South Africa Stocks

v4.44 (Dec-21-2018)

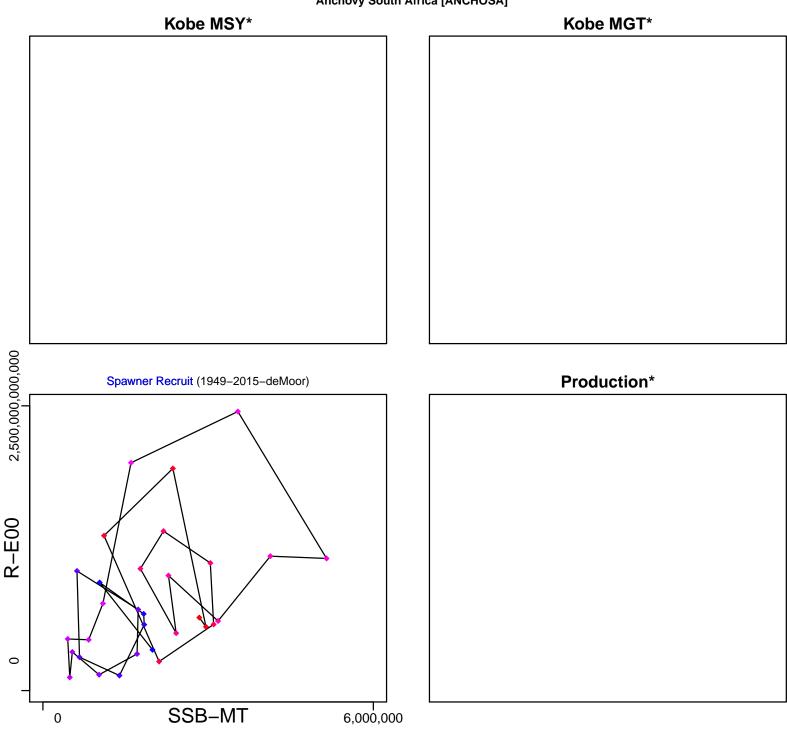
Not present Present Preferred

		Time Ser	ies Types	
Stock	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
1. ANCHOSA [Anchovy South Africa]	TB SSB	ER F	TB SSB	ER F
CHAKESA [Shallow-water cape hake South Africa]	TB SSB	ER F	TB SSB	ER F
3. CHSQUIDSA [Cape Hope squid South Africa]	TB SSB	ER F	TB SSB	ER F
4. CRLOBSTERSA12 [West coast rock lobster South Africa Areas 1-2]	TB SSB	ER F	TB SSB	ER F
5. CRLOBSTERSA34 [West coast rock lobster South Africa Areas 3-4]	TB SSB	ER F	TB SSB	ER F
6. CRLOBSTERSA56 [West coast rock lobster South Africa Areas 5-6]	TB SSB	ER F	TB SSB	ER F
7. CRLOBSTERSA7 [West coast rock lobster South Africa Area 7]	TB SSB	ER F	TB SSB	ER F
8. CRLOBSTERSA8 [West coast rock lobster South Africa Area 8]	TB SSB	ER F	TB SSB	ER F
CTRACSA [Cape horse mackerel South Africa South coast]	TB SSB	ER F	TB SSB	ER F
10. DEEPCHAKESA [Deep-water cape hake South Africa]		ER F	TB SSB	ER F
11. KINGKLIPSA [Kingklip South Africa]	TB SSB	ER F	TB SSB	ER F
12. PTOOTHFISHPEI [Patagonian toothfish South Africa Subantarctic	TB SSB	ER F	TB SSB	ER F
Prince Edward Islands]				
13. SAABALONESA [Abalone South Africa]		ER F	TB SSB	ER F
14. SARDSA [Sardine South Africa]	TB SSB	ER F	TB SSB	ER F
15. SSLOBSTERSASC [Southern spiny lobster South Africa South	TB SSB	ER F	TB SSB	ER F
coast]				

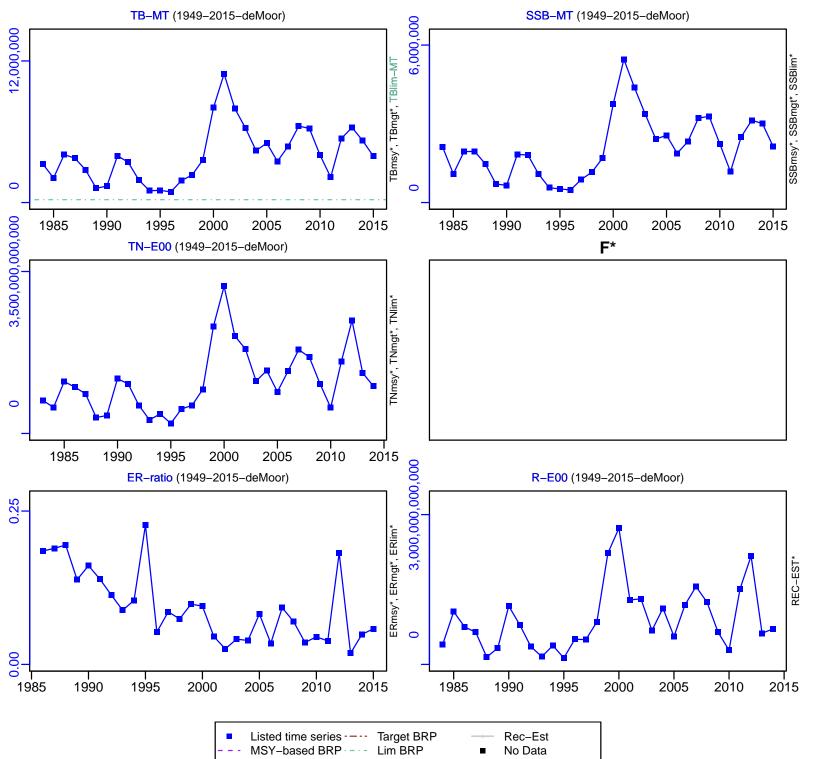
Metadata			
Scientific Name	Engraulis encrasicolus		
Current Assess ID	MARAM-ANCHOSA-1949-2015-deMoor		
Area	South Africa		
Management Authority	South African national management, Fisheries Branch of		
	Department of Agriculture, Forestry and Fisheries		
Assessor	Marine Resource Assessment and Management Group, Department of		
	Mathematics and Applied Mathematics, University of Cape Town,		
	Rondebosch, 7701, South Africa		
Asmts in RAM	2015, 2011		

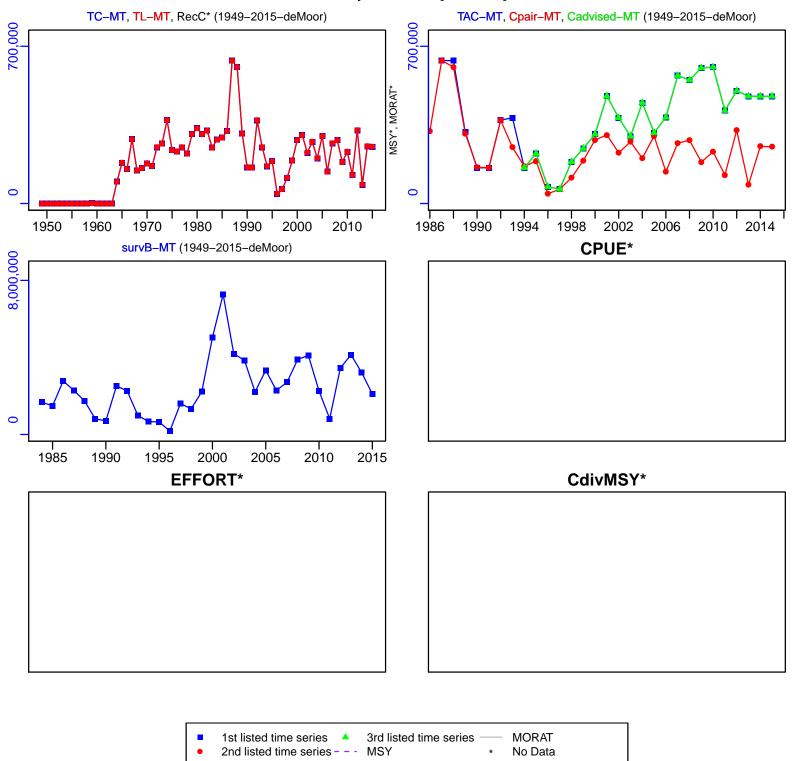
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2015	5,261,270		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2015	1.2		
TBlim	TBlim-MT	2015	204,441		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	3,340,000	Both	0+
SSB	SSB-MT	2015	2,020,000	Both	0+
TN	TN-E00	2015	9.94×10^{11}	Both	0+
R	R-E00	2015	6.41×10^{11}	Both	-
F	-	-	-	-	-
ER	ER-ratio	2015	0.053	Both	0+
TC	TC-MT	2015	238,000		
TL	TL-MT	2015	238,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year * No Data



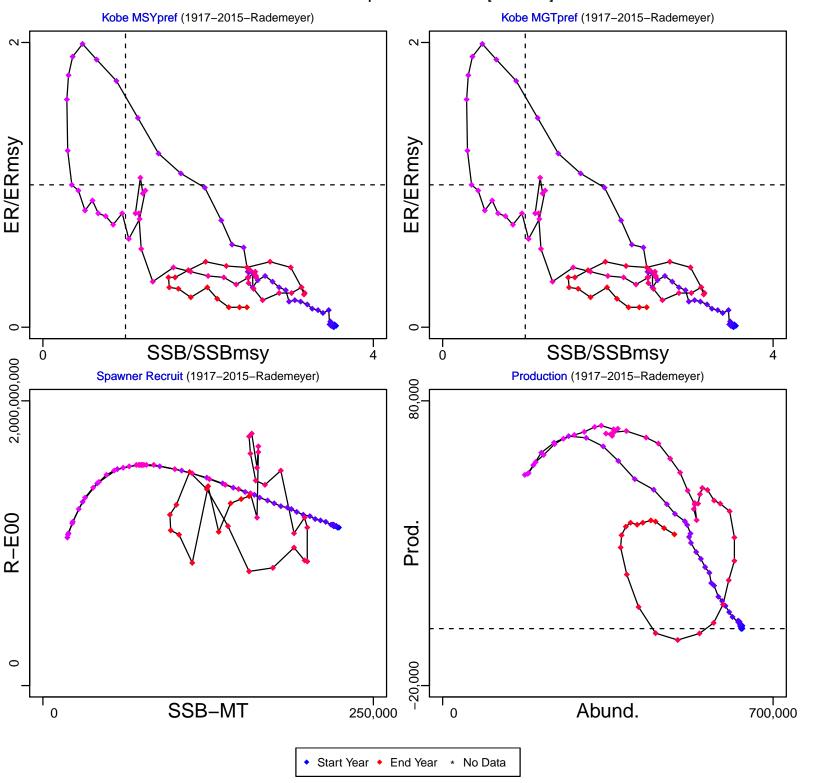


Shallow-water cape hake South Africa [CHAKESA]

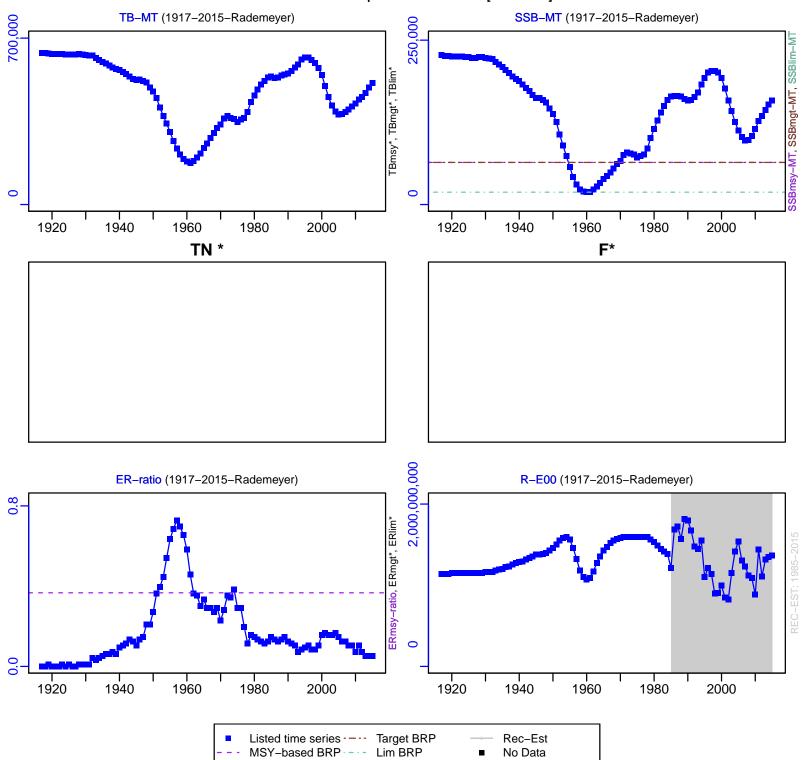
Metadata			
Scientific Name	Merluccius capensis		
Current Assess ID	MARAM-CHAKESA-1917-2015-Rademeyer		
Area	South Africa		
Management Authority	South African national management, Fisheries Branch of		
	Department of Agriculture, Forestry and Fisheries		
Assessor Marine Resource Assessment and Management Group, Department of			
	Mathematics and Applied Mathematics, University of Cape Town,		
	Rondebosch, 7701, South Africa		
Asmts in RAM	2013, 2015		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2015	63,100	
Fmsy	Fmsy-1/yr	2013	0.32	
ERmsy	ERmsy-ratio	2015	0.353	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2015	63,100	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2015	635,500	
SSB0	SSB0-MT	2015	223,800	
MSY	MSY-MT	2015	62,800	
M	M-1/yr	2015	0.717	
TBlim	TBlim-MT	2013	43,000	
SSBlim	SSBlim-MT	2015	18,500	
Flim	-	-	-	
ERlim	-	-	-	

