Dear Susan,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 7 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

Assessment of South Africa Areas 1-2 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID:MARAM-CRLOBSTERSA12-1910-2008-Johnston
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/135

Area ID: South Africa-DETMCM-1-2

General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
QA/QC complete	NO
Date approved	

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

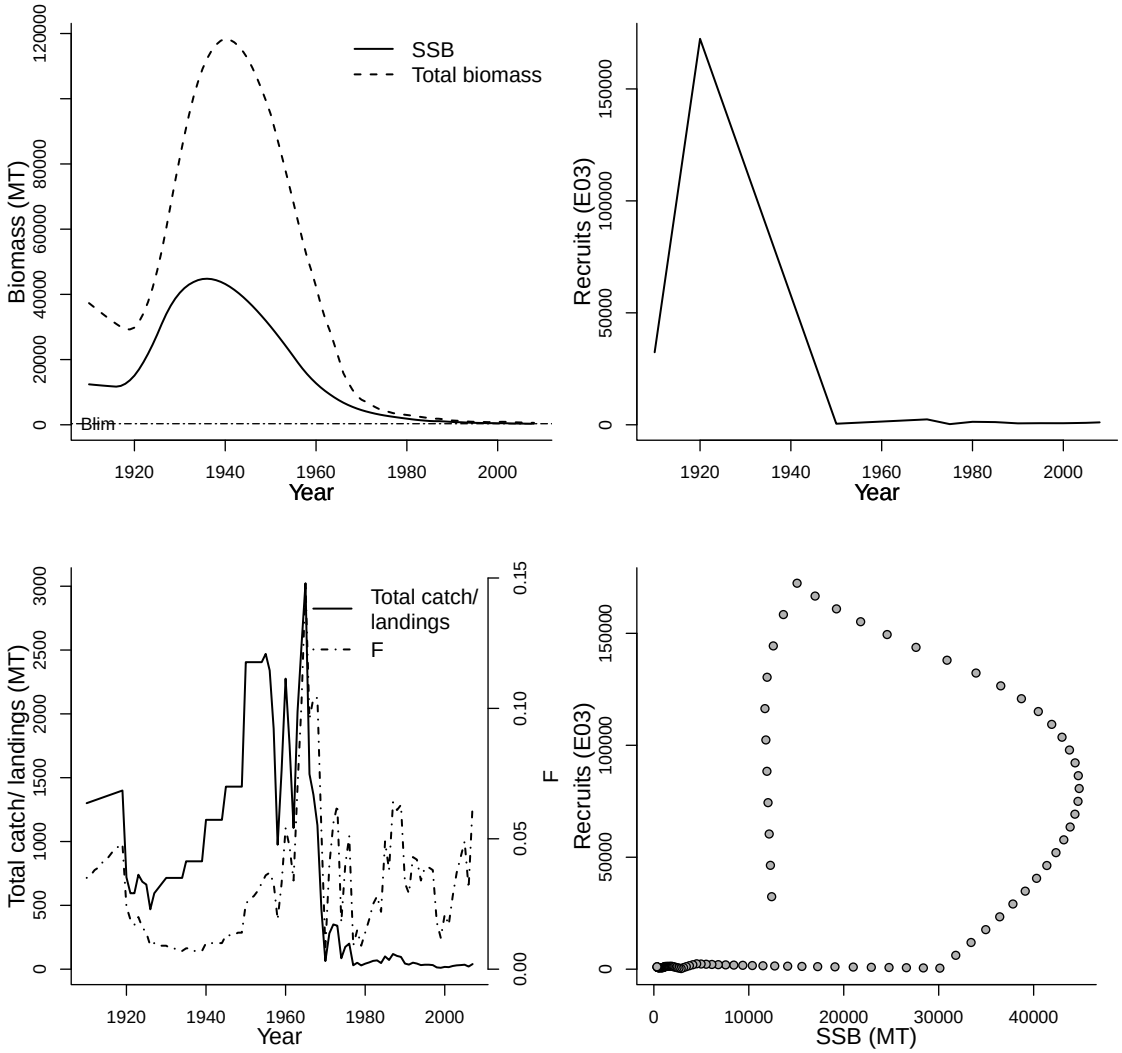
primary LME	secondary LME	tertiary LME
29 - Benguela Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
L50-cm	6.5	cm
M-1/yr	0.1	1/yr
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		

Reference points

Parameter	Value	Units
Blim-MT (TB)	326	MT
SSB0-MT (SSB)	12407	MT
R0-E00	32386294	E00

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1910	1910	1910	1910	1910
Maximum year	2008	2008	2007	2008	2007
Time series minimum	326.94	289.43869	0.007	593.17	11
Time series maximum	44795.87	172388.67	0.148	118382.77	3023.5
Units	MT	E03	1/yr	MT	MT



Assessment of South Africa Areas 3-4 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID:MARAM-CRLOBSTERSA34-1910-2008-Johnston
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/136

Area ID: South Africa-DETMCM-3-4

General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
QA/QC complete	NO
Date approved	

