# tuna-billfish Stocks

v4.66 (Nov-03-2024)

### Not present Present Preferred

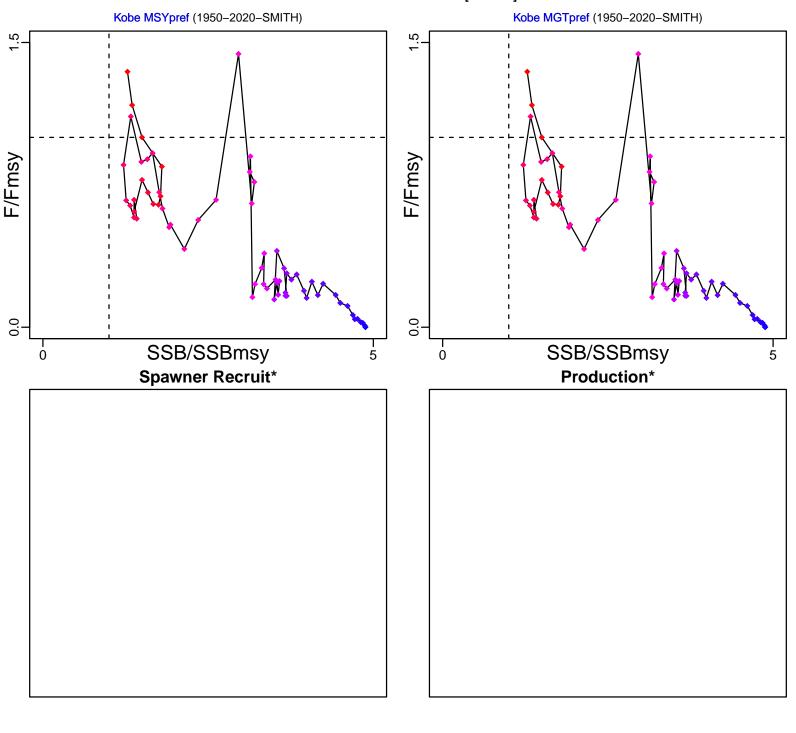
Stock  1. ALBAIO [Albacore tuna Indian Ocean]	B/Bmsy	Time Ser		
1 ALRAIO [Albacore tuna Indian Occan]		U/Umsy	B/Bmgt	U/Umgt
1. ALDAIO [Albacole tulia iliulati Oceali]	TB SSB	ER F	TB SSB	ER F
ALBAMED [Albacore tuna Mediterranean Sea]	TB SSB	ER F	TB SSB	ER F
3. ALBANATL [Albacore tuna Northern Atlantic]	TB SSB	ER F	TB SSB	ER F
ALBANPAC [Albacore tuna North Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
5. ALBASATL [Albacore tuna South Atlantic]	TB SSB	ER F	TB SSB	ER F
ALBASPAC [Albacore tuna South Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
7. ATBTUNAEATL [Atlantic bluefin tuna Eastern Atlantic]	TB SSB	ER F	TB SSB	ER F
8. ATBTUNAWATL [Atlantic bluefin tuna Western Atlantic]	TB SSB	ER F	TB SSB	ER F
BIGEYEATL [Bigeye tuna Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F
10. BIGEYECWPAC [Bigeye tuna Central Western Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
11. BIGEYEEPAC [Bigeye tuna Eastern Pacific]	TB SSB	ER F	TB SSB	ER F
12. BIGEYEIO [Bigeye tuna Indian Ocean]	TB SSB	ER F	TB SSB	ER F
13. BLKMARLINIO [Black marlin Indian Ocean]	TB SSB	ER F	TB SSB	ER F
14. BMARLINATL [Blue marlin Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F
15. BMARLINIO [Indo Pacific blue marlin Indian Ocean]	TB SSB	ER F	TB SSB	ER F
16. BMARLINPAC [Blue marlin Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
17. IPSAILIO [Indo-Pacific sailfish Indian Ocean]	TB SSB	ER F	TB SSB	ER F
18. PACBTUNA [Pacific bluefin tuna Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
19. SAILEATL [Sailfish Eastern Atlantic]	TB SSB	ER F	TB SSB	ER F
20. SAILWATL [Sailfish Western Atlantic]	TB SSB	ER F	TB SSB	ER F
21. SBT [Southern bluefin tuna Southern Oceans]	TB SSB	ER F	TB SSB	ER F
22. SKJCIO [Skipjack tuna Indian Ocean]	TB SSB	ER F	TB SSB	ER F
23. SKJCWPAC [Skipjack tuna Central Western Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
24. SKJEATL [Skipjack tuna Eastern Atlantic]	TB SSB	ER F	TB SSB	ER F
25. SKJEPAC [Skipjack tuna Eastern Pacific]	TB SSB	ER F	TB SSB	ER F
26. SKJWATL [Skipjack tuna Western Atlantic]	TB SSB	ER F	TB SSB	ER F
27. STMARLINIO [Striped marlin Indian Ocean]	TB SSB	ER F	TB SSB	ER F
28. STMARLINNEPAC [Striped marlin Northeast Pacific]	TB SSB	ER F	TB SSB	ER F
29. STMARLINSWPO [Striped marlin Western Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
30. STMARLINWCNPAC [Striped marlin Western and Central North Pa-	TB SSB	ER F	TB SSB	ER F
cific]				
31. SWORDEPAC [Swordfish Eastern Pacific]	TB SSB	ER F	TB SSB	ER F
32. SWORDIO [Swordfish Indian Ocean]	TB SSB	ER F	TB SSB	ER F
33. SWORDMED [Swordfish Mediterranean Sea]	TB SSB	ER F	TB SSB	ER F
34. SWORDNATL [Swordfish Northern Atlantic]	TB SSB	ER F	TB SSB	ER F
35. SWORDNPAC [Swordfish North Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
36. SWORDSATL [Swordfish South Atlantic]	TB SSB	ER F	TB SSB	ER F
37. SWORDSPAC [Swordfish South Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
38. WMARLINATL [White marlin Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F

39. YFINATL [Yellowfin tuna Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F
40. YFINCWPAC [Yellowfin tuna Central Western Pacific Ocean]		ER F	TB SSB	ER F
41. YFINEIO [Yellowfin tuna Indian Ocean]	TB SSB	ER F	TB SSB	ER F
42. YFINEPAC [Yellowfin tuna Eastern Pacific]	TB SSB	ER F	TB SSB	ER F

Metadata			
Scientific Name Thunnus alalunga			
Current Assess ID	Current Assess ID IOTC-ALBAIO-1950-2020-SMITH		
Area Indian Ocean			
Management Authority Indian Ocean Tuna Commission			
Assessor	Indian Ocean Tuna Commission		
Asmts in RAM	2014, 2016, 2020		

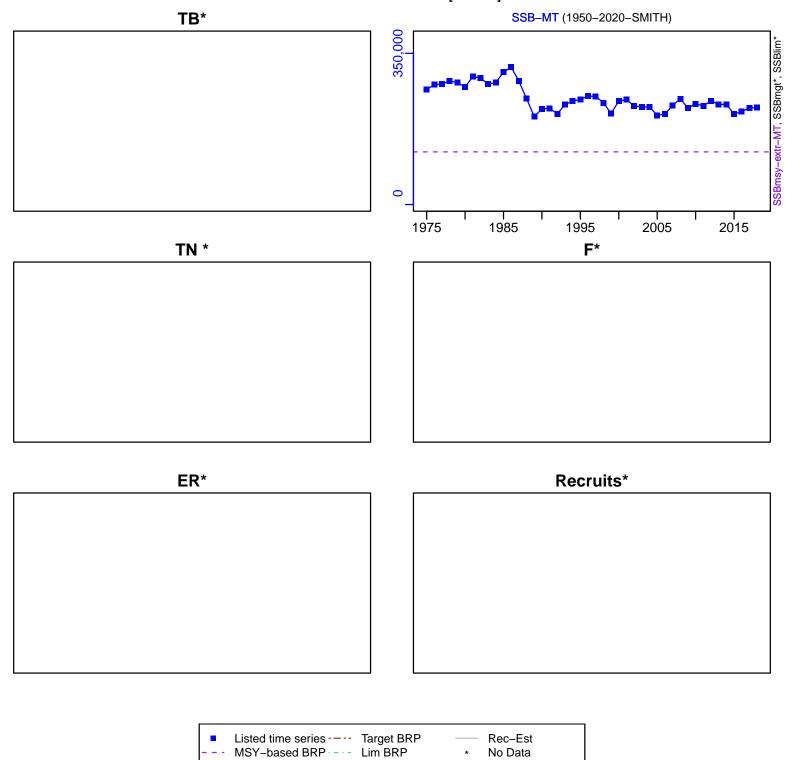
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-extr-MT	2020	110,491		
Fmsy	Fmsy-1/yr	2014	0.06		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2014	187,325		
MSY	MSY-MT	2020	93,933		
М	M-1/yr	2014	0.3		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

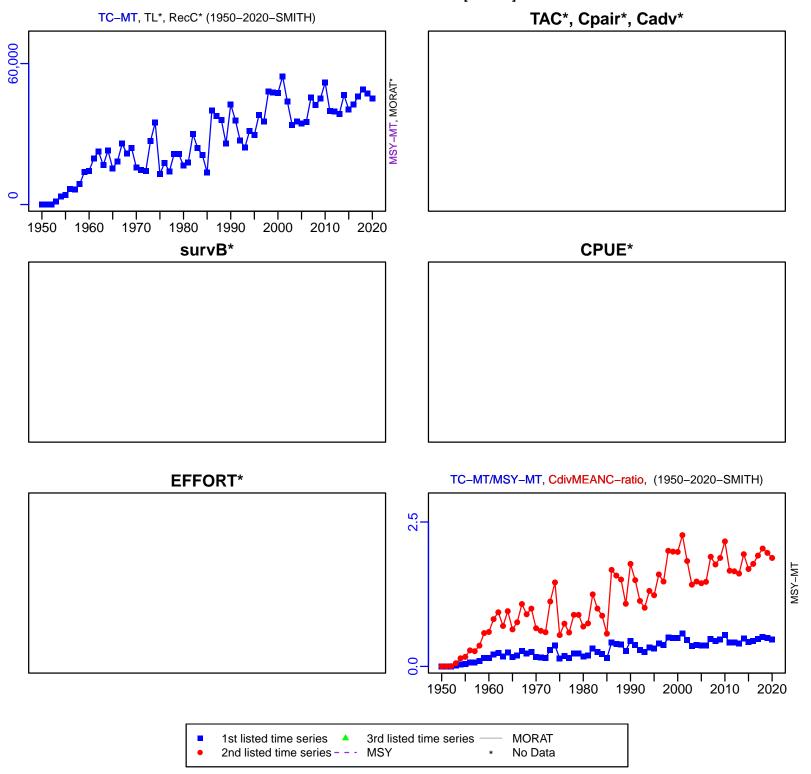
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2020	203,400	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	38,082		
TL	TL-MT	2016	36,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	1.28		
F/Fmsy	FdivFmsy-dimensionless	2020	1.346		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data

4



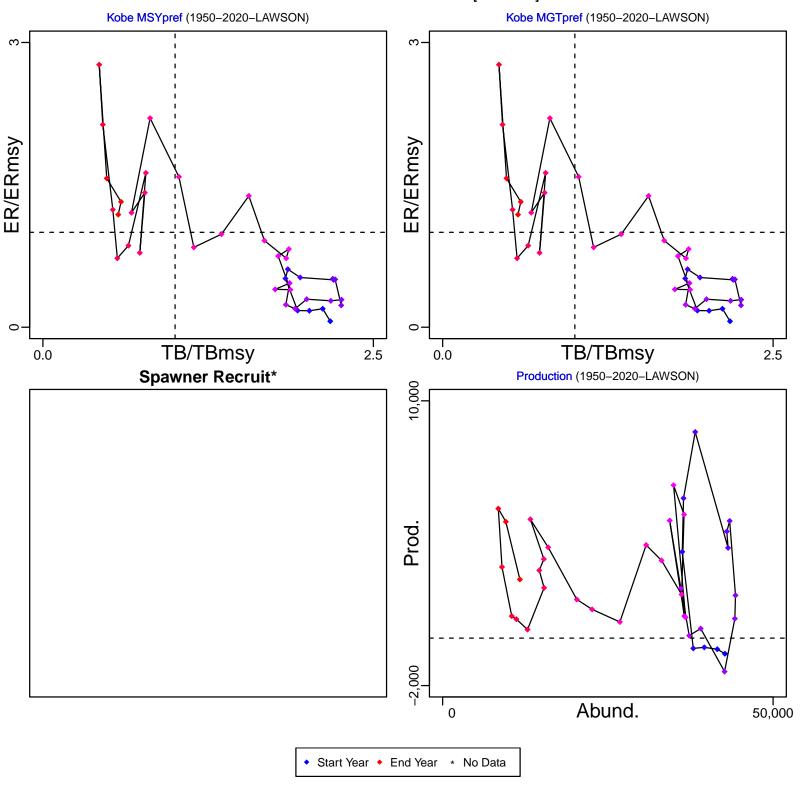


## Albacore tuna Mediterranean Sea [ALBAMED]

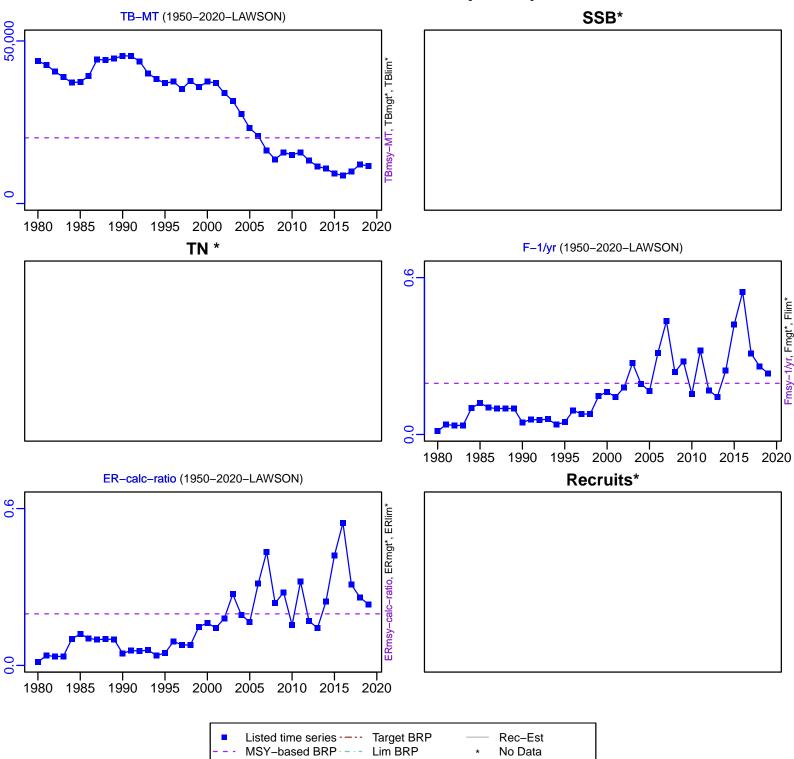
Metadata			
Scientific Name	Thunnus alalunga		
Current Assess ID	ICCAT-ALBAMED-1950-2020-LAWSON		
Area	Mediterranean Sea		
Management Authority	International Commission for the Conservation of Atlantic Tunas		
Assessor	International Commission for the Conservation of Atlantic Tunas		
Asmts in RAM	2020, 2016, 2011		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2020	19,703	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2020	0.184	
ERmsy	ERmsy-calc-ratio	2020	0.185	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	322,000	
SSB0	-	-	-	
MSY	MSY-MT	2020	3654	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

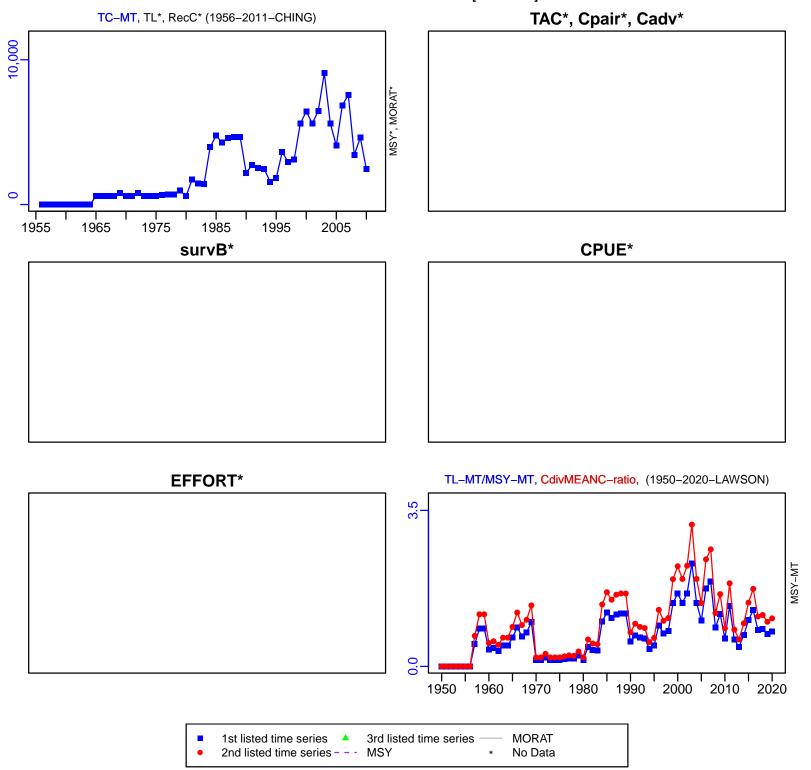
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	11,292	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2020	0.22	-	-
ER	ER-calc-ratio	2020	0.22	-	-
TC	TC-MT	2011	2120		
TL	TL-MT	2020	2675		
TB/TBmsy	TBdivTBmsy-dimensionless	2020	0.57		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2020	1.213		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2020	1.186		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Albacore tuna Mediterranean Sea [ALBAMED]



#### Albacore tuna Mediterranean Sea [ALBAMED]

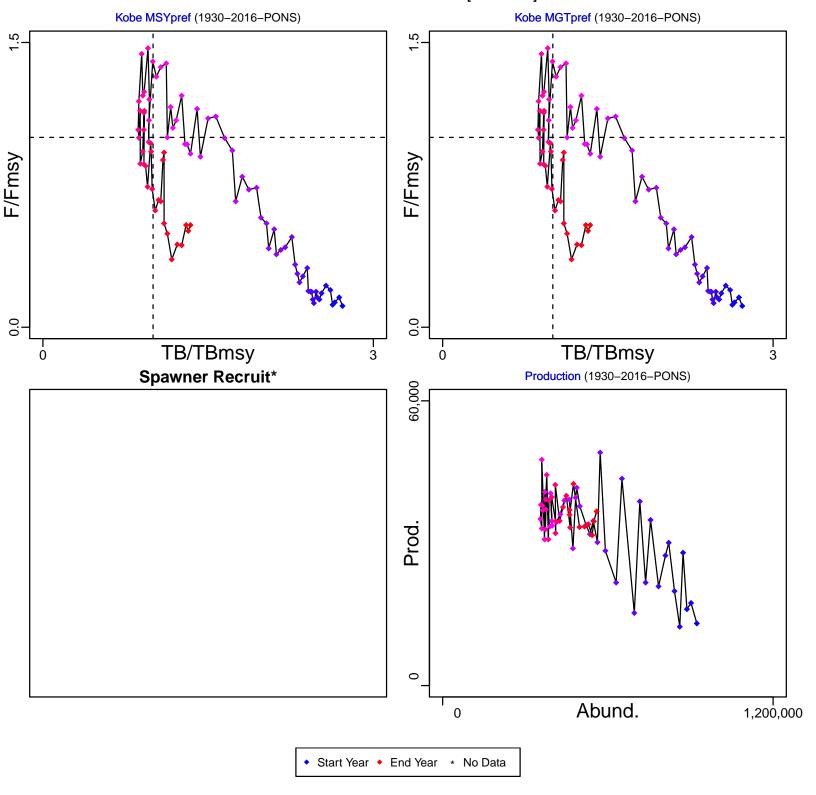


## Albacore tuna Northern Atlantic [ALBANATL]

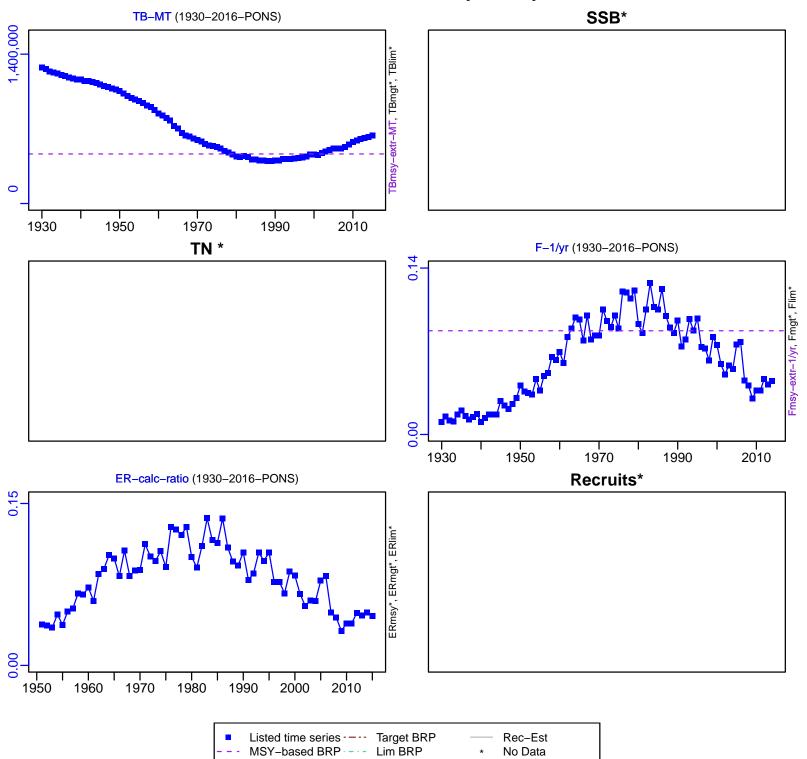
Metadata			
Scientific Name	Thunnus alalunga		
Current Assess ID	ICCAT-ALBANATL-1930-2016-PONS		
Area	Northern Atlantic		
Management Authority	International Commission for the Conservation of Atlantic Tunas		
Assessor	International Commission for the Conservation of Atlantic Tunas		
Asmts in RAM	2011, 2015, 2016		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-extr-MT	2016	416,187		
SSBmsy	-	-	-		
Fmsy	Fmsy-extr-1/yr	2016	0.087		
ERmsy	ERmsy-calc-ratio	2015	0.084		
TBmgt	TBmgt-MT	2015	435,300		
SSBmgt	-	-	-		
Fmgt	Fmgt-1/yr	2015	0.084		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2015	36,650		
М	M-1/yr	2015	0.3		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

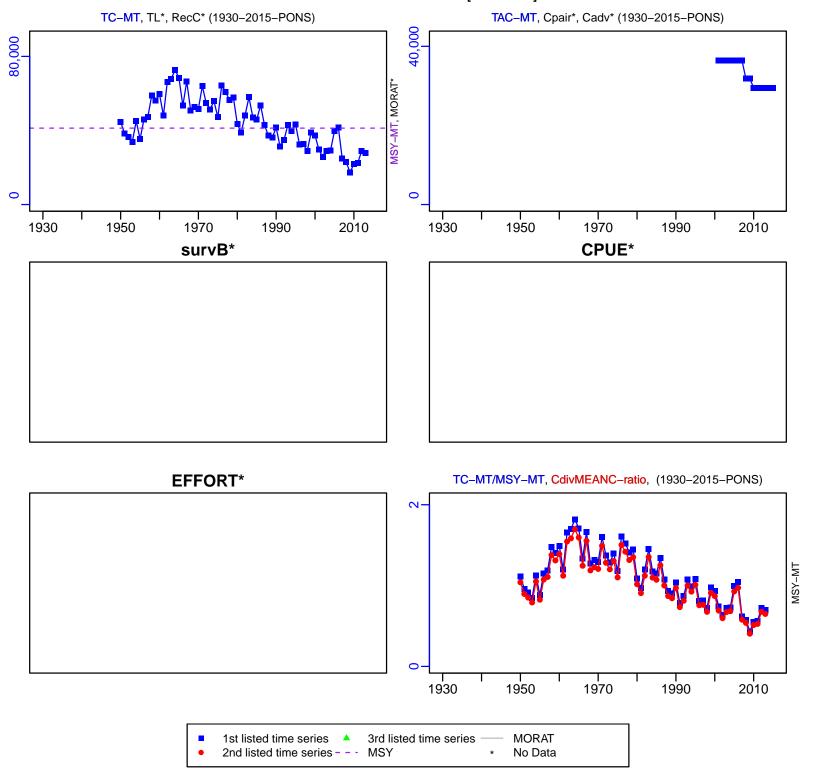
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2016	569,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	0.045	-	-
ER	ER-calc-ratio	2016	0.045	-	-
TC	TC-MT	2015	24,700		
TL	TL-MT	2016	30,100		
TB/TBmsy	TBdivTBmsy-dimensionless	2016	1.34		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	0.763		
F/Fmsy	FdivFmsy-dimensionless	2016	0.538		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	0.731		
TB/TBmgt	TB-MT/TBmgt-MT	2015	0.747		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.75		
ER/ERmgt	-	-	-		



#### Albacore tuna Northern Atlantic [ALBANATL]



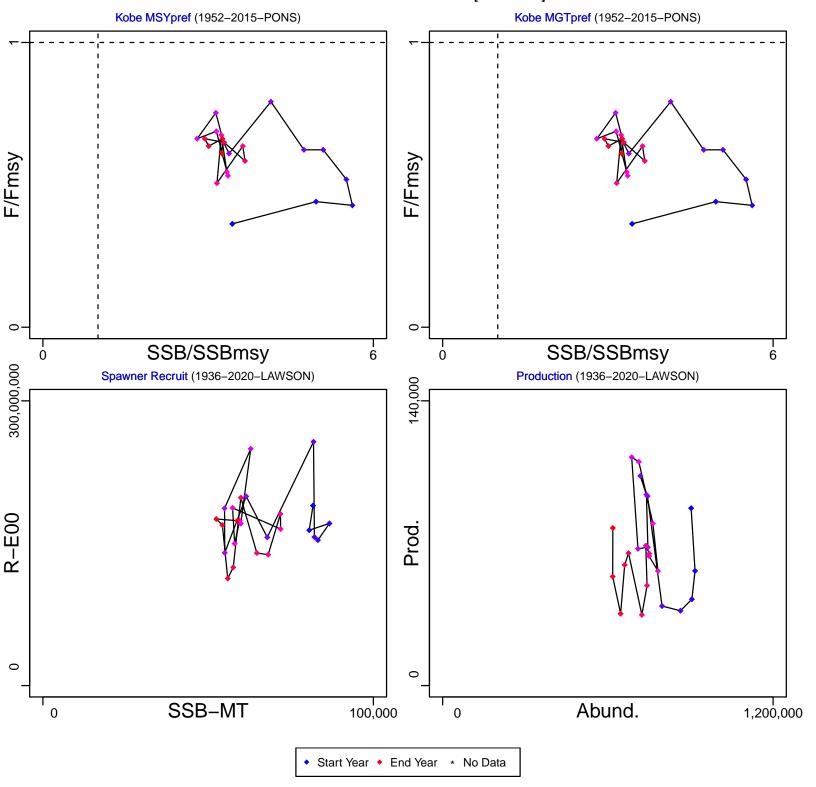
### Albacore tuna Northern Atlantic [ALBANATL]

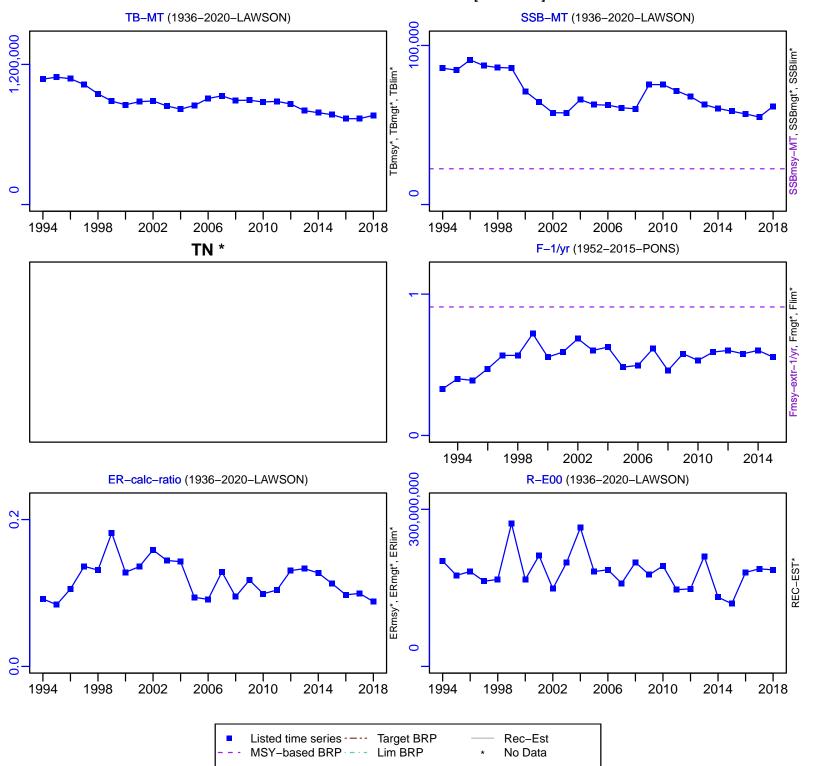


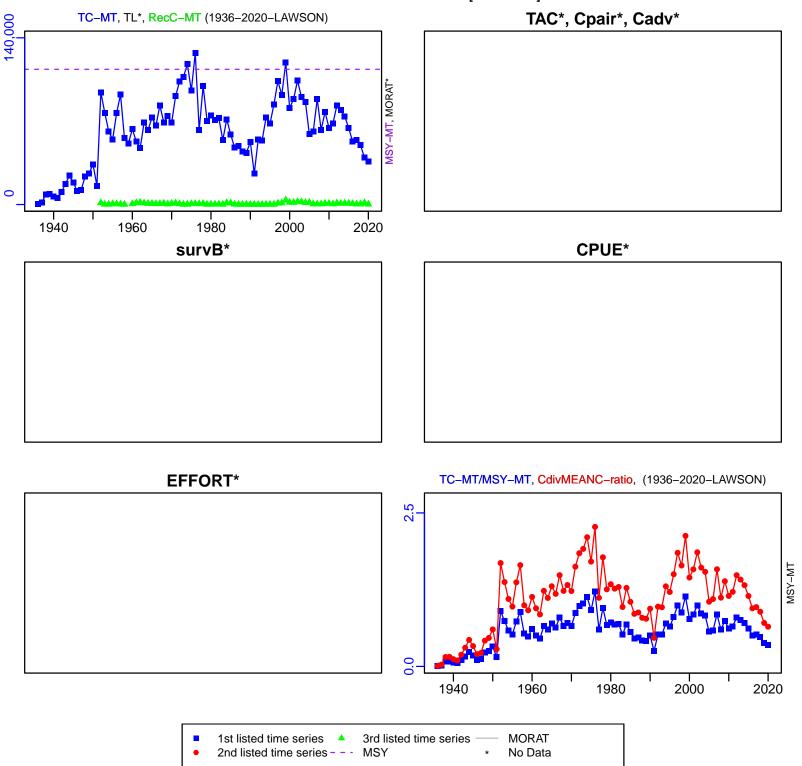
	Metadata			
Scientific Name	Thunnus alalunga			
Current Assess ID	ISC-ALBANPAC-1936-2020-LAWSON			
Area	North Pacific Ocean			
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean			
Assessor	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean			
Asmts in RAM	2020, 2012, 2015			

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2020	21,431	
Fmsy	Fmsy-extr-1/yr	2015	0.771	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2020	152,301	
MSY	MSY-MT	2020	113,522	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	641,391	-	1+
SSB	SSB-MT	2020	58,858	Females	-
TN	-	-	-	-	-
R	R-E00	2020	173,719,000	-	-
F	F-1/yr	2020	0.47	-	-
ER	ER-calc-ratio	2020	0.078	-	-
TC	TC-MT	2020	36,226		
TL	TL-MT	2015	71,600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	2.746		
F/Fmsy	FdivFmsy-dimensionless	2015	0.61		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





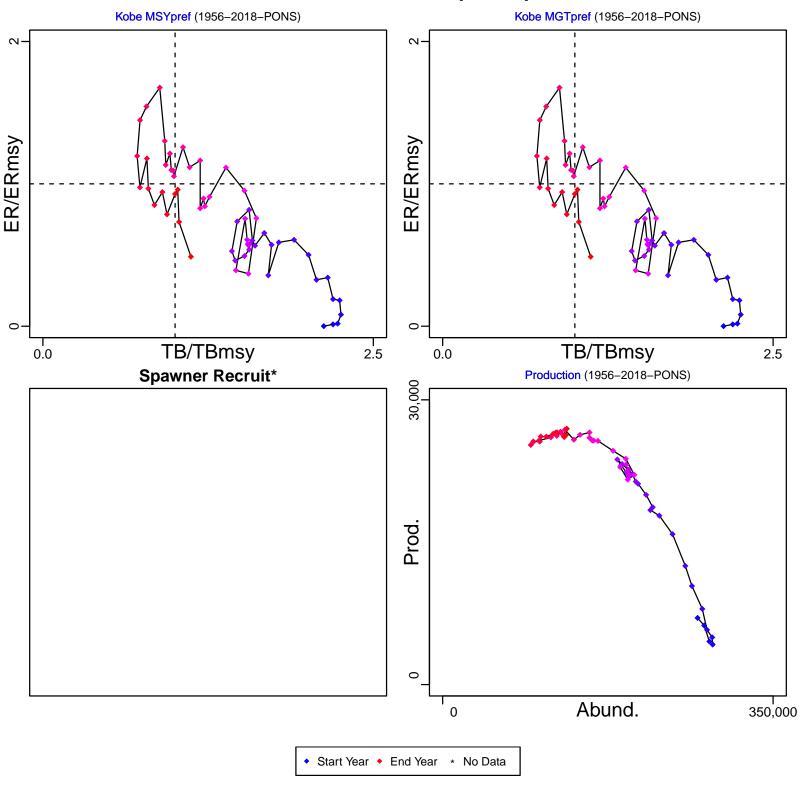


## Albacore tuna South Atlantic [ALBASATL]

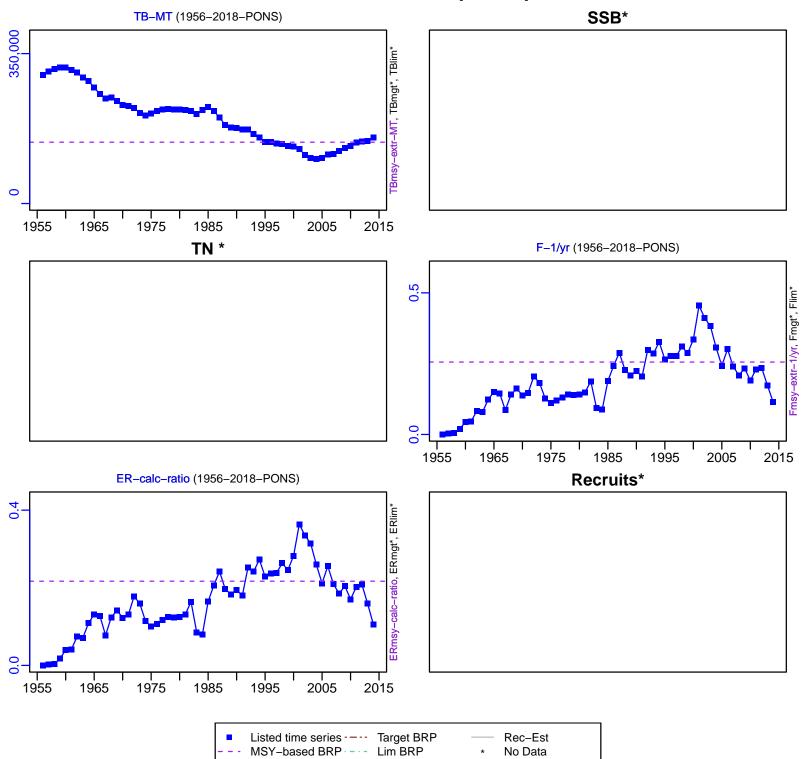
Metadata			
Scientific Name	Thunnus alalunga		
Current Assess ID	ICCAT-ALBASATL-1956-2018-PONS		
Area	South Atlantic		
Management Authority	International Commission for the Conservation of Atlantic Tunas		
Assessor	International Commission for the Conservation of Atlantic Tunas		
Asmts in RAM	2015, 2016, 2018		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2018	128,724	
SSBmsy	-	-	-	
Fmsy	Fmsy-extr-1/yr	2018	0.217	
ERmsy	ERmsy-calc-ratio	2018	0.202	
TBmgt	TBmgt-MT	2015	184,108	
SSBmgt	-	-	-	
Fmgt	Fmgt-1/yr	2015	0.17	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	26,000	
M	M-1/yr	2018	0.3	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

