# **South Africa Stocks**

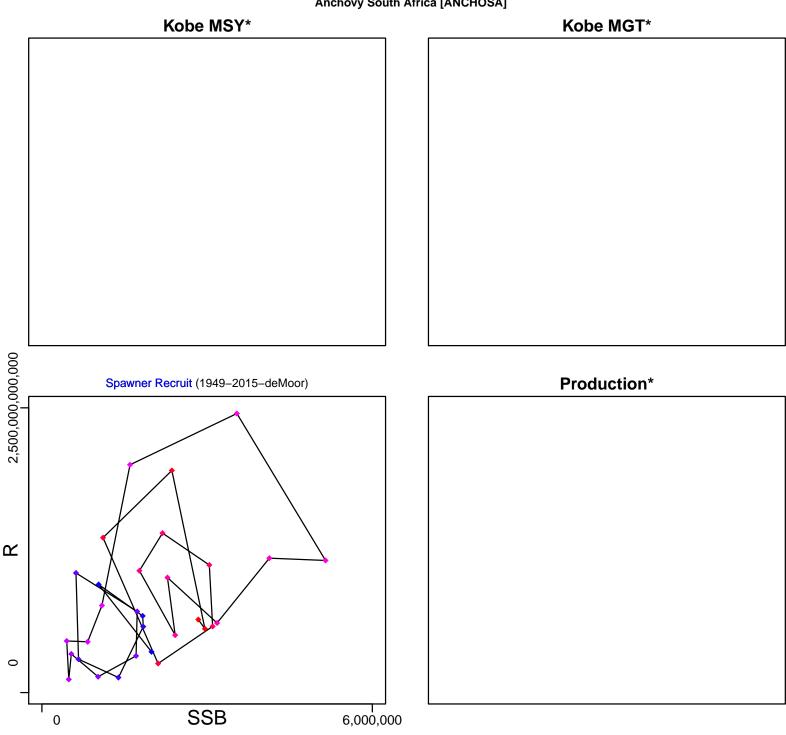
v4.25 (Jan-28-2018)

- 1. Anchovy South Africa [ANCHOSA]
- 2. Shallow-water cape hake South Africa [CHAKESA]
- 3. Cape Hope squid South Africa [CHSQUIDSA]
- 4. West coast rock lobster South Africa Areas 1-2 [CRLOBSTERSA12]
- 5. West coast rock lobster South Africa Areas 3-4 [CRLOBSTERSA34]
- 6. West coast rock lobster South Africa Areas 5-6 [CRLOBSTERSA56]
- 7. West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]
- 8. West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]
- 9. Cape horse mackerel South Africa South coast [CTRACSA]
- 10. Deep-water cape hake South Africa [DEEPCHAKESA]
- 11. Kingklip South Africa [KINGKLIPSA]
- 12. Patagonian toothfish South Africa Subantarctic Prince Edward Islands [PTOOTHFISHPEI]
- 13. Abalone South Africa [SAABALONESA]
- 14. Sardine South Africa [SARDSA]
- 15. Southern spiny lobster South Africa South coast [SSLOBSTERSASC]

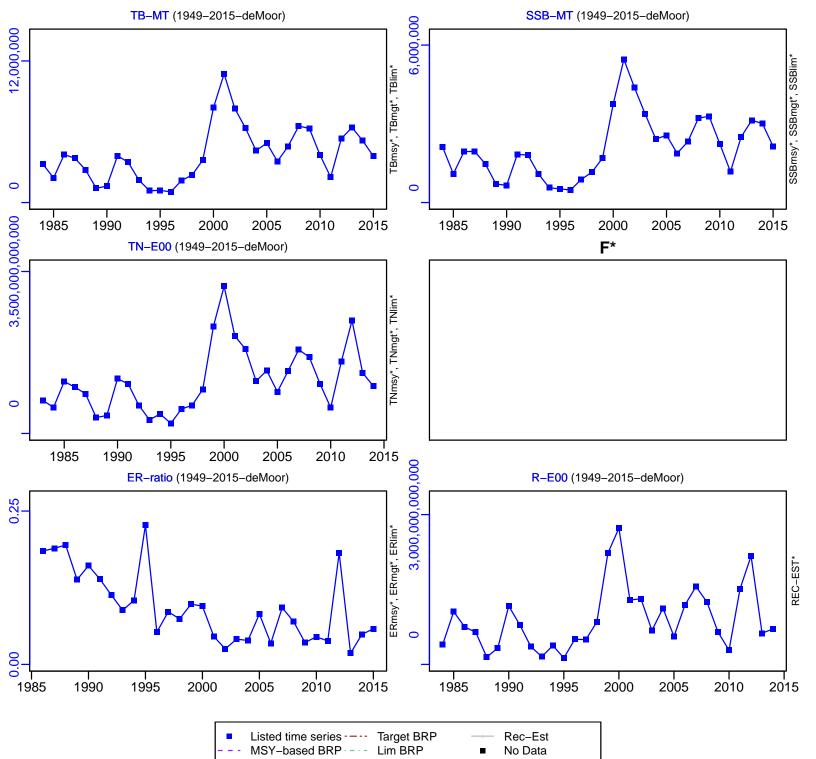
	Metadata				
Scientific Name	Engraulis encrasicolus				
Current Assess ID MARAM-ANCHOSA-1949-2015-deMoor					
Area	Area South Africa				
Management Authority South African national management, Fisheries Branch of					
	Department of Agriculture, Forestry and Fisheries				
Assessor Marine Resource Assessment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

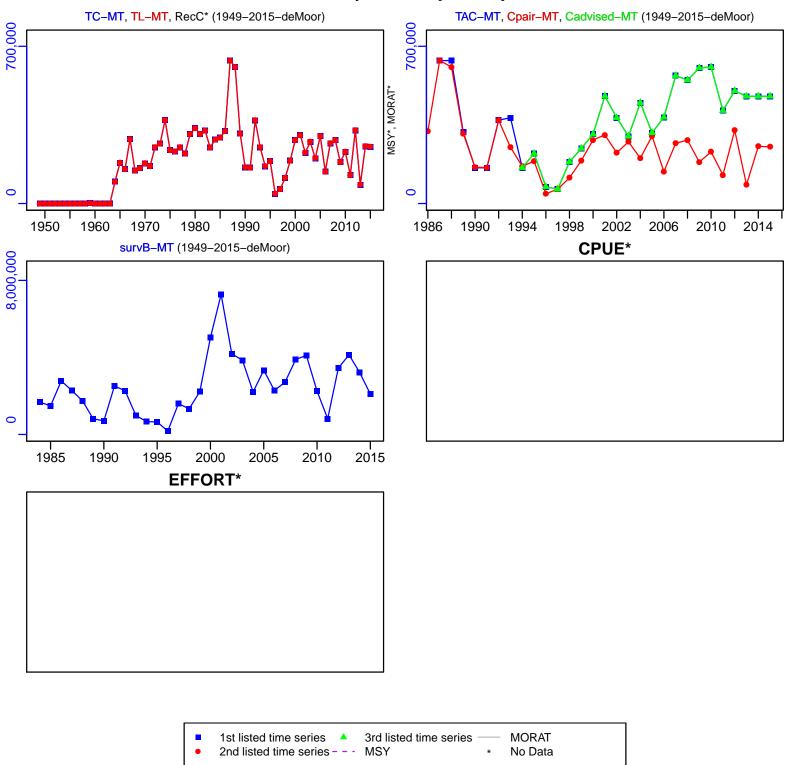
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2015	5,261,270		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2015	1.2		
TBlim	TBlim-MT	2015	204,441		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	$9.94\times10^{11}$	Both	0+
R	R-E00	2015	$6.41\times10^{11}$	Both	-
F	-	-	-	-	-
ER	ER-ratio	2015	0.05	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



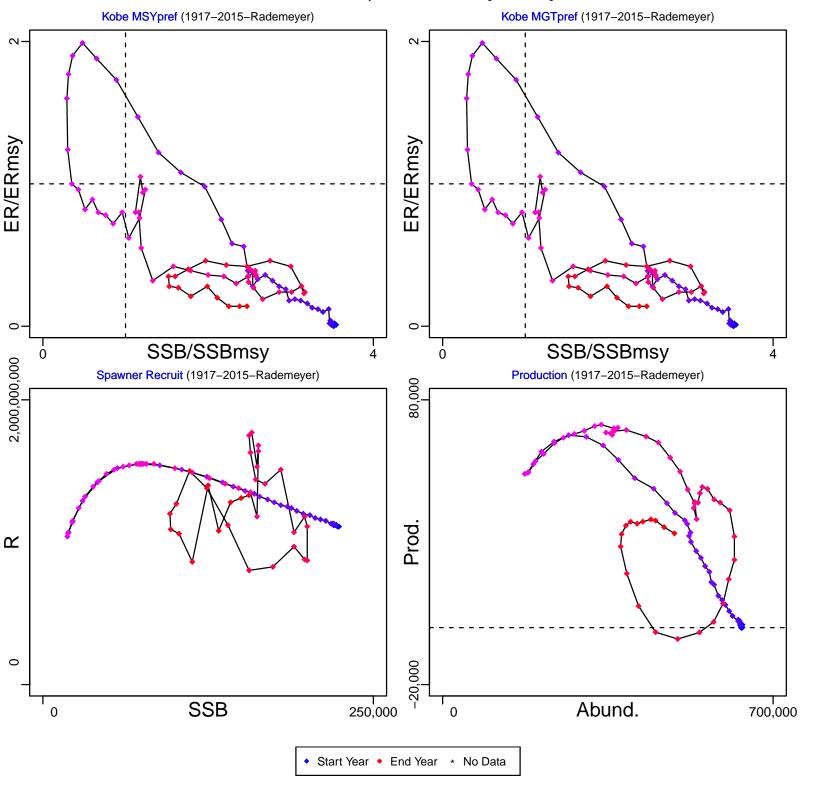


# Shallow-water cape hake South Africa [CHAKESA]

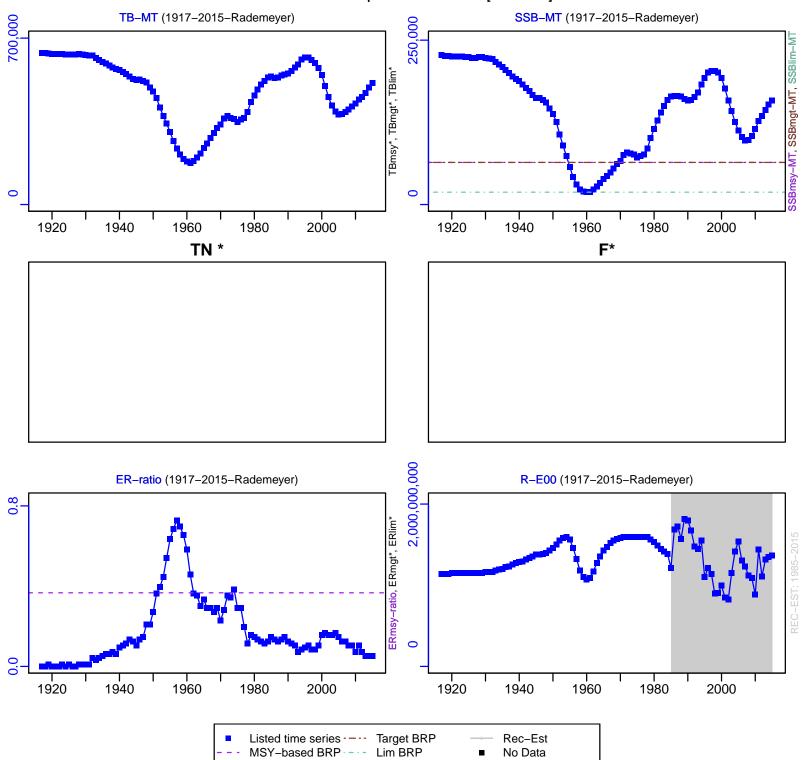
Metadata					
Scientific Name	Merluccius capensis				
Current Assess ID MARAM-CHAKESA-1917-2015-Rademeyer					
Area	Area South Africa				
Management Authority South African national management, Fisheries Branch of					
	Department of Agriculture, Forestry and Fisheries				
Assessor Marine Resource Assessment 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-MT	2015	63,100		
Fmsy	Fmsy-1/yr	2013	0.32		
ERmsy	ERmsy-ratio	2015	0.35		
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		
М	M-1/yr	2015	0.72		
TBlim	TBlim-MT	2013	43,000		
SSBlim	SSBlim-MT	2015	18,500		
Flim	-	-	-		
ERlim	-	-	-		

