

# Atlantic Ocean Stocks

## v4.491 (Dec-21-2019)

Not present Present Preferred

Stock	B/Bmsy	Time Series Types			
		U/Umsy	B/Bmgt	U/Umgt	
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]

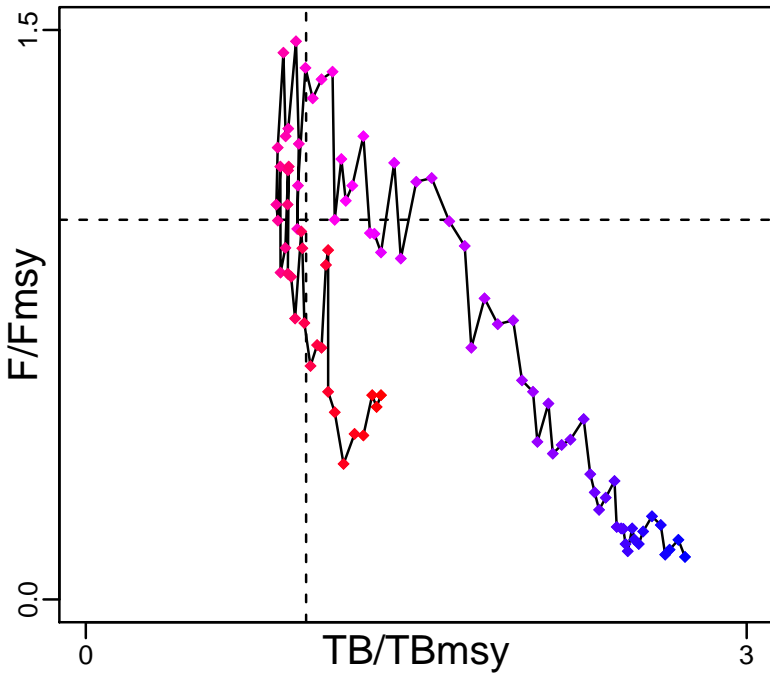
Metadata	
<b>Scientific Name</b>	Thunnus alalunga
<b>Current Assess ID</b>	ICCAT-ALBANATL-1930-2016-PONS
<b>Area</b>	Northern Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic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

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

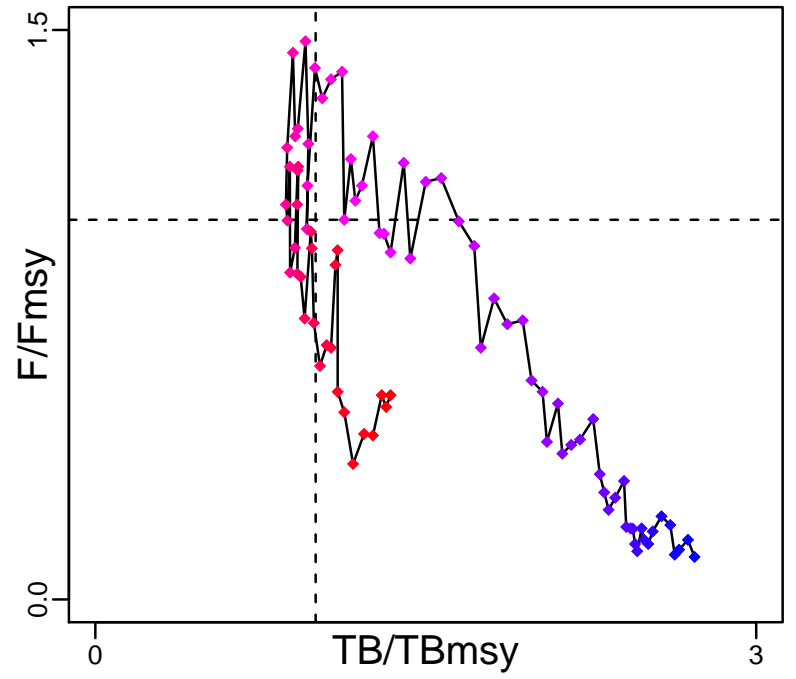
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	569,000	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2016	0.045	-	-
<b>ER</b>	ER-calc-ratio	2016	0.045	-	-
<b>TC</b>	TC-MT	2015	24,700		
<b>TL</b>	TL-MT	2016	30,100		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless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

# Albacore tuna Northern Atlantic [ALBANATL]

Kobe MSYpref (1930–2016–PONS)



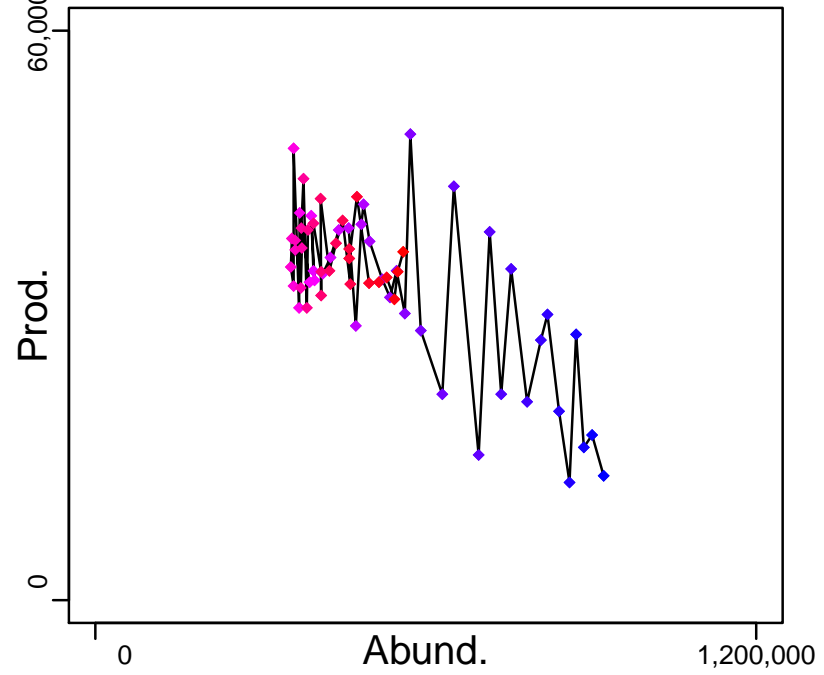
Kobe MGTpref (1930–2016–PONS)



Spawner Recruit\*



Production (1930–2016–PONS)

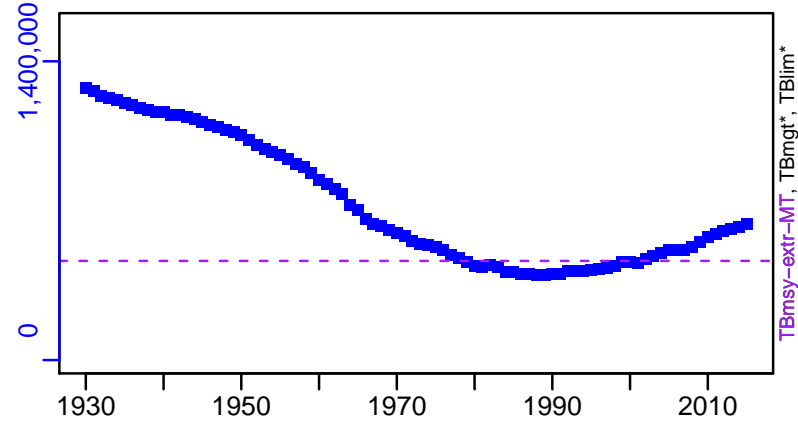


◆ Start Year ◆ End Year \* No Data

# Albacore tuna Northern Atlantic [ALBANATL]

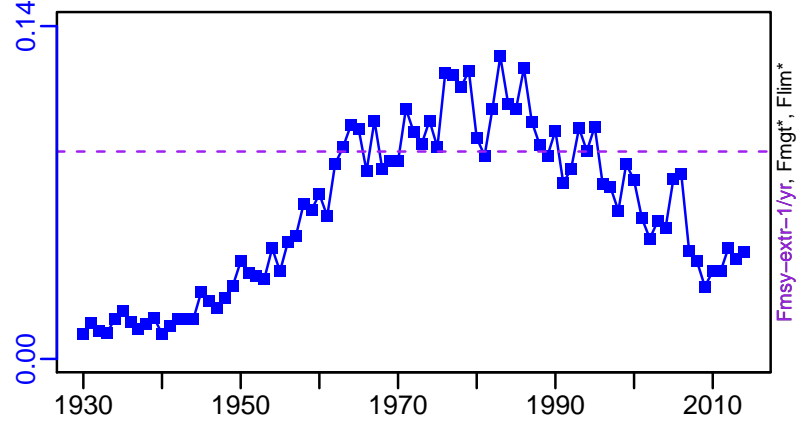
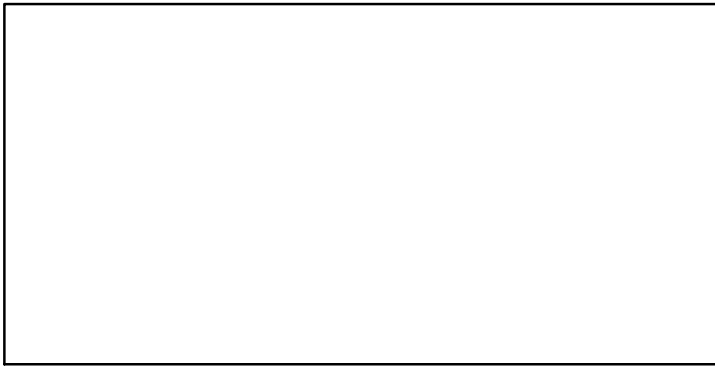
TB-MT (1930–2016–PONS)

SSB\*



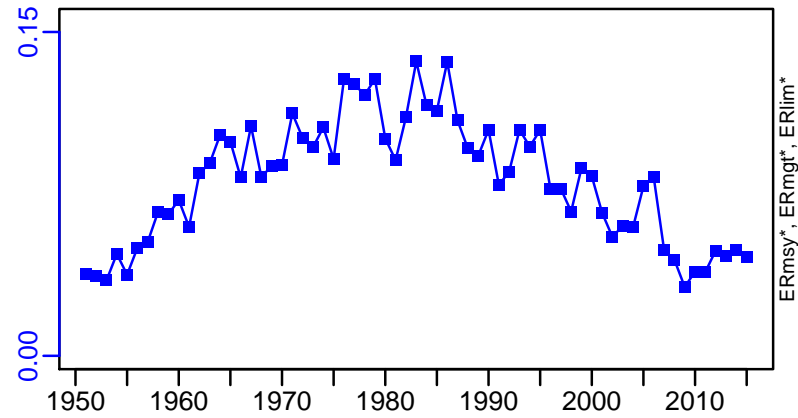
TN \*

F-1/yr (1930–2016–PONS)



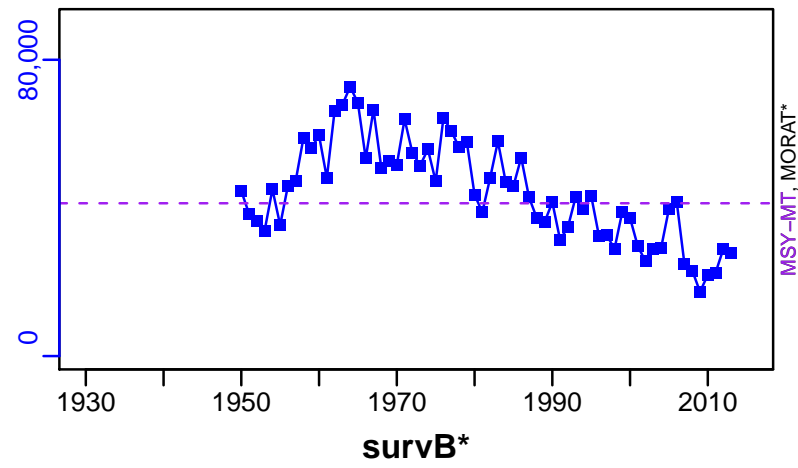
ER-calc-ratio (1930–2016–PONS)

Recruits\*

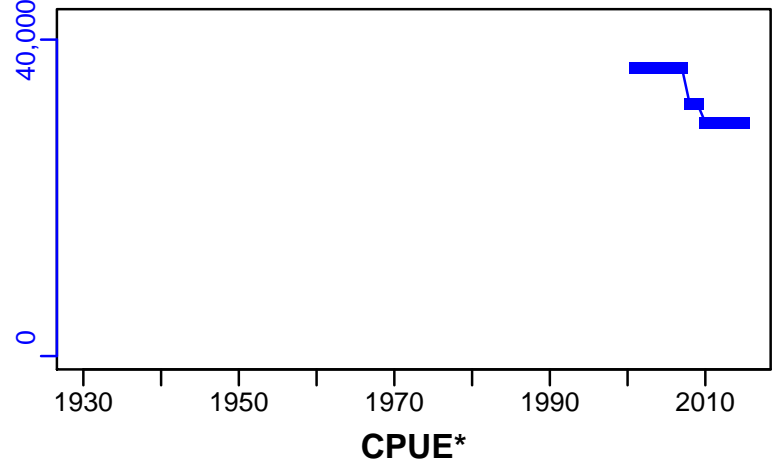


# Albacore tuna Northern Atlantic [ALBANATL]

TC-MT, TL\*, RecC\* (1930-2015-PONS)



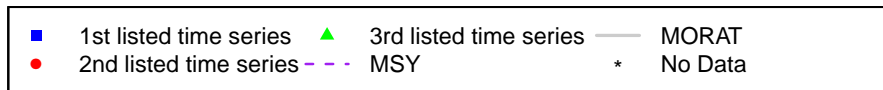
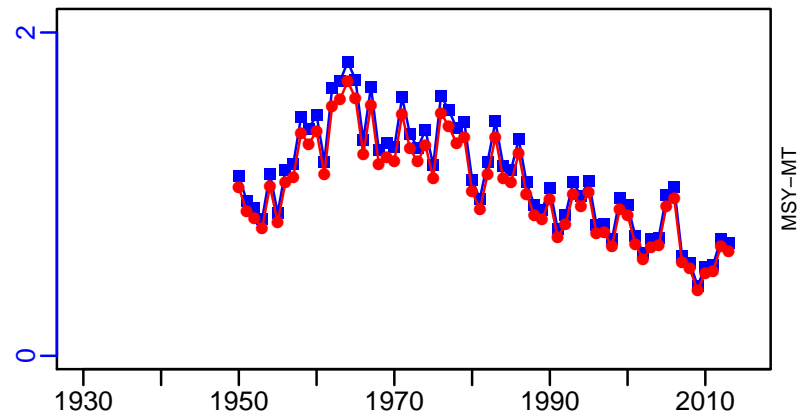
TAC-MT, Cpair\*, Cadv\* (1930-2015-PONS)



**EFFORT\***



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



## Albacore tuna South Atlantic [ALBASATL]

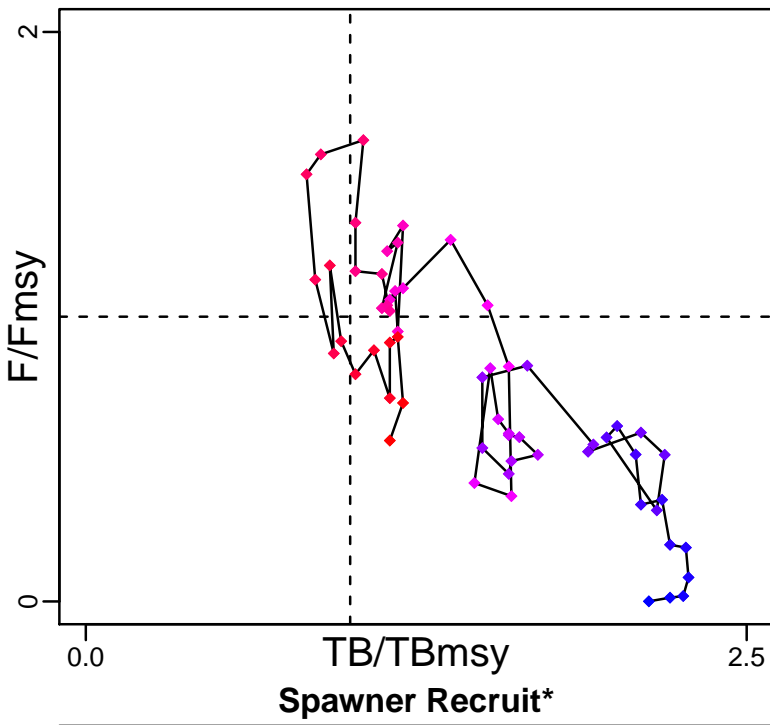
Metadata	
<b>Scientific Name</b>	Thunnus alalunga
<b>Current Assess ID</b>	ICCAT-ALBASATL-1951-2016-PONS
<b>Area</b>	South Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic Tunas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

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

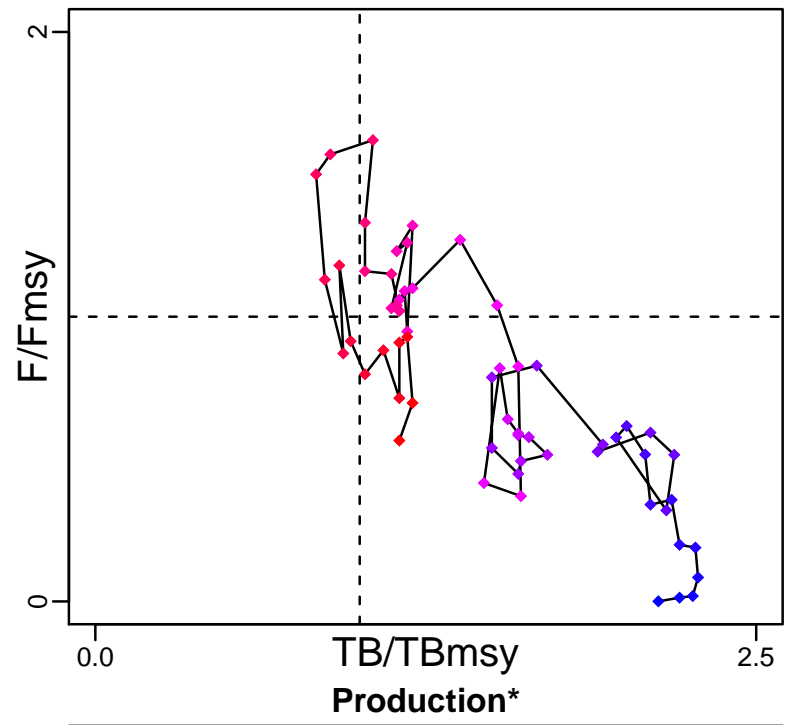
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	149,000	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2015	0.192	-	-
<b>ER</b>	ER-calc-ratio	2015	0.168	-	-
<b>TC</b>	TC-MT	2015	19,200		
<b>TL</b>	TL-MT	2016	13,700		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2016	1.15		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2016	0.565		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2015	1.233		
<b>TB/TBmgt</b>	TB-MT/TBmgt-MT	2015	0.809		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	1.129		
<b>ER/ERmgt</b>	-	-	-		

# Albacore tuna South Atlantic [ALBASATL]

Kobe MSYpref (1951–2016–PONS)



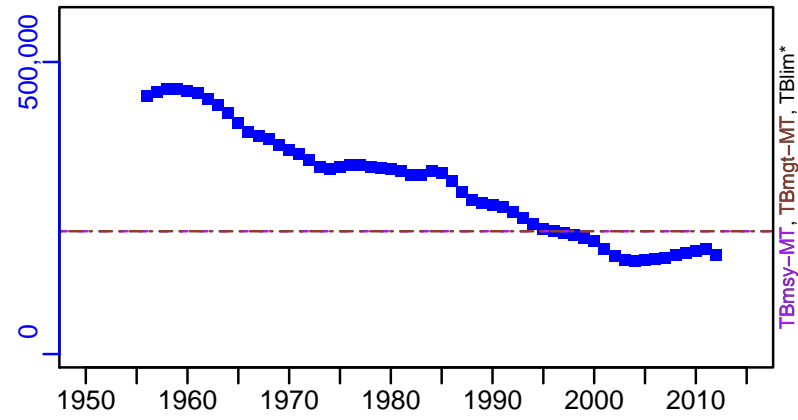
Kobe MGTpref (1951–2016–PONS)



◆ Start Year ◆ End Year \* No Data

# Albacore tuna South Atlantic [ALBASATL]

TB-MT (1950–2015–PONS)



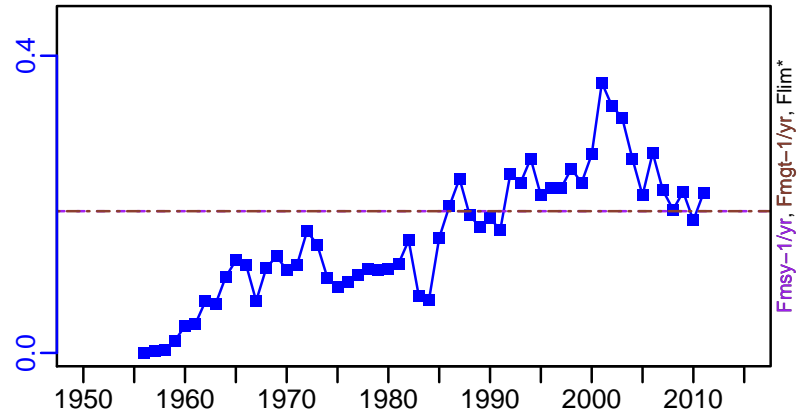
SSB\*



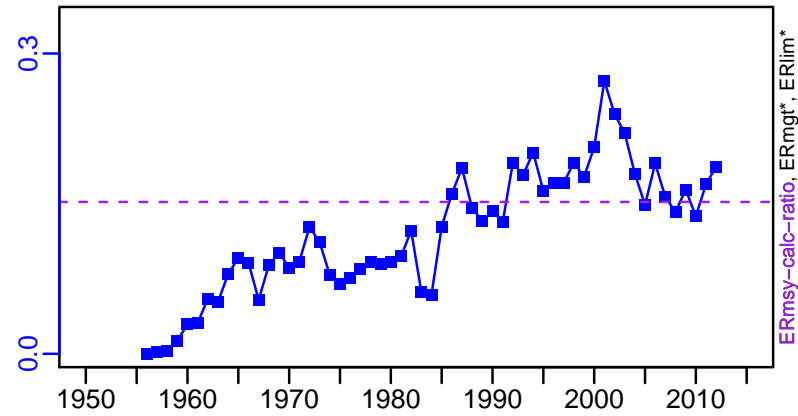
TN \*



F-1/yr (1950–2015–PONS)



ER-calc-ratio (1950–2015–PONS)



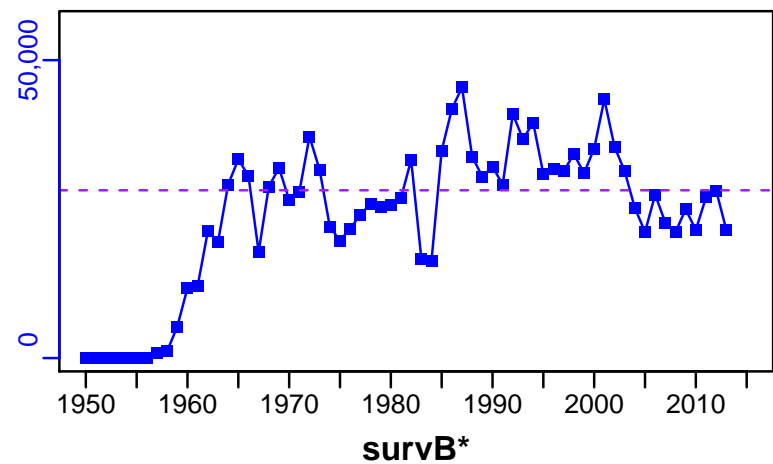
Recruits\*



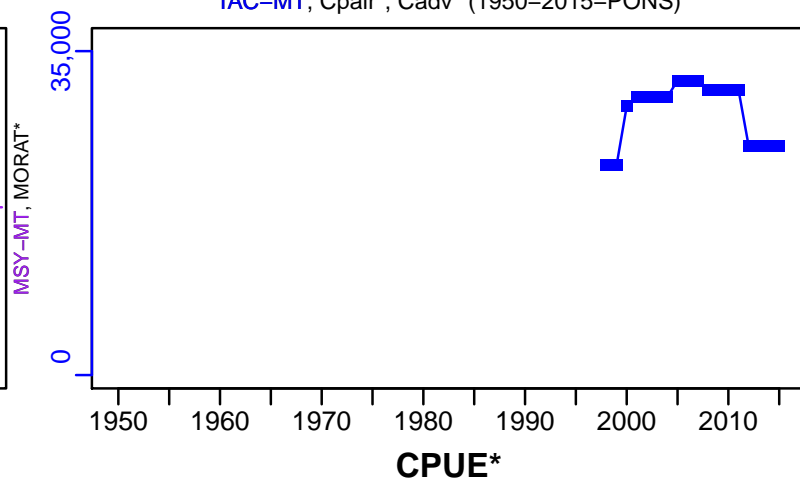


# Albacore tuna South Atlantic [ALBASATL]

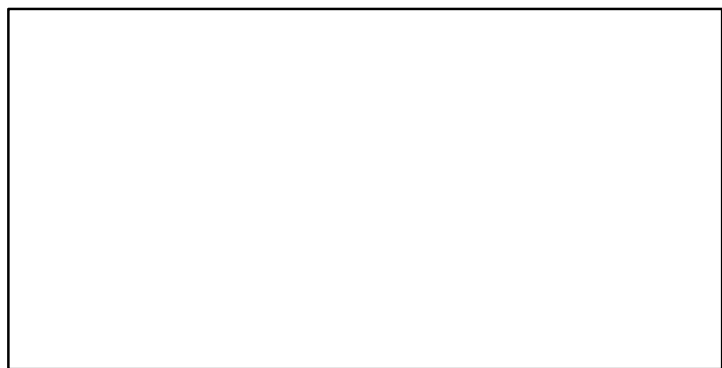
TC-MT, TL\*, RecC\* (1950-2015-PONS)



