

Dear Colleague,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 27 of your assessments, and now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please follow the steps below to ensure that your assessments have been dutifully represented:

QA/QC steps

For each assessment:

1. Ensure that the General assessment details are correct.
2. Ensure that the units for all Biometrics and Time Series shown are correct. To aid in this, we have included the minimum, maximum, first year, and last year of the spawning stock biomass, recruitment, fishing mortality, total biomass, and catch (where provided).
3. If there are blank values in the Biometrics table, please include these in your response (see below), where they are available. Please note that in the Biometrics table, the following abbreviations are used:
 - SSB-AGE-yr = Ages for which the spawning stock biomass is defined
 - REC-AGE = Age at recruitment
 - F-AGE-yr = Ages for which the fishing mortality is defined
 - TB-AGE-yr = Ages for which the total biomass is defined
 - M = Natural mortality
 - A50-yr = The age at 50% maturity
 - L50-cm = The length at 50% maturity
 - MORATOR-yr-yr = Moratorium years
 - LME = Large Marine Ecosystem
4. To ensure that the recruitment time series has been offset by the age at recruitment so that yearclass matches up with spawner biomass, please make sure that the difference between the last year of the recruitment and last year of the SSB time series is equal to the age at recruitment supplied (unless there is another reason, e.g. estimates unavailable).
5. Provide Large Marine Ecosystem (LME) designation(s) for your stock (unless it is a high seas stock). Please enter a primary, secondary and tertiary LME (if they exist) in the issue you submit (see below). A map of the LMEs is provided on the last page of this document.

QA/QC submission process

If you (or someone else) submitted the assessments via the RAM legacy site, please log into : <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting> and locate the issue(s) associated with your spreadsheet submission(s). Once you locate your assessment, open the associated issue and choose "Add response". At the top of this response write:

QAQC: Assessment ID (this ID is located at the top of each assessment in the current document)

If you did not submit via the RAM Legacy site, please go to the url above and click "Submit a new issue" with the title: *QAQC: Assessment ID* (located at the top of each assessment in this pdf).

If you found no issues with the QA/QC document, please type:

"QA/QC correct". If you have found issues, please update the assessment spreadsheet accordingly or write the details of corrections to be made in the dialogue box. Once we have received and processed your response, the assessment will be flagged as quality controlled and the data it contains will be used for analyses.

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Assessment of West end of Chatham Rise black oreo (*Allocyttus niger*)

Assessment

ID:NZMFishDEEPWATER-BLACKKOREOWECCR-1973-2007-JENSEN
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/220>

Area ID: New Zealand-MFish-WECC

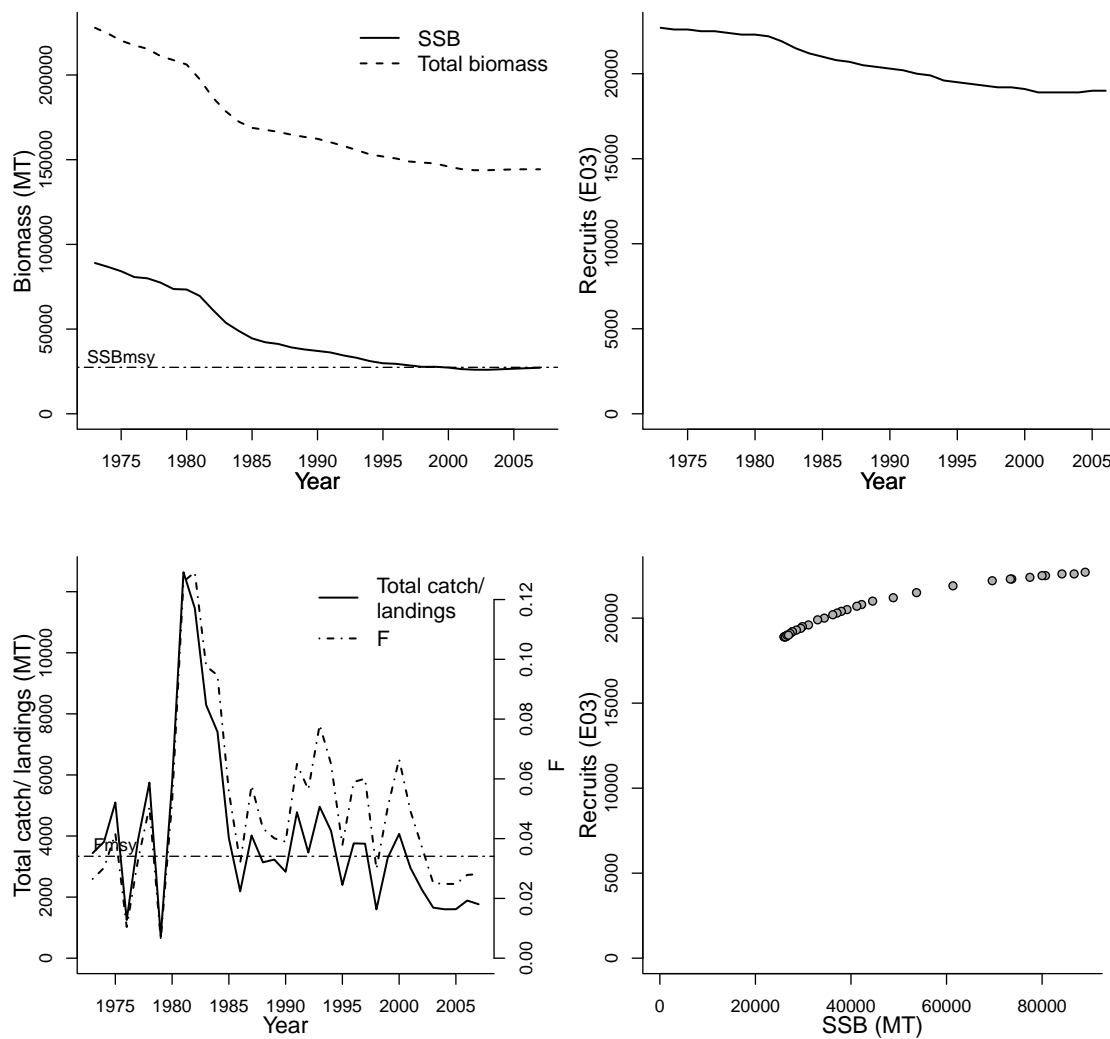
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1973-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	1	yr	SSB0-MT (SSB)	88923	MT
TB-AGE-yr	1	yr	MSY-MT (TB)	1947	MT
A50-yr	38	yr	SSBmsy-MT (SSB)	27427	MT
M-1/yr	0.044	1/yr	Fmsy-1/yr (F)	0.0341	1/yr
SSB-AGE-yr			BH-h-dimless	0.75	dimless
F-AGE-yr			F_{2007}/F_{msy}	0.825	
M			SSB_{2007}/SSB_{msy}	0.991	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1973	1973	1973	1973
Maximum year	2007	2006	2007	2007	2007
Time series minimum	25981.7	18900	0.006334863	143796	709.97
Time series maximum	89015.2	22700	0.1291476	227865	12638.29
Units	MT	E03	1/yr	MT	MT



Assessment of Chatham Rise smooth oreo (*Pseudocyttus maculatus*)

Assessment

ID:NZMFishDEEPWATER-SMOOTHOREOCR-1979-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/423>

Area ID: New Zealand-MFish-CR

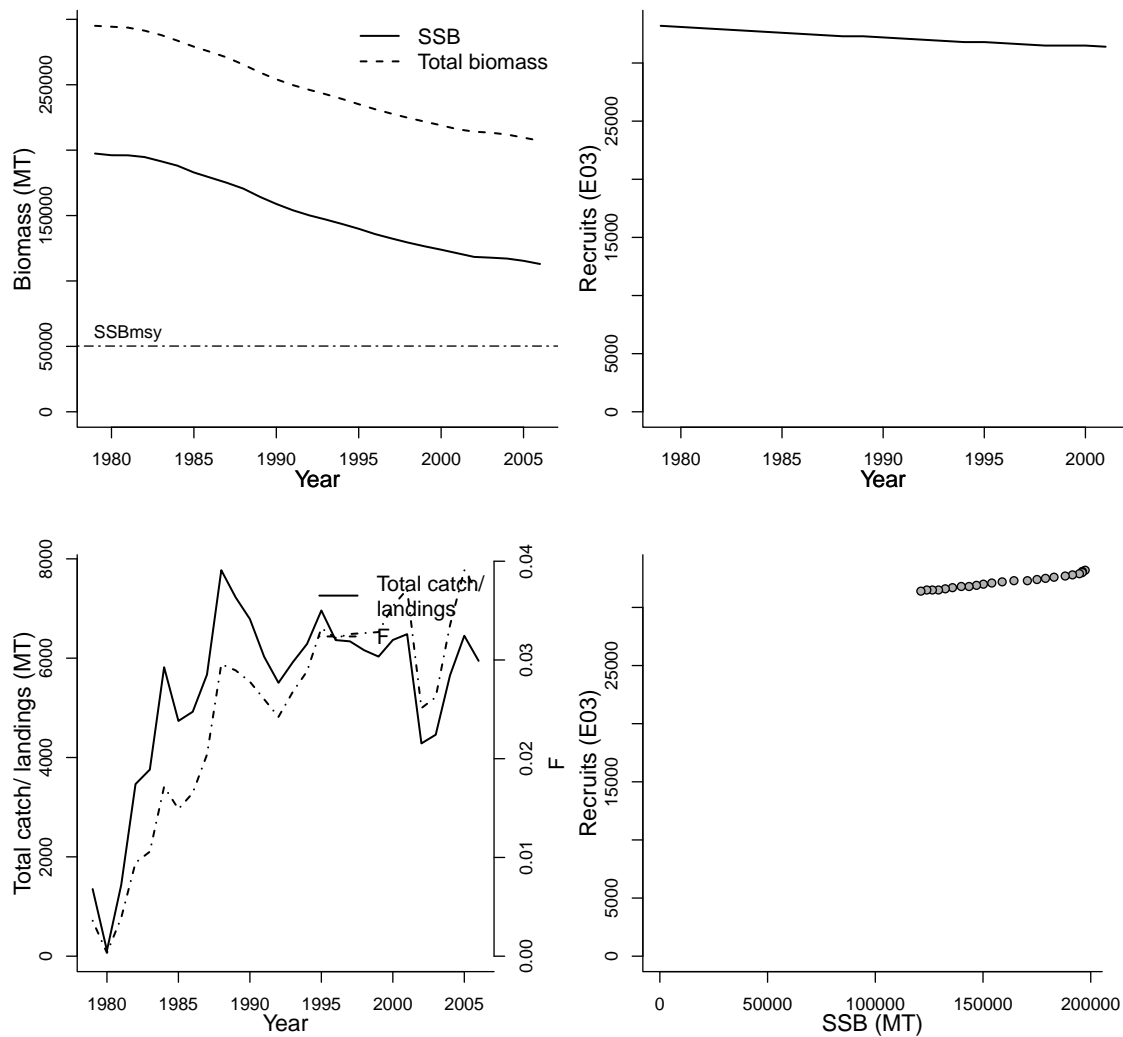
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1979-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-11-05
Date last loaded	2010-02-01
QA/QC complete	NO
Date approved	

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

			primary LME	secondary LME	tertiary LME
			46 - New Zealand Shelf	na	na
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	5	yr	BH-h-dimless	0.75	dimless
TB-AGE-yr	5	yr	Fmsy-1/yr (F)	0.0955	1/yr
A50-yr	30.5	yr	MSY-MT (TB)	5132.855	MT
M-1/yr	0.063	1/yr	SSBmsy-MT (SSB)	50242.75375	MT
SSB-AGE-yr			SSB0-MT (SSB)	197417.5	MT
F-AGE-yr			F_{2006}/F_{msy}	0.385	
M			SSB_{2006}/SSB_{msy}	2.249	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1979	1979	1979	1979	1979
Maximum year	2006	2001	2006	2006	2006
Time series minimum	112982.4	31400	0.0003339579	207166	114
Time series maximum	197417.5	33200	0.03908979	295065	7771
Units	MT	E03	1/yr	MT	MT



Assessment of West end of Chatham Rise smooth oreo (*Pseudocyttus maculatus*)

Assessment

ID:NZMFishDEEPWATER-SMOOTHOREOWECCR-1973-2004-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/221>

