carangids-mackerels Stocks v4.66 (Nov-03-2024)

Not present Present Preferred

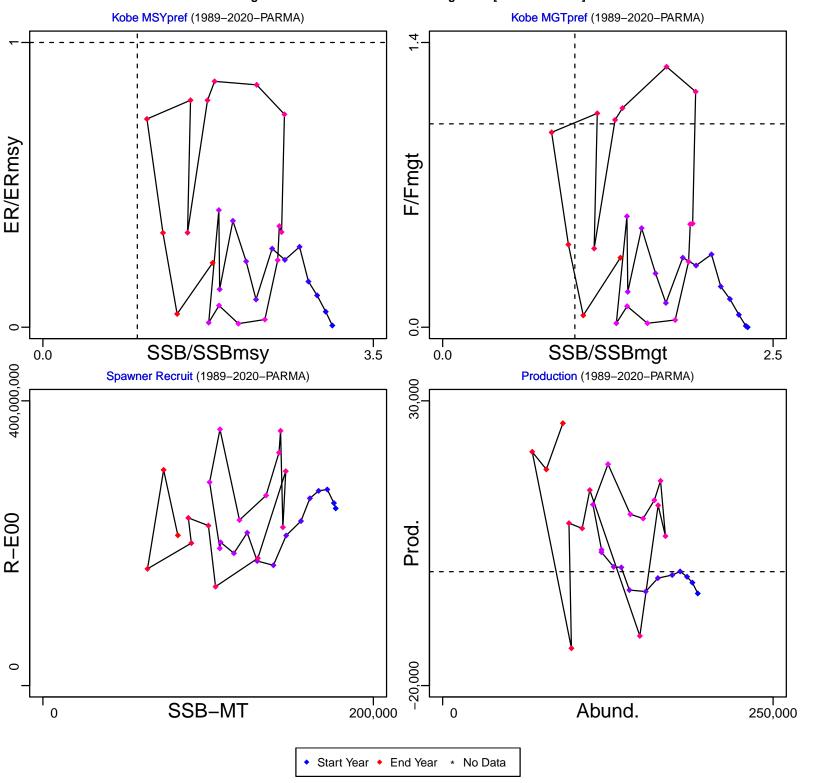
	Time Series Types			
Stock	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
ACMACKSARG [Argentine chub mackerel Southern Argentina]	TB SSB	ER F	TB SSB	ER F
ASCADECS [Amberstripe scad East China Sea]	TB SSB	ER F	TB SSB	ER F
3. BJMACKXa2 [Blue jack mackerel Azores]	TB SSB	ER F	TB SSB	ER F
4. BMACKECS [Spotted mackerel East China Sea]	TB SSB	ER F	TB SSB	ER F
5. BMACKPJPN [Spotted mackerel Pacific Coast of Japan]	TB SSB	ER F	TB SSB	ER F
6. CHMACKCWAGAB-AGO [Cunene horse mackerel Central West	TB SSB	ER F	TB SSB	ER F
Africa Gabon-Angola]				
7. CHMACKCWAGNB-LBR [Cunene horse mackerel Central West Africa	TB SSB	ER F	TB SSB	ER F
Guinea Bissau-Liberia]				
8. CHMACKNWA [Cunene horse mackerel North West Africa]	TB SSB	ER F	TB SSB	ER F
CHTRACCH [Chilean jack mackerel Chilean EEZ and offshore]	TB SSB	ER F	TB SSB	ER F
10. CMACKNWA [Atlantic chub mackerel North West Africa]	TB SSB	ER F	TB SSB	ER F
11. CMACKPCOAST [Pacific chub mackerel Pacific Coast]	TB SSB	ER F	TB SSB	ER F
12. CMACKPJPN [Chub mackerel Pacific Coast of Japan]	TB SSB	ER F	TB SSB	ER F
13. CMACKTSST [Chub mackerel Tsushima Strait]	TB SSB	ER F	TB SSB	ER F
14. CTRACSA [Cape horse mackerel South Africa South coast]	TB SSB	ER F	TB SSB	ER F
15. FSCADNWA [False scad North West Africa]	TB SSB	ER F	TB SSB	ER F
16. GRAMBERGM [Greater amberjack Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
17. GRAMBERSATLC [Greater amberjack Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
18. GTREVMHI [Giant trevally Main Hawaiian Islands]	TB SSB	ER F	TB SSB	ER F
19. HMACKIIa-IVa-Vb-VIa-VII-VIII [Horse mackerel ICES 2a-4a-5b-6a-	TB SSB	ER F	TB SSB	ER F
7-8]				
20. HMACKIIIa-IVbc-VIId [Horse mackerel ICES 3a-4bc-7d]	TB SSB	ER F	TB SSB	ER F
21. HMACKIXa [Horse mackerel Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F
22. HMACKMEDGSA9-11 [Horse mackerel Geographical Sub-Areas 9-	TB SSB	ER F	TB SSB	ER F
11]				
23. HMACKNWA [Horse mackerel North West Africa]	TB SSB	ER F	TB SSB	ER F
24. JAMBERJPN [Japanese amberjack Japan]	TB SSB	ER F	TB SSB	ER F
25. JMACKPJPN [Japanese jack mackerel Pacific Coast of Japan]	TB SSB	ER F	TB SSB	ER F
26. JMACKTSST [Japanese jack mackerel Tsushima Strait]	TB SSB	ER F	TB SSB	ER F
27. KMACKGM [King mackerel Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
28. KMACKSATLC [King mackerel Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
29. MACK5YCHATT [Atlantic mackerel Gulf of Maine / Cape Hatteras]	TB SSB	ER F	TB SSB	ER F
30. MACKNEICES [Mackerel ICES Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
31. MACKNWATLSA3-4 [Mackerel Northwest Atlantic (NAFO Subareas	TB SSB	ER F	TB SSB	ER F
3 and 4)]				
32. MHMACKMEDGSA29 [Mediterranean horse mackerel Black Sea]	TB SSB	ER F	TB SSB	ER F
33. SCADSPPCWAGNB-LBR [Scad spp Central West Africa Guinea	TB SSB	ER F	TB SSB	ER F
Bissau-Liberia]				

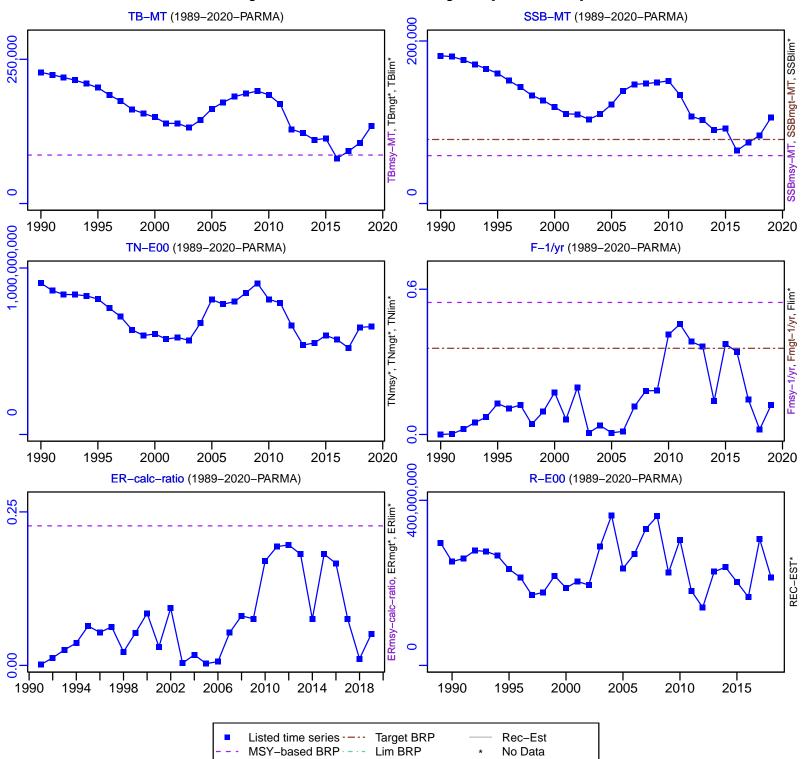
34. SPANMACKECS [Japanese Spanish mackerel East China Sea]	TB SSB	ER F	TB SSB	ER F
35. SPANMACKGM [Spanish mackerel Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
36. SPANMACKSATLC [Spanish mackerel Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
37. SPANMACKSETO [Japanese Spanish mackerel Inland Sea of	TB SSB	ER F	TB SSB	ER F
Japan]				
38. TREVALLYTRE7 [Trevally New Zealand Areas TRE 7]	TB SSB	ER F	TB SSB	ER F

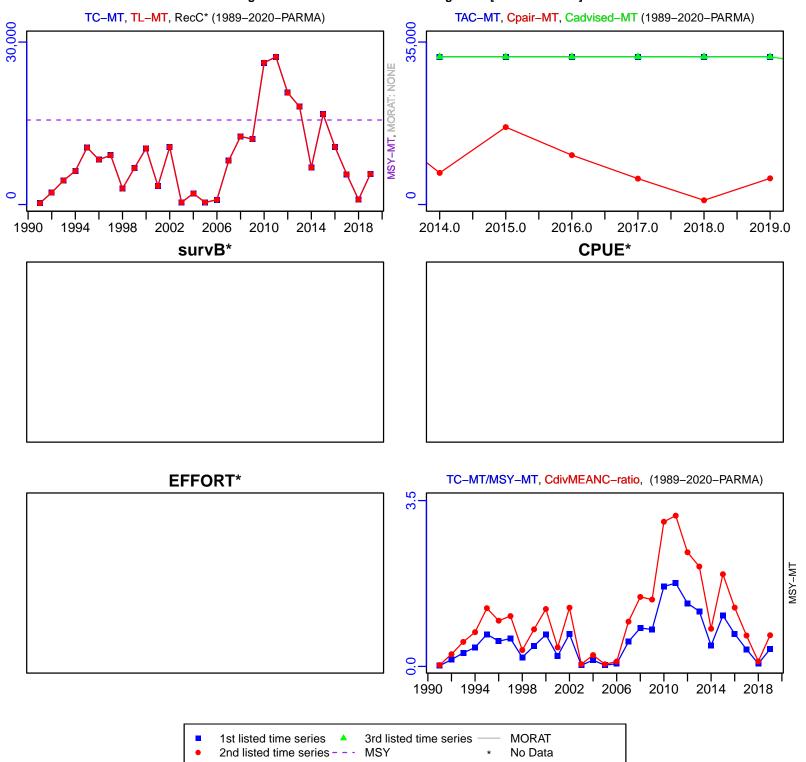
Metadata			
Scientific Name	Scomber colias		
Current Assess ID	INIDEP-ACMACKSARG-1989-2020-PARMA		
Area	Southern Argentina		
Management Authority	Consejo Federal Pesquero, Argentina national management		
Assessor	Instituto Nacional de Investigacion y Desarrollo Pesquero		
Asmts in RAM	2016, 2020		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2020	72,658	
SSBmsy	SSBmsy-MT	2020	57,455	
Fmsy	Fmsy-1/yr	2020	0.475	
ERmsy	ERmsy-calc-ratio	2020	0.209	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2020	76,800	
Fmgt	Fmgt-1/yr	2020	0.31	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2020	15,200	
М	M-1/yr	2020	0.38	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2016	59,000	
Flim	Flim-1/yr	2016	0.81	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2020	116,131	Both	10-Jan	
SSB	SSB-MT	2020	103,295	Both	10-Jan	
TN	TN-E00	2020	646,680,519	Both	10-Jan	
R	R-E00	2020	211,084,354	Both	1	
F	F-1/yr	2020	0.106	Both	10-Jul	
ER	ER-calc-ratio	2020	0.047	-	-	
TC	TC-MT	2020	5494			
TL	TL-MT	2020	5494			
TB/TBmsy	TB-MT/TBmsy-MT	2020	1.598			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.798			
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.223			
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2020	0.226			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.345			
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	0.342			
ER/ERmgt	-	-	-			







Metadata			
Scientific Name	Decapterus muroadsi		
Current Assess ID	FAFRFJ-ASCADECS-1973-2018-KUROTA		
Area	East China Sea		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013, 2018		

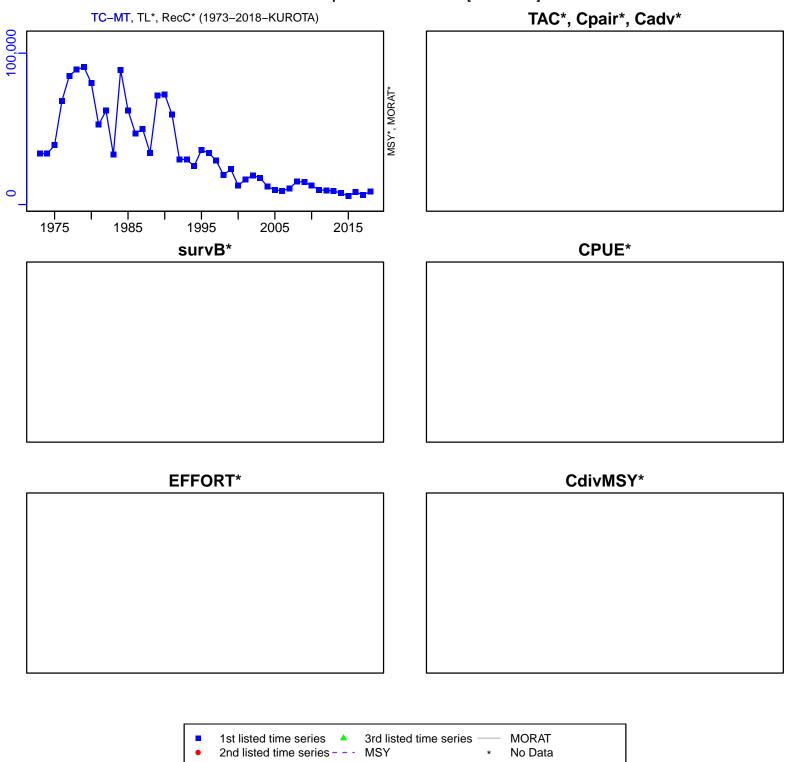
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	7727		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	m BRP * No Data



Metadata			
Scientific Name	Trachurus picturatus		
Current Assess ID	WGHANSA-BJMACKXa2-1978-2017-ICESIMP2018		
Area Azores			
Management Authority	International Council for the Exploration of the Sea		
Assessor Working Group on Southern Horse Mackerel, Anchovy and Sardine			
Asmts in RAM	2016, 2017		

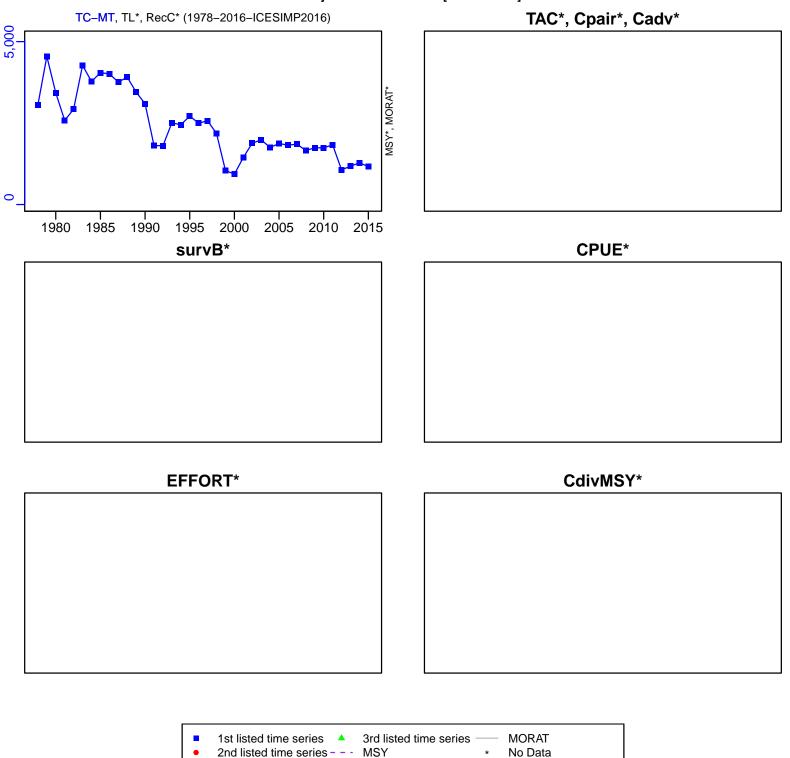
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2016	1140			
TL	TL-MT	2017	991			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

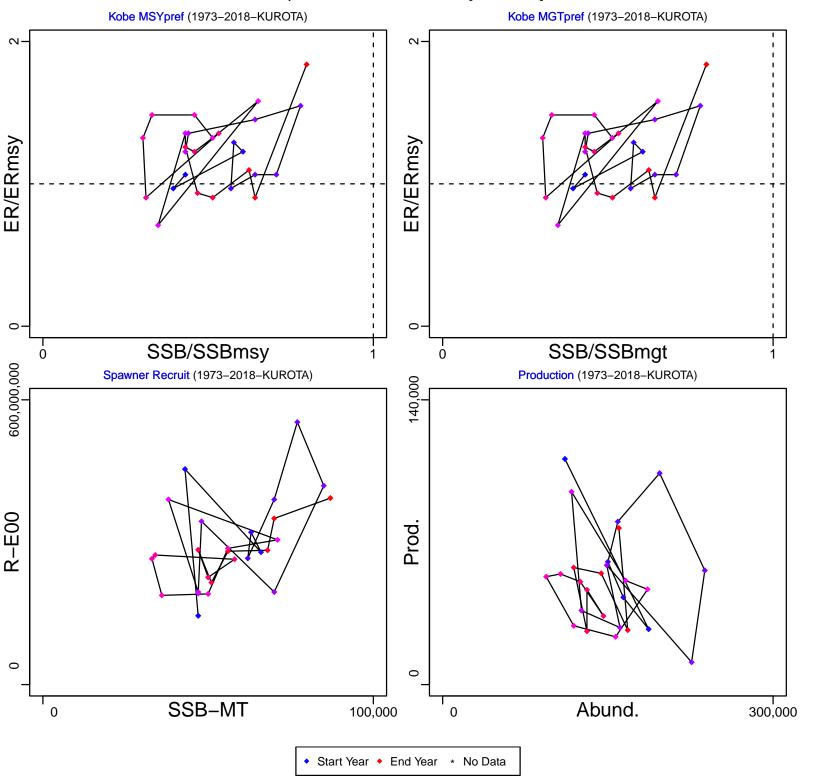
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

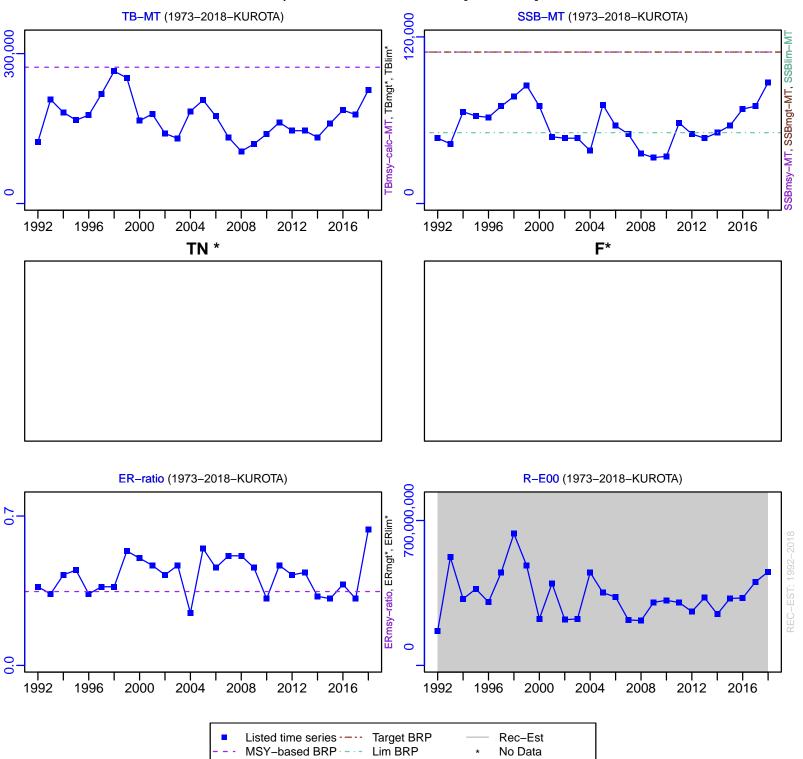


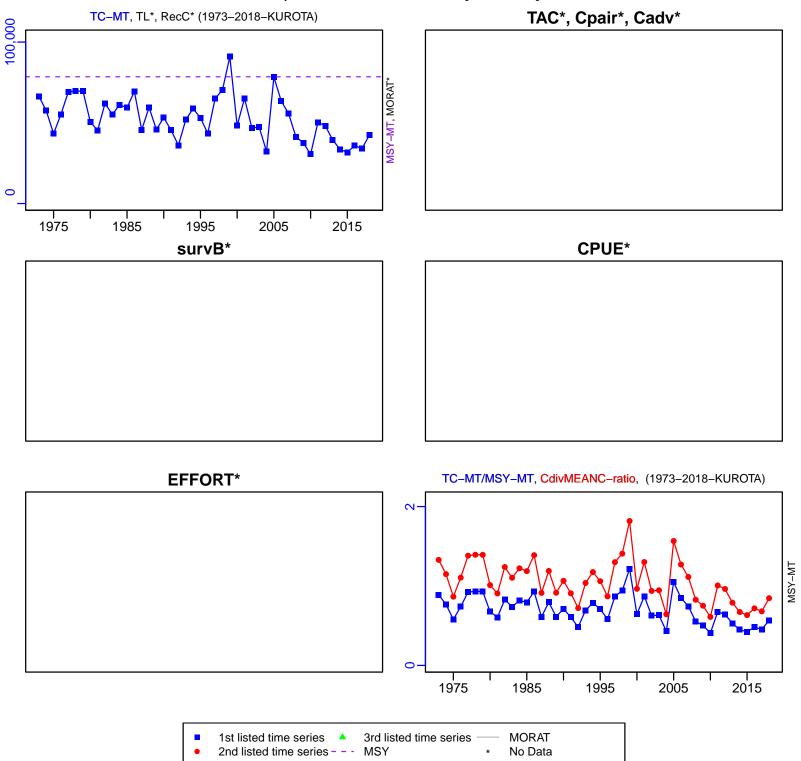
Metadata			
Scientific Name	Scomber australasicus		
Current Assess ID	FAFRFJ-BMACKECS-1973-2018-KUROTA		
Area	East China Sea		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2018, 2013		

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2018	245,161		
SSBmsy	SSBmsy-MT	2018	109,000		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2018	0.31		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2018	109,000		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2018	76,000		
М	M-1/yr	2018	0.4		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2018	51,000		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2018	204,000	Both	0	
SSB	SSB-MT	2018	87,000	Both	1	
TN	-	-	-	-	-	
R	R-E00	2018	3.93×10^{8}	Both	0	
F	-	-	-	-	-	
ER	ER-ratio	2018	0.57	Both	-	
TC	TC-MT	2018	40,966			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	0.832			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.798			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	1.839			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.798			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			



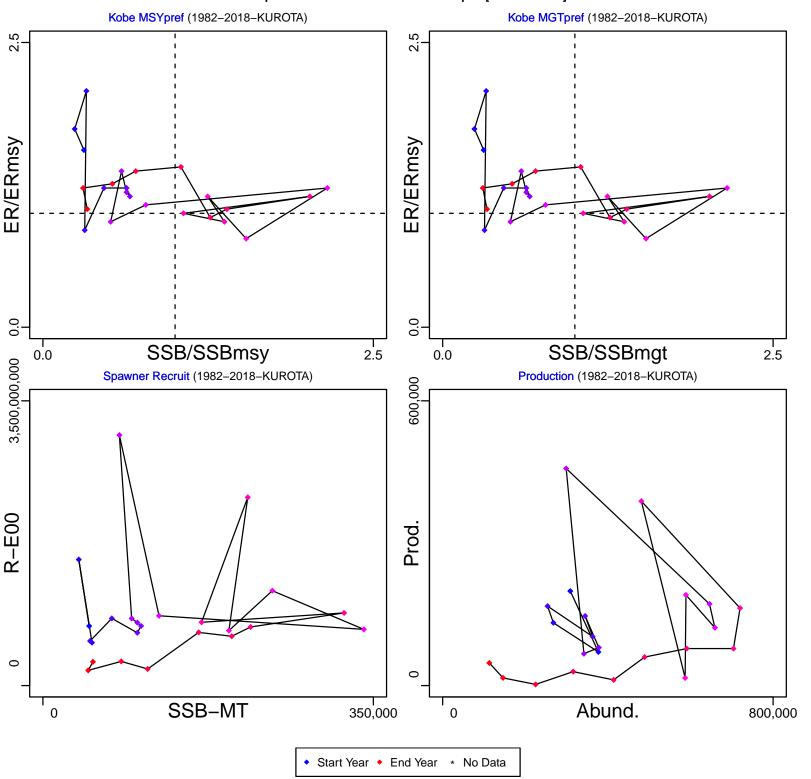


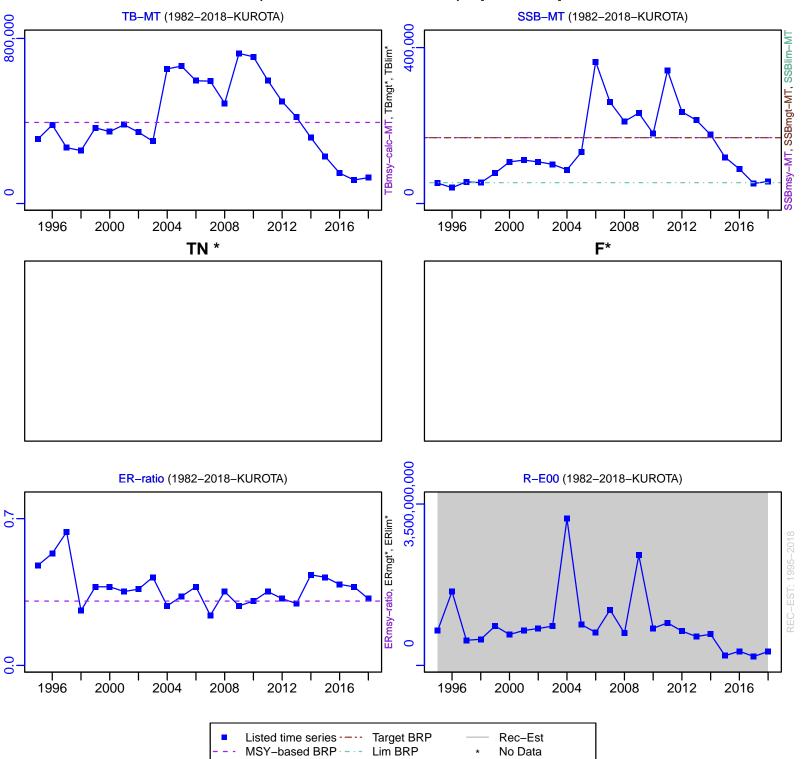


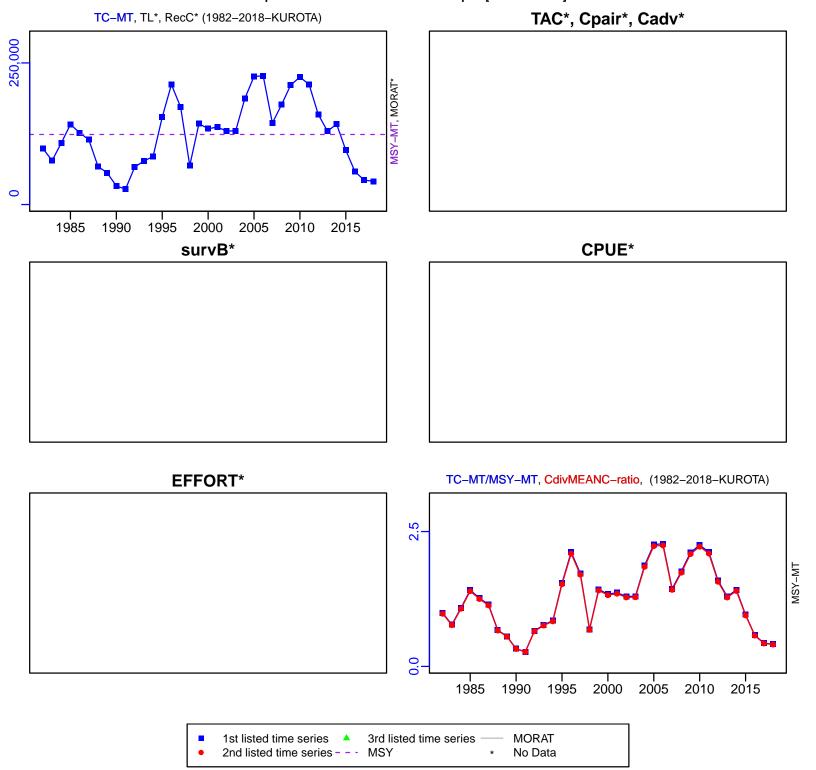
Metadata			
Scientific Name	Scomber australasicus		
Current Assess ID	FAFRFJ-BMACKPJPN-1982-2018-KUROTA		
Area Pacific Coast of Japan			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013, 2018		

