Southern Africa Stocks

v4.61 (Apr-02-2023)

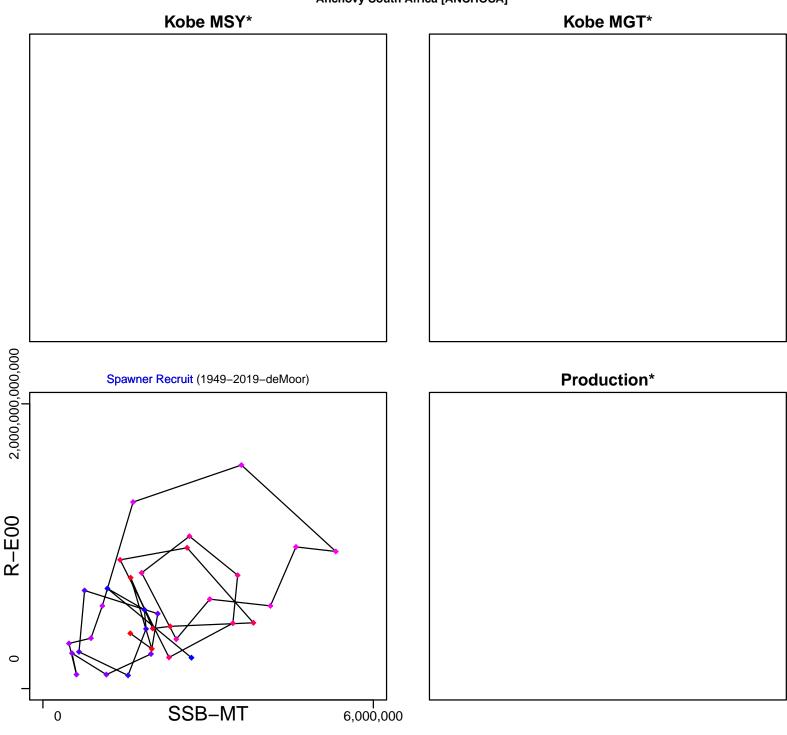
Not present Present Preferred

	Time Series 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]	TB SSB	ER F	TB SSB	ER F
11. DVANGSASC [Devil anglerfish South Africa South coast]	TB SSB	ER F	TB SSB	ER F
12. DVANGSAWC [Devil anglerfish South Africa West coast]	TB SSB	ER F	TB SSB	ER F
13. ECSOLESASC [East coast sole South Africa South coast]	TB SSB	ER F	TB SSB	ER F
14. HAKESPPSAF [Hake spp Southern Africa]	TB SSB	ER F	TB SSB	ER F
15. KINGKLIPSASC [Kingklip South Africa South coast]	TB SSB	ER F	TB SSB	ER F
16. KINGKLIPSAWC [Kingklip South Africa West coast]	TB SSB	ER F	TB SSB	ER F
17. PTOOTHFISHPEI [Patagonian toothfish South Africa Subantarctic	TB SSB	ER F	TB SSB	ER F
Prince Edward Islands]				
18. SAABALONESA [South African abalone South Africa]	TB SSB	ER F	TB SSB	ER F
19. SARDSAS [Sardine South Africa (South Component)]		ER F	TB SSB	ER F
20. SARDSAW [Sardine South Africa (West Component)]		ER F	TB SSB	ER F
21. SSLOBSTERSASC [Southern spiny lobster South Africa South	TB SSB	ER F	TB SSB	ER F
coast]				

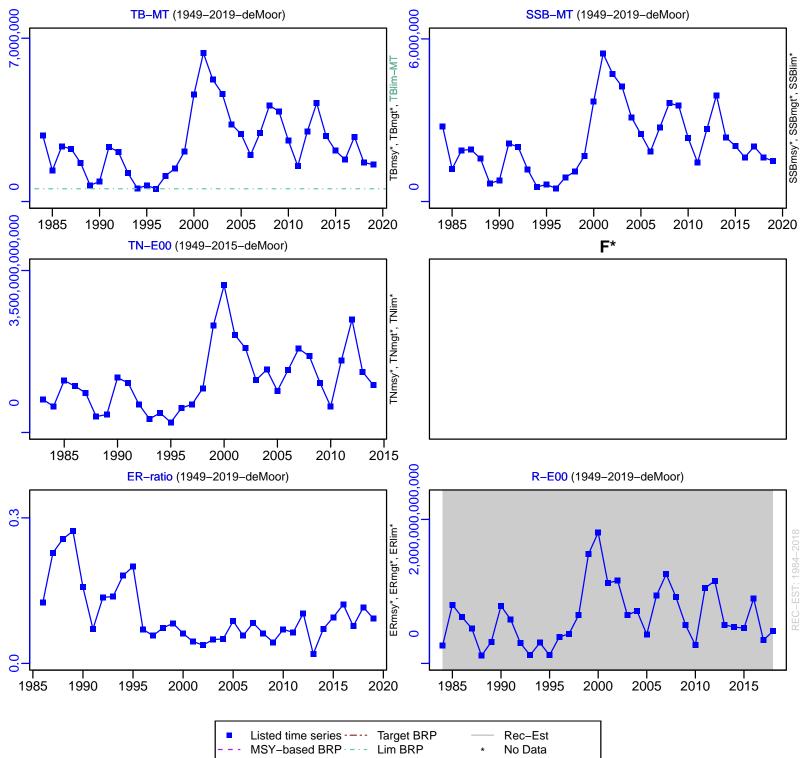
	Metadata			
Scientific Name	Engraulis encrasicolus			
Current Assess ID	MARAM-ANCHOSA-1949-2019-deMoor			
Area	South Africa			
Management Authority	South African national management, Fisheries Branch of			
	Department of Agriculture, Forestry and Fisheries			
Assessor Marine Resource Assessment and Management Group, Department of				
	Mathematics and Applied Mathematics, University of Cape Town,			
	Rondebosch, 7701, South Africa			
Asmts in RAM	2015, 2019, 2011			

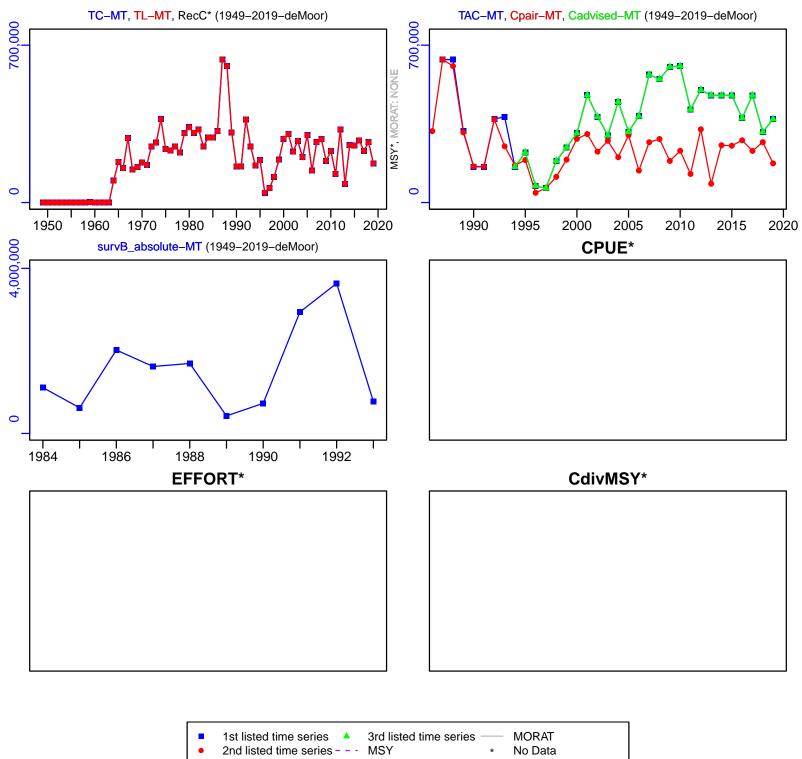
	Reference Points					
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	TB0-MT	2015	5,261,270			
SSB0	SSB0-MT	2019	2,754,300			
MSY	-	-	-			
М	M-1/yr	2019	1.2			
TBlim	TBlim-MT	2019	536,000			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	1,546,700	-	-
SSB	SSB-MT	2019	1,455,800	-	-
TN	TN-E00	2015	9.94×10^{11}	Both	0+
R	R-E00	2019	3.88×10^{11}	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.081	Both	-
TC	TC-MT	2019	164,400		
TL	TL-MT	2019	164,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year * No Data



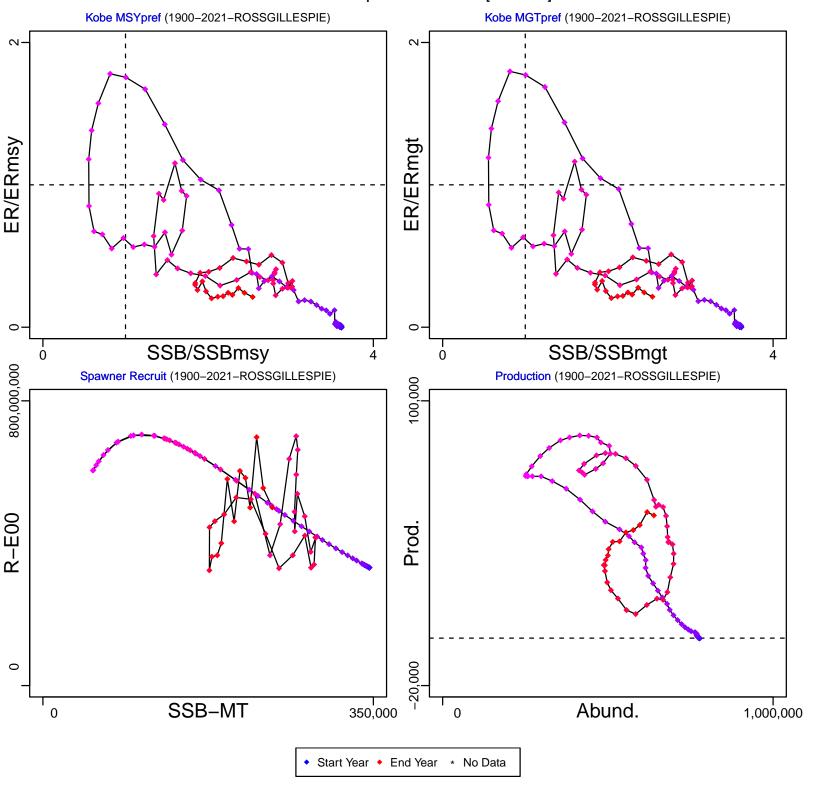


Shallow water cape hake South Africa [CHAKESA]

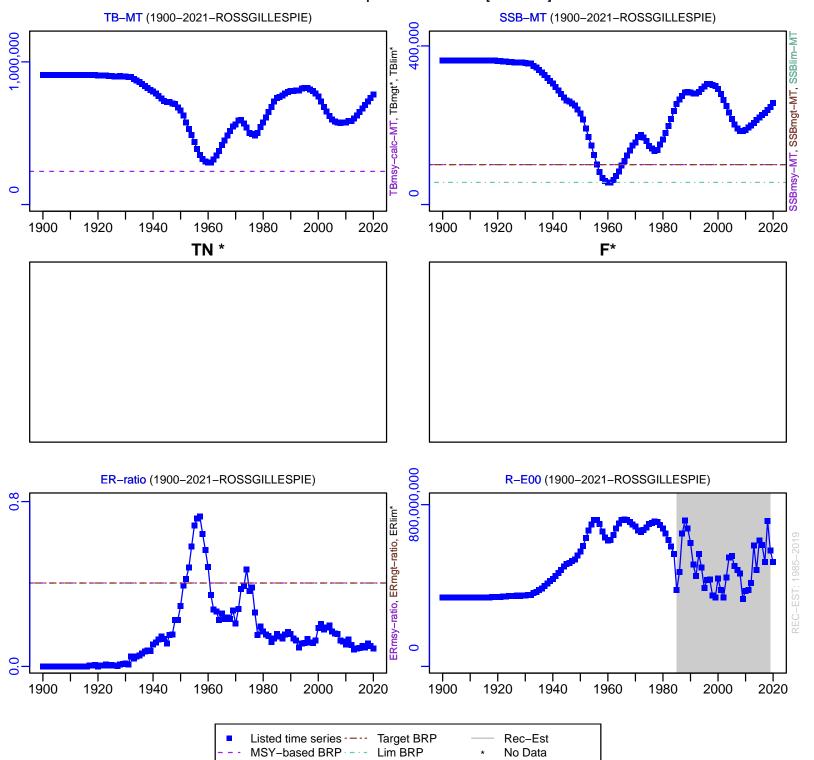
Metadata			
Scientific Name	Merluccius capensis		
Current Assess ID	MARAM-CHAKESA-1900-2021-ROSSGILLESPIE		
Area	South Africa		
Management Authority	South African national management, Fisheries Branch of		
	Department of Agriculture, Forestry and Fisheries		
Assessor Marine Resource Assessment and Management Group, Department			
	Mathematics and Applied Mathematics, University of Cape Town,		
	Rondebosch, 7701, South Africa		
Asmts in RAM	2021, 2013, 2015		

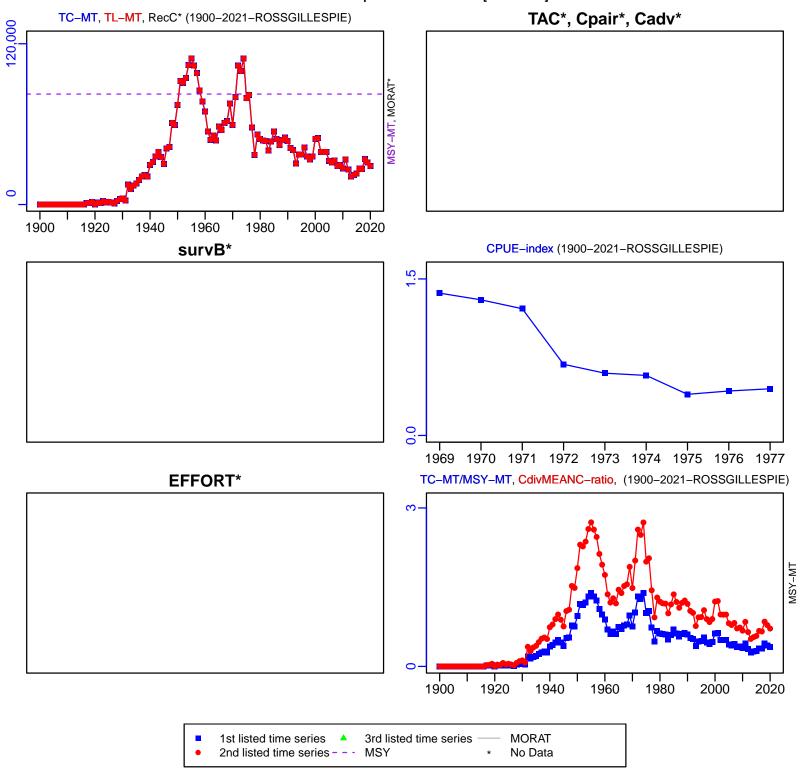
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2021	198,715	
SSBmsy	SSBmsy-MT	2021	95,675	
Fmsy	Fmsy-1/yr	2013	0.32	
ERmsy	ERmsy-ratio	2021	0.4	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2021	95,675	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2021	0.4	
TB0	TB0-MT	2021	777,623	
SSB0	SSB0-MT	2021	345,826	
MSY	MSY-MT	2021	79,486	
М	M-1/yr	2021	0.555	
TBlim	TBlim-MT	2013	43,000	
SSBlim	SSBlim-MT	2021	53,041	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2021	660,767	Both	0+
SSB	SSB-MT	2021	242,925	Females	-
TN	-	-	-	-	-
R	R-E00	2021	500,565,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2021	0.086	Both	0+
TC	TC-MT	2021	27,625		
TL	TL-MT	2021	27,625		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2021	3.325		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	2.539		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2021	0.212		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.539		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Shallow water cape hake South Africa [CHAKESA]



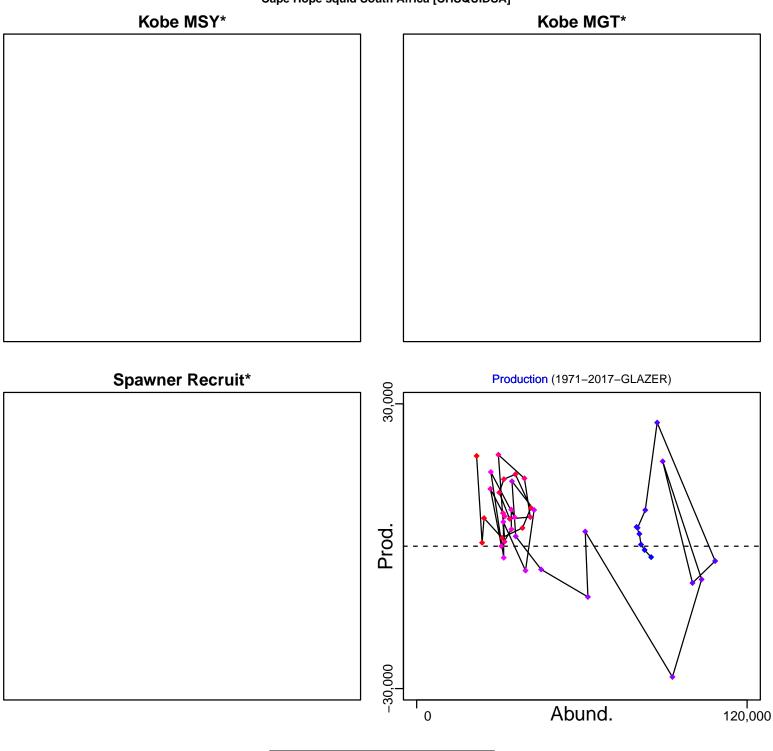


Cape Hope squid South Africa [CHSQUIDSA]