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

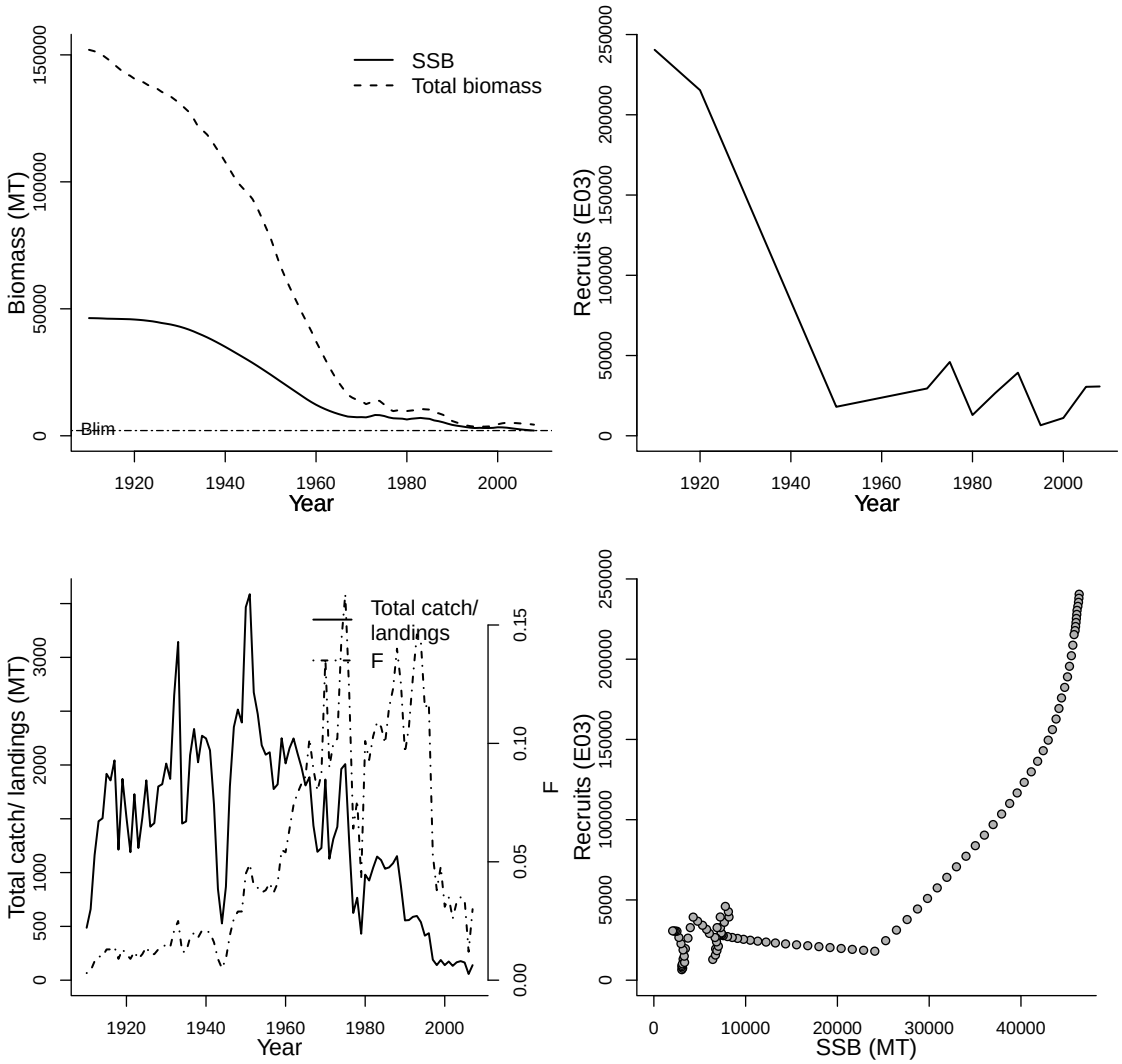
primary LME	secondary LME	tertiary LME
29 - Benguela Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
L50-cm	6.5	cm
M-1/yr	0.1	1/yr
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		

Reference points

Parameter	Value	Units
Blim-MT (TB)	2048	MT
SSB0-MT (SSB)	46342	MT
R0-E00	240492130	E00

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1910	1910	1910	1910	1910
Maximum year	2008	2008	2007	2008	2007
Time series minimum	2047.91	6554.977	0.003	3589.86	57.53
Time series maximum	46342.25	240492.13	0.163	151997.41	3587.07
Units	MT	E03	1/yr	MT	MT



Assessment of South Africa Areas 5-6 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID:MARAM-CRLOBSTERSA56-1910-2008-Johnston
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/137

Area ID: South Africa-DETMCM-5-6

General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
QA/QC complete	NO
Date approved	