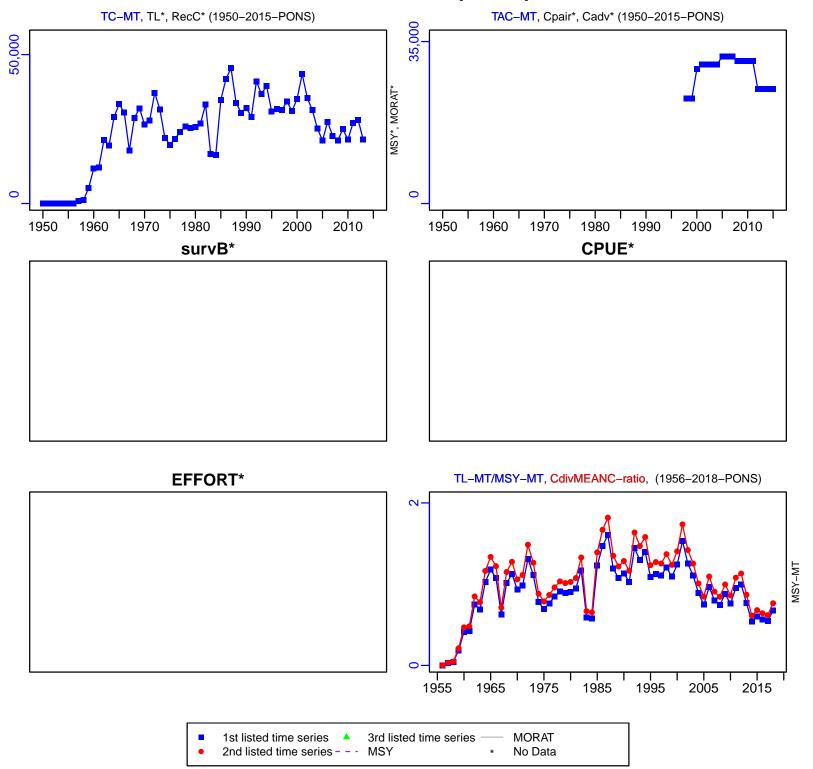
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	139,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2018	0.098	-	-
ER	ER-calc-ratio	2018	0.099	-	-
TC	TC-MT	2015	19,200		
TL	TL-MT	2018	17,098		
TB/TBmsy	TBdivTBmsy-dimensionless	2018	1.12		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2018	0.44		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2018	0.488		
TB/TBmgt	TB-MT/TBmgt-MT	2015	0.809		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	1.129		
ER/ERmgt	-	-	-		



#### Albacore tuna South Atlantic [ALBASATL]



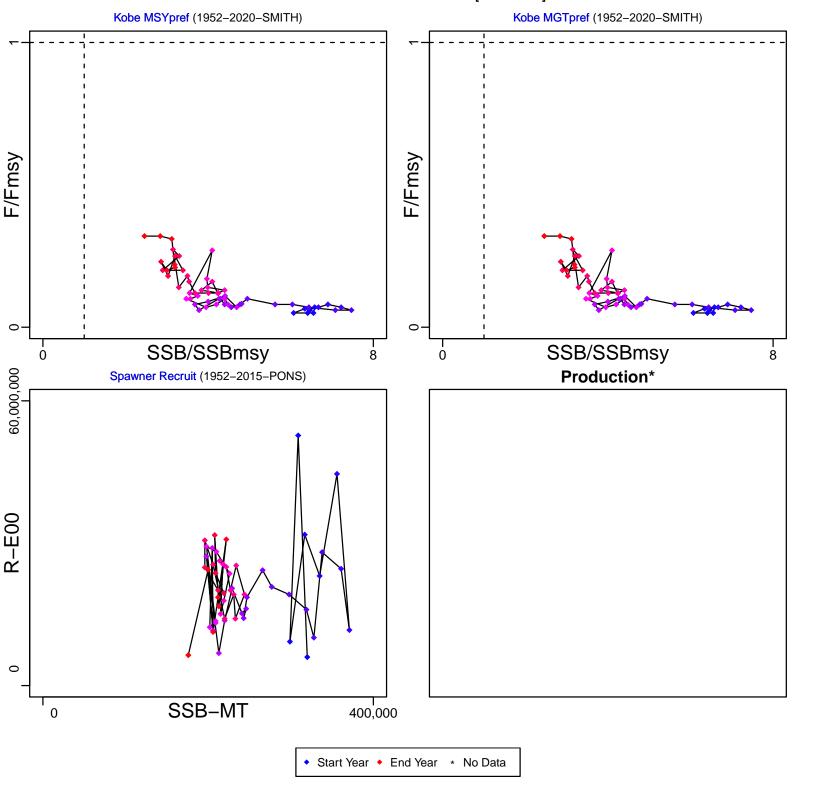
#### Albacore tuna South Atlantic [ALBASATL]

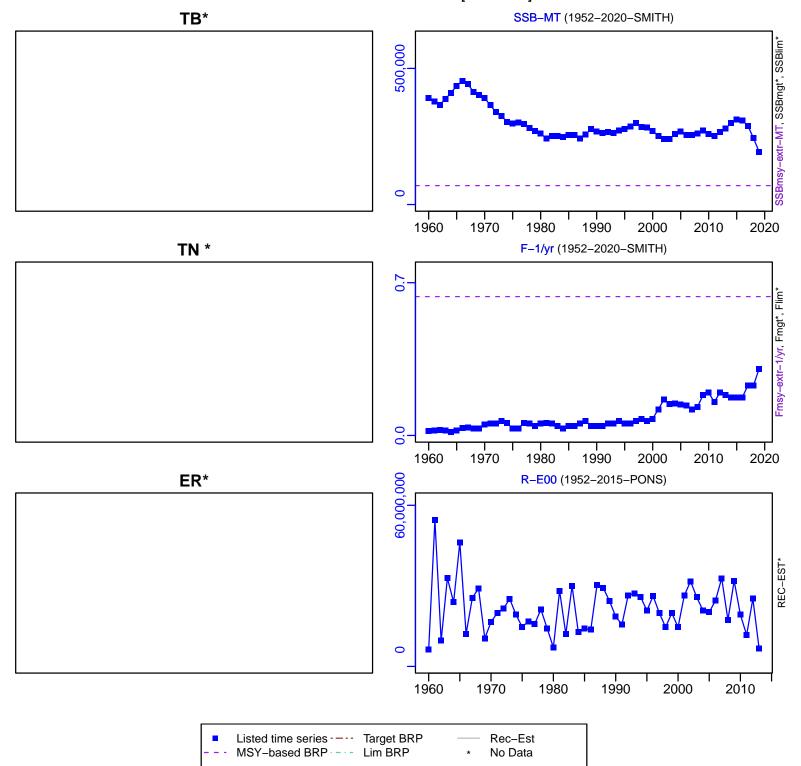


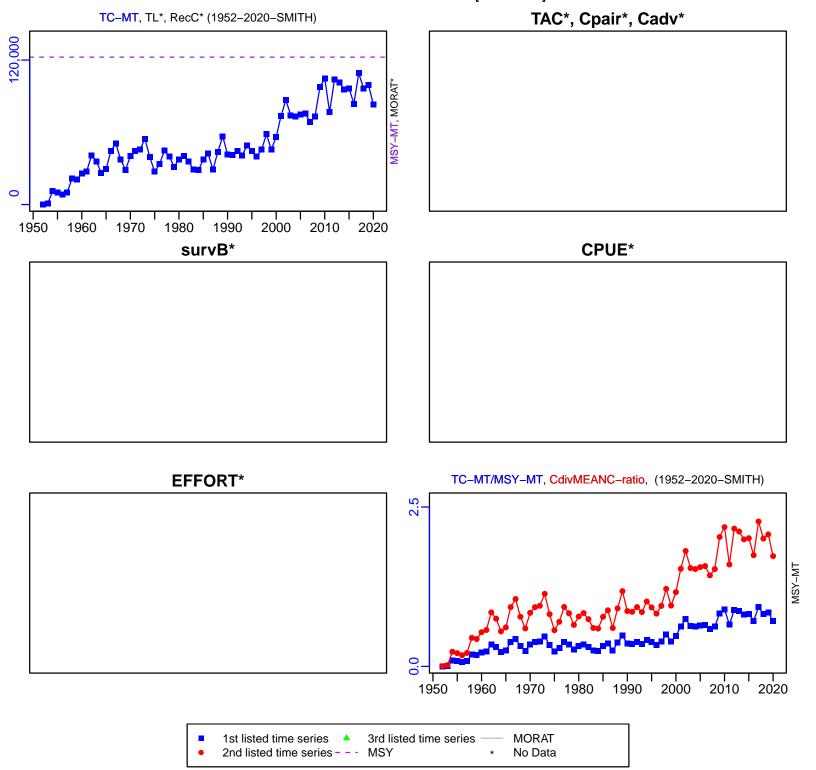
Metadata			
Scientific Name	Thunnus alalunga		
Current Assess ID	SPC-ALBASPAC-1952-2020-SMITH		
Area	South Pacific Ocean		
Management Authority	Western and Central Pacific Fisheries Commission		
Assessor	Secretariat of the Pacific Community		
Asmts in RAM	2015, 2020, 2010		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2010	835,200
SSBmsy	SSBmsy-extr-MT	2020	56,683
Fmsy	Fmsy-extr-1/yr	2020	0.583
ERmsy	ERmsy-calc-ratio	2010	0.119
TBmgt	TBmgt-MT	2010	835,200
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2010	0.16
ERmgt	-	-	-
TB0	TB0-MT	2010	1,629,000
SSB0	SSB0-MT	2010	721,400
MSY	MSY-MT	2020	106,058
M	M-1/yr	2010	0.4
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2020	158,100	-	-
TN	-	-	-	-	-
R	R-E00	2015	6,410,000	-	-
F	F-1/yr	2020	0.28	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	71,949		
TL	TL-MT	2015	68,300		
TB/TBmsy	TBdivTBmsy-dimensionless	2015	1.49		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	2.46		
F/Fmsy	FdivFmsy-dimensionless	2020	0.32		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



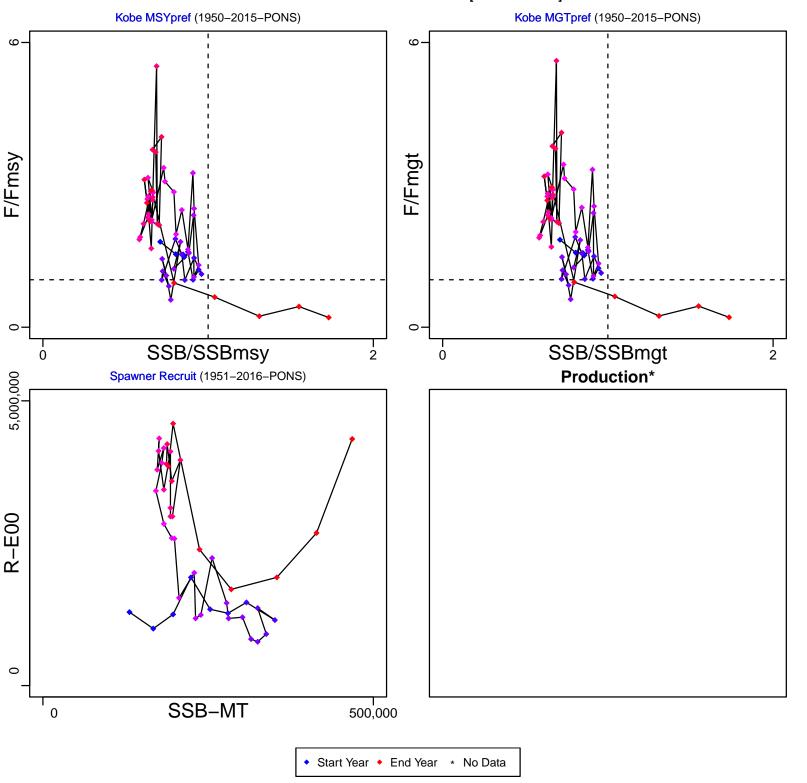


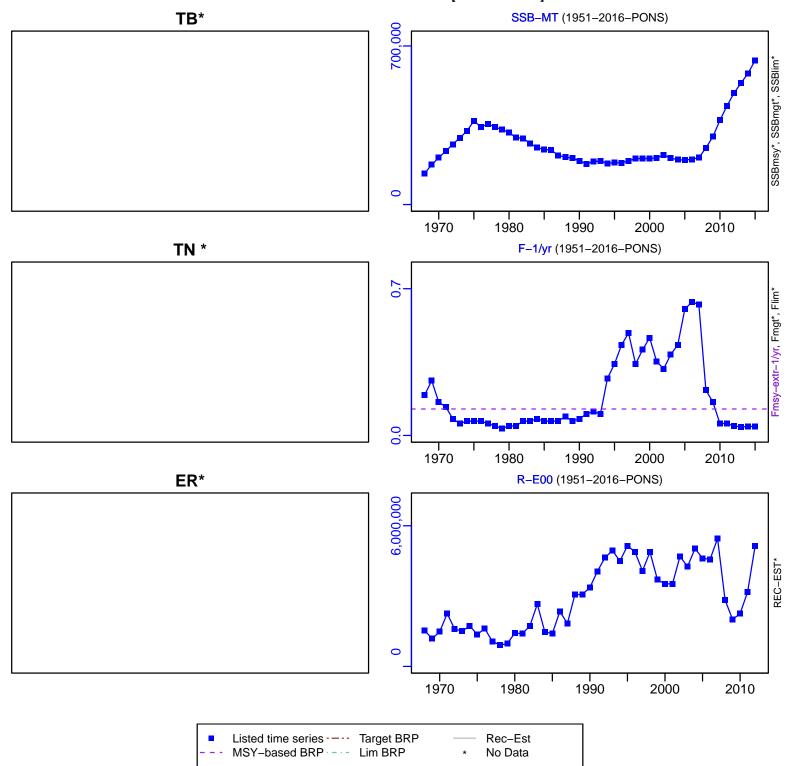


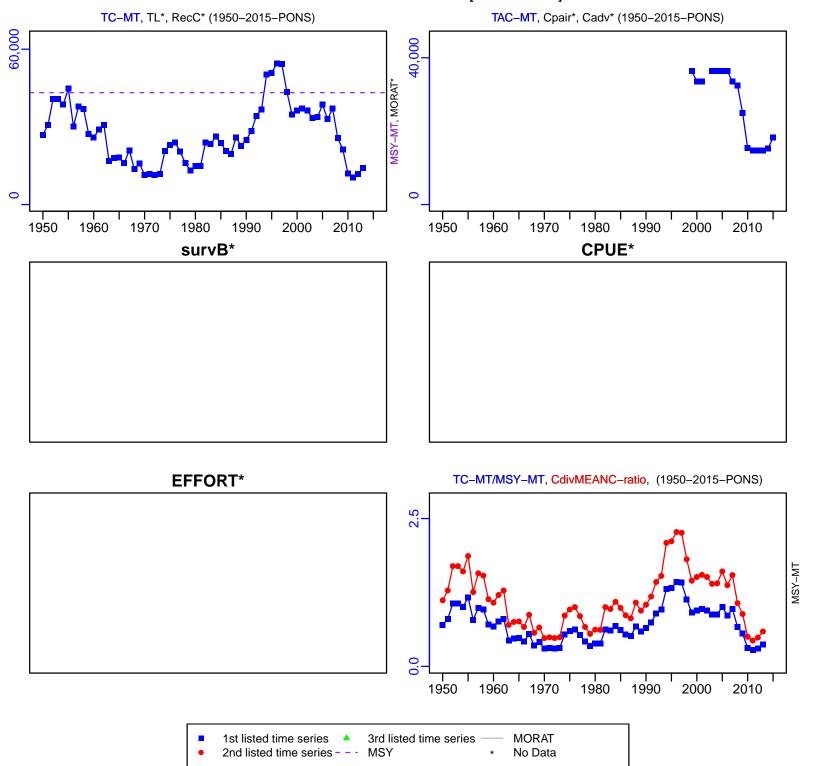
Metadata				
Scientific Name	Thunnus thynnus			
Current Assess ID	ICCAT-ATBTUNAEATL-1951-2016-PONS			
Area	Eastern Atlantic			
Management Authority	International Commission for the Conservation of Atlantic Tunas			
Assessor	International Commission for the Conservation of Atlantic Tunas			
Asmts in RAM	2015, 2016			

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	325,322
Fmsy	Fmsy-extr-1/yr	2016	0.111
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	325,322
Fmgt	Fmgt-1/yr	2015	0.14
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	40,252
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2016	605,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	4,330,000	-	-
F	F-1/yr	2016	0.038	-	10+
ER	-	-	-	-	-
TC	TC-MT	2015	13,200		
TL	TL-MT	2016	6940		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	1.73		
F/Fmsy	FdivFmsy-dimensionless	2016	0.34		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.734		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.209		
ER/ERmgt	-	-	-		



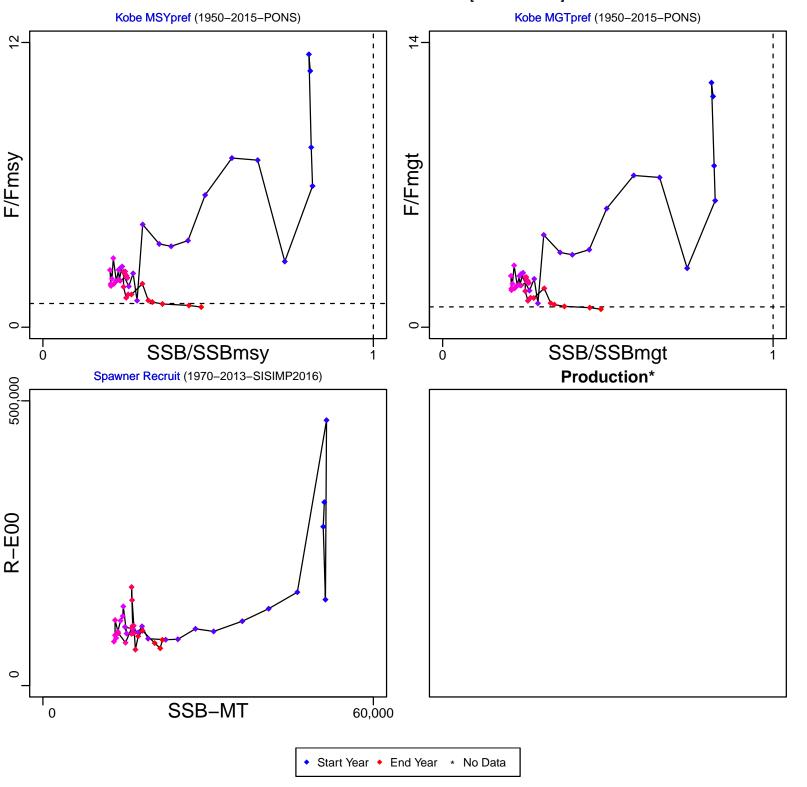


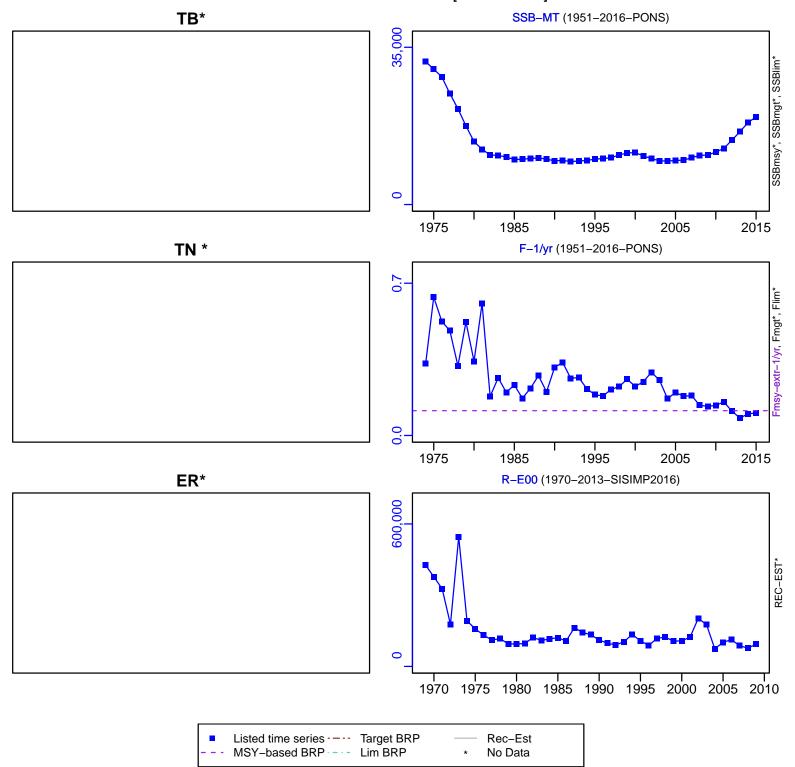


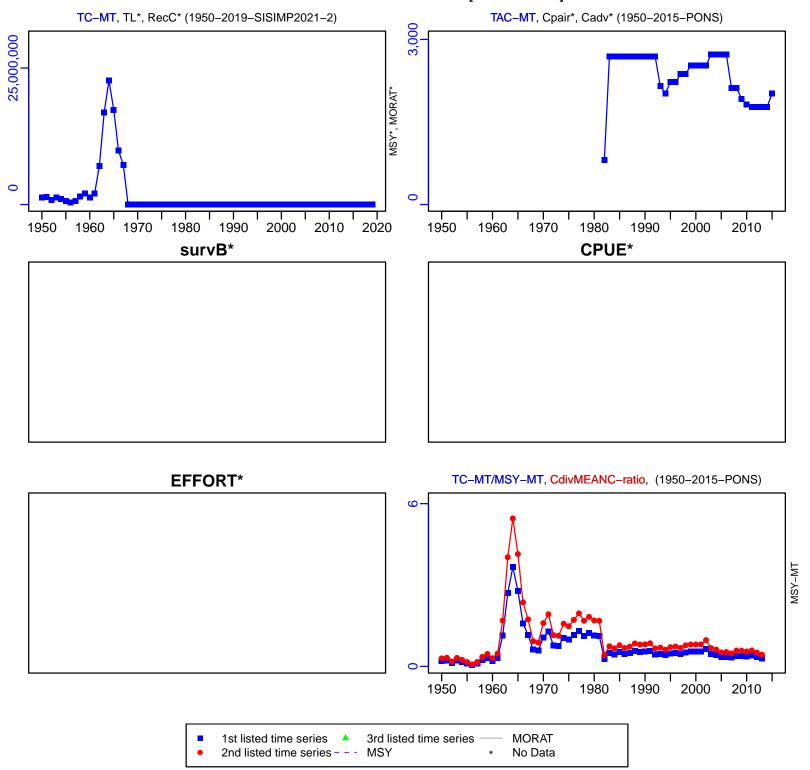
Metadata				
Scientific Name	Thunnus thynnus			
Current Assess ID	ICCAT-ATBTUNAWATL-1950-2019-SISIMP2021-2			
Area	Western Atlantic			
Management Authority	International Commission for the Conservation of Atlantic Tunas			
Assessor	International Commission for the Conservation of Atlantic Tunas			
Asmts in RAM	2015, 2019, 2016, 2013			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2015	62,443	
Fmsy	Fmsy-extr-1/yr	2016	0.104	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2015	62,443	
Fmgt	Fmgt-1/yr	2015	0.08	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2015	5233	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2016	18,400	-	-
TN	-	-	-	-	-
R	R-E00	2013	80,300	-	1
F	F-1/yr	2016	0.094	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	2310		
TL	TL-MT	2016	1910		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	0.479		
F/Fmsy	FdivFmsy-dimensionless	2016	0.9		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.479		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.887		
ER/ERmgt	-	-	-		





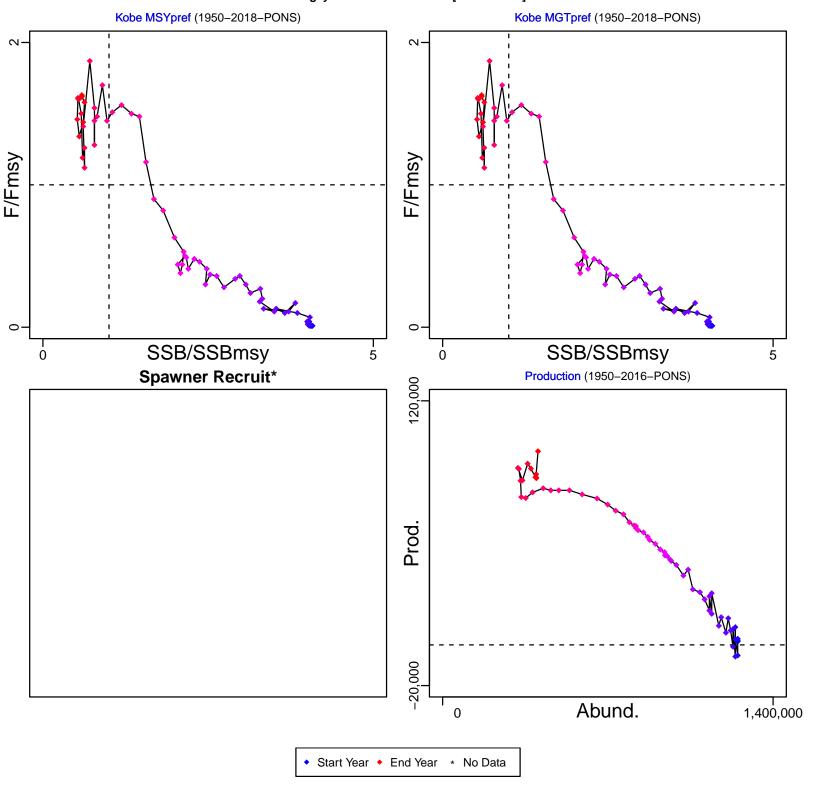


## Bigeye tuna Atlantic Ocean [BIGEYEATL]

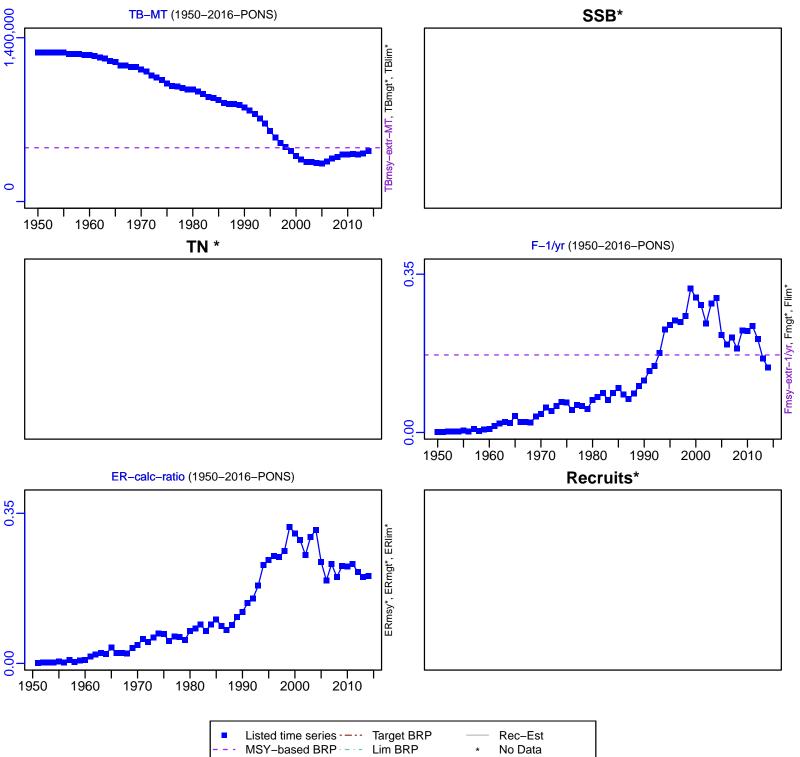
Metadata		
Scientific Name	Thunnus obesus	
Current Assess ID	ICCAT-BIGEYEATL-1950-2018-PONS	
Area	Atlantic Ocean	
Management Authority	International Commission for the Conservation of Atlantic Tunas	
Assessor	International Commission for the Conservation of Atlantic Tunas	
Asmts in RAM	2010, 2016, 2018	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2016	451,460	
SSBmsy	-	-	-	
Fmsy	Fmsy-extr-1/yr	2016	0.163	
ERmsy	ERmsy-calc-ratio	2010	0.216	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	76,000	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

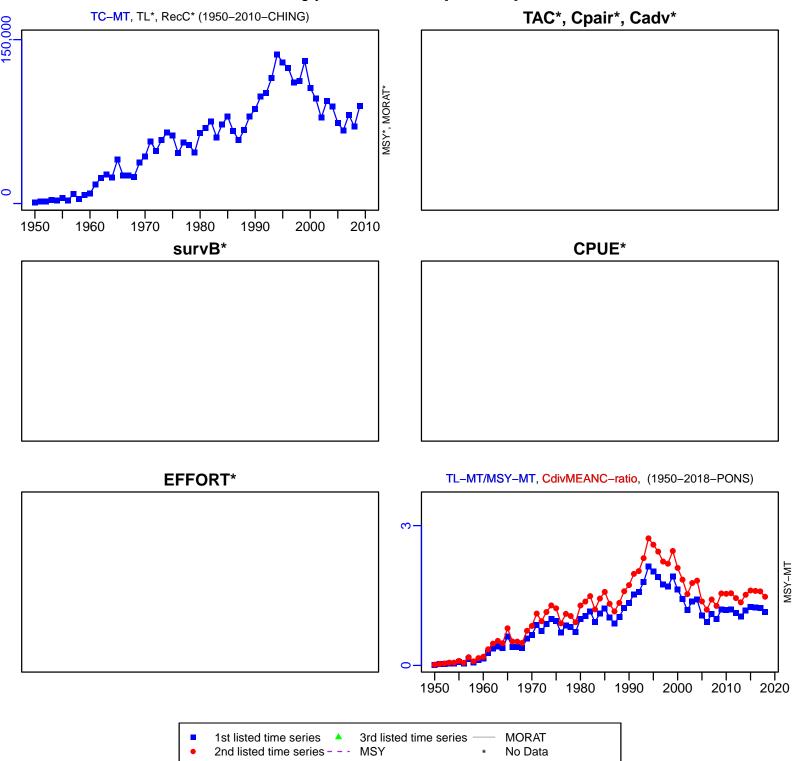
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2016	426,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	0.136	-	-
ER	ER-calc-ratio	2016	0.184	-	-
TC	TC-MT	2010	87,900		
TL	TL-MT	2018	72,880		
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.744		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	0.59		
F/Fmsy	FdivFmsy-dimensionless	2018	1.63		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2010	0.964		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



### Bigeye tuna Atlantic Ocean [BIGEYEATL]



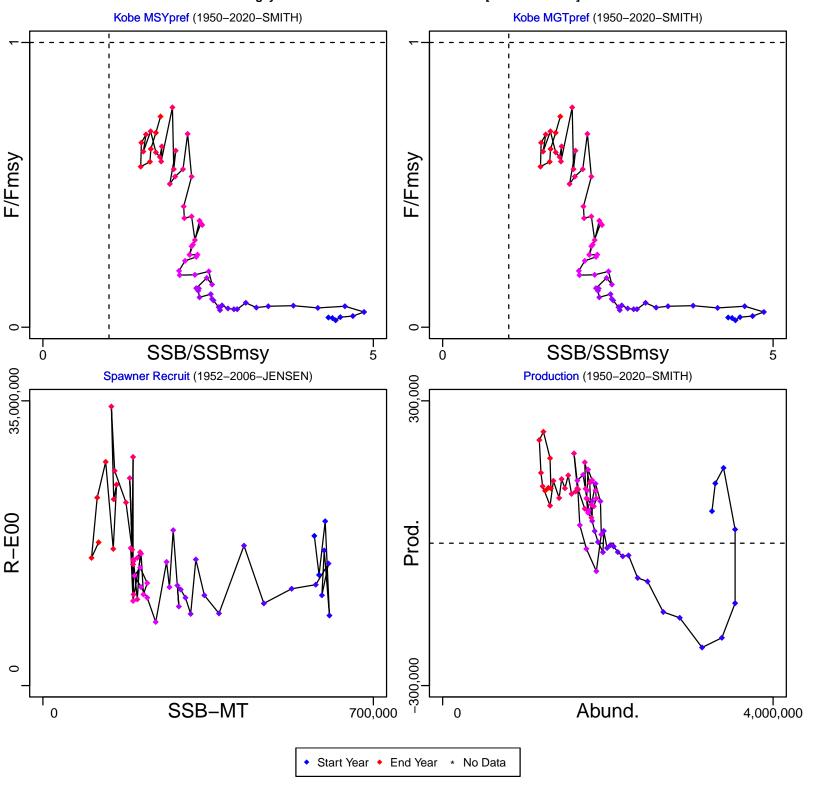
#### Bigeye tuna Atlantic Ocean [BIGEYEATL]

