Pacific Ocean Stocks

v4.495 (Apr-21-2021)

Not present Present Preferred

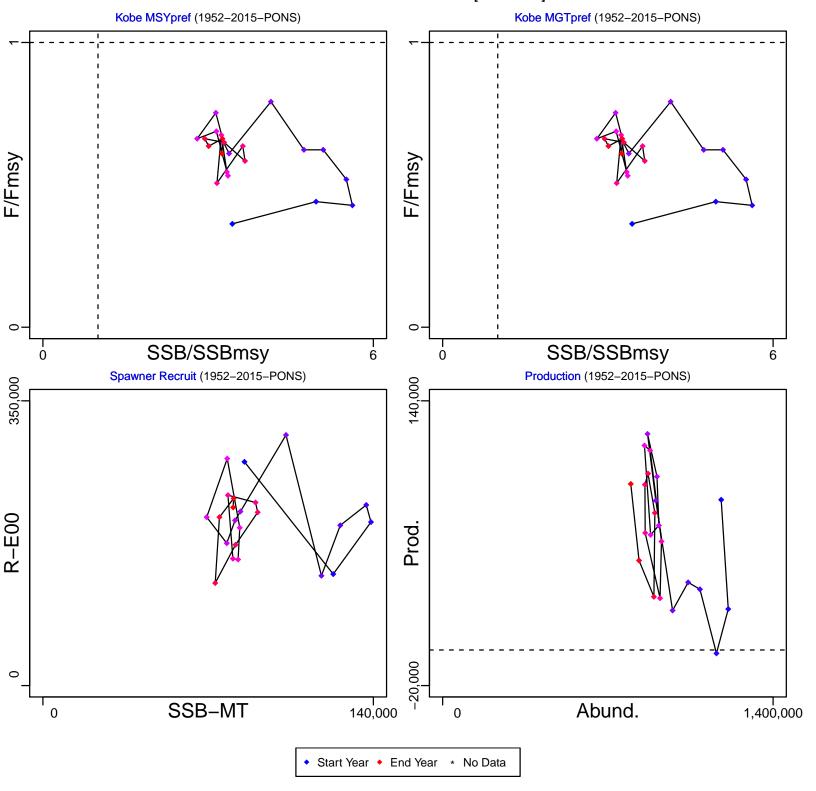
	Time Series Types			
Stock	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
ALBANPAC [Albacore tuna North Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
ALBASPAC [Albacore tuna South Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
3. BIGEYECWPAC [Bigeye tuna Central Western Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
4. BIGEYEEPAC [Bigeye tuna Eastern Pacific]	TB SSB	ER F	TB SSB	ER F
5. BLSHARNPAC [Blue shark North Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
6. BMARLINPAC [Blue marlin Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
7. PACBTUNA [Pacific bluefin tuna Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
8. SFMAKONPAC [Shortfin mako North Pacific]	TB SSB	ER F	TB SSB	ER F
SFMAKONWPAC [Shortfin make Nothwest Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
10. SKJCWPAC [Skipjack tuna Central Western Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
11. SKJEPAC [Skipjack tuna Eastern Pacific]	TB SSB	ER F	TB SSB	ER F
12. STMARLINNEPAC [Striped marlin Northeast Pacific]	TB SSB	ER F	TB SSB	ER F
13. STMARLINSWPO [Striped marlin Western Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
14. STMARLINWCNPAC [Striped marlin Western and Central North Pa-	TB SSB	ER F	TB SSB	ER F
cific]				
15. SWORDEPAC [Swordfish Eastern Pacific]	TB SSB	ER F	TB SSB	ER F
16. SWORDNPAC [Swordfish North Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
17. THRSHARNPAC [Thresher shark North Pacific]	TB SSB	ER F	TB SSB	ER F
18. YFINCWPAC [Yellowfin tuna Central Western Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
19. YFINEPAC [Yellowfin tuna Eastern Pacific]	TB SSB	ER F	TB SSB	ER F

Albacore tuna North Pacific Ocean [ALBANPAC]

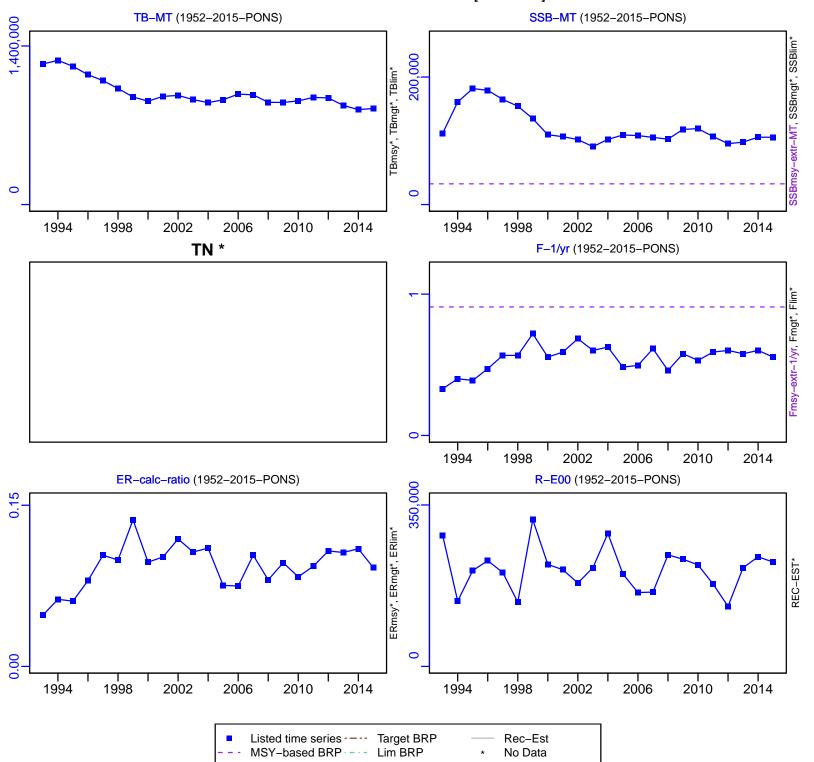
Metadata			
Scientific Name	Thunnus alalunga		
Current Assess ID	ISC-ALBANPAC-1952-2015-PONS		
Area	North Pacific Ocean		
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Assessor	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Asmts in RAM	2012, 2015		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-extr-MT	2015	24,810	
Fmsy	Fmsy-extr-1/yr	2015	0.771	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2012	105,571	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

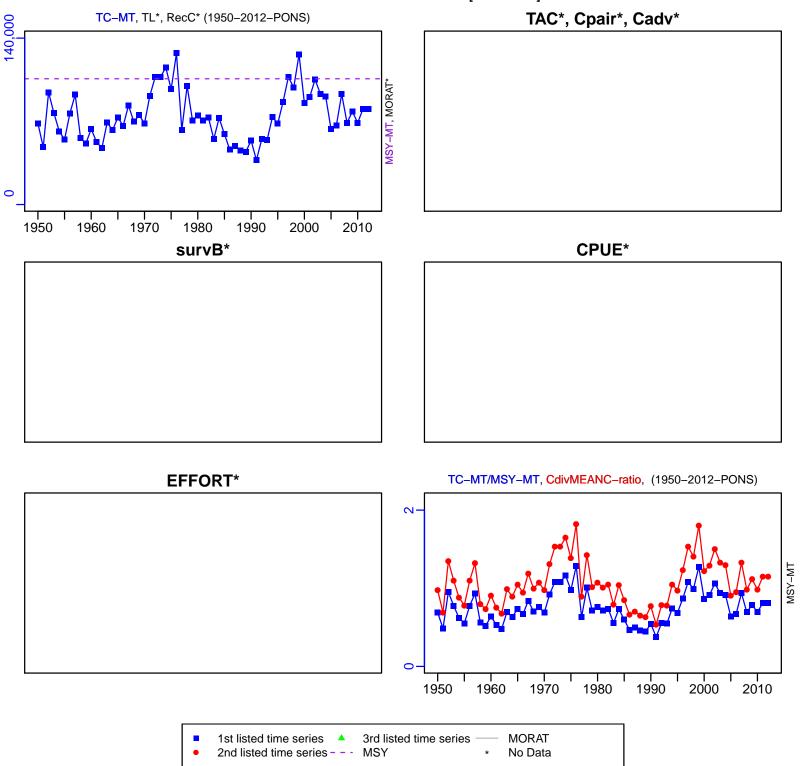
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	806,000	-	-
SSB	SSB-MT	2015	80,600	-	-
TN	-	-	-	-	-
R	R-E00	2015	219,000	-	-
F	F-1/yr	2015	0.47	-	-
ER	ER-calc-ratio	2015	0.089	-	-
TC	TC-MT	2012	80,200		
TL	TL-MT	2015	71,600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	3.25		
F/Fmsy	FdivFmsy-dimensionless	2015	0.61		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Albacore tuna North Pacific Ocean [ALBANPAC]



Albacore tuna North Pacific Ocean [ALBANPAC]

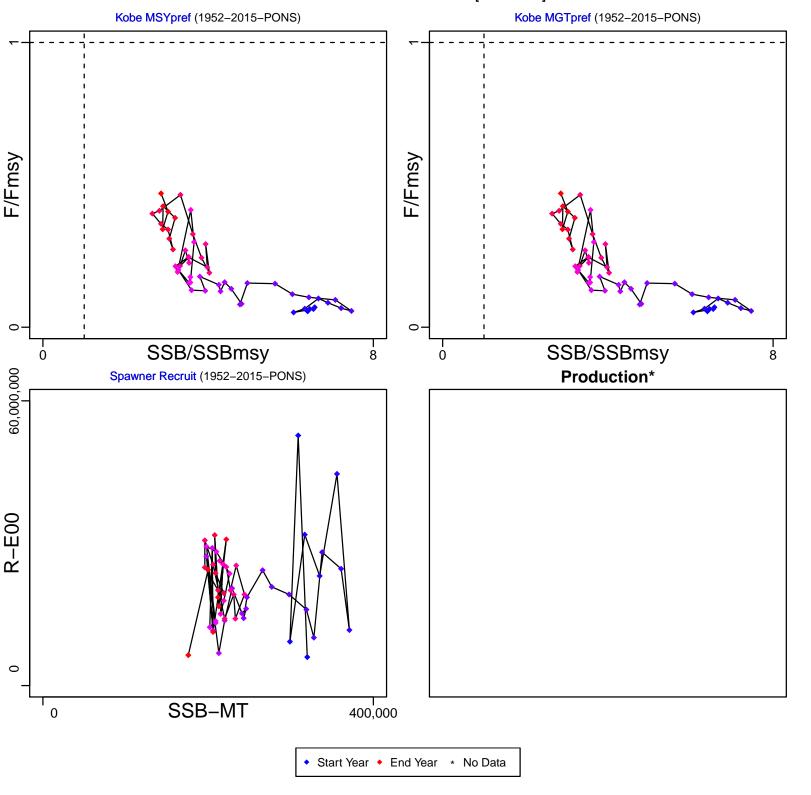


Albacore tuna South Pacific Ocean [ALBASPAC]

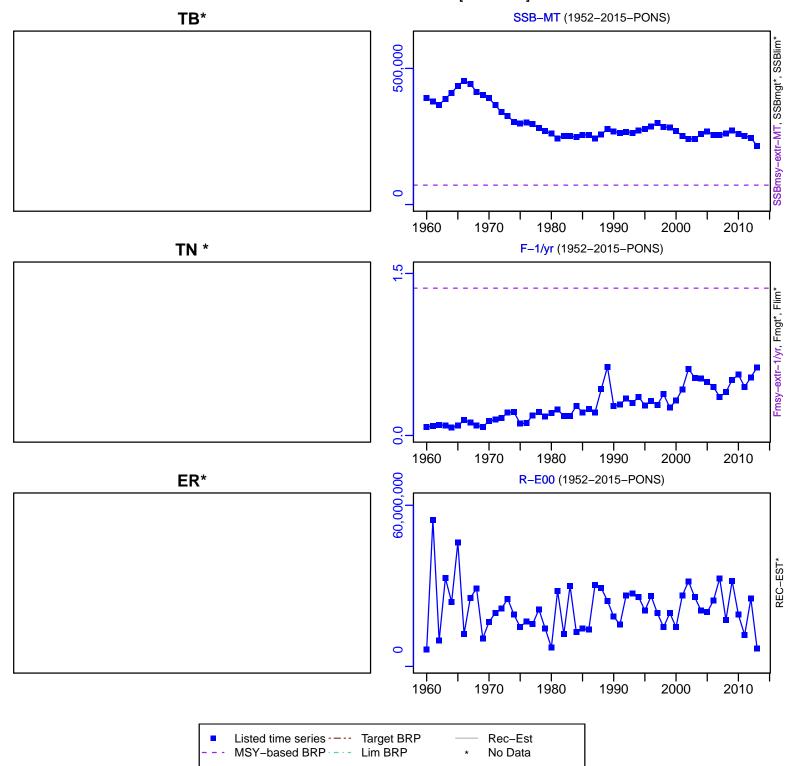
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Scientific Name	Thunnus alalunga		
Current Assess ID	SPC-ALBASPAC-1952-2015-PONS		
Area	South Pacific Ocean		
Management Authority	Western and Central Pacific Fisheries Commission		
Assessor	Secretariat of the Pacific Community		
Asmts in RAM	2015,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

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2010	835,200	
SSBmsy	SSBmsy-extr-MT	2015	58,117	
Fmsy	Fmsy-extr-1/yr	2015	1.325	
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	2015	76,800	
M	M-1/yr	2010	0.4	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

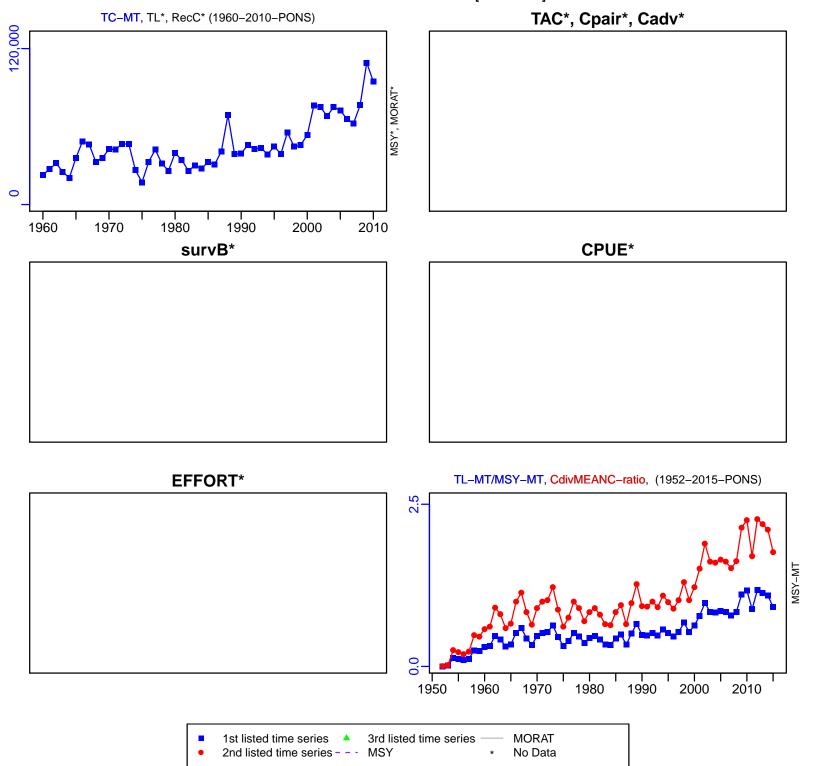
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2015	176,000	-	-
TN	-	-	-	-	-
R	R-E00	2015	6,410,000	-	-
F	F-1/yr	2015	0.613	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	88,500		
TL	TL-MT	2015	68,300		
TB/TBmsy	TBdivTBmsy-dimensionless	2015	1.49		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	2.86		
F/Fmsy	FdivFmsy-dimensionless	2015	0.47		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Albacore tuna South Pacific Ocean [ALBASPAC]