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

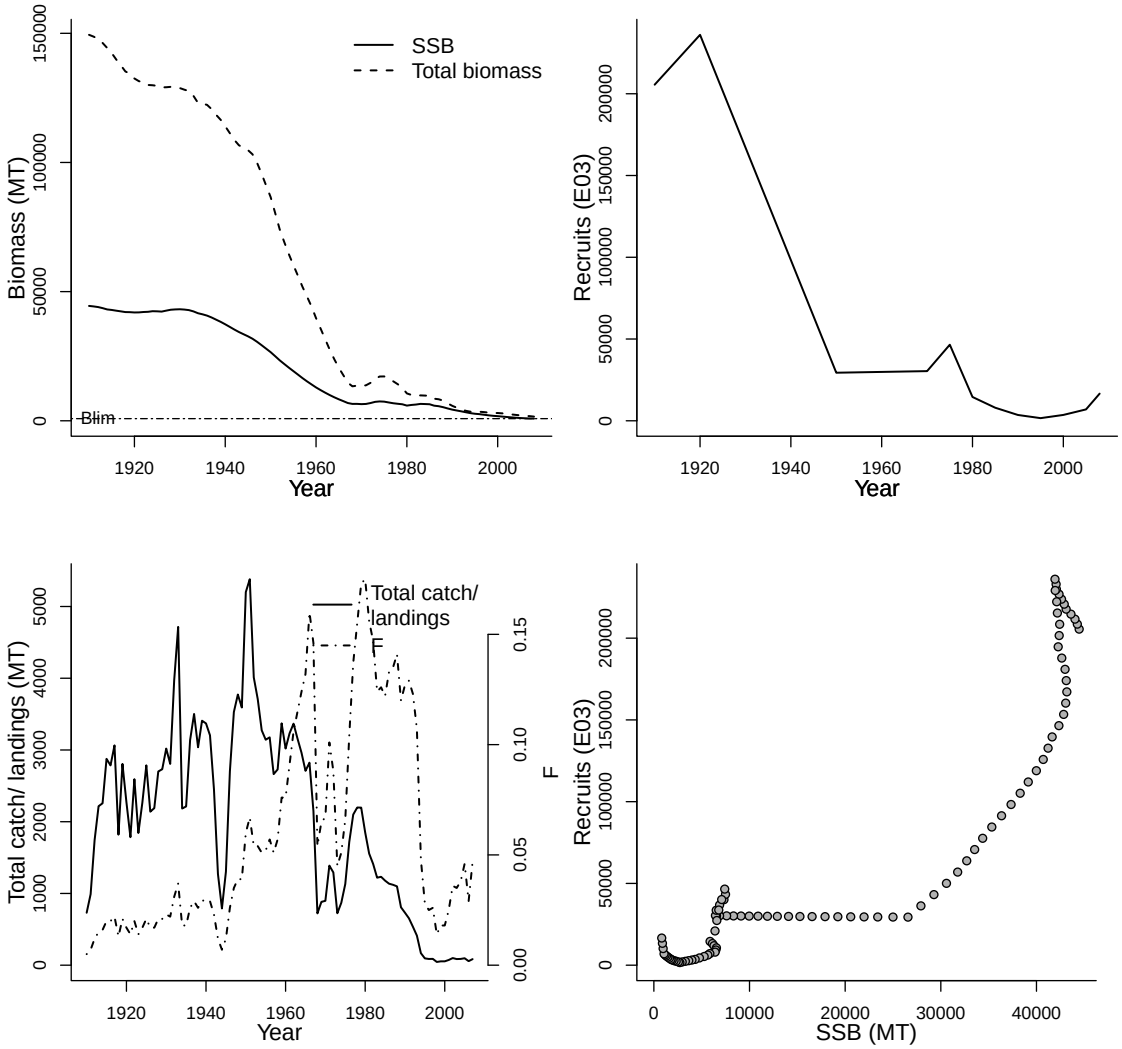
primary LME	secondary LME	tertiary LME
29 - Benguela Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr		yr-yr
L50-cm	6.5	cm
M-1/yr	0.1	1/yr
SSB-AGE-yr		
TB-AGE-yr		
M		
A50-yr		

Reference points

Parameter	Value	Units
Blim-MT (TB)	822	MT
SSB0-MT (SSB)	44464	MT
R0-E00	205531950	E00

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1910	1910	1910	1910	1910
Maximum year	2008	2008	2007	2008	2007
Time series minimum	822.13	1611.32375	0.005	1617.85	45.18
Time series maximum	44464.08	236047.94	0.175	149419.94	5380.44
Units	MT	E03	1/yr	MT	MT



Assessment of South Africa Area 7 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID:MARAM-CRLOBSTERSA7-1910-2008-Johnston
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/138

Area ID: South Africa-DETMCM-7

General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
QA/QC complete	NO
Date approved	