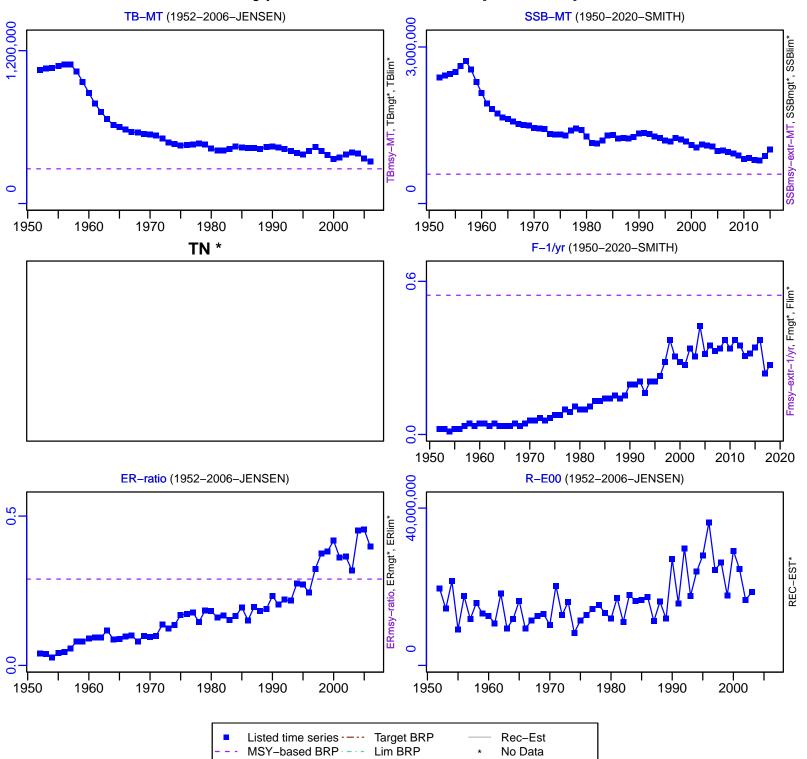


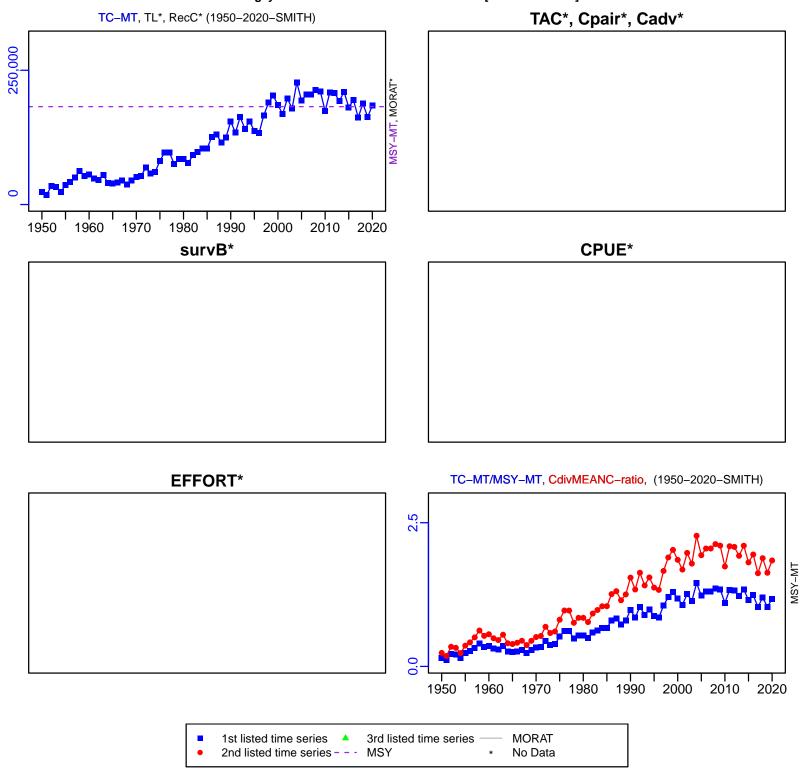
Metadata		
Scientific Name	Thunnus obesus	
Current Assess ID	SPC-BIGEYECWPAC-1950-2020-SMITH	
Area Central Western Pacific Ocean		
Management Authority	Western and Central Pacific Fisheries Commission	
Assessor	Secretariat of the Pacific Community	
Asmts in RAM	2015, 2020, 2006, 2012	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2006	249,600	
SSBmsy	SSBmsy-extr-MT	2020	527,536	
Fmsy	Fmsy-extr-1/yr	2020	0.501	
ERmsy	ERmsy-ratio	2006	0.259	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2012	345,400	
Fmgt	Fmgt-1/yr	2012	0.039	
ERmgt	-	-	-	
TB0	TB0-MT	2012	2,286,000	
SSB0	SSB0-MT	2012	1,207,000	
MSY	MSY-MT	2020	146,715	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	1,220,000	-	-
SSB	SSB-MT	2020	968,000	-	-
TN	-	-	-	-	-
R	R-E00	2006	17,600,000	-	-
F	F-1/yr	2020	0.25	-	-
ER	ER-calc-ratio	2020	0.124	-	-
TC	TC-MT	2020	148,371		
TL	TL-MT	2015	135,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	0.921		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	1.7		
F/Fmsy	FdivFmsy-dimensionless	2020	0.74		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	1.376		
TB/TBmgt		-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



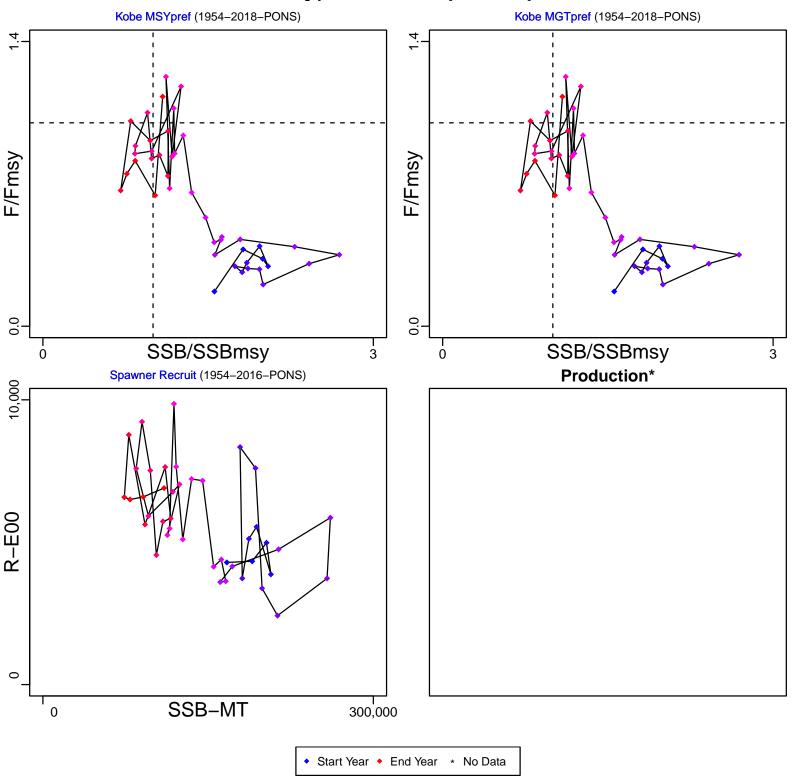


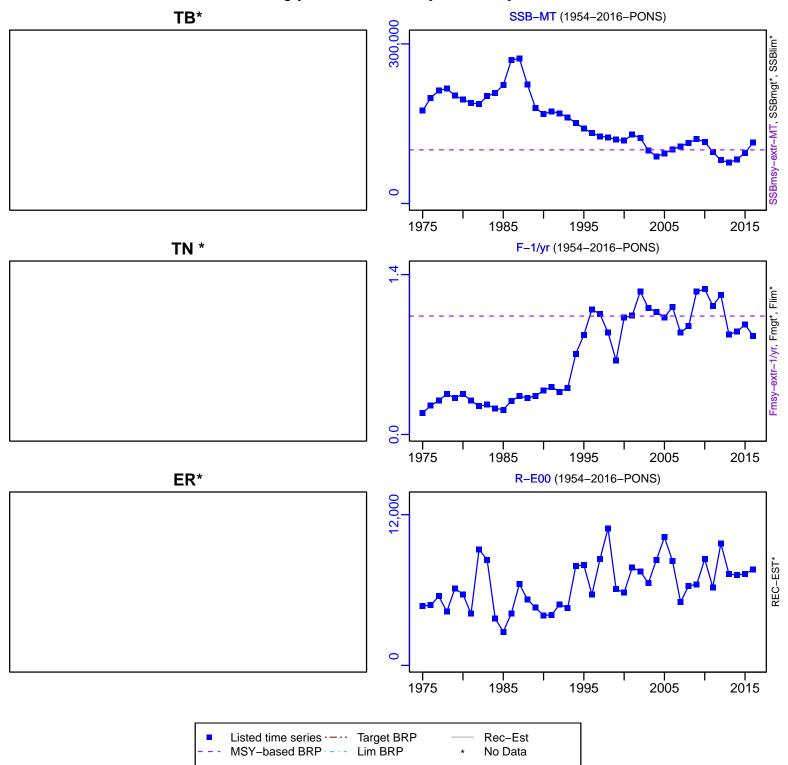


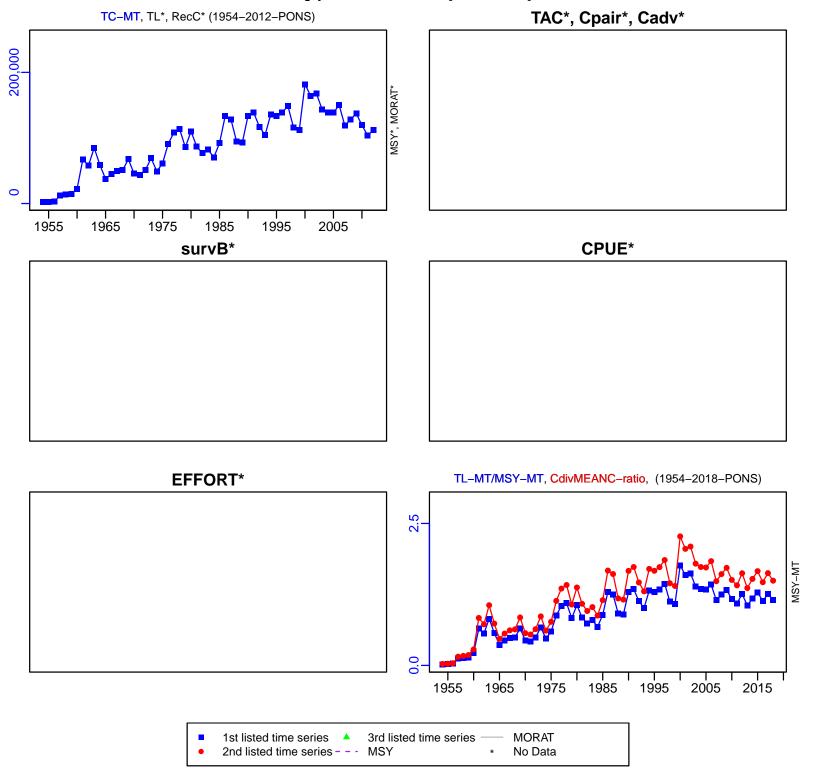
Metadata		
Scientific Name	Thunnus obesus	
Current Assess ID IATTC-BIGEYEEPAC-1954-2018-PONS		
Area Eastern Pacific		
Management Authority	Inter-American Tropical Tuna Commission	
Assessor	Inter-American Tropical Tuna Commission	
Asmts in RAM	2012, 2016, 2018	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2012	420,280
SSBmsy	SSBmsy-extr-MT	2016	96,545
Fmsy	Fmsy-extr-1/yr	2016	0.994
ERmsy	ERmsy-calc-ratio	2012	0.263
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	95,491
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2016	110,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	6900	-	-
F	F-1/yr	2016	0.826	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	88,000		
TL	TL-MT	2018	93,990		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	0.945		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	1.015		
F/Fmsy	FdivFmsy-dimensionless	2018	1.129		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



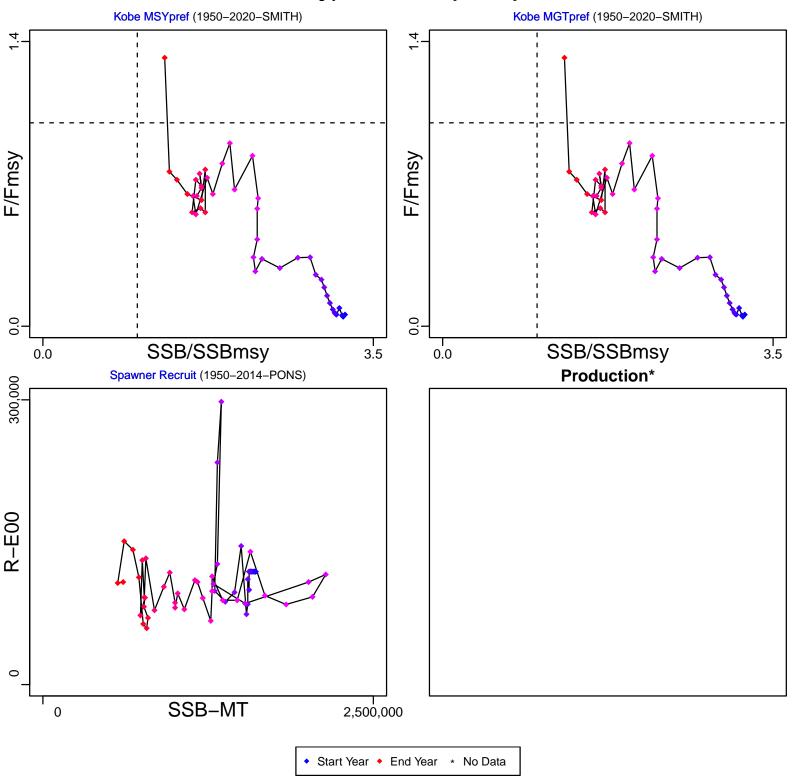


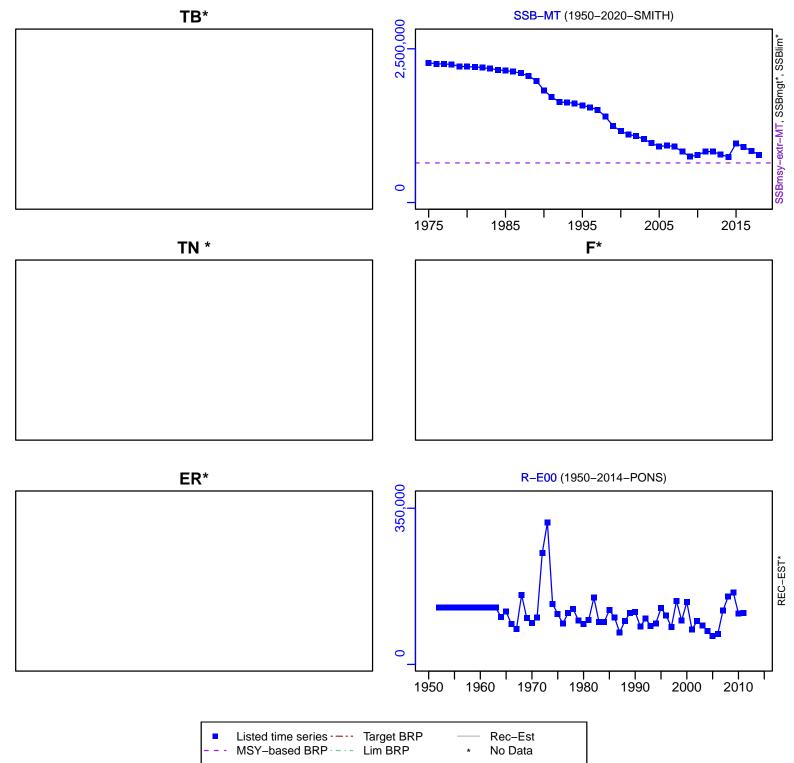


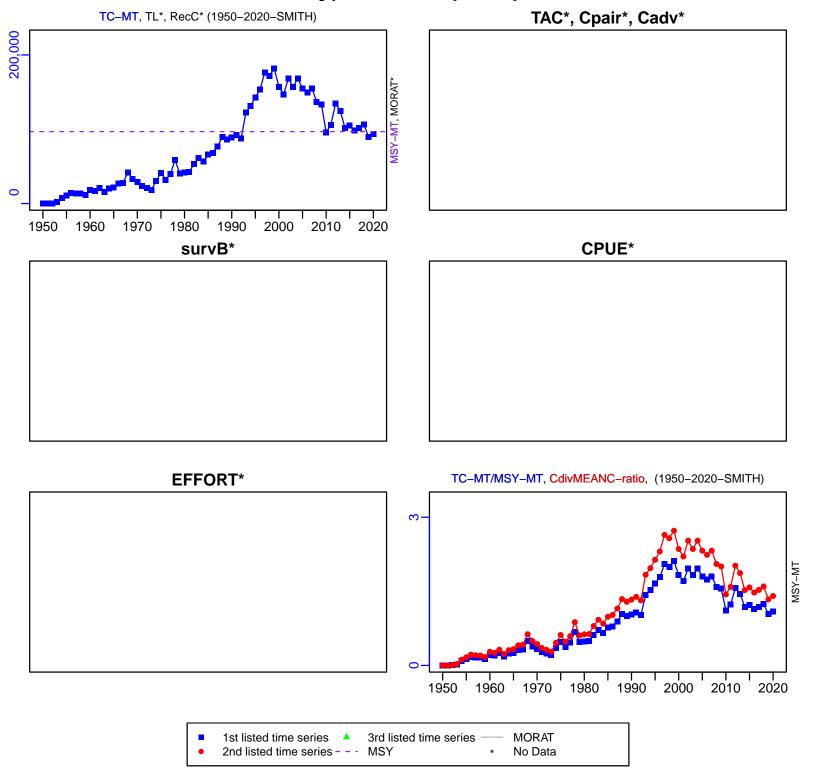
Metadata			
Scientific Name	Thunnus obesus		
Current Assess ID	IOTC-BIGEYEIO-1950-2020-SMITH		
Area	Indian Ocean		
Management Authority	Indian Ocean Tuna Commission		
Assessor	Indian Ocean Tuna Commission		
Asmts in RAM	2014, 2016, 2020		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-extr-MT	2020	593,381
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2014	1,674,570
MSY	MSY-MT	2020	86,236
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2020	714,158	-	-
TN	-	-	-	-	-
R	R-E00	2014	108,000	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	83,498		
TL	TL-MT	2016	87,600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	1.29		
F/Fmsy	FdivFmsy-dimensionless	2020	1.32		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



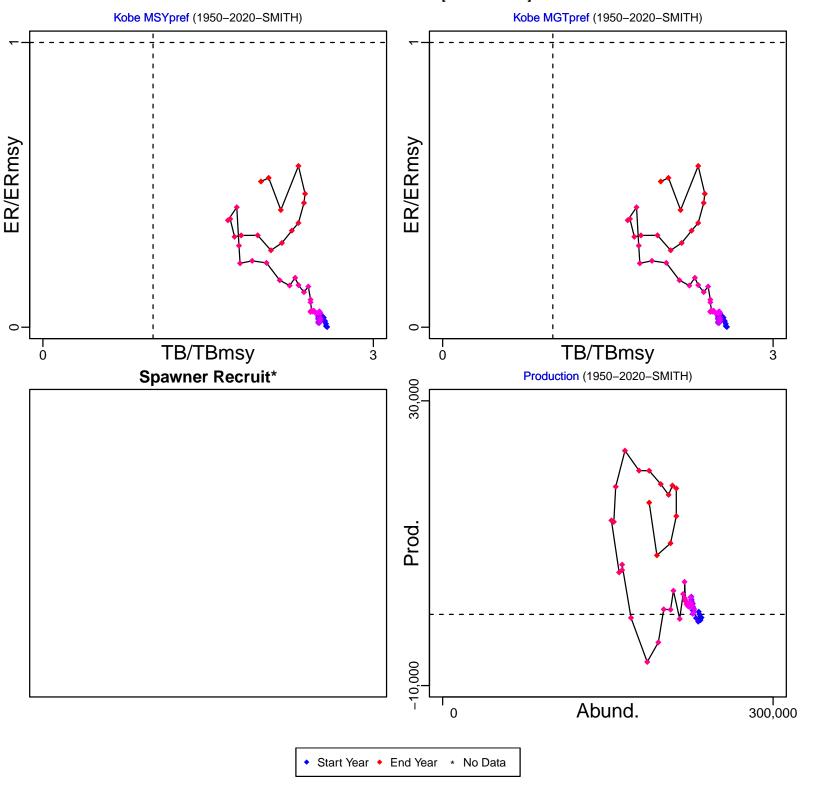


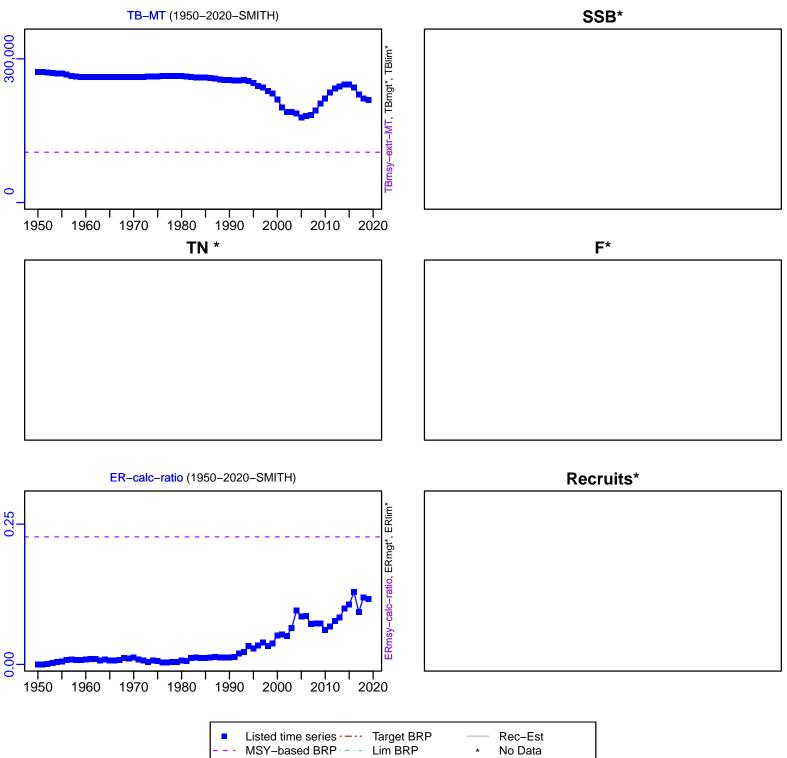


Metadata			
Scientific Name	Istiompax indica		
Current Assess ID	IOTC-BLKMARLINIO-1950-2020-SMITH		
Area Indian Ocean			
Management Authority	Indian Ocean Tuna Commission		
Assessor	Indian Ocean Tuna Commission		
Asmts in RAM	2014, 2018, 2020		

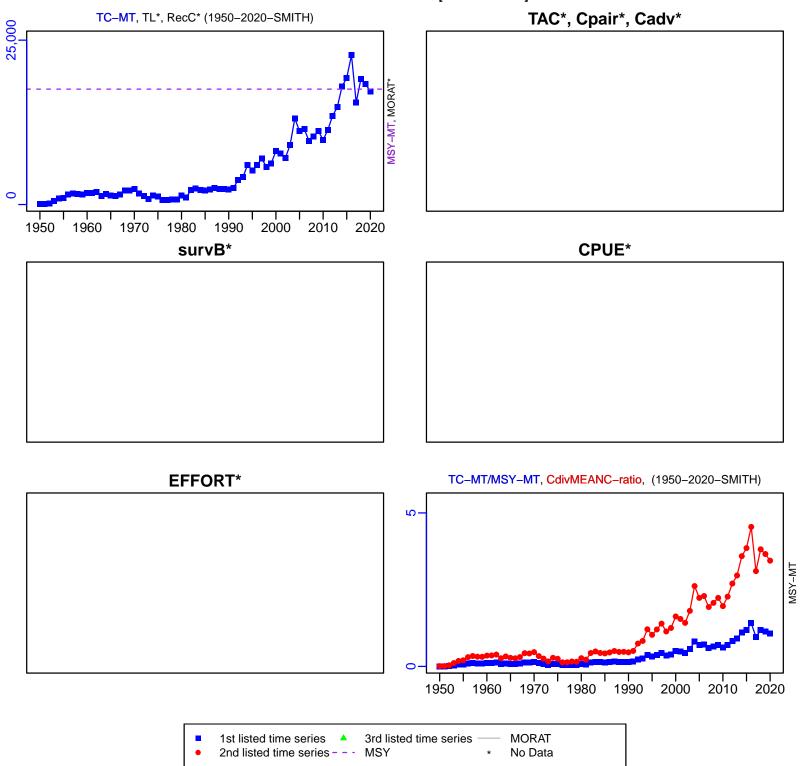
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2020	90,501	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2020	0.191	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2014	73,000	
SSB0	-	-	-	
MSY	MSY-MT	2020	17,301	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	184,400	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2020	0.098	-	-
TC	TC-MT	2020	16,977		
TL	TL-MT	2018	16,459		
TB/TBmsy	TBdivTBmsy-dimensionless	2020	1.98		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2020	0.53		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2020	0.512		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





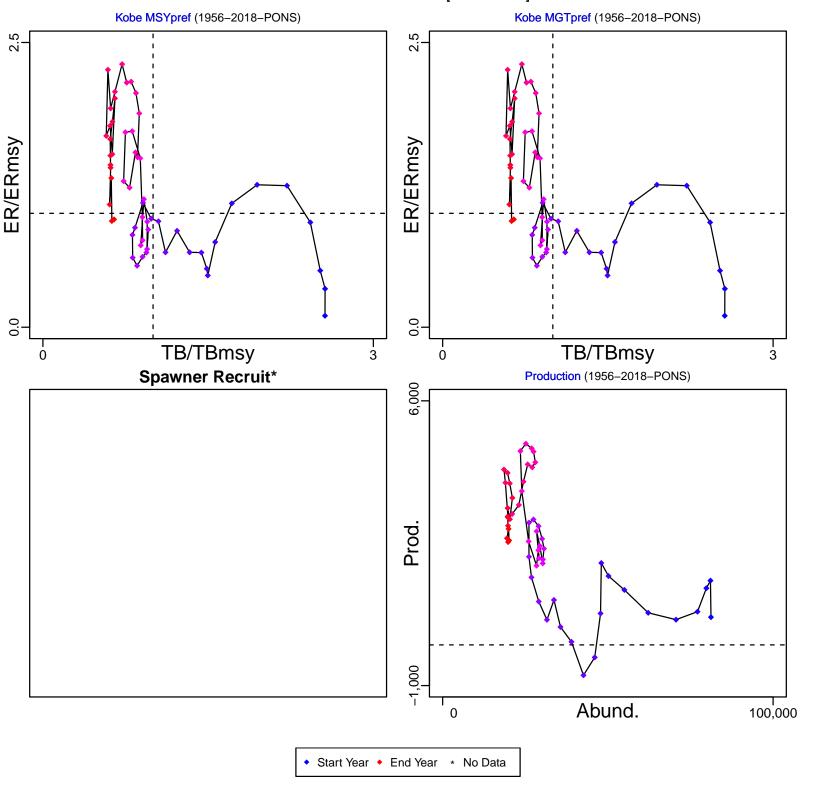
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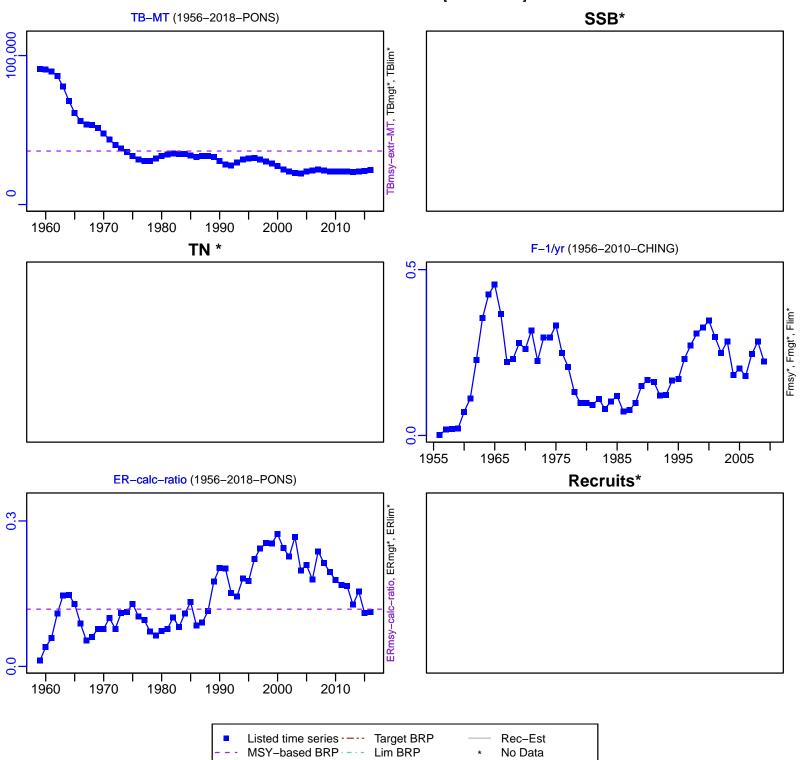


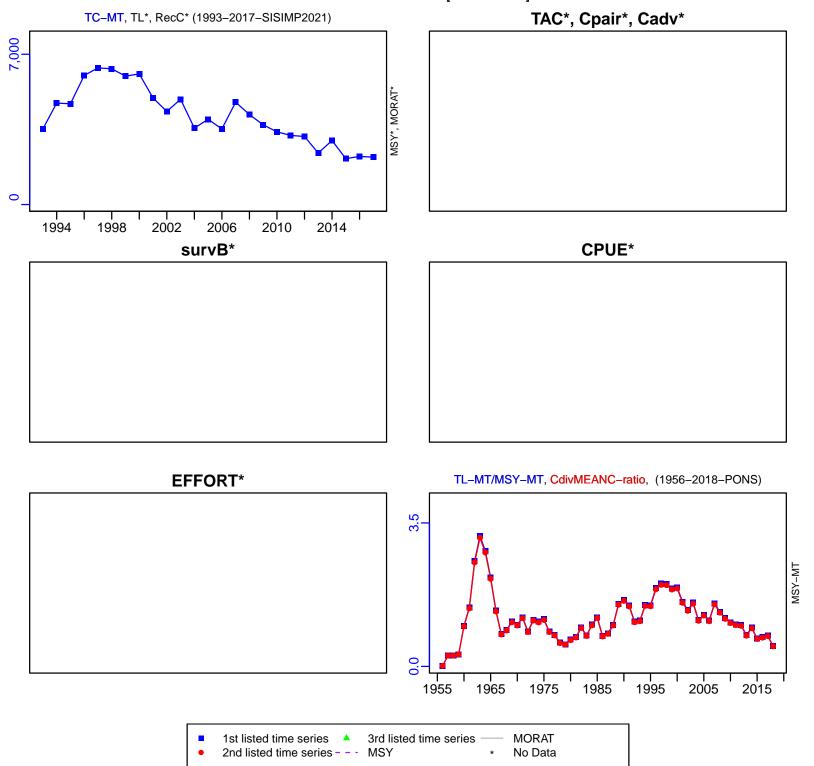
Metadata			
Scientific Name	Makaira nigricans		
Current Assess ID	ICCAT-BMARLINATL-1956-2018-PONS		
Area	Atlantic Ocean		
Management Authority	International Commission for the Conservation of Atlantic Tunas		
Assessor	International Commission for the Conservation of Atlantic Tunas		
Asmts in RAM	2010, 2018, 2017		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2018	32,065	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2018	0.103	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	3302	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	20,741	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.222	-	-
ER	ER-calc-ratio	2018	0.098	-	-
TC	TC-MT	2017	1987		
TL	TL-MT	2018	1411		
TB/TBmsy	TBdivTBmsy-dimensionless	2018	0.646		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2018	0.957		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2018	0.947		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





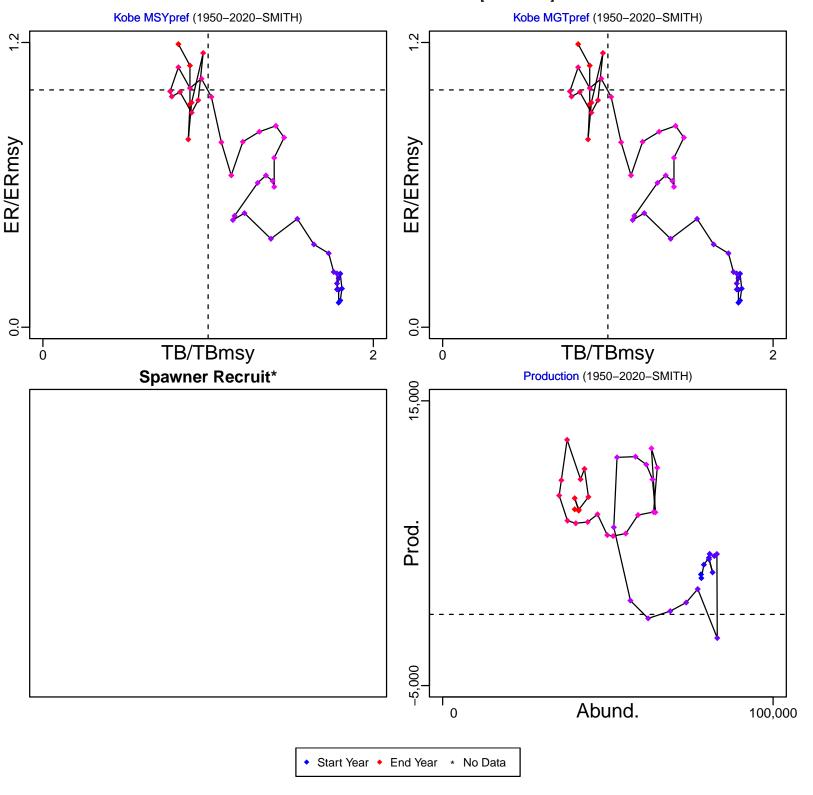


## Indo Pacific blue marlin Indian Ocean [BMARLINIO]

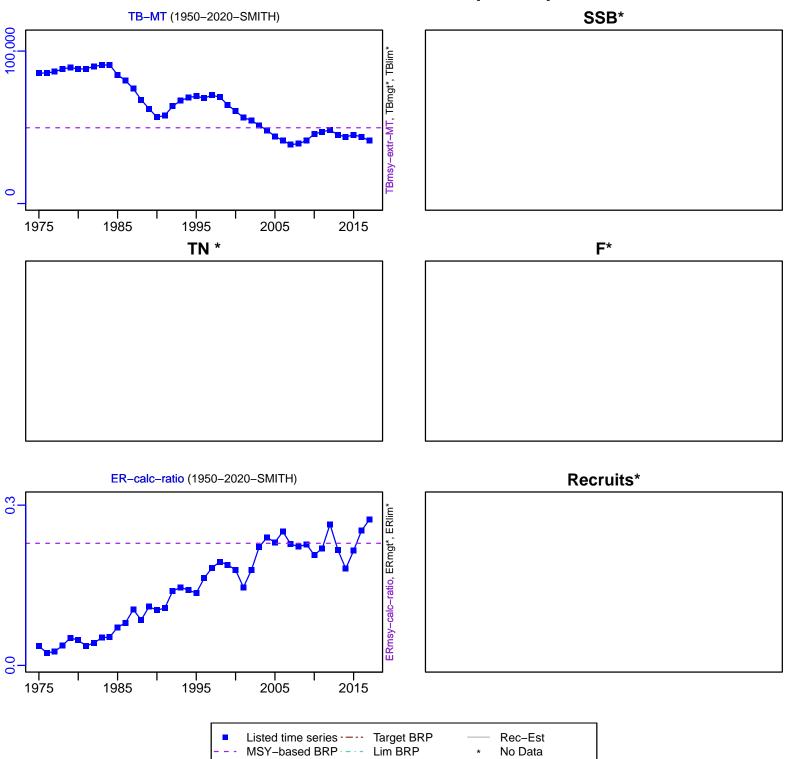
Metadata		
Scientific Name	Makaira mazara	
Current Assess ID	IOTC-BMARLINIO-1950-2020-SMITH	
Area	Indian Ocean	
Management Authority	Indian Ocean Tuna Commission	
Assessor	Indian Ocean Tuna Commission	
Asmts in RAM	2014, 2018, 2020	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2020	45,428	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2020	0.22	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2014	259,000	
SSB0	-	-	-	
MSY	MSY-MT	2020	9980	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

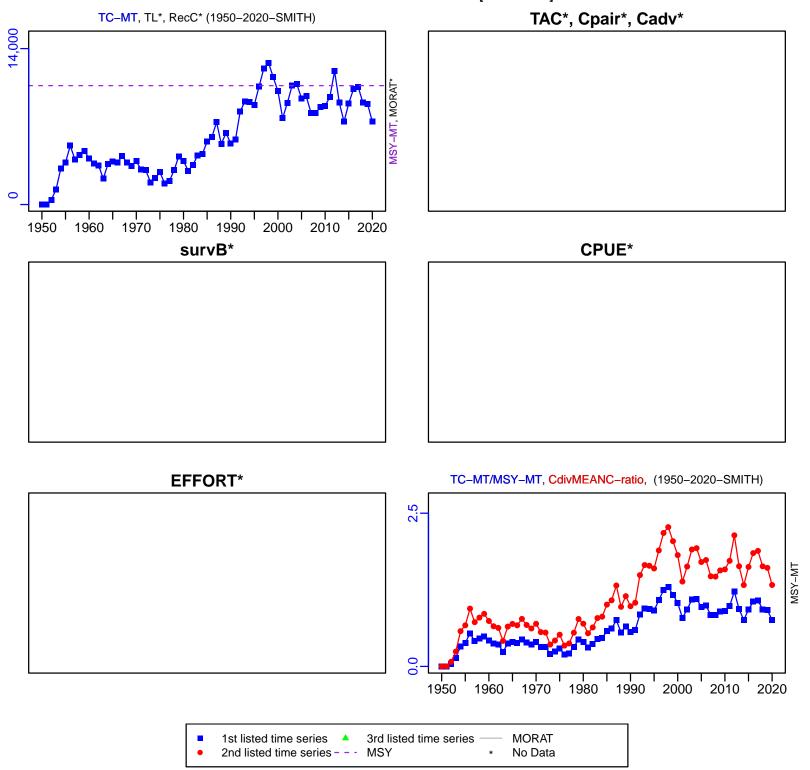
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	37,660	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2020	0.262	-	-
TC	TC-MT	2020	6958		
TL	TL-MT	2018	7811		
TB/TBmsy	TBdivTBmsy-dimensionless	2020	0.82		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2020	1.47		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2020	1.193		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