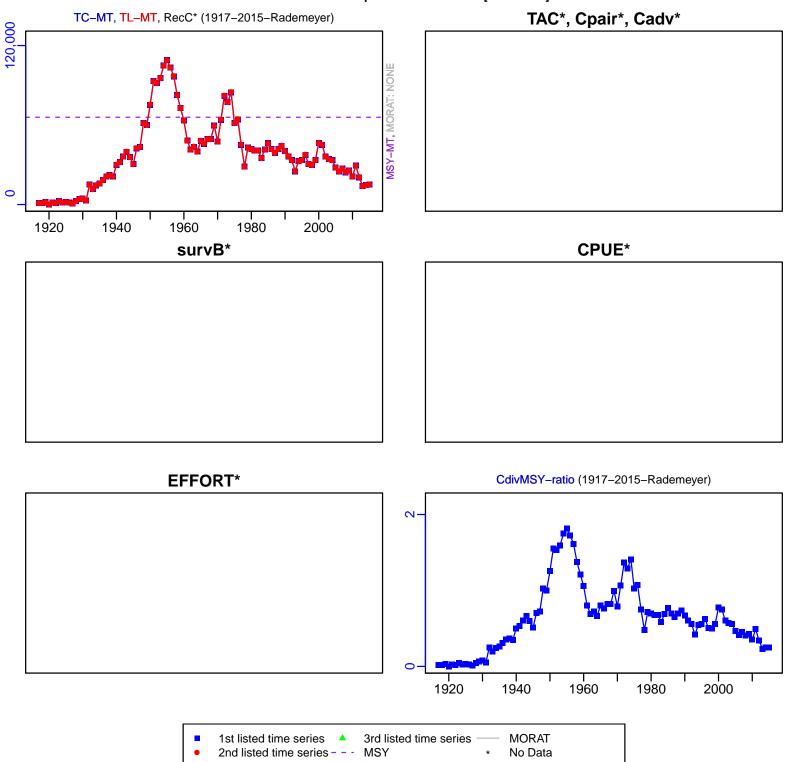
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	510,000	-	0+
SSB	SSB-MT	2015	156,000	Females	5
TN	-	-	-	-	-
R	R-E00	2015	1.33×10^{9}	-	0
F	-	-	-	-	-
ER	ER-ratio	2015	0.05	-	-
TC	TC-MT	2015	14,400		
TL	TL-MT	2015	14,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	2.47		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2015	0.14		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	2.472		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Shallow-water cape hake South Africa [CHAKESA]



Shallow-water cape hake South Africa [CHAKESA]

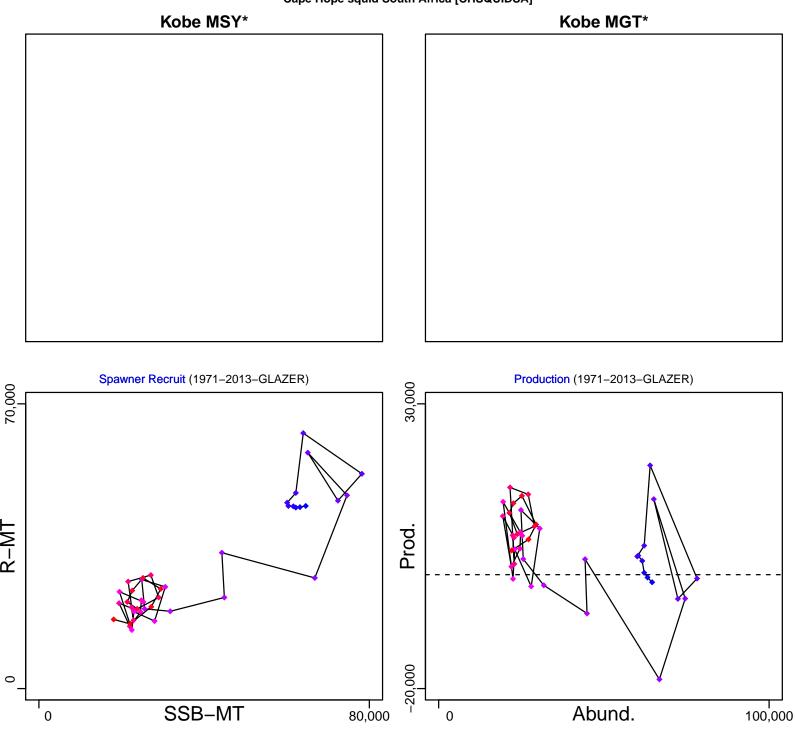


Cape Hope squid South Africa [CHSQUIDSA]

Metadata			
Scientific Name	Loligo reynaudii		
Current Assess ID	FBDAFF-CHSQUIDSA-1971-2013-GLAZER		
Area	South Africa		
Management Authority	South African national management, Fisheries Branch of		
	Department of Agriculture, Forestry and Fisheries		
Assessor	Fisheries Branch of Department of Agriculture, Forestry and Fisheries		
Asmts in RAM	2013		

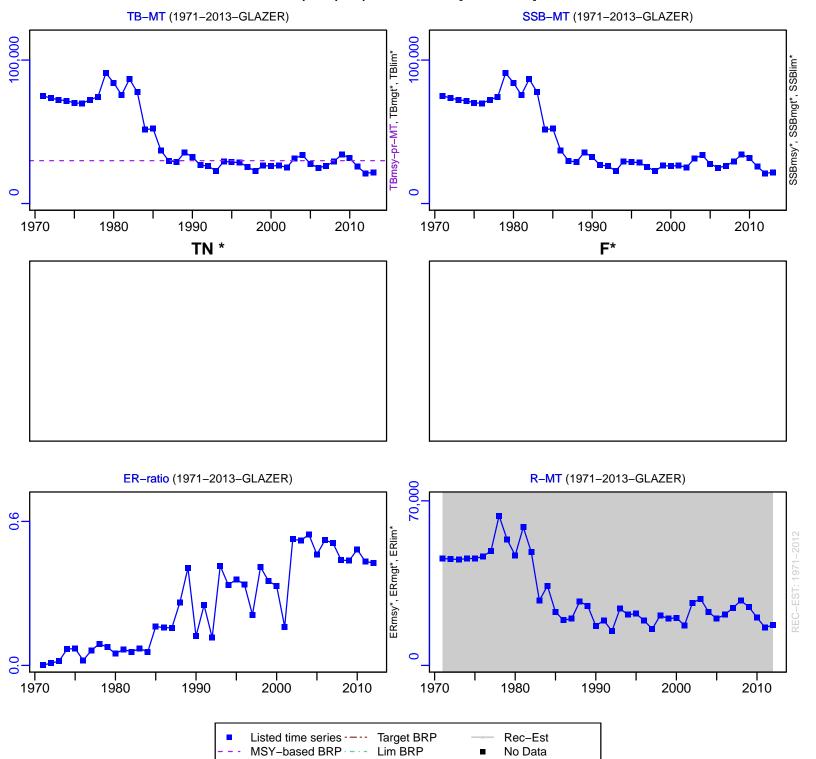
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-pr-MT	2013	25,703		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2013	64,258		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	18,700	-	-
SSB	SSB-MT	2013	18,700	Both	1
TN	-	-	-	-	-
R	R-MT	2013	17,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2013	0.369	-	-
TC	TC-MT	2013	6690		
TL	TL-MT	2013	6690		
TB/TBmsy	TB-MT/TBmsy-pr-MT	2013	0.728		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

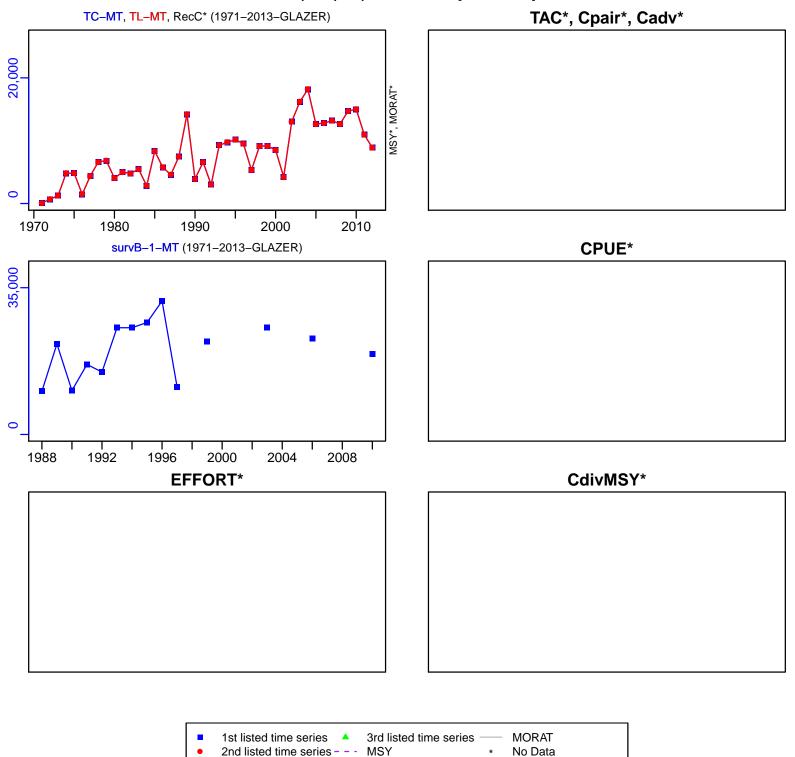


Start Year → End Year → No Data

Cape Hope squid South Africa [CHSQUIDSA]



Cape Hope squid South Africa [CHSQUIDSA]

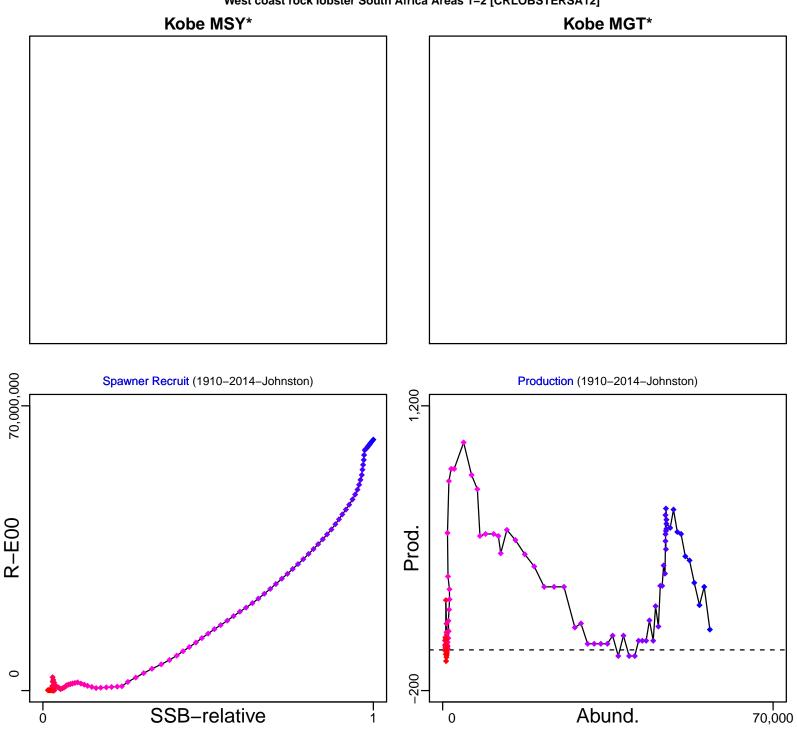


West coast rock lobster South Africa Areas 1-2 [CRLOBSTERSA12]

	Metadata			
Scientific Name	Jasus lalandii			
Current Assess ID	MARAM-CRLOBSTERSA12-1910-2014-Johnston			
Area	South Africa Areas 1-2			
Management Authority	South African national management, Fisheries Branch of			
	Department of Agriculture, Forestry and Fisheries			
Assessor	Marine Resource Assessment and Management Group, Department of			
	Mathematics and Applied Mathematics, University of Cape Town,			
	Rondebosch, 7701, South Africa			
Asmts in RAM	2012, 2014			

