	1/T	Fpa-1/T (F)	0.7	1/T
F-AGE-yr-yr	2-4	yr-yr	Flim-1/T (F)	1	1/T
M			$SSB_{2006}/B_{lim}$	1.682	
L50-cm			$F_{2006}/F_{lim}$	0.540	
MORATOR-yr-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	2316.936	0.26	558318	37565
Time series maximum	899883	388564.67	1.2	6823944	525325
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.marinemarinebiodiversity.ca/ramlegacy/ramlegacy-bug-reporting/28>

Area ID: multinational-ICES-VIb

General assessment details.

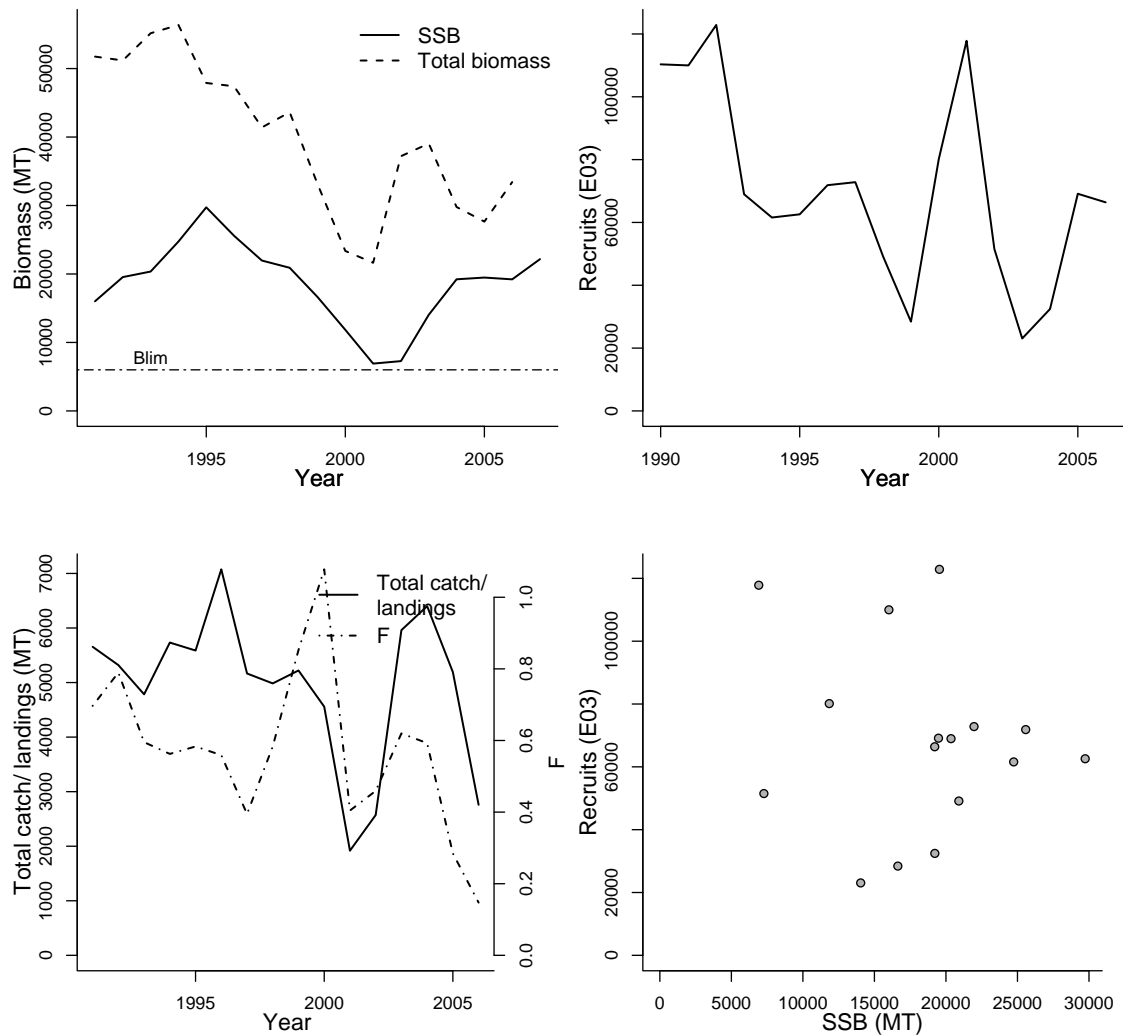
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1990-2007
Document	ICES-WGNSSD-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-20
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	Reference points			
SSB-AGE-yr	2.5	yr	Parameter	Value	Units	
REC-AGE-yr	1	yr	Fpa-1/T (F)	0.4	1/T	
F-AGE-yr-yr	2 to 5	yr-yr	Blim-MT (SSB)	6000	MT	
TB-AGE-yr	1+	yr	Bpa-MT (SSB)	9000	MT	
A50-yr	2.5	yr	$SSB_{2007}/B_{lim}$	3.695		
M-1/T	0.2	1/T				
M						
L50-cm						
MORATOR-yr-yr						

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 North Sea norway pout (*Trisopterus esmarkii*)

Assessment ID:WGNSSK-NPOUTNS-1983-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/389>

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	1983-2007
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder	MINTO
Date entered	2008-04-13
Date last loaded	2009-06-10
QA/QC complete	YES
Date approved	2009-06-10

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

	primary LME	secondary LME	tertiary LME
	22 - North Sea	na	na

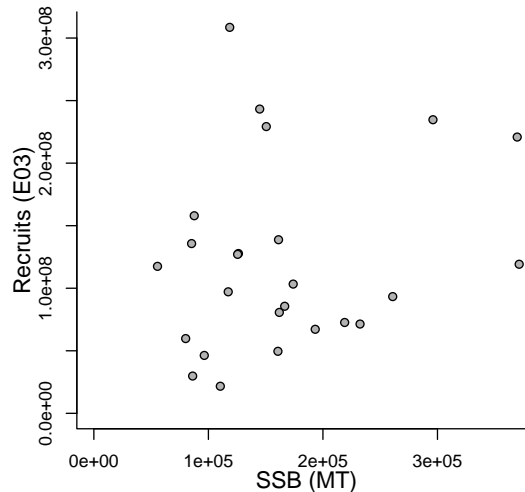
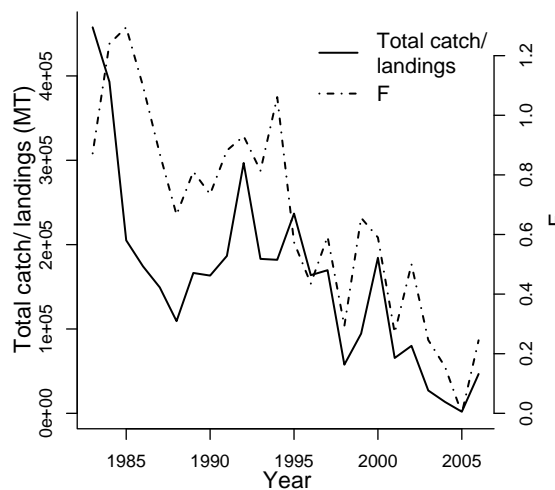
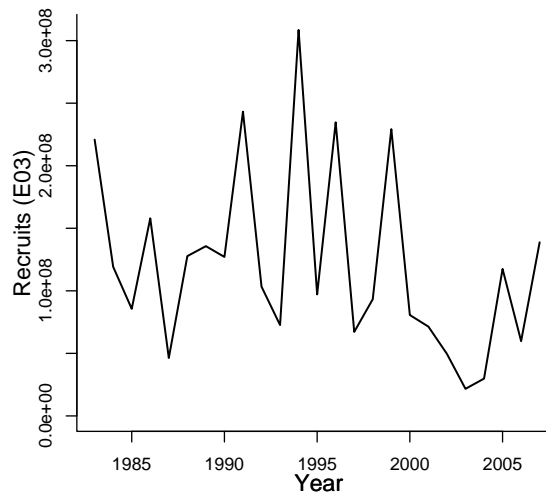
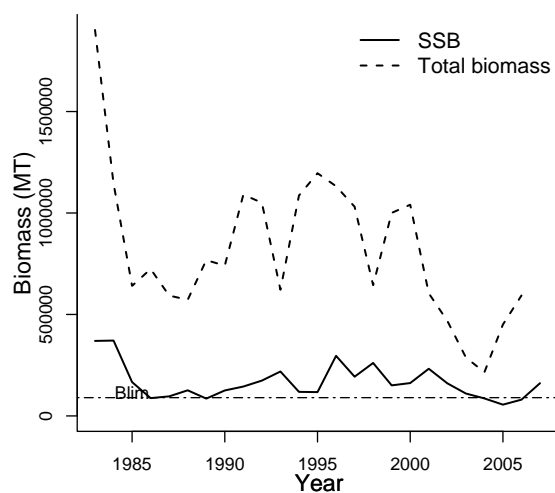
Parameter	Value	Units
A50-yr	1-2	yr
SSB-AGE-yr	1+	yr
REC-AGE-yr	0	yr
TB-AGE-yr	0+	yr
M-1/T	0.4	1/T
F-AGE-yr-yr	1-2	yr-yr
M		
L50-cm		
MORATOR-yr-yr		

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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/390>

Area ID: multinational-ICES-VIIId

General assessment details.