### Indo Pacific blue marlin Indian Ocean [BMARLINIO]



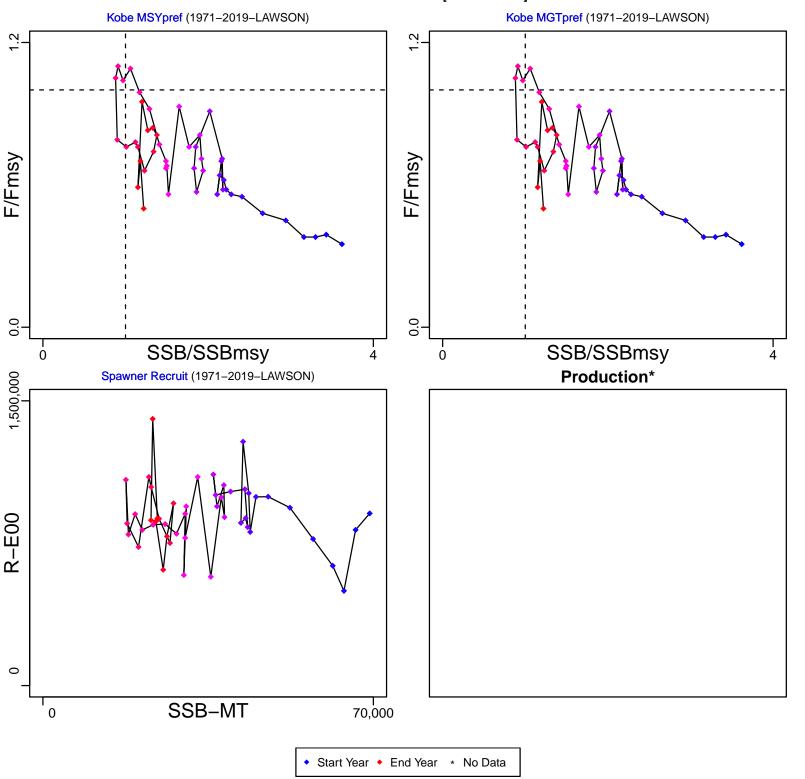
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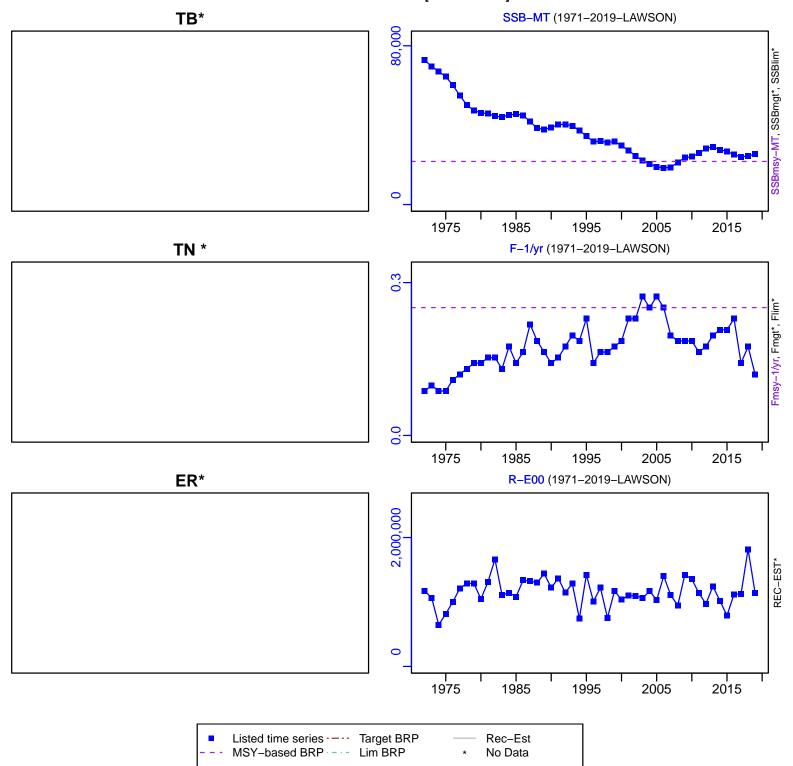


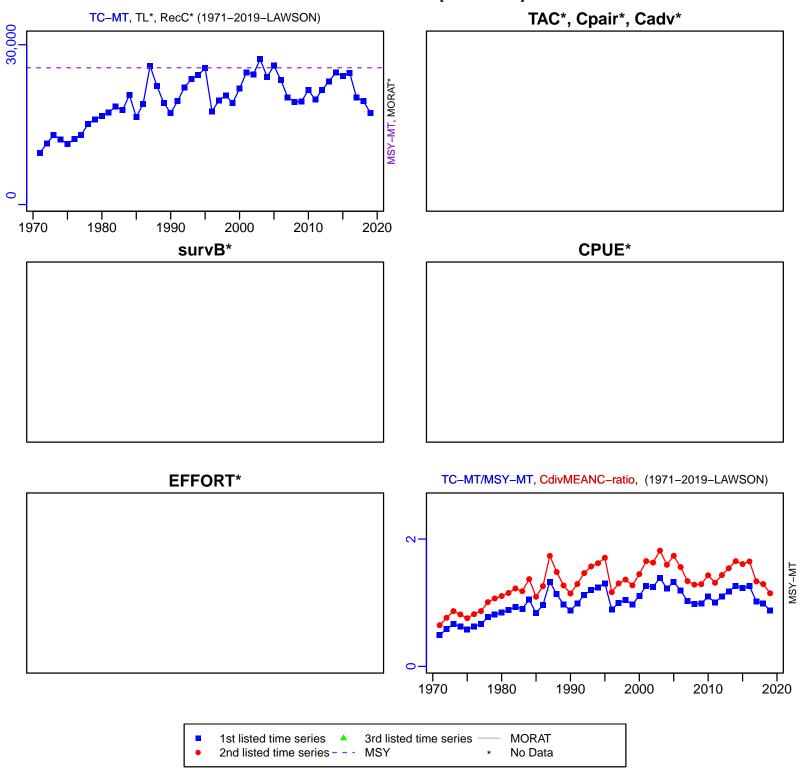
Metadata			
Scientific Name	Makaira nigricans		
Current Assess ID ISC-BMARLINPAC-1971-2019-LAWSON			
Area Pacific Ocean			
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Assessor	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Asmts in RAM	2011, 2014, 2019		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2019	20,677		
Fmsy	Fmsy-1/yr	2019	0.23		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2011	19,437		
Fmgt	Fmgt-1/yr	2011	0.32		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2019	24,600		
M	M-1/yr	2011	0.42		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2019	24,241	Females	-
TN	-	-	-	-	-
R	R-E00	2019	880,000	-	-
F	F-1/yr	2019	0.11	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	16,504		
TL	TL-MT	2014	20,356		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	1.22		
F/Fmsy	FdivFmsy-dimensionless	2019	0.5		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	1.286		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	0.725		
ER/ERmgt	-	-	-		





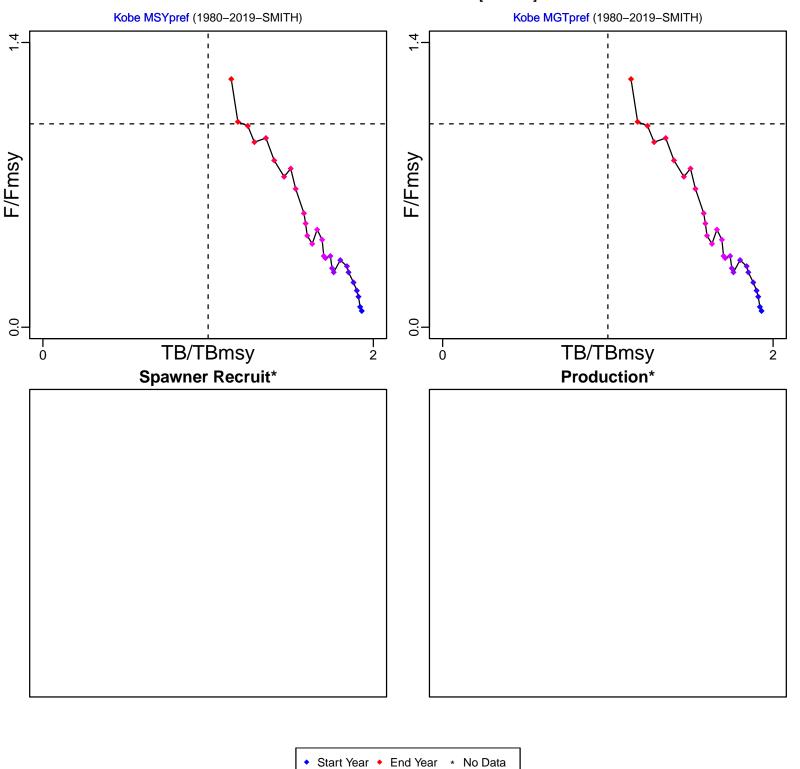


# Indo-Pacific sailfish Indian Ocean [IPSAILIO]

Metadata			
Scientific Name	Istiophorus platypterus		
Current Assess ID IOTC-IPSAILIO-1980-2019-SMITH			
Area	Indian Ocean		
Management Authority	Indian Ocean Tuna Commission		
Assessor	Indian Ocean Tuna Commission		
Asmts in RAM	2018, 2019		

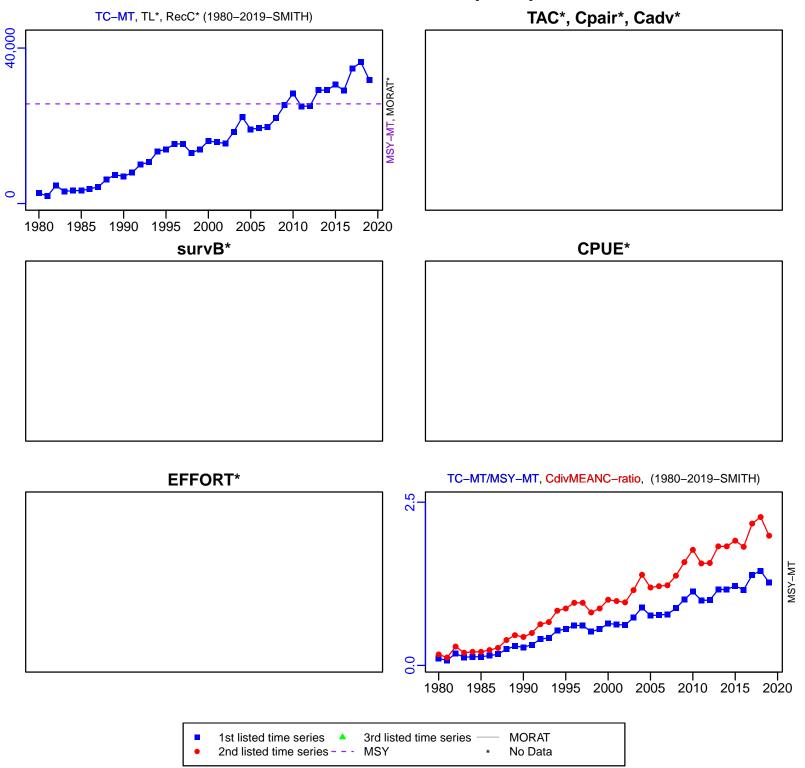
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	23,900	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	29,635		
TL	TL-MT	2018	32,287		
TB/TBmsy	TBdivTBmsy-dimensionless	2019	1.14		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2019	1.22		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



## Indo-Pacific sailfish Indian Ocean [IPSAILIO]

TB*	SSB*
TN *	F*
ER*	Recruits*
	I L
Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est



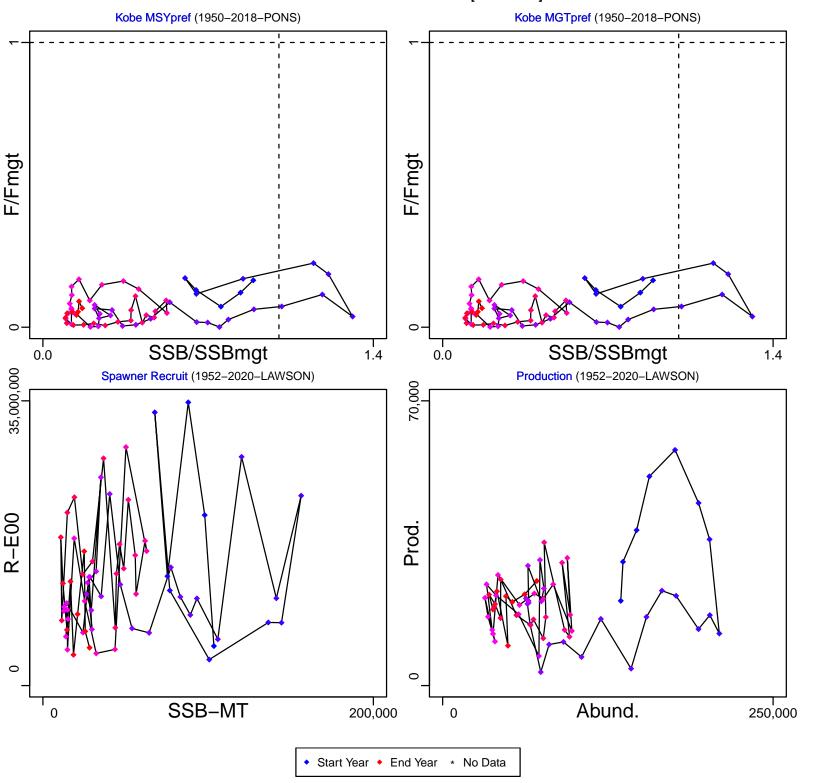
# Pacific bluefin tuna Pacific Ocean [PACBTUNA]

Metadata				
Scientific Name	Thunnus orientalis			
Current Assess ID	ISC-PACBTUNA-1952-2020-LAWSON			
Area	Pacific Ocean			
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean			
Assessor	International Scientific Committee for Tuna and Tuna-like Species			
	in the North Pacific Ocean			
Asmts in RAM	2018, 2012, 2014, 2016, 2020			

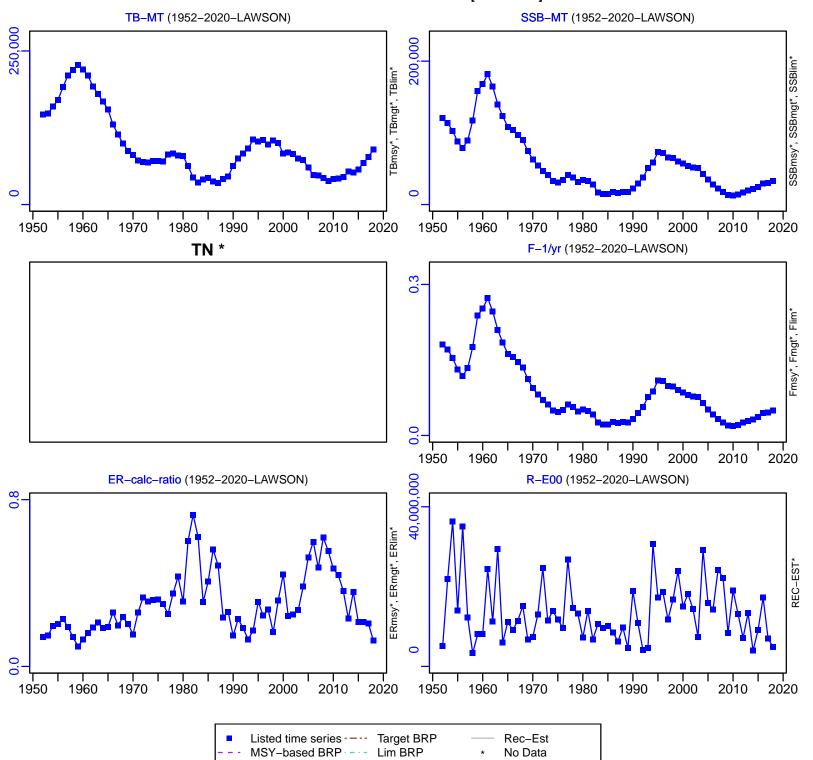
Reference Points							
Туре	ID	Asmt Year	Value				
TBmsy	TBmsy-calc-MT	2012	251,233				
SSBmsy	SSBmsy-MT	2016	135,874				
Fmsy	Fmsy-1/yr	2012	0.117				
ERmsy	ERmsy-ratio	2012	0.069				
TBmgt	-	-	-				
SSBmgt	-	-	-				
Fmgt	-	-	-				
ERmgt	-	-	-				
TB0	-	-	-				
SSB0	-	-	-				
MSY	MSY-MT	2012	17,345				
М	-	-	-				
TBlim	-	-	-				
SSBlim	SSBlim-MT	2016	101,906				
Flim	-	-	-				
ERlim	-	-	-				

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2020	82,212	-	-		
SSB	SSB-MT	2020	28,228	-	-		
TN	-	-	-	-	-		
R	R-E00	2020	4,658,000	-	-		
F	F-1/yr	2020	0.045	-	-		
ER	ER-calc-ratio	2020	0.124	-	-		
TC	TC-MT	2020	13,779				
TL	TL-MT	2018	7165				
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	0.178				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.157				
F/Fmsy	FdivFmsy-dimensionless	2012	1.79				
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2012	4.914				
TB/TBmgt	-	-	-				
SSB/SSBmgt	SSBdivSSBmgt-dimensionless	2018	0.167				
F/Fmgt	FdivFmgt-dimensionless	2018	0.067				
ER/ERmgt	-	-	-				

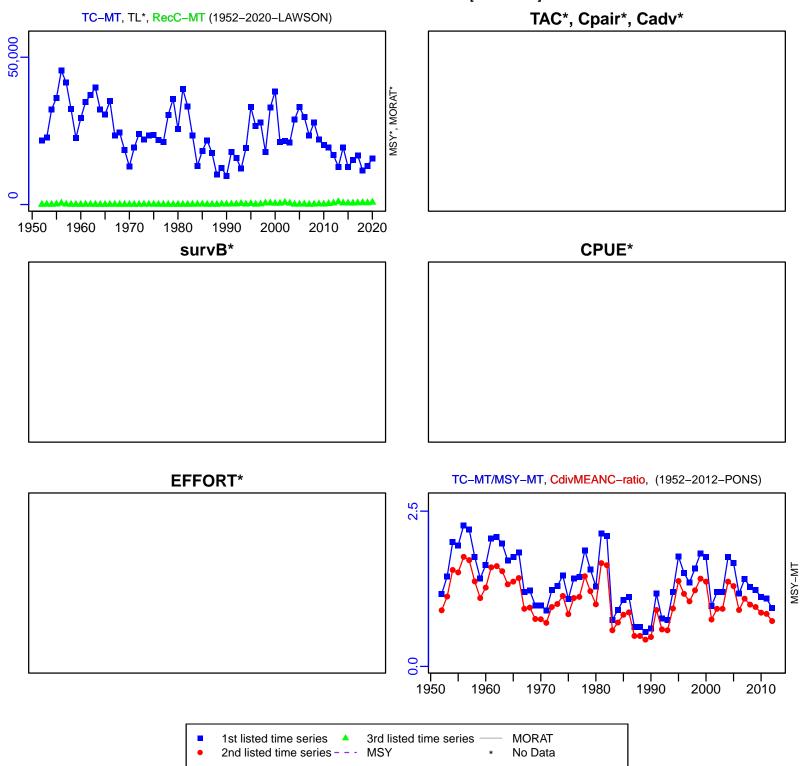
### Pacific bluefin tuna Pacific Ocean [PACBTUNA]



#### Pacific bluefin tuna Pacific Ocean [PACBTUNA]



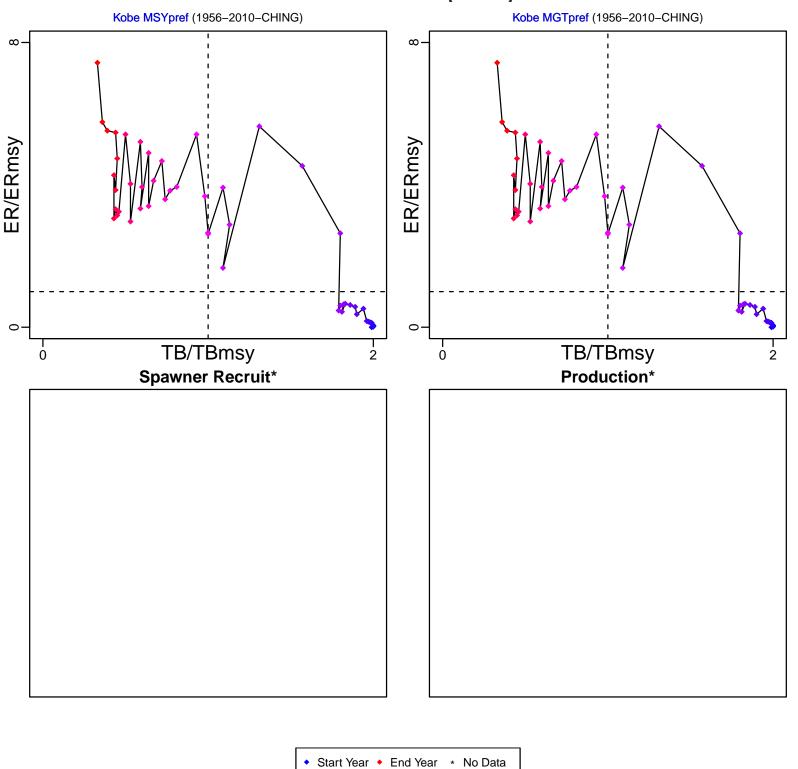
## Pacific bluefin tuna Pacific Ocean [PACBTUNA]

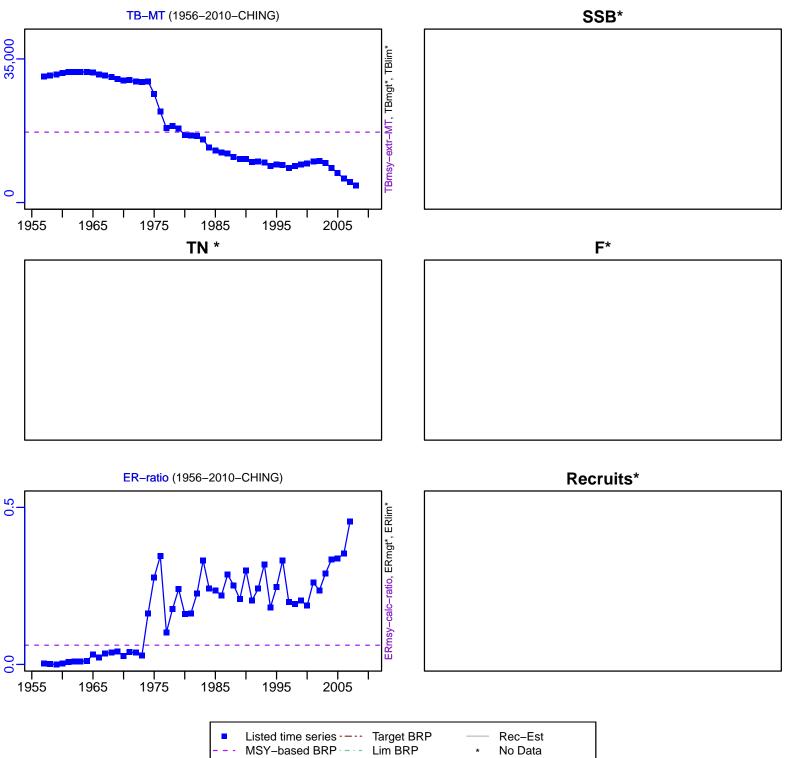


Metadata			
Scientific Name	Istiophorus albicans		
Current Assess ID	ICCAT-SAILEATL-1950-2018-PONS		
Area Eastern Atlantic			
Management Authority	International Commission for the Conservation of Atlantic Tunas		
Assessor	International Commission for the Conservation of Atlantic Tunas		
Asmts in RAM	2018, 2010		

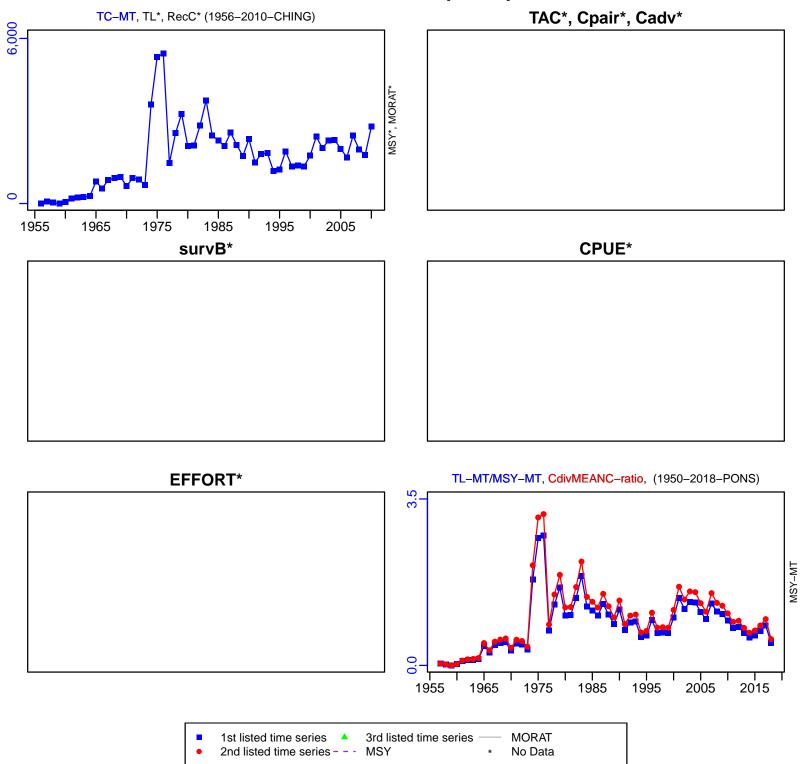
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2010	14,775	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2010	0.145	
ERmsy	ERmsy-calc-ratio	2010	0.058	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2010	24,320	
SSB0	-	-	-	
MSY	MSY-MT	2018	1977	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERIIM	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	3620	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0.428	-	-
TC	TC-MT	2010	2770		
TL	TL-MT	2018	938		
TB/TBmsy	TBdivTBmsy-dimensionless	2018	0.88		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2010	3.08		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2010	7.431		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





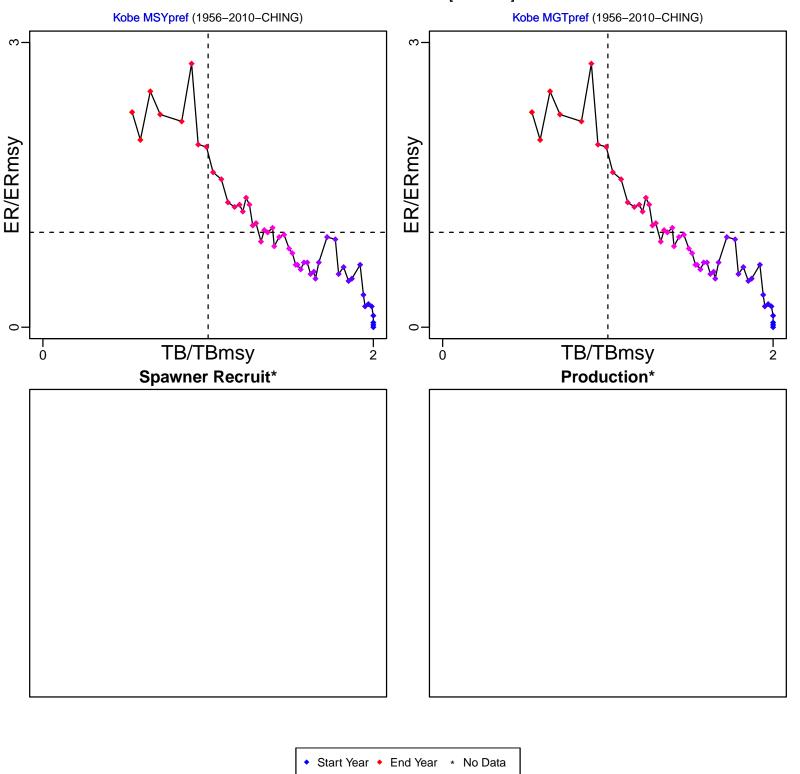
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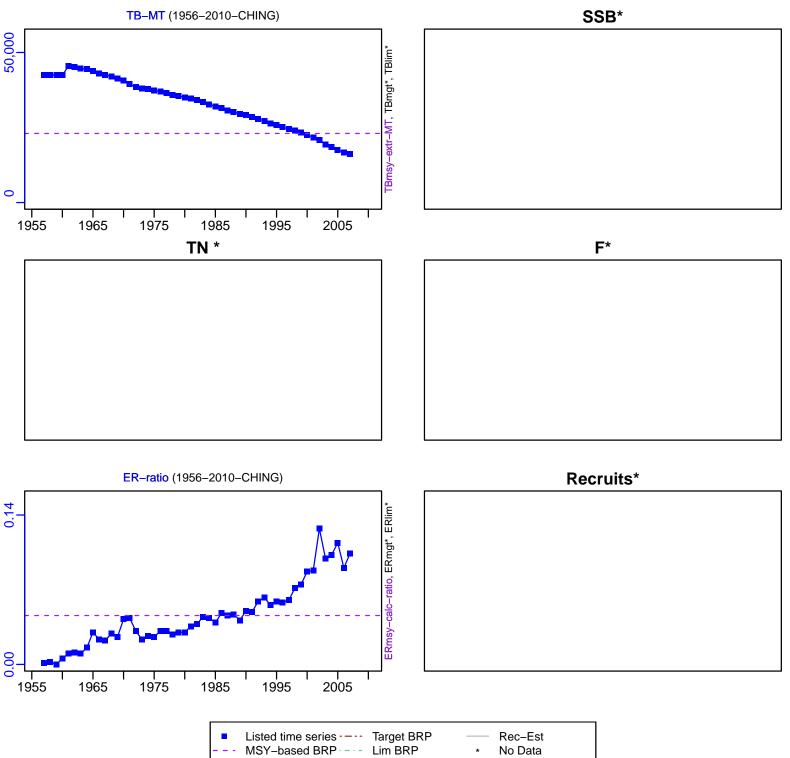


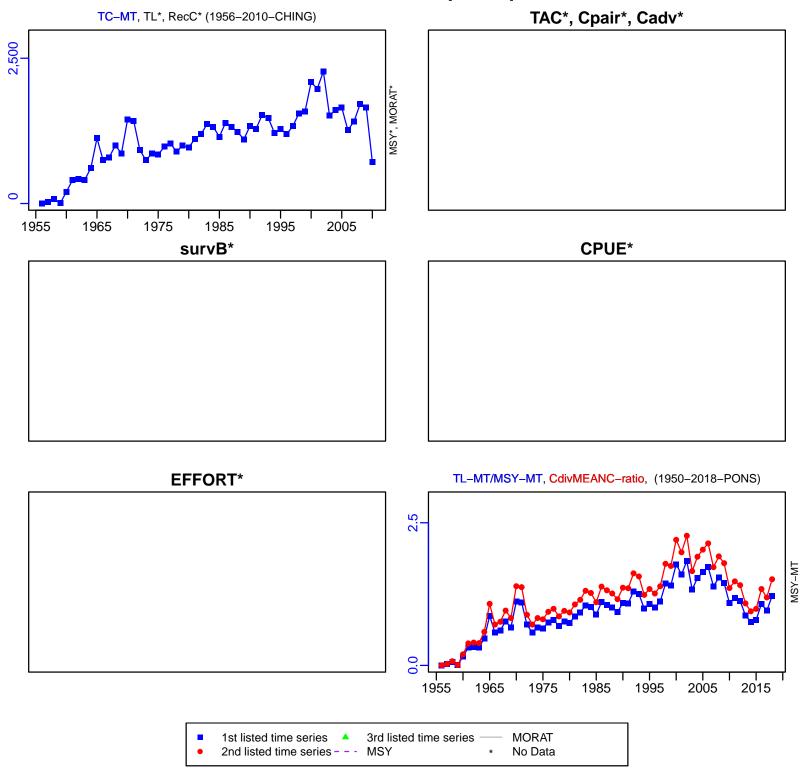
Metadata			
Scientific Name	Istiophorus albicans		
Current Assess ID ICCAT-SAILWATL-1950-2018-PONS			
Area Western Atlantic			
Management Authority International Commission for the Conservation of Atlantic Tuna			
Assessor	International Commission for the Conservation of Atlantic Tunas		
Asmts in RAM	2018, 2010		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2010	20,708	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2010	0.043	
ERmsy	ERmsy-calc-ratio	2010	0.041	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2010	41,070	
SSB0	-	-	-	
MSY	MSY-MT	2018	1317	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	14,500	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0.093	-	-
TC	TC-MT	2010	625		
TL	TL-MT	2018	1369		
TB/TBmsy	TBdivTBmsy-dimensionless	2018	0.382		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2010	2.2		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2010	2.266		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





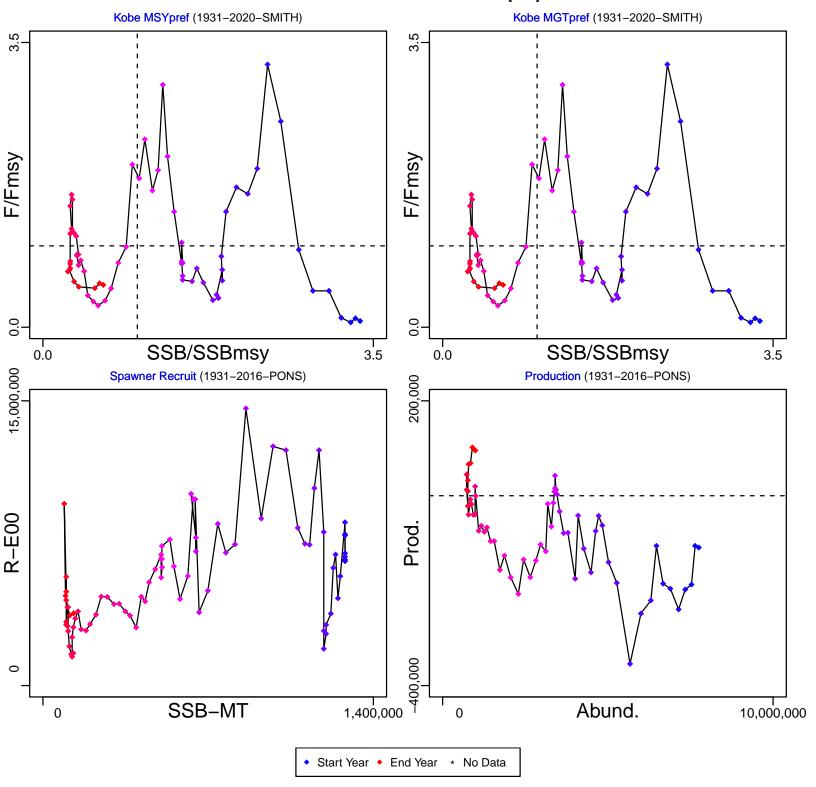


# Southern bluefin tuna Southern Oceans [SBT]

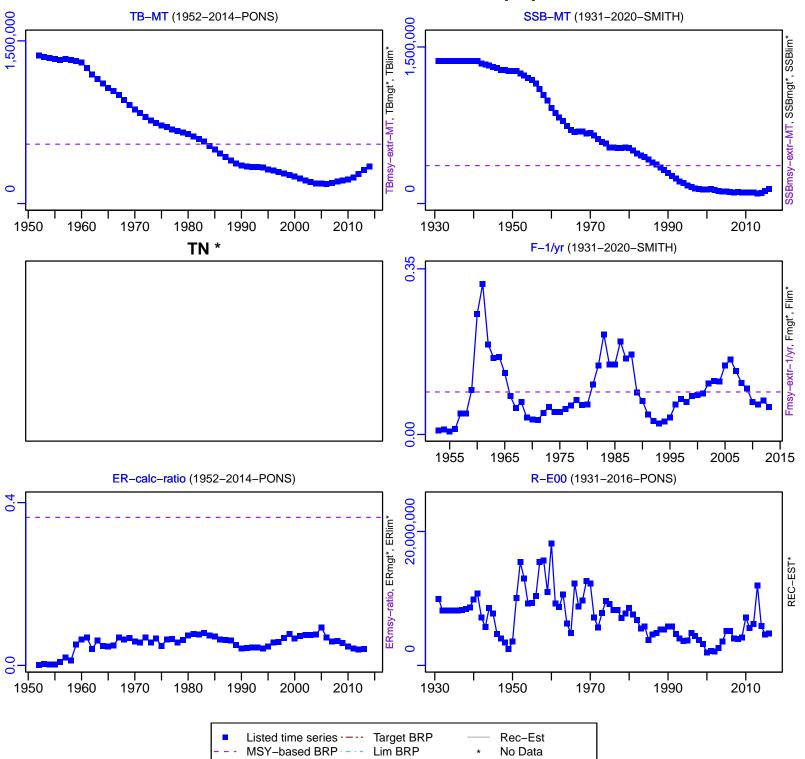
Metadata			
Scientific Name	Thunnus maccoyii		
Current Assess ID	CCSBT-SC-SBT-1931-2020-SMITH		
Area Southern Oceans			
Management Authority	Commission for the Conservation of Southern Bluefin Tuna		
Assessor	CCSBT Scientific Committee		
Asmts in RAM	2016, 2020, 2014		