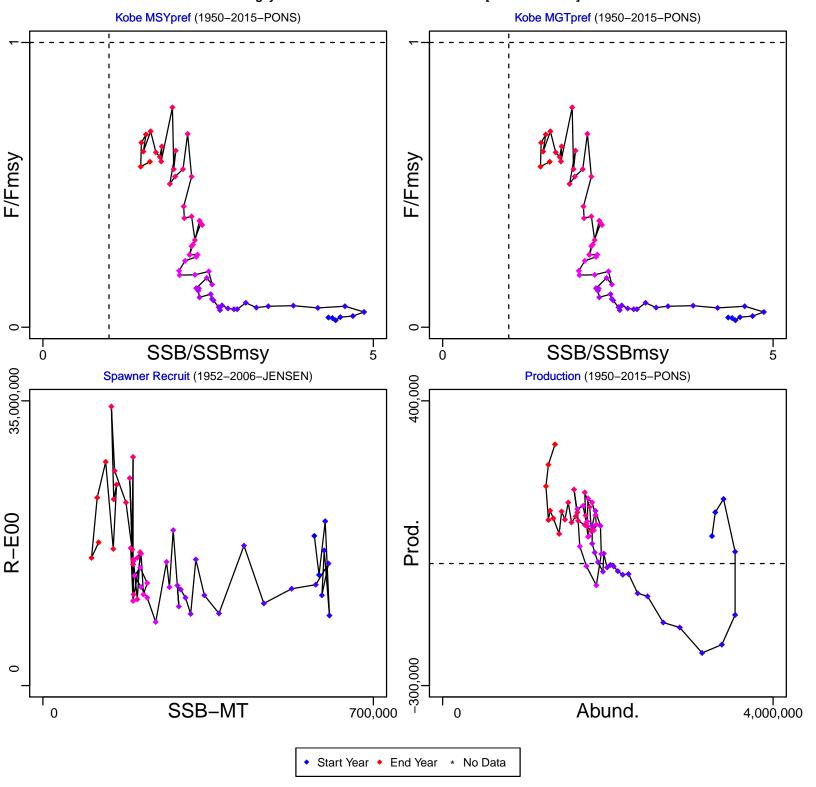
Albacore tuna South Pacific Ocean [ALBASPAC]

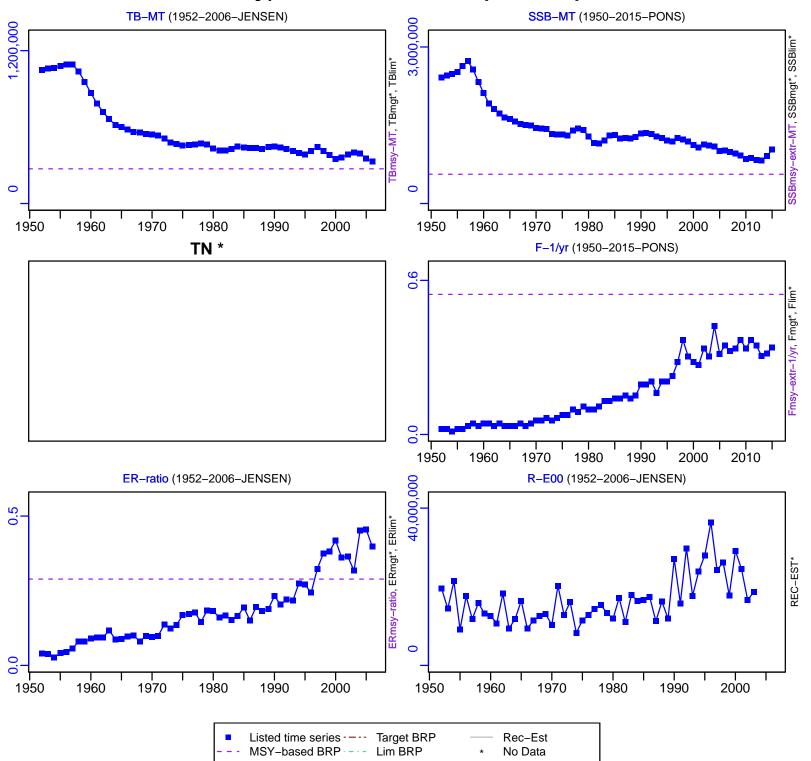


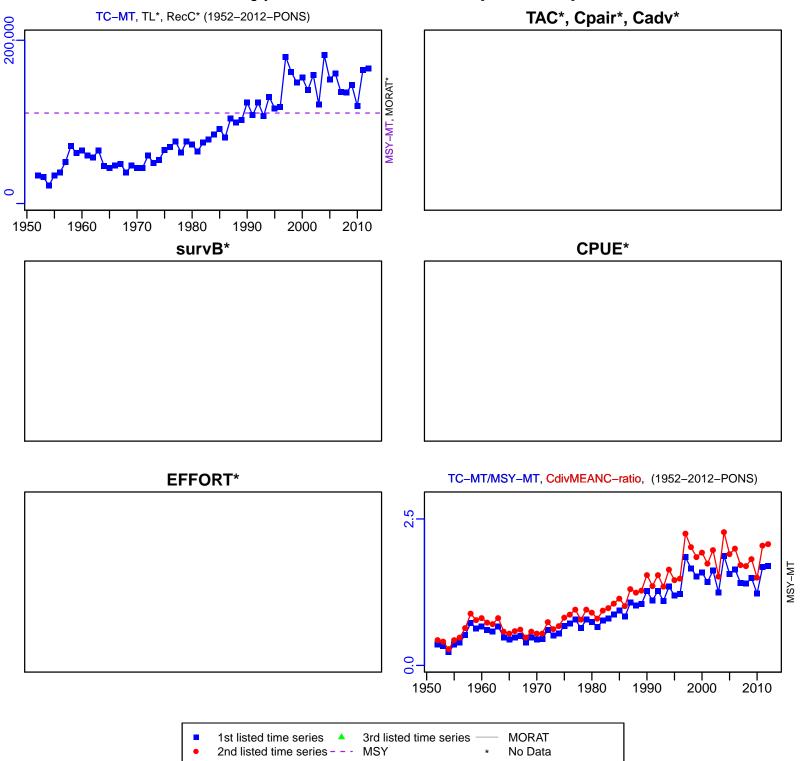
Metadata				
Scientific Name	Thunnus obesus			
Current Assess ID	SPC-BIGEYECWPAC-1950-2015-PONS			
Area	Central Western Pacific Ocean			
Management Authority	Western and Central Pacific Fisheries Commission			
Assessor Secretariat of the Pacific Community				
Asmts in RAM	2015, 2006, 2012			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2006	249,600	
SSBmsy	SSBmsy-extr-MT	2015	526,500	
Fmsy	Fmsy-extr-1/yr	2015	0.504	
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	2012	108,520	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	1,500,000	-	-
SSB	SSB-MT	2015	968,000	-	-
TN	-	-	-	-	-
R	R-E00	2006	17,600,000	-	-
F	F-1/yr	2015	0.313	-	-
ER	ER-calc-ratio	2015	0.106	-	-
TC	TC-MT	2012	162,000		
TL	TL-MT	2015	135,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	0.921		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	1.62		
F/Fmsy	FdivFmsy-dimensionless	2015	0.626		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	1.376		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



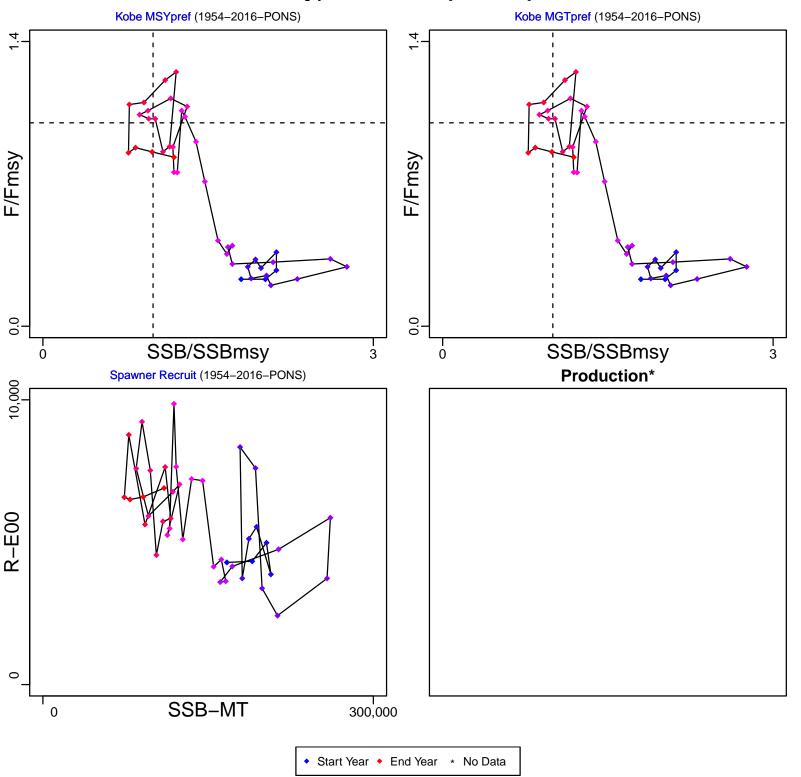


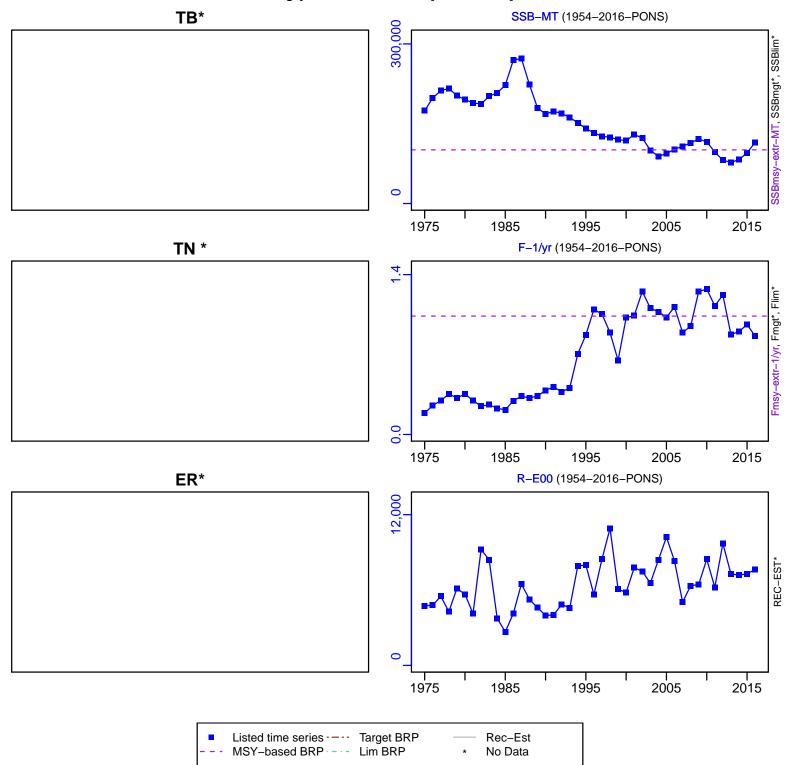


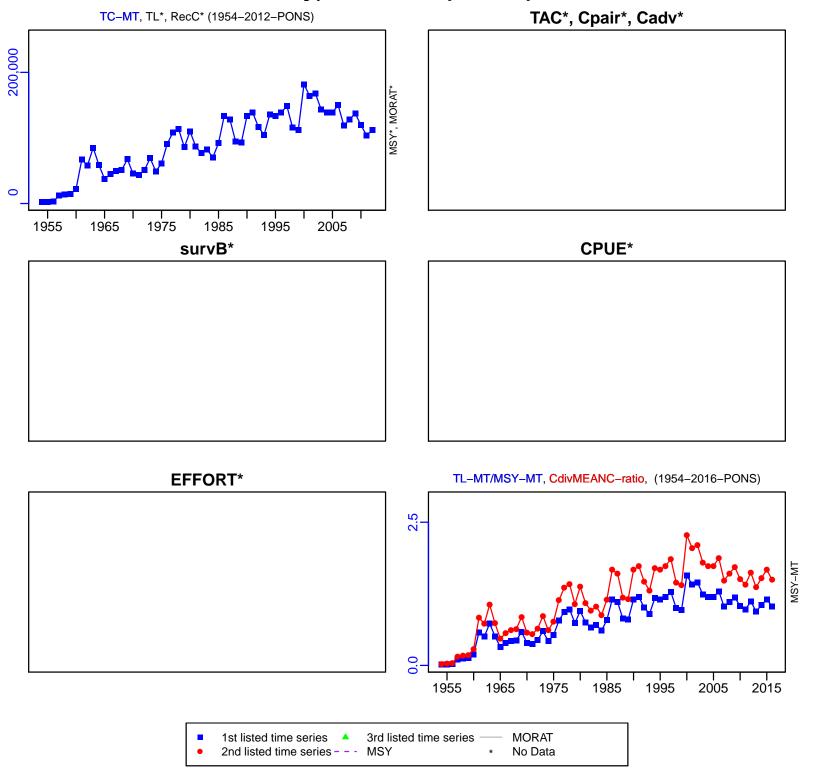
Metadata			
Scientific Name	Thunnus obesus		
Current Assess ID	IATTC-BIGEYEEPAC-1954-2016-PONS		
Area	Eastern Pacific		
Management Authority	Inter-American Tropical Tuna Commission		
Assessor	Inter-American Tropical Tuna Commission		
Asmts in RAM	2012, 2016		

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	2016	106,201	
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	2016	94,100		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	0.945		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2016	1.19		
F/Fmsy	FdivFmsy-dimensionless	2016	0.831		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