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2018	388,889		
SSBmsy	SSBmsy-MT	2018	158,000		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2018	0.27		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2018	158,000		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2018	105,000		
М	M-1/yr	2018	0.4		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2018	50,000		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2018	124,000	Both	0	
SSB	SSB-MT	2018	53,000	Both	2	
TN	-	-	-	-	-	
R	R-E00	2018	2.92×10^{8}	Both	0	
F	-	-	-	-	-	
ER	ER-ratio	2018	0.28	Both	-	
TC	TC-MT	2018	34,879			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	0.319			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.335			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	1.037			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.335			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			







Cunene horse mackerel Central West Africa Gabon-Angola [CHMACKCWAGAB-AGO]

Metadata			
Scientific Name	Trachurus trecae		
Current Assess ID	FAO-SPNWA-CHMACKCWAGAB-AGO-1990-2017-ASHBROOK		
Area	Central West Africa Gabon-Angola		
Management Authority	Food and Agriculture Organization of the United Nations		
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa		
Asmts in RAM	2017		

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

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	•	
F	-	-	-	-		
ER	-	-	-	-	-	
TC	TC-MT	2017	48,000			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

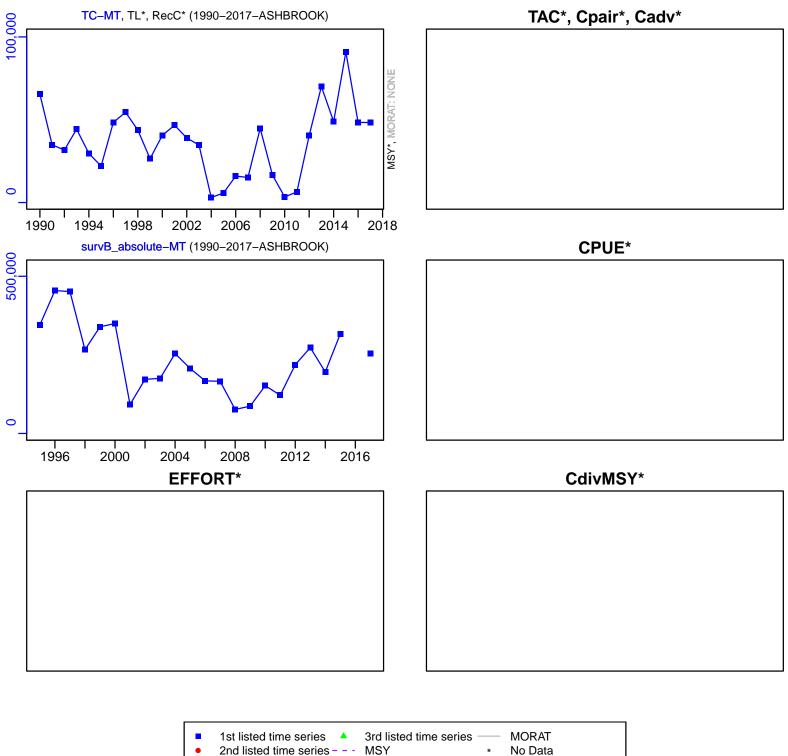
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

Cunene horse mackerel Central West Africa Gabon-Angola [CHMACKCWAGAB-AGO]

TB*	SSB*
TN *	F*
ED*	Dooruito*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data

Cunene horse mackerel Central West Africa Gabon-Angola [CHMACKCWAGAB-AGO]



Cunene horse mackerel Central West Africa Guinea Bissau-Liberia [CHMACKCWAGNB-LBR]

Metadata		
Scientific Name	Trachurus trecae	
Current Assess ID	FAO-SPNWA-CHMACKCWAGNB-LBR-1990-2017-ASHBROOK	
Area	Central West Africa Guinea Bissau-Liberia	
Management Authority	Food and Agriculture Organization of the United Nations	
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa	
Asmts in RAM	2017	

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	31,487		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

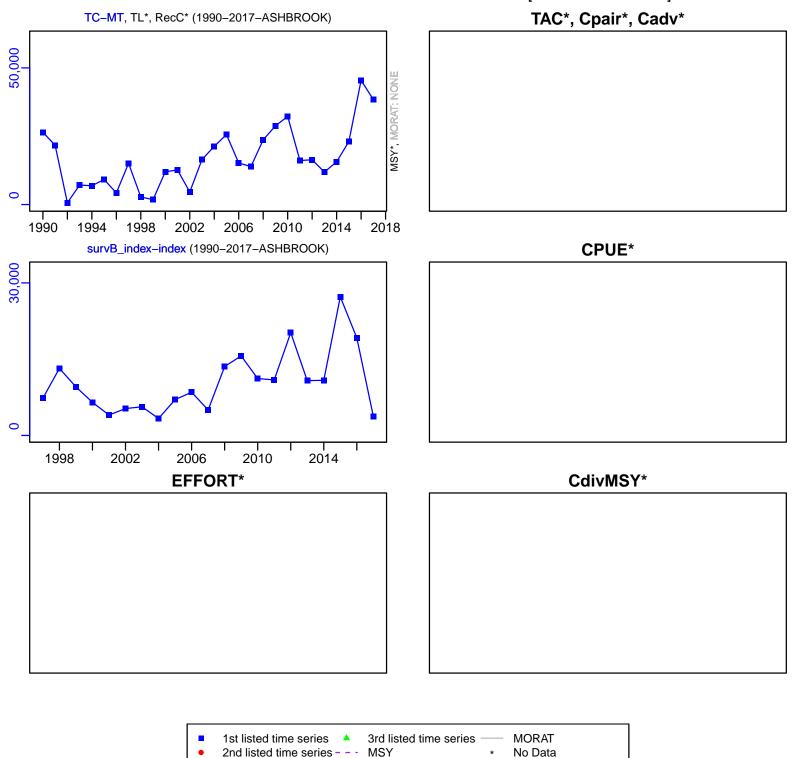
Cunene horse mackerel Central West Africa Guinea Bissau-Liberia [CHMACKCWAGNB-LBR]

TB*	SSB*
TN *	F *
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est

Lim BRP

No Data

MSY-based BRP · - · -

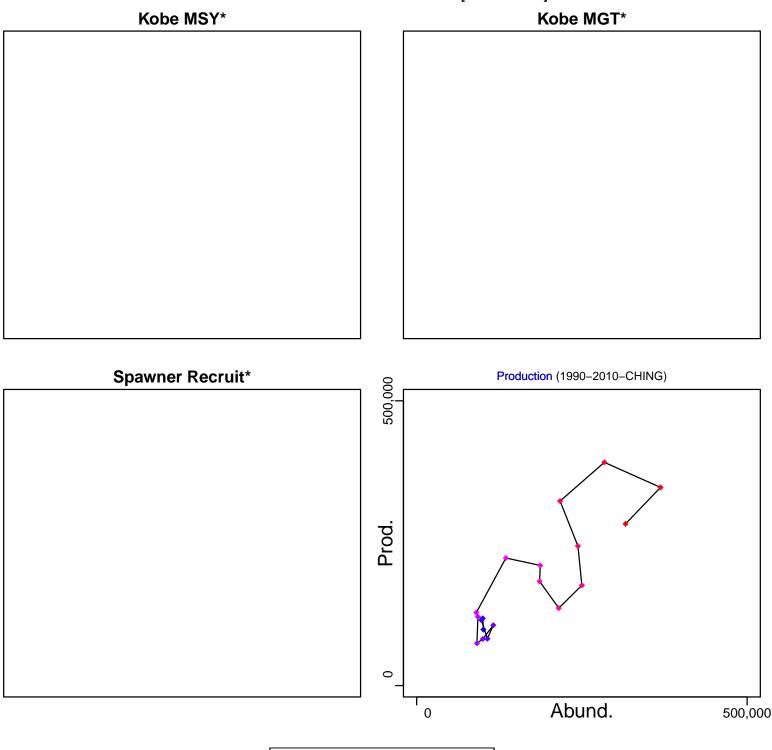


Cunene horse mackerel North West Africa [CHMACKNWA]

Metadata		
Scientific Name	Trachurus trecae	
Current Assess ID	FAO-SPNWA-CHMACKNWA-1990-2020-HIVELY	
Area	North West Africa	
Management Authority	Food and Agriculture Organization of the United Nations	
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa	
Asmts in RAM	2010, 2016, 2018, 2020	

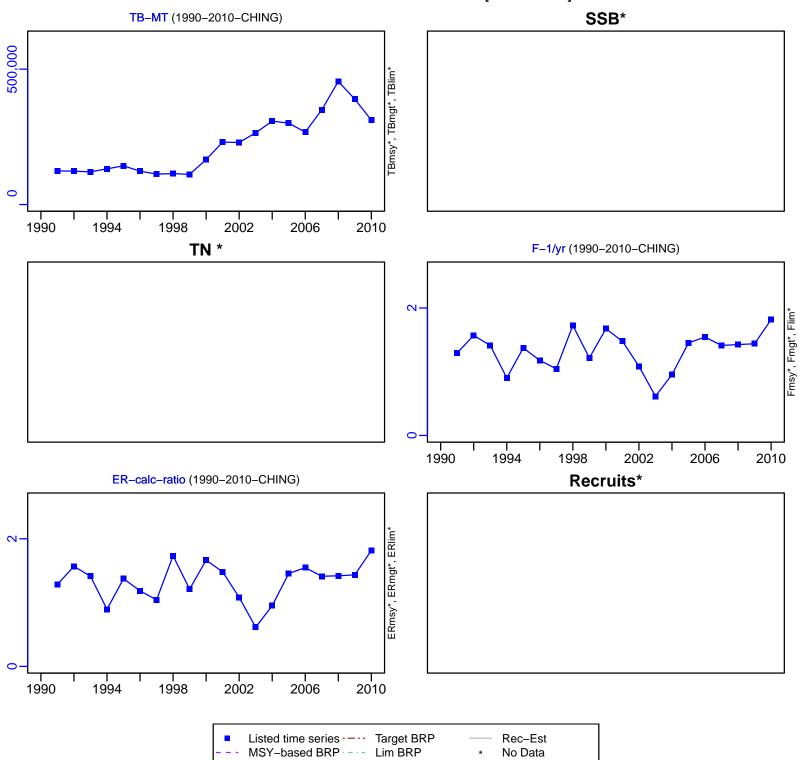
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Туре	ID Asmt Year Curr Value					
ТВ	TB-MT	2010	253,000	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2010	1.39	-	-	
ER	ER-calc-ratio	2010	1.391	-	-	
TC	TC-MT	2020	245,224			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	1	-	-			
SSB/SSBmgt	1	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

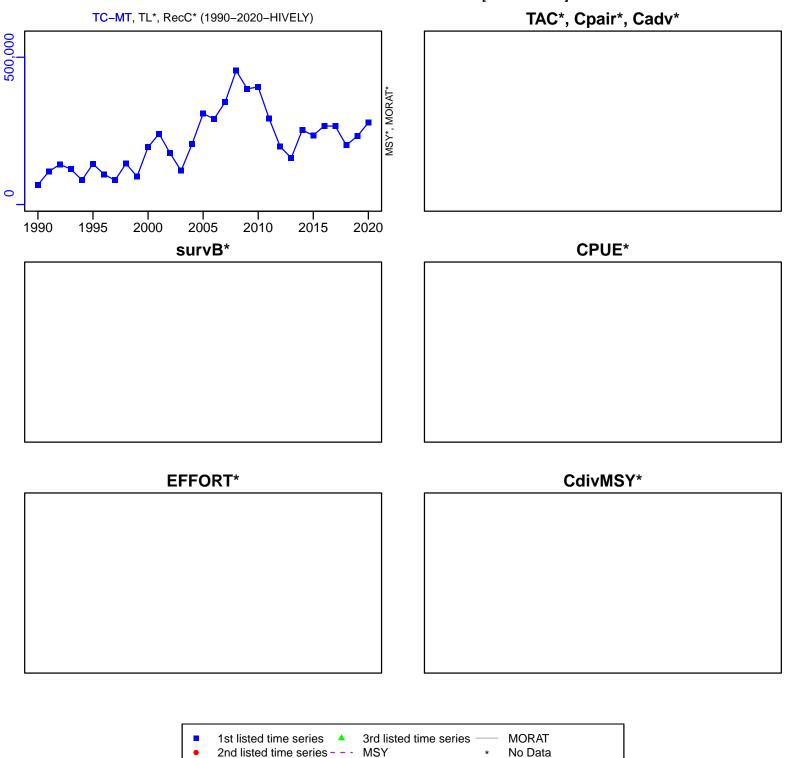


Start Year → End Year → No Data

Cunene horse mackerel North West Africa [CHMACKNWA]



Cunene horse mackerel North West Africa [CHMACKNWA]



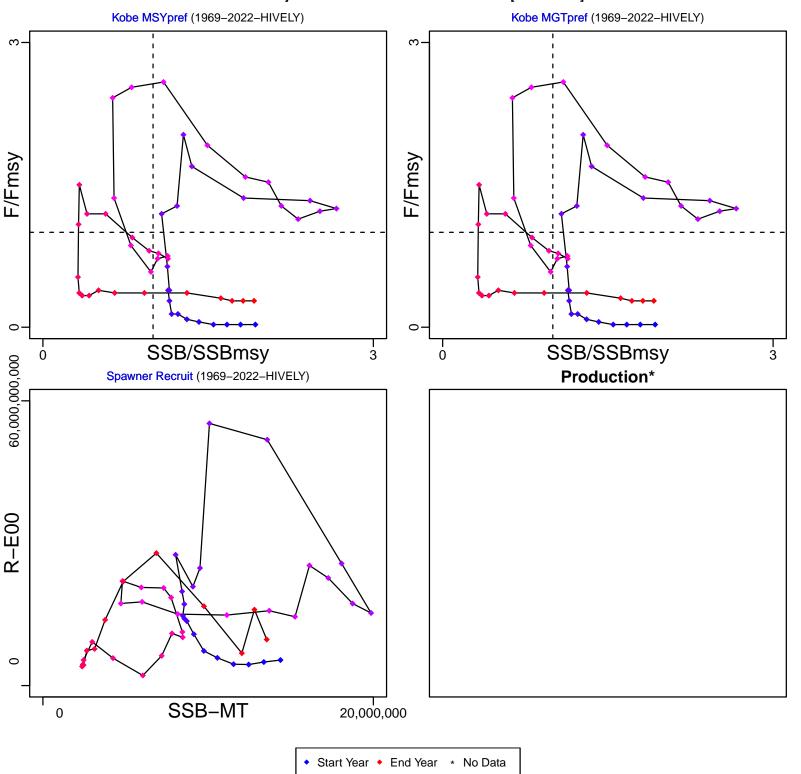
Chilean jack mackerel Chilean EEZ and offshore [CHTRACCH]

Metadata		
Scientific Name	Trachurus murphyi	
Current Assess ID	SPRFMO-CHTRACCH-1969-2022-HIVELY	
Area	Chilean EEZ and offshore	
Management Authority	South Pacific Regional Fisheries Management Organization	
Assessor	South Pacific Regional Fisheries Management Organization	
Asmts in RAM	2010, 2015, 2022	

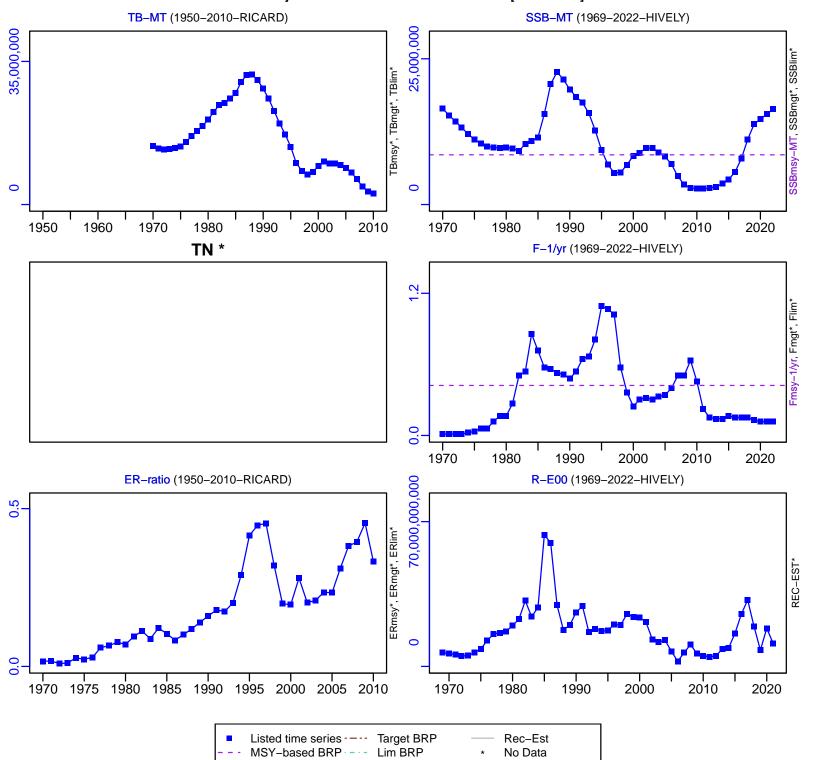
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2022	7,453,000	
Fmsy	Fmsy-1/yr	2022	0.36	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2022	0.28	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	2,360,000	-	-
SSB	SSB-MT	2022	14,289,000	-	-
TN	-	-	-	-	-
R	R-E00	2022	9.71×10^{9}	-	1
F	F-1/yr	2022	0.1	-	12-Jan
ER	ER-ratio	2010	0.315	-	-
TC	TC-MT	2015	434,000		
TL	TL-MT	2022	929,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2022	1.917		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	0.278		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

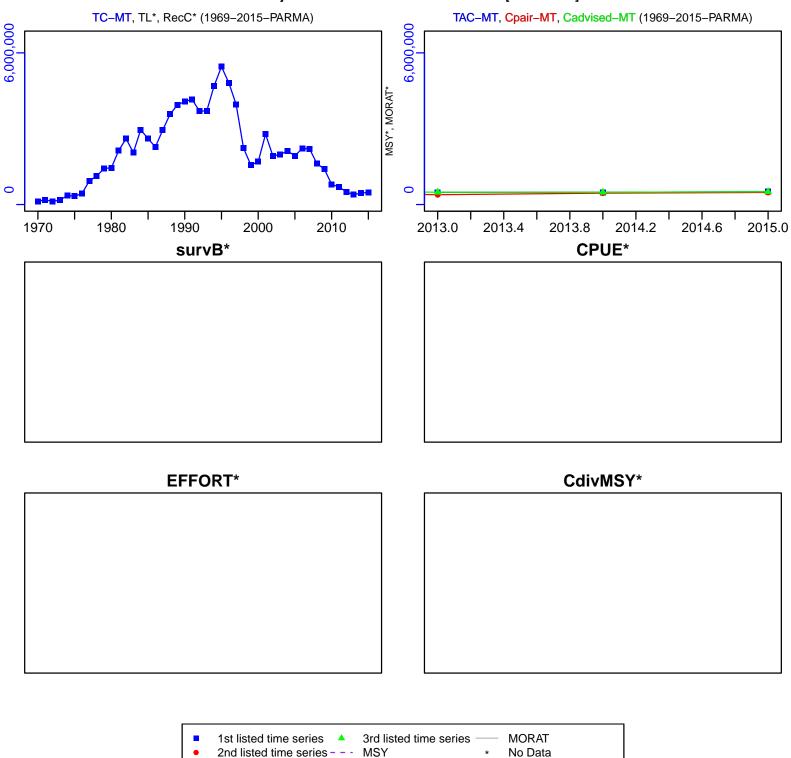
Chilean jack mackerel Chilean EEZ and offshore [CHTRACCH]



Chilean jack mackerel Chilean EEZ and offshore [CHTRACCH]



Chilean jack mackerel Chilean EEZ and offshore [CHTRACCH]



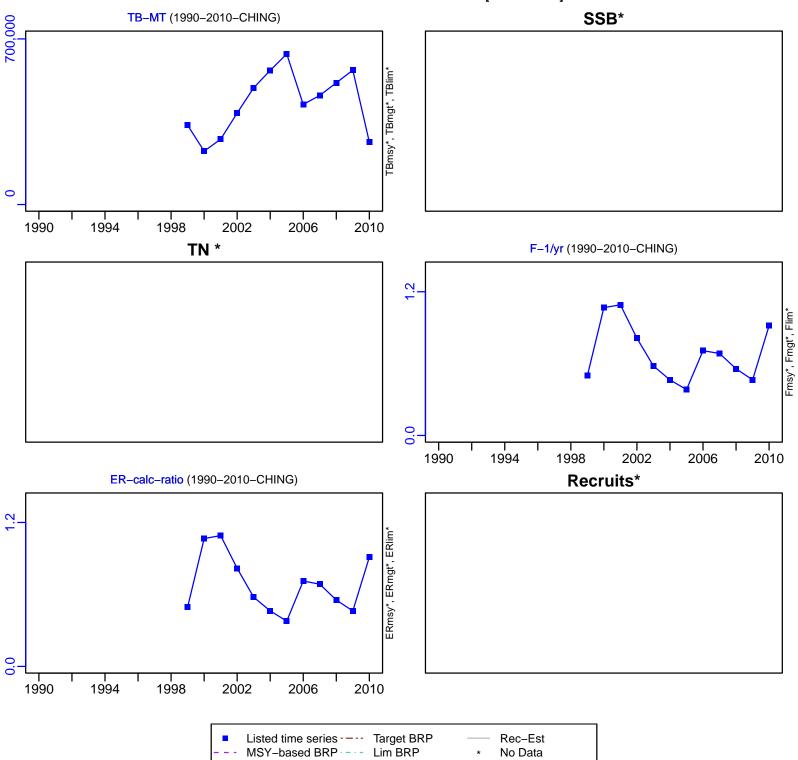
Metadata			
Scientific Name	Scomber colias		
Current Assess ID	FAO-SPNWA-CMACKNWA-1990-2020-HIVELY		
Area North West Africa			
Management Authority	Food and Agriculture Organization of the United Nations		
Assessor FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Afr			
Asmts in RAM	2010, 2016, 2018, 2020		

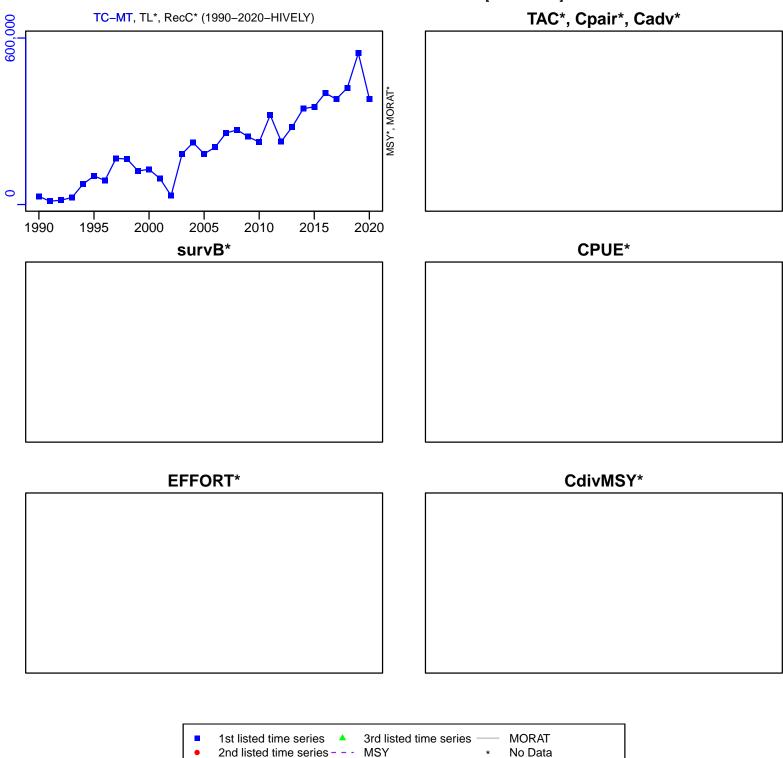
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2016	0.58	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	262,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.79	-	-
ER	ER-calc-ratio	2010	0.786	-	-
TC	TC-MT	2020	380,505		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Spannor Restain	1 1044511611
opannor reorait	
opannor recordic	
opannor nooran	
opannor nooran	
opannor nooran	