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

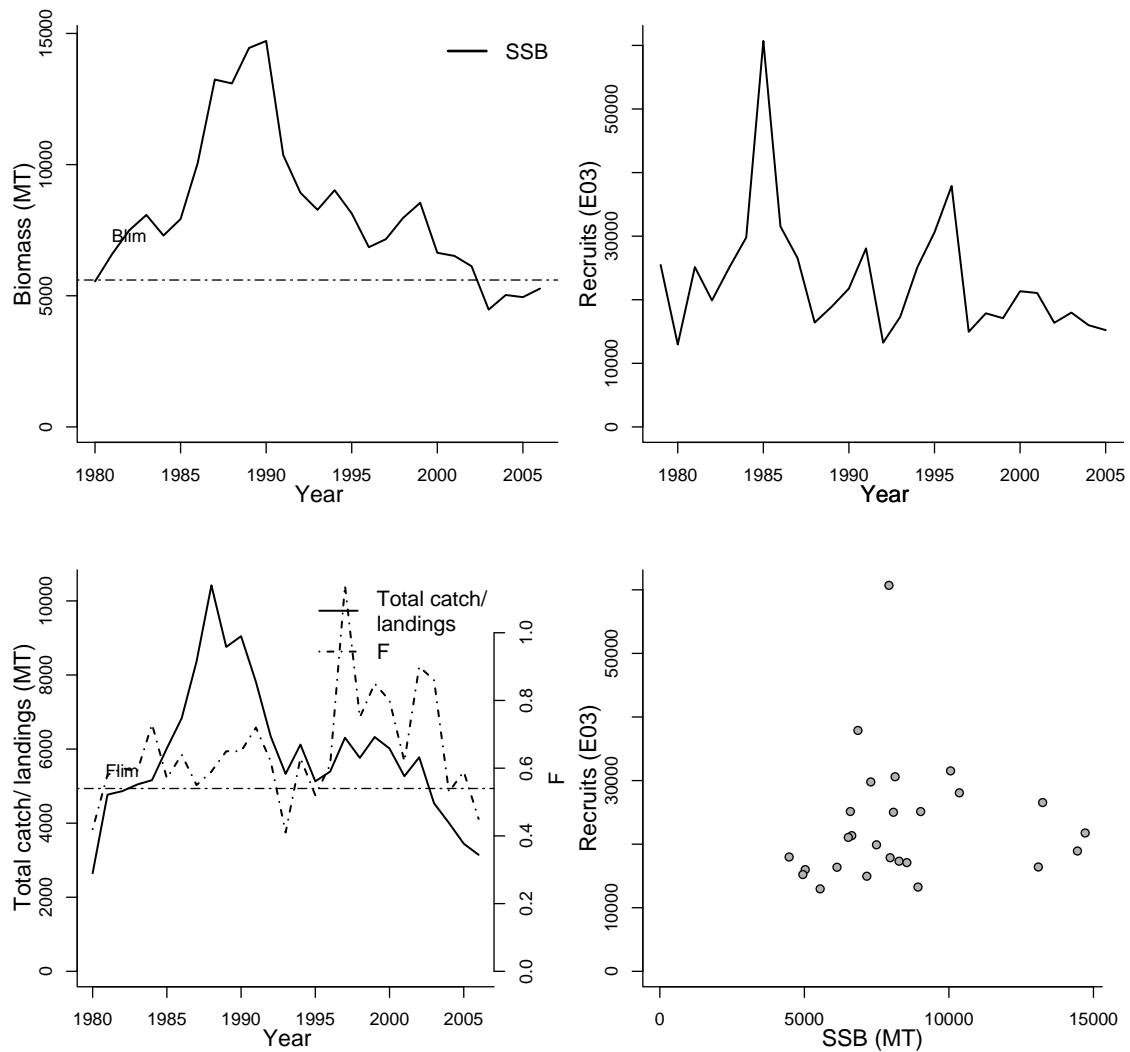
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME	tertiary LME		
24 - Celtic-Biscay Shelf			na	na		
Parameter	Value	Units	Reference points			
A50-yr	3	yr	Parameter	Value	Units	
SSB-AGE-yr	2+	yr	Blim-MT (SSB)	5600	MT	
REC-AGE-yr	1	yr	Bpa-MT (SSB)	8000	MT	
TB-AGE-yr	1+	yr	Flim-1/T (F)	0.54	1/T	
M-1/T	0.1	1/T	Fpa-1/T (F)	0.45	1/T	
F-AGE-yr-yr	3-6	yr-yr	$SSB_{2006}/B_{lim}$	0.942		
M			$F_{2006}/F_{lim}$	0.833		
L50-cm						
MORATOR-yr-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-1976-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/391>

Area ID: multinational-ICES-IIIa

General assessment details.

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

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

	primary LME	secondary LME	tertiary LME
	22 - North Sea	na	na

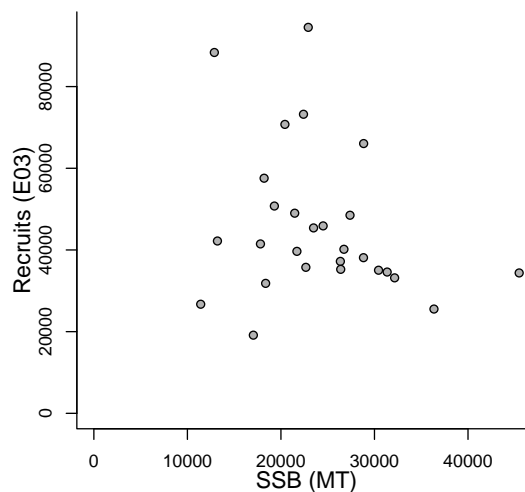
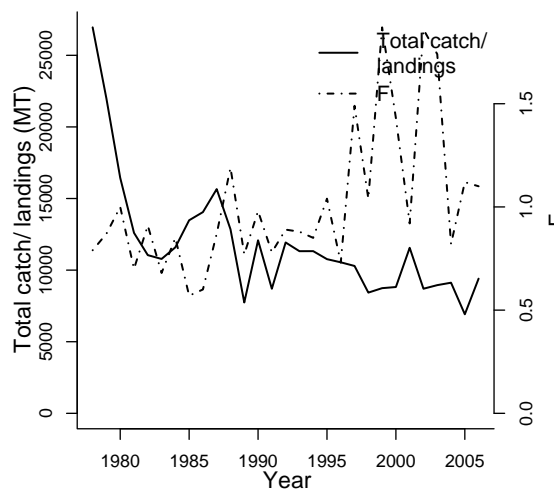
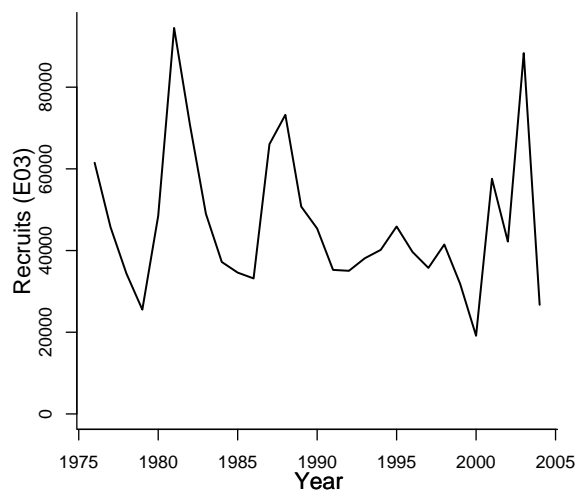
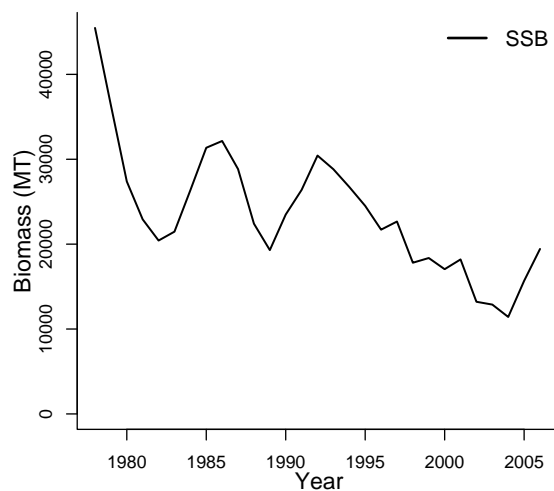
Parameter	Value	Units
A50-yr	2	yr
SSB-AGE-yr	2+	yr
REC-AGE-yr	2	yr
M-1/T	0.1	1/T
F-AGE-yr-yr	4-8	yr-yr
TB-AGE-yr	2+	yr
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Bpa-MT (SSB)	24000	MT
Fpa-1/T (F)	0.73	1/T

**Time series minima and maxima**

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



# Assessment of North Sea european plaice (*Pleuronectes platessa*)

Assessment ID: WGNSSK-PLAICNS-1956-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/392>

Area ID: multinational-ICES-IV

General assessment details.