Area ID: New Zealand-MFish-WECC

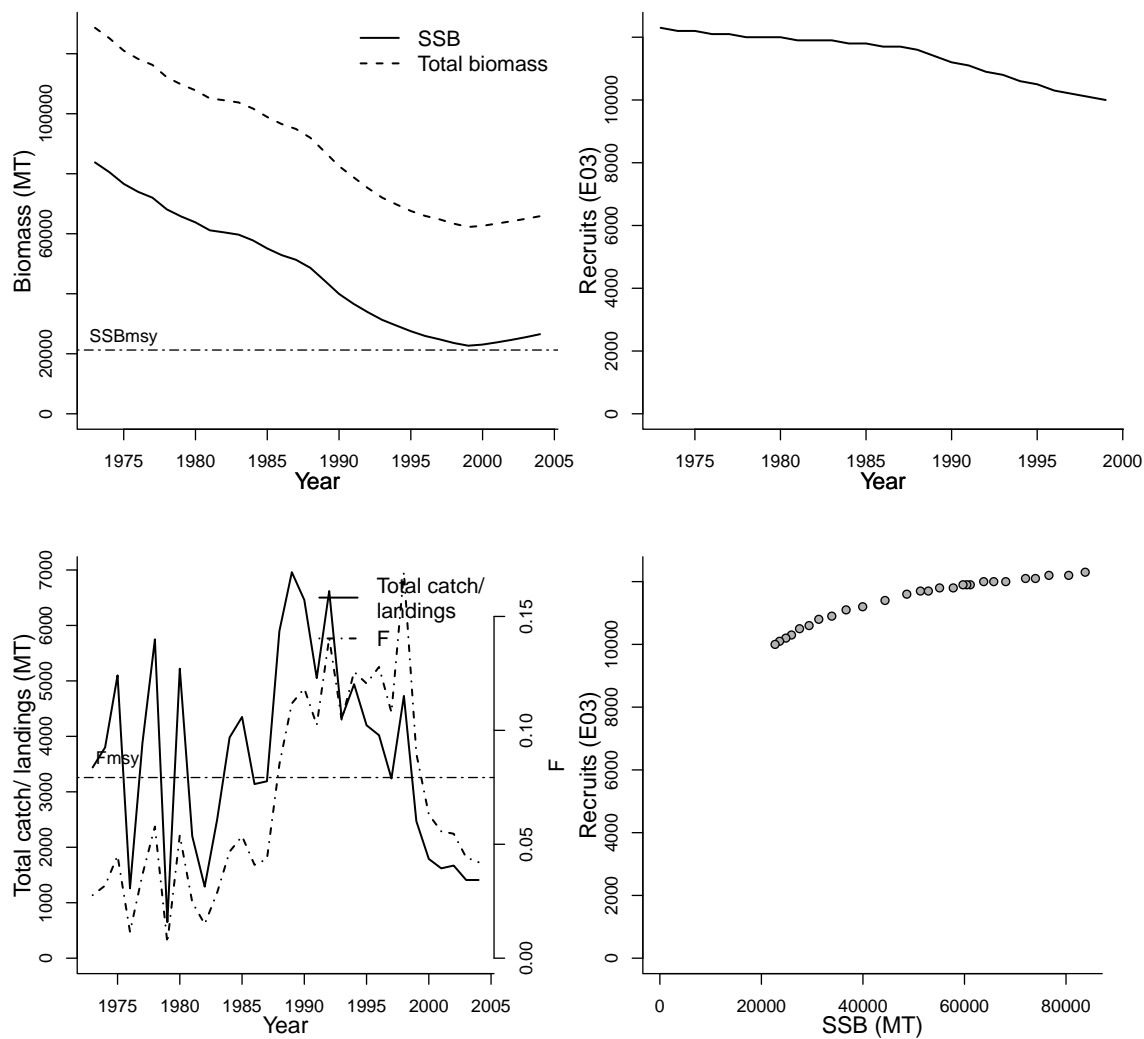
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1973-2004
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

			primary LME	secondary LME	tertiary LME
			46 - New Zealand Shelf	na	na
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	5	yr	F _{msy} -1/yr (F)	0.0793	1/yr
TB-AGE-yr	5	yr	MSY-MT (TB)	2218.0808	MT
A50-yr	25.5	yr	SSB _{msy} -MT (SSB)	21242.3892	MT
M-1/yr	0.063	1/yr	BH-h-dimless	0.75	dimless
SSB-AGE-yr			SSB0-MT (SSB)	85310.8	MT
F-AGE-yr			F_{2004}/F_{msy}	0.531	
M			SSB_{2004}/SSB_{msy}	1.249	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1973	1973	1973	1973
Maximum year	2004	1999	2004	2004	2004
Time series minimum	22693.3	10000	0.006769455	62262	650
Time series maximum	83773.4	12300	0.1694174	128639	6960
Units	MT	E03	1/yr	MT	MT



Assessment of Eastern New Zealand hoki (*Macruronus novaezelandiae*)

Assessment ID: NZMFishHOKIWG-HOKIENZ-1972-2007-FRANCIS
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/360>

Area ID: New Zealand-MFish-ENZ

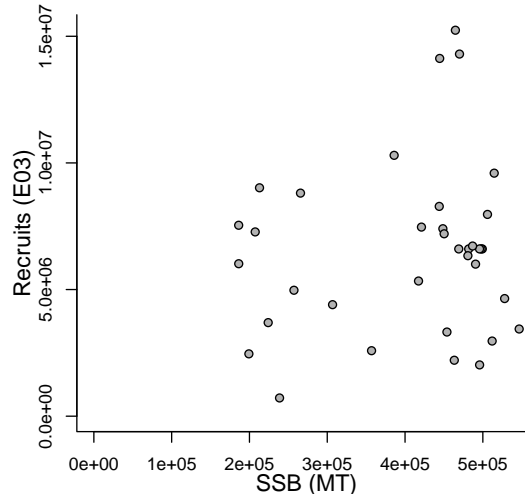
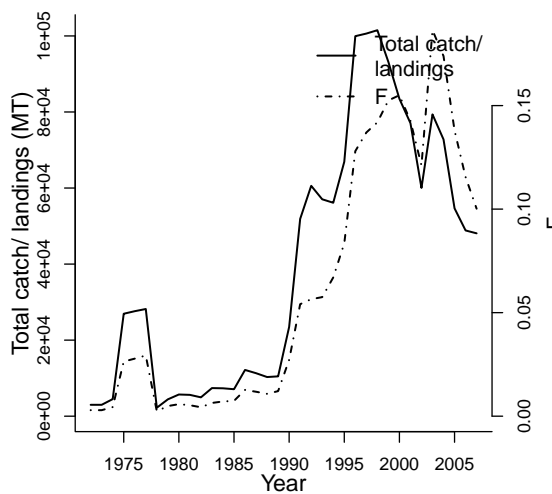
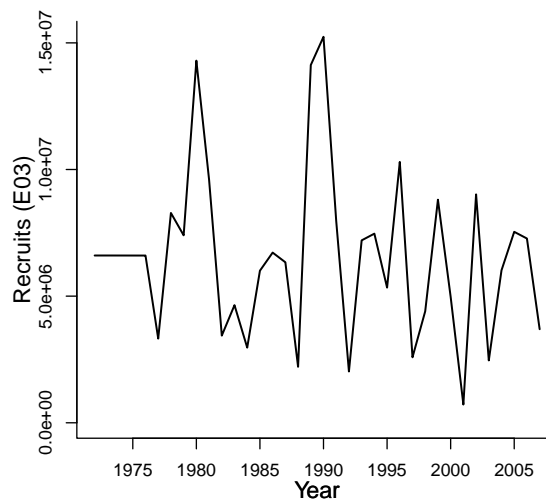
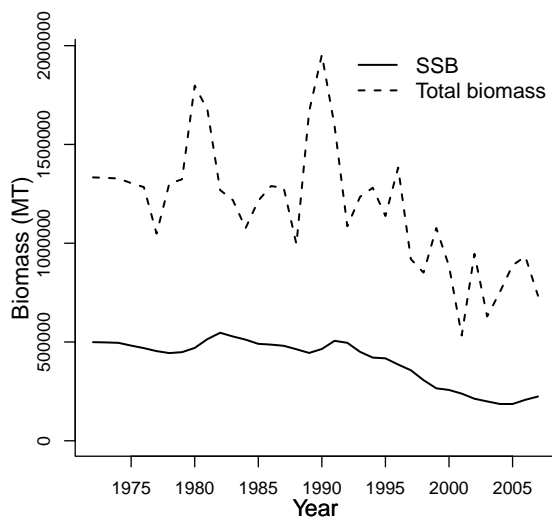
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Hoki Working Group
Assessment authors	R.I.C.C. Francis
Assessment method	CASAL
Publication year	2008
Timeseries span	1972-2007
Document	FAR0804hok07.pdf (pdf in database)
Recorder	FRANCIS
Date entered	2008-09-18
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units			
SSB-AGE-yr		yr			
REC-AGE-yr	2	yr			
F-AGE-yr-yr		yr-yr	Reference points		
TB-AGE-yr	1	yr	Parameter	Value	Units
A50-yr		yr	BH-h-dimless	0.75	dimless
M-1/yr		1/yr			
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2007	2007	2007	2007	2007
Time series minimum	186148	720110	0.0024	532901	2228
Time series maximum	546701	15239500	0.1864	1953697	101504
Units	MT	E03	none	MT	MT



Assessment of Western New Zealand hoki (*Macruronus novaezelandiae*)

Assessment ID: NZMFishHOKIWG-HOKIWNZ-1972-2007-FRANCIS
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/359>

Area ID: New Zealand-MFish-WNZ

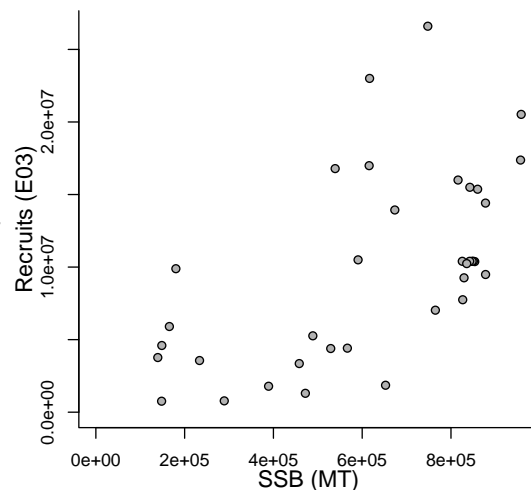
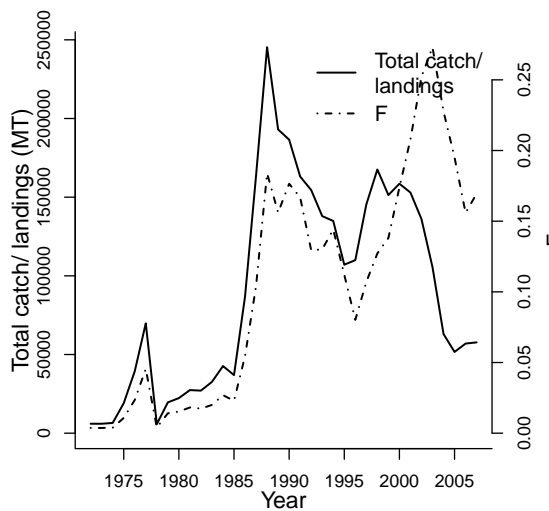
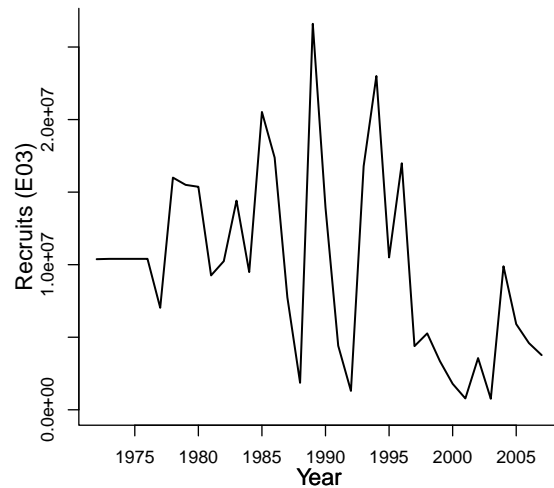
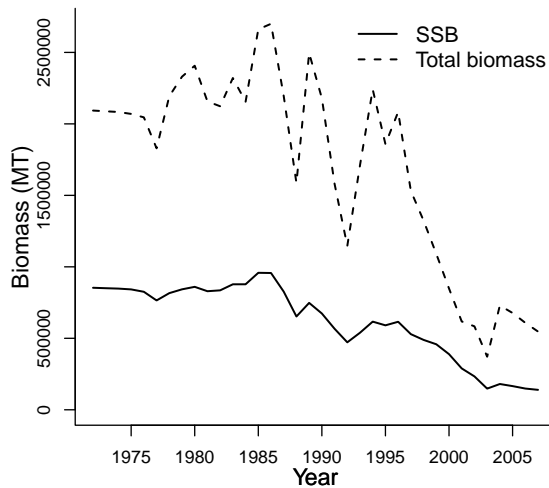
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Hoki Working Group
Assessment authors	R.I.C.C. Francis
Assessment method	CASAL
Publication year	2008
Timeseries span	1972-2007
Document	FAR0804hok07.pdf (pdf in database)
Recorder	FRANCIS
Date entered	2008-09-18
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
SSB-AGE-yr		yr	Parameter	Value	Units
REC-AGE-yr	2	yr			
F-AGE-yr-yr		yr-yr	BH-h-dimless	0.75	dimless
TB-AGE-yr	1	yr			
A50-yr		yr			
M-1/yr		1/yr			
M					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2007	2007	2007	2007	2007
Time series minimum	139515	758594	0.0037	371333	5772
Time series maximum	958163	26599700	0.2731	2700076	245304
Units	MT	E03	none	MT	MT