Metadata			
Scientific Name	Loligo reynaudii		
Current Assess ID	FBDAFF-CHSQUIDSA-1971-2017-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, 2017		

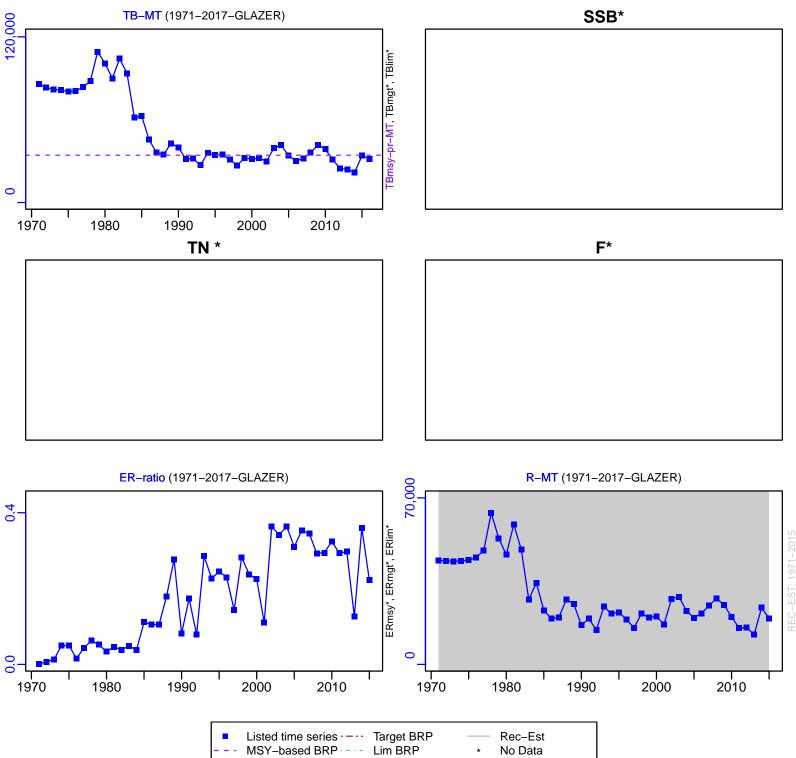
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-pr-MT	2017	34,059	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2017	85,146	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	31,424	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-MT	2017	19,244	Both	-
F	-	-	-	-	-
ER	ER-ratio	2017	0.202	Both	-
TC	TC-MT	2017	6812		
TL	TL-MT	2017	6812		
TB/TBmsy	TB-MT/TBmsy-pr-MT	2017	0.923		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



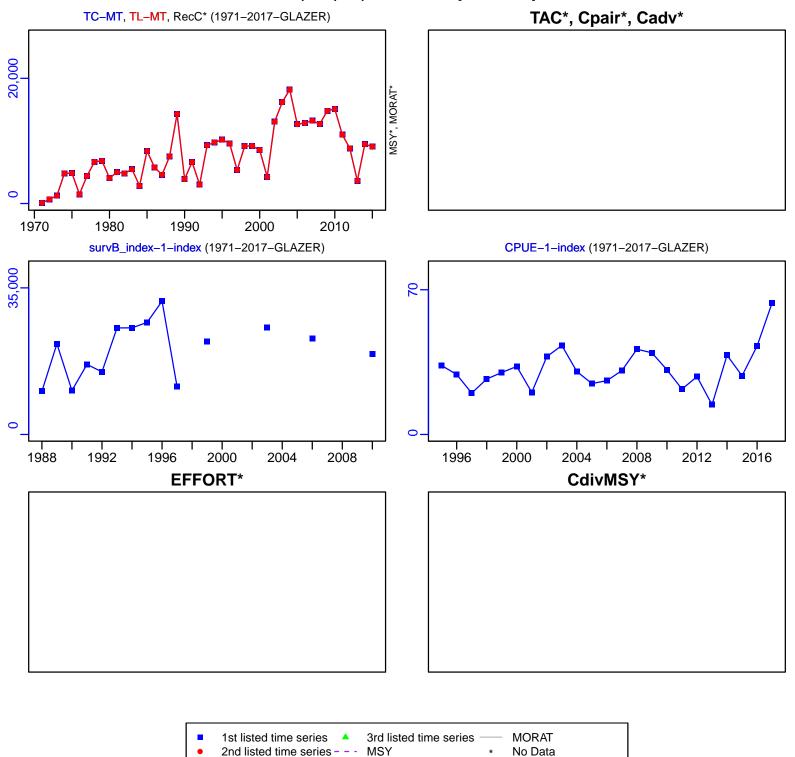
Start Year → End Year → No Data

Cape Hope squid South Africa [CHSQUIDSA]



No Data

Cape Hope squid South Africa [CHSQUIDSA]

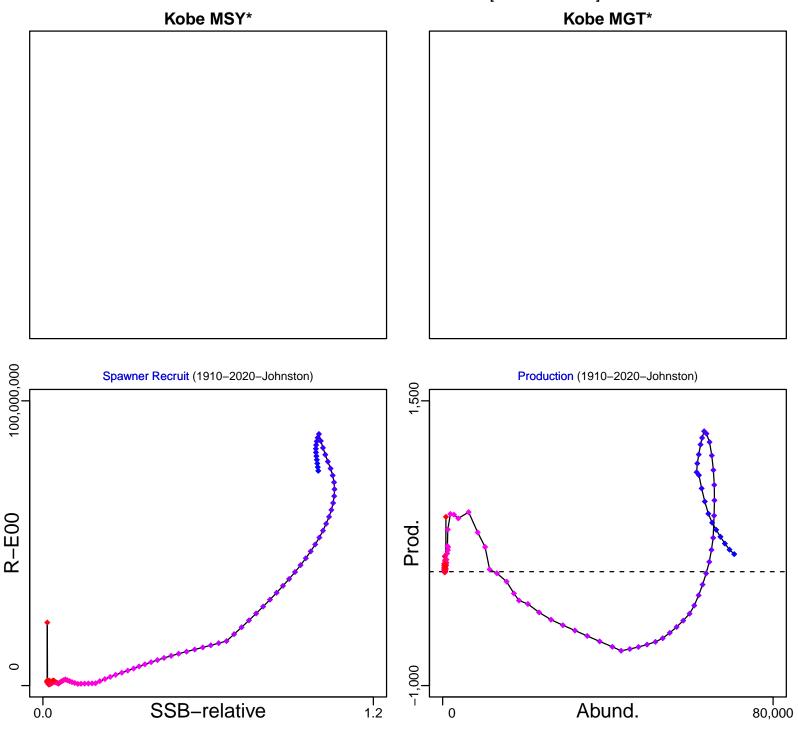


West coast rock lobster South Africa Areas 1-2 [CRLOBSTERSA12]

Metadata			
Scientific Name	Jasus lalandii		
Current Assess ID	MARAM-CRLOBSTERSA12-1910-2020-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, 2020		

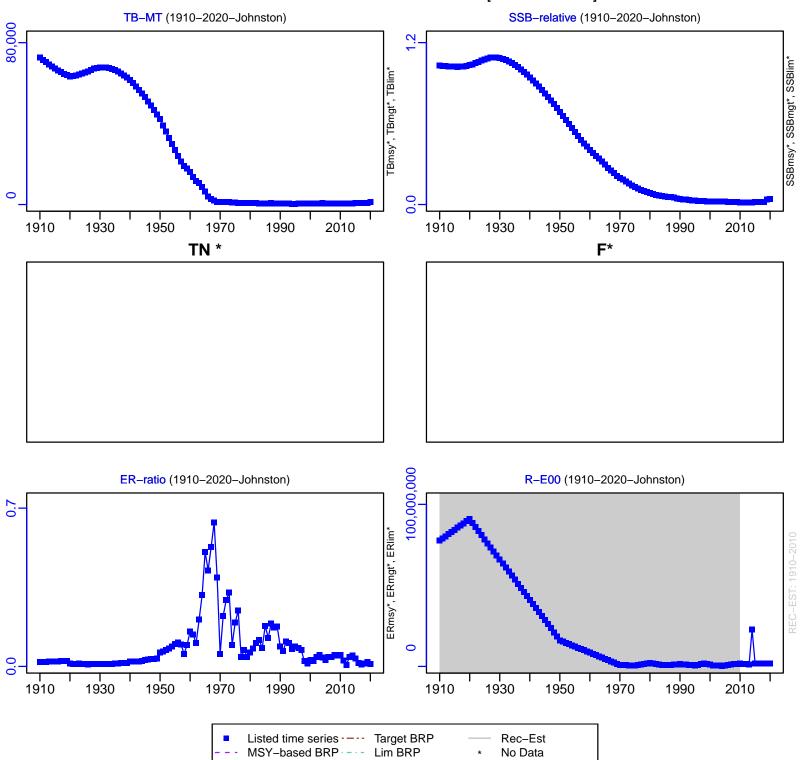
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2020	70,589		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2020	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	1261	Males	-
SSB	SSB-relative	2020	0.04	Females	-
TN	-	-	-	-	-
R	R-E00	2020	1,746,541	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.011	-	-
TC	TC-MT	2020	14		
TL	TL-MT	2020	14		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

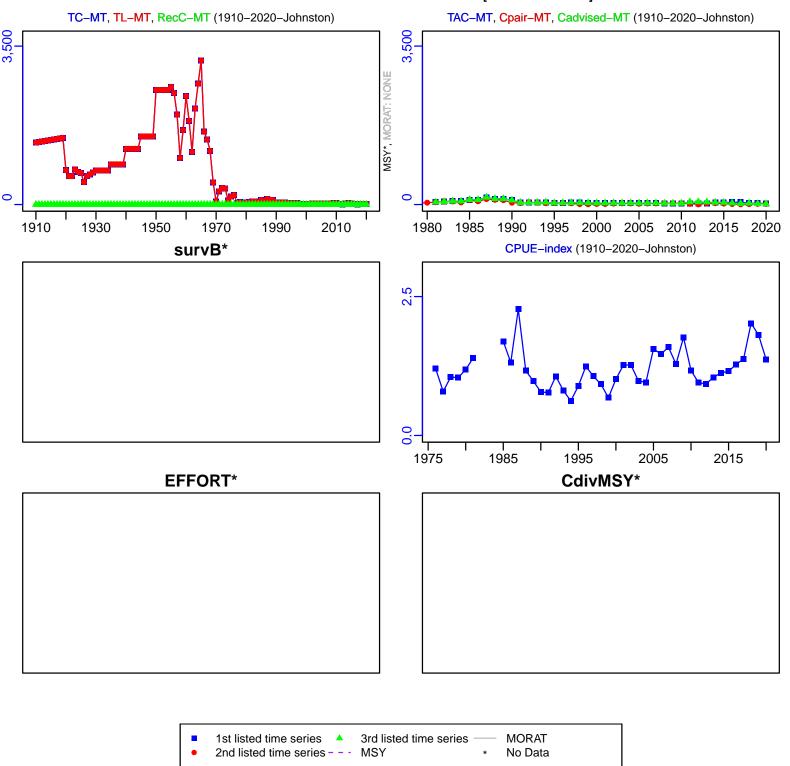


Start Year • End Year * No Data

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



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

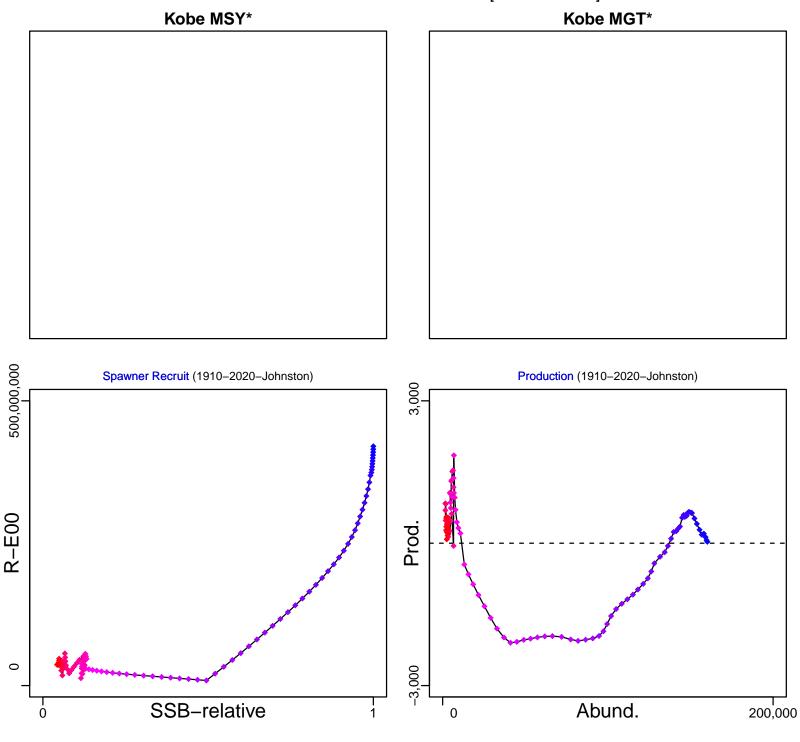


West coast rock lobster South Africa Areas 3-4 [CRLOBSTERSA34]

Metadata				
Scientific Name	Jasus lalandii			
Current Assess ID	MARAM-CRLOBSTERSA34-1910-2020-Johnston			
Area	South Africa Areas 3-4			
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, 2020			

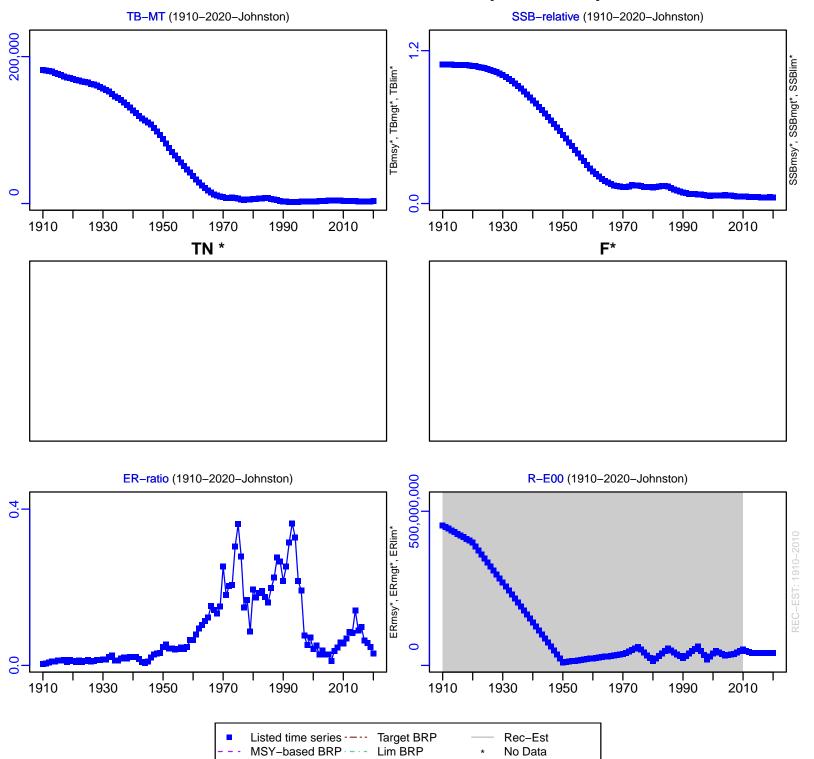
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2020	160,176		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2020	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	2846	Males	-
SSB	SSB-relative	2020	0.045	Females	-
TN	-	-	-	-	-
R	R-E00	2020	36,713,488	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.028	-	-
TC	TC-MT	2020	220		
TL	TL-MT	2020	81		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

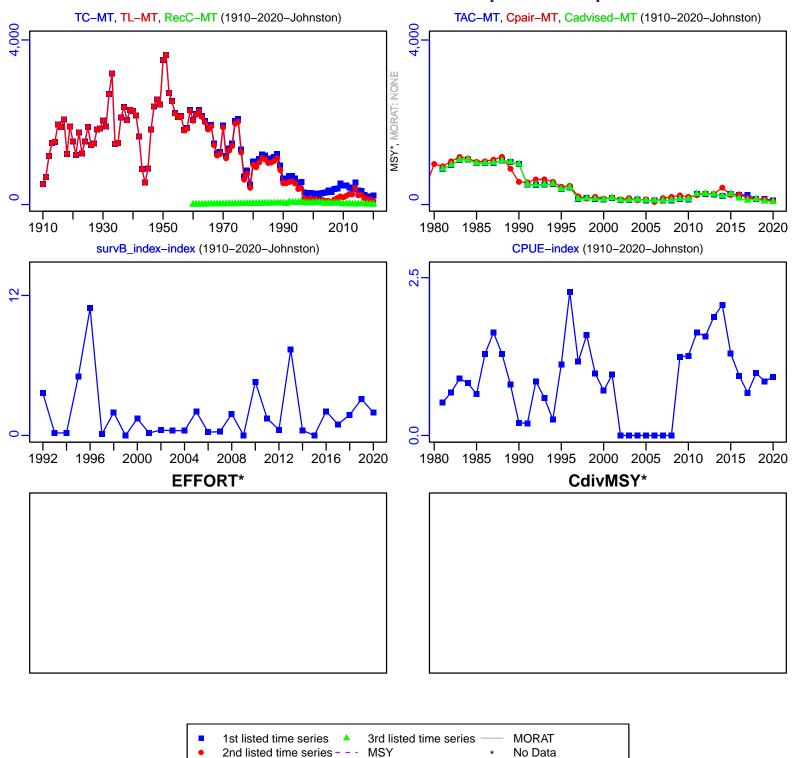


Start Year • End Year * No Data

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



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

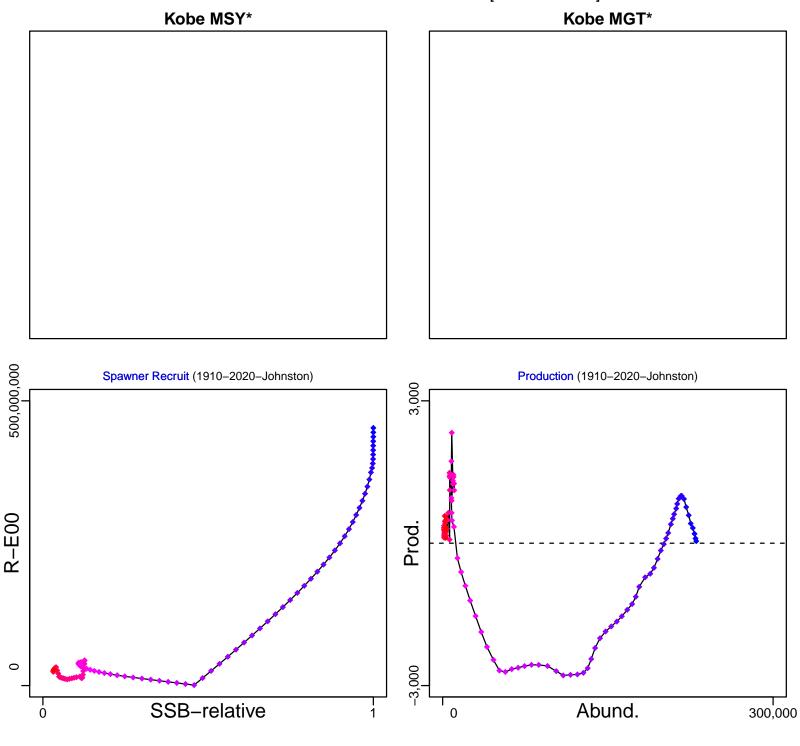


West coast rock lobster South Africa Areas 5-6 [CRLOBSTERSA56]