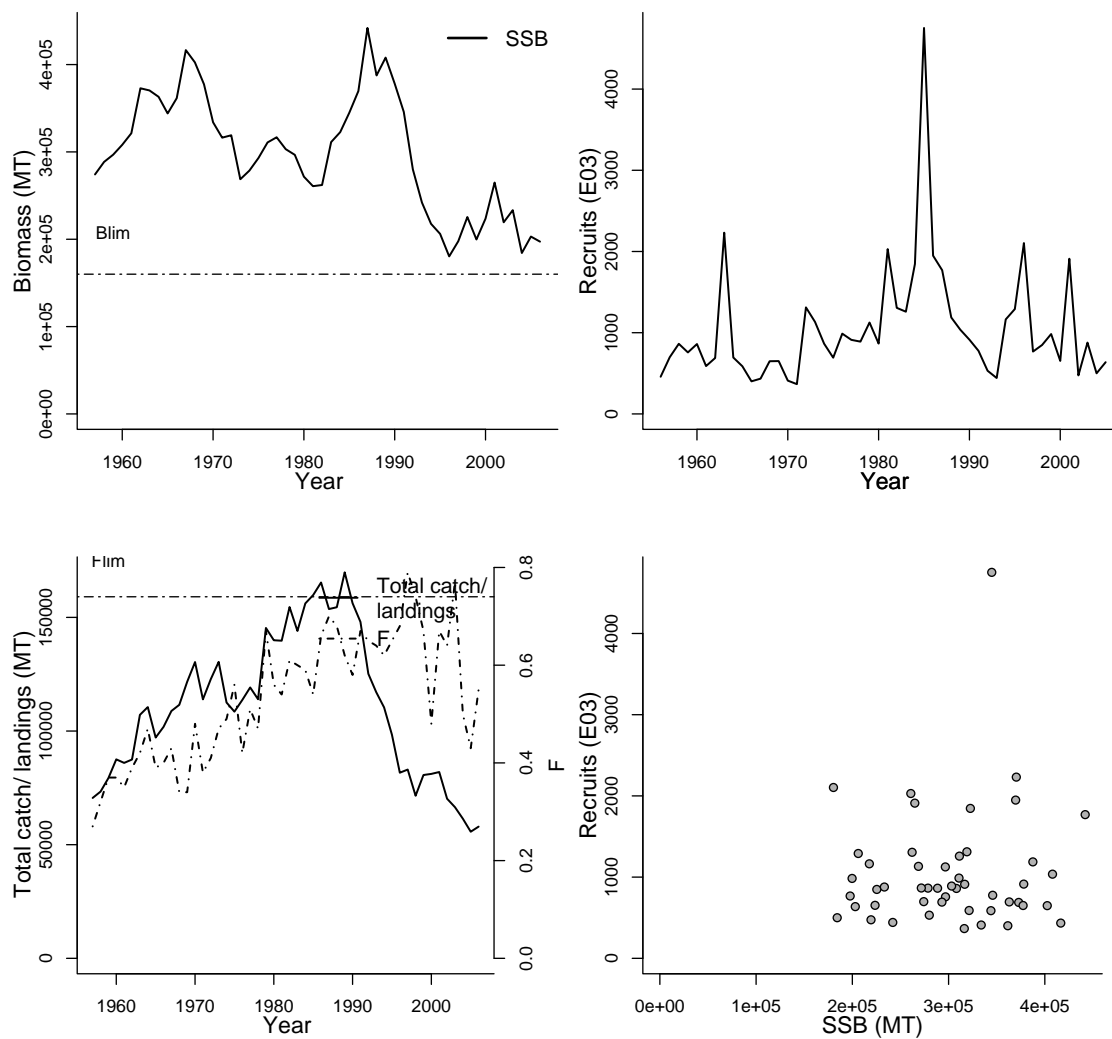
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1956-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder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

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

primary LME			secondary LME			tertiary LME		
22 - North Sea			na			na		
Parameter	Value	Units	Reference points					
A50-yr	2-3	yr	Parameter	Value	Units			
SSB-AGE-yr	2+	yr	Blim-MT (SSB)	160000	MT			
REC-AGE-yr	1	yr	Bpa-MT (SSB)	230000	MT			
M-1/T	0.1	1/T	Fpa-1/T (F)	0.6	1/T			
F-AGE-yr-yr	2-6	yr-yr	Flim-1/T (F)	0.74	1/T			
TB-AGE-yr	1+	yr	F0.1-1/T	0.17	1/T			
M			$SSB_{2006}/B_{lim}$	1.233				
L50-cm			$F_{2006}/F_{lim}$	0.743				
MORATOR-yr-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	180384	366.601	0.27		55700
Time series maximum	441943	4752.726	0.79		169818
Units	MT	E03	1/T		MT



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

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

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

General assessment details.

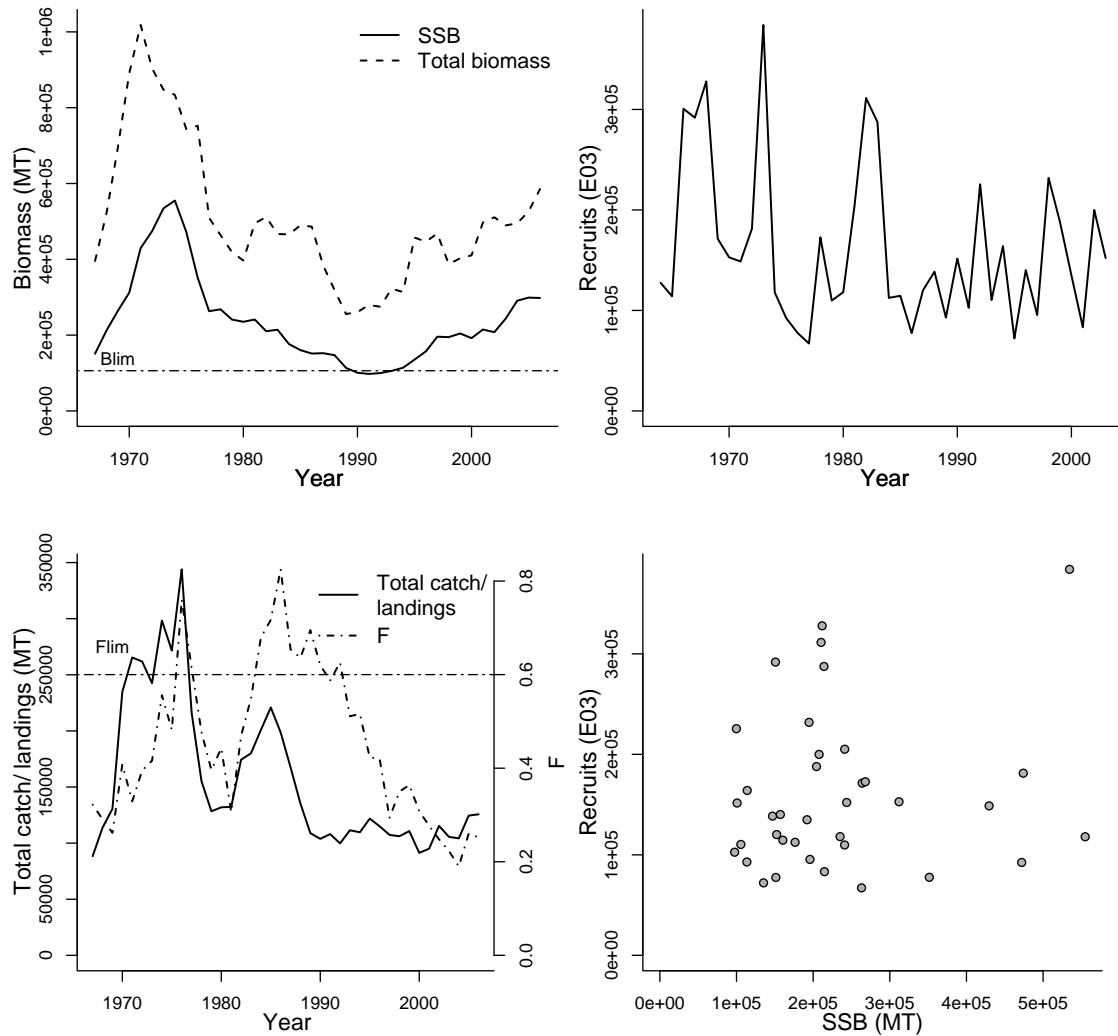
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1964-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder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

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

primary LME			secondary LME		tertiary LME
22 - North Sea			24 - Celtic-Biscay Shelf		na
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
A50-yr	4-5	yr	Blim-MT (SSB)	106000	MT
SSB-AGE-yr	4+	yr	Bpa-MT (SSB)	200000	MT
REC-AGE-yr	3	yr	Fpa-1/T (F)	0.4	1/T
TB-AGE-yr	3+	yr	F0.1-1/T	0.11	1/T
M-1/T	0.2	1/T	Fmax-1/T	0.22	1/T
F-AGE-yr-yr	3-6	yr-yr	Flim-1/T (F)	0.6	1/T
M			$SSB_{2006}/B_{lim}$	2.811	
L50-cm			$F_{2006}/F_{lim}$	0.420	
MORATOR-yr-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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/394>

Area ID: multinational-ICES-IV

General assessment details.