Assessment of New Zealand Area 8 (Auckland and Central West) new zealand snapper (*Chrysophrys auratus*)

Assessment

ID:NZMFishINSHOREWG-NZSNAPNZ8-1931-2005-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/193>

Area ID: New Zealand-MFish-8

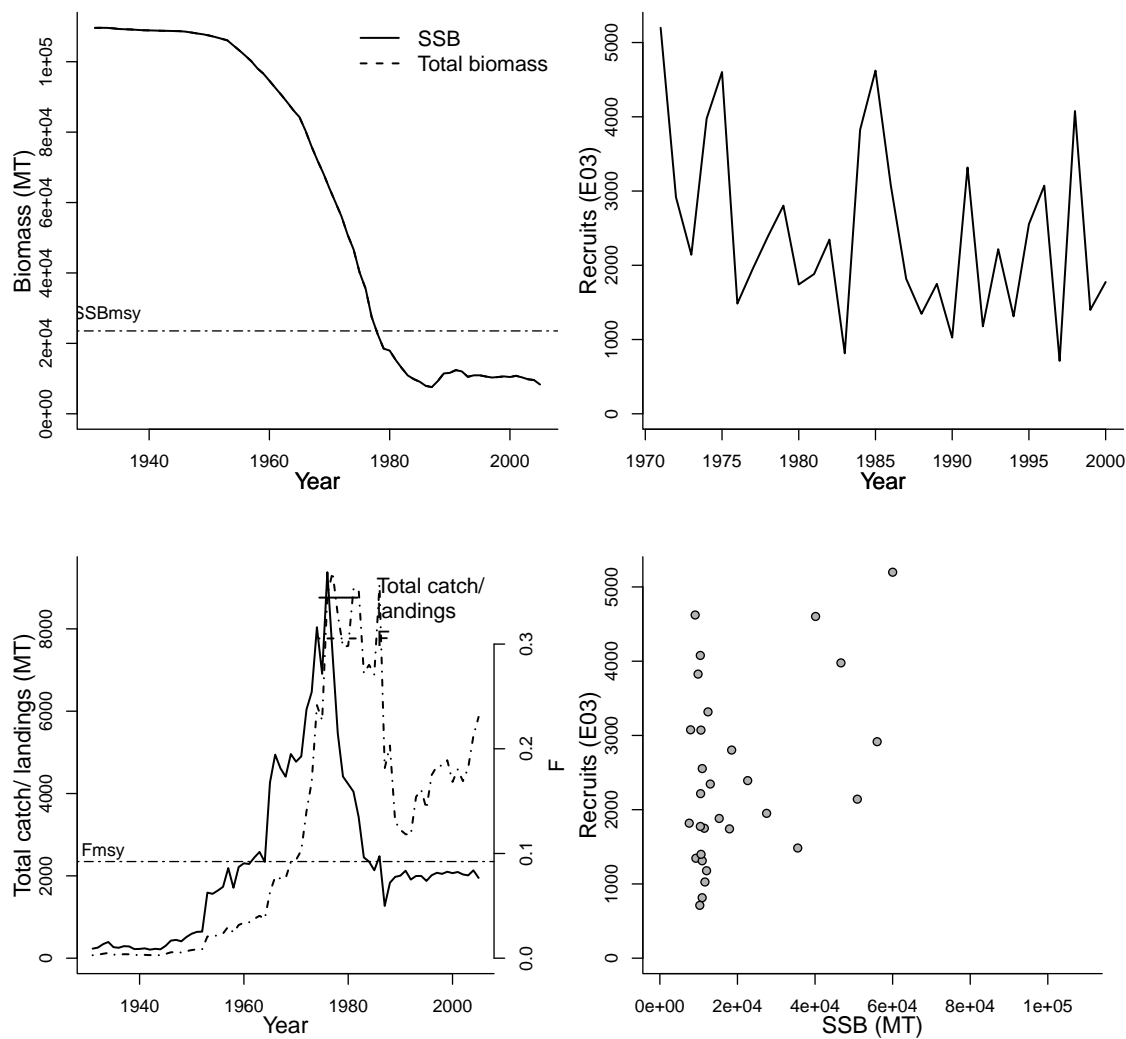
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Inshore Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1931-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-24
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

			primary LME	secondary LME	tertiary LME
			46 - New Zealand Shelf	na	na
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	3	yr	Fmsy-1/yr (F)	0.0923	1/yr
TB-AGE-yr	3	yr	MSY-MT (TB)	2284.7076	MT
A50-yr	3	yr	SSBmsy-MT (SSB)	23536.1148	MT
M-1/yr	0.0507649	1/yr	SSB0-MT (SSB)	120884	MT
SSB-AGE-yr			BH-h-dimless	1	dimless
F-AGE-yr			F_{2005}/F_{msy}	2.497	
M			SSB_{2005}/SSB_{msy}	0.353	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1931	1971	1931	1931	1931
Maximum year	2005	2000	2005	2005	2005
Time series minimum	7570.19	711.922	0.002787383	7570.19	207.95
Time series maximum	109631	5198.47	0.3686518	109631	9376.26
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas TRE 7 trevally (*Pseudocaranx dentex*)

Assessment

ID:NZMFishINSHOREWG-TREVALLYTRE7-1944-2005-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/189>

Area ID: New Zealand-MFish-TRE7

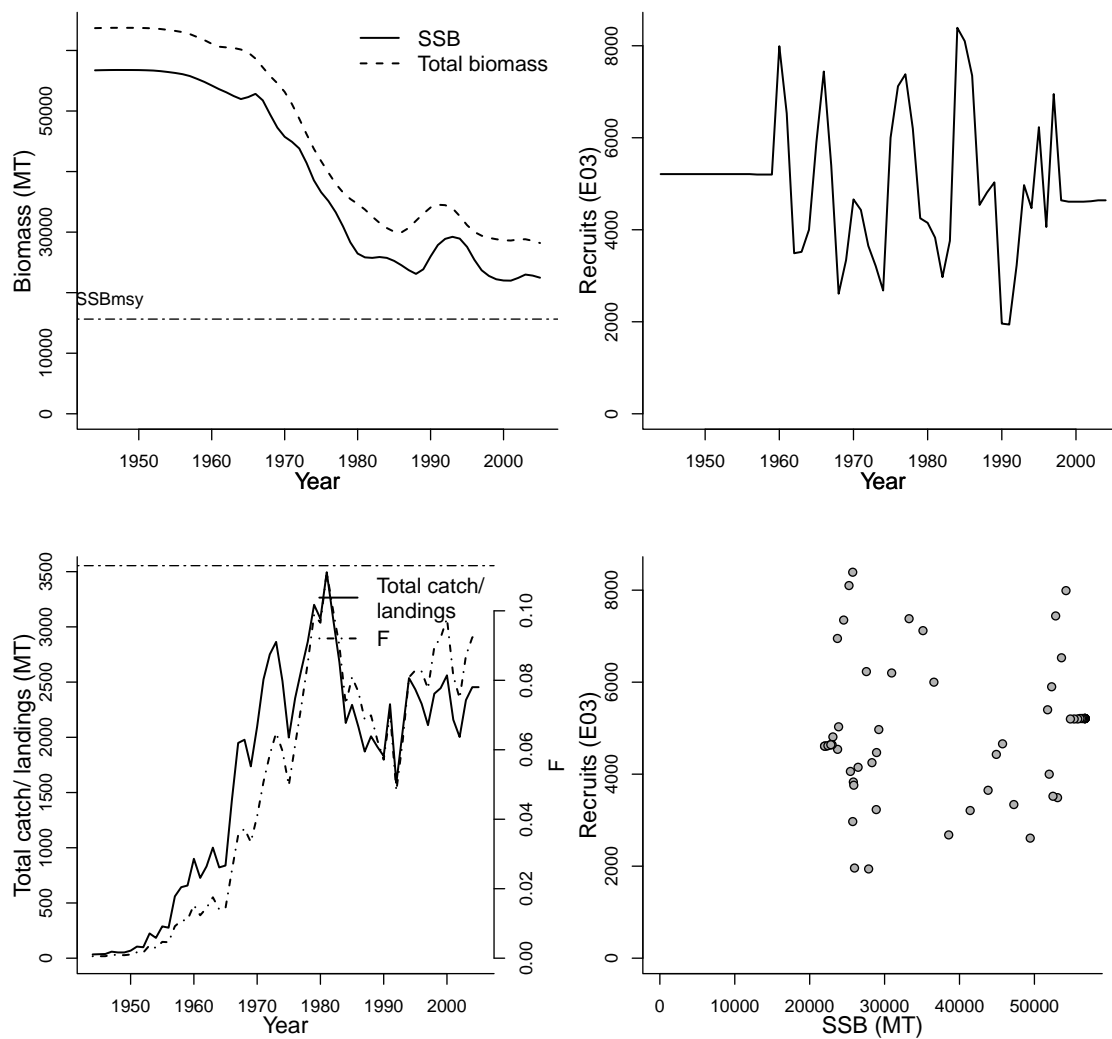
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Inshore Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1944-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	1	yr	Fmsy-1/yr (F)	0.113	1/yr
TB-AGE-yr	1	yr	MSY-MT (TB)	2170.41121	MT
A50-yr	5	yr	SSBmsy-MT (SSB)	15634.89433	MT
M-1/yr	0.1	1/yr	SSB0-MT (SSB)	56668.7	MT
SSB-AGE-yr			BH-h-dimless	0.75	dimless
F-AGE-yr			F_{2005}/F_{msy}	0.830	
M			SSB_{2005}/SSB_{msy}	1.437	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1944	1944	1944	1944	1944
Maximum year	2005	2004	2005	2005	2005
Time series minimum	21986.7	1940	0.0005609535	28199.1	34
Time series maximum	56775.6	8390	0.1111157	63741.4	3495
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Area CRA1 red rock lobster (*Jasus edwardsii*)

Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA1-1945-2001-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/223>

Area ID: New Zealand-MFish-CRA1

General assessment details.

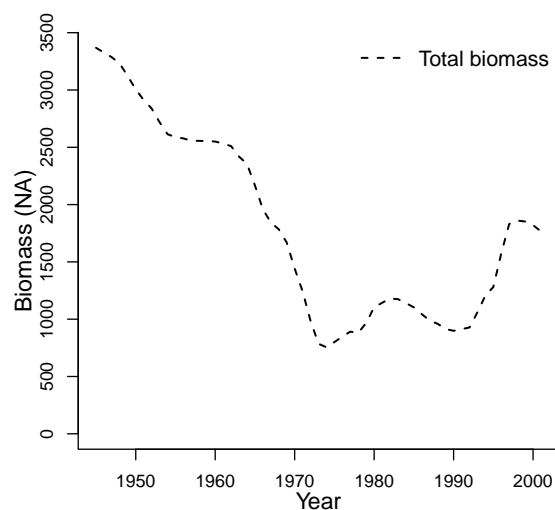
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2001
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

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

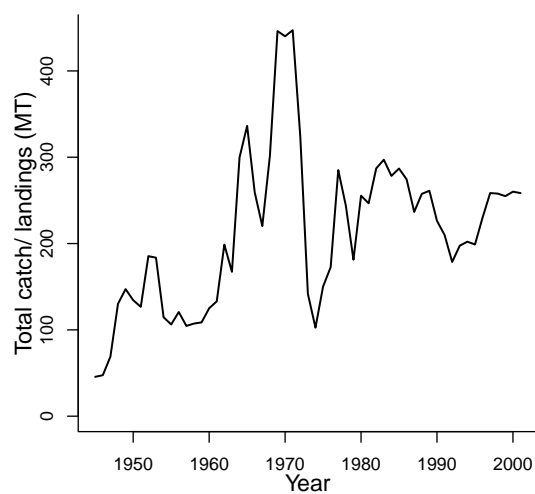
primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2001	2001
Time series minimum				754.296	45.6
Time series maximum				3368.26	447.16
Units				MT	MT



No recruitment
data available



No SSB–recruit
data available

Assessment of New Zealand Area CRA2 red rock lobster (*Jasus edwardsii*)

Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA2-1945-2001-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/224>

Area ID: New Zealand-MFish-CRA2

General assessment details.