Metadata				
Scientific Name	Jasus lalandii			
Current Assess ID	MARAM-CRLOBSTERSA56-1910-2020-Johnston			
Area	South Africa Areas 5-6			
Management Authority	ority South African national management, Fisheries Branch of			
	Department of Agriculture, Forestry and Fisheries			
Assessor	ssor 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, 2020			

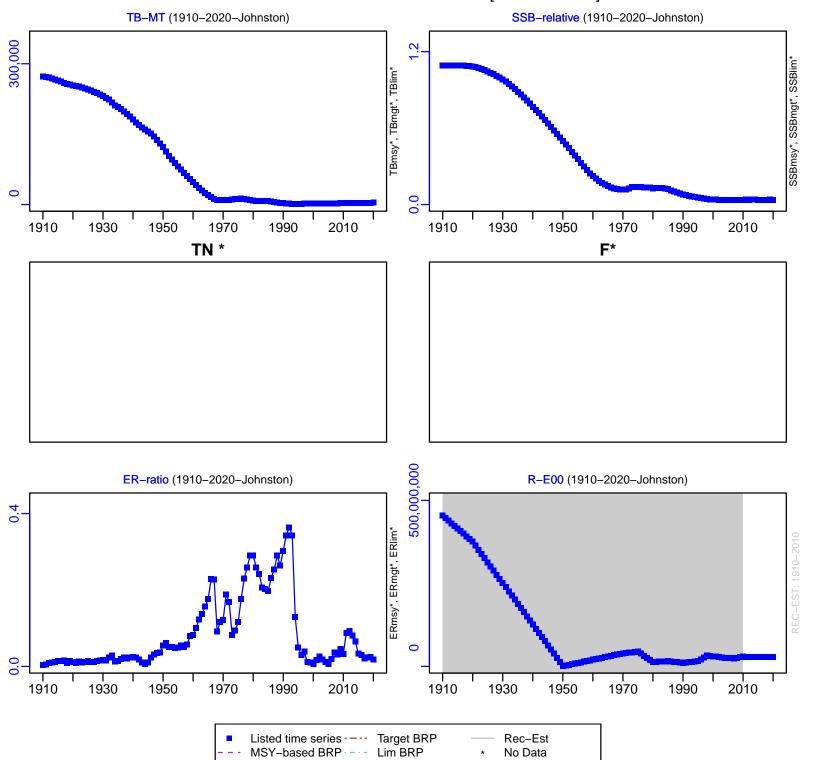
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2020	230,233		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2020	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	3352	Males	-
SSB	SSB-relative	2020	0.034	Females	-
TN	-	-	-	-	-
R	R-E00	2020	28,029,094	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.016	-	-
TC	TC-MT	2020	138		
TL	TL-MT	2020	54		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

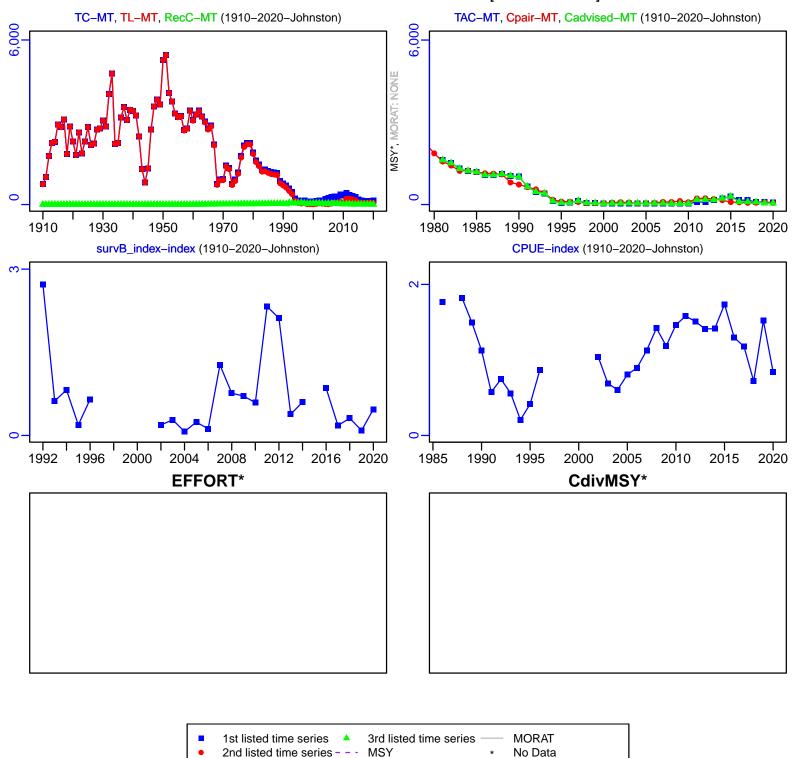


Start Year • End Year * No Data

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



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

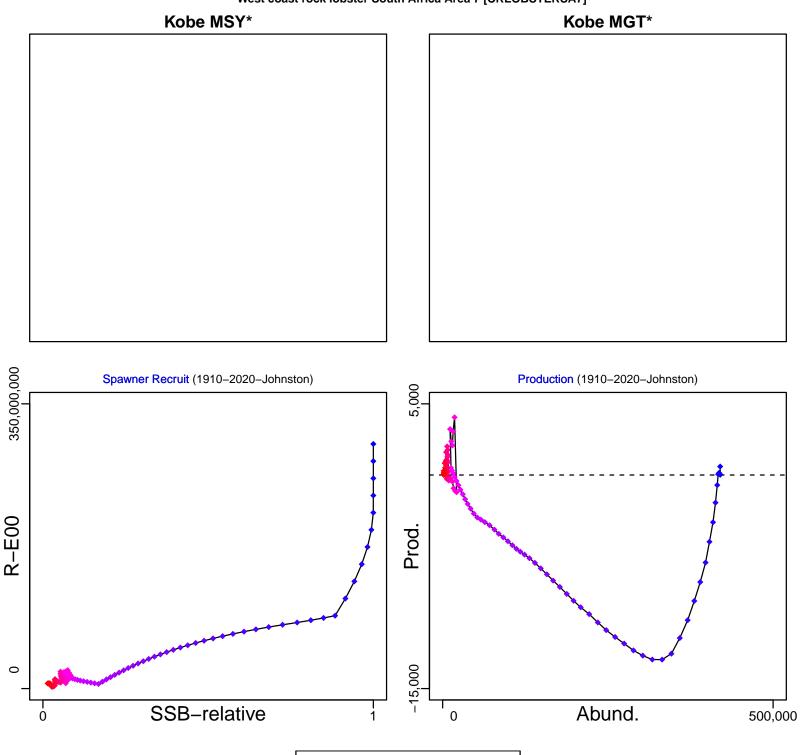


West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]

Metadata				
Scientific Name	Jasus lalandii			
Current Assess ID	MARAM-CRLOBSTERSA7-1910-2020-Johnston			
Area	South Africa Area 7			
Management Authority	t 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, 2020			

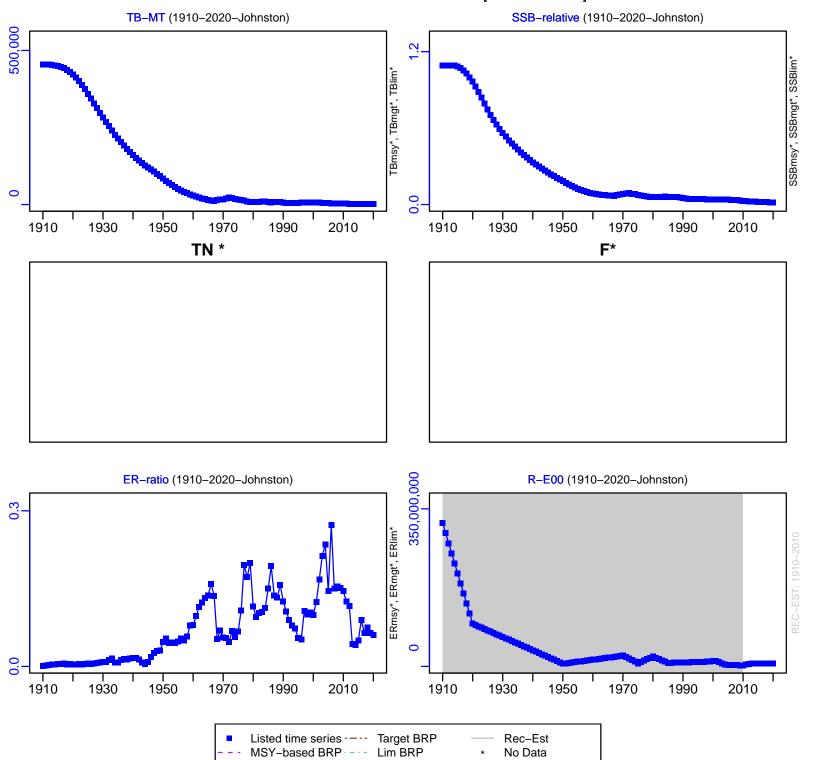
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2020	419,875		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2020	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	1450	Males	-
SSB	SSB-relative	2020	0.015	Females	-
TN	-	-	-	-	-
R	R-E00	2020	6,361,961	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.057	-	-
TC	TC-MT	2020	172		
TL	TL-MT	2020	82		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

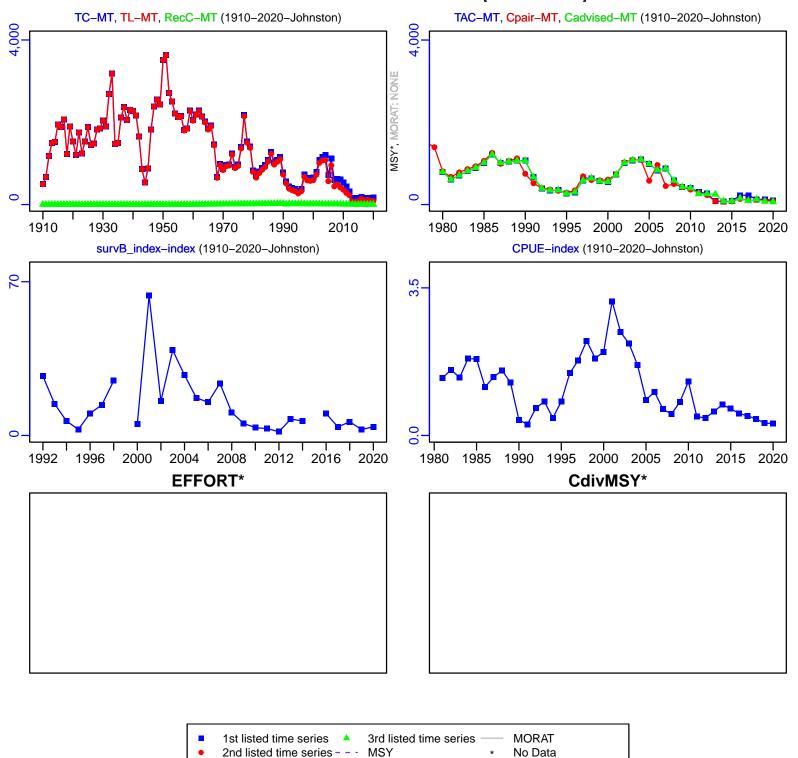


Start Year ◆ End Year * No Data

West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]



West coast rock lobster South Africa Area 7 [CRLOBSTERSA7]

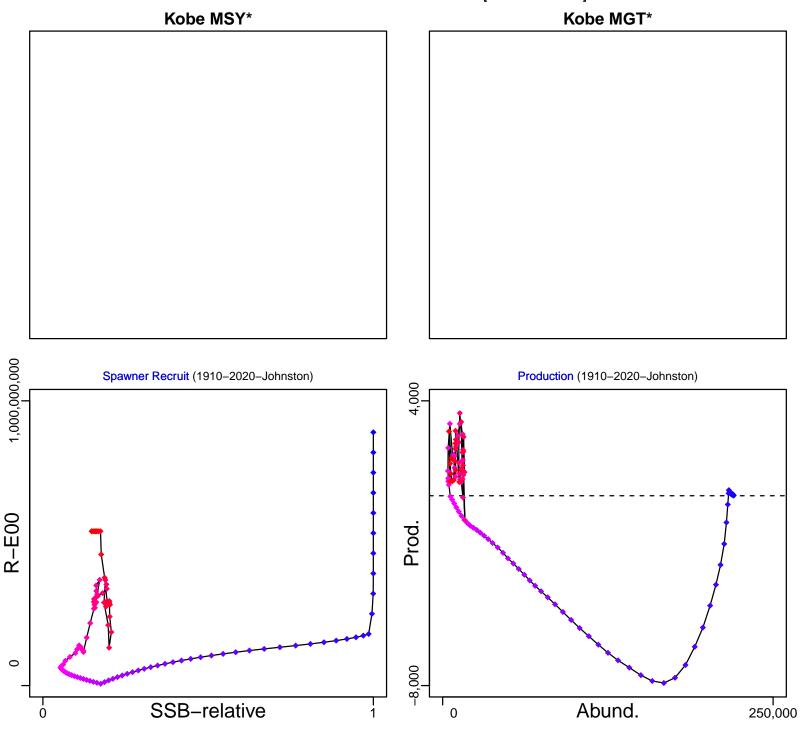


West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]

Metadata				
Scientific Name	Jasus lalandii			
Current Assess ID	MARAM-CRLOBSTERSA8-1910-2020-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, 2020			

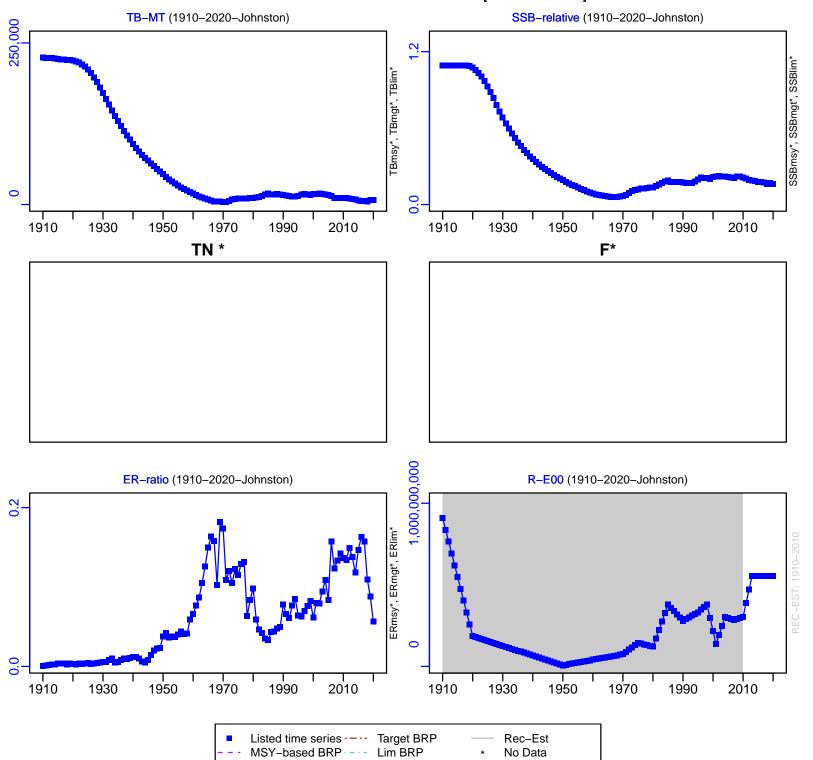
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2020	220,174		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2020	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2020	6655	Males	-		
SSB	SSB-relative	2020	0.147	Females	-		
TN	-	-	-	-	-		
R	R-E00	2020	541,906,576	-	-		
F	-	-	-	-	-		
ER	ER-ratio	2020	0.054	-	-		
TC	TC-MT	2020	1199				
TL	TL-MT	2020	359				
TB/TBmsy	-	-	-				
SSB/SSBmsy	-	-	-				
F/Fmsy	-	-	-				
ER/ERmsy	-	-	-				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