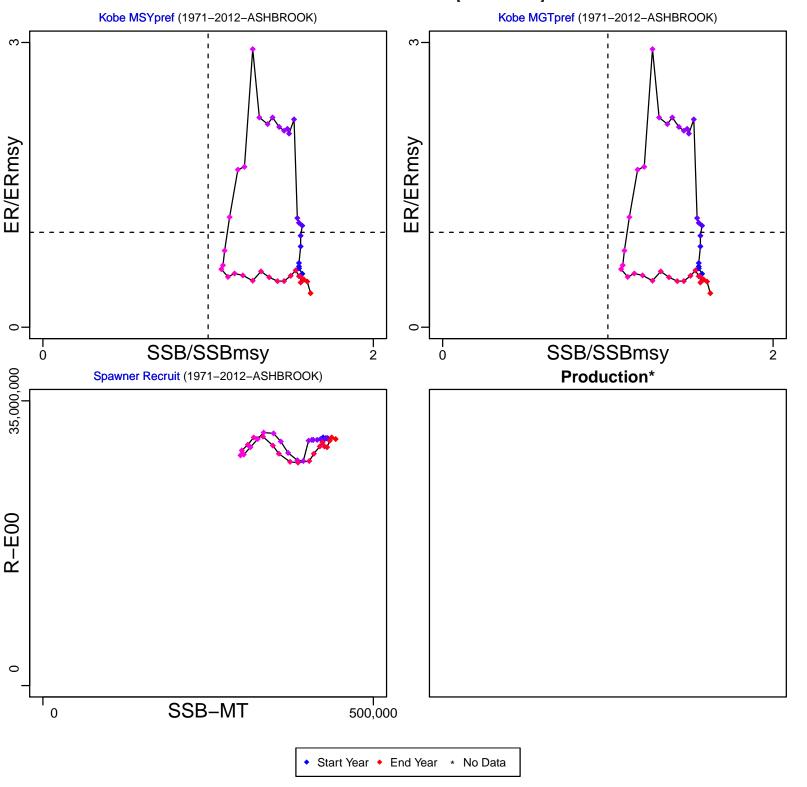


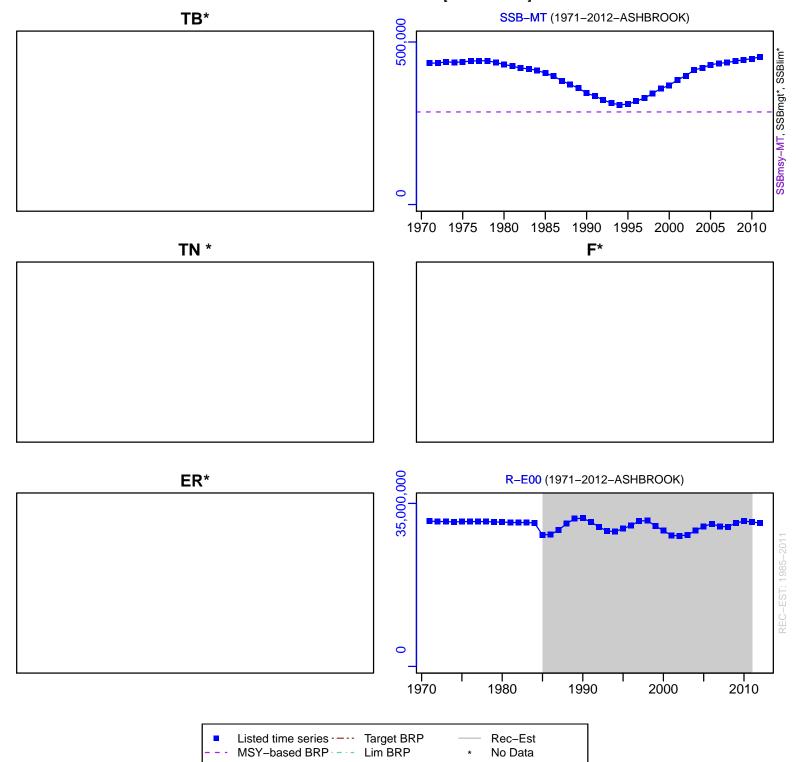


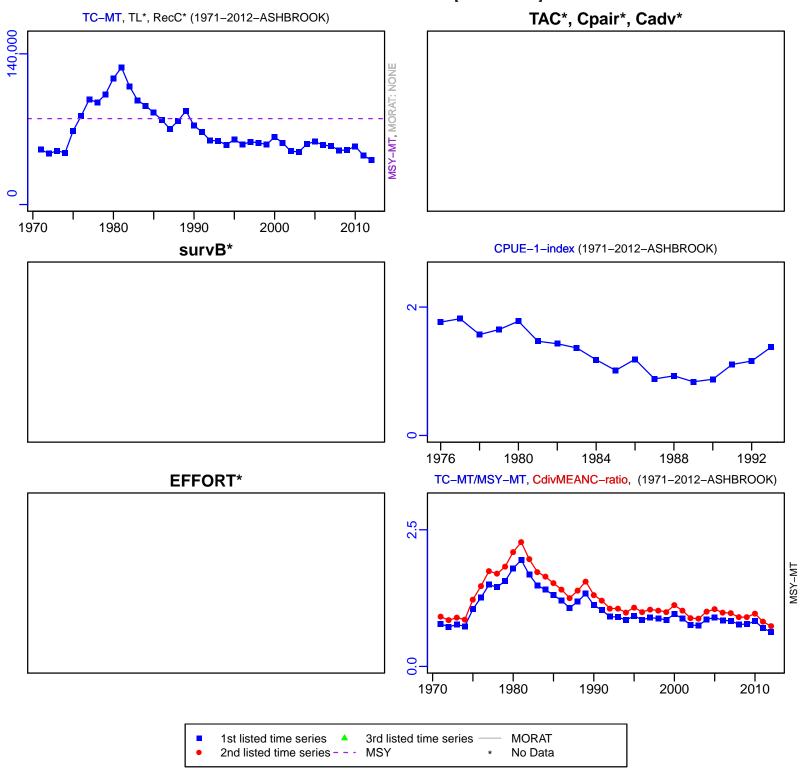
Metadata			
Scientific Name	Prionace glauca		
Current Assess ID	ISC-BLSHARNPAC-1971-2012-ASHBROOK		
Area	North Pacific Ocean		
Management Authority International Scientific Committee for Tuna and Tuna-like Speci in the North Pacific Ocean			
Assessor	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Asmts in RAM	2012		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2012	320,547	
SSBmsy	SSBmsy-MT	2012	277,565	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2012	0.225	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2012	593,707	
MSY	MSY-MT	2012	72,123	
М	M-1/yr	2012	0.135	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2012	443,000	Females	5+
TN	-	-	-	-	-
R	R-E00	2012	30,100,000	Both	0
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	37,300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2012	1.62		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2012	0.358		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



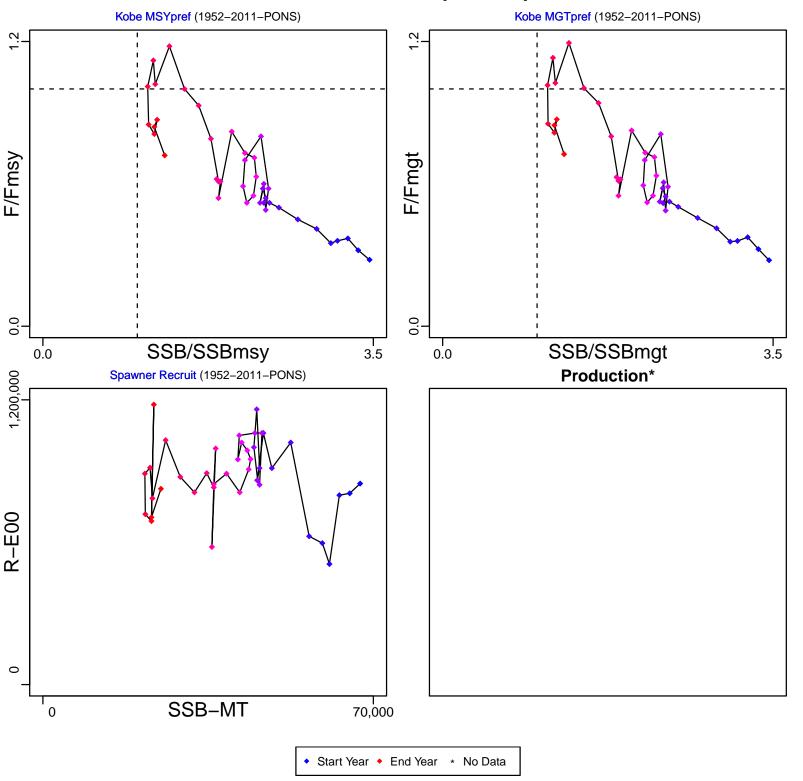


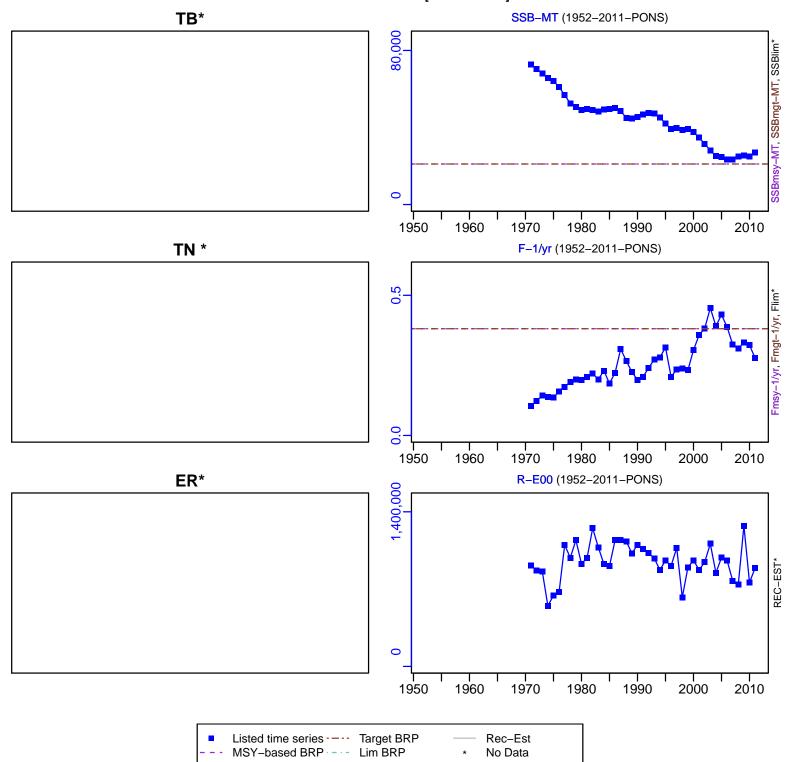


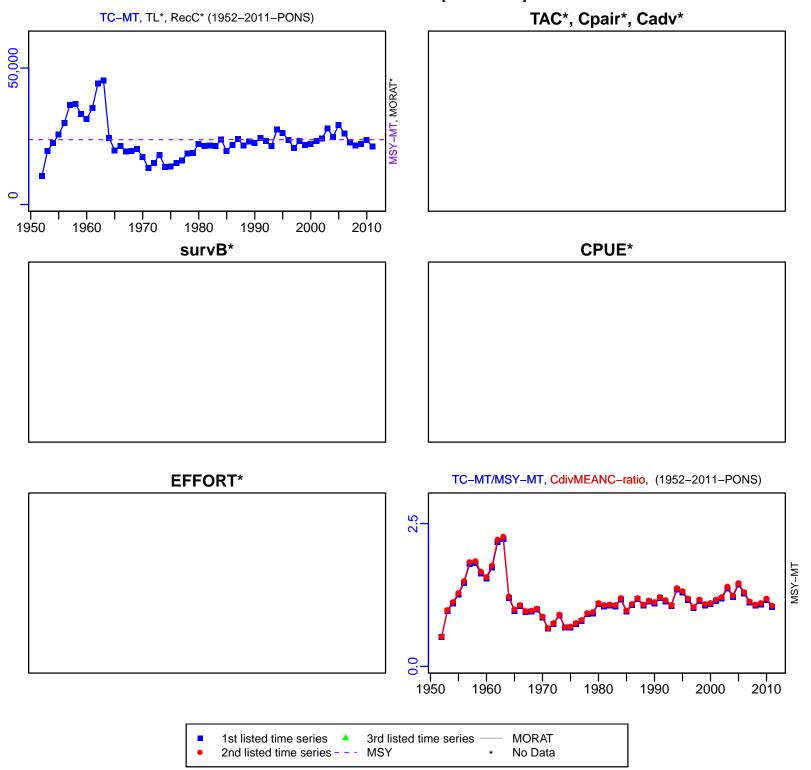
Metadata			
Scientific Name	Makaira nigricans		
Current Assess ID	ISC-BMARLINPAC-1952-2011-PONS		
Area	Pacific Ocean		
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Assessor	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean		
Asmts in RAM	2011		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2011	19,437	
Fmsy	Fmsy-1/yr	2011	0.32	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2011	19,437	
Fmgt	Fmgt-1/yr	2011	0.32	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2011	19,459	
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	2011	25,000	Females	4+
TN	-	-	-	-	-
R	R-E00	2011	825,000	-	-
F	F-1/yr	2011	0.232	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	17,400		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2011	1.29		
F/Fmsy	FdivFmsy-dimensionless	2011	0.72		
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	-	-	-		