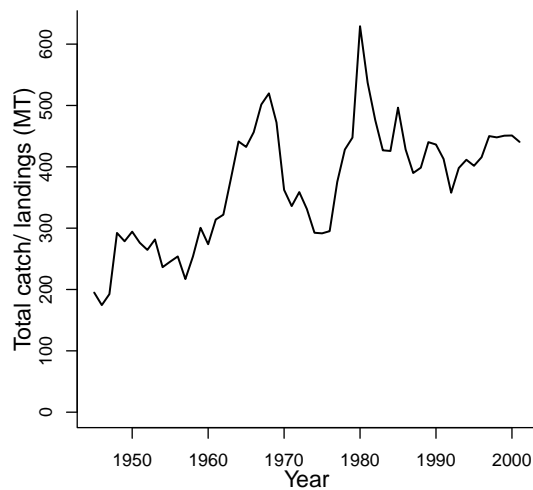
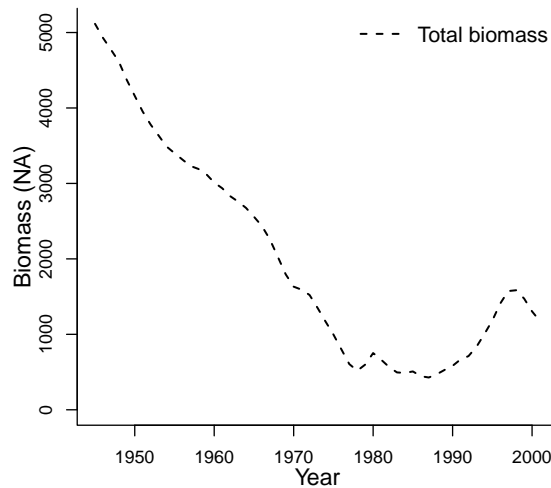
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2001
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

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

primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2001	2001
Time series minimum				427.88	174.55
Time series maximum				5115.49	629.2
Units				MT	MT



Assessment of New Zealand Area CRA3 red rock lobster (*Jasus edwardsii*)

Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA3-1945-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/225>

Area ID: New Zealand-MFish-CRA3

General assessment details.

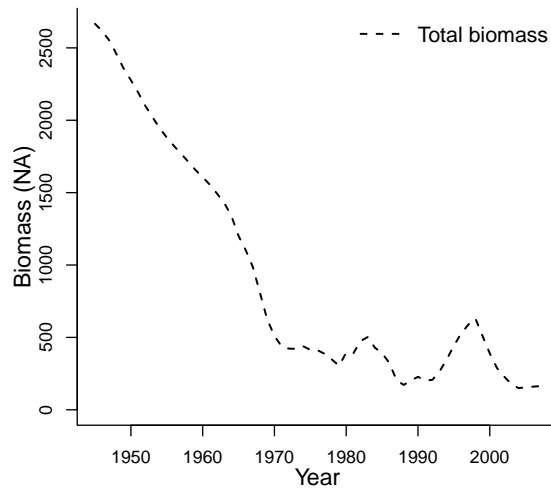
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

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

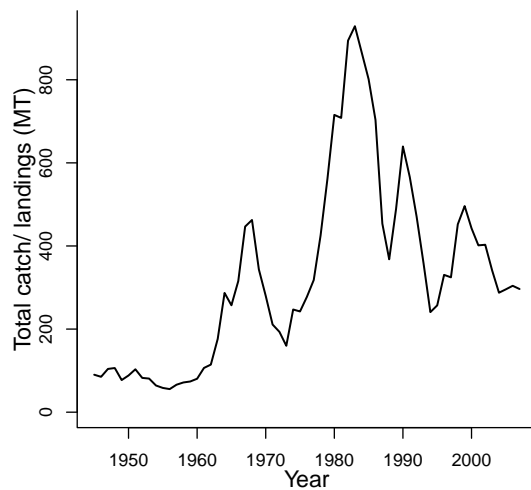
primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2007	2007
Time series minimum				150.126	55.55
Time series maximum				2666.275	928.87
Units				MT	MT



No recruitment
data available



No SSB–recruit
data available

Assessment of New Zealand Area CRA4 red rock lobster (*Jasus edwardsii*)

Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA4-1945-2005-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/226>

Area ID: New Zealand-MFish-CRA4

General assessment details.

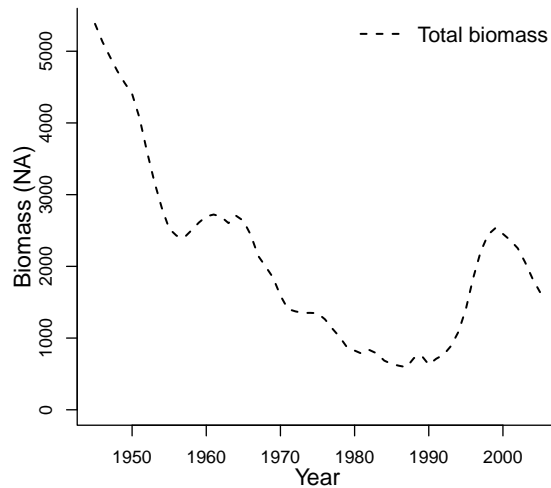
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

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

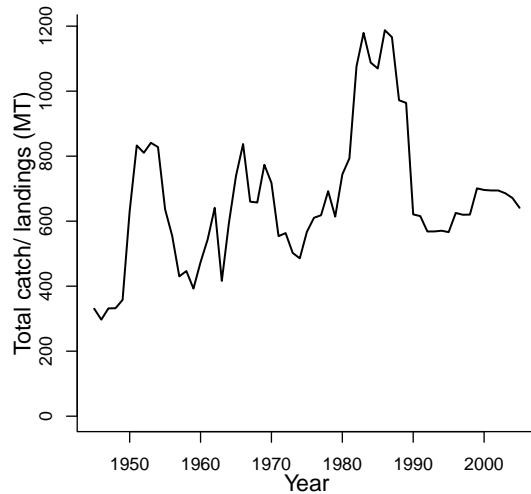
primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2005	2005
Time series minimum				593.7095	297.03
Time series maximum				5382.51	1187.51
Units				MT	MT



No recruitment
data available



No SSB–recruit
data available

Assessment of New Zealand Area CRA5 red rock lobster (*Jasus edwardsii*)

Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA5-1945-2002-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/227>

Area ID: New Zealand-MFish-CRA5

General assessment details.

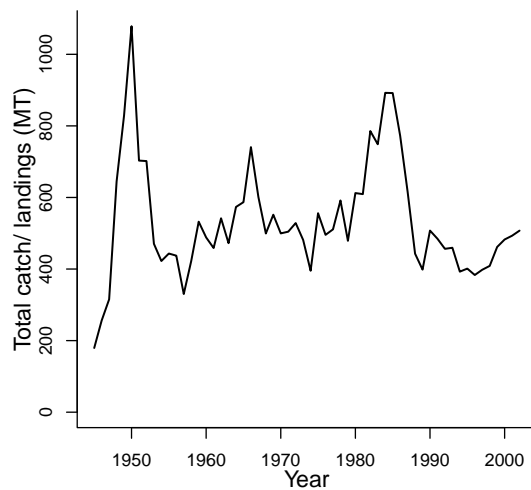
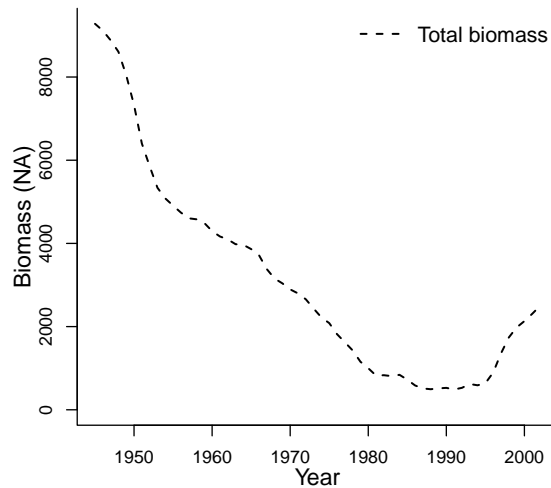
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2002
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

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

primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2002	2002
Time series minimum				488.143	179.4
Time series maximum				9279.575	1078.51
Units				MT	MT



Assessment of New Zealand Area CRA7 red rock lobster (*Jasus edwardsii*)

Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA7-1976-2005-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/228>

Area ID: New Zealand-MFish-CRA7

General assessment details.

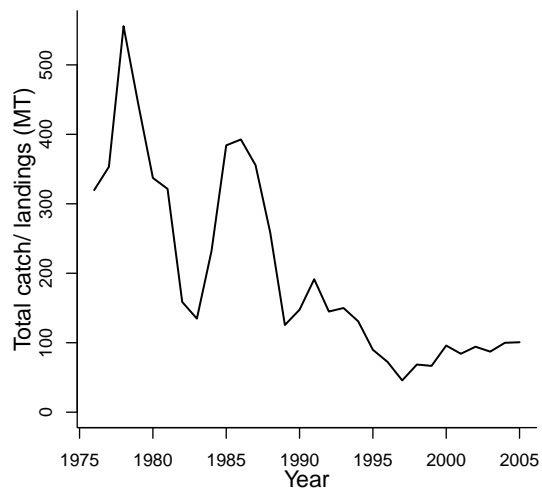
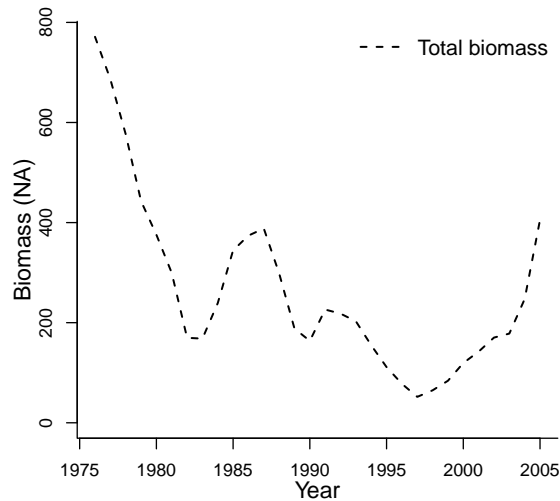
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1976-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

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

primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1976	1976
Maximum year				2005	2005
Time series minimum				51.77465	45.73
Time series maximum				771.2135	555.66
Units				MT	MT



Assessment of New Zealand Area CRA8 red rock lobster (*Jasus edwardsii*)

Assessment

ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA8-1976-2005-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/229>

Area ID: New Zealand-MFish-CRA8

General assessment details.

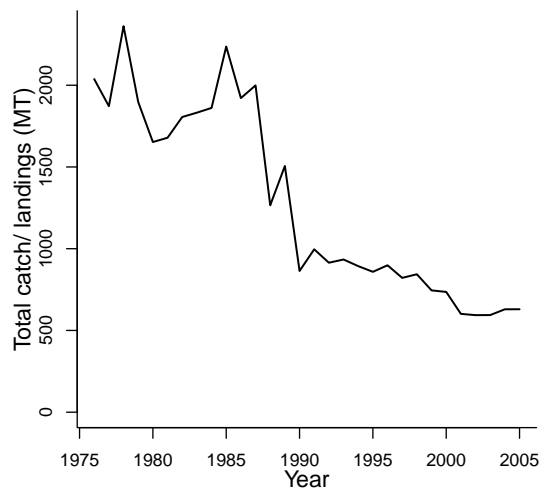
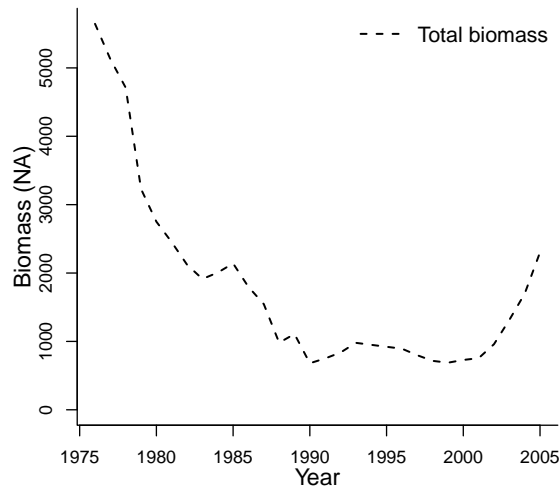
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1976-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

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

primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1976	1976
Maximum year				2005	2005
Time series minimum				680.624	593.58
Time series maximum				5645	2360.96
Units				MT	MT



Assessment of New Zealand common gemfish (*Rexea solandri*)

Assessment

ID:NZMFishMIDDEPTHSWG-GEMFISHNZ-1952-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/182>

Area ID: New Zealand-MFish-NZ

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1952-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