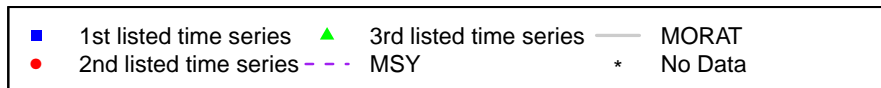
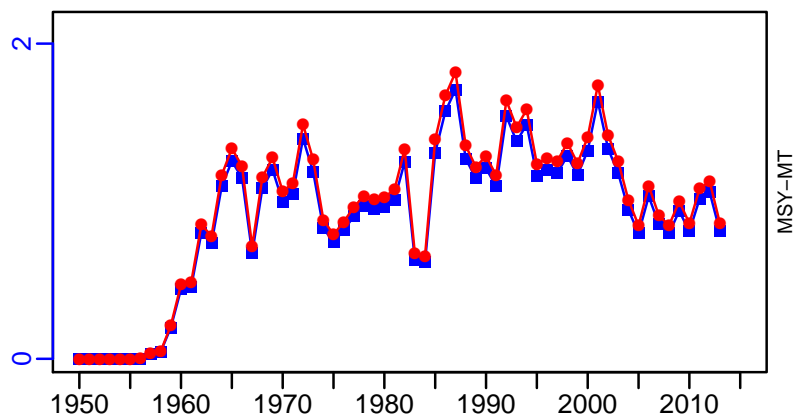
TAC-MT, Cpair\*, Cadv\* (1950-2015-PONS)



**EFFORT\***



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



## Atlantic bluefin tuna Eastern Atlantic [ATBTUNAEATL]

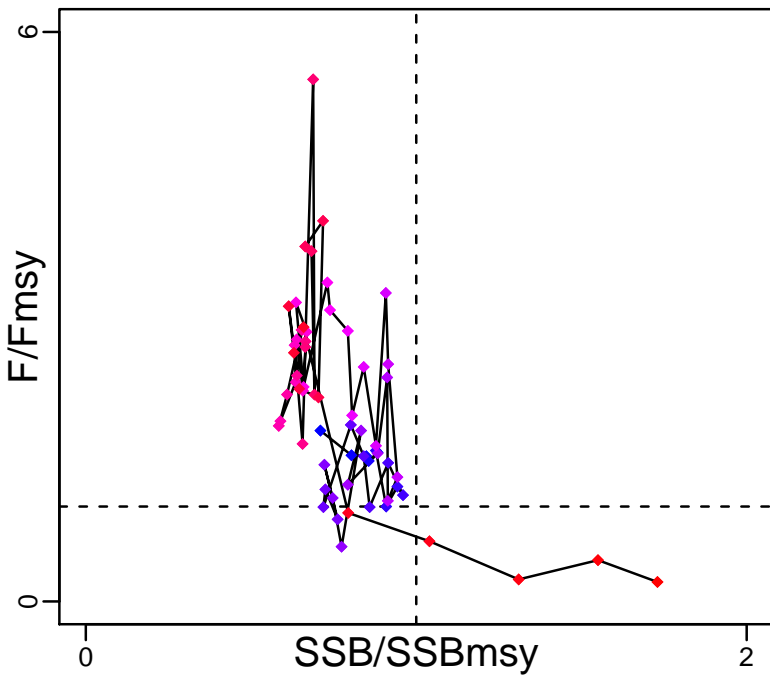
Metadata	
<b>Scientific Name</b>	Thunnus thynnus
<b>Current Assess ID</b>	ICCAT-ATBTUNAEATL-1951-2016-PONS
<b>Area</b>	Eastern Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic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

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

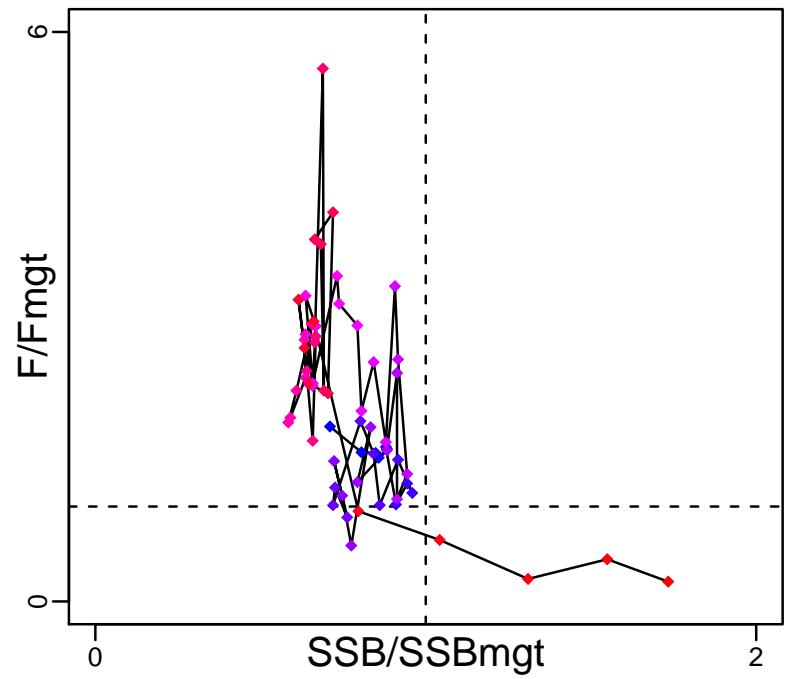
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2016	605,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	4,330,000	-	-
<b>F</b>	F-1/yr	2016	0.038	-	10+
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2015	13,200		
<b>TL</b>	TL-MT	2016	6940		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy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

# Atlantic bluefin tuna Eastern Atlantic [ATBTUNAEATL]

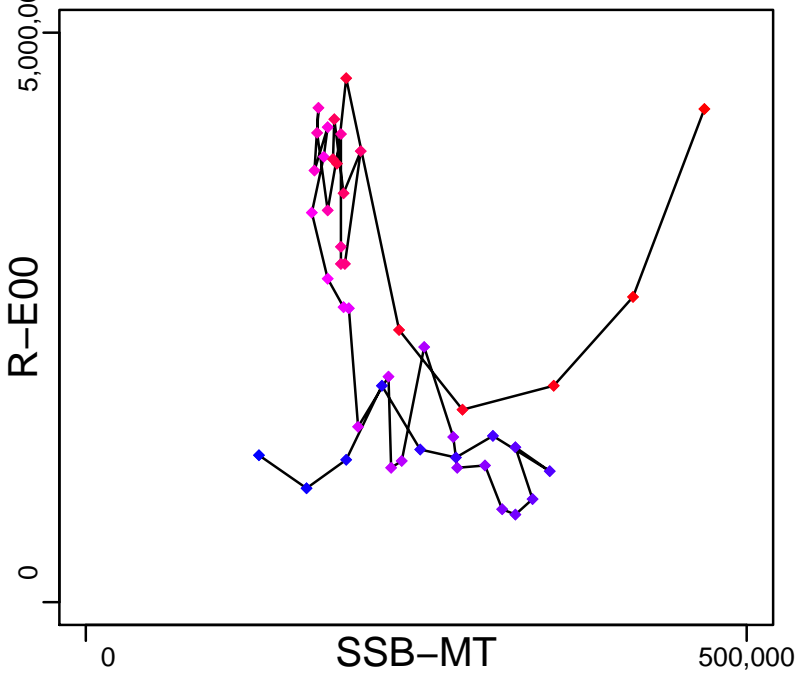
Kobe MSYpref (1950–2015–PONS)



Kobe MGTpref (1950–2015–PONS)



Spawner Recruit (1951–2016–PONS)



Production\*



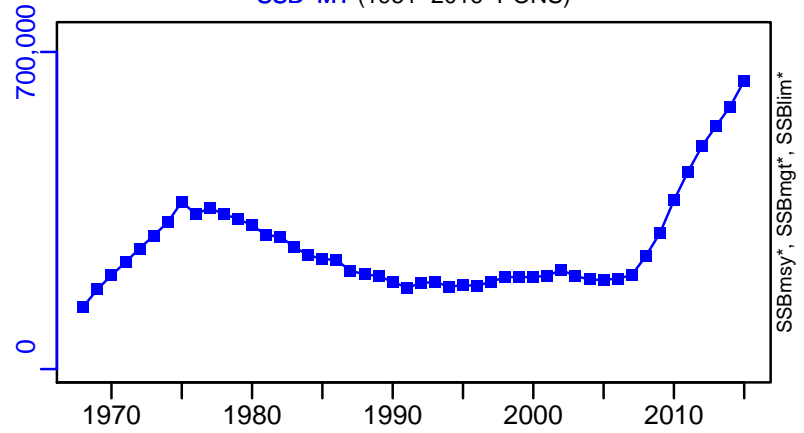
◆ Start Year ◆ End Year \* No Data

# Atlantic bluefin tuna Eastern Atlantic [ATBTUNAEATL]

TB\*



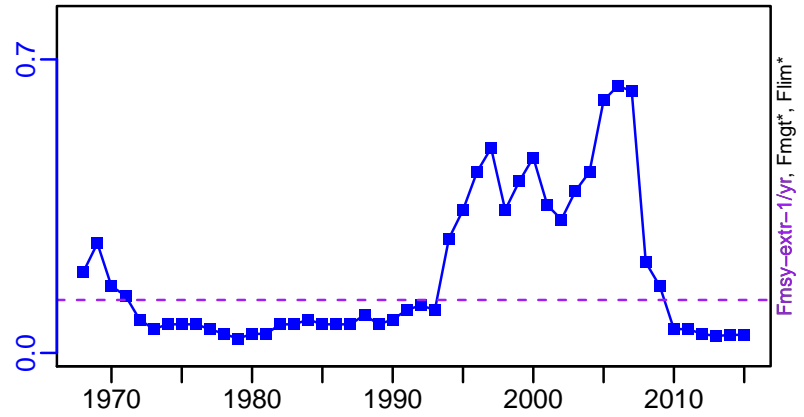
SSB-MT (1951–2016–PONS)



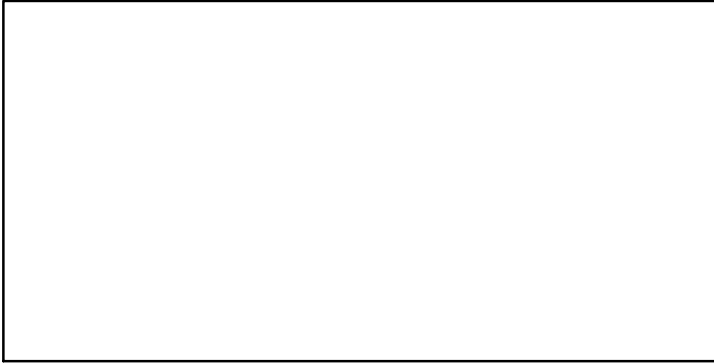
TN \*



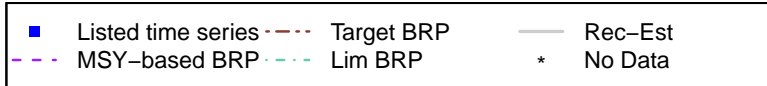
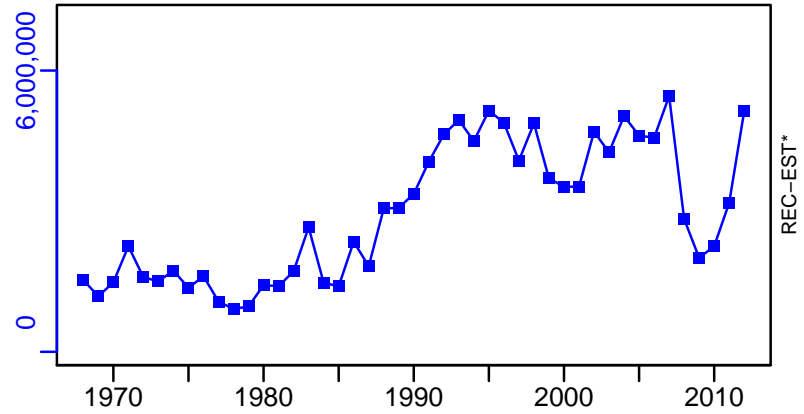
F-1/yr (1951–2016–PONS)



ER\*



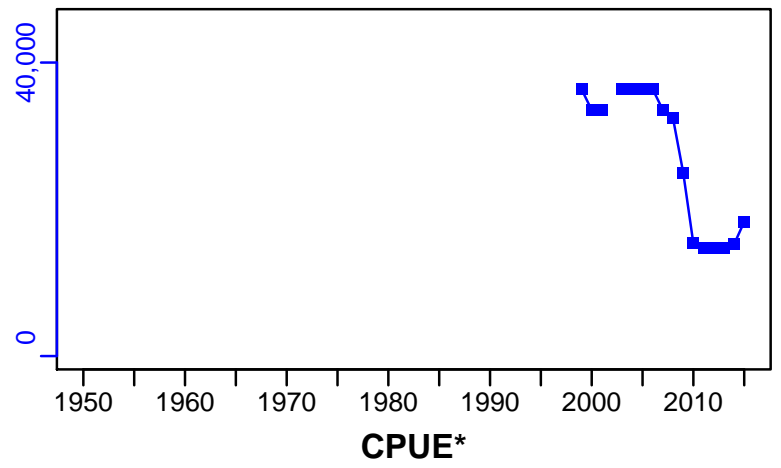
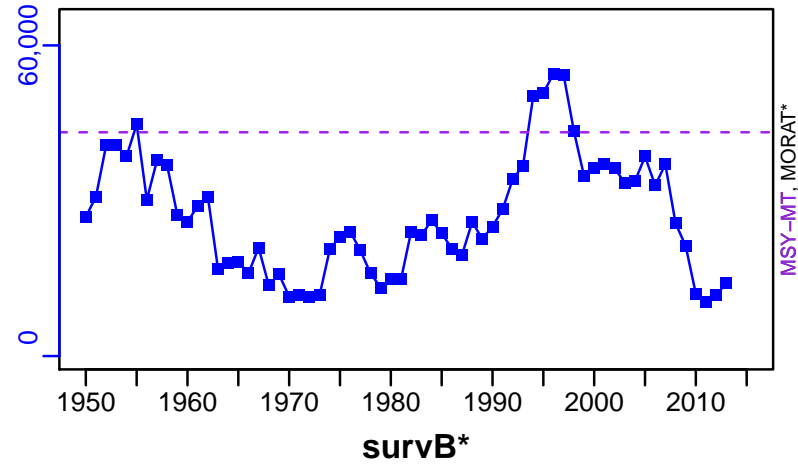
R-E00 (1951–2016–PONS)



# Atlantic bluefin tuna Eastern Atlantic [ATBTUNAEATL]

TC-MT, TL\*, RecC\* (1950-2015-PONS)

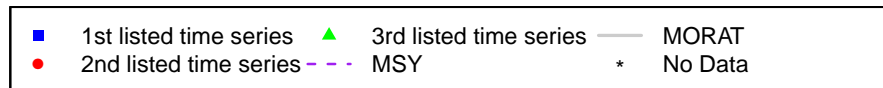
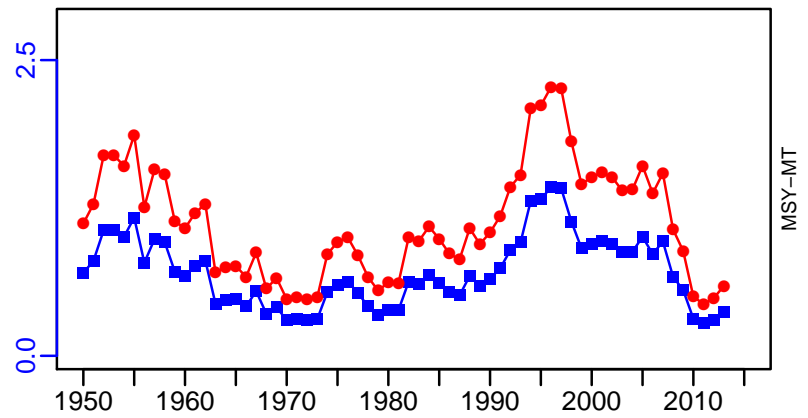
TAC-MT, Cpair\*, Cadv\* (1950-2015-PONS)



EFFORT\*



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



## Atlantic bluefin tuna Western Atlantic [ATBTUNAWATL]

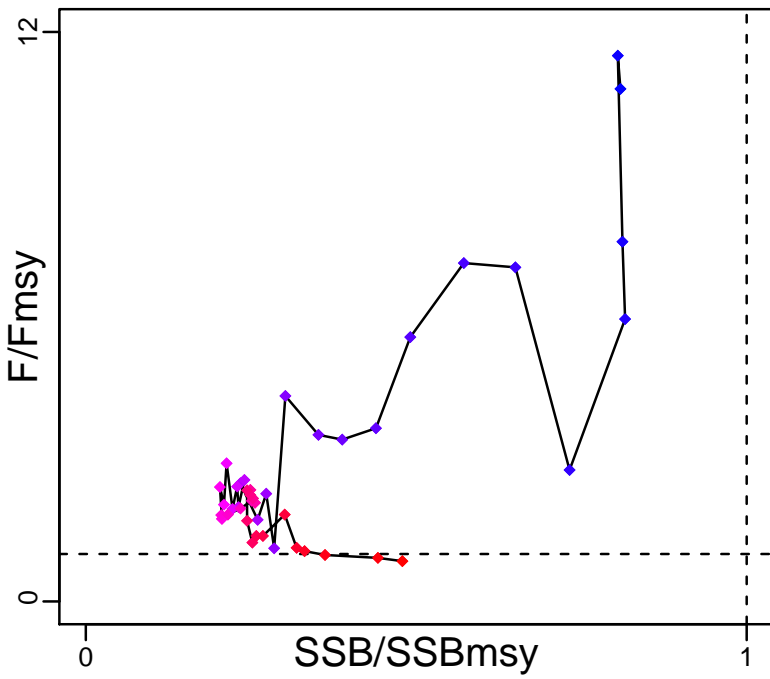
Metadata	
<b>Scientific Name</b>	Thunnus thynnus
<b>Current Assess ID</b>	ICCAT-ATBTUNAWATL-1951-2016-PONS
<b>Area</b>	Western Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic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

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

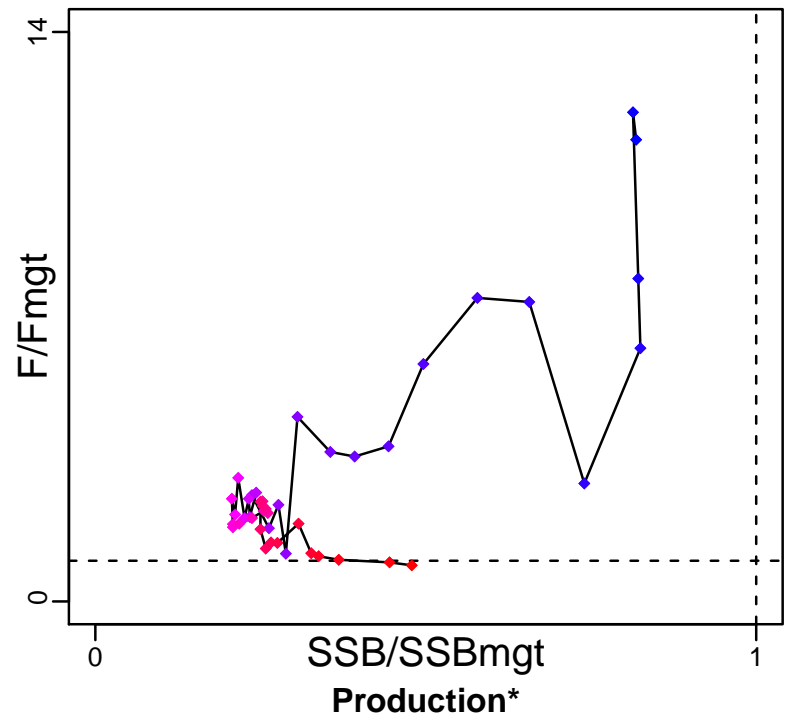
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2016	18,400	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	80,300	-	1
<b>F</b>	F-1/yr	2016	0.094	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2015	1480		
<b>TL</b>	TL-MT	2016	1910		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy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

# Atlantic bluefin tuna Western Atlantic [ATBTUNAWATL]

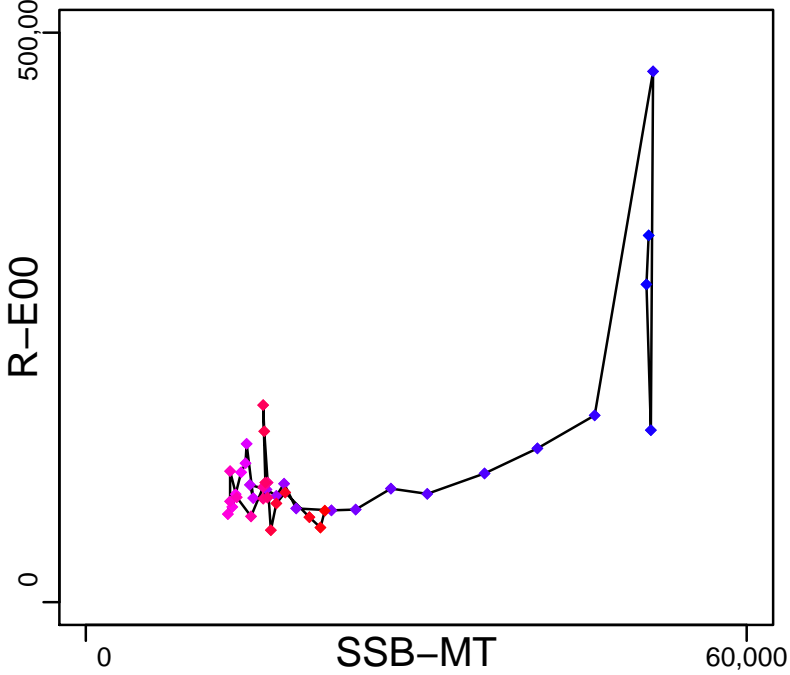
Kobe MSYpref (1950–2015–PONS)



Kobe MGTpref (1950–2015–PONS)



Spawner Recruit (1970–2013–SISIMP2016)



