# **Pacific Ocean Stocks**

v4.25 (Dec-14-2017)

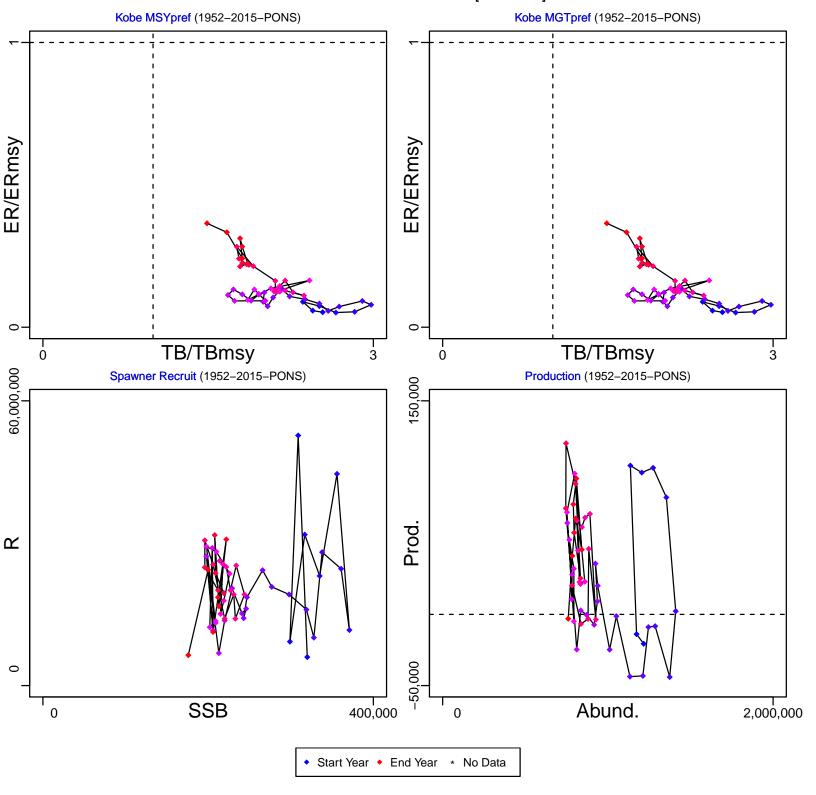
- 1. Albacore tuna South Pacific Ocean [ALBASPAC]
- 2. Bigeye tuna Central Western Pacific [BIGEYECWPAC]
- 3. Bigeye tuna Eastern Pacific [BIGEYEEPAC]
- 4. Bigeye tuna Western Pacific Ocean [BIGEYEWPO]
- 5. Blue shark North Pacific [BLSHARNPAC]
- 6. Blue marlin Pacific Ocean [BMARLINPAC]
- 7. Pacific bluefin tuna Pacific Ocean [PACBTUNA]
- 8. Shortfin mako Nothwest Pacific Ocean [SFMAKONWPAC]
- 9. Skipjack tuna Central Western Pacific [SKJCWPAC]
- 10. Striped marlin Northeast Pacific [STMARLINNEPAC]
- 11. Striped marlin Southwestern Pacific Ocean [STMARLINSWPO]
- 12. Striped marlin Western and Central North Pacific [STMARLINWCNPAC]
- 13. Swordfish Eastern Pacific [SWORDEPAC]
- 14. Swordfish North Pacific [SWORDNPAC]
- 15. Yellowfin tuna Central Western Pacific [YFINCWPAC]
- 16. Yellowfin tuna Eastern Pacific [YFINEPAC]

## Albacore tuna South Pacific Ocean [ALBASPAC]

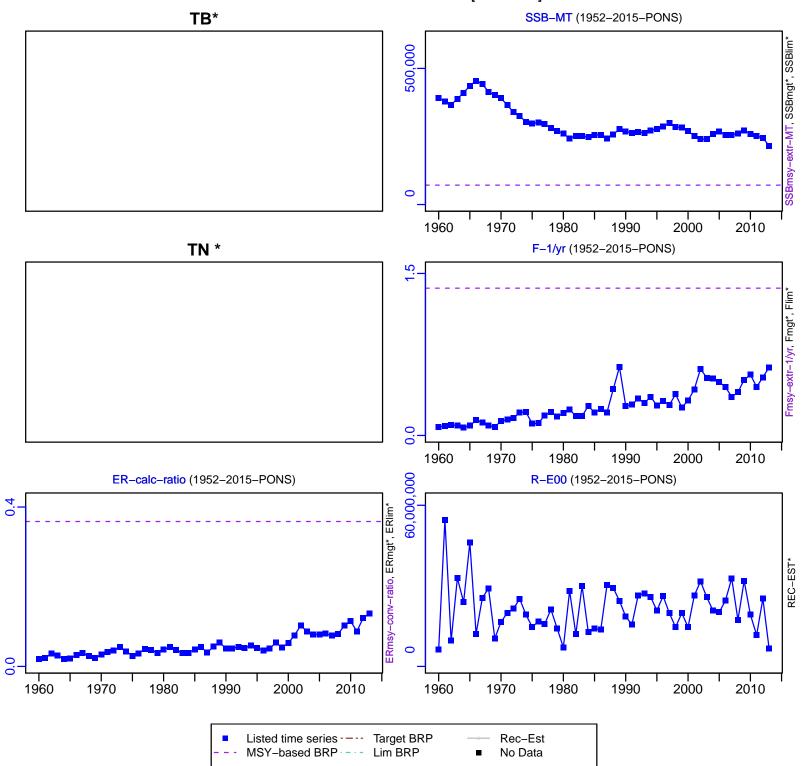
Metadata			
Scientific Name	Thunnus alalunga		
Current Assess ID	SPC-ALBASPAC-1952-2015-PONS		
Area South Pacific Ocean			
Management Authority	Western and Central Pacific Fisheries Commission		
Assessor	Secretariat of the Pacific Community		
Asmts in RAM	2015, 2010		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2010	835,200	
SSBmsy	SSBmsy-extr-MT	2015	58,130	
Fmsy	Fmsy-extr-1/yr	2015	1.32	
ERmsy	ERmsy-calc-ratio	2010	0.12	
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	
М	M-1/yr	2010	0.4	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

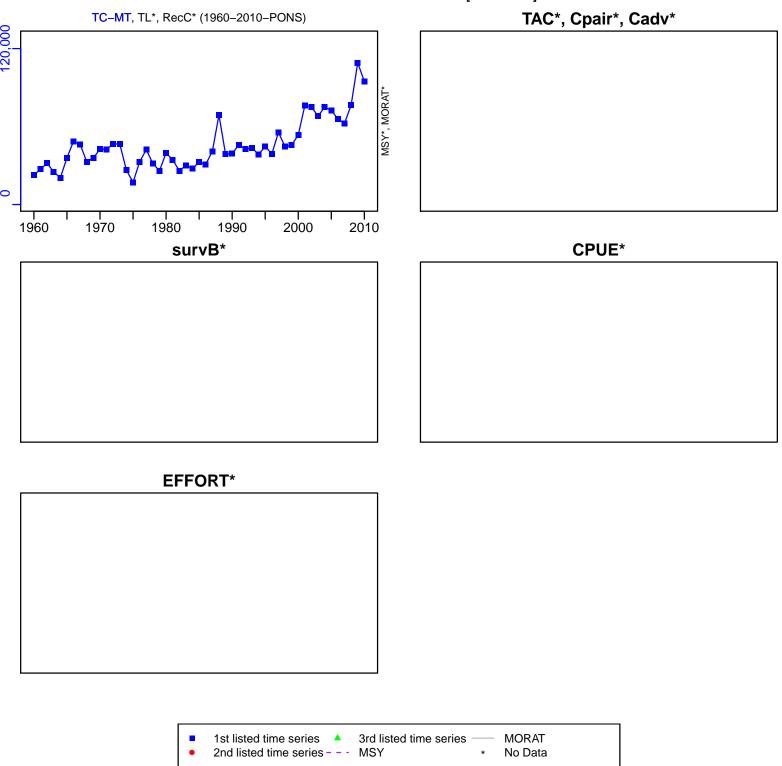
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2015	176,000	-	-
TN	-	-	-	-	-
R	R-E00	2015	6,410,000	-	-
F	F-1/yr	2015	1	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2010	88,500		
TL	TL-MT	2015	68,300		
TB/TBmsy	TBdivTBmsy-dimensionless	2015	1.49		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	2.86		
F/Fmsy	FdivFmsy-dimensionless	2015	0.47		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2015	0.36		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Albacore tuna South Pacific Ocean [ALBASPAC]



#### Albacore tuna South Pacific Ocean [ALBASPAC]

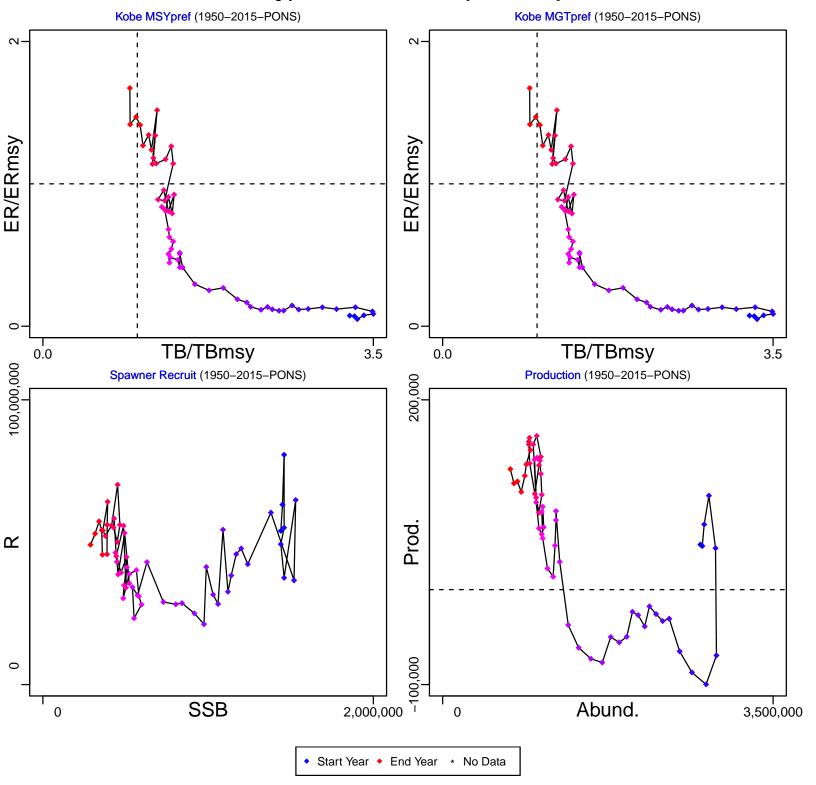


# Bigeye tuna Central Western Pacific [BIGEYECWPAC]

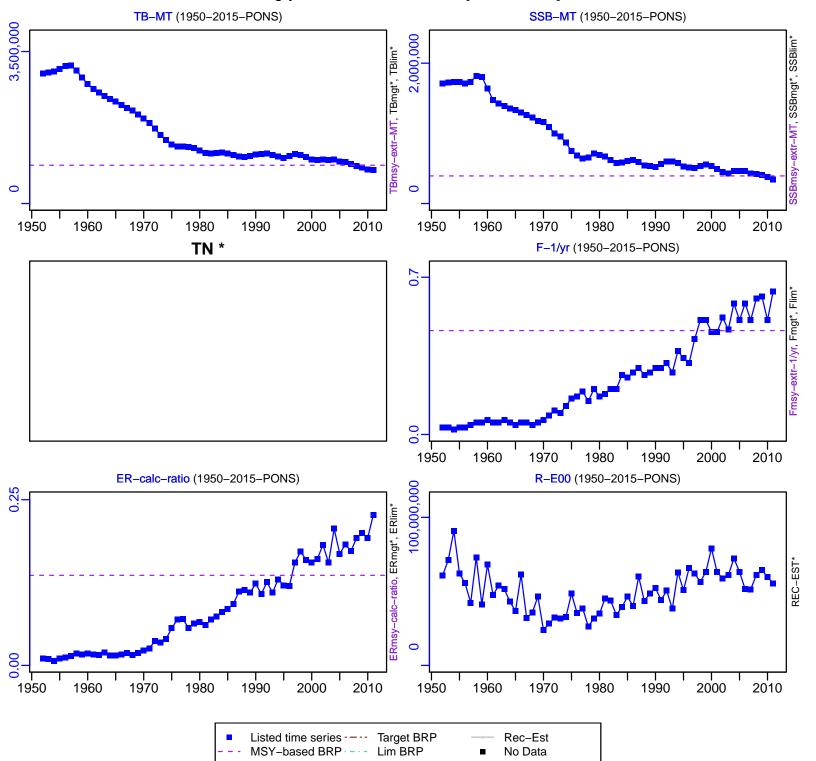
Metadata			
Scientific Name	Thunnus obesus		
Current Assess ID	SPC-BIGEYECWPAC-1950-2015-PONS		
Area Central Western Pacific Ocean			
Management Authority	Western and Central Pacific Fisheries Commission		
Assessor	Secretariat of the Pacific Community		
Asmts in RAM	2015, 2012		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2015	803,646	
SSBmsy	SSBmsy-extr-MT	2015	331,126	
Fmsy	Fmsy-extr-1/yr	2015	0.44	
ERmsy	ERmsy-calc-ratio	2015	0.14	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2012	345,400	
Fmgt	Fmgt-1/yr	2012	0.04	
ERmgt	-	-	-	
TB0	TB0-MT	2012	2,286,000	
SSB0	SSB0-MT	2012	1,207,000	
MSY	MSY-MT	2015	108,520	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