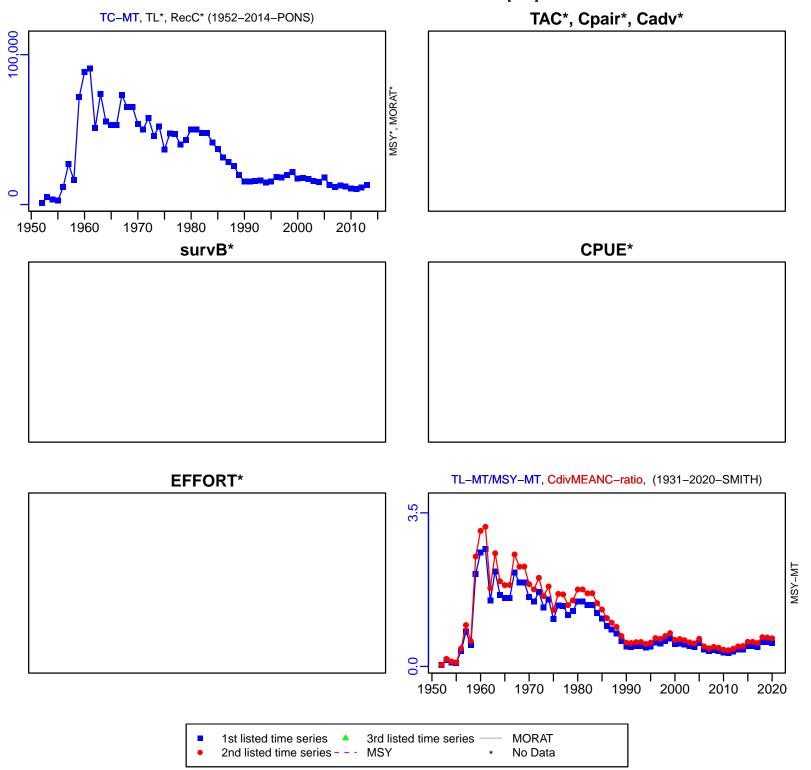
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-extr-MT	2014	533,659
SSBmsy	SSBmsy-extr-MT	2020	341,425
Fmsy	Fmsy-extr-1/yr	2020	0.089
ERmsy	ERmsy-ratio	2014	0.355
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2020	33,207
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2016	1,070,000	-	-
SSB	SSB-MT	2020	130,000	Females	-
TN	-	-	-	-	-
R	R-E00	2016	3,810,000	-	-
F	F-1/yr	2020	0.058	-	-
ER	ER-calc-ratio	2016	0.013	-	-
TC	TC-MT	2014	11,700		
TL	TL-MT	2020	16,441		
TB/TBmsy	TBdivTBmsy-dimensionless	2014	0.653		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	0.69		
F/Fmsy	FdivFmsy-dimensionless	2020	0.52		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.11		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Southern bluefin tuna Southern Oceans [SBT]

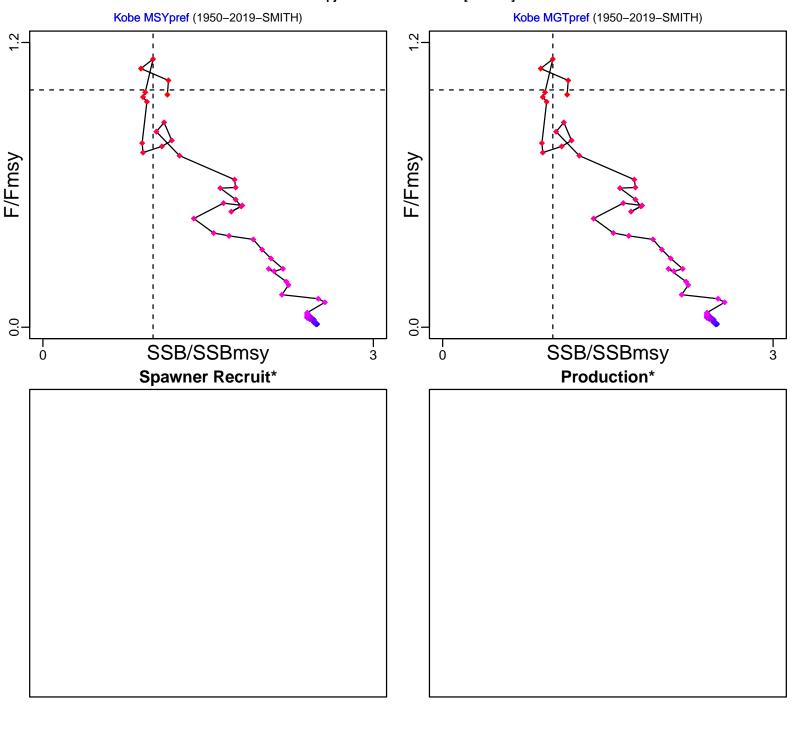




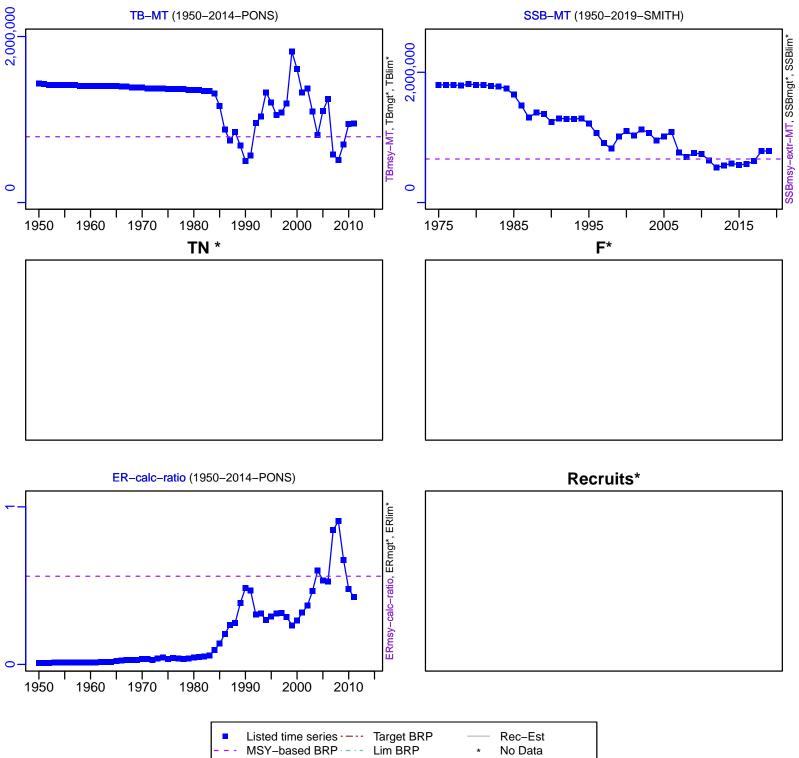
Metadata			
Scientific Name	Katsuwonus pelamis		
Current Assess ID IOTC-SKJCIO-1950-2019-SMIT			
Area	Indian Ocean		
Management Authority	Indian Ocean Tuna Commission		
Assessor	Indian Ocean Tuna Commission		
Asmts in RAM	2014, 2016, 2019		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2014	788,806	
SSBmsy	SSBmsy-extr-MT	2019	521,631	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2014	0.529	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	574,000	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

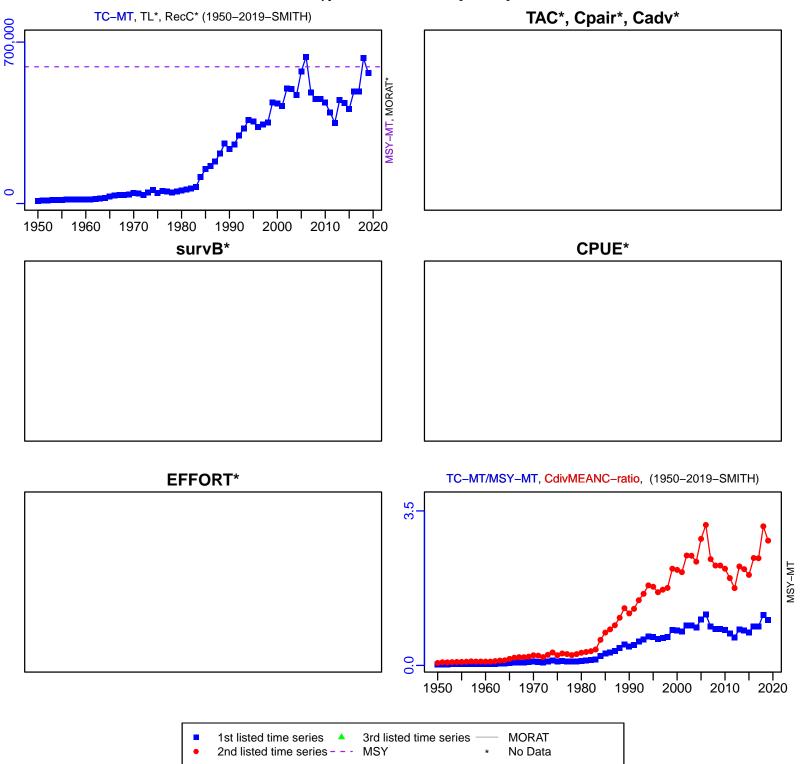
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	947,000	-	-
SSB	SSB-MT	2019	615,000	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.404	-	-
TC	TC-MT	2019	547,248		
TL	TL-MT	2016	471,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2014	1.15		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	1.13		
F/Fmsy	FdivFmsy-dimensionless	2019	0.98		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2014	0.765		
TB/TBmgt		-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data



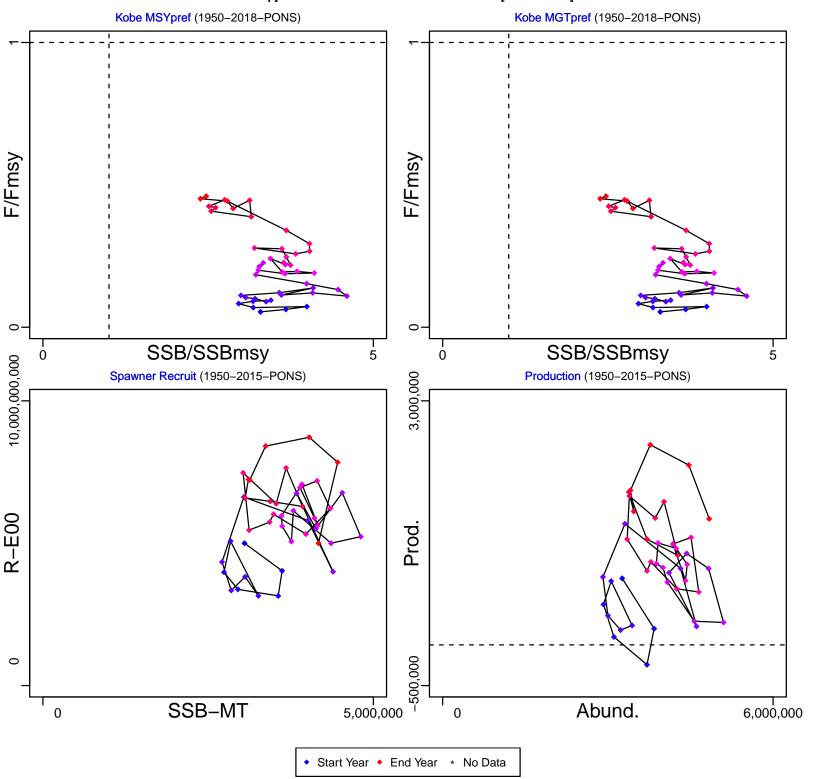
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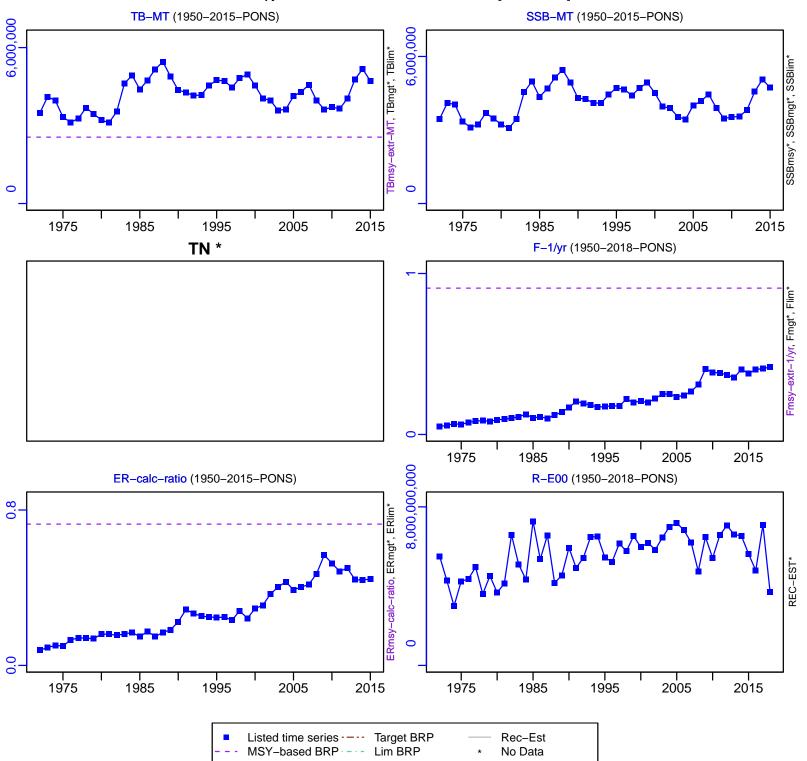


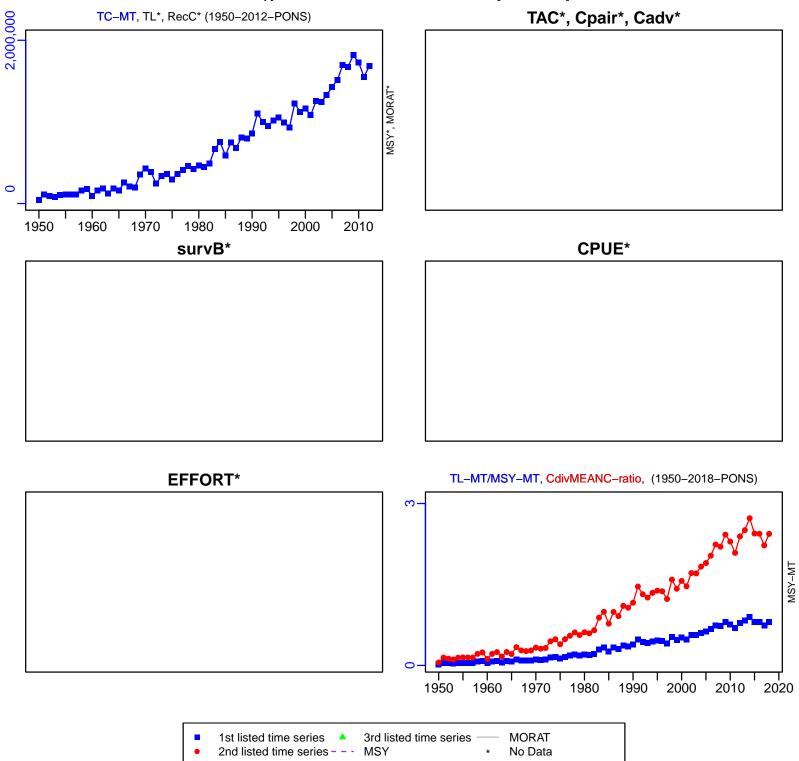
Metadata			
Scientific Name Katsuwonus pelamis			
Current Assess ID SPC-SKJCWPAC-1950-2018-PONS			
Area Central Western Pacific Ocean			
Management Authority Western and Central Pacific Fisheries Commission			
Assessor Secretariat of the Pacific Community			
Asmts in RAM	2012, 2015, 2018		

Reference Points				
Туре	ID Asmt Year		Value	
TBmsy	TBmsy-extr-MT	2015	2,388,395	
SSBmsy	SSBmsy-MT	2012	1,753,000	
Fmsy	Fmsy-extr-1/yr	2018	0.877	
ERmsy	ERmsy-calc-ratio	2015	0.678	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2012	1,753,000	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2012	6,587,000	
SSB0	SSB0-MT	2012	6,229,000	
MSY	MSY-MT	2018	2,296,566	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	4,410,000	-	-
SSB	SSB-MT	2015	4,170,000	-	-
TN	-	-	-	-	-
R	R-E00	2018	3,512,462,963	-	-
F	F-1/yr	2018	0.404	-	-
ER	ER-calc-ratio	2015	0.415	-	-
TC	TC-MT	2012	1,650,000		
TL	TL-MT	2018	1,795,559		
TB/TBmsy	TBdivTBmsy-dimensionless	2018	1.724		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	2.471		
F/Fmsy	FdivFmsy-dimensionless	2018	0.46		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	0.612		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



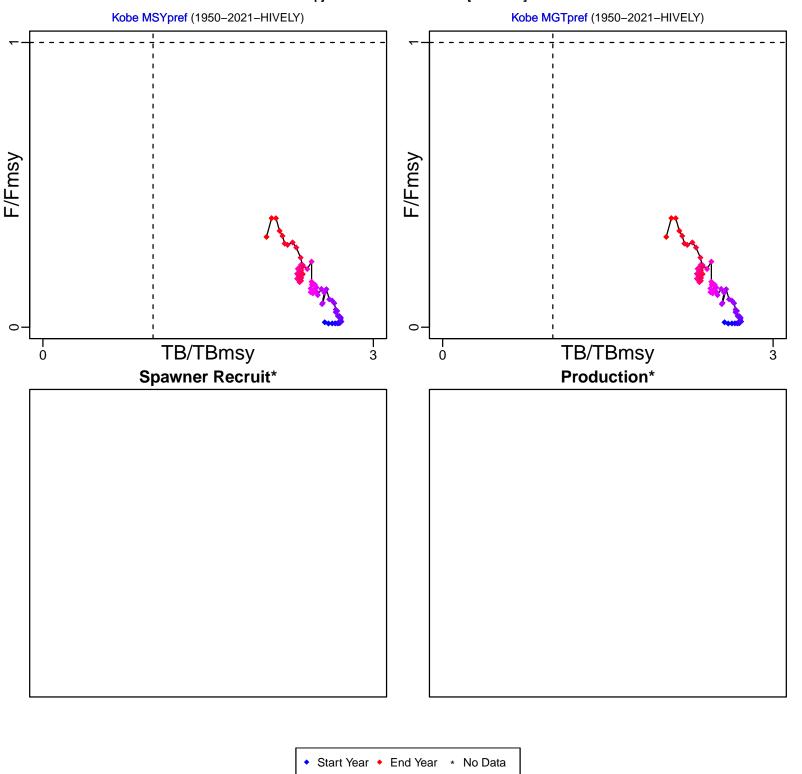


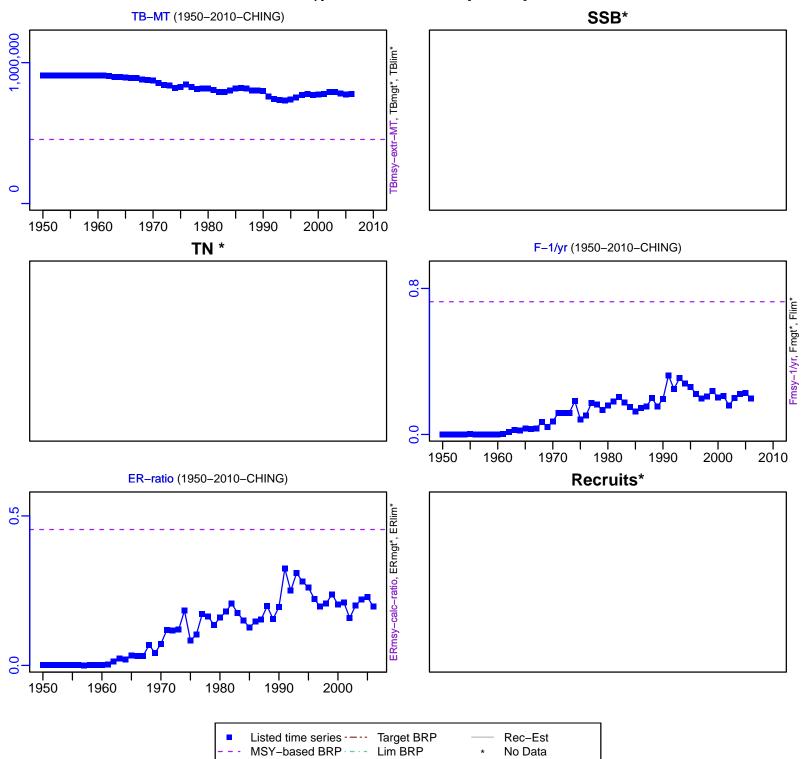


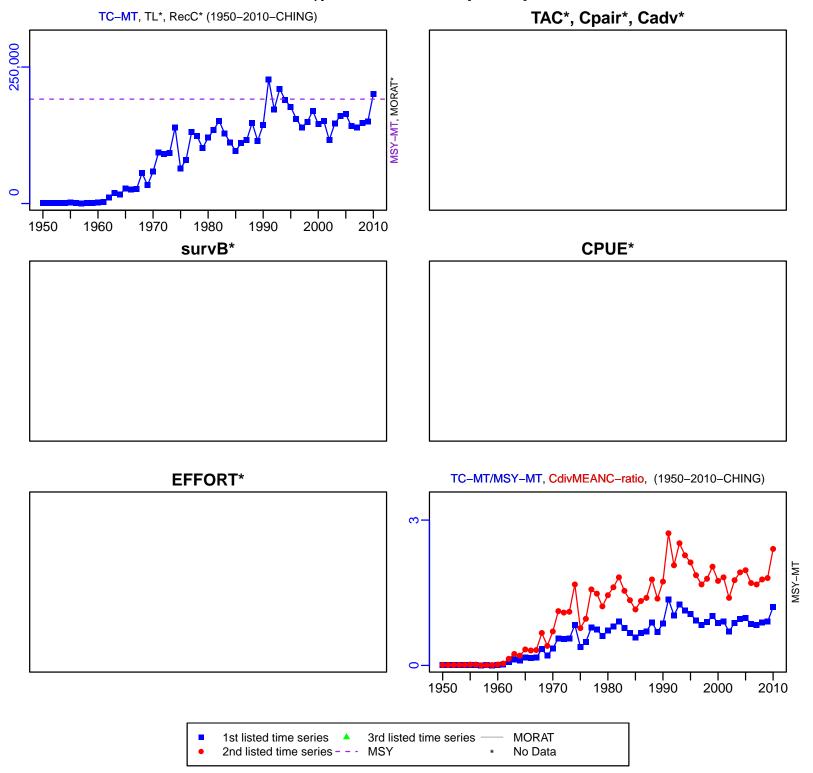
Metadata			
Scientific Name	Katsuwonus pelamis		
Current Assess ID ICCAT-SKJEATL-1950-2021-HIVELY			
Area Eastern Atlantic			
Management Authority International Commission for the Conservation of Atlantic Tun-			
Assessor International Commission for the Conservation of Atlantic Tuna			
Asmts in RAM 2010, 2021, 2016			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2010	384,115	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2010	0.637	
ERmsy	ERmsy-calc-ratio	2010	0.407	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	156,500	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	656,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.172	-	-
ER	ER-ratio	2010	0.176	-	-
TC	TC-MT	2010	164,000		
TL	TL-MT	2021	217,874	1	
TB/TBmsy	TBdivTBmsy-dimensionless	2021	2.017	]	
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2021	0.317		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2010	0.432		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







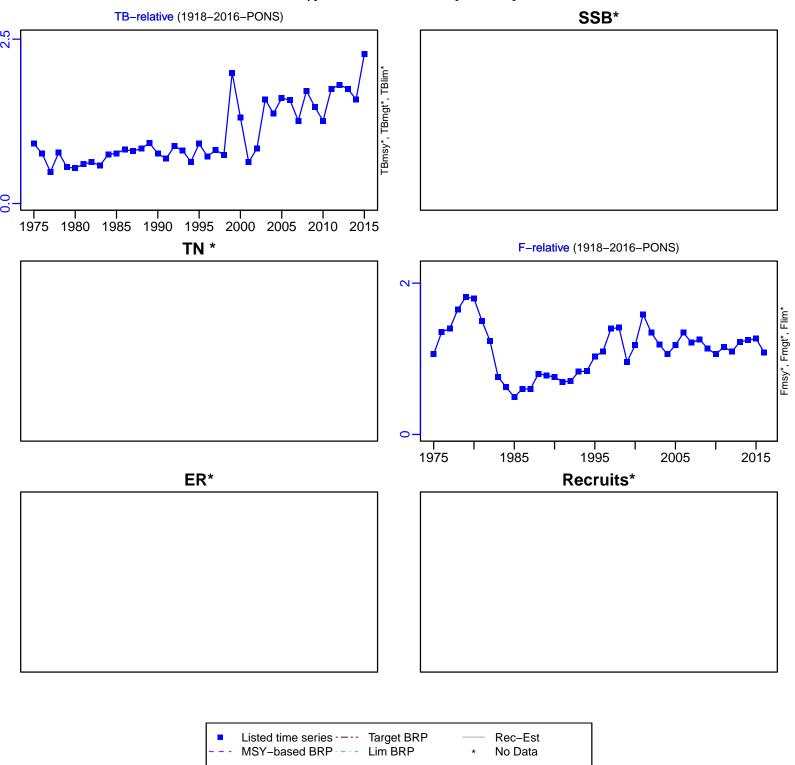
Metadata			
Scientific Name Katsuwonus pelamis			
Current Assess ID IATTC-SKJEPAC-1918-2016-PONS			
Area Eastern Pacific			
Management Authority Inter-American Tropical Tuna Commission			
Assessor	Inter-American Tropical Tuna Commission		
Asmts in RAM	2016		

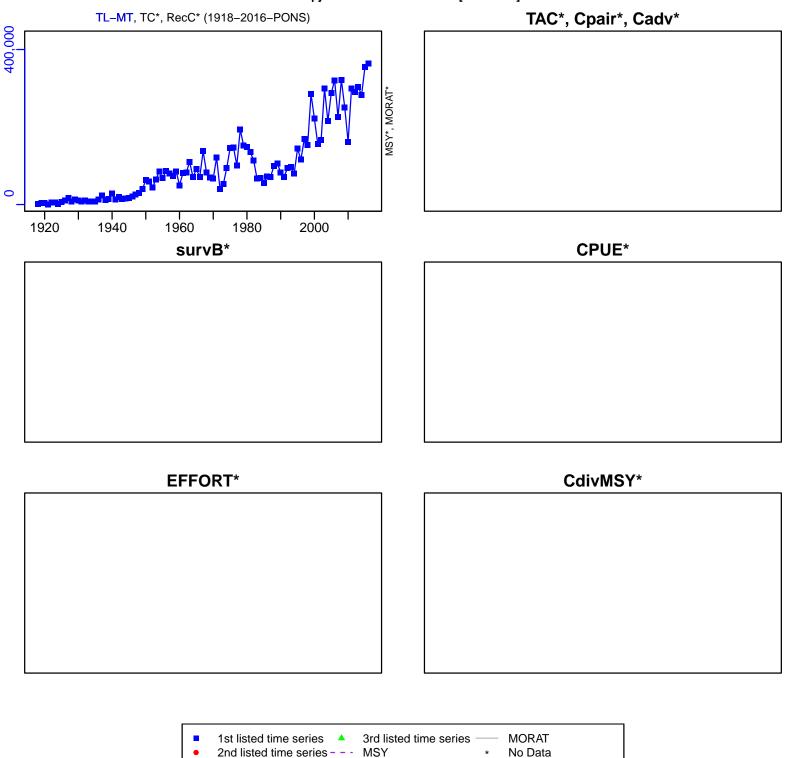
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-relative	2016	2.24	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2016	0.984	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	338,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MGT*
Production*

◆ Start Year ◆ End Year \* No Data

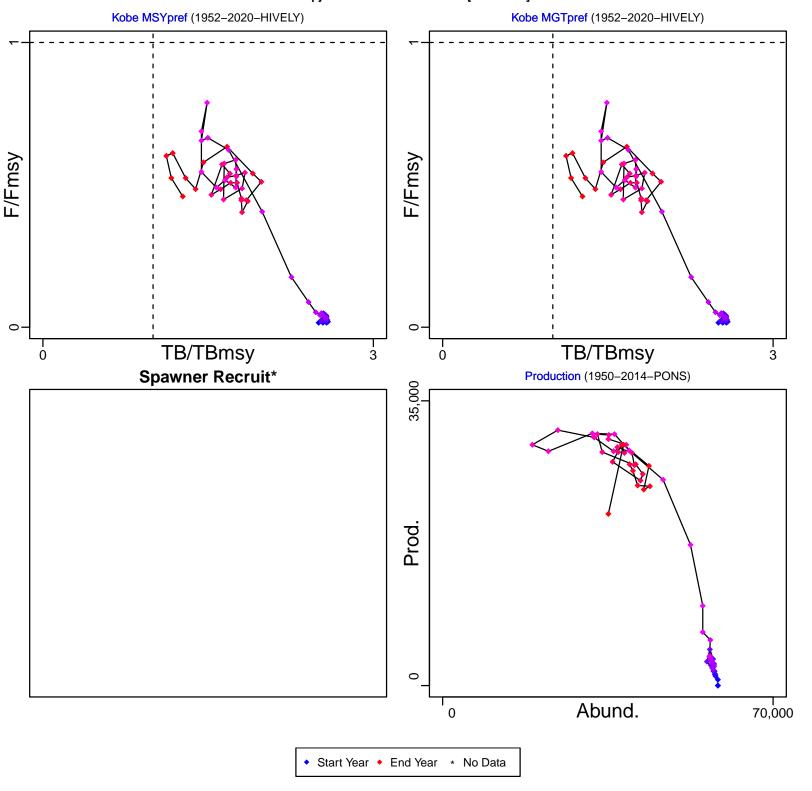


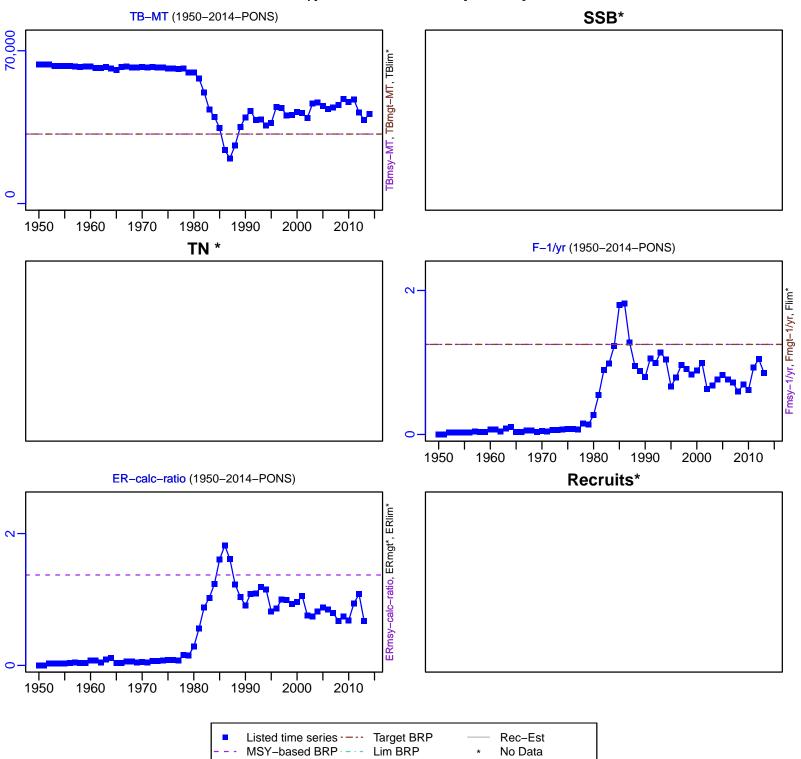


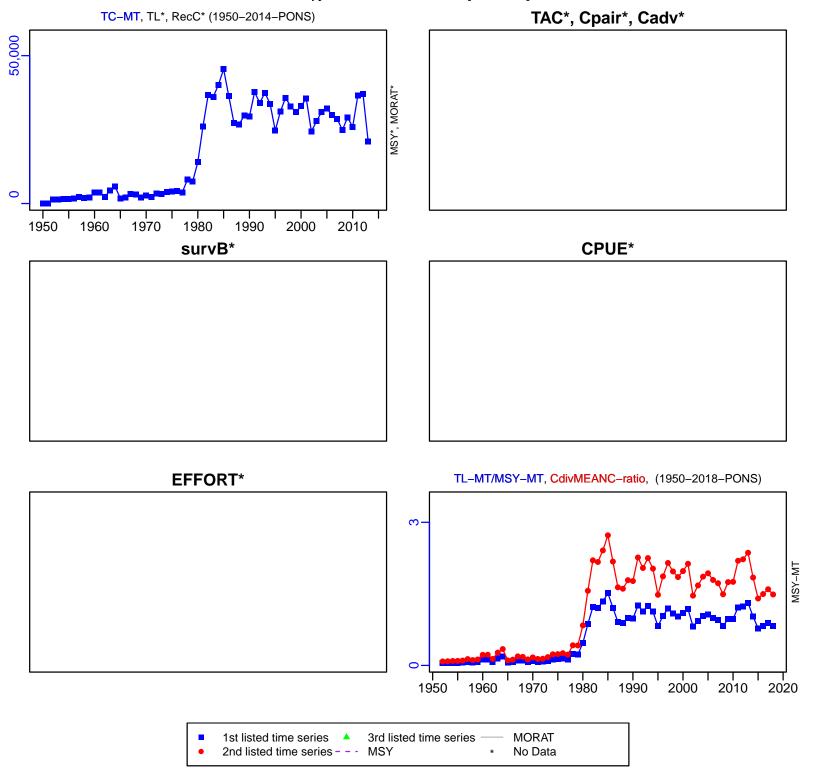
Metadata			
Scientific Name	Katsuwonus pelamis		
Current Assess ID ICCAT-SKJWATL-1952-2020-HIVELY			
Area Western Atlantic			
Management Authority International Commission for the Conservation of Atlantic Tuna			
Assessor International Commission for the Conservation of Atlantic Tuna			
Asmts in RAM	2014, 2018, 2020		