Production\*



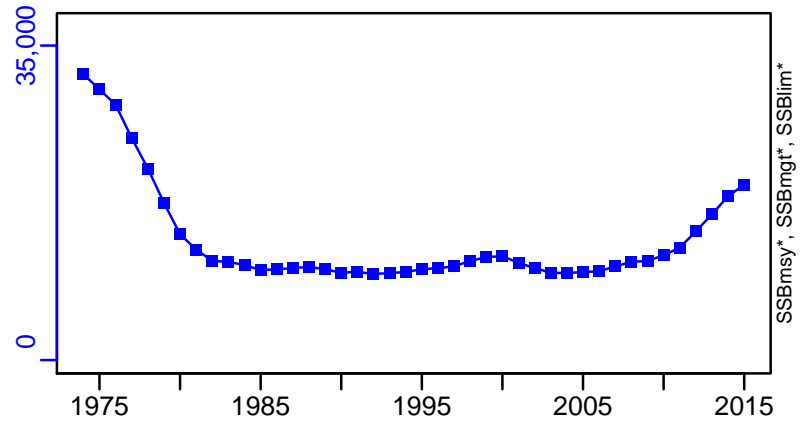
◆ Start Year ◆ End Year \* No Data

# Atlantic bluefin tuna Western Atlantic [ATBTUNAWATL]

TB\*



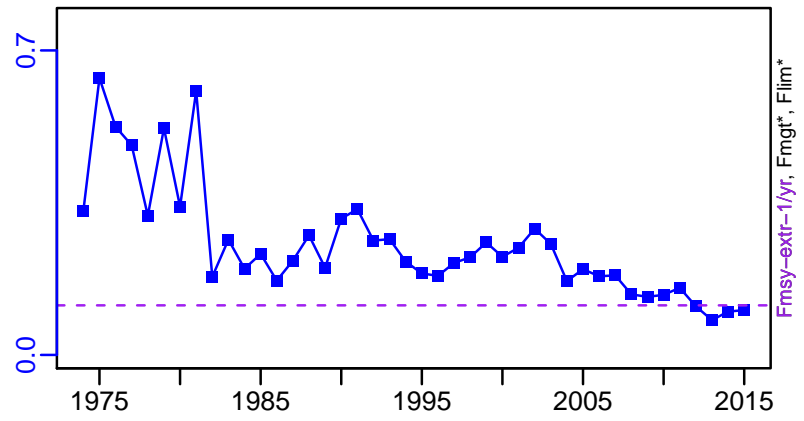
SSB-MT (1951–2016–PONS)



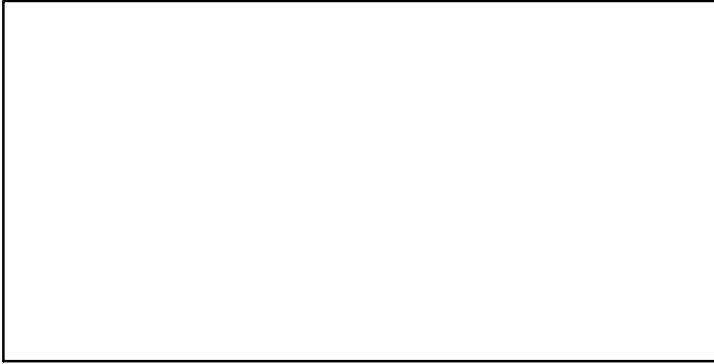
TN \*



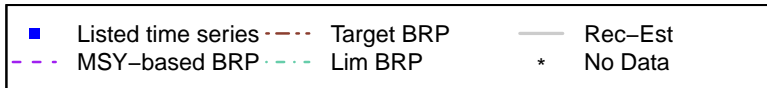
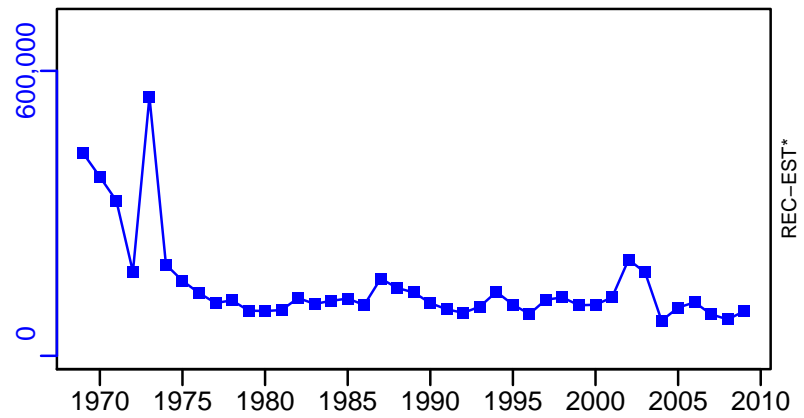
F-1/yr (1951–2016–PONS)



ER\*



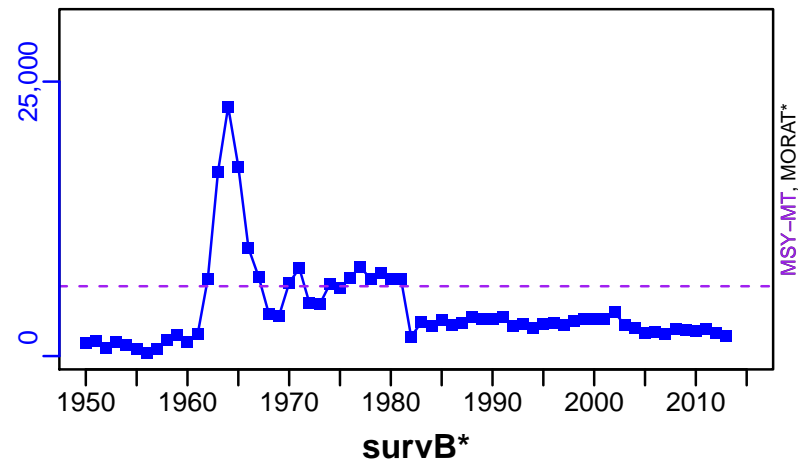
R-E00 (1970–2013–SISIMP2016)



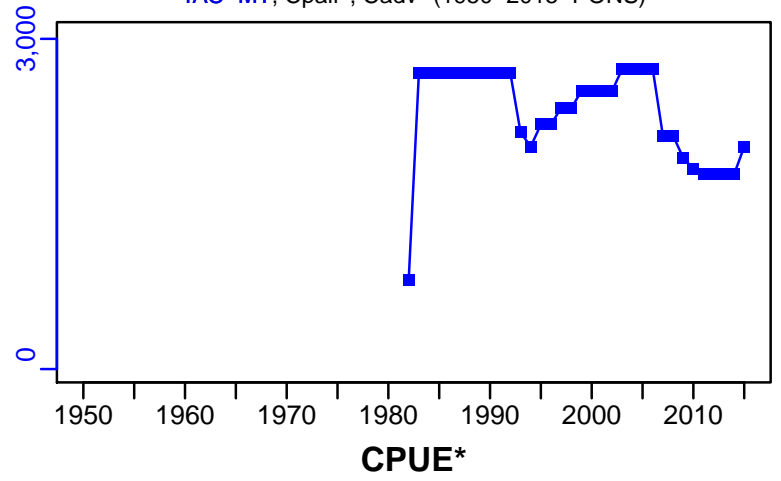


# Atlantic bluefin tuna Western Atlantic [ATBTUNAWATL]

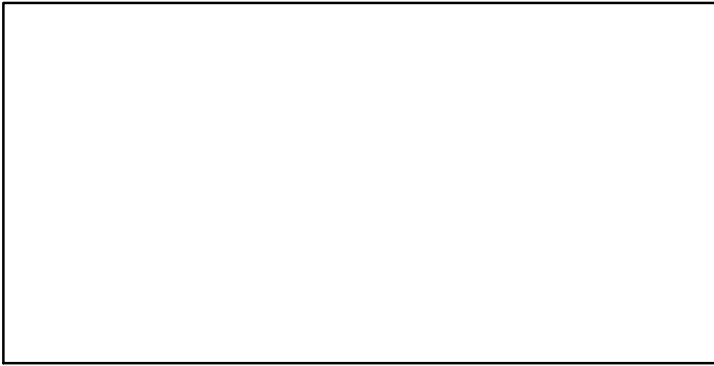
TC-MT, TL\*, RecC\* (1950-2015-PONS)



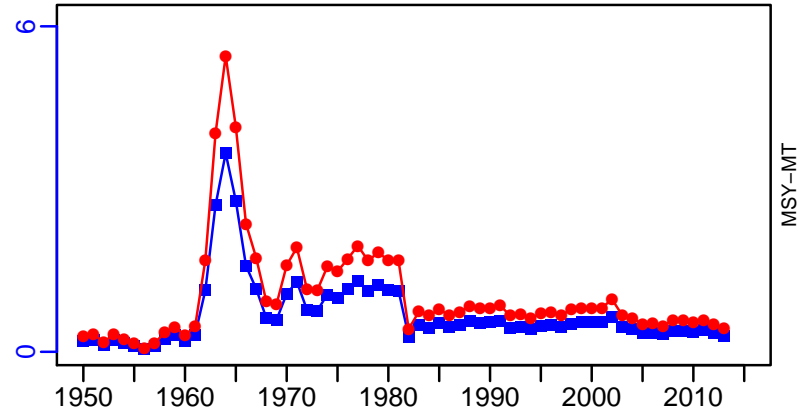
TAC-MT, Cpair\*, Cadv\* (1950-2015-PONS)



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]

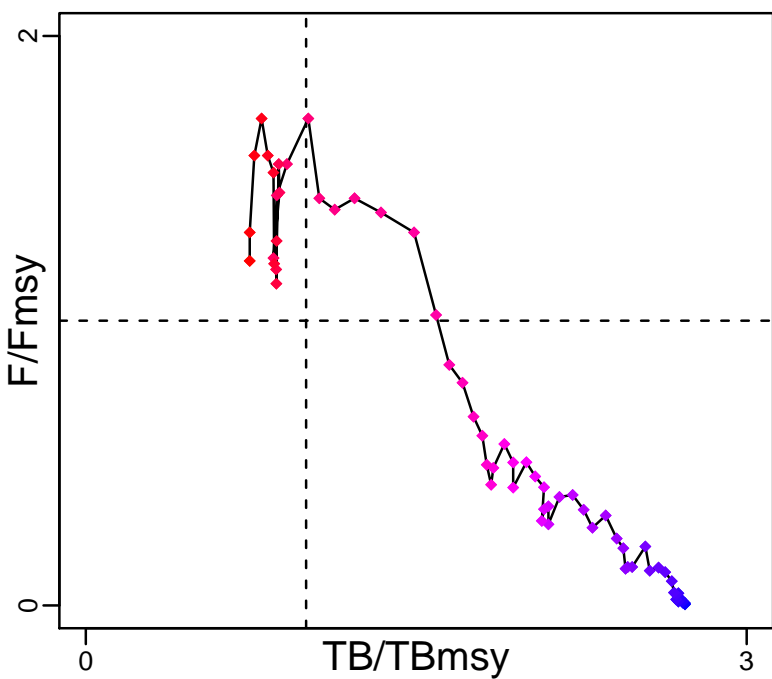
Metadata	
<b>Scientific Name</b>	Thunnus obesus
<b>Current Assess ID</b>	ICCAT-BIGEYEATL-1950-2016-PONS
<b>Area</b>	Atlantic Ocean
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic Tunas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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-extr-MT	2016	451,460
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-extr-1/yr	2016	0.163
<b>ERmsy</b>	ERmsy-calc-ratio	2010	0.216
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2010	92,000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

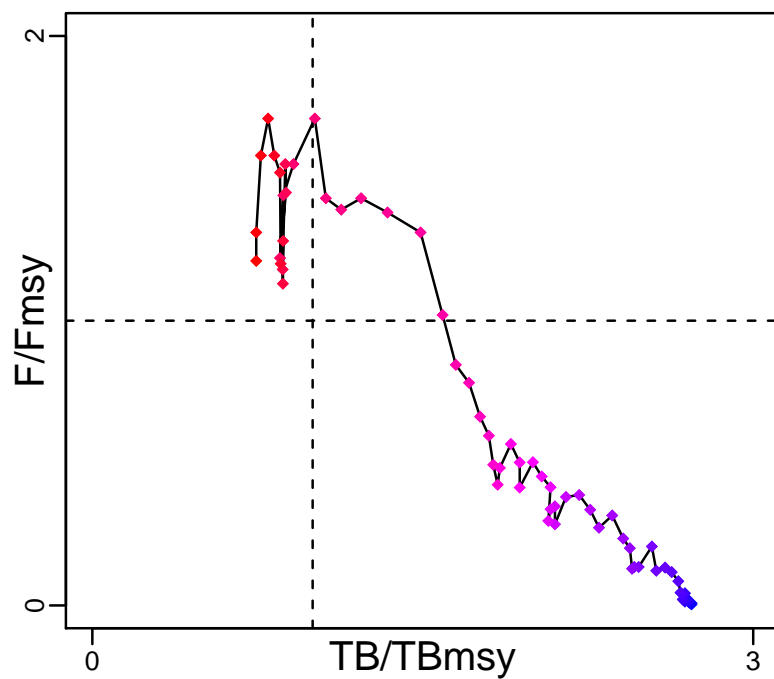
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	426,000	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2016	0.136	-	-
<b>ER</b>	ER-calc-ratio	2016	0.184	-	-
<b>TC</b>	TC-MT	2010	87,900		
<b>TL</b>	TL-MT	2016	72,400		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless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

# Bigeye tuna Atlantic Ocean [BIGEYEATL]

Kobe MSYpref (1950–2016–PONS)



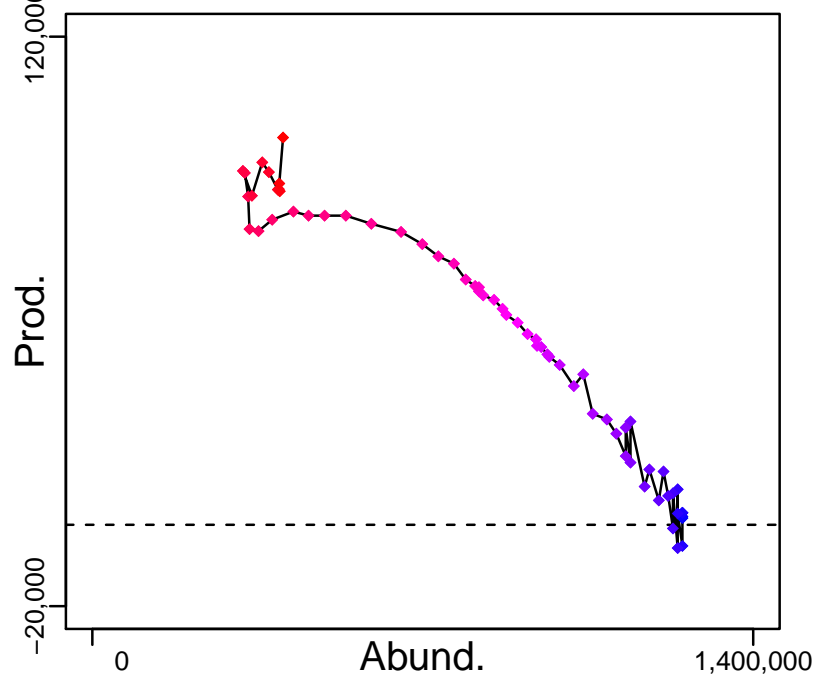
Kobe MGTpref (1950–2016–PONS)



Spawner Recruit\*

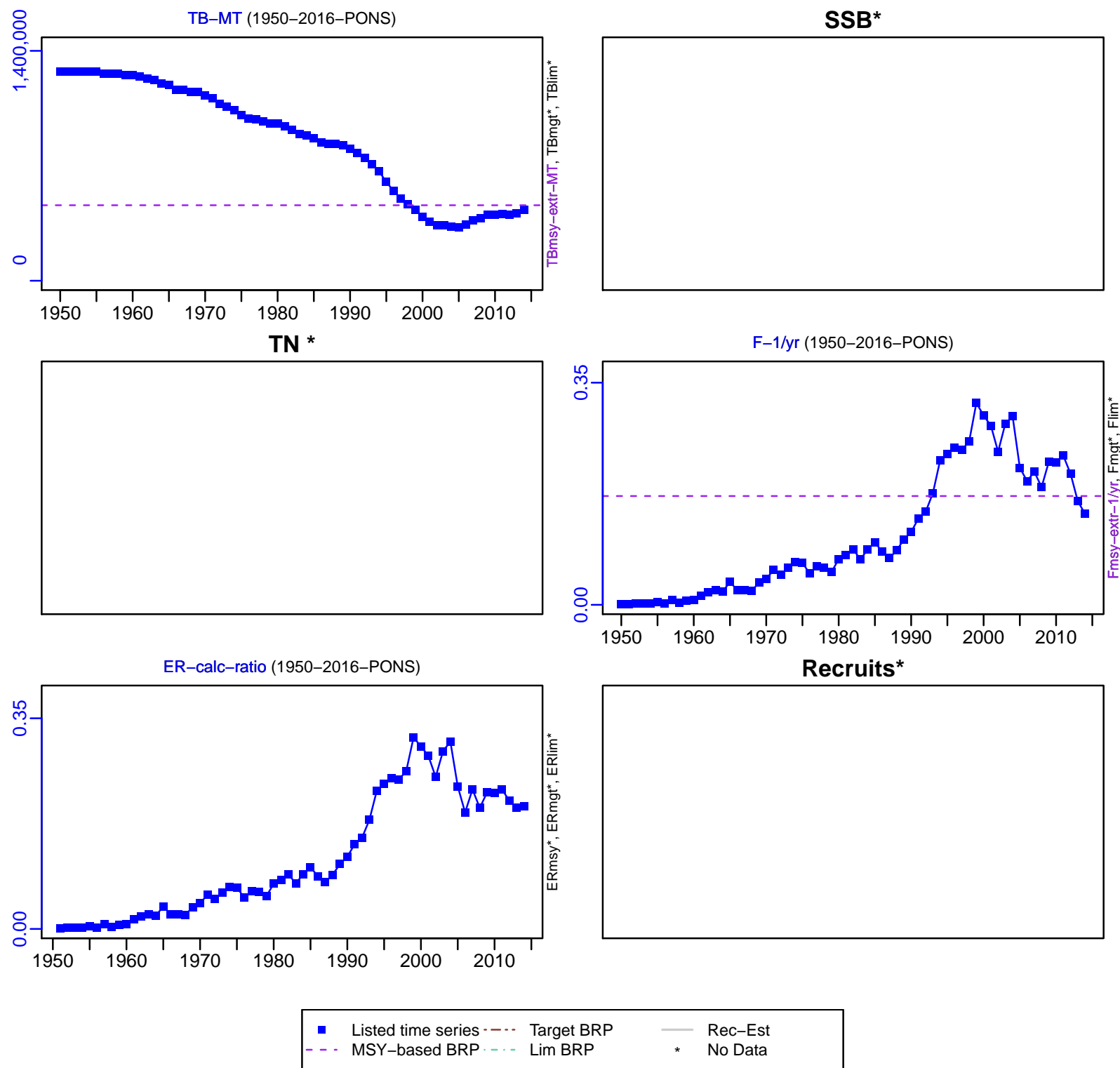


Production (1950–2016–PONS)



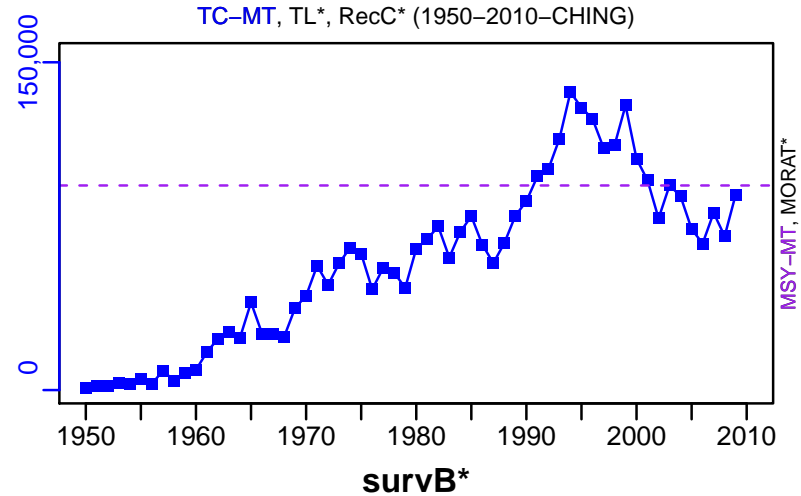
◆ Start Year ◆ End Year \* No Data

# Bigeye tuna Atlantic Ocean [BIGEYEATL]



# Bigeye tuna Atlantic Ocean [BIGEYEATL]

TC-MT, TL\*, RecC\* (1950–2010–CHING)



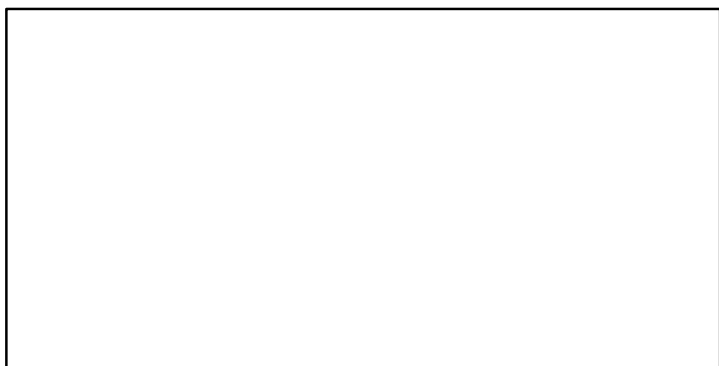
TAC\*, Cpair\*, Cadv\*



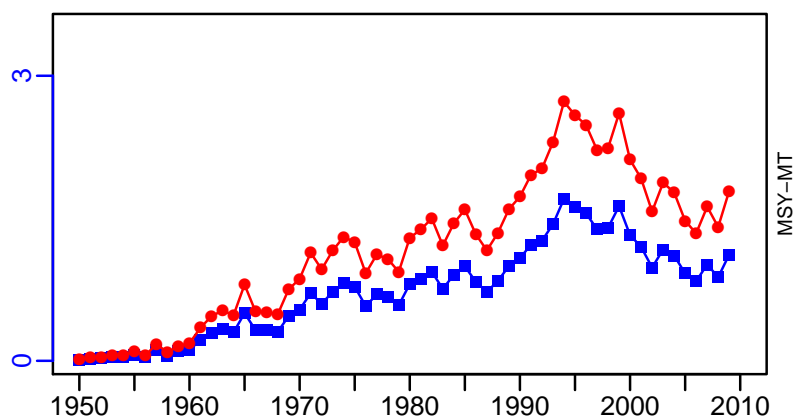
CPUE\*



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]

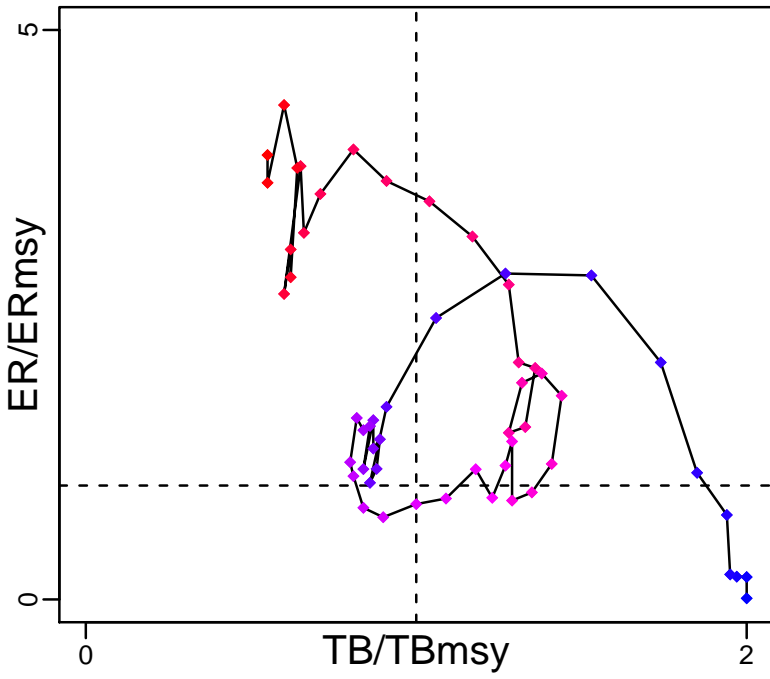
Metadata	
<b>Scientific Name</b>	Makaira nigricans
<b>Current Assess ID</b>	ICCAT-BMARLINATL-1956-2010-CHING
<b>Area</b>	Atlantic Ocean
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic Tunas
<b>Asmts in RAM</b>	2010

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-extr-MT	2010	32,515
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-calc-ratio	2010	0.062
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2010	2000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