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

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

	primary LME	secondary LME	tertiary LME
	22 - North Sea	na	na

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

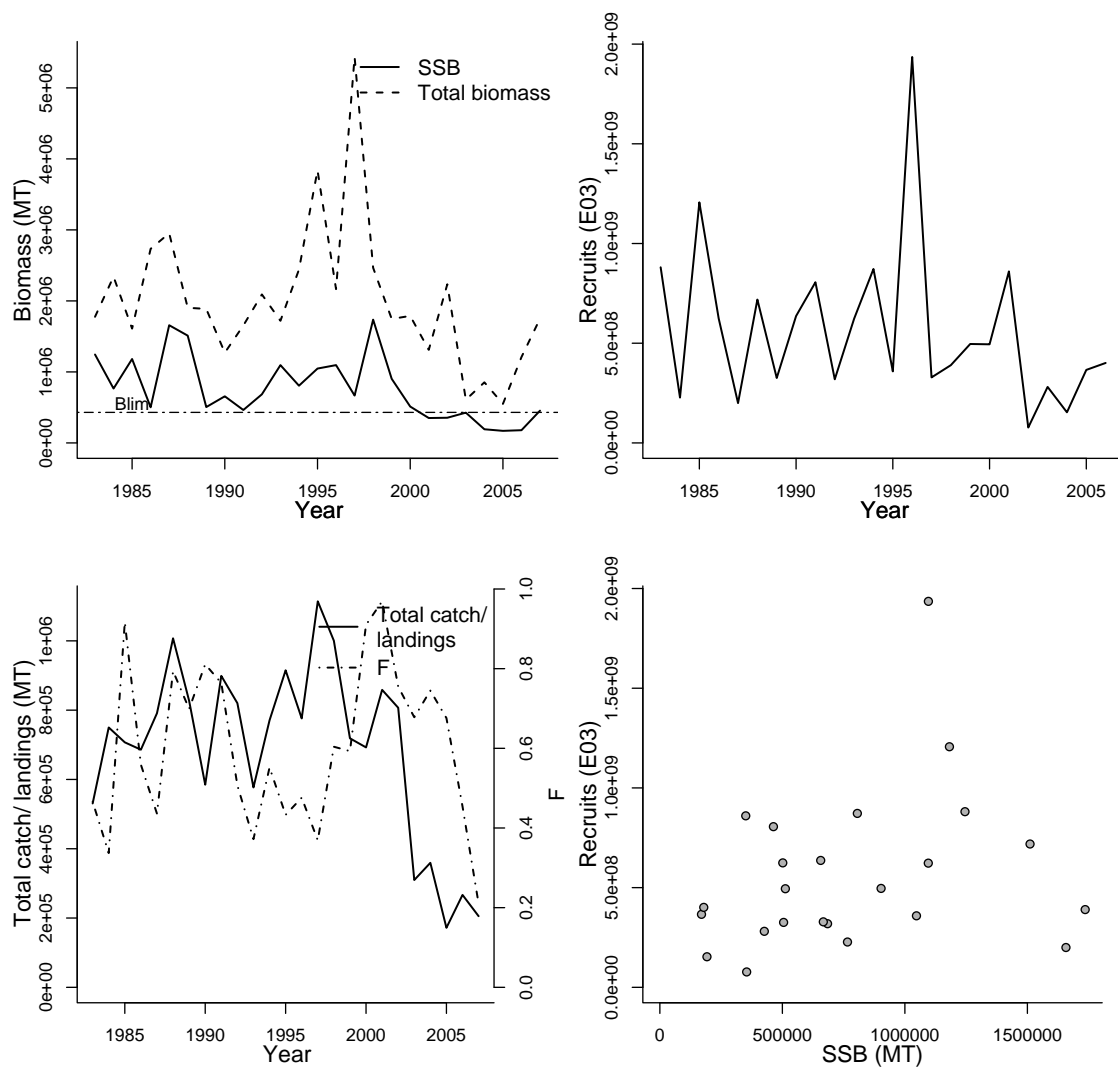
  

Reference points		
Parameter	Value	Units
Blim-MT (SSB)	430000	MT
Bpa-MT (SSB)	600000	MT
$SSB_{2007}/B_{lim}$	1.057	



**Time series minima and maxima**

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



# Assessment of North Sea common european sole (*Solea vulgaris*)

Assessment ID:WGNSSK-SOLENS-1956-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/395>

Area ID: multinational-ICES-IV

General assessment details.

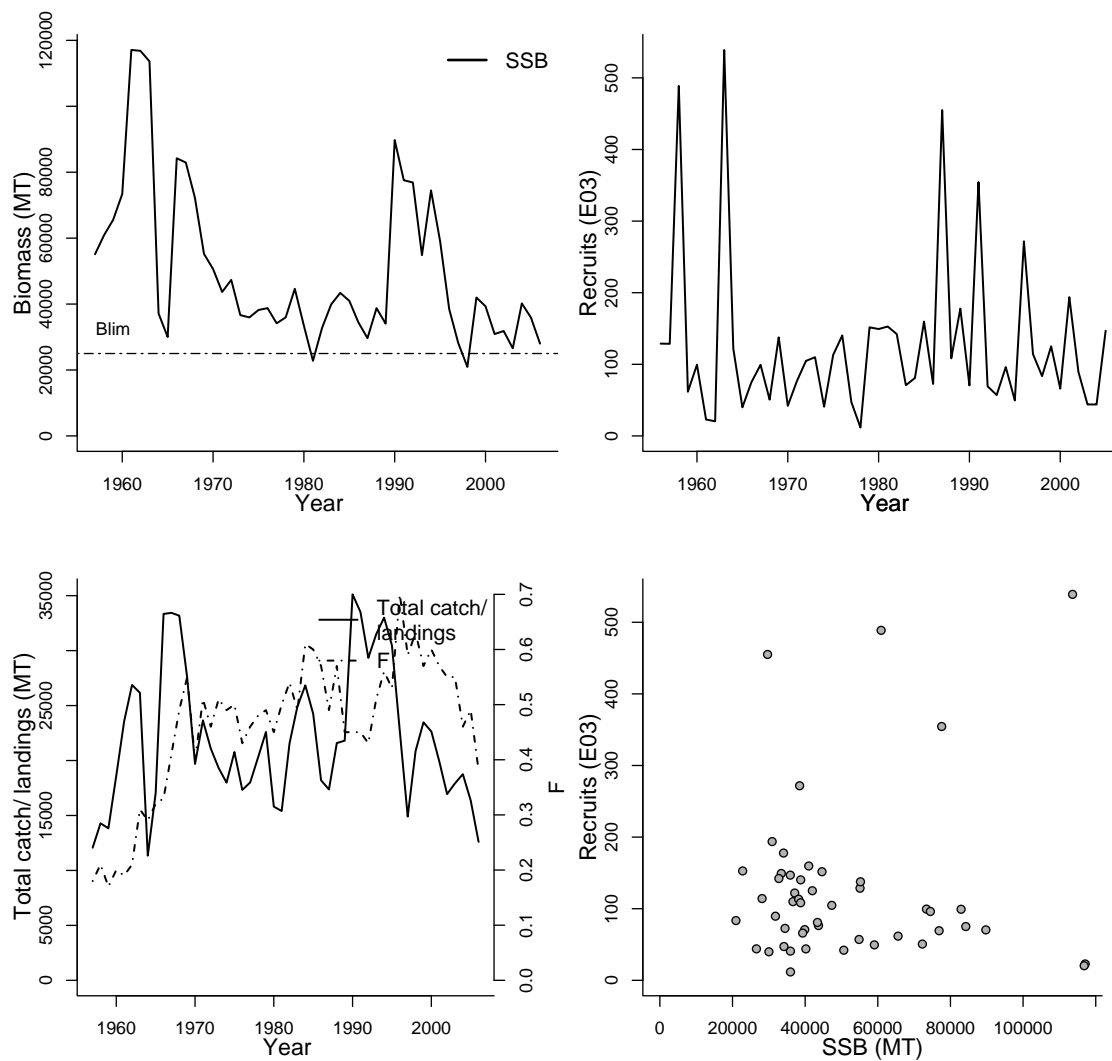
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1956-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder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

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

			primary LME	secondary LME	tertiary LME
			22 - North Sea	na	na
Parameter	Value	Units	Reference points		
A50-yr	3	yr	Parameter	Value	Units
SSB-AGE-yr	3+	yr	Blim-MT (SSB)	25000	MT
REC-AGE-yr	1	yr	Bpa-MT (SSB)	35000	MT
M-1/T	0.1	1/T	Fpa-1/T (F)	0.4	1/T
F-AGE-yr-yr	2-6	yr-yr	F0.1-1/T	0.119	1/T
TB-AGE-yr	1+	yr	Fmax-1/T	0.51	1/T
M			$SSB_{2006}/B_{lim}$	1.120	
L50-cm					
MORATOR-yr-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	11.727	0.17		11342
Time series maximum	117094	538.987	0.7		35120
Units	MT	E03	1/T		MT



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

Assessment ID: WGNSSK-SOLEVIId-1981-2006-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/396>

Area ID: multinational-ICES-VIIId

General assessment details.