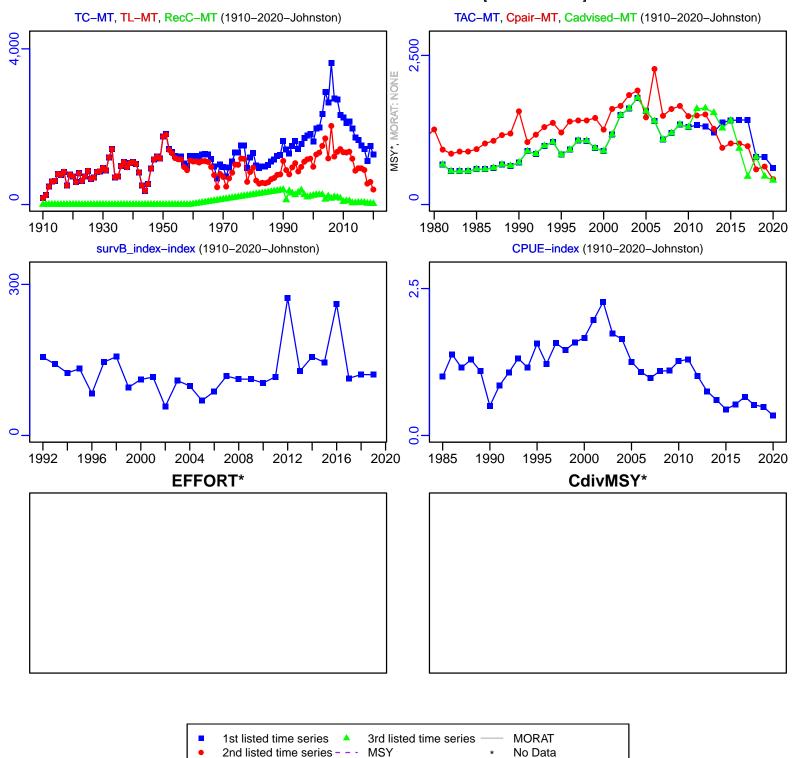


Start Year • End Year * No Data

West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]



West coast rock lobster South Africa Area 8 [CRLOBSTERSA8]



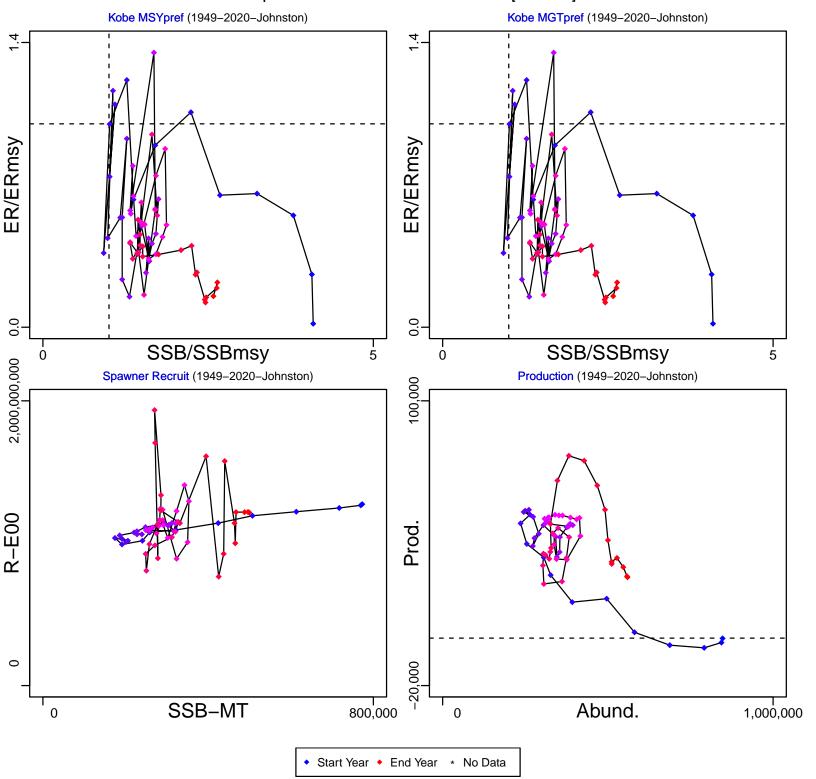
Cape horse mackerel South Africa South coast [CTRACSA]

Metadata				
Scientific Name	Trachurus capensis			
Current Assess ID	MARAM-CTRACSA-1949-2020-Johnston			
Area	South Africa South coast			
Management Authority	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, 2020			

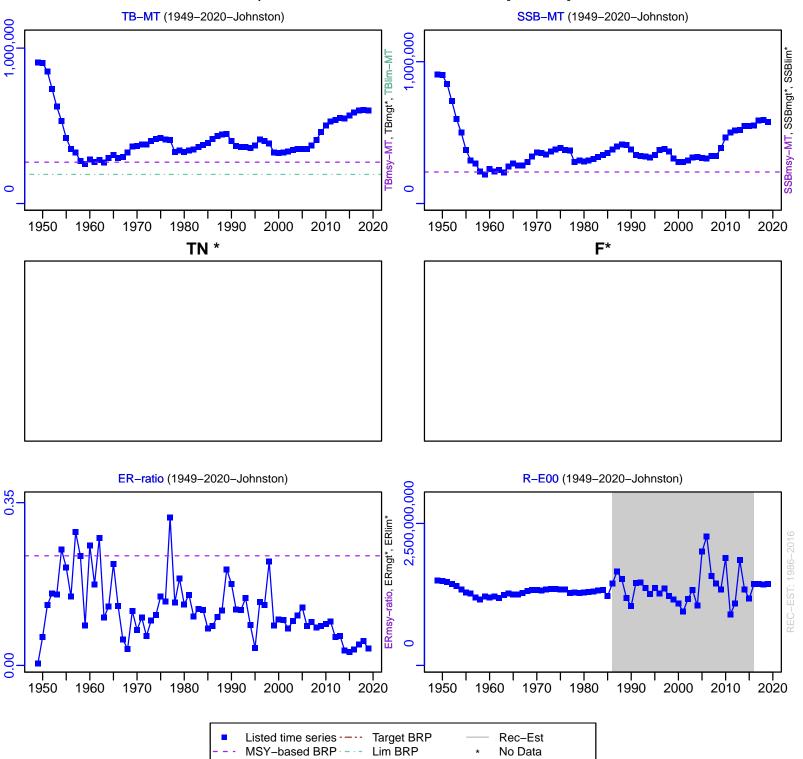
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2020	247,929		
SSBmsy	SSBmsy-MT	2020	189,115		
Fmsy	Fmsy-1/yr	2020	0.19		
ERmsy	ERmsy-ratio	2020	0.23		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2020	847,122		
SSB0	SSB0-MT	2020	773,044		
MSY	MSY-MT	2020	56,066		
М	M-1/yr	2020	0.3		
TBlim	TBlim-MT	2020	174,526		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2020	556,646	-	0+	
SSB	SSB-MT	2020	488,226	-	3+	
TN	-	-	-	-	-	
R	R-E00	2020	1,217,793,074	-	0	
F	-	-	-	-	-	
ER	ER-ratio	2020	0.035	-	-	
TC	TC-MT	2020	19,542			
TL	TL-MT	2020	19,542			
TB/TBmsy	TBdivTBmsy-dimensionless	2020	2.25			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	2.58			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2020	0.153			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Cape horse mackerel South Africa South coast [CTRACSA]

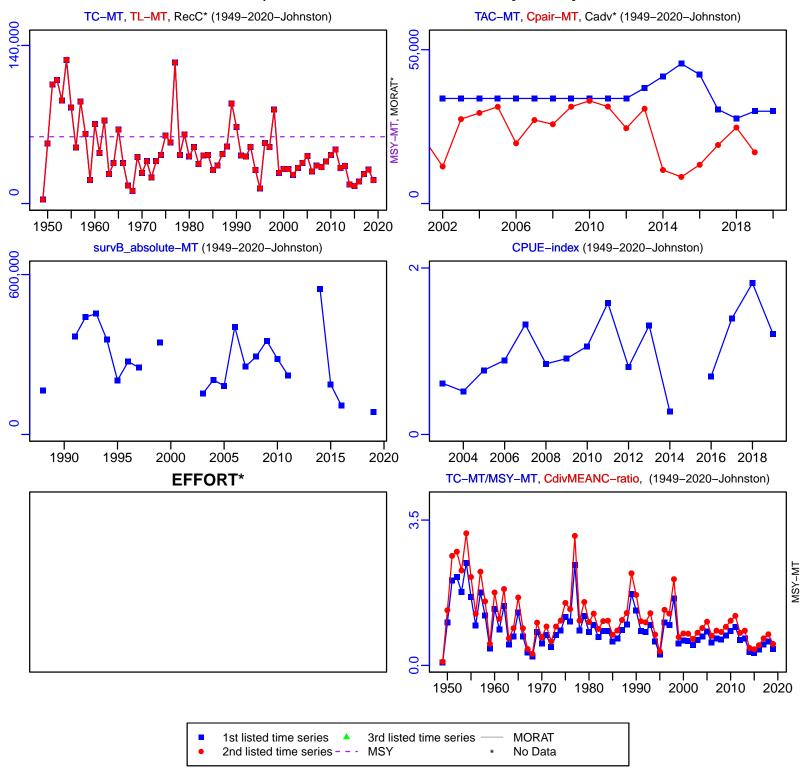


Cape horse mackerel South Africa South coast [CTRACSA]



No Data

Cape horse mackerel South Africa South coast [CTRACSA]

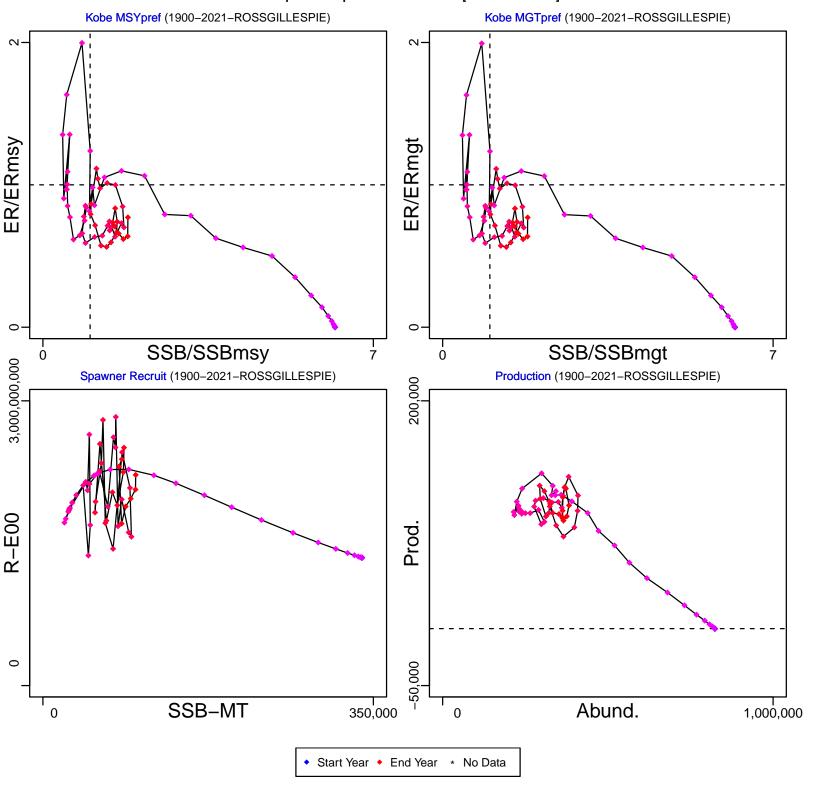


Deep water cape hake South Africa [DEEPCHAKESA]

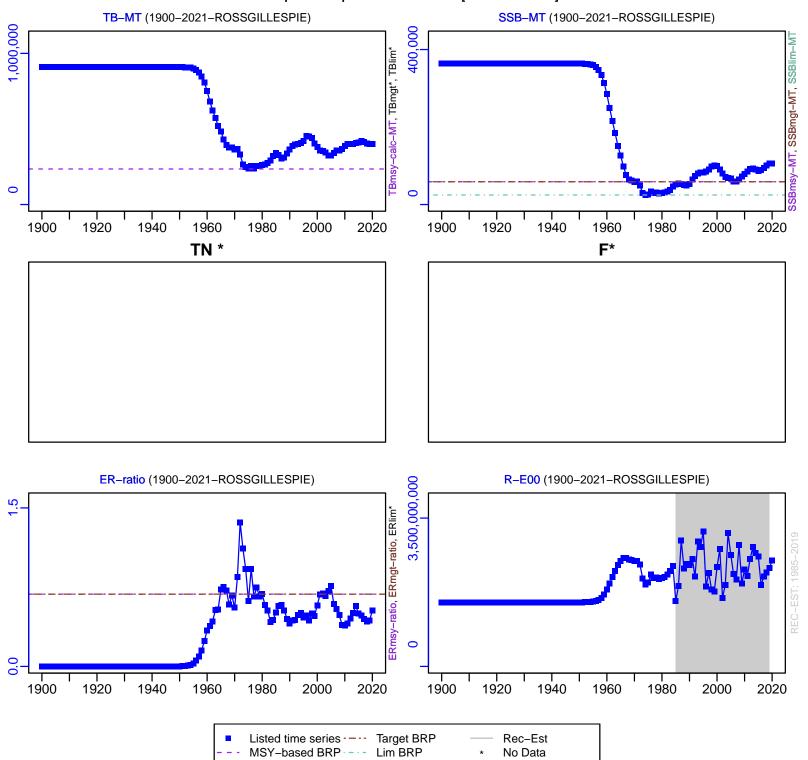
Metadata					
Scientific Name	Merluccius paradoxus				
Current Assess ID	MARAM-DEEPCHAKESA-1900-2021-ROSSGILLESPIE				
Area	Area South Africa				
Management Authority South African national management, Fisheries Branch of					
	Department of Agriculture, Forestry and Fisheries				
Assessor Marine Resource Assessment and Management Group, Departmen					
	Mathematics and Applied Mathematics, University of Cape Town,				
	Rondebosch, 7701, South Africa				
Asmts in RAM	2021, 2013, 2015				

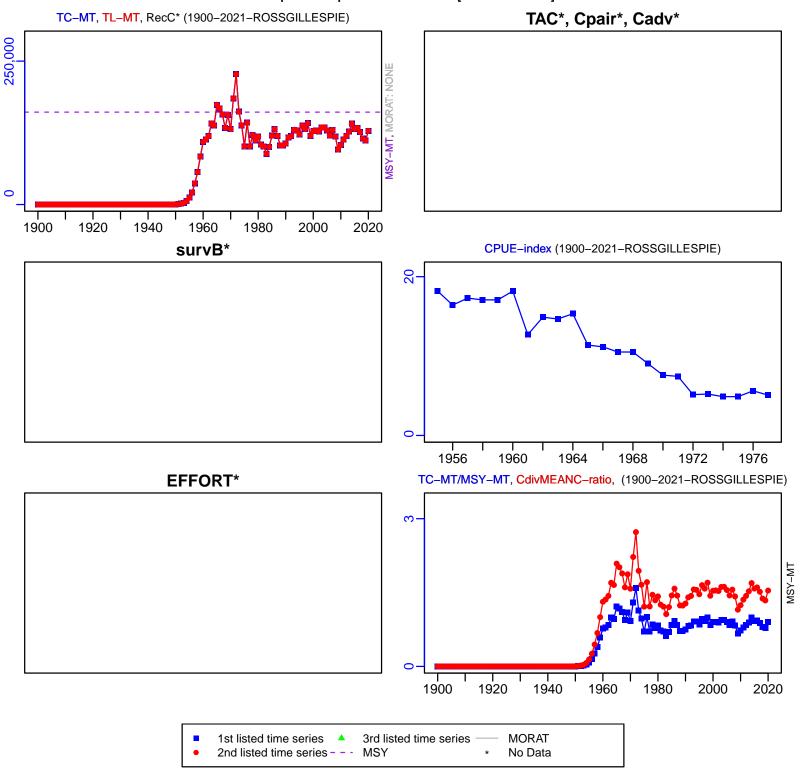
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2021	213,089	
SSBmsy	SSBmsy-MT	2021	54,592	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2021	0.65	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2021	54,592	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2021	0.65	
TB0	TB0-MT	2021	823,978	
SSB0	SSB0-MT	2021	337,964	
MSY	MSY-MT	2021	138,508	
М	M-1/yr	2021	0.52	
TBlim	TBlim-MT	2013	60,000	
SSBlim	SSBlim-MT	2021	22,825	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2021	363,527	Both	0+
SSB	SSB-MT	2021	98,302	Females	-
TN	-	-	-	-	-
R	R-E00	2021	2,219,440,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2021	0.501	Both	0+
TC	TC-MT	2021	110,377		
TL	TL-MT	2021	110,377		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2021	1.706		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	1.801		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2021	0.771		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	1.801		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Deep water cape hake South Africa [DEEPCHAKESA]