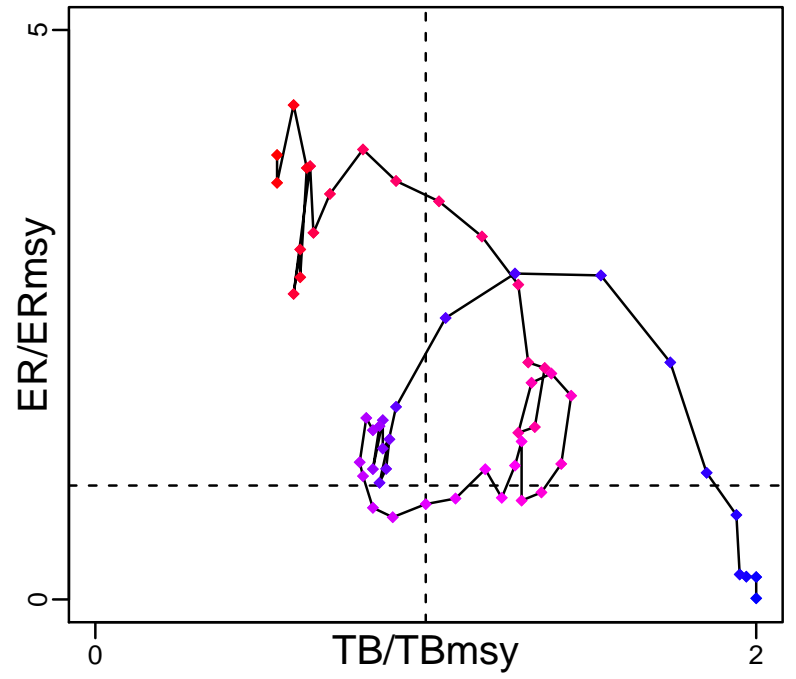
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	14,300	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2010	0.222	-	-
<b>ER</b>	ER-ratio	2010	0.24	-	-
<b>TC</b>	TC-MT	2010	3430		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2010	0.55		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2010	1.72		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-calc-ratio	2010	3.902		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Blue marlin Atlantic Ocean [BMARLINATL]

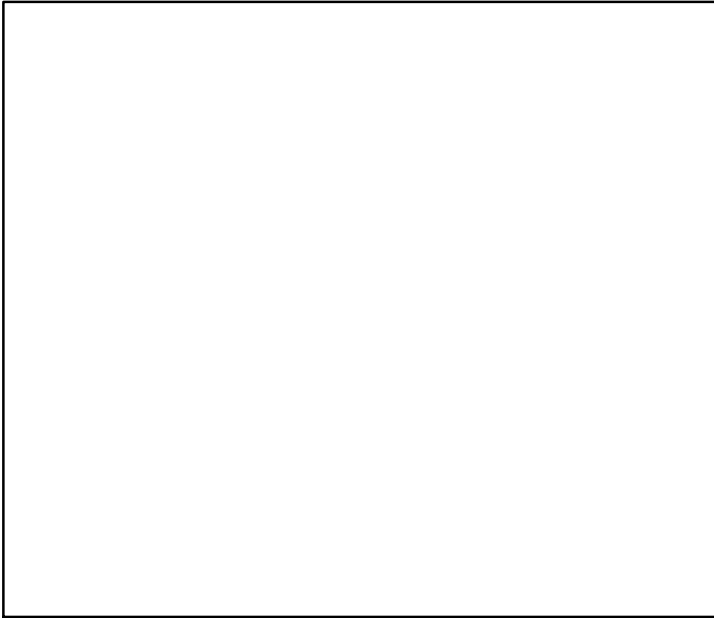
Kobe MSYpref (1956–2010–CHING)



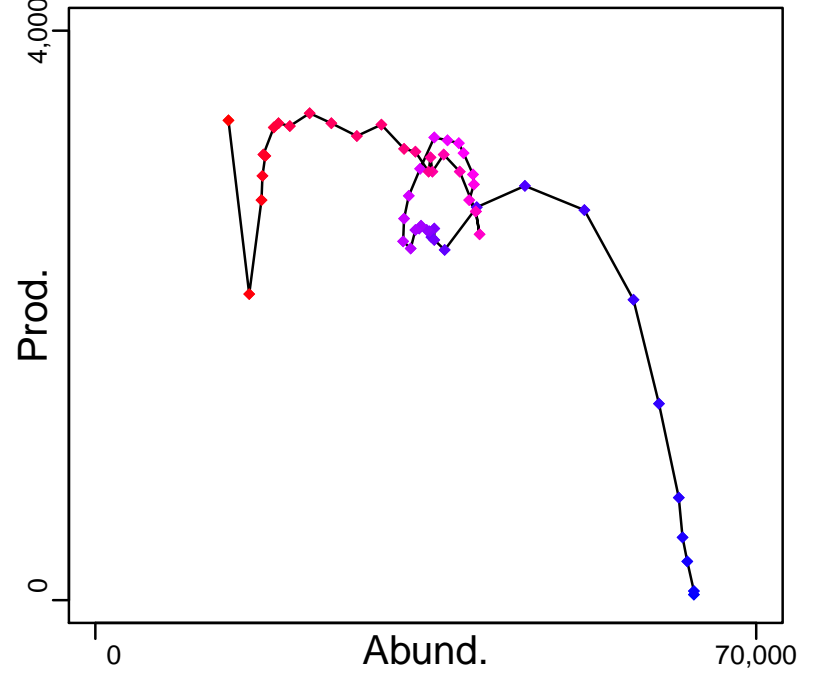
Kobe MGTpref (1956–2010–CHING)



Spawner Recruit\*



Production (1956–2010–CHING)

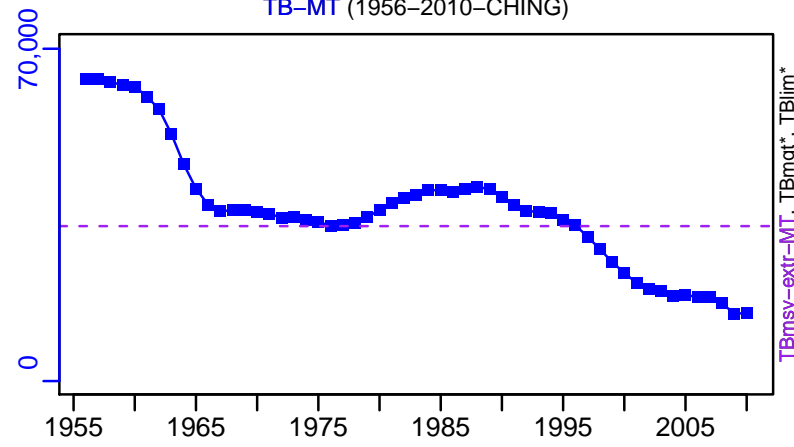


◆ Start Year ◆ End Year \* No Data

# Blue marlin Atlantic Ocean [BMARLINATL]

TB-MT (1956-2010-CHING)

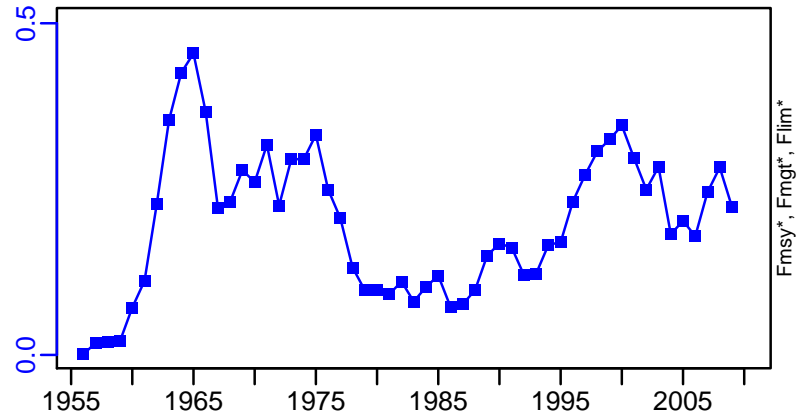
SSB\*



TN \*

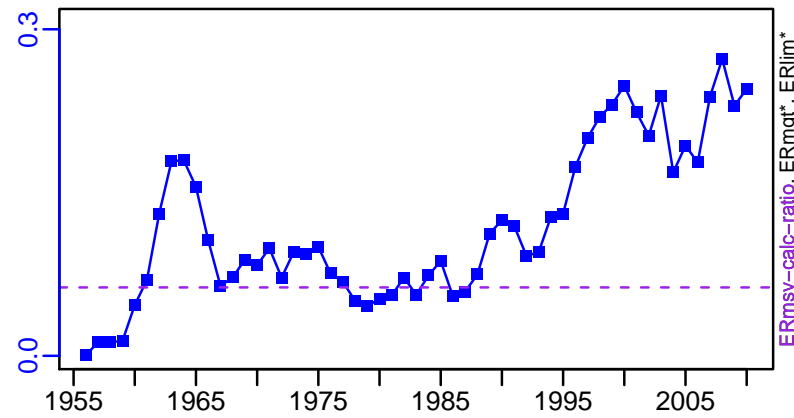


F-1/yr (1956-2010-CHING)



ER-ratio (1956-2010-CHING)

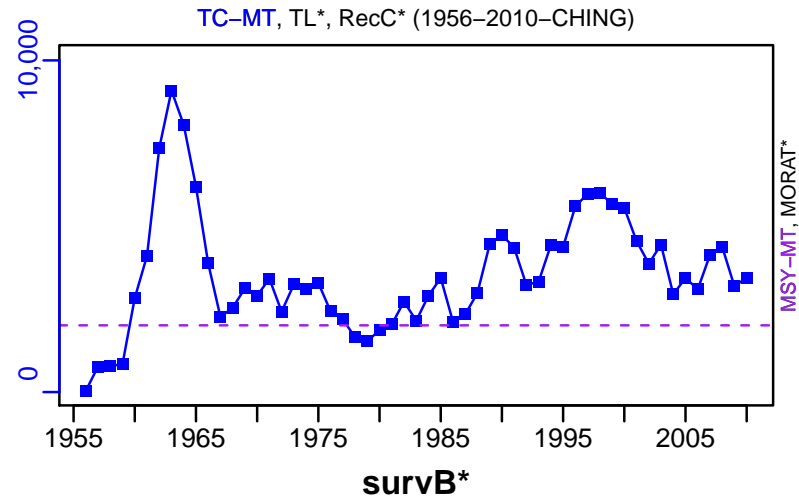
Recruits\*





# Blue marlin Atlantic Ocean [BMARLINATL]

TC-MT, TL\*, RecC\* (1956-2010-CHING)



TAC\*, Cpair\*, Cadv\*



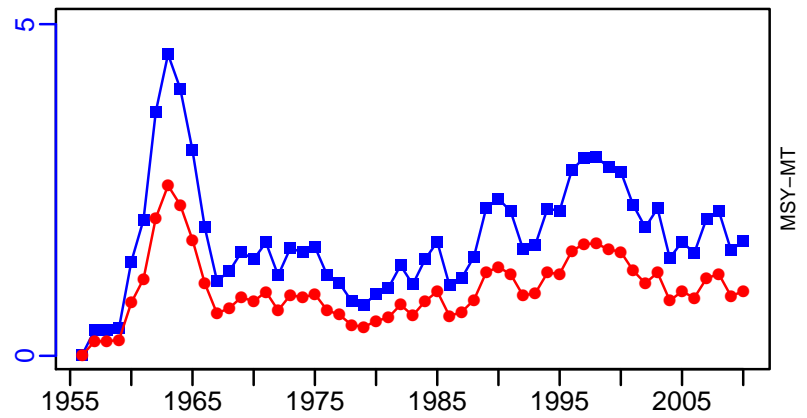
CPUE\*



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 Eastern Atlantic [SAILEATL]

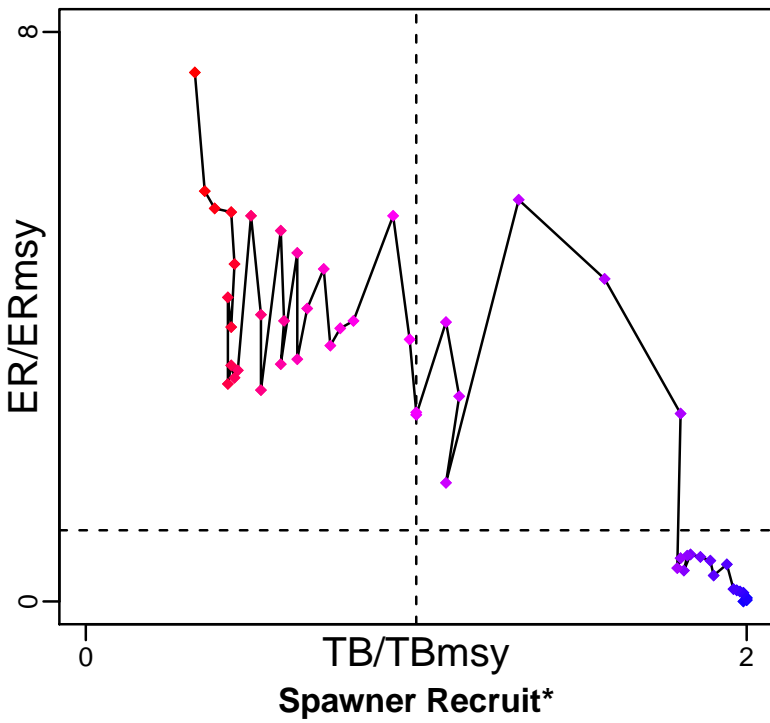
Metadata	
<b>Scientific Name</b>	Istiophorus albicans
<b>Current Assess ID</b>	ICCAT-SAILEATL-1956-2010-CHING
<b>Area</b>	Eastern Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-extr-MT	2010	14,775
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2010	0.145
<b>ERmsy</b>	ERmsy-calc-ratio	2010	0.058
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2010	24,320
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2010	851
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

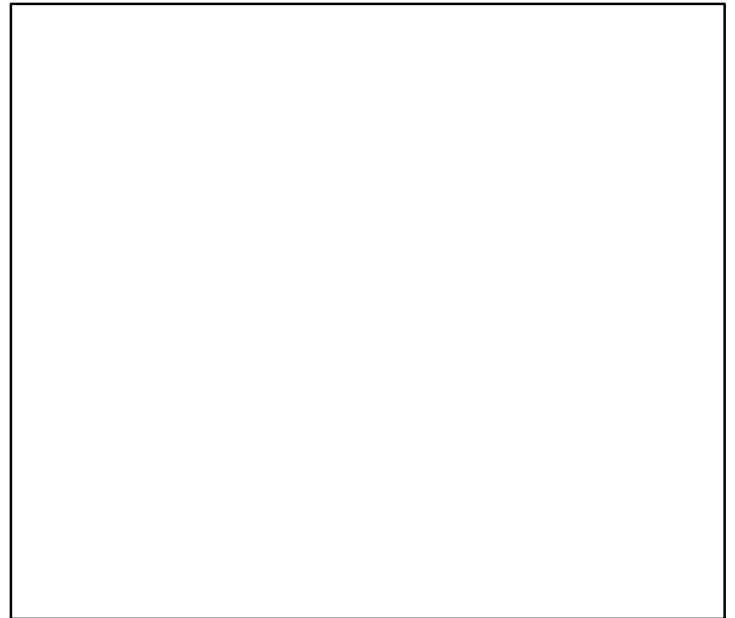
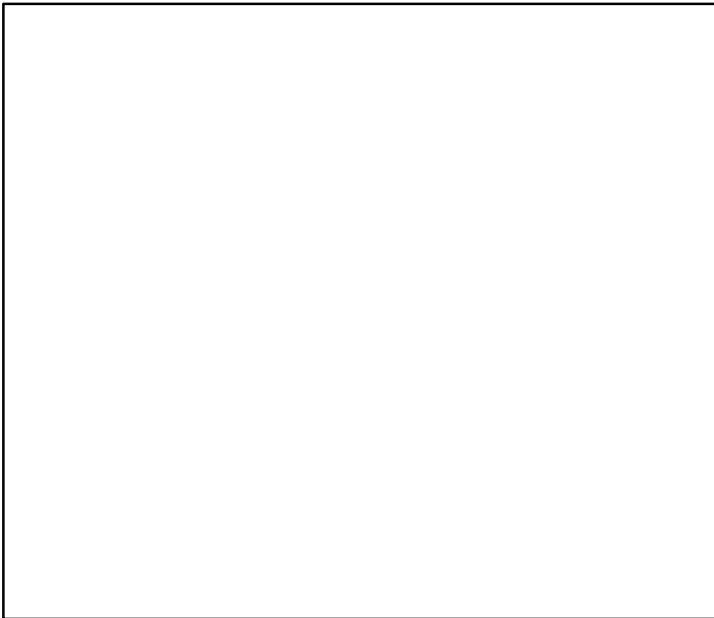
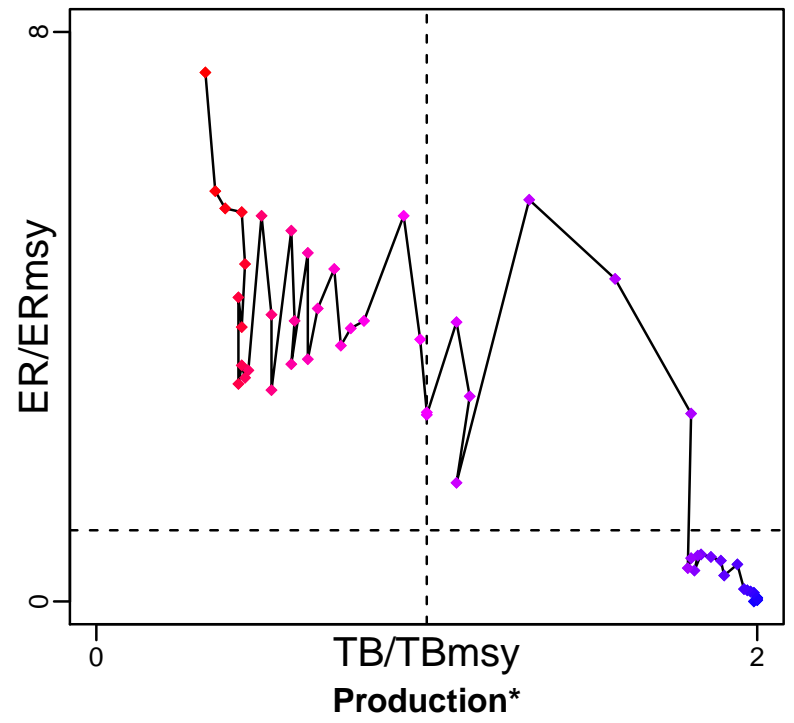
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	3620	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2010	0.428	-	-
<b>TC</b>	TC-MT	2010	2770		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2010	0.26		
<b>SSB/SSBmsy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

# Sailfish Eastern Atlantic [SAILEATL]

Kobe MSYpref (1956–2010–CHING)



Kobe MGTpref (1956–2010–CHING)

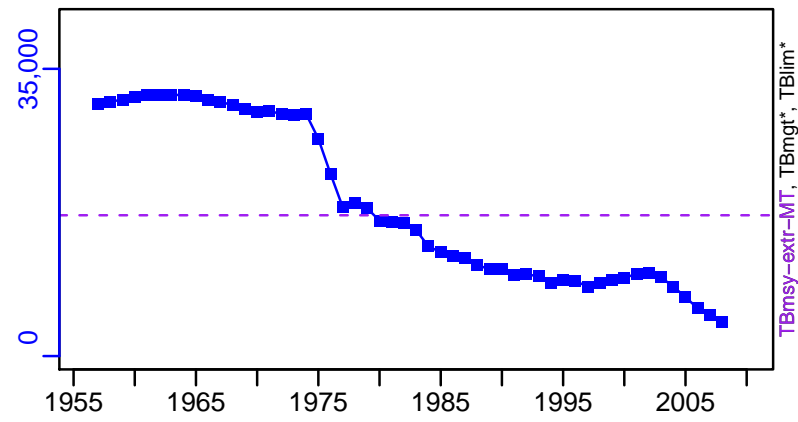


◆ Start Year ◆ End Year \* No Data

# Sailfish Eastern Atlantic [SAILEATL]

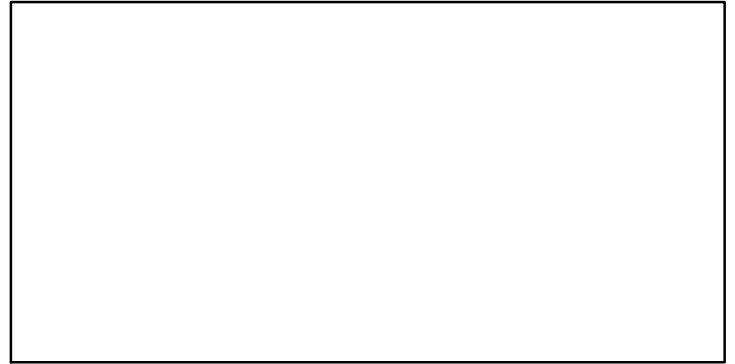
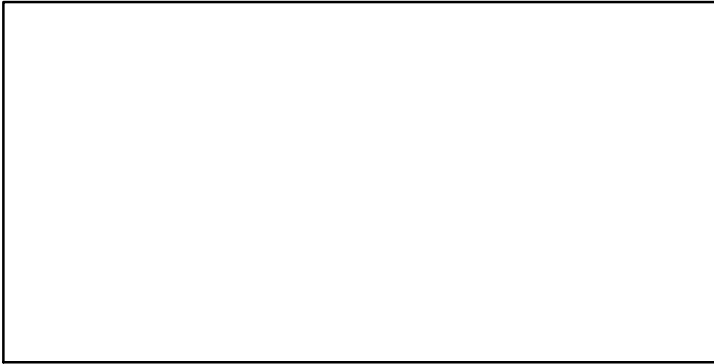
TB-MT (1956-2010-CHING)

SSB\*



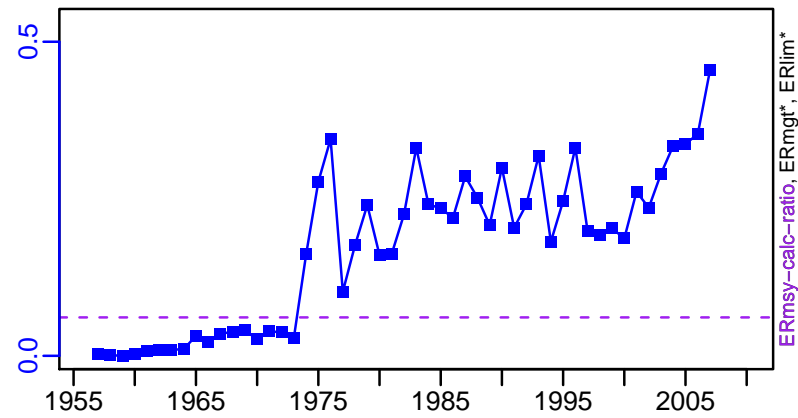
TN \*

F\*



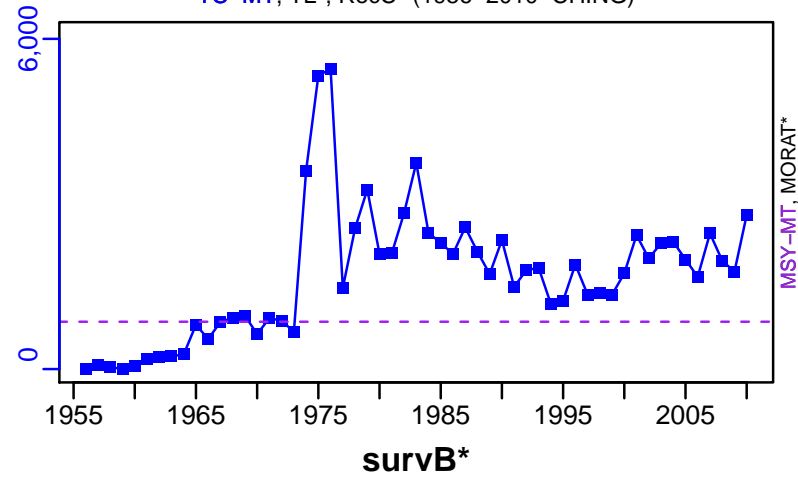
ER-ratio (1956-2010-CHING)

Recruits\*



# Sailfish Eastern Atlantic [SAILEATL]

TC-MT, TL\*, RecC\* (1956–2010–CHING)



TAC\*, Cpair\*, Cadv\*



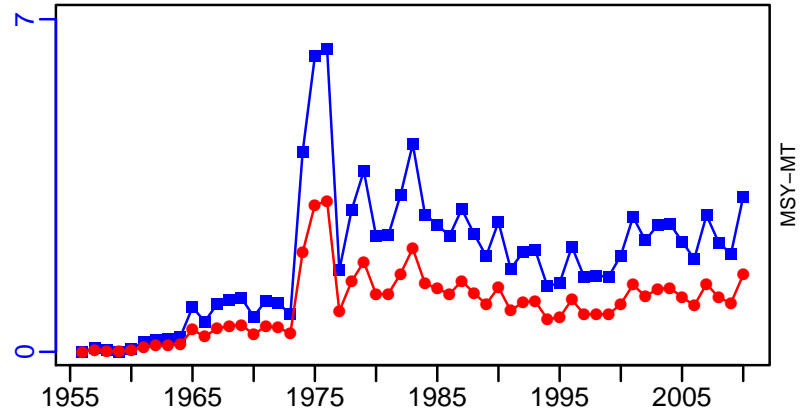
CPUE\*



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]