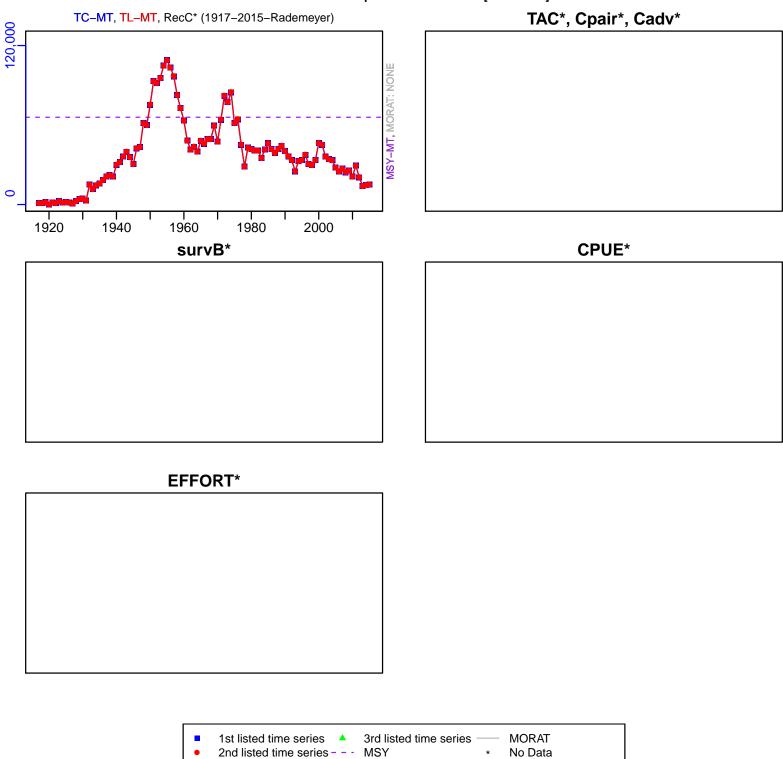
Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2015	510,000	-	0+	
SSB	SSB-MT	2015	156,000	Females	5	
TN	-	-	-	-	-	
R	R-E00	2015	$1.33 \times 10^{9}$	-	0	
F	-	-	-	-	-	
ER	ER-ratio	2015	0.05	-	-	
TC	TC-MT	2015	14,400			
TL	TL-MT	2015	14,400			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless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



### Shallow-water cape hake South Africa [CHAKESA]



## Shallow-water cape hake South Africa [CHAKESA]

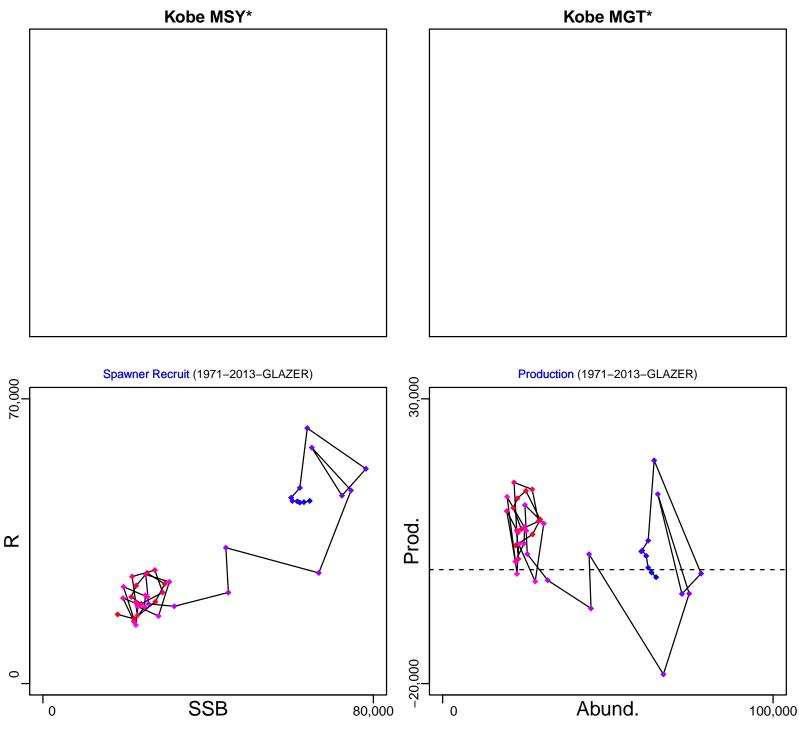


# Cape Hope squid South Africa [CHSQUIDSA]

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			

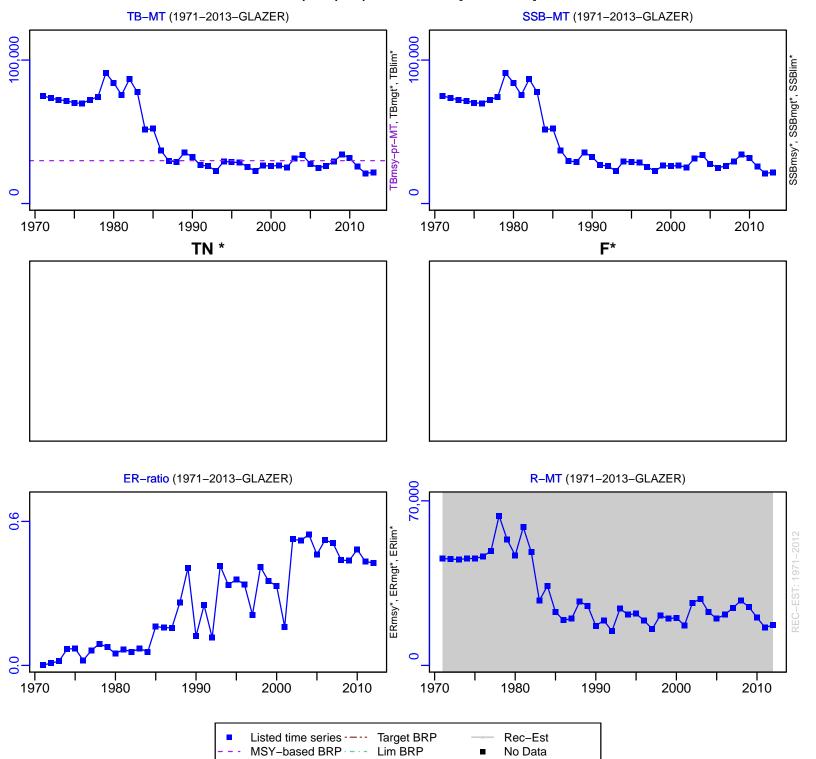
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-pr-MT	2013	25,703	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2013	64,258	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.37	-	-
TC	TC-MT	2013	6690		
TL	TL-MT	2013	6690		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

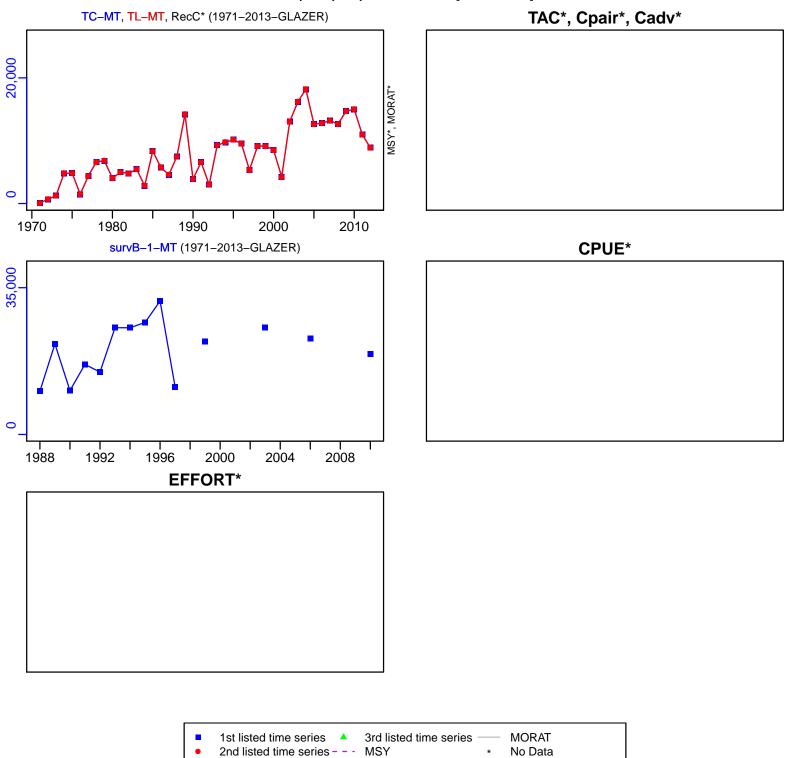


Start Year → End Year → No Data

### Cape Hope squid South Africa [CHSQUIDSA]



## Cape Hope squid South Africa [CHSQUIDSA]

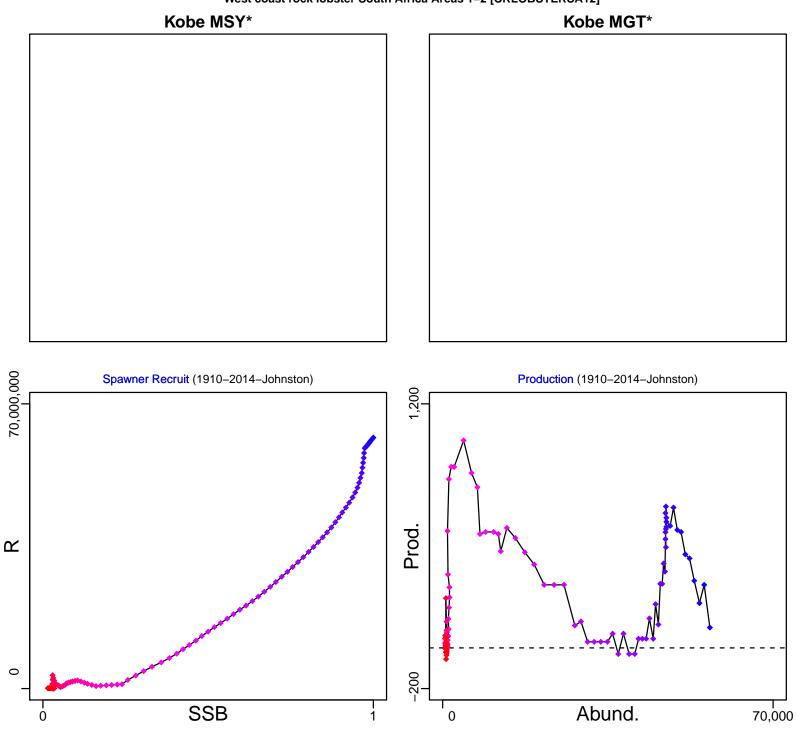


# West coast rock lobster South Africa Areas 1-2 [CRLOBSTERSA12]

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					
Mathematics and Applied Mathematics, University of Cape Town,					
	Rondebosch, 7701, South Africa				
Asmts in RAM	2012, 2014				

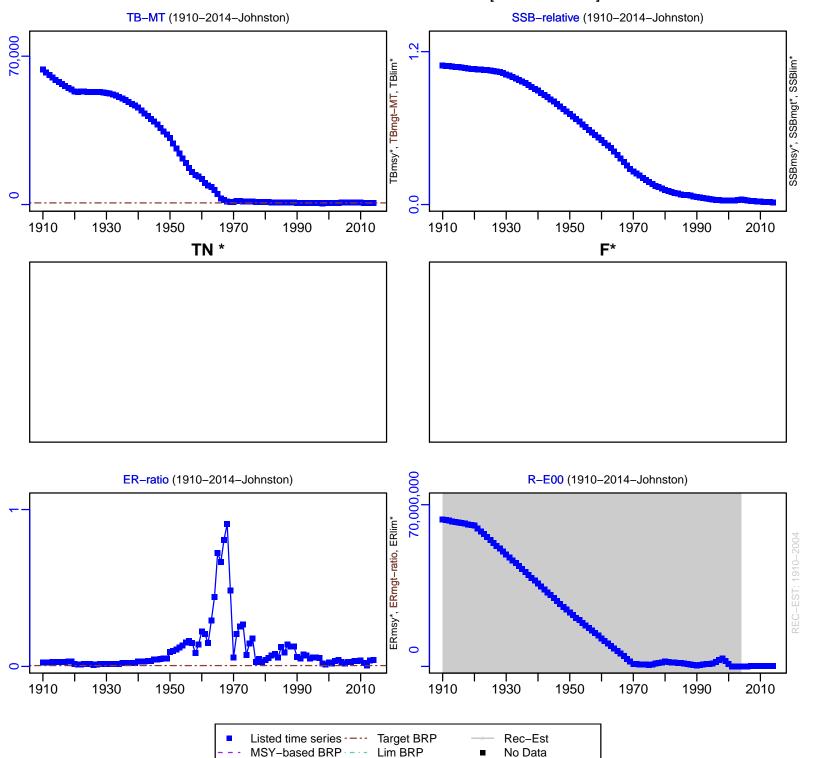
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	TBmgt-MT	2014	683	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2014	0	
TB0	TB0-MT	2014	56,583	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2014	0.11	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	621	Males	-
SSB	SSB-relative	2014	0	Females	-
TN	-	-	-	-	-
R	R-E00	2014	96,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.04	-	-
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	-	-	-		

