

Atlantic Ocean Stocks

v4.495 (Apr-17-2021)

Not present Present Preferred

Stock	Time Series Types			
	B/Bmsy	U/Umsy	B/Bmgt	U/Umgmt
1. ALBANATL [Albacore tuna Northern Atlantic]	TB SSB	ER F	TB SSB	ER F
2. ALBASATL [Albacore tuna South Atlantic]	TB SSB	ER F	TB SSB	ER F
3. ATBTUNAEATL [Atlantic bluefin tuna Eastern Atlantic]	TB SSB	ER F	TB SSB	ER F
4. ATBTUNAWATL [Atlantic bluefin tuna Western Atlantic]	TB SSB	ER F	TB SSB	ER F
5. BIGEYEATL [Bigeye tuna Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F
6. BMARLINATL [Blue marlin Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F
7. SAILEATL [Sailfish Eastern Atlantic]	TB SSB	ER F	TB SSB	ER F
8. SAILWATL [Sailfish Western Atlantic]	TB SSB	ER F	TB SSB	ER F
9. SKJEATL [Skipjack tuna Eastern Atlantic]	TB SSB	ER F	TB SSB	ER F
10. SKJWATL [Skipjack tuna Western Atlantic]	TB SSB	ER F	TB SSB	ER F
11. SWORDNATL [Swordfish Northern Atlantic]	TB SSB	ER F	TB SSB	ER F
12. SWORDSATL [Swordfish South Atlantic]	TB SSB	ER F	TB SSB	ER F
13. WMARLINATL [White marlin Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F
14. YFINATL [Yellowfin tuna Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F

Albacore tuna Northern Atlantic [ALBANATL]

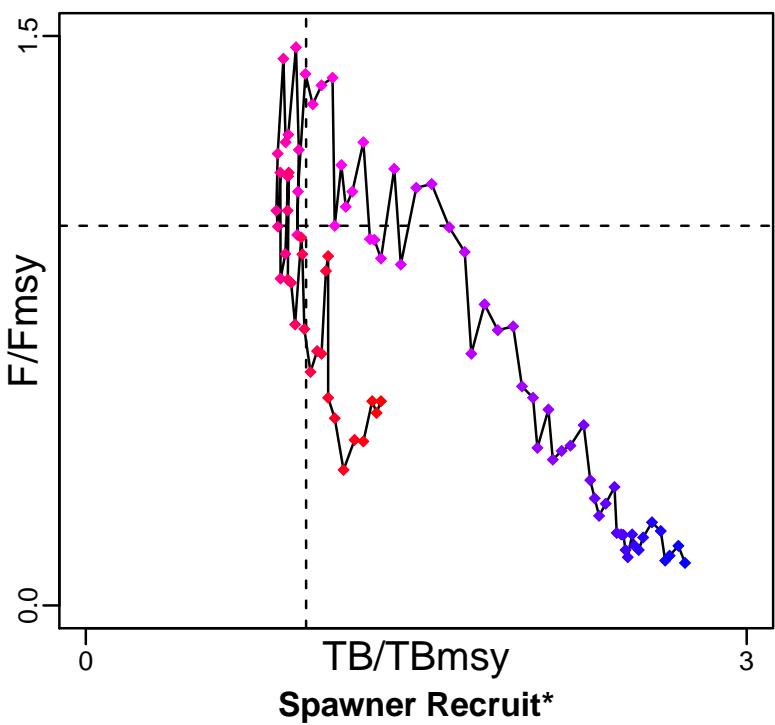
Metadata	
Scientific Name	Thunnus alalunga
Current Assess ID	ICCAT-ALBANATL-1930-2016-PONS
Area	Northern Atlantic
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2011, 2015, 2016

Reference Points			
Type	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
M	M-1/yr	2015	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

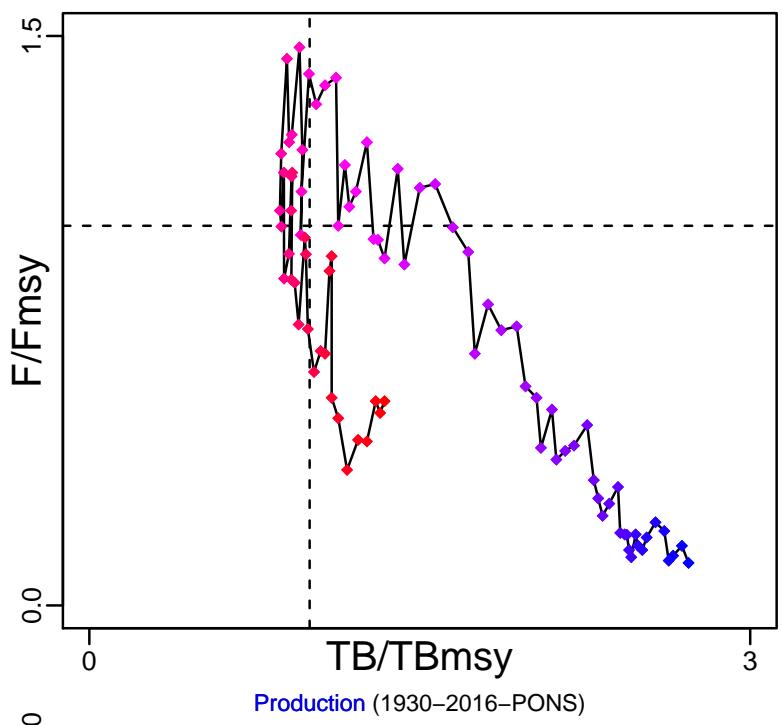
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2016	569,000	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2016	0.045	-	-	
ER	ER-calc-ratio	2016	0.045	-	-	
TC	TC-MT	2015	24,700			
TL	TL-MT	2016	30,100			
TB/TBmsy	TBdivTBmsy-dimensionless	2016	1.34			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	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]

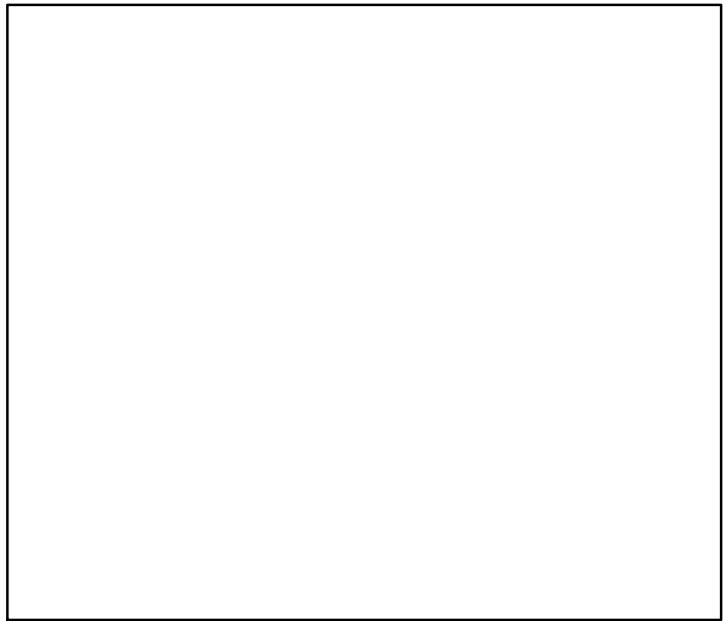
Kobe MSYpref (1930–2016–PONS)



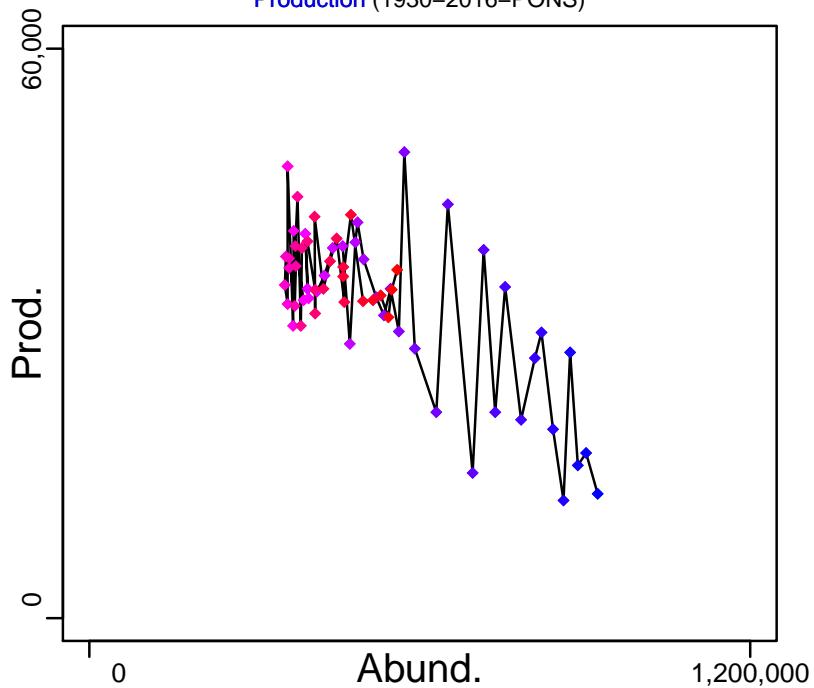
Kobe MGTPref (1930–2016–PONS)



Spawner Recruit*



Production (1930–2016–PONS)

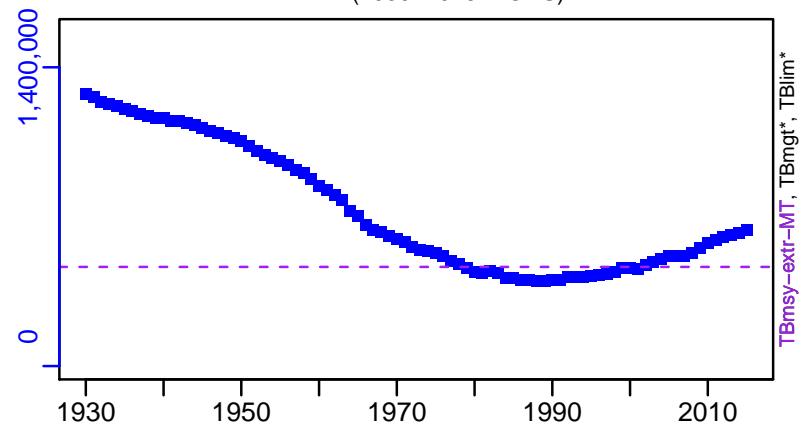


◆ Start Year ◆ End Year * No Data

Albacore tuna Northern Atlantic [ALBANATL]

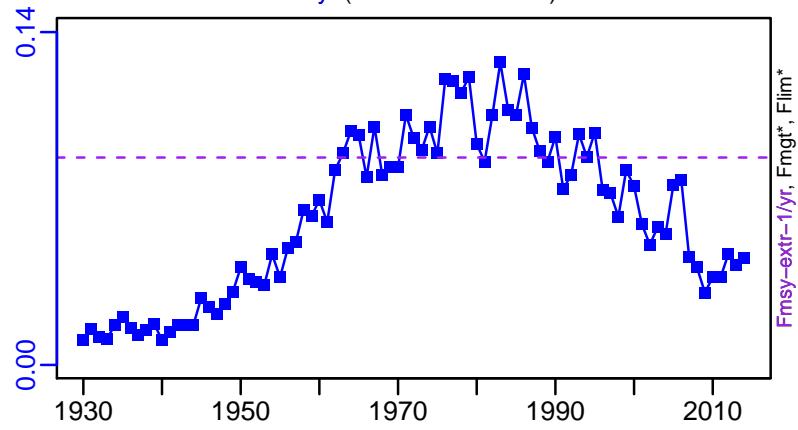
TB-MT (1930–2016-PONS)

SSB*



TN *

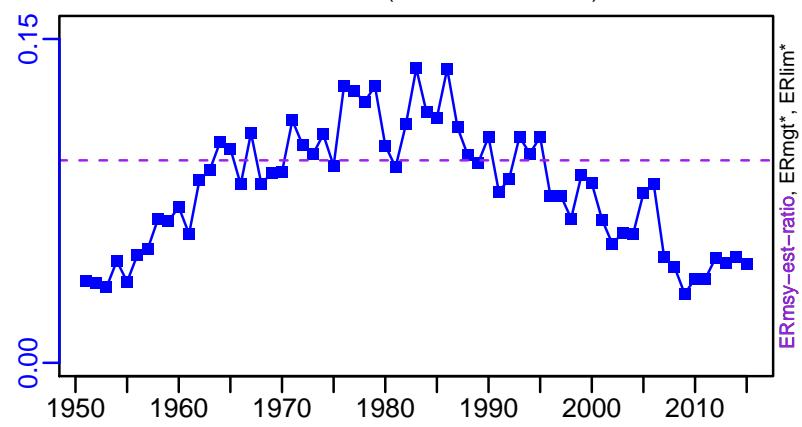
F-1/yr (1930–2016-PONS)



F_{msy-extr-1/yr, Fmg^{*}, Film^{*}}

ER-calc-ratio (1930–2016-PONS)

Recruits*

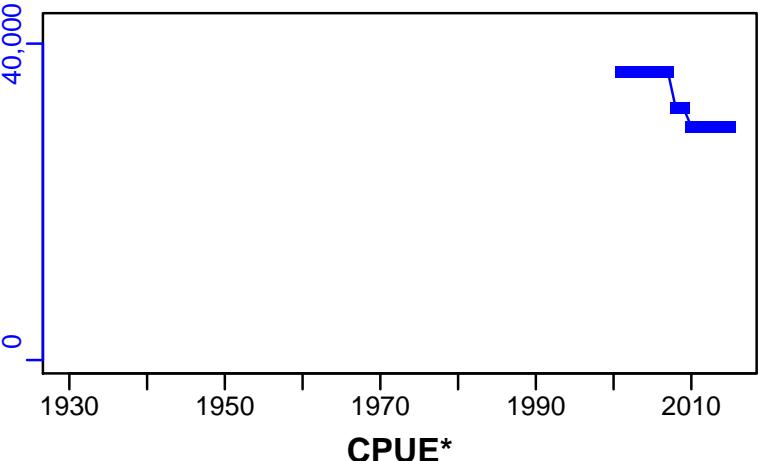
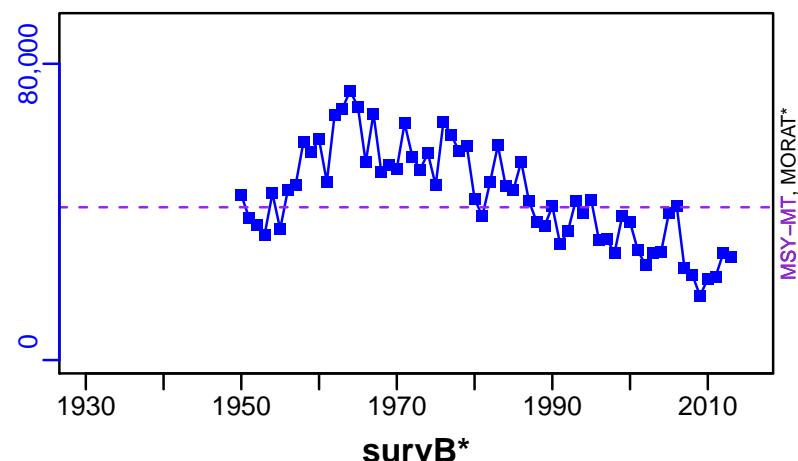


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	--- Lim BRP	* No Data

Albacore tuna Northern Atlantic [ALBANATL]

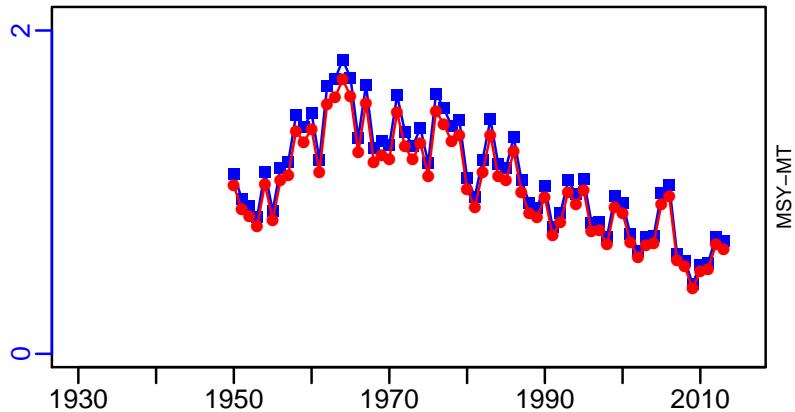
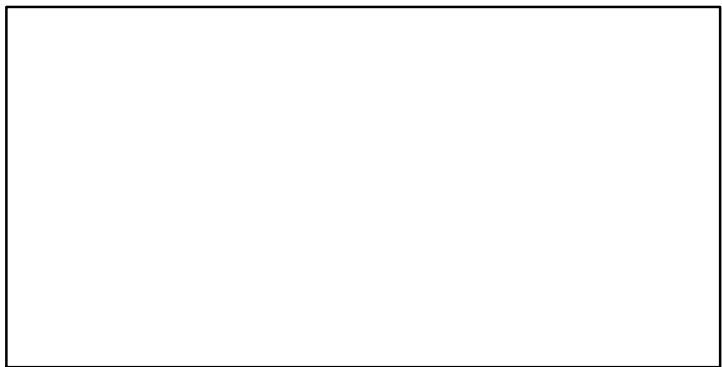
TC-MT, TL*, RecC* (1930–2015–PONS)

TAC-MT, Cpair*, Cadv* (1930–2015–PONS)



EFFORT*

TC-MT/MSY-MT, CdivMEANC-ratio, (1930–2015–PONS)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Albacore tuna South Atlantic [ALBASATL]

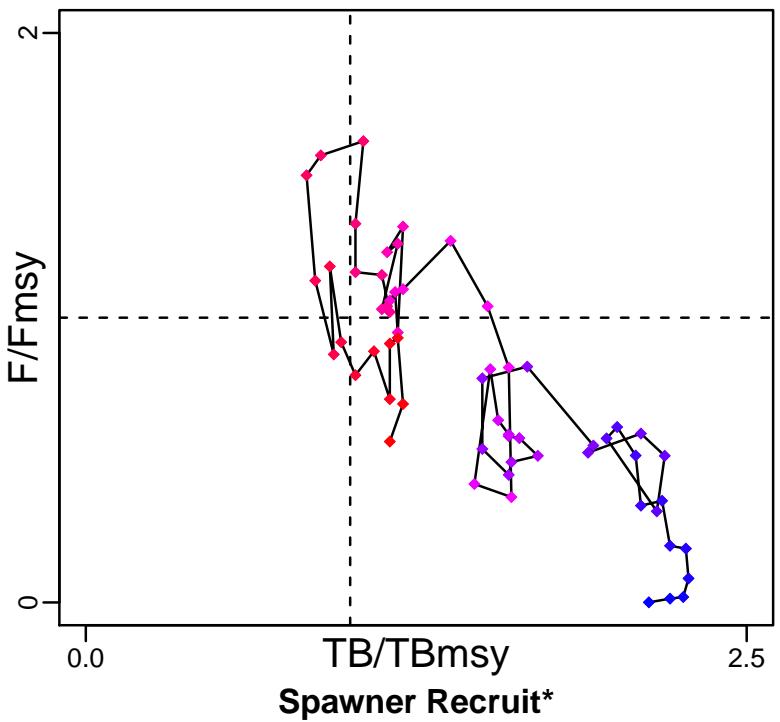
Metadata	
Scientific Name	Thunnus alalunga
Current Assess ID	ICCAT-ALBASATL-1951-2016-PONS
Area	South Atlantic
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	184,108
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.17
ERmsy	ERmsy-calc-ratio	2015	0.137
TBmgt	TBmgt-MT	2015	184,108
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2015	0.17
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	25,148
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

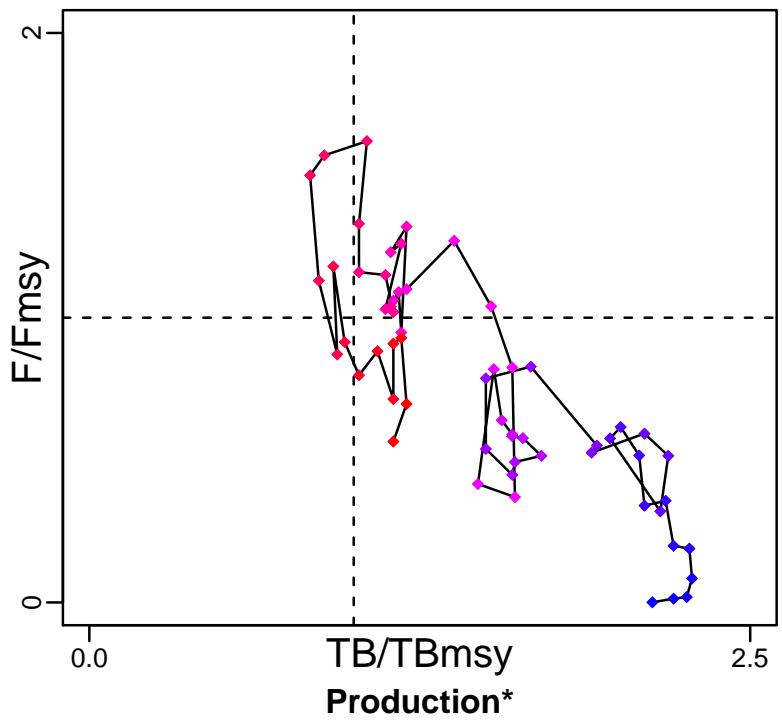
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2015	149,000	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2015	0.192	-	-	
ER	ER-calc-ratio	2015	0.168	-	-	
TC	TC-MT	2015	19,200			
TL	TL-MT	2016	13,700			
TB/TBmsy	TBdivTBmsy-dimensionless	2016	1.15			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2016	0.565			
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	1.233			
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]

Kobe MSYpref (1951–2016–PONS)



Kobe MGTPref (1951–2016–PONS)



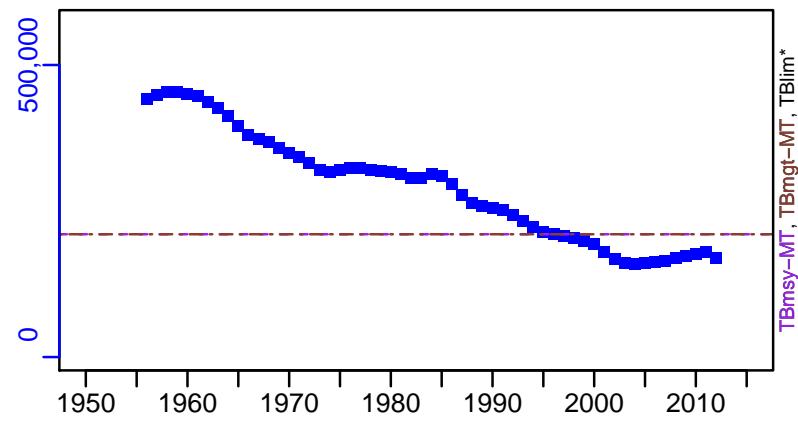
Spawner Recruit*

Production*

- ◆ Start Year
- ◆ End Year
- * No Data

Albacore tuna South Atlantic [ALBASATL]

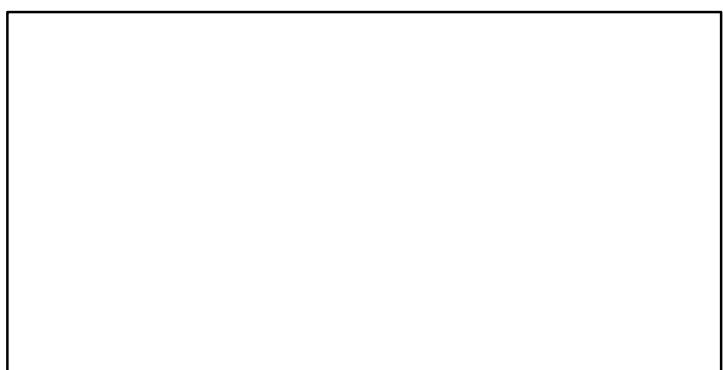
TB-MT (1950–2015–PONS)



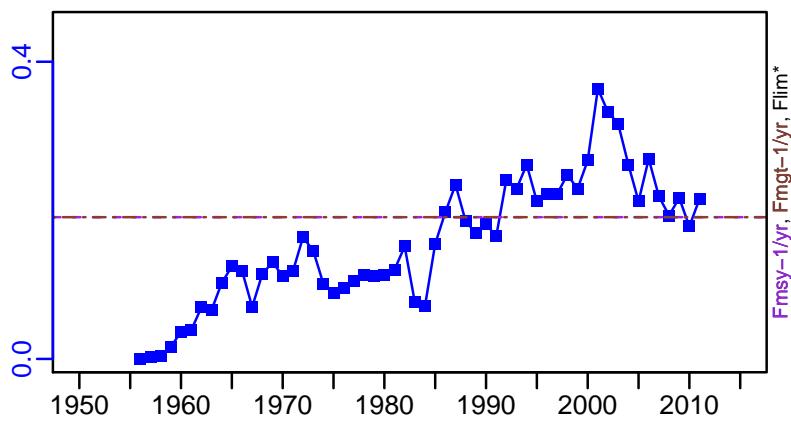
SSB*



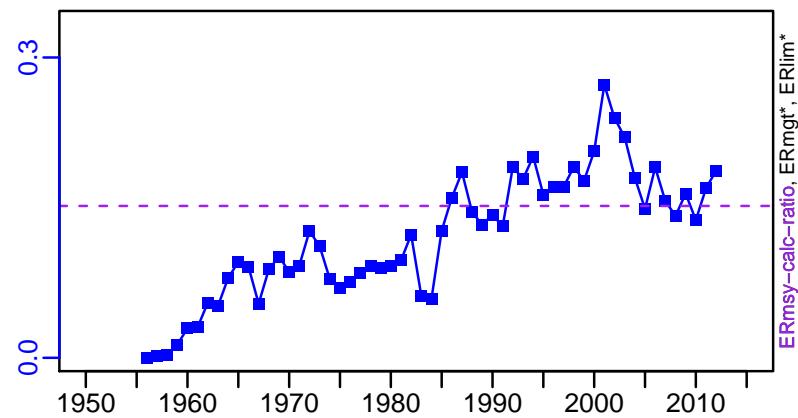
TN *



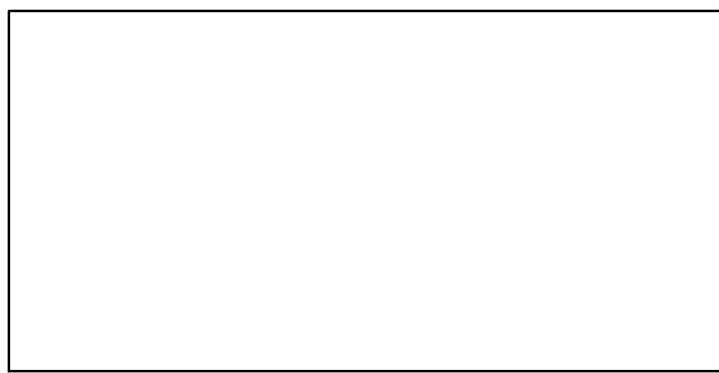
F-1/yr (1950–2015–PONS)



ER-calc-ratio (1950–2015–PONS)



Recruits*

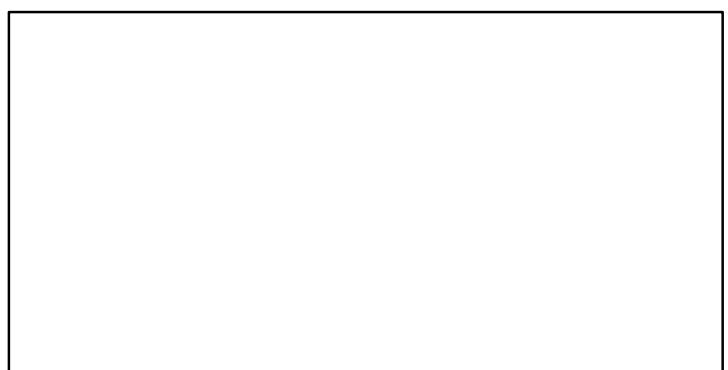
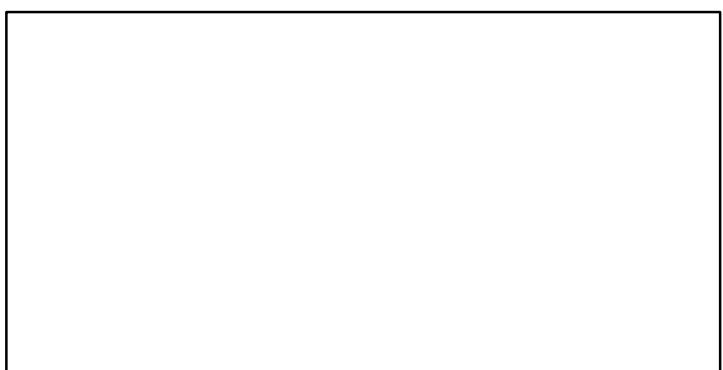
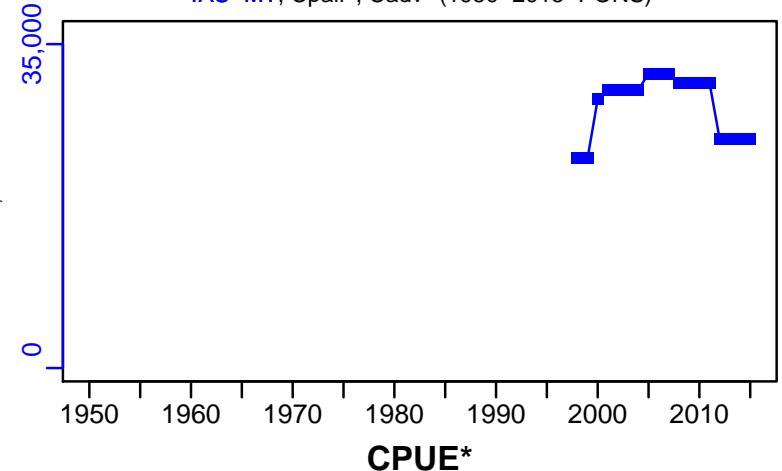
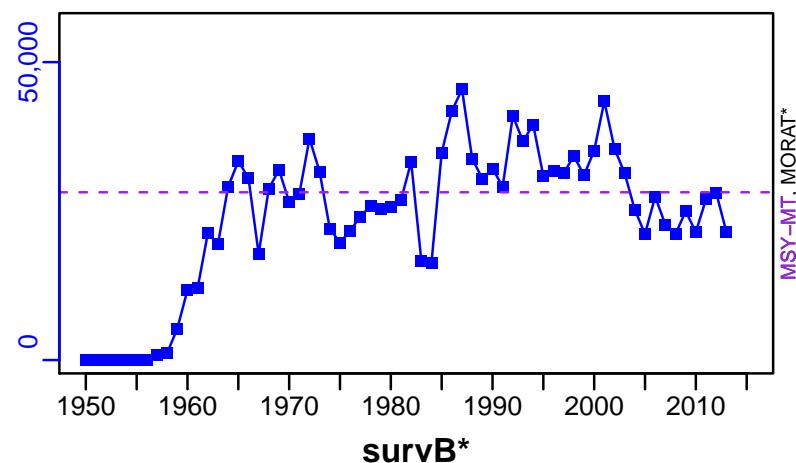