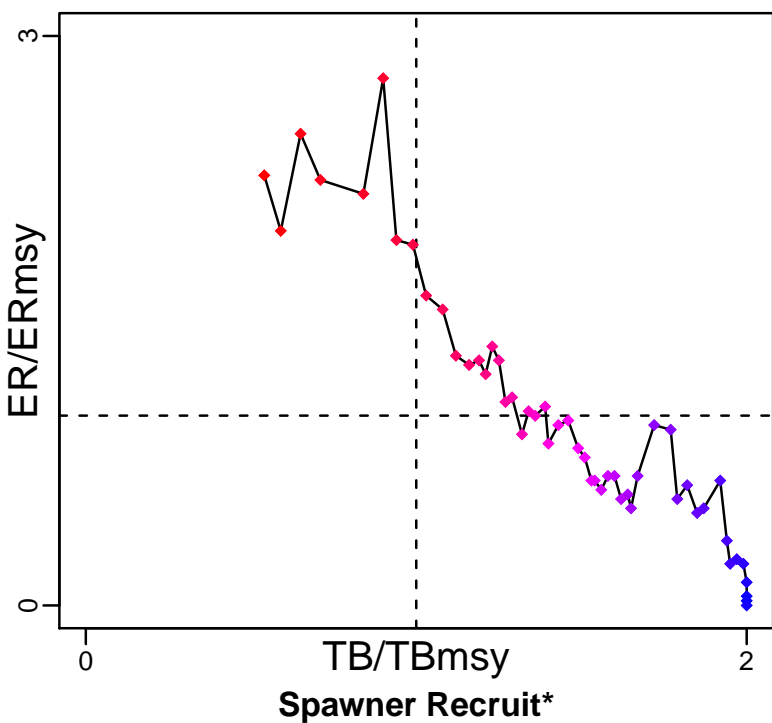
Metadata	
<b>Scientific Name</b>	Istiophorus albicans
<b>Current Assess ID</b>	ICCAT-SAILWATL-1956-2010-CHING
<b>Area</b>	Western Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-extr-MT	2010	20,708
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2010	0.043
<b>ERmsy</b>	ERmsy-calc-ratio	2010	0.041
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2010	41,070
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2010	850
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

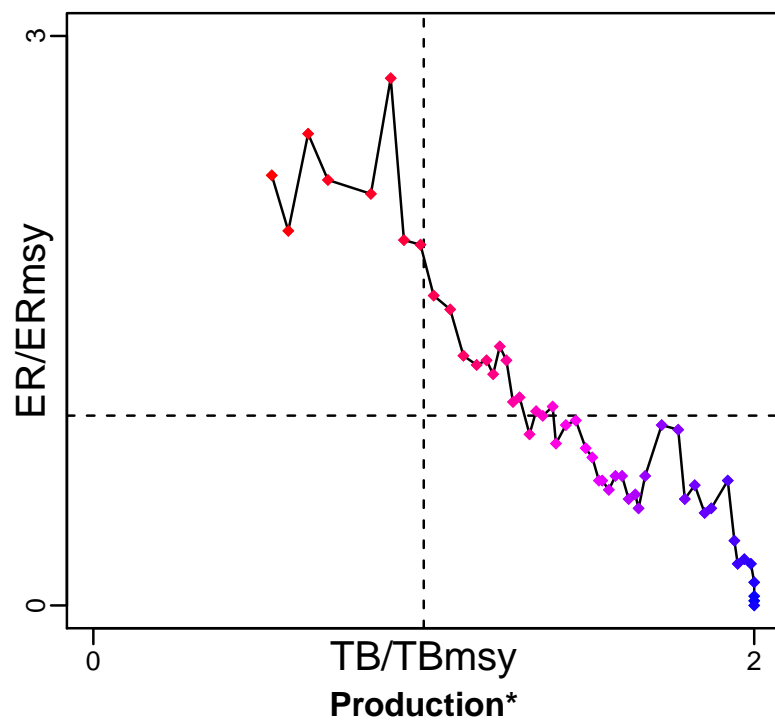
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	14,500	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2010	0.093	-	-
<b>TC</b>	TC-MT	2010	625		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2010	0.28		
<b>SSB/SSBmsy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

# Sailfish Western Atlantic [SAILWATL]

Kobe MSYpref (1956–2010–CHING)



Kobe MGTpref (1956–2010–CHING)

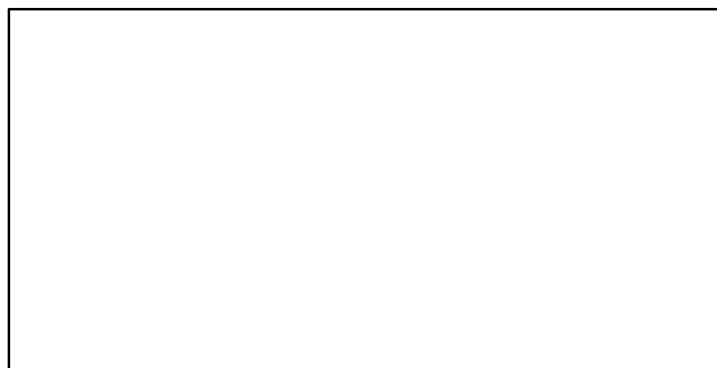
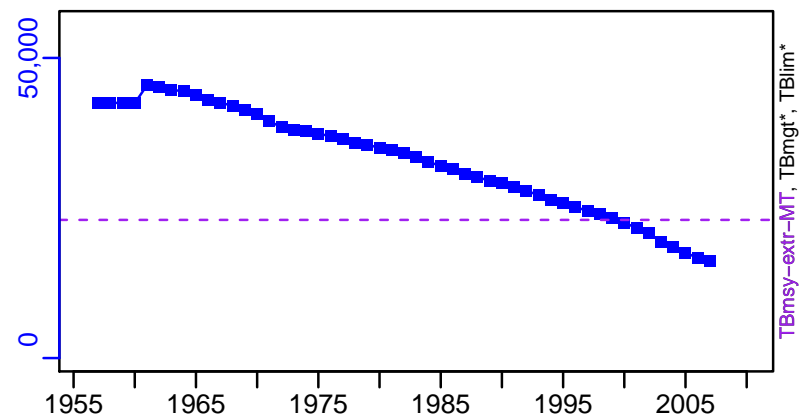


◆ Start Year ◆ End Year \* No Data

# Sailfish Western Atlantic [SAILWATL]

TB-MT (1956-2010-CHING)

SSB\*



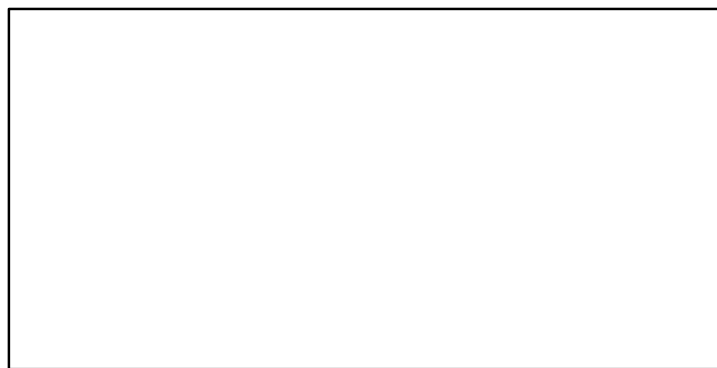
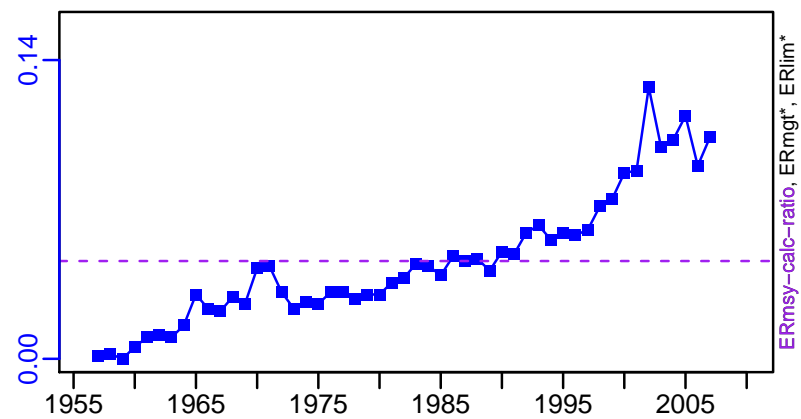
TN \*

F\*



ER-ratio (1956-2010-CHING)

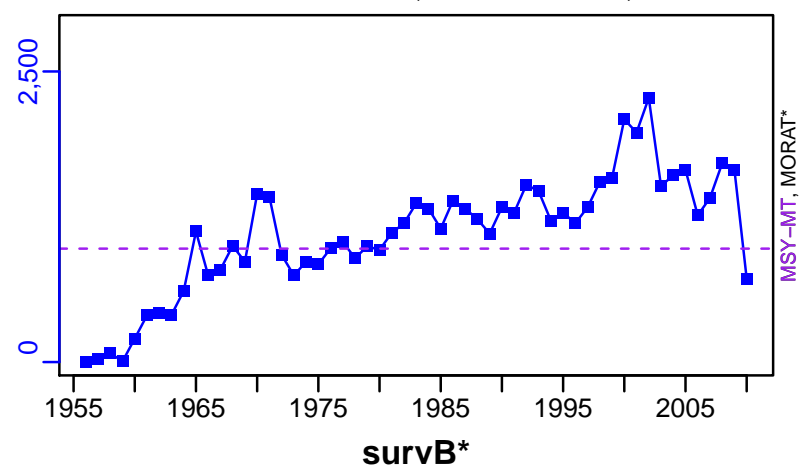
Recruits\*





# Sailfish Western Atlantic [SAILWATL]

TC-MT, TL\*, RecC\* (1956–2010–CHING)



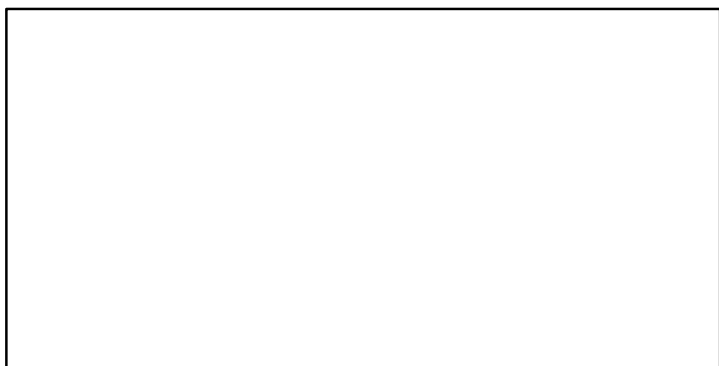
TAC\*, Cpair\*, Cadv\*



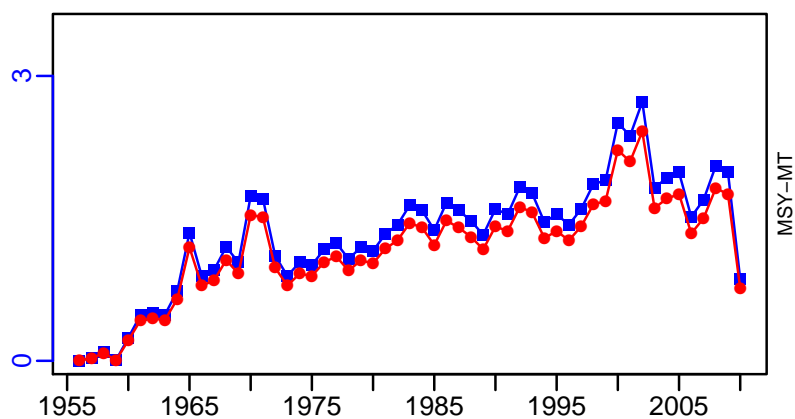
CPUE\*



EFFORT\*



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



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

## Skipjack tuna Eastern Atlantic [SKJEATL]

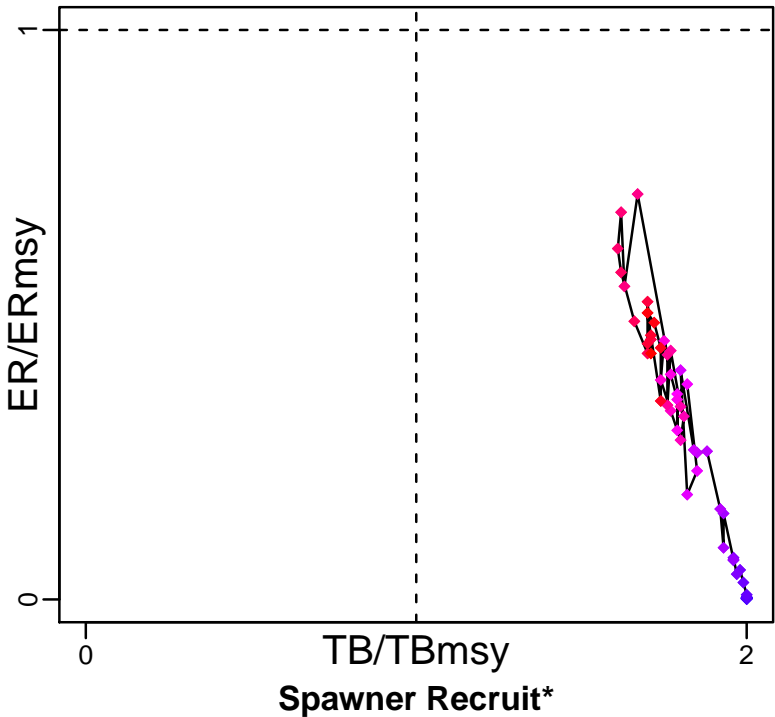
Metadata	
<b>Scientific Name</b>	Katsuwonus pelamis
<b>Current Assess ID</b>	ICCAT-SKJEATL-1951-2016-PONS
<b>Area</b>	Eastern Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic Tunas
<b>Asmts in RAM</b>	2010, 2016

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

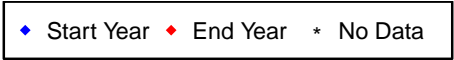
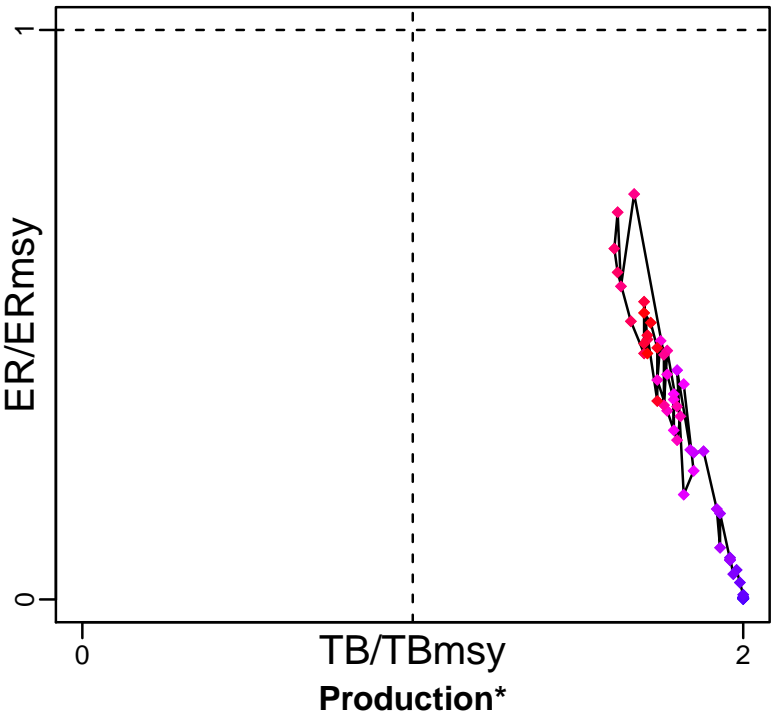
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	656,000	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2010	0.172	-	-
<b>ER</b>	ER-ratio	2010	0.176	-	-
<b>TC</b>	TC-MT	2010	164,000		
<b>TL</b>	TL-MT	2016	217,000		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2010	1.71		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2010	0.27		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-calc-ratio	2010	0.432		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Skipjack tuna Eastern Atlantic [SKJEATL]

Kobe MSYpref (1950–2010–CHING)

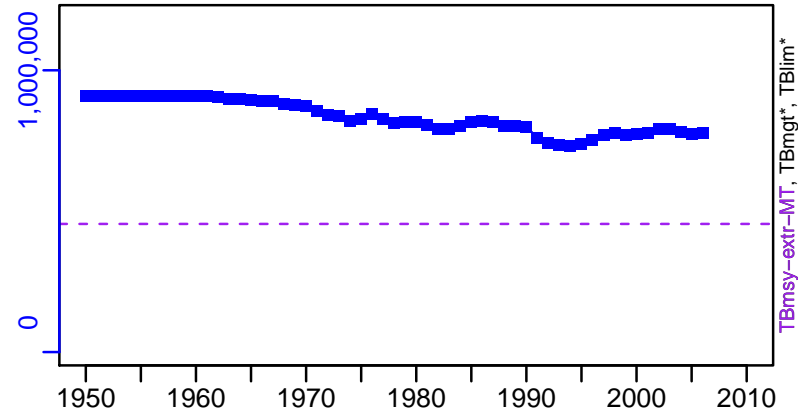


Kobe MGTpref (1950–2010–CHING)



# Skipjack tuna Eastern Atlantic [SKJEATL]

TB-MT (1950-2010-CHING)



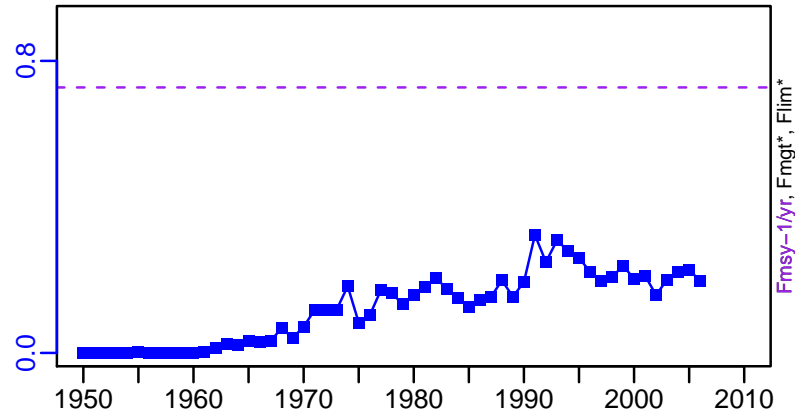
SSB\*



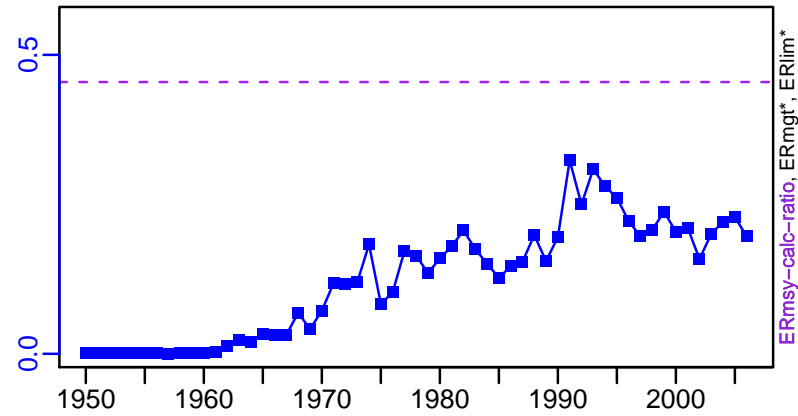
TN \*



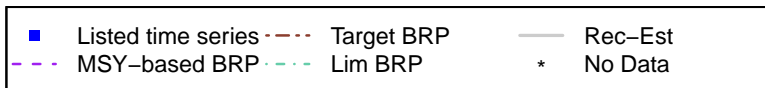
F-1/yr (1950-2010-CHING)



ER-ratio (1950-2010-CHING)

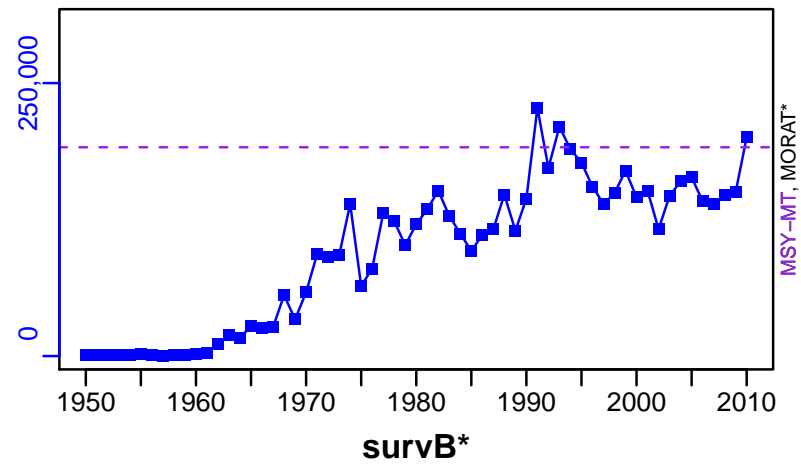


Recruits\*



# Skipjack tuna Eastern Atlantic [SKJEATL]

TC-MT, TL\*, RecC\* (1950–2010–CHING)



TAC\*, Cpair\*, Cadv\*



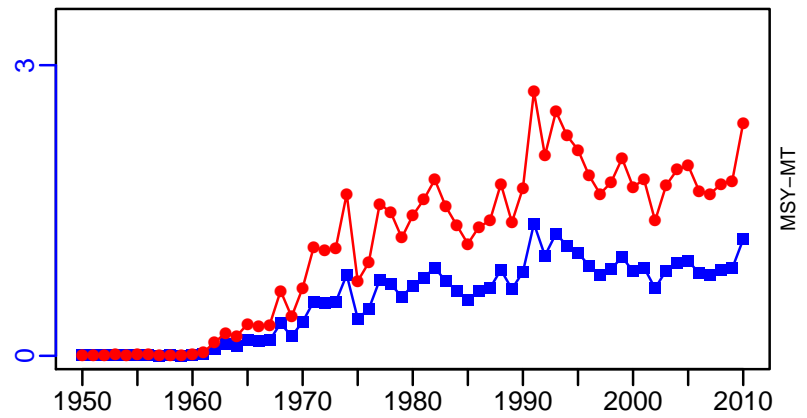
CPUE\*



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

## Skipjack tuna Western Atlantic [SKJWATL]

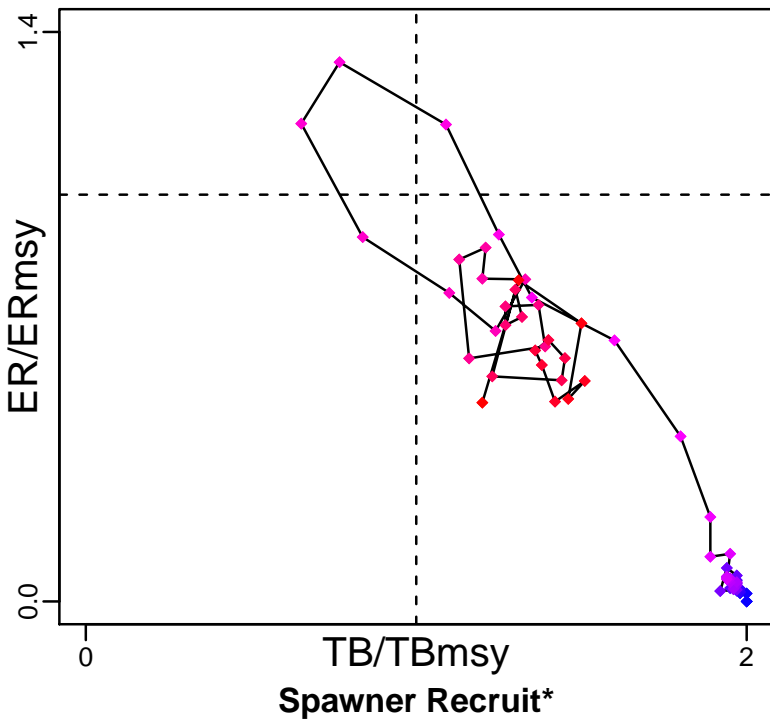
Metadata	
<b>Scientific Name</b>	Katsuwonus pelamis
<b>Current Assess ID</b>	ICCAT-SKJWATL-1950-2014-PONS
<b>Area</b>	Western Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2014	29,160
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2014	1.08
<b>ERmsy</b>	ERmsy-calc-ratio	2014	1.084
<b>TBmgt</b>	TBmgt-MT	2014	29,160
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	1.08
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2014	31,620
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