◆ Start Year ◆ End Year * No Data

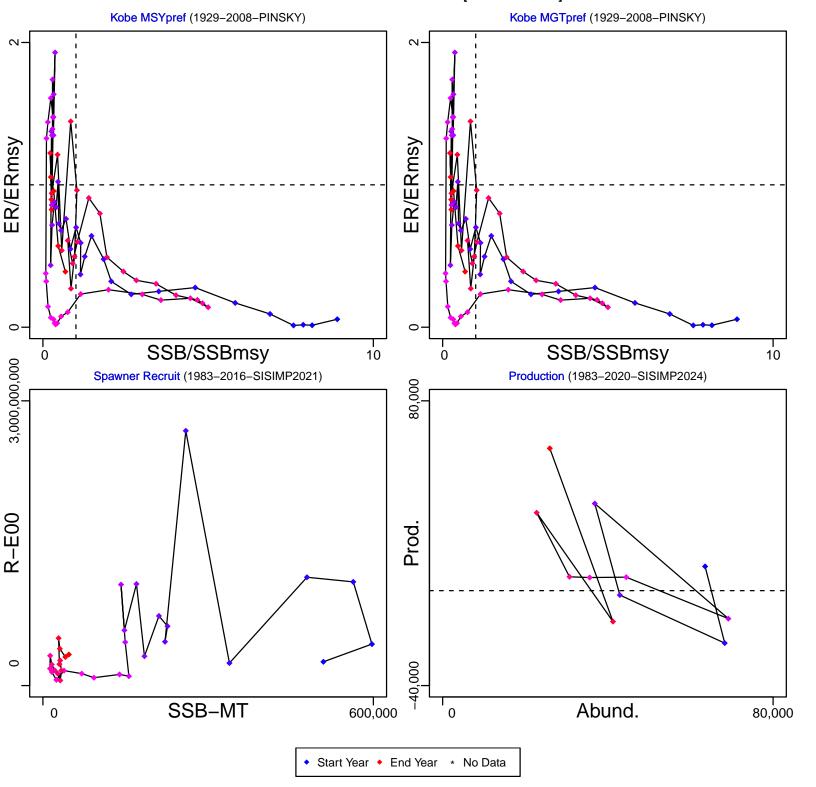


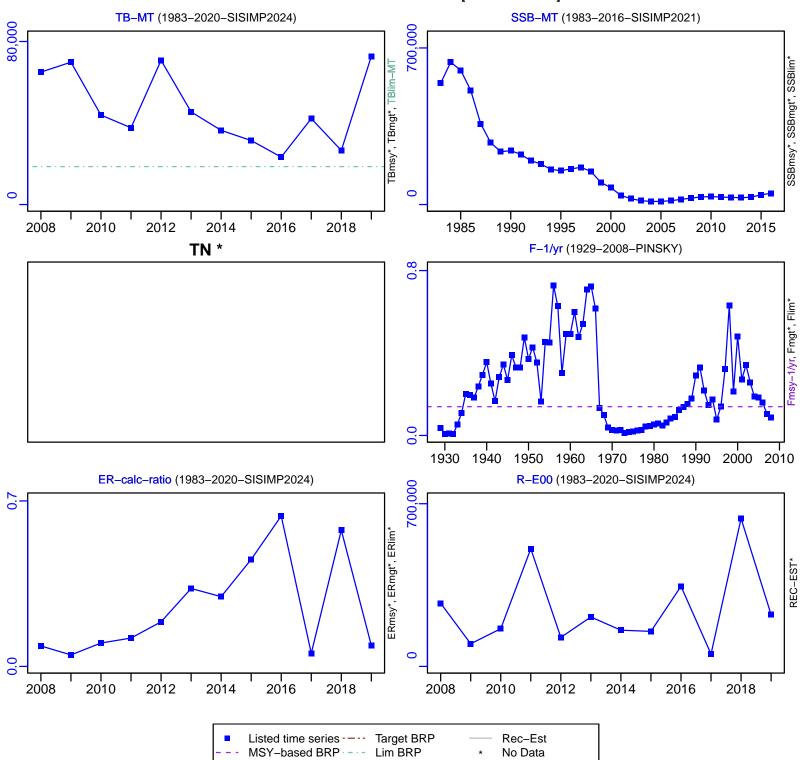


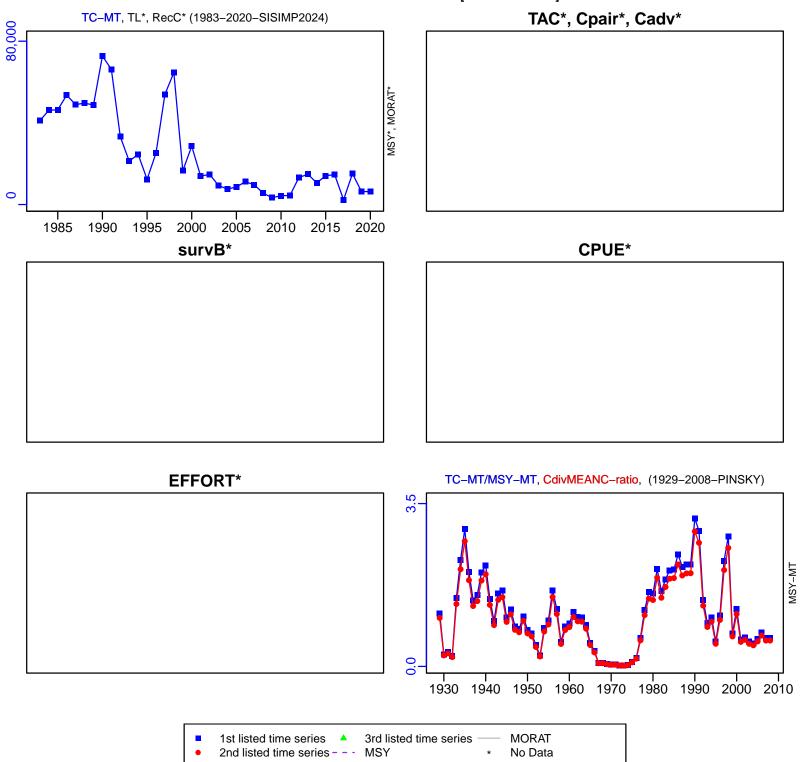
Metadata			
Scientific Name	Scomber japonicus		
Current Assess ID	SWFSC-CMACKPCOAST-1983-2020-SISIMP2024		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2008, 2015, 2016, 2019, 2020		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2008	125,285	
SSBmsy	SSBmsy-MT	2008	122,357	
Fmsy	Fmsy-1/yr	2008	0.138	
ERmsy	ERmsy-ratio	2008	0.184	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2008	182,791	
MSY	MSY-MT	2008	23,048	
M	M-1/yr	2008	0.5	
TBlim	TBlim-MT	2020	18,200	
SSBlim	SSBlim-MT	2008	29,420	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	71,099	-	-
SSB	SSB-MT	2016	47,178	-	-
TN	-	-	-	-	-
R	R-E00	2020	216,893	-	0
F	F-1/yr	2008	0.087	-	-
ER	ER-calc-ratio	2020	0.088	-	-
TC	TC-MT	2020	6190		
TL	TL-MT	2008	13,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.68		
F/Fmsy	F-1/yr/Fmsy-1/yr	2008	0.633		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.39		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



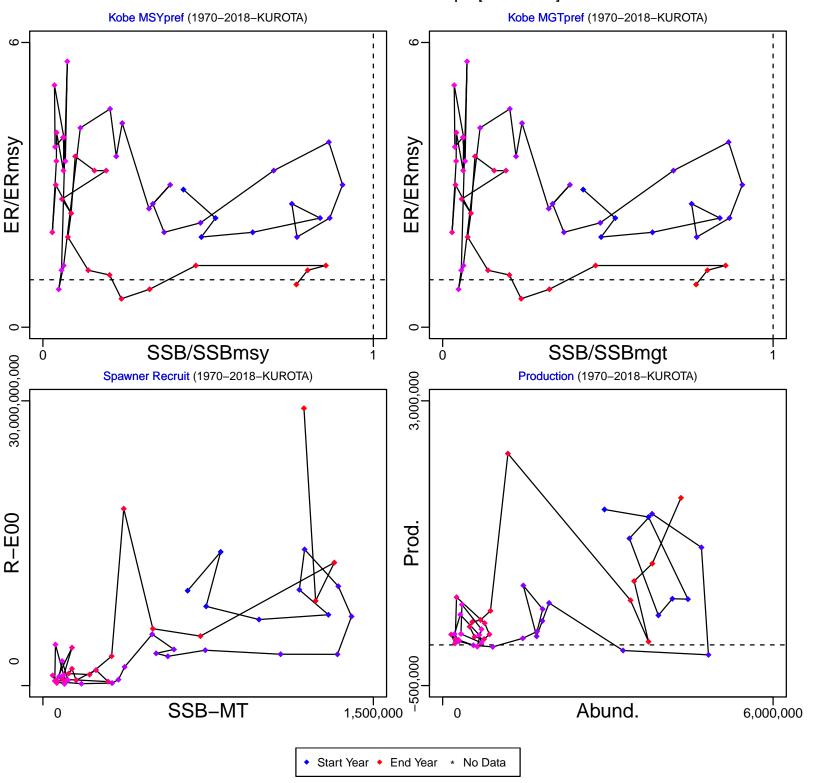


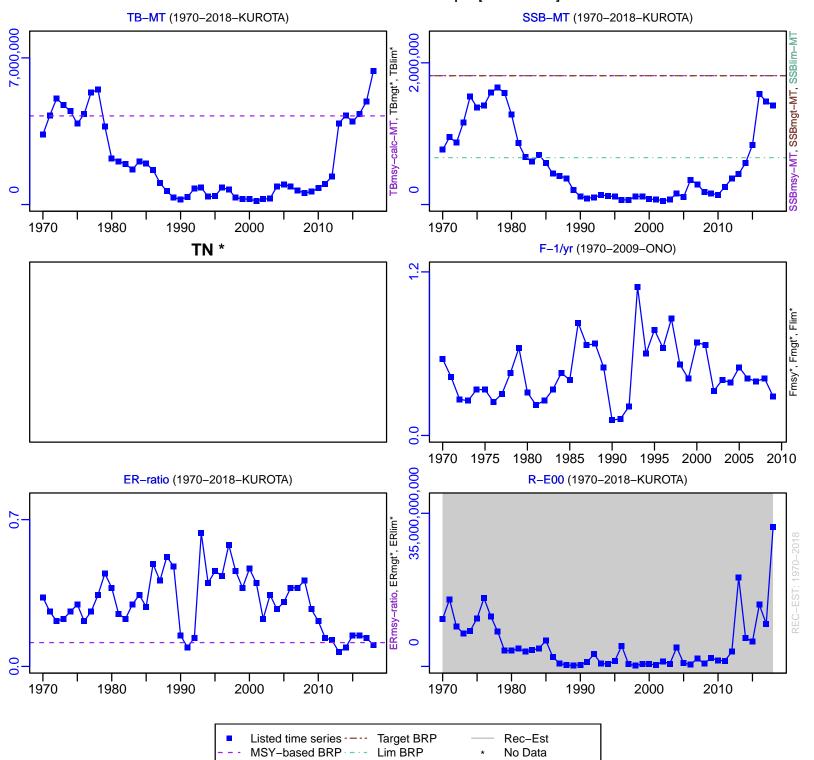


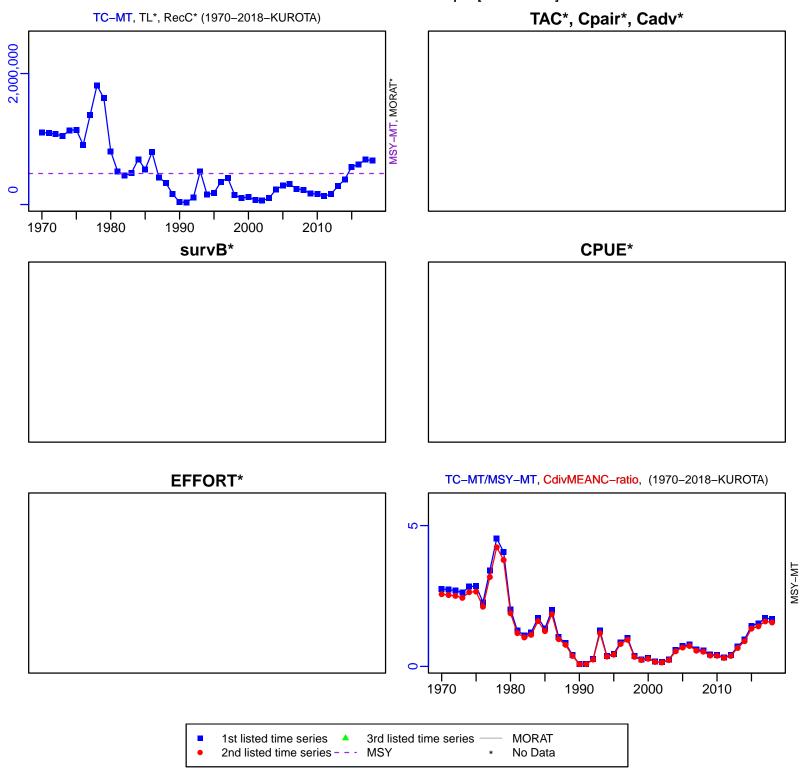
Metadata			
Scientific Name	Scomber japonicus		
Current Assess ID FAFRFJ-CMACKPJPN-1970-2018-KUROTA			
Area Pacific Coast of Japan			
Management Authority Fisheries Agency of Japan			
Assessor Fisheries Agency and Fisheries Research Agency of Ja			
Asmts in RAM	2009, 2013, 2018		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2018	3,720,000	
SSBmsy	SSBmsy-MT	2018	1,545,000	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2018	0.1	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2018	1,545,000	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	372,000	
М	M-1/yr	2018	0.4	
TBlim	TBlim-MT	2009	450	
SSBlim	SSBlim-MT	2018	562,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	5,595,000	Both	0
SSB	SSB-MT	2018	1,185,000	Both	2
TN	-	-	-	-	-
R	R-E00	2018	2.9212×10^{10}	Both	0
F	F-1/yr	2009	0.28	Both	0 to 5
ER	ER-ratio	2018	0.09	Both	-
TC	TC-MT	2018	526,573		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	1.504]	
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.767		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	0.9		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.767		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



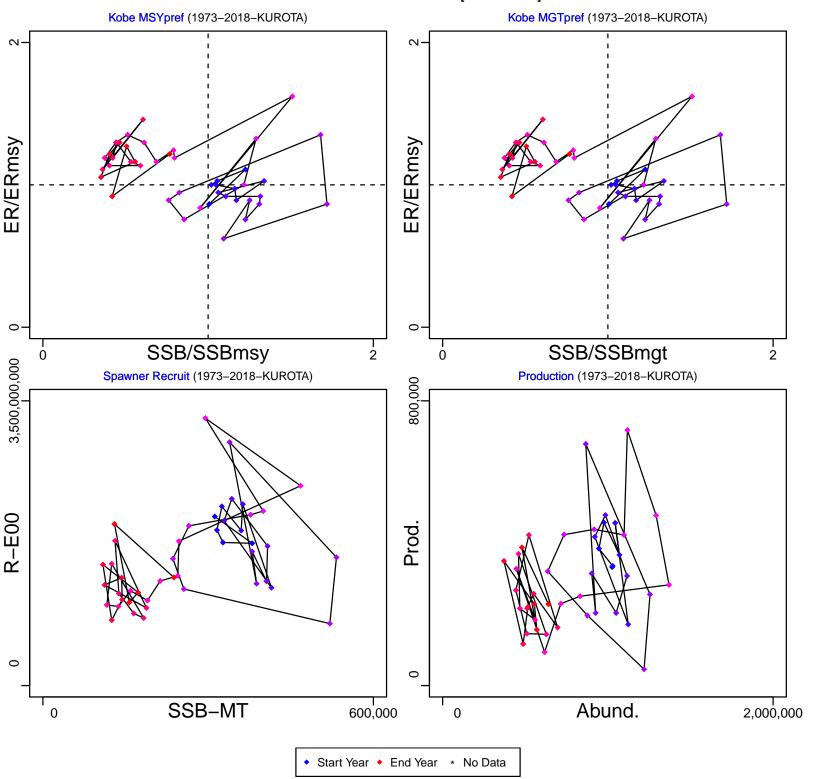


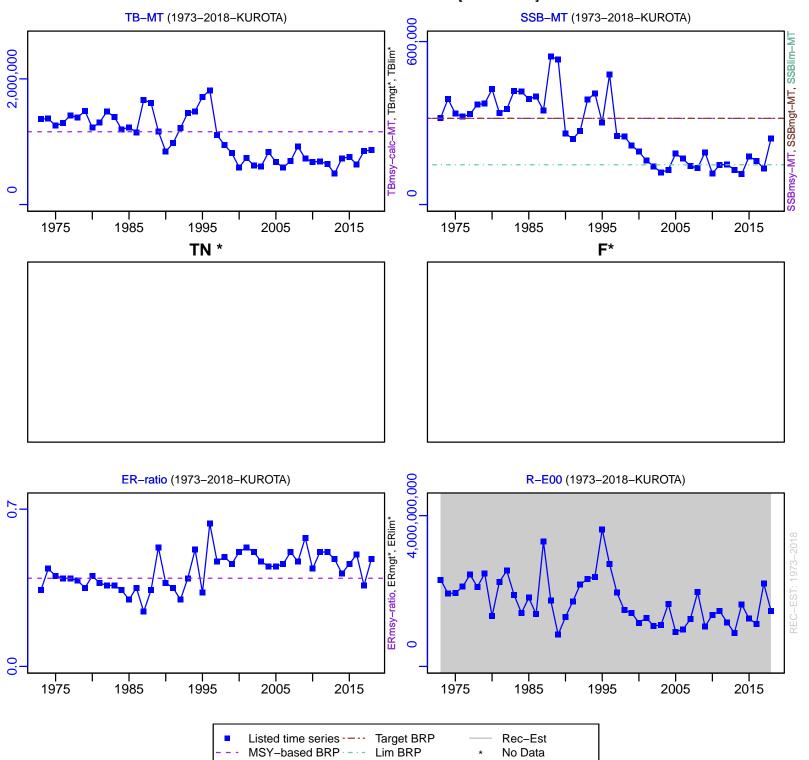


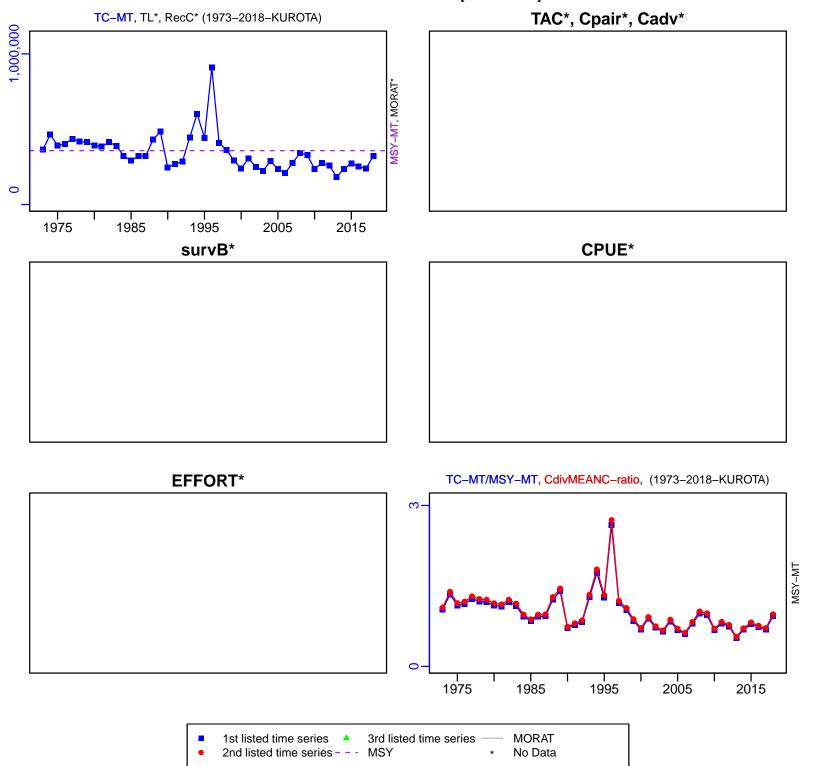
Metadata			
Scientific Name	Scomber japonicus		
Current Assess ID FAFRFJ-CMACKTSST-1973-2018-KUROTA			
Area Tsushima Strait			
Management Authority	Fisheries Agency of Japan		
Assessor Fisheries Agency and Fisheries Research Agency of Japan			
Asmts in RAM	2013, 2018		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2018	872,973	
SSBmsy	SSBmsy-MT	2018	310,000	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2018	0.37	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2018	310,000	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	323,000	
M	M-1/yr	2018	0.4	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2018	143,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	654,000	Both	0
SSB	SSB-MT	2018	238,000	Both	1
TN	-	-	-	-	-
R	R-E00	2018	1.329×10^{9}	Both	0
F	-	-	-	-	-
ER	ER-ratio	2018	0.45	Both	-
TC	TC-MT	2018	292,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	0.749		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.768		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	1.216		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.768		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



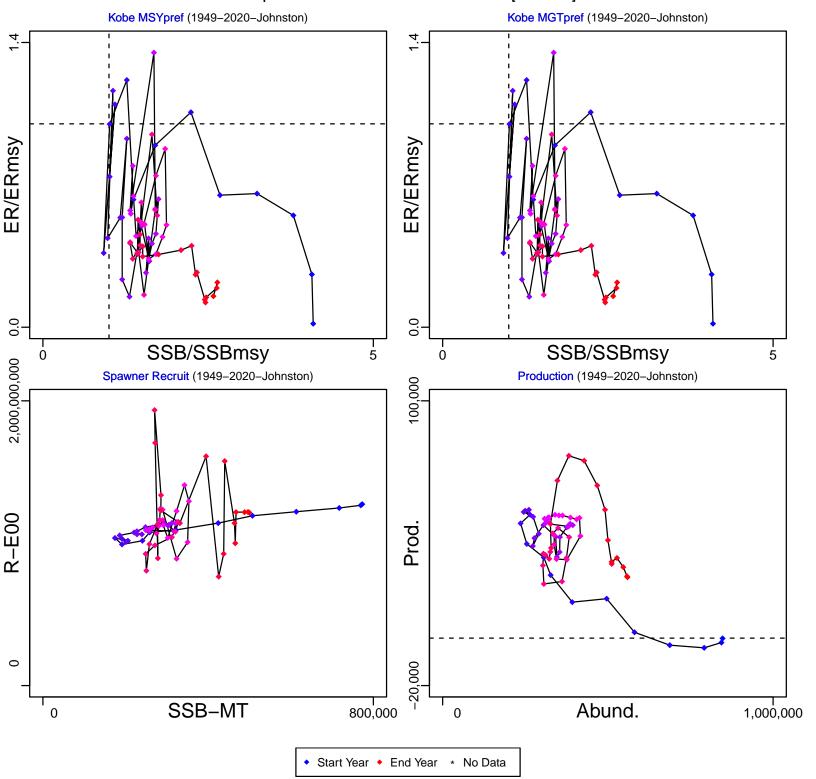


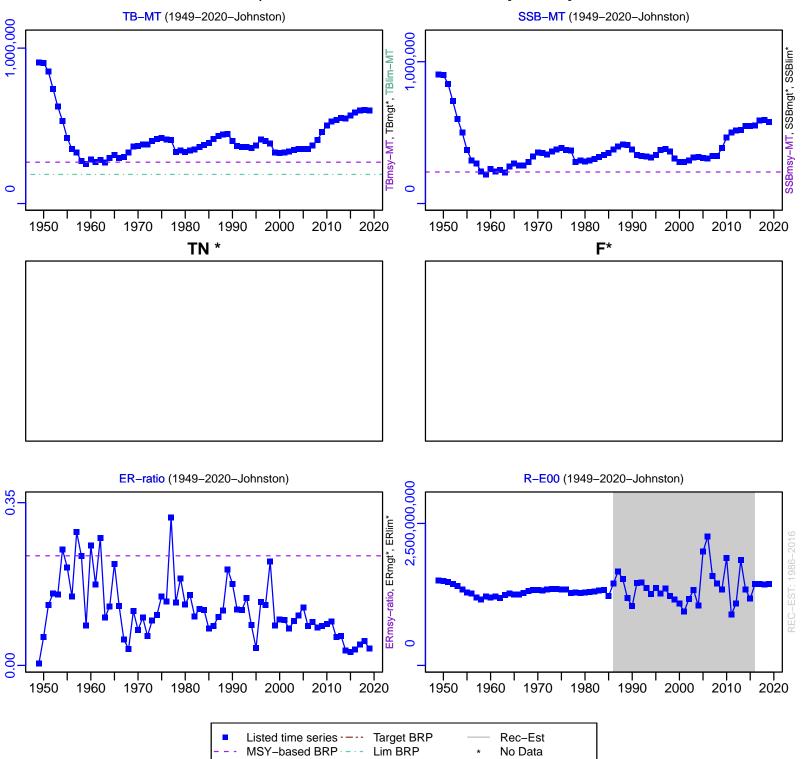


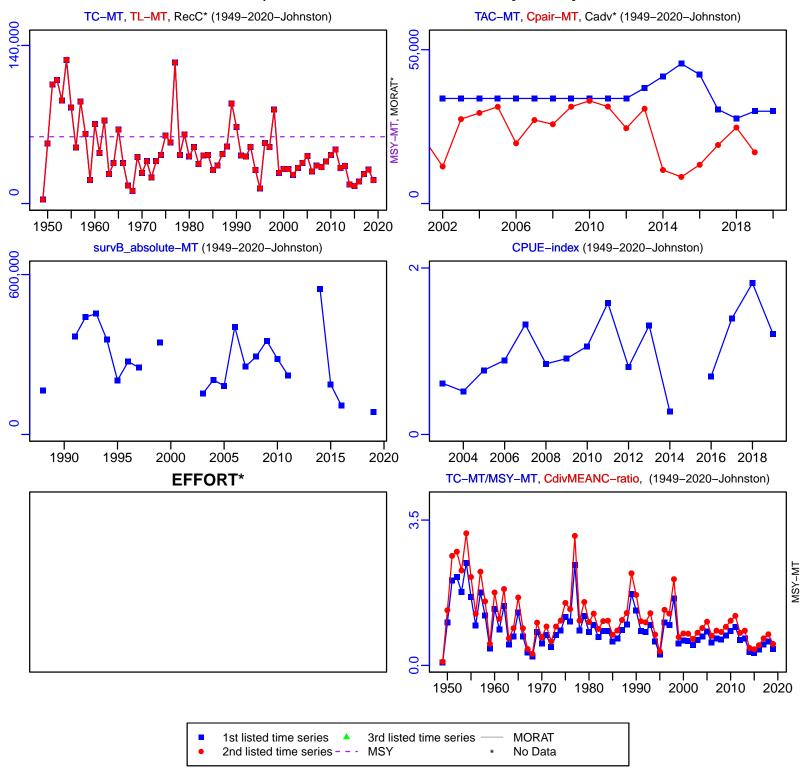
Metadata		
Scientific Name	Trachurus capensis	
Current Assess ID	MARAM-CTRACSA-1949-2020-Johnston	
Area	South Africa South coast	
Management Authority	South African national management, Fisheries Branch of	
	Department of Agriculture, Forestry and Fisheries	
Assessor	Marine Resource Assessment and Management Group, Department of	
	Mathematics and Applied Mathematics, University of Cape Town,	
	Rondebosch, 7701, South Africa	
Asmts in RAM	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	-	-	-		







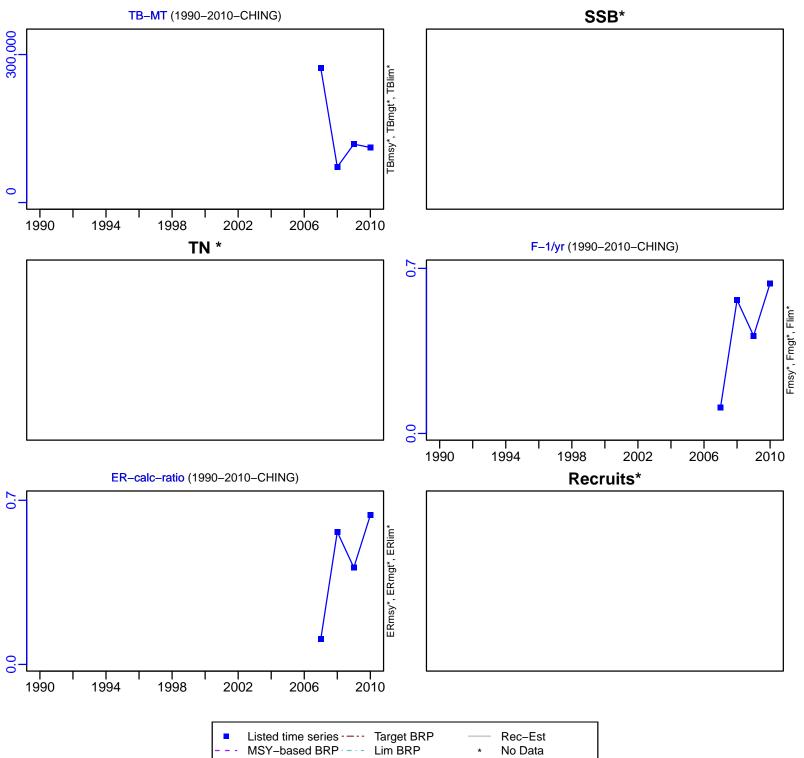
Metadata		
Scientific Name	Caranx rhonchus	
Current Assess ID	FAO-SPNWA-FSCADNWA-1990-2020-HIVELY	
Area	North West Africa	
Management Authority	Food and Agriculture Organization of the United Nations	
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa	
Asmts in RAM	2010, 2018, 2020	