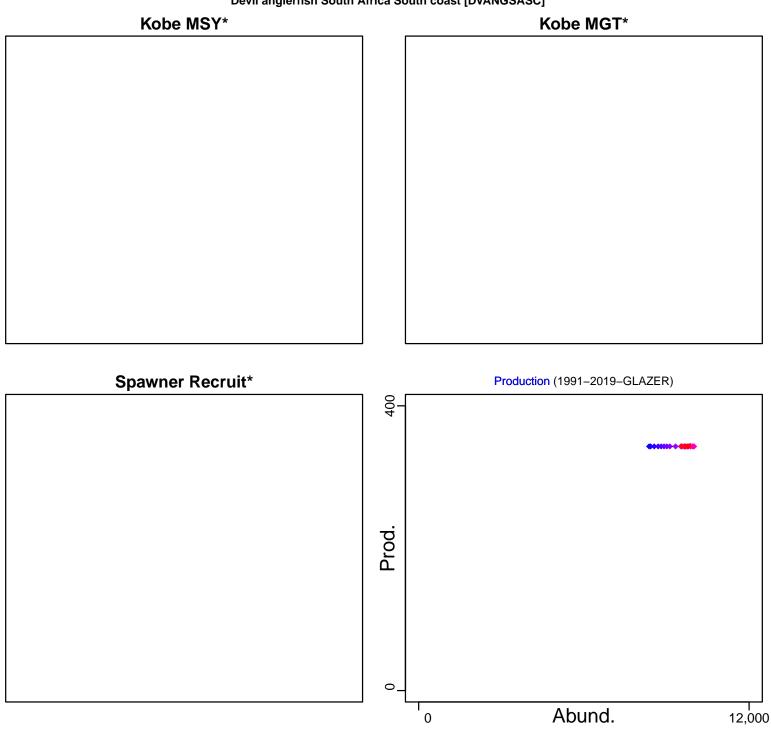


Devil anglerfish South Africa South coast [DVANGSASC]

Metadata			
Scientific Name	Lophius vomerinus		
Current Assess ID	DEFF-DVANGSASC-1991-2019-GLAZER		
Area South Africa South coast			
Management Authority	Department of Environment, Forestry and Fisheries		
Assessor	Department of Environment, Forestry and Fisheries		
Asmts in RAM	2019		

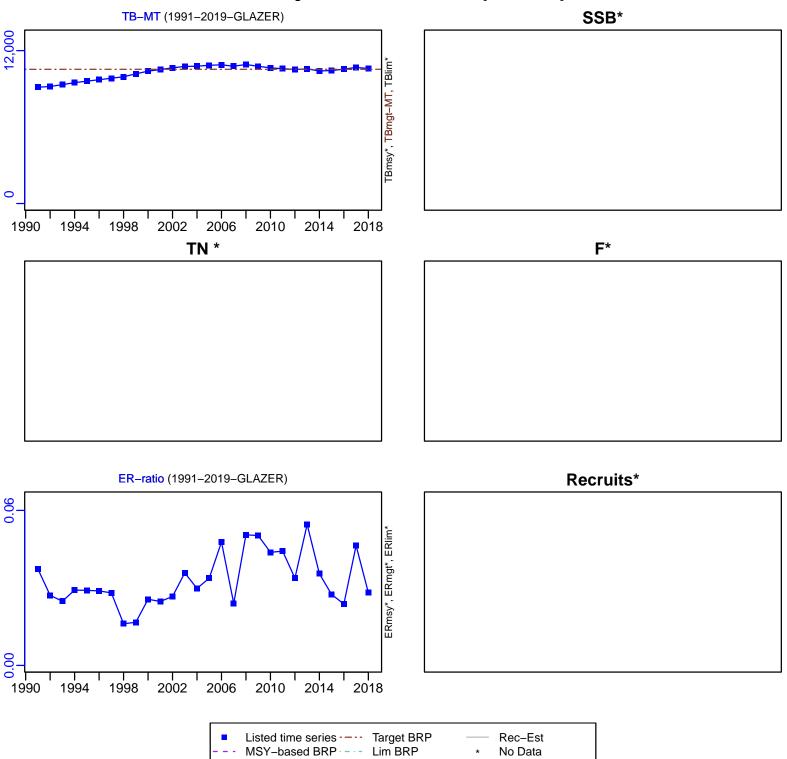
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	TBmgt-MT	2019	9658	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	9717	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.026	-	-
TC	TC-MT	2019	255		
TL	TL-MT	2019	255]	
TB/TBmsy	-	-	-]	
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	TBdivTBmgt-dimensionless	2019	1.006		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

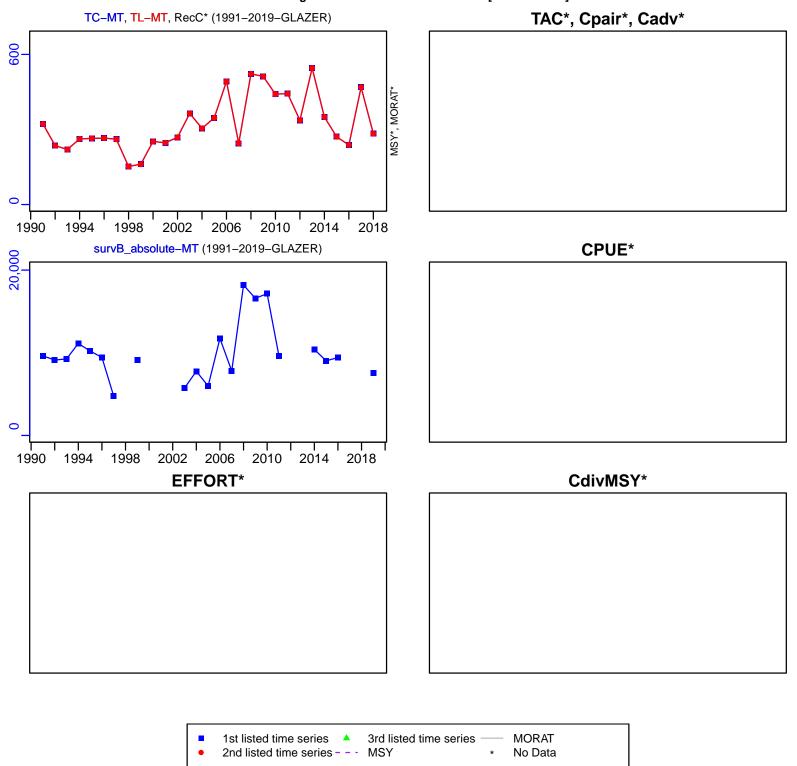


Start Year ◆ End Year * No Data

Devil anglerfish South Africa South coast [DVANGSASC]



Devil anglerfish South Africa South coast [DVANGSASC]

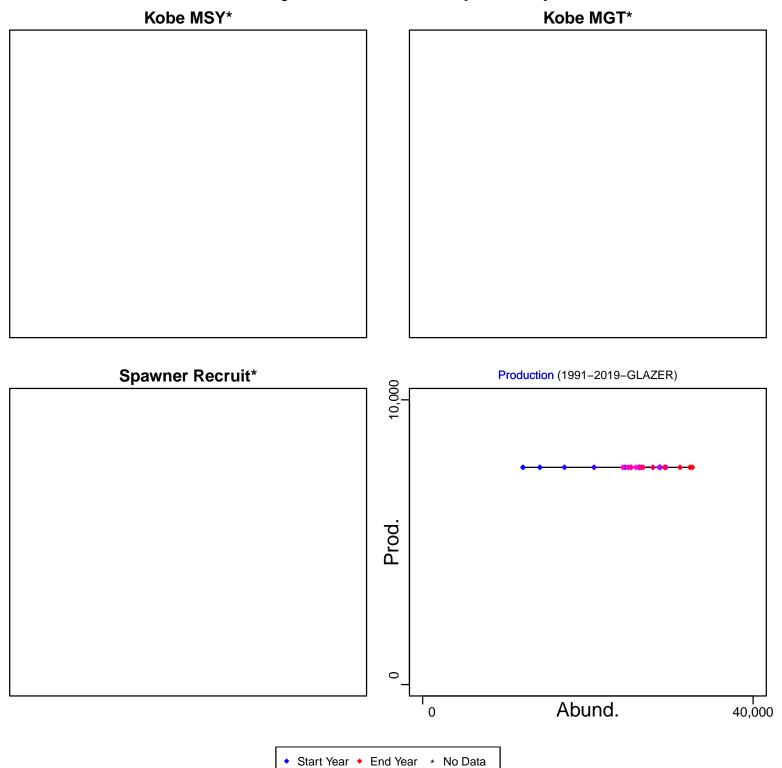


Devil anglerfish South Africa West coast [DVANGSAWC]

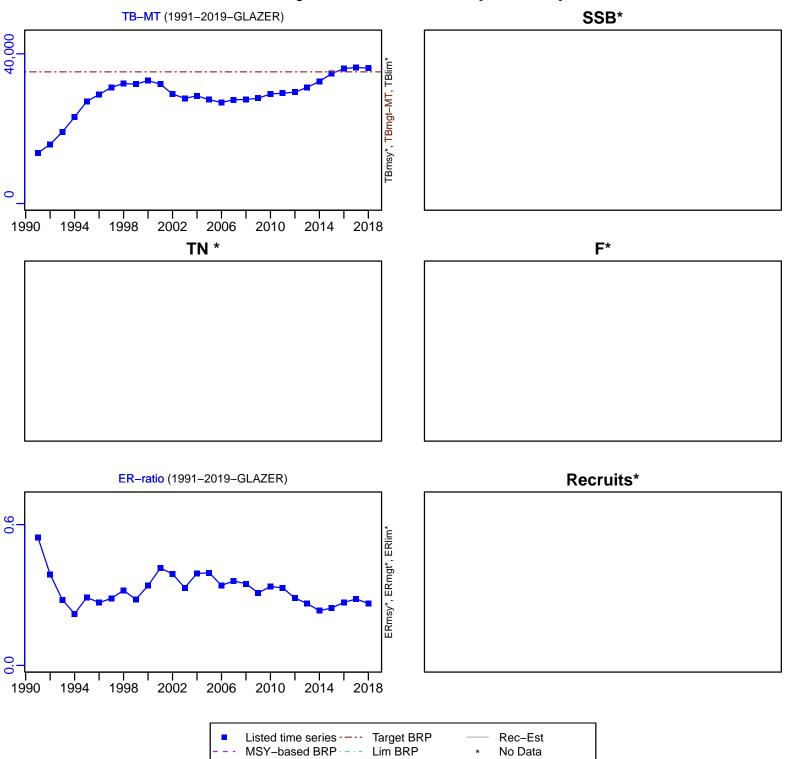
Metadata			
Scientific Name	Lophius vomerinus		
Current Assess ID DEFF-DVANGSAWC-1991-2019-GLAZER			
Area South Africa West coast			
Management Authority	Department of Environment, Forestry and Fisheries		
Assessor	Department of Environment, Forestry and Fisheries		
Asmts in RAM	2019		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	TBmgt-MT	2019	31,583	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

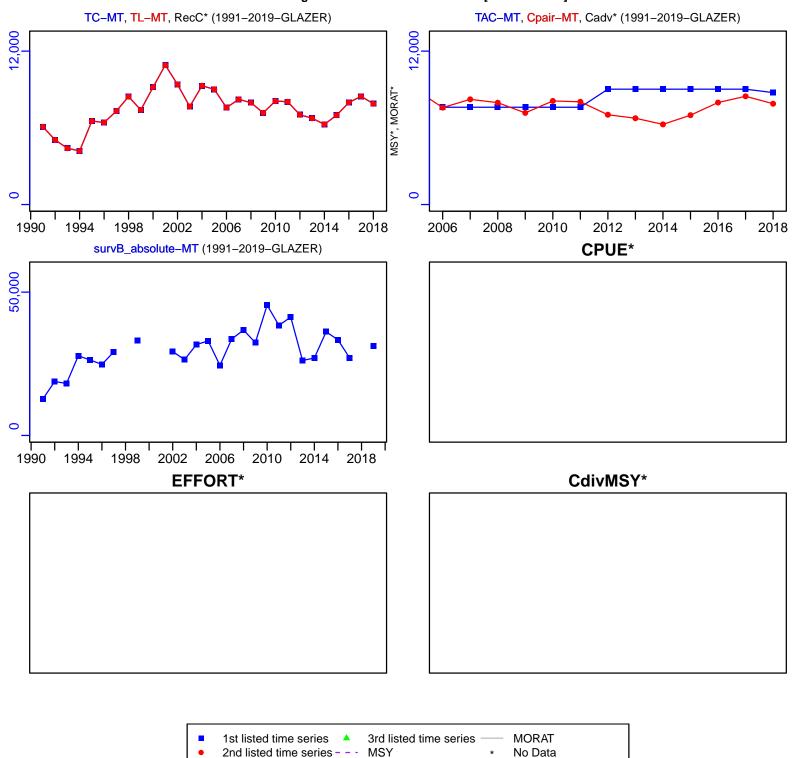
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	32,484	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.223	-	-
TC	TC-MT	2019	7253		
TL	TL-MT	2019	7253]	
TB/TBmsy	-	-	-]	
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	TBdivTBmgt-dimensionless	2019	1.029		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Devil anglerfish South Africa West coast [DVANGSAWC]



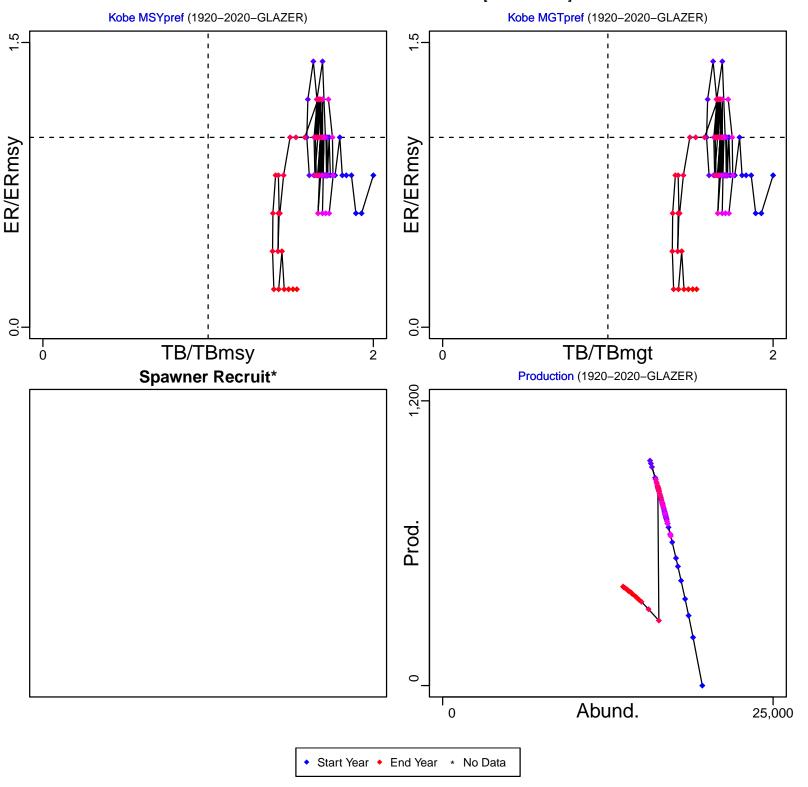
Devil anglerfish South Africa West coast [DVANGSAWC]

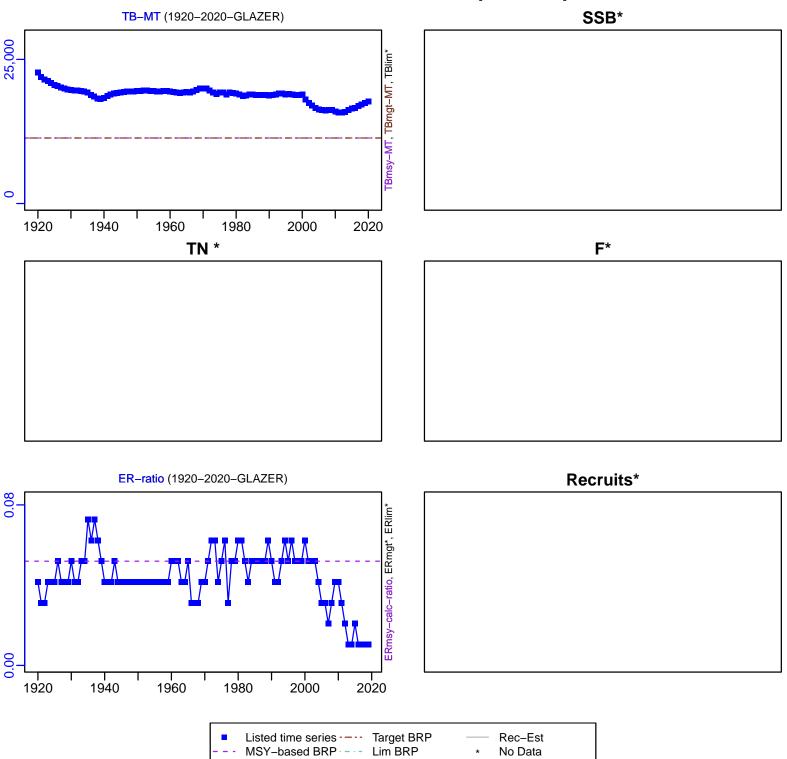


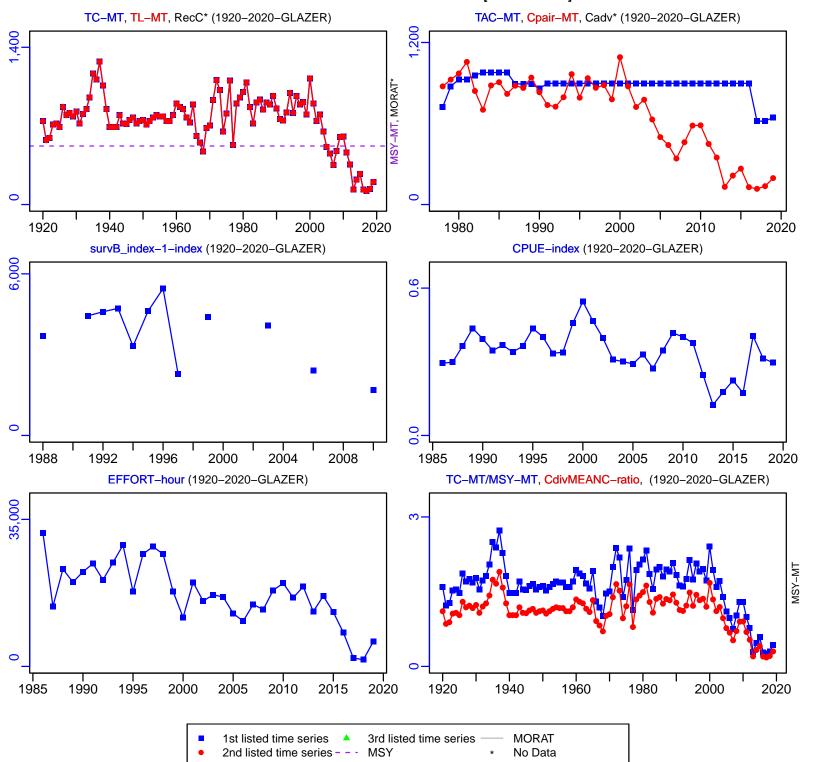
Metadata			
Scientific Name	Austroglossus pectoralis		
Current Assess ID FBDAFF-ECSOLESASC-1920-2020-GLAZER			
Area South Africa South coast			
Management Authority	South African national management, Fisheries Branch of Department of Agriculture, Forestry and Fisheries		
Assessor Fisheries Branch of Department of Agriculture, Forestry and Fisheries			
Asmts in RAM	2020		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2020	9822	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2020	0.05	
TBmgt	TBmgt-MT	2020	9822	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2020	491	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	15,258	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.01	Both	-
TC	TC-MT	2020	190		
TL	TL-MT	2020	190		
TB/TBmsy	TB-MT/TBmsy-MT	2020	1.553		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2020	0.2		
TB/TBmgt	TB-MT/TBmgt-MT	2020	1.553		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