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | --- Lim BRP | * No Data |

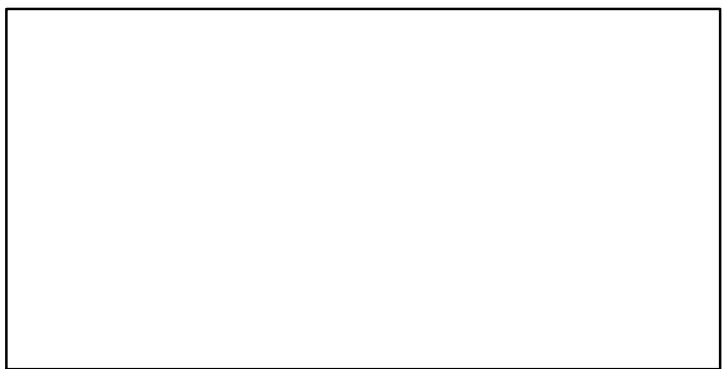
Albacore tuna South Atlantic [ALBASATL]

TC-MT, TL*, RecC* (1950–2015–PONS)

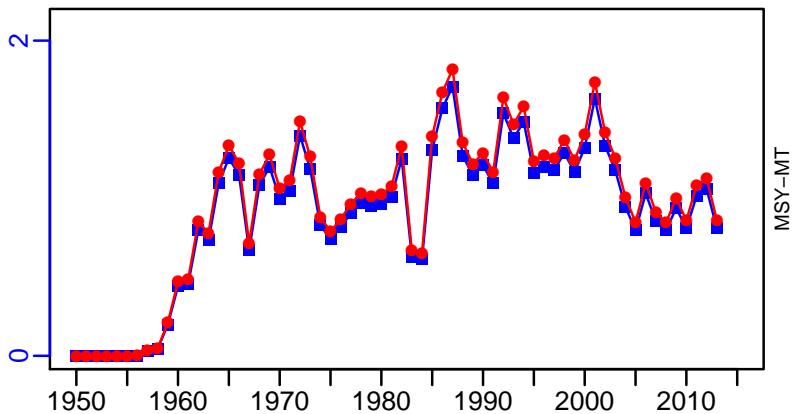
TAC-MT, Cpair*, Cadv* (1950–2015–PONS)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2015–PONS)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Atlantic bluefin tuna Eastern Atlantic [ATBTUNAEATL]

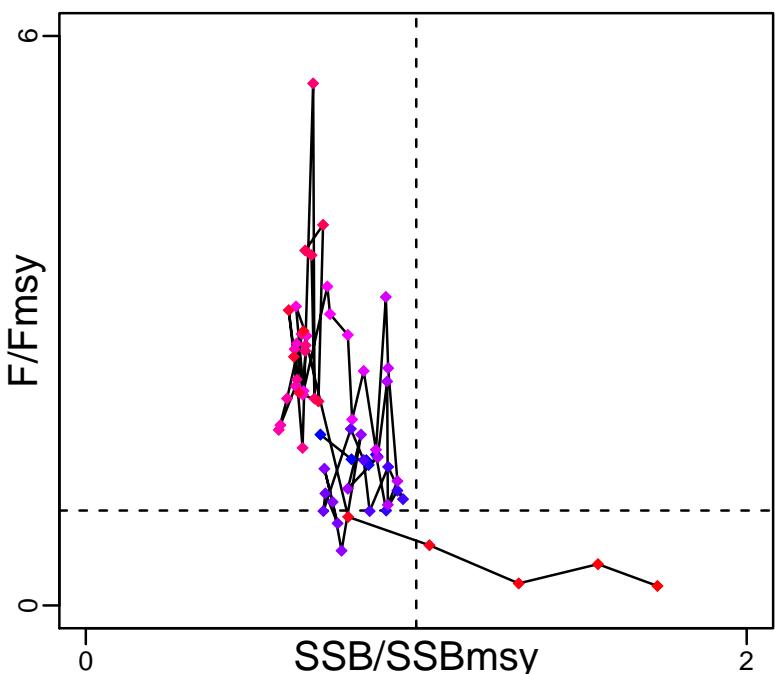
Metadata	
Scientific Name	Thunnus thynnus
Current Assess ID	ICCAT-ATBTUNAEATL-1951-2016-PONS
Area	Eastern Atlantic
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	325,322
Fmsy	Fmsy-extr-1/yr	2016	0.111
ERmsy	ERmsy-conv-ratio	2015	0.032
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	-	-	-

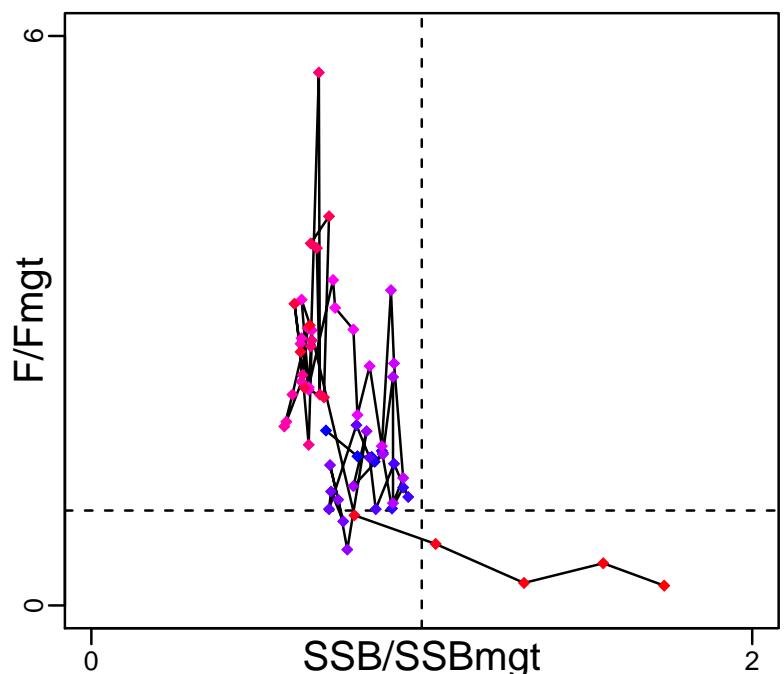
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-MT	2016	605,000	-	-	
TN	-	-	-	-	-	
R	R-E00	2016	4,330,000	-	-	
F	F-1/yr	2016	0.038	-	10+	
ER	ER-calc-ratio	2016	0.002	-	-	
TC	TC-MT	2015	13,200			
TL	TL-MT	2016	6940			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	1.73			
F/Fmsy	FdivFmsy-dimensionless	2016	0.34			
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2015	0.156			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.734			
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.209			
ER/ERmgt	-	-	-			

Atlantic bluefin tuna Eastern Atlantic [ATBTUNAEATL]

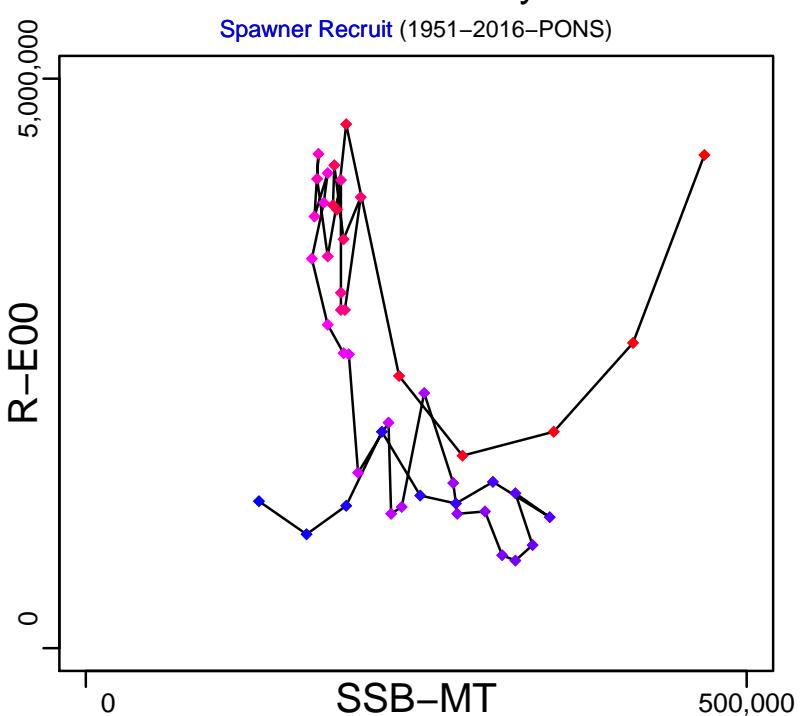
Kobe MSYpref (1950–2015–PONS)



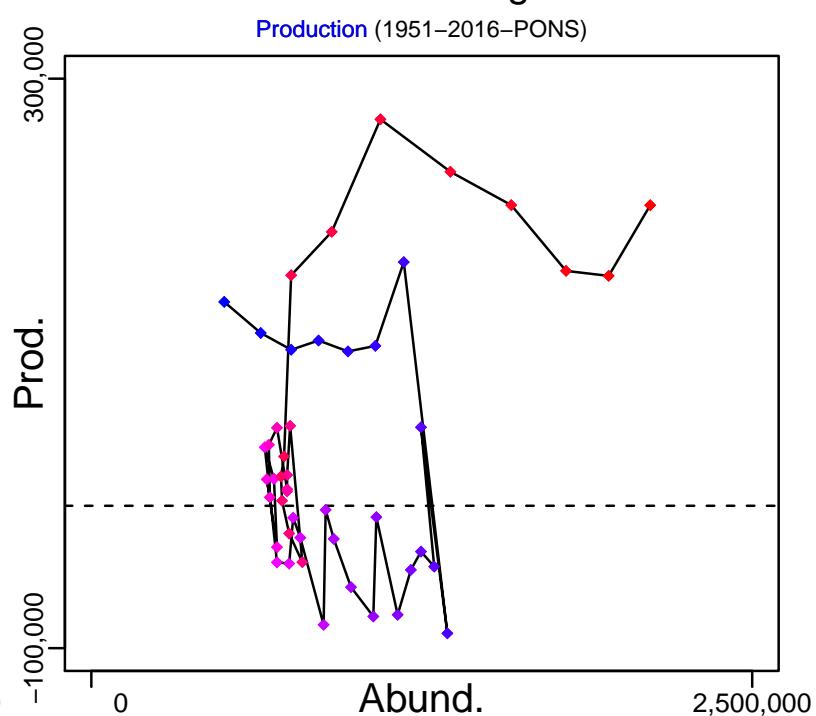
Kobe MGTPref (1950–2015–PONS)



Spawner Recruit (1951–2016–PONS)



Production (1951–2016–PONS)



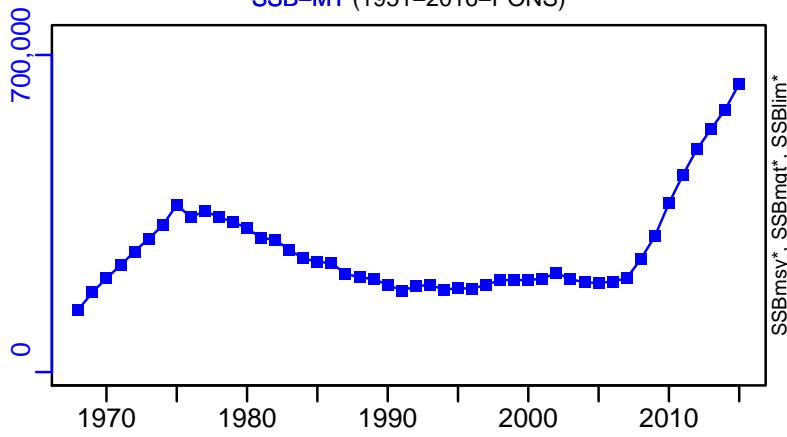
◆ Start Year ♦ End Year * No Data

Atlantic bluefin tuna Eastern Atlantic [ATBTUNAEATL]

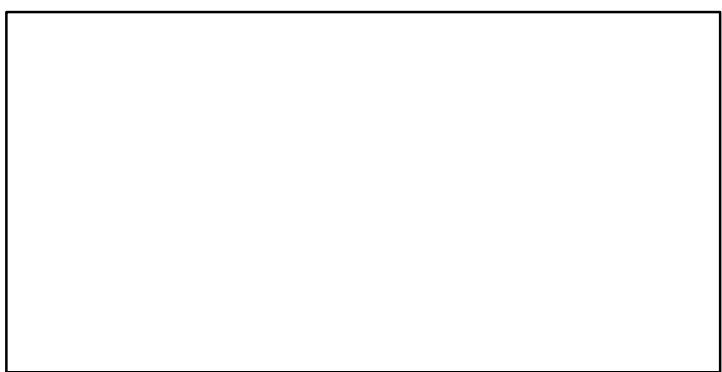
TB*



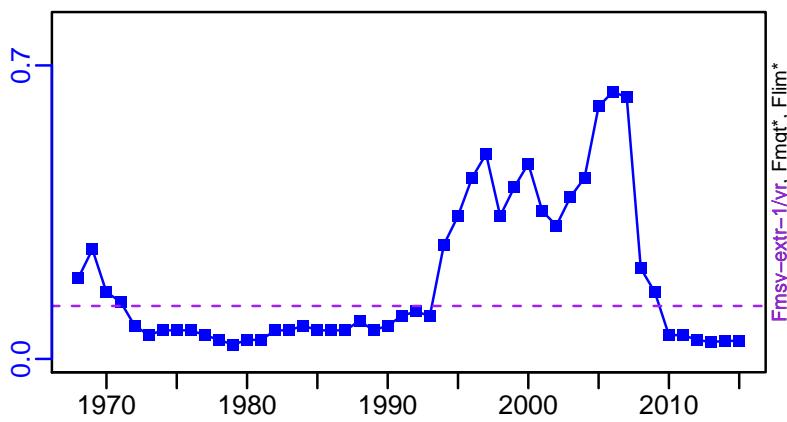
SSB-MT (1951–2016–PONS)



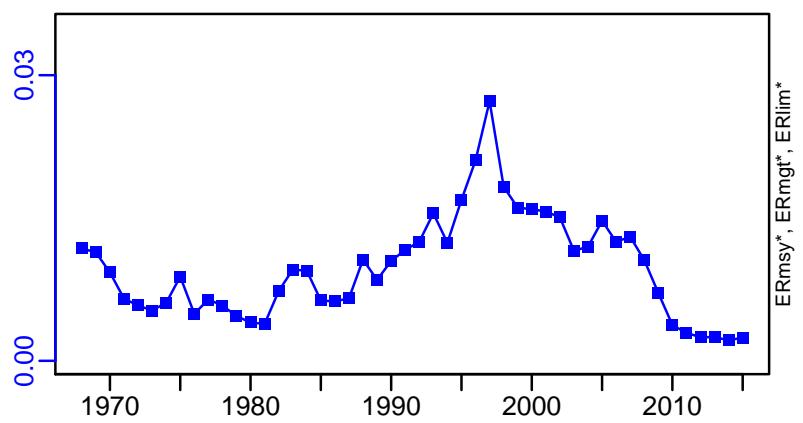
TN *



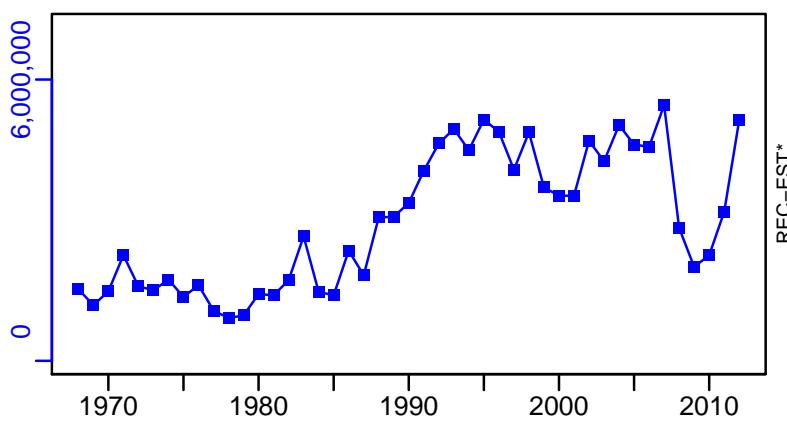
F-1/yr (1951–2016–PONS)



ER-calc-ratio (1951–2016–PONS)



R-E00 (1951–2016–PONS)

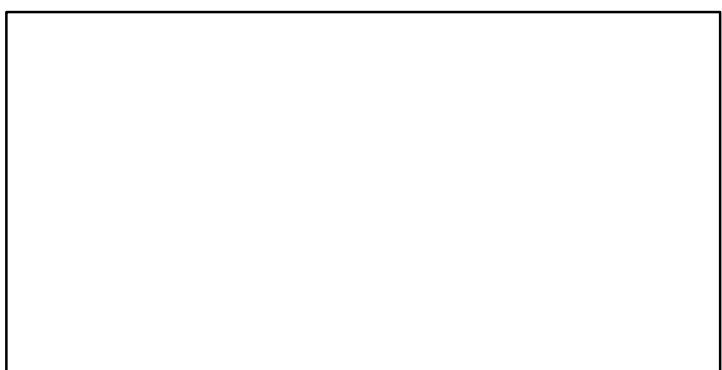
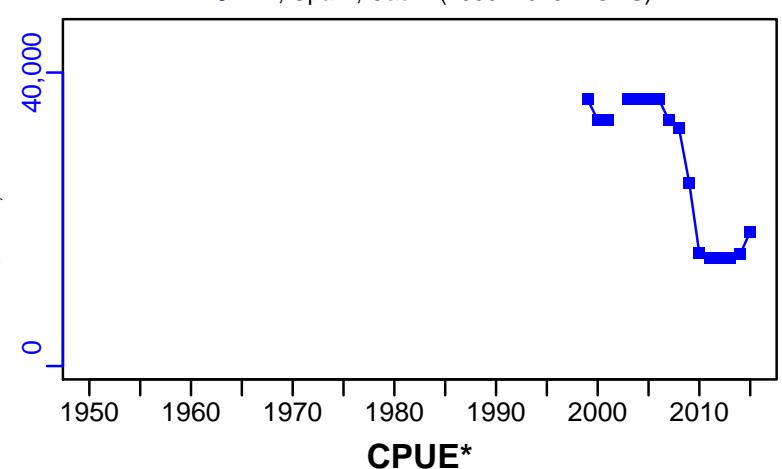
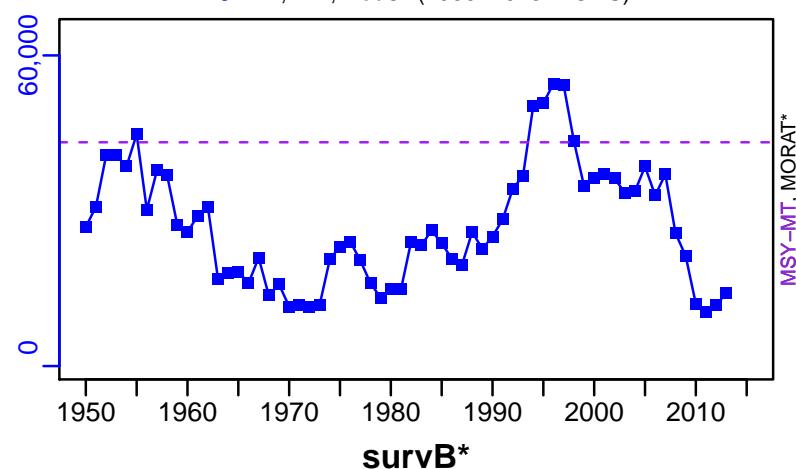


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - - MSY-based BRP | --- Lim BRP | * No Data |

Atlantic bluefin tuna Eastern Atlantic [ATBTUNAEATL]

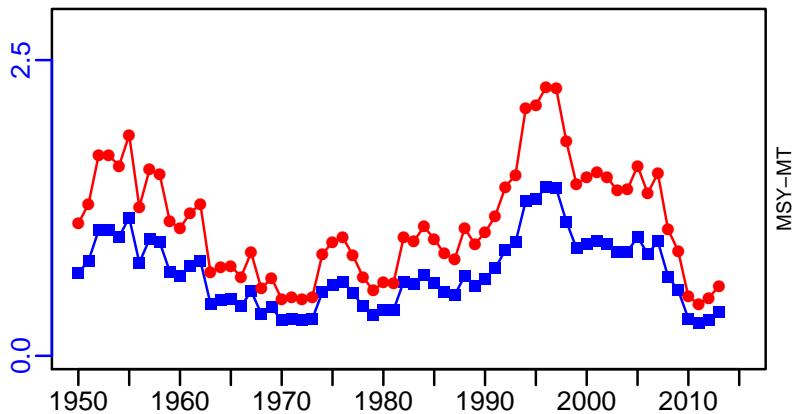
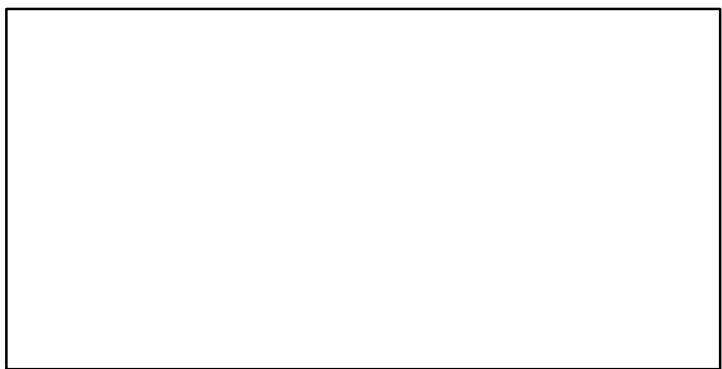
TC-MT, TL*, RecC* (1950–2015–PONS)

TAC-MT, Cpair*, Cadv* (1950–2015–PONS)



EFFORT*

TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2015–PONS)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Atlantic bluefin tuna Western Atlantic [ATBTUNAWATL]

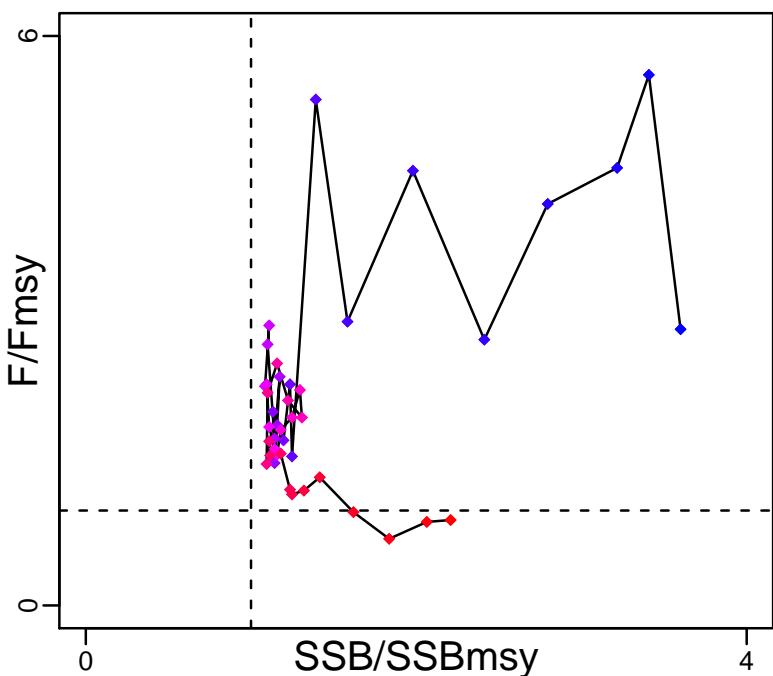
Metadata	
Scientific Name	Thunnus thynnus
Current Assess ID	ICCAT-ATBTUNAWATL-1951-2016-PONS
Area	Western Atlantic
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2015, 2016, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	62,443
Fmsy	Fmsy-extr-1/yr	2016	0.104
ERmsy	ERmsy-est-ratio	2016	0.058
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	62,443
Fmgt	Fmgt-1/yr	2015	0.08
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	5233
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

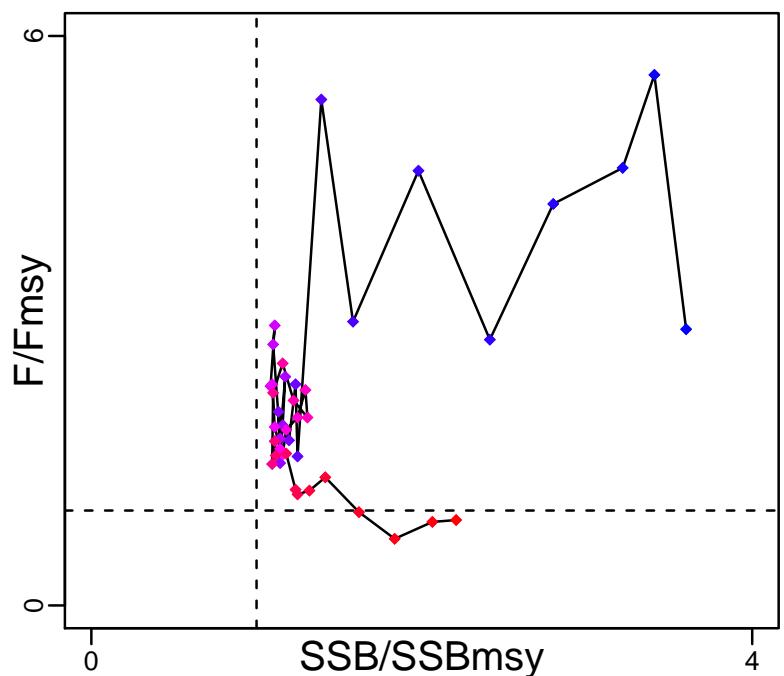
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-MT	2016	18,400	-	-	
TN	-	-	-	-	-	
R	R-E00	2013	80,300	-	1	
F	F-1/yr	2016	0.094	-	-	
ER	ER-calc-ratio	2016	0.018	-	-	
TC	TC-MT	2015	1480			
TL	TL-MT	2016	1910			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	0.479			
F/Fmsy	FdivFmsy-dimensionless	2016	0.9			
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.306			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.479			
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.888			
ER/ERmgt	-	-	-			

Atlantic bluefin tuna Western Atlantic [ATBTUNAWATL]

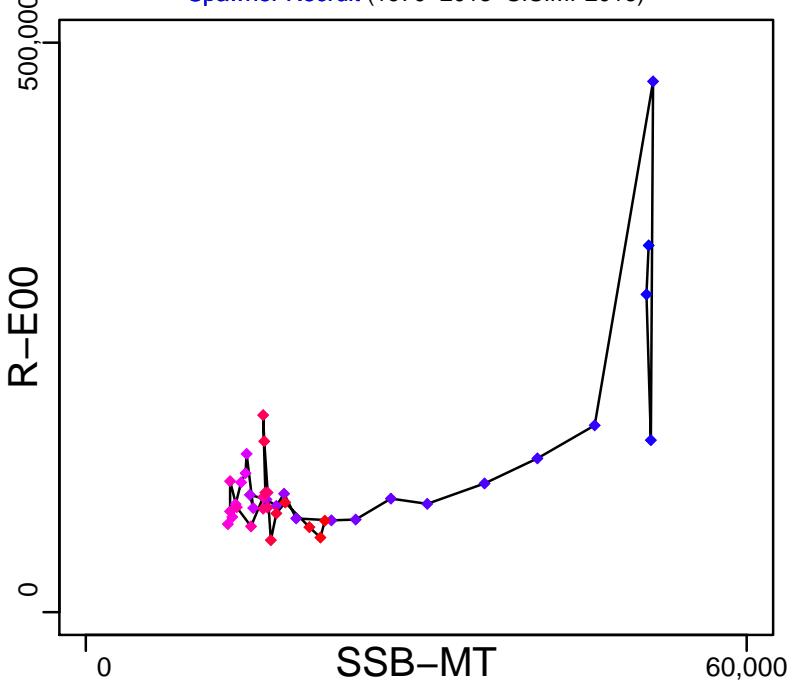
Kobe MSYpref (1951–2016–PONS)