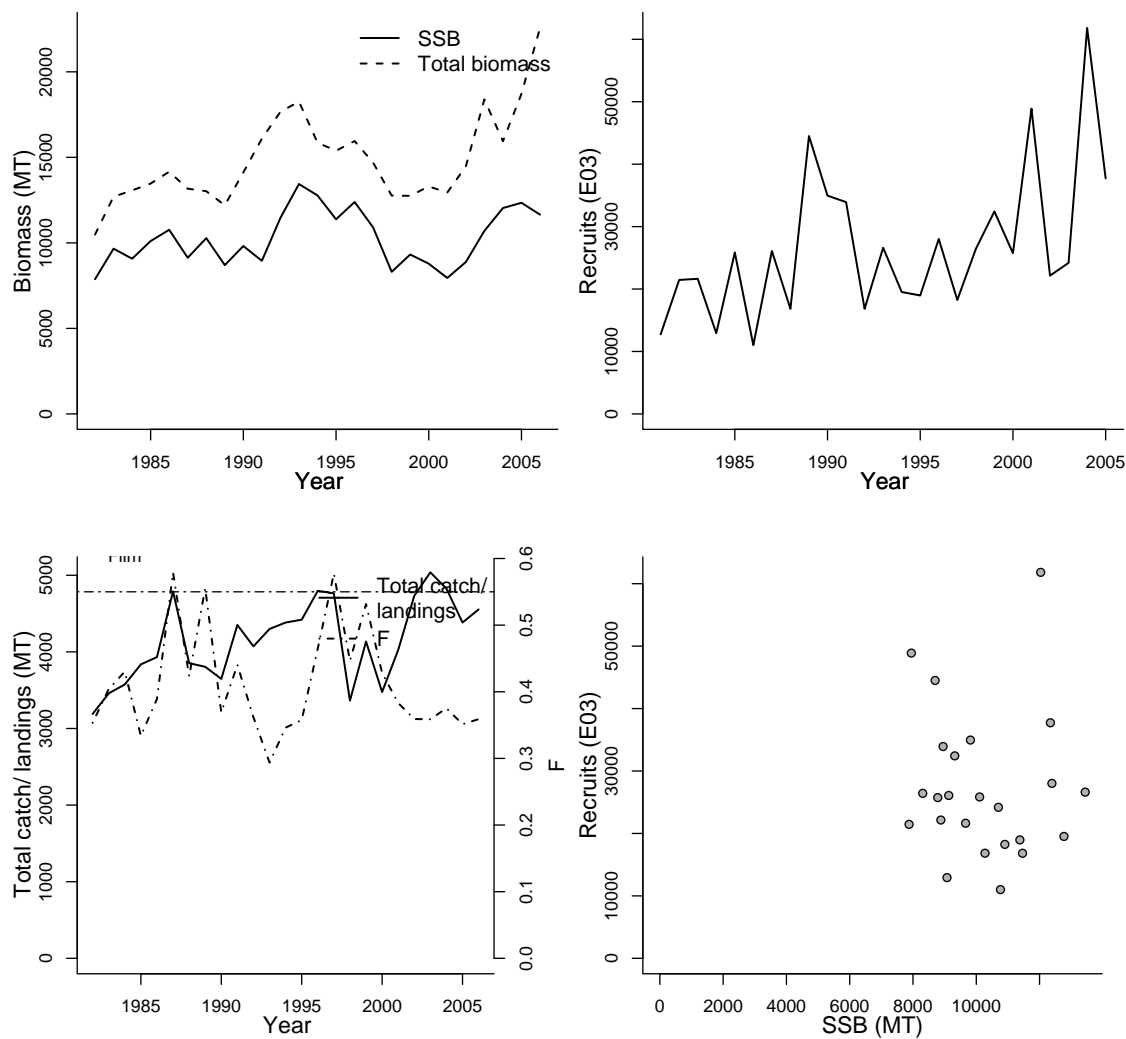
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1981-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder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

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

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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/397>

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

General assessment details.

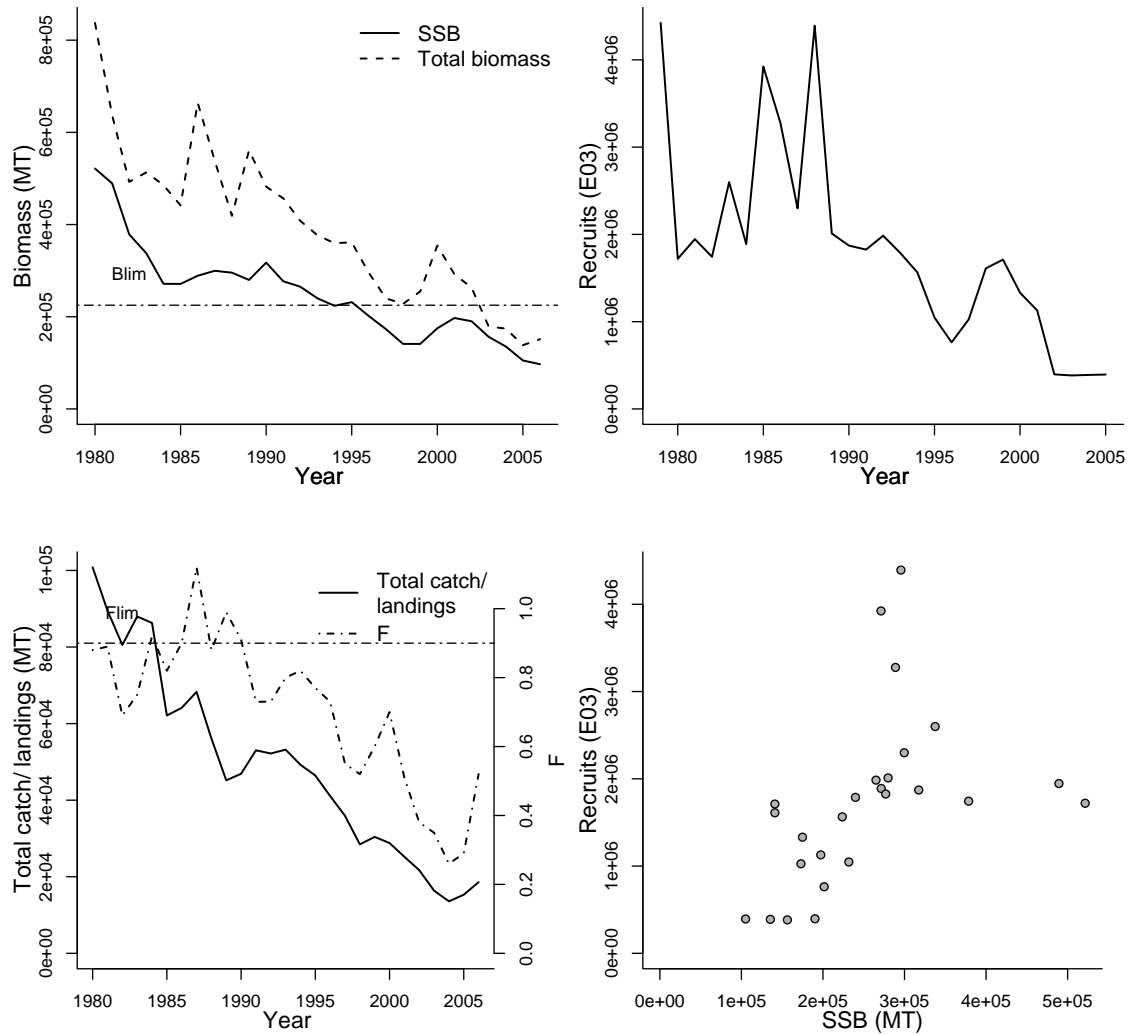
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1979-2006
Document	ICES-WGNSSK-2007.pdf (pdf in database)
Recorder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