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

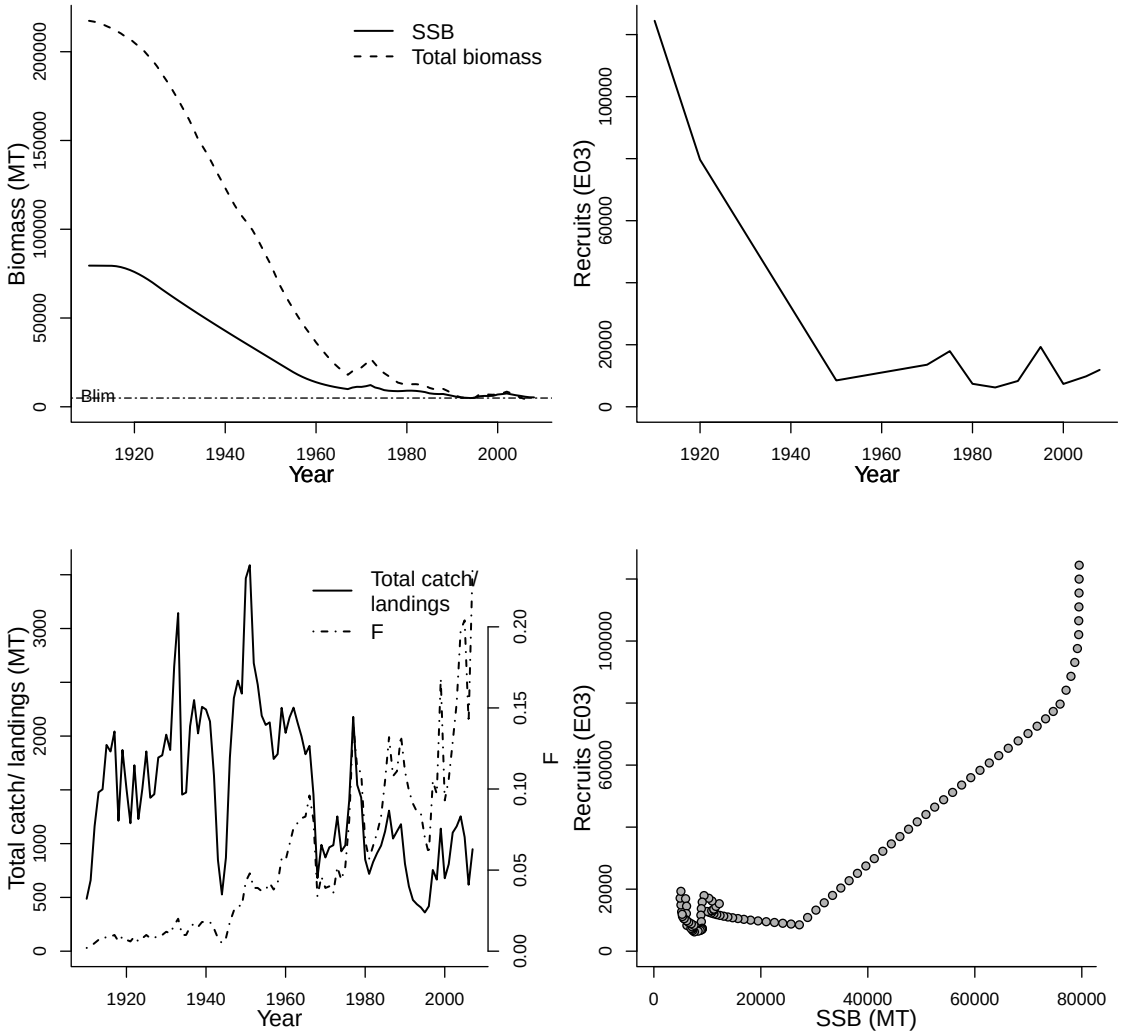
primary LME	secondary LME	tertiary LME
29 - Benguela Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
L50-cm	6.5	cm
M-1/yr	0.1	1/yr
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		

Reference points

Parameter	Value	Units
Blim-MT (TB)	4913	MT
SSB0-MT (SSB)	79509	MT
R0-E00	124447910	E00

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1910	1910	1910	1910	1910
Maximum year	2008	2008	2007	2008	2007
Time series minimum	4912.78	6224.131	0.002	3476.71	359.95
Time series maximum	79508.87	124447.91	0.238	217412.98	3588.63
Units	MT	E03	1/yr	MT	MT



Assessment of South Africa Area 8 south african west coast rock lobster (*Jasus lalandii*)

Assessment ID:MARAM-CRLOBSTERSA8-1910-2008-Johnston
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/139

Area ID: South Africa-DETMCM-8

General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2007
Timeseries span	1910-2008
Document	Johnston-SAWestRockLobster-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
QA/QC complete	NO
Date approved	