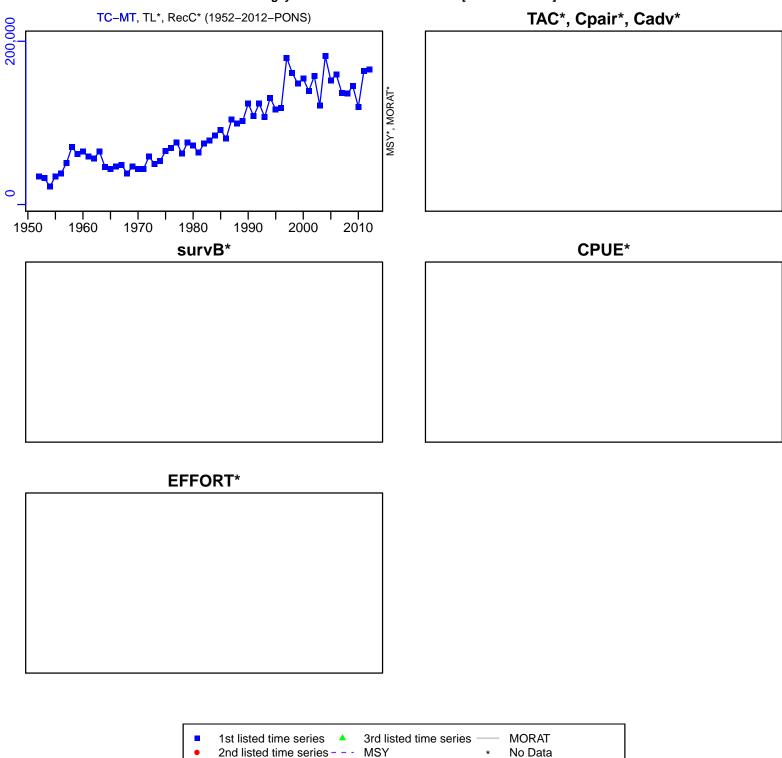
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	707,000	-	-
SSB	SSB-MT	2015	288,000	-	-
TN	-	-	-	-	-
R	R-E00	2015	49,100,000	-	-
F	F-1/yr	2015	1	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2012	162,000		
TL	TL-MT	2015	135,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2015	0.92		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	0.86		
F/Fmsy	FdivFmsy-dimensionless	2015	1.61		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	1.67		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Bigeye tuna Central Western Pacific [BIGEYECWPAC]



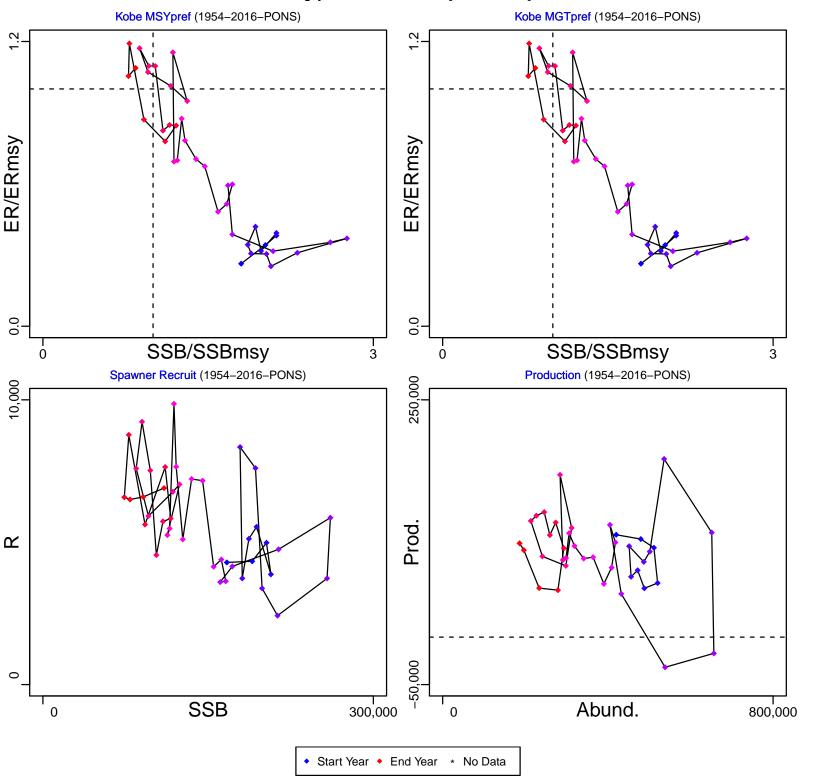
### Bigeye tuna Central Western Pacific [BIGEYECWPAC]

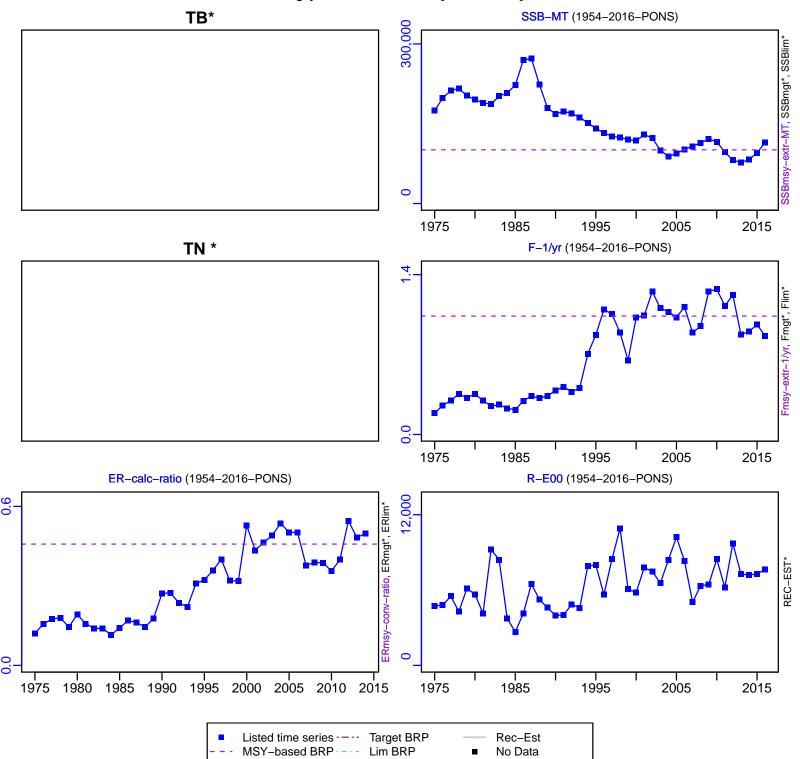


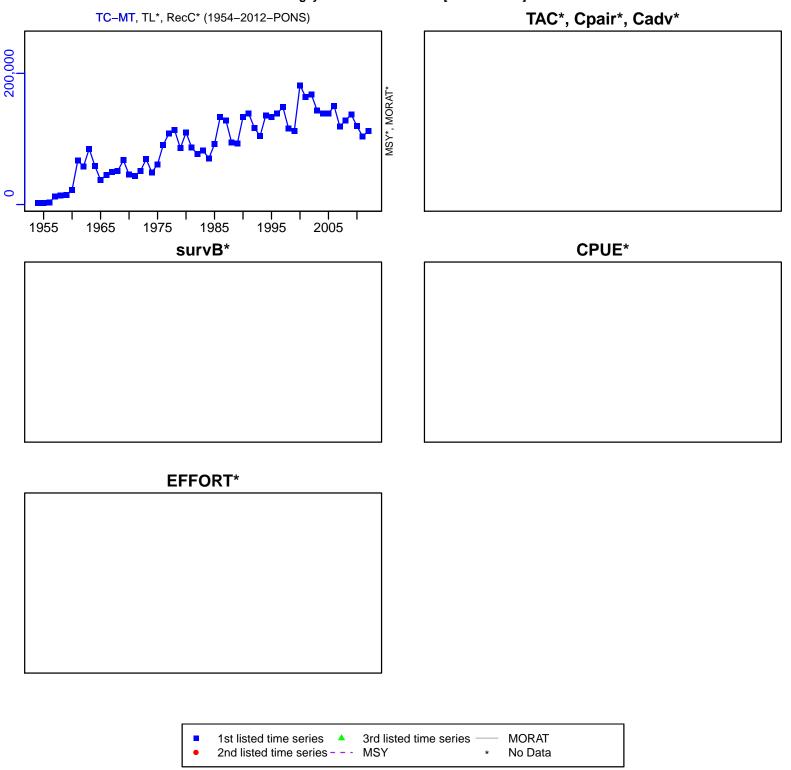
Metadata			
Scientific Name	Thunnus obesus		
Current Assess ID	IATTC-BIGEYEEPAC-1954-2016-PONS		
Area Eastern Pacific			
Management Authority	Inter-American Tropical Tuna Commission		
Assessor	Inter-American Tropical Tuna Commission		
Asmts in RAM	2012, 2016		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2012	420,280	
SSBmsy	SSBmsy-extr-MT	2016	96,555	
Fmsy	Fmsy-extr-1/yr	2016	0.99	
ERmsy	ERmsy-calc-ratio	2012	0.26	
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	1	-	-
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2012	88,000		
TL	TL-MT	2016	94,700		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	0.94		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2016	1.19		
F/Fmsy	FdivFmsy-dimensionless	2016	0.83		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2016	1.09		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