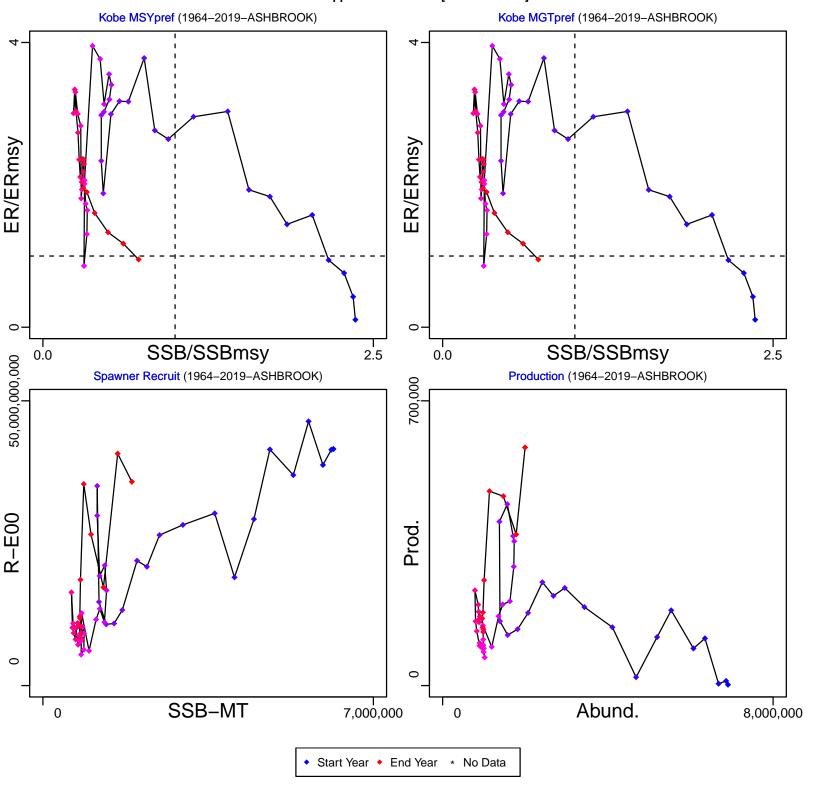


Hake spp Southern Africa [HAKESPPSAF]

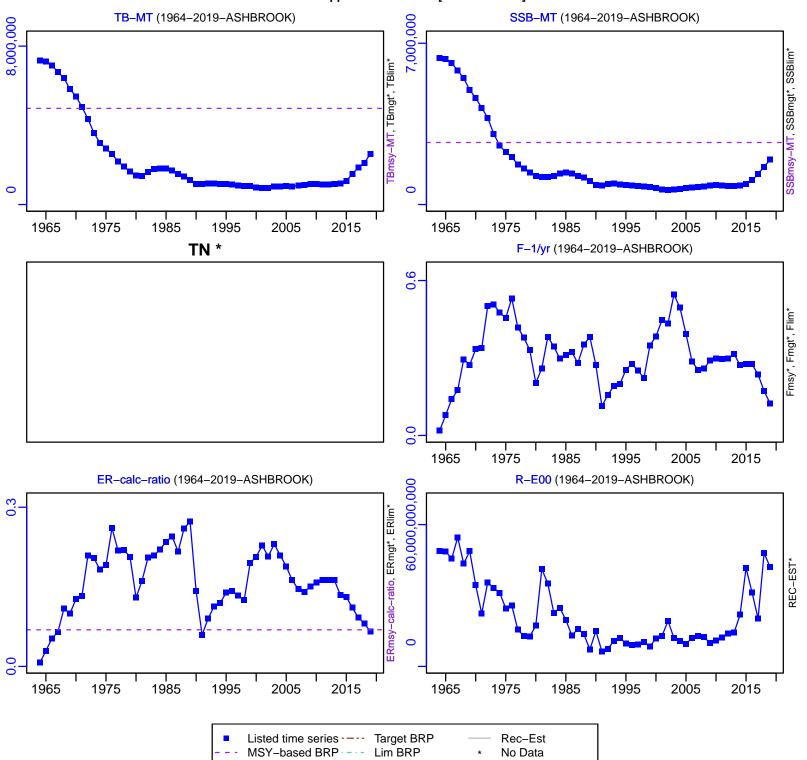
Metadata			
Scientific Name	Merluccius spp		
Current Assess ID NatMIRC-HAKESPPSAF-1964-2019-ASHBROOM			
Area Southern Africa			
Management Authority Ministry of Fisheries and Marine Resources			
Assessor National Marine Information and Research Centr			
Asmts in RAM	2019		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2019	4,611,710	
SSBmsy	SSBmsy-MT	2019	2,603,270	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2019	0.066	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	303,687	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

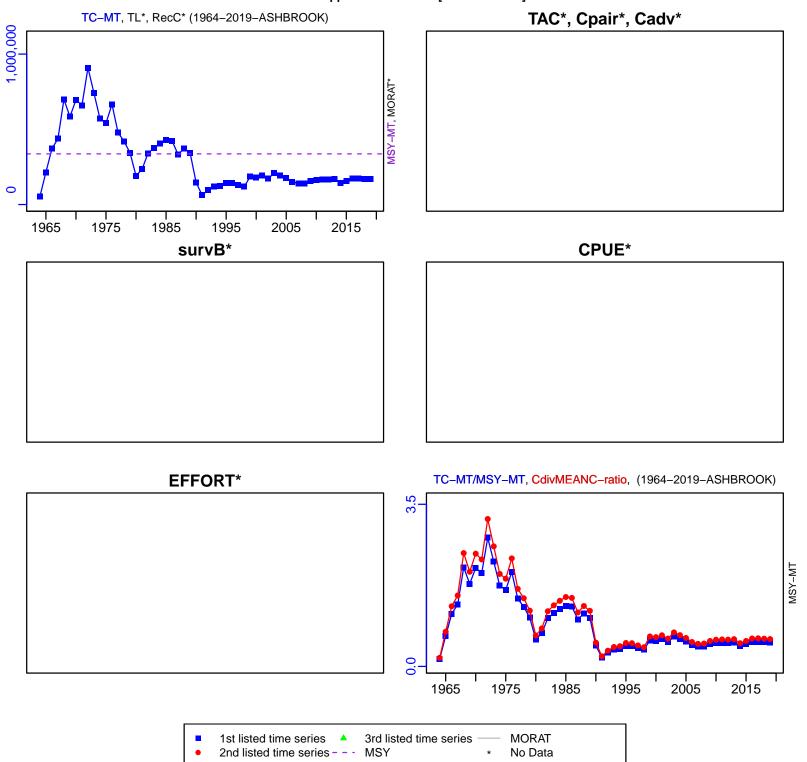
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	2,426,180	-	-
SSB	SSB-MT	2019	1,884,330	-	4+
TN	-	-	-	-	-
R	R-E00	2019	35,792,400,000	-	0
F	F-1/yr	2019	0.115	-	-
ER	ER-calc-ratio	2019	0.063	-	-
TC	TC-MT	2019	152,033		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2019	0.526		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.724		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2019	0.952		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Hake spp Southern Africa [HAKESPPSAF]



Hake spp Southern Africa [HAKESPPSAF]

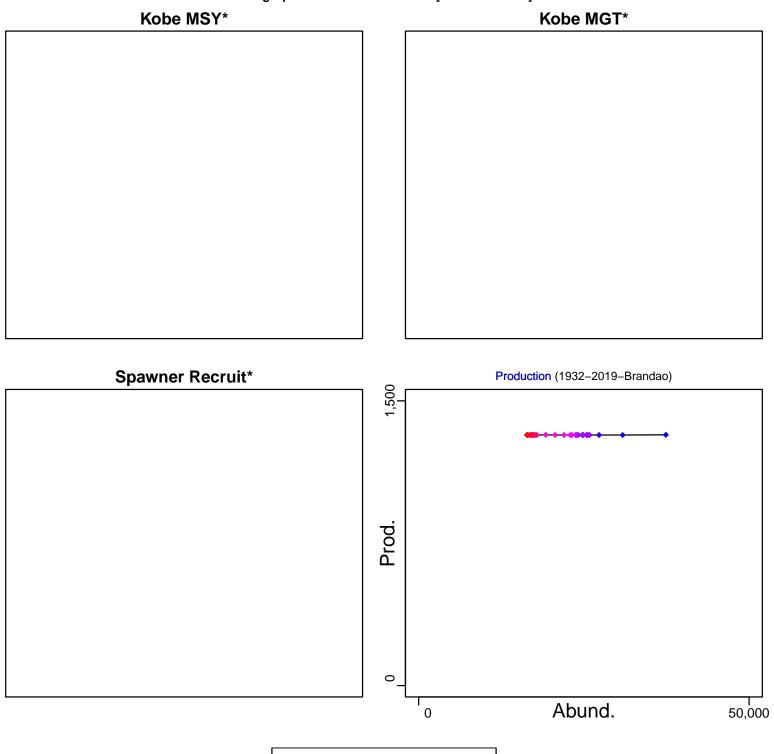


Kingklip South Africa South coast [KINGKLIPSASC]

Metadata						
Scientific Name	Genypterus capensis					
Current Assess ID	MARAM-KINGKLIPSASC-1932-2019-Brandao					
Area South Africa South coast						
Management Authority						
	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	2019					

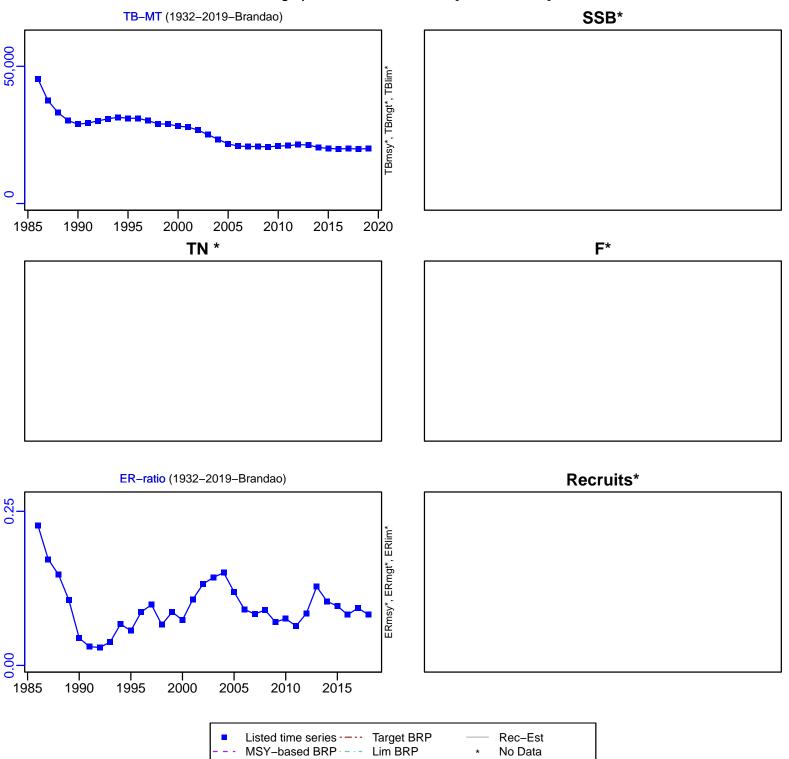
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2019	50,408		
SSB0	-	-	-		
MSY	MSY-MT	2019	1152		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	16,445	-	0+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.076	-	-
TC	TC-MT	2019	1241		
TL	TL-MT	2019	1241		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

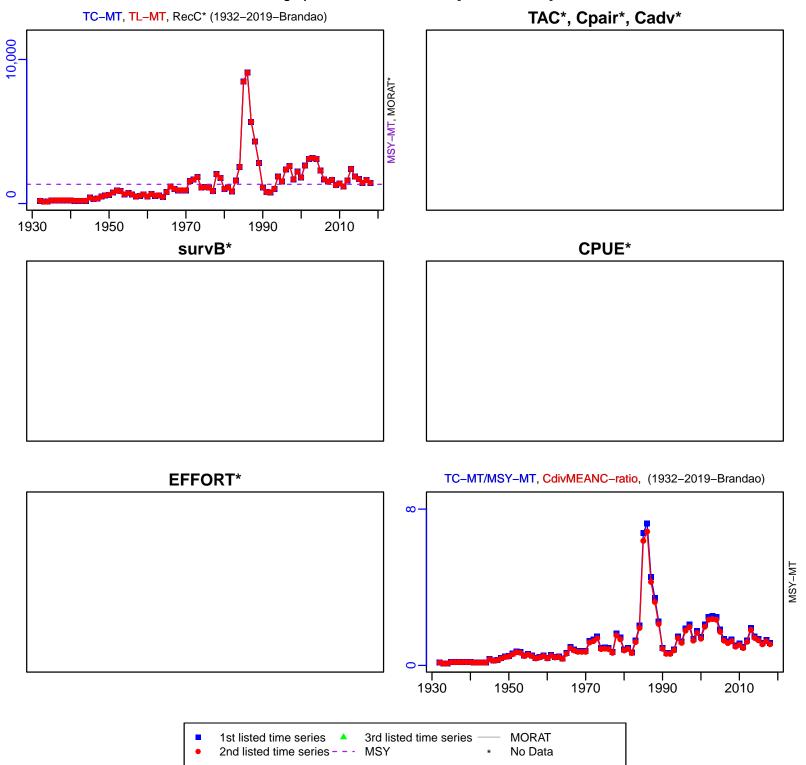


Start Year ◆ End Year * No Data

Kingklip South Africa South coast [KINGKLIPSASC]



Kingklip South Africa South coast [KINGKLIPSASC]

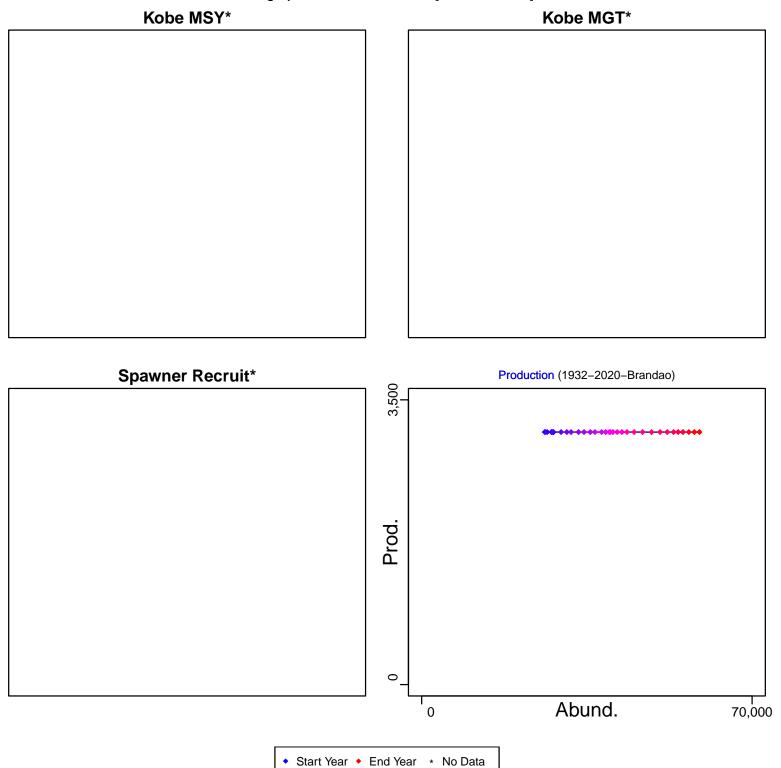


Kingklip South Africa West coast [KINGKLIPSAWC]