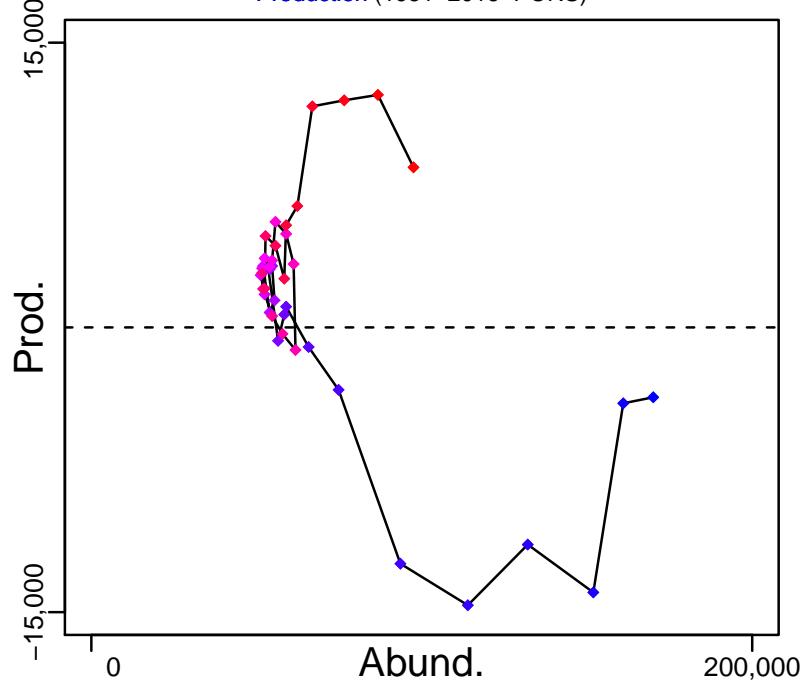
Kobe MGTPref (1951–2016–PONS)



Spawner Recruit (1970–2013–SISIMP2016)



Production (1951–2016–PONS)



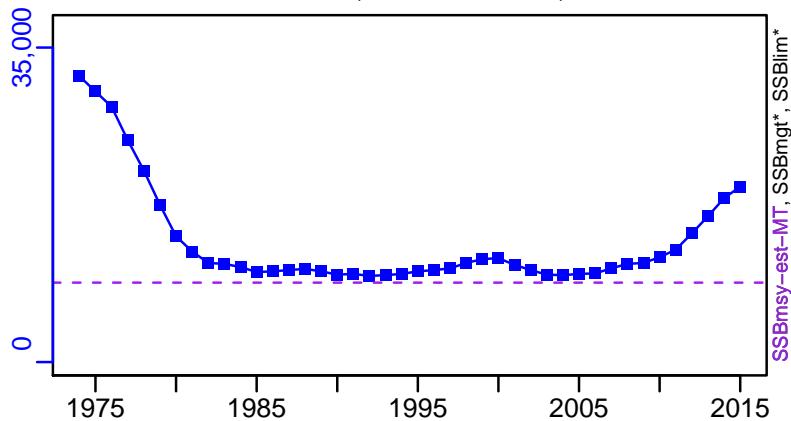
◆ Start Year ◆ End Year * No Data

Atlantic bluefin tuna Western Atlantic [ATBTUNAWATL]

TB*



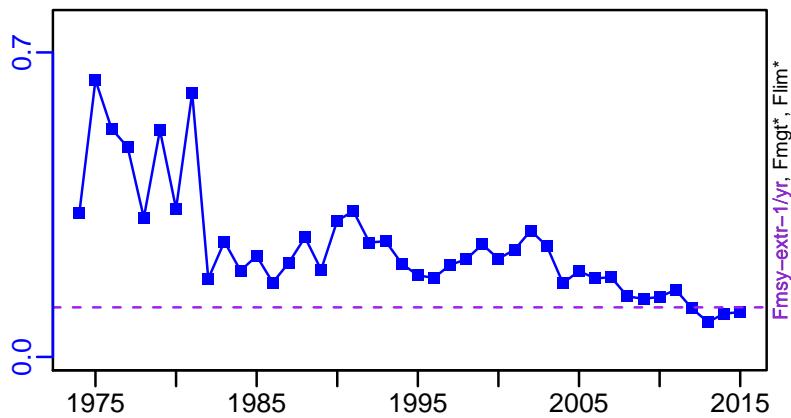
SSB-MT (1951–2016–PONS)



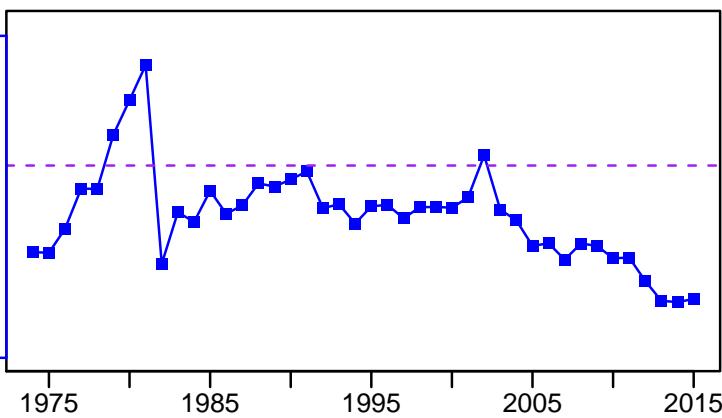
TN *



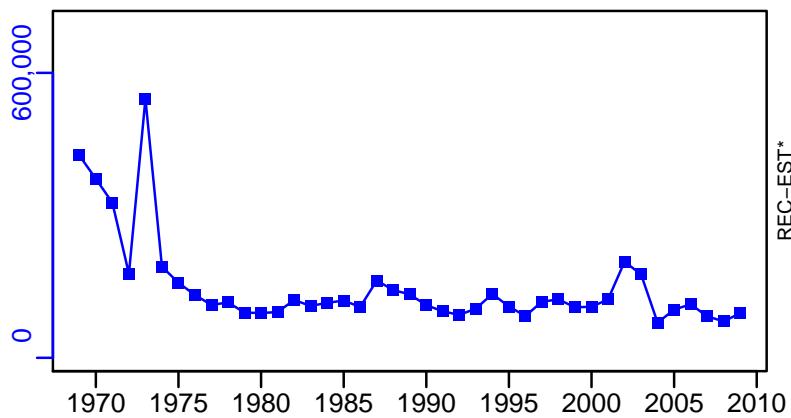
F-1/yr (1951–2016–PONS)



ER-calc-ratio (1951–2016–PONS)



R-E00 (1970–2013–SISIMP2016)

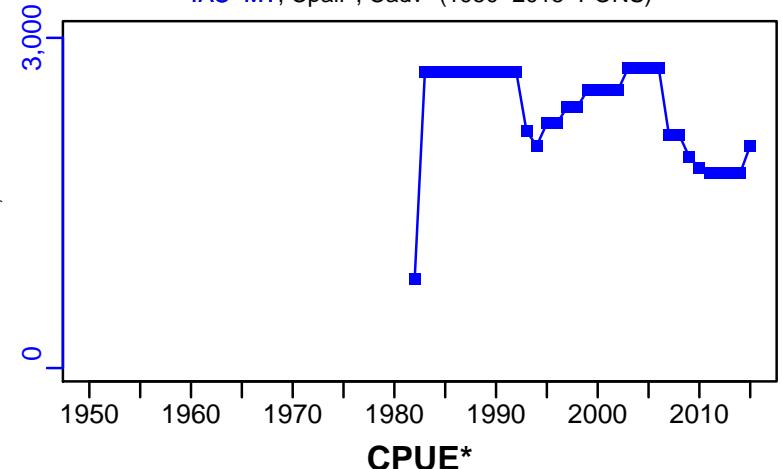
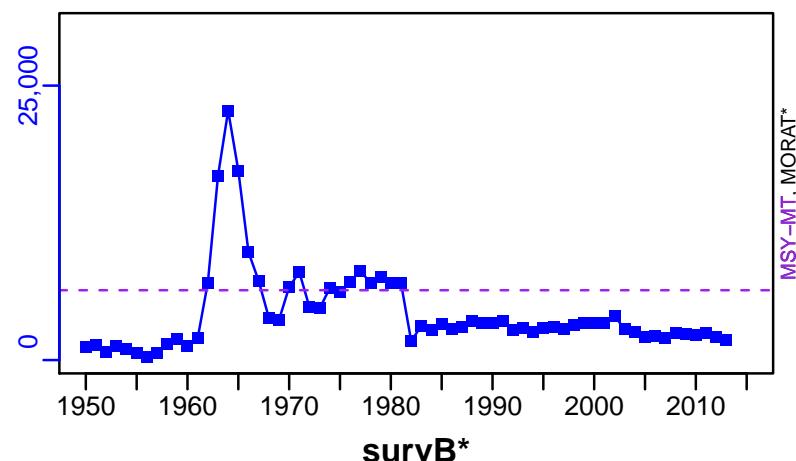


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	--- Lim BRP	* No Data

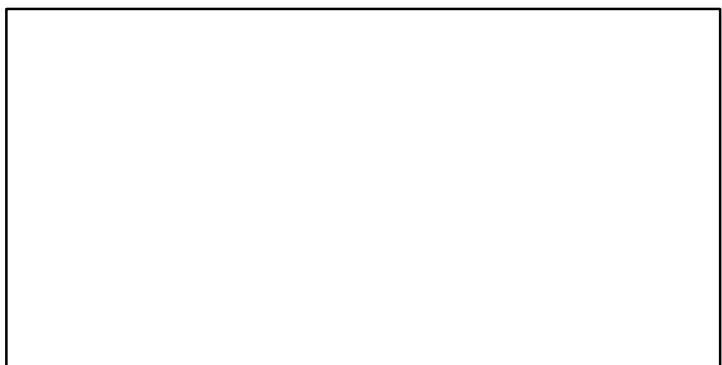
Atlantic bluefin tuna Western Atlantic [ATBTUNAWATL]

TC-MT, TL*, RecC* (1950–2015–PONS)

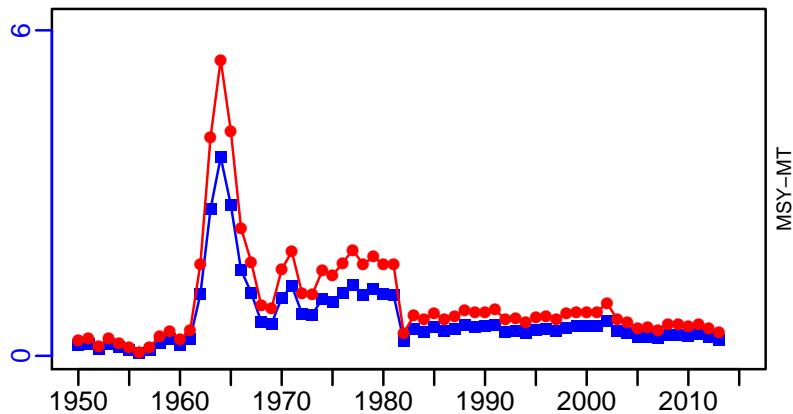
TAC-MT, Cpair*, Cadv* (1950–2015–PONS)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2015–PONS)



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Bigeye tuna Atlantic Ocean [BIGEYEATL]

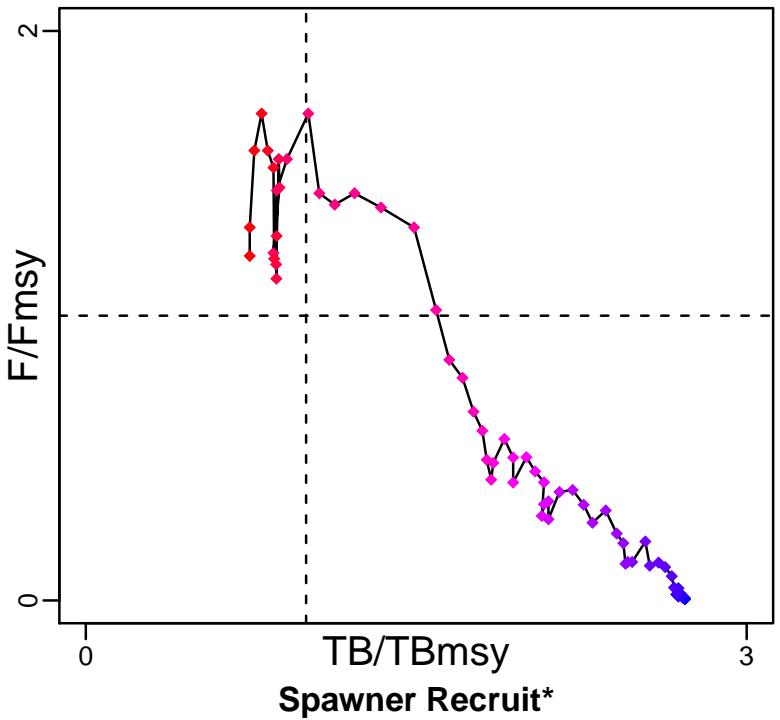
Metadata	
Scientific Name	Thunnus obesus
Current Assess ID	ICCAT-BIGEYEATL-1950-2016-PONS
Area	Atlantic Ocean
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2010, 2016

Reference Points			
Type	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	2010	92,000
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

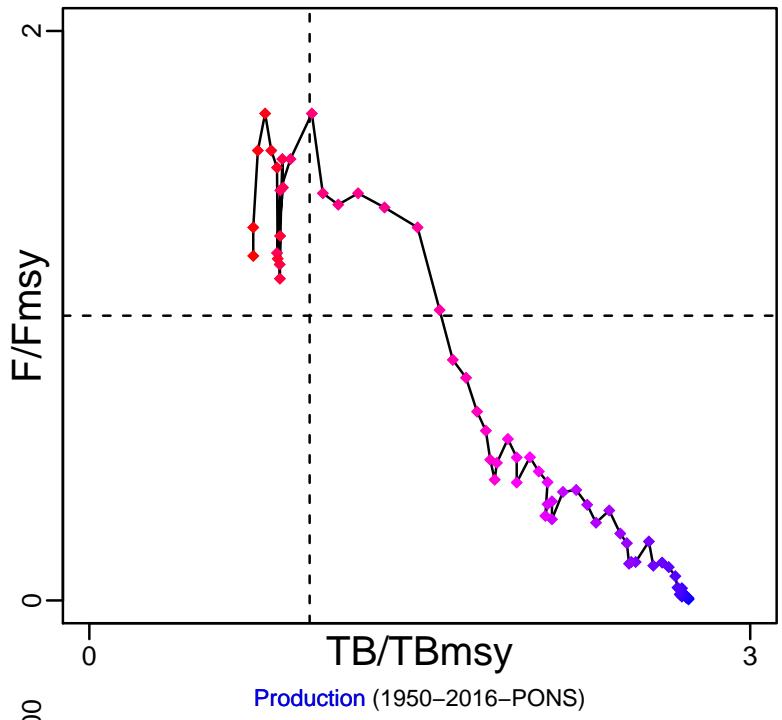
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2016	426,000	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2016	0.136	-	-	
ER	ER-calc-ratio	2016	0.184	-	-	
TC	TC-MT	2010	87,900			
TL	TL-MT	2016	72,400			
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.744			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2016	1.21			
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2010	0.964			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Bigeye tuna Atlantic Ocean [BIGEYEATL]

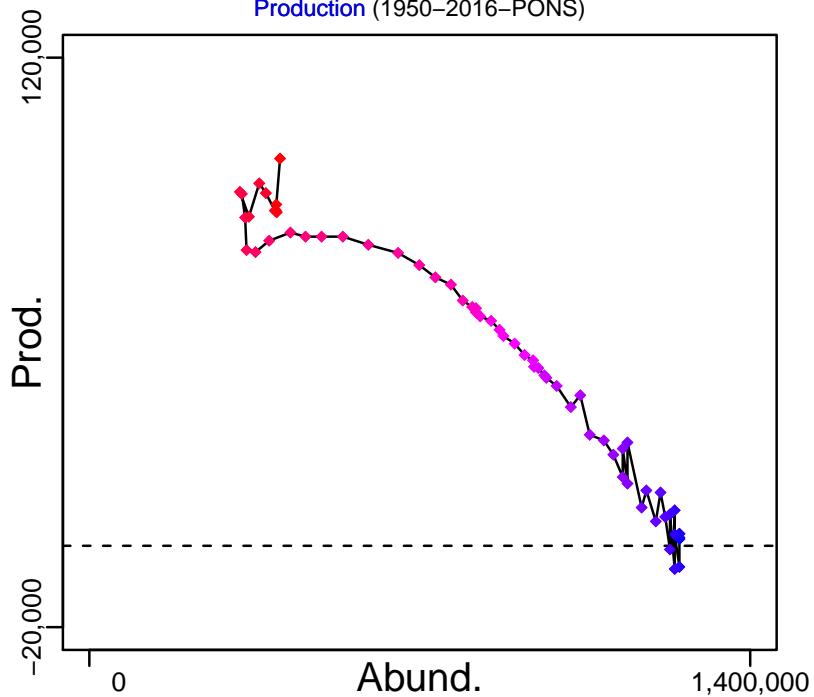
Kobe MSYpref (1950–2016–PONS)



Kobe MGTPref (1950–2016–PONS)



Production (1950–2016–PONS)

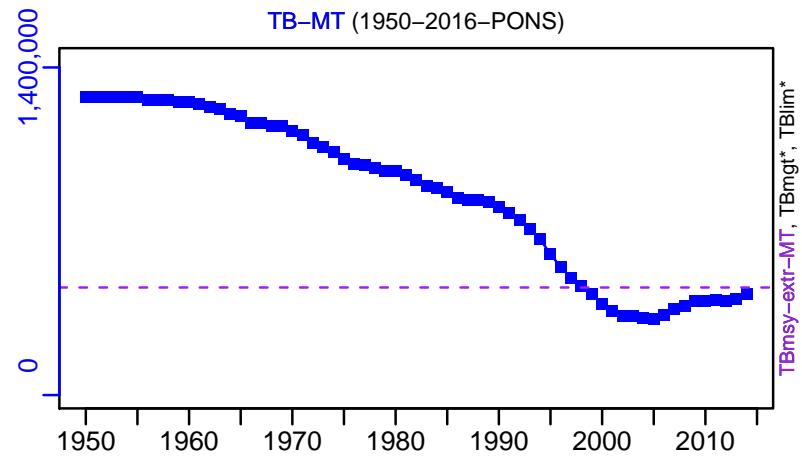


- ◆ Start Year
- ◆ End Year
- * No Data

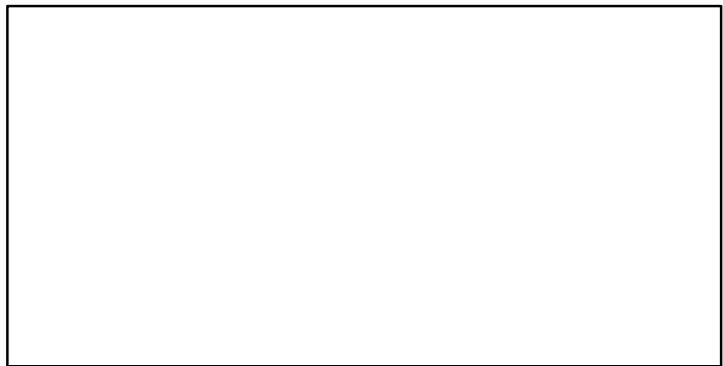
Bigeye tuna Atlantic Ocean [BGEYEATL]

TB-MT (1950–2016-PONS)

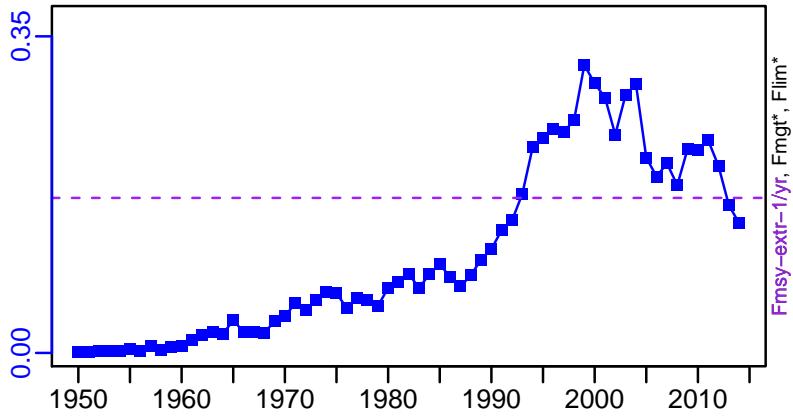
SSB*



TN *

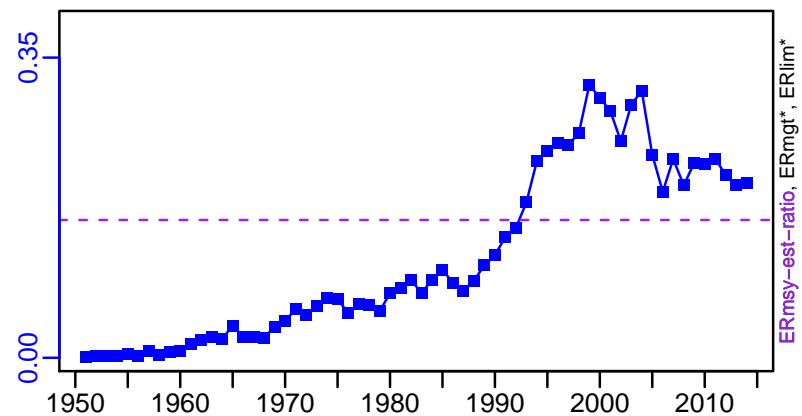


F-1/yr (1950–2016-PONS)



ER-calc-ratio (1950–2016-PONS)

Recruits*

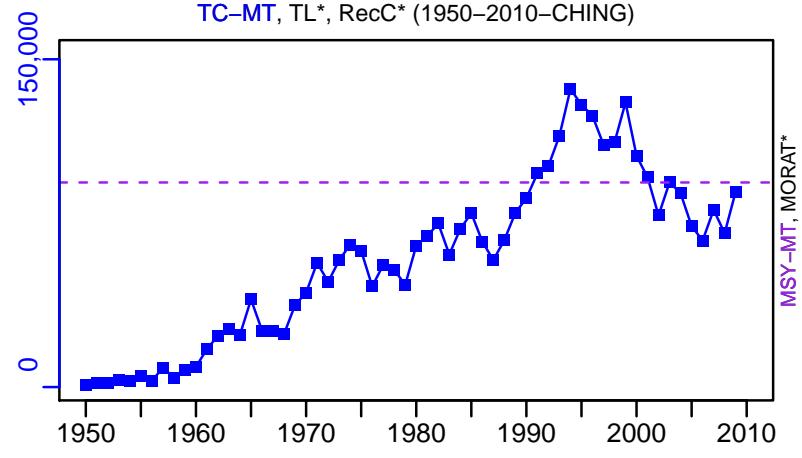


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	--- Lim BRP	* No Data

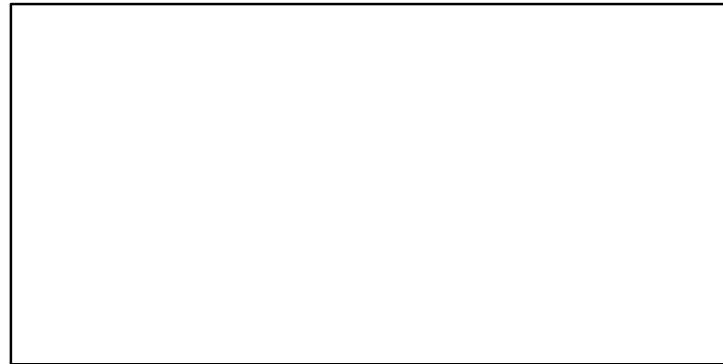
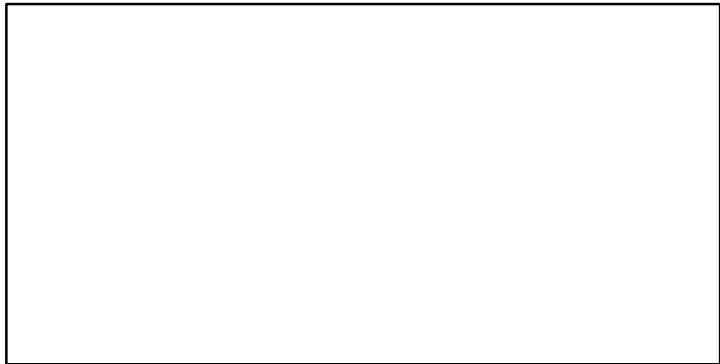
Bigeye tuna Atlantic Ocean [BIGEYEATL]

TC-MT, TL*, RecC* (1950–2010–CHING)

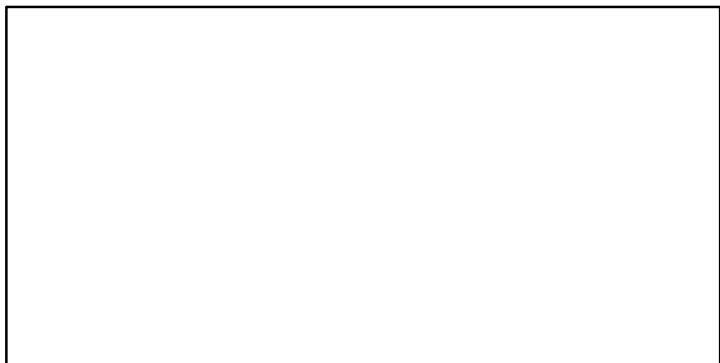
TAC*, Cpair*, Cadv*



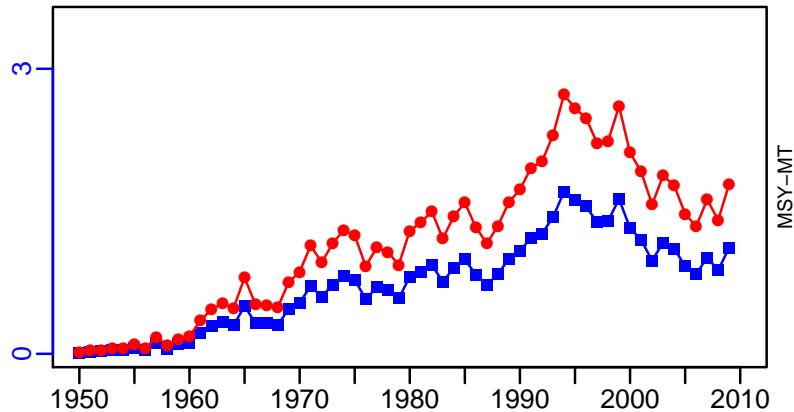
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2010–CHING)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Blue marlin Atlantic Ocean [BMARLINATL]

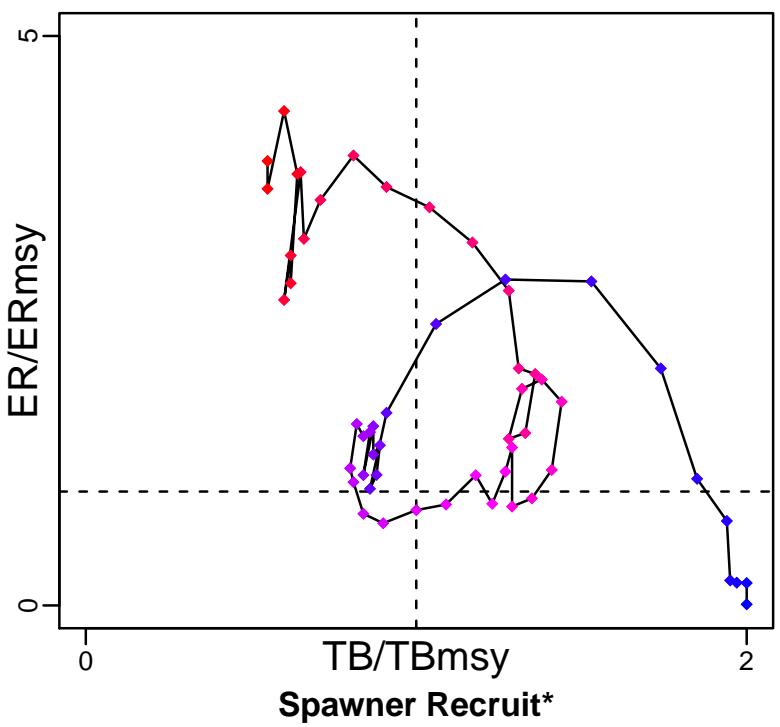
Metadata	
Scientific Name	Makaira nigricans
Current Assess ID	ICCAT-BMARLINATL-1993-2017-SISIMP2021
Area	Atlantic Ocean
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2010, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-extr-MT	2010	32,515
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-calc-ratio	2010	0.062
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2017	3056
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