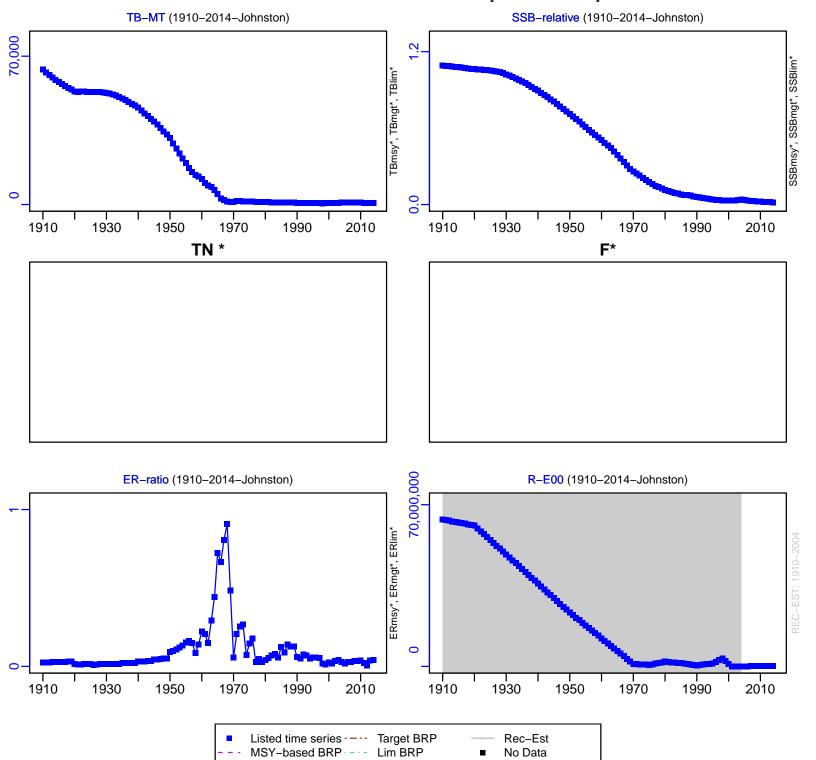
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2014	56,583		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2014	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	621	Males	-
SSB	SSB-relative	2014	0.015	Females	-
TN	-	-	-	-	-
R	R-E00	2014	96,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.037	-	-
TC	TC-MT	2014	23		
TL	TL-MT	2014	23		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

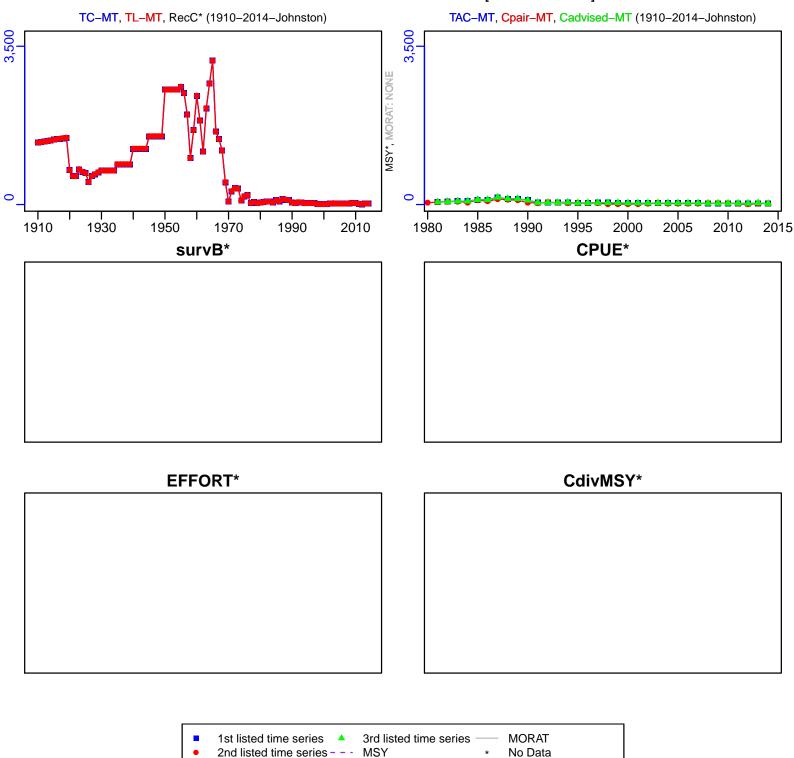


Start Year • End Year * No Data

West coast rock lobster South Africa Areas 1-2 [CRLOBSTERSA12]



West coast rock lobster South Africa Areas 1-2 [CRLOBSTERSA12]

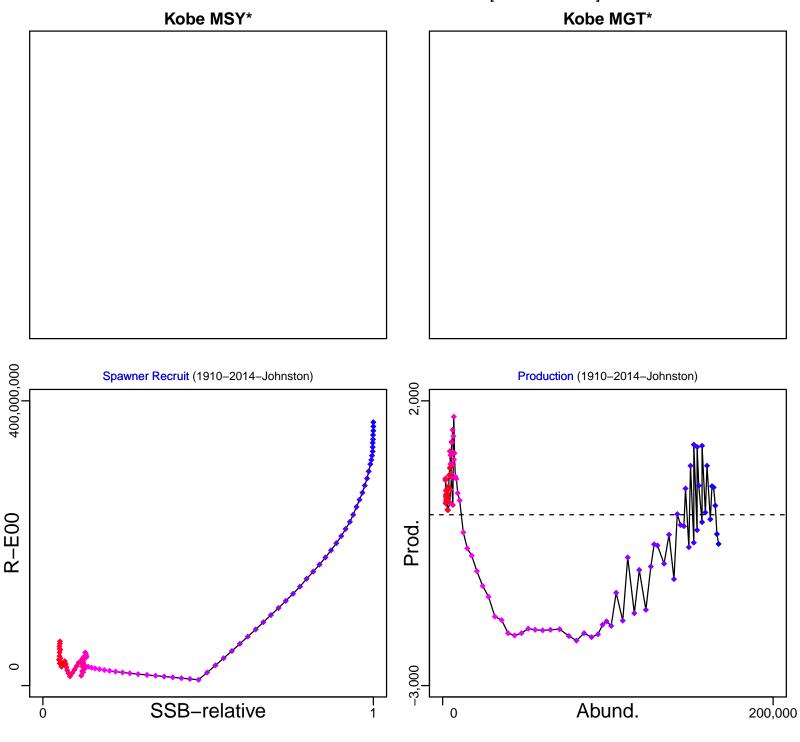


West coast rock lobster South Africa Areas 3-4 [CRLOBSTERSA34]

Metadata				
Scientific Name	Jasus lalandii			
Current Assess ID	MARAM-CRLOBSTERSA34-1910-2014-Johnston			
Area	South Africa Areas 3-4			
Management Authority	South African national management, Fisheries Branch of			
	Department of Agriculture, Forestry and Fisheries			
Assessor	Assessor Marine Resource Assessment and Management Group, Departmen			
	Mathematics and Applied Mathematics, University of Cape Town,			
	Rondebosch, 7701, South Africa			
Asmts in RAM	2012, 2014			

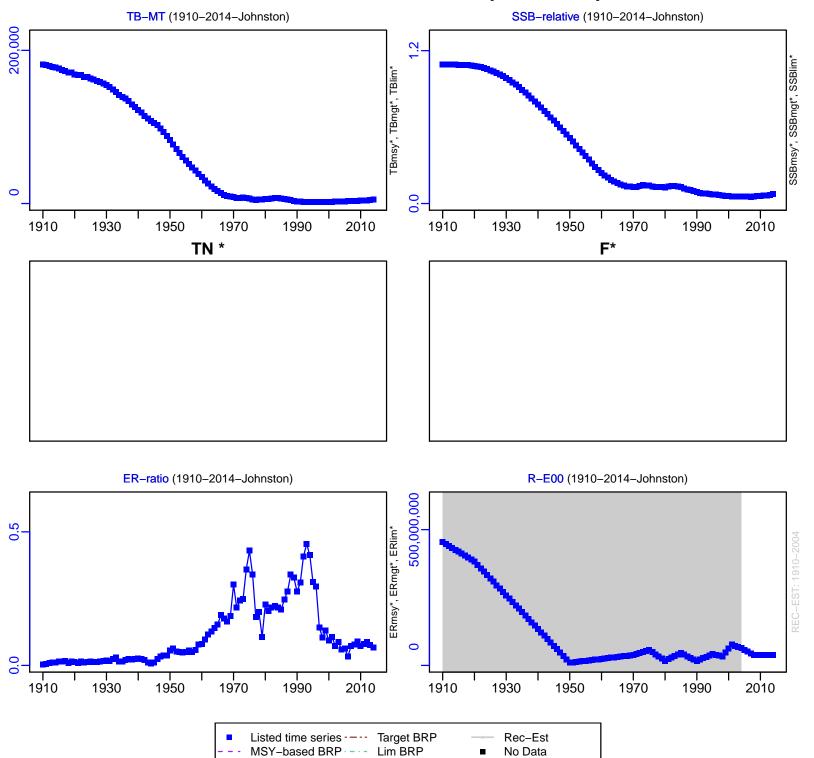
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2014	166,501		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2014	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	4860	Males	-
SSB	SSB-relative	2014	0.067	Females	-
TN	-	-	-	-	-
R	R-E00	2014	31,200,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.054	-	-
TC	TC-MT	2014	262		
TL	TL-MT	2014	254		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

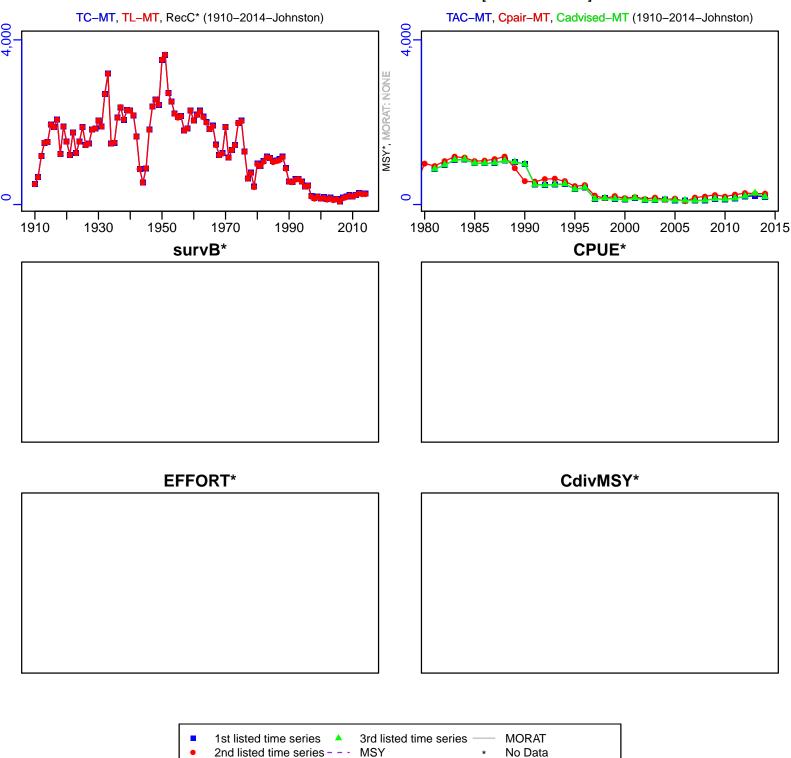


Start Year • End Year * No Data

West coast rock lobster South Africa Areas 3-4 [CRLOBSTERSA34]



West coast rock lobster South Africa Areas 3-4 [CRLOBSTERSA34]

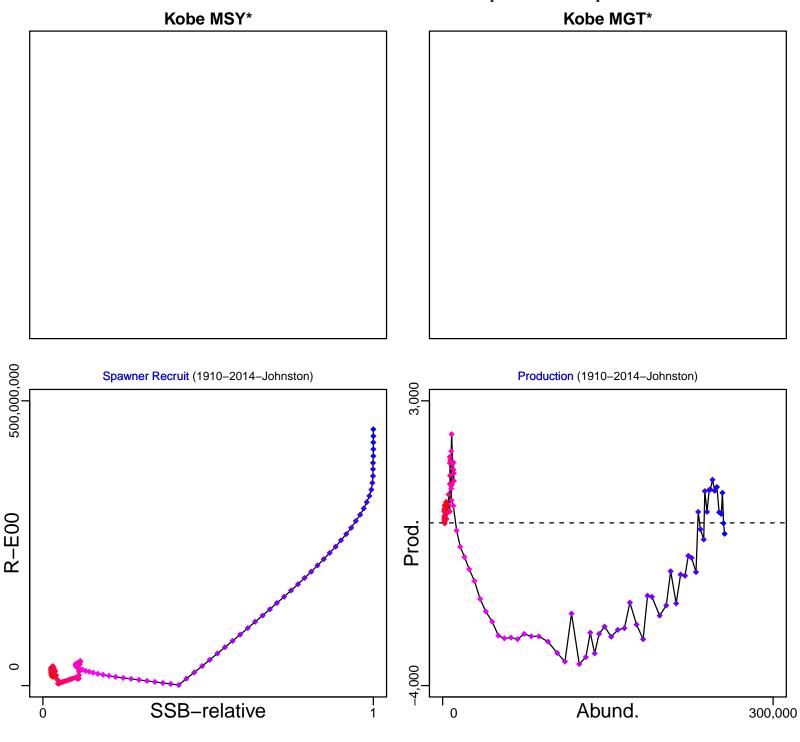


West coast rock lobster South Africa Areas 5-6 [CRLOBSTERSA56]

Metadata				
Scientific Name	Jasus lalandii			
Current Assess ID	MARAM-CRLOBSTERSA56-1910-2014-Johnston			
Area	South Africa Areas 5-6			
Management Authority	South African national management, Fisheries Branch of			
	Department of Agriculture, Forestry and Fisheries			
Assessor Marine Resource Assessment and Management Group, Department				
	Mathematics and Applied Mathematics, University of Cape Town,			
	Rondebosch, 7701, South Africa			
Asmts in RAM	2012, 2014			