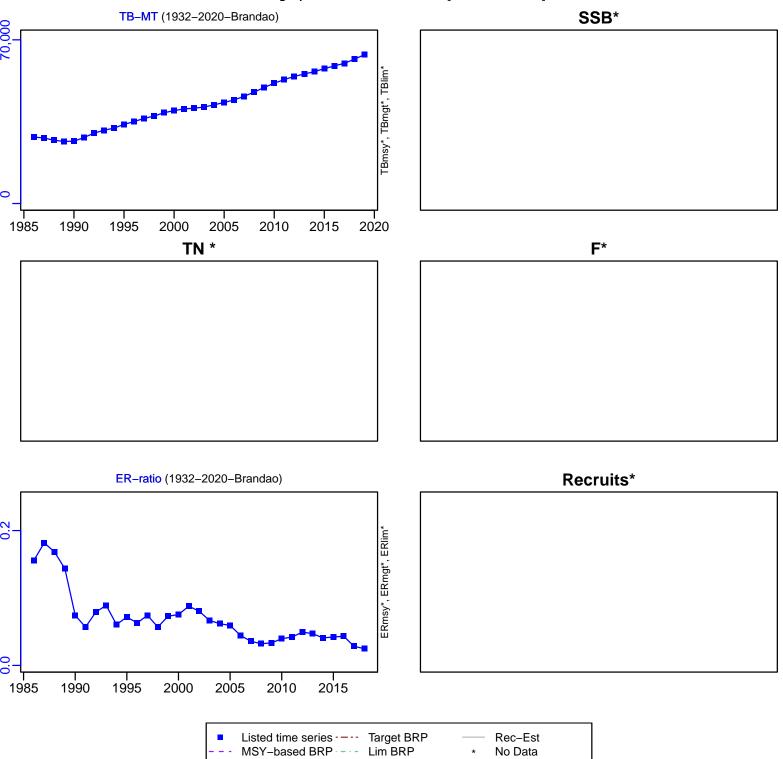
Metadata						
Scientific Name	Genypterus capensis					
Current Assess ID	MARAM-KINGKLIPSAWC-1932-2020-Brandao					
Area	Area South Africa West coast					
Management Authority South African national management, Fisheries Branch of						
	Department of Agriculture, Forestry and Fisheries					
Assessor Marine Resource Assessment and Management Group, Department						
	Mathematics and Applied Mathematics, University of Cape Town,					
	Rondebosch, 7701, South Africa					
Asmts in RAM	2020					

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2020	30,286		
SSB0	-	-	-		
MSY	MSY-MT	2020	3218		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	62,463	-	0+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.02	-	-
TC	TC-MT	2020	1206		
TL	TL-MT	2020	1206		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

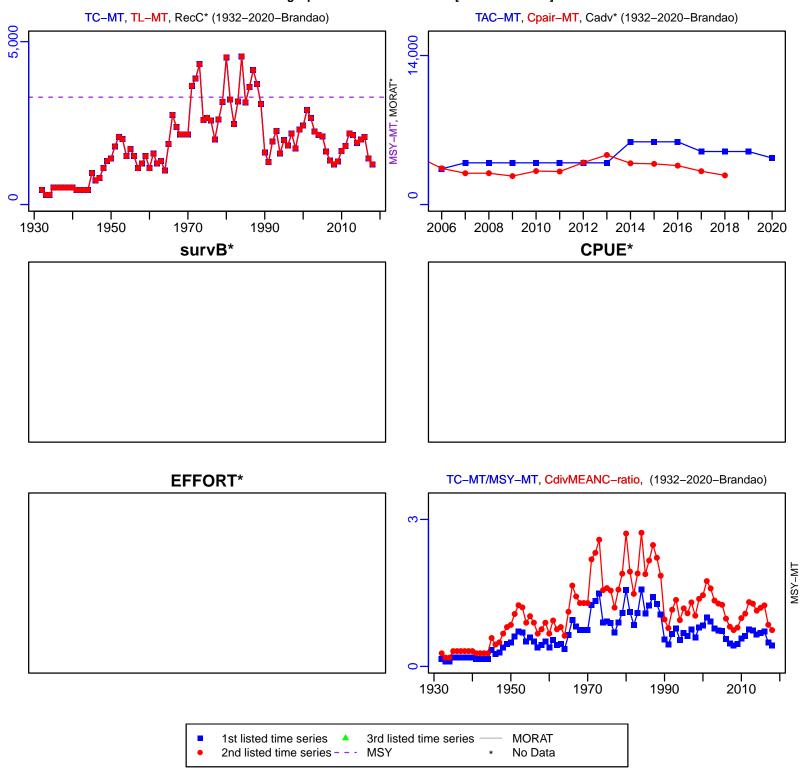


Kingklip South Africa West coast [KINGKLIPSAWC]



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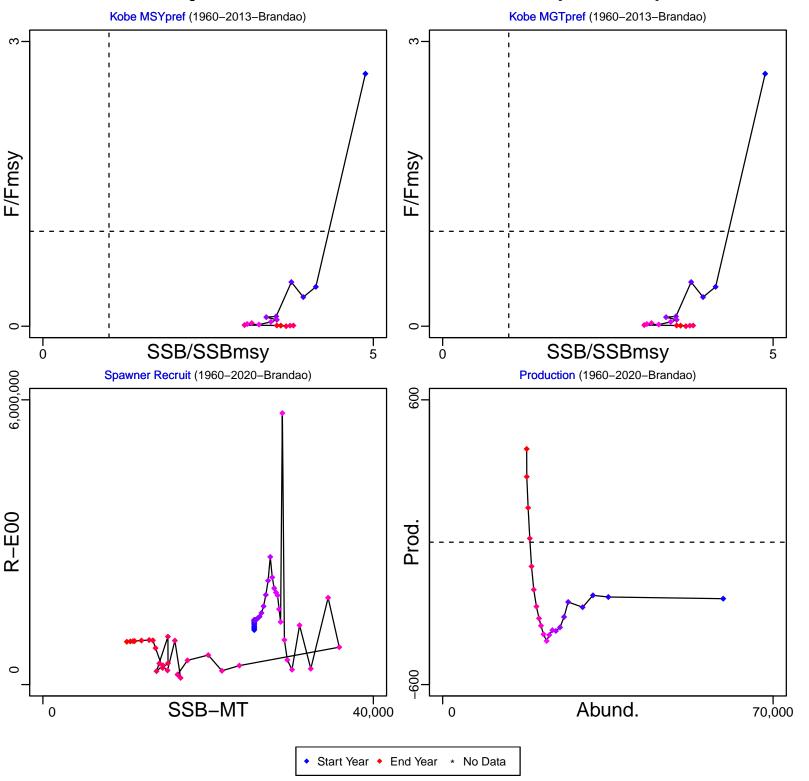
Kingklip South Africa West coast [KINGKLIPSAWC]

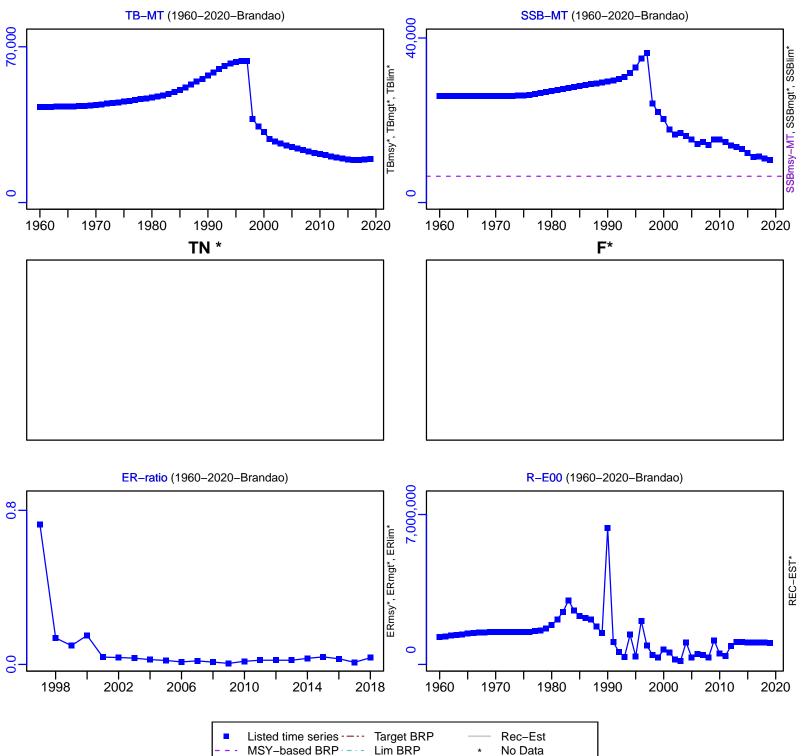


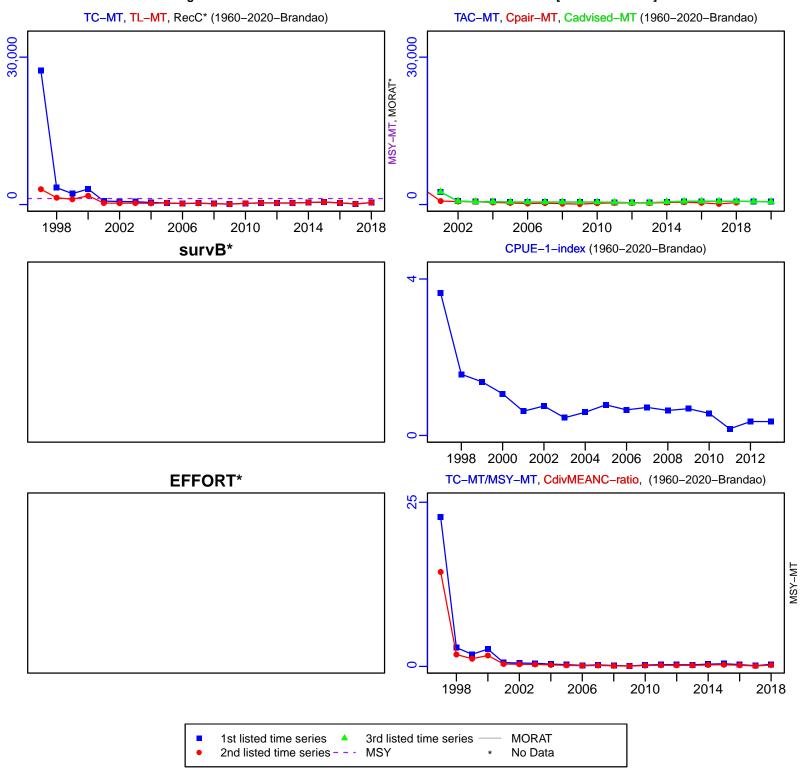
Metadata						
Scientific Name	Dissostichus eleginoides					
Current Assess ID MARAM-PTOOTHFISHPEI-1960-2020-Brandao						
Area South Africa Subantarctic Prince Edward Islands						
Management Authority South African national management, Fisheries Branch of						
	Department of Agriculture, Forestry 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, 2020					

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2020	6302	
Fmsy	Fmsy-1/yr	2015	0.12	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2020	40,188	
SSB0	SSB0-MT	2020	25,582	
MSY	MSY-MT	2020	1077	
M	M-1/yr	2020	0.13	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2020	18,219	-	0+	
SSB	SSB-MT	2020	10,158	Both	13+	
TN	-	-	-	-	-	
R	R-E00	2020	902,273	-	6	
F	-	-	-	-	-	
ER	ER-ratio	2020	0.032	-	-	
TC	TC-MT	2020	343			
TL	TL-MT	2020	343			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	1.61			
F/Fmsy	FdivFmsy-dimensionless	2013	0.006			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			





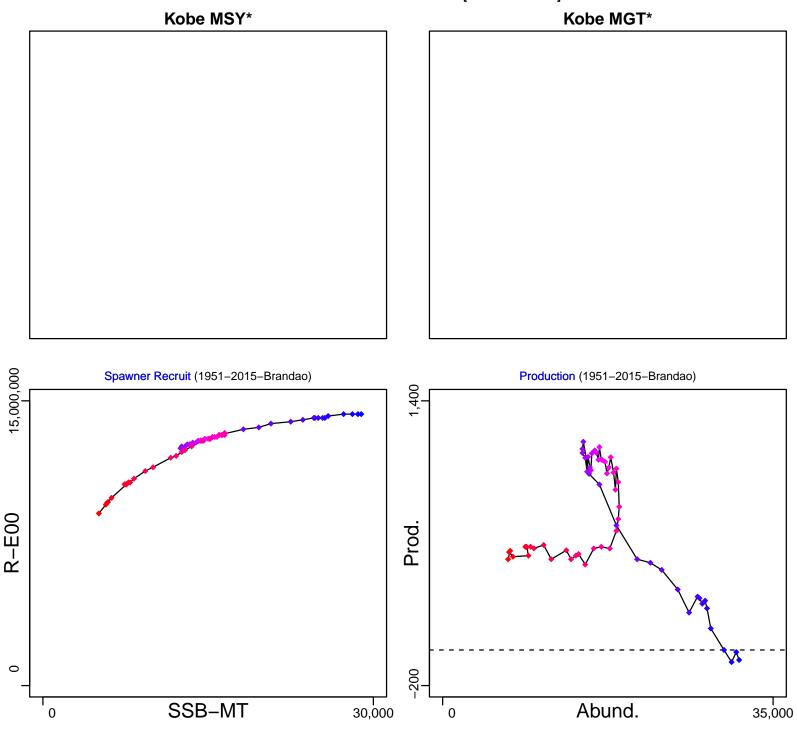


South African abalone South Africa [SAABALONESA]

Metadata					
Scientific Name	Haliotis midae				
Current Assess ID	MARAM-SAABALONESA-1951-2015-Brandao				
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	2013, 2015				

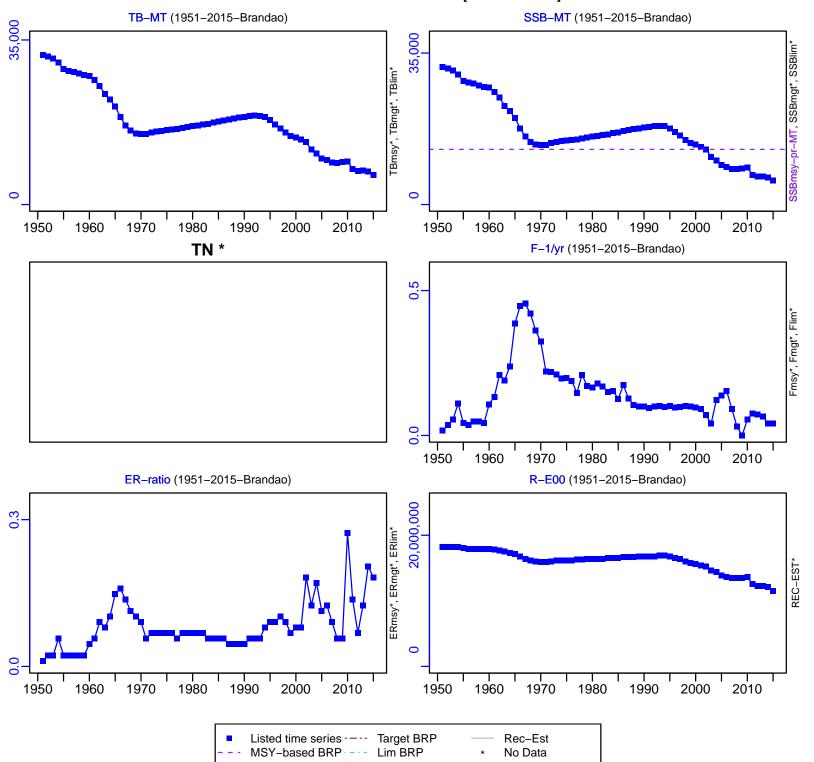
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	SSBmsy-pr-MT	2015	11,575			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	TB0-MT	2015	31,391			
SSB0	SSB0-MT	2015	28,937			
MSY	-	-	-			
М	M-1/yr	2015	0.15			
TBlim	-	-	-			
SSBlim	-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

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2015	6210	-	1+		
SSB	SSB-MT	2015	5080	Both	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	1	-	-				
ER/ERmsy	-	-	-				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

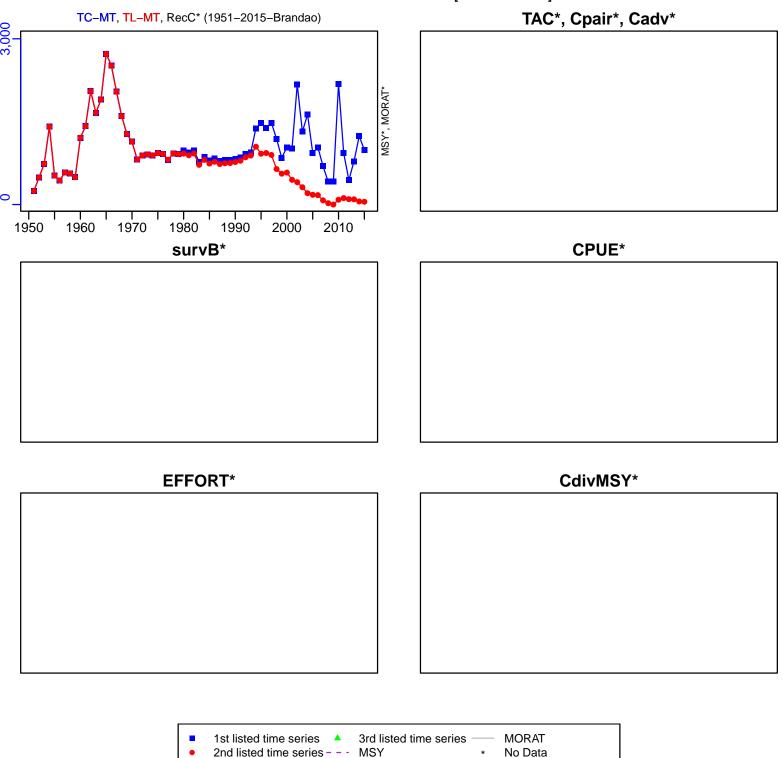


Start Year • End Year * No Data

South African abalone South Africa [SAABALONESA]



South African abalone South Africa [SAABALONESA]