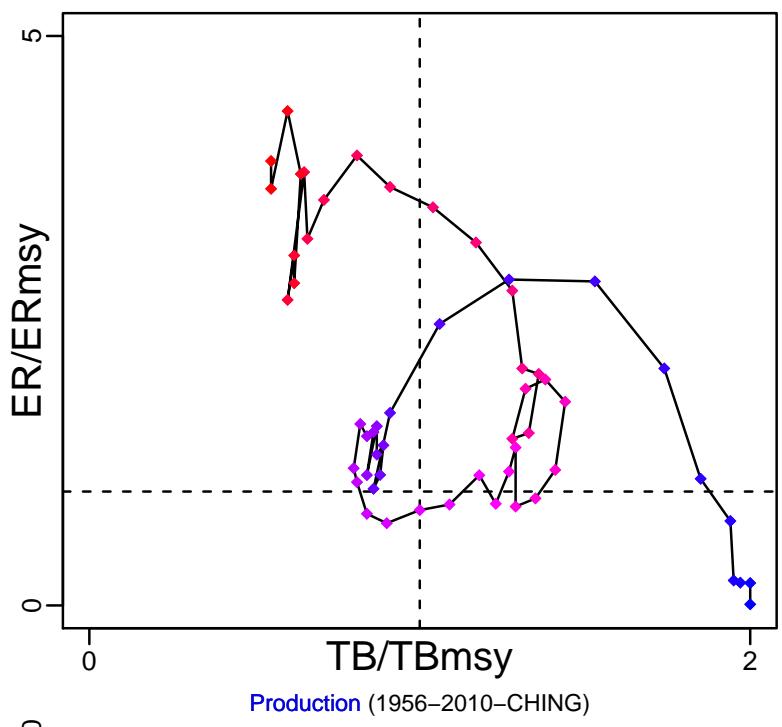
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2010	14,300	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2010	0.222	-	-	
ER	ER-ratio	2010	0.24	-	-	
TC	TC-MT	2017	1987			
TL	-	-	-			
TB/TBmsy	TBdivTBmsy-dimensionless	2010	0.55			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2010	1.72			
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2010	3.902			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Blue marlin Atlantic Ocean [BMARLINATL]

Kobe MSYpref (1956–2010–CHING)

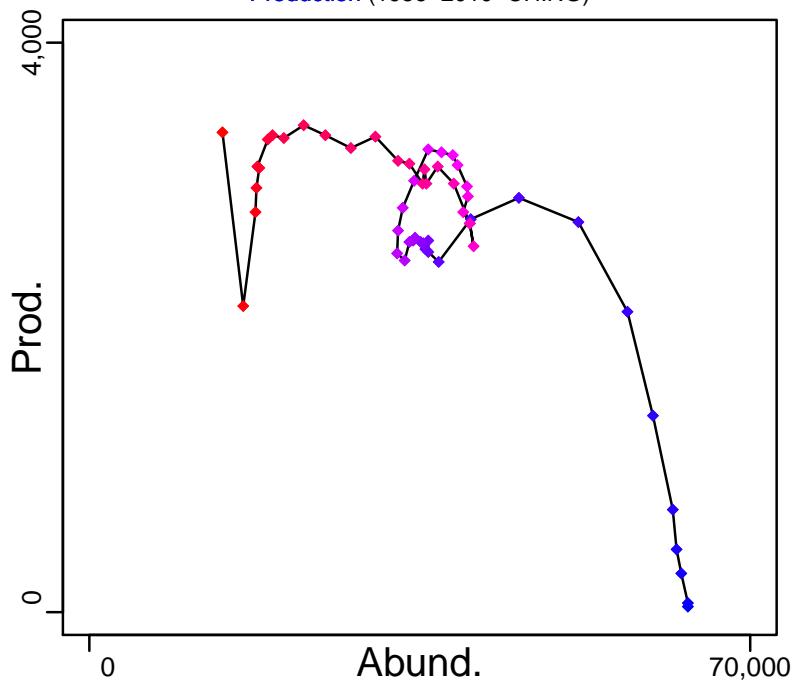
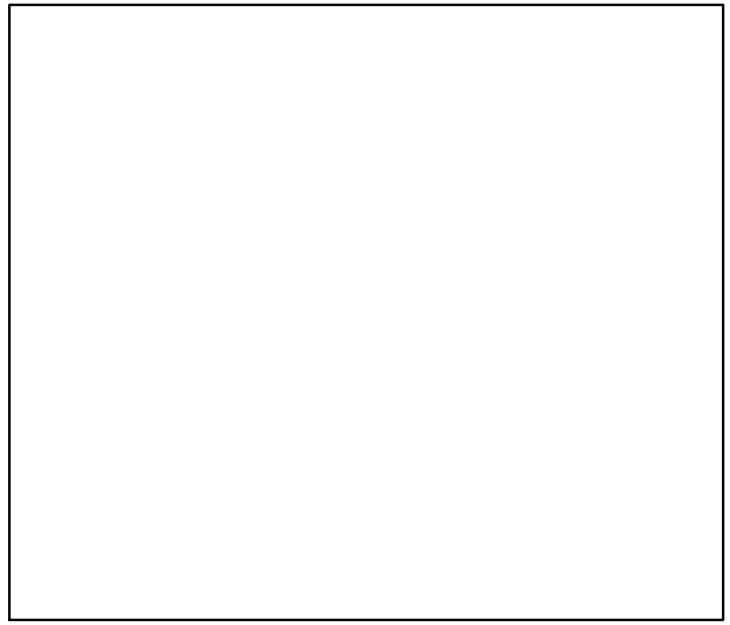


Kobe MGTPref (1956–2010–CHING)



Spawner Recruit*

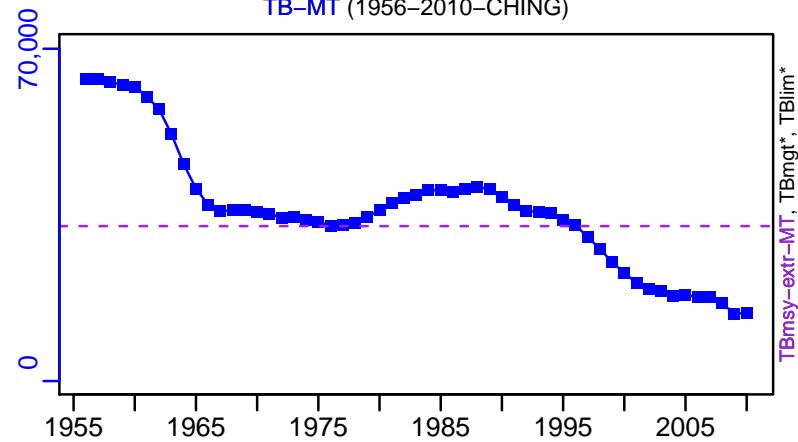
Production (1956–2010–CHING)



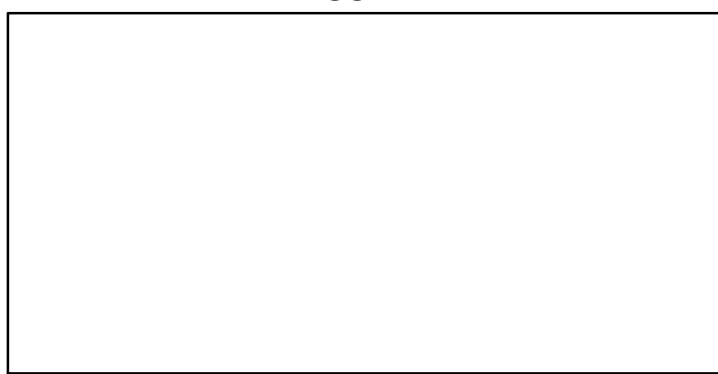
◆ Start Year ◆ End Year * No Data

Blue marlin Atlantic Ocean [BMARLINATL]

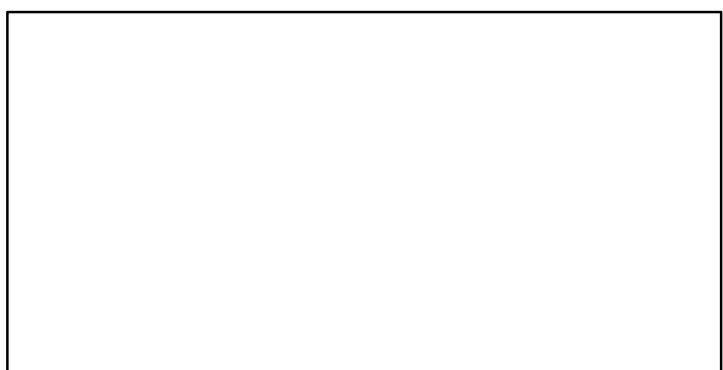
TB-MT (1956–2010–CHING)



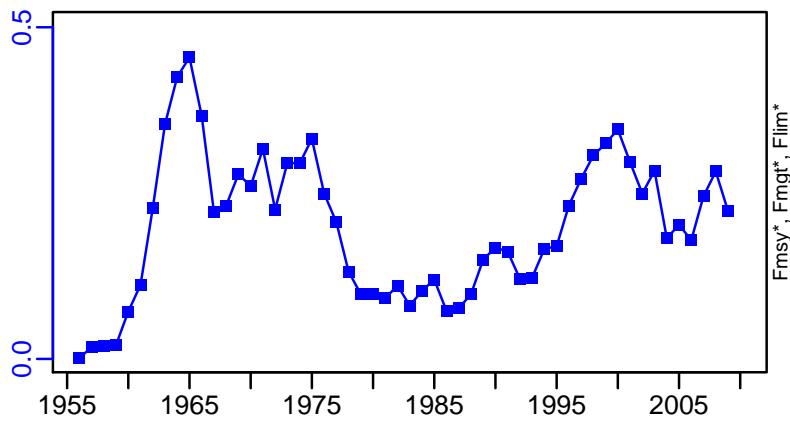
SSB*



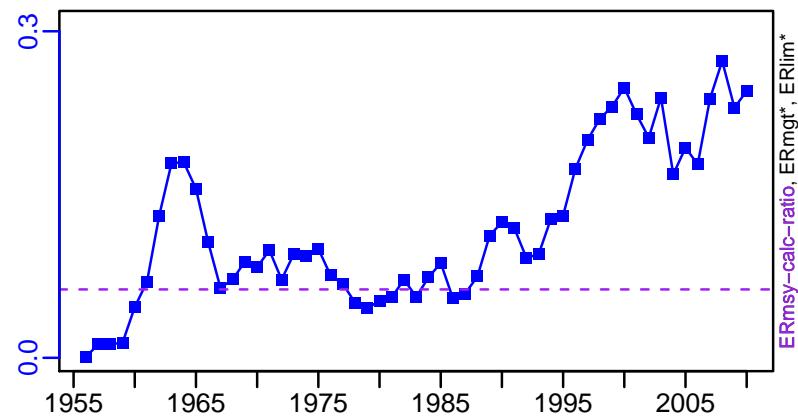
TN *



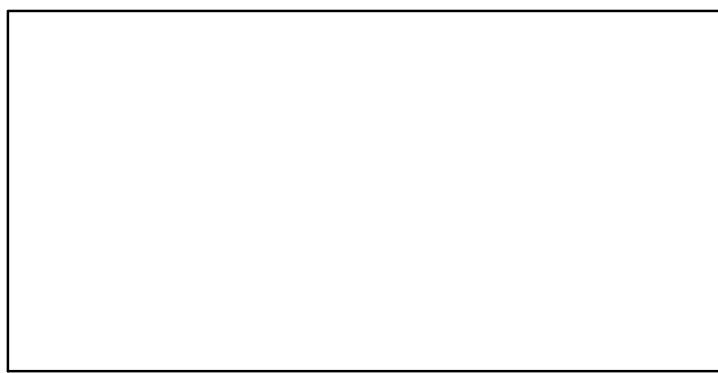
F-1/yr (1956–2010–CHING)



ER-ratio (1956–2010–CHING)



Recruits*

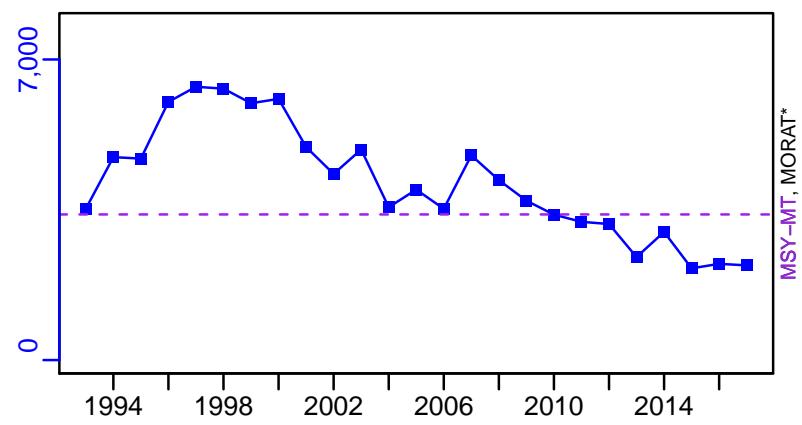


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

Blue marlin Atlantic Ocean [BMARLINATL]

TC-MT, TL*, RecC* (1993–2017–SISIMP2021)

TAC*, Cpair*, Cadv*



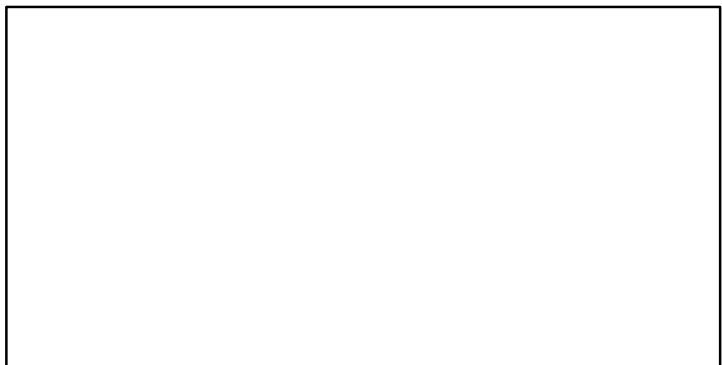
survB*



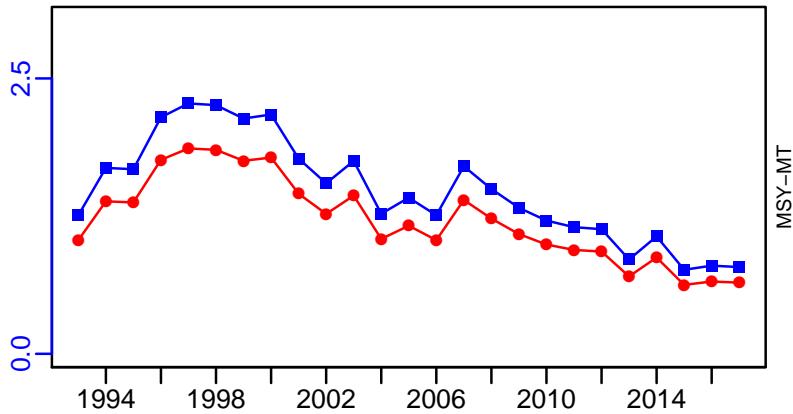
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1993–2017–SISIMP2021)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Sailfish Eastern Atlantic [SAILEATL]

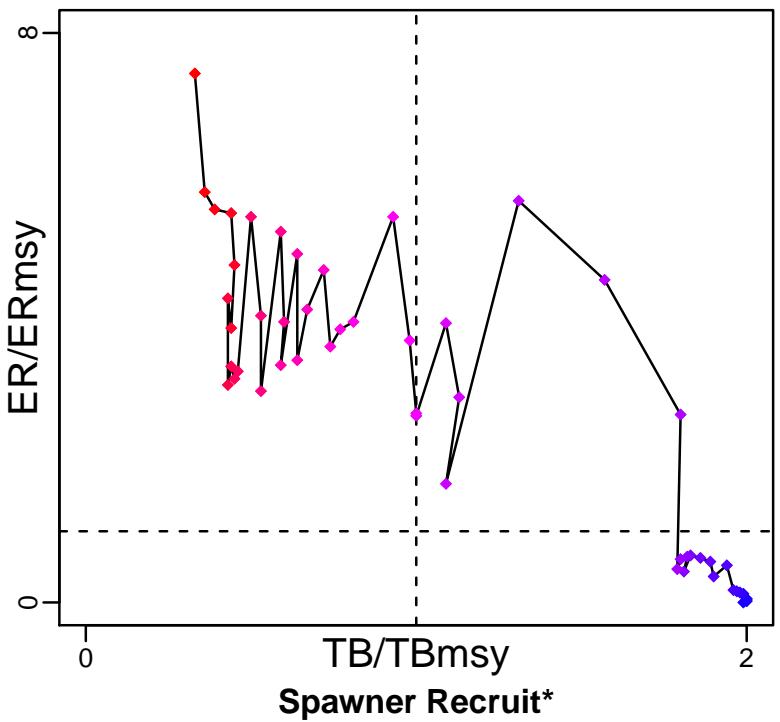
Metadata	
Scientific Name	Istiophorus albicans
Current Assess ID	ICCAT-SAILEATL-1956-2010-CHING
Area	Eastern Atlantic
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2010

Reference Points			
Type	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	2010	851
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

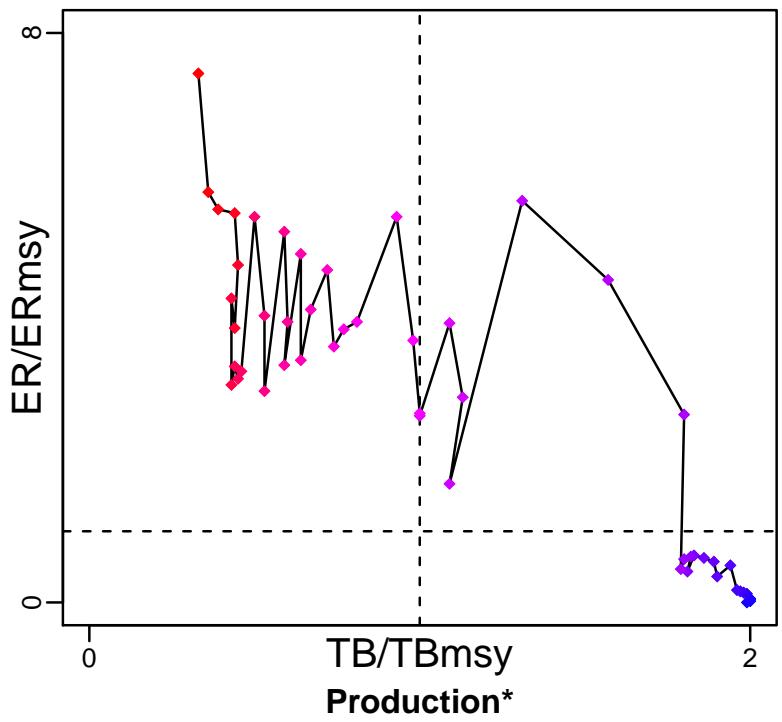
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2010	3620	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-ratio	2010	0.428	-	-	
TC	TC-MT	2010	2770			
TL	-	-	-			
TB/TBmsy	TBdivTBmsy-dimensionless	2010	0.26			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2010	3.08			
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2010	7.431			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Sailfish Eastern Atlantic [SAILEATL]

Kobe MSYpref (1956–2010–CHING)



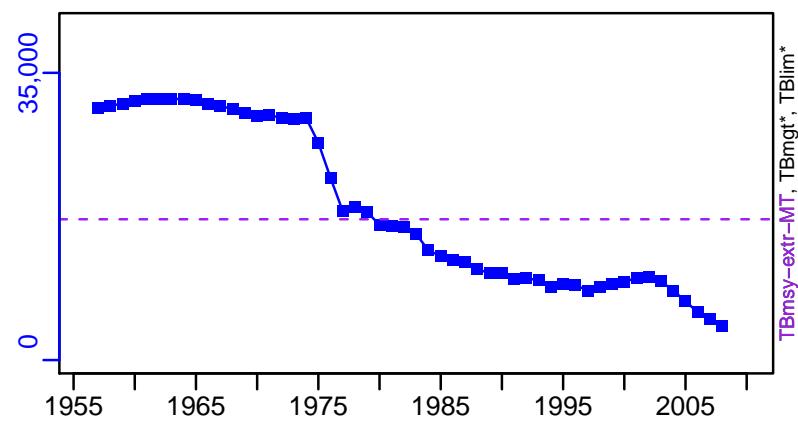
Kobe MGTPref (1956–2010–CHING)



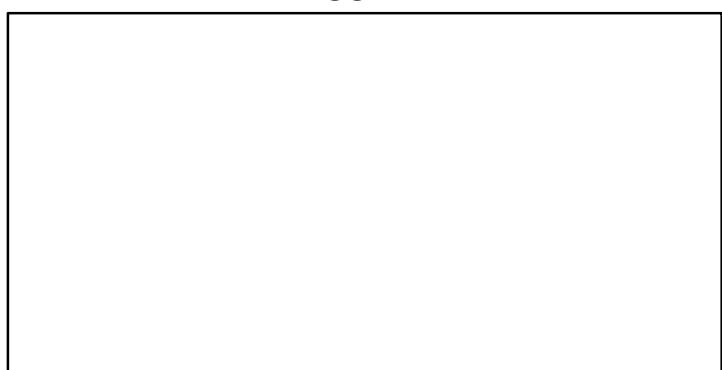
◆ Start Year	◆ End Year	*	No Data
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Sailfish Eastern Atlantic [SAILEATL]

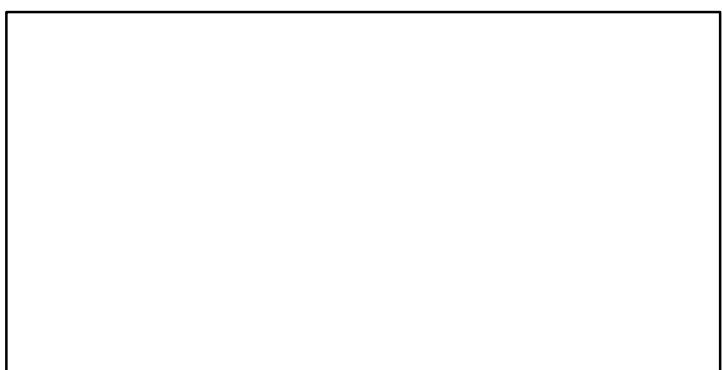
TB-MT (1956–2010–CHING)



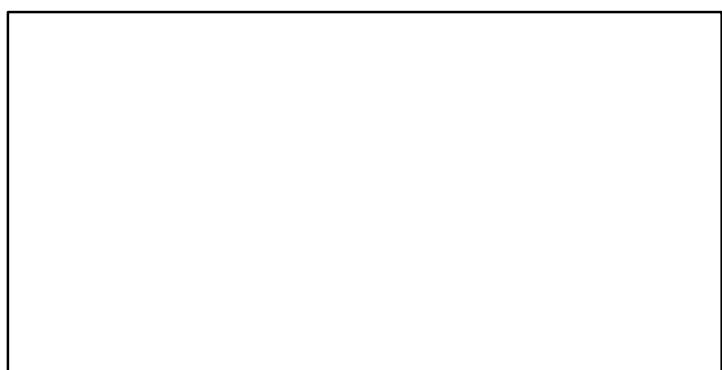
SSB*



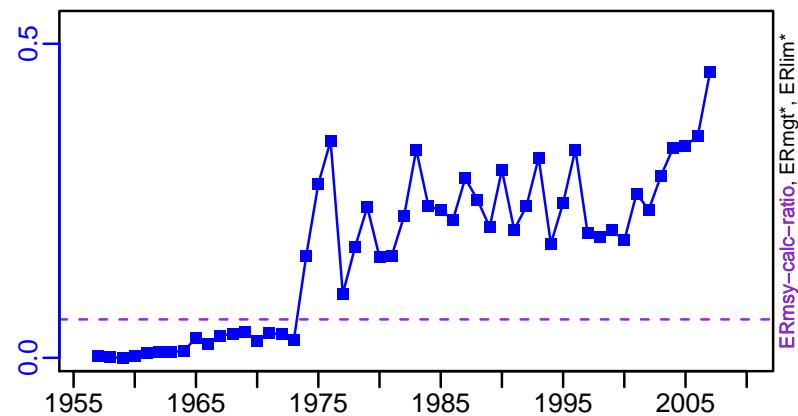
TN *



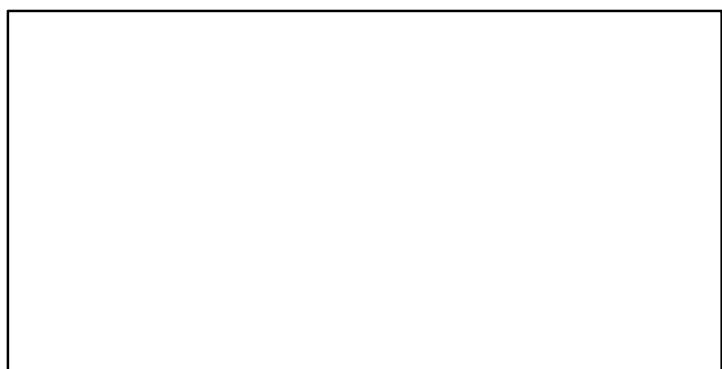
F*



ER-ratio (1956–2010–CHING)



Recruits*

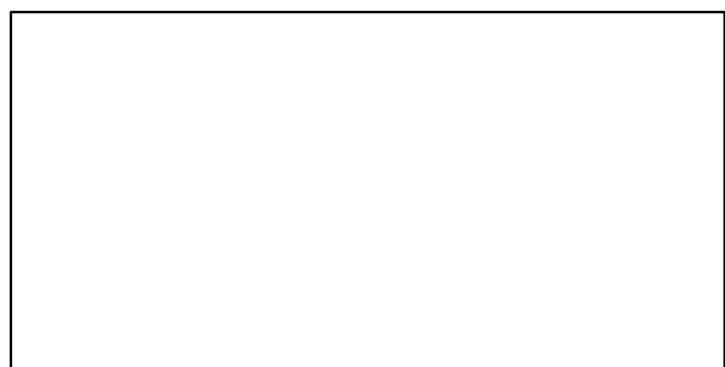
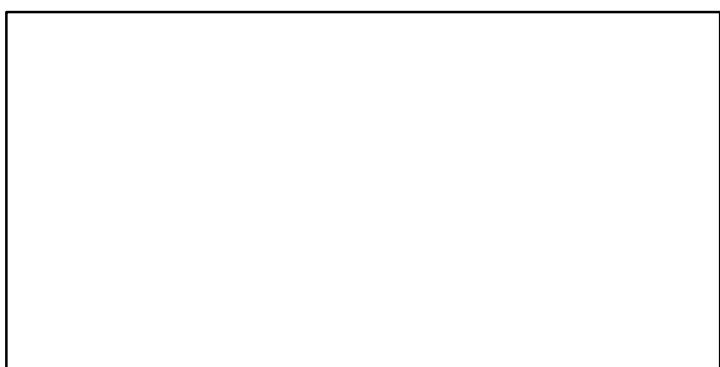
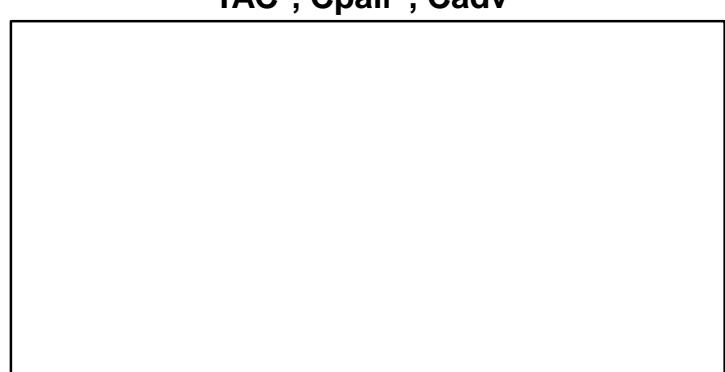
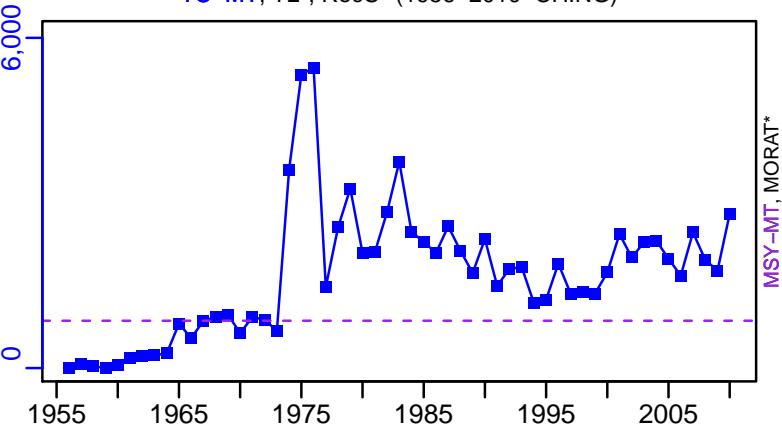


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	--- Lim BRP	* No Data

Sailfish Eastern Atlantic [SAILEATL]