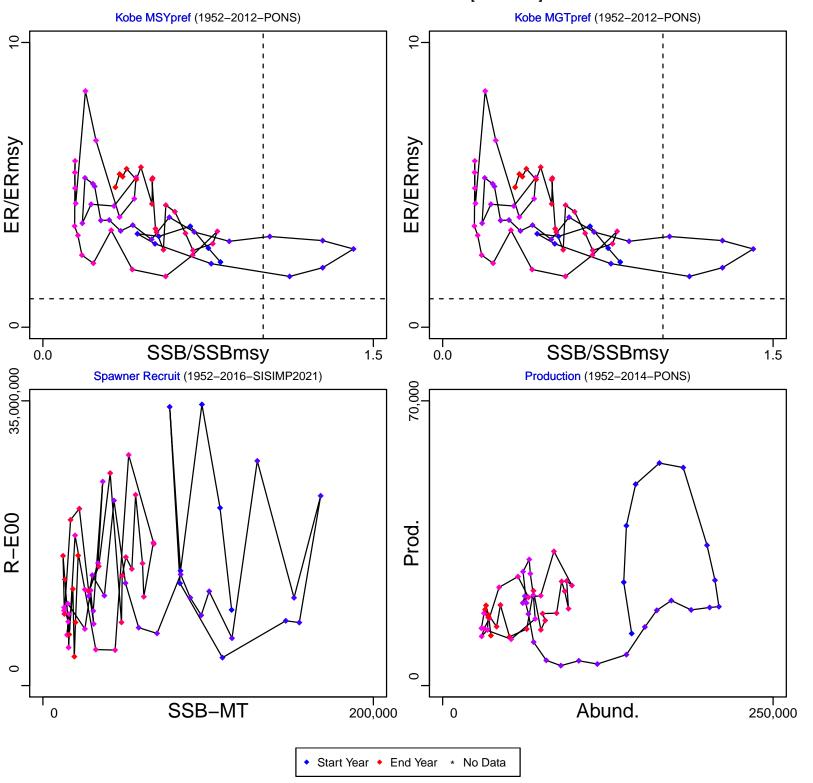


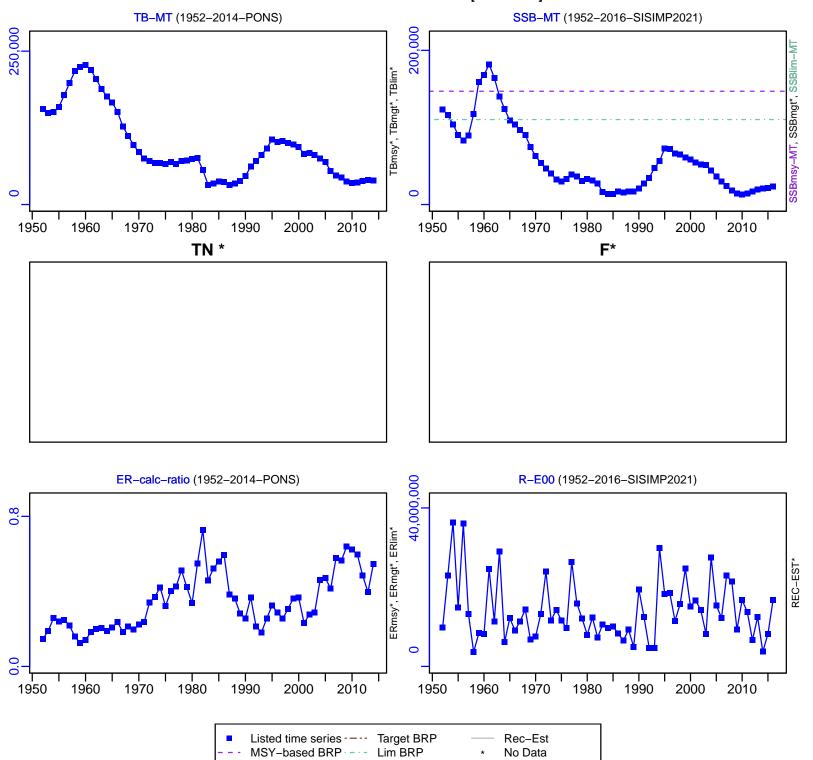


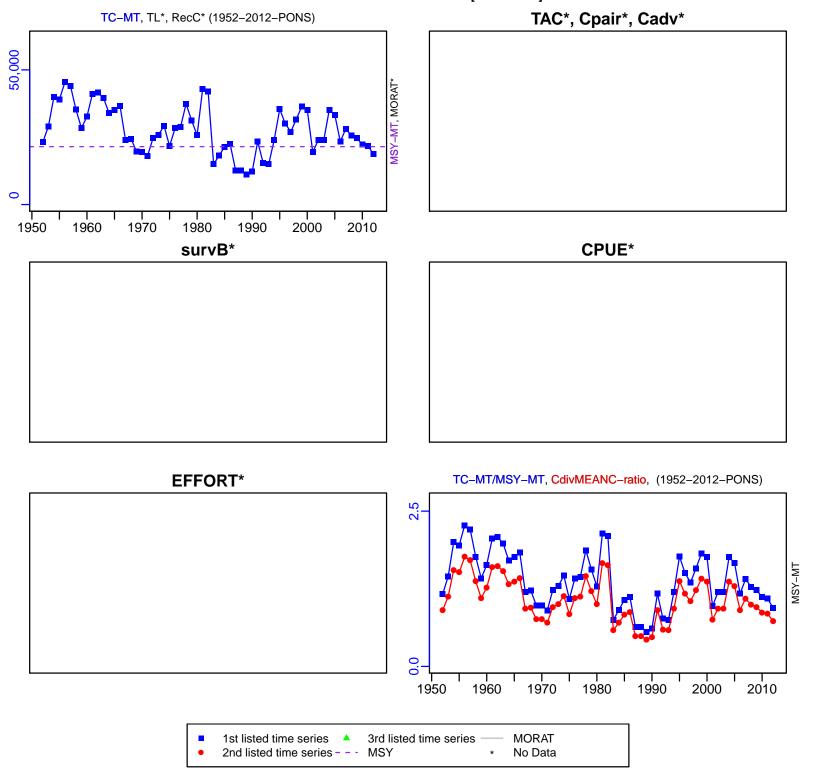
Metadata				
Scientific Name	Thunnus orientalis			
Current Assess ID	ISC-PACBTUNA-1952-2016-SISIMP2021			
Area Pacific Ocean				
Management Authority International Scientific Committee for Tuna and Tuna-like Speci				
in the North Pacific Ocean				
Assessor International Scientific Committee for Tuna and Tuna-like Spec				
	in the North Pacific Ocean			
Asmts in RAM	2012, 2014, 2016			

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	
M		-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2016	101,906	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	35,800	-	-
SSB	SSB-MT	2016	21,331	-	-
TN	-	-	-	-	-
R	R-E00	2016	15,988,000	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.492	-	-
TC	TC-MT	2012	15,200		<u> </u>
TL	TL-MT	2014	17,600		
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	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







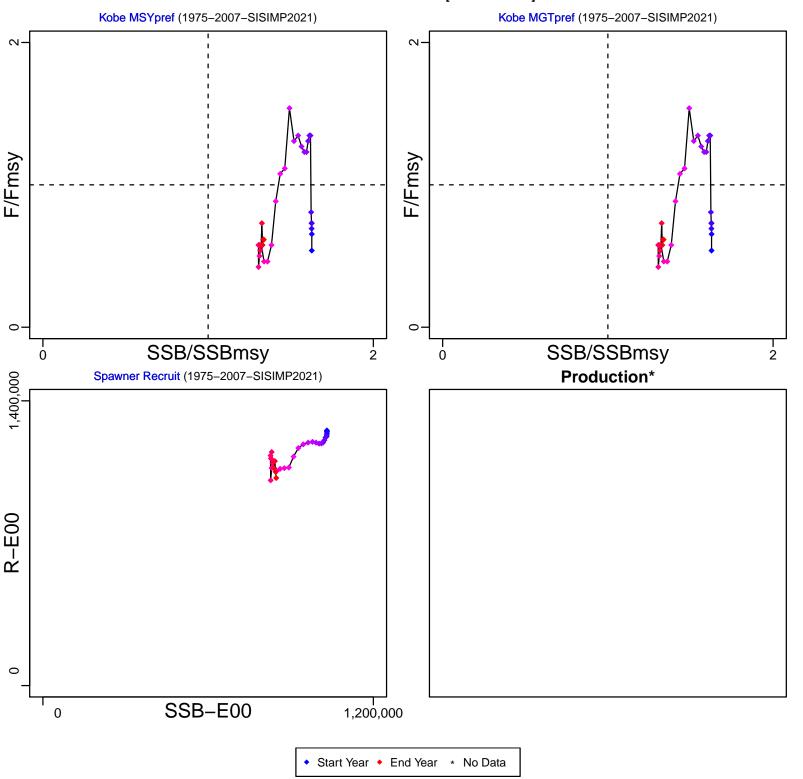
Shortfin mako North Pacific [SFMAKONPAC]

Metadata				
Scientific Name	Isurus oxyrinchus			
Current Assess ID	SWFSC-SFMAKONPAC-1975-2007-SISIMP2021			
Area	North Pacific			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Southwest Fisheries Science Center			
Asmts in RAM	2007			

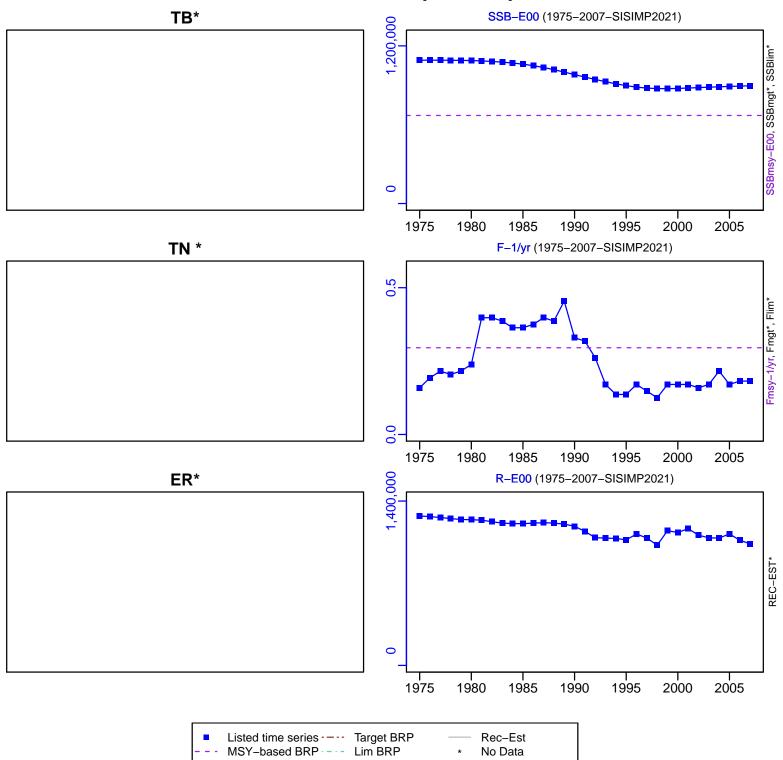
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00	2007	633,700	
Fmsy	Fmsy-1/yr	2007	0.26	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-E00	2007	847,300	-	-
TN	-	-	-	-	-
R	R-E00	2007	1,020,600	-	0
F	F-1/yr	2007	0.16	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	2882		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00/SSBmsy-E00	2007	1.337		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.615		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

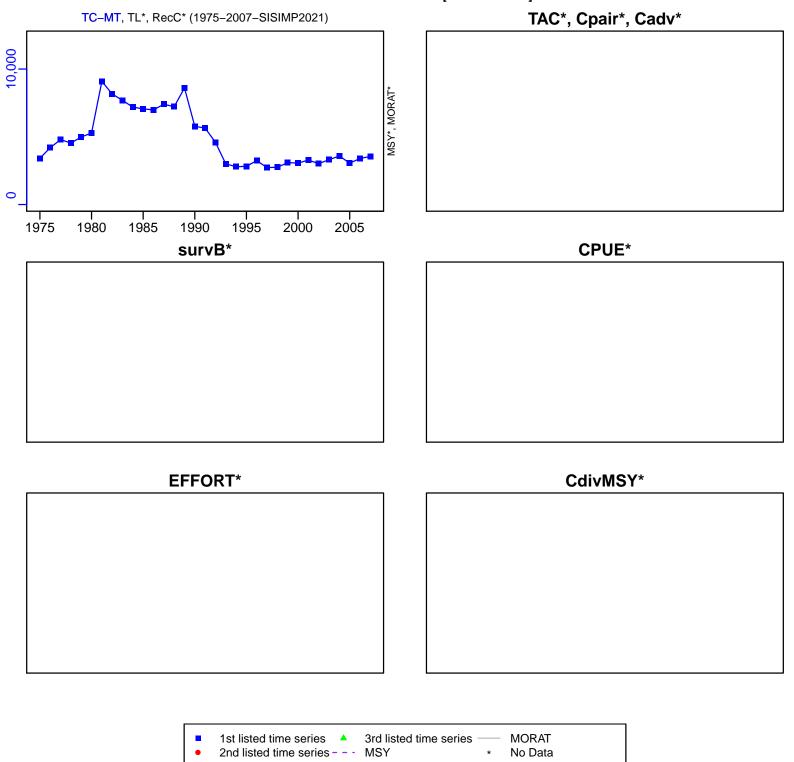
Shortfin mako North Pacific [SFMAKONPAC]



Shortfin make North Pacific [SFMAKONPAC]



Shortfin mako North Pacific [SFMAKONPAC]



Shortfin mako Nothwest Pacific Ocean [SFMAKONWPAC]

Metadata		
Scientific Name	Isurus oxyrinchus	
Current Assess ID	IMARM-SFMAKONWPAC-1990-2003-FAUCONNET	
Area	Nothwest Pacific Ocean	
Management Authority	Unknown management body	
Assessor	Institute of Marine Affairs and Resource Management - National	
	Taiwan Ocean University, 2 Pei-Ning Road, Keelung 20224, Taiwan	
Asmts in RAM	2003	

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

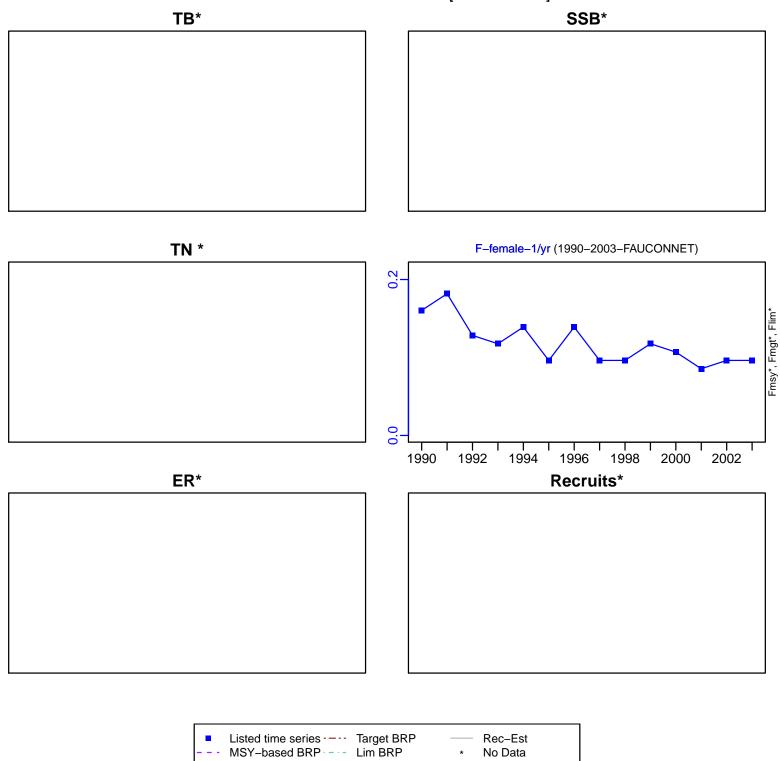
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-female-1/yr	2003	0.09	-	0 to 22
ER	-	-	-	-	-
TC	TC-E00	2003	13,000		
TL	TL-MT	2003	754		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shortfin mako Nothwest Pacific Ocean [SFMAKONWPAC]

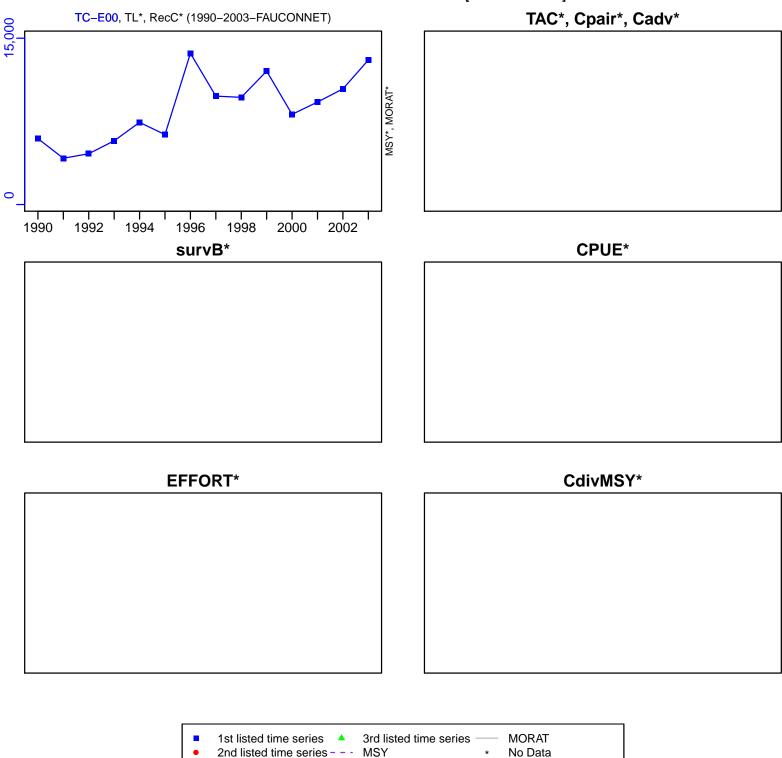
Kobe MGT*
Production*

◆ Start Year ◆ End Year * No Data

Shortfin mako Nothwest Pacific Ocean [SFMAKONWPAC]



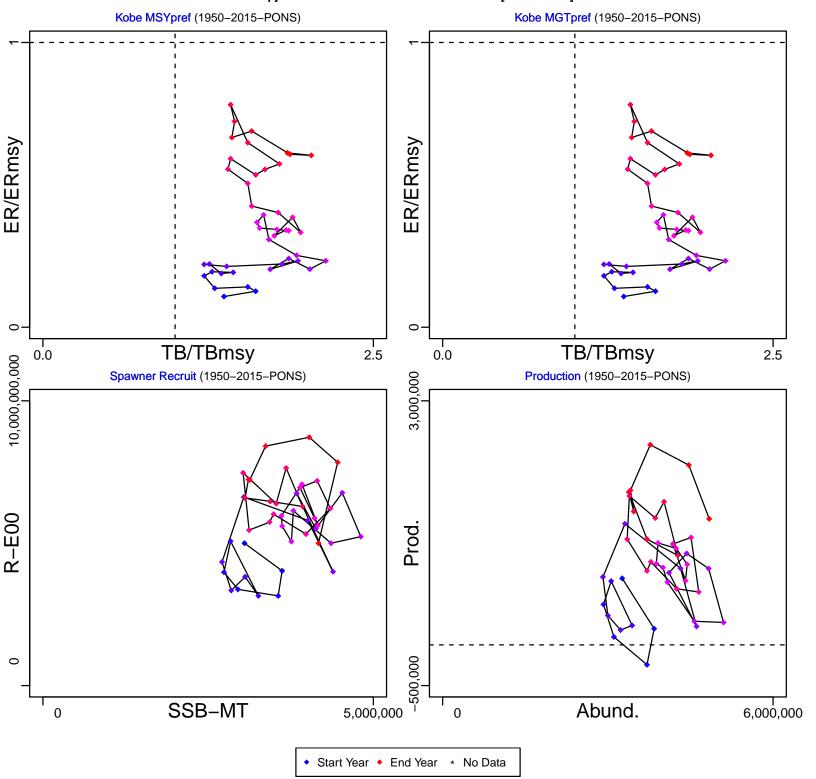
Shortfin mako Nothwest Pacific Ocean [SFMAKONWPAC]

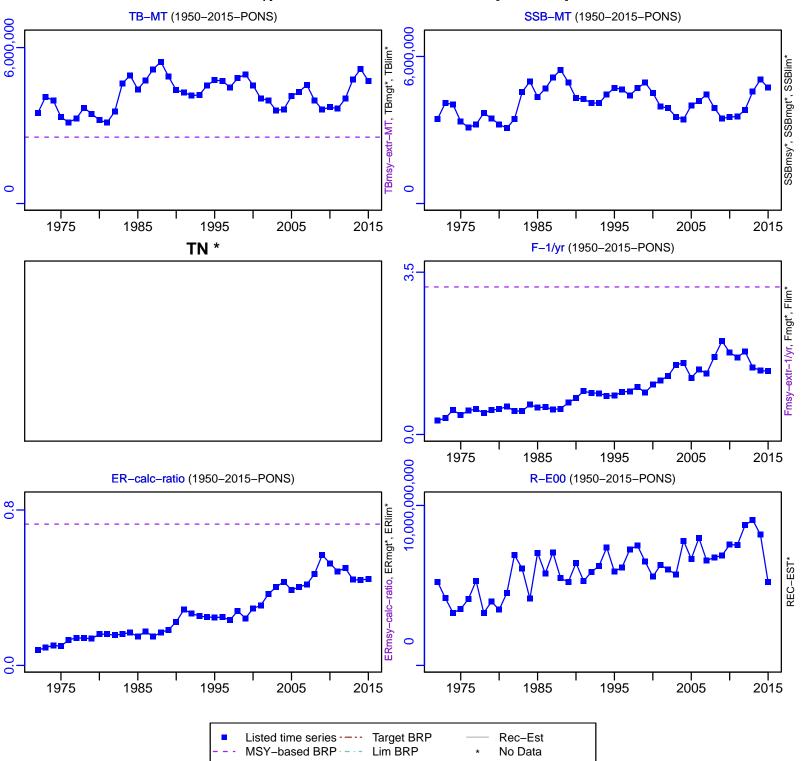


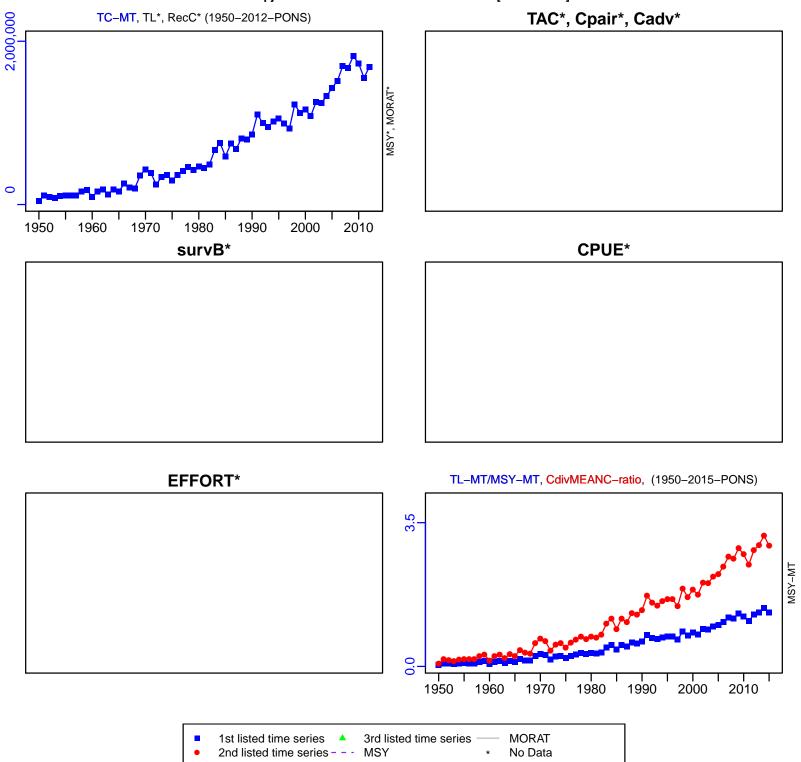
Metadata			
Scientific Name Katsuwonus pelamis			
Current Assess ID SPC-SKJCWPAC-1950-2015-PONS			
Area Central Western Pacific Ocean			
Management Authority Western and Central Pacific Fisheries Commissio			
Assessor Secretariat of the Pacific Community			
Asmts in RAM	2012, 2015		

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	2015	3.096	
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	2015	1,618,800	
M	-	-	-	
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	2015	5×10^9	-	-
F	F-1/yr	2015	1.33	-	-
ER	ER-calc-ratio	2015	0.415	-	-
TC	TC-MT	2012	1,650,000		
TL	TL-MT	2015	1,830,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2015	1.85		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2012	1.82		
F/Fmsy	FdivFmsy-dimensionless	2015	0.48		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	0.612		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







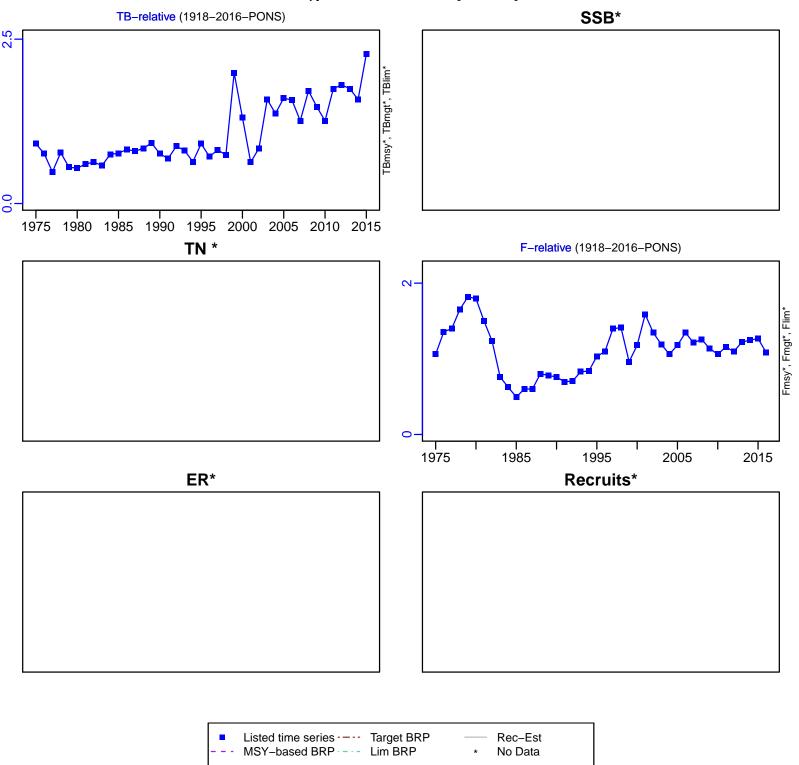
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Scientific Name Katsuwonus pelamis			
Current Assess ID IATTC-SKJEPAC-1918-2016-PONS			
Area Eastern Pacific			
Management Authority Inter-American Tropical Tuna Commission			
Assessor Inter-American Tropical Tuna Commission			
Asmts in RAM	2016		

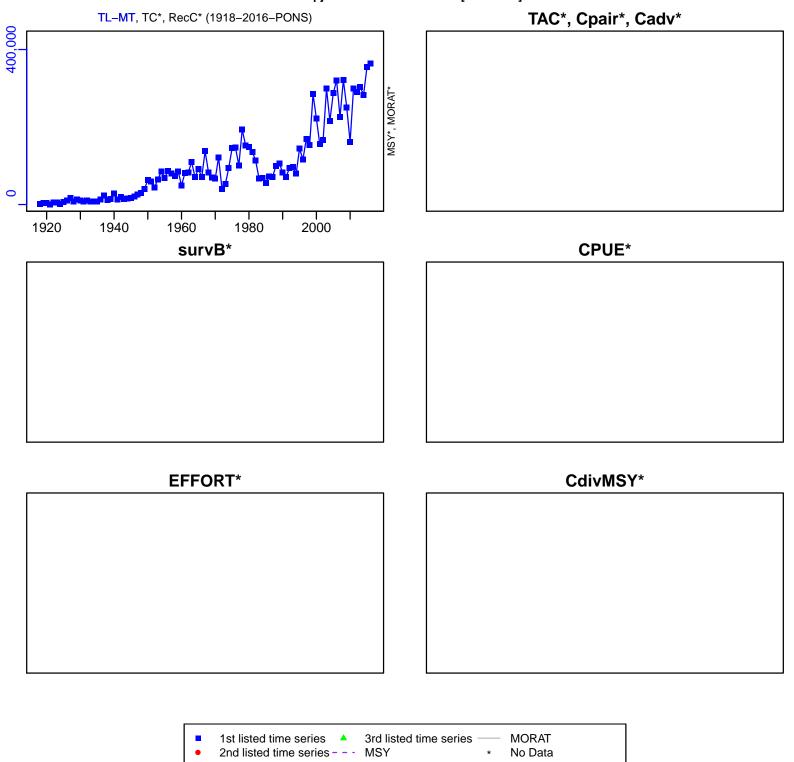
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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 MSY*	Kobe MGT*
Snawner Recruit*	Production*
Spawner Recruit*	
Opawner Recitate	
Opawner Recitate	
Opawner Recruit	
Opawner receruit	
Opawner receruit	

◆ Start Year ◆ End Year * No Data

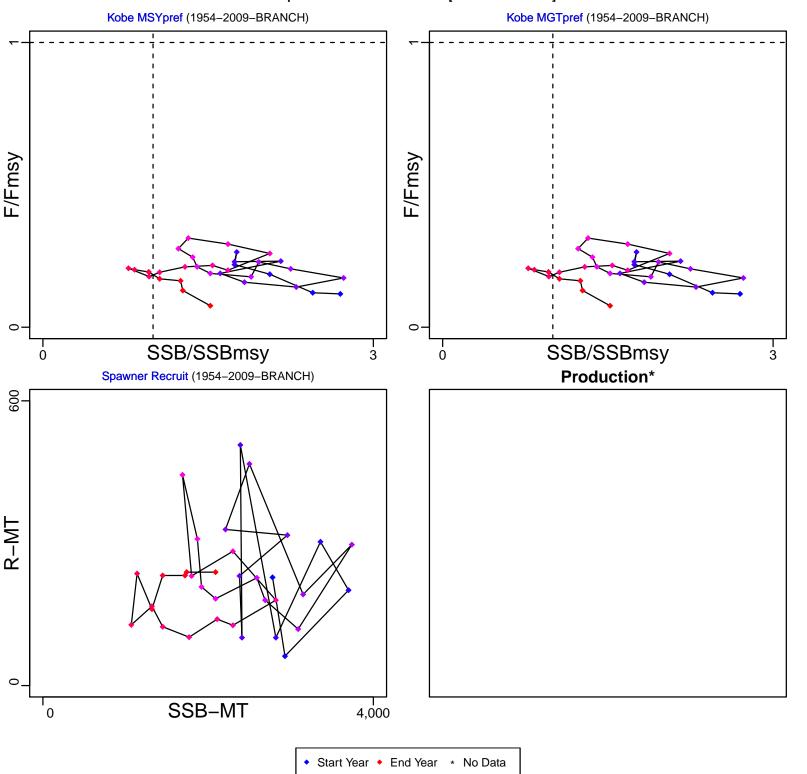


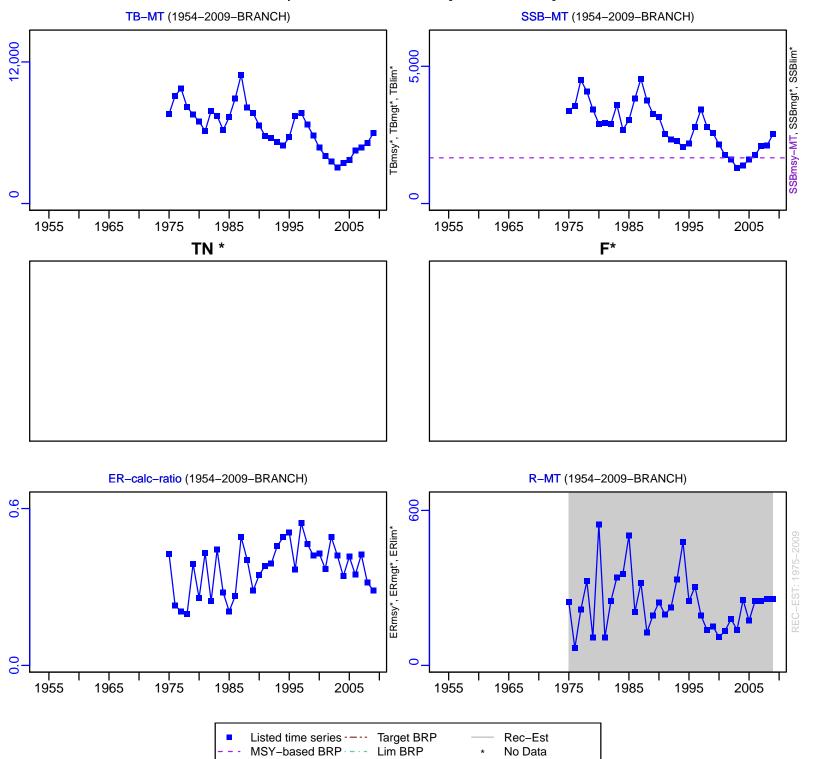


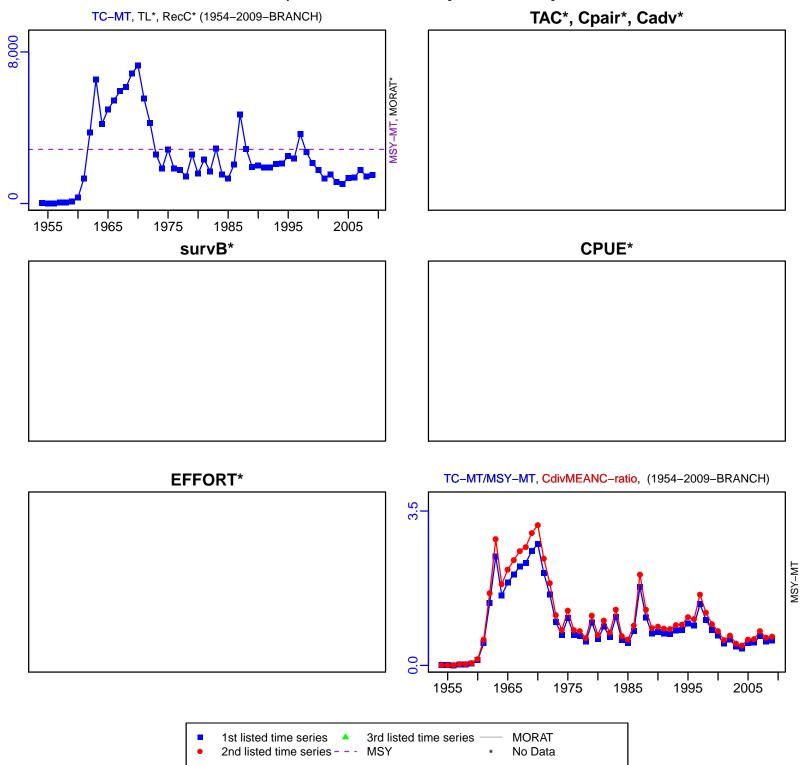
Metadata			
Scientific Name	Kajikia audax		
Current Assess ID	IATTC-STMARLINNEPAC-1954-2009-BRANCH		
Area Northeast Pacific			
Management Authority Inter-American Tropical Tuna Commission			
Assessor Inter-American Tropical Tuna Commission			
Asmts in RAM	2009		

Reference Points				
Type	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	
М	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	-	-	-		



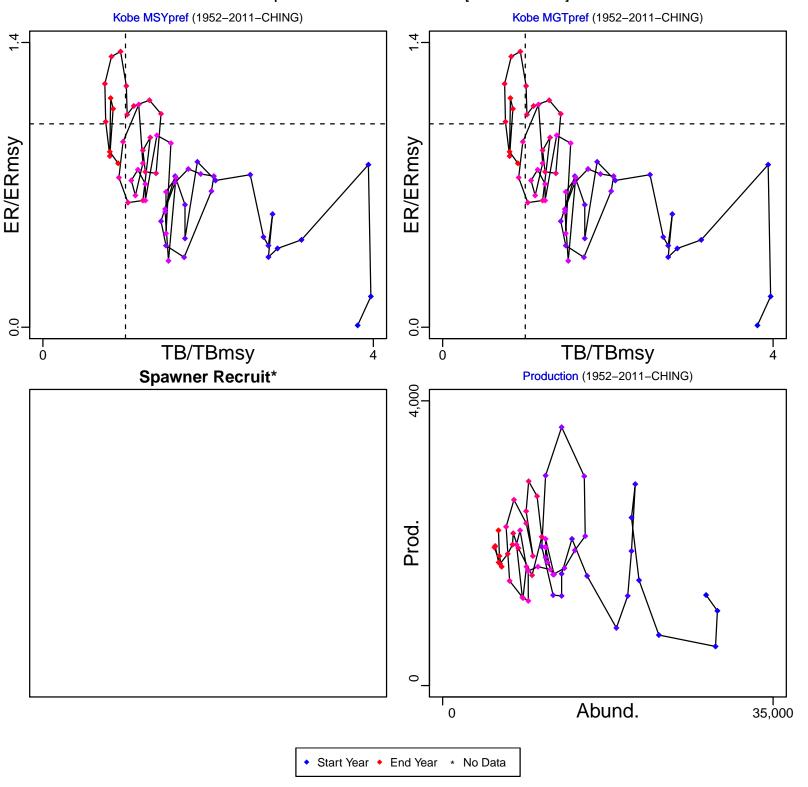


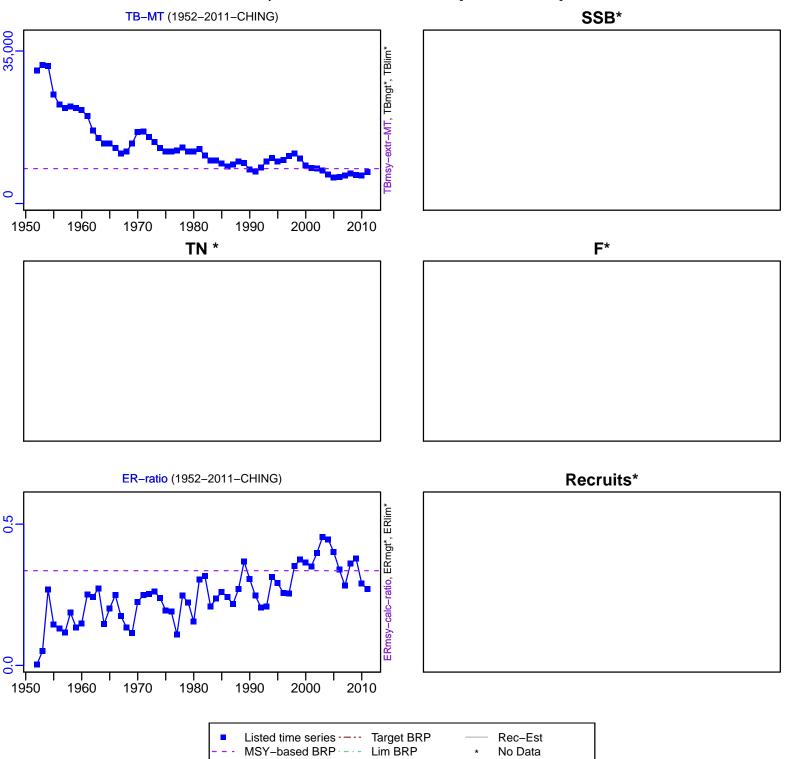


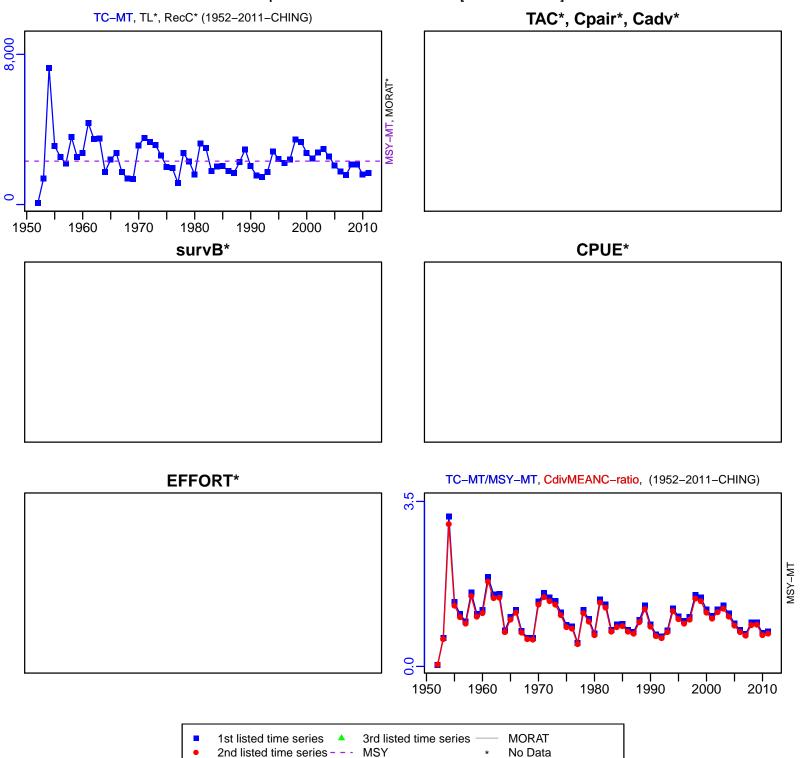
Metadata			
Scientific Name	Kajikia audax		
Current Assess ID SPC-STMARLINSWPO-1952-2011-CHING			
Area Western Pacific Ocean			
Management Authority Western and Central Pacific Fisheries Commission			
Assessor Secretariat of the Pacific Community			
Asmts in RAM	2011		

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	2011	2081	
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	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2011	0.91		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2011	0.81		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2011	0.806		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



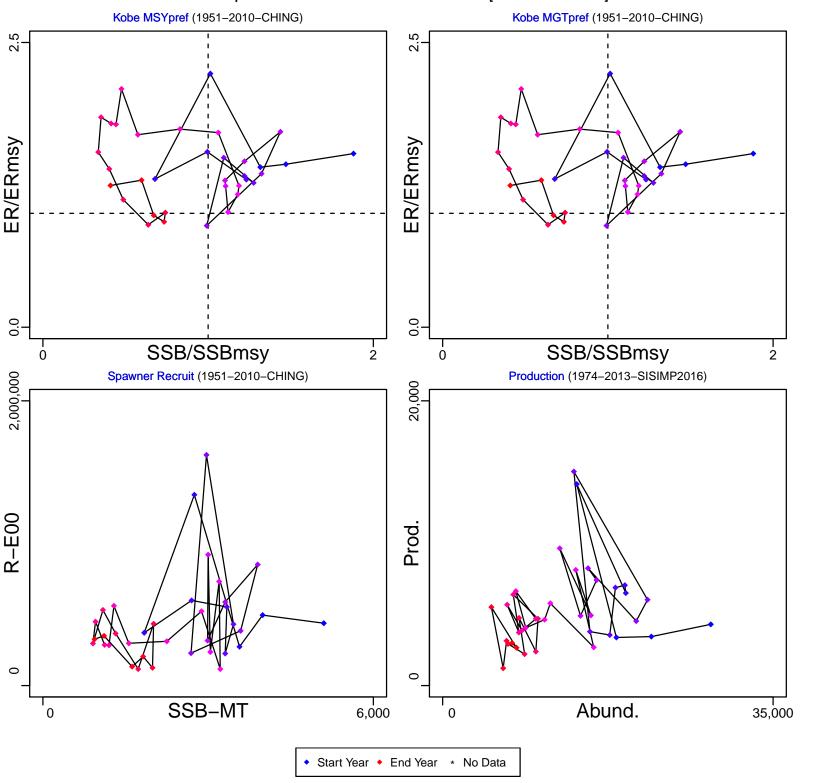


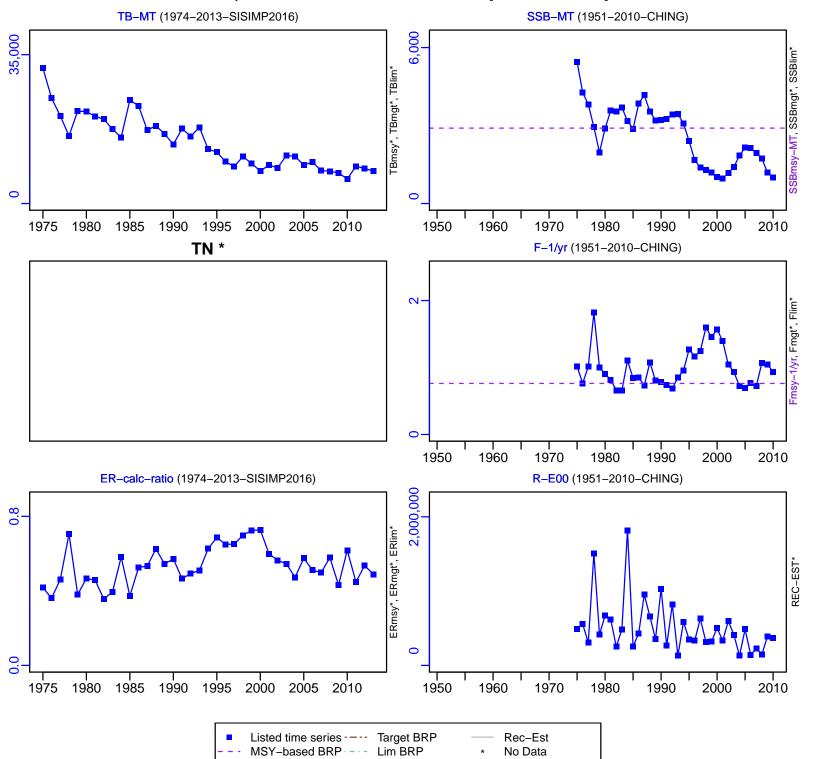


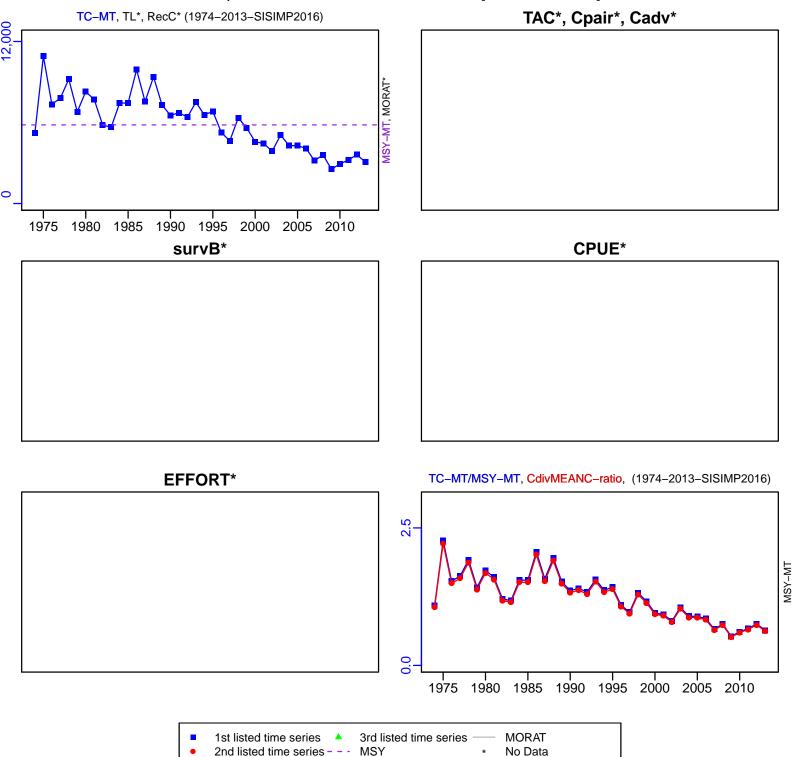
Metadata				
Scientific Name	Kajikia audax			
Current Assess ID	ISC-STMARLINWCNPAC-1974-2013-SISIMP2016			
Area	Western and Central North Pacific			
Management Authority International Scientific Committee for Tuna and Tuna-like Speci				
in the North Pacific Ocean				
Assessor International Scientific Committee for Tuna and Tuna-like Spec				
in the North Pacific Ocean				
Asmts in RAM	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-MT	2010	18,507		
MSY	MSY-MT	2013	5657		
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	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2010	0.35		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2010	0.346		
F/Fmsy	FdivFmsy-dimensionless	2010	1.22		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	1.244		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



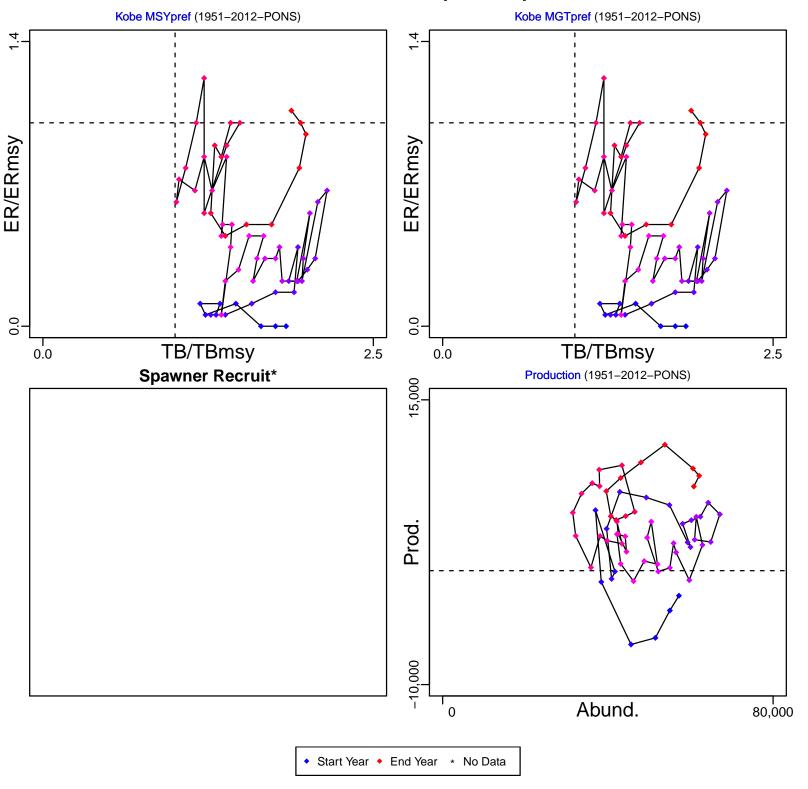


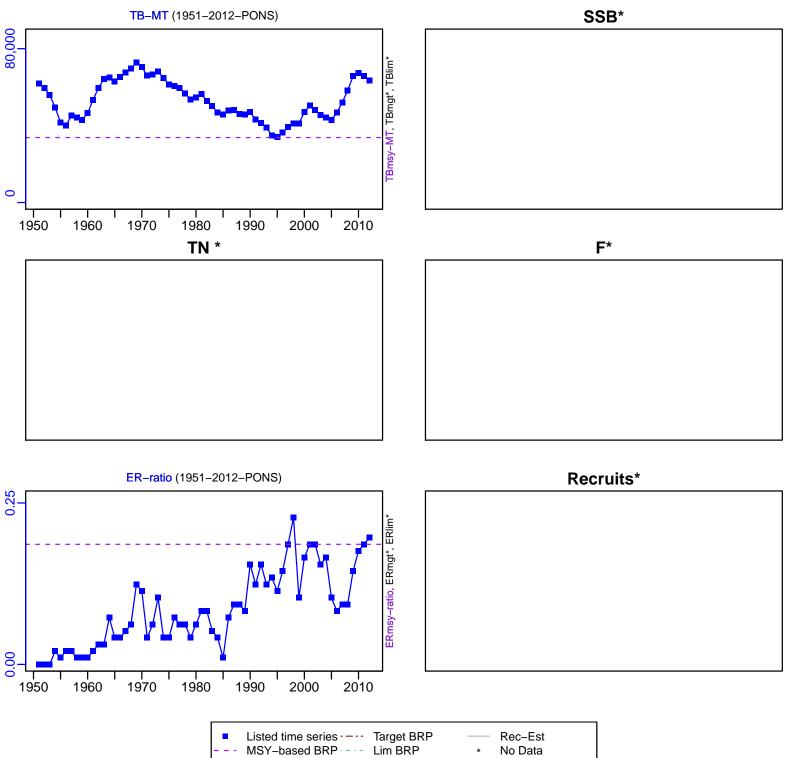


Metadata				
Scientific Name	Xiphias gladius			
Current Assess ID IATTC-SWORDEPAC-1951-2012-PONS				
Area Eastern Pacific				
Management Authority	Inter-American Tropical Tuna Commission			
Assessor Inter-American Tropical Tuna Commiss				
Asmts in RAM	2012			

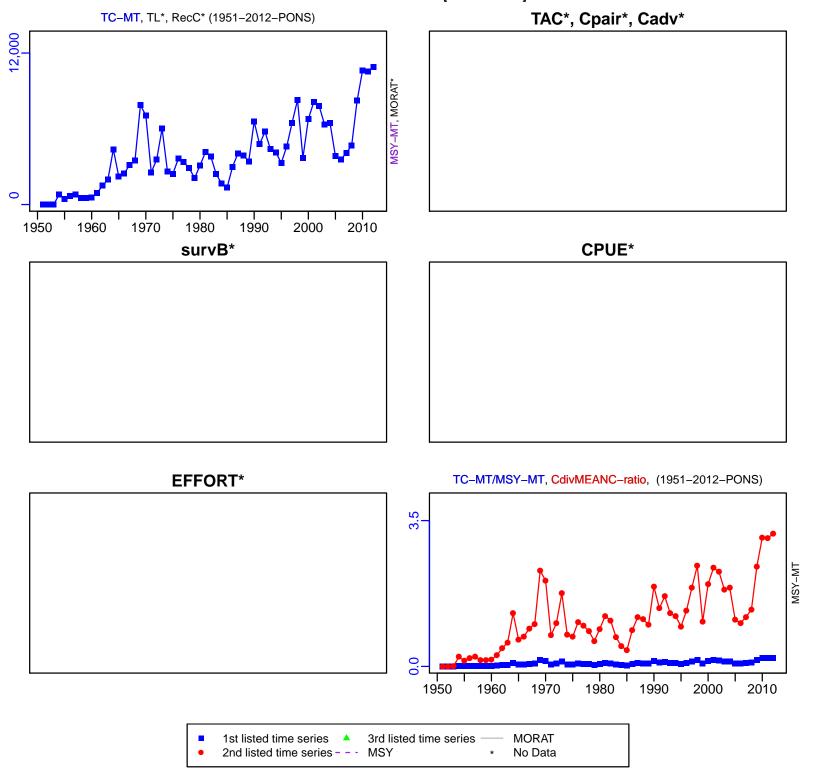
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2012	31,170		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2012	0.18		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2012	57,210		
SSB0	-	-	-		
MSY	MSY-MT	2012	54,900		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-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





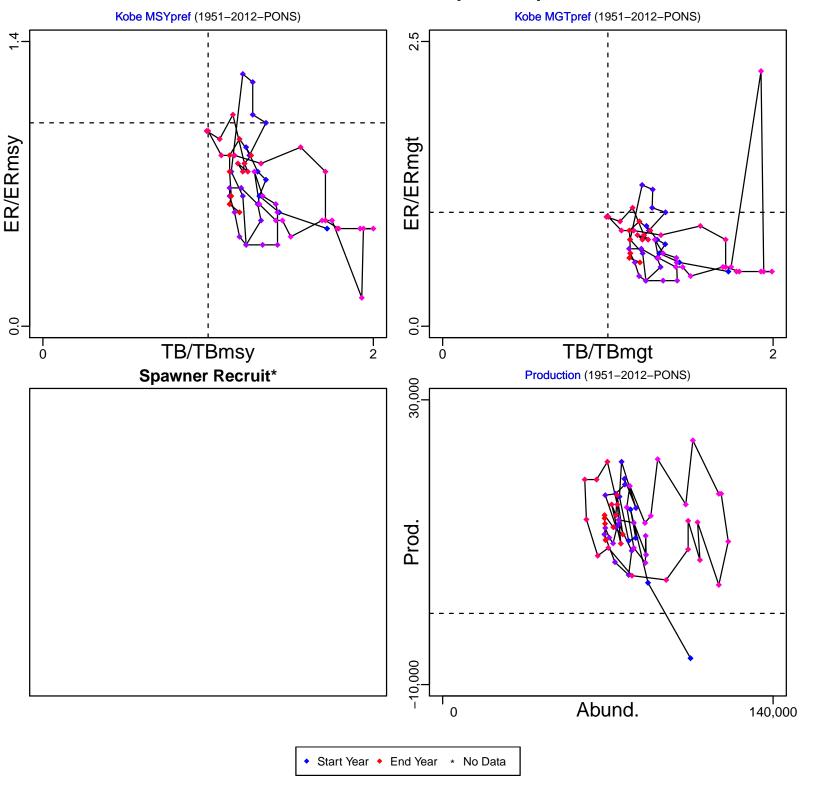
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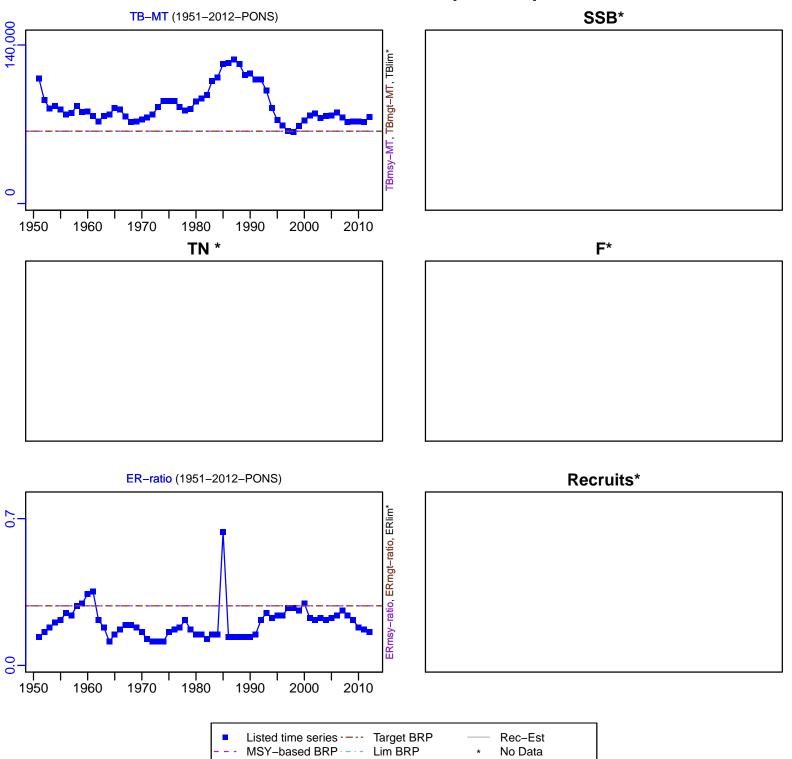


Metadata				
Scientific Name	Xiphias gladius			
Current Assess ID	ISC-SWORDNPAC-1951-2012-PONS			
Area	North Pacific Ocean			
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean			
Assessor	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean			
Asmts in RAM	2012			

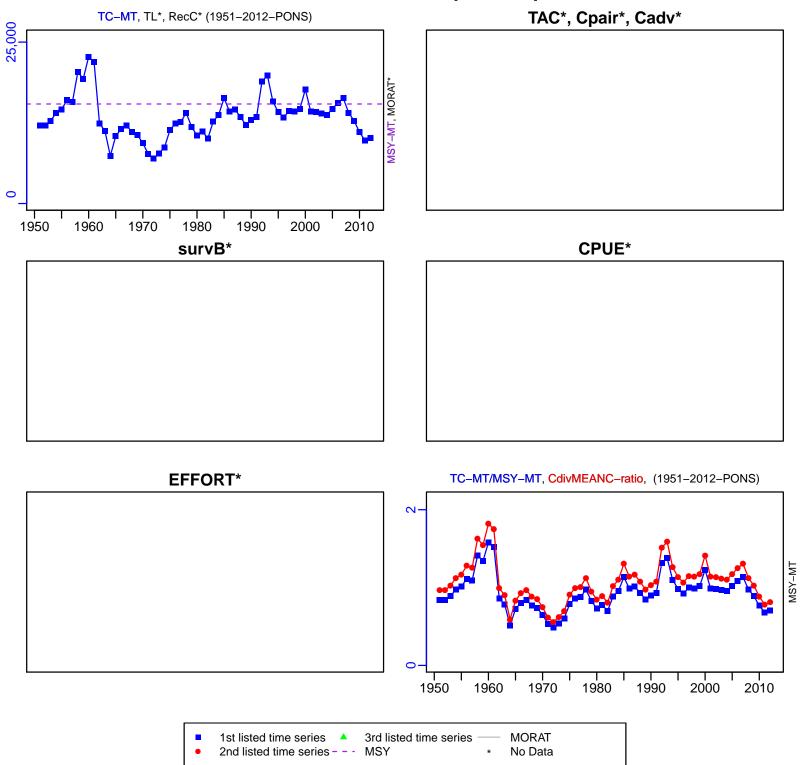
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2012	60,720		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2012	0.25		
TBmgt	TBmgt-MT	2012	60,720		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	ERmgt-ratio	2012	0.25		
TB0	TB0-MT	2012	104,600		
SSB0	-	-	-		
MSY	MSY-MT	2012	14,920		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	72,500	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0.14	-	-
TC	TC-MT	2012	9860		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	1.19		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2012	0.56		
TB/TBmgt	TB-MT/TBmgt-MT	2012	1.194		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





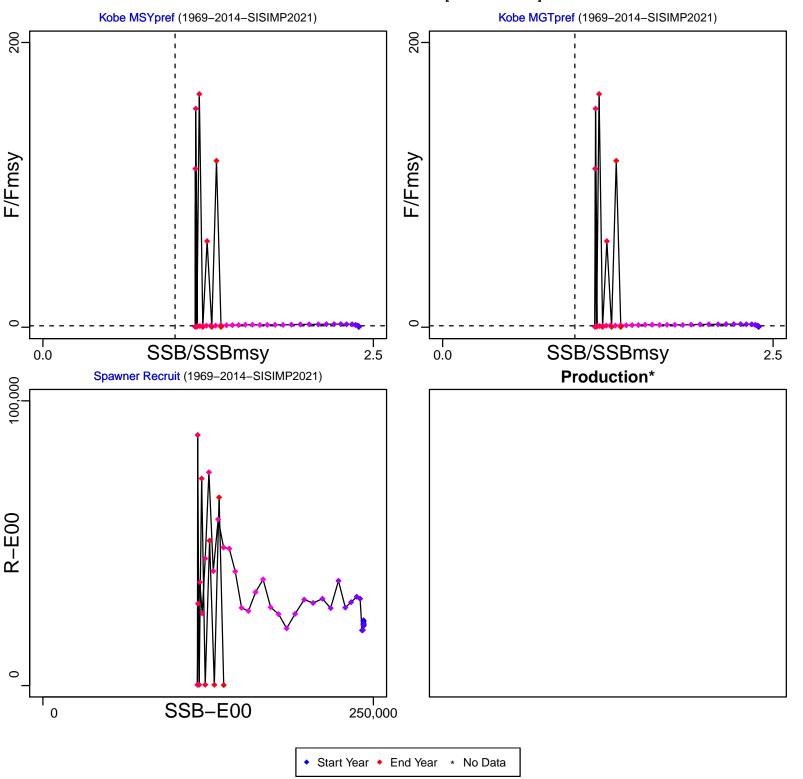
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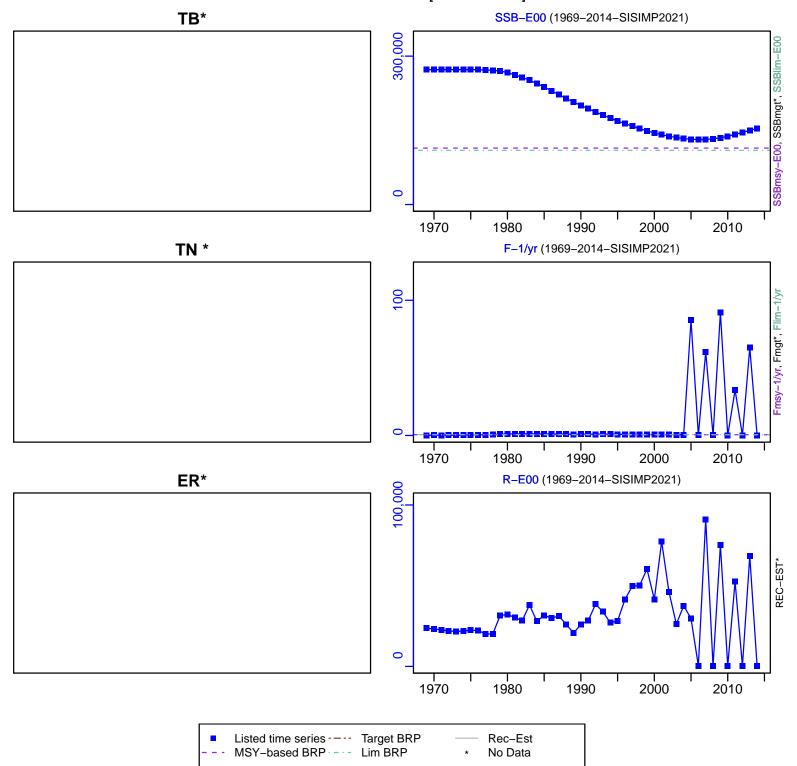


Metadata				
Scientific Name	Alopias vulpinus			
Current Assess ID	SWFSC-THRSHARNPAC-1969-2014-SISIMP2021			
Area	North Pacific			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Southwest Fisheries Science Center			
Asmts in RAM	2014			

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-E00	2014	101,500		
Fmsy	Fmsy-1/yr	2014	0.45		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-E00	2014	97,500		
Flim	Flim-1/yr	2014	0.45		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-E00	2014	136,800	-	-
TN	-	-	-	-	-
R	R-E00	2014	180	-	-
F	F-1/yr	2014	0.09	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00/SSBmsy-E00	2014	1.348		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	0.2		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





TC*, TL*, RecC*	TAC*, Cpair*, Cadv*
survB*	CPUE*
EFFORT*	CdivMSY*
ZII OKI	
<u></u>	
■ 1st listed time series ▲ 3rd	listed time series — MORAT

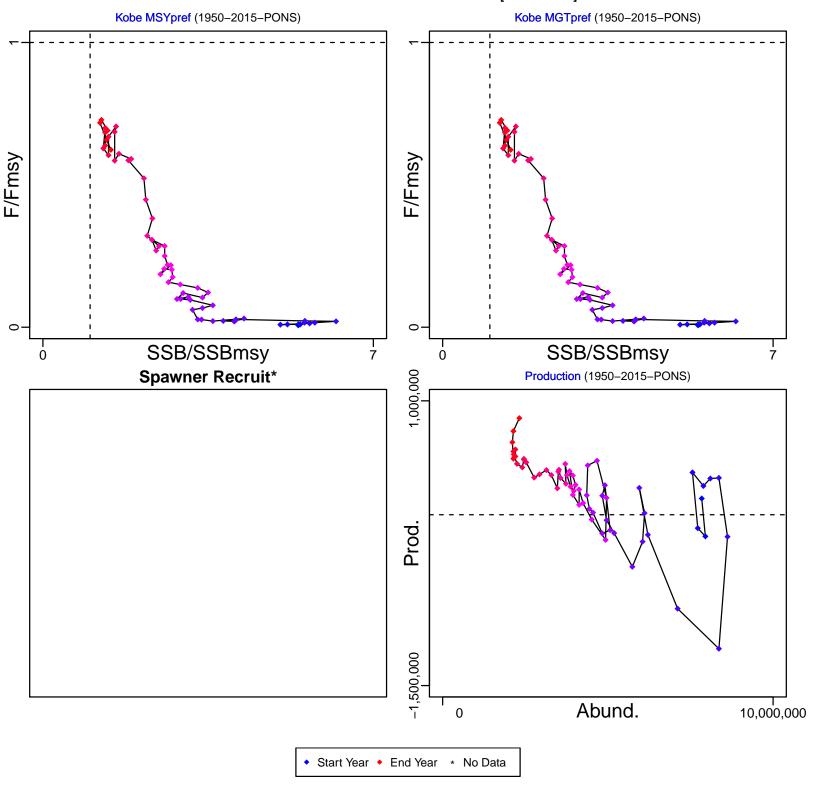
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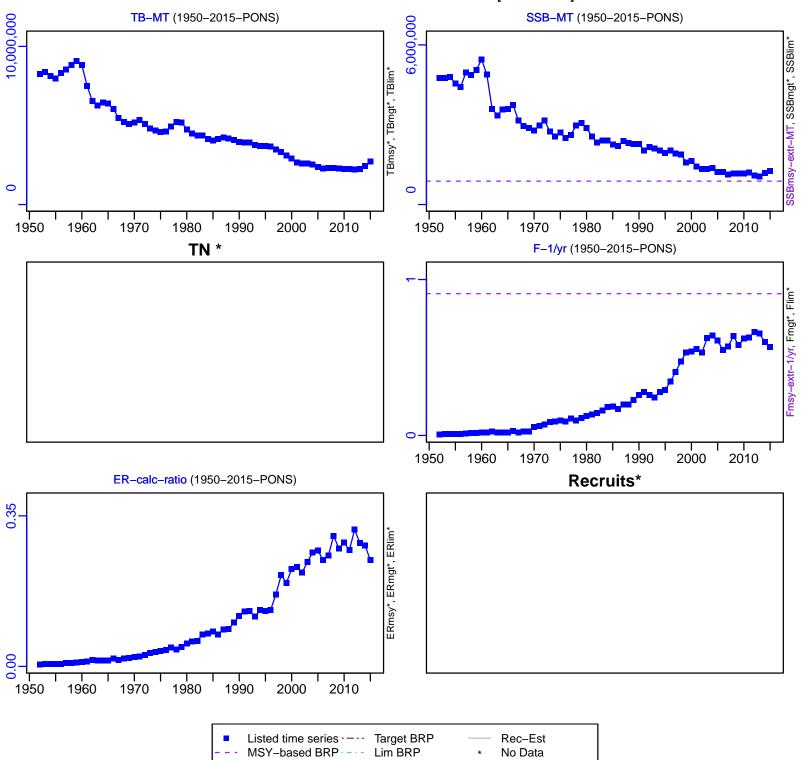
2nd listed time series - - - MSY

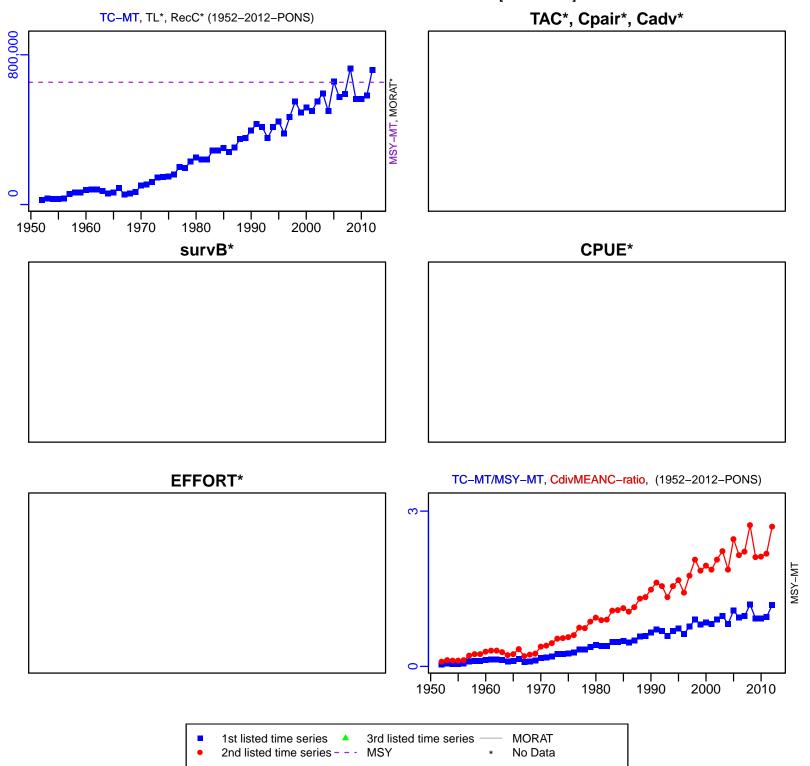
Metadata			
Scientific Name	Thunnus albacares		
Current Assess ID SPC-YFINCWPAC-1950-2015-PONS			
Area Central Western Pacific Ocean			
Management Authority Western and Central Pacific Fisheries Commission			
Assessor	Secretariat of the Pacific Community		
Asmts in RAM	2015, 2012		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-extr-MT	2015	841,027	
Fmsy	Fmsy-extr-1/yr	2015	0.85	
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	2012	586,400	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	2,580,000	-	-
SSB	SSB-MT	2015	1,210,000	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2015	0.529	-	-
ER	ER-calc-ratio	2015	0.223	-	-
TC	TC-MT	2012	646,000		
TL	TL-MT	2015	576,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	1.19		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	1.44		
F/Fmsy	FdivFmsy-dimensionless	2015	0.623		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	7.989		
ER/ERmgt	-	-	-		







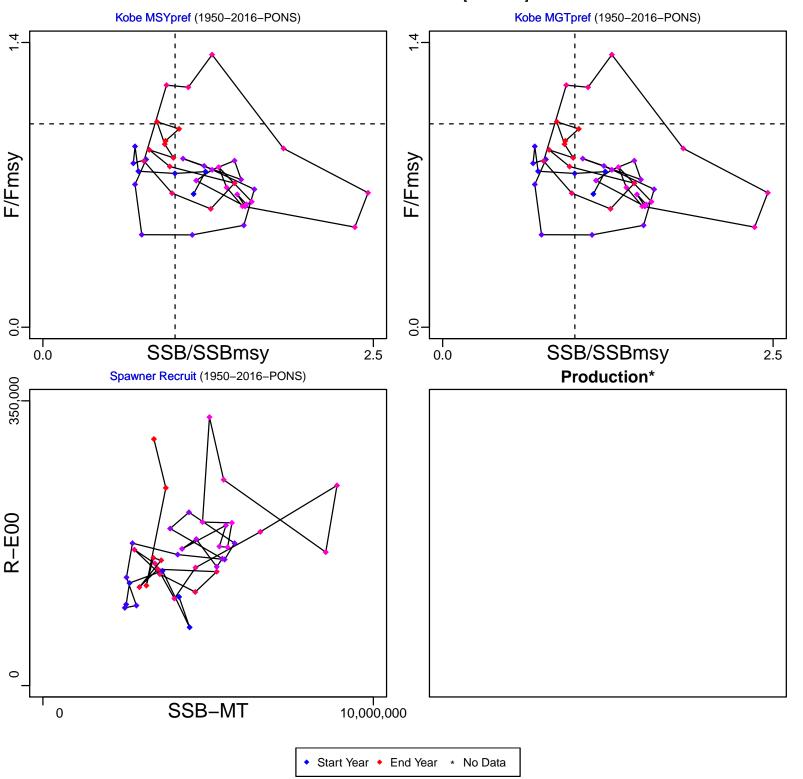
Yellowfin tuna Eastern Pacific [YFINEPAC]

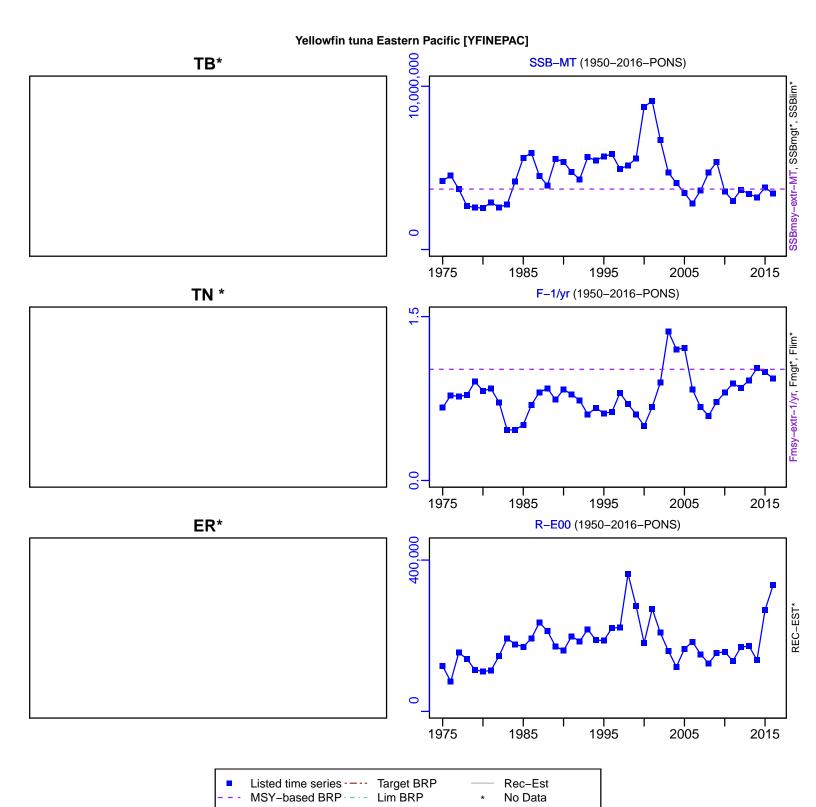
Metadata		
Scientific Name Thunnus albacares		
Current Assess ID IATTC-YFINEPAC-1950-2016-PONS		
Area Eastern Pacific		
Management Authority Inter-American Tropical Tuna Commis		
Assessor	Inter-American Tropical Tuna Commission	
Asmts in RAM 2012, 2016		

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	2016	274,960	
М	-	-	-	
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	2016	252,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	1.07		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2016	0.928		
F/Fmsy	FdivFmsy-dimensionless	2016	0.916		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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