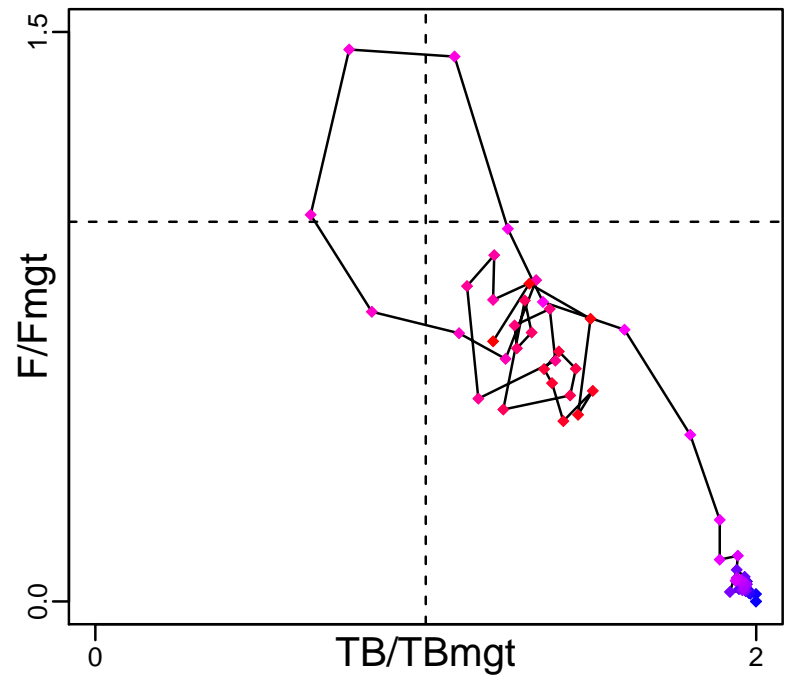
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	37,600	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2014	0.74	-	-
<b>ER</b>	ER-calc-ratio	2014	0.53	-	-
<b>TC</b>	TC-MT	2014	18,600		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2014	1.29		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2014	0.683		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2014	0.489		
<b>TB/TBmgt</b>	TB-MT/TBmgt-MT	2014	1.289		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	0.685		
<b>ER/ERmgt</b>	-	-	-		

# Skipjack tuna Western Atlantic [SKJWATL]

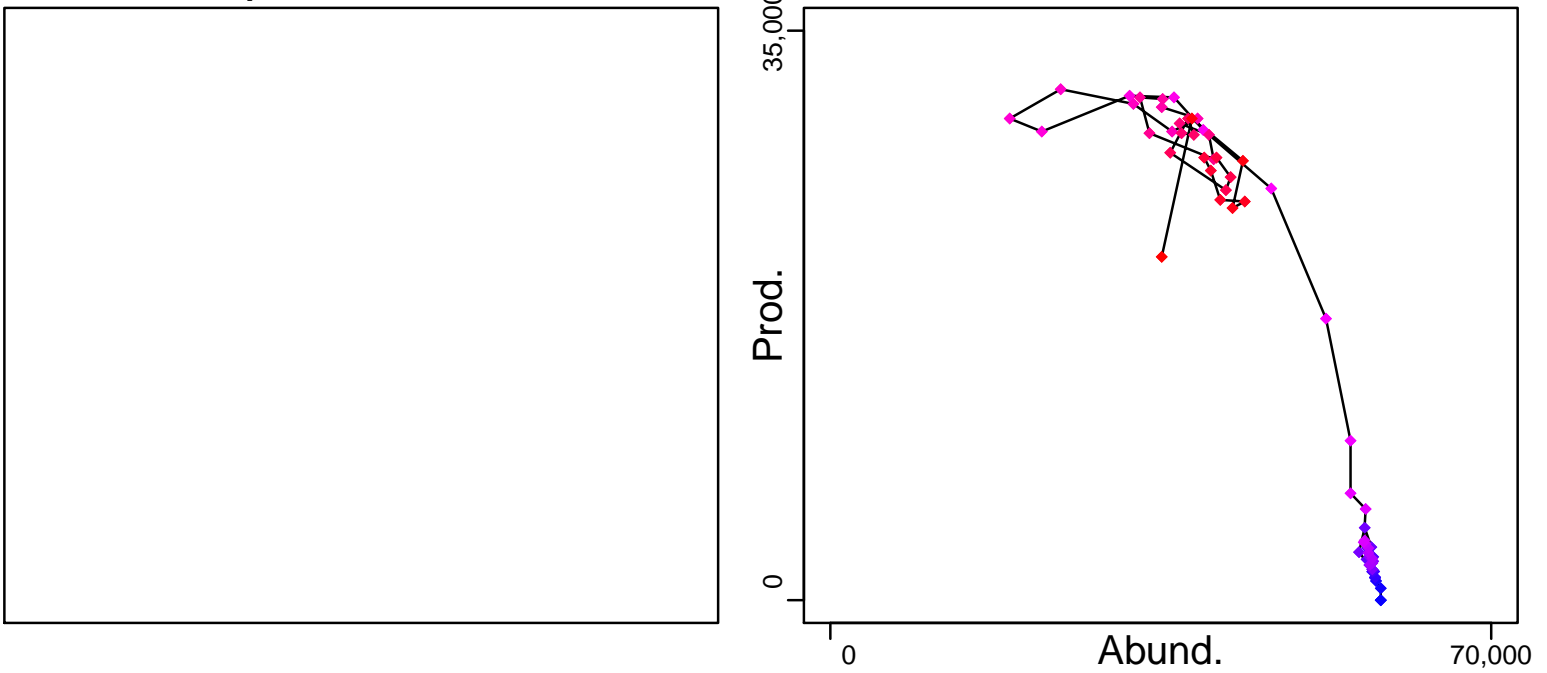
Kobe MSYpref (1950–2014–PONS)



Kobe MGTpref (1950–2014–PONS)



Production (1950–2014–PONS)

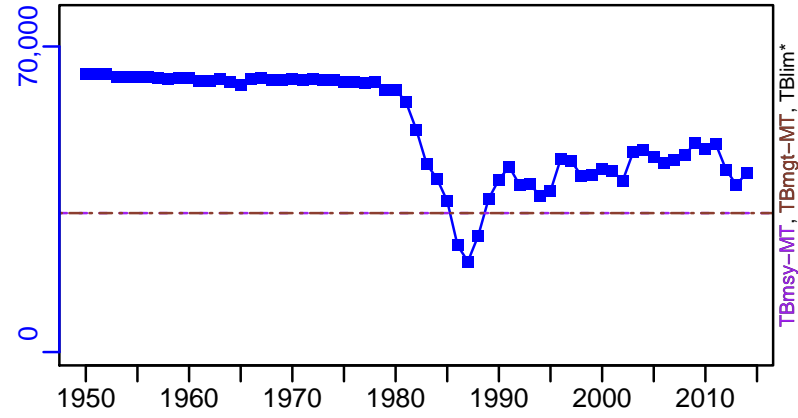


◆ Start Year ◆ End Year \* No Data

# Skipjack tuna Western Atlantic [SKJWATL]

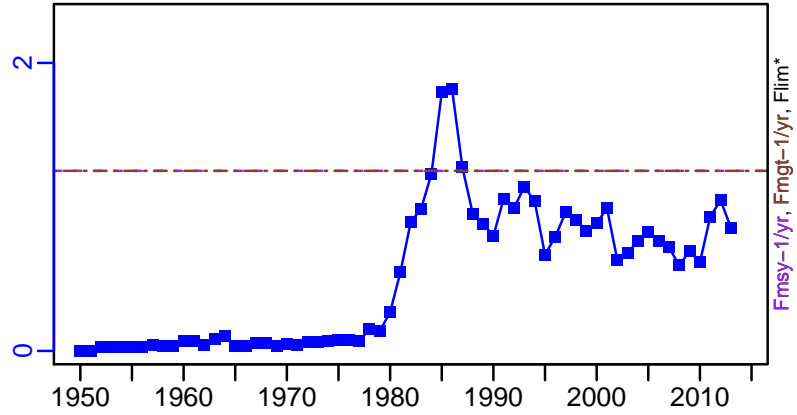
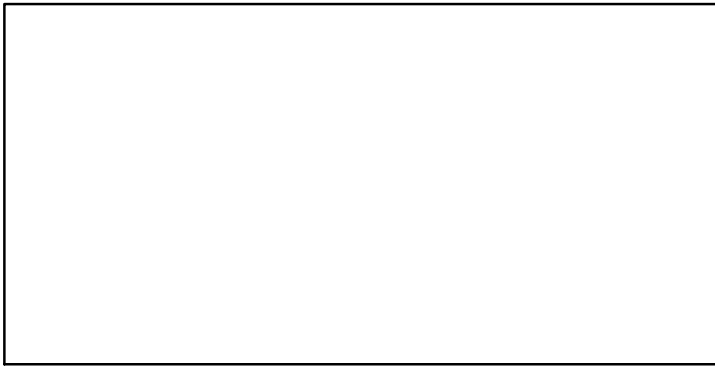
TB-MT (1950–2014–PONS)

SSB\*



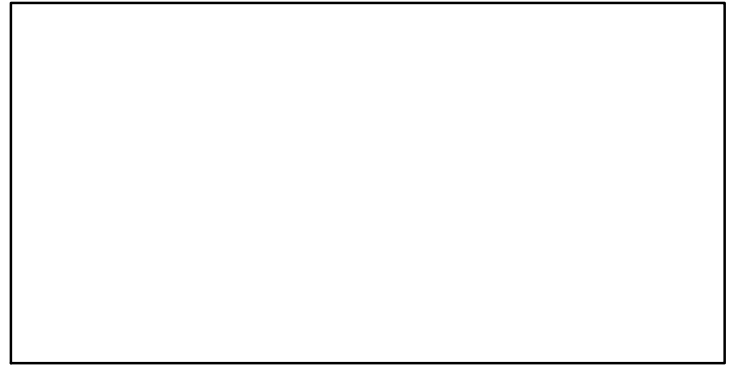
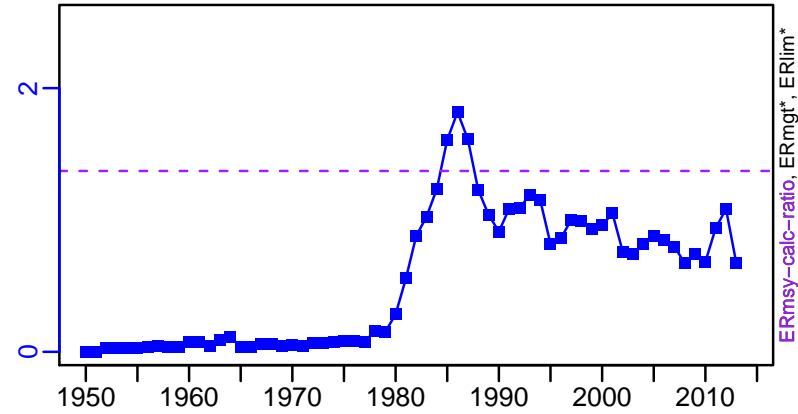
TN \*

F-1/yr (1950–2014–PONS)



ER-calc-ratio (1950–2014–PONS)

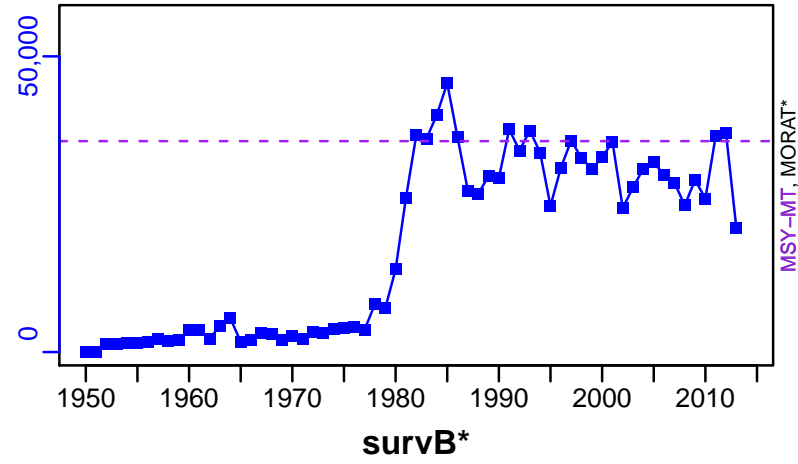
Recruits\*





# Skipjack tuna Western Atlantic [SKJWATL]

TC-MT, TL\*, RecC\* (1950–2014–PONS)



TAC\*, Cpair\*, Cadv\*



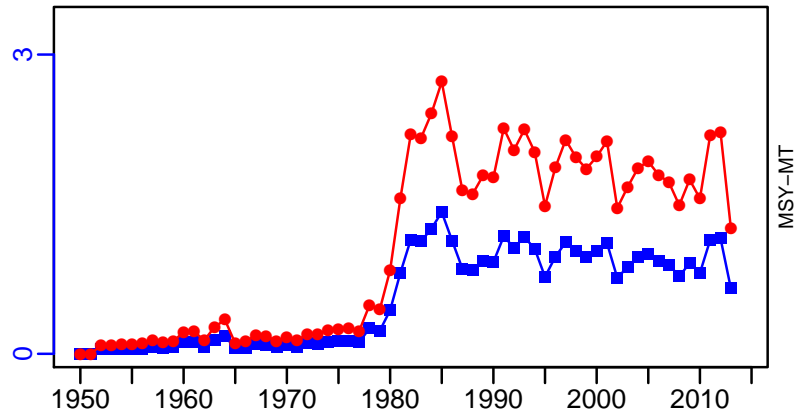
CPUE\*



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]

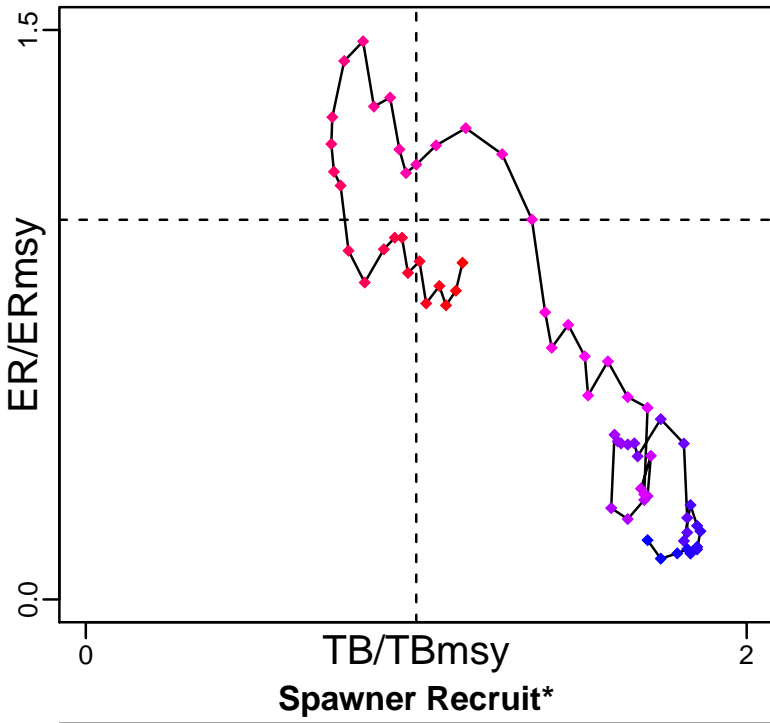
Metadata	
<b>Scientific Name</b>	Xiphias gladius
<b>Current Assess ID</b>	ICCAT-SWORDNATL-1950-2015-PONS
<b>Area</b>	Northern Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic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

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

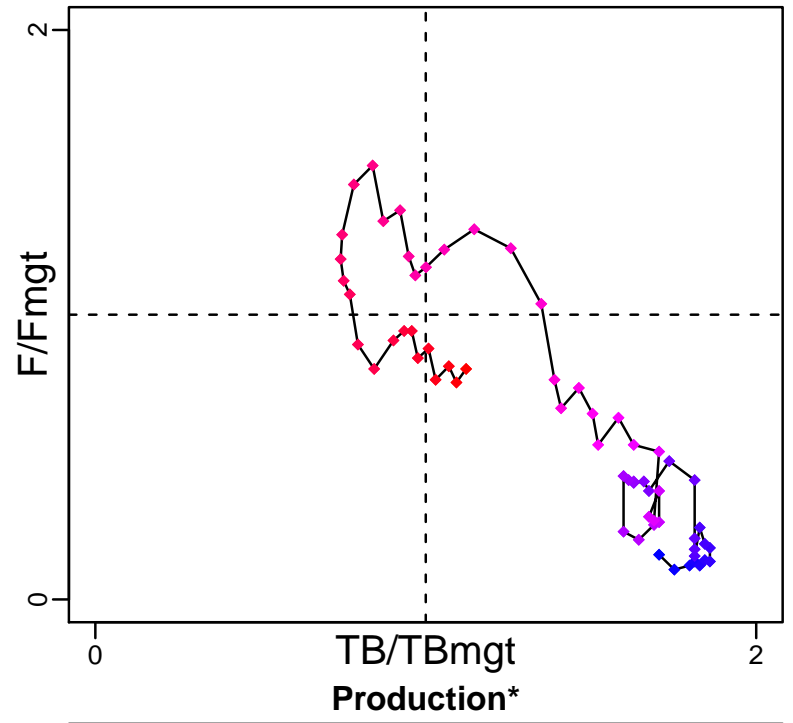
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	73,900	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2015	0.17	-	-
<b>ER</b>	ER-calc-ratio	2015	0.187	-	-
<b>TC</b>	TC-MT	2015	12,000		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless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

# Swordfish Northern Atlantic [SWORDNATL]

Kobe MSYpref (1950–2015–PONS)



Kobe MGTpref (1950–2015–PONS)

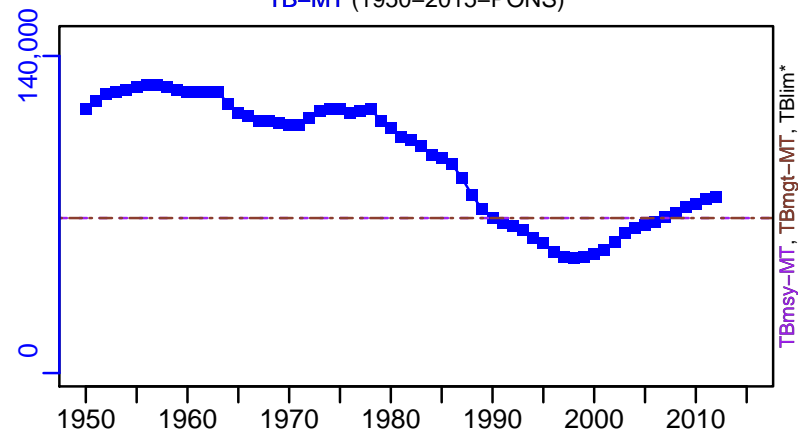


◆ Start Year ◆ End Year \* No Data

# Swordfish Northern Atlantic [SWORDNATL]

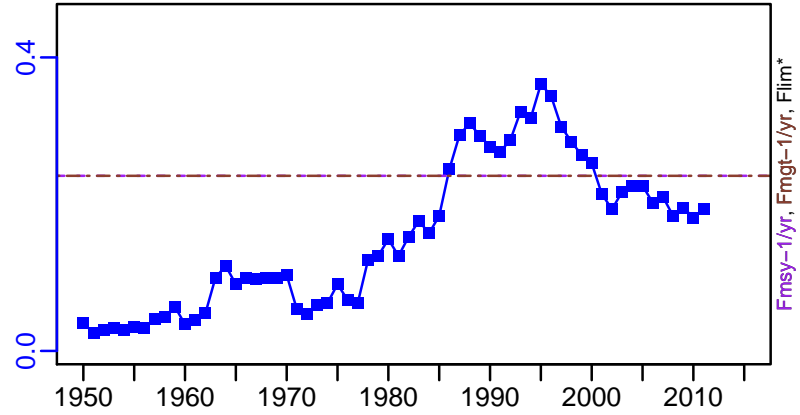
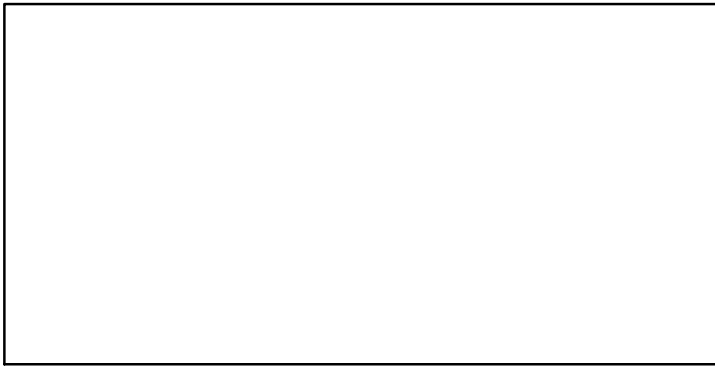
TB-MT (1950-2015-PONS)

SSB\*



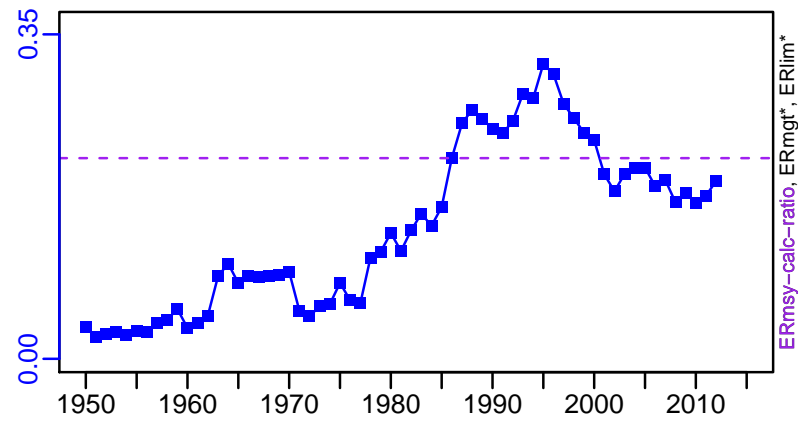
TN \*

F-1/yr (1950-2015-PONS)



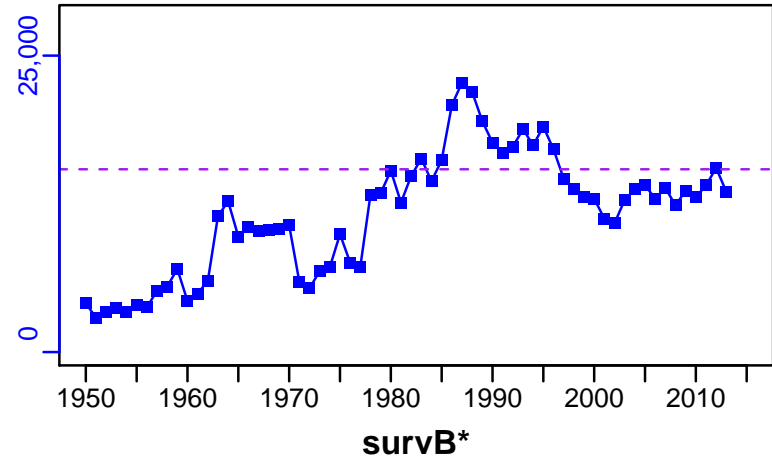
ER-calc-ratio (1950-2015-PONS)

Recruits\*

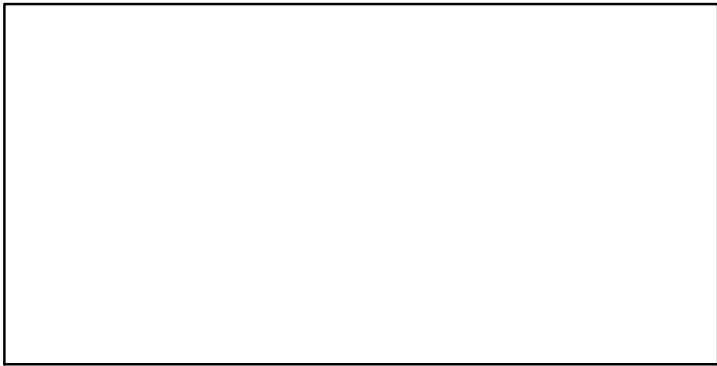
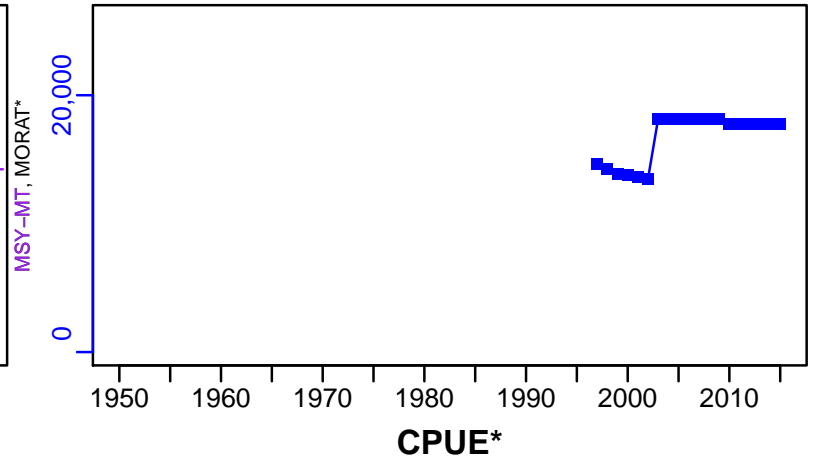