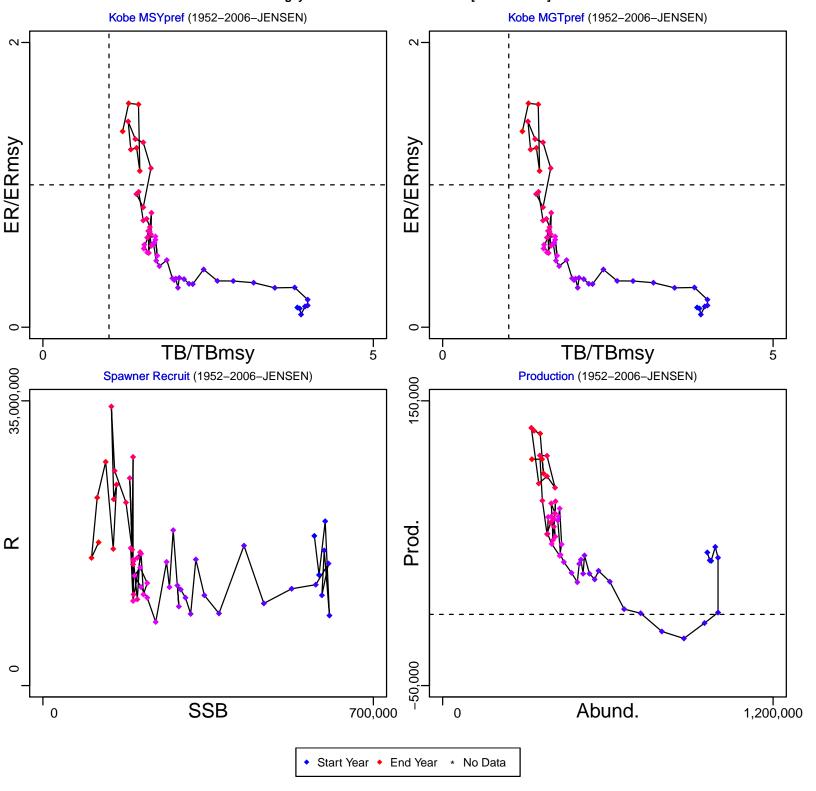


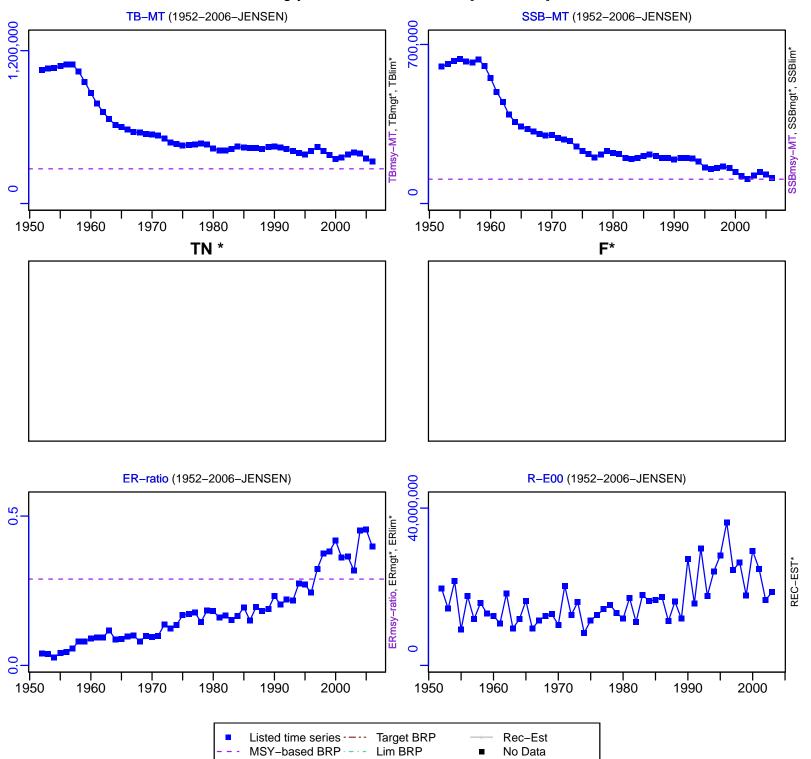


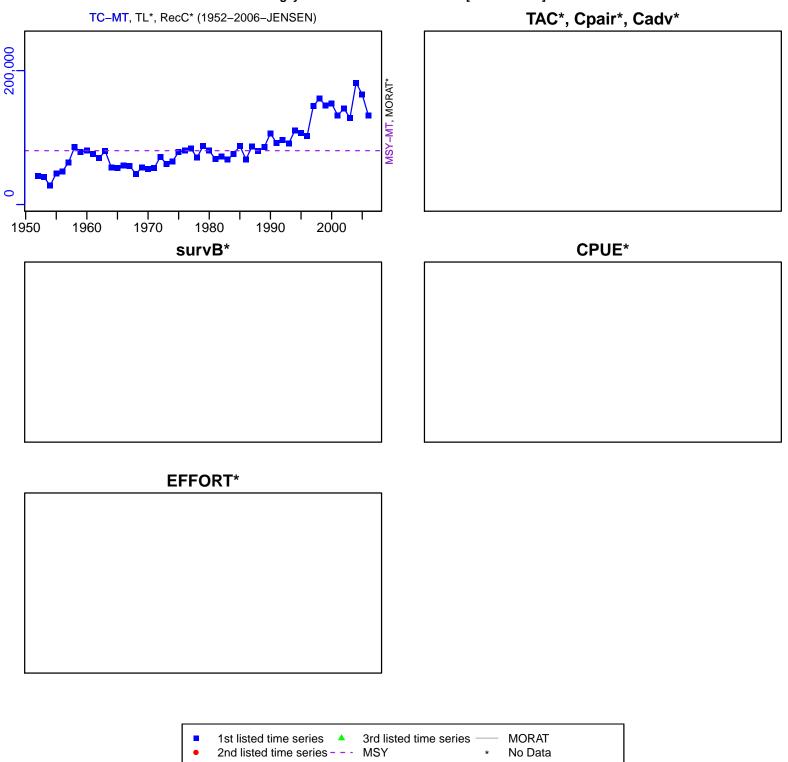
Metadata			
Scientific Name	Thunnus obesus		
Current Assess ID	SPC-BIGEYEWPO-1952-2006-JENSEN		
Area Western Pacific Ocean			
Management Authority	Western and Central Pacific Fisheries Commission		
Assessor	Secretariat of the Pacific Community		
Asmts in RAM	2006		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2006	249,600	
SSBmsy	SSBmsy-MT	2006	102,200	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2006	0.26	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2006	64,600	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2006	301,000	-	-
SSB	SSB-MT	2006	108,000	Both	-
TN	-	-	-	-	-
R	R-E00	2006	17,600,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2006	0	-	-
TC	TC-MT	2006	107,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2006	1.21		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2006	1.06		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	1.38		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	•	-	-		
ER/ERmgt	-	-	-		





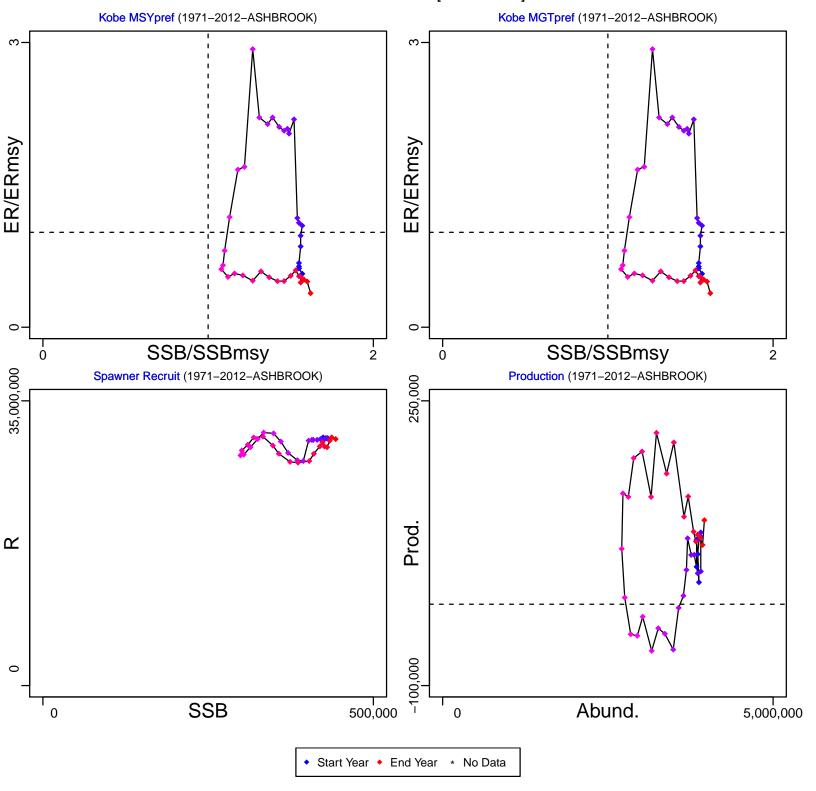


# Blue shark North Pacific [BLSHARNPAC]

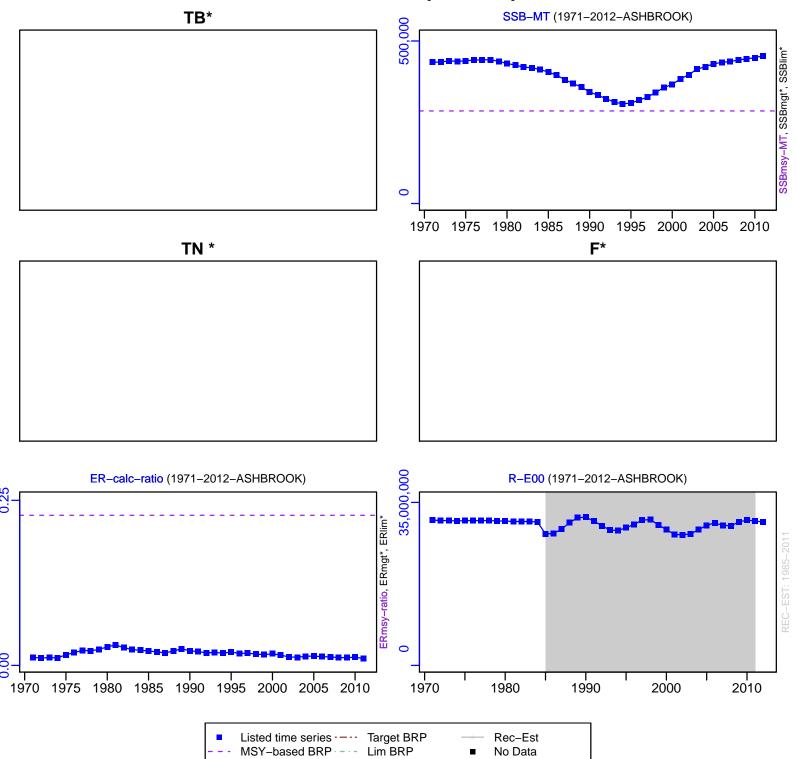
Metadata			
Scientific Name	Prionace glauca		
Current Assess ID ISC-BLSHARNPAC-1971-2012-ASHBROOK			
Area North Pacific Ocean			
Management Authority International Scientific Committee for Tuna and Tuna-like Specin the North Pacific Ocean			
Assessor International Scientific Committee for Tuna and Tuna-like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

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2012	277,565		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2012	0.22		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2012	593,707		
MSY	MSY-MT	2012	72,123		
М	M-1/yr	2012	0.14		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

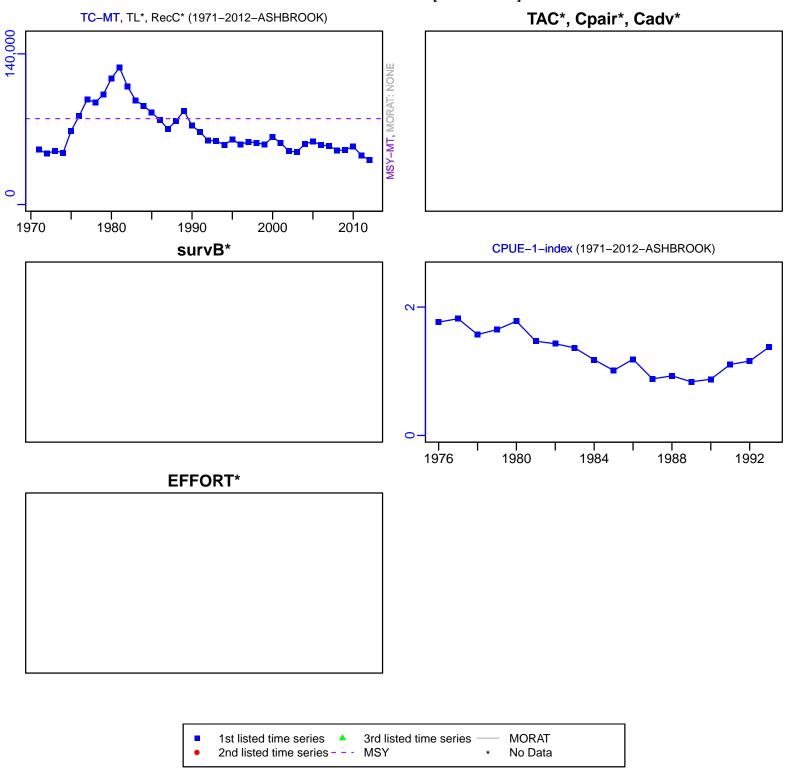
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2012	443,000	Females	5+
TN	-	-	-	-	-
R	R-E00	2012	30,100,000	Both	0
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	37,300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2012	1.62		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2012	0.36		
TB/TBmgt	-	-	-		
SSB/SSBmgt	1	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Blue shark North Pacific [BLSHARNPAC]



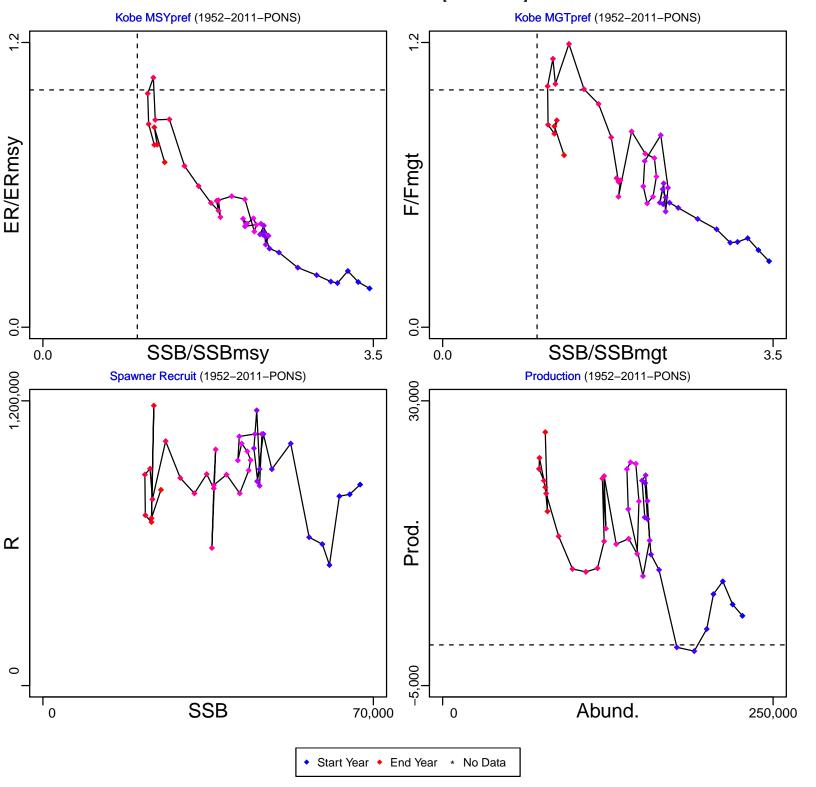
#### Blue shark North Pacific [BLSHARNPAC]