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

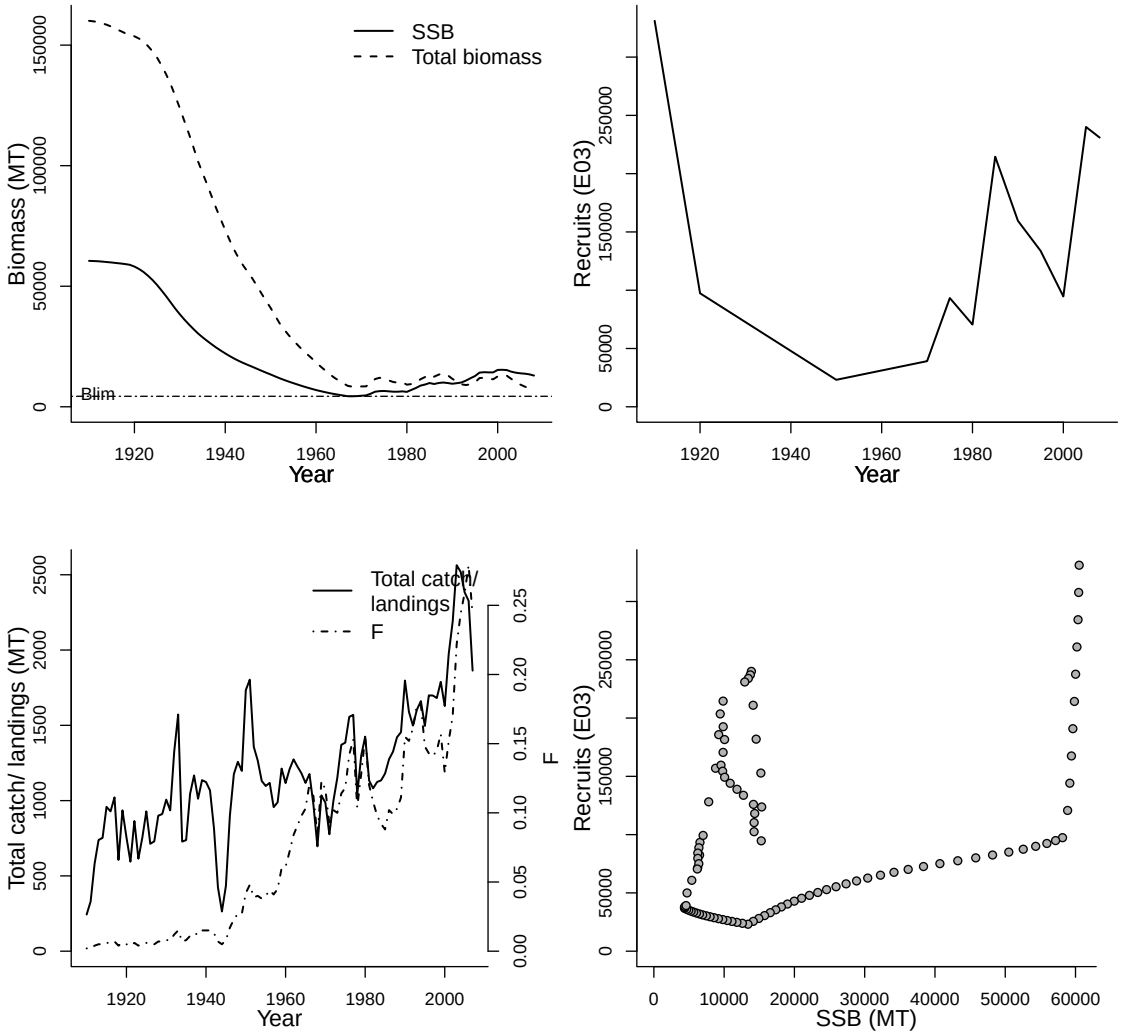
primary LME	secondary LME	tertiary LME
29 - Benguela Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
L50-cm	6.5	cm
M-1/yr	0.1	1/yr
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		

Reference points

Parameter	Value	Units
Blim-MT (TB)	4350	MT
SSB0-MT (SSB)	60521	MT
R0-E00	331132540	E00

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1910	1910	1910	1910	1910
Maximum year	2008	2008	2007	2008	2007
Time series minimum	4350.07	23132.88	0.002	7157.77	243.61
Time series maximum	60520.58	331132.54	0.279	160088.06	2563.4
Units	MT	E03	1/yr	MT	MT



Assessment of South Africa South coast cape horse mackerel (*Trachurus capensis*)

Assessment ID:MARAM-CTRACSA-1950-2007-Johnston
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/134

Area ID: South Africa-DETMCM-SASC

General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Age-structured surplus production model
Publication year	2007
Timeseries span	1950-2007
Document	Johnston-SAHorseMackerel-2007.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2010-07-16
QA/QC complete	NO
Date approved	