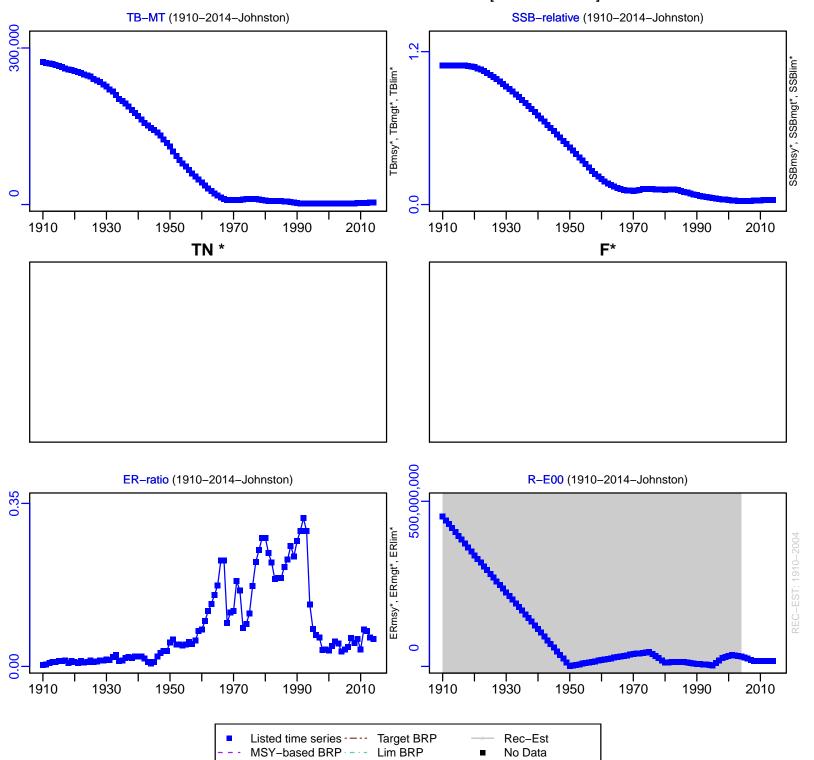
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2014	255,837		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2014	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	3590	Males	-
SSB	SSB-relative	2014	0.034	Females	-
TN	-	-	-	-	-
R	R-E00	2014	16,200,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.057	-	-
TC	TC-MT	2014	206		
TL	TL-MT	2014	198		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

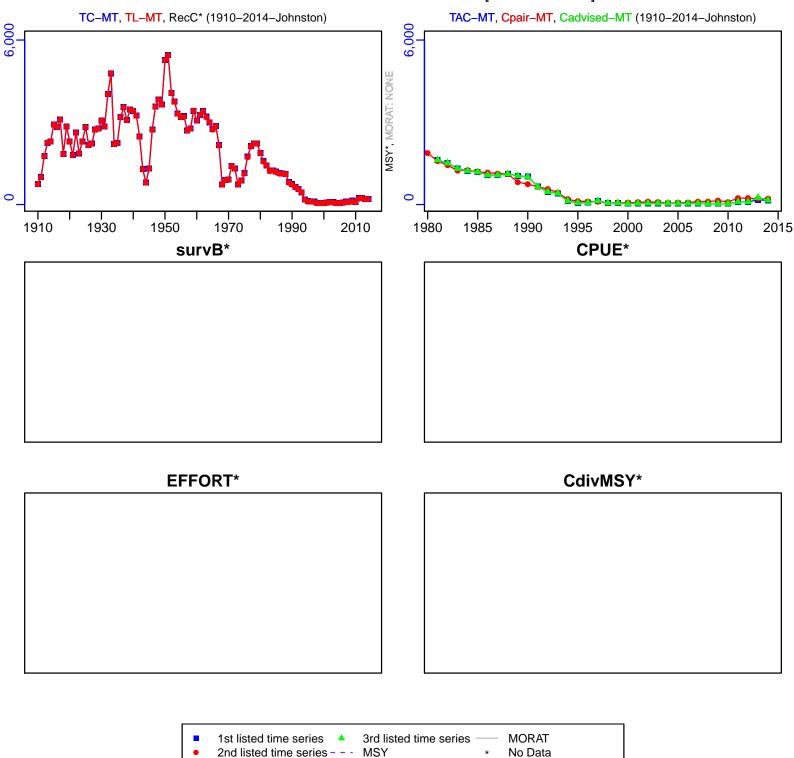


Start Year • End Year * No Data

West coast rock lobster South Africa Areas 5-6 [CRLOBSTERSA56]



West coast rock lobster South Africa Areas 5-6 [CRLOBSTERSA56]

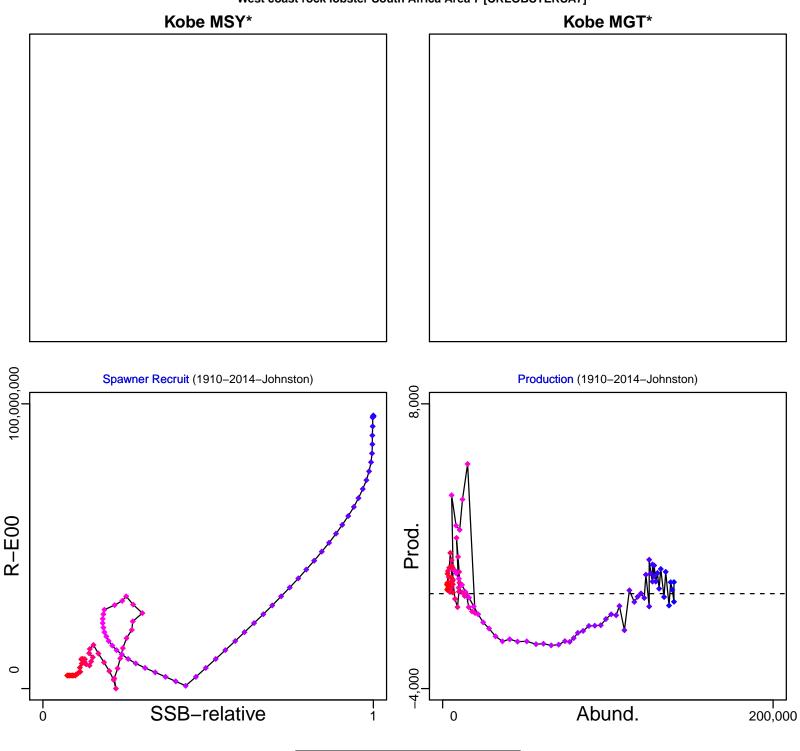


West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]

Metadata				
Scientific Name	Jasus lalandii			
Current Assess ID	MARAM-CRLOBSTERSA7-1910-2014-Johnston			
Area	South Africa Area 7			
Management Authority	South African national management, Fisheries Branch of			
	Department of Agriculture, Forestry and Fisheries			
Assessor Marine Resource Assessment and Management Group, Department				
	Mathematics and Applied Mathematics, University of Cape Town,			
	Rondebosch, 7701, South Africa			
Asmts in RAM	2012, 2014			

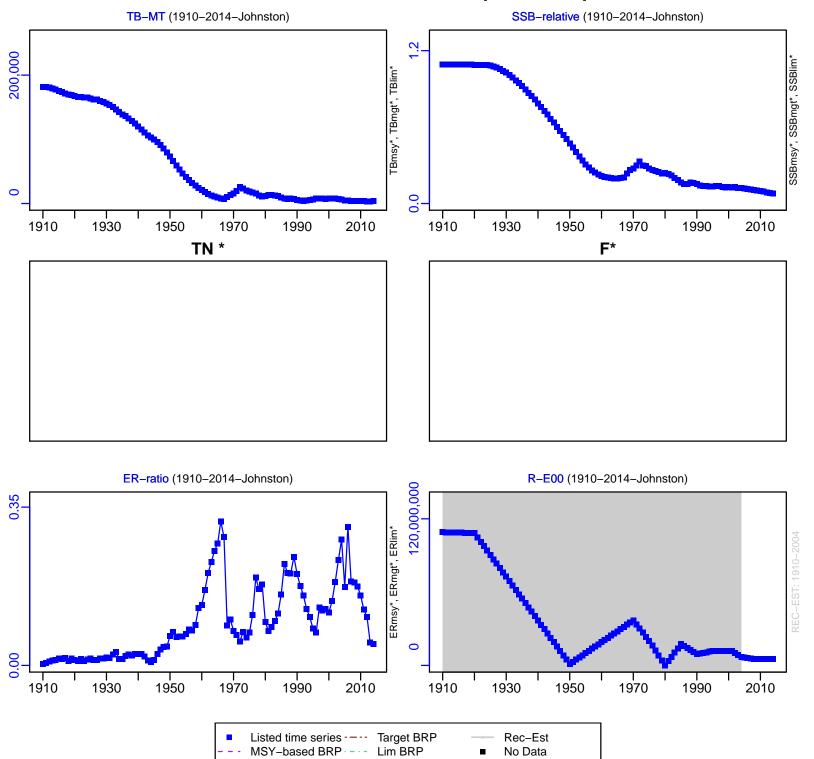
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2014	116,689		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2014	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	2860	Males	-
SSB	SSB-relative	2014	0.074	Females	-
TN	-	-	-	-	-
R	R-E00	2014	4,590,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.045	-	-
TC	TC-MT	2014	129		
TL	TL-MT	2014	80		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

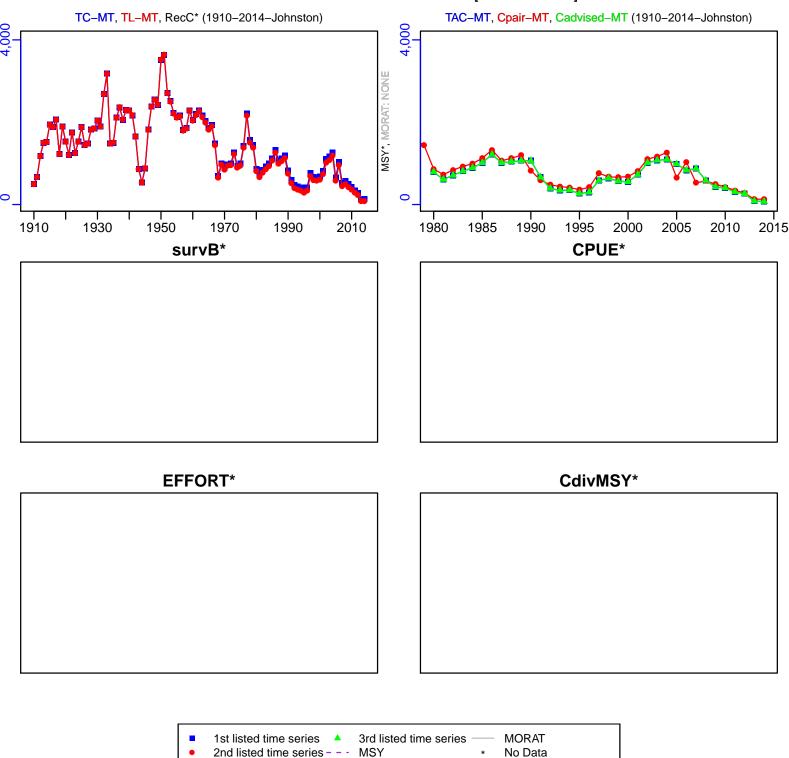


Start Year • End Year * No Data

West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]



West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]

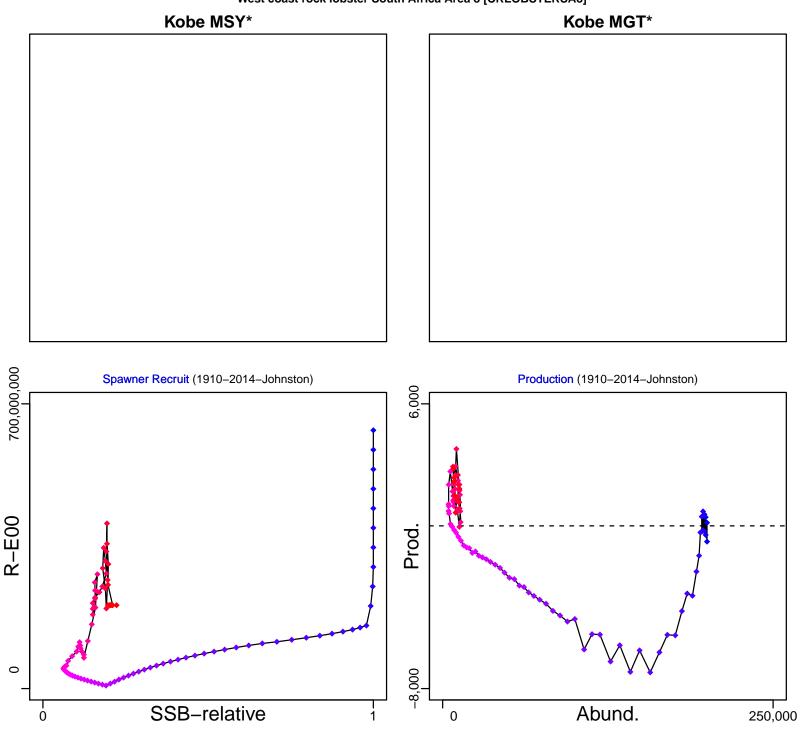


West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]

Metadata				
Scientific Name	Jasus lalandii			
Current Assess ID	MARAM-CRLOBSTERSA8-1910-2014-Johnston			
Area	South Africa Area 8			
Management Authority	South African national management, Fisheries Branch of			
	Department of Agriculture, Forestry and Fisheries			
Assessor	Ssessor Marine Resource Assessment and Management Group, Department			
	Mathematics and Applied Mathematics, University of Cape Town,			
	Rondebosch, 7701, South Africa			
Asmts in RAM	2012, 2014			