Reference Points				
Туре				
TBmsy	TBmsy-MT	2014	29,160	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2014	1.08	
ERmsy	ERmsy-calc-ratio	2014	1.084	
TBmgt	TBmgt-MT	2014	29,160	
SSBmgt	-	-	-	
Fmgt	Fmgt-1/yr	2014	1.08	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	31,000	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	37,600	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2014	0.74	-	-
ER	ER-calc-ratio	2014	0.53	-	-
TC	TC-MT	2014	18,600		
TL	TL-MT	2020	18,183		
TB/TBmsy	TBdivTBmsy-dimensionless	2020	1.27		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2020	0.459		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2014	0.489		
TB/TBmgt	TB-MT/TBmgt-MT	2014	1.289		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	0.685		
ER/ERmgt	-	-	-		







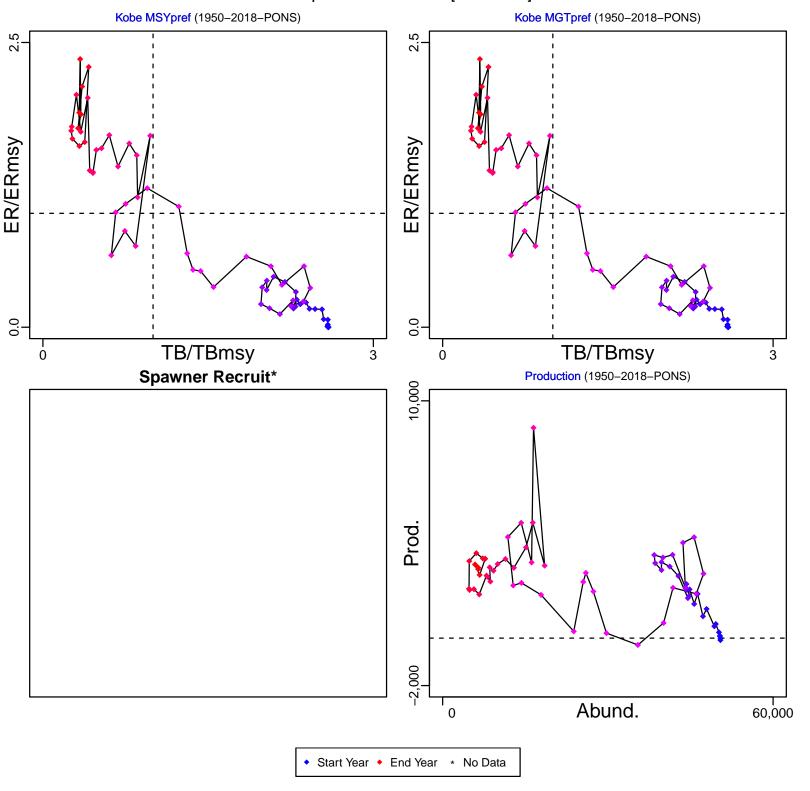
# Striped marlin Indian Ocean [STMARLINIO]

Metadata				
Scientific Name	Kajikia audax			
Current Assess ID	IOTC-STMARLINIO-1950-2018-PONS			
Area	Indian Ocean			
Management Authority	Indian Ocean Tuna Commission			
Assessor	Indian Ocean Tuna Commission			
Asmts in RAM	2014, 2018			

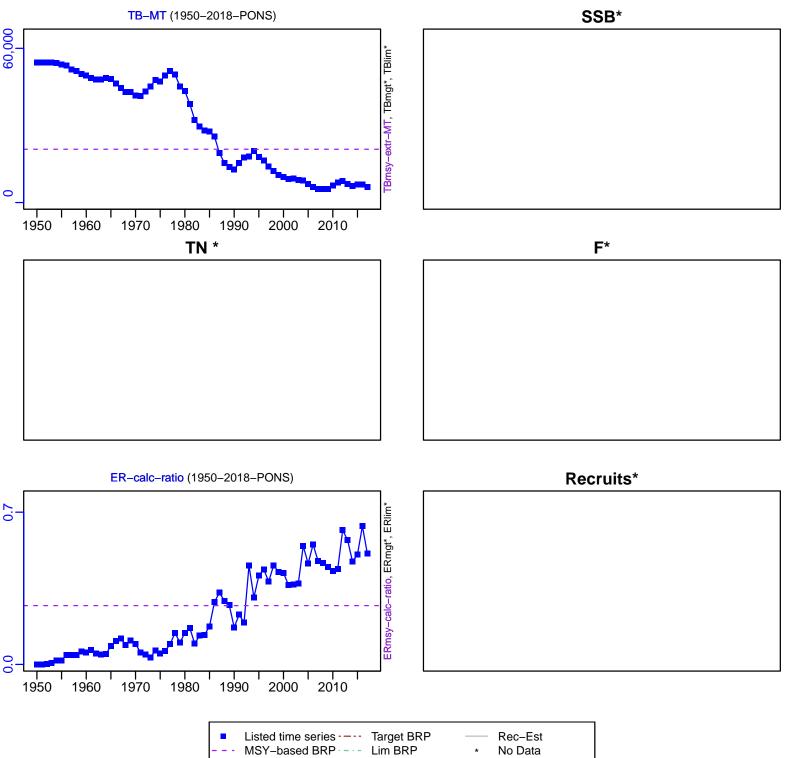
Reference Points					
Туре	ID	Asmt Year			
TBmsy	TBmsy-extr-MT	2018	19,169		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-calc-ratio	2018	0.247		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2014	61,450		
SSB0	-	-	-		
MSY	MSY-MT	2018	4730		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	5610	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2018	0.465	-	-
TC	TC-MT	2014	3990		
TL	TL-MT	2018	2604		
TB/TBmsy	TBdivTBmsy-dimensionless	2018	0.33		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2018	1.99		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2018	1.884		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

## Striped marlin Indian Ocean [STMARLINIO]

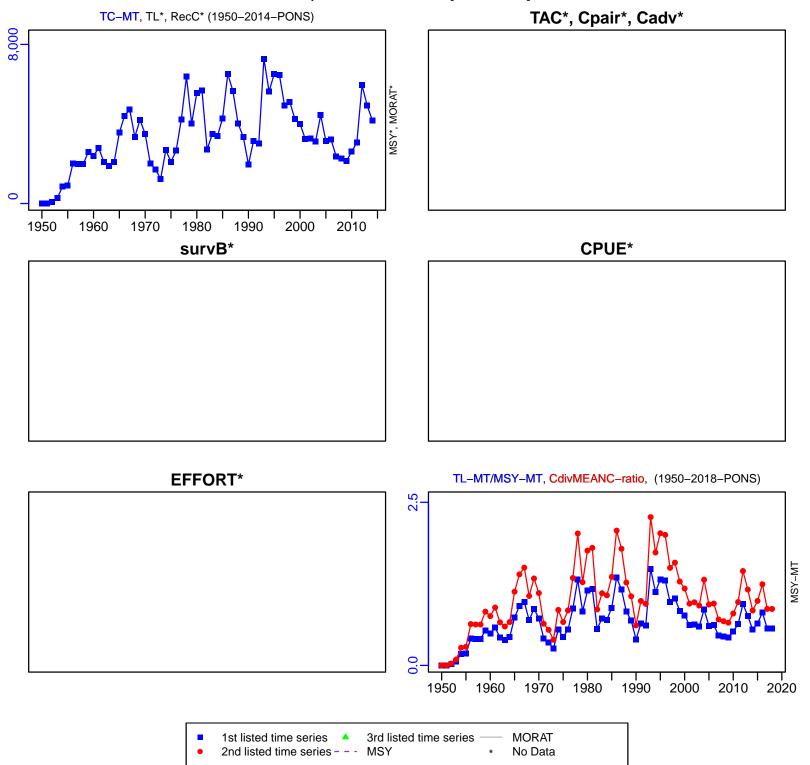


### Striped marlin Indian Ocean [STMARLINIO]



No Data

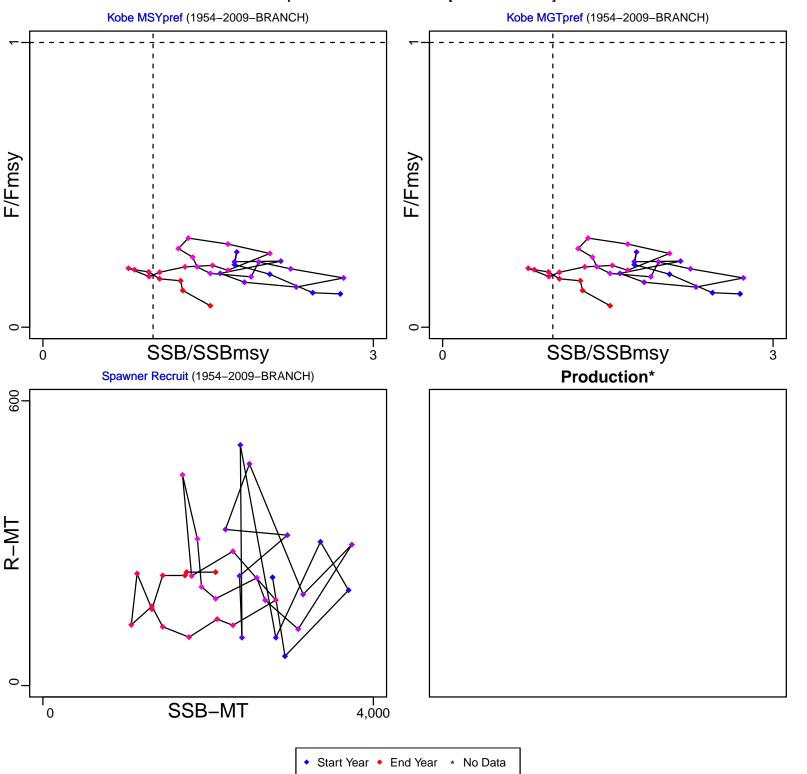
## Striped marlin Indian Ocean [STMARLINIO]

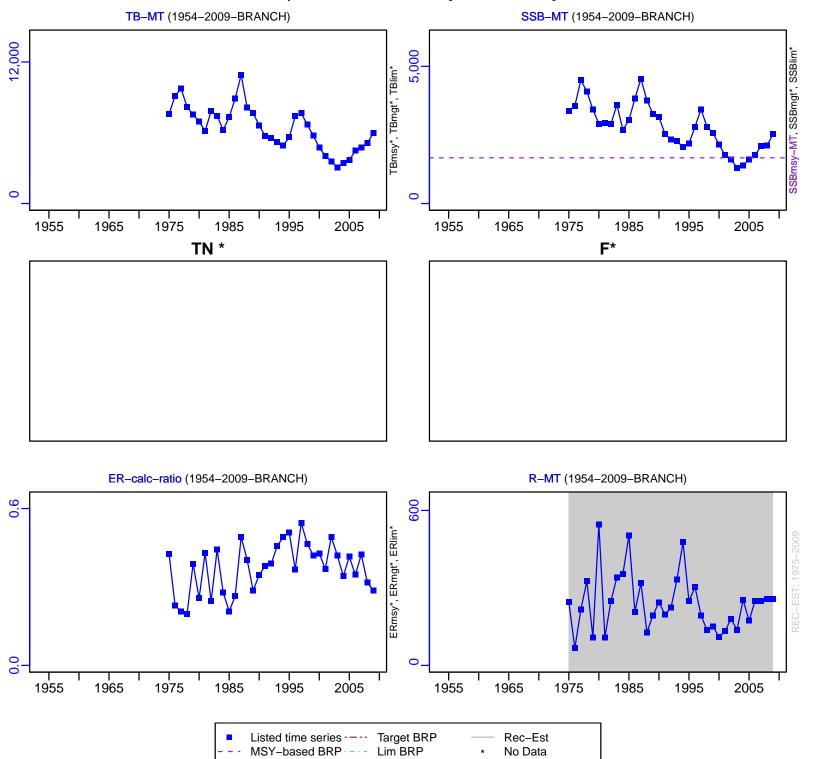


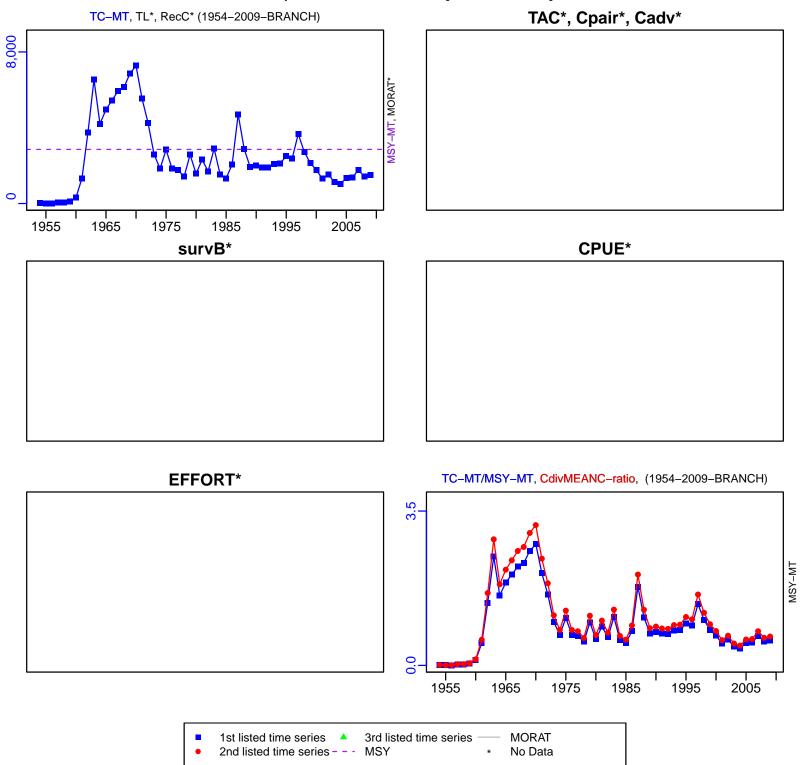
Metadata			
Scientific Name	Kajikia audax		
Current Assess ID	IATTC-STMARLINNEPAC-1954-2009-BRANCH		
Area	Northeast Pacific		
Management Authority	Inter-American Tropical Tuna Commission		
Assessor	Inter-American Tropical Tuna Commission		
Asmts in RAM	2009		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2009	1370	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2009	5556	
MSY	MSY-MT	2009	2596	
M	M-1/yr	2009	0.5	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	5060	-	1+
SSB	SSB-MT	2009	2090	Females	2+
TN	-	-	-	-	-
R	R-MT	2009	239	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2009	0.269	-	-
TC	TC-MT	2009	1360		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2009	1.52		
F/Fmsy	FdivFmsy-dimensionless	2009	0.075		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



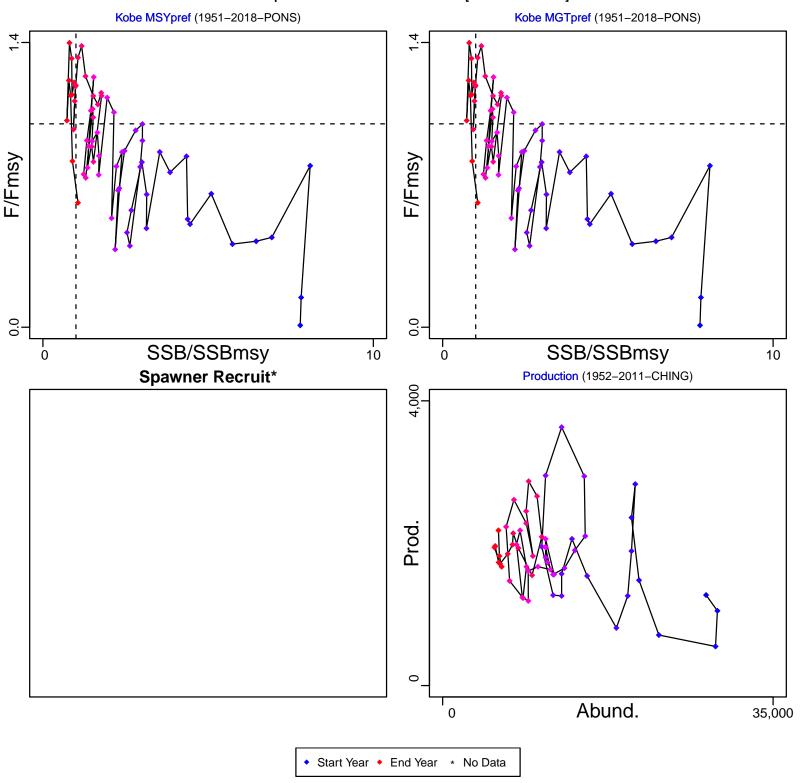


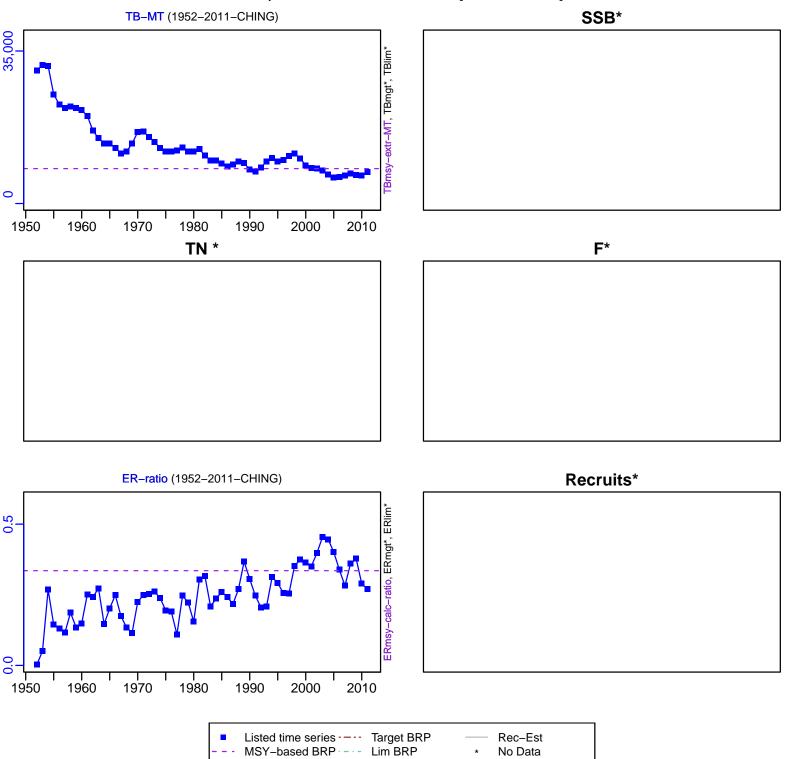


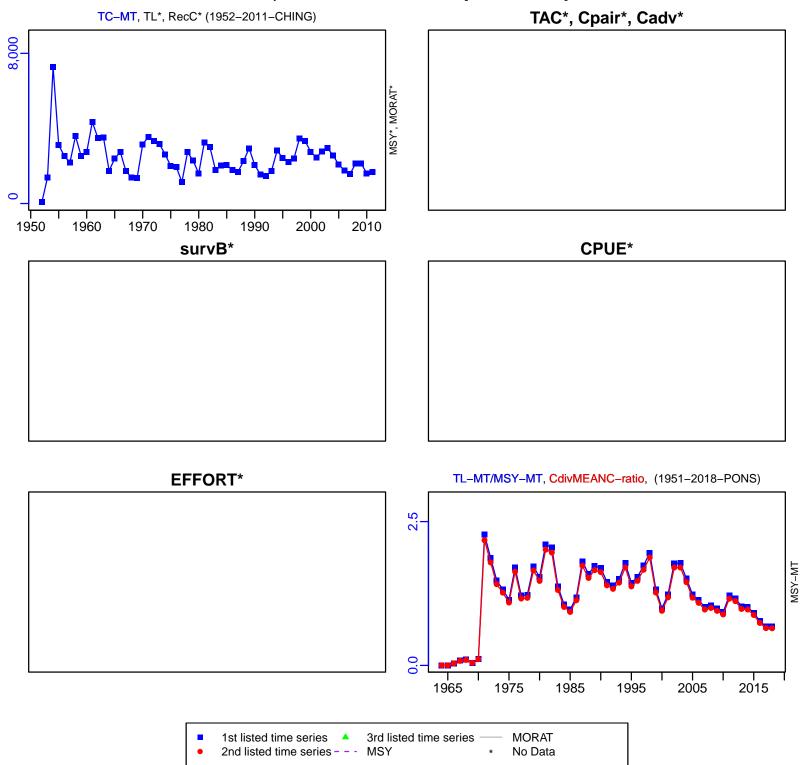
Metadata			
Scientific Name	Kajikia audax		
Current Assess ID	SPC-STMARLINSWPO-1951-2018-PONS		
Area Western Pacific Ocean			
Management Authority	Western and Central Pacific Fisheries Commission		
Assessor	Secretariat of the Pacific Community		
Asmts in RAM	2018, 2011		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2011	7326	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2011	0.226	
ERmsy	ERmsy-calc-ratio	2011	0.284	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	2672	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	6640	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2011	0.229	-	-
TC	TC-MT	2011	1520		
TL	TL-MT	2018	1552	1	
TB/TBmsy	TBdivTBmsy-dimensionless	2011	0.91		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	1.062		
F/Fmsy	FdivFmsy-dimensionless	2018	0.612		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2011	0.806		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



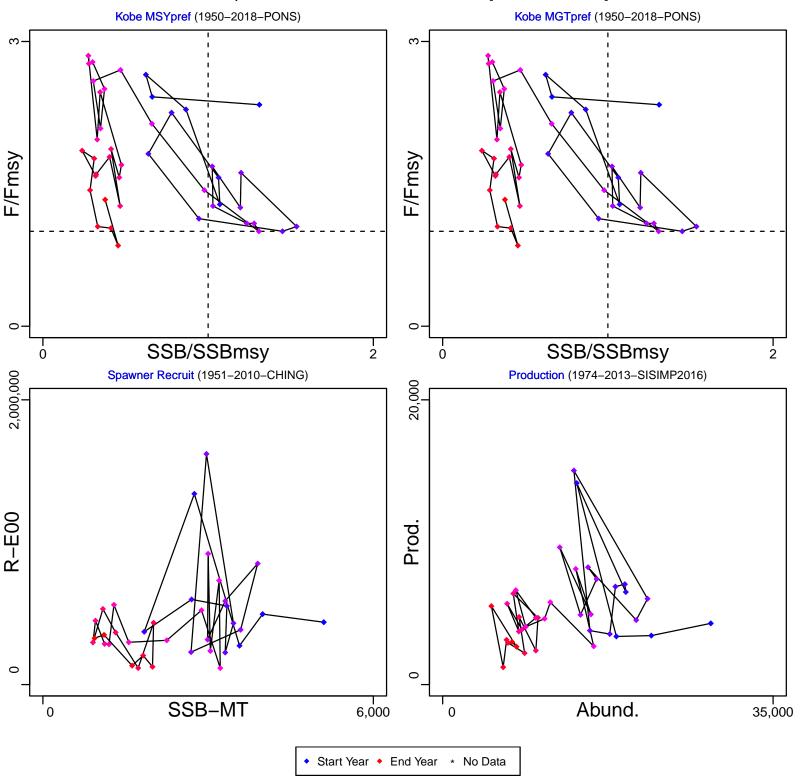


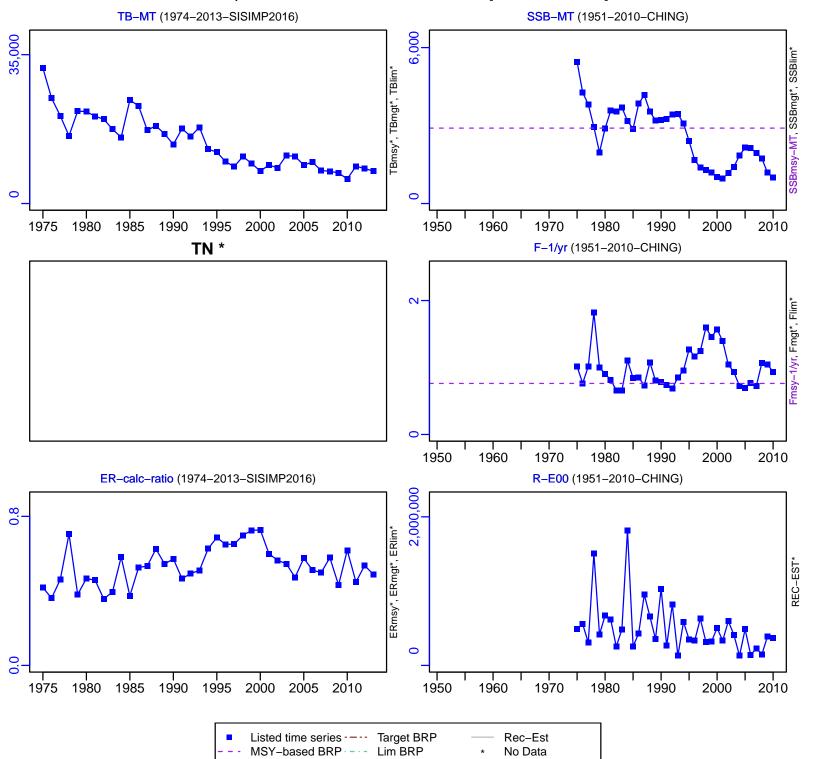


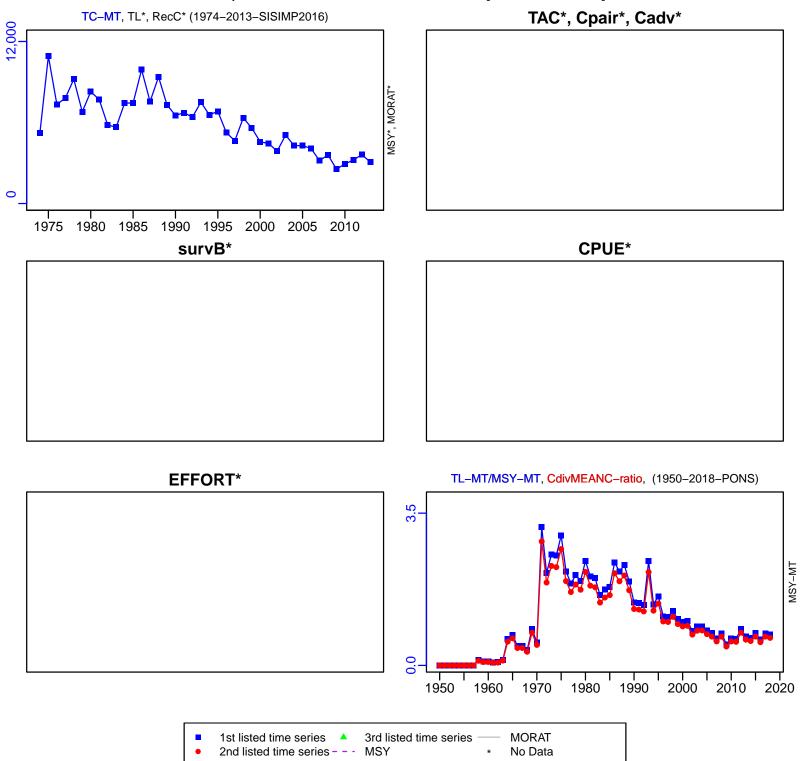
Metadata			
Scientific Name	Kajikia audax		
Current Assess ID	ISC-STMARLINWCNPAC-1950-2018-PONS		
Area Western and Central North Pacific			
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Assessor	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Asmts in RAM	2018, 2010, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2010	16,721	
SSBmsy	SSBmsy-MT	2013	2819	
Fmsy	Fmsy-1/yr	2010	0.612	
ERmsy	ERmsy-ratio	2010	0.386	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2010	43,468	
SSB0	SSB0 SSB0-MT		18,507	
MSY	MSY-MT	2018	4946	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2013	2819	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	6820	-	1+
SSB	SSB-MT	2010	938	-	-
TN	-	-	-	-	-
R	R-E00	2010	326,000	-	-
F	F-1/yr	2010	0.75	-	-
ER	ER-calc-ratio	2013	0.437	-	-
TC	TC-MT	2013	2980		
TL	TL-MT	2018	3188		
TB/TBmsy	TBdivTBmsy-dimensionless	2010	0.35		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	0.377		
F/Fmsy	FdivFmsy-dimensionless	2018	1.761		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	1.244		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



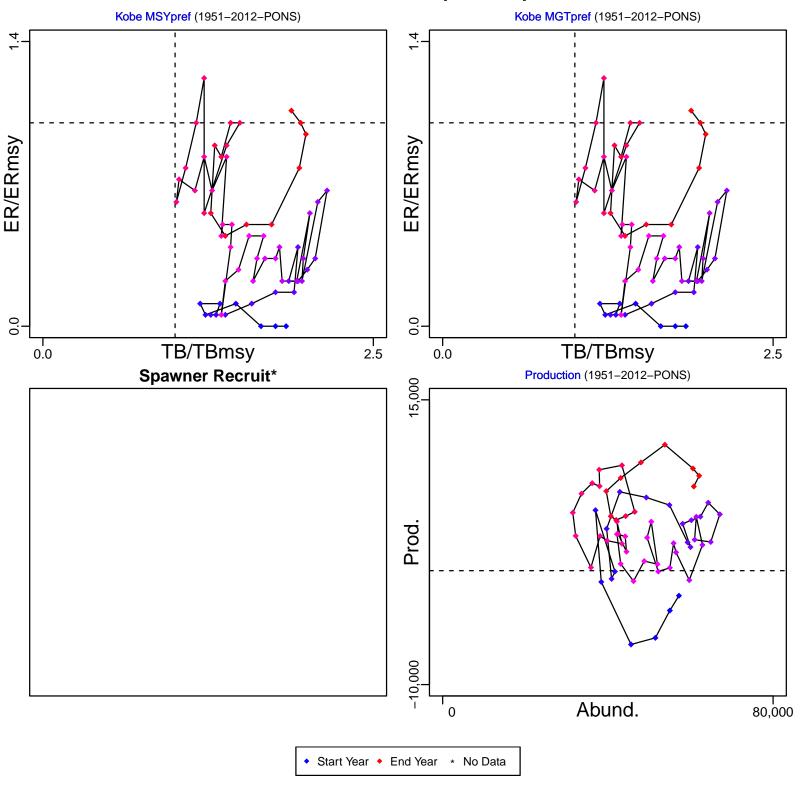


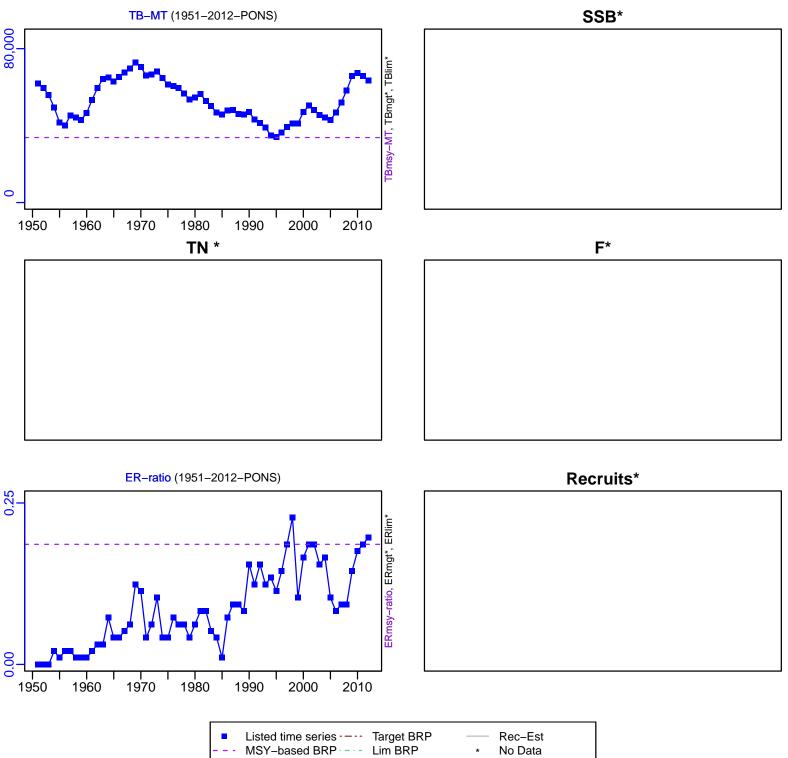


Metadata			
Scientific Name	Xiphias gladius		
Current Assess ID	IATTC-SWORDEPAC-1951-2012-PONS		
Area Eastern Pacific			
Management Authority	Inter-American Tropical Tuna Commission		
Assessor	Inter-American Tropical Tuna Commission		
Asmts in RAM	2012		

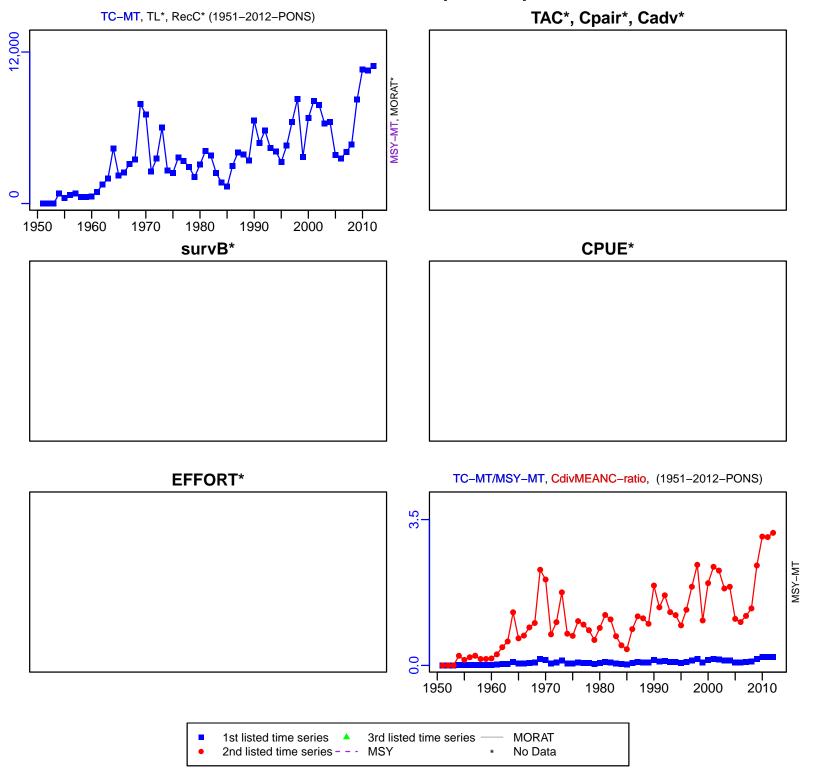
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2012	31,170	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2012	0.18	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2012	57,210	
SSB0	-	-	-	
MSY	MSY-MT	2012	54,900	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	58,600	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0.19	-	-
TC	TC-MT	2012	9910		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	1.88		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2012	1.06		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