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

primary LME			secondary LME			tertiary LME		
22 - North Sea			24 - Celtic-Biscay Shelf			na		
Parameter	Value	Units	Reference points					
			Parameter	Value	Units			
A50-yr	1	yr						
SSB-AGE-yr	1+	yr	Blim-MT (SSB)	225000	MT			
REC-AGE-yr	1	yr	Bpa-MT (SSB)	315000	MT			
TB-AGE-yr	1+	yr	Fpa-1/T (F)	0.65	1/T			
M-1/T	Age specific	1/T	F0.1-1/T	0.1	1/T			
F-AGE-yr-yr	2-6	yr-yr	Fmax-1/T	0.19	1/T			
M			Flim-1/T (F)	0.9	1/T			
L50-cm			$SSB_{2006}/B_{lim}$	0.431				
MORATOR-yr-yr			$F_{2006}/F_{lim}$	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



# 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.

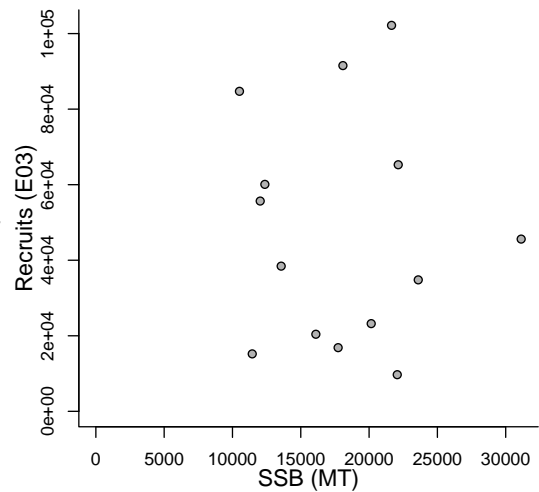
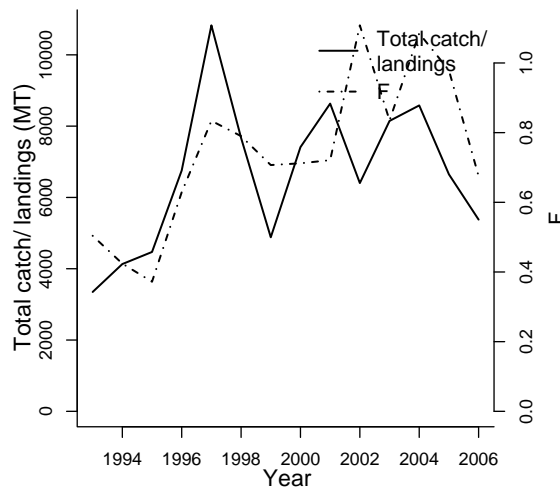
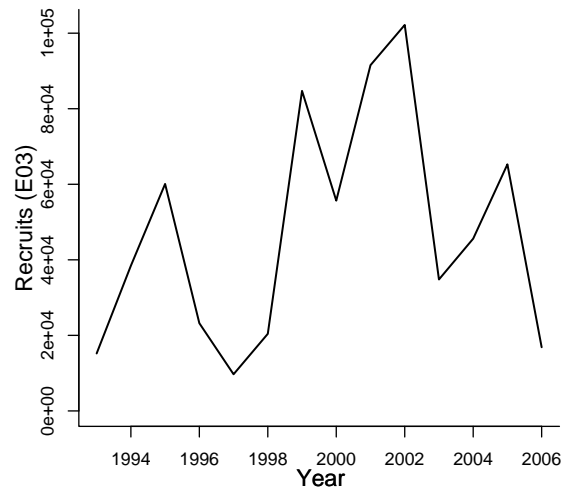
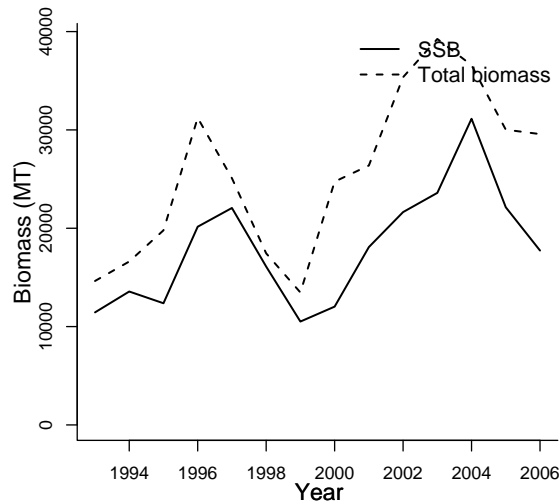
	primary LME	secondary LME	tertiary LME
	24 - Celtic-Biscay Shelf	na	na
Parameter	Value	Units	
SSB-AGE-yr	2	yr	
REC-AGE-yr	0	yr	
F-AGE-yr-yr	2 to 5	yr-yr	
TB-AGE-yr	0+	yr	
A50-yr	2	yr	
M-1/T	0.2	1/T	
M			
L50-cm			
MORATOR-yr-yr			

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	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

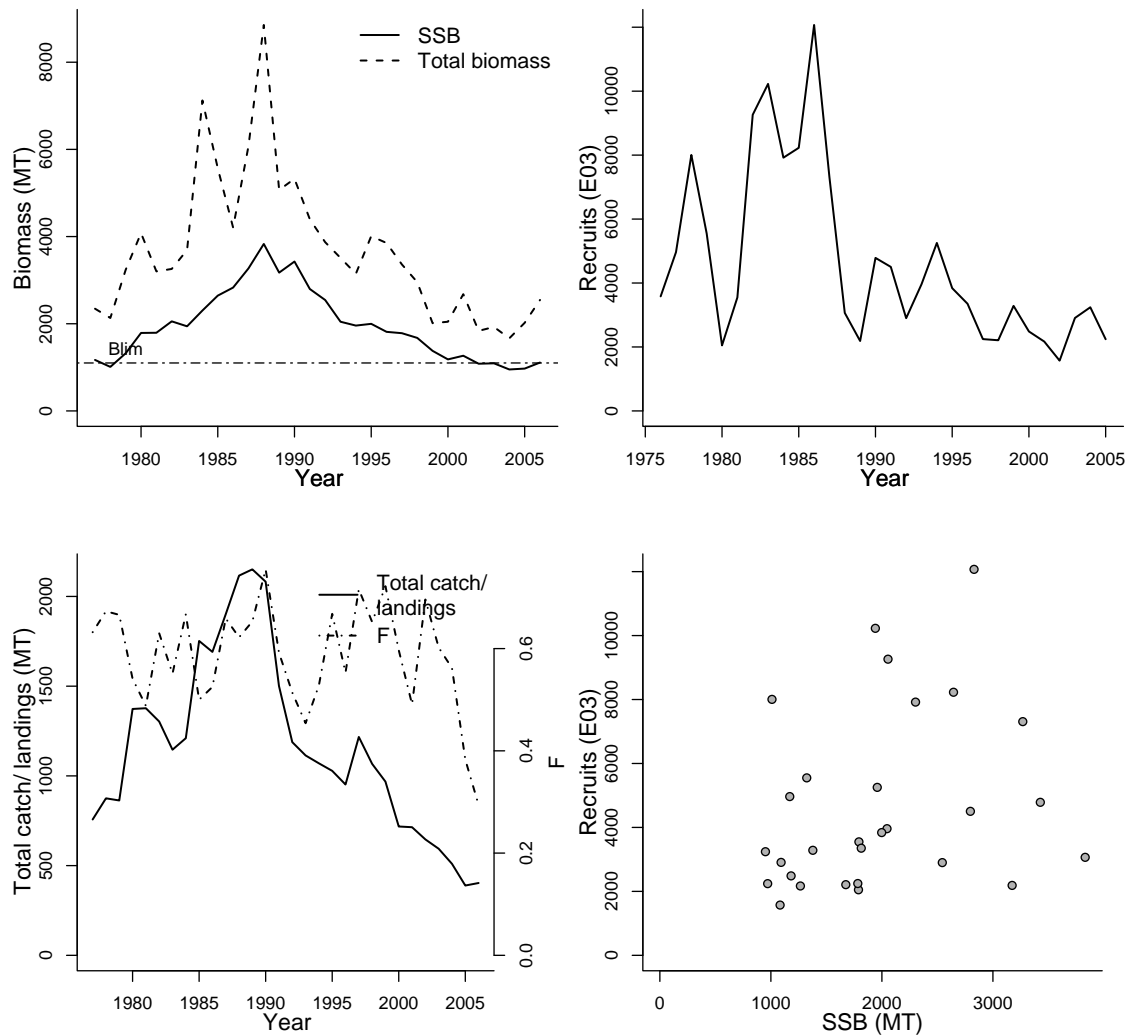
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	3 to 6	yr-yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.12	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Blim-MT (SSB)	1100	MT
Bpa-MT (SSB)	1800	MT
$SSB_{2006}/B_{lim}$	1.009	