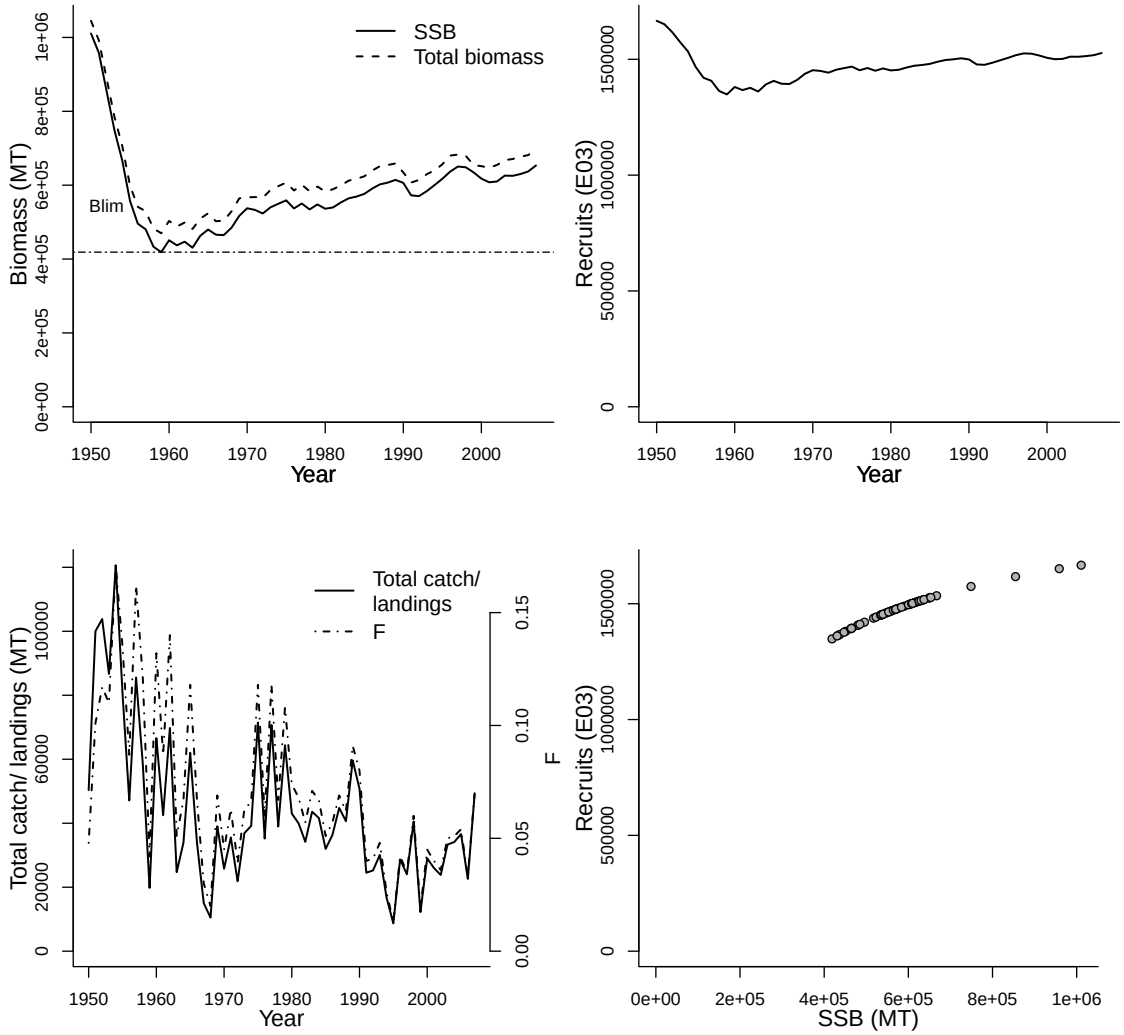
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
30 - Agulhas Current	na	na

Parameter	Value	Units
SSB-SEX-sex	0	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	0-10	yr-yr
A50-yr	3	yr
M-1/yr	0.3	1/yr
SSB-AGE-yr		
TB-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Blim-MT (TB)	418631	MT
SSB0-MT (SSB)	1010700	MT
R0-E00	166623000	E00
BH-h-dimless	0.6	dimless

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1950	1950	1950	1950	1950
Maximum year	2007	2007	2007	2007	2007
Time series minimum	418631	1348400	0.013	469844	8693
Time series maximum	1010700	1666230	0.171	1045060	120650
Units	MT	E03	1/yr	MT	MT



Assessment of South Africa South coast southern spiny lobster (*Palinurus gilchristi*)

Assessment ID:MARAM-SSLOBSTERSASC-1973-2008-Johnston
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/133

Area ID: South Africa-DETMCM-SASC

General assessment details.

Detail	Value
Management body	DETMCM
Assessment group	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Assessment authors	Johnston, S.J.
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1973-2008
Document	Johnston-SASouthRockLobster-2008.pdf (pdf in database)
Recorder	Johnston
Date entered	2009-02-12
Date last loaded	2011-03-02
QA/QC complete	YES
Date approved	2011-03-02