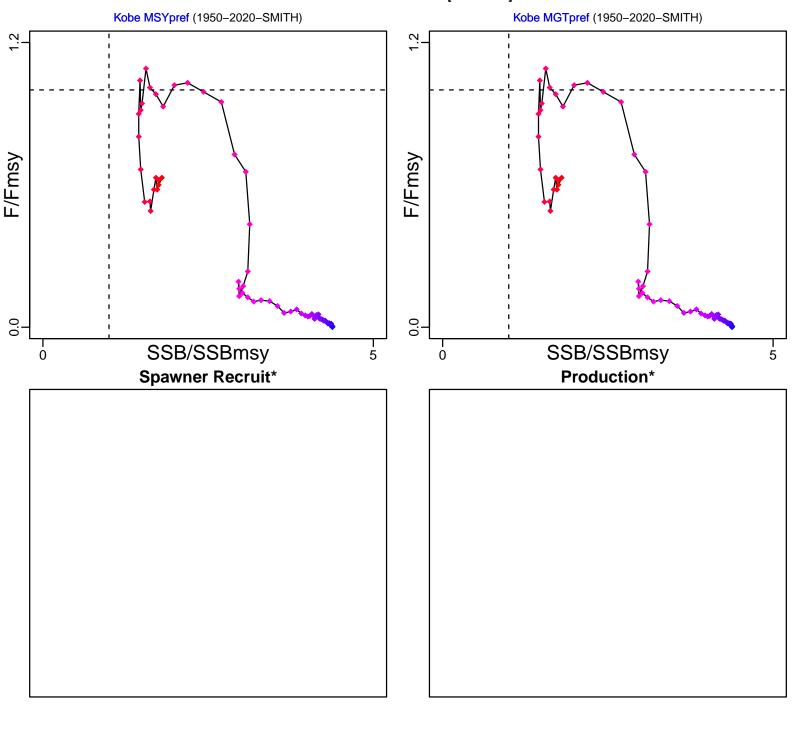
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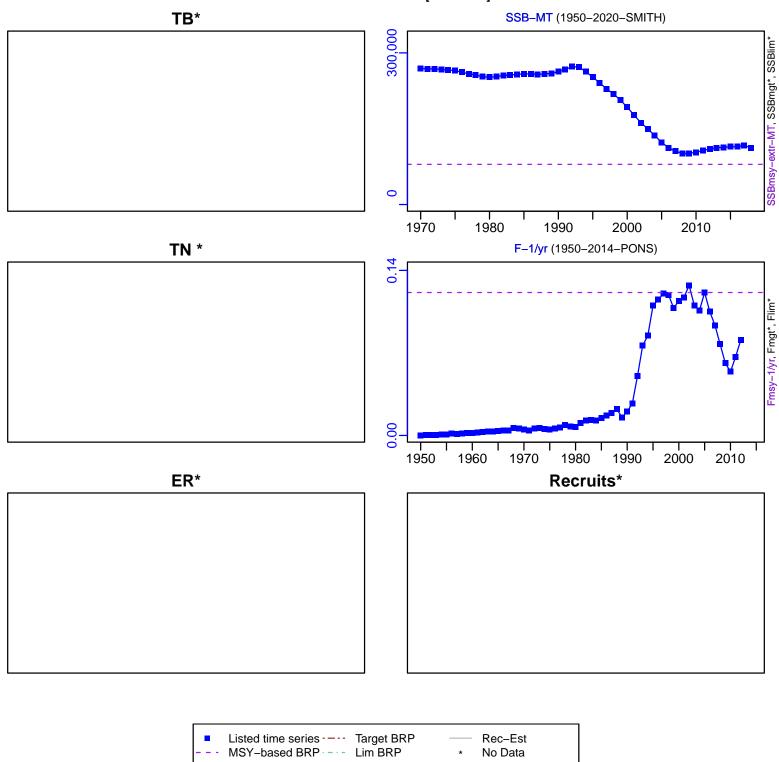
Metadata			
Scientific Name	Xiphias gladius		
Current Assess ID	IOTC-SWORDIO-1950-2020-SMITH		
Area	Indian Ocean		
Management Authority	Indian Ocean Tuna Commission		
Assessor	Indian Ocean Tuna Commission		
Asmts in RAM	2014, 2018, 2020		

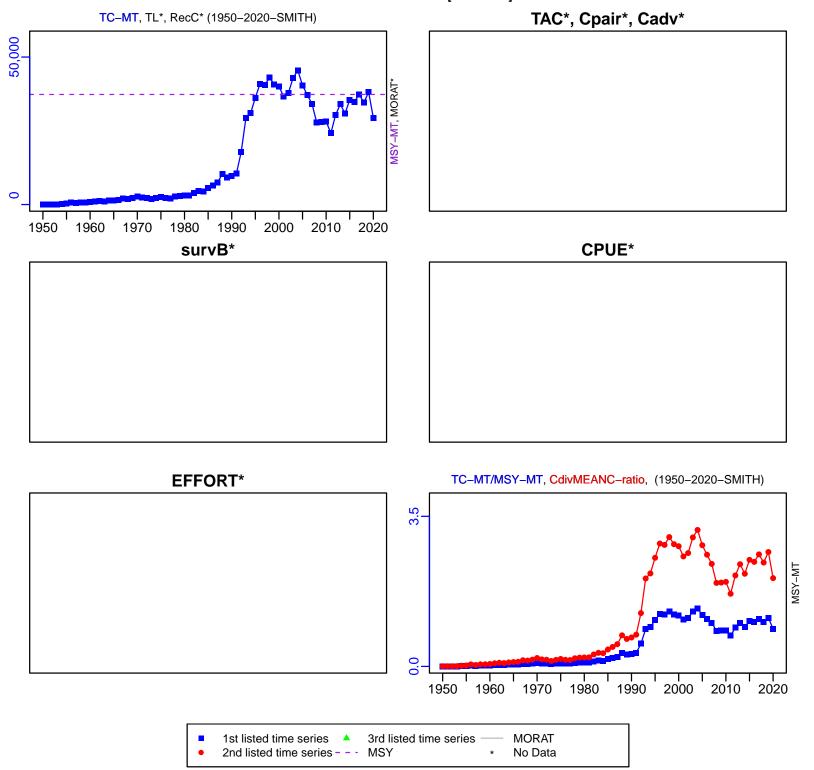
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-extr-MT	2020	72,256	
Fmsy	Fmsy-1/yr	2014	0.12	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2020	33,000	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2020	102,000	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2014	0.08	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	26,005		
TL	TL-MT	2018	30,844		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	1.75		
F/Fmsy	FdivFmsy-dimensionless	2020	0.6		
ER/ERmsy	1	-	-		
TB/TBmgt	1	-	-		
SSB/SSBmgt	1	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data

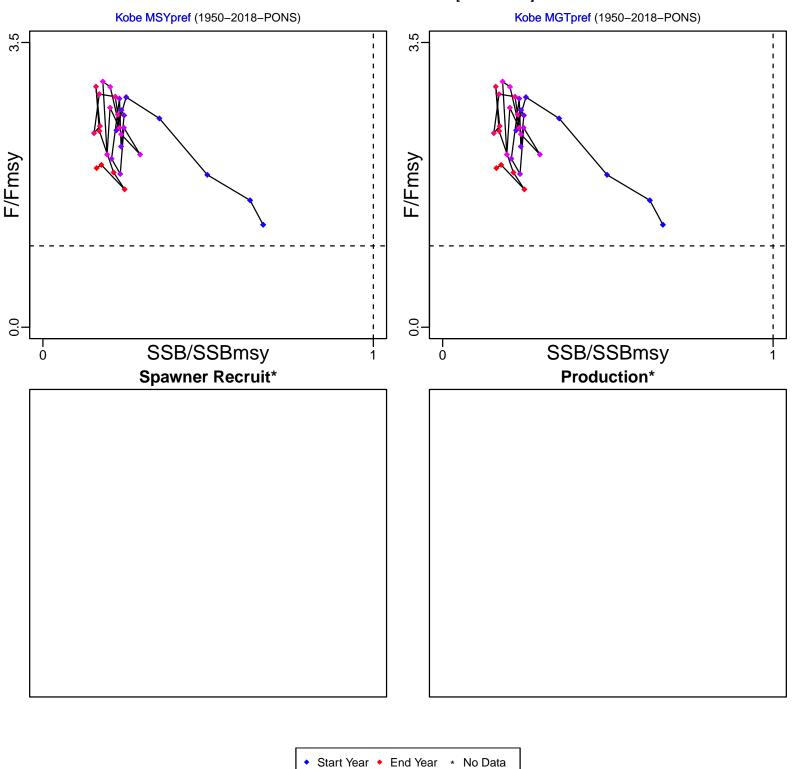


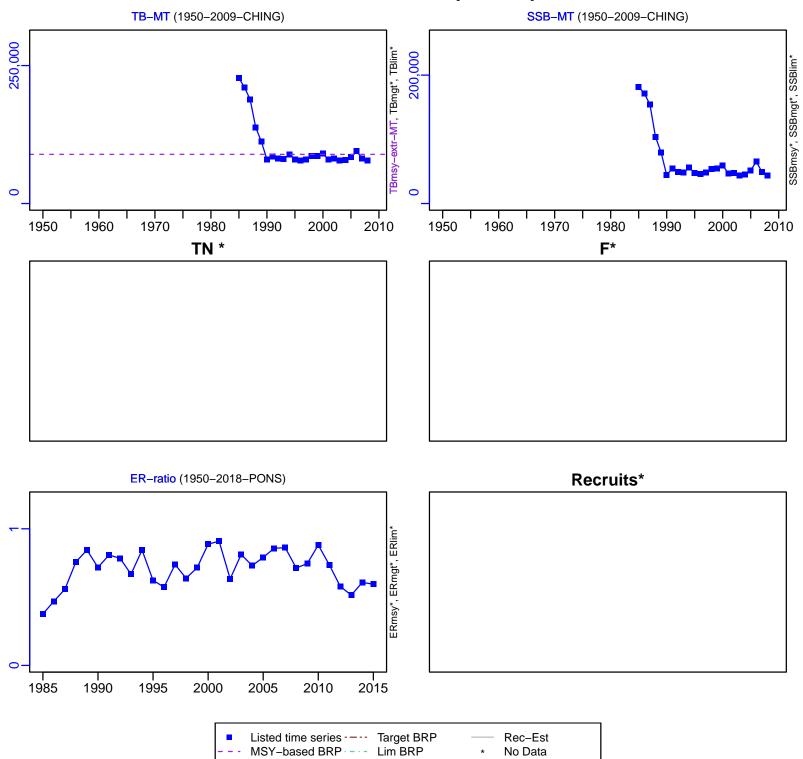


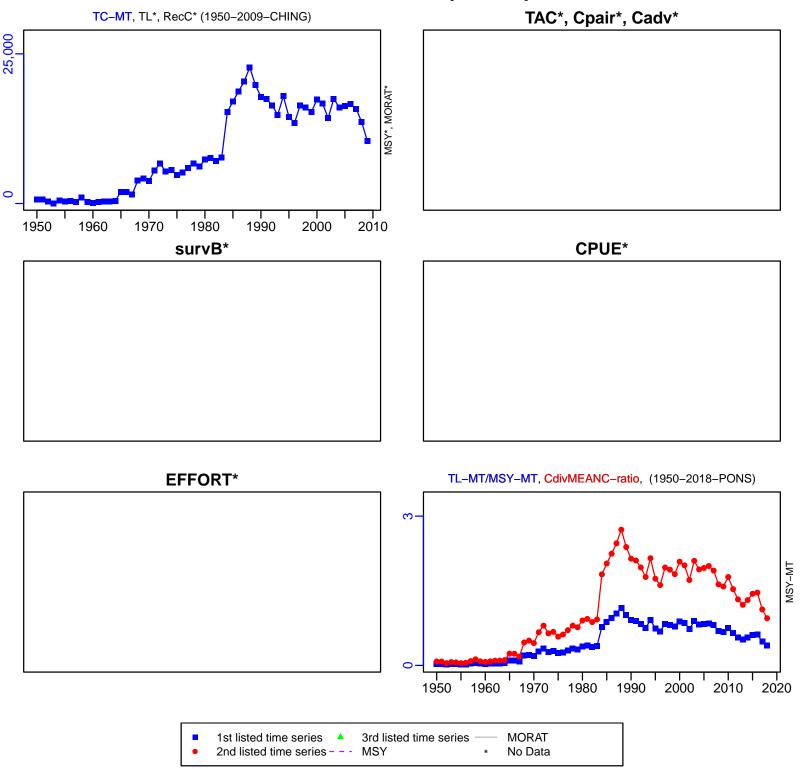
Metadata			
Scientific Name	Xiphias gladius		
Current Assess ID	ICCAT-SWORDMED-1950-2018-PONS		
Area	Mediterranean Sea		
Management Authority	International Commission for the Conservation of Atlantic Tunas		
Assessor	International Commission for the Conservation of Atlantic Tunas		
Asmts in RAM	2009, 2018		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2009	73,728	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2009	0.26	
ERmsy	ERmsy-calc-ratio	2009	0.198	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	19,683	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	64,600	-	-
SSB	SSB-MT	2009	33,600	-	3+
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2018	0.487	-	-
TC	TC-MT	2009	9340		
TL	TL-MT	2018	7079		
TB/TBmsy	TBdivTBmsy-dimensionless	2009	0.96		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	0.163		
F/Fmsy	FdivFmsy-dimensionless	2018	1.956		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2009	0.954		
TB/TBmgt	-	-	-		
SSB/SSBmgt	1	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



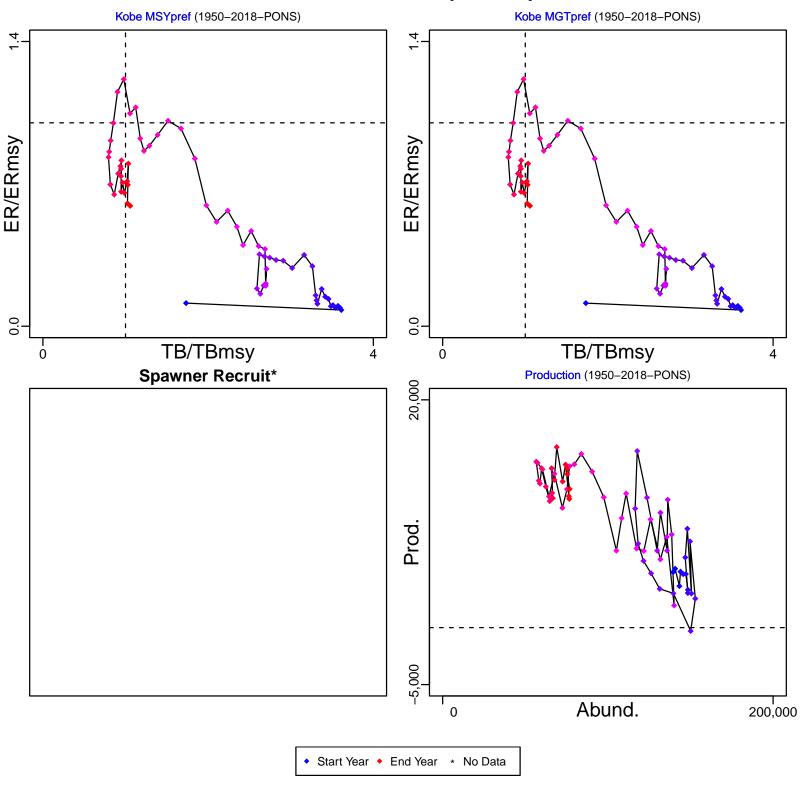


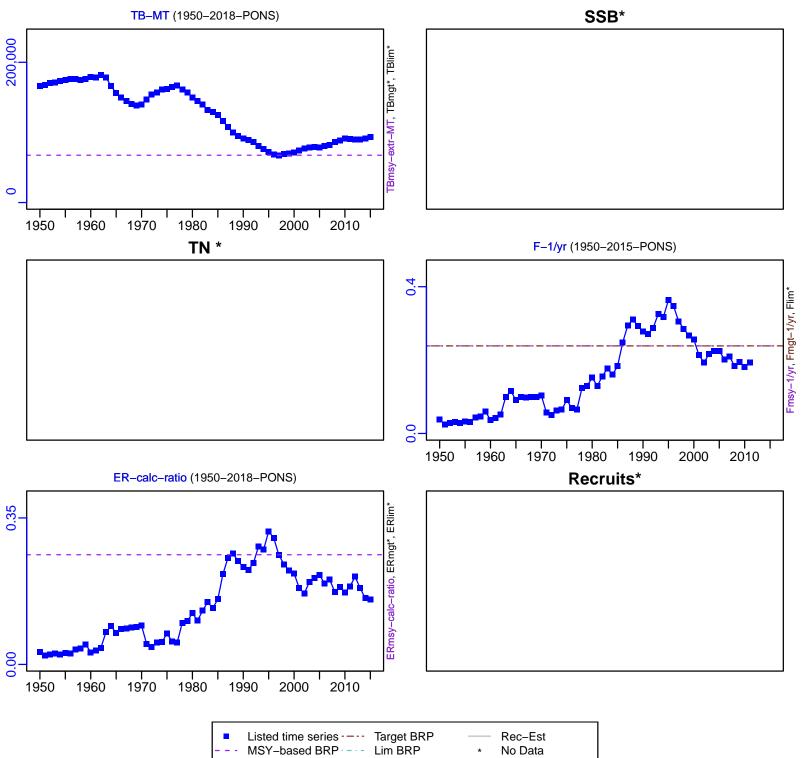


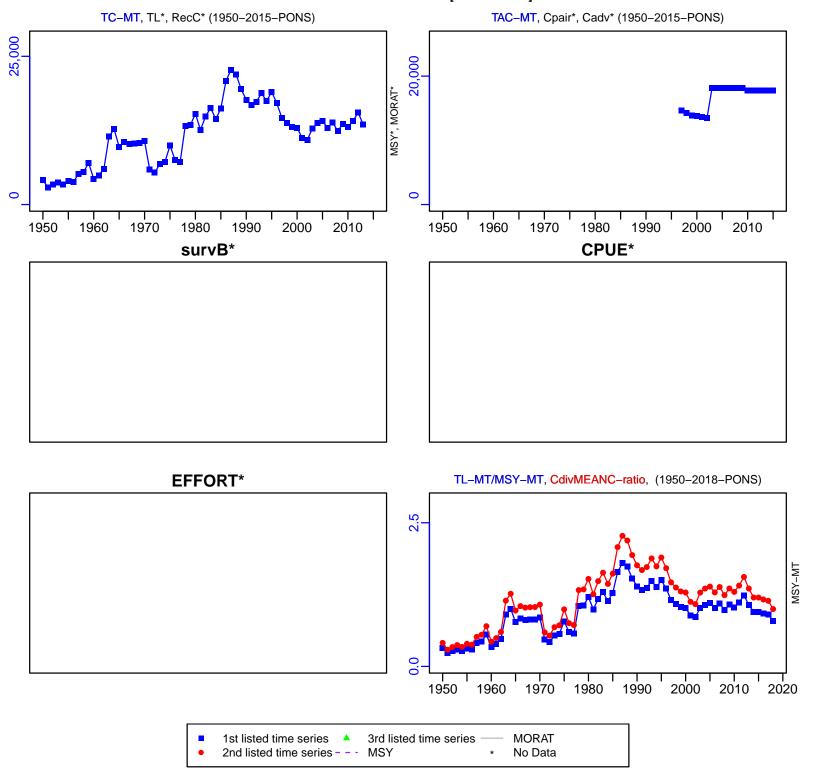
Metadata			
Scientific Name	Xiphias gladius		
Current Assess ID	ICCAT-SWORDNATL-1950-2018-PONS		
Area	Northern Atlantic		
Management Authority	International Commission for the Conservation of Atlantic Tunas		
Assessor	International Commission for the Conservation of Atlantic Tunas		
Asmts in RAM	2011, 2015, 2018		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-extr-MT	2018	56,741		
SSBmsy	-	-	-		
Fmsy	Fmsy-1/yr	2015	0.21		
ERmsy	ERmsy-calc-ratio	2018	0.23		
TBmgt	TBmgt-MT	2015	65,060		
SSBmgt	-	-	-		
Fmgt	Fmgt-1/yr	2015	0.21		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2018	13,059		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	78,344	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2015	0.17	-	-
ER	ER-calc-ratio	2018	0.136	-	-
TC	TC-MT	2015	12,000		
TL	TL-MT	2018	8893		
TB/TBmsy	TBdivTBmsy-dimensionless	2018	1.057		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2018	0.778		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2018	0.592		
TB/TBmgt	TB-MT/TBmgt-MT	2015	1.136		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.81		
ER/ERmgt	-	-	-		



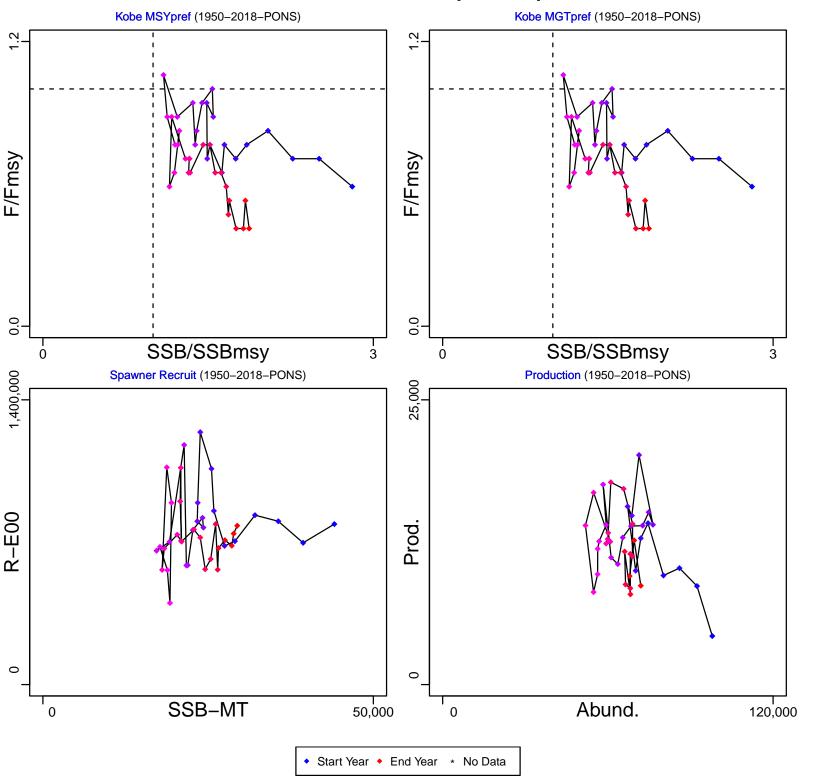


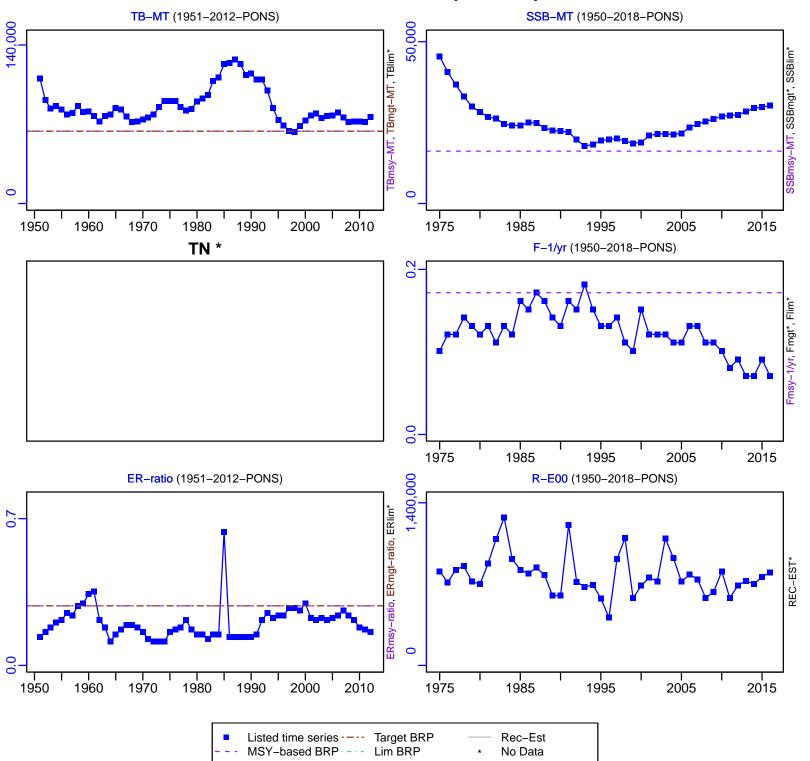


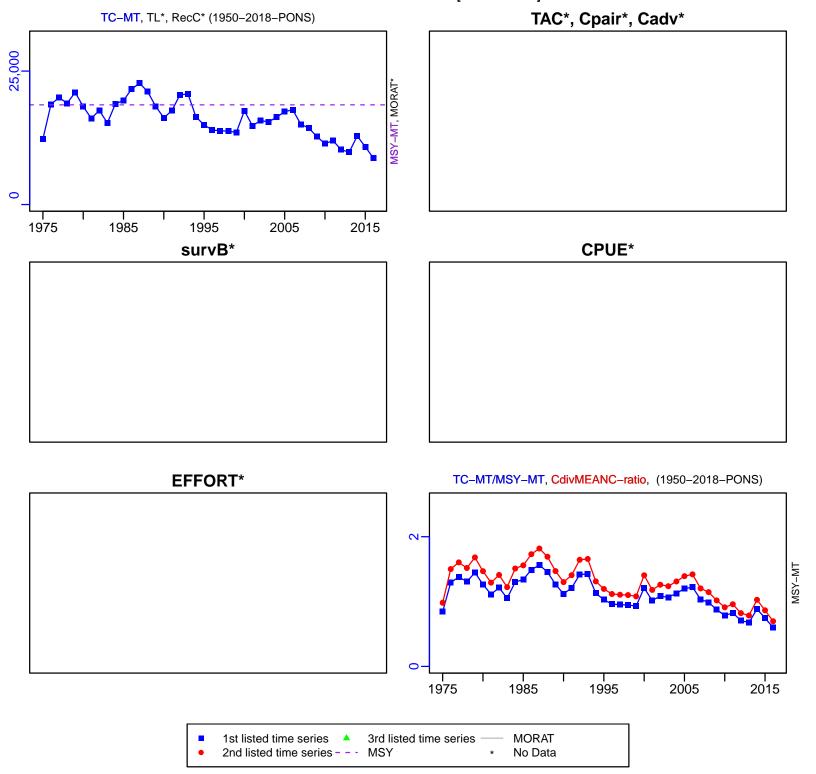
Metadata			
Scientific Name	Xiphias gladius		
Current Assess ID ISC-SWORDNPAC-1950-2018-PONS			
Area North Pacific Ocean			
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Assessor	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Asmts in RAM	2018, 2012		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2012	60,720	
SSBmsy	SSBmsy-MT	2018	15,702	
Fmsy	Fmsy-1/yr	2018	0.17	
ERmsy	ERmsy-ratio	2012	0.25	
TBmgt	TBmgt-MT	2012	60,720	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2012	0.25	
TB0	TB0-MT	2012	104,600	
SSB0	-	-	-	
MSY	MSY-MT	2018	14,941	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	71,979	-	1+
SSB	SSB-MT	2018	29,404	Females	-
TN	-	-	-	-	-
R	R-E00	2018	781,000	-	0
F	F-1/yr	2018	0.07	-	-
ER	ER-calc-ratio	2018	0.097	-	-
TC	TC-MT	2018	6969		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	1.19		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	1.873		
F/Fmsy	FdivFmsy-dimensionless	2018	0.412		
ER/ERmsy	ERdivERmsy-dimensionless	2012	0.56		
TB/TBmgt	TB-MT/TBmgt-MT	2012	1.194		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







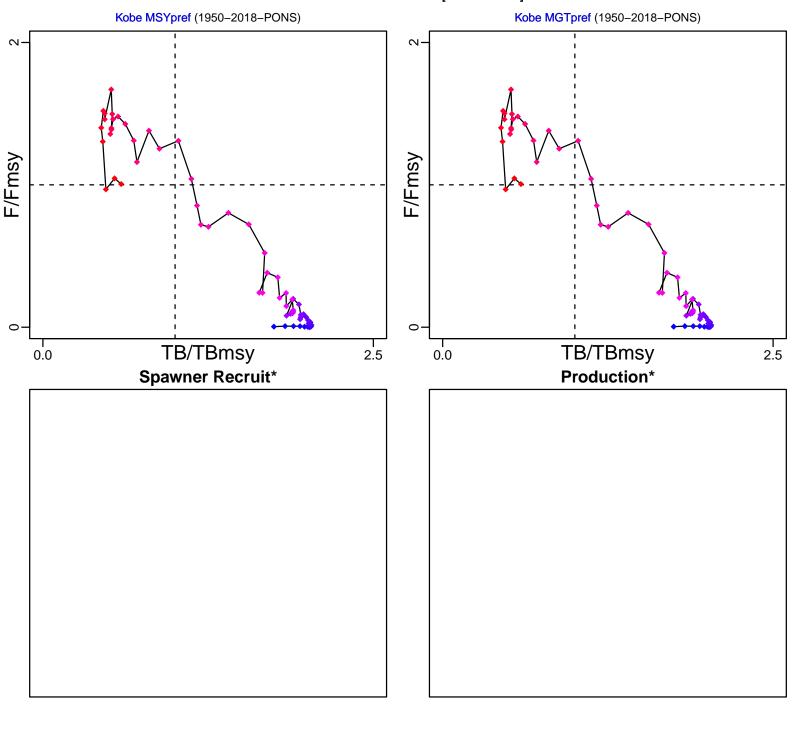
# **Swordfish South Atlantic [SWORDSATL]**

Metadata				
Scientific Name	Xiphias gladius			
Current Assess ID	ICCAT-SWORDSATL-1950-2018-PONS			
Area	South Atlantic			
Management Authority	International Commission for the Conservation of Atlantic Tunas			
Assessor	International Commission for the Conservation of Atlantic Tunas			
Asmts in RAM	2015, 2018			

Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-MT	2015	58,360			
SSBmsy	-	-	-			
Fmsy	Fmsy-1/yr	2015	0.24			
ERmsy	ERmsy-calc-ratio	2015	0.243			
TBmgt	TBmgt-MT	2015	58,360			
SSBmgt	-	-	-			
Fmgt	Fmgt-1/yr	2015	0.24			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT	2018	14,570			
М	-	-	-			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

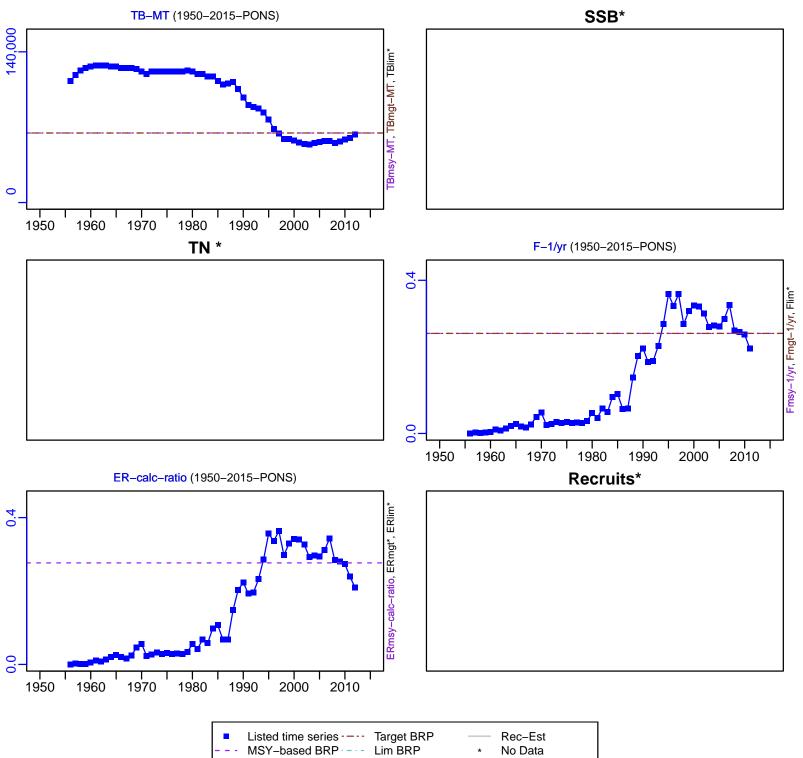
Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2015	57,000	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2015	0.204	-	-	
ER	ER-calc-ratio	2015	0.184	-	-	
TC	TC-MT	2015	7820			
TL	TL-MT	2018	10,405			
TB/TBmsy	TBdivTBmsy-dimensionless	2018	0.592			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2018	1.006			
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	0.757			
TB/TBmgt	TB-MT/TBmgt-MT	2015	0.977	1		
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.85			
ER/ERmgt	-	-	-			

## Swordfish South Atlantic [SWORDSATL]

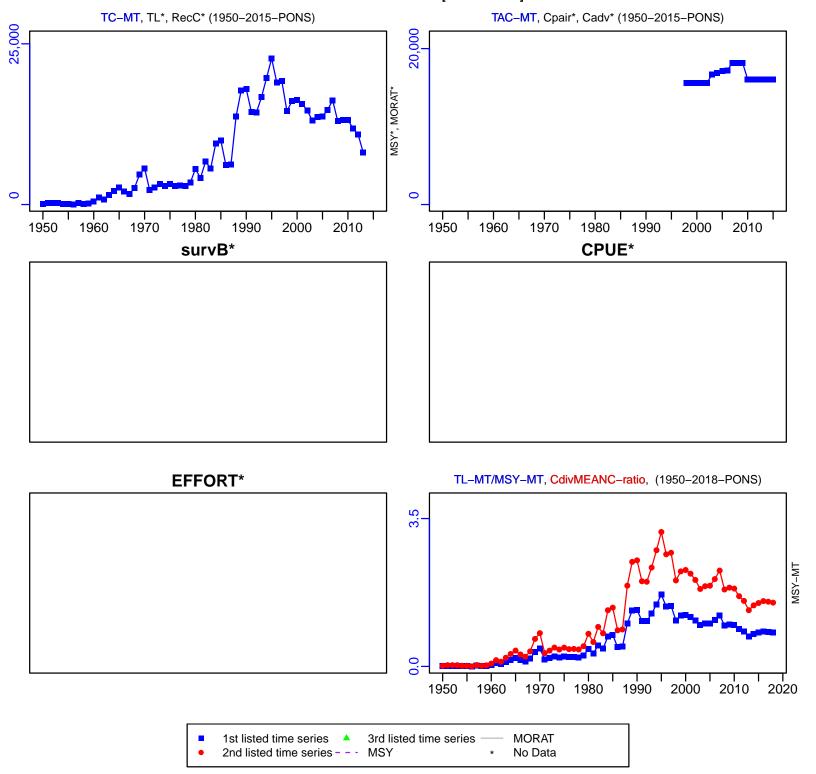


Start Year • End Year \* No Data

#### Swordfish South Atlantic [SWORDSATL]



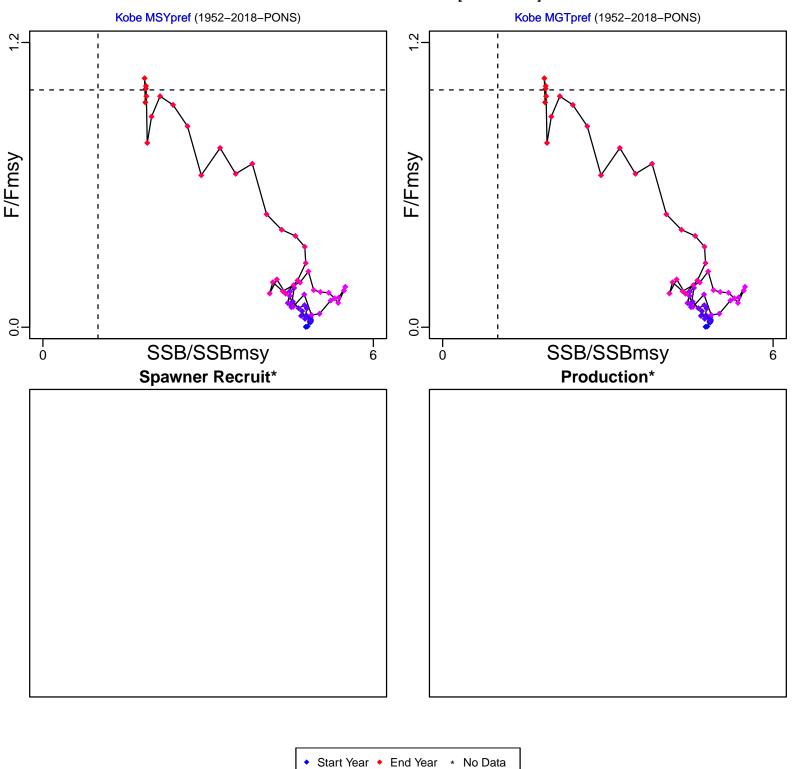
#### **Swordfish South Atlantic [SWORDSATL]**