**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.

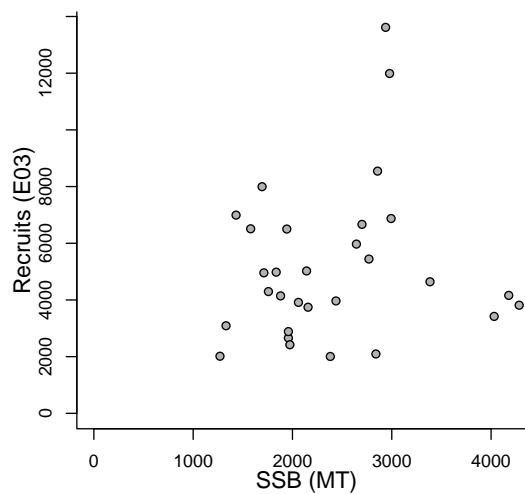
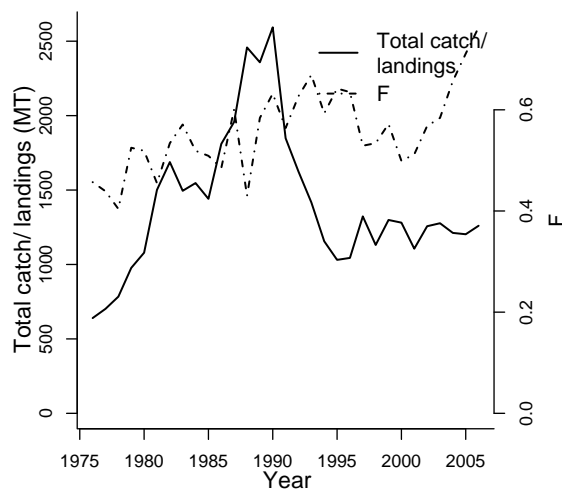
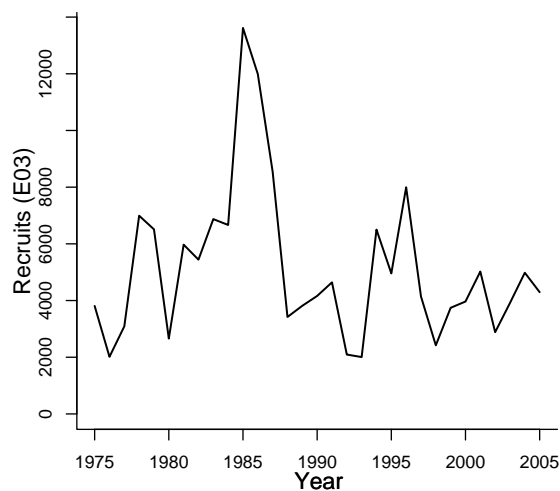
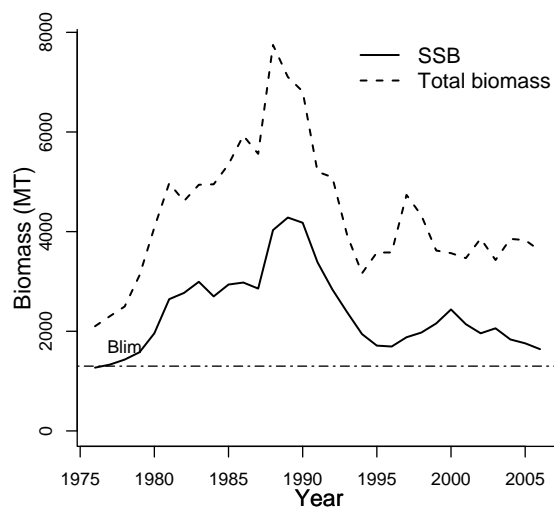
Detail	Value
Management body	ICES
Assessment group	Working Group on the Assessment of Southern Shelf Demersal Stocks
Assessment authors	Anon
Assessment method	Extended Survivor Analysis
Publication year	2007
Timeseries span	1975-2006
Document	ICES-WGSSDS-2007.pdf (pdf in database)
Recorder	JENNINGS
Date entered	2008-11-23
Date last loaded	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	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	Blim-MT (SSB)	1300	MT	
M-1/T	0.12	1/T	Bpa-MT (SSB)	2500	MT	
M			$SSB_{2006}/B_{lim}$	1.262		
L50-cm						
MORATOR-yr-yr						

**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	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
24 - Celtic-Biscay Shelf		na	na

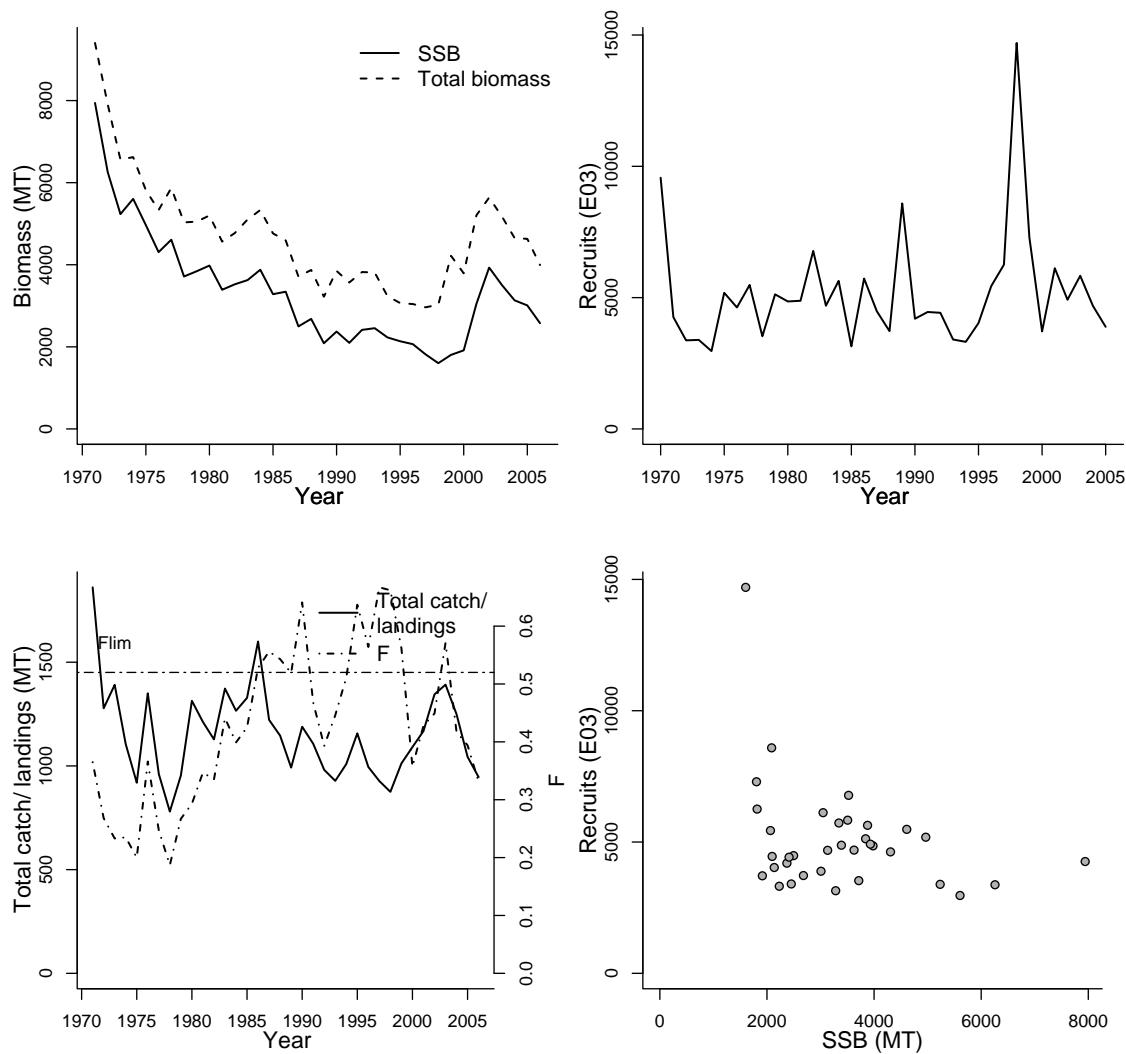
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	1	yr
F-AGE-yr-yr	4 to 8	yr-yr
TB-AGE-yr	1+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.1	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Flim-1/T (F)	0.52	1/T
Fpa-1/T (F)	0.37	1/T
Bpa-MT (SSB)	2200	MT
$F_{2006}/F_{lim}$	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

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	2009-06-01
QA/QC complete	YES
Date approved	2009-05-29