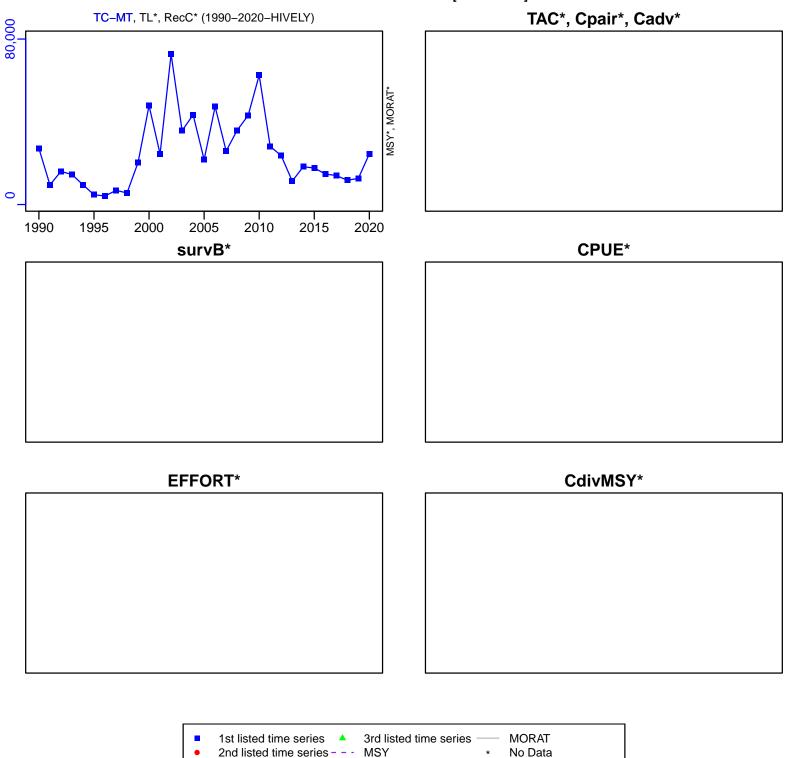
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	99,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.63	-	-
ER	ER-calc-ratio	2010	0.626	-	-
TC	TC-MT	2020	24,273		,,
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

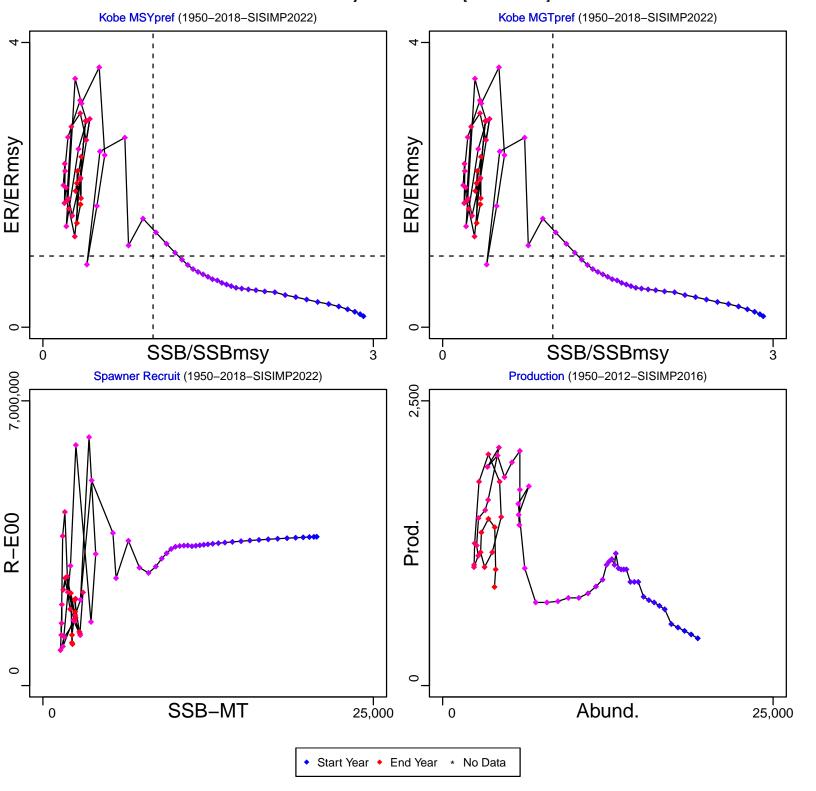


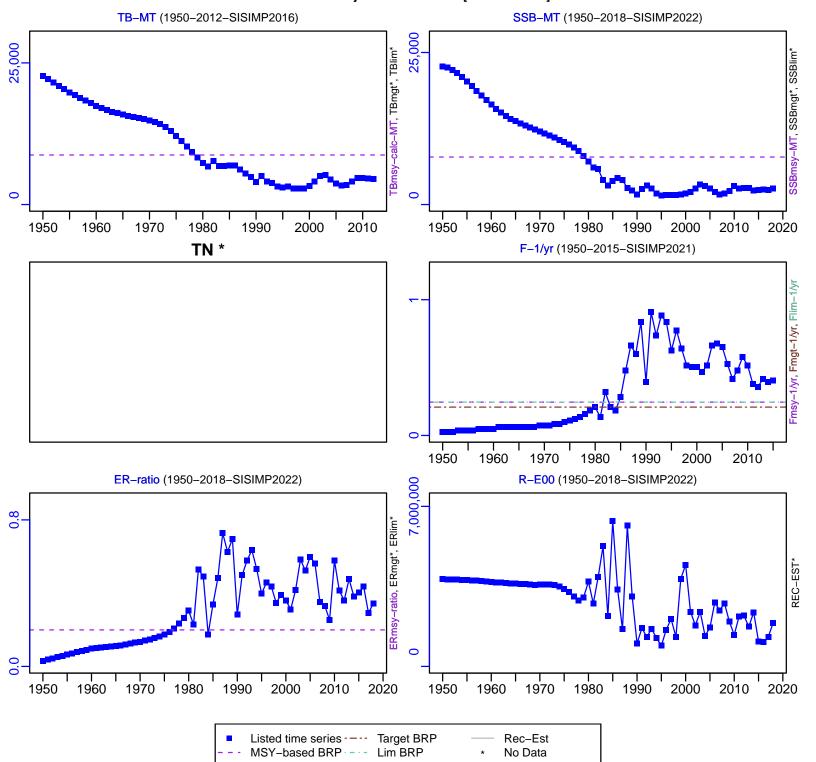


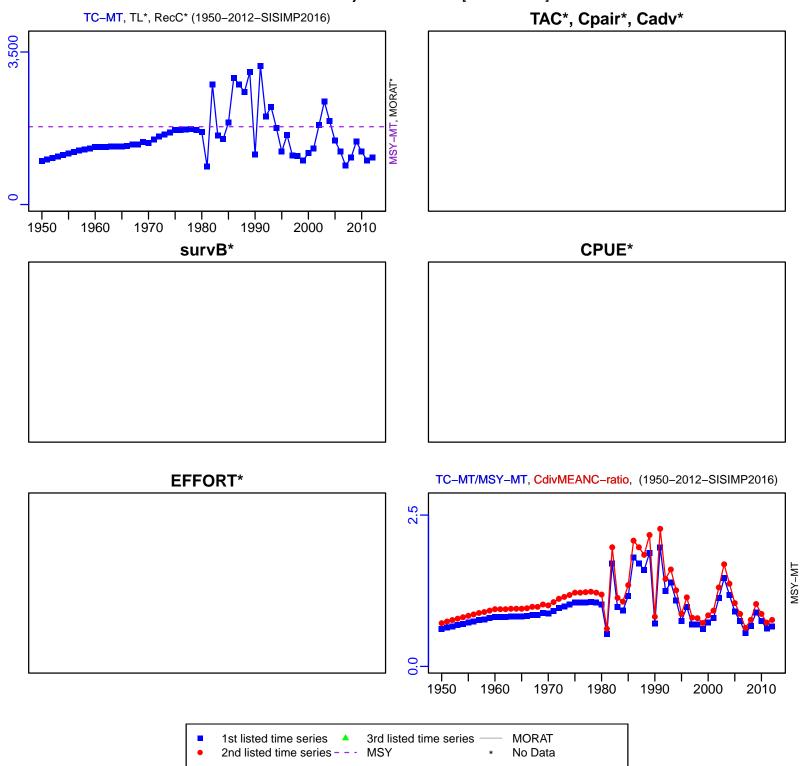
Metadata		
Scientific Name	Seriola dumerili	
Current Assess ID	SEFSC-GRAMBERGM-1950-2018-SISIMP2022	
Area	Gulf of Mexico	
Management Authority	National Marine Fisheries Service, US national management	
Assessor Southeast Fisheries Science Center		
Asmts in RAM	2012, 2015, 2018, 2004	

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2012	7422	
SSBmsy	SSBmsy-MT	2018	7119	
Fmsy	Fmsy-1/yr	2015	0.2	
ERmsy	ERmsy-ratio	2018	0.175	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	Fmgt-1/yr	2015	0.17	
ERmgt	ERmgt-ratio	2012	0.17	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2012	1633	
М	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2015	4094	
Flim	Flim-1/yr	2015	0.2	
ERlim	ERlim-ratio	2012	0.22	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	3860	-	1+
SSB	SSB-MT	2018	2432	-	-
TN	-	-	-	-	-
R	R-E00	2018	1,813,000	-	0
F	F-1/yr	2015	0.33	-	-
ER	ER-ratio	2018	0.302	-	1
TC	TC-MT	2012	983		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	0.52		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.342		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.65		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	1.726		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	1.941		
ER/ERmgt	-	-	-		



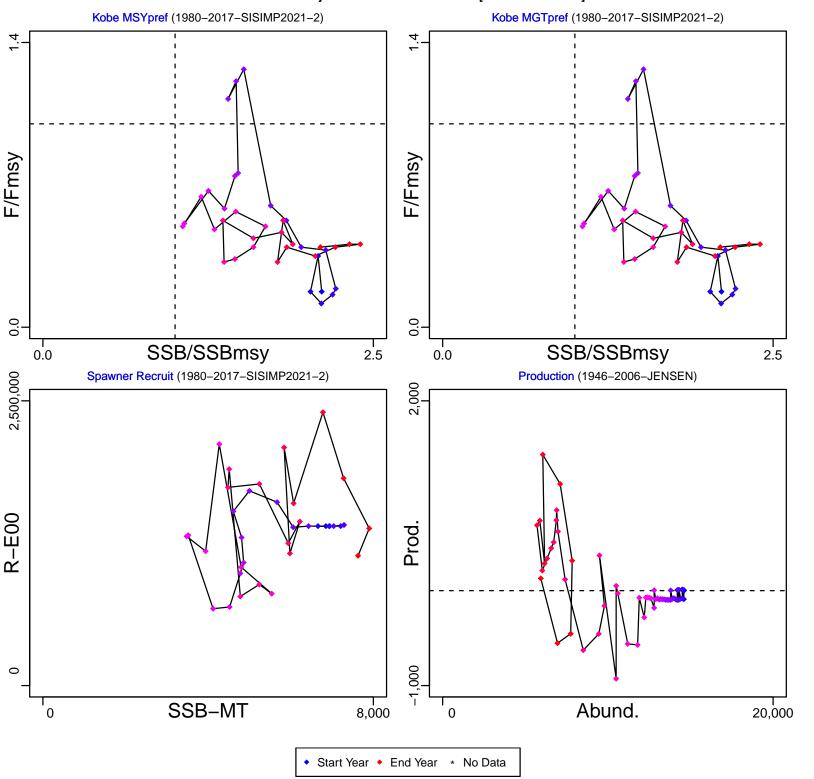


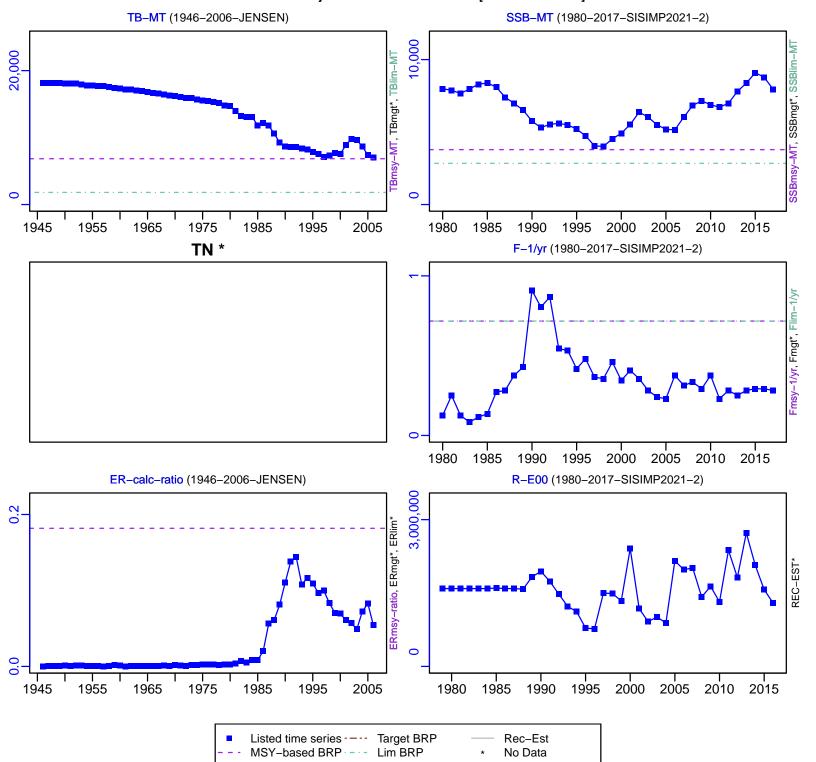


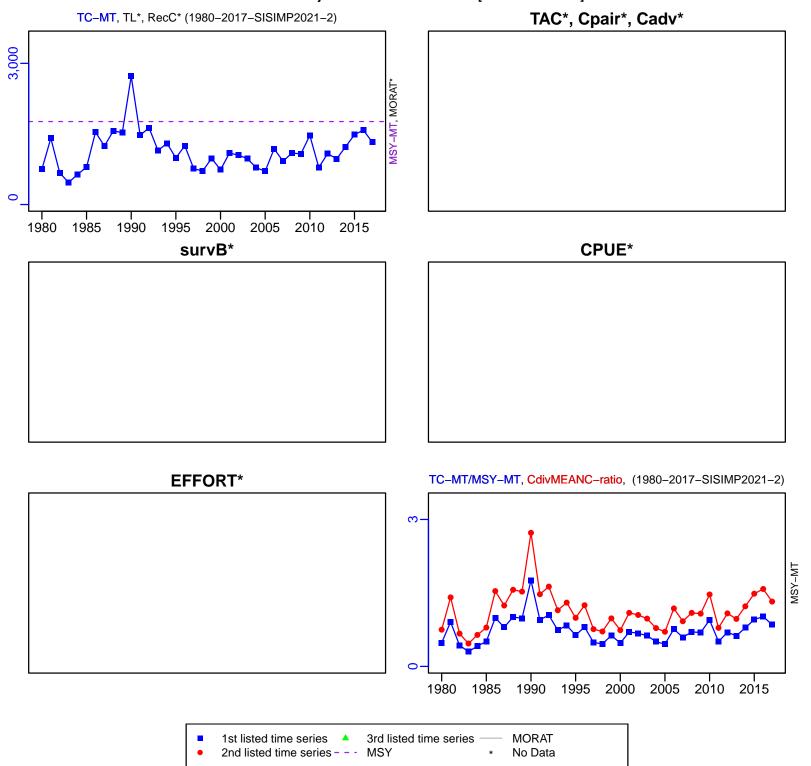
Metadata		
Scientific Name	Seriola dumerili	
Current Assess ID	SEFSC-GRAMBERSATLC-1980-2017-SISIMP2021-2	
Area	Southern Atlantic coast	
Management Authority	National Marine Fisheries Service, US national management	
Assessor Southeast Fisheries Science Center		
Asmts in RAM	2006, 2017	

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2006	5491	
SSBmsy	SSBmsy-MT	2017	3290	
Fmsy	Fmsy-1/yr	2017	0.686	
ERmsy	ERmsy-ratio	2006	0.166	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2017	1492	
М	M-1/yr	2006	0.25	
TBlim	TBlim-MT	2006	1455	
SSBlim	SSBlim-MT	2017	2470	
Flim	Flim-1/yr	2017	0.686	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2006	5620	-	-
SSB	SSB-MT	2017	6910	-	-
TN	-	-	-	-	-
R	R-E00	2017	1,140,000	-	1
F	F-1/yr	2017	0.27	-	-
ER	ER-calc-ratio	2006	0.049	-	-
TC	TC-MT	2017	1120		
TL	TL-MT	2006	278		
TB/TBmsy	TB-MT/TBmsy-MT	2006	1.023		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.1		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.394		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2006	0.299		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







Giant trevally Main Hawaiian Islands [GTREVMHI]

	Metadata
Scientific Name	Caranx ignobilis
Current Assess ID	PIFSC-GTREVMHI-2004-2015-SISIMP2021
Area	Main Hawaiian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fisheries Science Center
Asmts in RAM	2015

F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	309		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

Giant trevally Main Hawaiian Islands [GTREVMHI]

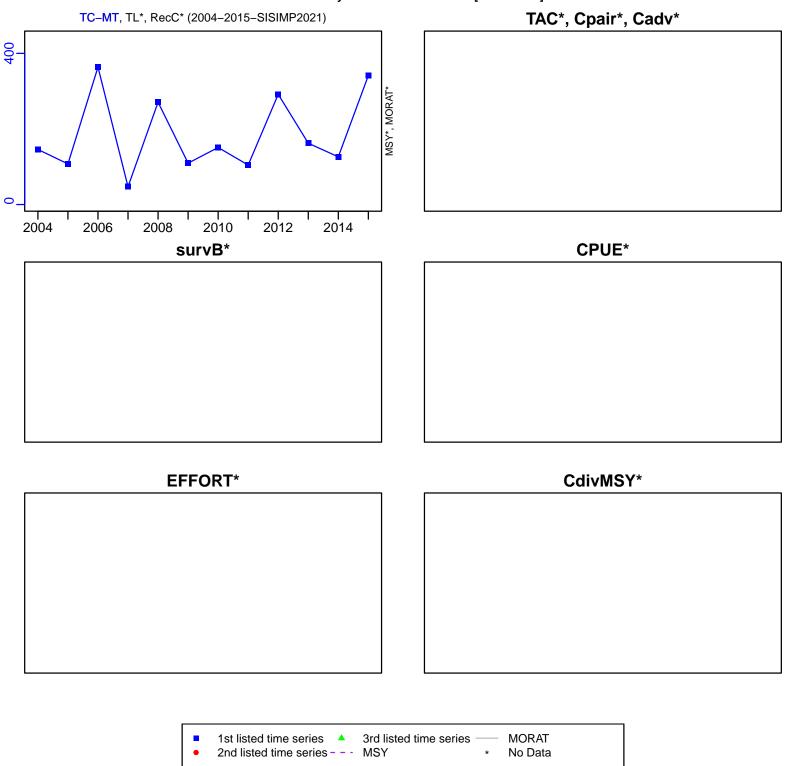
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

Giant trevally Main Hawaiian Islands [GTREVMHI]

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	m BRP * No Data

Giant trevally Main Hawaiian Islands [GTREVMHI]

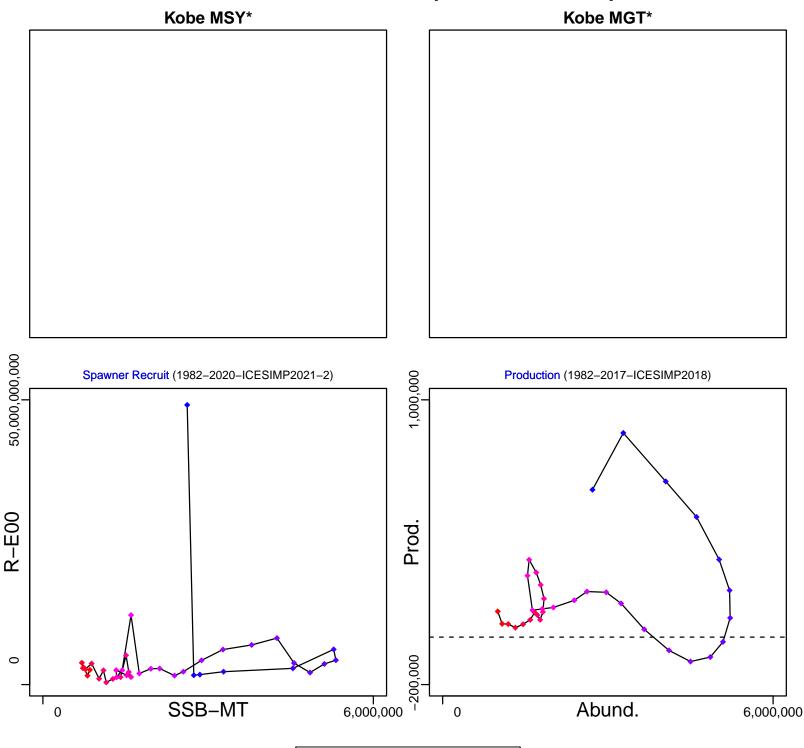


Horse mackerel ICES 2a-4a-5b-6a-7-8 [HMACKIIa-IVa-Vb-VIa-VII-VIII]

Metadata			
Scientific Name	Trachurus trachurus		
Current Assess ID WGWIDE-HMACKIIa-IVa-Vb-Vla-VII-VIII-1982-2020-ICESIMP2021-2			
Area ICES 2a-4a-5b-6a-7-8			
Management Authority	International Council for the Exploration of the Sea		
Assessor	Working Group on Widely Distributed Stocks		
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2020		

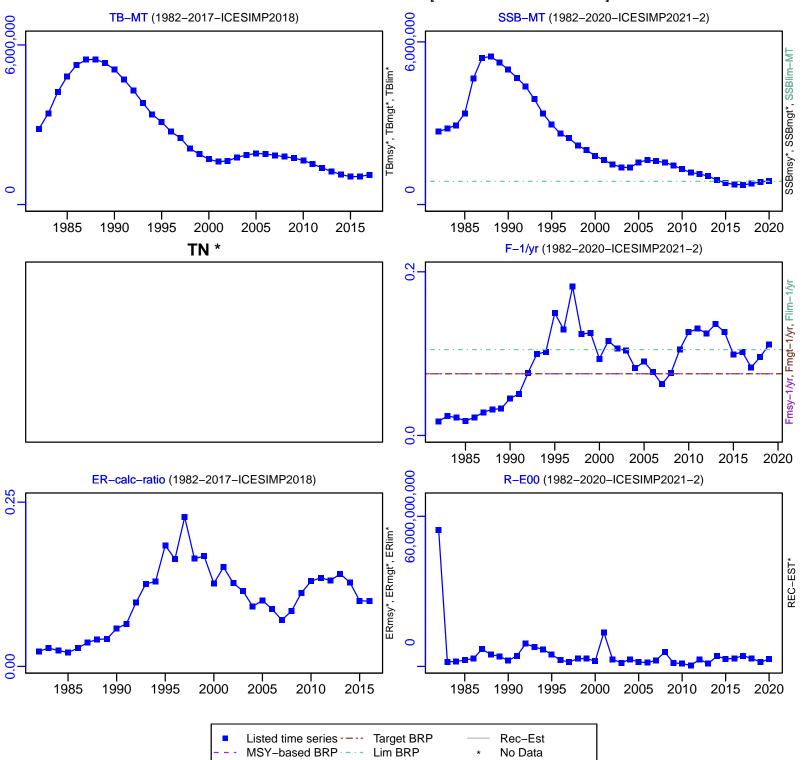
Reference Points						
Туре	7.					
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	Fmsy-1/yr	2020	0.074			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	Fmgt-1/yr	2020	0.074			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	-	-	-			
M	-	-	-			
TBlim	-	-	-			
SSBlim	SSBlim-MT	2020	834,000			
Flim	Flim-1/yr	2020	0.103			
ERlim	-	-	-			

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	1,070,000	Both	-
SSB	SSB-MT	2020	853,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	2.58×10^{9}	-	0
F	F-1/yr	2020	0.109	-	-
ER	ER-calc-ratio	2017	0.098	-	-
TC	TC-MT	2020	125,000		
TL	TL-MT	2019	99,072		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	1.473		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	1.473		
ER/ERmgt	-	-	-		

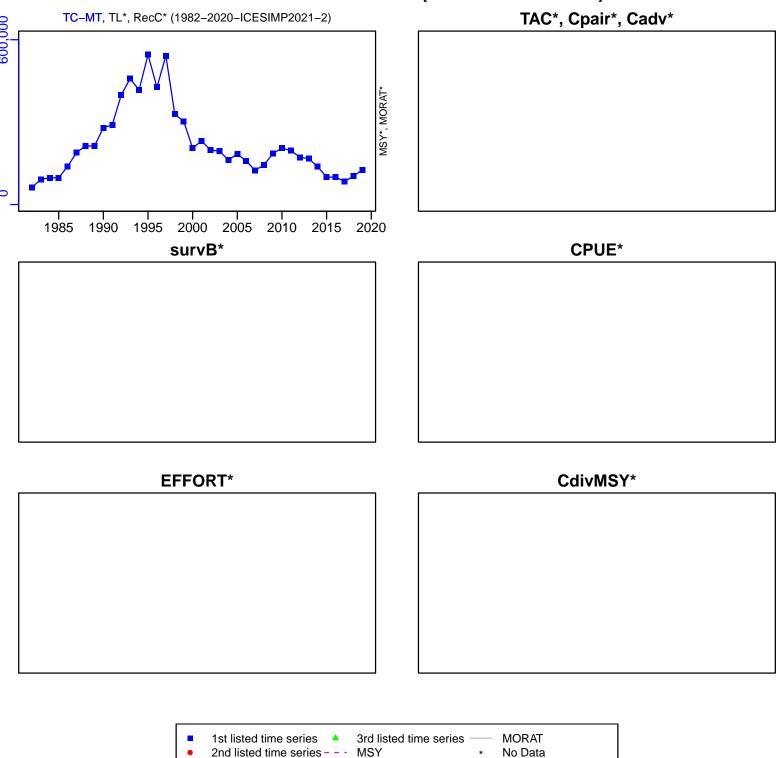


Start Year • End Year • No Data

Horse mackerel ICES 2a-4a-5b-6a-7-8 [HMACKIIa-IVa-Vb-VIa-VII-VIII]



Horse mackerel ICES 2a-4a-5b-6a-7-8 [HMACKIIa-IVa-Vb-VIa-VII-VIII]



Horse mackerel ICES 3a-4bc-7d [HMACKIIIa-IVbc-VIId]

Metadata			
Scientific Name	Trachurus trachurus		
Current Assess ID	WGWIDE-HMACKIIIa-IVbc-VIId-1982-2020-ICESIMP2021-2		
Area ICES 3a-4bc-7d			
Management Authority	International Council for the Exploration of the Sea		
Assessor	Working Group on Widely Distributed Stocks		
Asmts in RAM	2015, 2015, 2016, 2018, 2020		