# Swordfish Northern Atlantic [SWORDNATL]

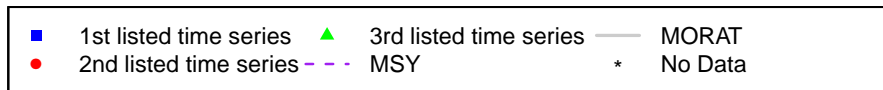
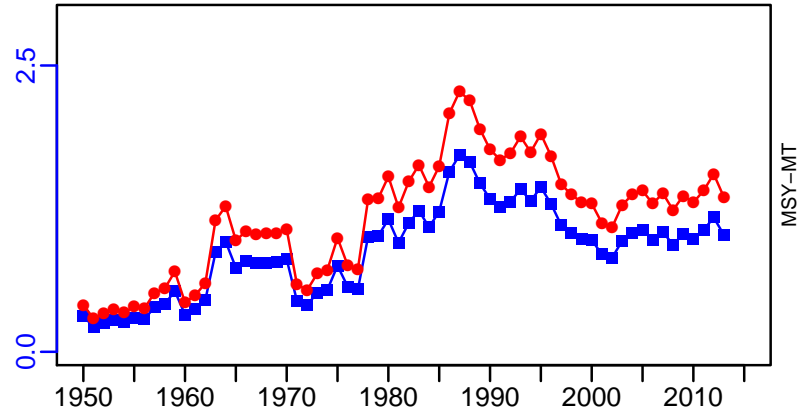
TC-MT, TL\*, RecC\* (1950-2015-PONS)



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



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



## Swordfish South Atlantic [SWORDSATL]

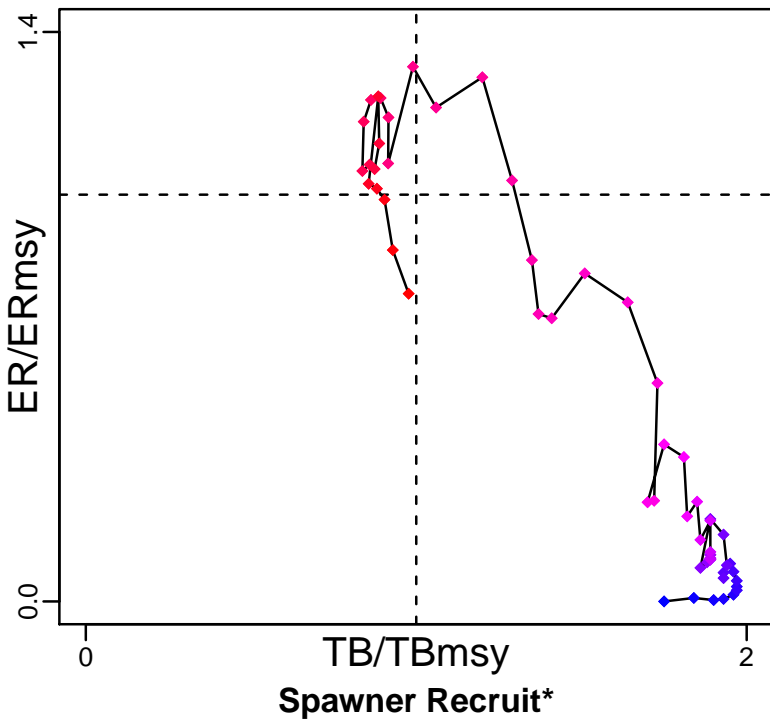
Metadata	
<b>Scientific Name</b>	Xiphias gladius
<b>Current Assess ID</b>	ICCAT-SWORDSATL-1950-2015-PONS
<b>Area</b>	South Atlantic
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic Tunas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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2015	58,360
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2015	0.24
<b>ERmsy</b>	ERmsy-calc-ratio	2015	0.243
<b>TBmgt</b>	TBmgt-MT	2015	58,360
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.24
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2015	14,210
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

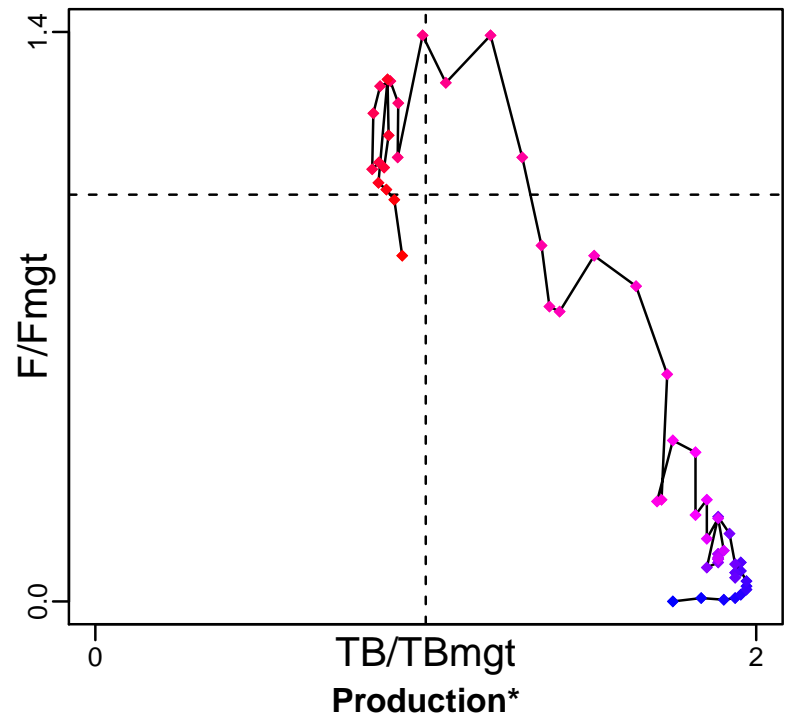
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	57,000	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2015	0.204	-	-
<b>ER</b>	ER-calc-ratio	2015	0.184	-	-
<b>TC</b>	TC-MT	2015	7820		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless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

# Swordfish South Atlantic [SWORDSATL]

Kobe MSYpref (1950–2015–PONS)



Kobe MGTpref (1950–2015–PONS)

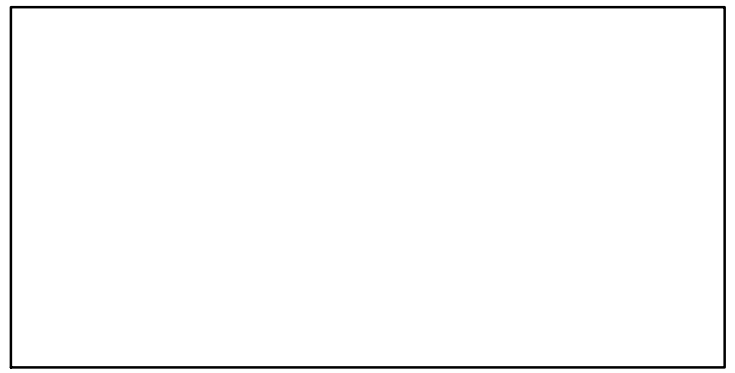
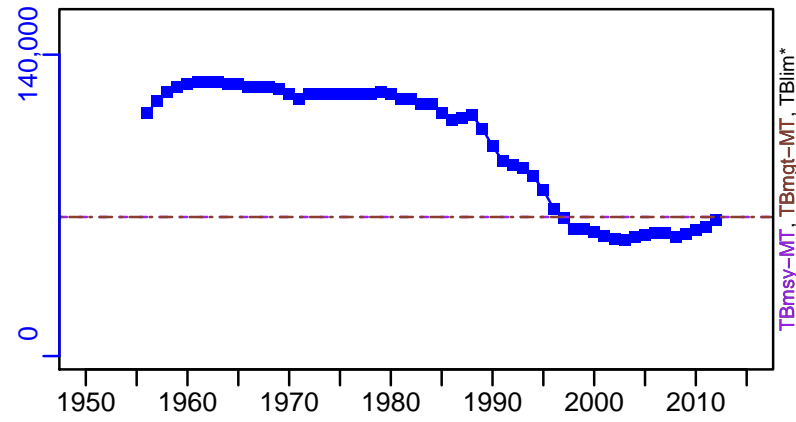


◆ Start Year ◆ End Year \* No Data

# Swordfish South Atlantic [SWORDSATL]

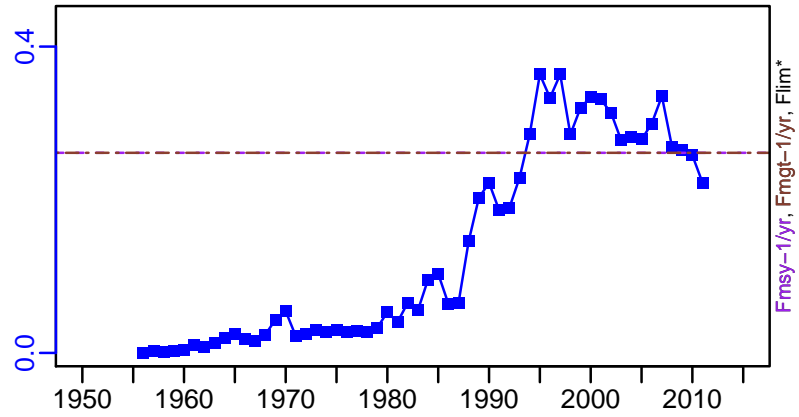
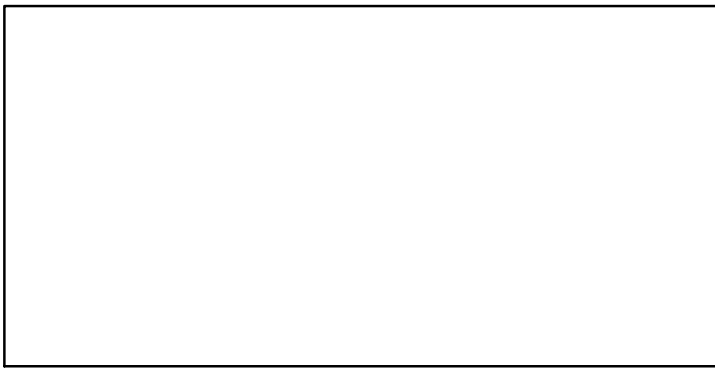
TB-MT (1950-2015-PONS)

SSB\*



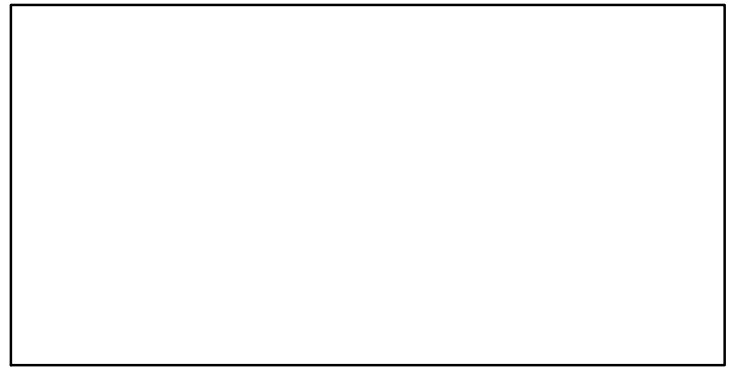
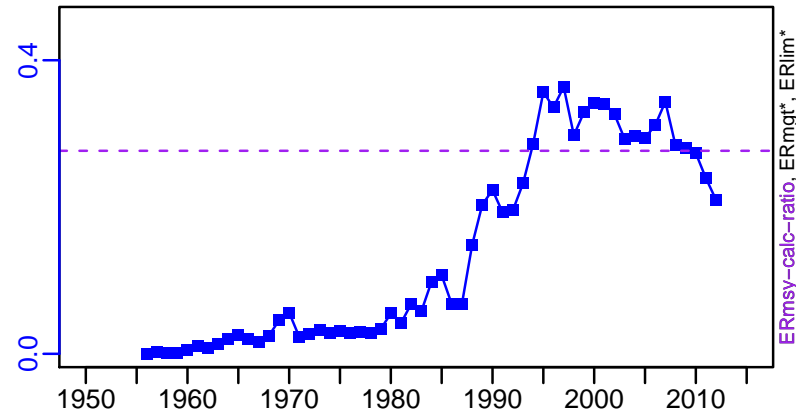
TN \*

F-1/yr (1950-2015-PONS)



ER-calc-ratio (1950-2015-PONS)

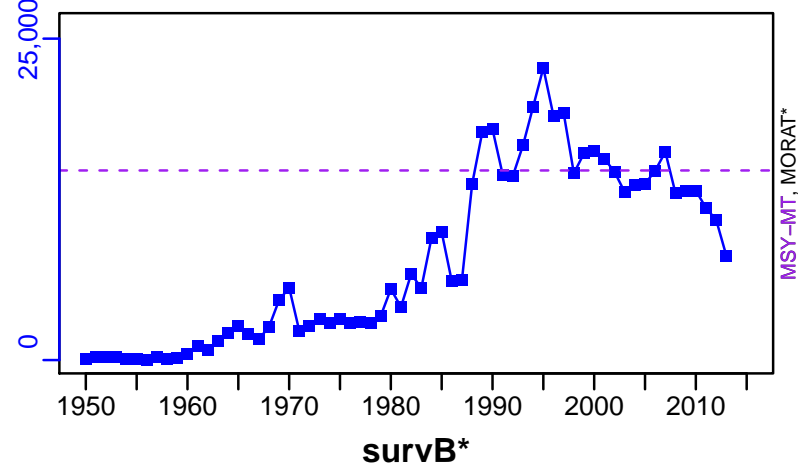
Recruits\*



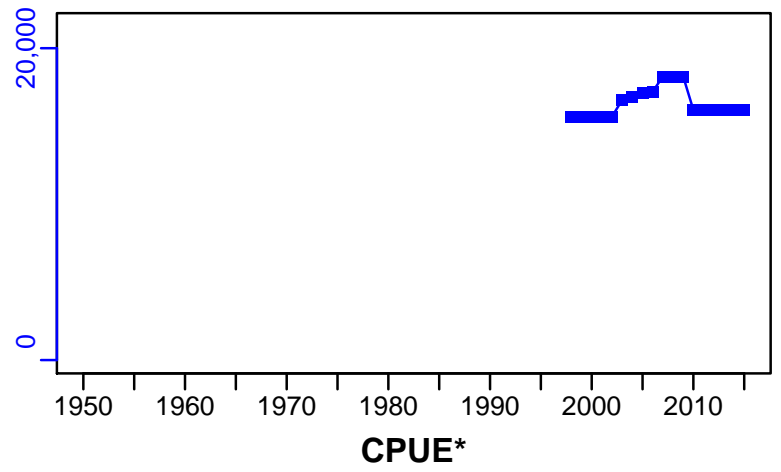


# Swordfish South Atlantic [SWORDSATL]

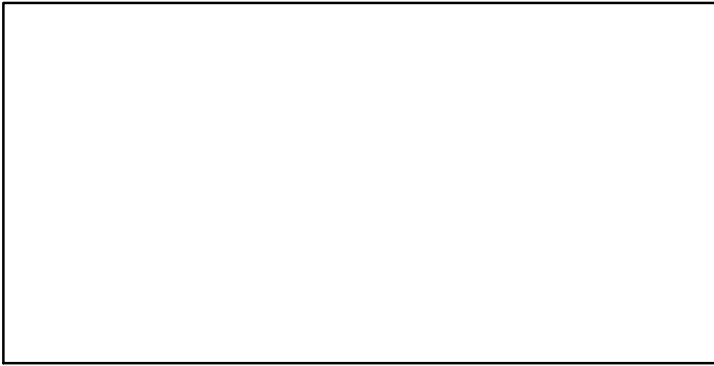
TC-MT, TL\*, RecC\* (1950–2015–PONS)



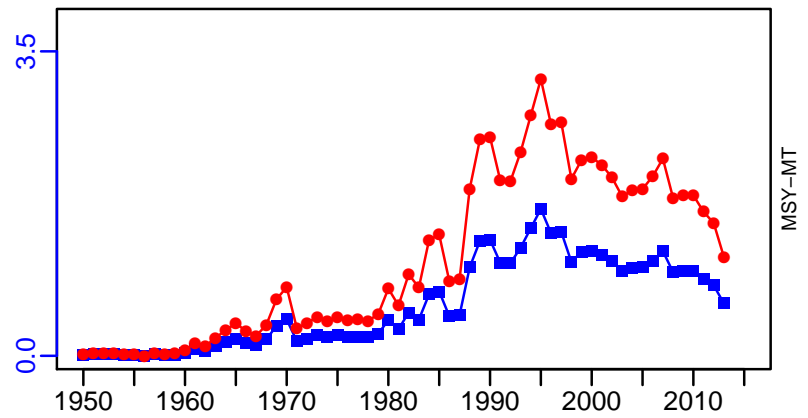
TAC-MT, Cpair\*, Cadv\* (1950–2015–PONS)



**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]

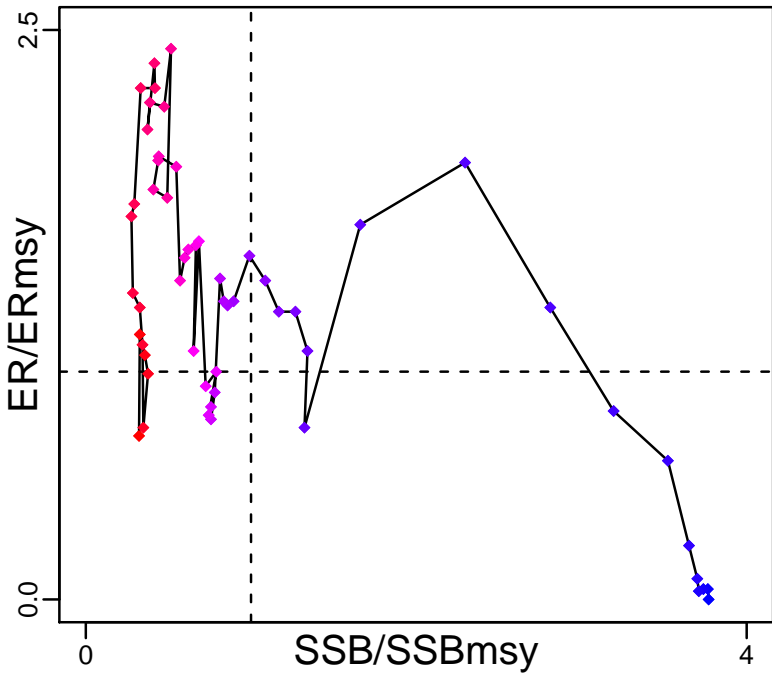
Metadata	
<b>Scientific Name</b>	Tetrapturus albidus
<b>Current Assess ID</b>	ICCAT-WMARLINATL-1956-2011-CHING
<b>Area</b>	Atlantic Ocean
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic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

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

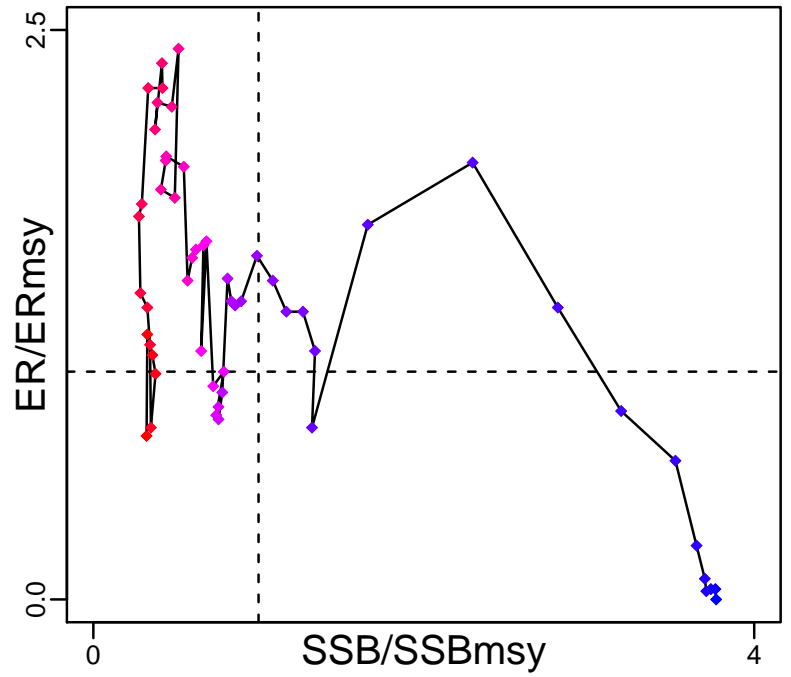
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	8310	-	-
<b>SSB</b>	SSB-MT	2011	706	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	85,200	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2011	0.079	-	-
<b>TC</b>	TC-MT	2011	434		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless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

# White marlin Atlantic Ocean [WMARLINATL]

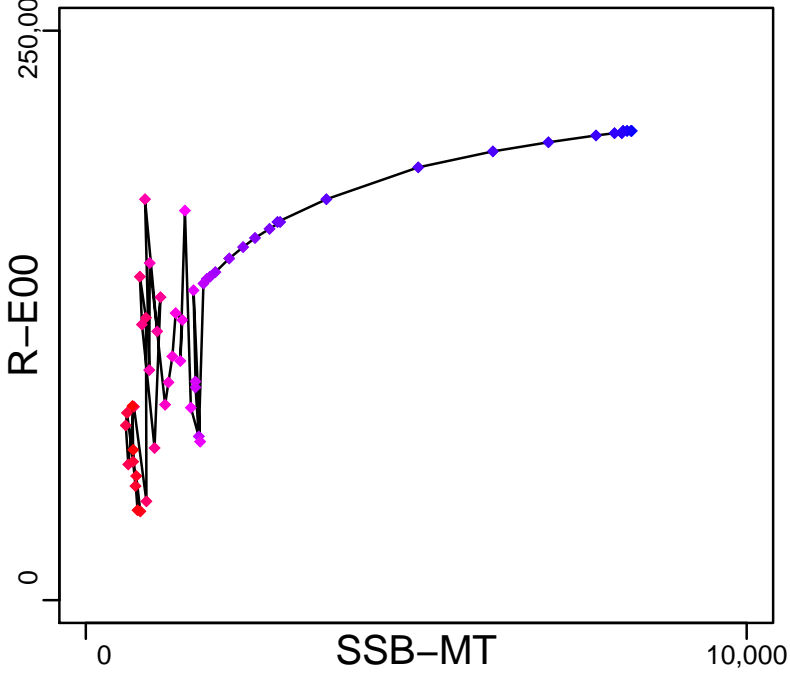
Kobe MSYpref (1956–2011–CHING)



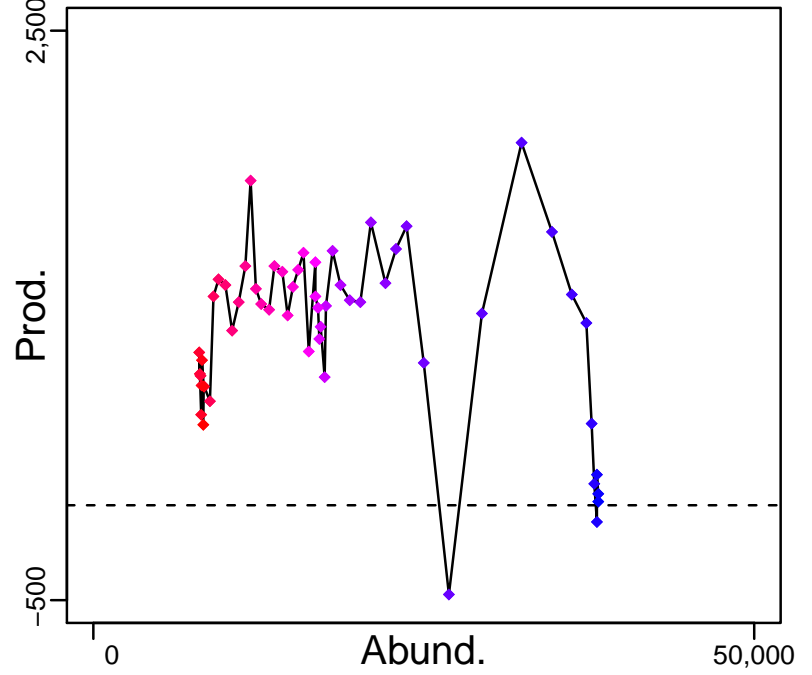
Kobe MGTpref (1956–2011–CHING)