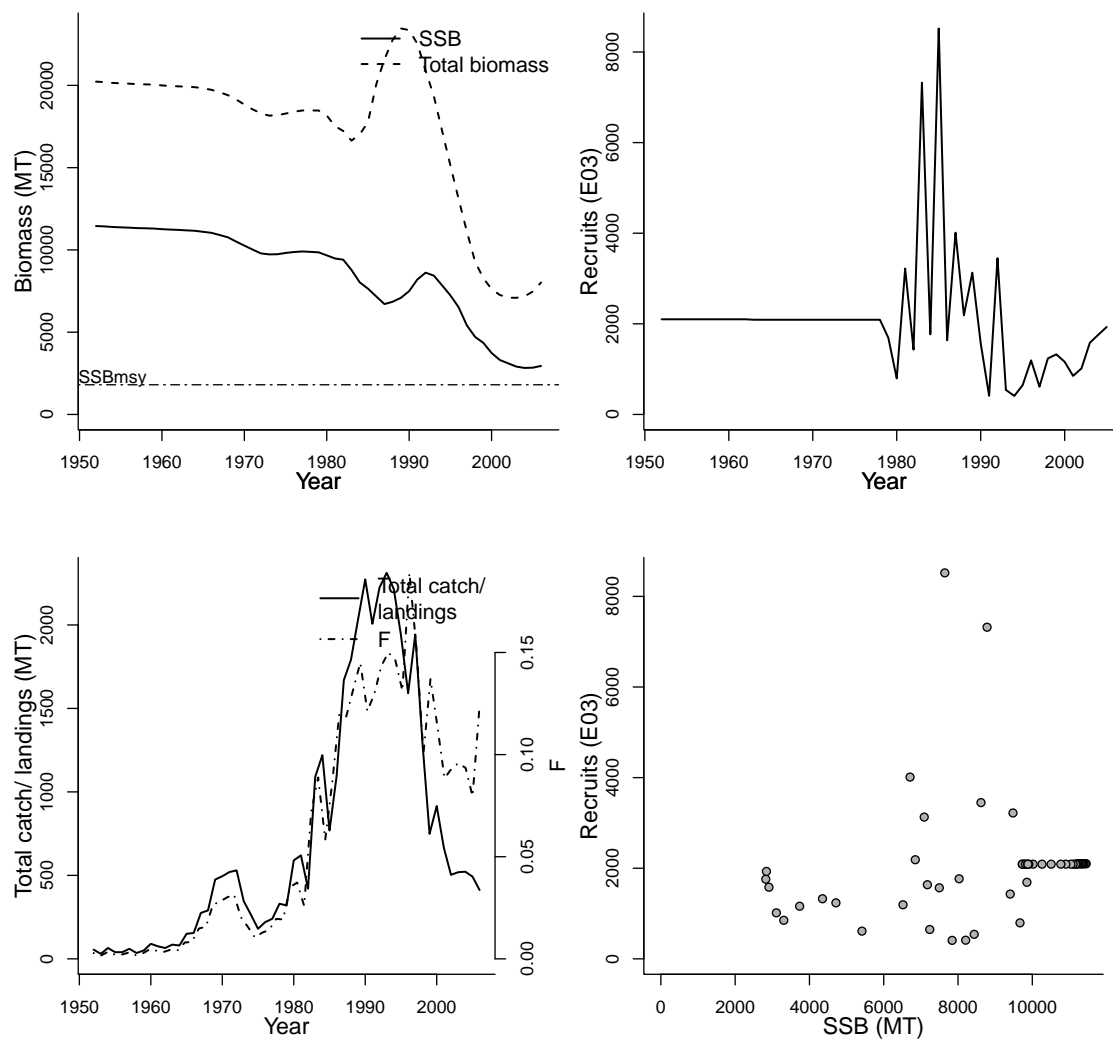
primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1	yr
A50-yr	8	yr
M-1/yr	0.24	1/yr
SSB-AGE-yr		
F-AGE-yr		
M		
L50-cm		

Parameter	Reference points	
	Value	Units
SSB0-MT (SSB)	11484.666666666667	MT
MSY-MT (TB)	1432.042733333333	MT
SSBmsy-MT (SSB)	1803.026166666667	MT
Fmsy-1/yr (F)	0.2895666666666667	1/yr
BH-h-dimless	0.9	dimless
F_{2007}/F_{msy}	0.429	
SSB_{2006}/SSB_{msy}	1.636	

Time series minima and maxima

	SSB	R	F	TB
Minimum year	1952	1952	1952	1952
Maximum year	2006	2005	2007	2006
Time series minimum	2825.23	408.241333333333	0.0015307536666667	7086.31
Time series maximum	11450.2	8519.18333333333	0.188977266666667	23459.0666666667
Units	MT	E03	1/yr	MT



Assessment of New Zealand Areas LIN 3 and 4 ling (*Genypterus blacodes*)

Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN3-4-1972-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/157>

Area ID: New Zealand-MFish-LIN3-4

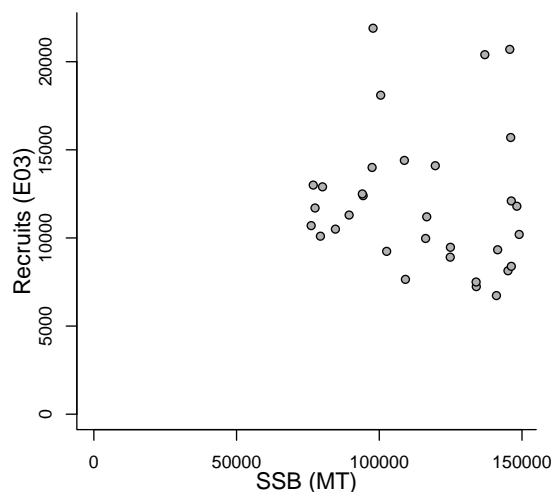
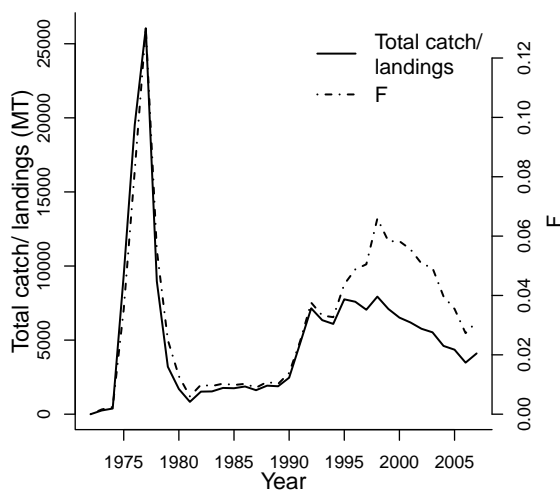
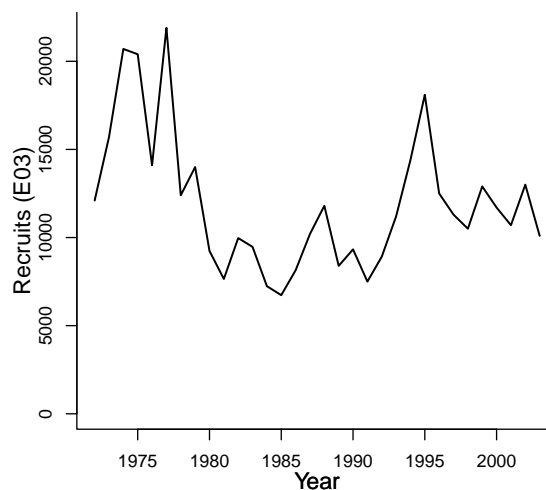
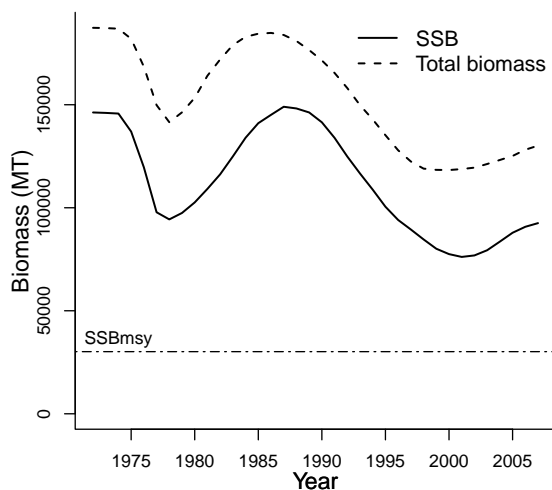
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	3	yr	SSB0-MT (SSB)	146255	MT
TB-AGE-yr	3	yr	MSY-MT (TB)	9755.2085	MT
A50-yr	9	yr	SSBmsy-MT (SSB)	30157.781	MT
M-1/yr	0.18	1/yr	Fmsy-1/yr (F)	0.354	1/yr
SSB-AGE-yr			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2007}/F_{msy}	0.088	
M			SSB_{2007}/SSB_{msy}	3.069	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2007	2003	2007	2007	2007
Time series minimum	76136.8	6730	0	118300	0
Time series maximum	149018	21900	0.1300457	187345	26049
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas LIN 5 and 6 ling (*Genypterus blacodes*)

Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN5-6-1972-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/159>

Area ID: New Zealand-MFish-LIN5-6

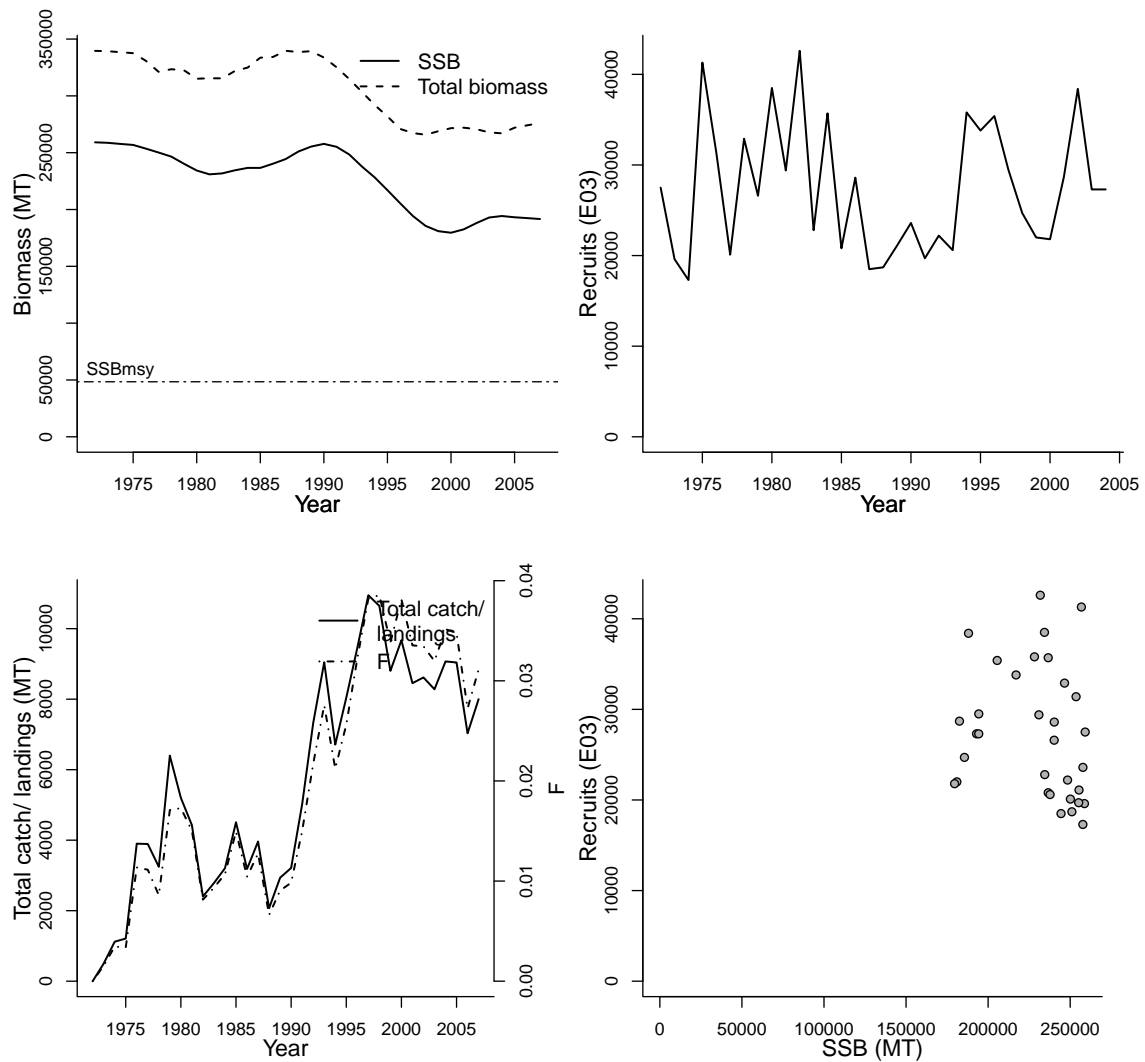
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	NULL
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	3	yr	SSB0-MT (SSB)	259140	MT
TB-AGE-yr	3	yr	MSY-MT (TB)	20497.974	MT
A50-yr	8	yr	SSBmsy-MT (SSB)	48407.352	MT
M-1/yr	0.18	1/yr	Fmsy-1/yr (F)	0.314	1/yr
SSB-AGE-yr			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2007}/F_{msy}	0.099	
M			SSB_{2007}/SSB_{msy}	3.959	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2007	2004	2007	2007	2007
Time series minimum	179574	17300	0	265773	0
Time series maximum	259140	42600	0.0385508	339670	10949
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas LIN 6b ling (*Genypterus blacodes*)

Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN6b-1980-2006-JENSEN
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/158>

Area ID: New Zealand-MFish-LIN6b

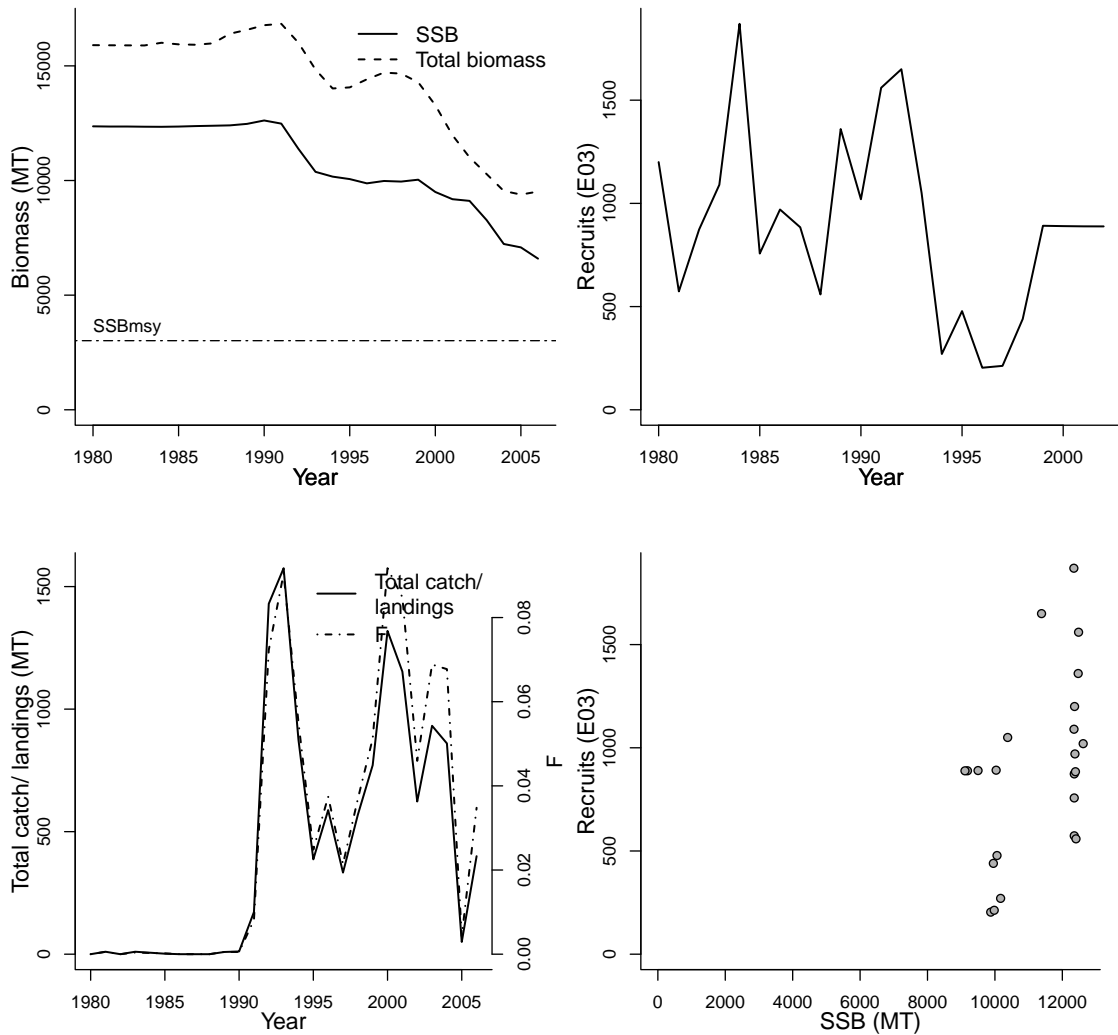
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1980-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME		tertiary LME
46 - New Zealand Shelf			na		na
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	3	yr	SSB0-MT (SSB)	12363	MT
TB-AGE-yr	3	yr	MSY-MT (TB)	893.8449	MT
A50-yr	9	yr	SSBmsy-MT (SSB)	3014.0994	MT
M-1/yr	0.18	1/yr	Fmsy-1/yr (F)	0.308	1/yr
SSB-AGE-yr			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2006}/F_{msy}	0.113	
M			SSB_{2006}/SSB_{msy}	2.187	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1980	1980	1980	1980	1980
Maximum year	2006	2002	2006	2006	2006
Time series minimum	6591.52	203.722	0	9387.44	0
Time series maximum	12618.6	1870	0.09172329	16835	1575
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas LIN 72 ling (*Genypterus blacodes*)

Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN72-1972-2007-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/160>

Area ID: New Zealand-MFish-LIN72

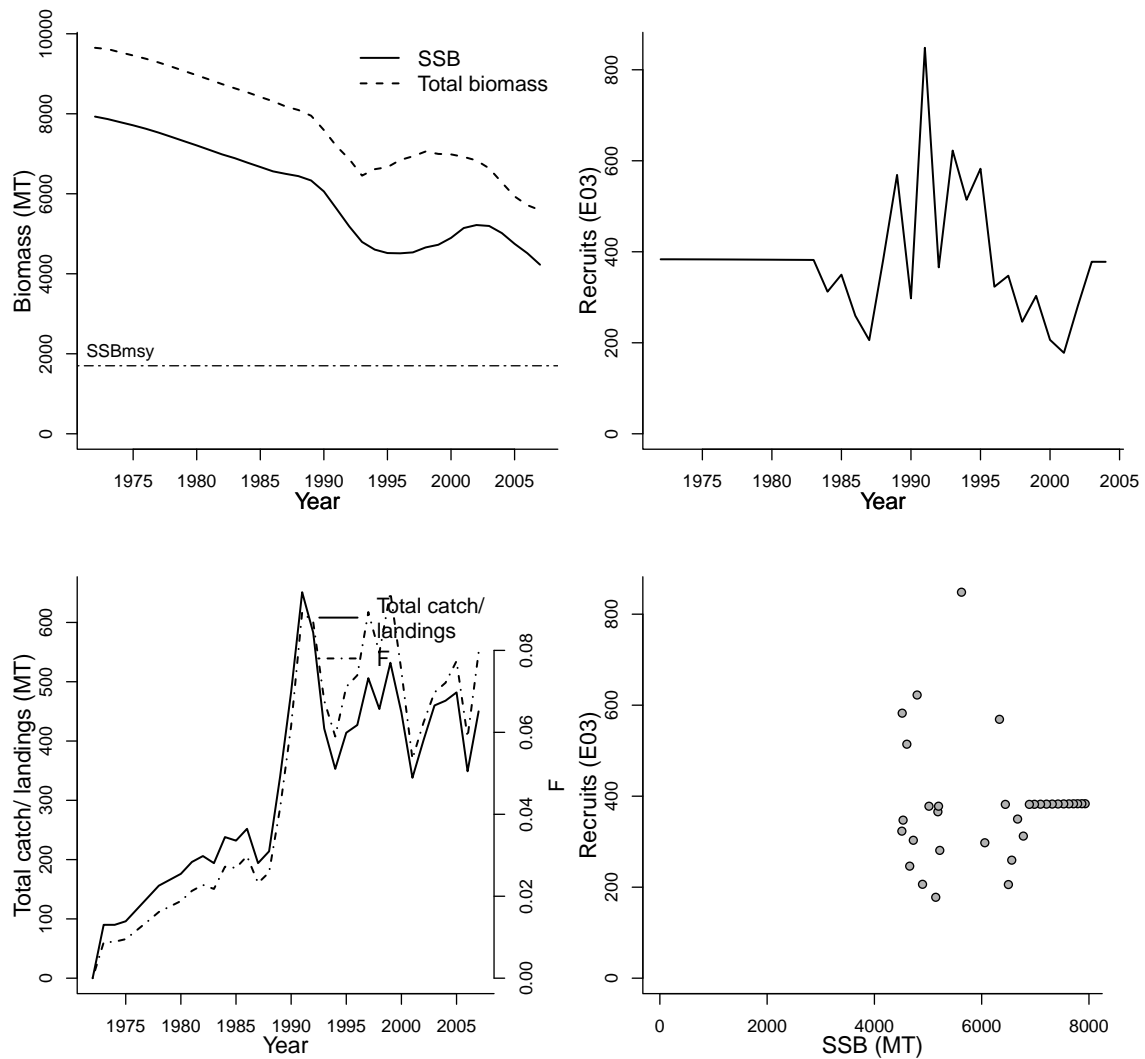
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	NULL
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

			primary LME	secondary LME	tertiary LME
			46 - New Zealand Shelf	na	na
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	3	yr	SSB0-MT (SSB)	7929.48	MT
TB-AGE-yr	3	yr	MSY-MT (TB)	515.8919688	MT
A50-yr	8.75	yr	SSBmsy-MT (SSB)	1700.080512	MT
M-1/yr	0.18	1/yr	Fmsy-1/yr (F)	0.246	1/yr
SSB-AGE-yr			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2007}/F_{msy}	0.323	
M			SSB_{2007}/SSB_{msy}	2.486	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2007	2004	2007	2007	2007
Time series minimum	4227.21	177.858	0	5590.11	0
Time series maximum	7929.48	848.288	0.0942003	9649.14	651
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas LIN 7WC-WCSI ling (*Genypterus blacodes*) Assessment

ID:NZMFishMIDDEPTHSWG-NZLINGLIN7WC-1972-2008-JENSEN
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/161>

Area ID: New Zealand-MFish-LIN7WC-WCSI

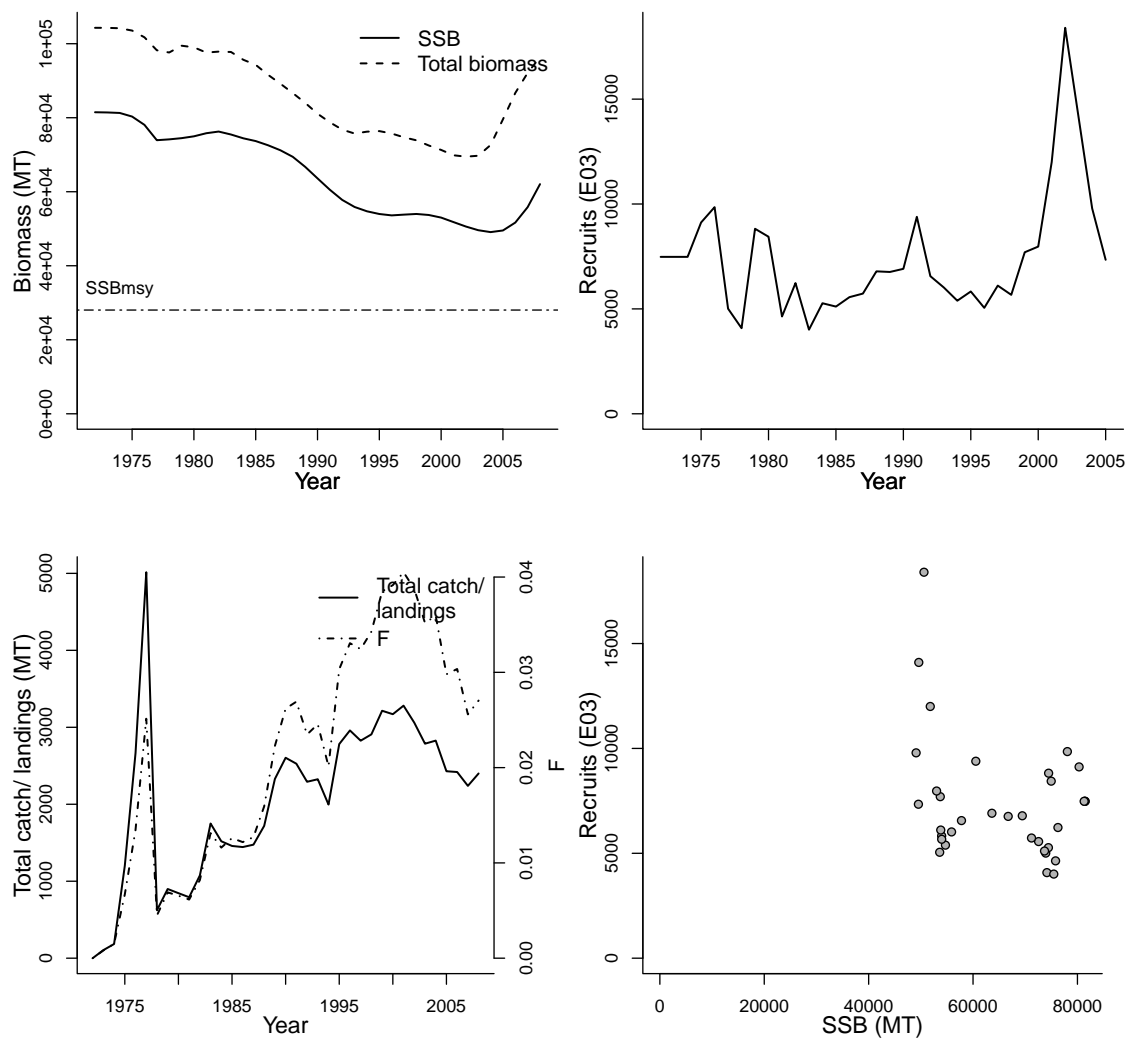
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	NULL
Assessment method	CASAL
Publication year	
Timeseries span	1972-2008
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

			primary LME	secondary LME	tertiary LME
			46 - New Zealand Shelf	na	na
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	3	yr	SSB0-MT (SSB)	81482.4	MT
TB-AGE-yr	3	yr	MSY-MT (TB)	6062.29056	MT
A50-yr	8.25	yr	SSBmsy-MT (SSB)	28029.9456	MT
M-1/yr	0.22	1/yr	Fmsy-1/yr (F)	0.202	1/yr
SSB-AGE-yr			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2008}/F_{msy}	0.134	
M			SSB_{2008}/SSB_{msy}	2.214	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2008	2005	2008	2008	2008
Time series minimum	49091.7	4010	0	69479.9	0
Time series maximum	81482.4	18400	0.04050748	104298	5015
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand - Campbell Island Rise southern blue whiting (*Micromesistius australis*)

Assessment

ID:NZMFishMIDDEPTHSWG-SBWHITACIR-1979-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/190>

Area ID: New Zealand-MFish-CIR

General assessment details.