Reference Points						
Туре						
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	-	-	-			
М	-	-	-			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	12,600		
TL	TL-MT	2020	12,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

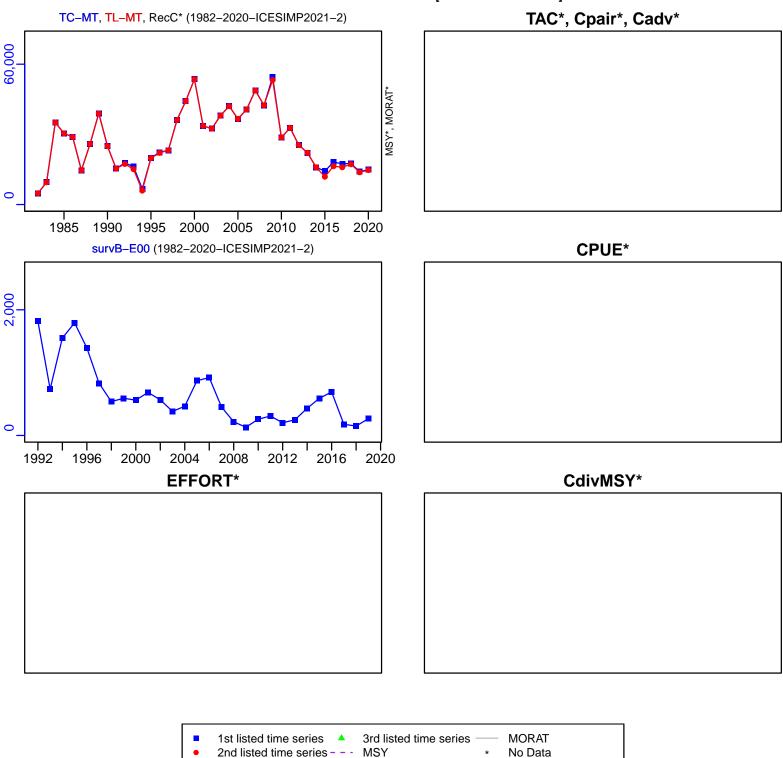
Horse mackerel ICES 3a-4bc-7d [HMACKIlla-IVbc-VIId]

Kobe MSY*	Kobe MGT*
Consumer Descritt	Production*
	Production"
Spawner Recruit*	Troduction
Spawner Necruit	Froduction
Spawner Necruit	Froduction
Spawner Recruit	Froduction
Spawner Recruit	Froduction
Spawner Necruit	
Spawner Necruit	rioduction
Spawner Recruit	

◆ Start Year ◆ End Year * No Data

Horse mackerel ICES 3a-4bc-7d [HMACKIIIa-IVbc-VIId]

TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

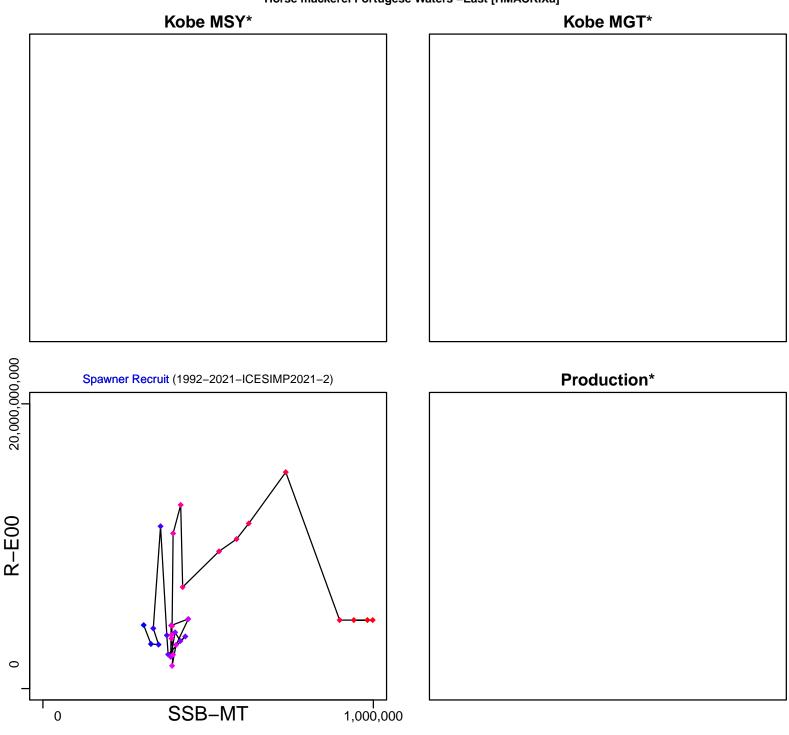


Horse mackerel Portugese Waters -East [HMACKIXa]

Metadata			
Scientific Name	Trachurus trachurus		
Current Assess ID WGHANSA-HMACKIXa-1992-2021-ICESIMP2021-2			
Area Portugese Waters - East			
Management Authority	International Council for the Exploration of the Sea		
Assessor Working Group on Southern Horse Mackerel, Anchovy and Sardin			
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021		

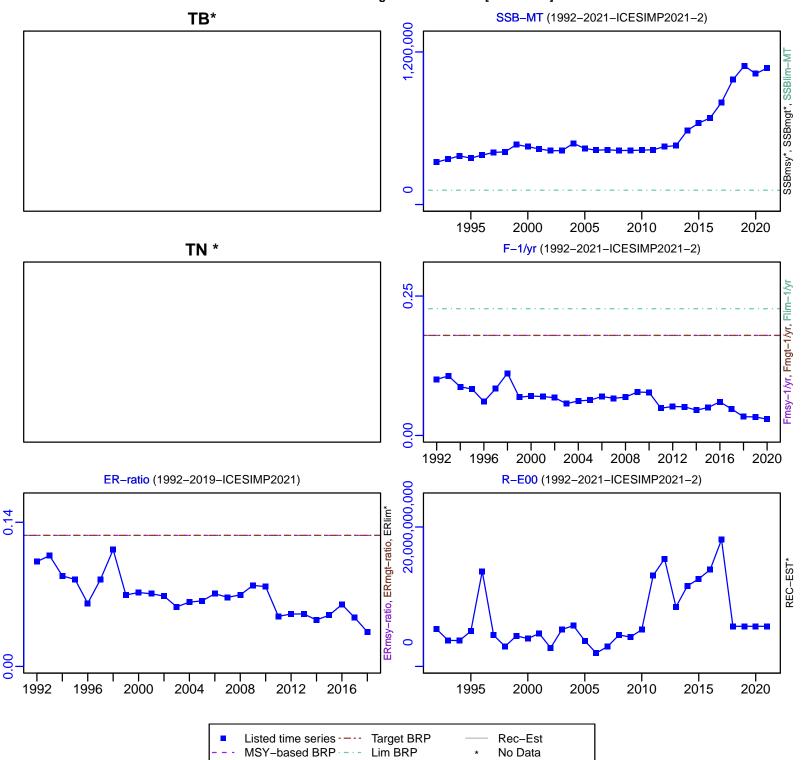
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	Fmsy-1/yr	2021	0.15		
ERmsy	ERmsy-ratio	2019	0.11		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	Fmgt-1/yr	2021	0.15		
ERmgt	ERmgt-ratio	2019	0.11		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2021	103,000		
Flim	Flim-1/yr	2021	0.19		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2021	982,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	4.81×10^{9}	-	0
F	F-1/yr	2021	0.024	-	-
ER	ER-ratio	2019	0.029	-	2 to 10
TC	TC-MT	2021	30,200		
TL	TL-MT	2021	30,200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.162		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.264		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.162		
ER/ERmgt	-	-	-		

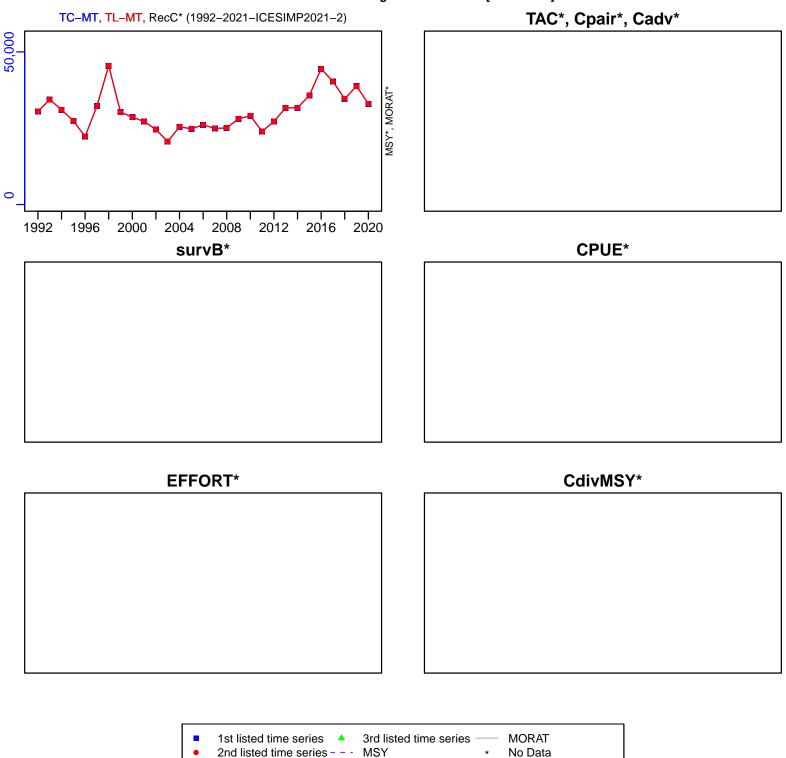


Start Year • End Year * No Data

Horse mackerel Portugese Waters -East [HMACKIXa]



Horse mackerel Portugese Waters -East [HMACKIXa]

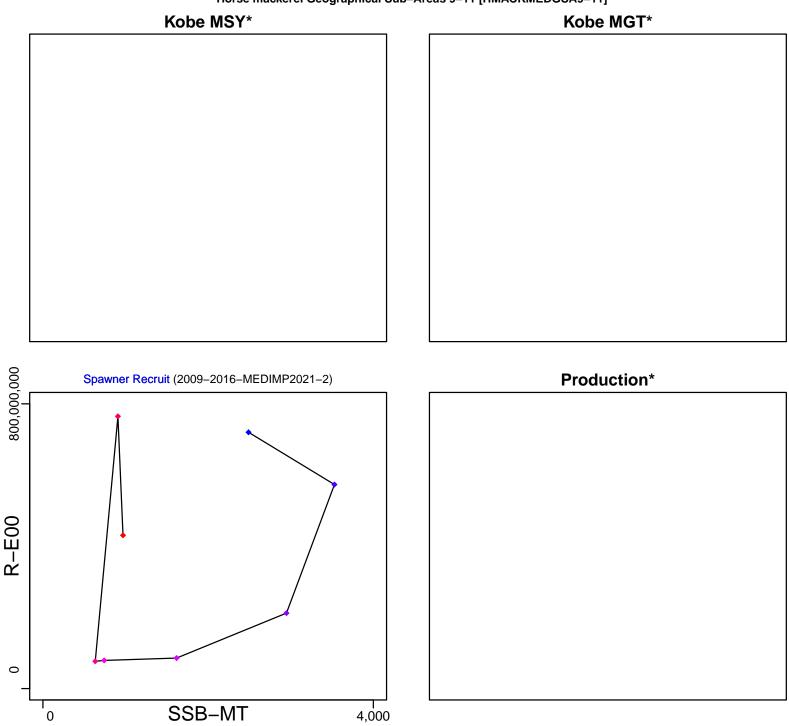


Horse mackerel Geographical Sub-Areas 9-11 [HMACKMEDGSA9-11]

Metadata		
Scientific Name	Trachurus trachurus	
Current Assess ID	STECF-HMACKMEDGSA9-11-2009-2016-MEDIMP2021-2	
Area	Geographical Sub-Areas 9-11	
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states	
Assessor	Scientific, Technical and Economic Committee for Fisheries	
Asmts in RAM	2016	

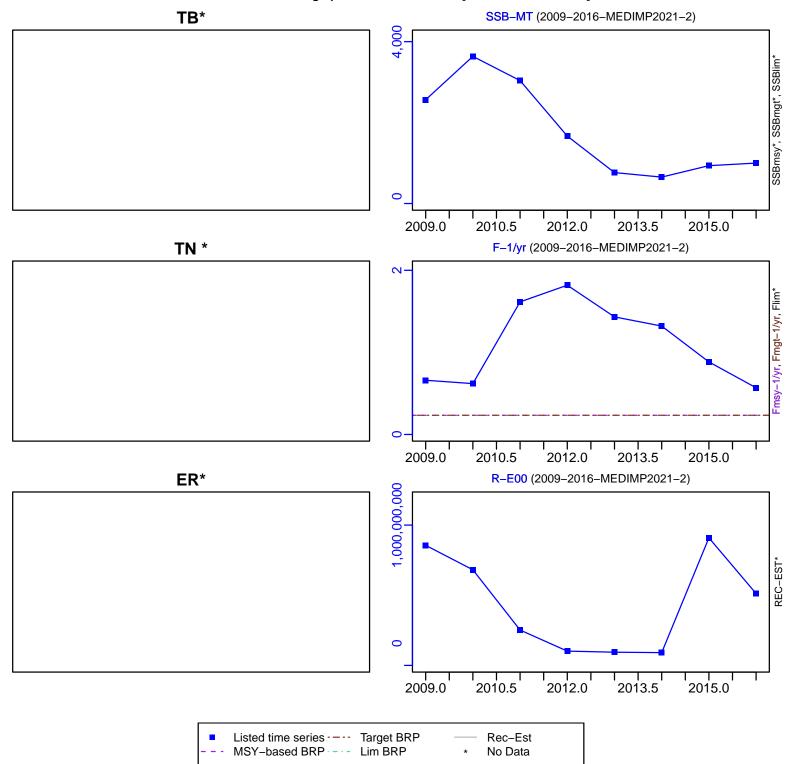
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	Fmsy-1/yr	2016	0.23		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	Fmgt-1/yr	2016	0.23		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2016	970	-	-
TN	-	-	-	-	-
R	R-E00	2016	430,635,000	-	-
F	F-1/yr	2016	0.56	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	3769		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	2.435		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	2.435		
ER/ERmgt	-	-	-		

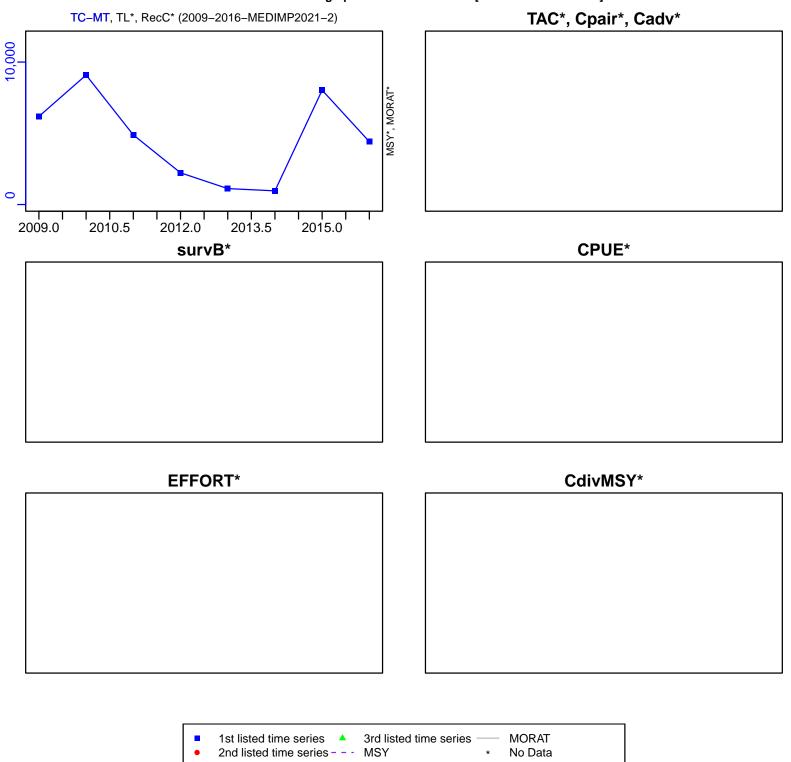


Start Year • End Year * No Data

Horse mackerel Geographical Sub-Areas 9-11 [HMACKMEDGSA9-11]



Horse mackerel Geographical Sub-Areas 9-11 [HMACKMEDGSA9-11]



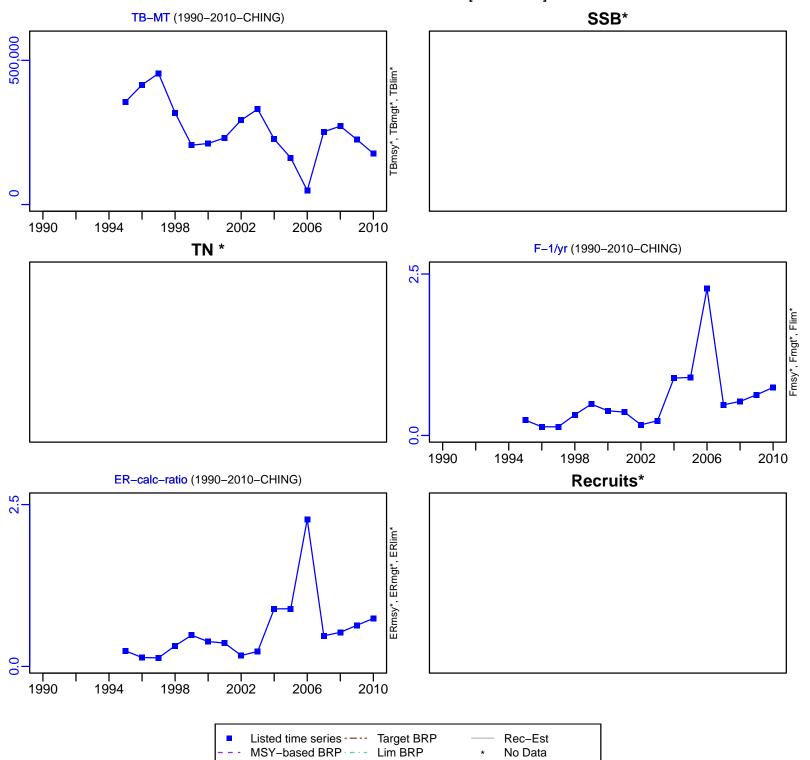
Metadata		
Scientific Name	Trachurus trachurus	
Current Assess ID	FAO-SPNWA-HMACKNWA-1990-2020-HIVELY	
Area North West Africa		
Management Authority Food and Agriculture Organization of the United Nations		
Assessor FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa		
Asmts in RAM	2010, 2016, 2018, 2020	

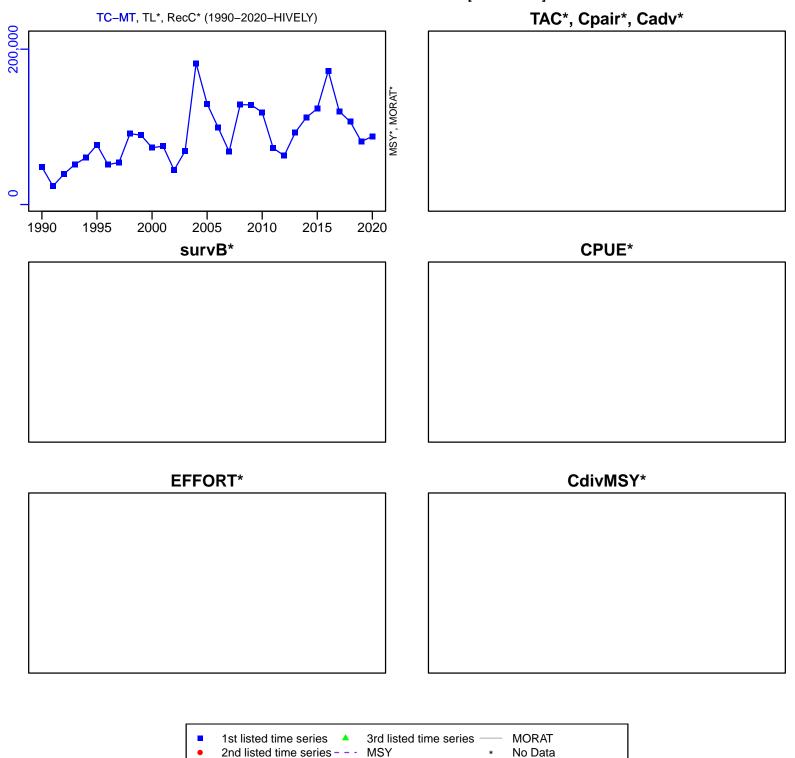
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	153,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.72	-	-
ER	ER-calc-ratio	2010	0.719	-	-
TC	TC-MT	2020	81,709		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Snawner Recruit*	Production*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



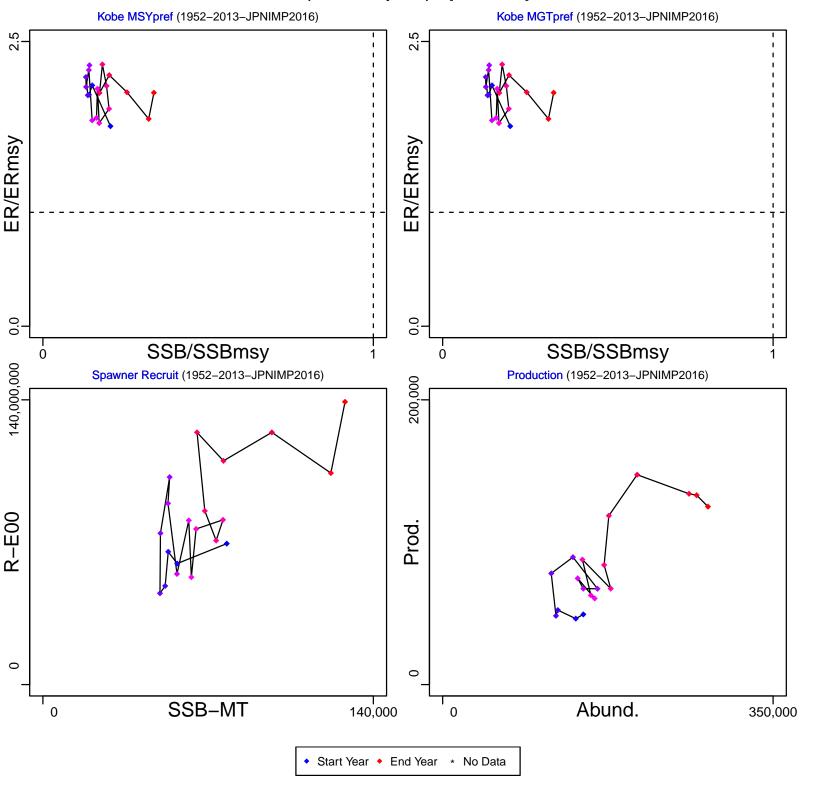


Japanese amberjack Japan [JAMBERJPN]

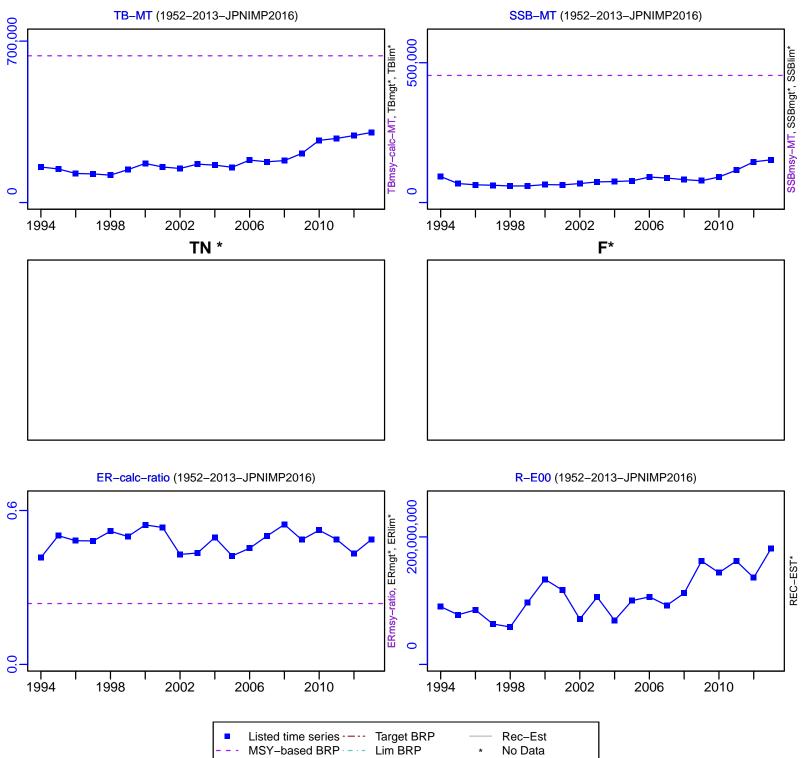
Metadata		
Scientific Name	Seriola quinqueradiata	
Current Assess ID	FAFRFJ-JAMBERJPN-1952-2013-JPNIMP2016	
Area Japan		
Management Authority	Fisheries Agency of Japan	
Assessor Fisheries Agency and Fisheries Research Agency of Japa		
Asmts in RAM	2013	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	615,892	
SSBmsy	SSBmsy-MT	2013	381,043	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.219	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	134,880	
М	M-1/yr	2013	0.3	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

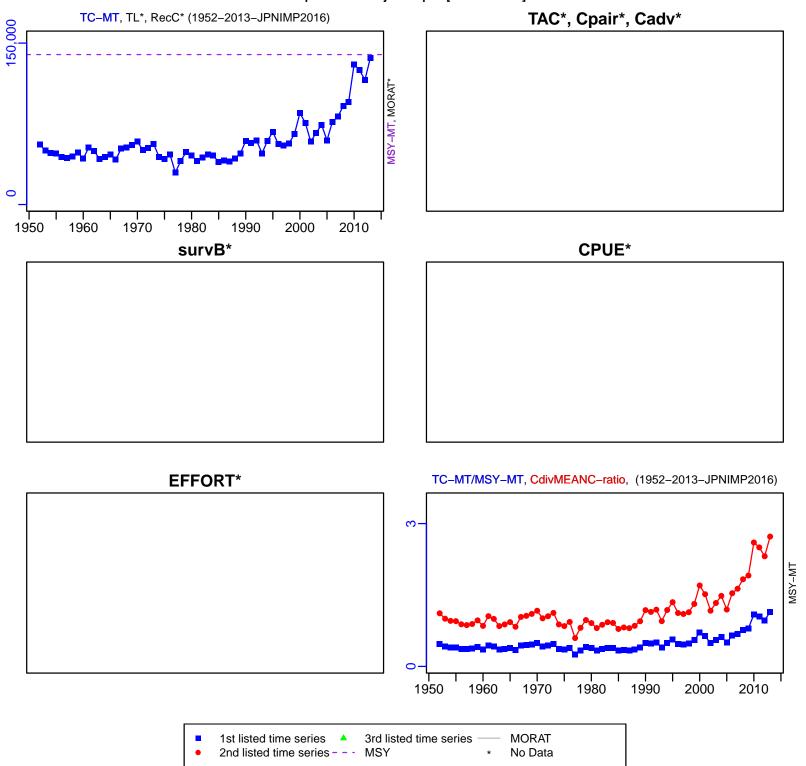
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	294,000	-	0
SSB	SSB-MT	2013	128,000	Both	2
TN	-	-	-	-	-
R	R-E00	2013	1.39×10^{8}	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.449	-	-
TC	TC-MT	2013	132,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.477		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.336		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	2.05		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Japanese amberjack Japan [JAMBERJPN]