TC-MT, TL*, RecC* (1956–2010–CHING)

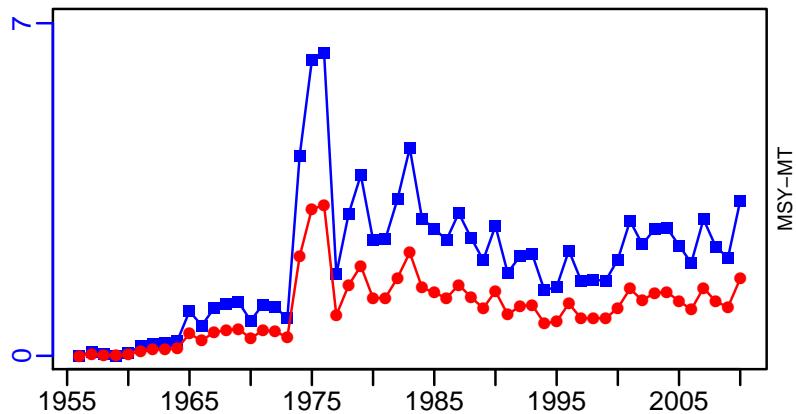
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1956–2010–CHING)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Sailfish Western Atlantic [SAILWATL]

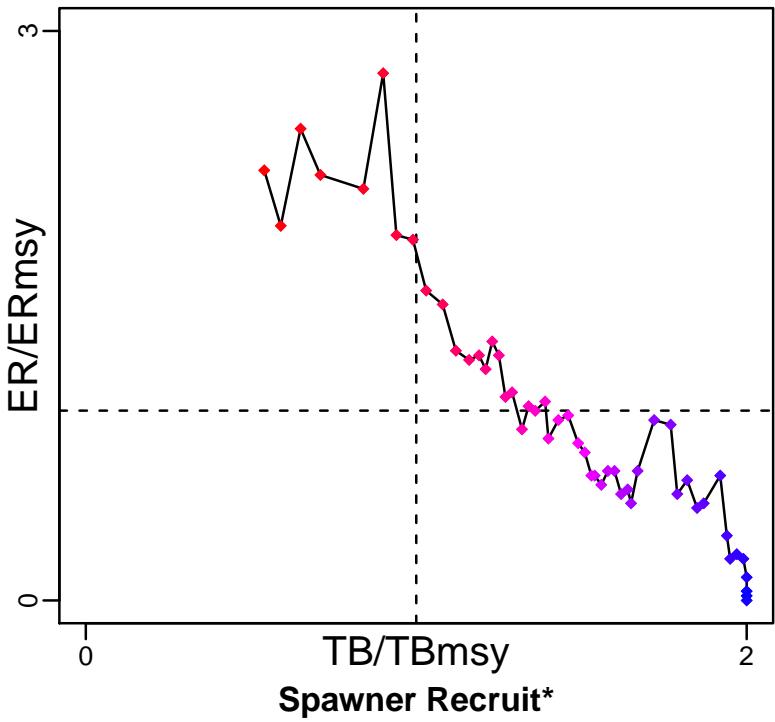
Metadata	
Scientific Name	Istiophorus albicans
Current Assess ID	ICCAT-SAILWATL-1956-2010-CHING
Area	Western Atlantic
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2010

Reference Points			
Type	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	2010	850
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

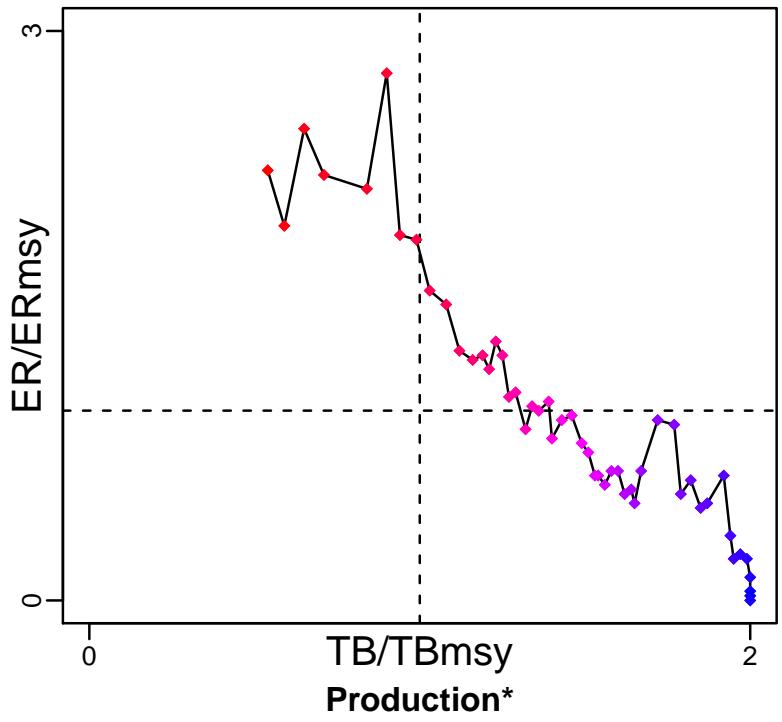
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2010	14,500	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-ratio	2010	0.093	-	-	
TC	TC-MT	2010	625			
TL	-	-	-			
TB/TBmsy	TBdivTBmsy-dimensionless	2010	0.28			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2010	2.2			
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2010	2.266			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Sailfish Western Atlantic [SAILWATL]

Kobe MSYpref (1956–2010–CHING)



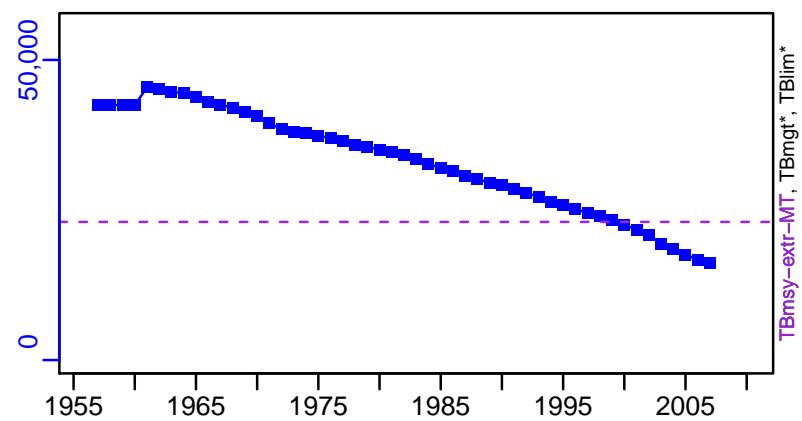
Kobe MGTPref (1956–2010–CHING)



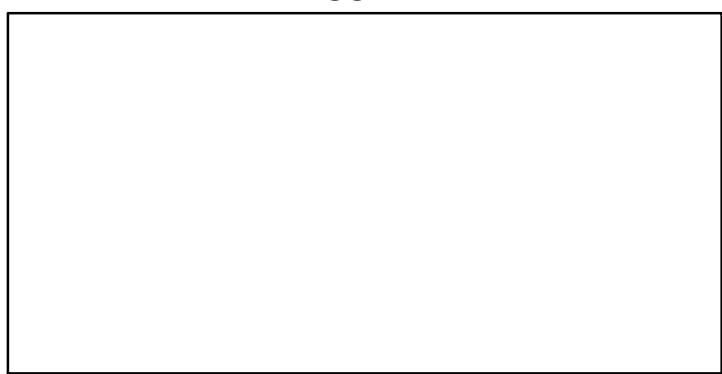
◆ Start Year ◆ End Year * No Data

Sailfish Western Atlantic [SAILWATL]

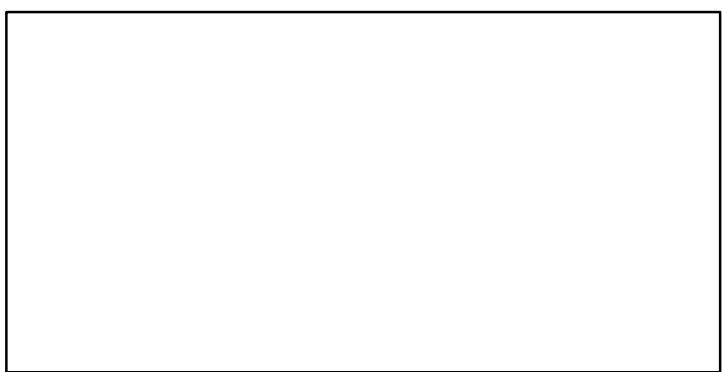
TB-MT (1956–2010–CHING)



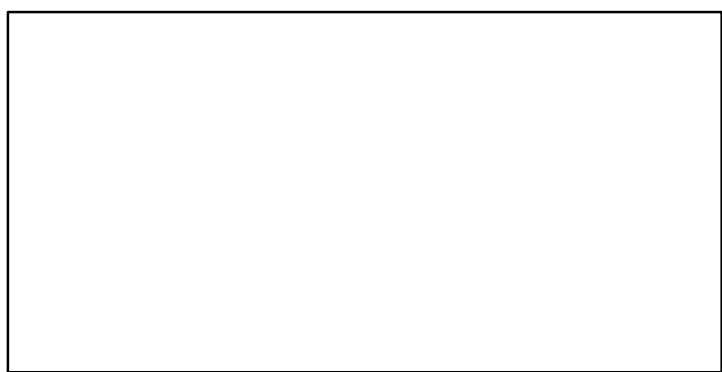
SSB*



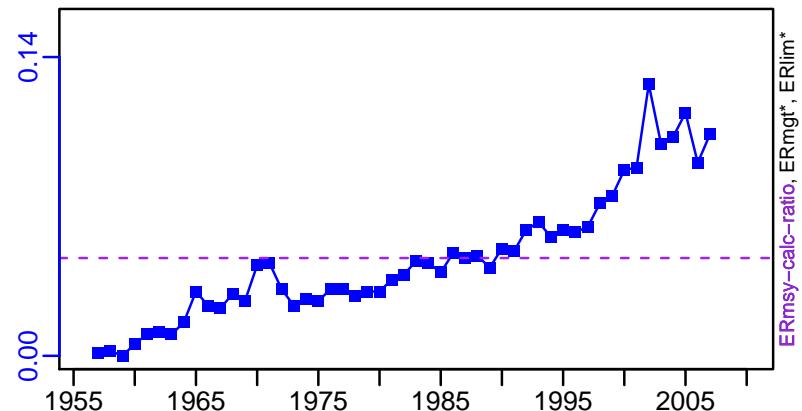
TN *



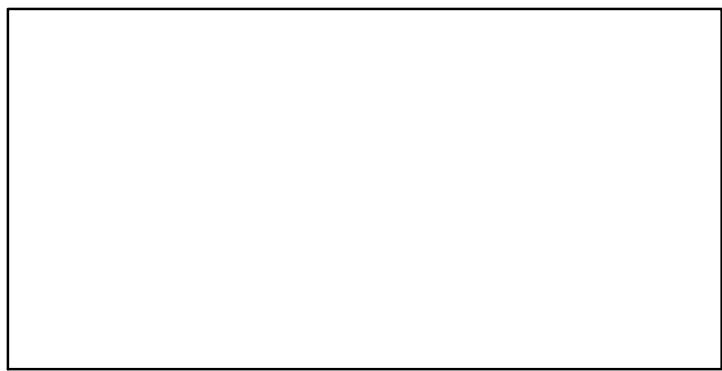
F*



ER-ratio (1956–2010–CHING)



Recruits*

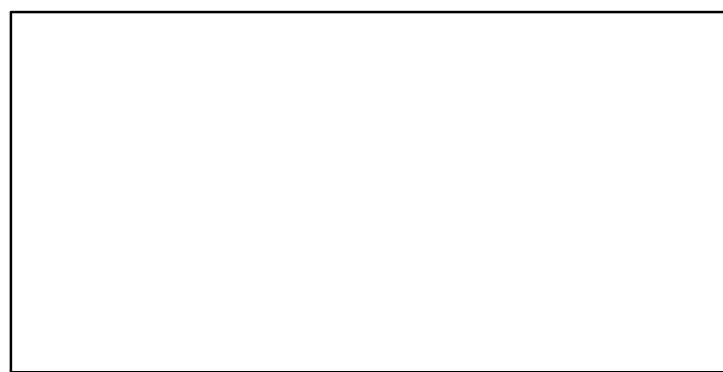
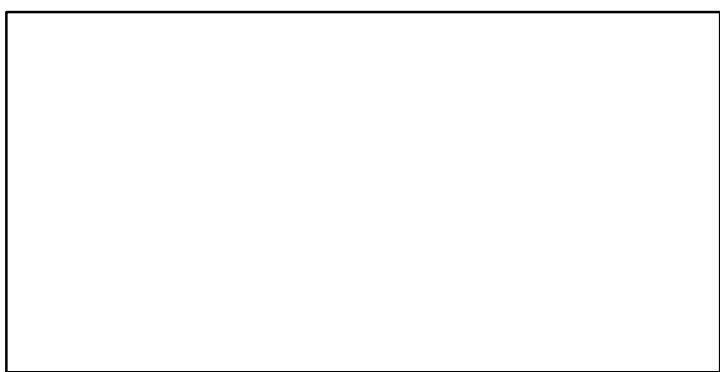
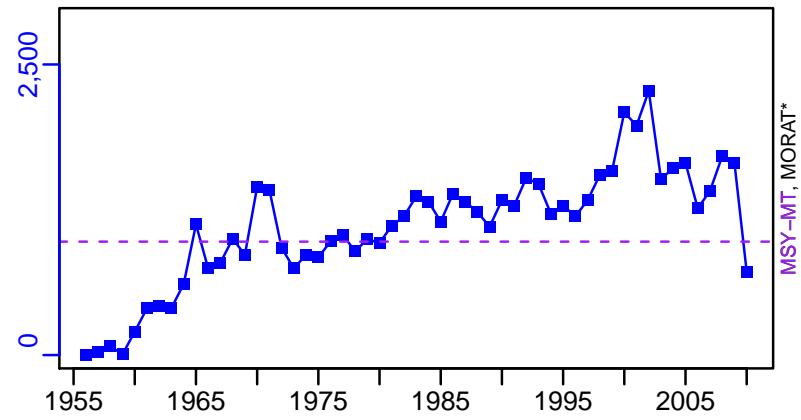


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - - MSY-based BRP | --- Lim BRP | * No Data |

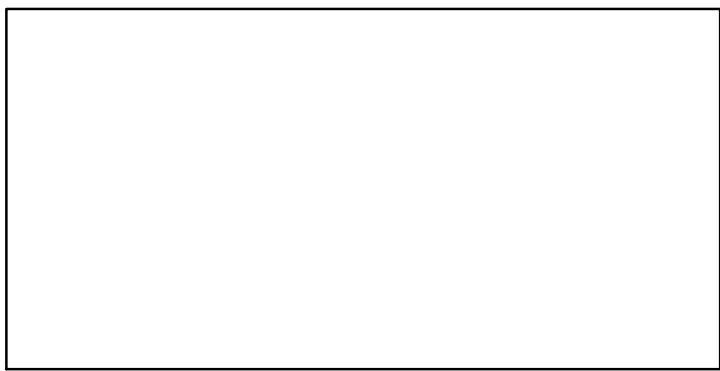
Sailfish Western Atlantic [SAILWATL]

TC-MT, TL*, RecC* (1956–2010–CHING)

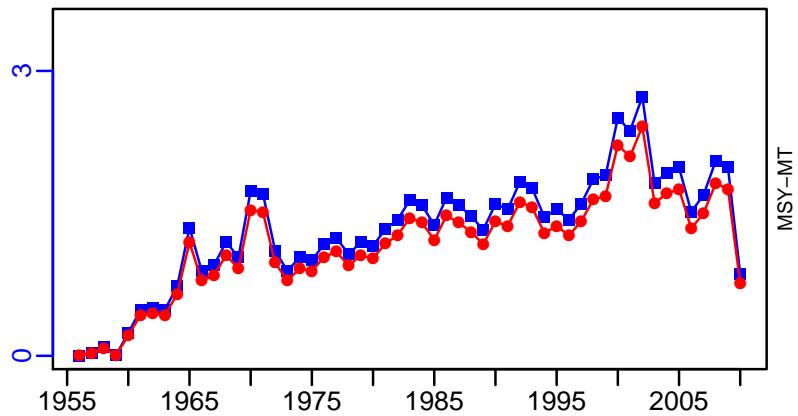
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1956–2010–CHING)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - MSY	* No Data

Skipjack tuna Eastern Atlantic [SKJEATL]

Metadata	
Scientific Name	Katsuwonus pelamis
Current Assess ID	ICCAT-SKJEATL-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	2010, 2016

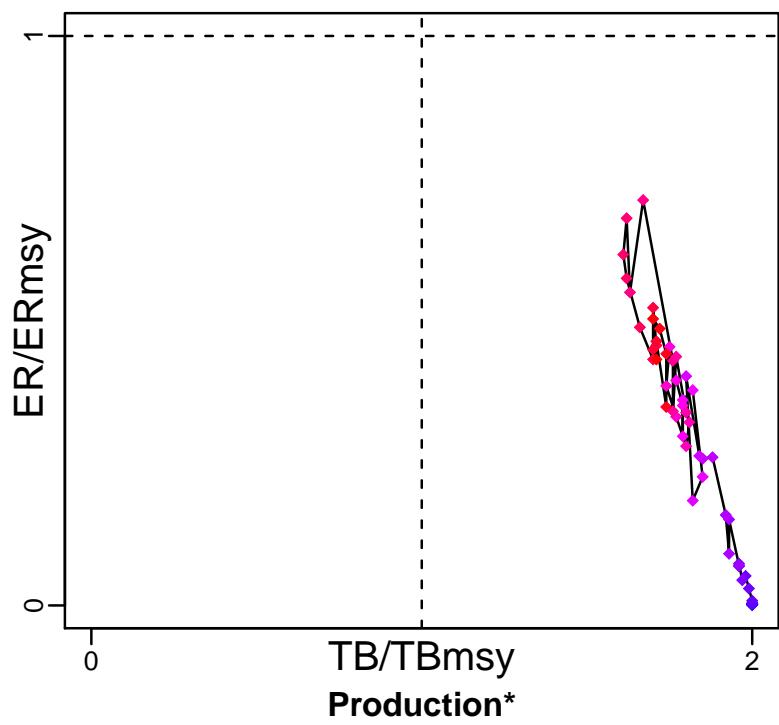
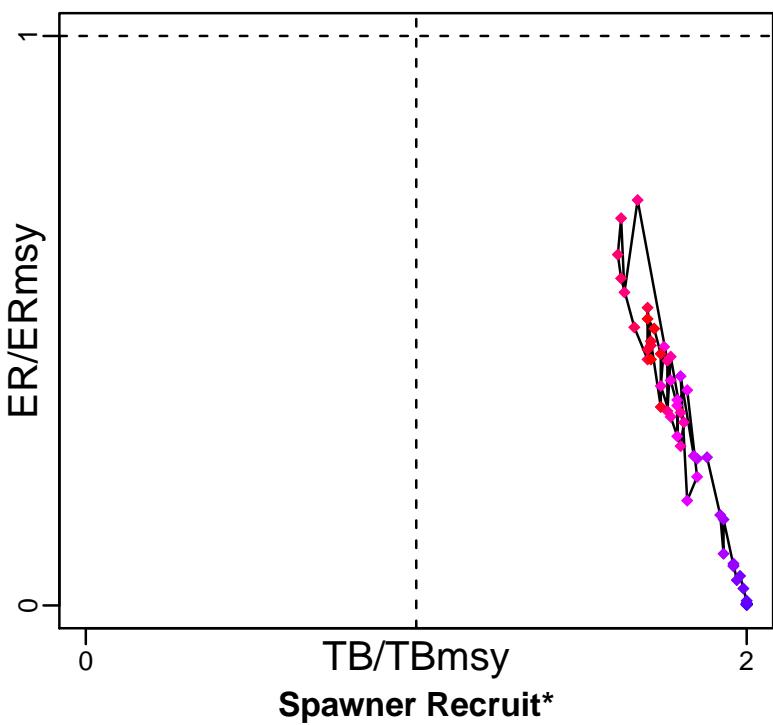
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-extr-MT	2010	384,115
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2010	0.637
ERmsy	ERmsy-calc-ratio	2010	0.407
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	156,500
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	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	2016	217,000			
TB/TBmsy	TBdivTBmsy-dimensionless	2010	1.71			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2010	0.27			
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2010	0.432			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Skipjack tuna Eastern Atlantic [SKJEATL]

Kobe MSYpref (1950–2010–CHING)

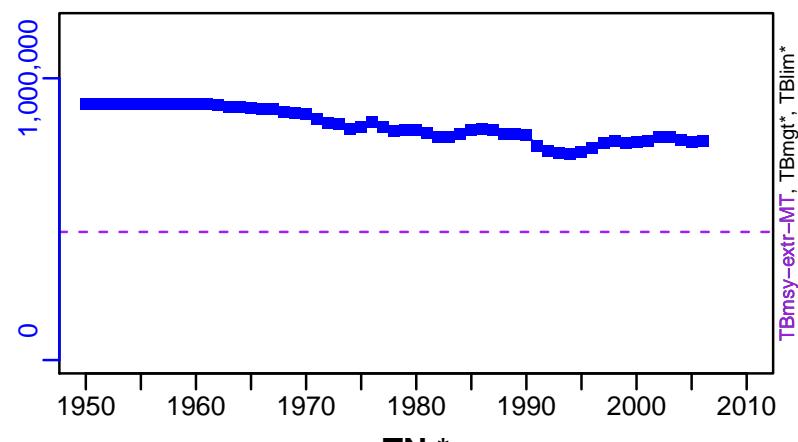
Kobe MGTPref (1950–2010–CHING)



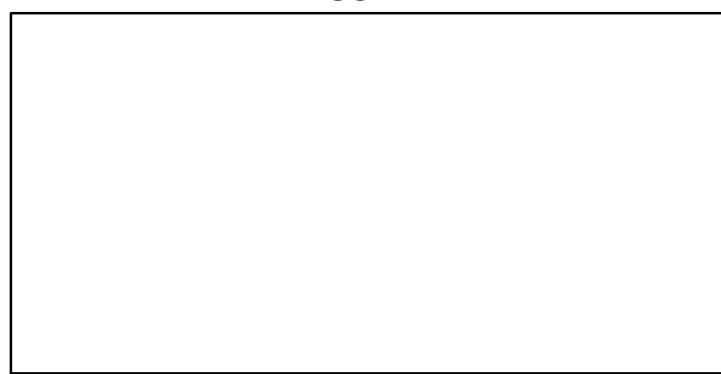
◆ Start Year ◆ End Year * No Data

Skipjack tuna Eastern Atlantic [SKJEATL]

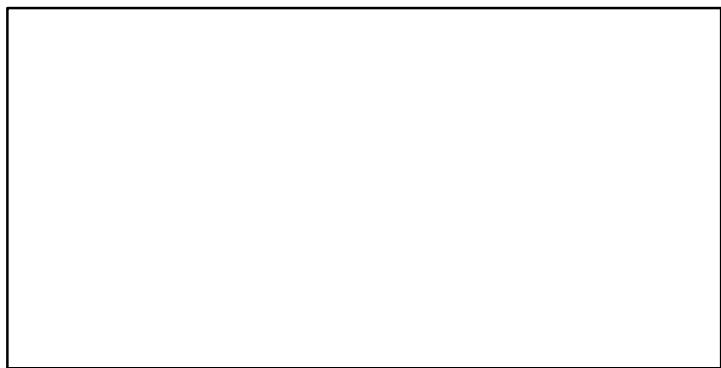
TB-MT (1950–2010-CHING)



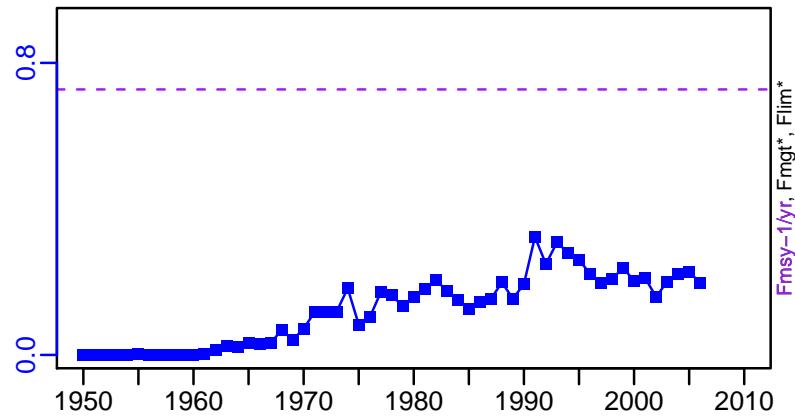
SSB*



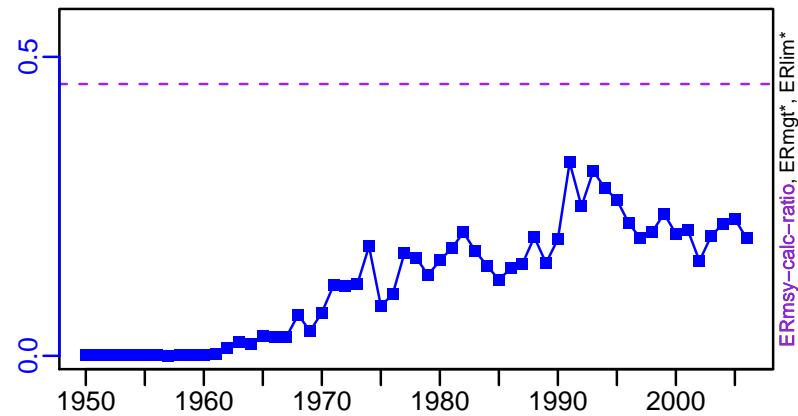
TN *



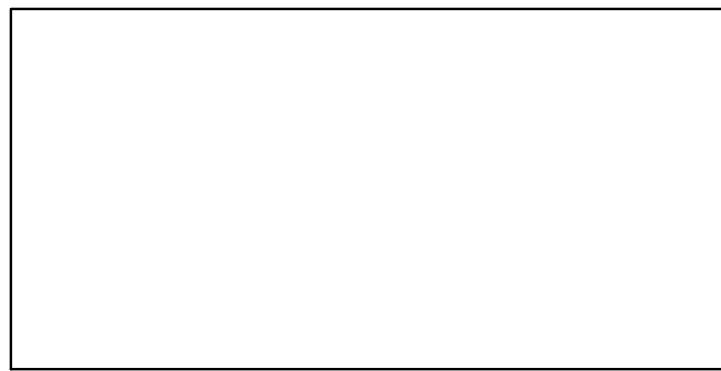
F-1/yr (1950–2010-CHING)



ER-ratio (1950–2010-CHING)



Recruits*

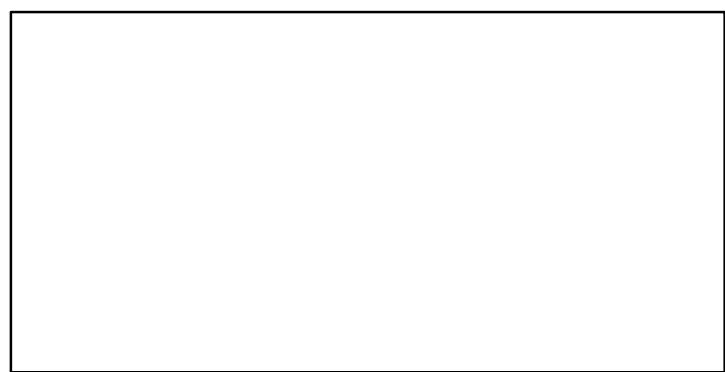
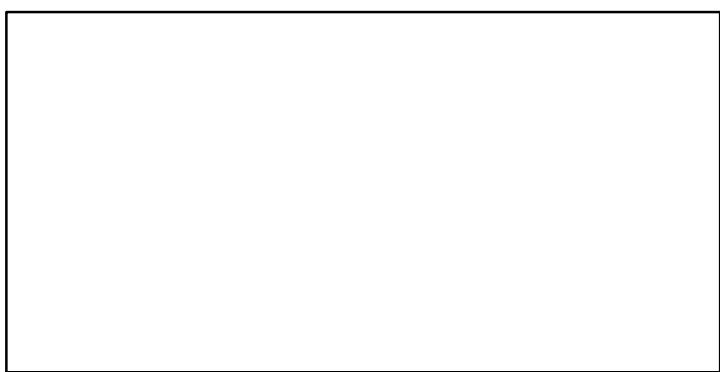
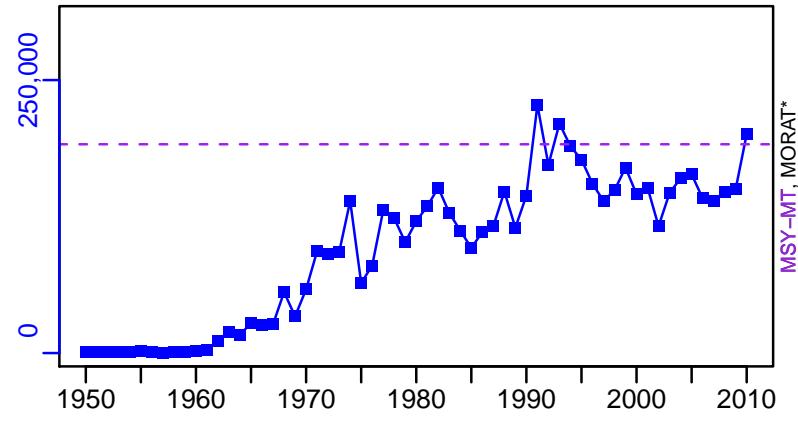