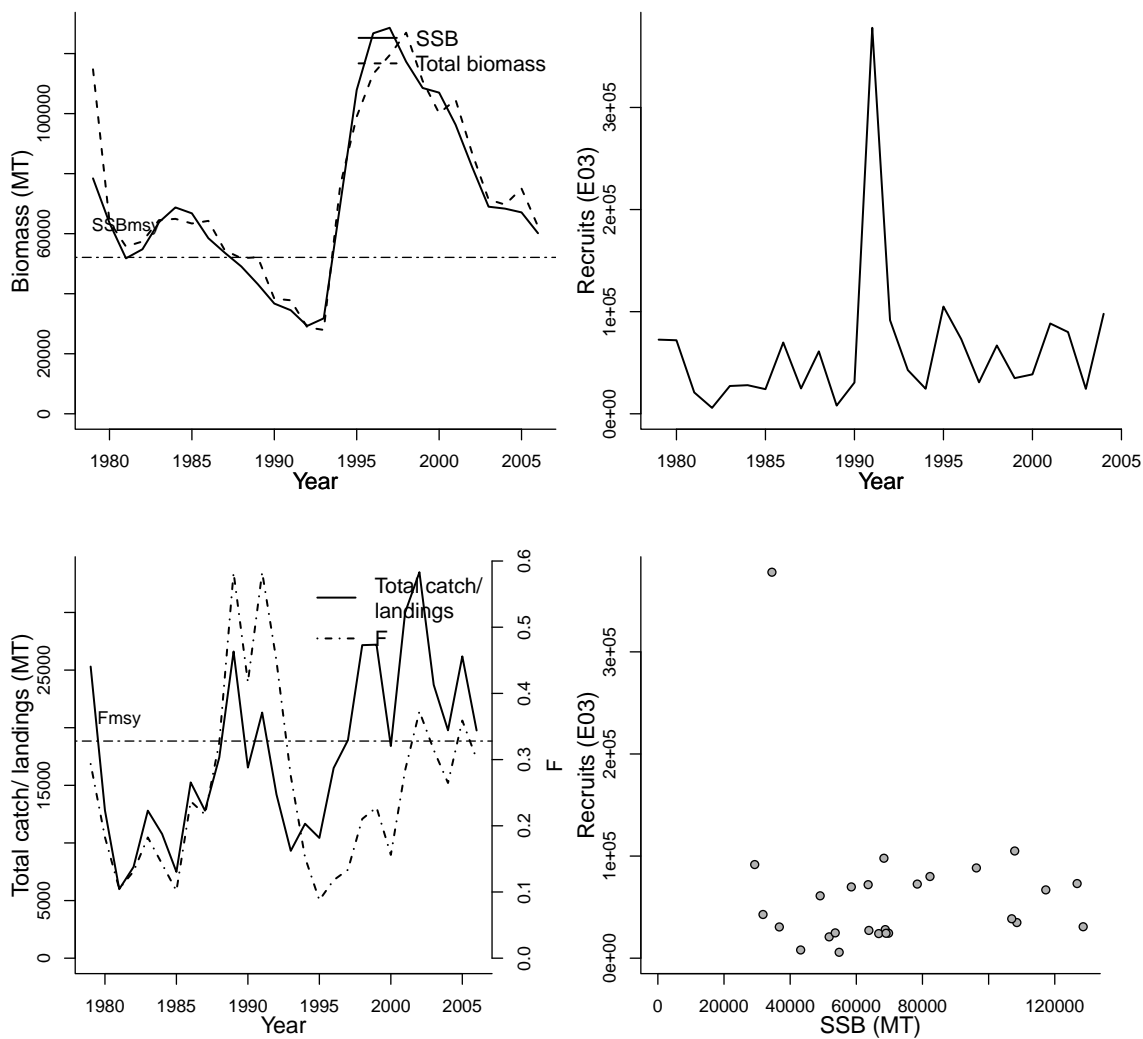
Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1979-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2009-11-13
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME
46 - New Zealand Shelf			na	na

Parameter	Value	Units	Parameter	Reference points Value	Units
REC-AGE-yr	2	yr	Fmsy-1/yr (F)	0.328	1/yr
TB-AGE-yr	2	yr	SSBmsy-MT (SSB)	52105.0464	MT
A50-yr	3	yr	MSY-MT (TB)	19276.2356	MT
M-1/yr	0.114	1/yr	BH-h-dimless	1	dimless
SSB-AGE-yr			SSB0-MT (SSB)	328946.0	MT
F-AGE-yr			R0-E00	5.84E+07	E00
M			F_{2006}/F_{msy}	0.918	
L50-cm			SSB_{2006}/SSB_{msy}	1.154	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1979	1979	1979	1979	1979
Maximum year	2006	2004	2006	2006	2006
Time series minimum	29281	5790	0.08767466	27935.3	5989
Time series maximum	128587	378000	0.5830936	126956	33493
Units	MT	E03	1/yr	MT	MT



Assessment of Chatham Rise southern hake (*Merluccius australis*)

Assessment

ID:NZMFishMIDDEPTHSWG-SOUTHHAKECR-1975-2006-JENSEN
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/180>

Area ID: New Zealand-MFish-CR

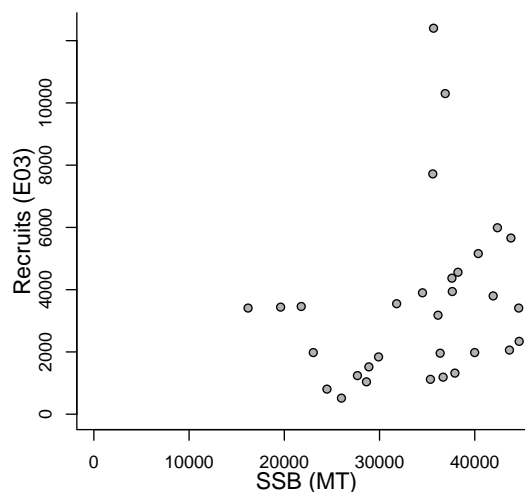
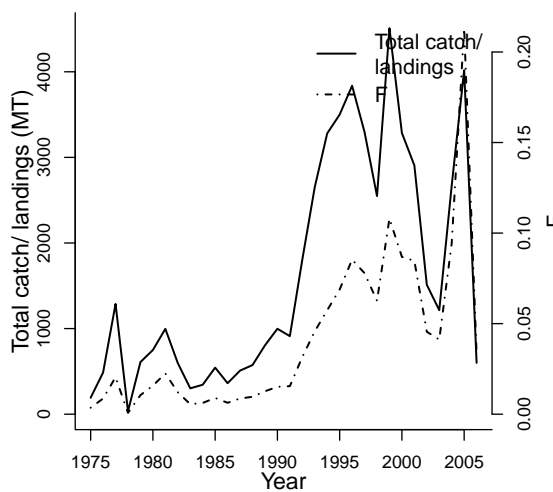
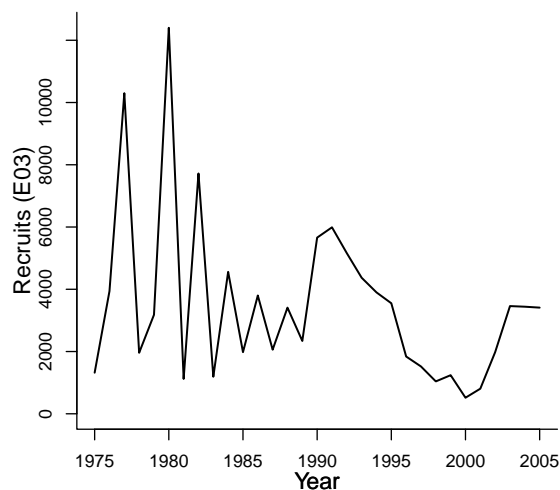
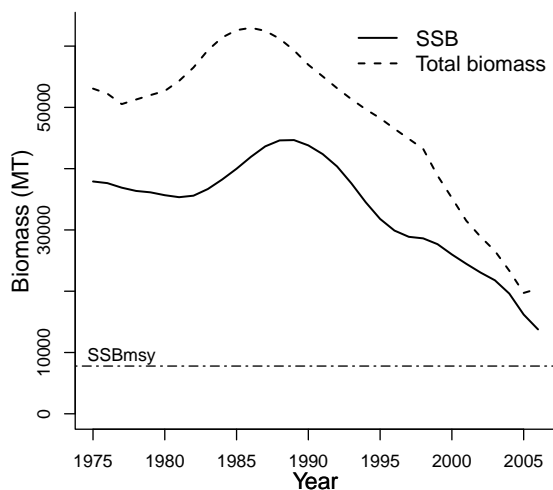
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1975-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

			primary LME	secondary LME	tertiary LME
			46 - New Zealand Shelf	na	na
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	1	yr	Fmsy-1/yr (F)	2.89E-01	1/yr
TB-AGE-yr	1	yr	MSY-MT (TB)	3042.60651	MT
A50-yr	7	yr	SSBmsy-MT (SSB)	7786.9455	MT
M-1/yr	0.18	1/yr	SSB0-MT (SSB)	37985.1	MT
SSB-AGE-yr			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2006}/F_{msy}	0.116	
M			SSB_{2006}/SSB_{msy}	1.768	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1975	1975	1975	1975
Maximum year	2006	2005	2006	2006	2006
Time series minimum	13770.4	516	0.0007420451	19723.6	34
Time series maximum	44663.7	12400	0.2131267	62986.5	4509
Units	MT	E03	1/yr	MT	MT



Assessment of Sub-Antarctic southern hake (*Merluccius australis*)

Assessment

ID:NZMFishMIDDEPTHSWG-SOUTHHAKESA-1975-2007-JENSEN
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/181>