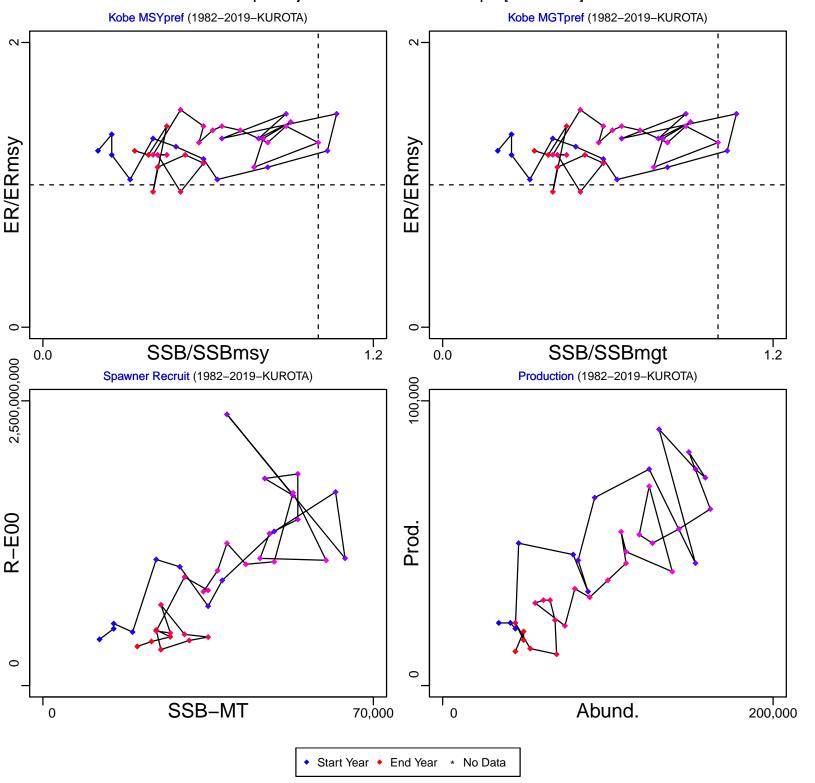
Japanese amberjack Japan [JAMBERJPN]

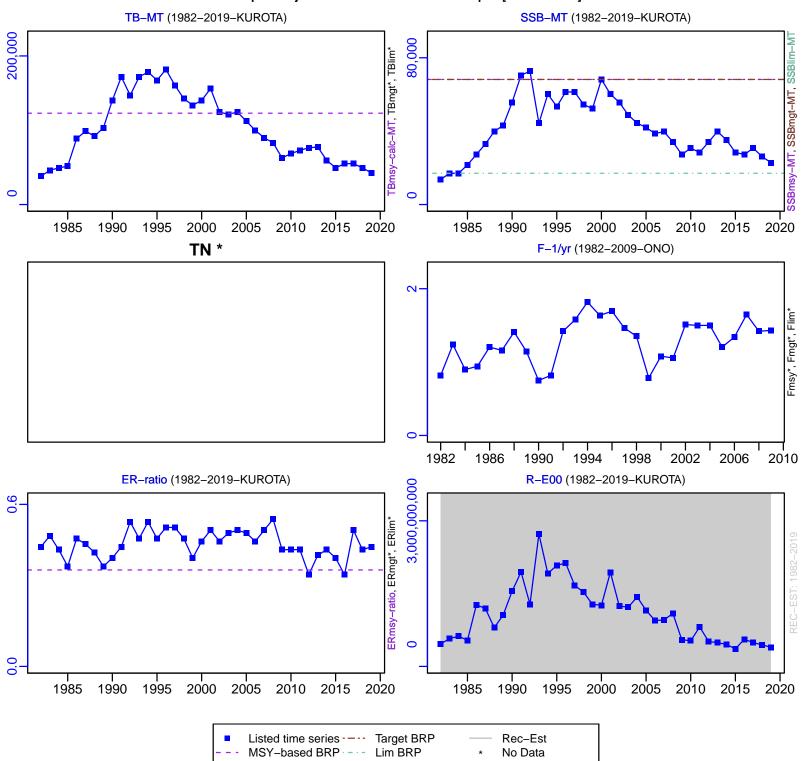


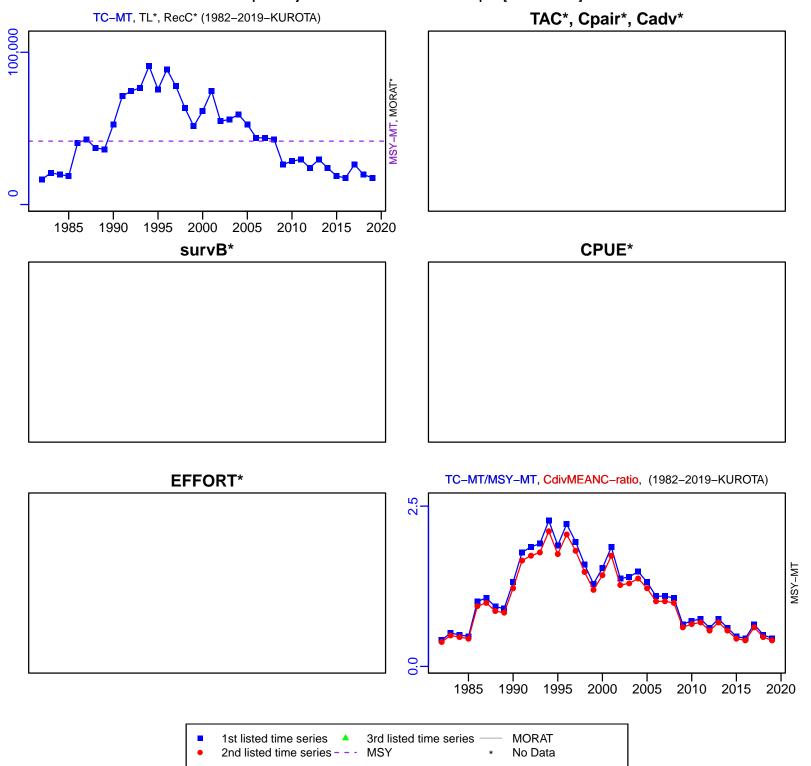
Metadata			
Scientific Name	Trachurus japonicus		
Current Assess ID FAFRFJ-JMACKPJPN-1982-2019-KUROTA			
Area Pacific Coast of Japan			
Management Authority Fisheries Agency of Japan			
Assessor Fisheries Agency and Fisheries Research Agency of Japa			
Asmts in RAM	2009, 2013, 2019		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2019	109,510	
SSBmsy	SSBmsy-MT	2019	60,000	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2019	0.347	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2019	60,000	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	38,000	
М	M-1/yr	2019	0.5	
TBlim	TBlim-MT	2009	24	
SSBlim	SSBlim-MT	2019	15,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	38,000	Both	0
SSB	SSB-MT	2019	20,000	Both	1
TN	-	-	-	-	-
R	R-E00	2019	3.43×10^{8}	Both	0
F	F-1/yr	2009	1.26	Both	0 to 2
ER	ER-ratio	2019	0.43	Both	-
TC	TC-MT	2019	16,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2019	0.347		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.333		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	1.239		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.333		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





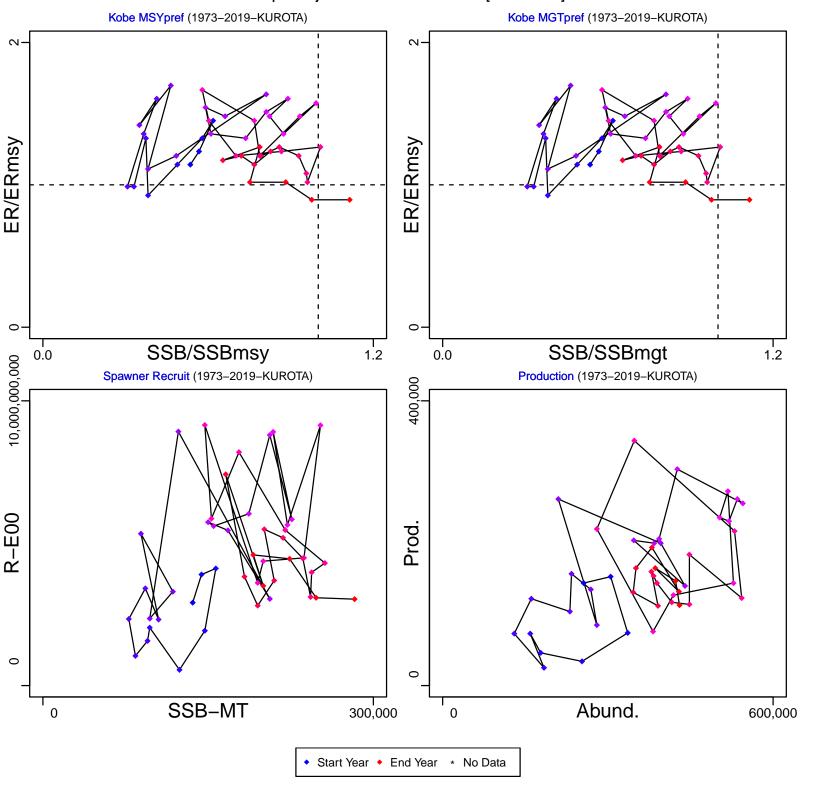


Japanese jack mackerel Tsushima Strait [JMACKTSST]

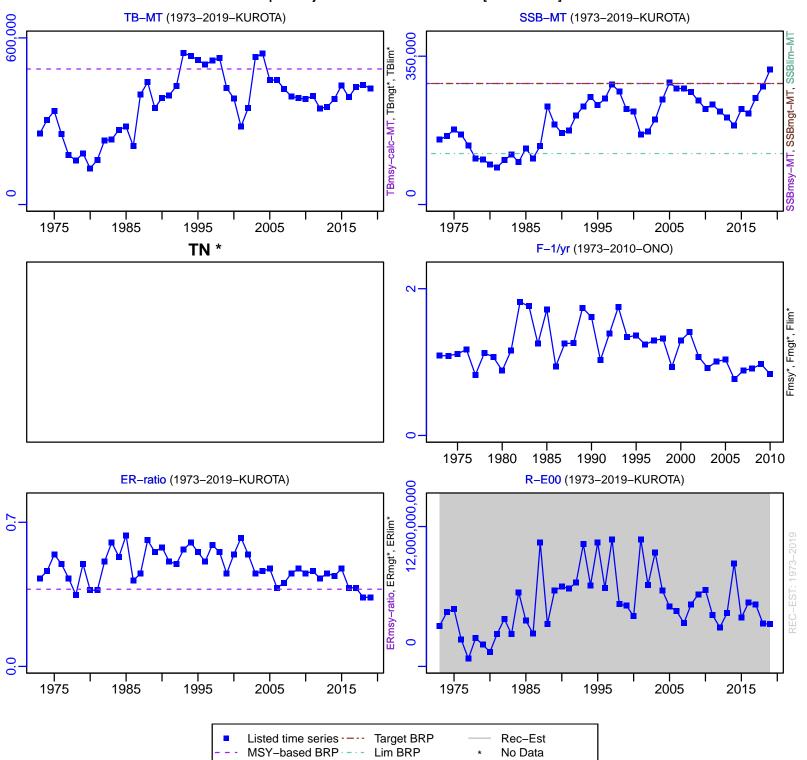
Metadata			
Scientific Name	Trachurus japonicus		
Current Assess ID FAFRFJ-JMACKTSST-1973-2019-KUROTA			
Area	Area Tsushima Strait		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2010, 2013, 2019		

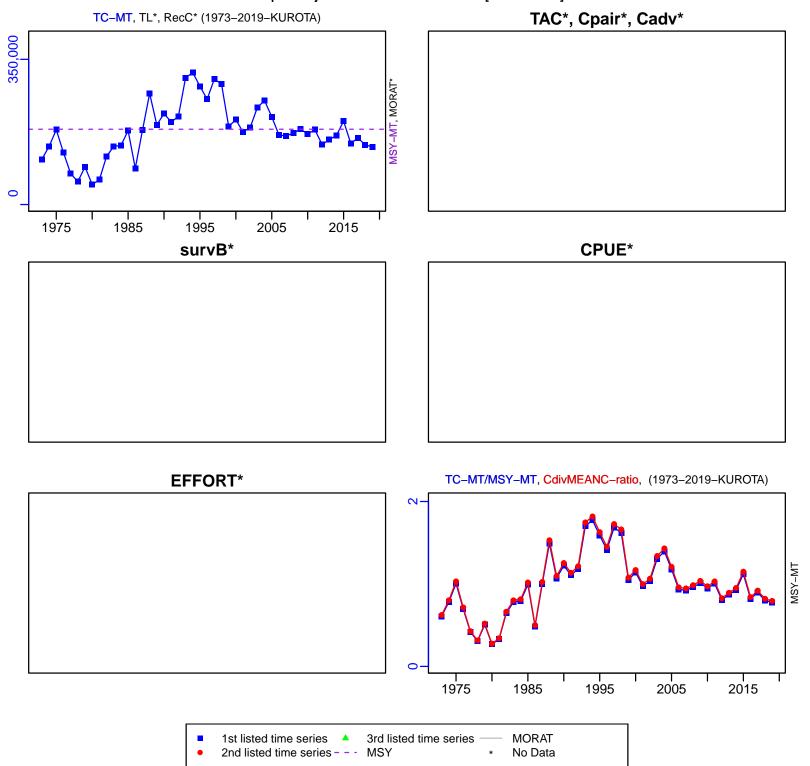
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2019	487,654	
SSBmsy	SSBmsy-MT	2019	254,000	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2019	0.324	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2019	254,000	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	158,000	
М	M-1/yr	2019	0.5	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2019	107,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	418,000	Both	0
SSB	SSB-MT	2019	283,000	Both	1
TN	-	-	-	-	-
R	R-E00	2019	3.035×10^{9}	Both	0
F	F-1/yr	2010	0.736	-	0 to 3
ER	ER-ratio	2019	0.29	Both	-
TC	TC-MT	2019	121,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2019	0.857		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.114		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.895		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.114		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Japanese jack mackerel Tsushima Strait [JMACKTSST]





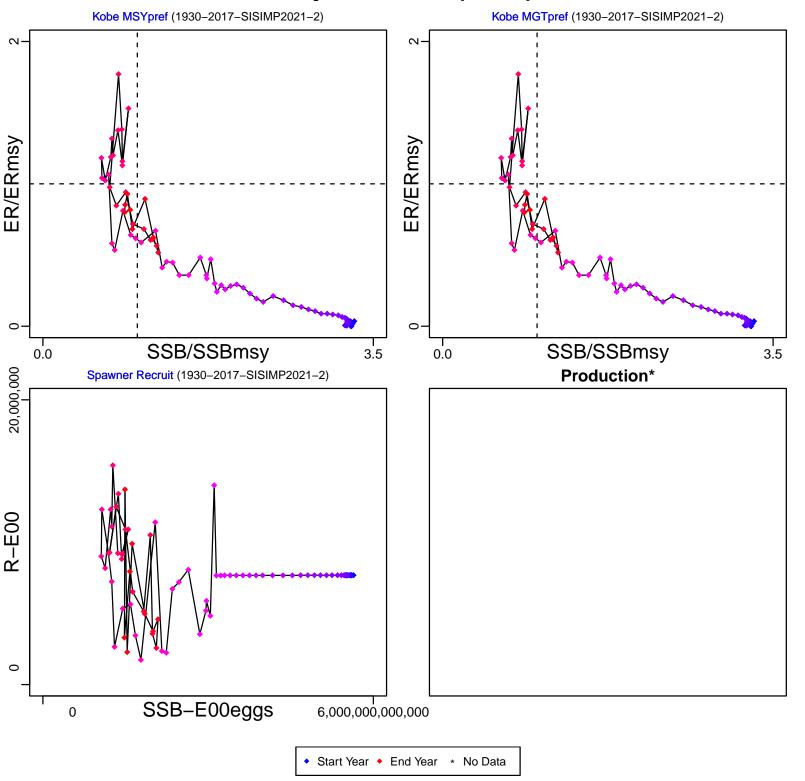
King mackerel Gulf of Mexico [KMACKGM]

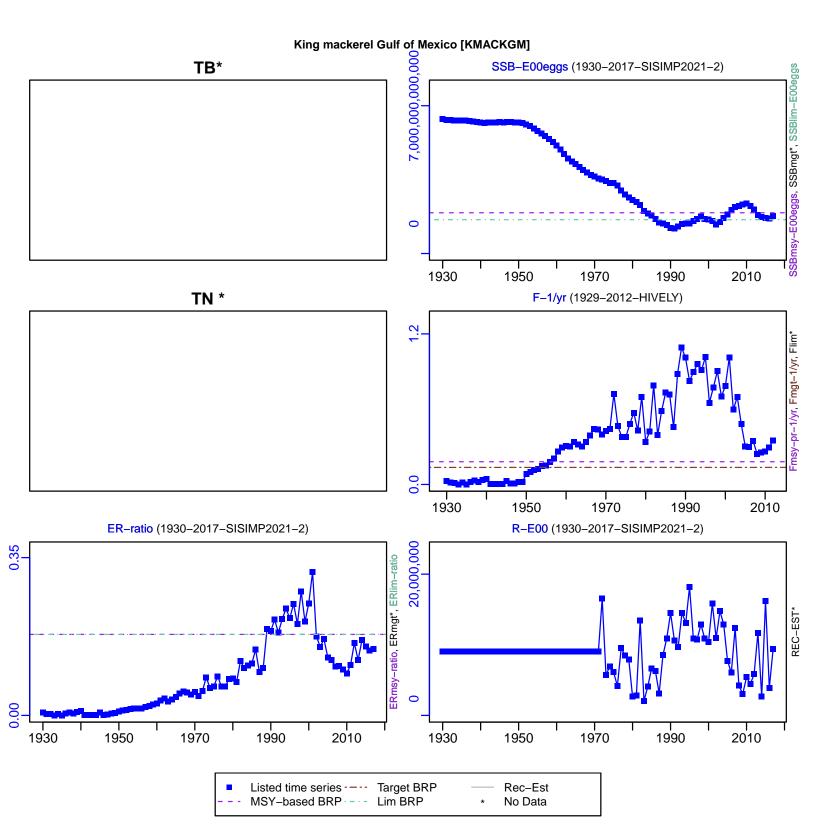
Metadata			
Scientific Name	Scomberomorus cavalla		
Current Assess ID SEFSC-KMACKGM-1930-2017-SISIMP2021-2			
Area	Gulf of Mexico		
Management Authority National Marine Fisheries Service, US national managen			
Assessor	Southeast Fisheries Science Center		
Asmts in RAM	2012, 2017		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00eggs	2017	1.71×10^{12}	
Fmsy	Fmsy-pr-1/yr	2012	0.164	
ERmsy	ERmsy-ratio	2017	0.17	
TBmgt	-	-	-	
SSBmgt	SSBmgt-E00eggs	2012	1,229,070,000	
Fmgt	Fmgt-1/yr	2012	0.123	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2012	0.16	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2017	1.42×10^{12}	
Flim	-	-	-	
ERlim	ERlim-ratio	2017	0.17	

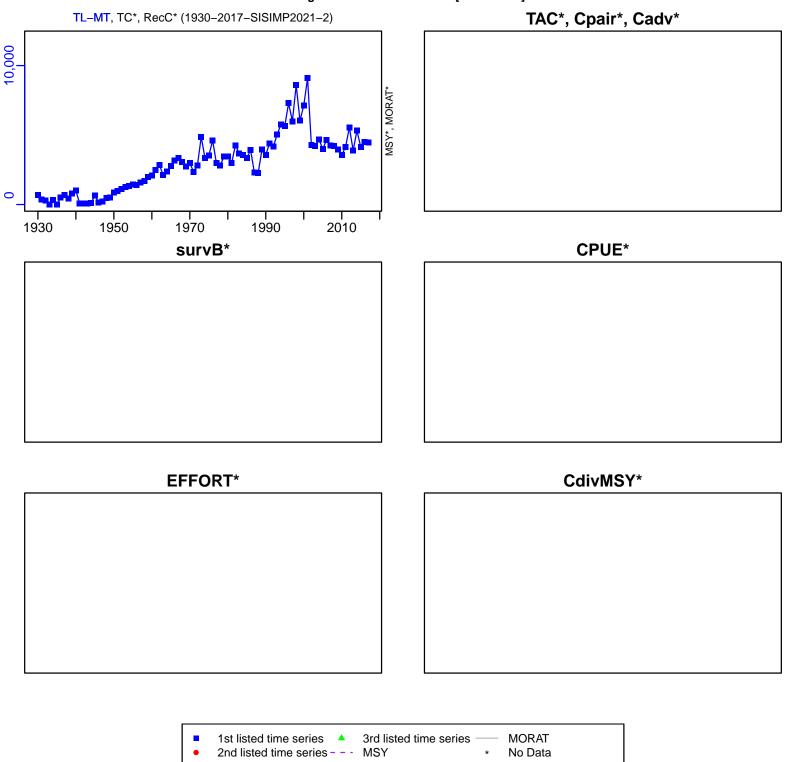
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-E00eggs	2017	1.58×10^{12}	-	-
TN	-	-	-	-	-
R	R-E00	2017	7,940,000	-	0
F	F-1/yr	2012	0.318	-	-
ER	ER-ratio	2017	0.139	-	-
TC	-	-	-		
TL	TL-MT	2017	3710		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2017	0.924		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2012	1.943		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.818		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-E00eggs/SSBmgt-E00eggs	2012	1.928		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	2.592		
ER/ERmgt	-	-	-		

King mackerel Gulf of Mexico [KMACKGM]





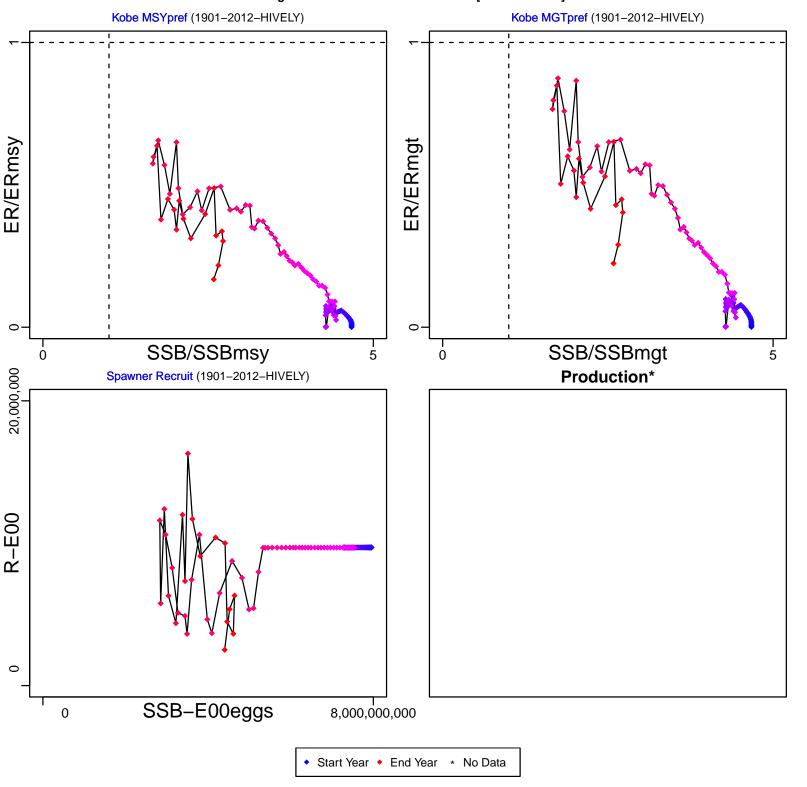
King mackerel Gulf of Mexico [KMACKGM]

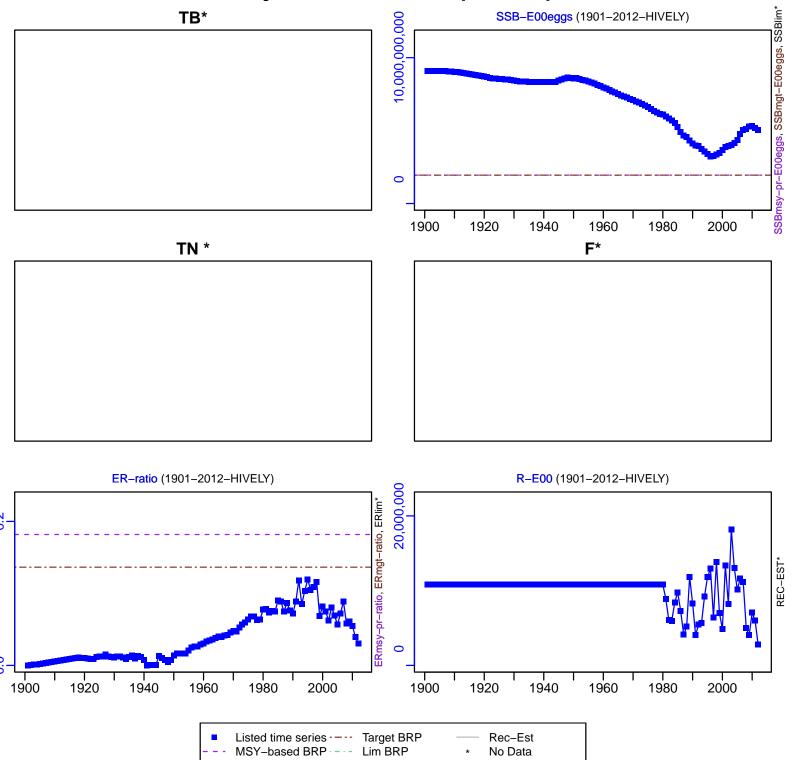


Metadata			
Scientific Name	Scomberomorus cavalla		
Current Assess ID	SEFSC-KMACKSATLC-1901-2012-HIVELY		
Area Southern Atlantic coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southeast Fisheries Science Center		
Asmts in RAM	2012		

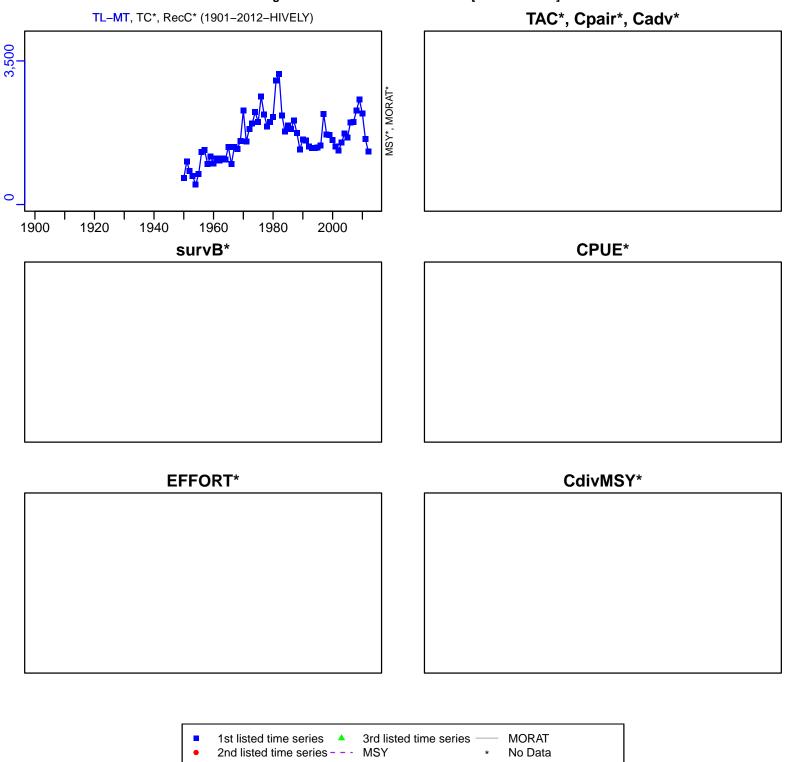
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-E00eggs	2012	1.702×10^{9}
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2012	0.157
TBmgt	-	-	-
SSBmgt	SSBmgt-E00eggs	2012	1.702×10^{9}
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2012	0.118
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-E00eggs	2012	4.4×10^{9}	-	-
TN	-	-	-	-	-
R	R-E00	2012	2,510,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2012	0.026	-	-
TC	-	-	-		
TL	TL-MT	2012	1110		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-pr-E00eggs	2012	2.585		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-pr-ratio	2012	0.168		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-E00eggs/SSBmgt-E00eggs	2012	2.585		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