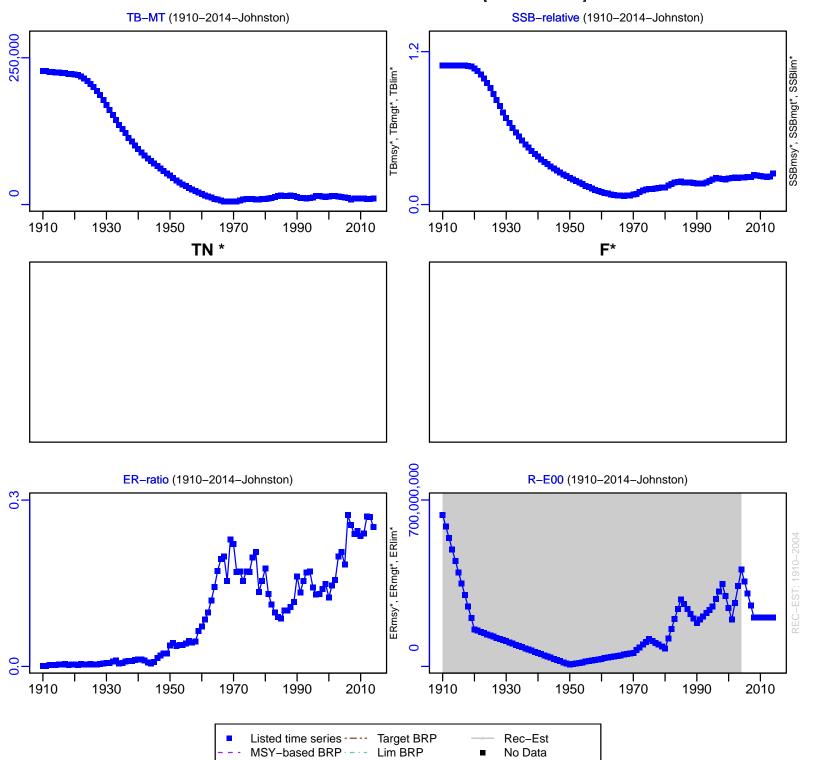
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2014	199,707		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2014	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2014	8860	Males	-		
SSB	SSB-relative	2014	0.223	Females	-		
TN	-	-	-	-	-		
R	R-E00	2014	2.05×10^{8}	-	-		
F	-	-	-	-	-		
ER	ER-ratio	2014	0.251	-	-		
TC	TC-MT	2014	2220				
TL	TL-MT	2014	1500				
TB/TBmsy	-	-	-				
SSB/SSBmsy	-	-	-				
F/Fmsy	-	-	-				
ER/ERmsy	-	-	-				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

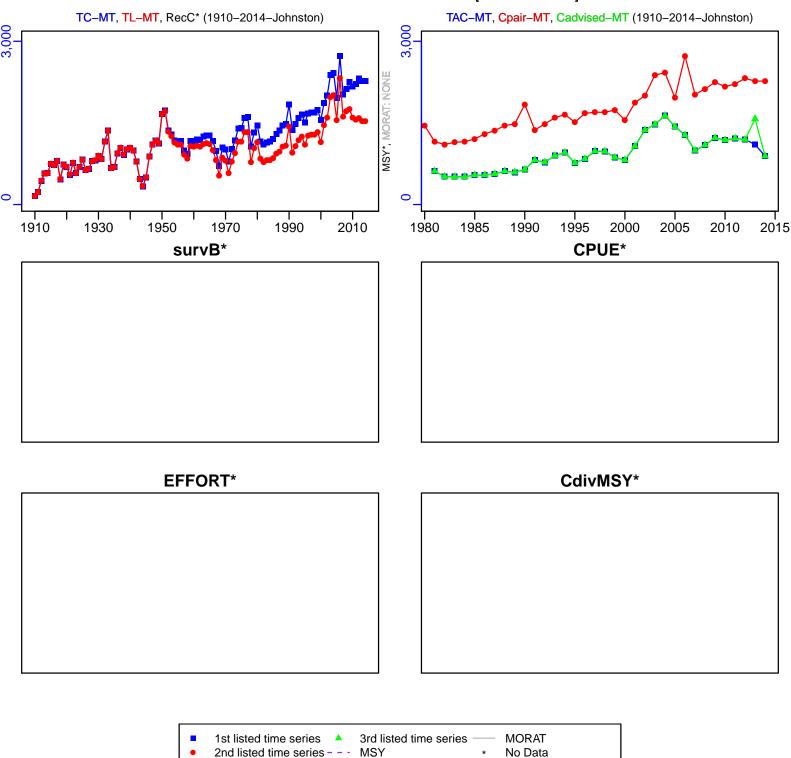


Start Year • End Year * No Data

West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]



West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]

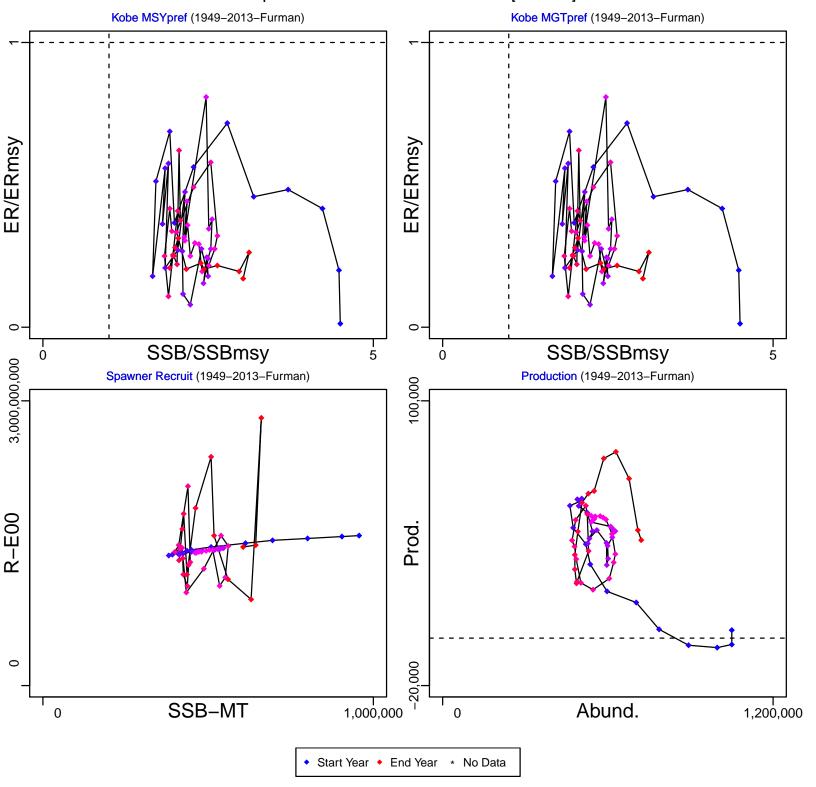


Cape horse mackerel South Africa South coast [CTRACSA]

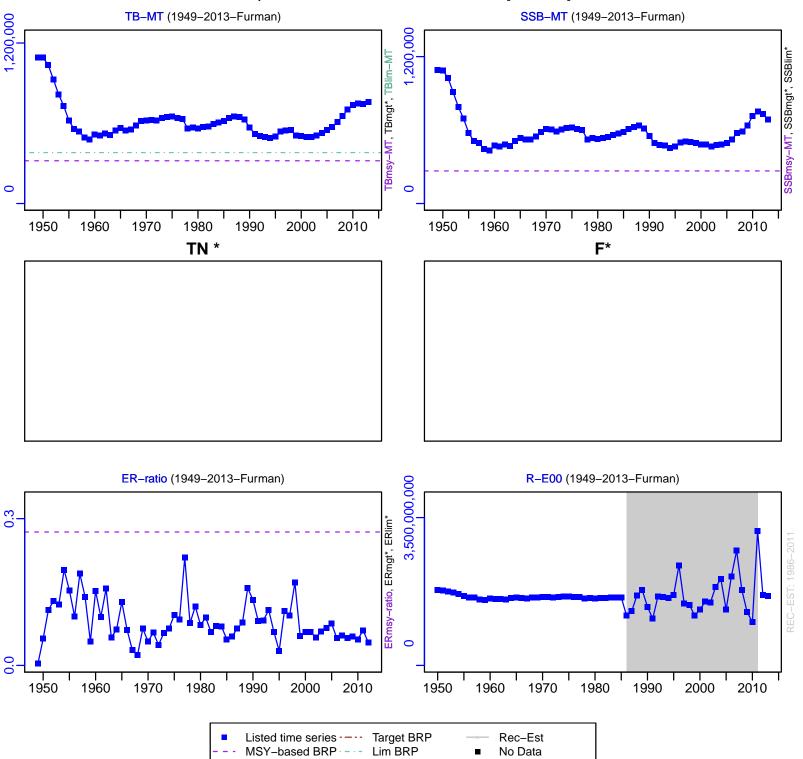
Metadata				
Scientific Name	Trachurus capensis			
Current Assess ID	MARAM-CTRACSA-1949-2013-Furman			
Area	South Africa South coast			
Management Authority	ority South African national management, Fisheries Branch of			
	Department of Agriculture, Forestry and Fisheries			
Assessor	Marine Resource Assessment and Management Group, Department of			
	Mathematics and Applied Mathematics, University of Cape Town,			
	Rondebosch, 7701, South Africa			
Asmts in RAM	2013			

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2013	307,654		
SSBmsy	SSBmsy-MT	2013	234,635		
Fmsy	Fmsy-1/yr	2013	0.19		
ERmsy	ERmsy-ratio	2013	0.24		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2013	1,052,609		
SSB0	SSB0-MT	2013	960,562		
MSY	MSY-MT	2013	72,924		
М	M-1/yr	2013	0.3		
TBlim	TBlim-MT	2013	366,474		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

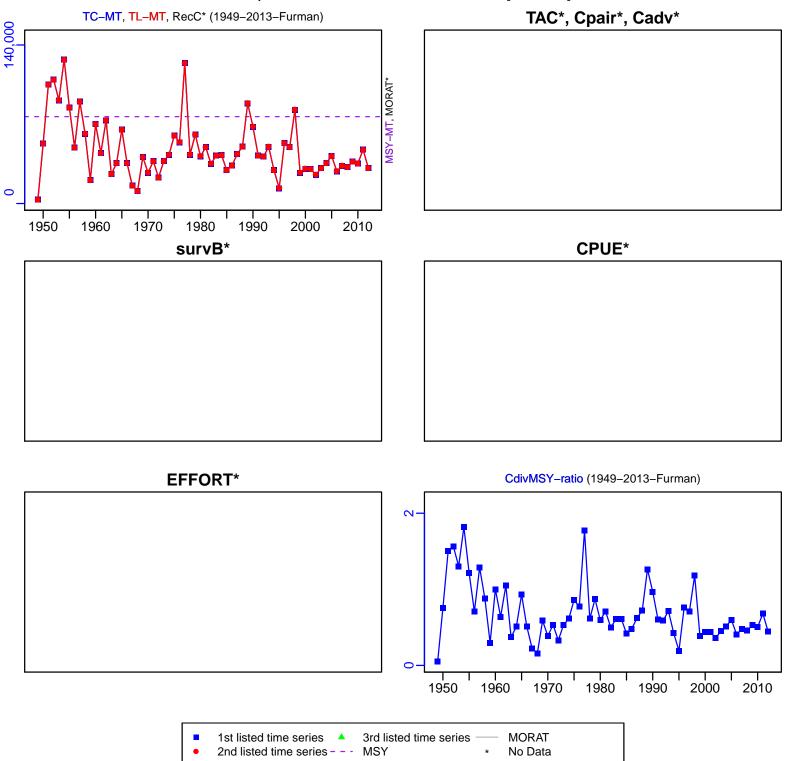
Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2013	731,000	-	0+	
SSB	SSB-MT	2013	606,000	Both	3+	
TN	-	-	-	-	-	
R	R-E00	2013	1.46×10^{9}	-	0	
F	-	-	-	-	-	
ER	ER-ratio	2013	0.041	-	-	
TC	TC-MT	2013	29,700			
TL	TL-MT	2013	29,700			
TB/TBmsy	TBdivTBmsy-dimensionless	2013	2.48			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2013	2.85			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2013	0.171			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			



Cape horse mackerel South Africa South coast [CTRACSA]



Cape horse mackerel South Africa South coast [CTRACSA]