Area ID: New Zealand-MFish-SA

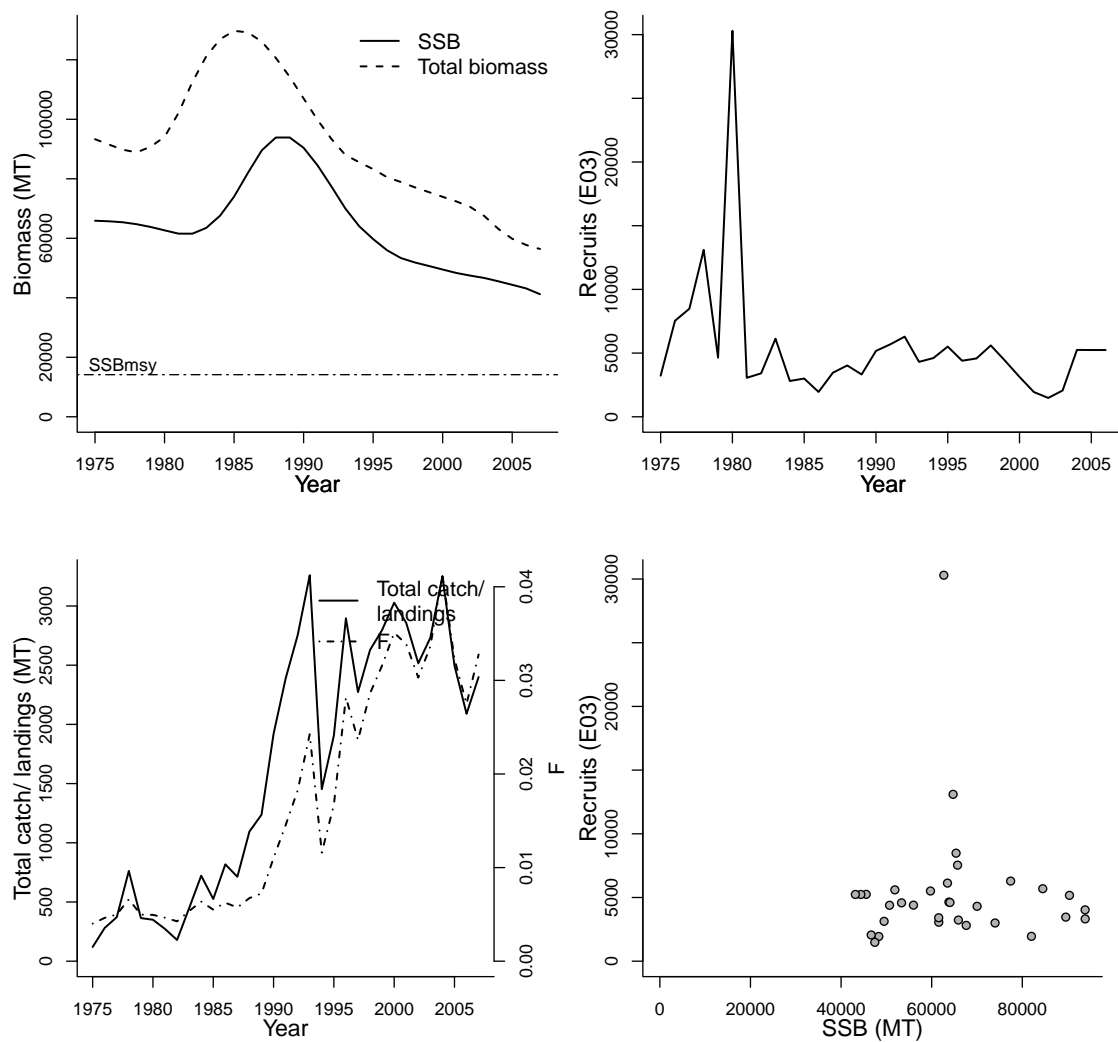
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	NULL
Assessment method	CASAL
Publication year	
Timeseries span	1975-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME	tertiary LME	
46 - New Zealand Shelf			na	na	
Parameter	Value	Units	Reference points		
			Parameter	Value	Units
REC-AGE-yr	1	yr	F _{msy} -1/yr (F)	0.307	1/yr
TB-AGE-yr	1	yr	MSY-MT (TB)	5810.2831	MT
A50-yr	7.25	yr	SSB _{msy} -MT (SSB)	14153.0846	MT
M-1/yr	0.18	1/yr	SSB0-MT (SSB)	65951	MT
SSB-AGE-yr			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2007}/F_{msy}	0.107	
M			SSB_{2007}/SSB_{msy}	2.911	
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1975	1975	1975	1975
Maximum year	2007	2006	2007	2007	2007
Time series minimum	41198.1	1480	0.004012136	56399.5	120
Time series maximum	93878.8	30300	0.04123631	129739	3260
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Area PAU 5A new zealand abalone species (*Haliotis iris*)

Assessment

ID:NZMFishSHELLFISHWG-PAUAPAU5A-1964-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/183>

Area ID: New Zealand-MFish-PAU5A

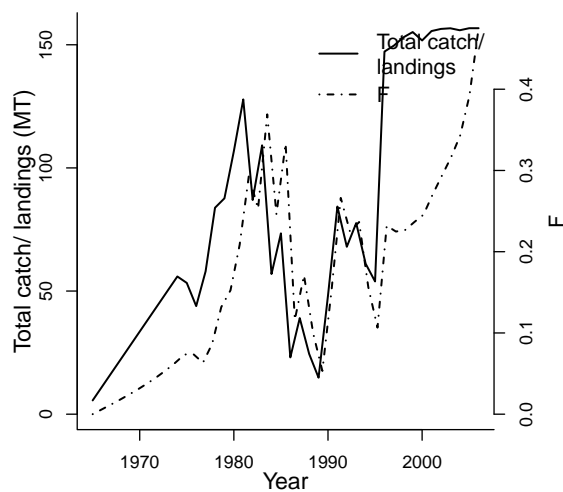
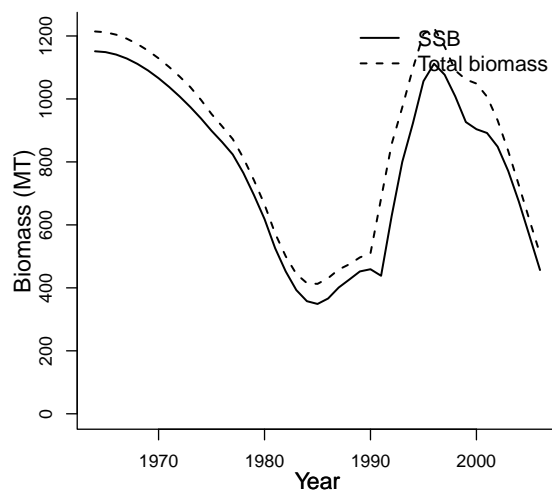
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1964-2006
Document	07-09-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2009-06-10
QA/QC complete	NO
Date approved	

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

primary LME			secondary LME			tertiary LME		
46 - New Zealand Shelf			na			na		
Parameter	Value	Units						
REC-AGE								
SSB-AGE-yr								
TB-AGE-yr								
F-AGE-yr								
M								
A50-yr								
L50-cm								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964		1964	1964	1965
Maximum year	2006		2006	2006	2006
Time series minimum	348.871		0	412.6615	5.591
Time series maximum	1151.38		0.475108	1225.96	156.725
Units	MT		ratio	MT	MT



Assessment of New Zealand Area PAU 5B (Stewart Island) new zealand abalone species (*Haliotis iris*)

Assessment

ID:NZMFishSHELLFISHWG-PAUAPAU5B-1963-2007-JENSEN
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/185>

Area ID: New Zealand-MFish-PAU5B

General assessment details.

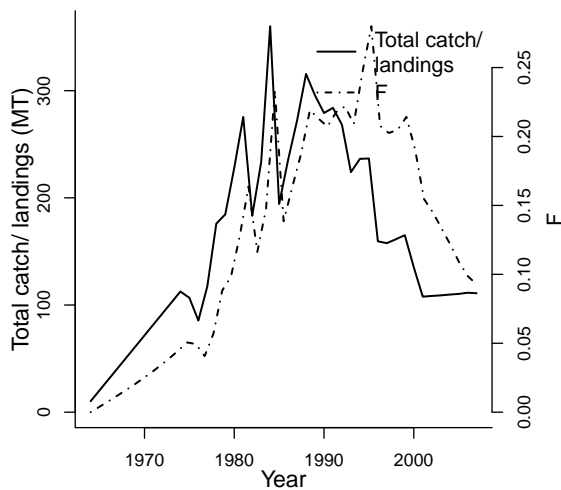
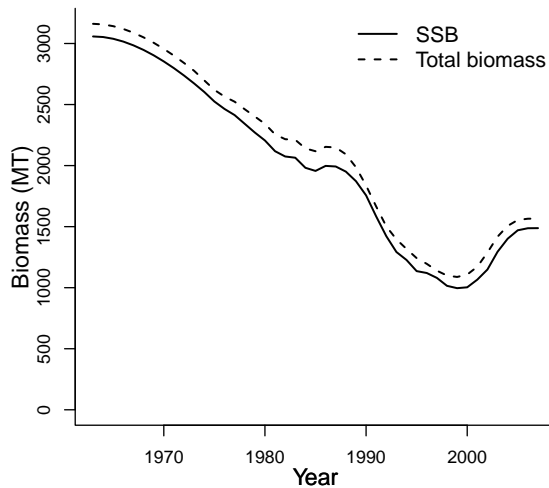
Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1963-2007
Document	08-05-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2009-06-10
QA/QC complete	NO
Date approved	

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

primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points
Parameter Value Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1963		1963	1963	1964
Maximum year	2007		2007	2007	2007
Time series minimum	995.966		0	1087.835	10.235
Time series maximum	3057.775		0.2800015	3161.35	360.148
Units	MT		ratio	MT	MT



Assessment of New Zealand Area PAU 5D (Otago) new zealand abalone species (*Haliotis iris*)

Assessment

ID:NZMFishSHELLFISHWG-PAUAPAU5D-1964-2006-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/184>

Area ID: New Zealand-MFish-PAU5D

General assessment details.

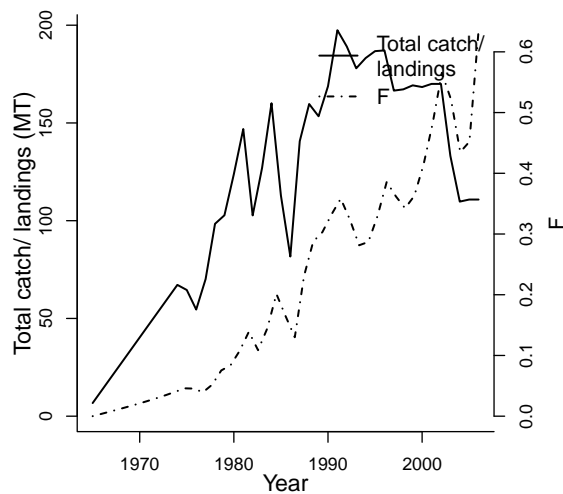
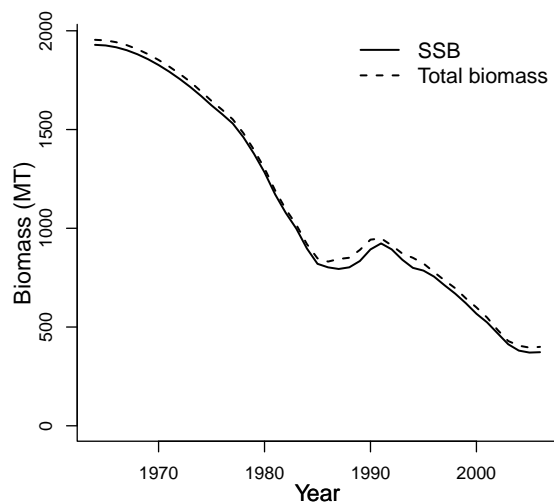
Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1964-2006
Document	07-09-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2009-06-10
QA/QC complete	NO
Date approved	

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

primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964		1964	1964	1965
Maximum year	2006		2006	2006	2006
Time series minimum	370.6535		0	395.837	6.717
Time series maximum	1928.83		0.6356325	1954.34	197.437
Units	MT		ratio	MT	MT



Assessment of New Zealand Area PAU 7 (Marlborough) new zealand abalone species (*Haliotis iris*)

Assessment

ID:NZMFishSHELLFISHWG-PAU7-1964-2008-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/186>

Area ID: New Zealand-MFish-PAU7

General assessment details.

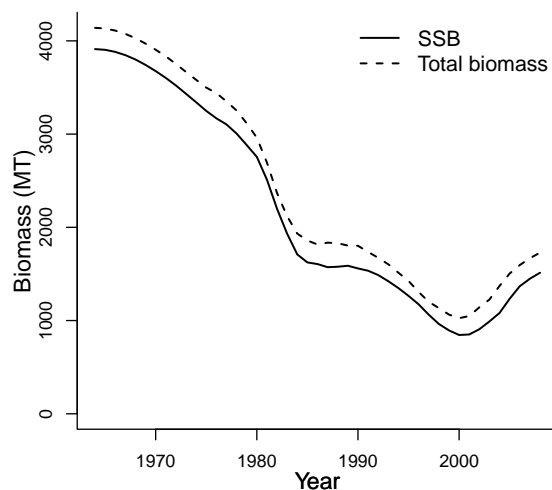
Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	NULL
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1964-2008
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2009-06-10
QA/QC complete	NO
Date approved	

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

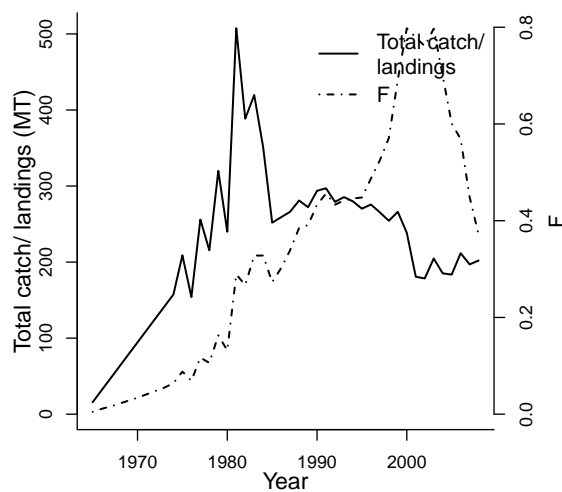
primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

Reference points
Parameter Value Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964		1965	1964	1965
Maximum year	2008		2008	2008	2008
Time series minimum	845.1		0.005	1025.2	15.744
Time series maximum	3911.64		0.798	4140.13	507.538
Units	MT		ratio	MT	MT



No recruitment
data available



No SSB–recruit
data available

MAP KEY:

- | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 |
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