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

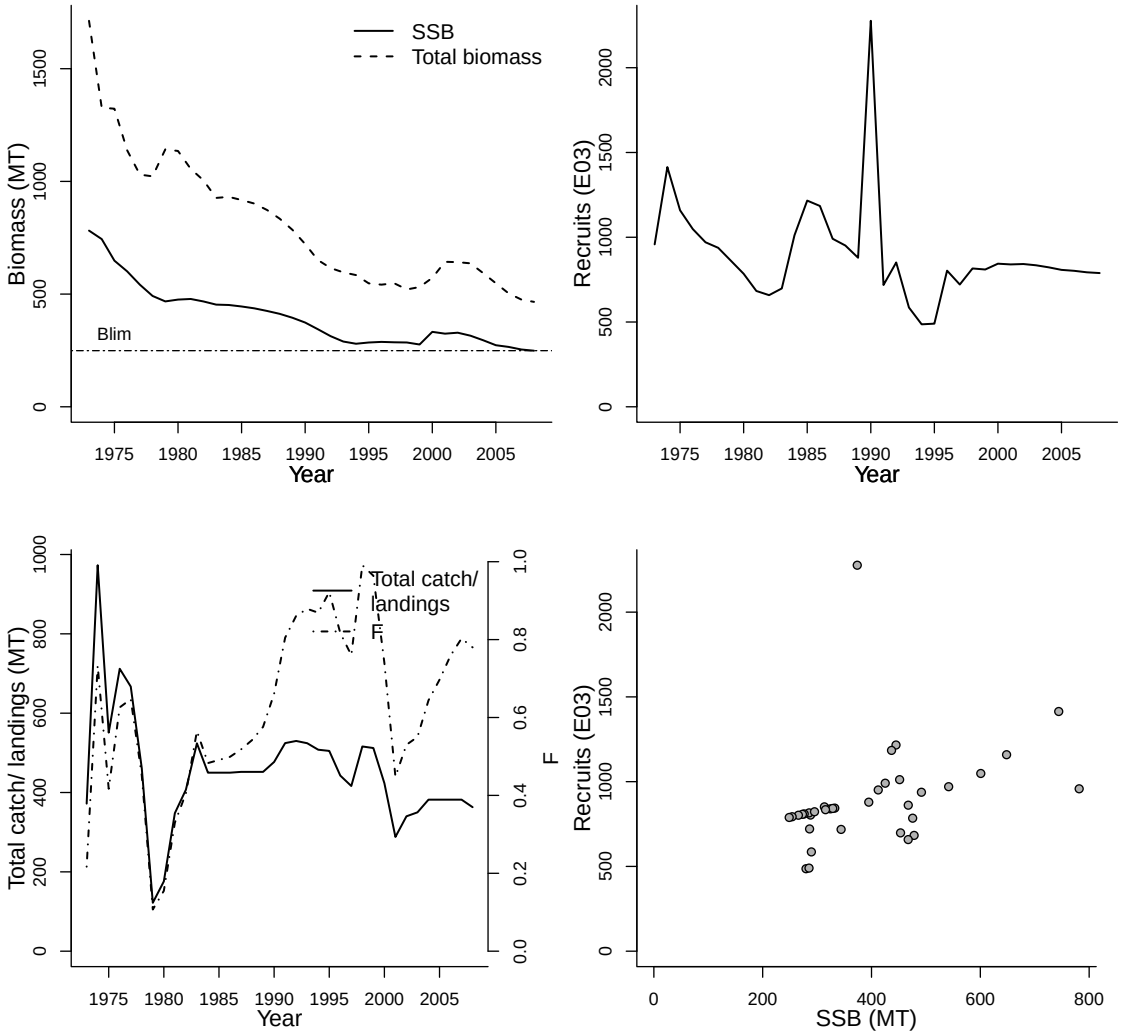
primary LME	secondary LME	tertiary LME
30 - Agulhas Current	na	na

Parameter	Value	Units
SSB-SEX-sex	1	sex
REC-AGE-yr	0	yr
F-AGE-yr-yr	0+	yr-yr
A50-yr	10	yr
M-1/yr	0.1	1/yr
TB-AGE-yr	0+	yr
SSB-AGE-yr		
M		
L50-cm		