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - - MSY-based BRP | --- Lim BRP | * No Data |

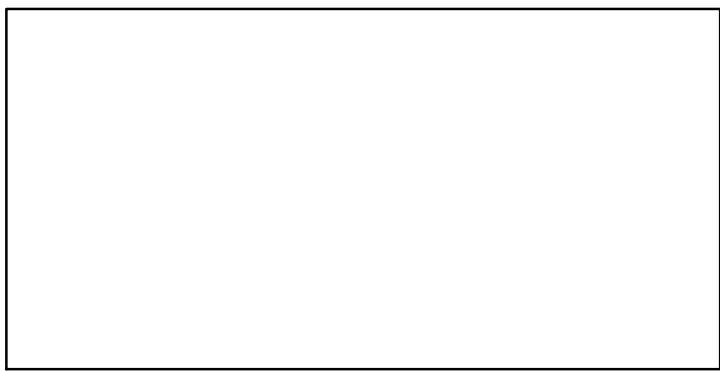
Skipjack tuna Eastern Atlantic [SKJEATL]

TC-MT, TL*, RecC* (1950–2010–CHING)

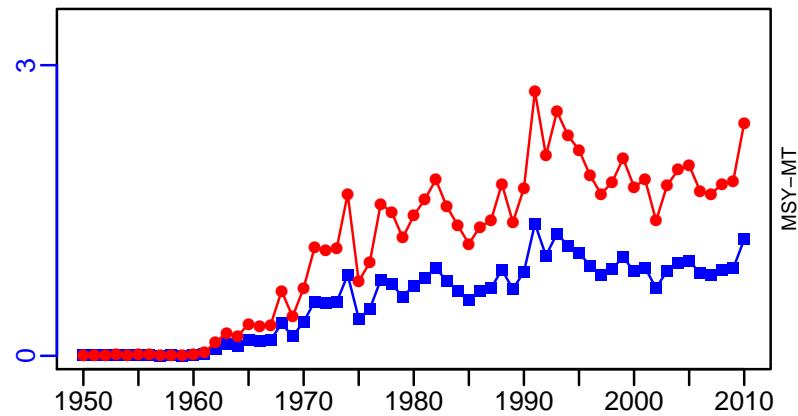
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2010–CHING)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Skipjack tuna Western Atlantic [SKJWATL]

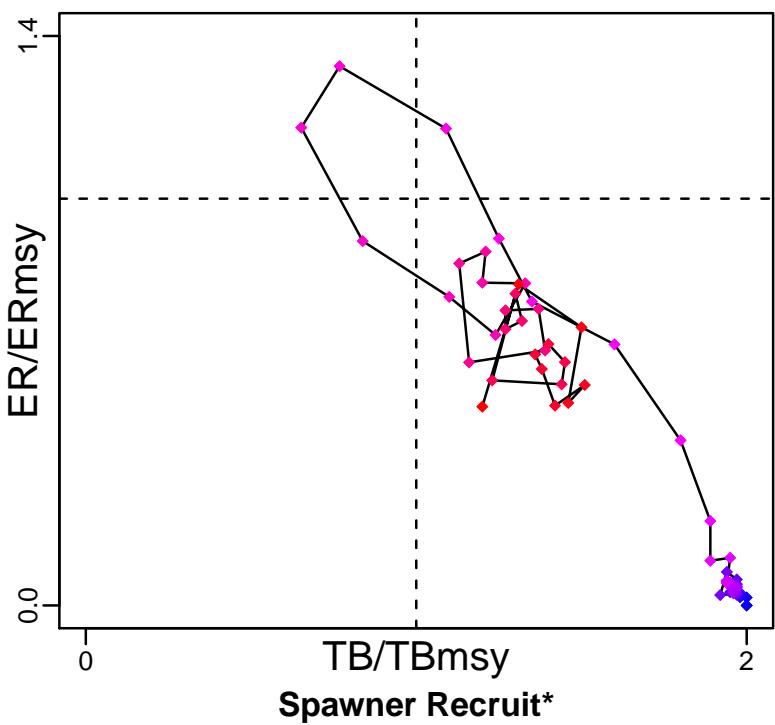
Metadata	
Scientific Name	Katsuwonus pelamis
Current Assess ID	ICCAT-SKJWATL-1950-2014-PONS
Area	Western Atlantic
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
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	2014	31,620
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

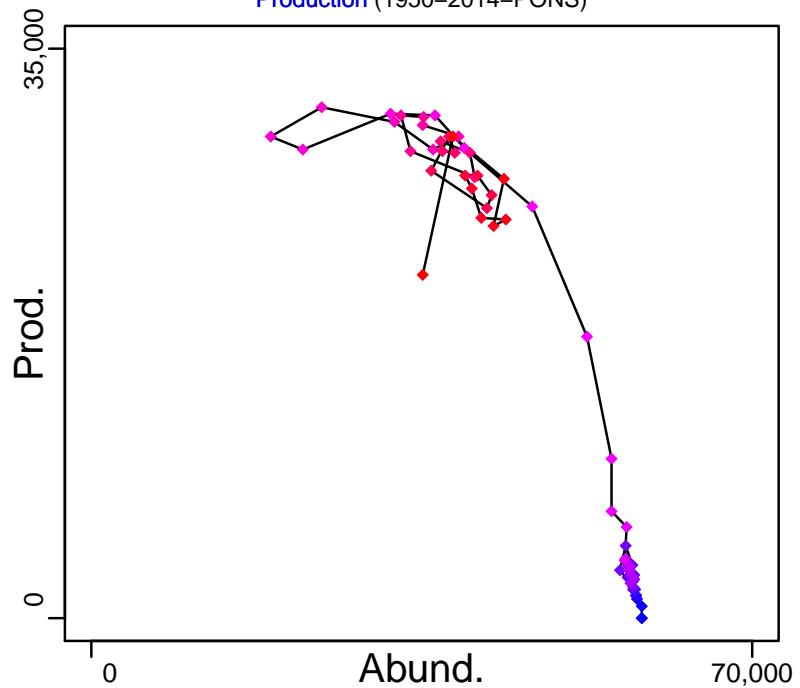
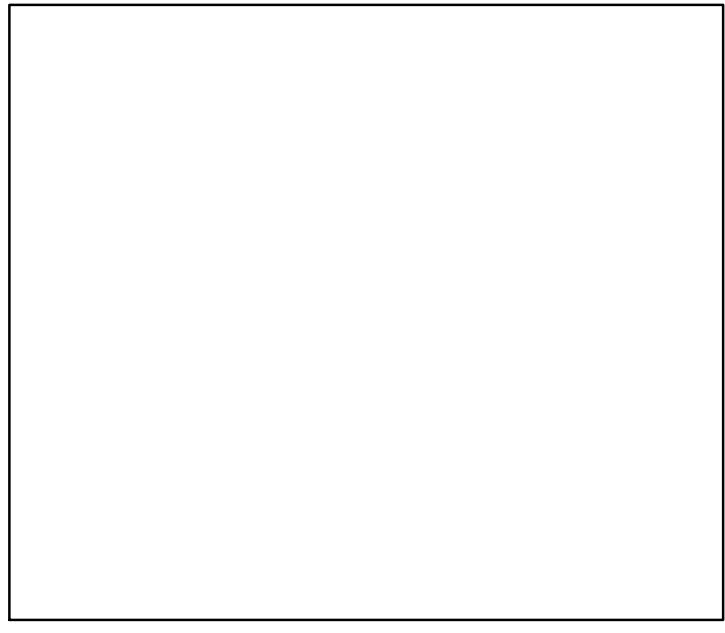
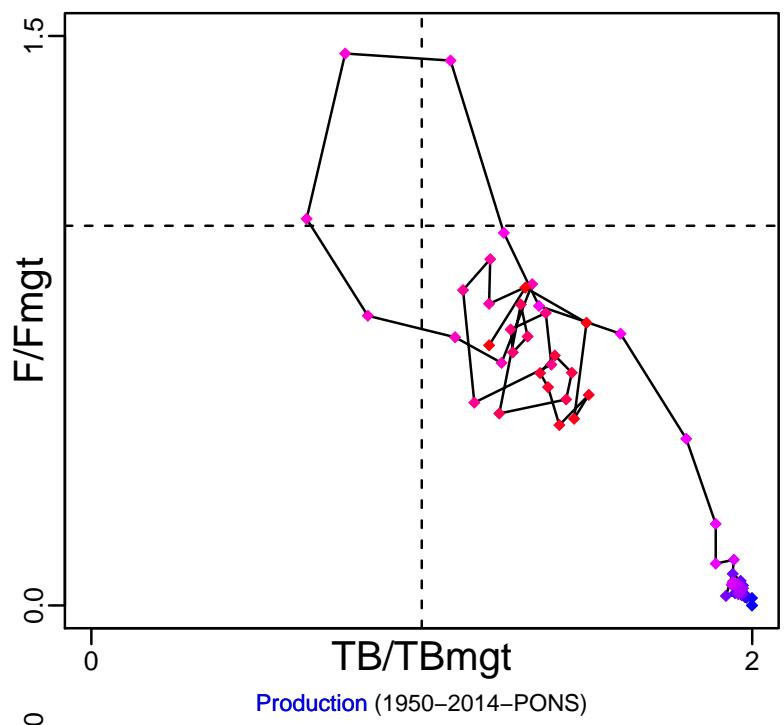
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2014	37,600	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2014	0.74	-	-	
ER	ER-calc-ratio	2014	0.53	-	-	
TC	TC-MT	2014	18,600			
TL	-	-	-			
TB/TBmsy	TBdivTBmsy-dimensionless	2014	1.29			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2014	0.683			
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	-	-	-			

Skipjack tuna Western Atlantic [SKJWATL]

Kobe MSYpref (1950–2014–PONS)



Kobe MGTPref (1950–2014–PONS)

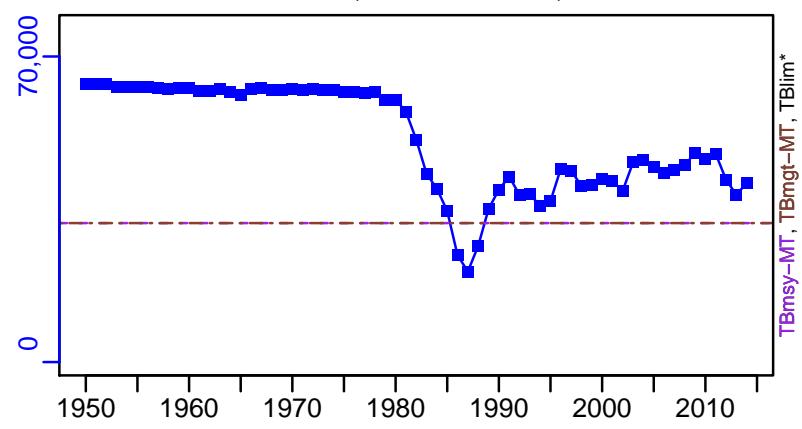


◆ Start Year ◆ End Year * No Data

Skipjack tuna Western Atlantic [SKJWATL]

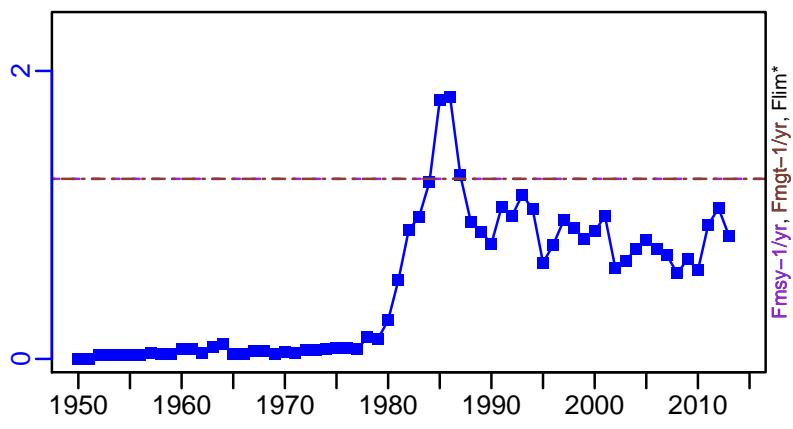
TB-MT (1950–2014–PONS)

SSB*



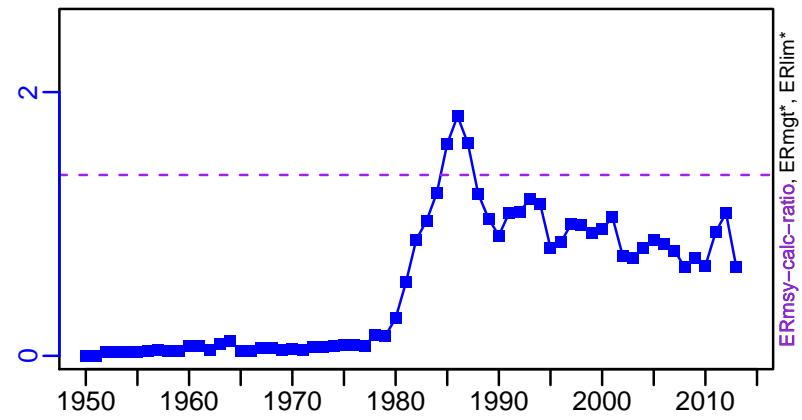
TN *

F-1/yr (1950–2014–PONS)



ER-calc-ratio (1950–2014–PONS)

Recruits*

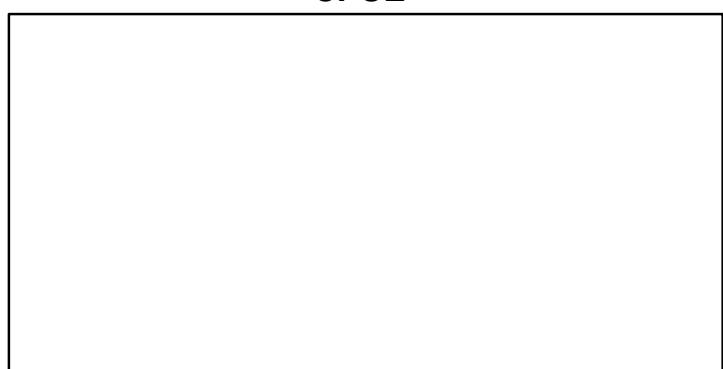
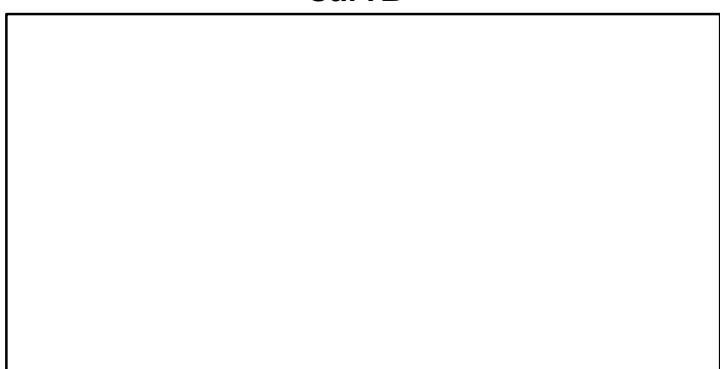
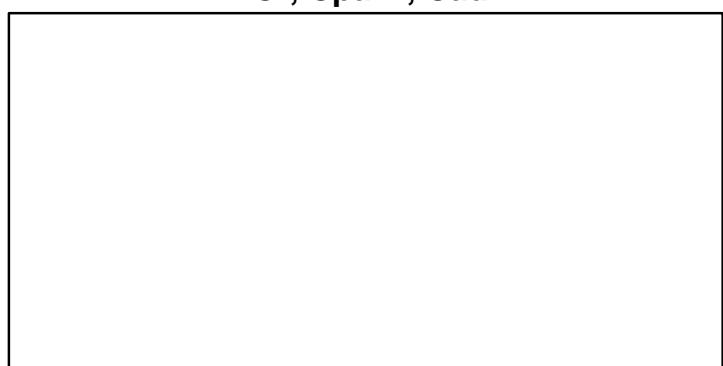
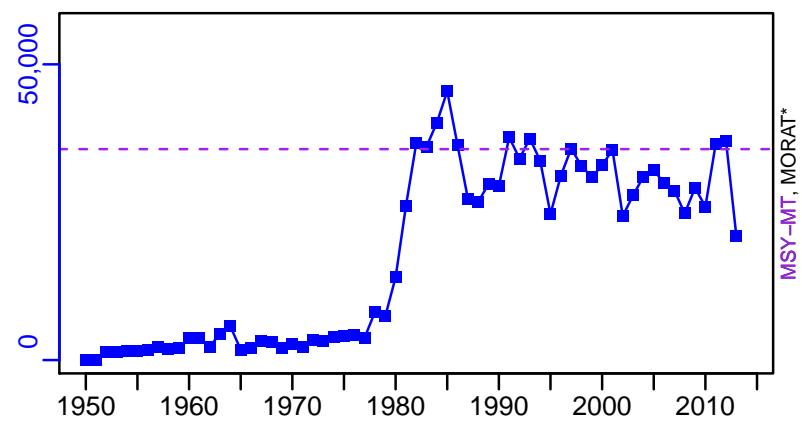


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	··· Lim BRP	* No Data

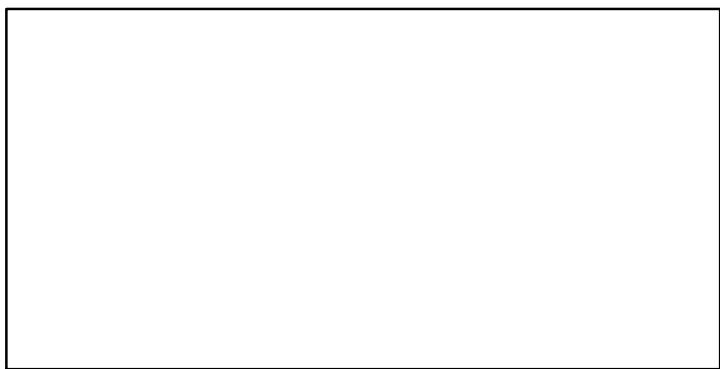
Skipjack tuna Western Atlantic [SKJWATL]

TC-MT, TL*, RecC* (1950–2014–PONS)

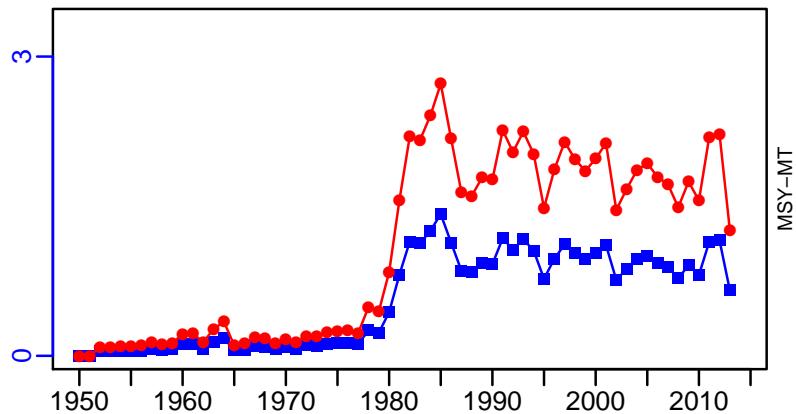
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2014–PONS)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Swordfish Northern Atlantic [SWORDNATL]

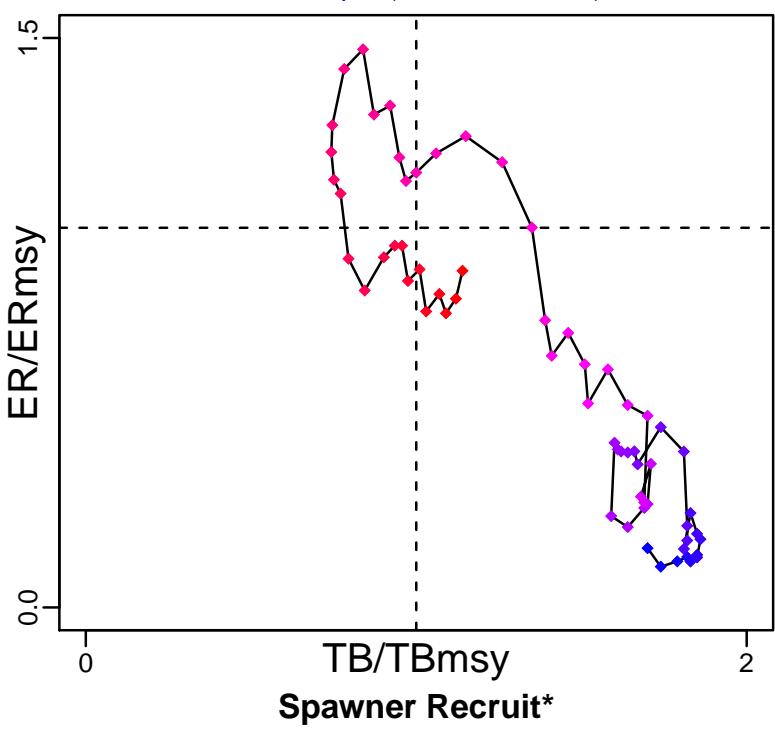
Metadata	
Scientific Name	Xiphias gladius
Current Assess ID	ICCAT-SWORDNATL-1950-2015-PONS
Area	Northern Atlantic
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2011, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	65,060
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.21
ERrmsy	ERrmsy-calc-ratio	2015	0.211
TBmgt	TBmgt-MT	2015	65,060
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2015	0.21
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	13,700
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

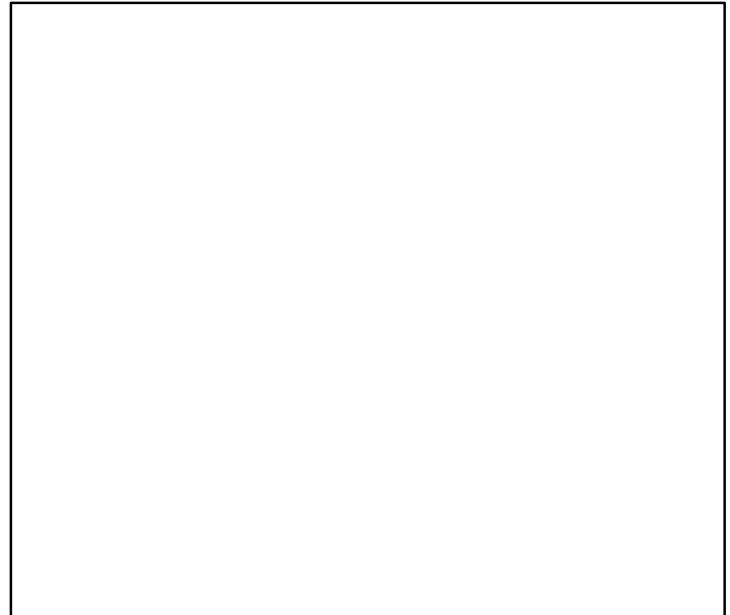
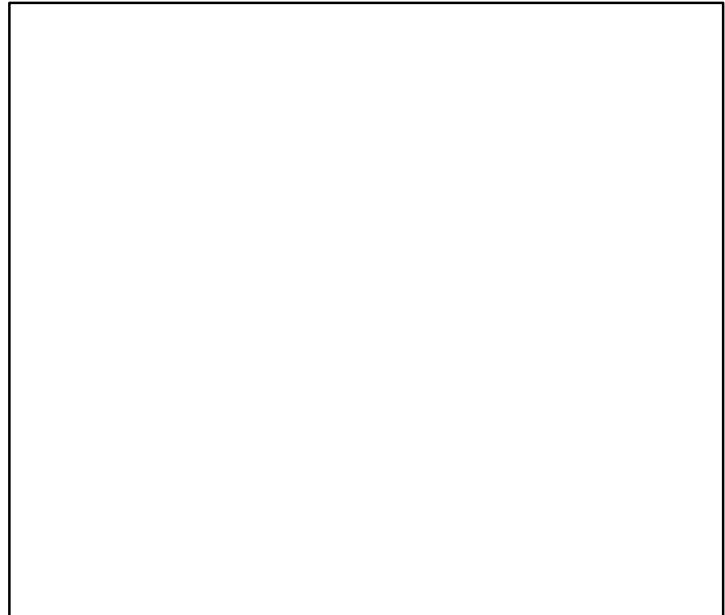
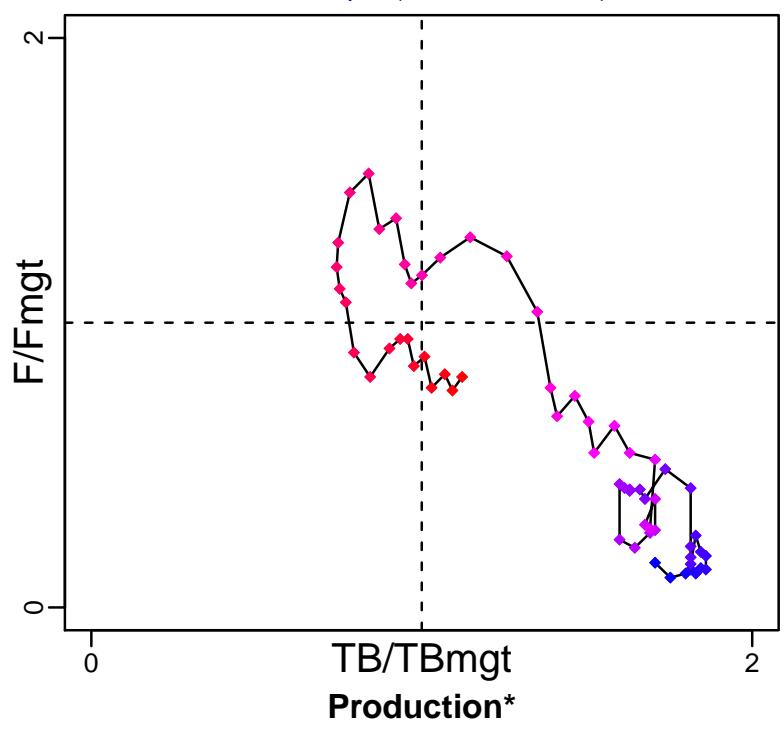
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2015	73,900	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2015	0.17	-	-	
ER	ER-calc-ratio	2015	0.187	-	-	
TC	TC-MT	2015	12,000			
TL	-	-	-			
TB/TBmsy	TBdivTBmsy-dimensionless	2015	1.14			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2015	0.812			
ER/ERrmsy	ER-calc-ratio/ERrmsy-calc-ratio	2015	0.887			
TB/TBmgt	TB-MT/TBmgt-MT	2015	1.136			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.81			
ER/ERmgt	-	-	-			

Swordfish Northern Atlantic [SWORDNATL]

Kobe MSYpref (1950–2015–PONS)



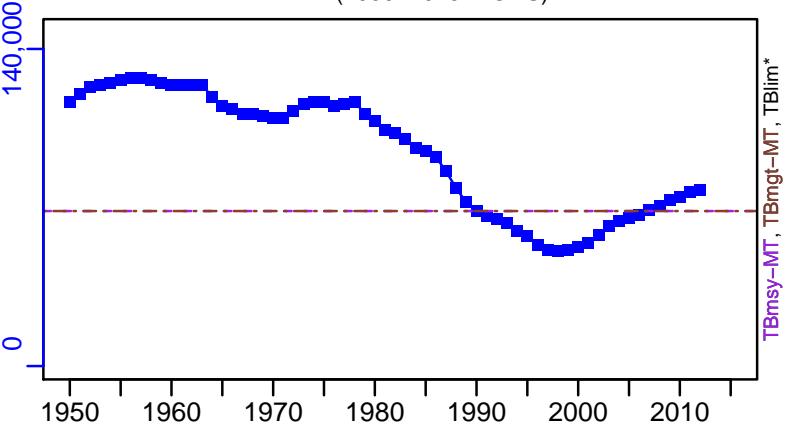
Kobe MGTPref (1950–2015–PONS)



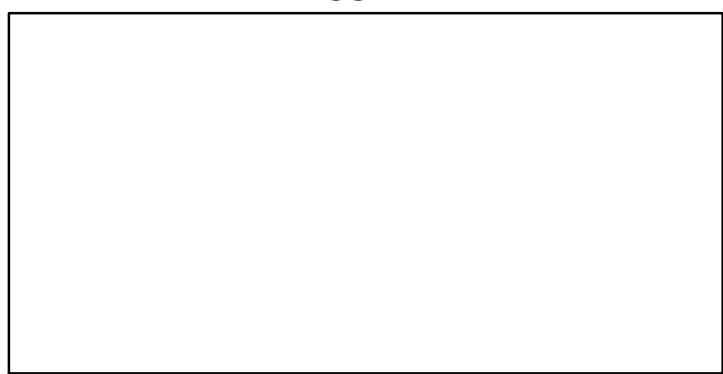
◆ Start Year	◆ End Year	* No Data
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Swordfish Northern Atlantic [SWORDNATL]