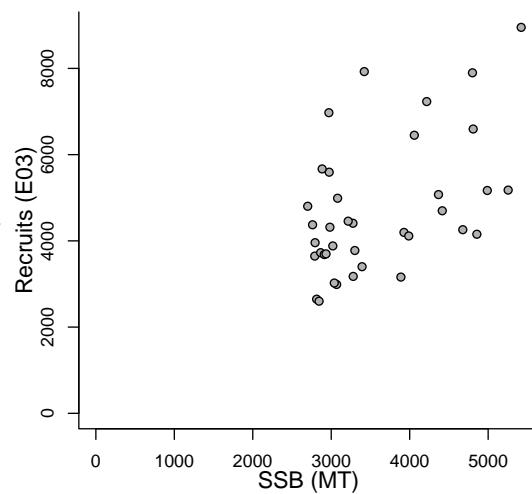
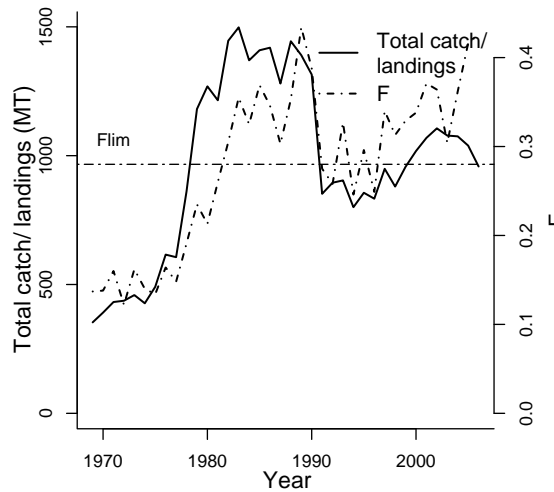
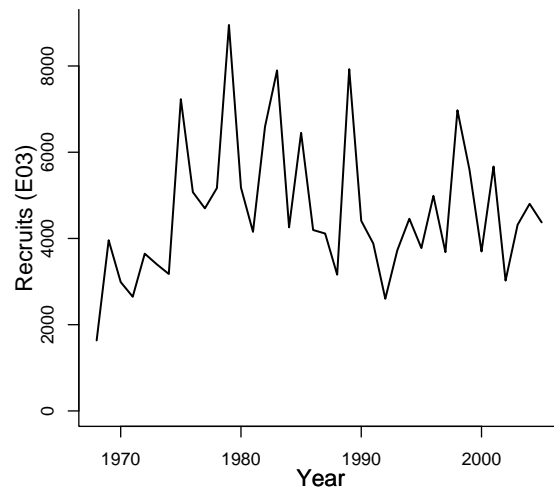
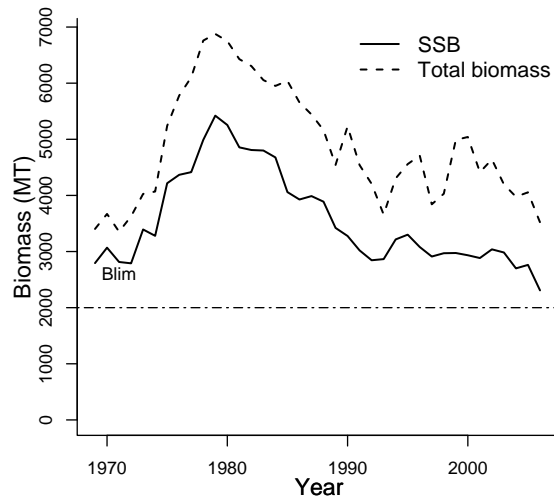
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

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



**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	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
24 - Celtic-Biscay Shelf		na	na

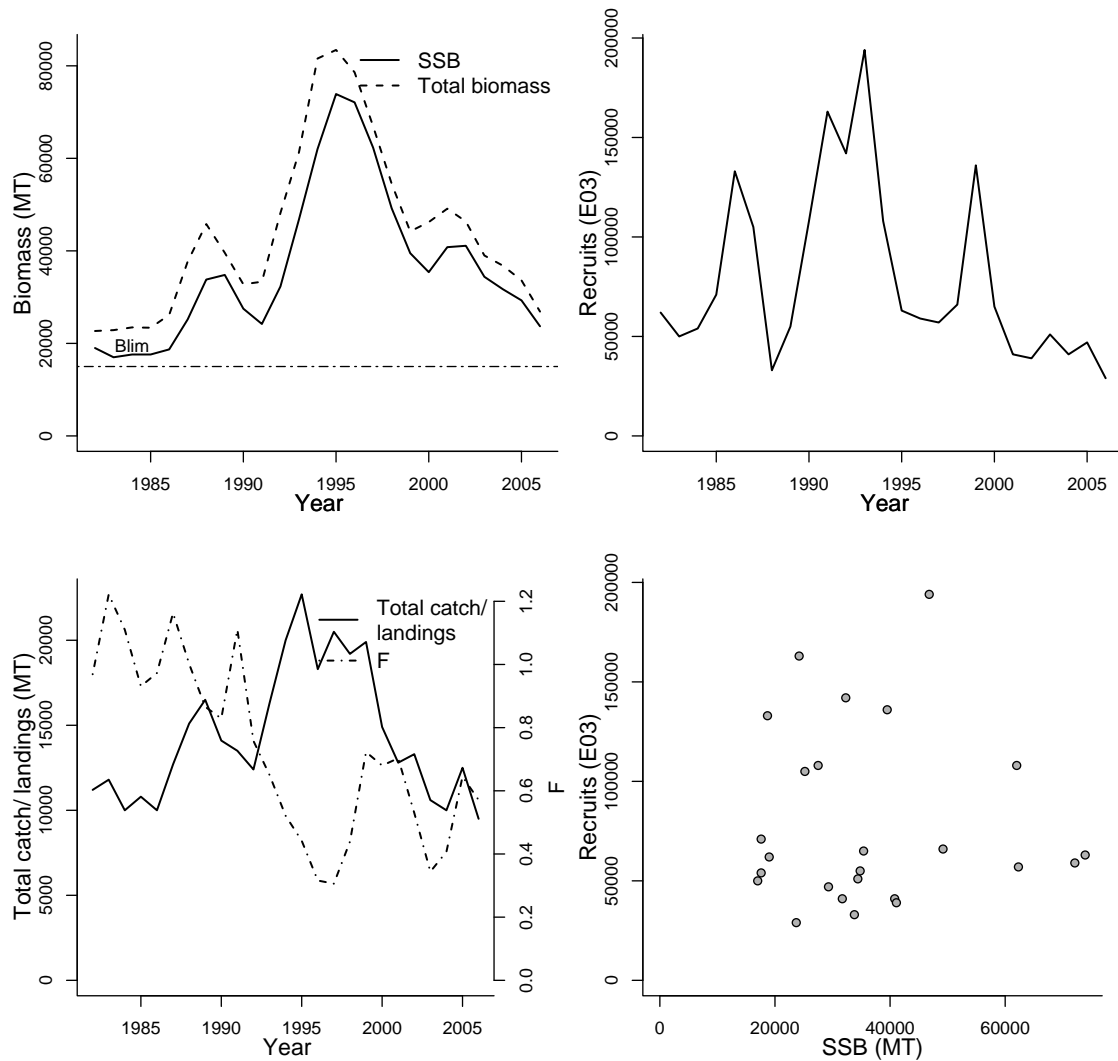
Parameter	Value	Units
SSB-AGE-yr	AVAILABLE	yr
REC-AGE-yr	0	yr
F-AGE-yr-yr	2 to 5	yr-yr
TB-AGE-yr	0+	yr
A50-yr	AVAILABLE	yr
M-1/T	0.2	1/T
M		
L50-cm		
MORATOR-yr-yr		

Reference points		
Parameter	Value	Units
Blim-MT (SSB)	15000	MT
Bpa-MT (SSB)	21000	MT
$SSB_{2006}/B_{lim}$	1.580	

**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





**MAP KEY:**

- Large Marine Ecosystems  
Watershed Bounds  
Political Borders

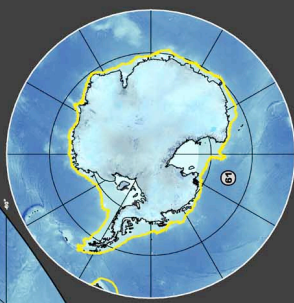


Data Sources:  
 Bathymetry (2-minute) : Smith and Sandwell, 1997  
 Bathymetry (5-minute) : NAVOCEANO, DSDMS  
 Watersheds (HYDRO 1K) : USGS First Data Center  
 Fernestral Image : ESRI



**LARGE MARINE ECOSYSTEMS** are areas of the ocean characterized by distinct bathymetry, hydrography, productivity, and trophic interactions. They annually produce 95 percent of the world's fish catch. They are national and regional focal areas of a global effort to reduce the degradation of linked watersheds, marine resources, and coastal environments from pollution, habitat loss, and over-fishing.

**For More Information Visit:** [www.edc.uri.edu/lme](http://www.edc.uri.edu/lme)



SOUTH POLAR REGION