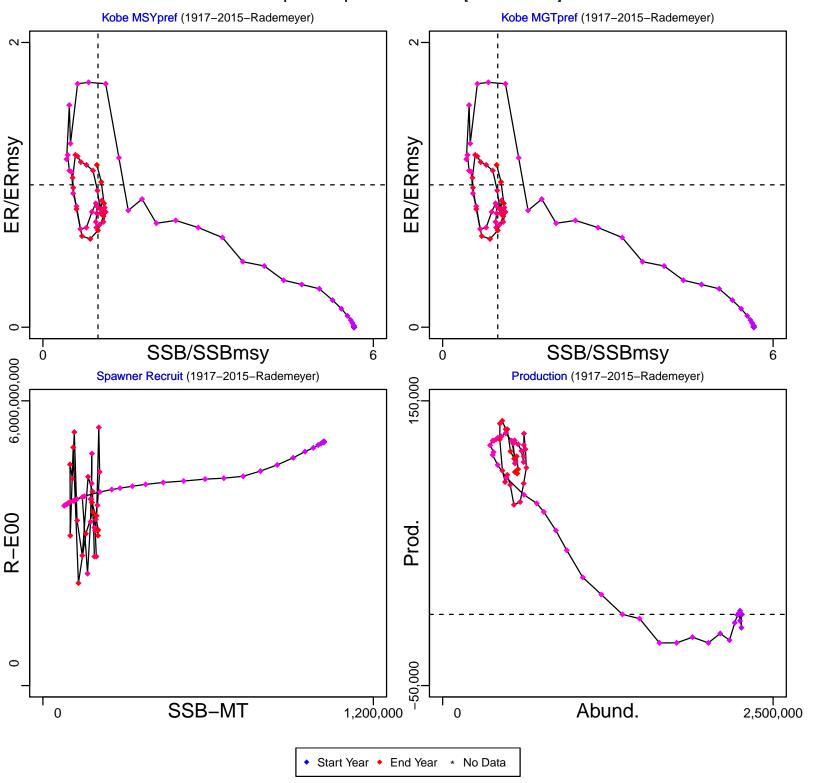


Deep-water cape hake South Africa [DEEPCHAKESA]

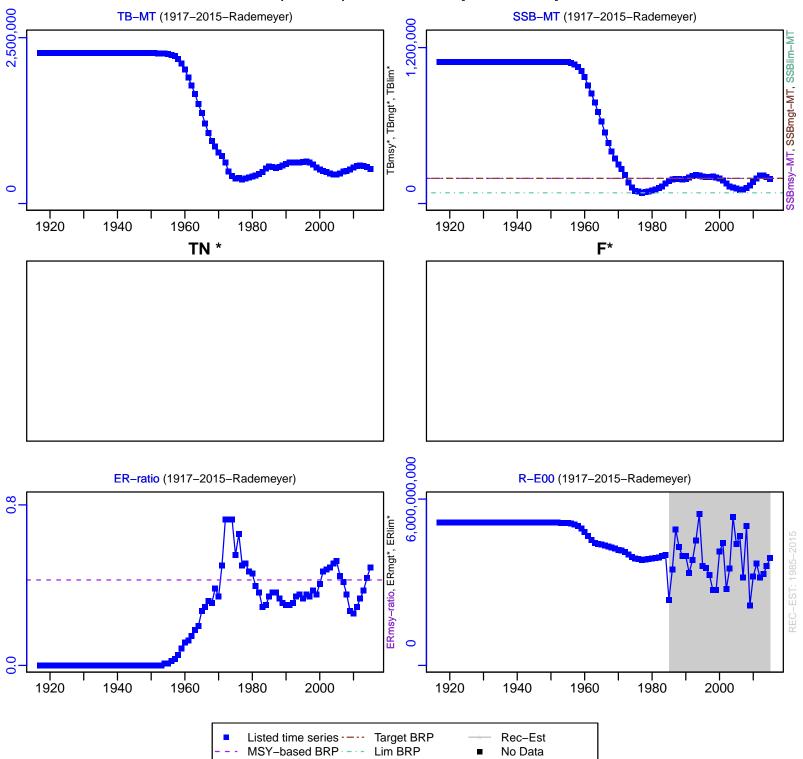
	Metadata				
Scientific Name	Merluccius paradoxus				
Current Assess ID MARAM-DEEPCHAKESA-1917-2015-Rademeyer					
Area	Area South Africa				
Management Authority South African national management, Fisheries Branch of					
	Department of Agriculture, Forestry and Fisheries				
Assessor	Assessor Marine Resource Assessment and Management Group, Department				
	Mathematics and Applied Mathematics, University of Cape Town,				
	Rondebosch, 7701, South Africa				
Asmts in RAM	2013, 2015				

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2015	181,000		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2015	0.41		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2015	181,000		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2015	2,256,000		
SSB0	SSB0-MT	2015	1,023,000		
MSY	MSY-MT	2015	118,900		
М	M-1/yr	2015	0.717		
TBlim	TBlim-MT	2013	60,000		
SSBlim	SSBlim-MT	2015	77,200		
Flim	-	-	-		
ERlim	-	-	-		

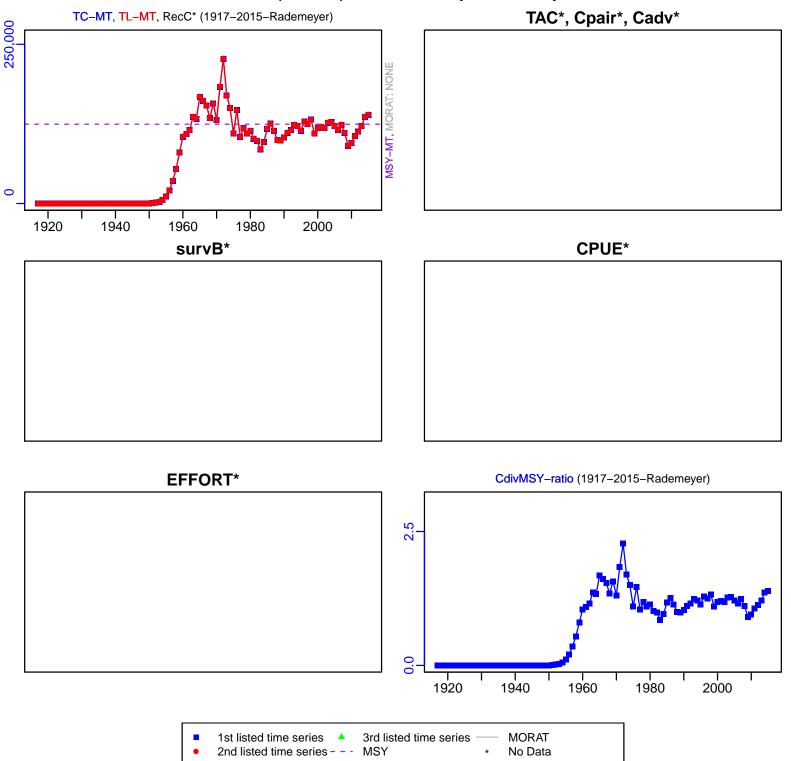
	Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2015	517,000	-	0+	
SSB	SSB-MT	2015	178,000	Females	4	
TN	-	-	-	-	-	
R	R-E00	2015	3.86×10^{9}	-	0	
F	-	-	-	-	-	
ER	ER-ratio	2015	0.47	-	-	
TC	TC-MT	2015	133,000			
TL	TL-MT	2015	133,000			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	0.98			
F/Fmsy	-	-	-			
ER/ERmsy	ERdivERmsy-dimensionless	2015	1.14			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.983			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			



Deep-water cape hake South Africa [DEEPCHAKESA]



Deep-water cape hake South Africa [DEEPCHAKESA]

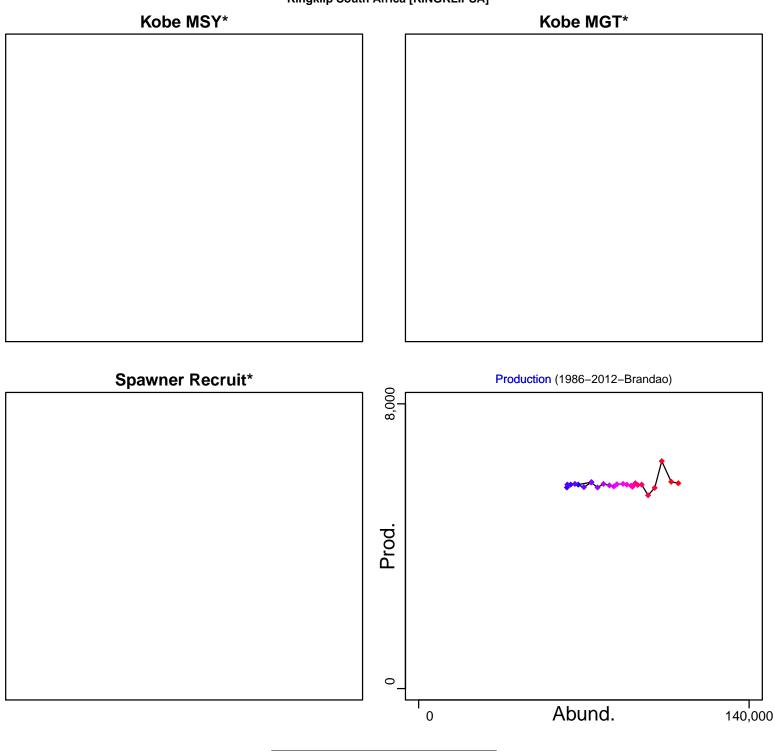


Kingklip South Africa [KINGKLIPSA]

Metadata					
Scientific Name	Genypterus capensis				
Current Assess ID	MARAM-KINGKLIPSA-1986-2012-Brandao				
Area	Area South Africa				
Management Authority South African national management, Fisheries Branch of					
	Department of Agriculture, Forestry and Fisheries				
Assessor Marine Resource Assessment and Management Group, Department					
	Mathematics and Applied Mathematics, University of Cape Town,				
	Rondebosch, 7701, South Africa				
Asmts in RAM	2012				

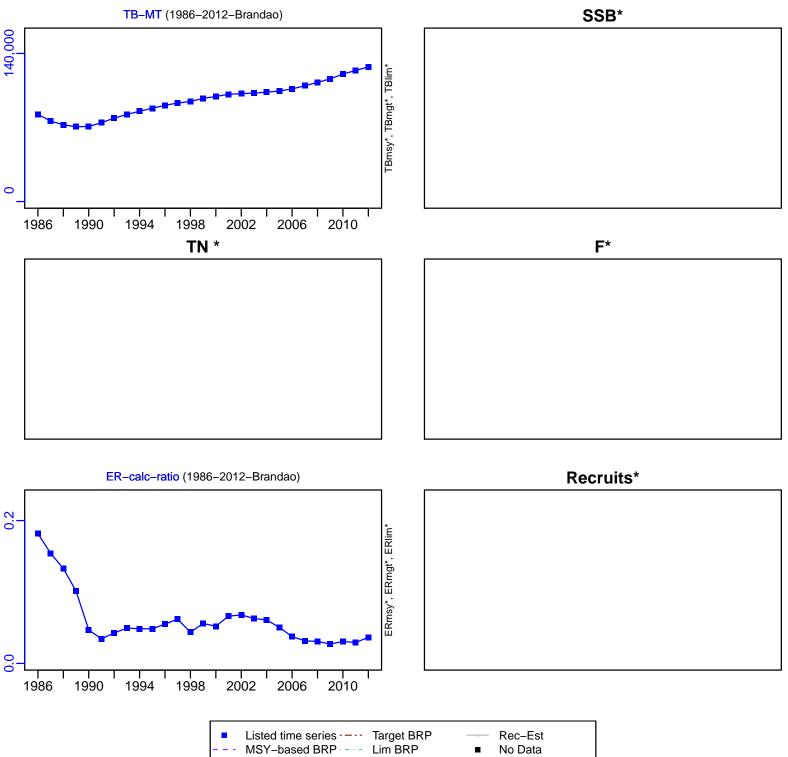
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2012	85,311		
SSB0	-	-	-		
MSY	MSY-MT	2012	5855		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	113,000	-	0+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.031	-	-
TC	TC-MT	2012	3520		
TL	TL-MT	2012	3520]	
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



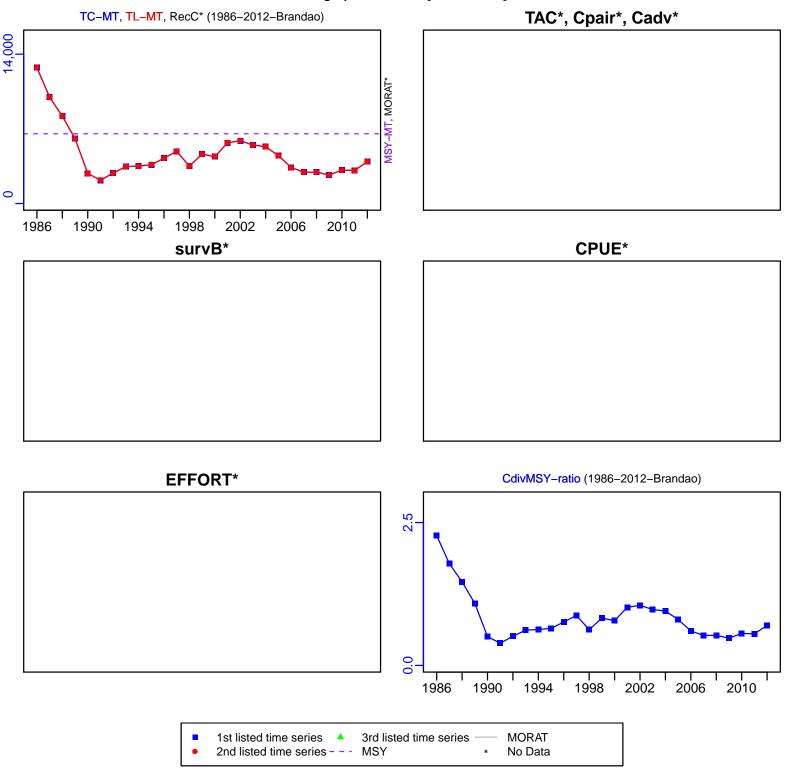
Start Year ◆ End Year * No Data

Kingklip South Africa [KINGKLIPSA]