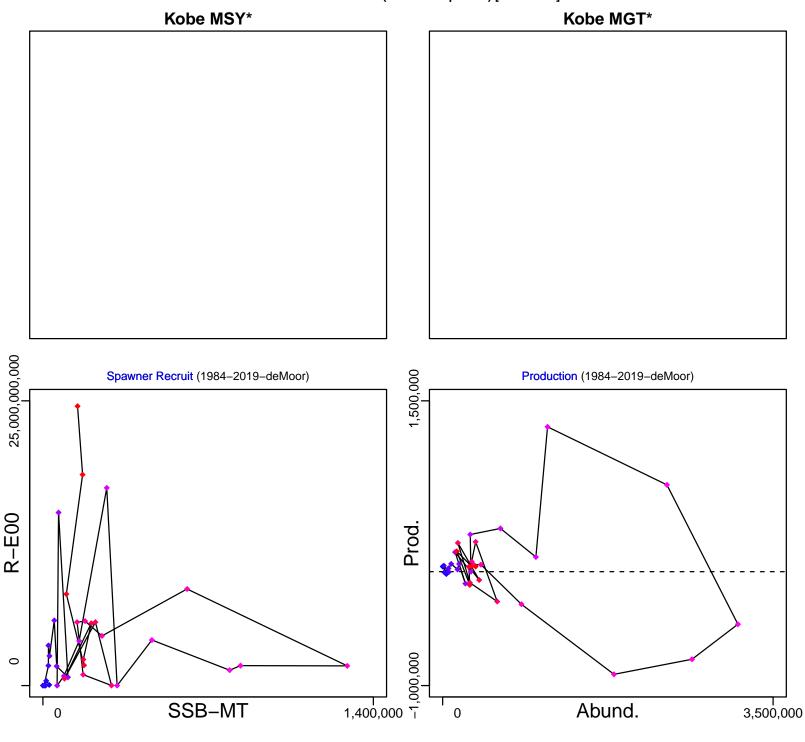


Sardine South Africa (South Component) [SARDSAS]

Metadata				
Scientific Name	Sardinops sagax			
Current Assess ID	MARAM-SARDSAS-1984-2019-deMoor			
Area	a South Africa (South Component)			
Management Authority	ity 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	2019			

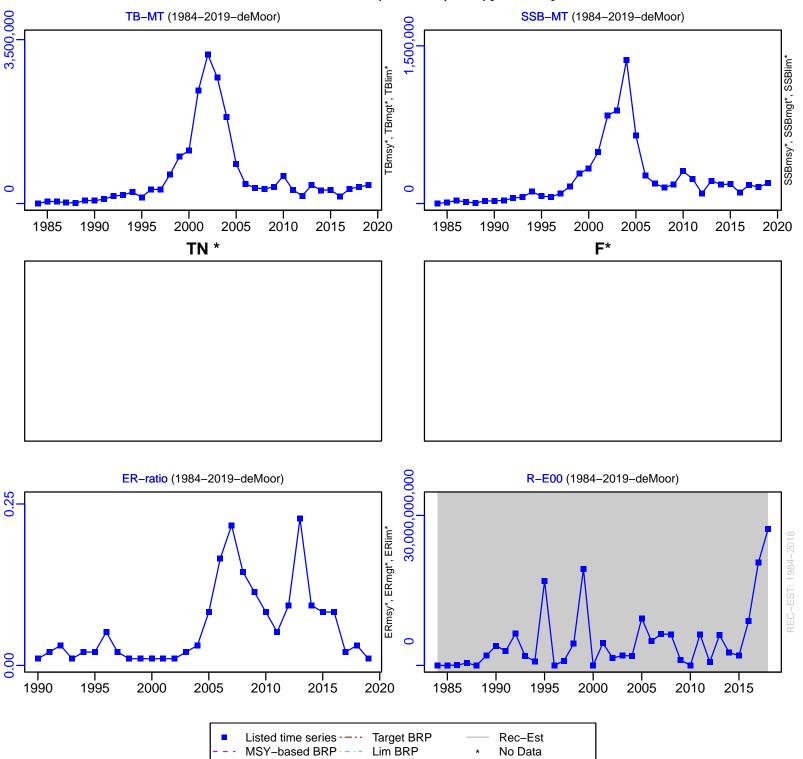
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2019	1		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2019	385,000	Both	0+	
SSB	SSB-MT	2019	184,300	Both	mature	
TN	-	-	-	-	-	
R	R-E00	2019	2.453×10^{10}	Both	0	
F	-	-	-	-	-	
ER	ER-ratio	2019	0.01	Both	0+	
TC	TC-MT	2019	3500			
TL	TL-MT	2019	3500			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

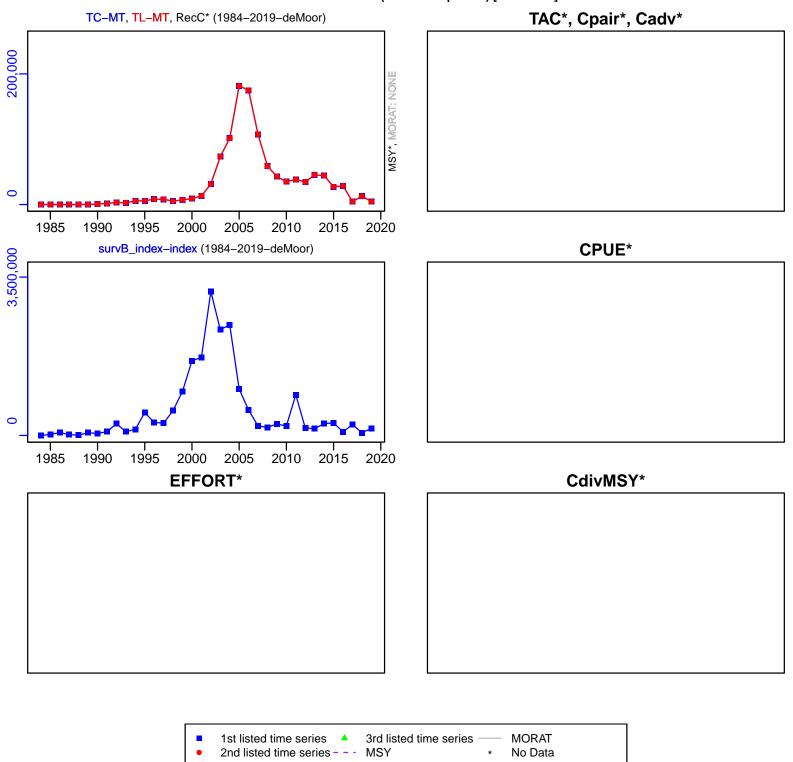


Start Year • End Year • No Data

Sardine South Africa (South Component) [SARDSAS]



Sardine South Africa (South Component) [SARDSAS]

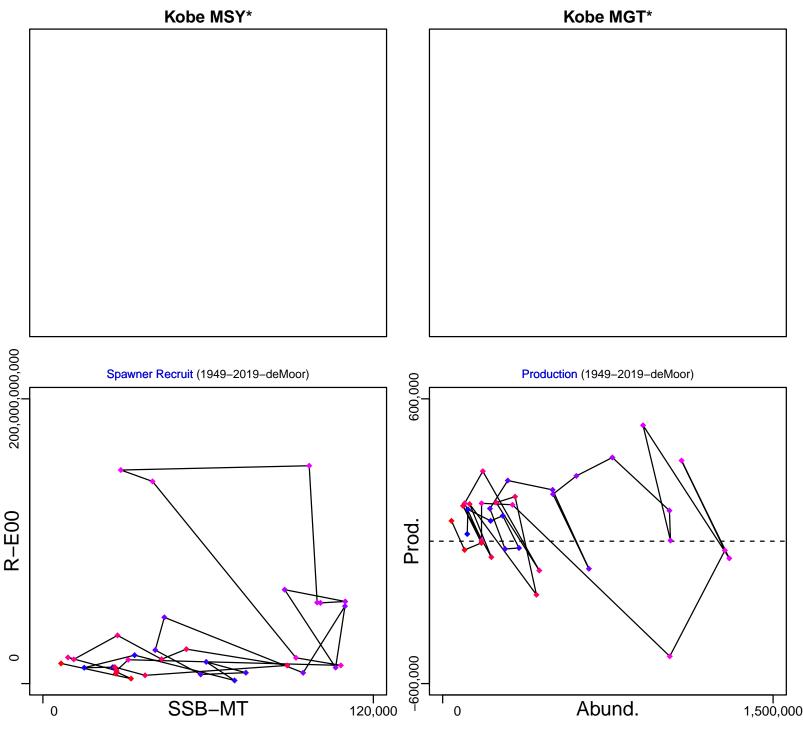


Sardine South Africa (West Component) [SARDSAW]

Metadata			
Scientific Name	Sardinops sagax		
Current Assess ID	MARAM-SARDSAW-1949-2019-deMoor		
Area	South Africa (West Component)		
Management Authority	South African national management, Fisheries Branch of		
	Department of Agriculture, Forestry and Fisheries		
Assessor Marine Resource Assessment and Management Group, De			
	Mathematics and Applied Mathematics, University of Cape Town,		
	Rondebosch, 7701, South Africa		
Asmts in RAM	2019		

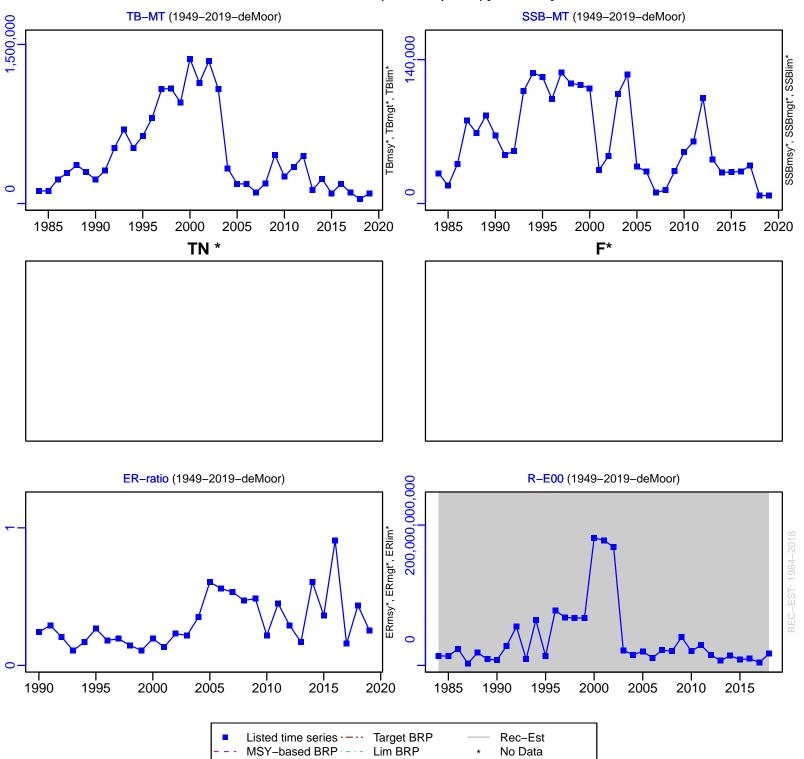
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2019	1		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2019	89,700	Both	0+	
SSB	SSB-MT	2019	6800	Both	mature	
TN	-	-	-	-	-	
R	R-E00	2019	1.414×10^{10}	Both	0	
F	-	-	-	-	-	
ER	ER-ratio	2019	0.21	Both	0+	
TC	TC-MT	2019	8500			
TL	TL-MT	2019	8500			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

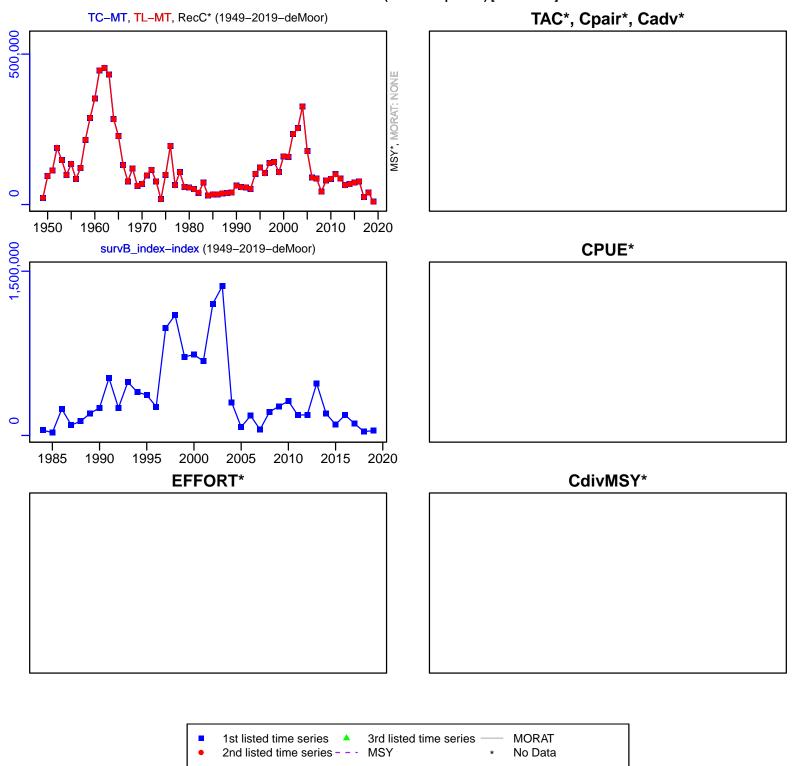


Start Year • End Year • No Data

Sardine South Africa (West Component) [SARDSAW]



Sardine South Africa (West Component) [SARDSAW]

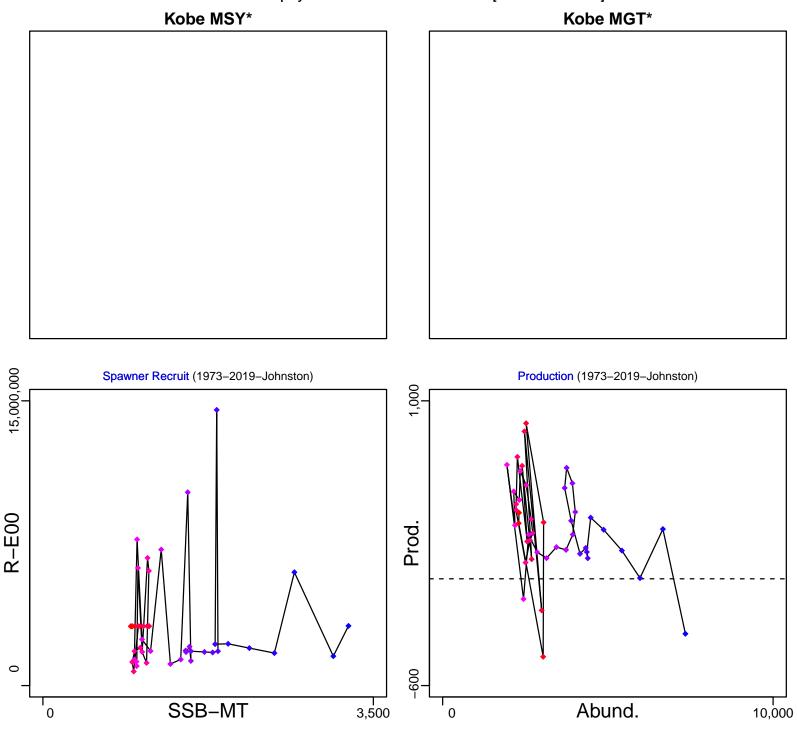


Southern spiny lobster South Africa South coast [SSLOBSTERSASC]

Metadata			
Scientific Name	Palinurus gilchristi		
Current Assess ID	MARAM-SSLOBSTERSASC-1973-2019-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, 2019		

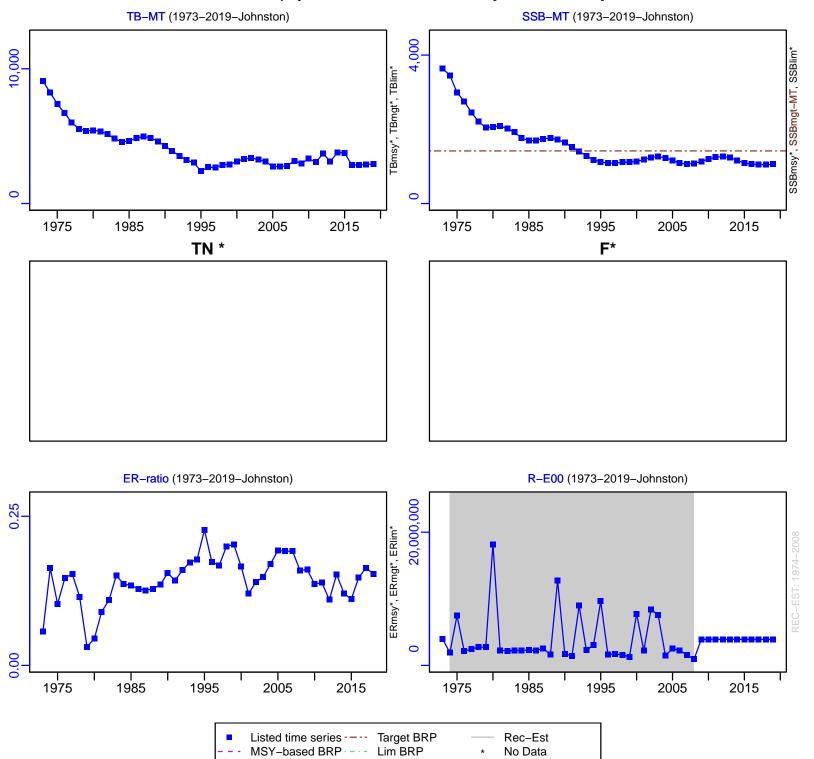
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-		-		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2019	1262		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2019	3237		
MSY	-	-	-		
M	M-1/yr	2019	0.1		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-		-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	2377	Both	-
SSB	SSB-MT	2019	945	Females	-
TN	-	-	-	-	-
R	R-E00	2019	3,124,580	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.137	-	-
TC	TC-MT	2019	321		
TL	TL-MT	2019	321		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.749		
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]