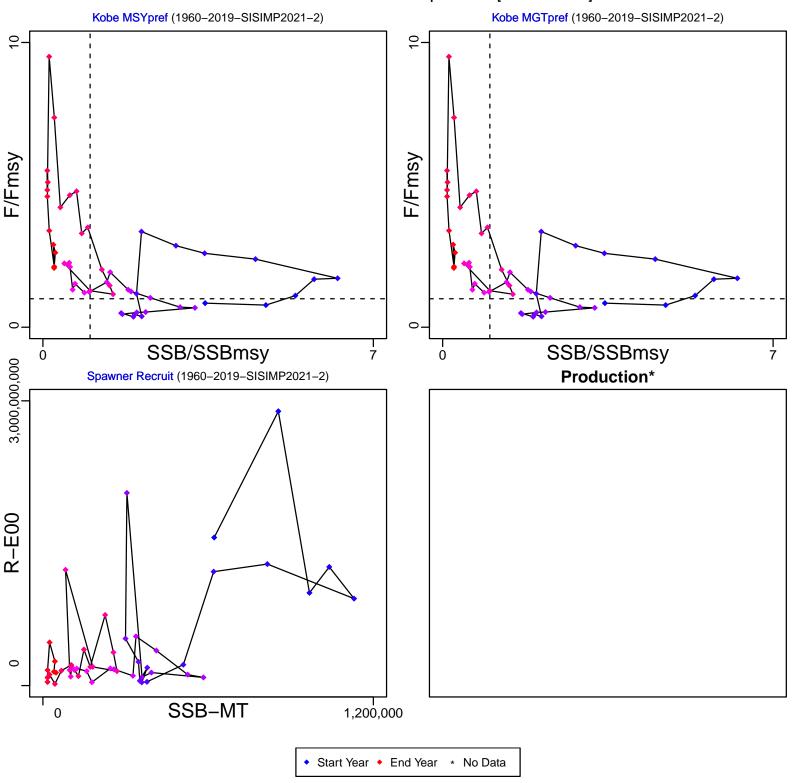
No Data

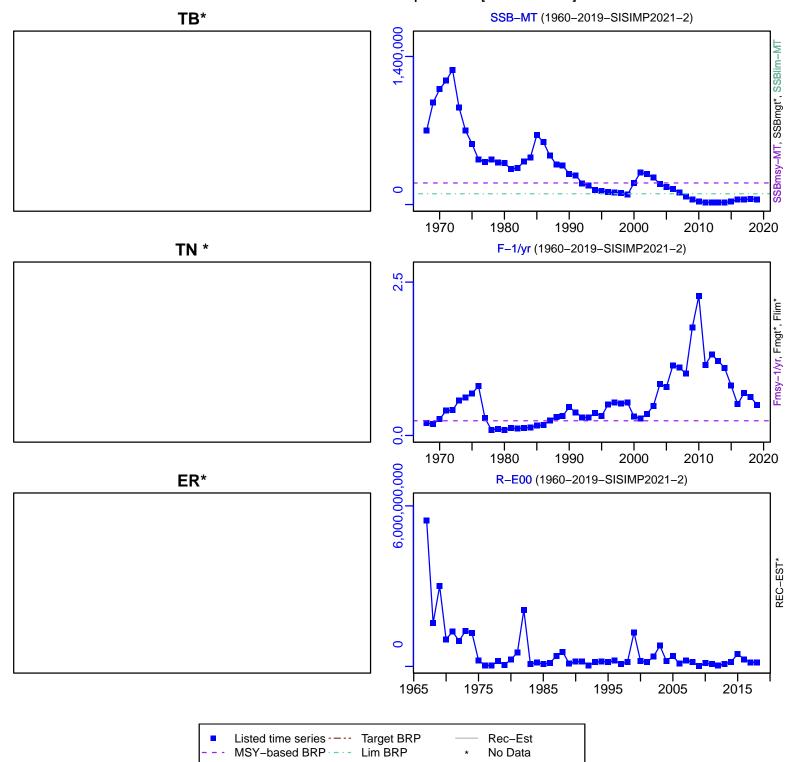


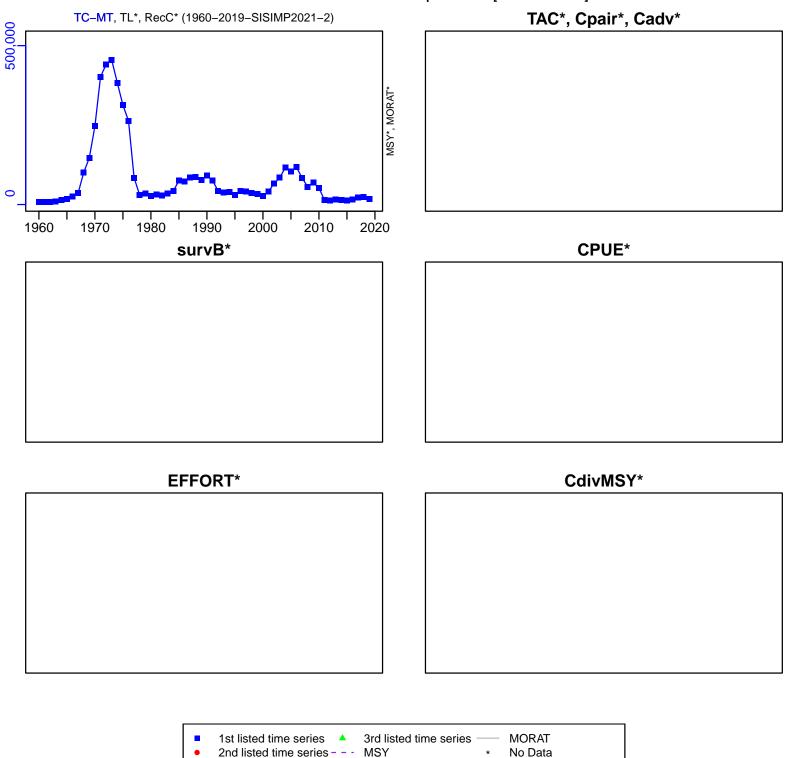
Metadata			
Scientific Name	Scomber scombrus		
Current Assess ID NEFSC-MACK5YCHATT-1960-2019-SISIMP2021-2			
Area Gulf of Maine / Cape Hatteras			
Management Authority National Marine Fisheries Service, US national manager			
Assessor Northeast Fisheries Science Center			
Asmts in RAM	2016, 2019		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2019	181,000	
Fmsy	Fmsy-1/yr	2019	0.22	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2019	90,500	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2019	42,900	-	-
TN	-	-	-	-	-
R	R-E00	2019	1.36×10^{8}	-	1
F	F-1/yr	2019	0.458	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	16,300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.237		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	2.082		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





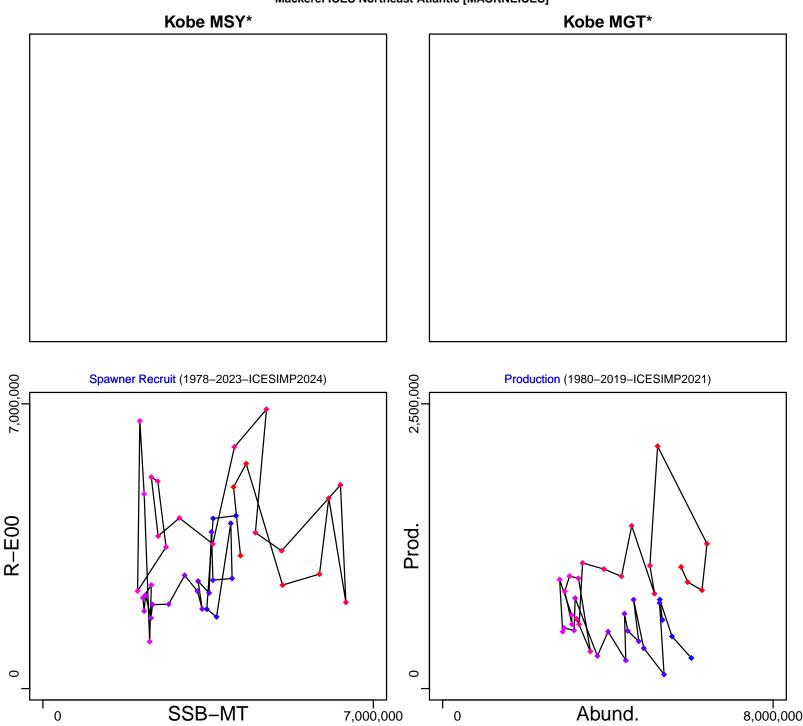


Mackerel ICES Northeast Atlantic [MACKNEICES]

Metadata			
Scientific Name	Scomber scombrus		
Current Assess ID WGWIDE-MACKNEICES-1978-2023-ICESIMP2024			
Area ICES Northeast Atlantic			
Management Authority International Council for the Exploration of the Sea			
Assessor Working Group on Widely Distributed Stocks			
Asmts in RAM	2007, 2023, 2013, 2014, 2015, 2016, 2017, 2019, 2020, 2021		

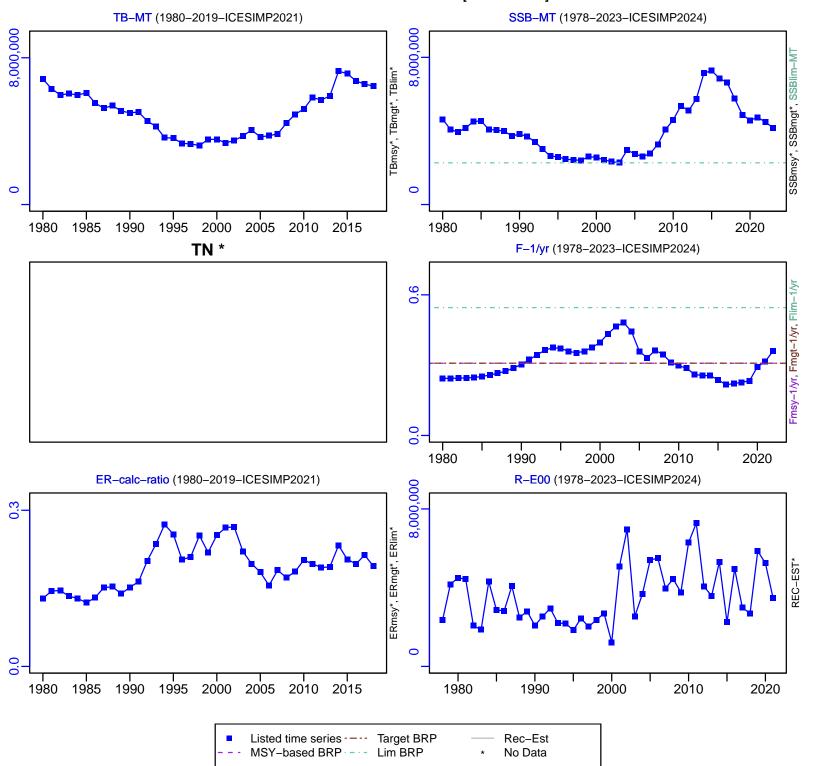
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2023	0.26	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	Fmgt-1/yr	2023	0.26	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2007	0.15	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2023	2×10^{6}	
Flim	Flim-1/yr	2023	0.46	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	5,684,879	-	-
SSB	SSB-MT	2023	3,681,064	-	-
TN	-	-	-	-	-
R	R-E00	2023	3,269,823	-	2
F	F-1/yr	2023	0.304	-	4 to 8
ER	ER-calc-ratio	2019	0.181	-	-
TC	TC-MT	2023	1,046,720		
TL	TL-MT	2016	1,200,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	1.169		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	1.169		
ER/ERmgt	-	-	-		

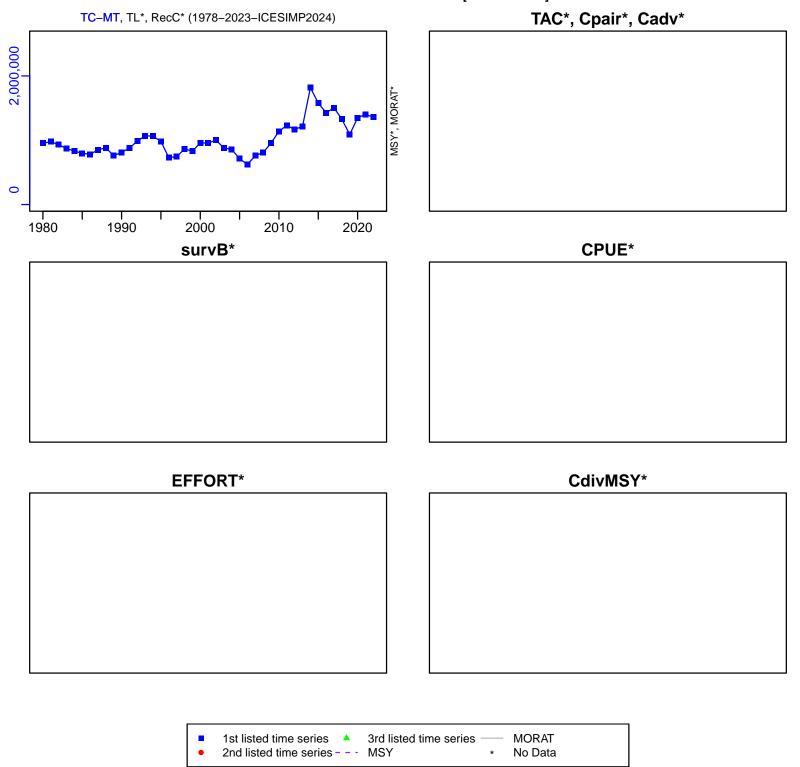


Start Year • End Year • No Data

Mackerel ICES Northeast Atlantic [MACKNEICES]



Mackerel ICES Northeast Atlantic [MACKNEICES]

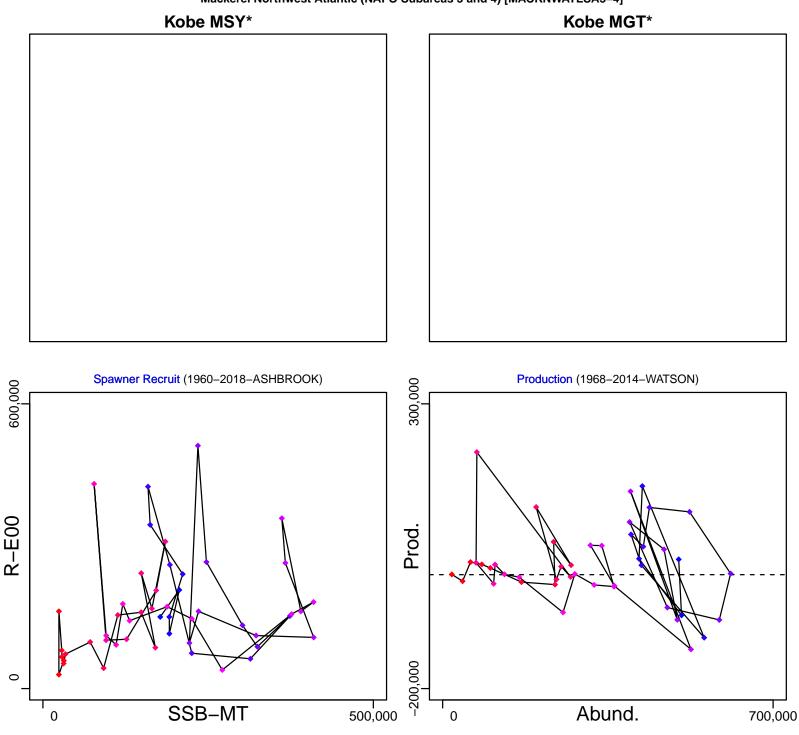


Mackerel Northwest Atlantic (NAFO Subareas 3 and 4) [MACKNWATLSA3-4]

Metadata			
Scientific Name	Scomber scombrus		
Current Assess ID DFO-QUE-MACKNWATLSA3-4-1960-2018-ASHBROOK			
Area Northwest Atlantic (NAFO Subareas 3 and 4)			
Management Authority Department of Fisheries and Oceans, Canada national manager			
Assessor Department of Fisheries and Oceans - Quebec Region			
Asmts in RAM	2014, 2018, 2011		

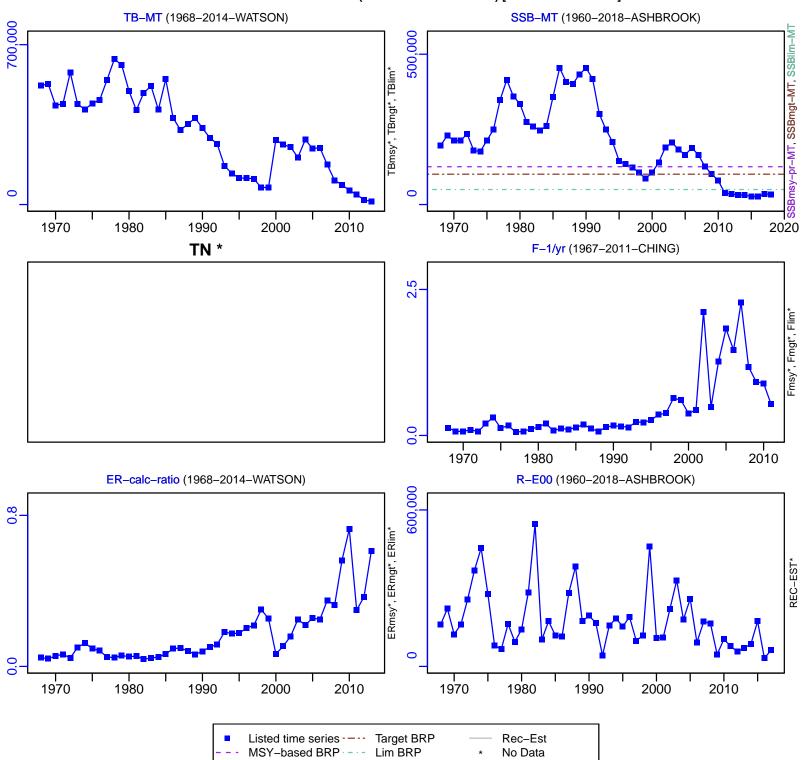
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2018	113,292
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	90,943
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	45,041
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	13,400	-	-
SSB	SSB-MT	2018	30,468	-	10-May
TN	-	-	-	-	-
R	R-E00	2018	58,824	-	1
F	F-1/yr	2011	0.468	-	8+
ER	ER-calc-ratio	2014	0.554	-	-
TC	-	-	-		
TL	TL-MT	2018	10,499		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2018	0.269		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.335		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

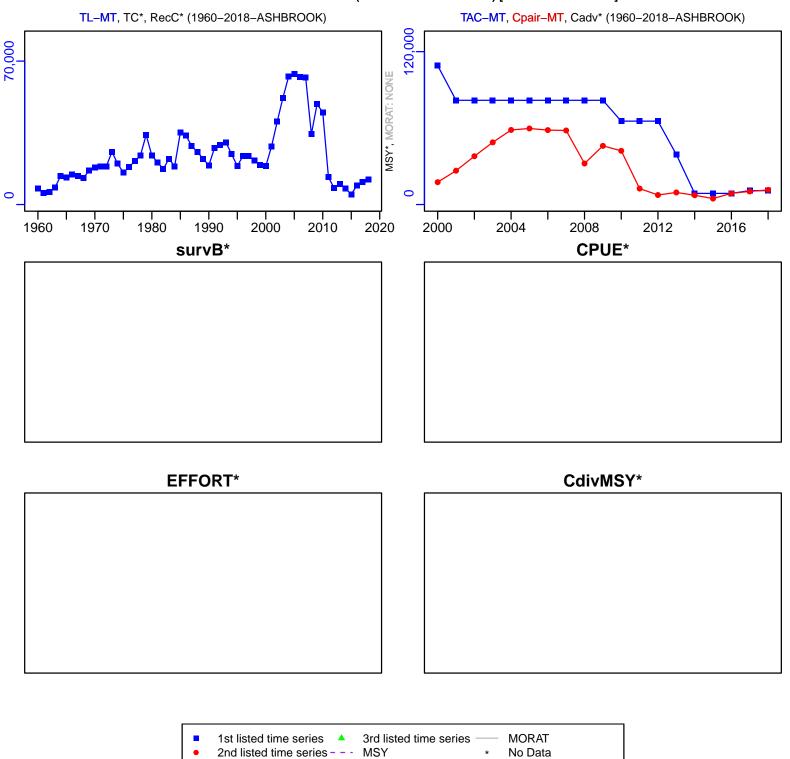


Start Year • End Year • No Data

Mackerel Northwest Atlantic (NAFO Subareas 3 and 4) [MACKNWATLSA3-4]



Mackerel Northwest Atlantic (NAFO Subareas 3 and 4) [MACKNWATLSA3-4]

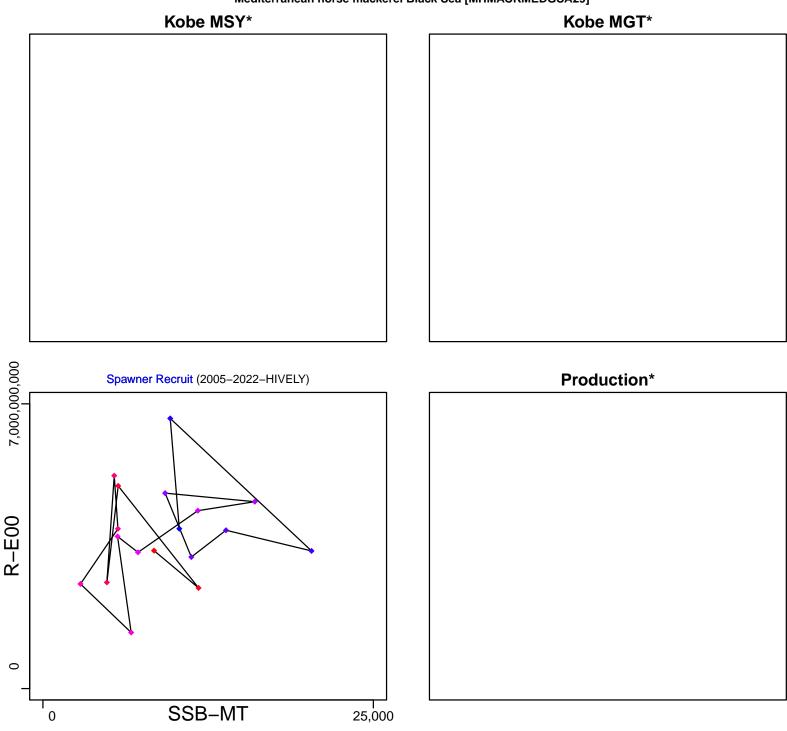


Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]

	Metadata
Scientific Name	Trachurus mediterraneus
Current Assess ID	SGSABS-MHMACKMEDGSA29-2005-2022-HIVELY
Area	Black Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Subregional Group on Stock Assessment for the Black Sea
Asmts in RAM	2021, 2022, 2014, 2016

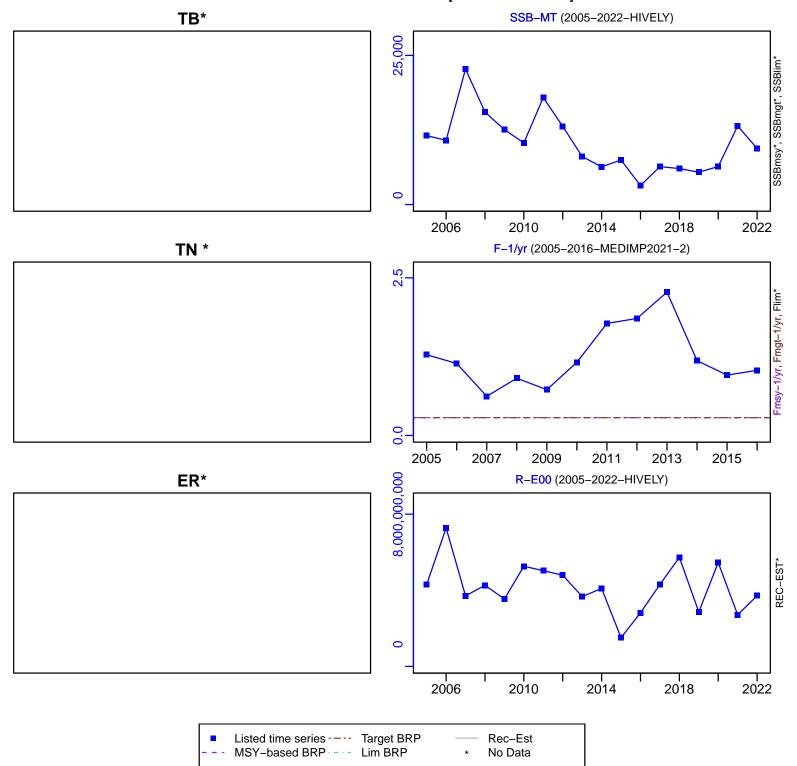
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2016	0.267	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	Fmgt-1/yr	2016	0.267	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Tir	ne Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2022	8407	-	-
TN	-	-	-	-	-
R	R-E00	2022	3,391,341,000	-	-
F	F-1/yr	2022	0.996	-	-
ER	-	-	-	-	-
TC	TC-MT	2022	11,439		
TL	TL-MT	2021	21,538		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	3.663		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	3.663		
ER/ERmgt	-	-	-		

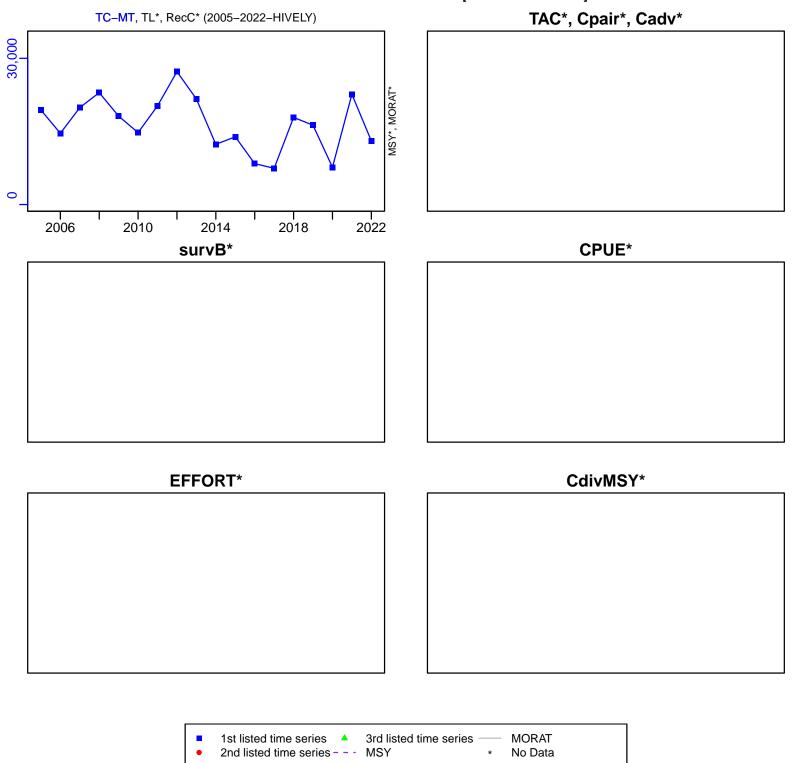


Start Year • End Year * No Data

Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]



Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]



	Metadata
Scientific Name	Decapterus spp
Current Assess ID	FAO-SPNWA-SCADSPPCWAGNB-LBR-1994-2017-ASHBROOK
Area	Central West Africa Guinea Bissau-Liberia
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa
Asmts in RAM	2017

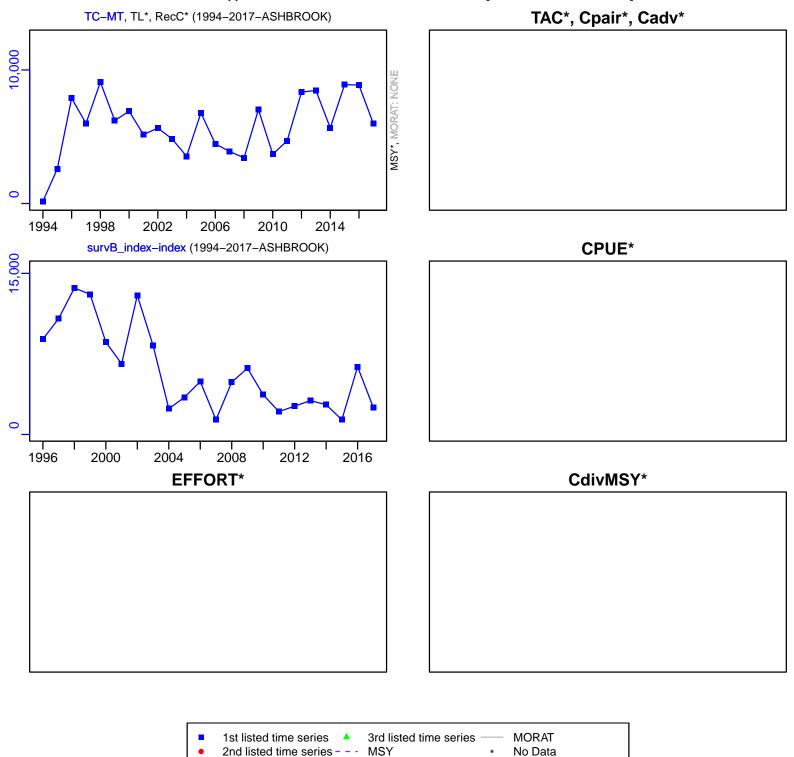
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	4796		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Spannor Restain	1 1044511611
opannor reorait	
opannor recordic	
opannor nooran	
opannor nooran	
opannor nooran	

◆ Start Year ◆ End Year * No Data

TB*	SSB*
TN *	F *
ER*	Recruits*
ER	Reciuits
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	m BRP * No Data



	Metadata
Scientific Name	Scomberomorus niphonius
Current Assess ID	FAFRFJ-SPANMACKECS-1984-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

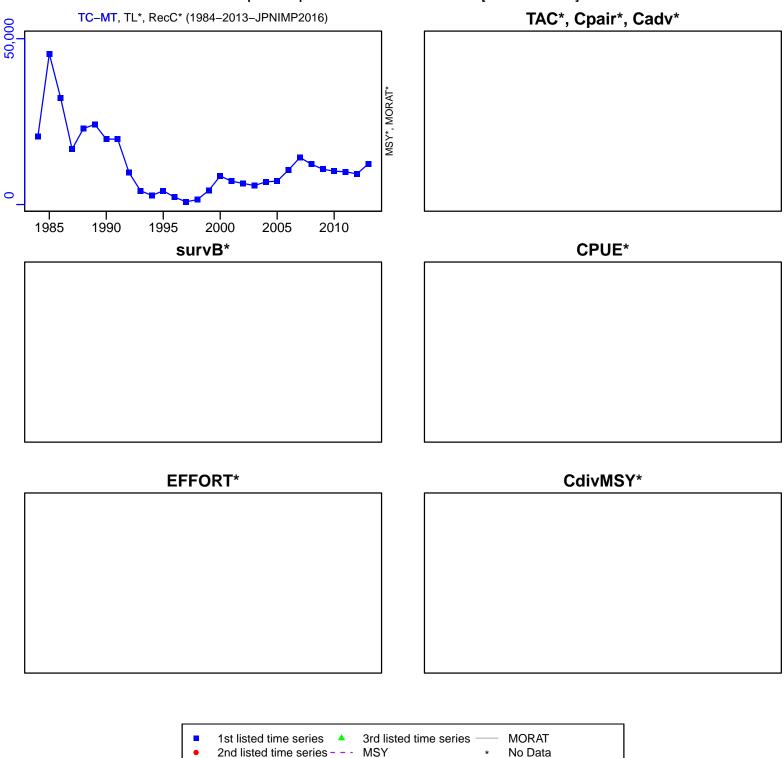
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	12,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

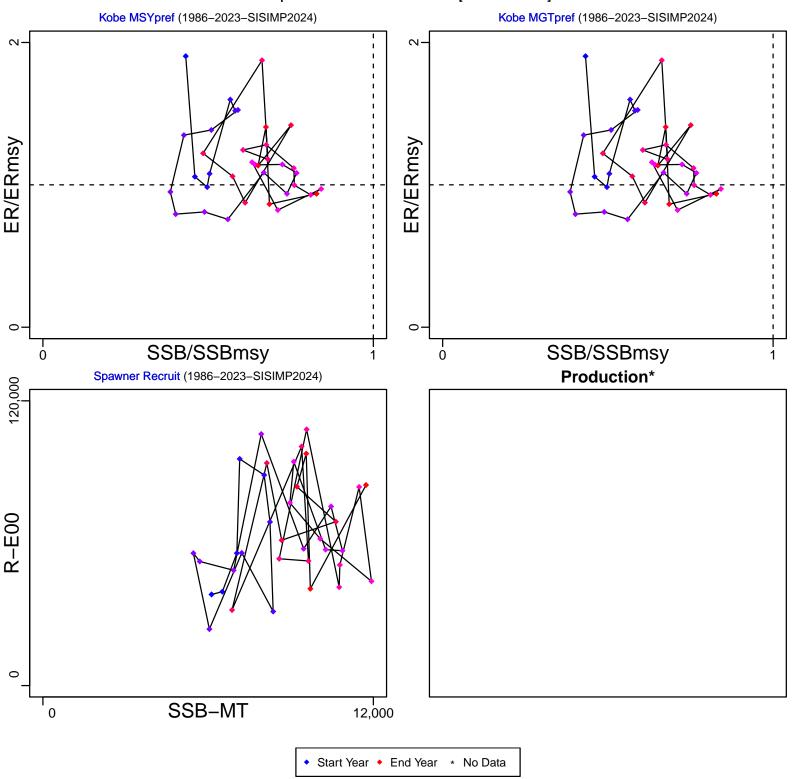
TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data

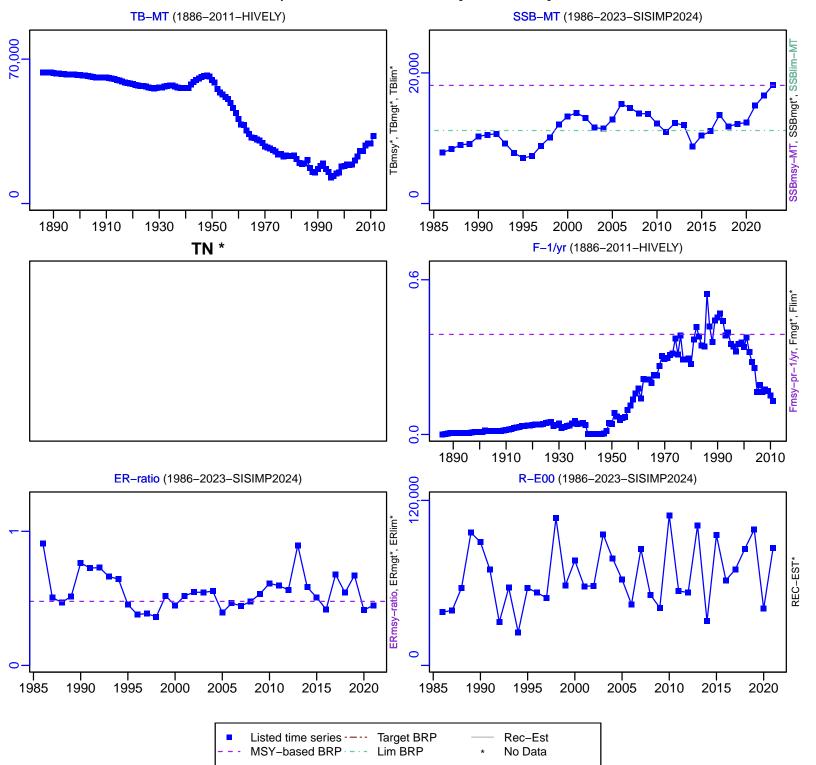


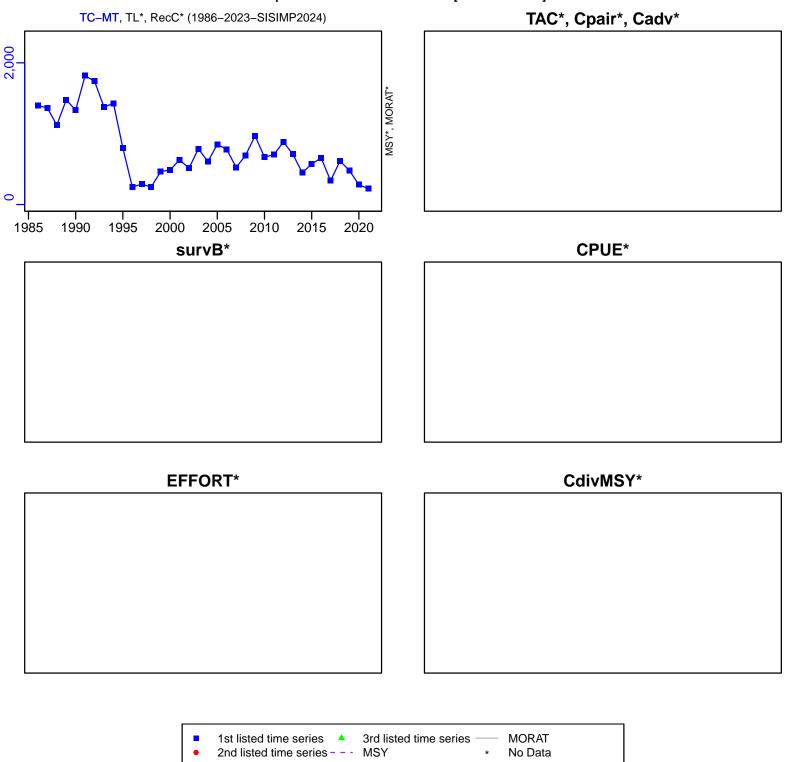
Metadata		
Scientific Name	Scomberomorus maculatus	
Current Assess ID SEFSC-SPANMACKGM-1986-2023-SISIMP2024		
Area	Gulf of Mexico	
Management Authority	National Marine Fisheries Service, US national management	
Assessor Southeast Fisheries Science Center		
Asmts in RAM	2011, 2023	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2023	14,168	
Fmsy	Fmsy-pr-1/yr	2011	0.36	
ERmsy	ERmsy-ratio	2023	0.384	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-		
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2023	8754	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	28,400	-	-
SSB	SSB-MT	2023	14,238	-	-
TN	-	-	-	-	-
R	R-E00	2023	84,516	-	0
F	F-1/yr	2011	0.12	-	-
ER	ER-ratio	2023	0.36	-	-
TC	TC-MT	2023	190		
TL	TL-MT	2011	567		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2023	1.005		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2011	0.333		
ER/ERmsy	ER-ratio/ERmsy-ratio	2023	0.938		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



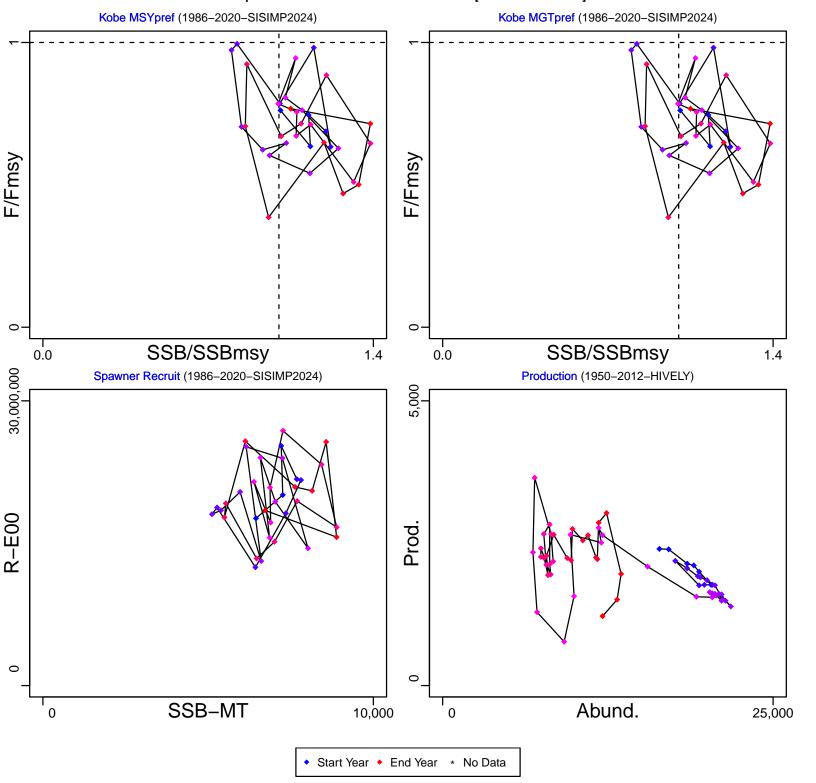


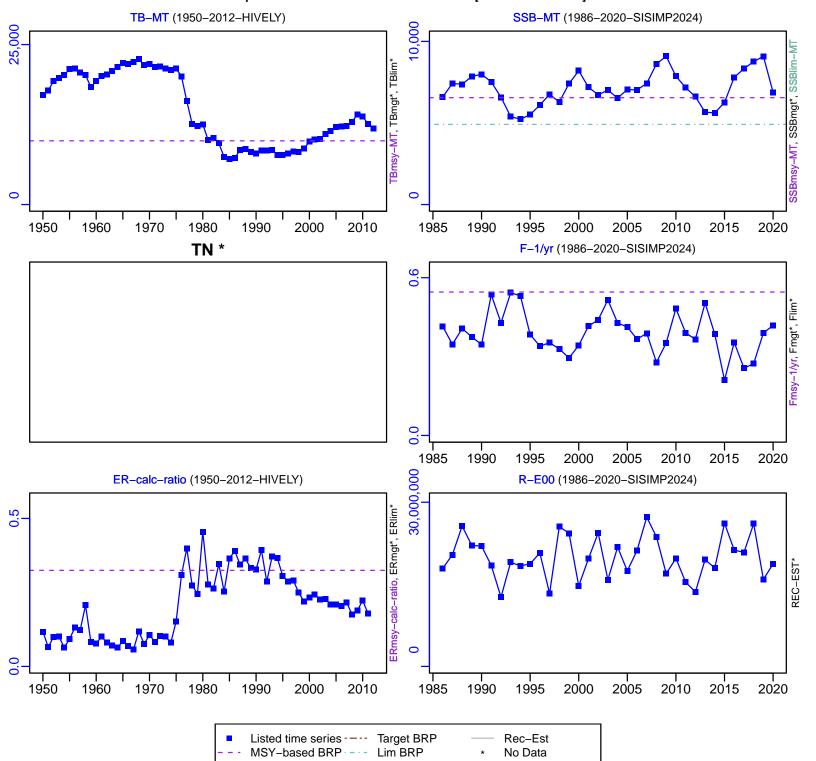


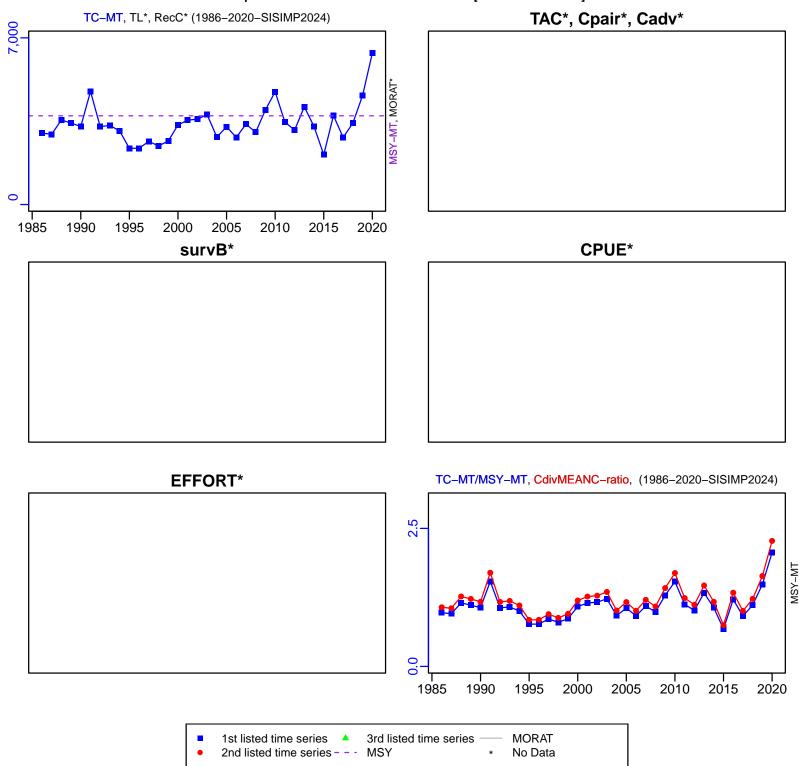
Metadata			
Scientific Name	Scomberomorus maculatus		
Current Assess ID	SEFSC-SPANMACKSATLC-1986-2020-SISIMP2024		
Area Southern Atlantic coast			
Management Authority National Marine Fisheries Service, US national managemen			
Assessor Southeast Fisheries Science Center			
Asmts in RAM	2012, 2020		

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2012	9548
SSBmsy	SSBmsy-MT	2020	6406
Fmsy	Fmsy-1/yr	2020	0.516
ERmsy	ERmsy-calc-ratio	2012	0.288
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2012	3266
Fmgt	Fmgt-1/yr	2012	0.517
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2020	3724
М	M-1/yr	2012	0.35
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	4804
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	11,400	-	-
SSB	SSB-MT	2020	6725	-	-
TN	-	-	-	-	-
R	R-E00	2020	18,460,130	-	0
F	F-1/yr	2020	0.396	-	-
ER	ER-calc-ratio	2012	0.159	-	-
TC	TC-MT	2020	6360		
TL	TL-MT	2012	1920		
TB/TBmsy	TB-MT/TBmsy-MT	2012	1.194		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.05		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.767		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2012	0.551		
TB/TBmgt		-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.488		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	0.698		
ER/ERmgt	-	-	-		



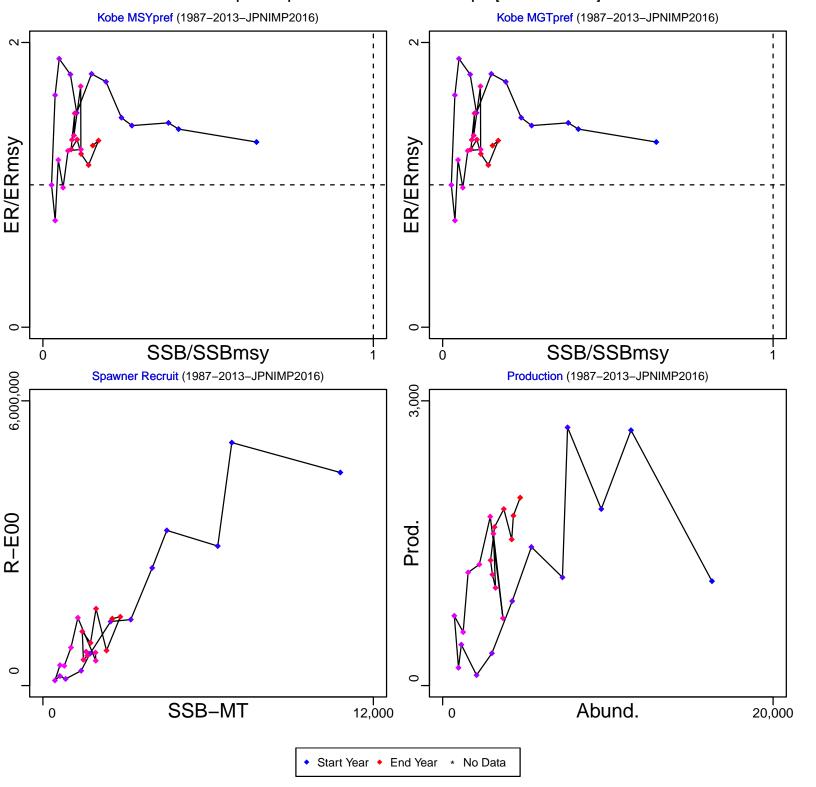


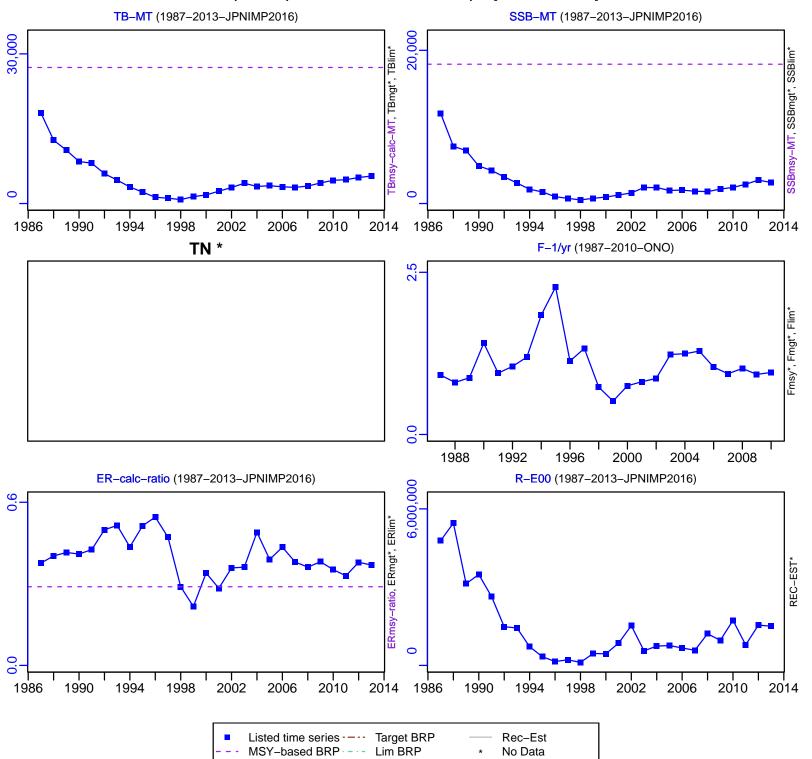


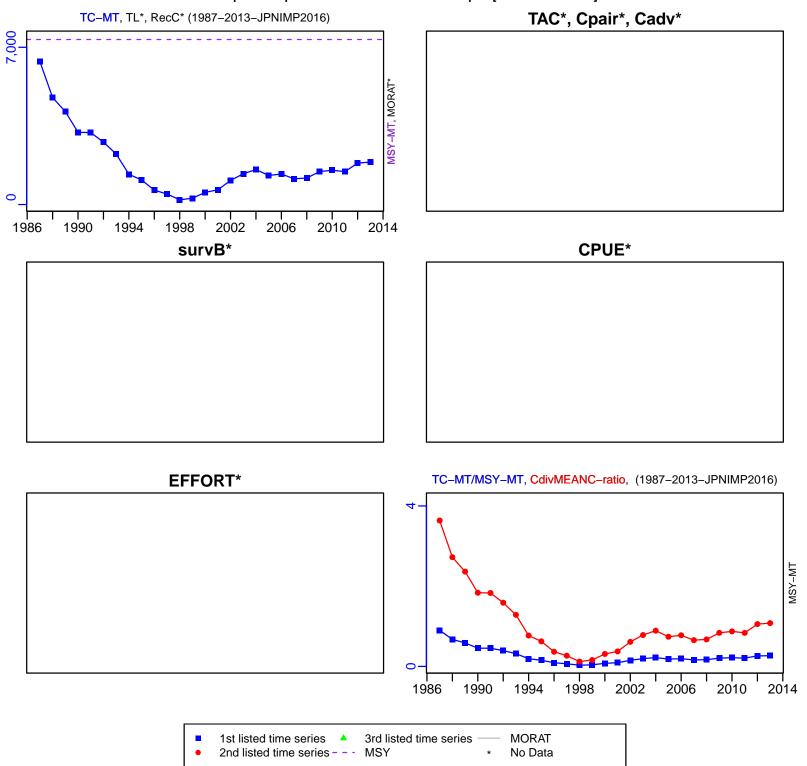
Metadata			
Scientific Name	Scomberomorus niphonius		
Current Assess ID	FAFRFJ-SPANMACKSETO-1987-2013-JPNIMP2016		
Area	Inland Sea of Japan		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2010, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	24,474	
SSBmsy	SSBmsy-MT	2013	16,707	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.283	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	6926	
М	M-1/yr	2013	0.3	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	3979	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	4930	-	0
SSB	SSB-MT	2013	2520	Both	1
TN	-	-	-	-	-
R	R-E00	2013	1,410,000	-	0
F	F-1/yr	2010	0.93	-	0 to 5
ER	ER-calc-ratio	2013	0.361	-	-
TC	TC-MT	2013	1780		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.201		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.151		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.276		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







Metadata			
Scientific Name	Pseudocaranx dentex		
Current Assess ID	NZMFishINSHOREWG-TREVALLYTRE7-1944-2014-LANGLEY		
Area	Area New Zealand Areas TRE 7		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Inshore Working Group		
Asmts in RAM	2005, 2014		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2005	26,990
SSBmsy	SSBmsy-MT	2014	8936
Fmsy	Fmsy-1/yr	2005	0.113
ERmsy	ERmsy-ratio	2005	0.08
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	8936
Fmgt	Fmgt-1/yr	2014	0.088
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2014	22,339
MSY	MSY-MT	2014	1818
М	M-1/yr	2014	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2005	28,200	-	1
SSB	SSB-MT	2014	11,500	Females	4 to 40+
TN	-	-	-	-	-
R	R-E00	2014	3,530,000	Both	0
F	F-1/yr	2005	0.094	-	-
ER	ER-ratio	2005	0.087	-	-
TC	TC-MT	2014	1530		
TL	TL-MT	2014	1440		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	1.045		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.287		
F/Fmsy	F-1/yr/Fmsy-1/yr	2005	0.83		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	1.082		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.287		
F/Fmgt	FdivFmgt-dimensionless	2014	0.678		
ER/ERmgt	-	-	-		