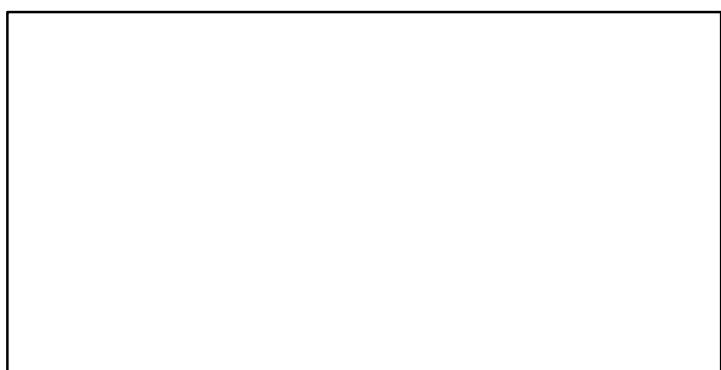
TB-MT (1950–2015-PONS)



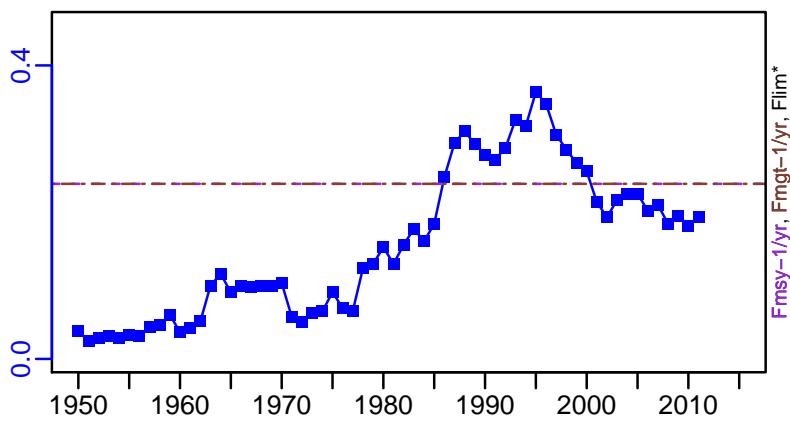
SSB*



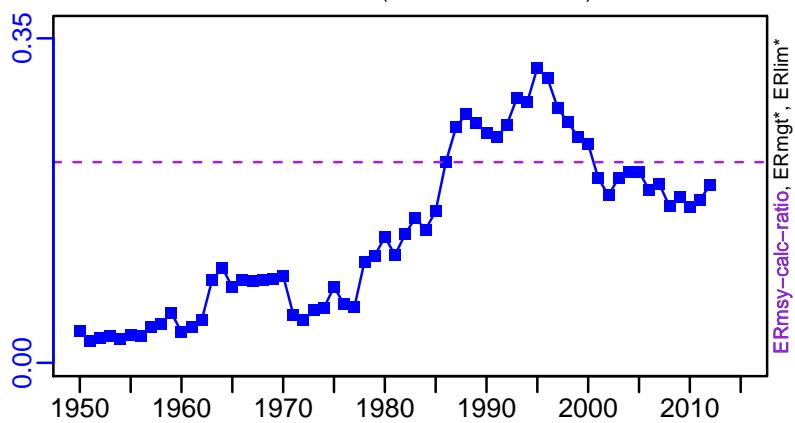
TN *



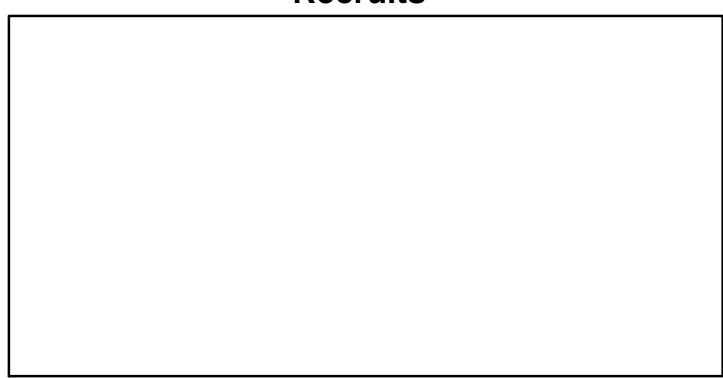
F-1/yr (1950–2015-PONS)



ER-calc-ratio (1950–2015-PONS)



Recruits*

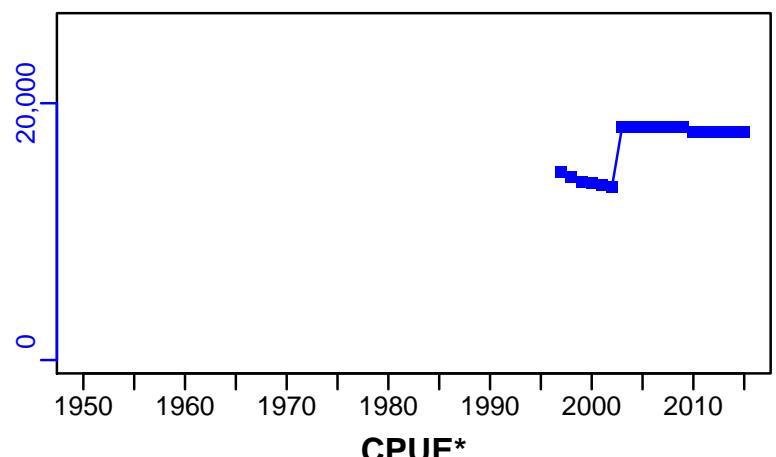
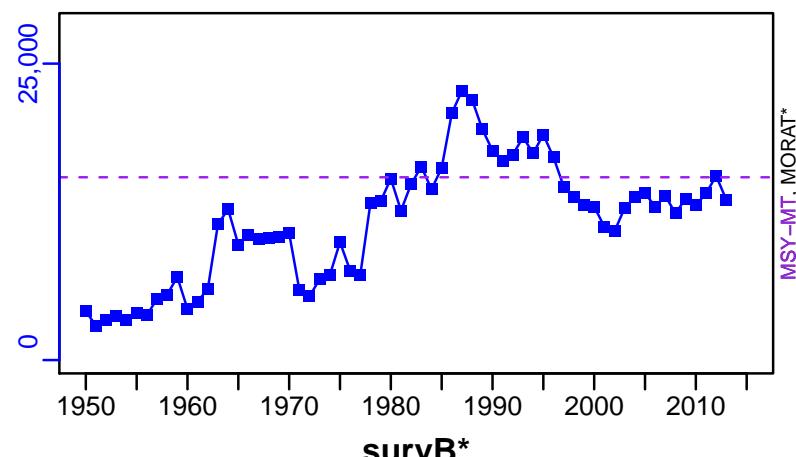


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

Swordfish Northern Atlantic [SWORDNATL]

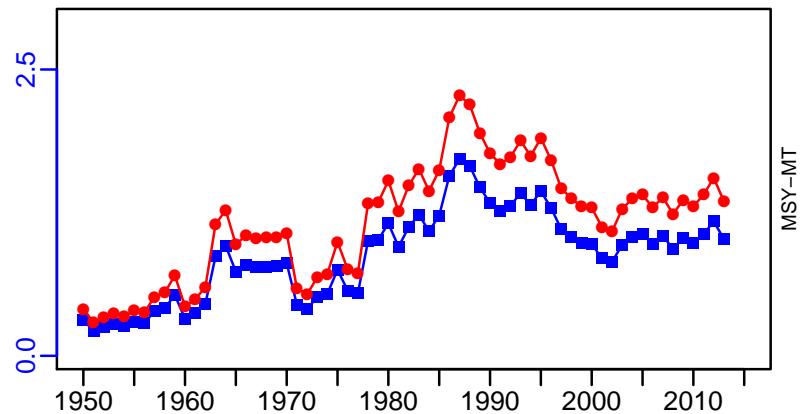
TC-MT, TL*, RecC* (1950–2015–PONS)

TAC-MT, Cpair*, Cadv* (1950–2015–PONS)



EFFORT*

TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2015–PONS)



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Swordfish South Atlantic [SWORDSATL]

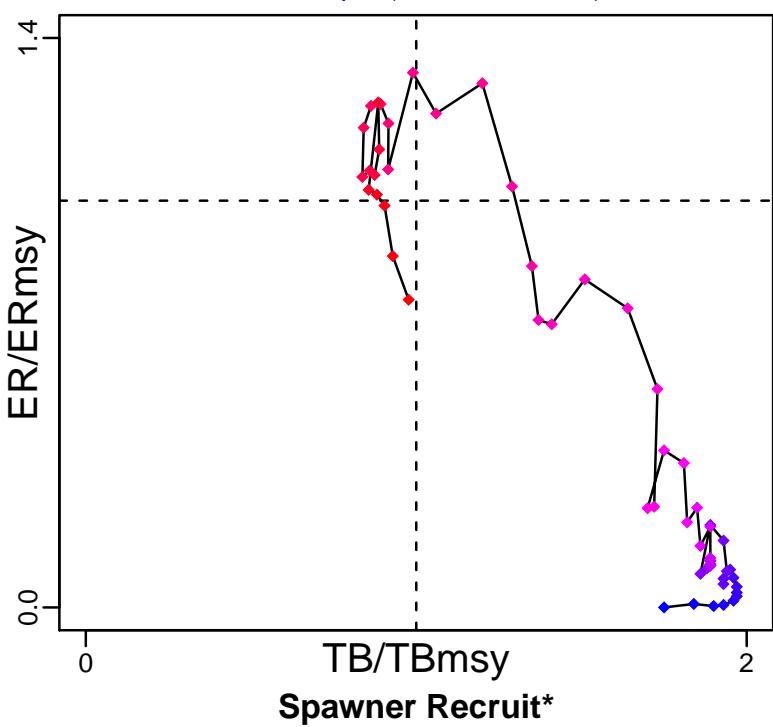
Metadata	
Scientific Name	Xiphias gladius
Current Assess ID	ICCAT-SWORDSATL-1950-2015-PONS
Area	South Atlantic
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	58,360
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.24
ERrmsy	ERrmsy-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	2015	14,210
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

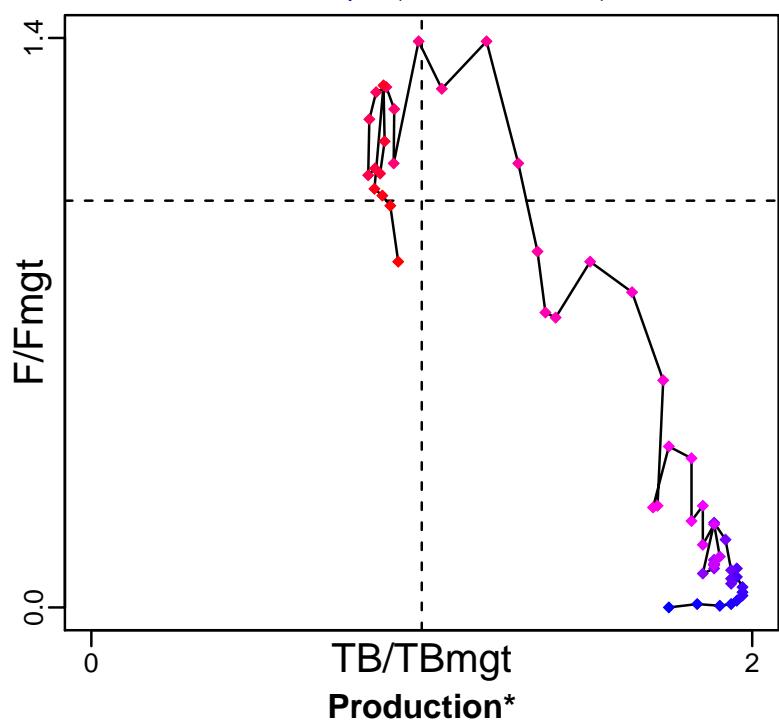
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2015	57,000	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2015	0.204	-	-	
ER	ER-calc-ratio	2015	0.184	-	-	
TC	TC-MT	2015	7820			
TL	-	-	-			
TB/TBmsy	TBdivTBmsy-dimensionless	2015	0.977			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2015	0.839			
ER/ERrmsy	ER-calc-ratio/ERrmsy-calc-ratio	2015	0.757			
TB/TBmgt	TB-MT/TBmgt-MT	2015	0.977			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.85			
ER/ERmgt	-	-	-			

Swordfish South Atlantic [SWORDSATL]

Kobe MSYpref (1950–2015–PONS)



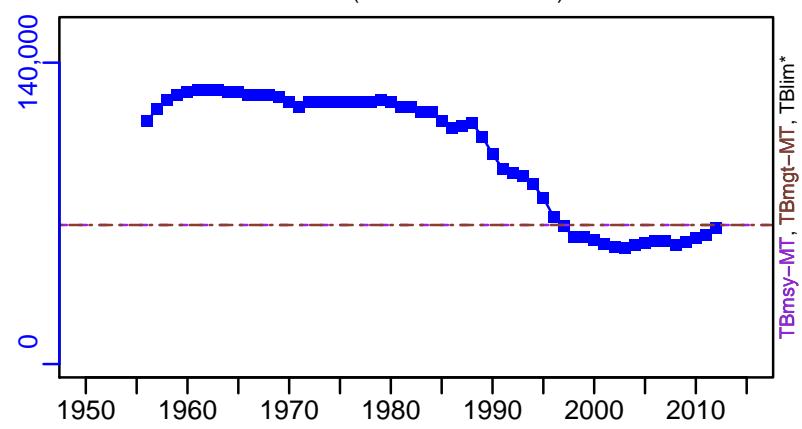
Kobe MGTPref (1950–2015–PONS)



◆ Start Year ◆ End Year * No Data

Swordfish South Atlantic [SWORDSATL]

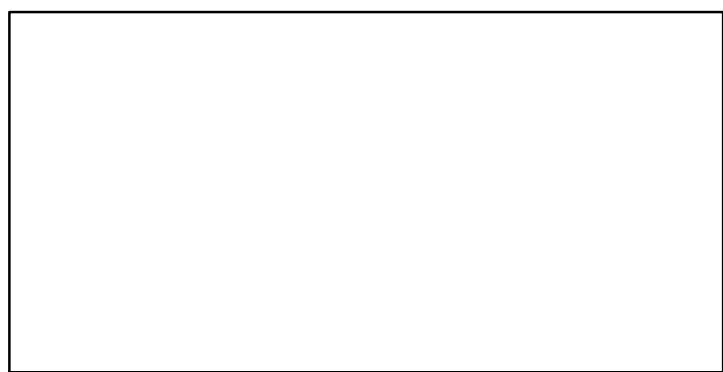
TB-MT (1950–2015-PONS)



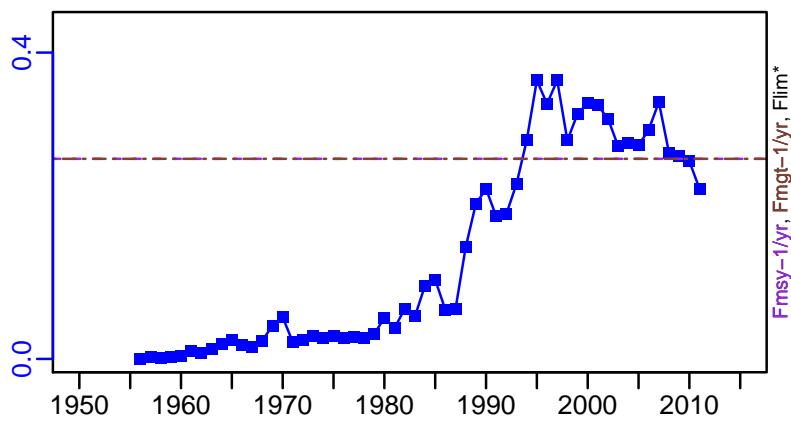
SSB*



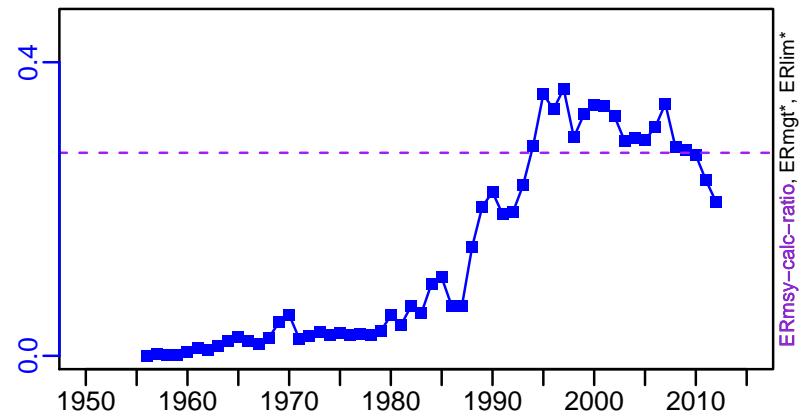
TN *



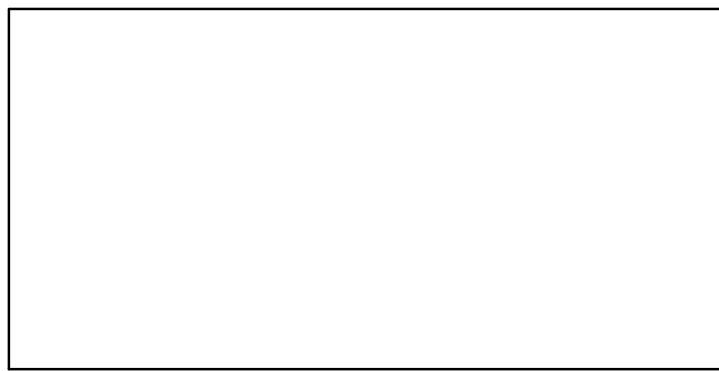
F-1/yr (1950–2015-PONS)



ER-calc-ratio (1950–2015-PONS)



Recruits*

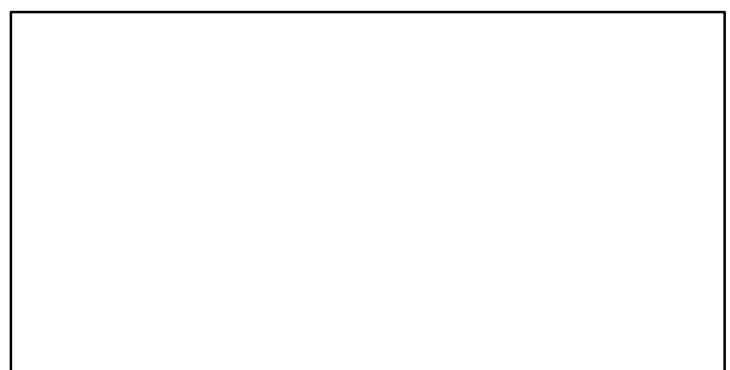
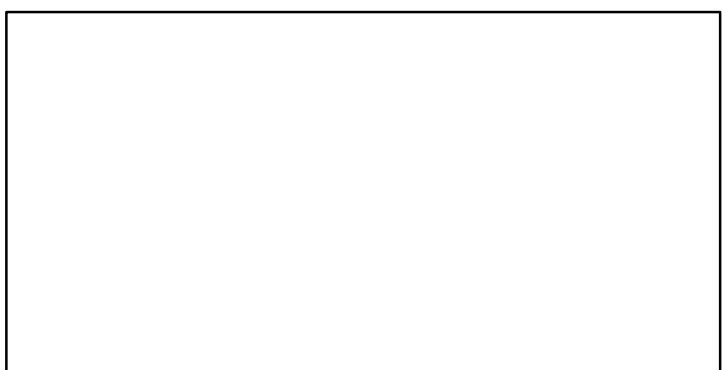
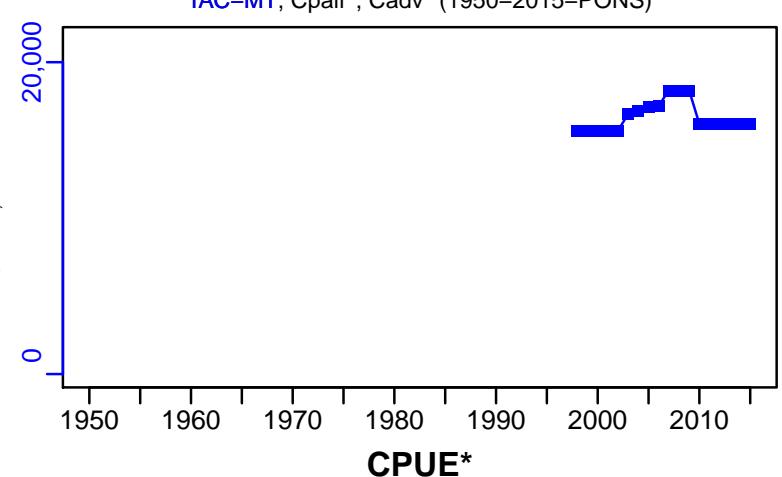
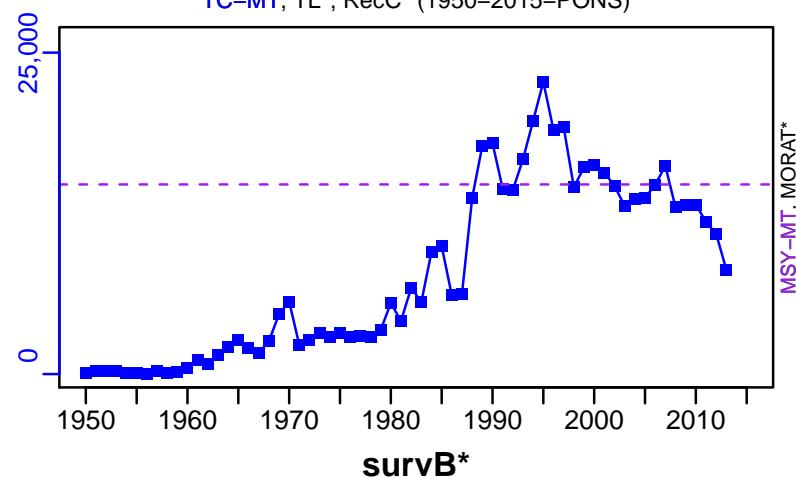


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	— Lim BRP	* No Data

Swordfish South Atlantic [SWORDSATL]

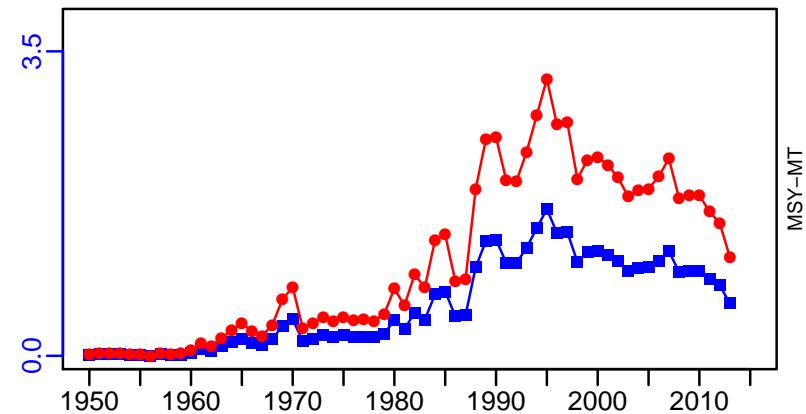
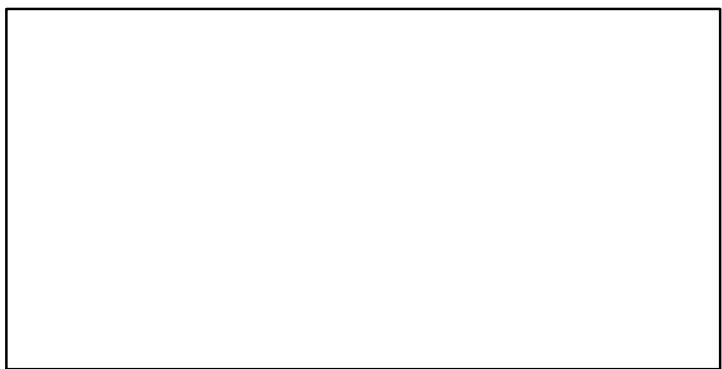
TC-MT, TL*, RecC* (1950–2015–PONS)

TAC-MT, Cpair*, Cadv* (1950–2015–PONS)



EFFORT*

TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2015–PONS)



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

White marlin Atlantic Ocean [WMARLINATL]

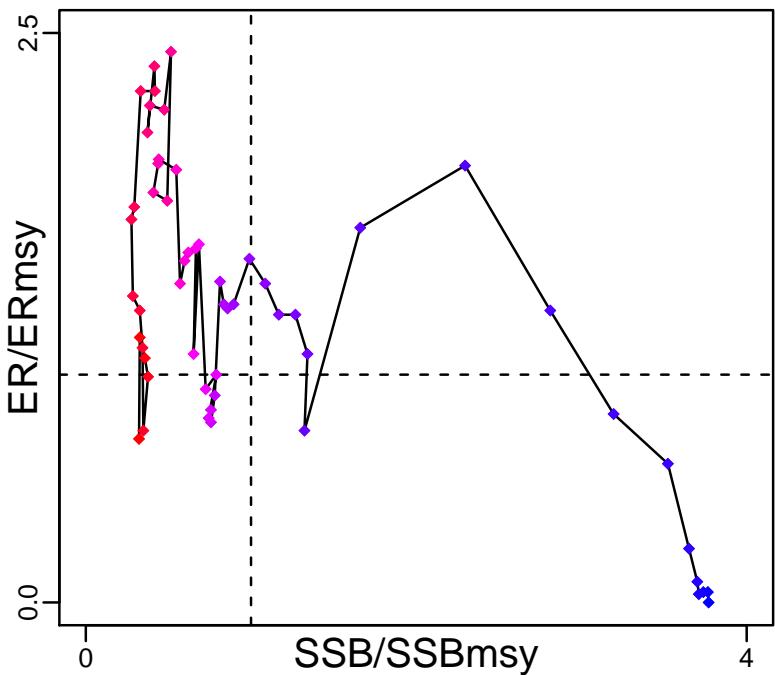
Metadata	
Scientific Name	Tetrapturus albidus
Current Assess ID	ICCAT-WMARLINATL-1956-2011-CHING
Area	Atlantic Ocean
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-extr-MT	2011	19,122
SSBmsy	SSBmsy-MT	2011	2191
Fmsy	Fmsy-1/yr	2011	0.094
ERmsy	ERmsy-ratio	2011	0.11
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2011	36,234
SSB0	-	-	-
MSY	MSY-MT	2011	1239
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

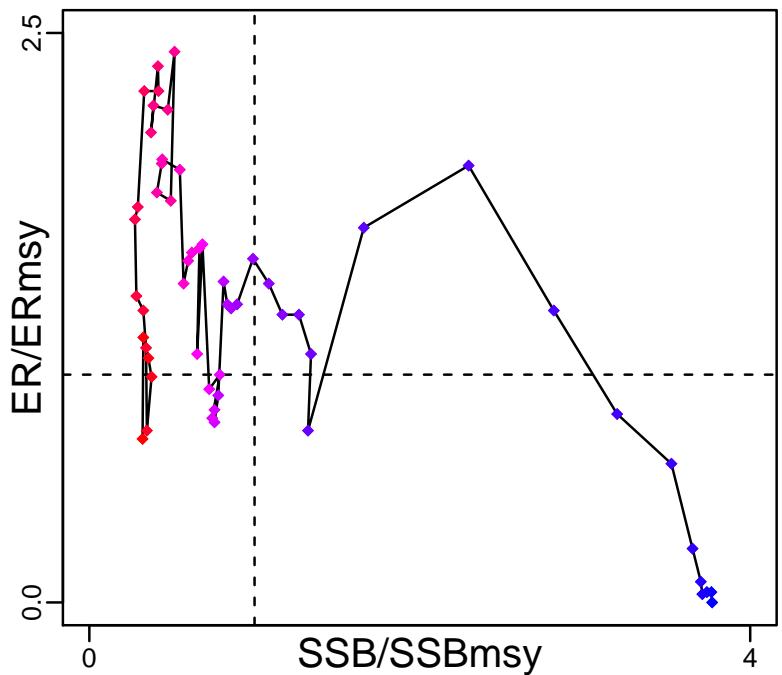
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2011	8310	-	-	
SSB	SSB-MT	2011	706	-	-	
TN	-	-	-	-	-	
R	R-E00	2011	85,200	-	-	
F	-	-	-	-	-	
ER	ER-ratio	2011	0.079	-	-	
TC	TC-MT	2011	434			
TL	-	-	-			
TB/TBmsy	TBdivTBmsy-dimensionless	2011	0.4			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.322			
F/Fmsy	FdivFmsy-dimensionless	2011	0.84			
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.718			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

White marlin Atlantic Ocean [WMARLINATL]