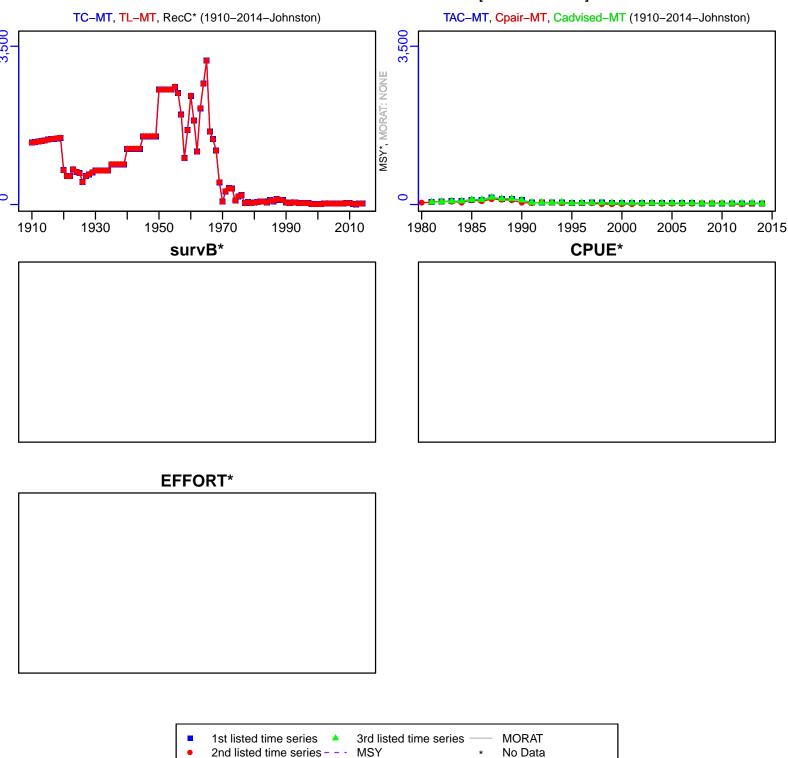


Start Year → End Year → No Data

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



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

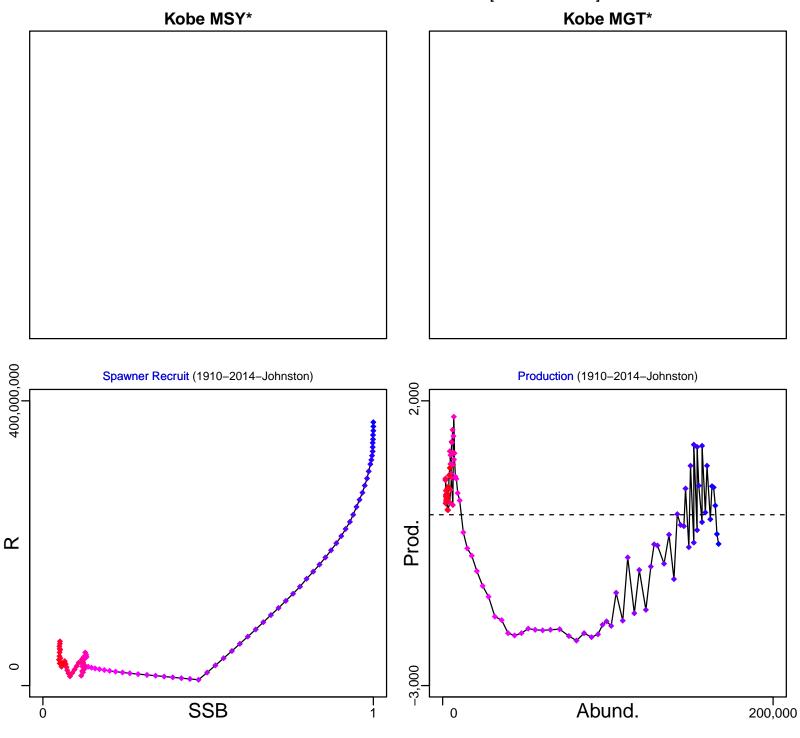


# West coast rock lobster South Africa Areas 3-4 [CRLOBSTERSA34]

	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 Marine Resource Assessment and Management Group, Departmen				
Mathematics and Applied Mathematics, University of Cape Town,				
	Rondebosch, 7701, South Africa			
Asmts in RAM	2012, 2014			

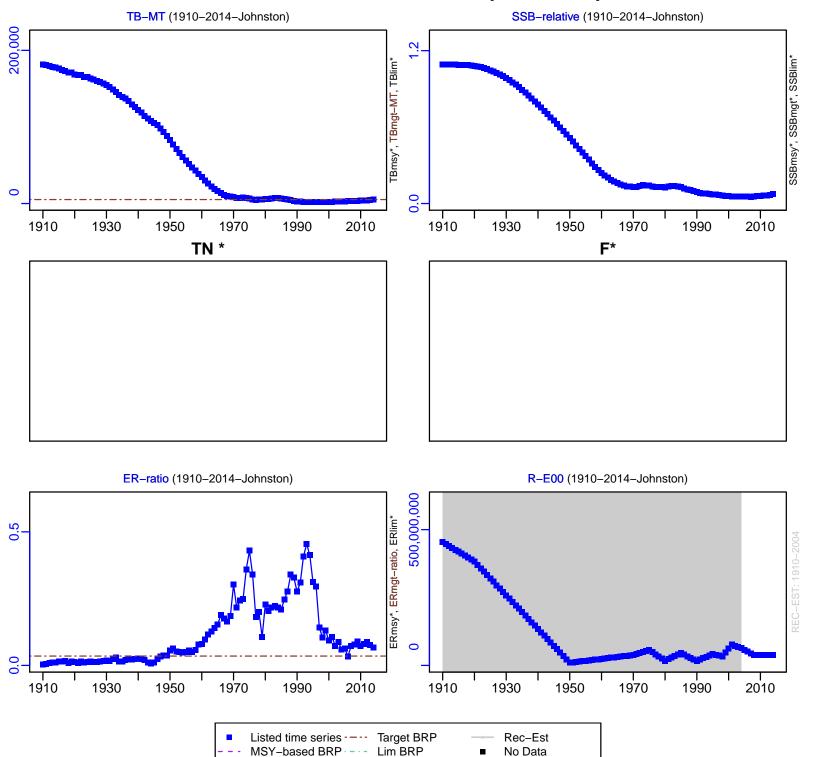
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	TBmgt-MT	2014	4770	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2014	0.03	
TB0	TB0-MT	2014	166,501	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2014	0.11	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	4860	Males	-
SSB	SSB-relative	2014	0	Females	-
TN	-	-	-	-	-
R	R-E00	2014	31,200,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.05	-	-
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	-	-	-		

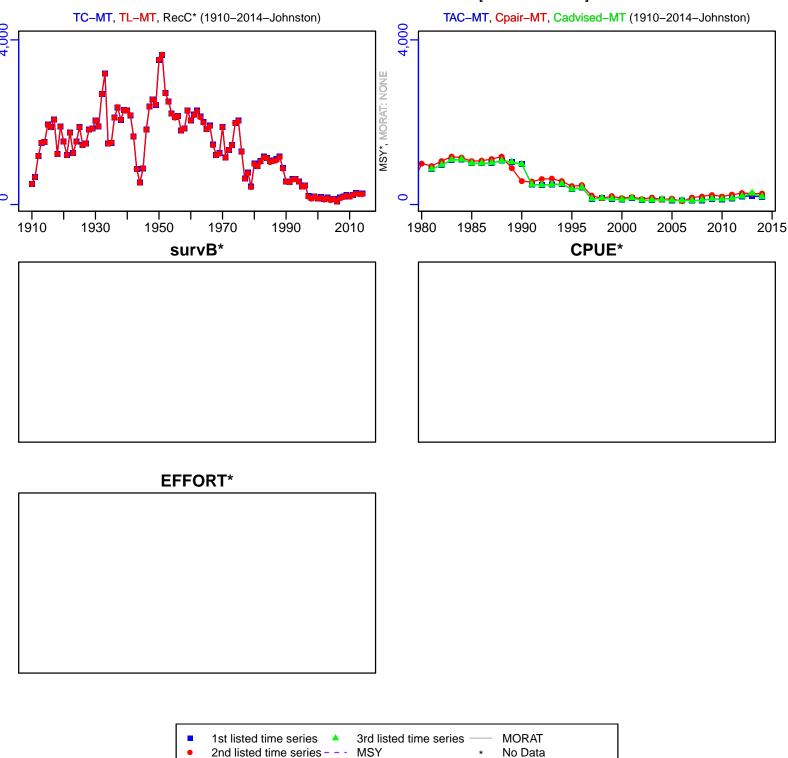


Start Year • End Year \* No Data

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



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

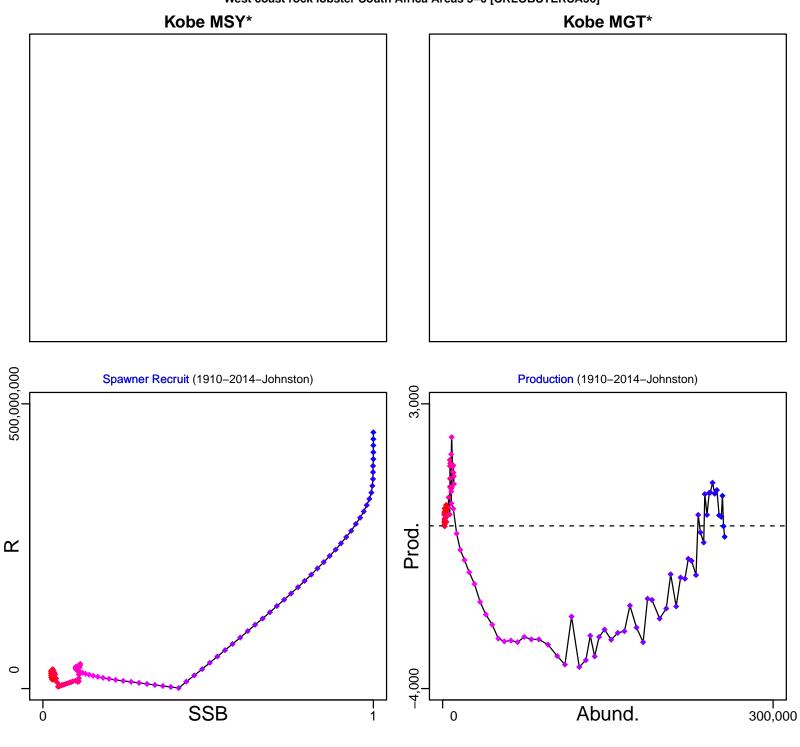


# West coast rock lobster South Africa Areas 5-6 [CRLOBSTERSA56]

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				

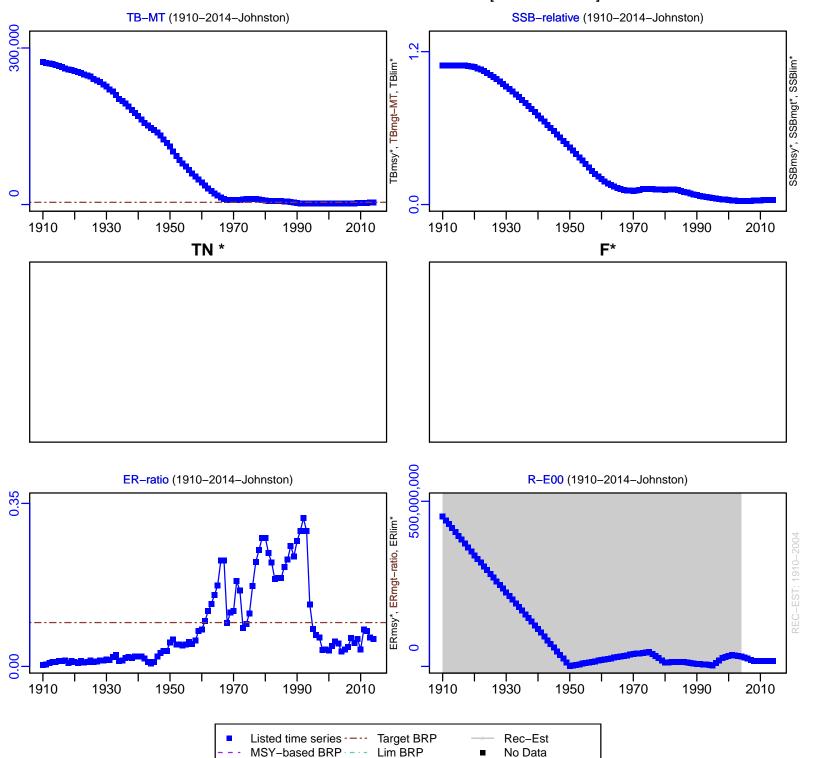
Reference Points				
Туре	Type ID		Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	TBmgt-MT	2014	3993	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2014	0.09	
TB0	TB0-MT	2014	255,837	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2014	0.11	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	3590	Males	-
SSB	SSB-relative	2014	0	Females	-
TN	-	-	-	-	-
R	R-E00	2014	16,200,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.06	-	-
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	-	-	-		

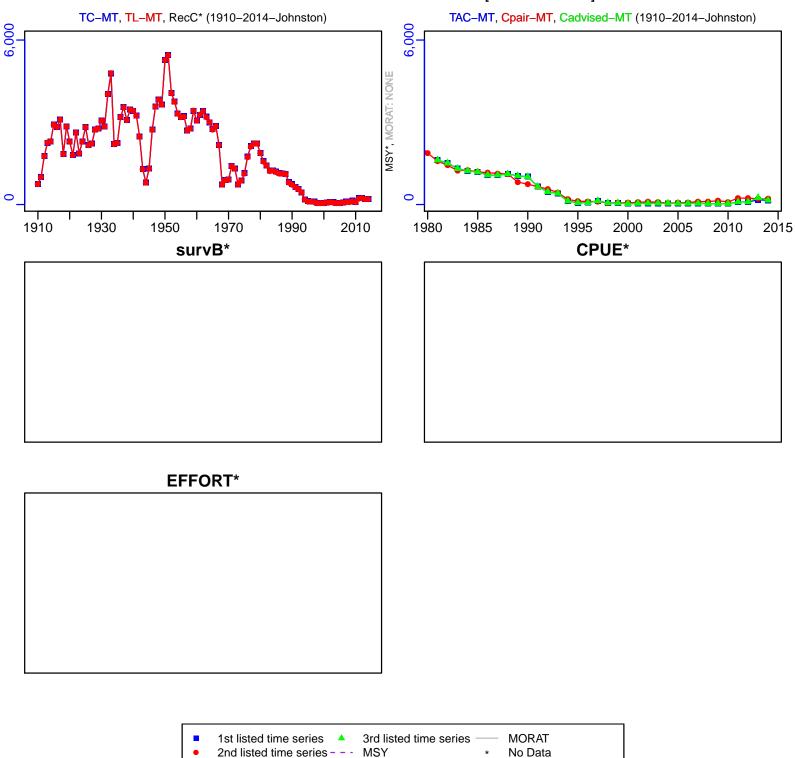


Start Year • End Year \* No Data

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



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

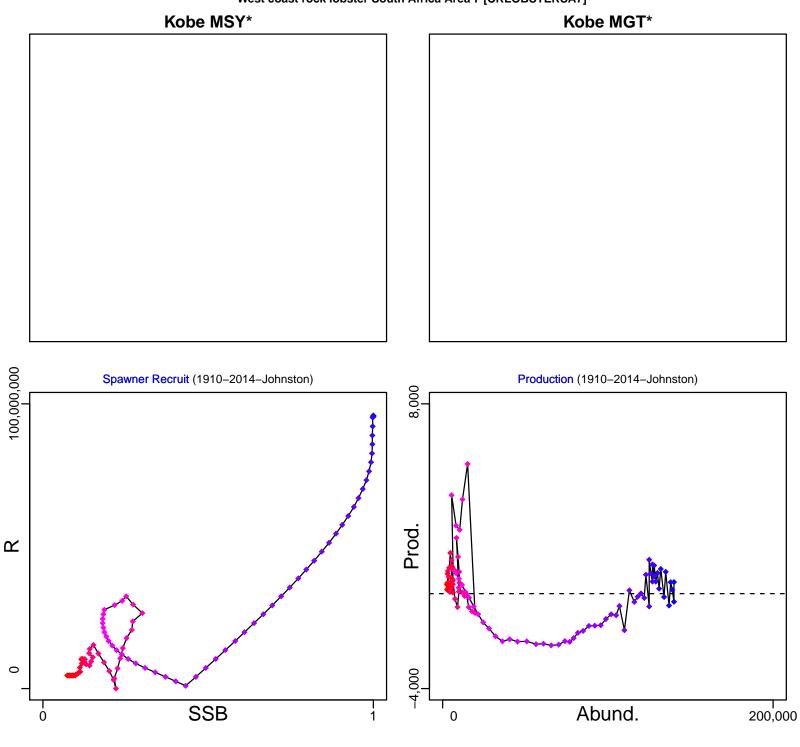


# West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]

	Metadata				
Scientific Name	Jasus lalandii				
Current Assess ID MARAM-CRLOBSTERSA7-1910-2014-Johnston					
Area	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				

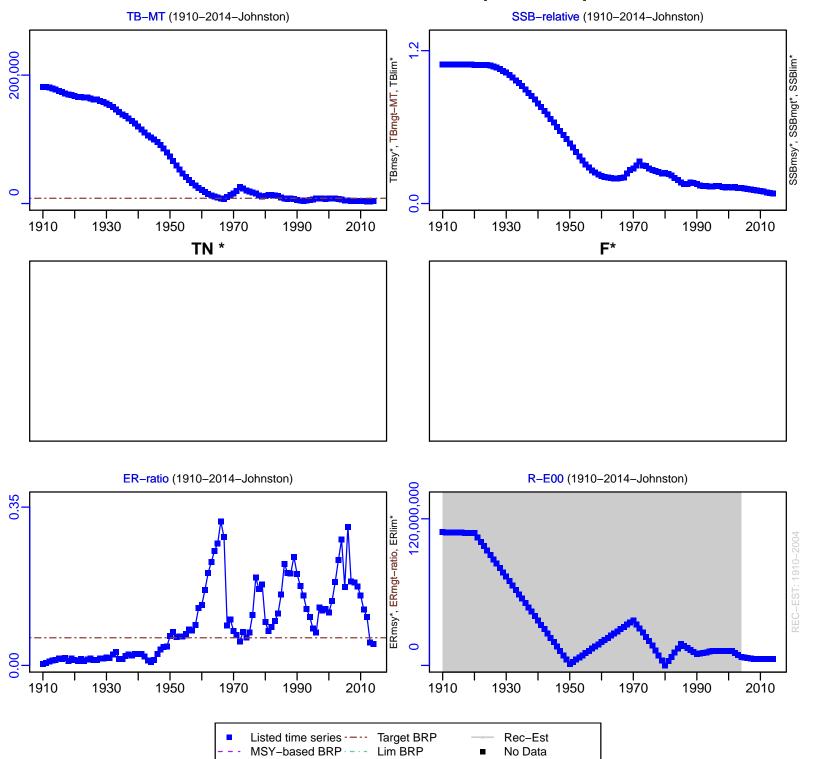
Reference Points				
Туре	Type ID		Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	TBmgt-MT	2014	6310	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2014	0.06	
TB0	TB0-MT	2014	116,689	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2014	0.11	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	2860	Males	-
SSB	SSB-relative	2014	0	Females	-
TN	-	-	-	-	-
R	R-E00	2014	4,590,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.04	-	-
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	-	-	-		

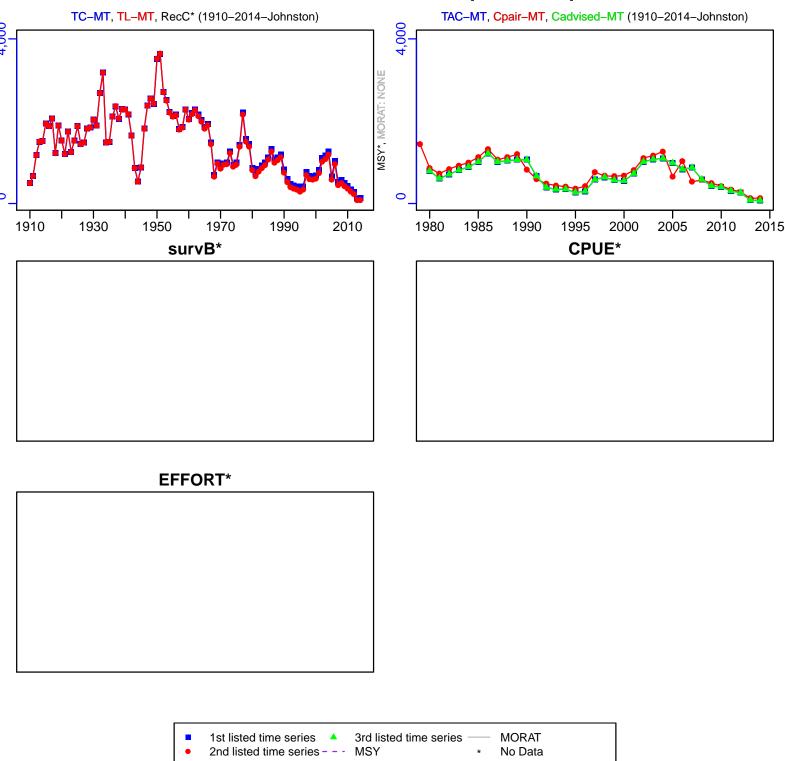


Start Year → End Year → No Data

### West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]



### West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]

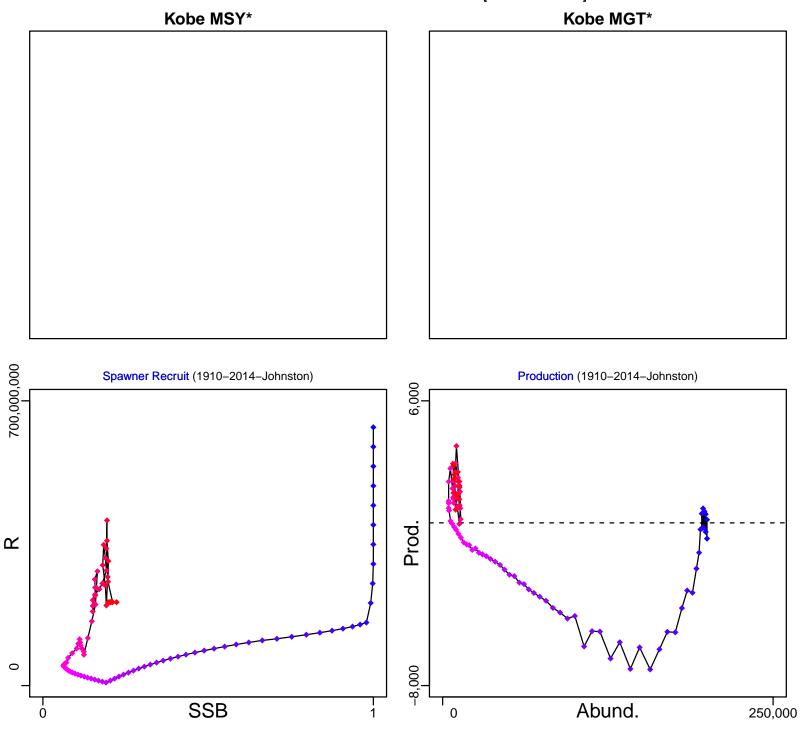


# West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]

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 Marine Resource Assessment and Management Group, Department					
Mathematics and Applied Mathematics, University of Cape Town,					
	Rondebosch, 7701, South Africa				
Asmts in RAM	2012, 2014				

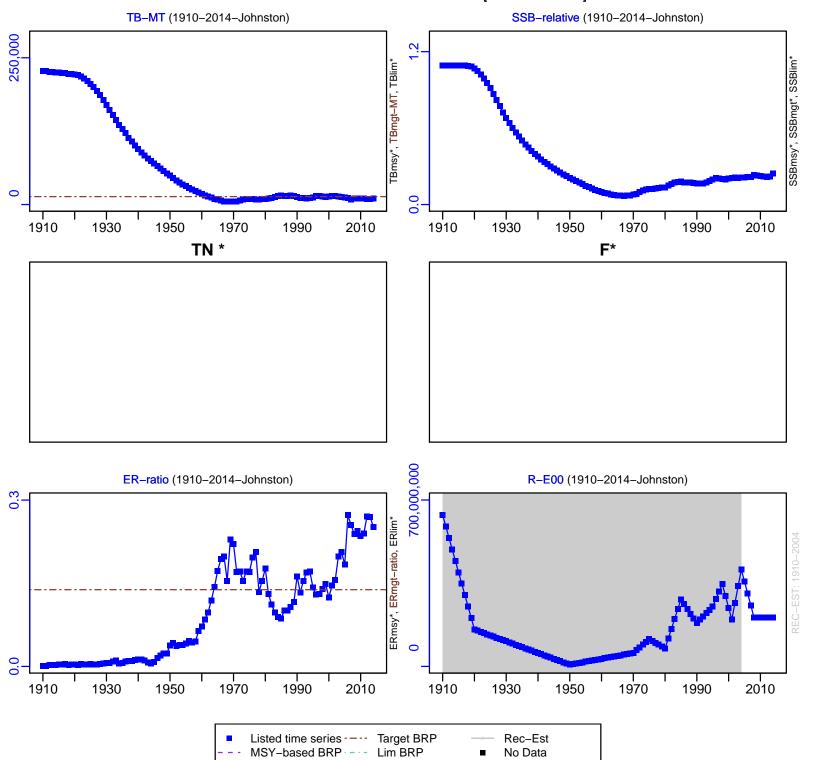
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	TBmgt-MT	2014	11,869	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2014	0.14	
TB0	TB0-MT	2014	199,707	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2014	0.11	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	8860	Males	-
SSB	SSB-relative	2014	0	Females	-
TN	-	-	-	-	-
R	R-E00	2014	$2.05 \times 10^{8}$	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.25	-	-
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	-	-	-		

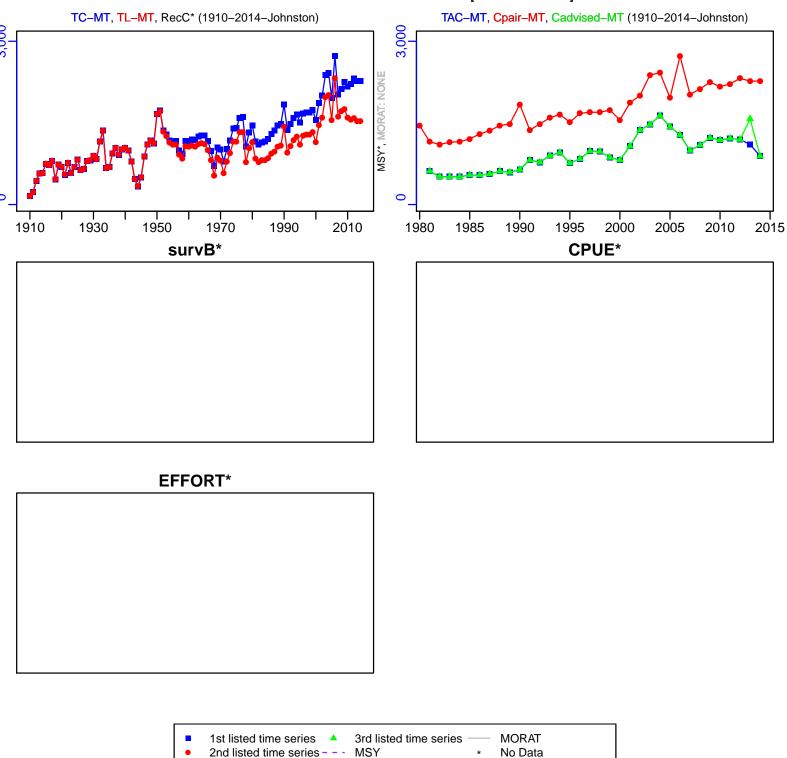


Start Year → End Year → No Data

#### West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]



### West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]



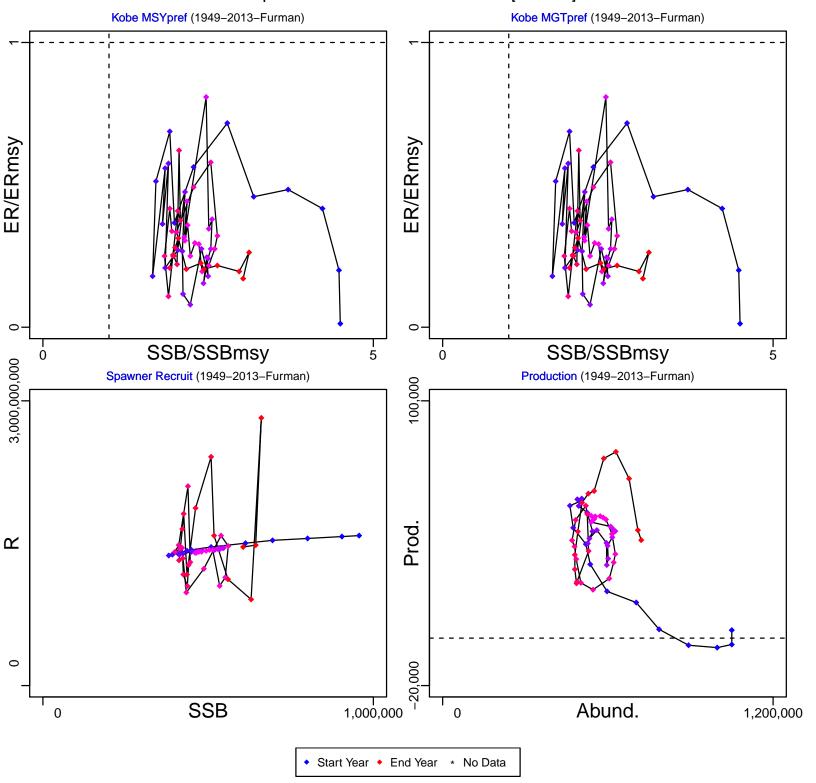
# Cape horse mackerel South Africa South coast [CTRACSA]

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

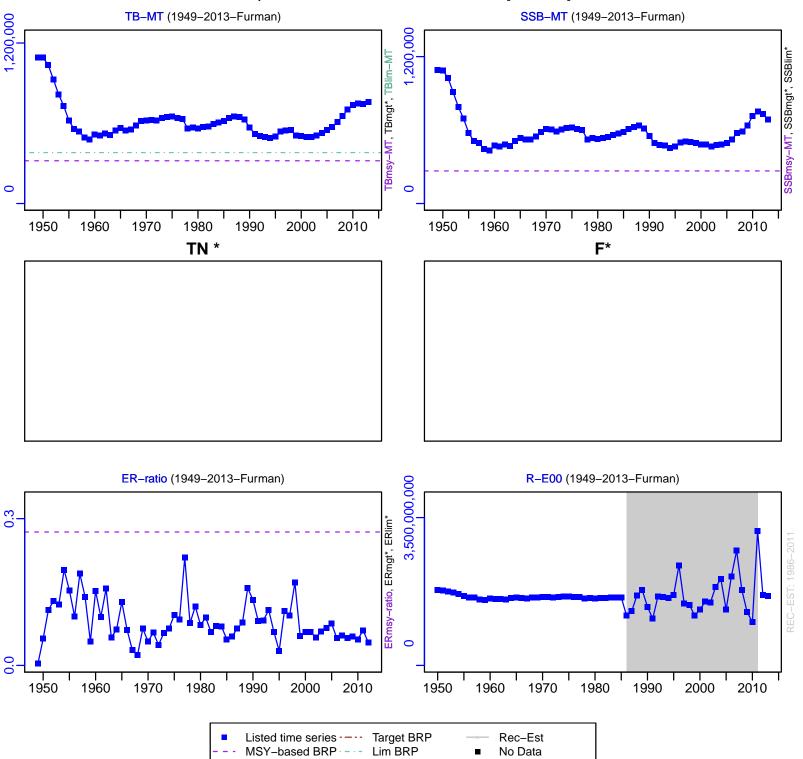
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-MT	2013	307,654			
SSBmsy	SSBmsy-MT	2013	234,635			
Fmsy	Fmsy-1/yr	2013	0.19			
ERmsy	ERmsy-ratio	2013	0.24			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	TB0-MT	2013	1,052,609			
SSB0	SSB0-MT	2013	960,562			
MSY	MSY-MT	2013	72,924			
M	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	$1.46 \times 10^{9}$	-	0		
F	-	-	-	-	-		
ER	ER-ratio	2013	0.04	-	-		
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	0.17				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

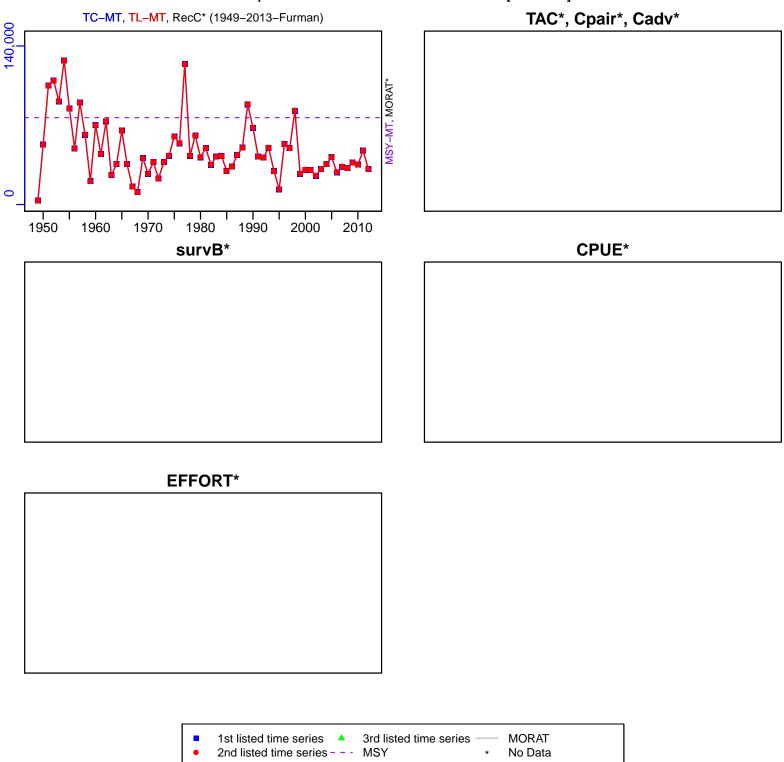
### Cape horse mackerel South Africa South coast [CTRACSA]