No Data

Kingklip South Africa [KINGKLIPSA]



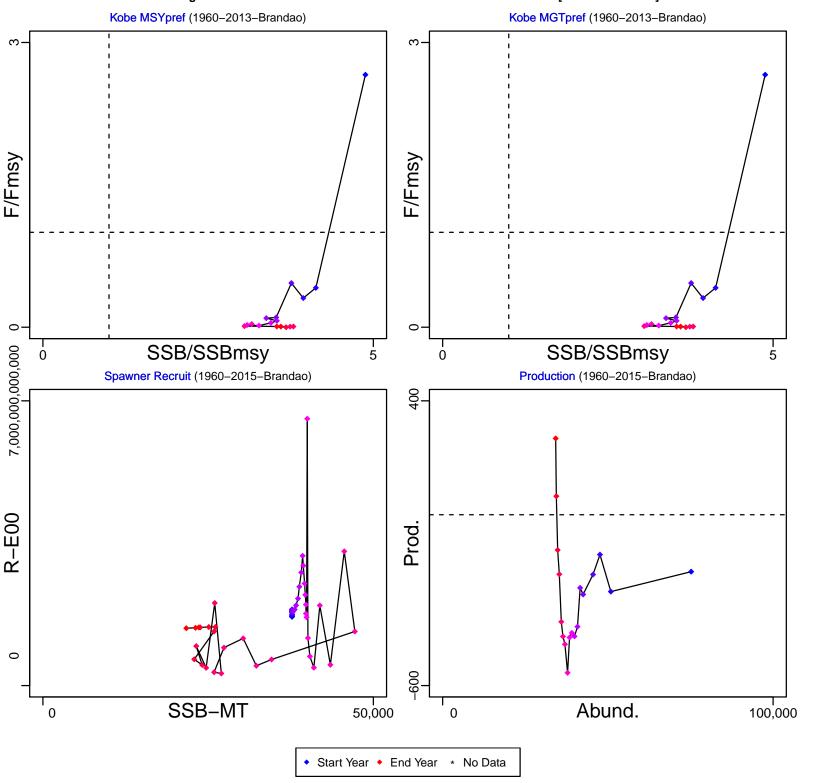
Patagonian toothfish South Africa Subantarctic Prince Edward Islands [PTOOTHFISHPEI]

Metadata					
Scientific Name	Dissostichus eleginoides				
Current Assess ID MARAM-PTOOTHFISHPEI-1960-2015-Brandao					
Area	Area South Africa Subantarctic Prince Edward Islands				
Management Authority South African national management, Fisheries Branch of					
	Department of Agriculture, Forestry and Fisheries				
Assessor Marine Resource Assessment and Management Group, Department					
	Mathematics and Applied Mathematics, University of Cape Town,				
	Rondebosch, 7701, South Africa				
Asmts in RAM	2013, 2015				

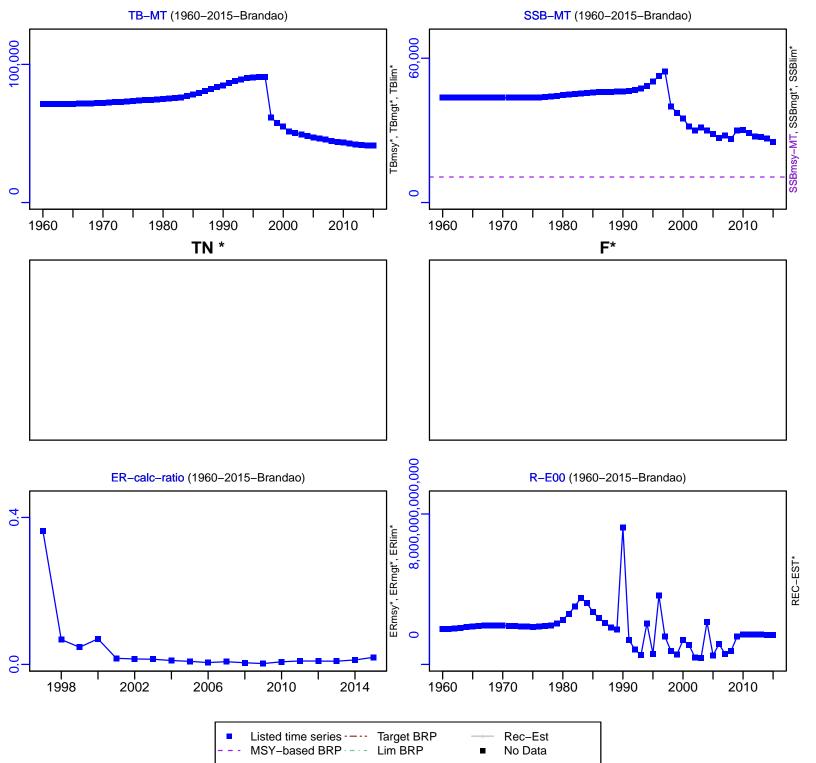
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2015	9180	
Fmsy	Fmsy-1/yr	2015	0.12	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2015	59,165	
SSB0	SSB0-MT	2015	37,662	
MSY	MSY-MT	2015	1514	
M	M-1/yr	2015	0.13	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

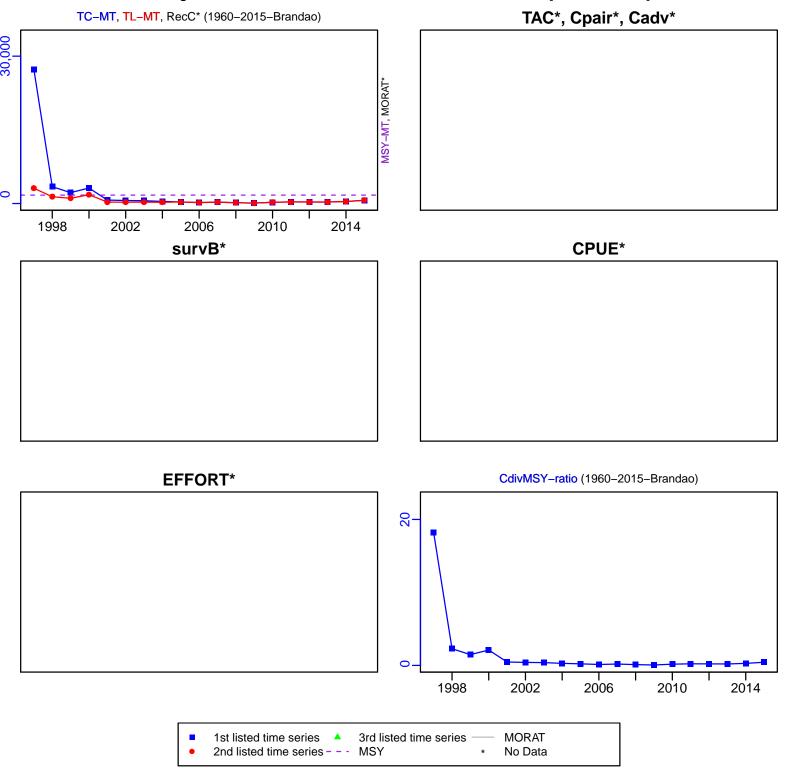
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	34,100	-	0+
SSB	SSB-MT	2015	21,700	-	13+
TN	-	-	-	-	-
R	R-E00	2015	1.41×10^{12}	-	6
F	-	-	-	-	-
ER	ER-calc-ratio	2015	0.017	-	-
TC	TC-MT	2015	575		
TL	TL-MT	2015	575		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	2.36		
F/Fmsy	FdivFmsy-dimensionless	2013	0.006		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Patagonian toothfish South Africa Subantarctic Prince Edward Islands [PTOOTHFISHPEI]



Patagonian toothfish South Africa Subantarctic Prince Edward Islands [PTOOTHFISHPEI]



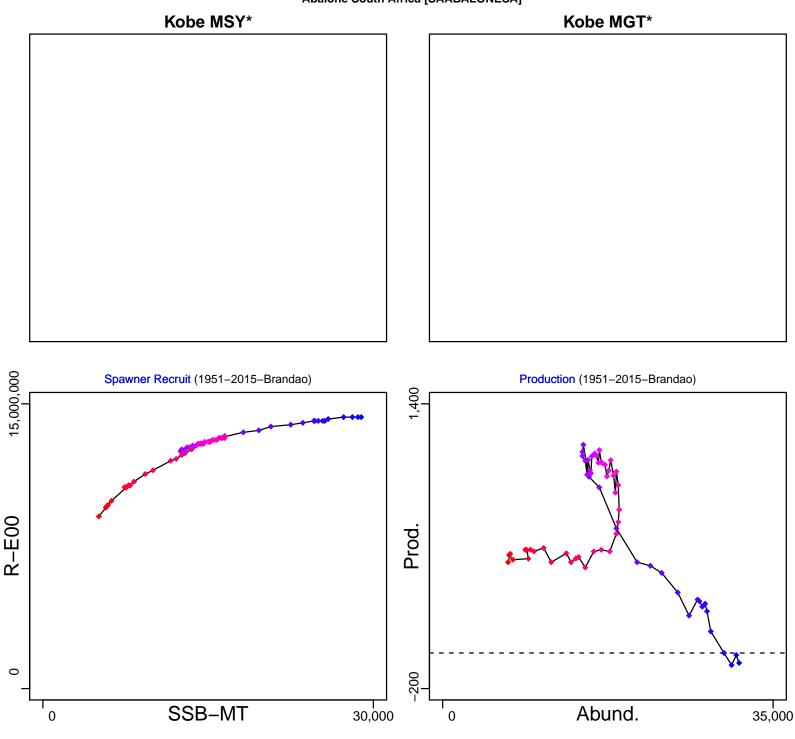


Abalone South Africa [SAABALONESA]

	Metadata			
Scientific Name	Haliotis midae			
Current Assess ID	MARAM-SAABALONESA-1951-2015-Brandao			
Area	South Africa			
Management Authority South African national management, Fisheries Branch of				
Department of Agriculture, Forestry and Fisheries				
Assessor Marine Resource Assessment and Management Group, Department				
	Mathematics and Applied Mathematics, University of Cape Town,			
	Rondebosch, 7701, South Africa			
Asmts in RAM	2013, 2015			

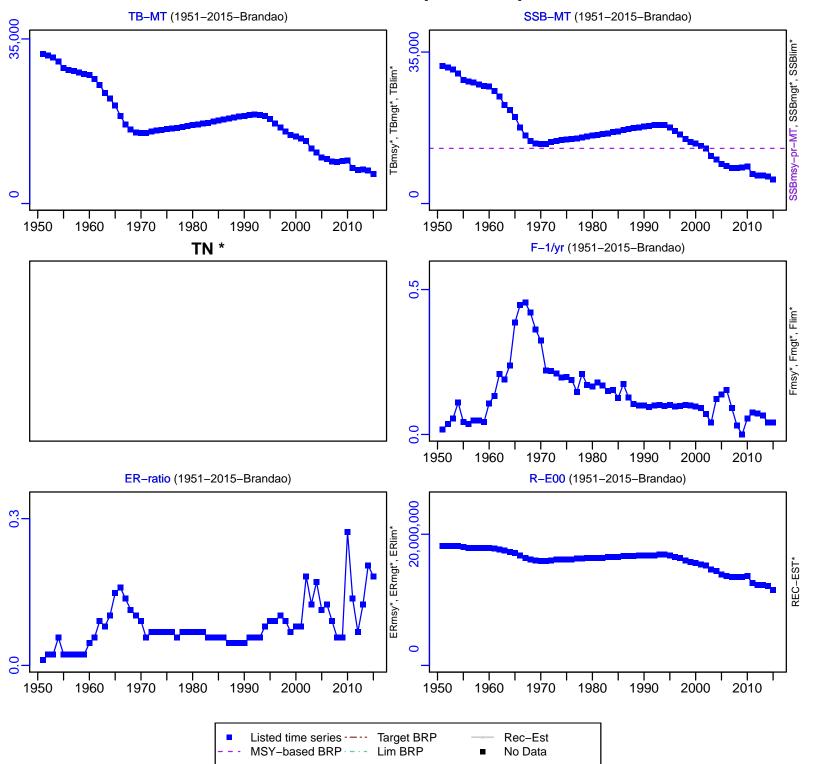
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-pr-MT	2015	11,575	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2015	31,391	
SSB0	SSB0-MT	2015	28,937	
MSY	-	-	-	
М	M-1/yr	2015	0.15	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2015	6210	-	1+	
SSB	SSB-MT	2015	5080	-	7+	
TN	-	-	-	-	-	
R	R-E00	2015	9,070,000	-	8	
F	F-1/yr	2015	0.035	-	-	
ER	ER-ratio	2015	0.16	-	-	
TC	TC-MT	2015	985			
TL	TL-MT	2015	50			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2015	0.439			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

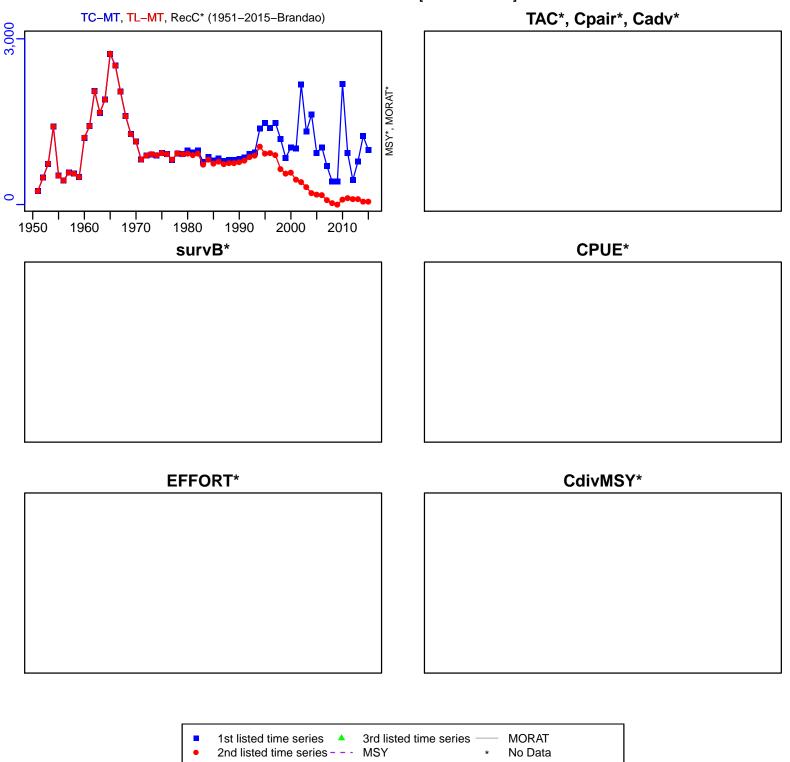


Start Year • End Year * No Data

Abalone South Africa [SAABALONESA]



Abalone South Africa [SAABALONESA]

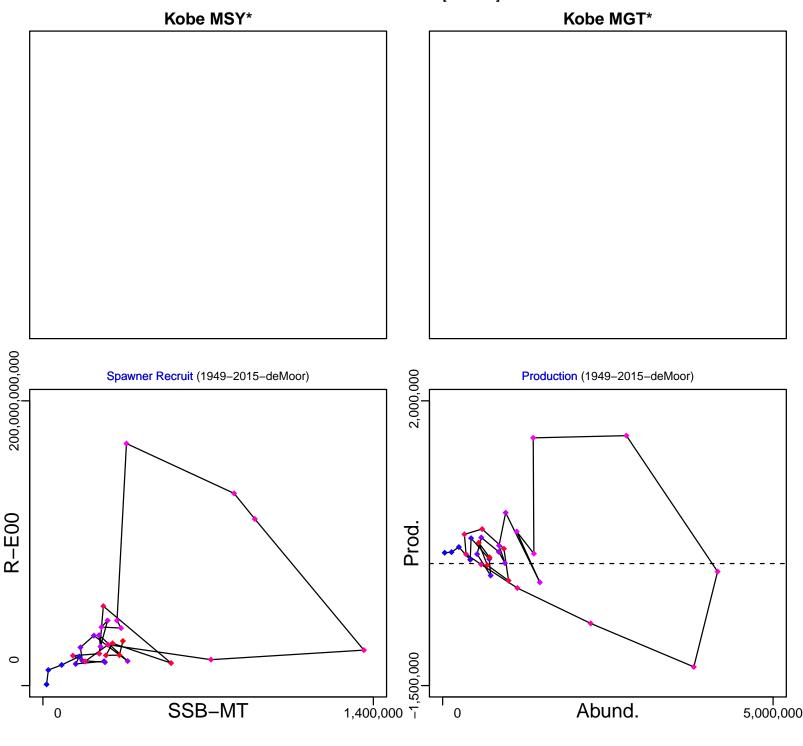


Sardine South Africa [SARDSA]

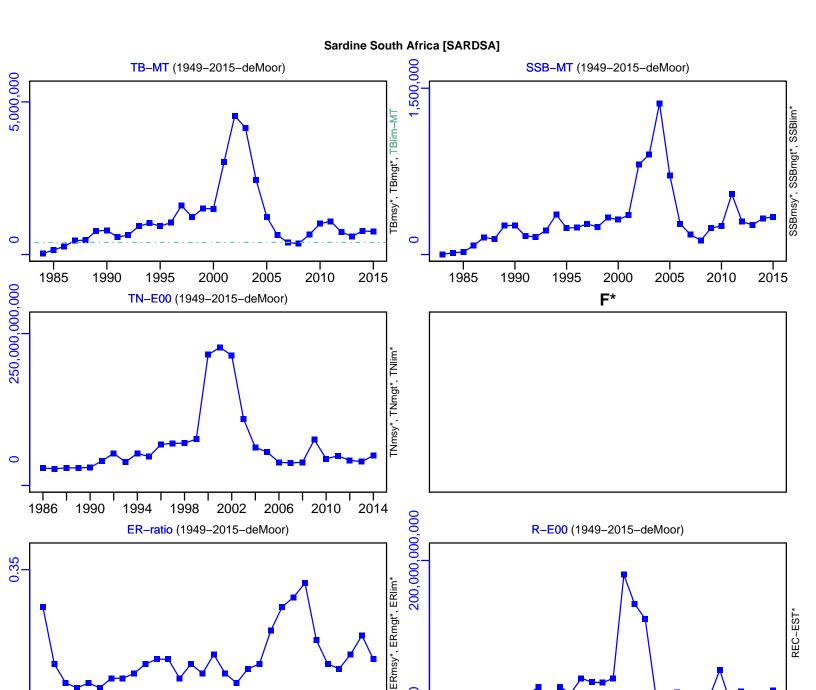
Metadata			
Scientific Name	Sardinops sagax		
Current Assess ID	MARAM-SARDSA-1949-2015-deMoor		
Area	South Africa		
Management Authority			
	Department of Agriculture, Forestry and Fisheries		
Assessor	Marine Resource Assessment and Management Group, Department of		
	Mathematics and Applied Mathematics, University of Cape Town,		
	Rondebosch, 7701, South Africa		
Asmts in RAM	2015, 2011		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2015	1,122,314	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2015	0.9	
TBlim	TBlim-MT	2015	361,990	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	688,000	Both	0+
SSB	SSB-MT	2015	339,000	Both	0+
TN	TN-E00	2015	4.47×10^{10}	Both	0+
R	R-E00	2015	3.13×10^{10}	Both	-
F	-	-	-	-	-
ER	ER-ratio	2015	0.12	Both	0+
TC	TC-MT	2015	96,300		
TL	TL-MT	2015	96,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year • No Data

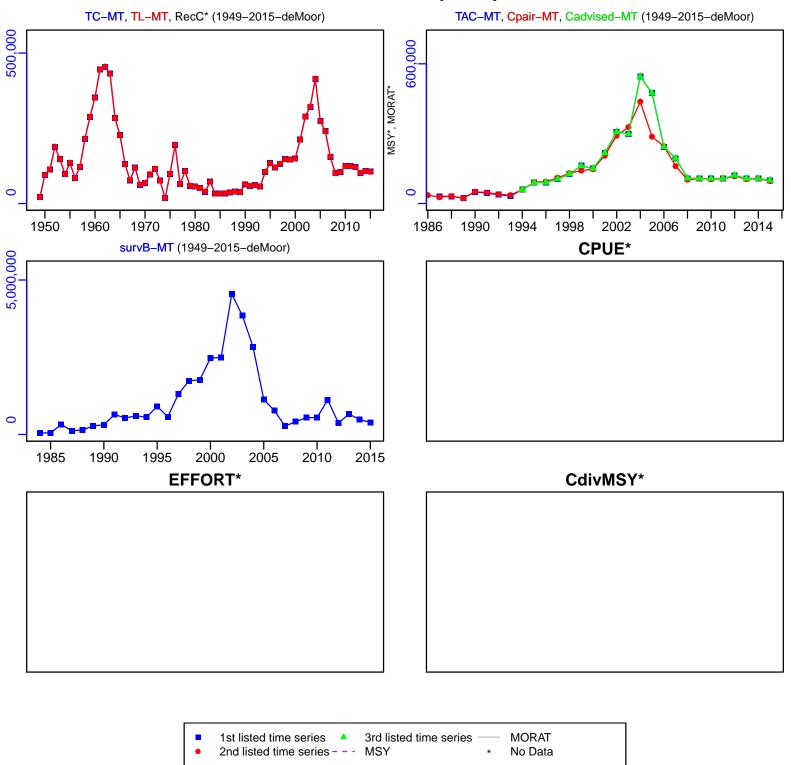


Rec-Est No Data

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Listed time series ---- Target BRP MSY-based BRP ---- Lim BRP

Sardine South Africa [SARDSA]

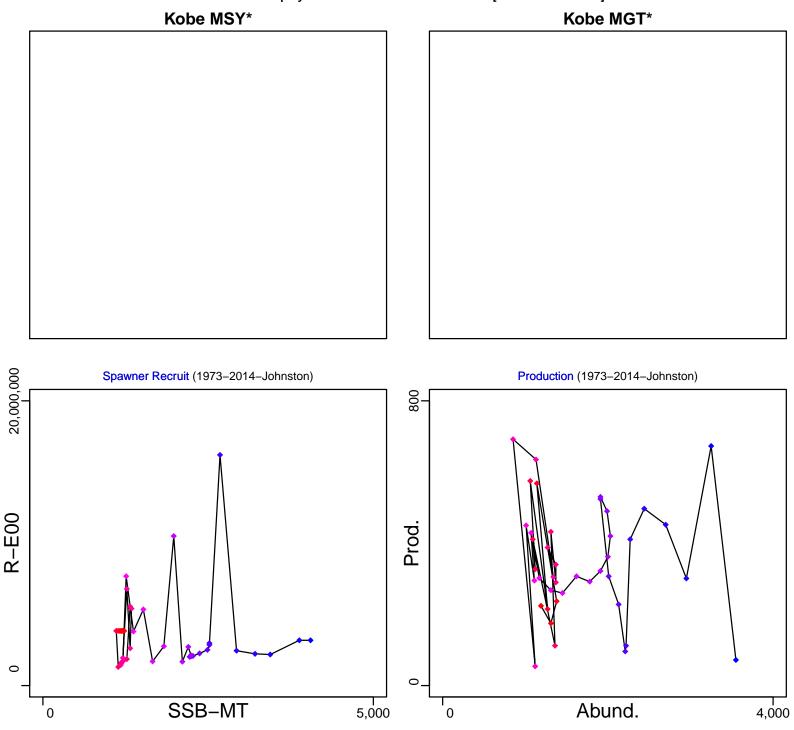


Southern spiny lobster South Africa South coast [SSLOBSTERSASC]

Metadata			
Scientific Name	Palinurus gilchristi		
Current Assess ID	MARAM-SSLOBSTERSASC-1973-2014-Johnston		
Area	South Africa South coast		
Management Authority			
	Department of Agriculture, Forestry and Fisheries		
Assessor	Marine Resource Assessment and Management Group, Department of		
	Mathematics and Applied Mathematics, University of Cape Town,		
	Rondebosch, 7701, South Africa		
Asmts in RAM	2012, 2014		

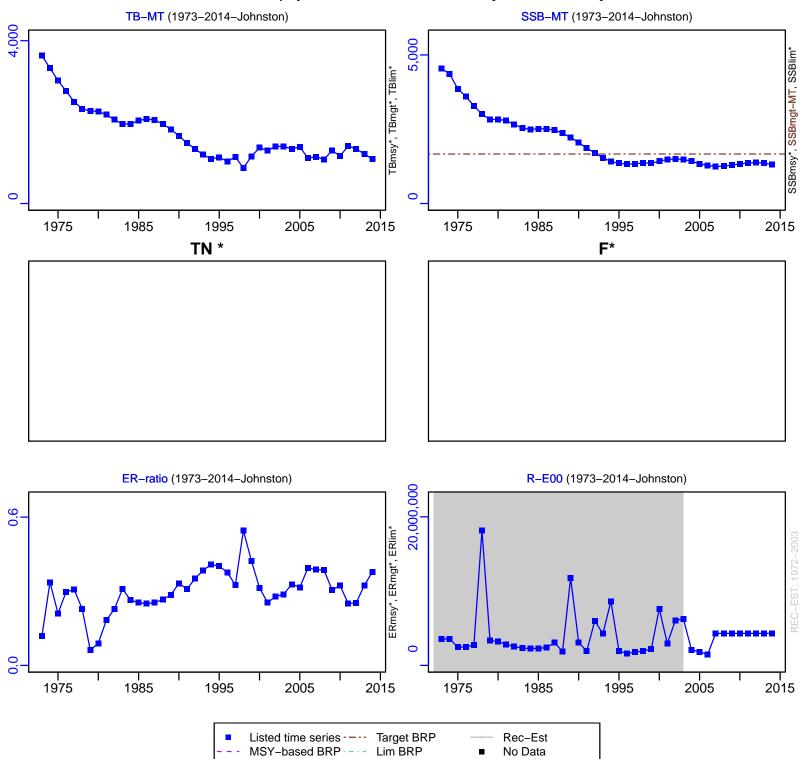
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	1484	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2014	4047	
MSY	-	-	-	
М	M-1/yr	2014	0.1	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	1070	-	-
SSB	SSB-MT	2014	1170	Females	-
TN	-	-	-	-	-
R	R-E00	2014	3,840,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.336	-	-
TC	TC-MT	2014	359		
TL	TL-MT	2014	359		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	0.788		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year ◆ End Year ∗ No Data

Southern spiny lobster South Africa South coast [SSLOBSTERSASC]



Southern spiny lobster South Africa South coast [SSLOBSTERSASC]