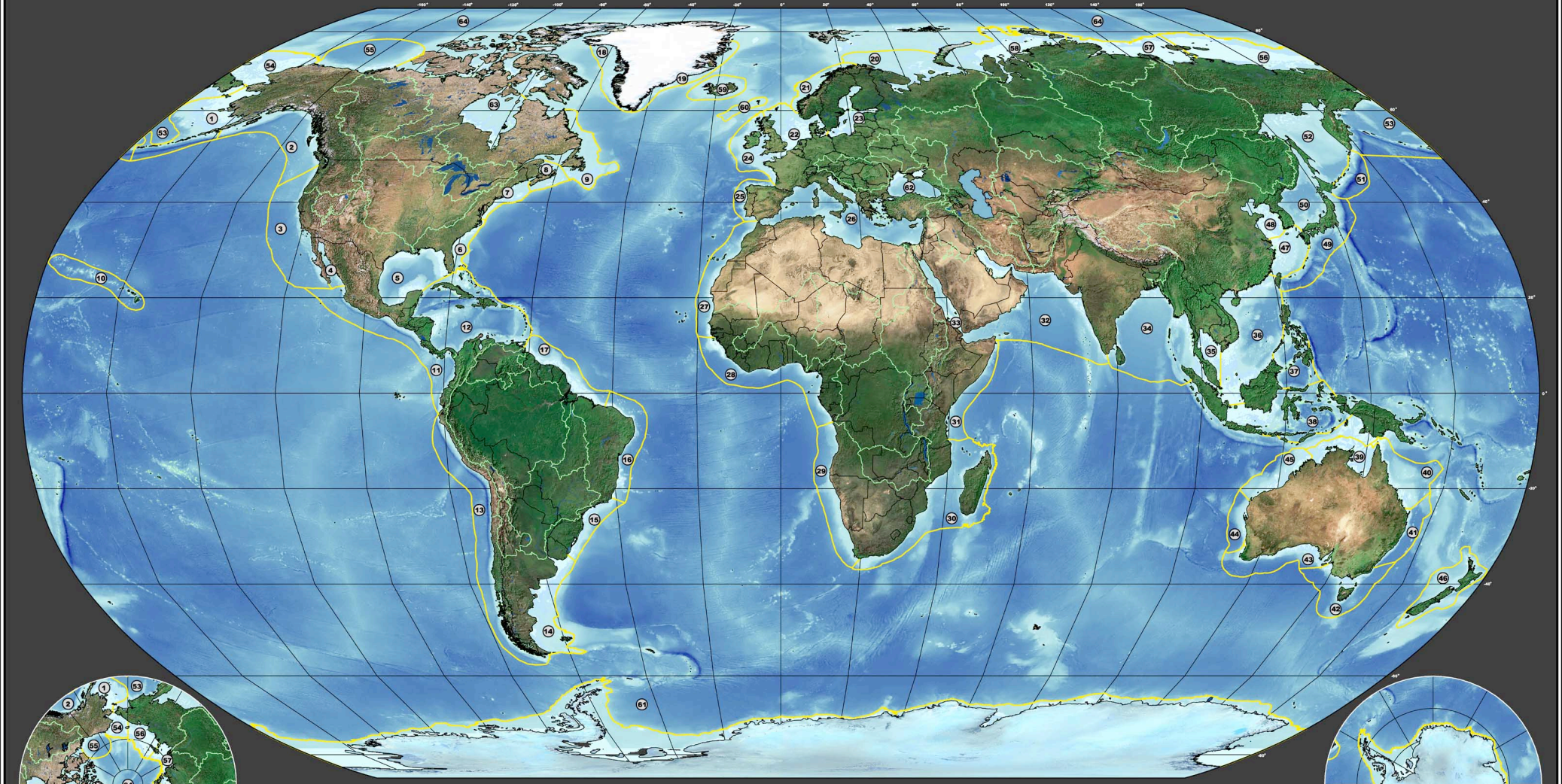
Reference points

Parameter	Value	Units
Blim-MT (TB)	249	MT
SSB0-MT (SSB)	782	MT
R0-E00	958	E00
BH-h-dimless	0.713	dimless

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1973	1973	1973	1973
Maximum year	2008	2008	2008	2008	2008
Time series minimum	248.77	486.42	0.107	465.44	122
Time series maximum	781.67	2276.74	0.991	1712.58	973
Units	MT	E03	1/yr	MT	MT



Large Marine Ecosystems of the World
and Linked Watersheds



MAP KEY:

LME Numbers:

1 East Bering Sea
2 Gulf of Alaska
3 California Current
4 Gulf of California
5 Gulf of Mexico
6 Southeast U.S. Continental Shelf
7 Northeast U.S. Continental Shelf
8 Scotian Shelf
9 Newfoundland-Labrador Shelf
10 Insular Pacific-Hawaiian
11 Pacific Central-American Coastal
12 Caribbean Sea
13 Humboldt Current
14 Patagonian Shelf
15 South Brazil Shelf
16 East Brazil Shelf
17 North Brazil Shelf
18 West Greenland Shelf
19 East Greenland Shelf
20 Barents Sea
21 Norwegian Shelf
22 North Sea
23 Baltic Sea
24 Celtic-Biscay Shelf
25 Iberian Coastal
26 Mediterranean Sea
27 Canary Current
28 Guinea Current
29 Benguela Current
30 Agulhas Current
31 Somali Coastal Current
32 Arabian Sea
33 Red Sea
34 Bay of Bengal
35 Gulf of Thailand
36 South China Sea
37 Sulu-Celebes Sea
38 Indonesian Sea
39 North Australian Shelf
40 Northeast Australian Shelf - Great Barrier Reef
41 East-Central Australian Shelf
42 Southeast Australian Shelf
43 Southwest Australian Shelf
44 West-Central Australian Shelf
45 Northwest Australian Shelf
46 New Zealand Shelf
47 East China Sea
48 Yellow Sea
49 Kuroshio Current
50 Sea of Japan
51 Oyashio Current
52 Sea of Okhotsk
53 West Bering Sea
54 Chukchi Sea
55 Beaufort Sea
56 East Siberian Sea
57 Laptev Sea
58 Kara Sea
59 Iceland Shelf
60 Faroe Plateau
61 Antarctic
62 Black Sea
63 Hudson Bay
64 Arctic Ocean

Large Marine Ecosystems
Watershed Bounds
Political Borders

DEPTH

Feet (ft)	Meters (m)
-36,080	-11,000
-32,800	-10,000
-29,520	-9,000
-26,240	-8,000
-22,960	-7,000
-19,680	-6,000
-16,400	-5,000
-13,120	-4,000
-9,840	-3,000
-6,560	-2,000
-3,280	-1,000
-1,640	-500
-246	-75
0	0

N W E S

SCALE = 1 : 31,700,000
Robinson Projection
Units Meters

Miles
0 300 600 900 1200

Kilometers
0 400 800 1200 1600 2000 2400

Data Sources:
Bathymetry (2-minute) : Smith and Sadnwell, 1997
Bathymetry (5-minute) : NAVOCEANO, DBDB5
Watersheds (HYDRO 1k) : USGS Eros Data Center
Terrestorial Image, Political Boundaries : ESRI

IUCN

***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

NORTH POLAR REGION

SOUTH POLAR REGION