#### Cape horse mackerel South Africa South coast [CTRACSA]



#### Cape horse mackerel South Africa South coast [CTRACSA]

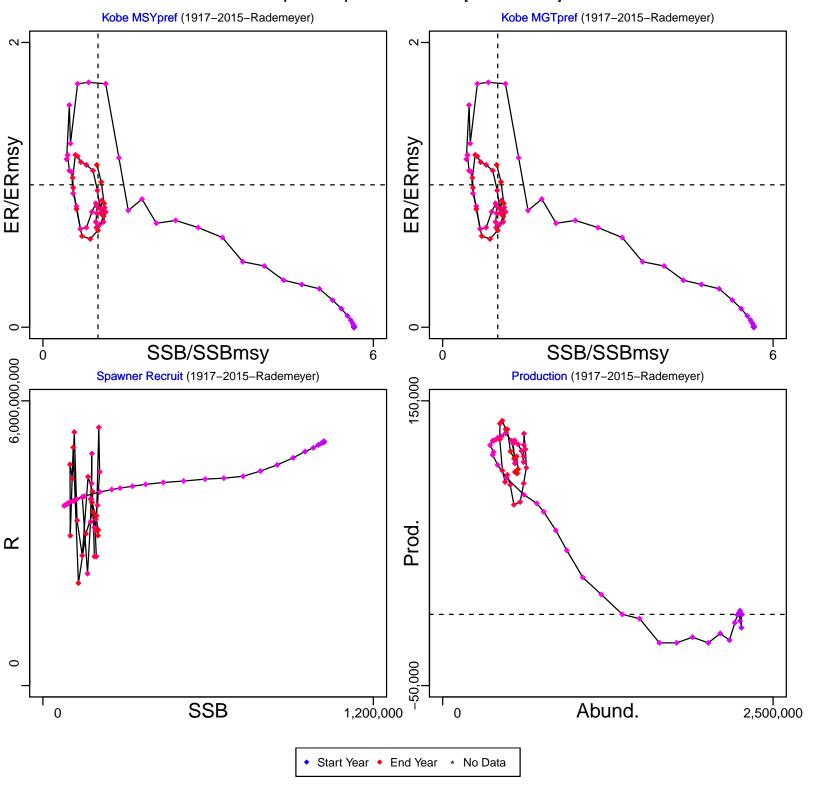


# Deep-water cape hake South Africa [DEEPCHAKESA]

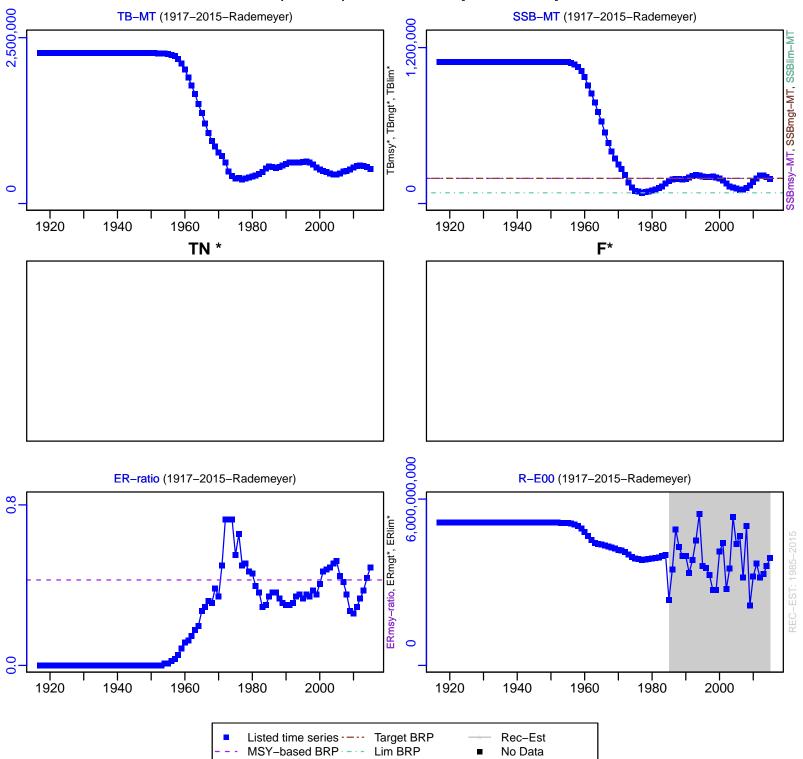
Metadata						
Scientific Name	Merluccius paradoxus					
Current Assess ID	MARAM-DEEPCHAKESA-1917-2015-Rademeyer					
Area South Africa						
Management Authority   South African national management, Fisheries Branch of						
	Department of Agriculture, Forestry and Fisheries					
Assessor Marine Resource 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-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	
M	M-1/yr	2015	0.72	
TBlim	TBlim-MT	2013	60,000	
SSBlim	SSBlim-MT	2015	77,200	
Flim	-	-	-	
ERlim	-	-	-	

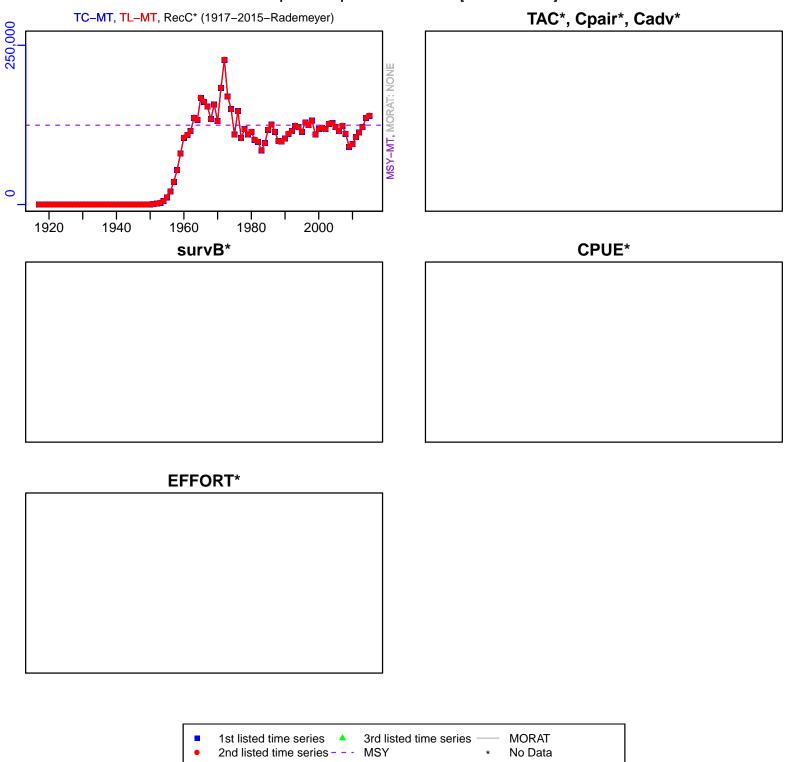
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	517,000	-	0+
SSB	SSB-MT	2015	178,000	Females	4
TN	-	-	-	-	-
R	R-E00	2015	$3.86 \times 10^{9}$	-	0
F	-	-	-	-	-
ER	ER-ratio	2015	0.47	-	-
TC	TC-MT	2015	133,000		
TL	TL-MT	2015	133,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless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



#### Deep-water cape hake South Africa [DEEPCHAKESA]



## Deep-water cape hake South Africa [DEEPCHAKESA]

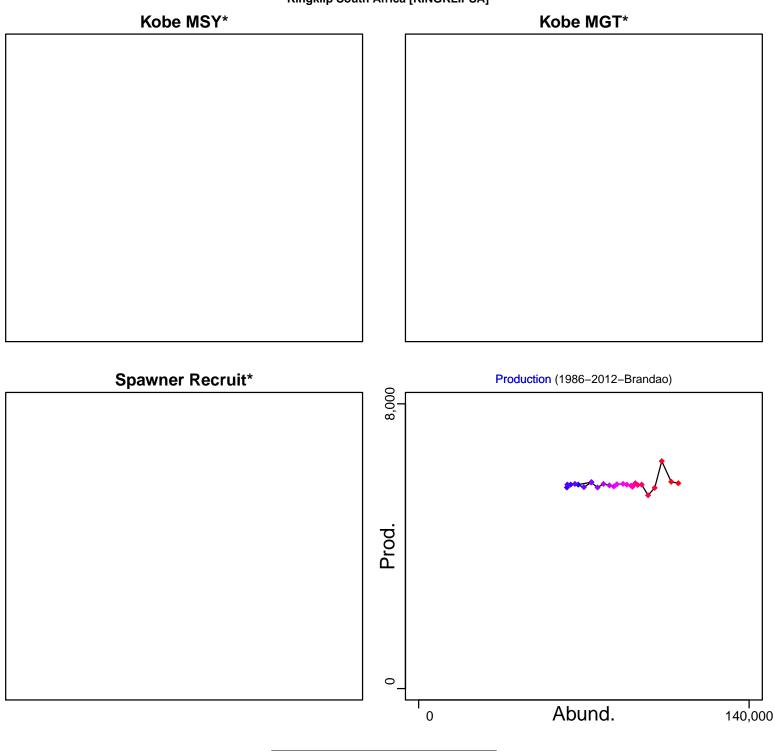


# Kingklip South Africa [KINGKLIPSA]

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

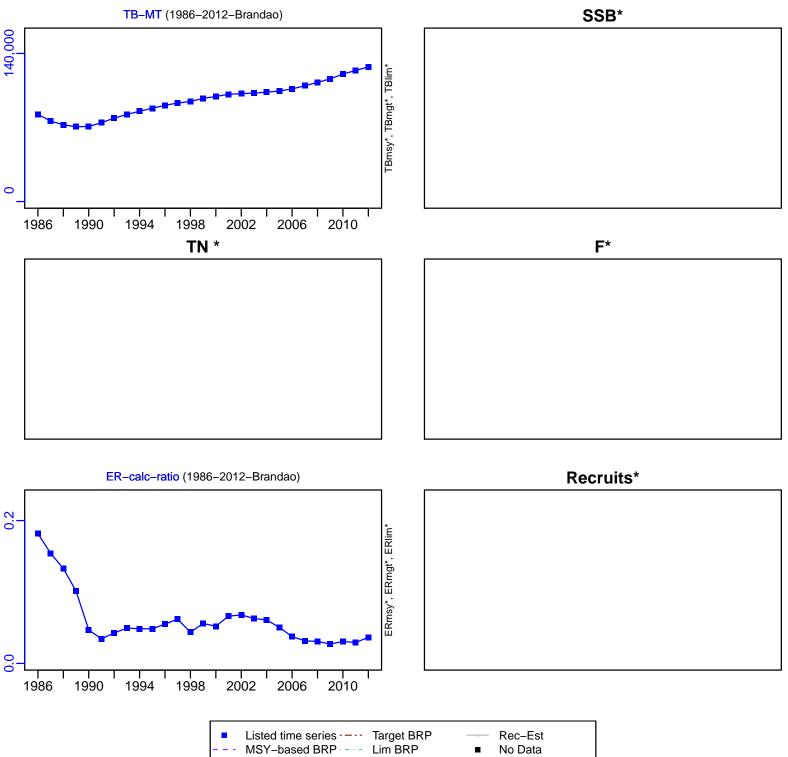
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2012	85,311	
SSB0	-	-	-	
MSY	MSY-MT	2012	5855	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.03	-	-
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	-	-	-		



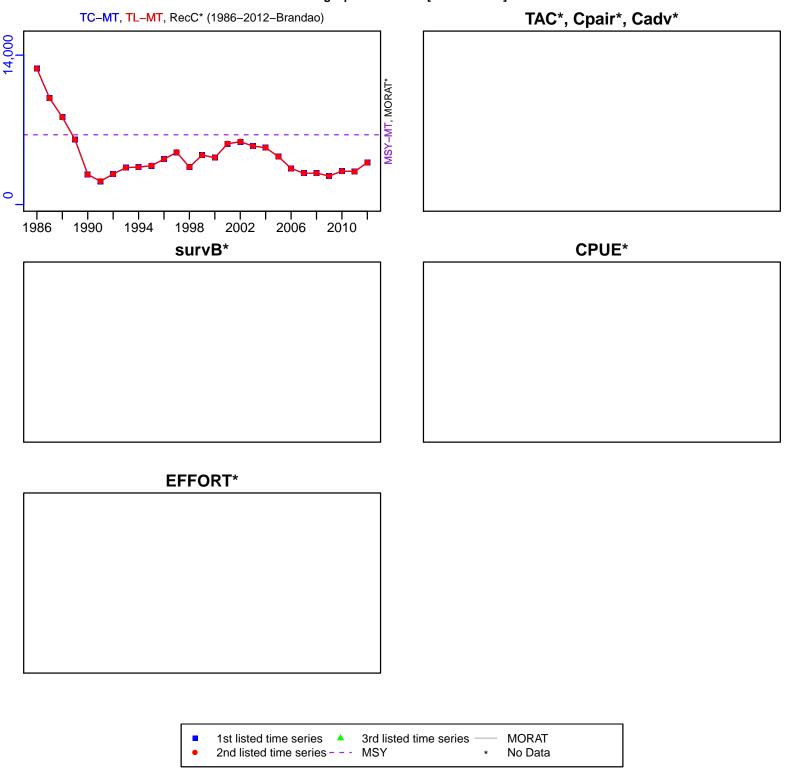
Start Year ◆ End Year \* No Data

#### Kingklip South Africa [KINGKLIPSA]



No Data

#### Kingklip South Africa [KINGKLIPSA]



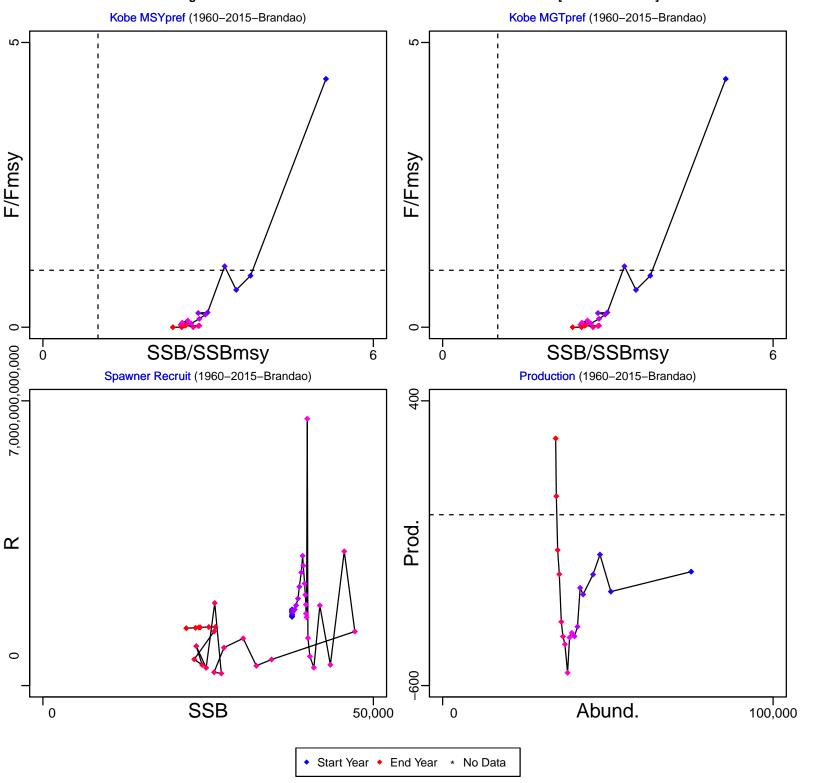
# Patagonian toothfish South Africa Subantarctic Prince Edward Islands [PTOOTHFISHPEI]

Metadata				
Scientific Name	Dissostichus eleginoides			
Current Assess ID MARAM-PTOOTHFISHPEI-1960-2015-Brandao				
Area 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			

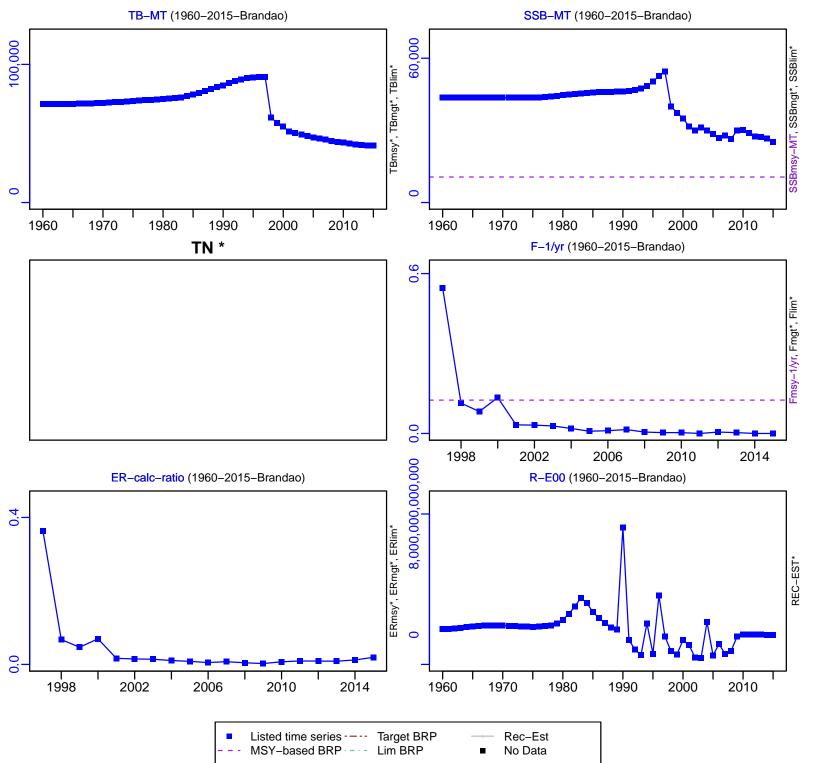
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2015	9180		
Fmsy	Fmsy-1/yr	2015	0.12		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2015	59,165		
SSB0	SSB0-MT	2015	37,662		
MSY	MSY-MT	2015	1514		
M	M-1/yr	2015	0.13		
TBlim	-	-	-		
SSBlim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

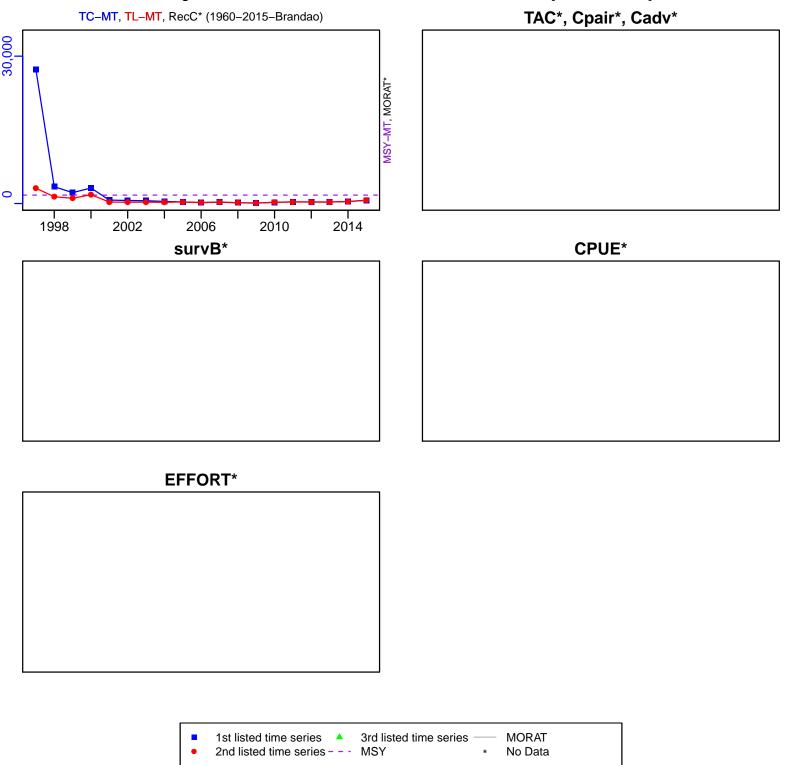
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	34,100	-	0+
SSB	SSB-MT	2015	21,700	-	13+
TN	-	-	-	-	-
R	R-E00	2015	$1.41 \times 10^{12}$	-	6
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0.02	-	-
TC	TC-MT	2015	575		
TL	TL-MT	2015	575		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	2.36		
F/Fmsy	FdivFmsy-dimensionless	2015	0		
ER/ERmsy	ER-ratio/Fmsy-1/yr	2013	0.01		
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]



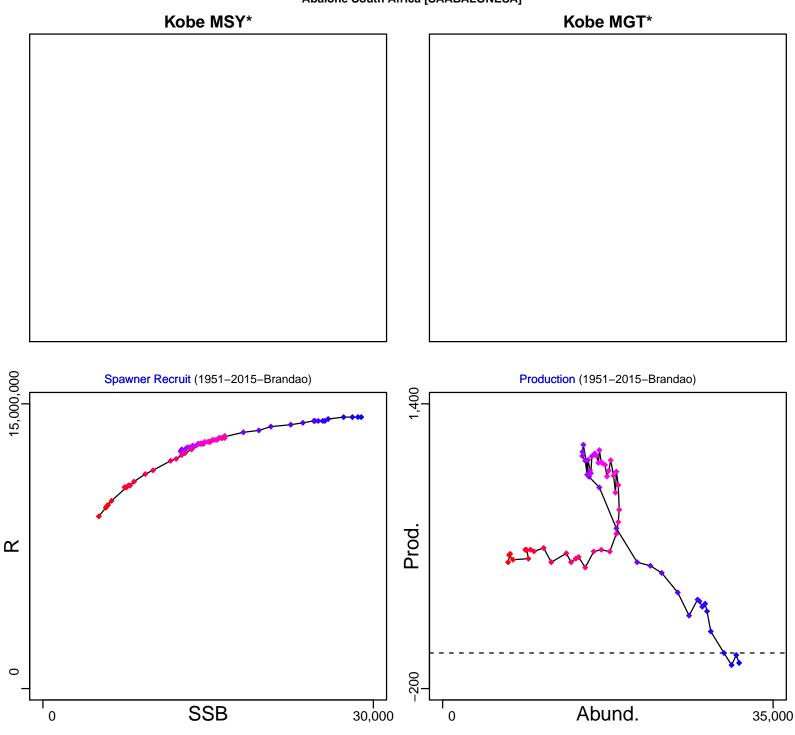


# Abalone South Africa [SAABALONESA]

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, Departmen					
	Mathematics and Applied Mathematics, University of Cape Town,				
	Rondebosch, 7701, South Africa				
Asmts in RAM	2013, 2015				

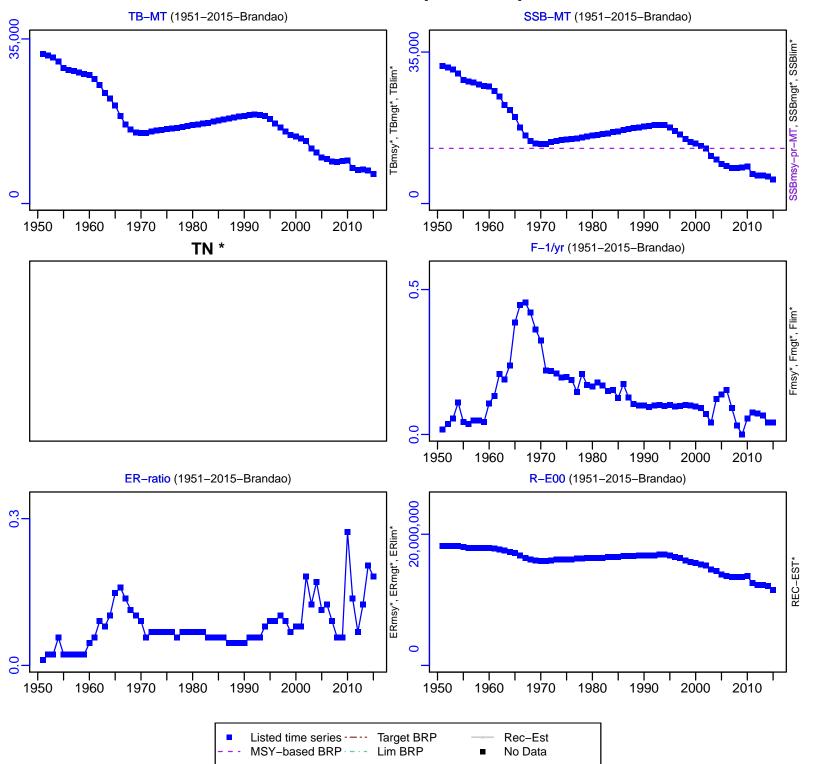
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-pr-MT	2015	11,575	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2015	31,391	
SSB0	SSB0-MT	2015	28,937	
MSY	-	-	-	
M	M-1/yr	2015	0.15	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.04	-	-
ER	ER-ratio	2015	0.16	-	-
TC	TC-MT	2015	985		
TL	TL-MT	2015	50		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

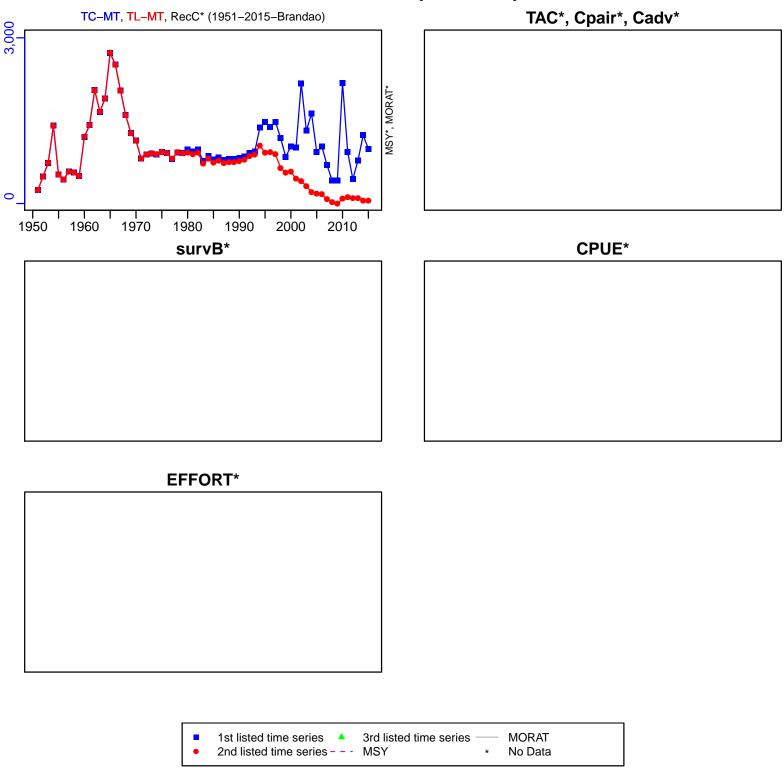


Start Year → End Year → No Data

#### Abalone South Africa [SAABALONESA]



## Abalone South Africa [SAABALONESA]

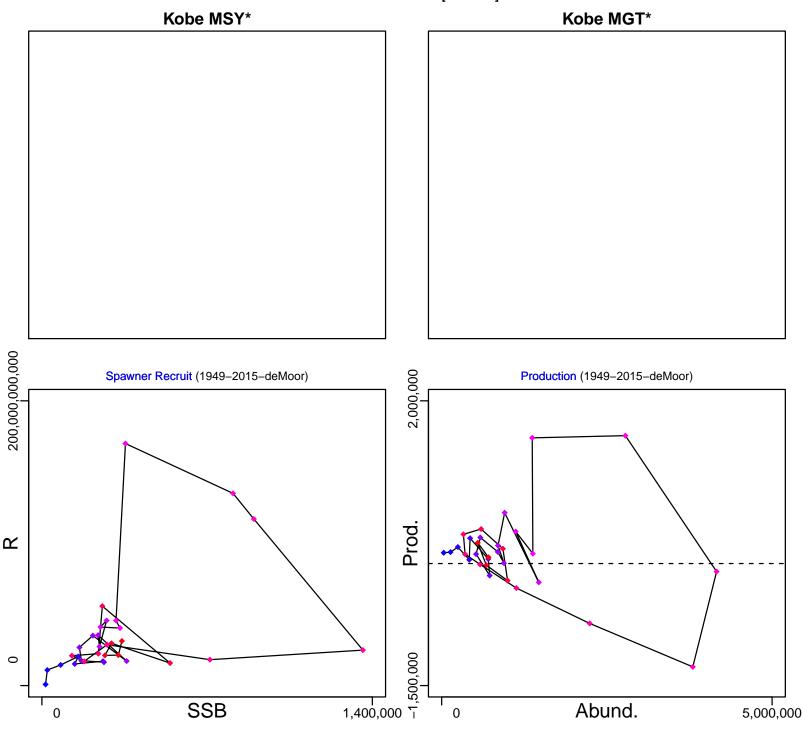


# Sardine South Africa [SARDSA]

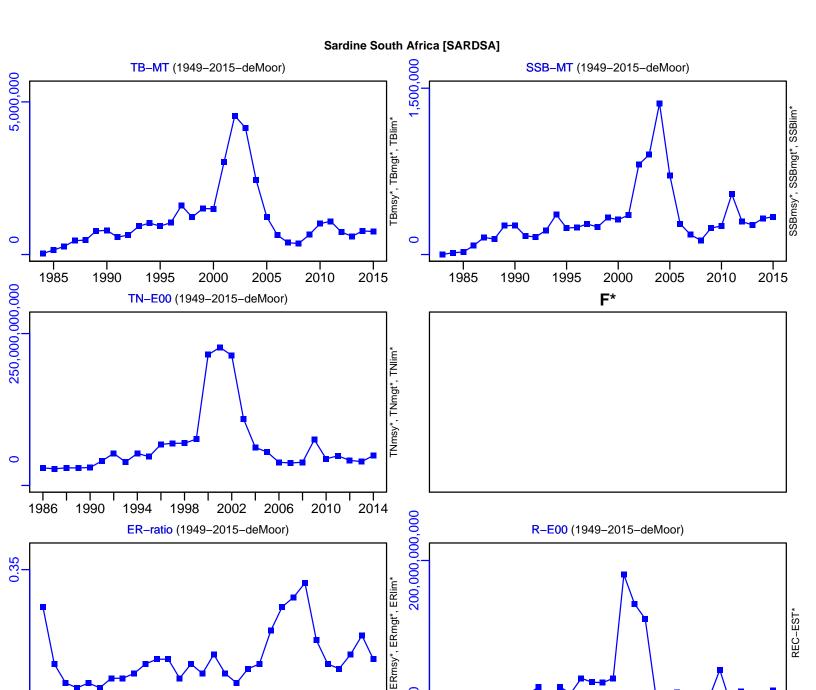
Metadata			
Scientific Name	Sardinops sagax		
Current Assess ID	MARAM-SARDSA-1949-2015-deMoor		
Area	South Africa		
Management Authority	South African national management, Fisheries Branch of		
	Department of Agriculture, Forestry and Fisheries		
Assessor	Marine Resource Assessment and Management Group, 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	1,122,314	
SSB0	-	-	-	
MSY	-	-		
M	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	$4.47 \times 10^{10}$	Both	0+
R	R-E00	2015	$3.13 \times 10^{10}$	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

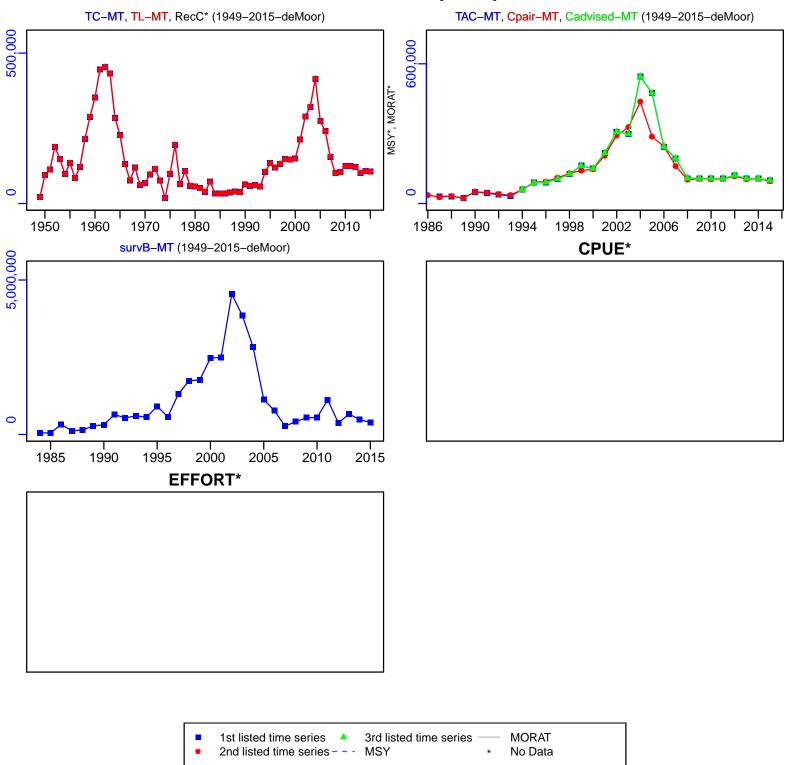


Rec-Est No Data

0.00

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

## Sardine South Africa [SARDSA]

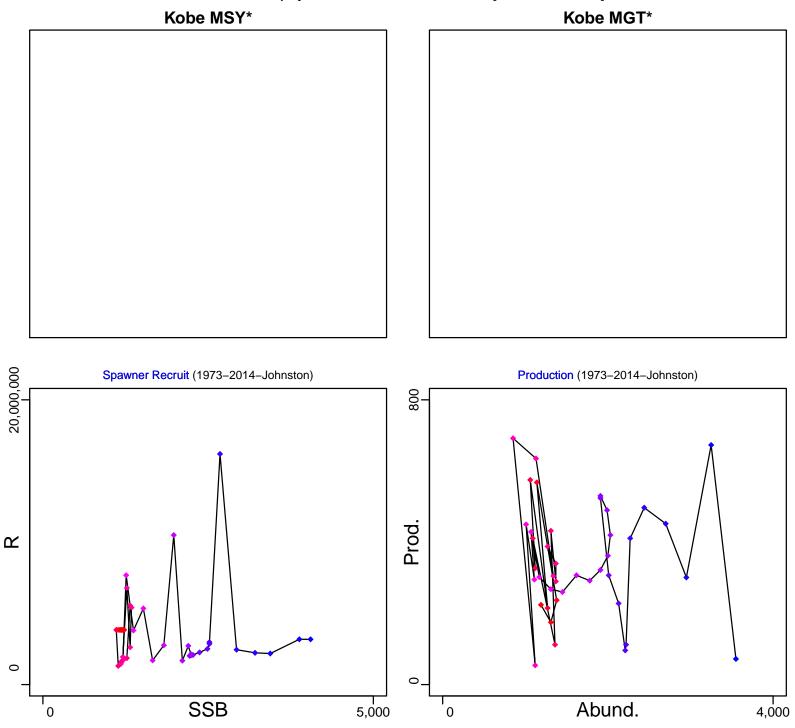


# Southern spiny lobster South Africa South coast [SSLOBSTERSASC]

Metadata			
Scientific Name	Palinurus gilchristi		
Current Assess ID	MARAM-SSLOBSTERSASC-1973-2014-Johnston		
Area	South Africa South coast		
Management Authority	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		

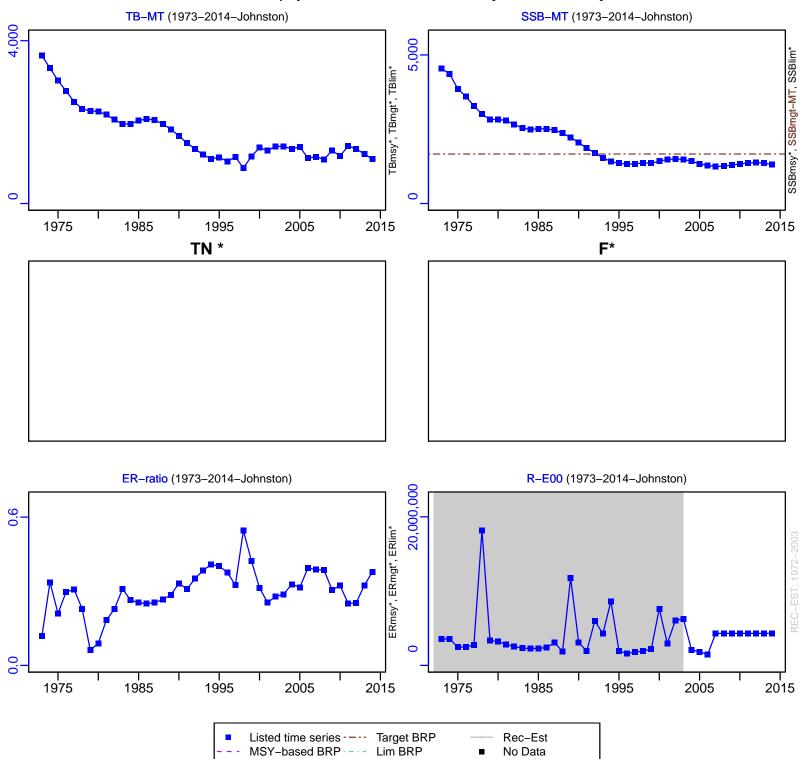
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	1484	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2014	4047	
MSY	-	-	-	
М	M-1/yr	2014	0.1	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.34	-	-
TC	TC-MT	2014	359		
TL	TL-MT	2014	359		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
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]