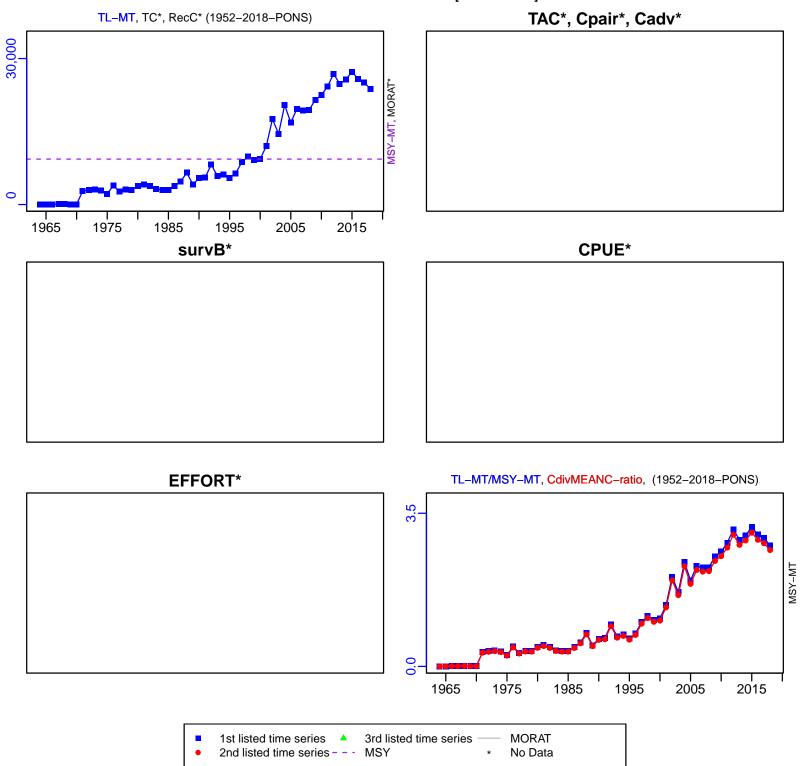
Metadata			
Scientific Name	Xiphias gladius		
Current Assess ID ISC-SWORDSPAC-1952-2018-PONS			
Area South Pacific Ocean			
Management Authority International Scientific Committee for Tuna and Tuna-like Specin the North Pacific Ocean			
Assessor International Scientific Committee for Tuna and Tuna-like Specin the North Pacific Ocean			
Asmts in RAM	2018		

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	8172	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	20,774		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	1.859		
F/Fmsy	FdivFmsy-dimensionless	2018	0.948		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	J L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

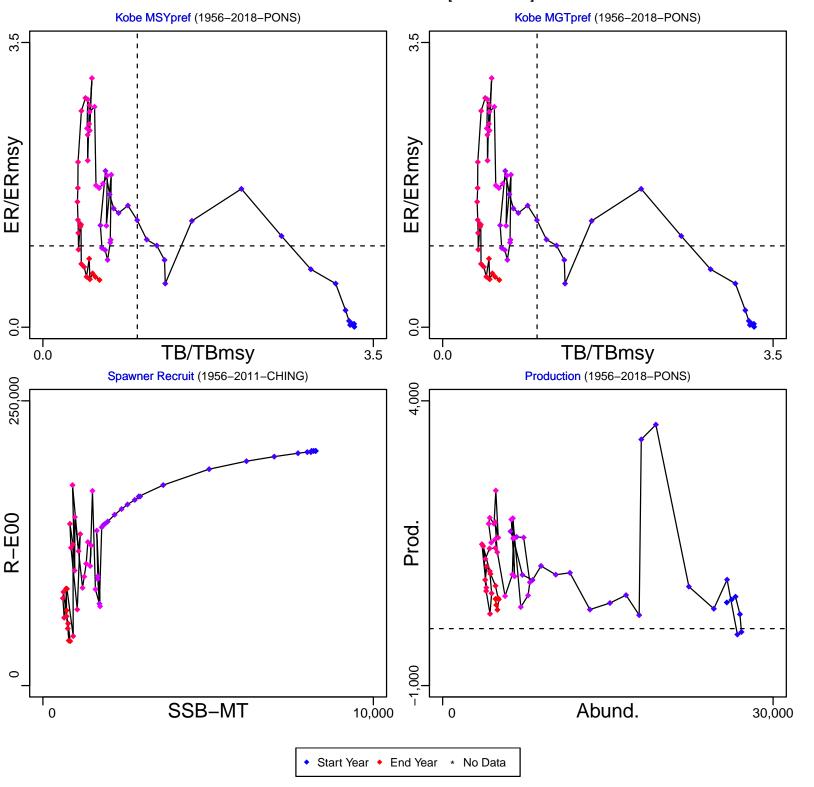


# White marlin Atlantic Ocean [WMARLINATL]

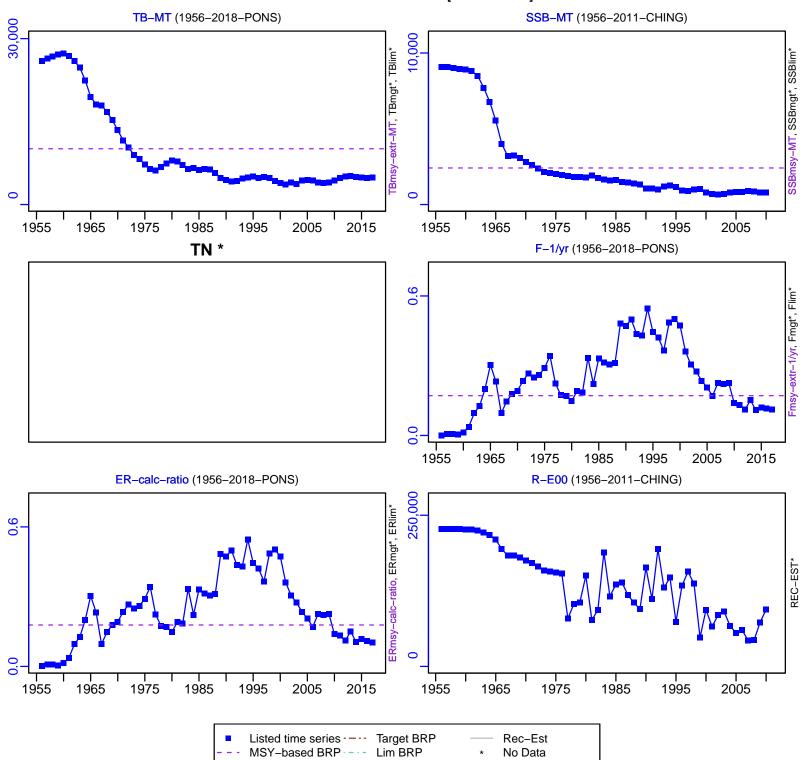
Metadata			
Scientific Name	Tetrapturus albidus		
Current Assess ID	ICCAT-WMARLINATL-1956-2018-PONS		
Area Atlantic Ocean			
Management Authority	International Commission for the Conservation of Atlantic Tunas		
Assessor International Commission for the Conservation of Atlantic Tuna			
Asmts in RAM	2011, 2018		

	Reference Points			
Туре				
TBmsy	TBmsy-extr-MT	2018	10,031	
SSBmsy	SSBmsy-MT	2011	2191	
Fmsy	Fmsy-extr-1/yr	2018	0.143	
ERmsy	ERmsy-calc-ratio	2018	0.149	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	36,234	
SSB0	-	-	-	
MSY	MSY-MT	2018	1495	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

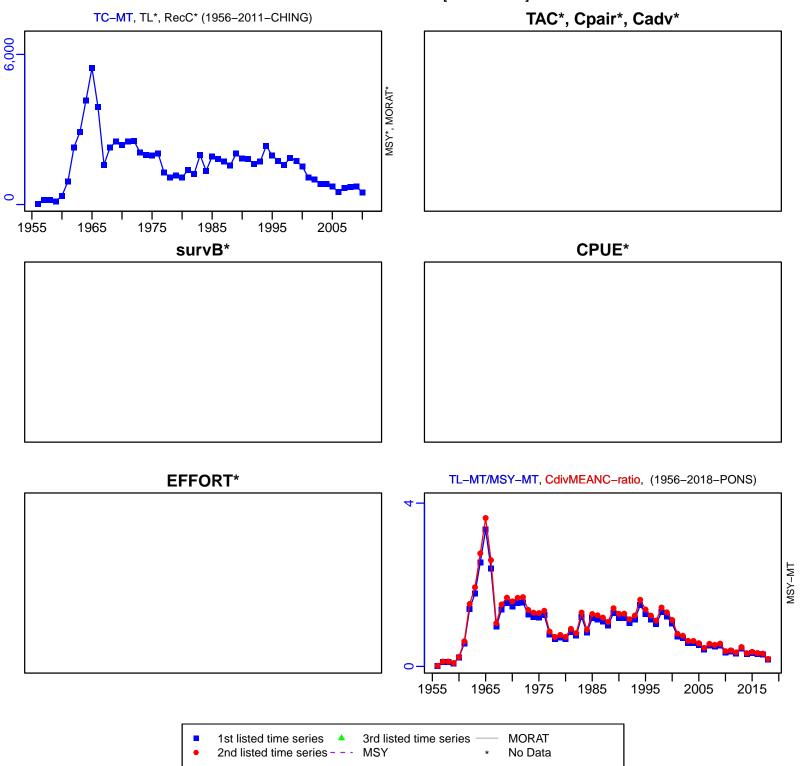
Time Series					
Туре	e ID Asmt Year Curr Value		Sex	Age	
ТВ	TB-MT	2018	4878	-	-
SSB	SSB-MT	2011	706	-	-
TN	-	-	-	-	-
R	R-E00	2011	85,200	-	-
F	F-1/yr	2018	0.094	-	-
ER	ER-calc-ratio	2018	0.087	-	-
TC	TC-MT	2011	434		
TL	TL-MT	2018	247		
TB/TBmsy	TBdivTBmsy-dimensionless	2018	0.6		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.322		
F/Fmsy	FdivFmsy-dimensionless	2018	0.667		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2018	0.581		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### White marlin Atlantic Ocean [WMARLINATL]



## White marlin Atlantic Ocean [WMARLINATL]

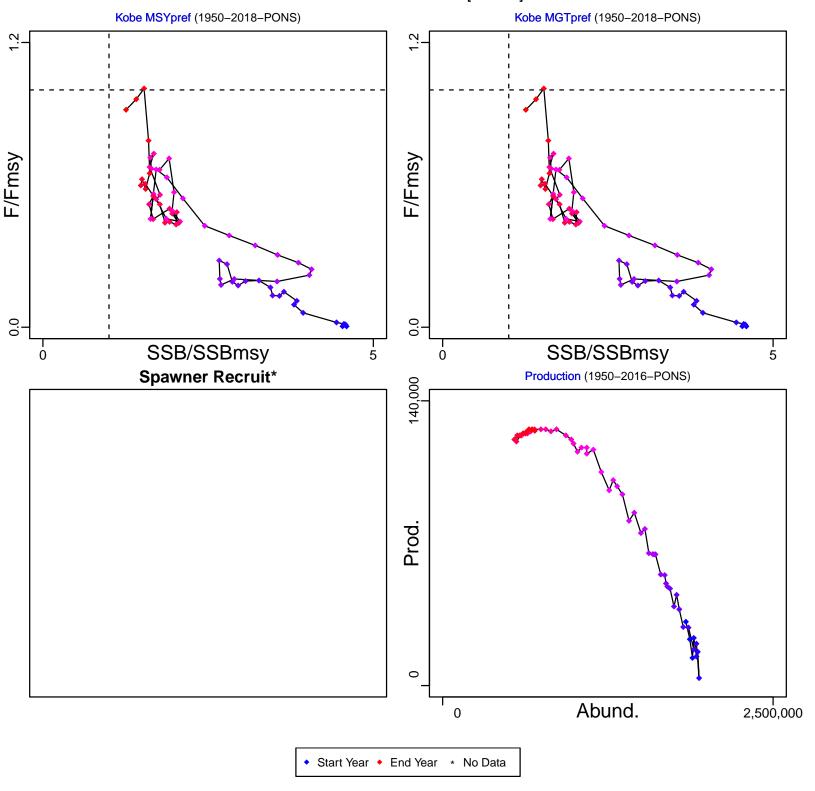


## Yellowfin tuna Atlantic Ocean [YFINATL]

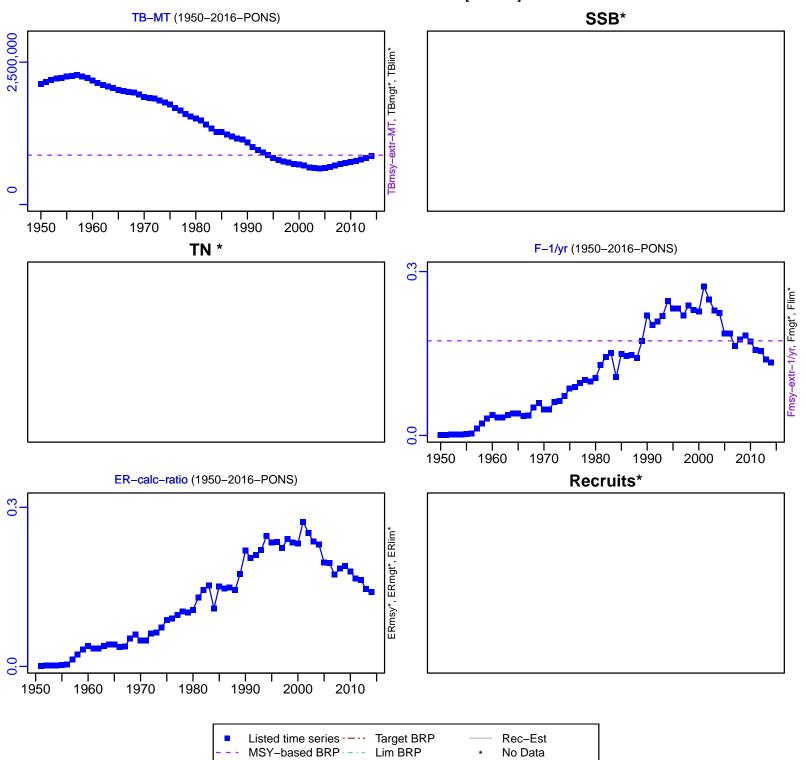
Metadata			
Scientific Name	Thunnus albacares		
Current Assess ID	ICCAT-YFINATL-1950-2018-PONS		
Area Atlantic Ocean			
Management Authority	International Commission for the Conservation of Atlantic Tunas		
Assessor International Commission for the Conservation of Atlantic Tuna			
Asmts in RAM	2011, 2016, 2018		

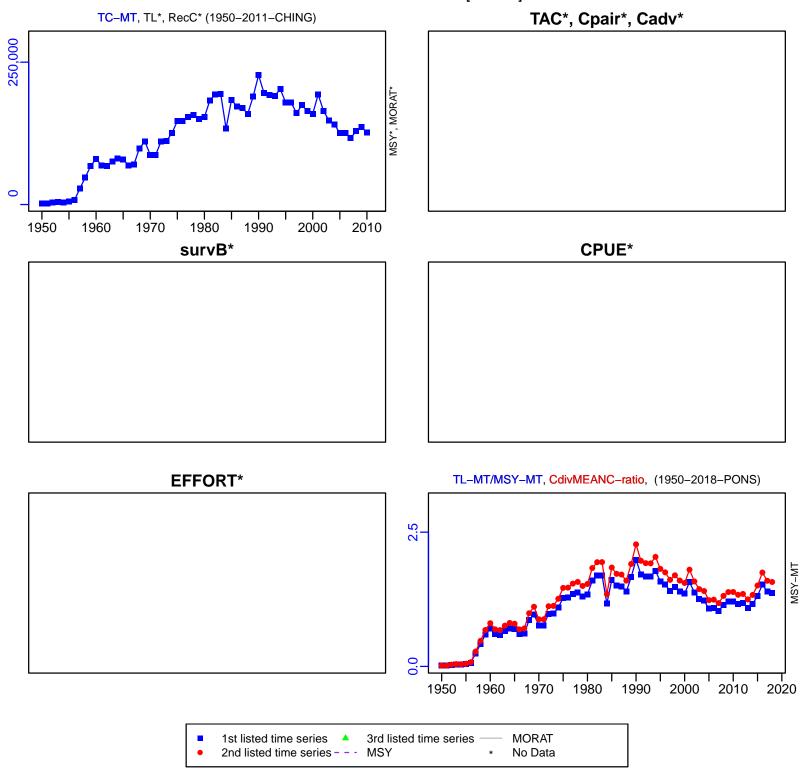
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2016	740,132	
SSBmsy	-	-	-	
Fmsy	Fmsy-extr-1/yr	2016	0.17	
ERmsy	ERmsy-calc-ratio	2011	0.257	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	121,298	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	pe ID Asmt Year Curr Value		Sex	Age	
ТВ	TB-MT	2016	725,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	0.131	-	-
ER	ER-calc-ratio	2016	0.134	-	-
TC	TC-MT	2011	108,000		
TL	TL-MT	2018	133,900		
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.98		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	1.258		
F/Fmsy	FdivFmsy-dimensionless	2018	0.916		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2011	1.074		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Yellowfin tuna Atlantic Ocean [YFINATL]

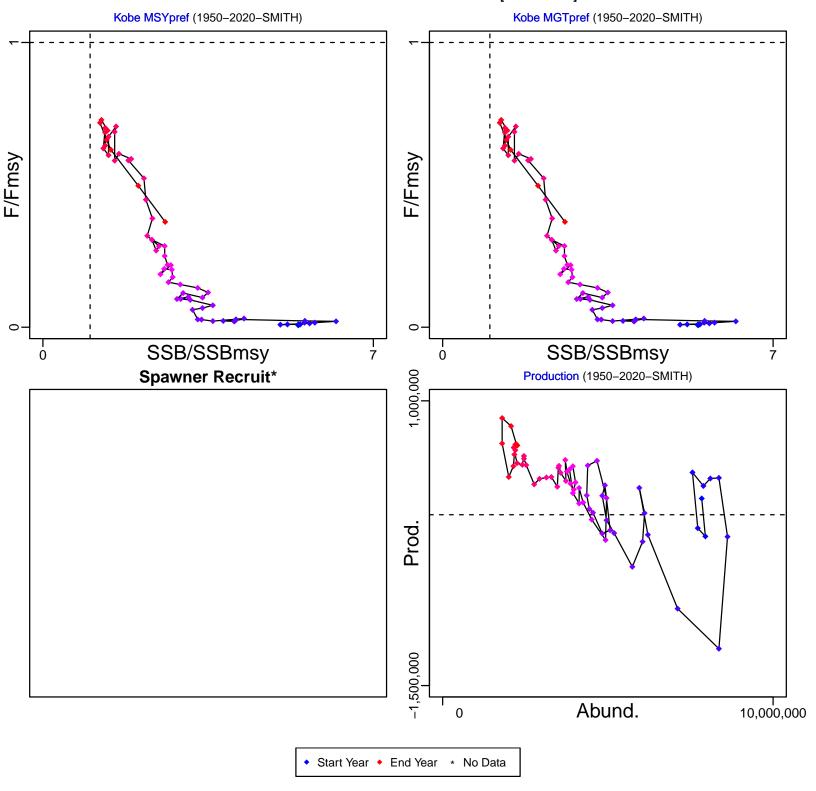


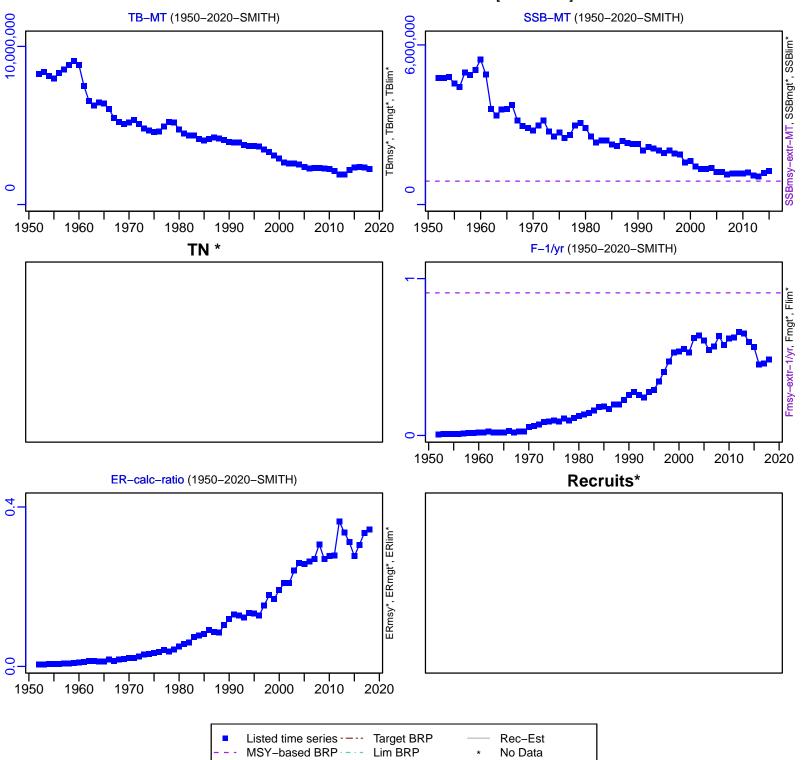


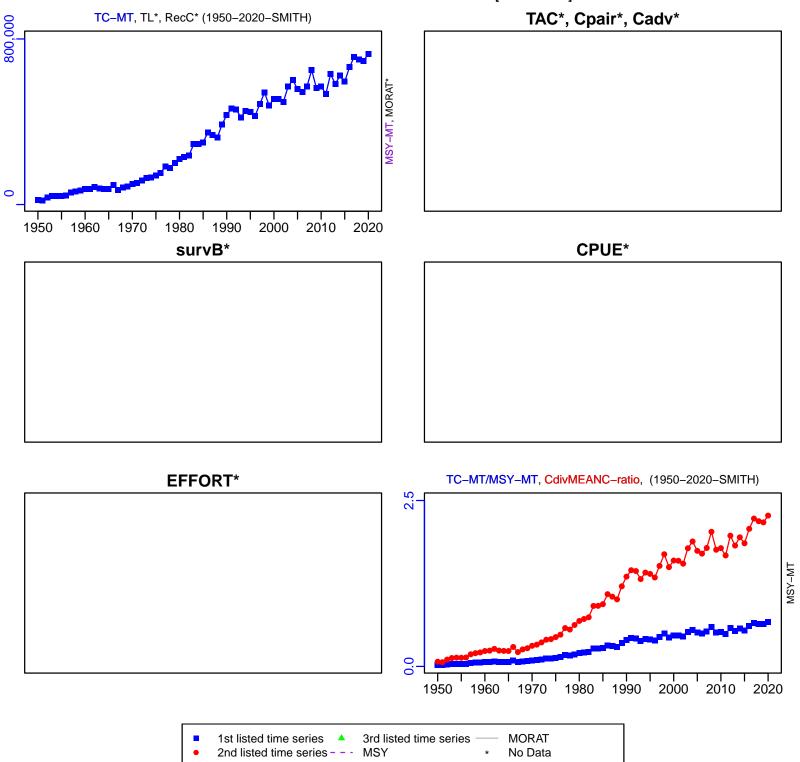
Metadata			
Scientific Name	Thunnus albacares		
Current Assess ID	SPC-YFINCWPAC-1950-2020-SMITH		
Area Central Western Pacific Ocean			
Management Authority Western and Central Pacific Fisheries Commission			
Assessor	Secretariat of the Pacific Community		
Asmts in RAM	2015, 2020, 2012		

Reference Points				
Туре	pe ID Asmt Year			
TBmsy	-	-	-	
SSBmsy	SSBmsy-extr-MT	2020	841,027	
Fmsy	Fmsy-extr-1/yr	2020	0.855	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2012	728,300	
Fmgt	Fmgt-1/yr	2012	0.09	
ERmgt	-	-	-	
TB0	TB0-MT	2012	4,319,000	
SSB0	SSB0-MT	2012	2,467,000	
MSY	MSY-MT	2020	1,090,706	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	2,120,000	-	-
SSB	SSB-MT	2020	1,210,000	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2020	0.457	-	-
ER	ER-calc-ratio	2020	0.328	-	-
TC	TC-MT	2020	722,042		
TL	TL-MT	2015	576,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	1.19		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	2.43		
F/Fmsy	FdivFmsy-dimensionless	2020	0.37		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	7.989		
ER/ERmgt	-	-	-		



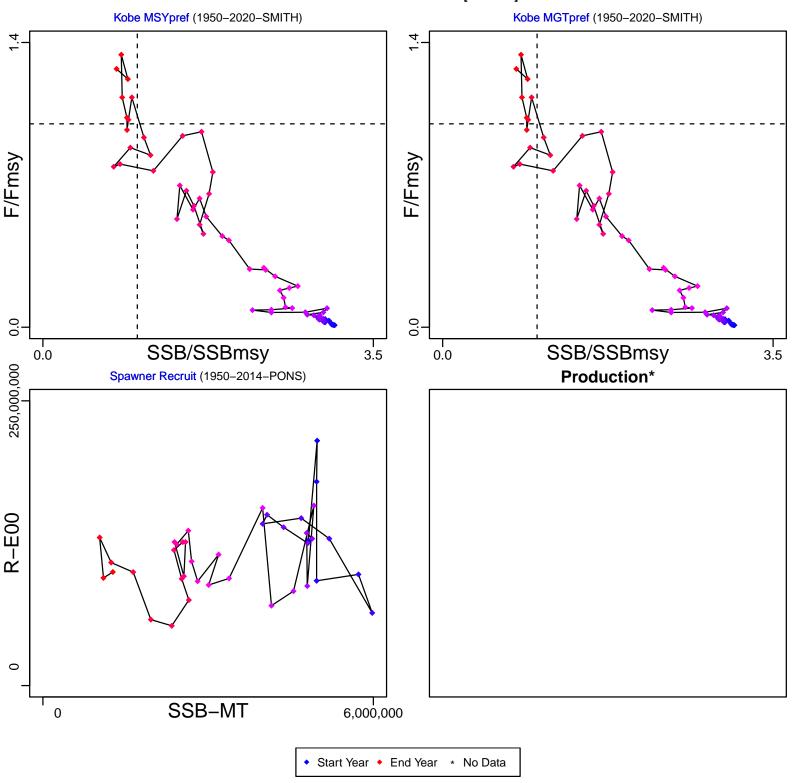


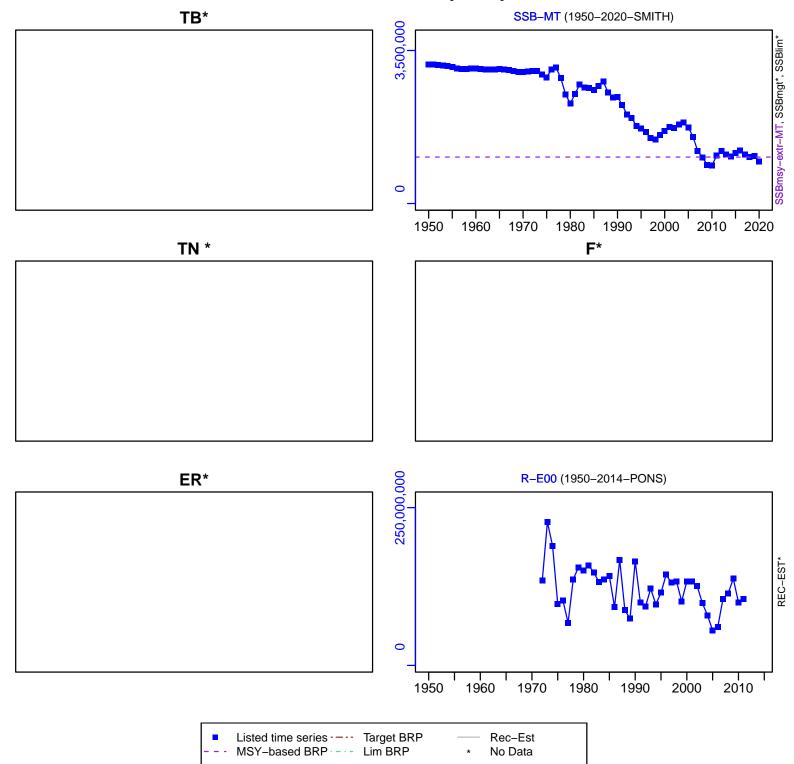


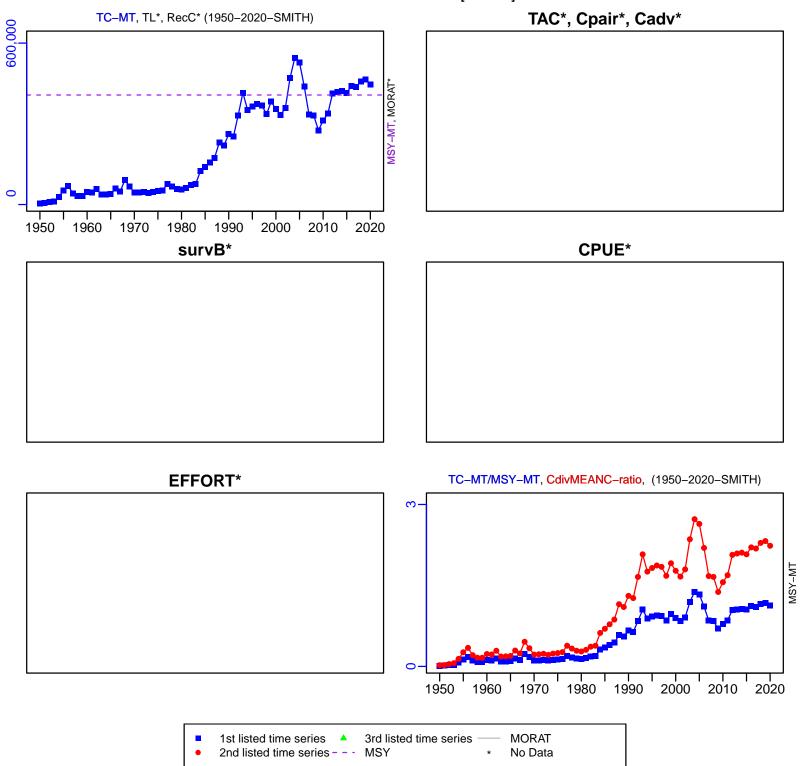
Metadata			
Scientific Name	Thunnus albacares		
Current Assess ID IOTC-YFINEIO-1950-2020-SM			
Area	Indian Ocean		
Management Authority	Indian Ocean Tuna Commission		
Assessor Indian Ocean Tuna Commission			
Asmts in RAM	2014, 2016, 2020		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2014	1,346,000	
SSBmsy	SSBmsy-extr-MT	2020	975,055	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2014	0.255	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2014	3,596,000	
SSB0	SSB0-MT	2014	2,910,000	
MSY	MSY-MT	2020	394,000	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2020	883,400	-	-
TN	-	-	-	-	-
R	R-E00	2014	99,700,000	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	432,623		
TL	TL-MT	2016	427,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	0.78		
F/Fmsy	FdivFmsy-dimensionless	2020	1.27		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







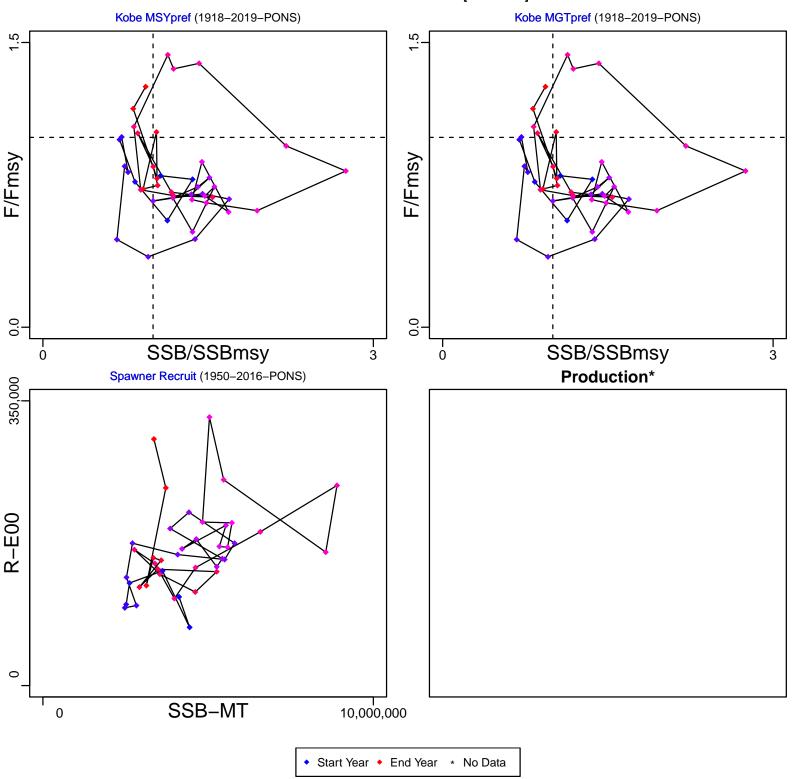
# Yellowfin tuna Eastern Pacific [YFINEPAC]

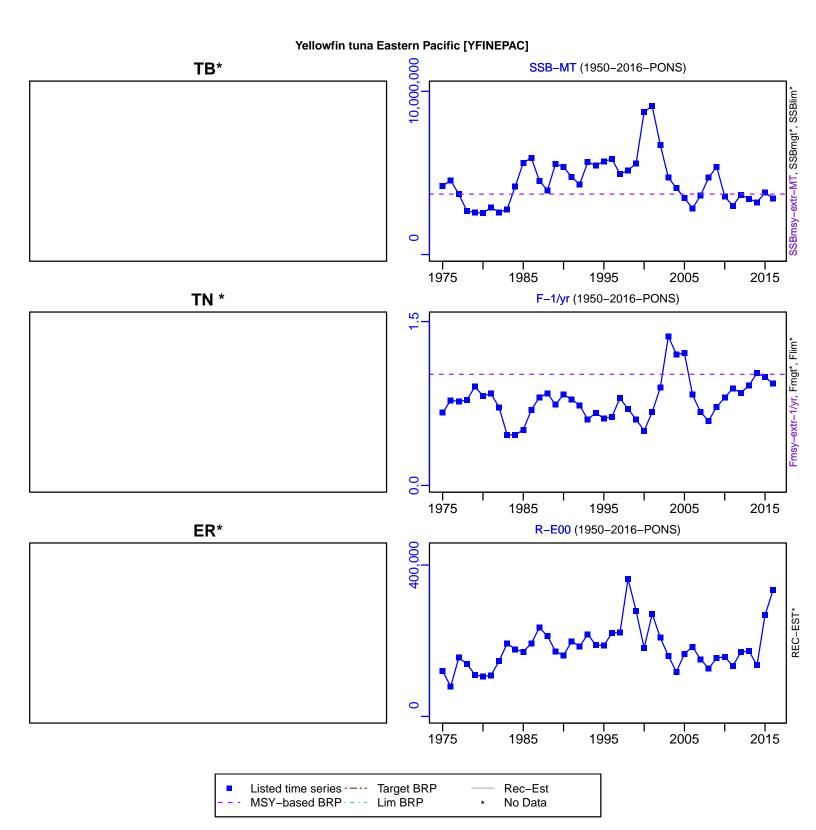
Metadata			
Scientific Name	Thunnus albacares		
Current Assess ID IATTC-YFINEPAC-1918-2019-PONS			
Area Eastern Pacific			
Management Authority	Inter-American Tropical Tuna Commission		
Assessor Inter-American Tropical Tuna Con			
Asmts in RAM	2019, 2012, 2016		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2012	362,582	
SSBmsy	SSBmsy-extr-MT	2016	3,623,005	
Fmsy	Fmsy-extr-1/yr	2016	1	
ERmsy	ERmsy-calc-ratio	2012	0.734	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	254,975	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2016	3,360,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	303,000	-	-
F	F-1/yr	2016	0.916	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	191,000		
TL	TL-MT	2019	251,054		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	1.07		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	0.76		
F/Fmsy	FdivFmsy-dimensionless	2019	1.267		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

#### Yellowfin tuna Eastern Pacific [YFINEPAC]





## Yellowfin tuna Eastern Pacific [YFINEPAC]