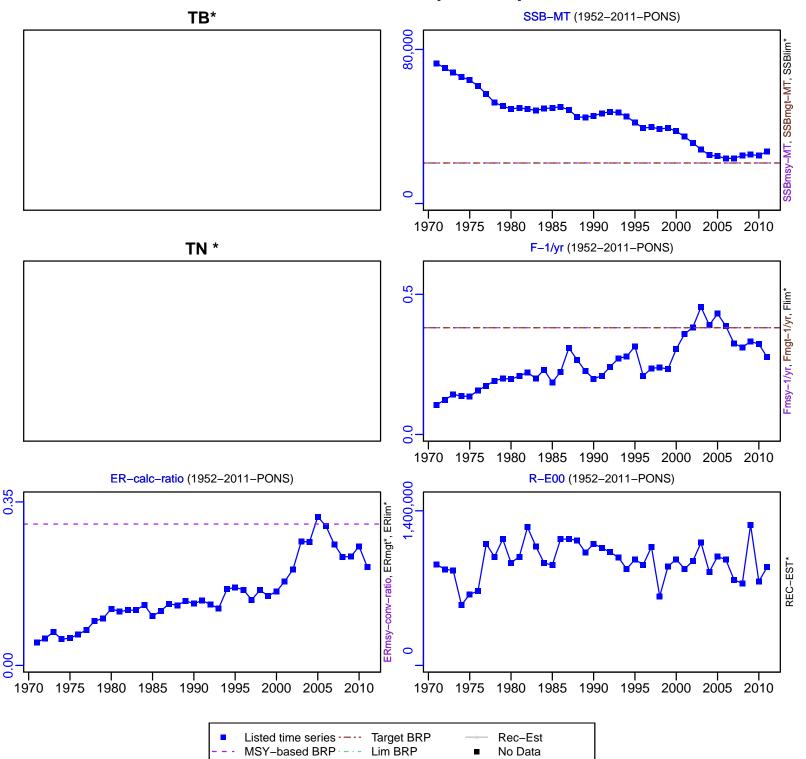


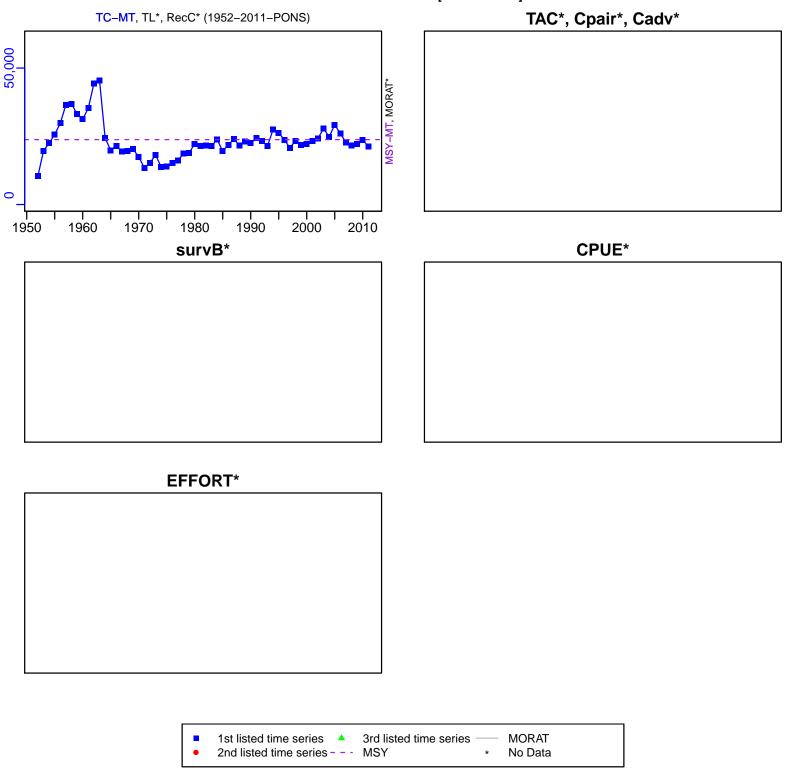
	Metadata			
Scientific Name	Makaira nigricans			
Current Assess ID ISC-BMARLINPAC-1952-2011-PONS				
Area Pacific Ocean				
Management Authority International Scientific Committee for Tuna and Tuna-like Special in the North Pacific Ocean				
Assessor International Scientific Committee for Tuna and Tuna-like Spe 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	ERmsy-conv-ratio	2011	0.3	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2011	19,437	
Fmgt	Fmgt-1/yr	2011	0.32	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2011	19,459	
М	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	-	-
ER	ER-calc-ratio	2011	0	-	-
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	ER-calc-ratio/ERmsy-conv-ratio	2011	0.7		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	1.29		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	0.72		
ER/ERmgt	-	-	-		



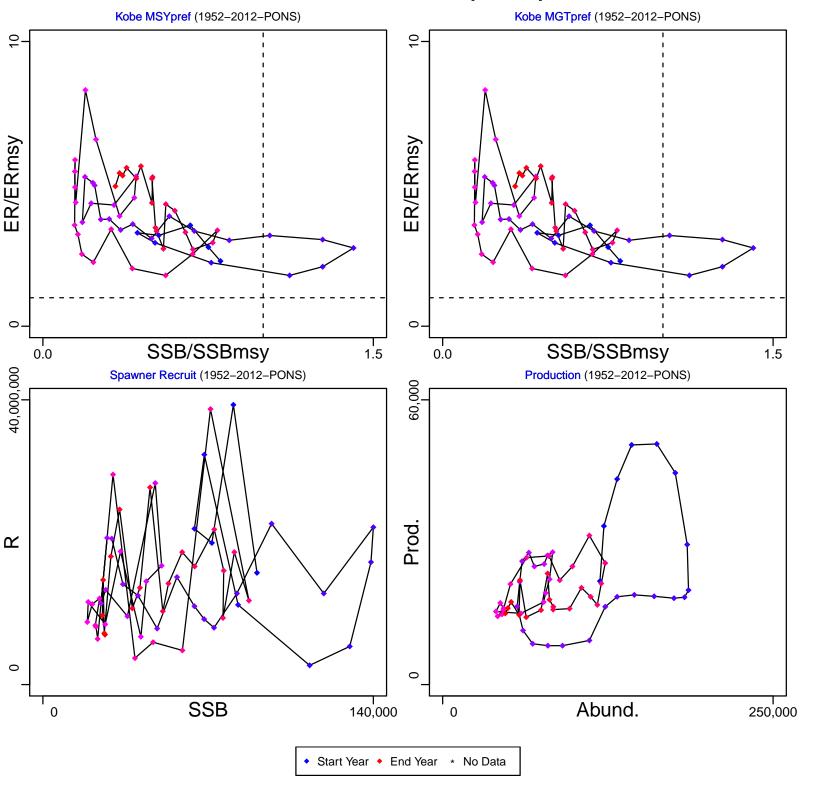


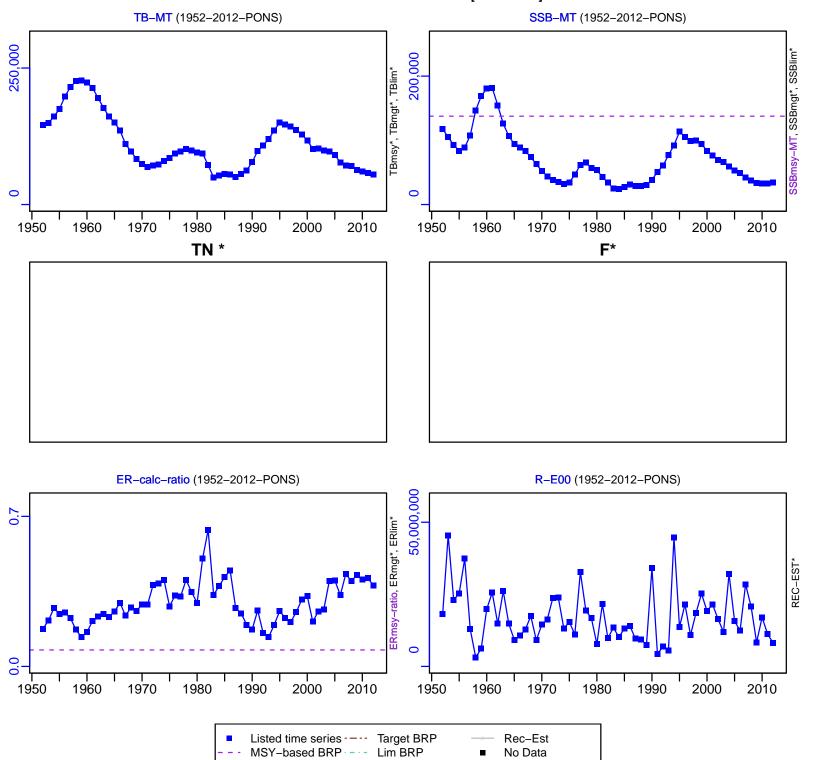


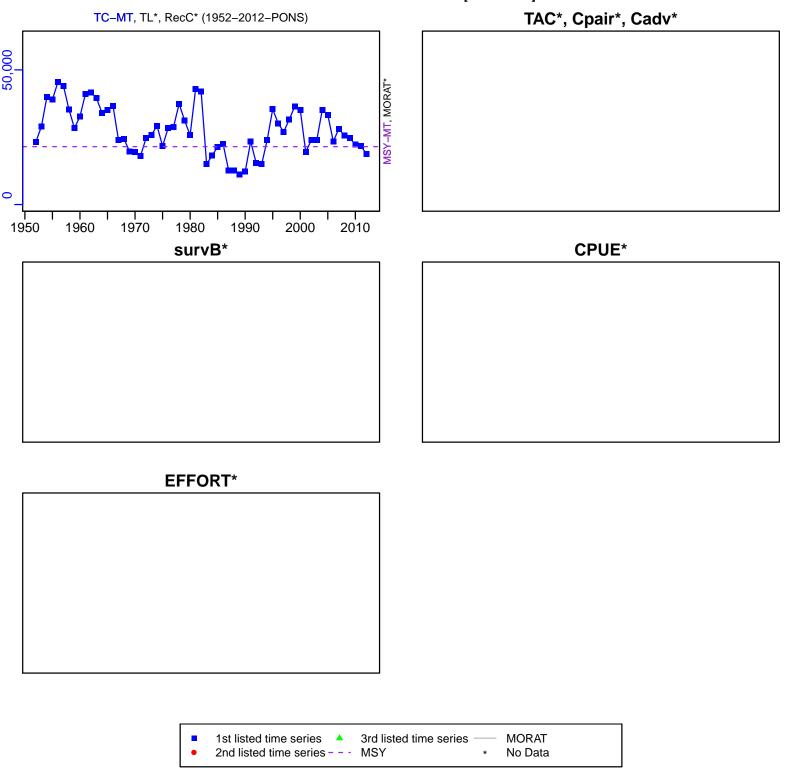
Metadata			
Scientific Name	Thunnus orientalis		
Current Assess ID ISC-PACBTUNA-1952-2012-PONS			
Area Pacific Ocean			
Management Authority International Scientific Committee for Tuna and Tuna-like Speci in the North Pacific Ocean			
Assessor International Scientific Committee for Tuna and Tuna-like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

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2012	105,960		
Fmsy	Fmsy-1/yr	2012	0.12		
ERmsy	ERmsy-ratio	2012	0.07		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2012	17,345		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	44,800	-	-
SSB	SSB-MT	2012	26,300	-	-
TN	-	-	-	-	-
R	R-E00	2012	7,010,000	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	15,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2012	0.33		
F/Fmsy	FdivFmsy-dimensionless	2012	1.79		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2012	4.91		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







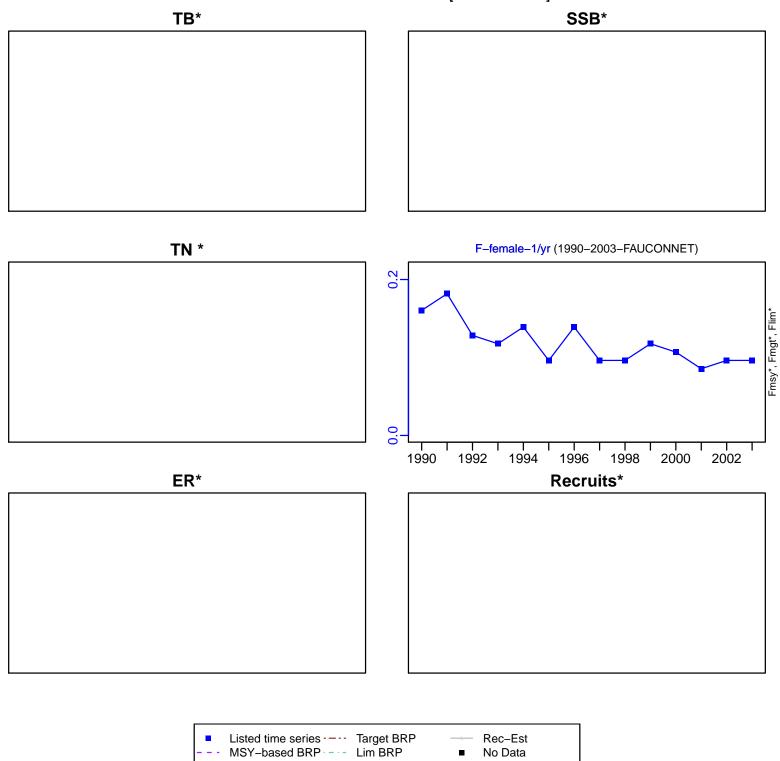
Metadata			
Scientific Name	Isurus oxyrinchus		
Current Assess ID IMARM-SFMAKONWPAC-1990-2003-FAUCONNET			
Area Nothwest Pacific Ocean			
Management Authority Unknown management body			
Assessor Institute of Marine Affairs and Resource Management - National			
Taiwan Ocean University, 2 Pei-Ning Road,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

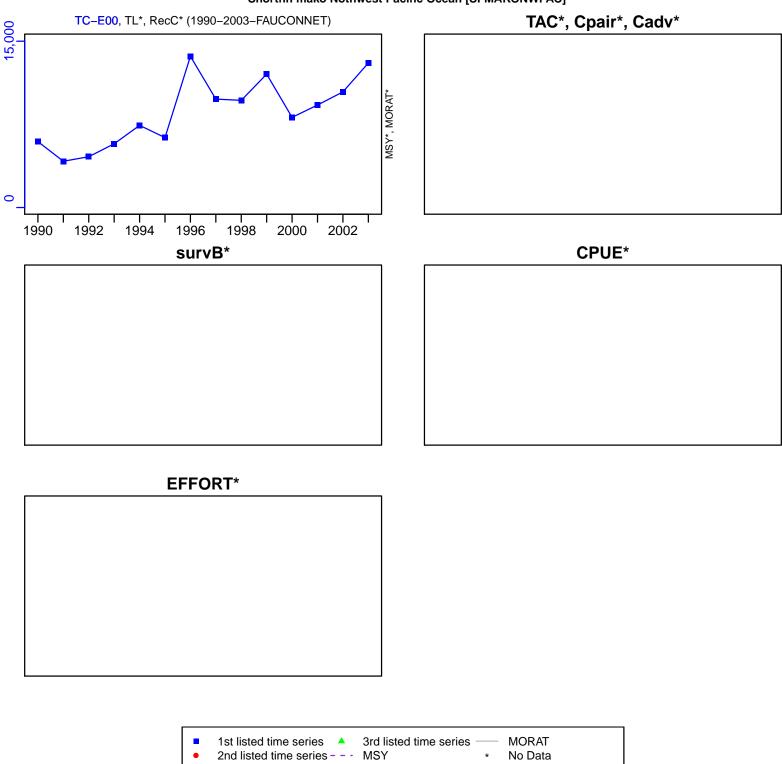
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-female-1/yr	2003	0	-	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	-	-	-		

Kobe MSY*	Kobe MGT*		
	J		
Spawner Recruit*	Production*		

◆ Start Year ◆ End Year \* No Data



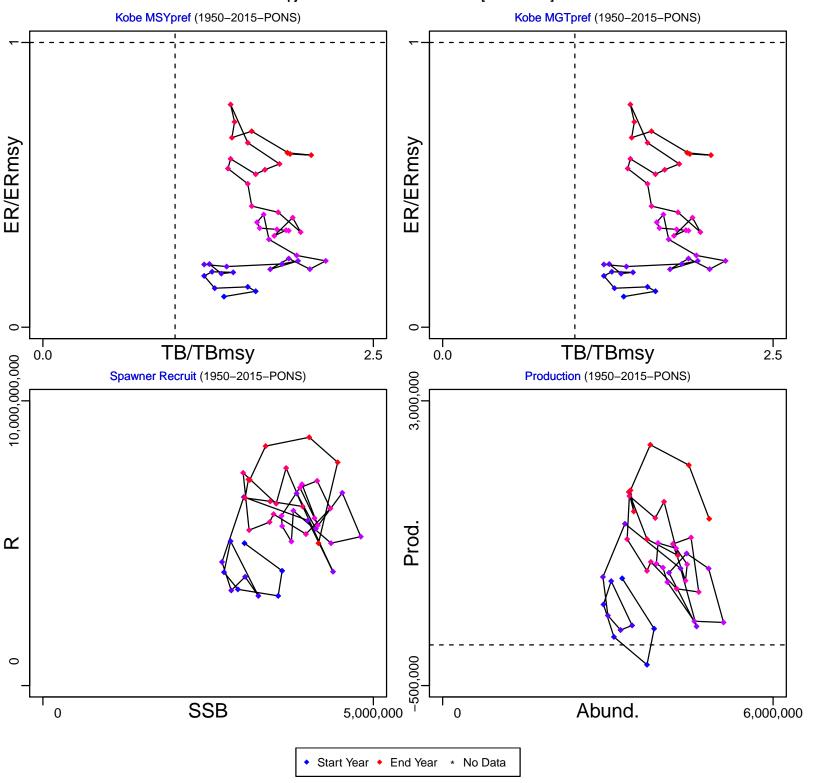


# Skipjack tuna Central Western Pacific [SKJCWPAC]

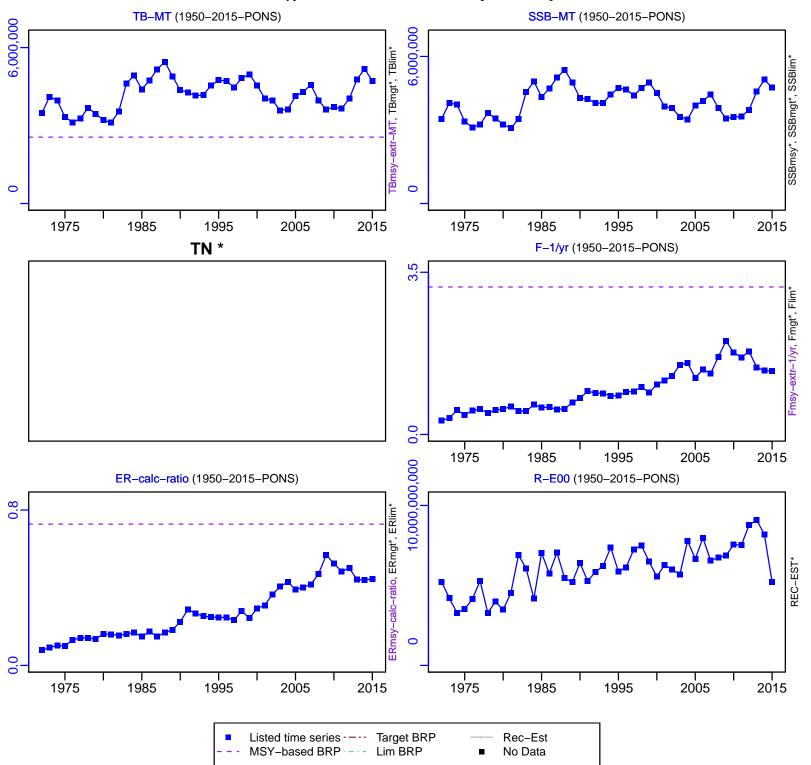
Metadata		
Scientific Name	Katsuwonus pelamis	
Current Assess ID	SPC-SKJCWPAC-1950-2015-PONS	
Area	Central Western Pacific Ocean	
Management Authority	Western and Central Pacific Fisheries Commission	
Assessor	Secretariat of the Pacific Community	
Asmts in RAM	2012, 2015	

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-extr-MT	2015	2,388,801		
SSBmsy	SSBmsy-MT	2012	1,753,000		
Fmsy	Fmsy-extr-1/yr	2015	3.09		
ERmsy	ERmsy-calc-ratio	2015	0.68		
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		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

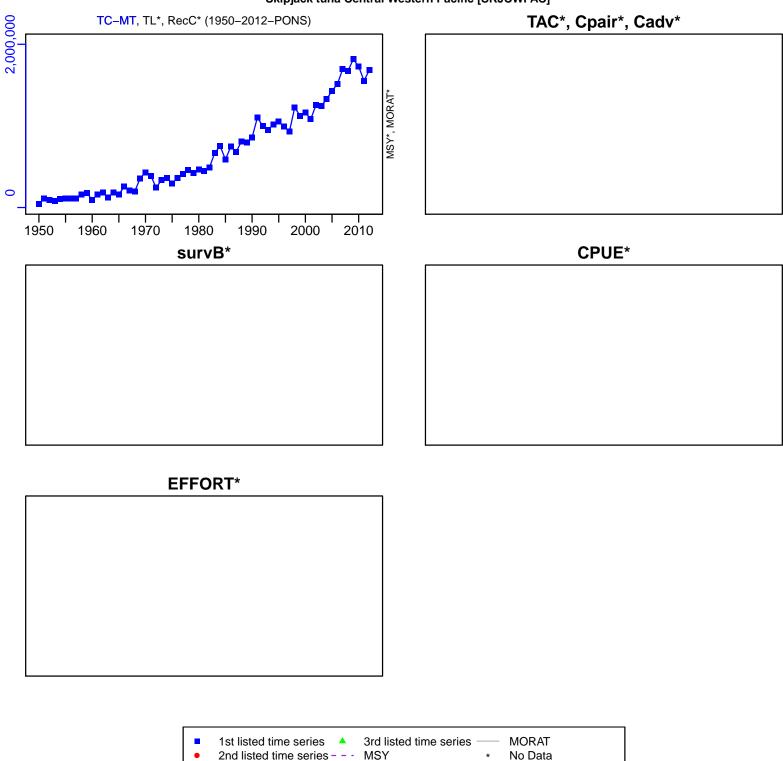
Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2015	4,410,000	-	-		
SSB	SSB-MT	2015	4,170,000	-	-		
TN	-	-	-	-	-		
R	R-E00	2015	$5 \times 10^9$	-	-		
F	F-1/yr	2015	1	-	-		
ER	ER-calc-ratio	2015	0	-	-		
TC	TC-MT	2012	1,650,000				
TL	TL-MT	2015	1,830,000	·			
TB/TBmsy	TBdivTBmsy-dimensionless	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	0.61				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				



#### Skipjack tuna Central Western Pacific [SKJCWPAC]



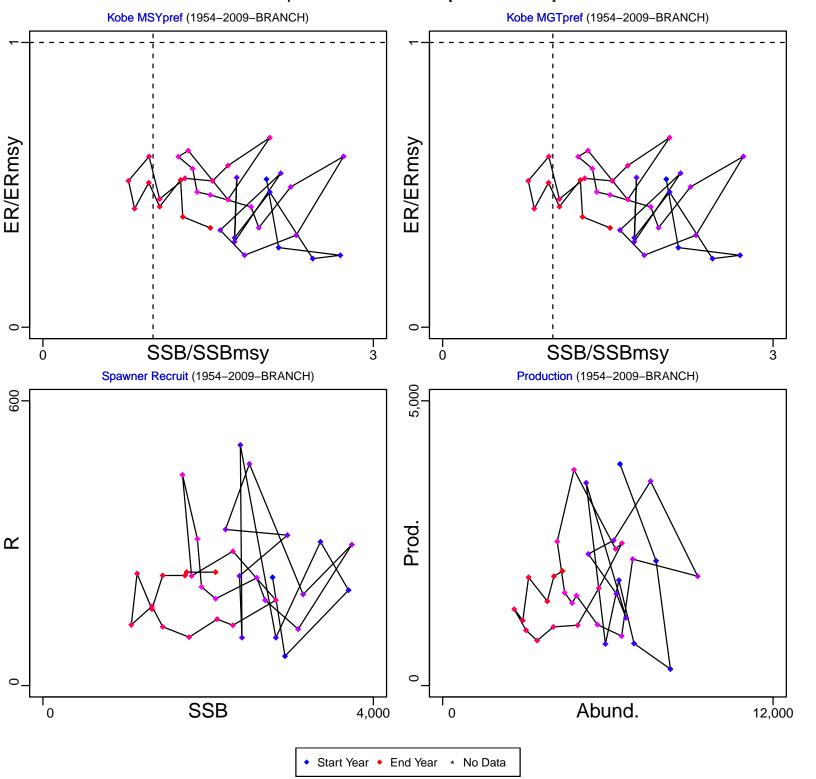
## Skipjack tuna Central Western Pacific [SKJCWPAC]

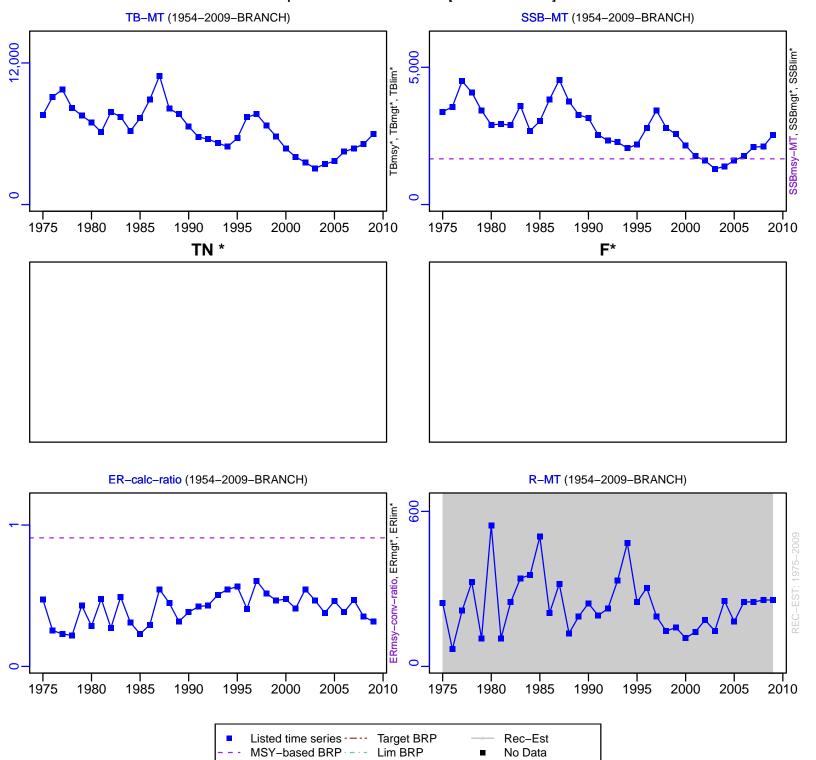


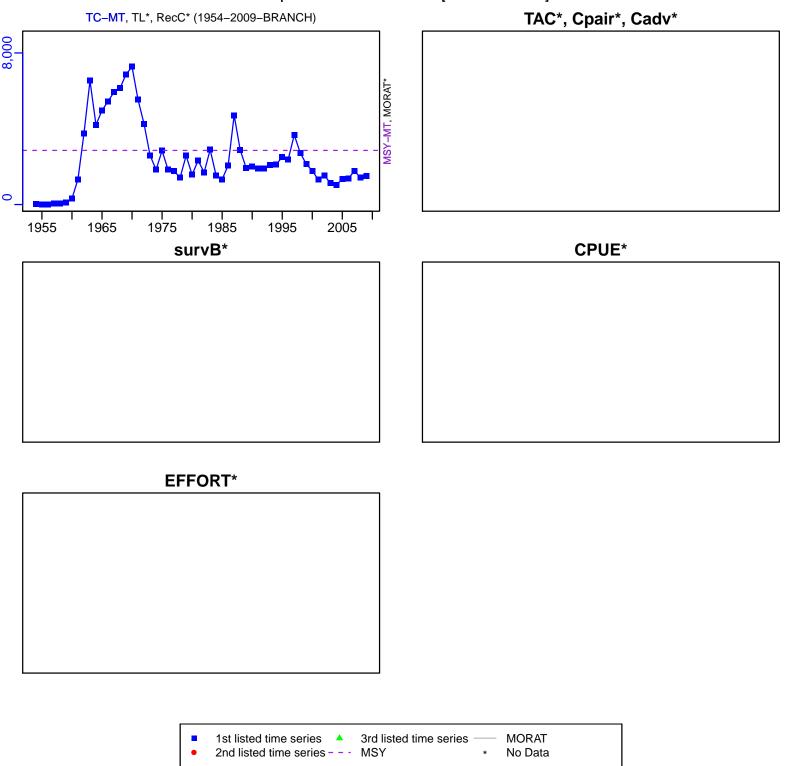
Metadata			
Scientific Name	Kajikia audax		
Current Assess ID	IATTC-STMARLINNEPAC-1954-2009-BRANCH		
Area Northeast Pacific			
Management Authority	Inter-American Tropical Tuna Commission		
Assessor	Inter-American Tropical Tuna Commission		
Asmts in RAM	2009		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2009	1370	
Fmsy	-	-	-	
ERmsy	ERmsy-conv-ratio	2009	0.77	
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	-	-
TC	TC-MT	2009	1360		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2009	1.52		
F/Fmsy	FdivFmsy-dimensionless	2009	0.08		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2009	0.35		
TB/TBmgt	1	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



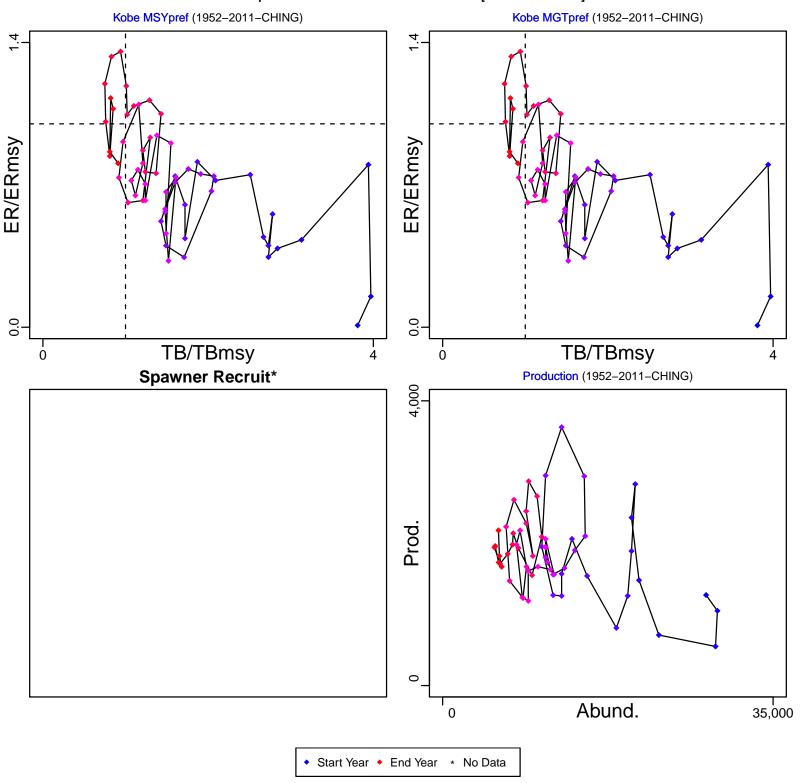


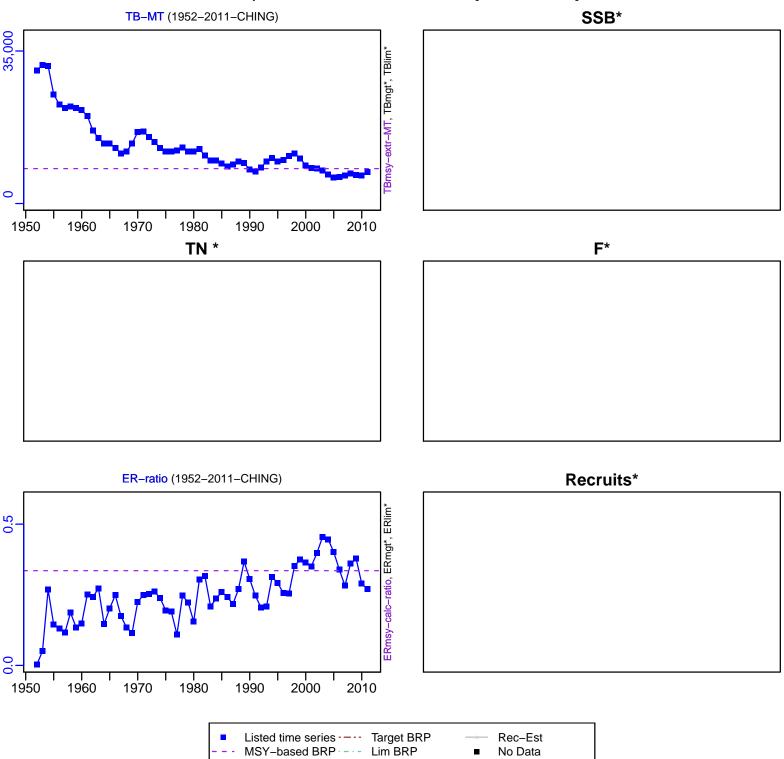


Metadata			
Scientific Name	Kajikia audax		
Current Assess ID	SPC-STMARLINSWPO-1952-2011-CHING		
Area Western Pacific Ocean			
Management Authority	Western and Central Pacific Fisheries Commission		
Assessor	Secretariat of the Pacific Community		
Asmts in RAM	2011		

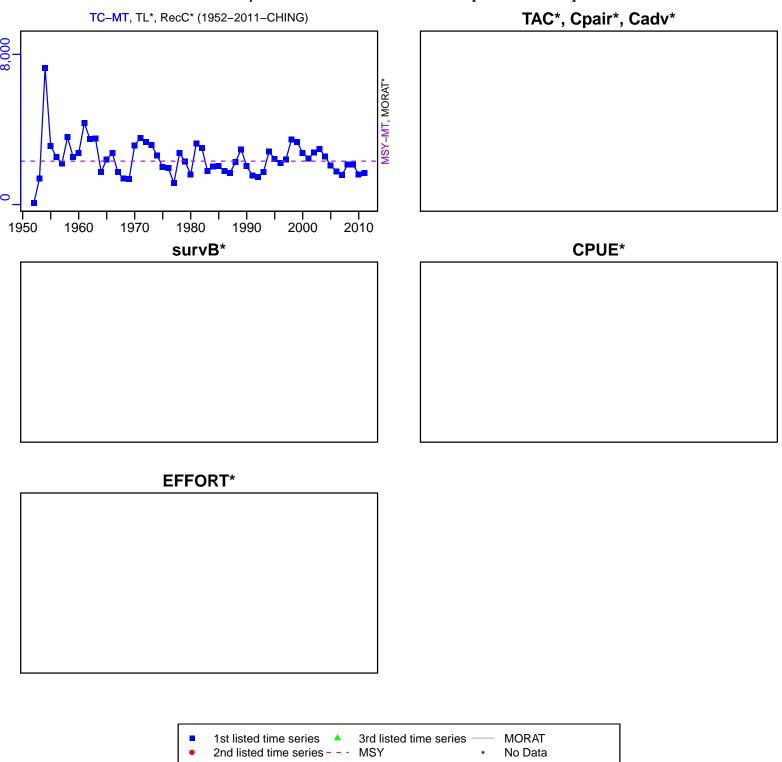
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-extr-MT	2011	7326
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2011	0.23
ERmsy	ERmsy-calc-ratio	2011	0.28
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2011	2081
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	6640	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2011	0	-	-
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	0.81		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





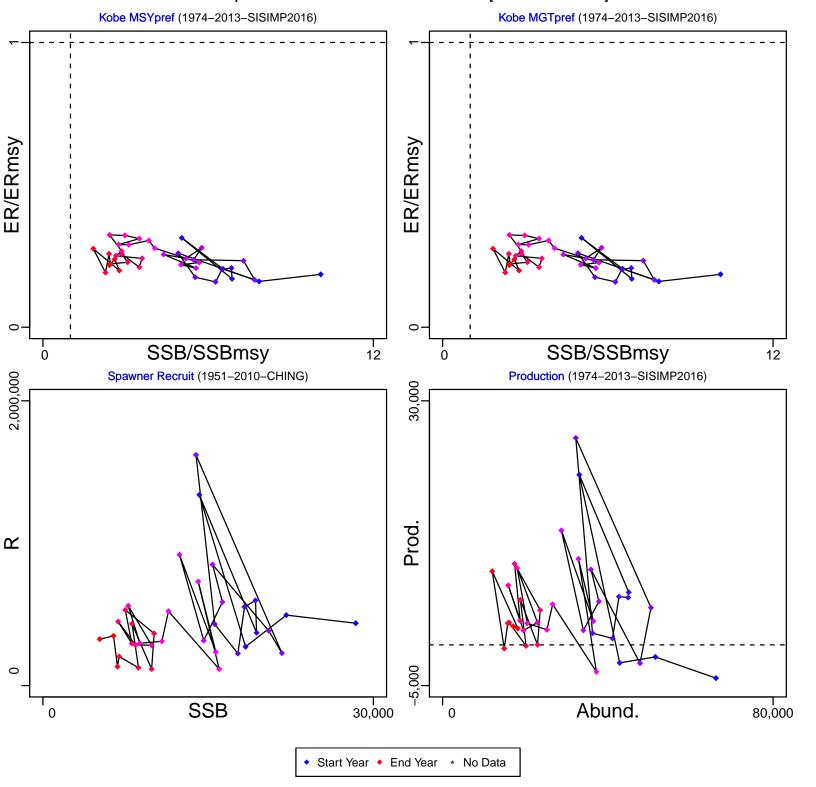
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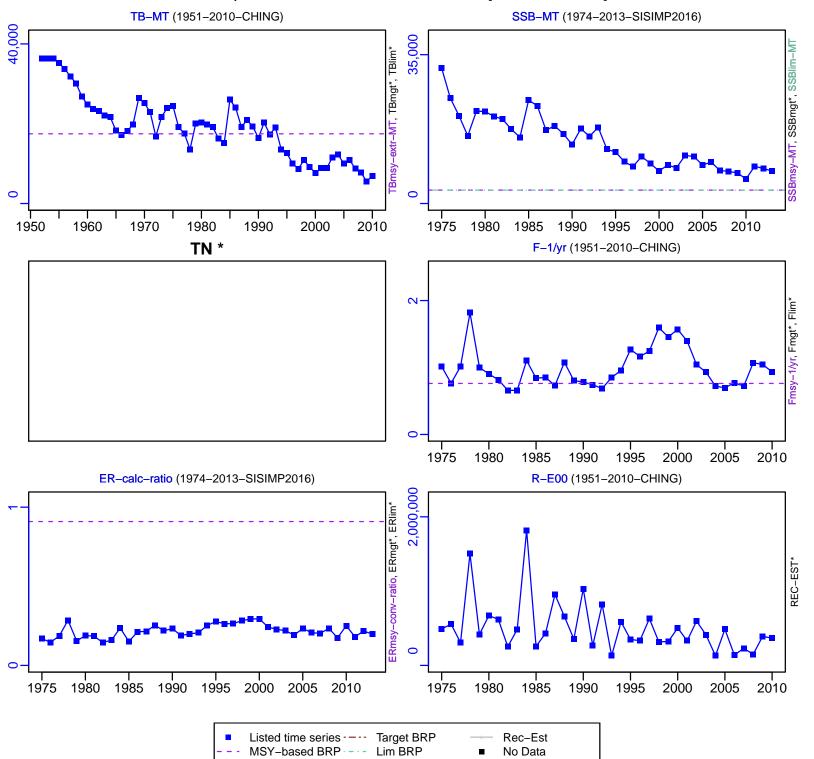


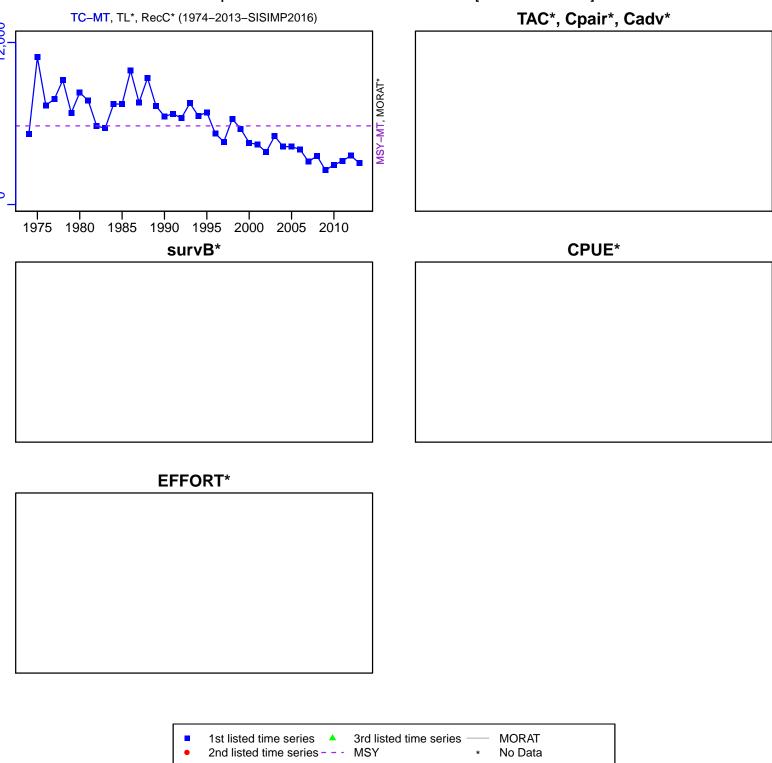
Metadata		
Scientific Name	Kajikia audax	
Current Assess ID ISC-STMARLINWCNPAC-1974-2013-SISIMP2016		
Area Western and Central North Pacific		
Management Authority International Scientific Committee for Tuna and Tuna-like Specini the North Pacific Ocean		
Assessor	International Scientific Committee for Tuna and Tuna-like Species 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	0.61	
ERmsy	ERmsy-ratio	2010	0.39	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2010	43,468	
SSB0	SSB0-MT	2010	18,507	
MSY	MSY-MT	2013	5657	
М	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2013	2819	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	6630	-	-
SSB	SSB-MT	2013	6820	Females	1+
TN	-	-	-	-	-
R	R-E00	2010	326,000	-	-
F	F-1/yr	2010	1	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	2980		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2010	0.35		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	2.42		
F/Fmsy	FdivFmsy-dimensionless	2010	1.22		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	1.24		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



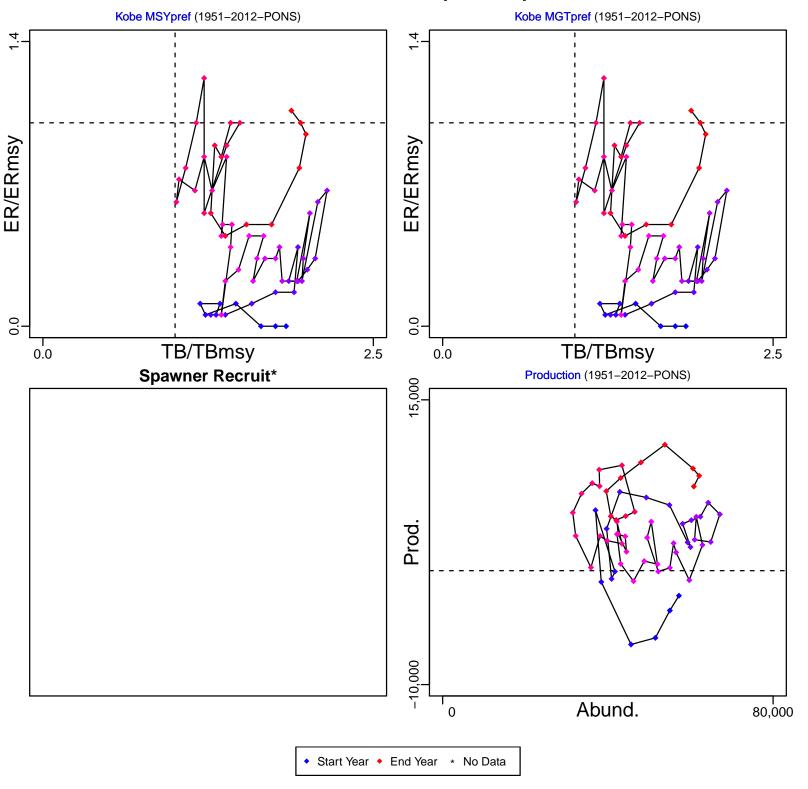


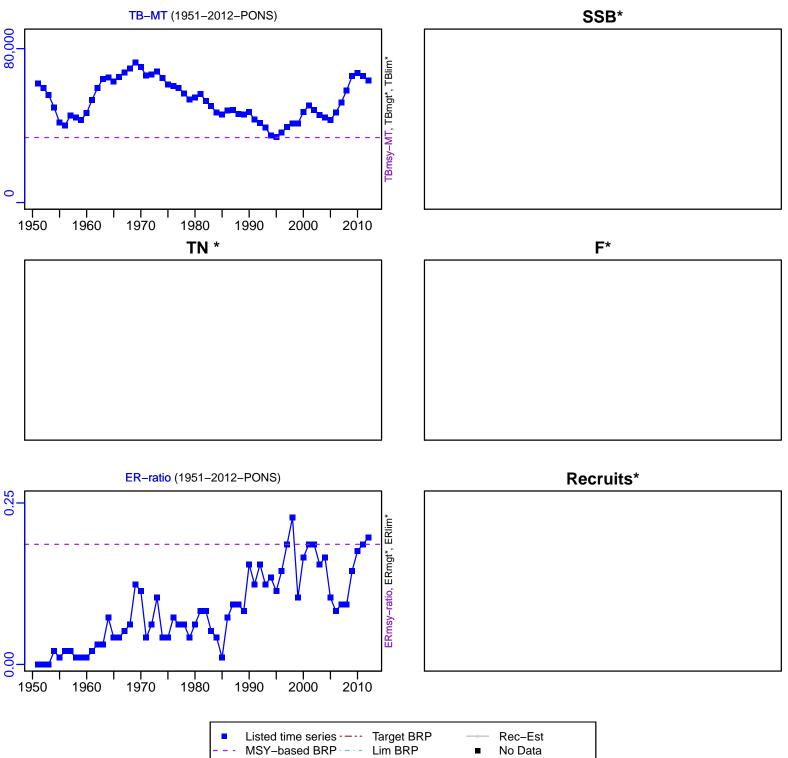


Metadata		
Scientific Name	Xiphias gladius	
Current Assess ID	IATTC-SWORDEPAC-1951-2012-PONS	
Area Eastern Pacific		
Management Authority	Inter-American Tropical Tuna Commission	
Assessor	Inter-American Tropical Tuna Commission	
Asmts in RAM	2012	

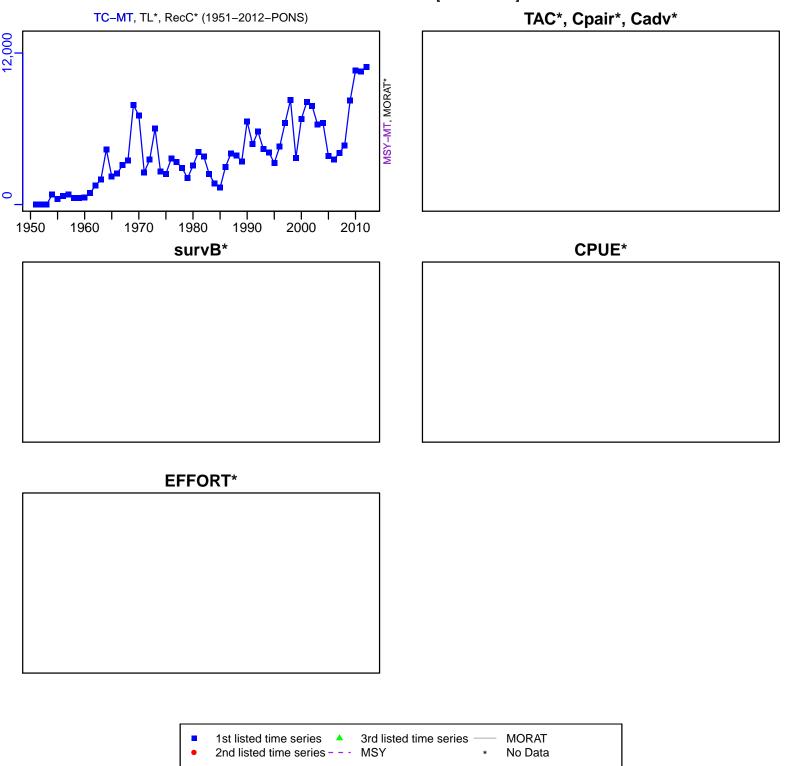
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2012	31,170	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2012	0.18	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2012	57,210	
SSB0	-	-	-	
MSY	MSY-MT	2012	54,900	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	-	-
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	-	-	-		





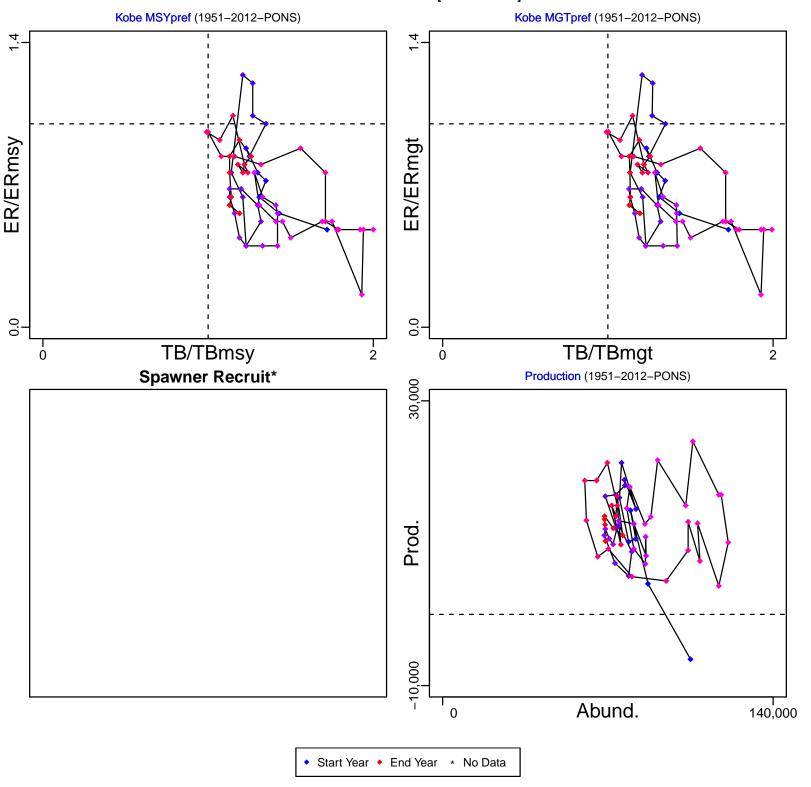
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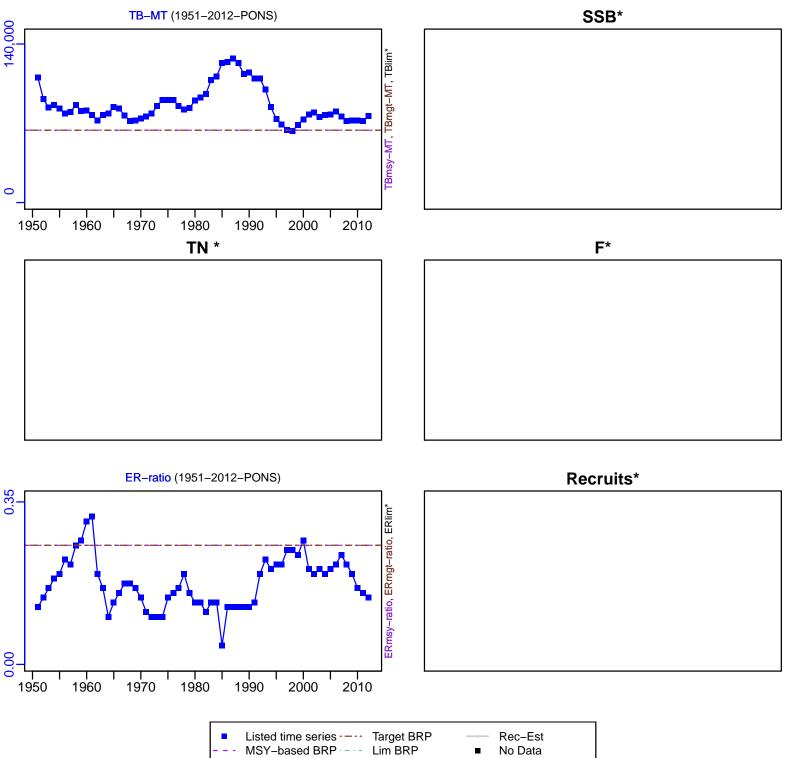


Metadata		
Scientific Name	Xiphias gladius	
Current Assess ID ISC-SWORDNPAC-1951-2012-PONS		
Area	North Pacific Ocean	
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean	
Assessor	International Scientific Committee for Tuna and Tuna-like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

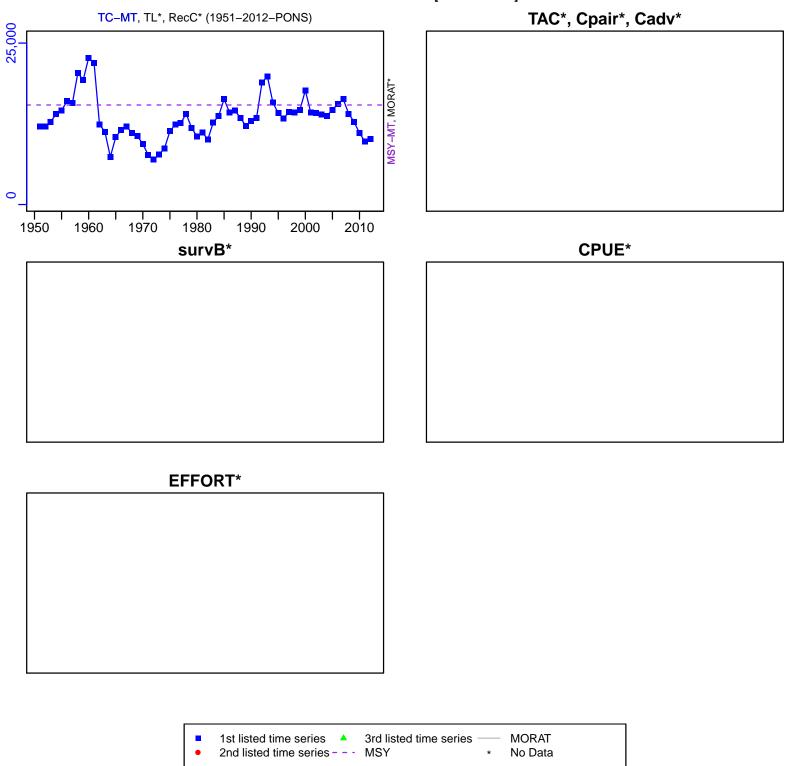
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2012	60,720		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2012	0.25		
TBmgt	TBmgt-MT	2012	60,720		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	ERmgt-ratio	2012	0.25		
TB0	TB0-MT	2012	104,600		
SSB0	-	-	-		
MSY	MSY-MT	2012	14,920		
М	-	-	-		
TBlim	-	-	-		
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	-	-
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	1.19		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





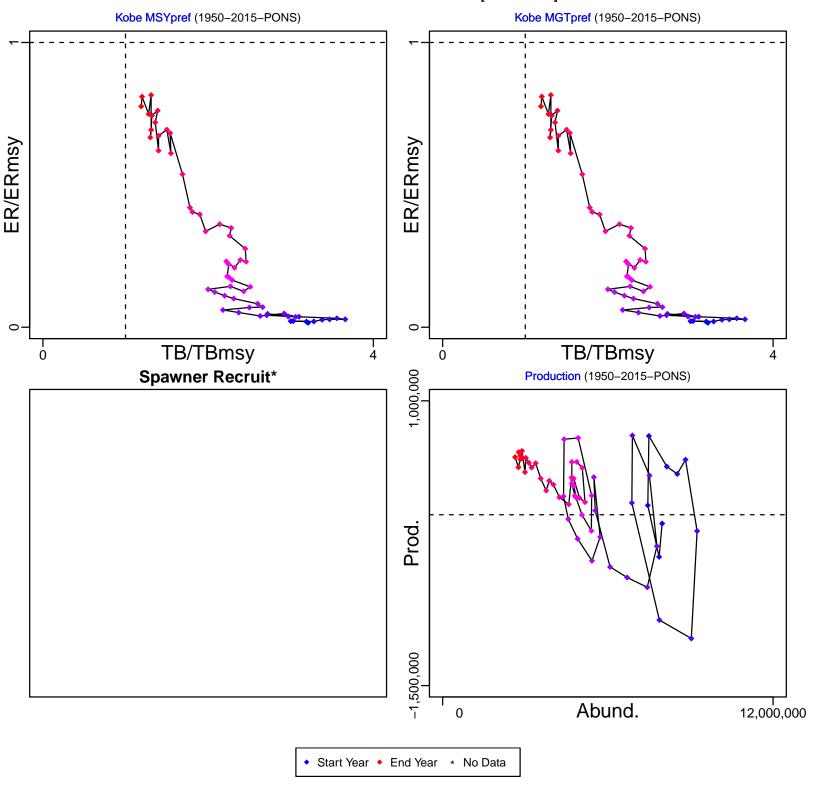
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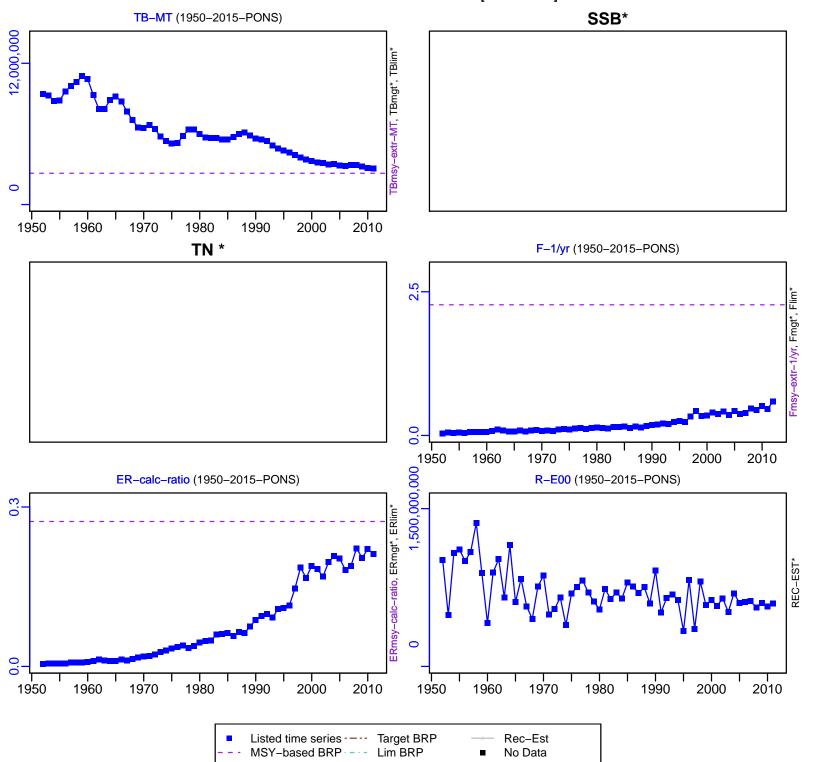


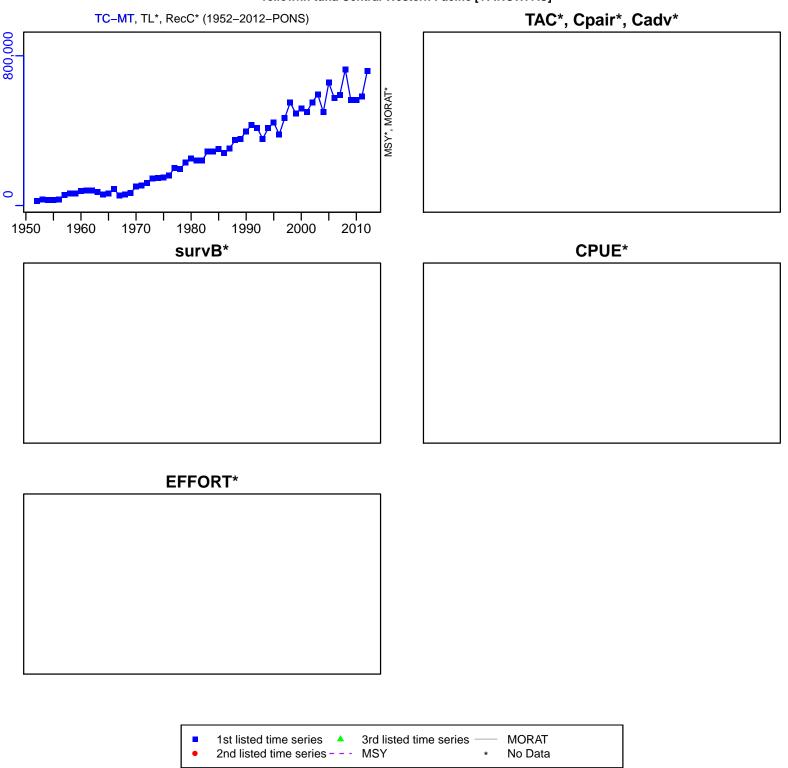
Metadata		
Scientific Name	Thunnus albacares	
Current Assess ID	SPC-YFINCWPAC-1950-2015-PONS	
Area	Central Western Pacific Ocean	
Management Authority	Western and Central Pacific Fisheries Commission	
Assessor	Secretariat of the Pacific Community	
Asmts in RAM	2015, 2012	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-extr-MT	2015	2,249,402	
SSBmsy	SSBmsy-MT	2012	728,300	
Fmsy	Fmsy-extr-1/yr	2015	1.96	
ERmsy	ERmsy-calc-ratio	2015	0.26	
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	2015	586,400	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	2,580,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	$5.65 \times 10^{8}$	-	-
F	F-1/yr	2015	1	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2012	646,000		
TL	TL-MT	2015	576,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2015	1.19		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	1.29		
F/Fmsy	FdivFmsy-dimensionless	2015	0.72		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	0.78		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	7.99		
ER/ERmgt	-	-	-		







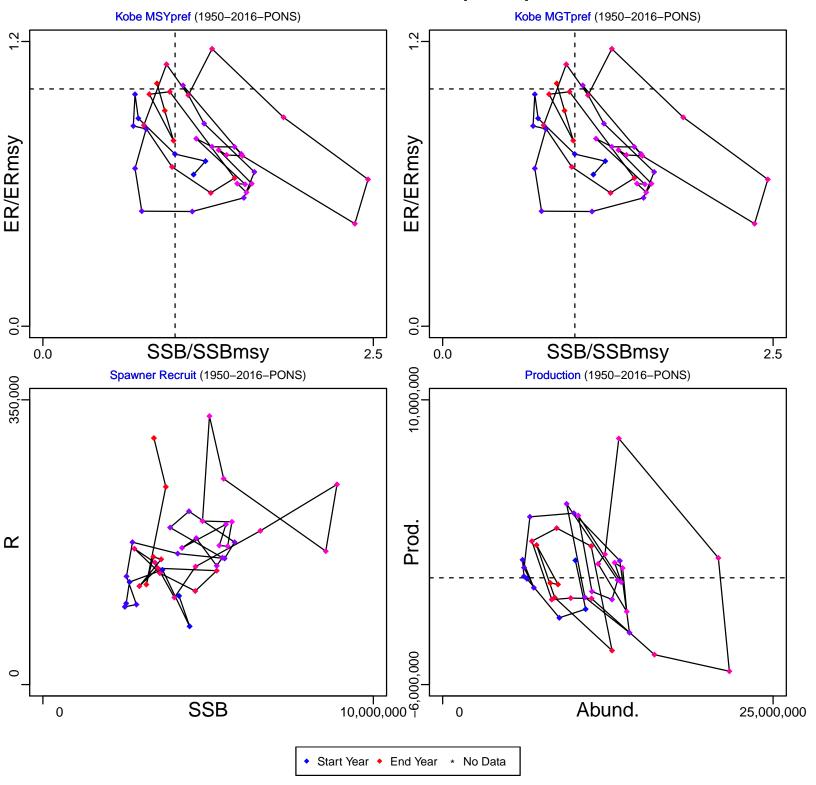
## Yellowfin tuna Eastern Pacific [YFINEPAC]

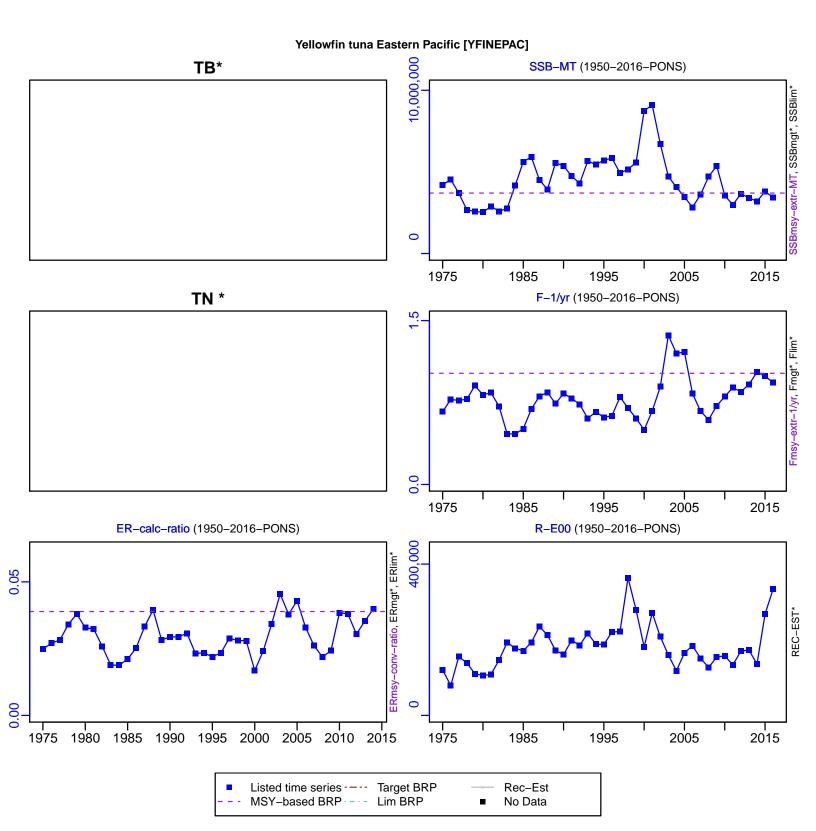
Metadata		
Scientific Name	Thunnus albacares	
Current Assess ID	IATTC-YFINEPAC-1950-2016-PONS	
Area Northeast Pacific		
Management Authority	Inter-American Tropical Tuna Commission	
Assessor	Inter-American Tropical Tuna Commission	
Asmts in RAM	2012, 2016	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2012	362,582	
SSBmsy	SSBmsy-extr-MT	2016	3,624,300	
Fmsy	Fmsy-extr-1/yr	2016	1	
ERmsy	ERmsy-calc-ratio	2012	0.73	
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	1	-	-
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2012	191,000		
TL	TL-MT	2016	243,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2012	1.07		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2016	0.93		
F/Fmsy	FdivFmsy-dimensionless	2016	0.92		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2016	1.02		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

#### Yellowfin tuna Eastern Pacific [YFINEPAC]





## Yellowfin tuna Eastern Pacific [YFINEPAC]