Spawner Recruit (1956–2011–CHING)



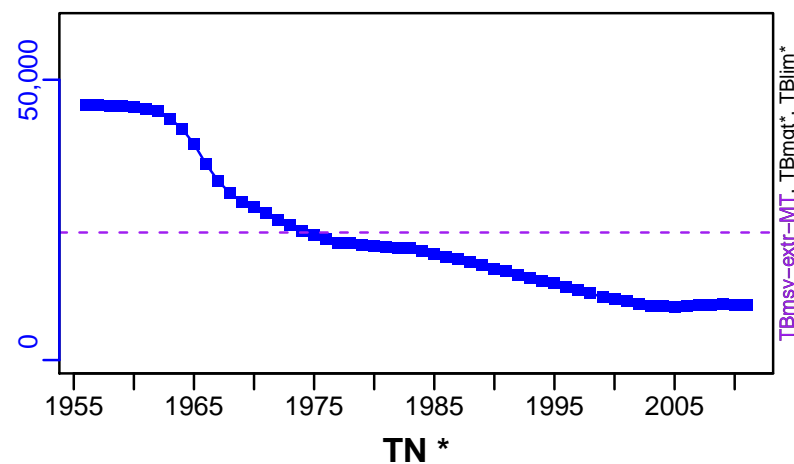
Production (1956–2011–CHING)



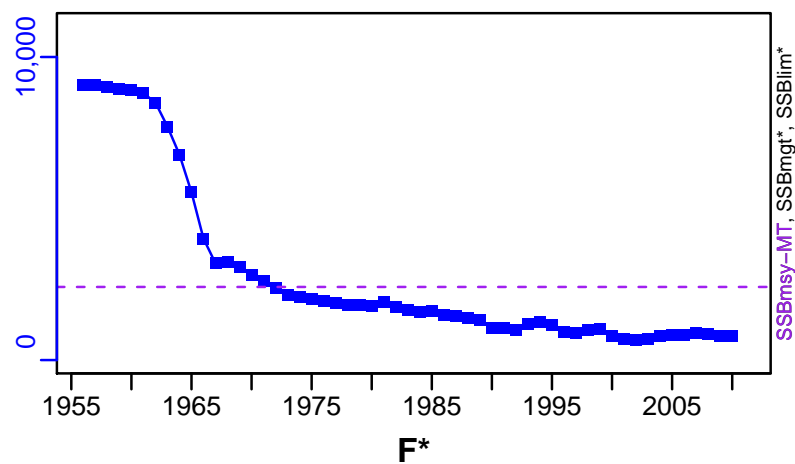
◆ Start Year ◆ End Year \* No Data

# White marlin Atlantic Ocean [WMARLINATL]

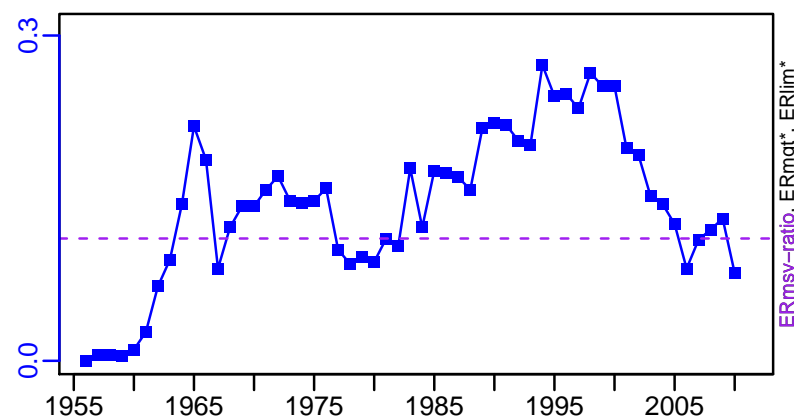
TB-MT (1956-2011-CHING)



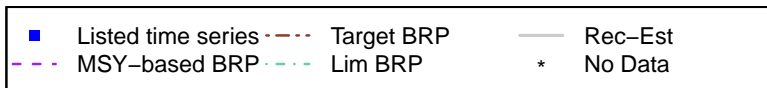
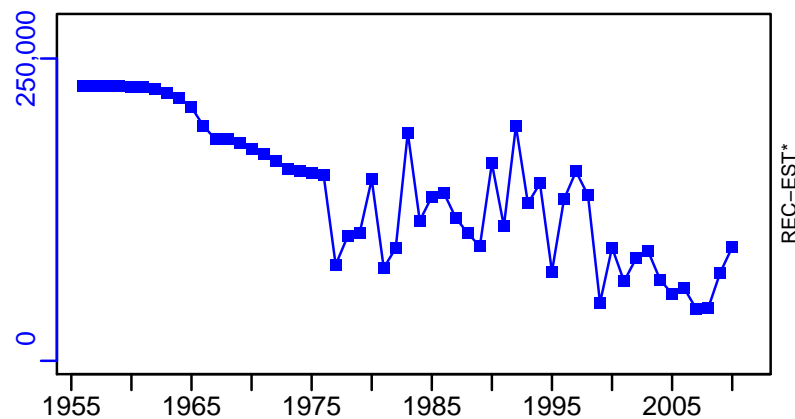
SSB-MT (1956-2011-CHING)



ER-ratio (1956-2011-CHING)

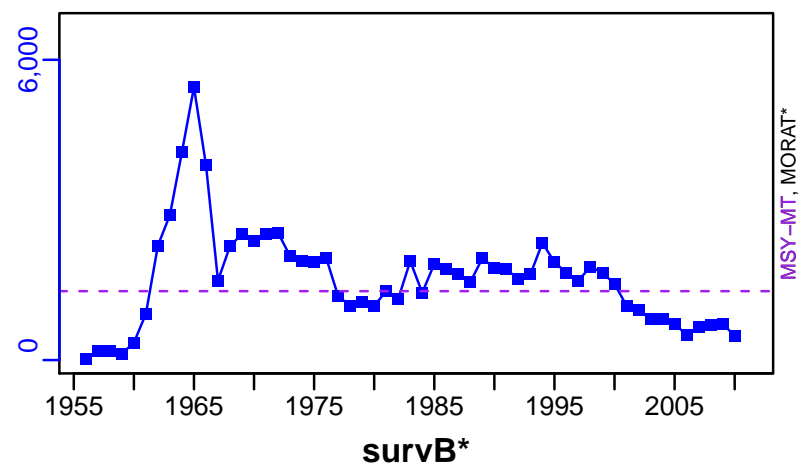


R-E00 (1956-2011-CHING)

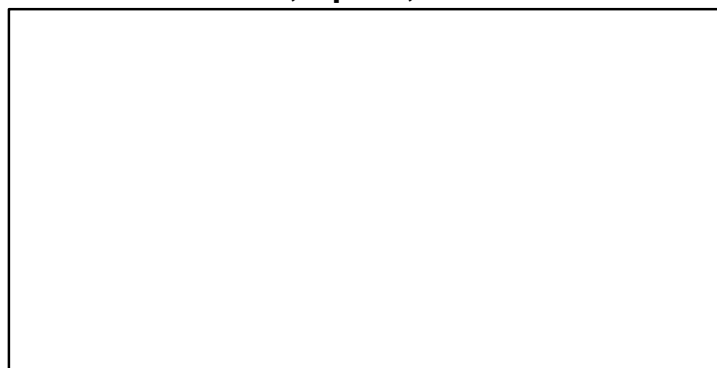


# White marlin Atlantic Ocean [WMARLINATL]

TC-MT, TL\*, RecC\* (1956–2011–CHING)



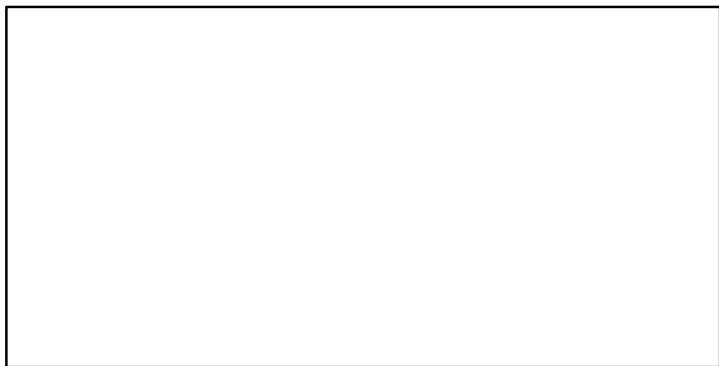
TAC\*, Cpair\*, Cadv\*



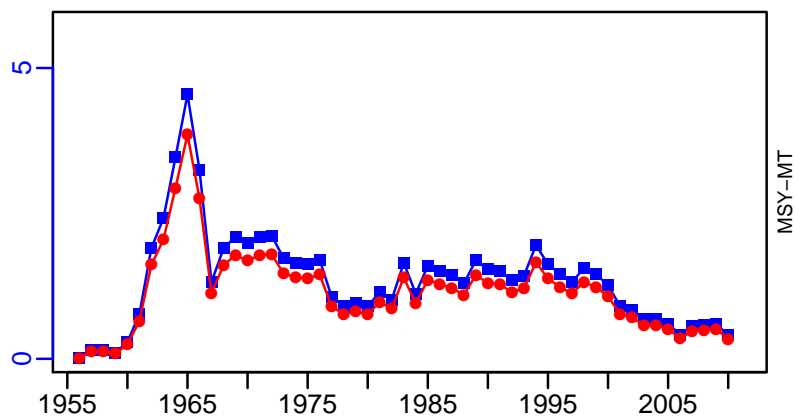
CPUE\*



EFFORT\*



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



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

## Yellowfin tuna Atlantic Ocean [YFINATL]

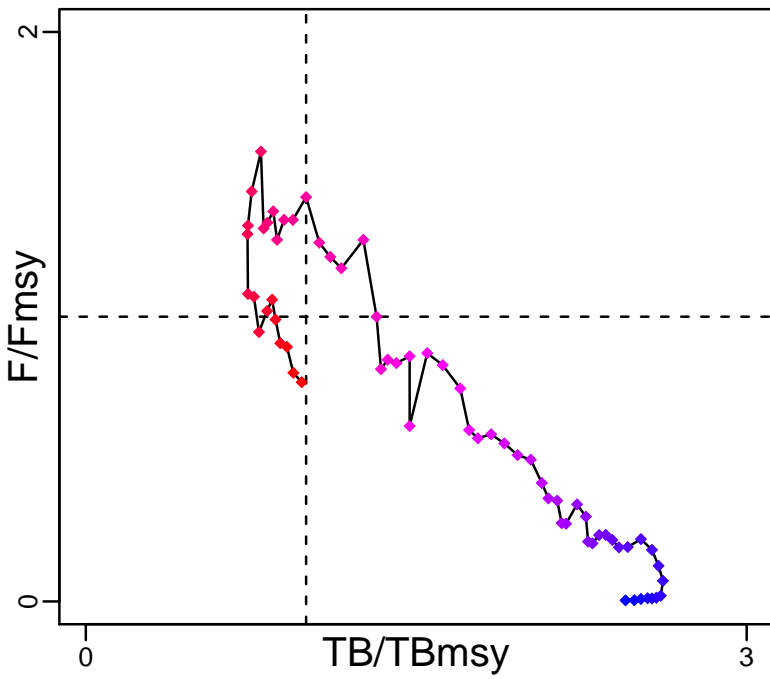
Metadata	
<b>Scientific Name</b>	Thunnus albacares
<b>Current Assess ID</b>	ICCAT-YFINATL-1950-2016-PONS
<b>Area</b>	Atlantic Ocean
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic Tunas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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-extr-MT	2016	740,132
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-extr-1/yr	2016	0.17
<b>ERmsy</b>	ERmsy-calc-ratio	2011	0.257
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2011	144,600
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

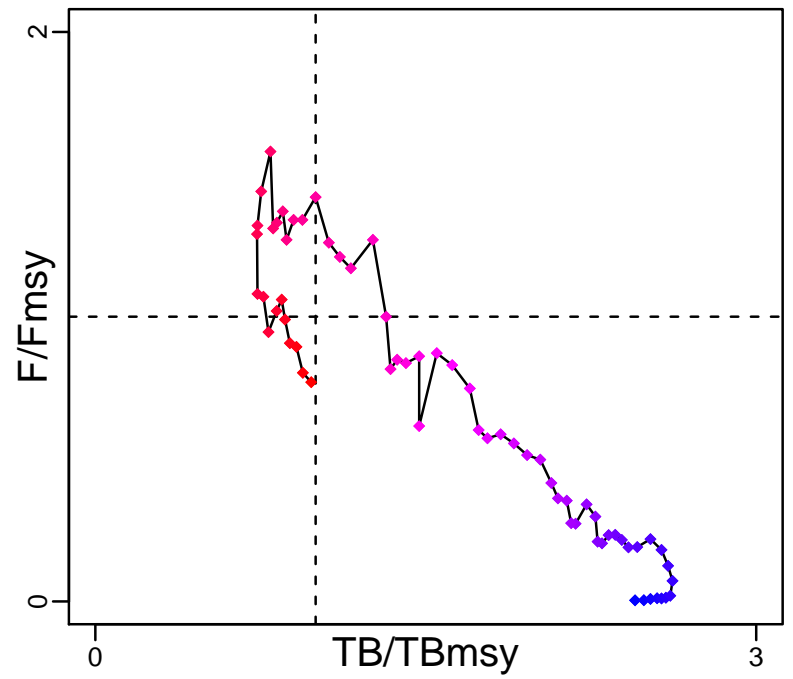
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	725,000	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2016	0.131	-	-
<b>ER</b>	ER-calc-ratio	2016	0.134	-	-
<b>TC</b>	TC-MT	2011	108,000		
<b>TL</b>	TL-MT	2016	128,000		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless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

# Yellowfin tuna Atlantic Ocean [YFINATL]

Kobe MSYpref (1950–2016–PONS)

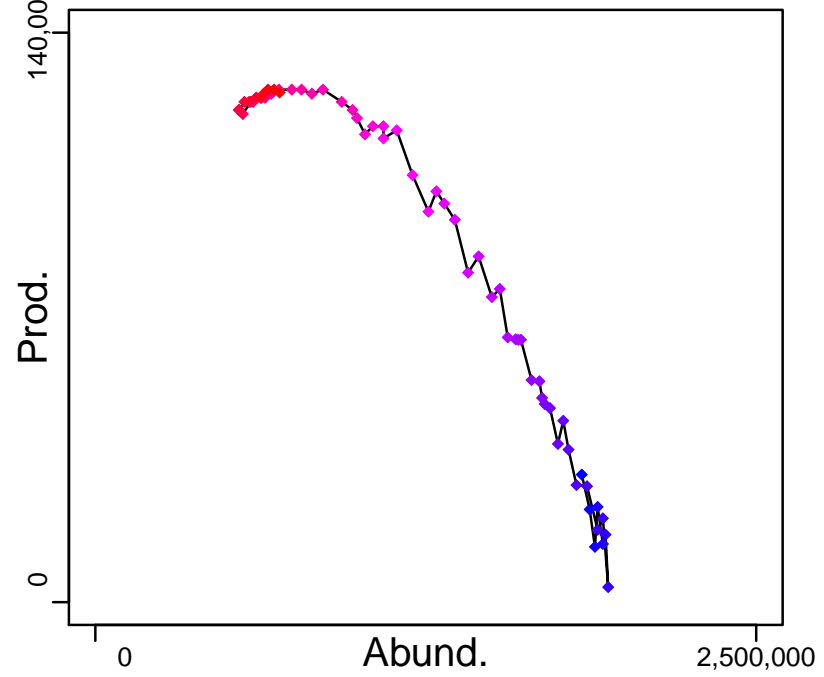


Kobe MGTpref (1950–2016–PONS)



Spawner Recruit\*

Production (1950–2016–PONS)

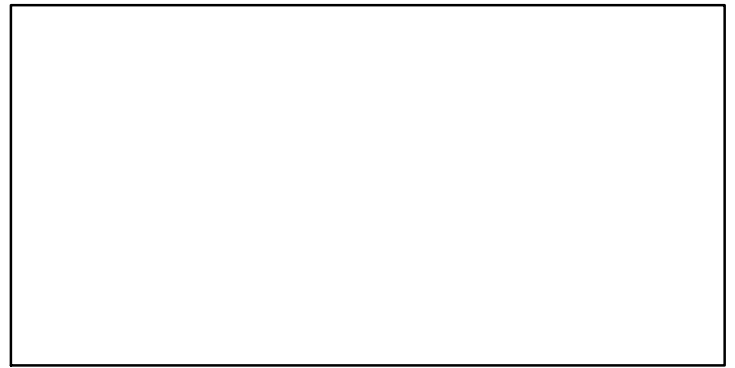
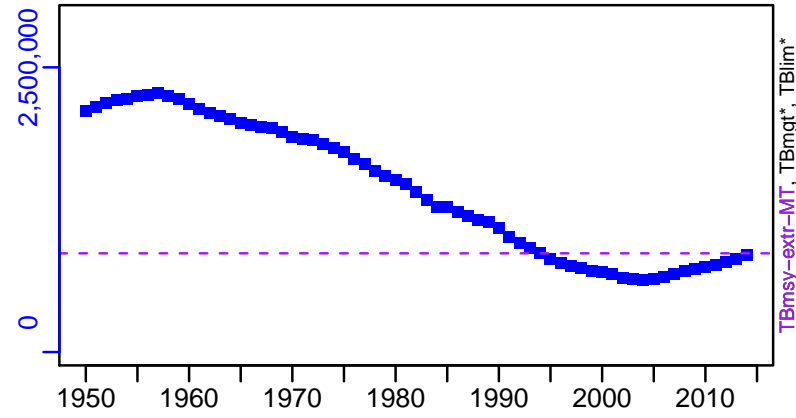


◆ Start Year ◆ End Year \* No Data

# Yellowfin tuna Atlantic Ocean [YFINATL]

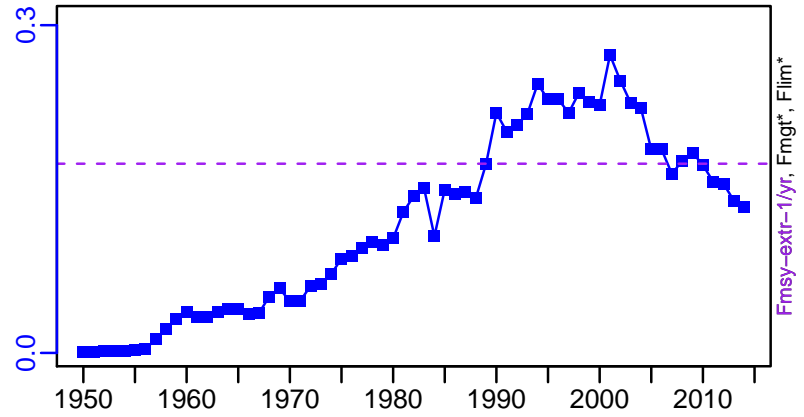
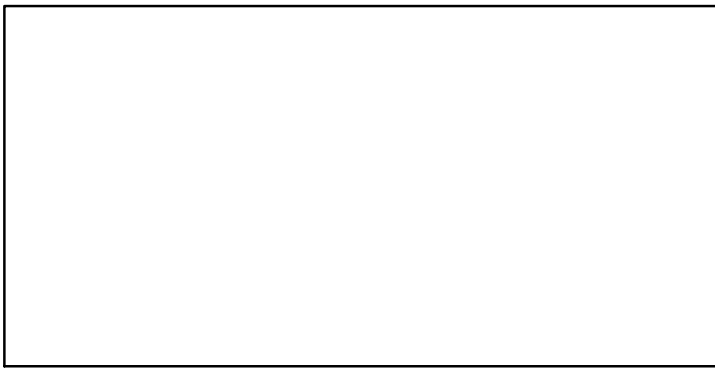
TB-MT (1950–2016–PONS)

SSB\*



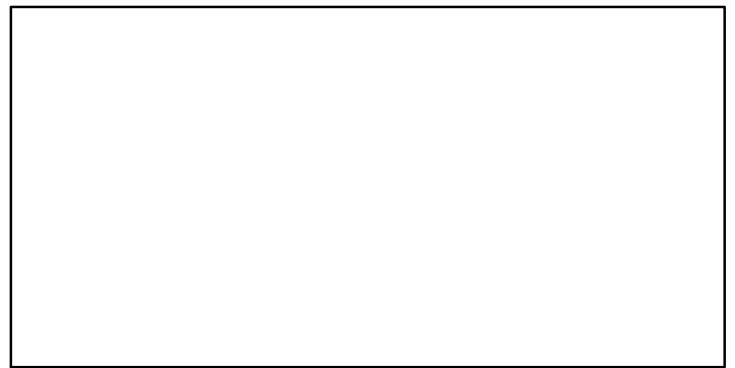
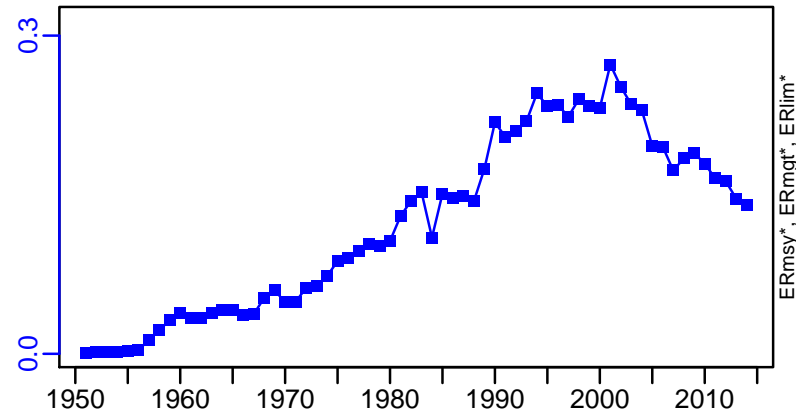
TN \*

F-1/yr (1950–2016–PONS)



ER-calc-ratio (1950–2016–PONS)

Recruits\*

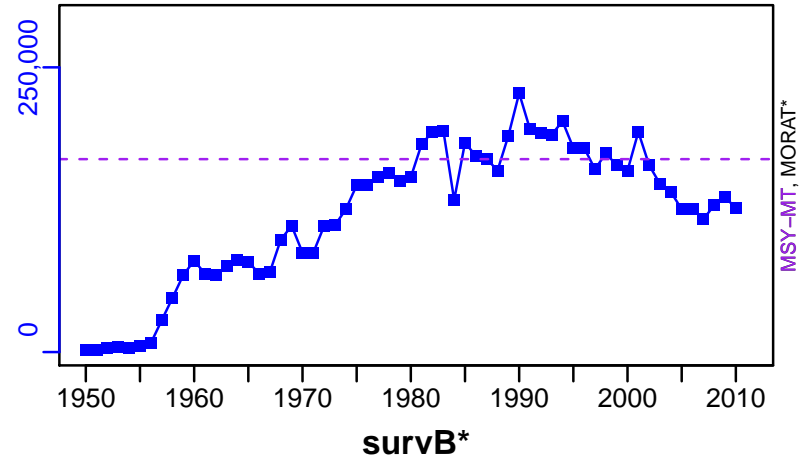




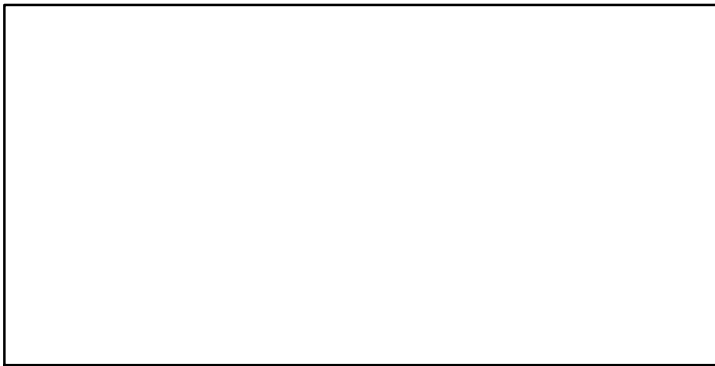
# Yellowfin tuna Atlantic Ocean [YFINATL]

TC-MT, TL\*, RecC\* (1950-2011-CHING)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



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