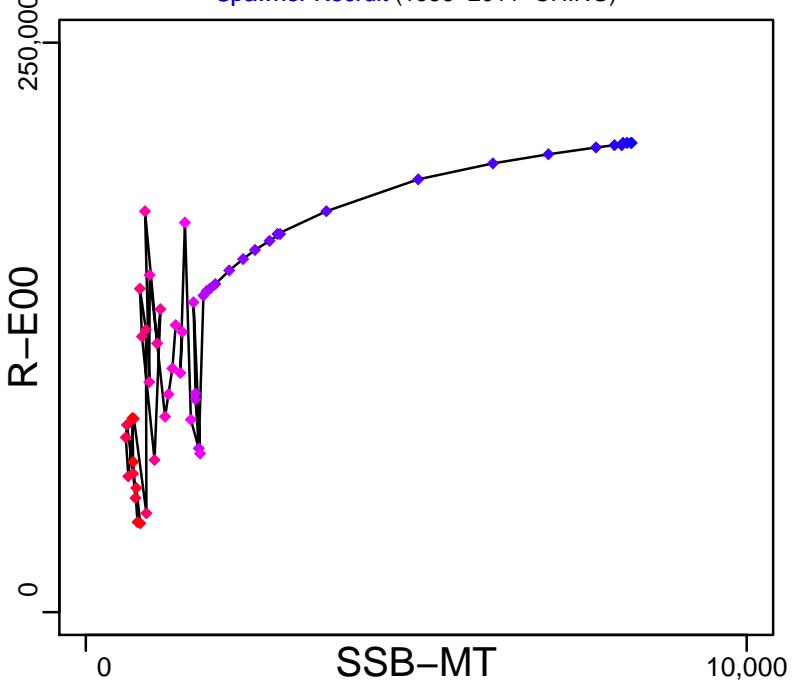
Kobe MSYpref (1956–2011–CHING)



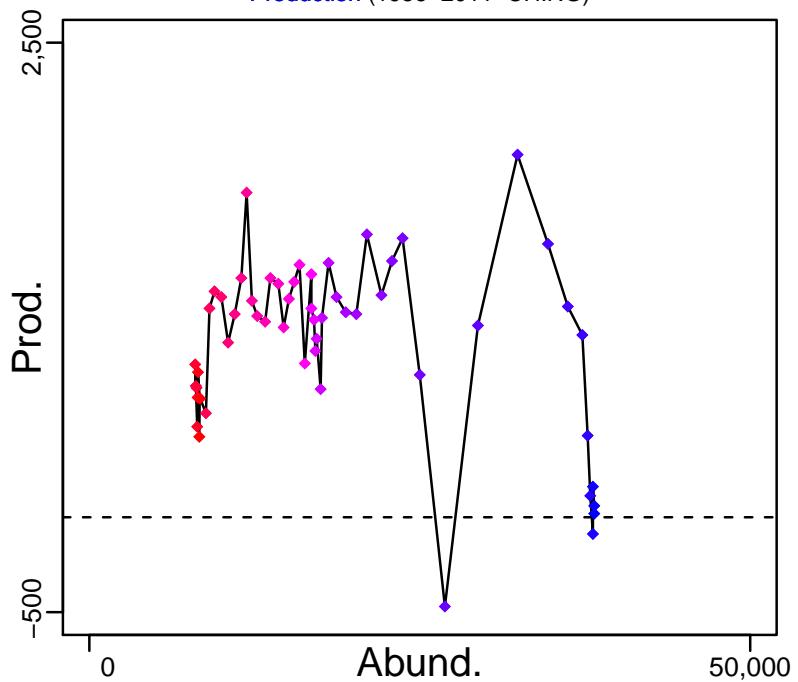
Kobe MGTPref (1956–2011–CHING)



Spawner Recruit (1956–2011–CHING)



Production (1956–2011–CHING)

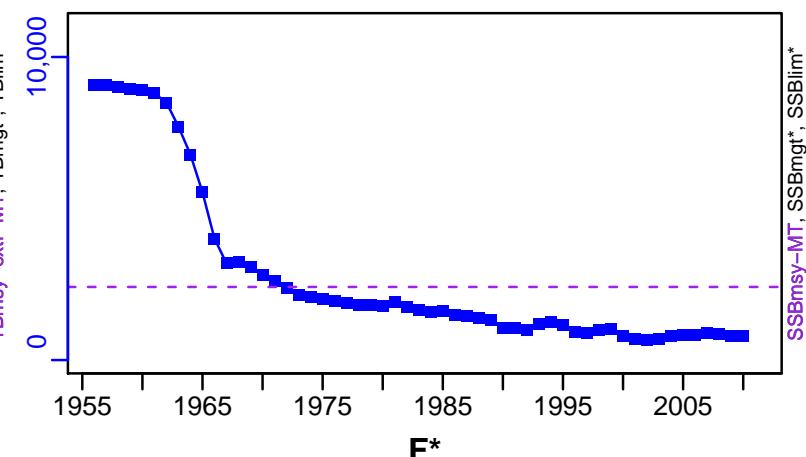
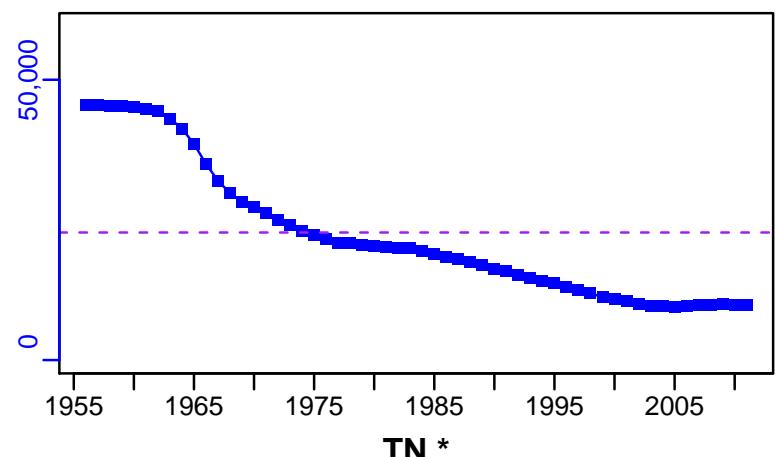


◆ Start Year ◆ End Year * No Data

White marlin Atlantic Ocean [WMARLINATL]

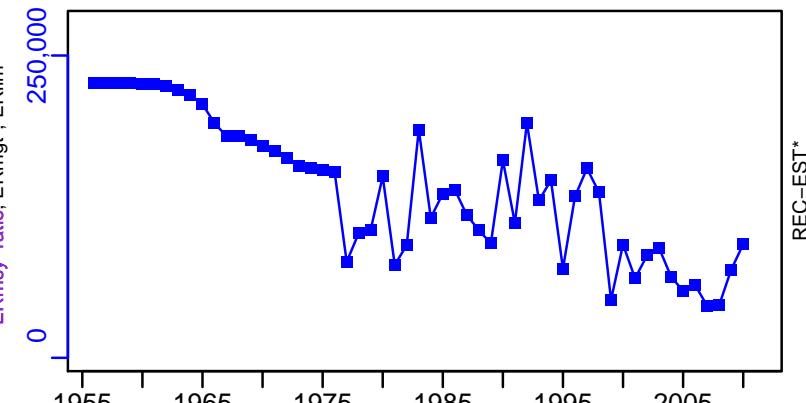
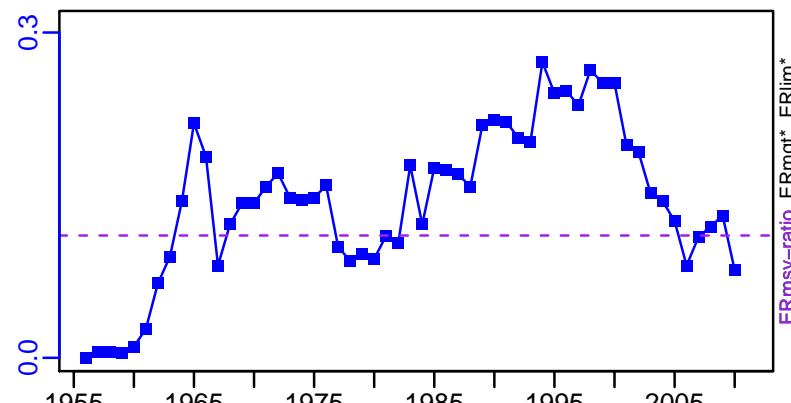
TB-MT (1956–2011–CHING)

SSB-MT (1956–2011–CHING)



ER-ratio (1956–2011–CHING)

R-E00 (1956–2011–CHING)

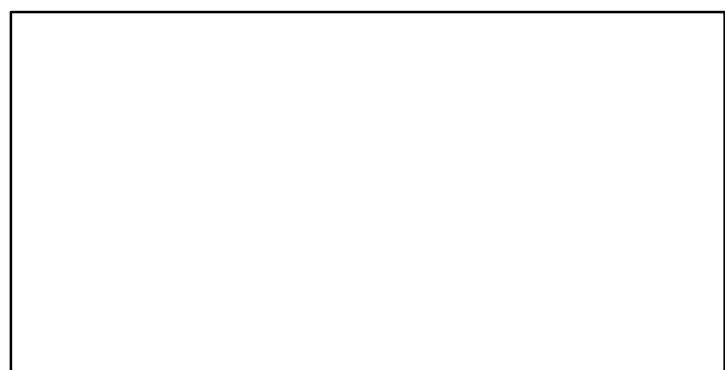
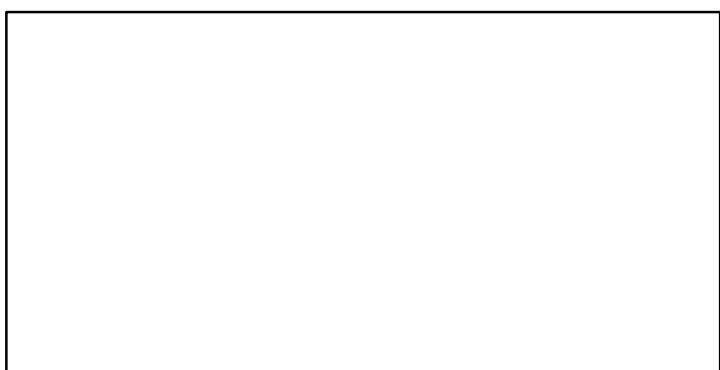
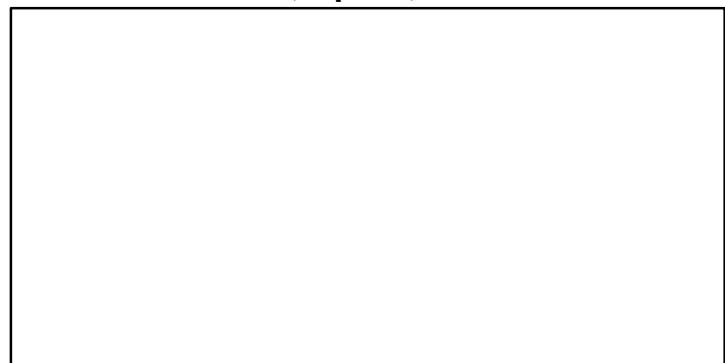
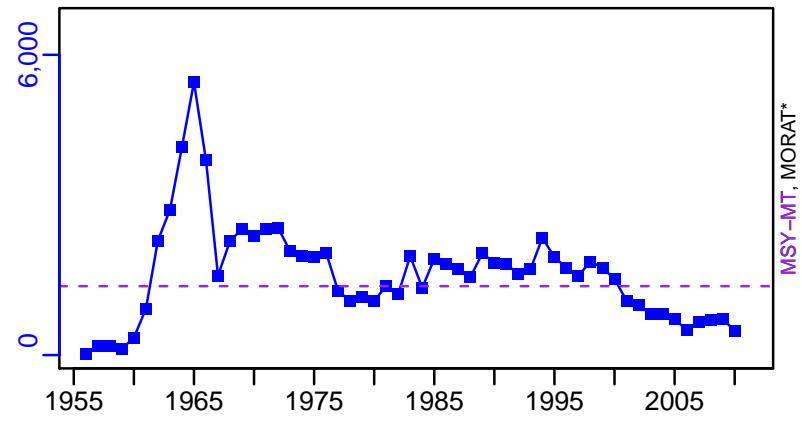


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	- - Lim BRP	* No Data

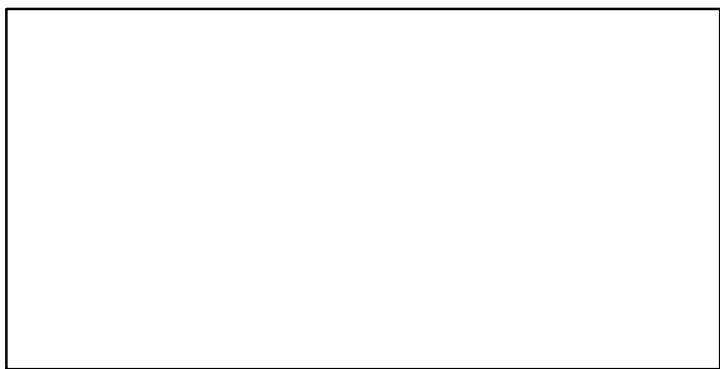
White marlin Atlantic Ocean [WMARLINATL]

TC-MT, TL*, RecC* (1956–2011-CHING)

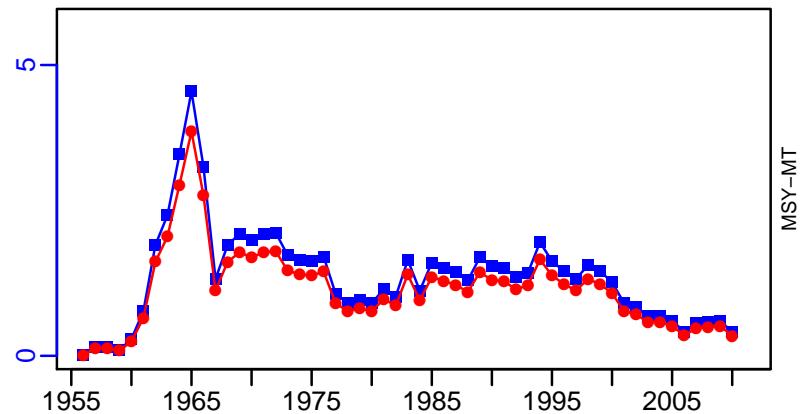
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1956–2011-CHING)



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|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

Yellowfin tuna Atlantic Ocean [YFINATL]

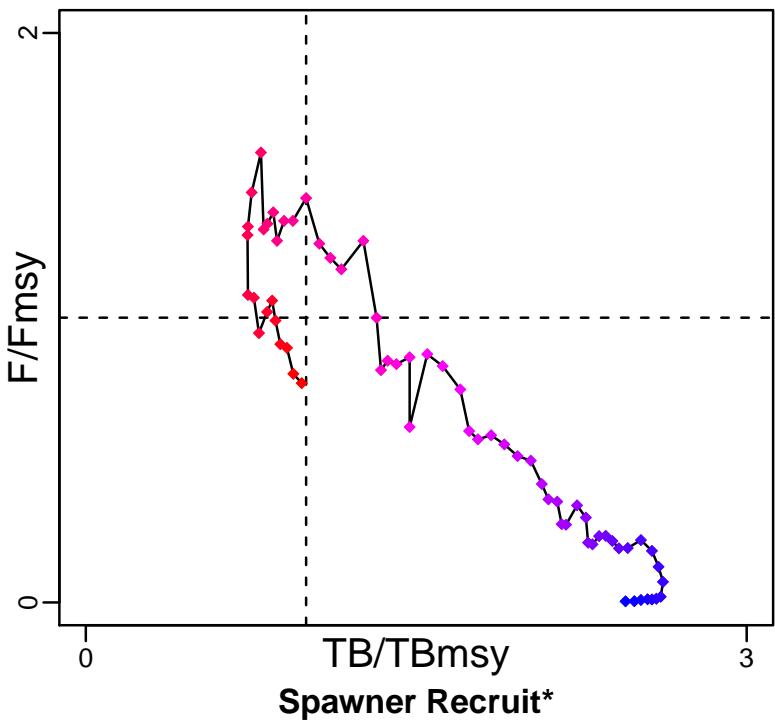
Metadata	
Scientific Name	Thunnus albacares
Current Assess ID	ICCAT-YFINATL-1950-2016-PONS
Area	Atlantic Ocean
Management Authority	International Commission for the Conservation of Atlantic Tunas
Assessor	International Commission for the Conservation of Atlantic Tunas
Asmts in RAM	2011, 2016

Reference Points			
Type	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	2011	144,600
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

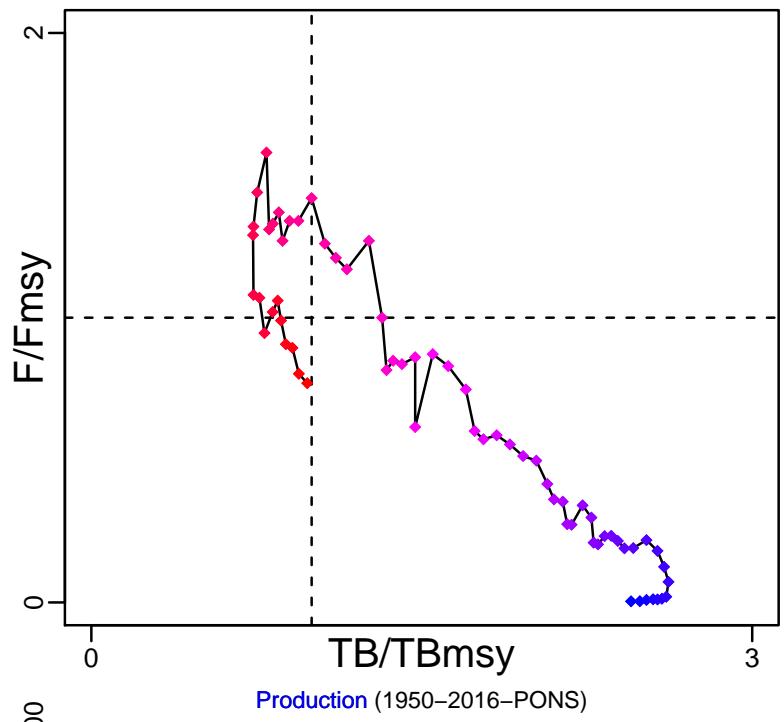
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2016	725,000	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2016	0.131	-	-	
ER	ER-calc-ratio	2016	0.134	-	-	
TC	TC-MT	2011	108,000			
TL	TL-MT	2016	128,000			
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.98			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2016	0.77			
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2011	1.074			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Yellowfin tuna Atlantic Ocean [YFINATL]

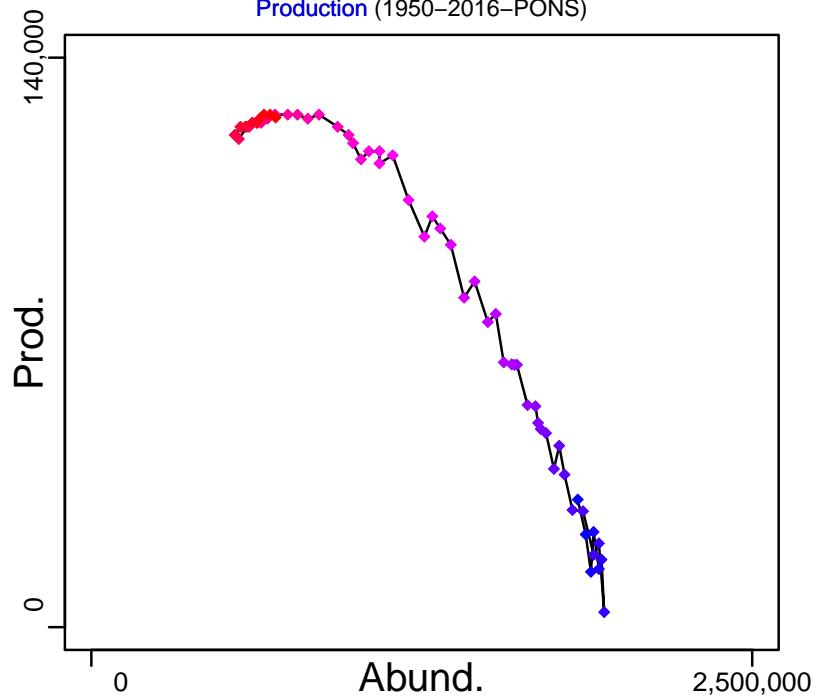
Kobe MSYpref (1950–2016–PONS)



Kobe MGTPref (1950–2016–PONS)



Production (1950–2016–PONS)

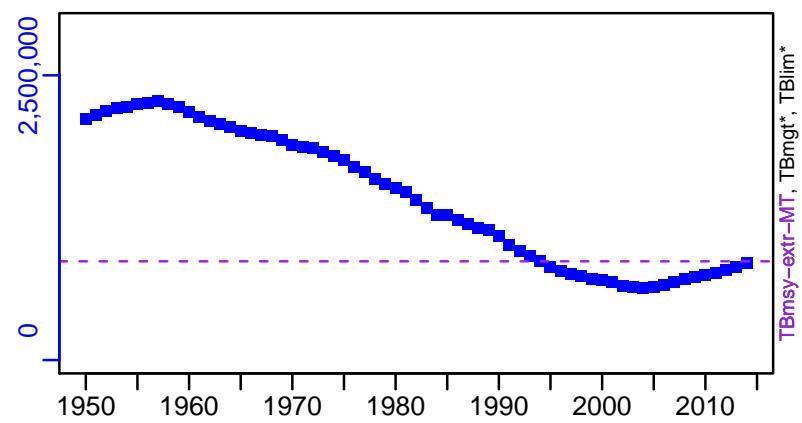


◆ Start Year ◆ End Year * No Data

Yellowfin tuna Atlantic Ocean [YFINATL]

TB-MT (1950–2016-PONS)

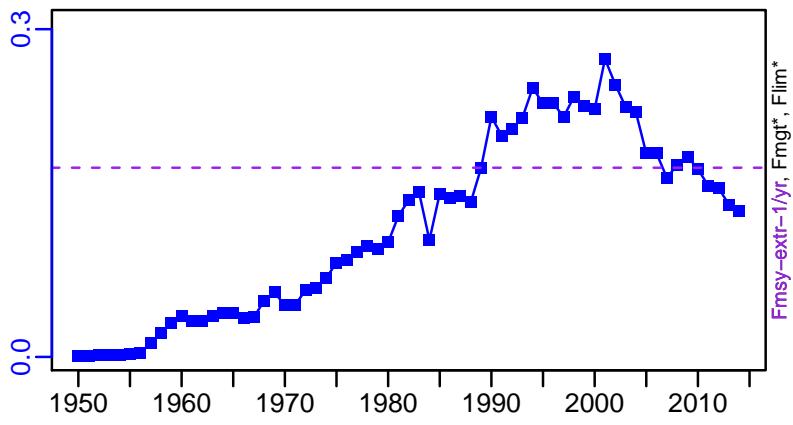
SSB*



TN *

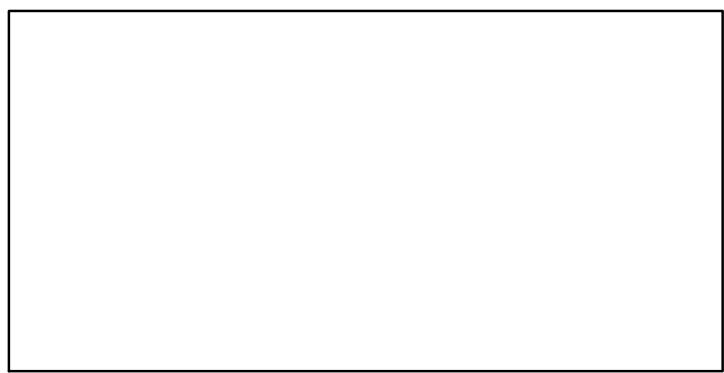
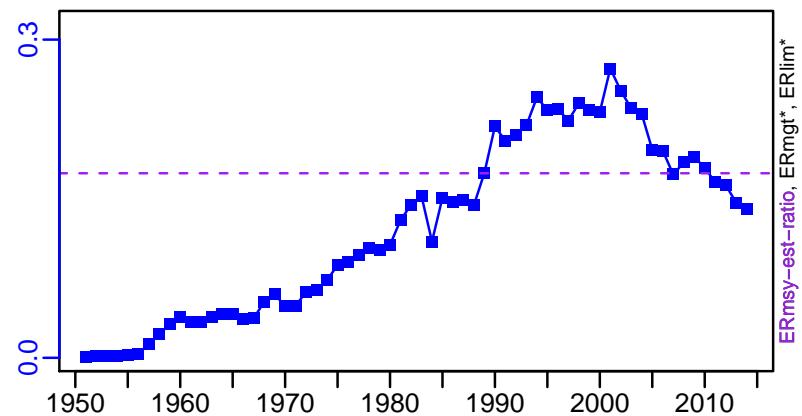


F-1/yr (1950–2016-PONS)



ER-calc-ratio (1950–2016-PONS)

Recruits*

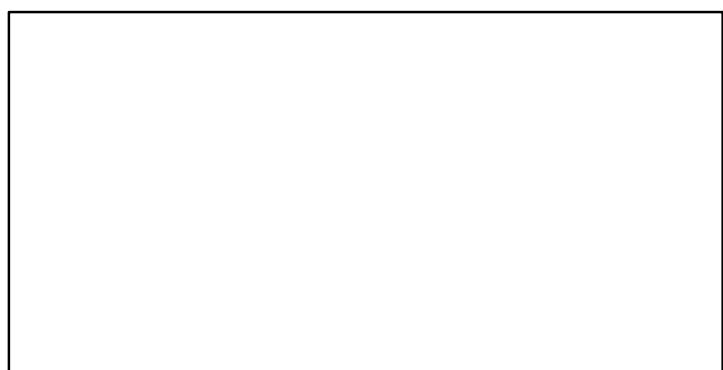
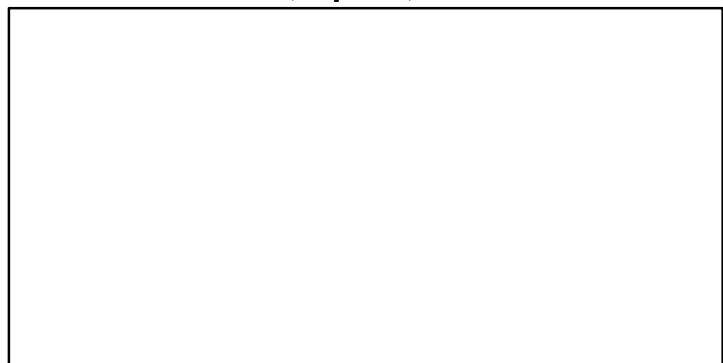
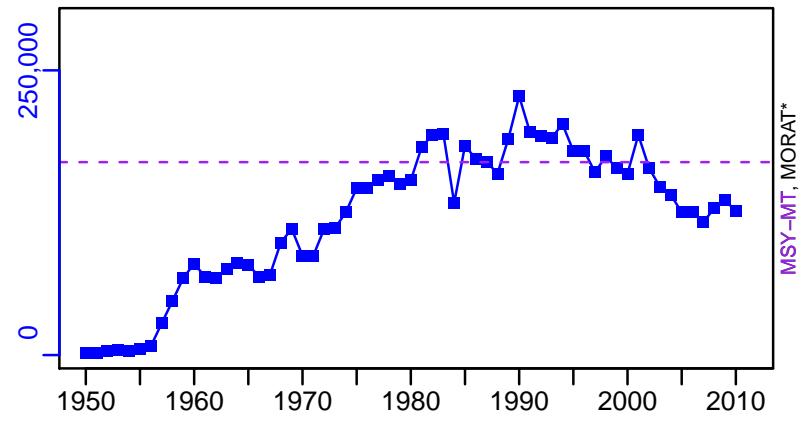


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|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - - MSY-based BRP | --- Lim BRP | * No Data |

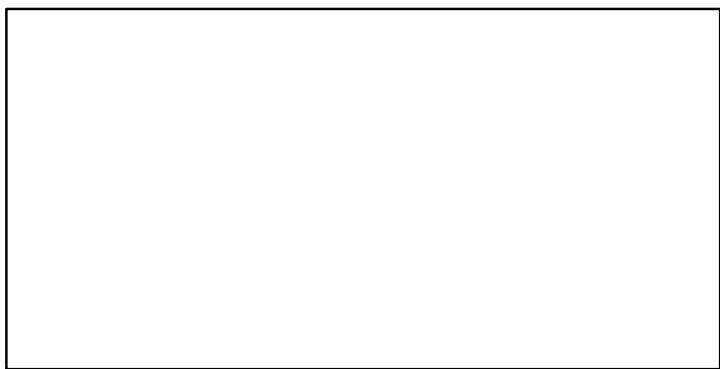
Yellowfin tuna Atlantic Ocean [YFINATL]

TC-MT, TL*, RecC* (1950–2011-CHING)

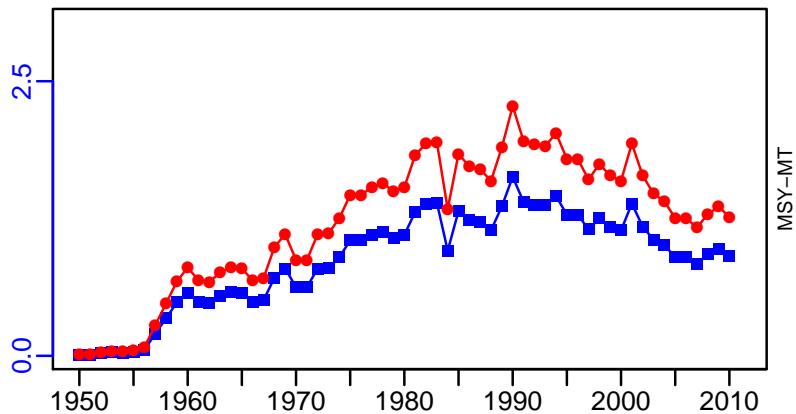
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2011-CHING)



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |