

# **Indian Ocean Stocks**

## **v4.25 (Jan-28-2018)**

1. Albacore tuna Indian Ocean [ALBAIO]
2. Bigeye tuna Indian Ocean [BIGEYEIO]
3. Black marlin Indian Ocean [BLKMARLINIO]
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5. Southern bluefin tuna Southern Oceans [SBT]
6. Skipjack tuna Indian Ocean [SKJCIO]
7. Striped marlin Indian Ocean [STMARLINIO]
8. Swordfish Indian Ocean [SWORDIO]
9. Yellowfin tuna Indian Ocean [YFINEIO]

## Albacore tuna Indian Ocean [ALBAIO]

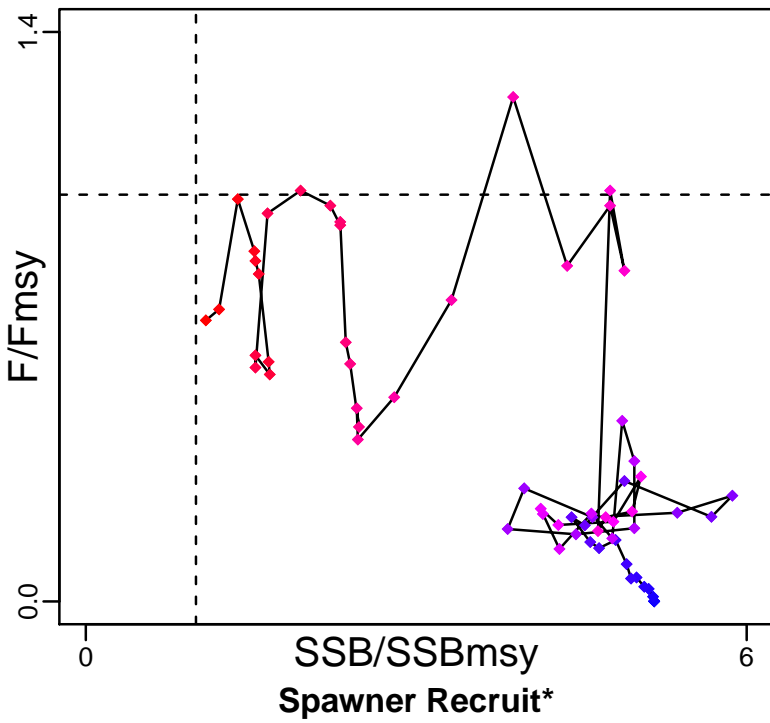
Metadata	
<b>Scientific Name</b>	Thunnus alalunga
<b>Current Assess ID</b>	IOTC-ALBAIO-1950-2014-PONS
<b>Area</b>	Indian Ocean
<b>Management Authority</b>	Indian Ocean Tuna Commission
<b>Assessor</b>	Indian Ocean Tuna Commission
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2014	45,281
<b>Fmsy</b>	Fmsy-1/yr	2014	0.06
<b>ERmsy</b>	ERmsy-conv-ratio	2014	0.09
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2014	187,325
<b>MSY</b>	MSY-MT	2014	40,569
<b>M</b>	M-1/yr	2014	0.3
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

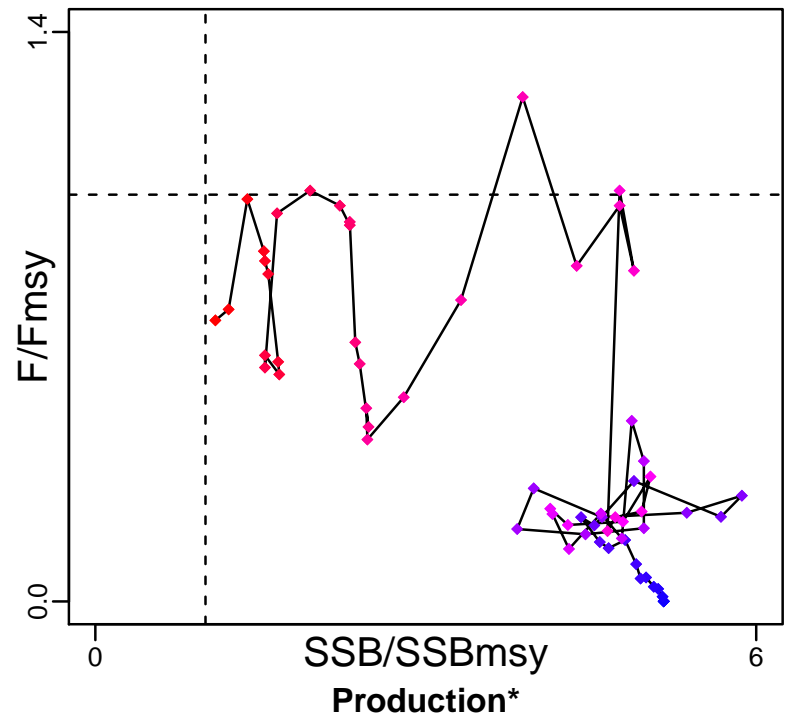
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2014	36,700		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSBdivSSBmsy-dimensionless	2014	1.09		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2014	0.69		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Albacore tuna Indian Ocean [ALBAIO]

Kobe MSYpref (1950–2014–PONS)



Kobe MGTpref (1950–2014–PONS)



◆ Start Year ◆ End Year \* No Data

Albacore tuna Indian Ocean [ALBAIO]

TB\*



SSB\*



TN \*



F\*



ER\*



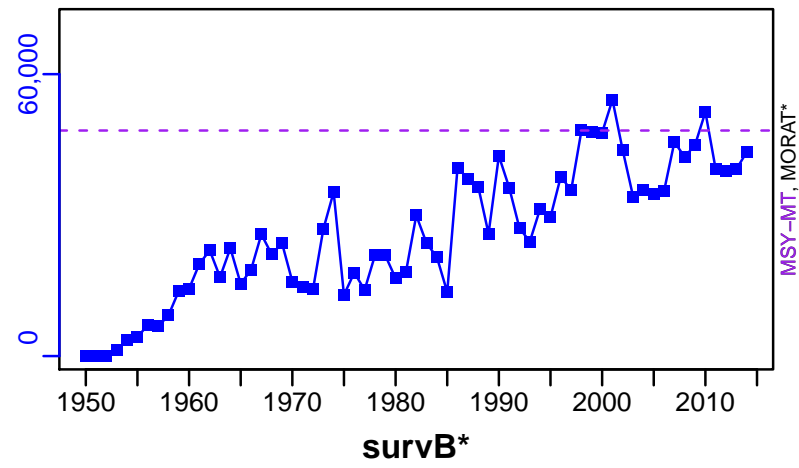
Recruits\*



# Albacore tuna Indian Ocean [ALBAIO]

TL-MT, TC\*, RecC\* (1950-2014-PONS)

TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

## Bigeye tuna Indian Ocean [BIGEYEIO]

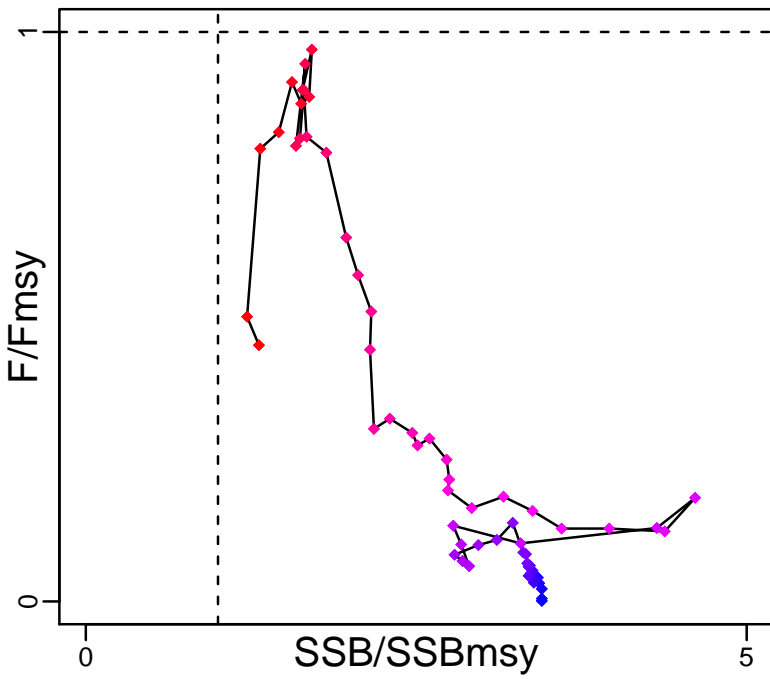
Metadata	
<b>Scientific Name</b>	Thunnus obesus
<b>Current Assess ID</b>	IOTC-BIGEYEIO-1950-2014-PONS
<b>Area</b>	Indian Ocean
<b>Management Authority</b>	Indian Ocean Tuna Commission
<b>Assessor</b>	Indian Ocean Tuna Commission
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2014	464,949
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-conv-ratio	2014	0.15
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2014	1,674,570
<b>MSY</b>	MSY-MT	2014	187,596
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

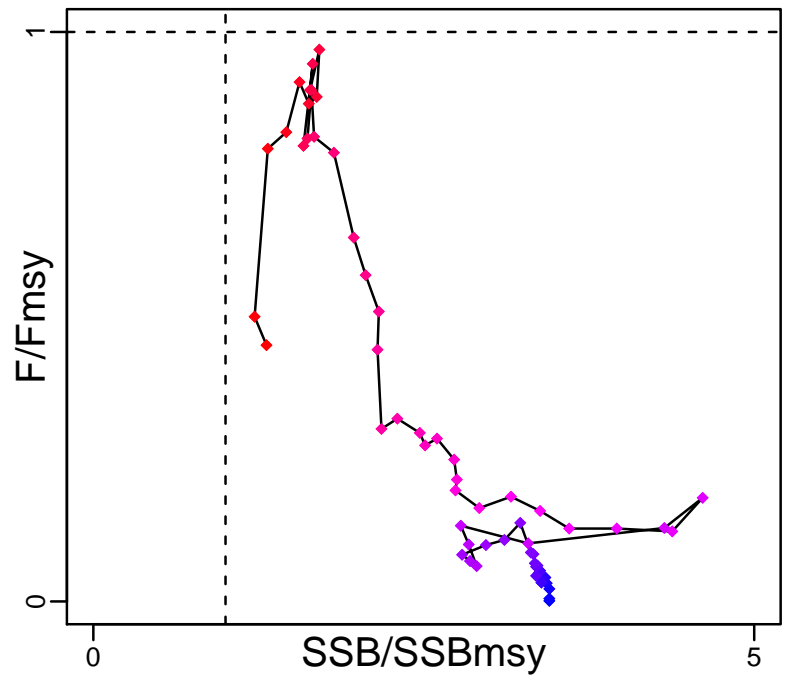
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	607,000	Females	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	108,000	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2014	0.05	-	-
<b>TC</b>	TC-MT	2014	105,000		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSBdivSSBmsy-dimensionless	2014	1.31		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2014	0.45		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-conv-ratio	2014	0.38		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Bigeye tuna Indian Ocean [BIGEYEIO]

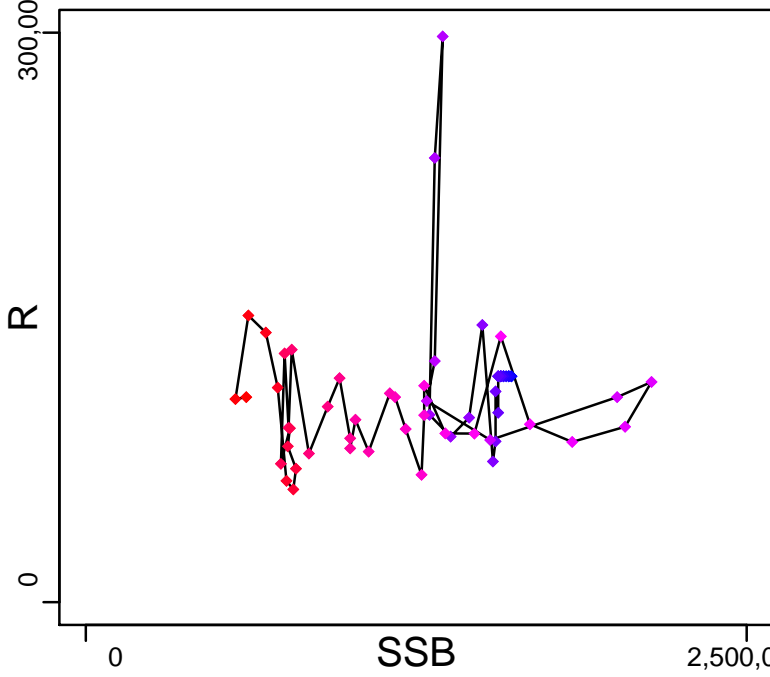
Kobe MSYpref (1950–2014–PONS)



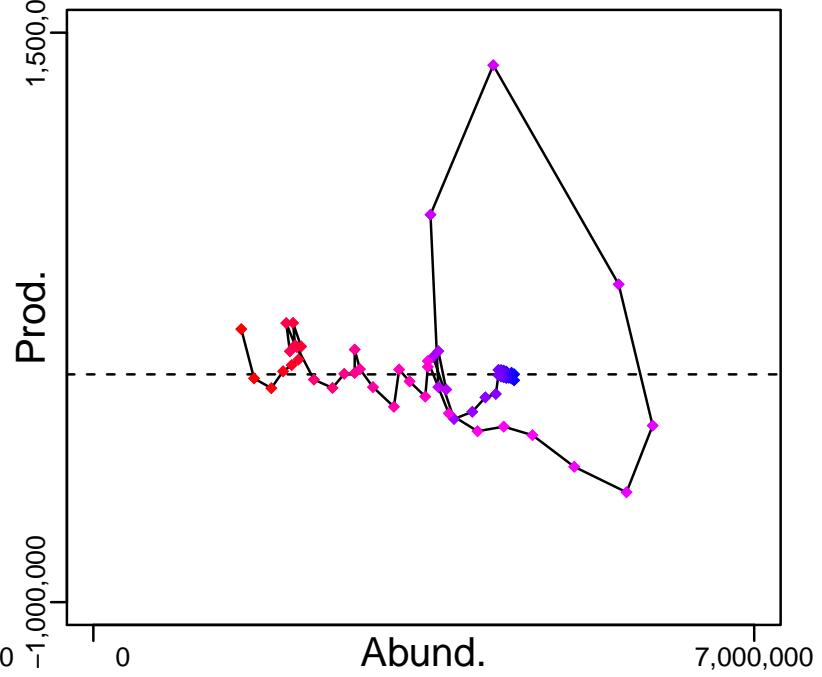
Kobe MGTpref (1950–2014–PONS)



Spawner Recruit (1950–2014–PONS)



Production (1950–2014–PONS)



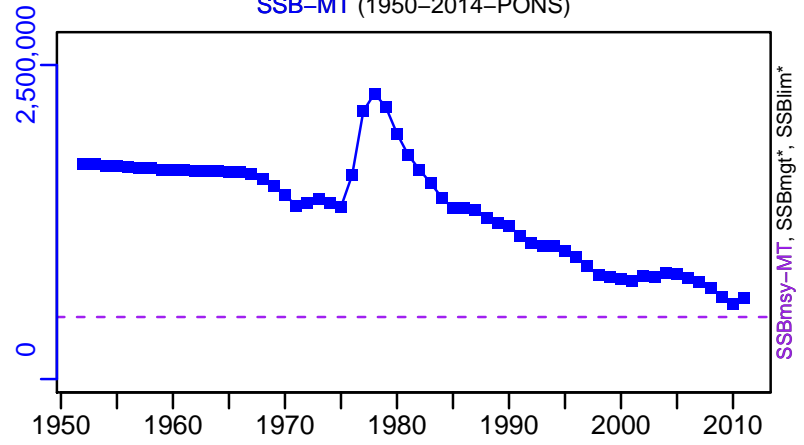
◆ Start Year ◆ End Year \* No Data

# Bigeye tuna Indian Ocean [BIGEYEIO]

TB\*



SSB-MT (1950–2014–PONS)



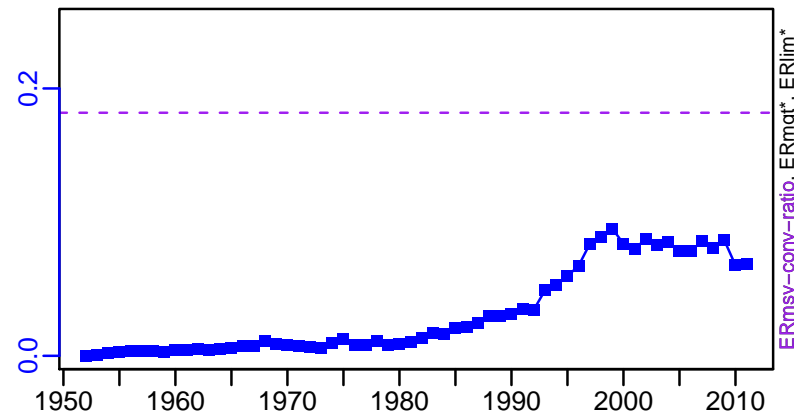
TN \*



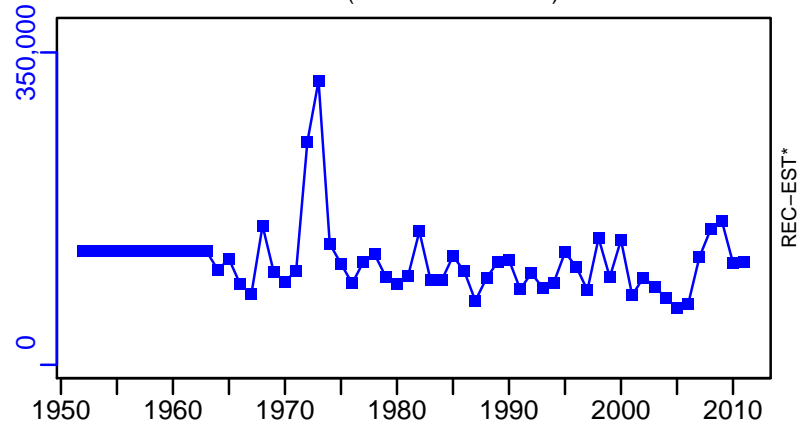
F\*



ER-calc-ratio (1950–2014–PONS)



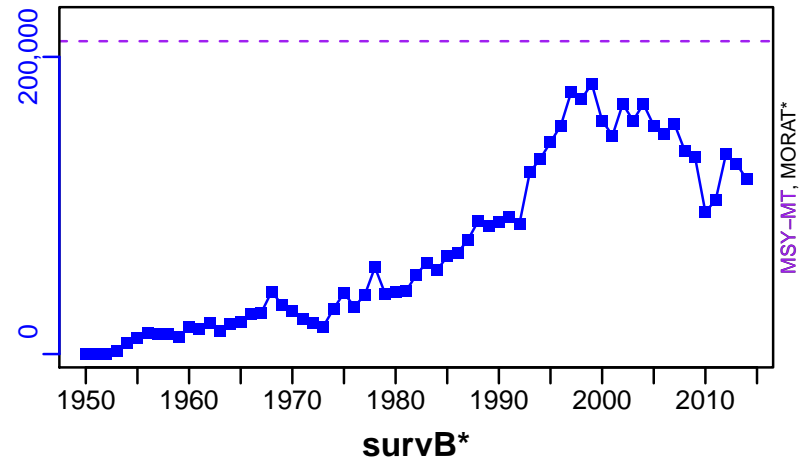
R-E00 (1950–2014–PONS)





Bigeye tuna Indian Ocean [BIGEYEIO]

TC-MT, TL\*, RecC\* (1950-2014-PONS)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

## Black marlin Indian Ocean [BLKMARLINIO]

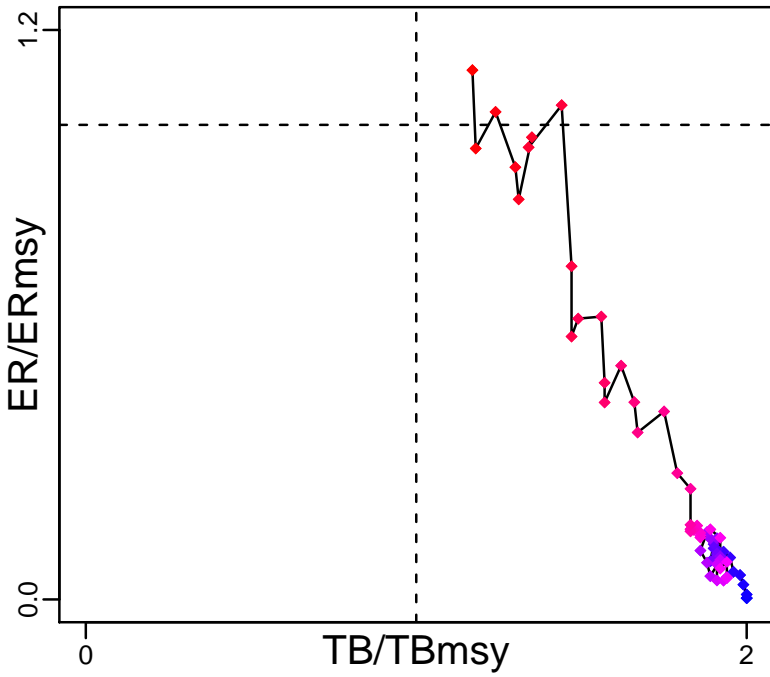
Metadata	
<b>Scientific Name</b>	Istiompax indica
<b>Current Assess ID</b>	IOTC-BLKMARLINIO-1950-2014-PONS
<b>Area</b>	Indian Ocean
<b>Management Authority</b>	Indian Ocean Tuna Commission
<b>Assessor</b>	Indian Ocean Tuna Commission
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2014	29,735
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-calc-ratio	2014	0.29
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2014	73,000
SSB0	-	-	-
MSY	MSY-MT	2014	8605
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

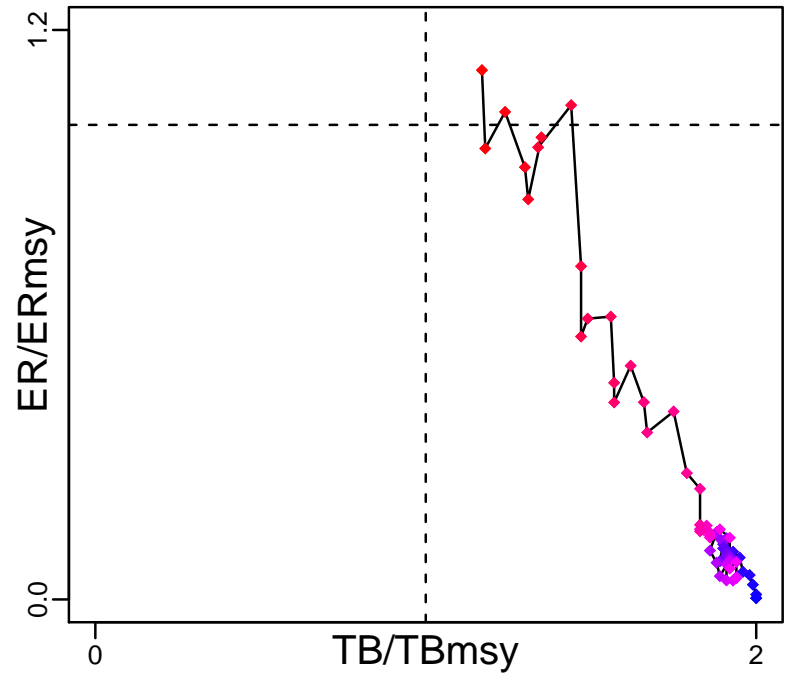
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	34,700	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.32	-	-
TC	TC-MT	2014	17,700		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2014	1.17		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2014	1.03		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2014	1.12		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

# Black marlin Indian Ocean [BLKMARLINIO]

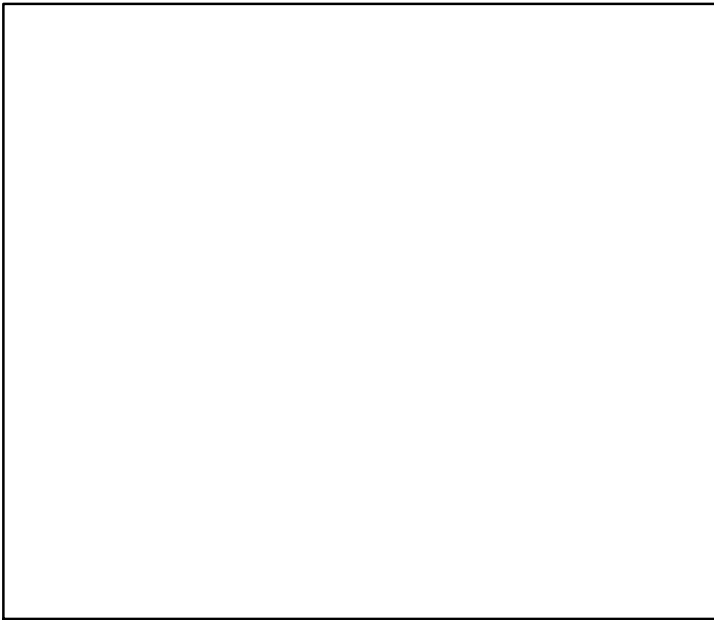
Kobe MSY<sub>pref</sub> (1950–2014–PONS)



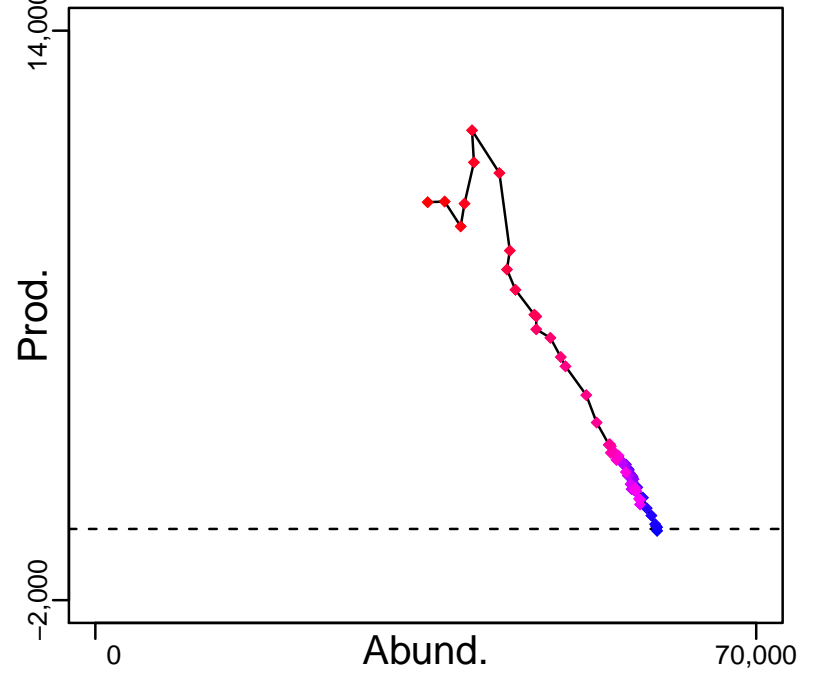
Kobe MGT<sub>pref</sub> (1950–2014–PONS)



Spawner Recruit\*



Production (1950–2014–PONS)

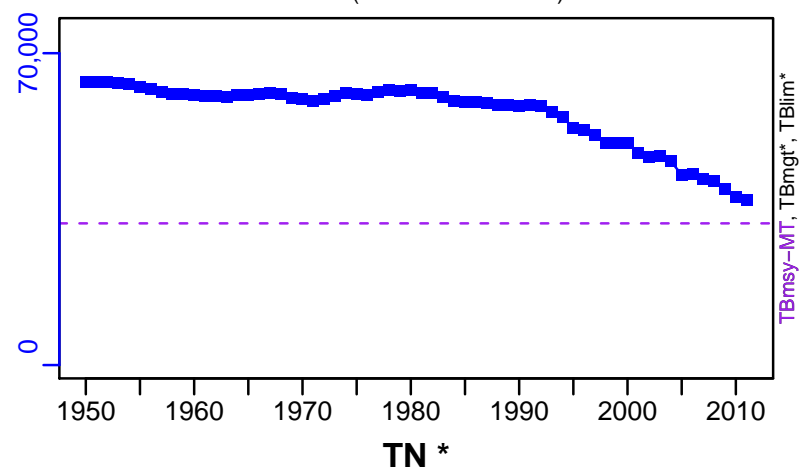


◆ Start Year ◆ End Year \* No Data

# Black marlin Indian Ocean [BLKMARLINIO]

TB-MT (1950-2014-PONS)

SSB\*



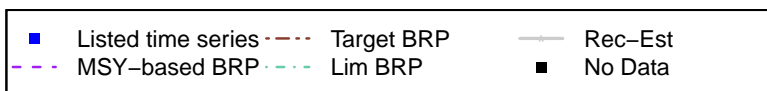
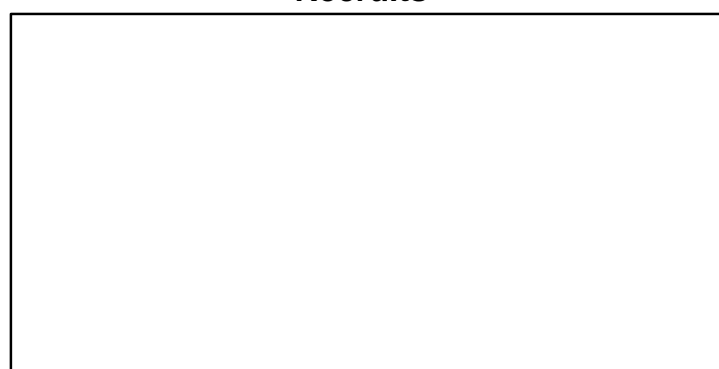
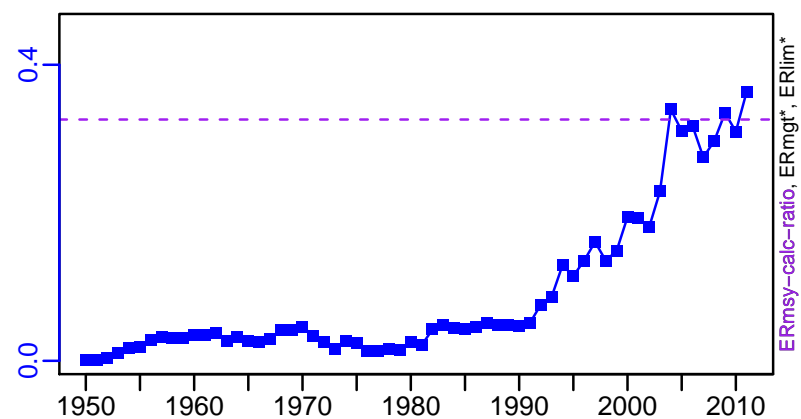
TN \*

F\*



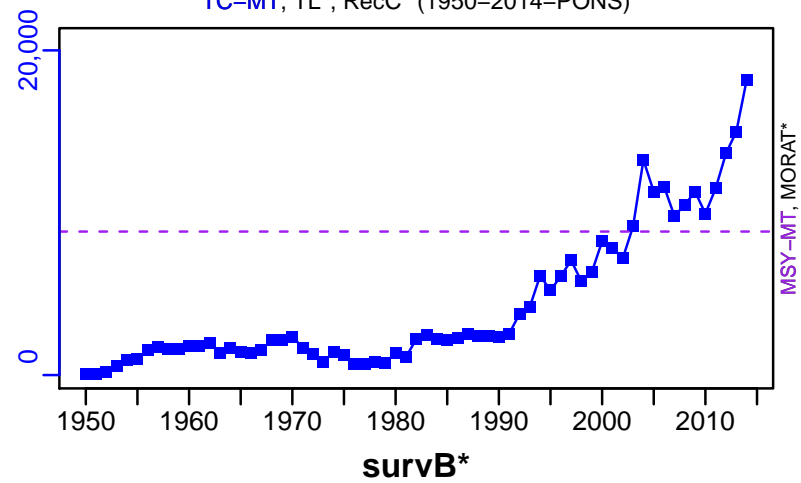
ER-calc-ratio (1950-2014-PONS)

Recruits\*

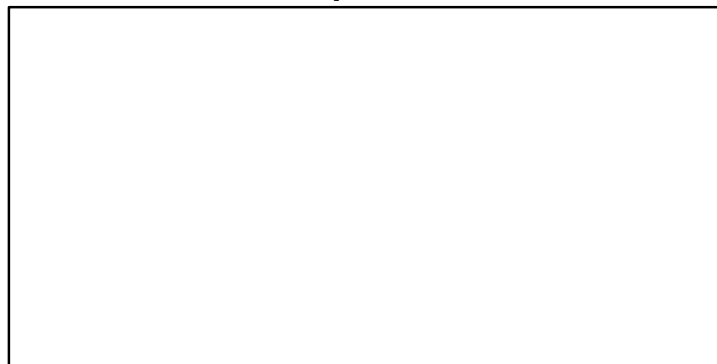


# Black marlin Indian Ocean [BLKMARLINIO]

TC-MT, TL\*, RecC\* (1950-2014-PONS)



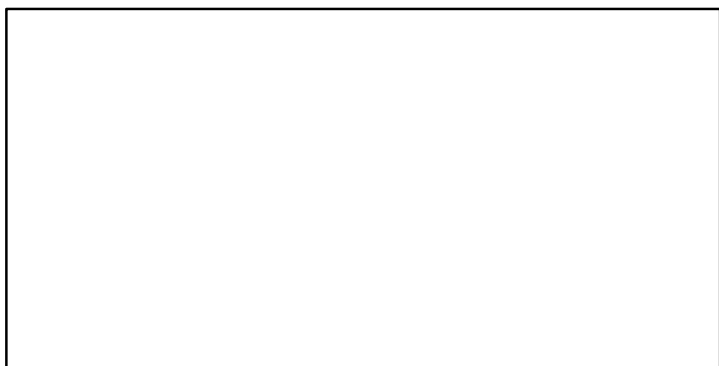
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

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

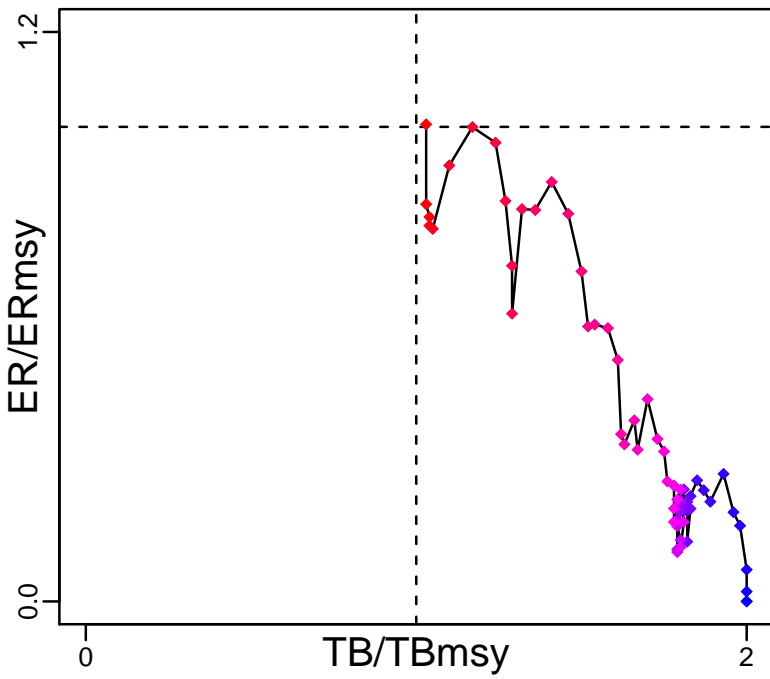
Metadata	
<b>Scientific Name</b>	Makaira mazara
<b>Current Assess ID</b>	IOTC-BMARLINIO-1950-2014-PONS
<b>Area</b>	Indian Ocean
<b>Management Authority</b>	Indian Ocean Tuna Commission
<b>Assessor</b>	Indian Ocean Tuna Commission
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2014	96,913
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-calc-ratio	2014	0.1
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2014	259,000
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2014	9524
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

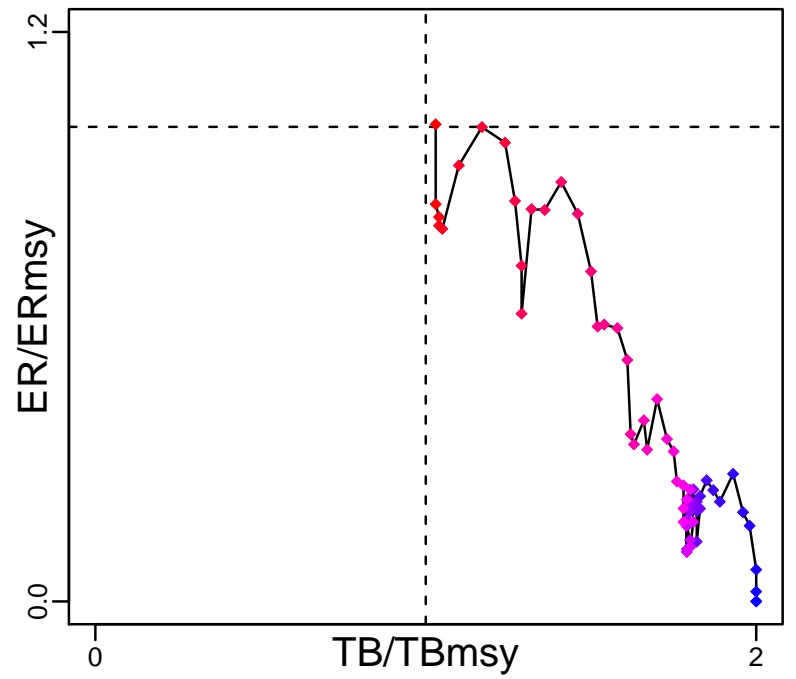
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	99,900	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2014	0.1	-	-
<b>TC</b>	TC-MT	2014	14,200		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2014	1.03		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2014	1.05		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2014	1.01		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Indo-Pacific blue marlin Indian Ocean [BMARLINIO]

Kobe MSY<sub>pref</sub> (1950–2014–PONS)



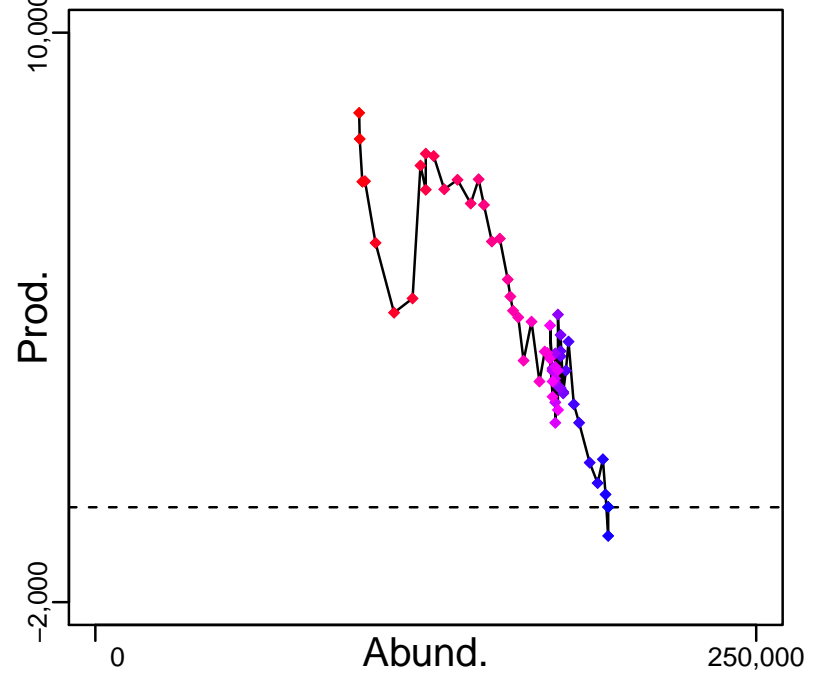
Kobe MGT<sub>pref</sub> (1950–2014–PONS)



Spawner Recruit\*



Production (1950–2014–PONS)

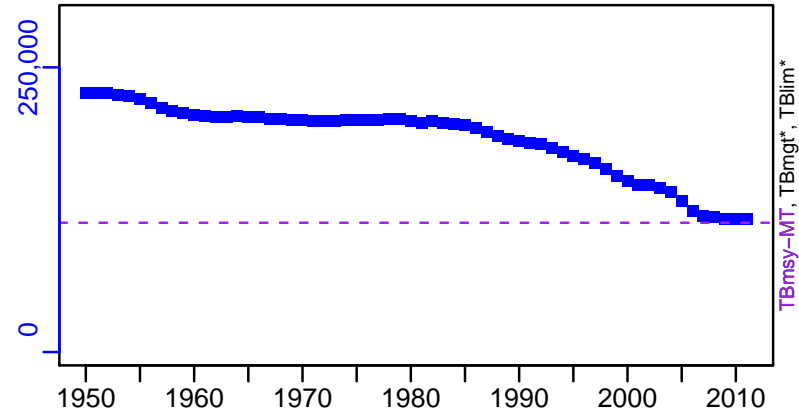


◆ Start Year ◆ End Year \* No Data

# Indo-Pacific blue marlin Indian Ocean [BMARLINIO]

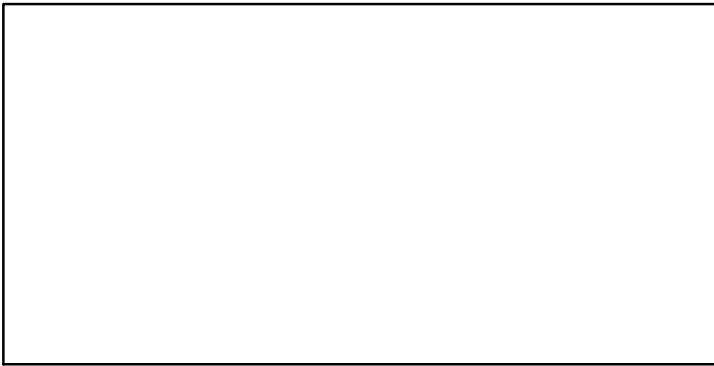
TB-MT (1950-2014-PONS)

SSB\*



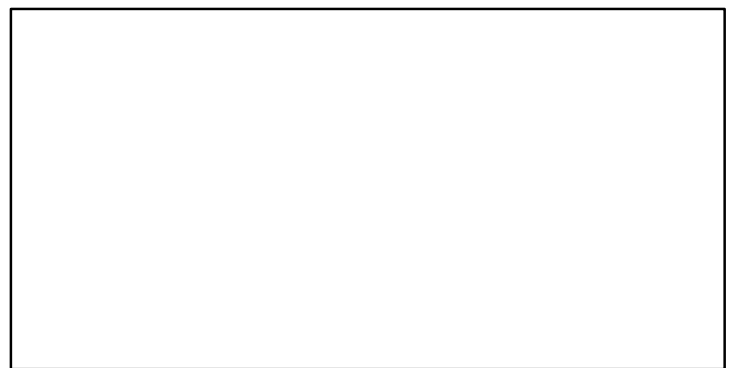
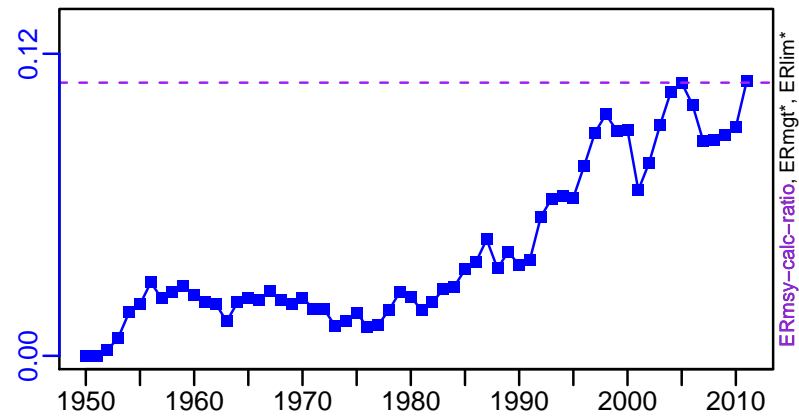
TN \*

F\*



ER-calc-ratio (1950-2014-PONS)

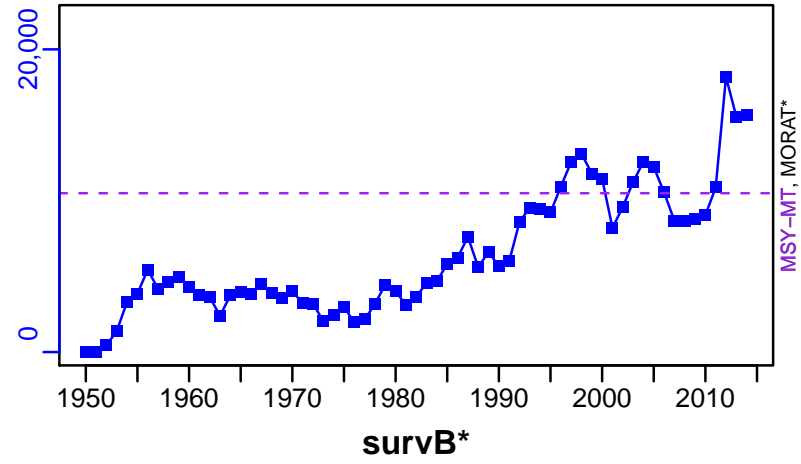
Recruits\*





# Indo-Pacific blue marlin Indian Ocean [BMARLINIO]

TC-MT, TL\*, RecC\* (1950-2014-PONS)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

## Southern bluefin tuna Southern Oceans [SBT]

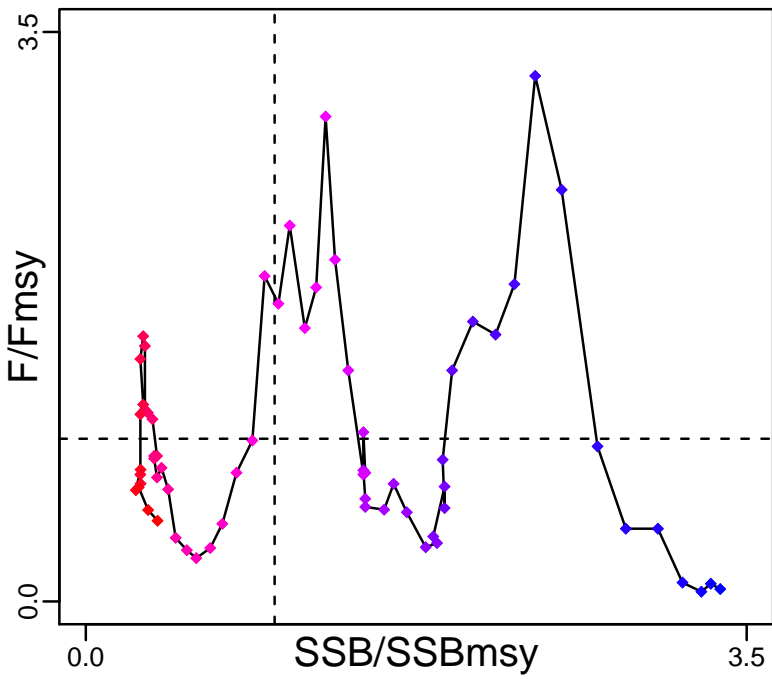
Metadata	
<b>Scientific Name</b>	Thunnus maccoyii
<b>Current Assess ID</b>	CCSBT-SC-SBT-1931-2016-PONS
<b>Area</b>	Southern Oceans
<b>Management Authority</b>	Commission for the Conservation of Southern Bluefin Tuna
<b>Assessor</b>	CCSBT Scientific Committee
<b>Asmts in RAM</b>	2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2014	515,839
<b>SSBmsy</b>	SSBmsy-extr-MT	2016	341,499
<b>Fmsy</b>	Fmsy-extr-1/yr	2014	0.09
<b>ERmsy</b>	ERmsy-ratio	2014	0.36
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2014	845,207
<b>MSY</b>	MSY-MT	2014	33,000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

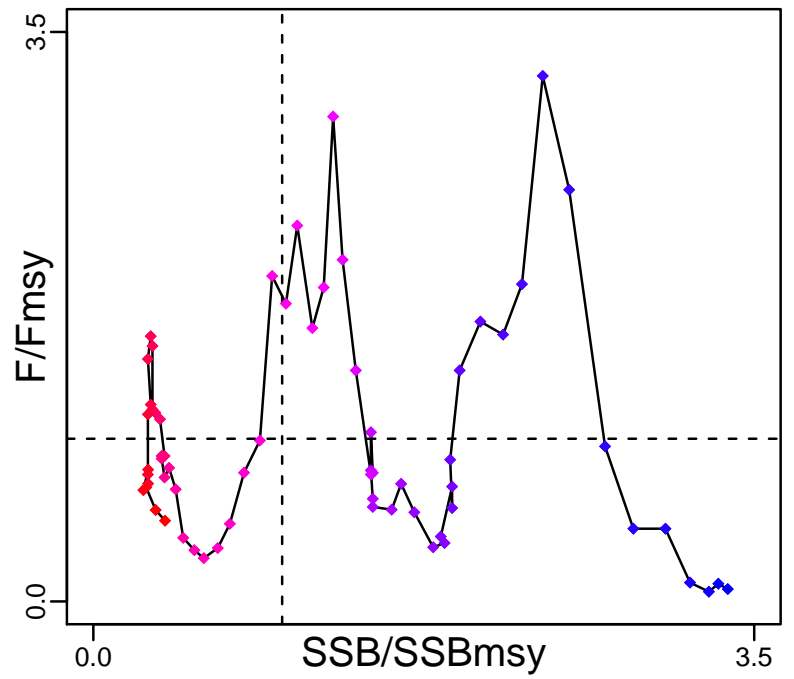
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	1,070,000	-	-
<b>SSB</b>	SSB-MT	2016	130,000	-	10+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	3,810,000	-	-
<b>F</b>	F-1/yr	2014	0.06	-	-
<b>ER</b>	ER-calc-ratio	2016	0.01	-	-
<b>TC</b>	TC-MT	2014	11,700		
<b>TL</b>	TL-MT	2016	14,400		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2014	0.65		
<b>SSB/SSBmsy</b>	SSBdivSSBmsy-dimensionless	2016	0.38		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2016	0.5		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-ratio	2014	0.11		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Southern bluefin tuna Southern Oceans [SBT]

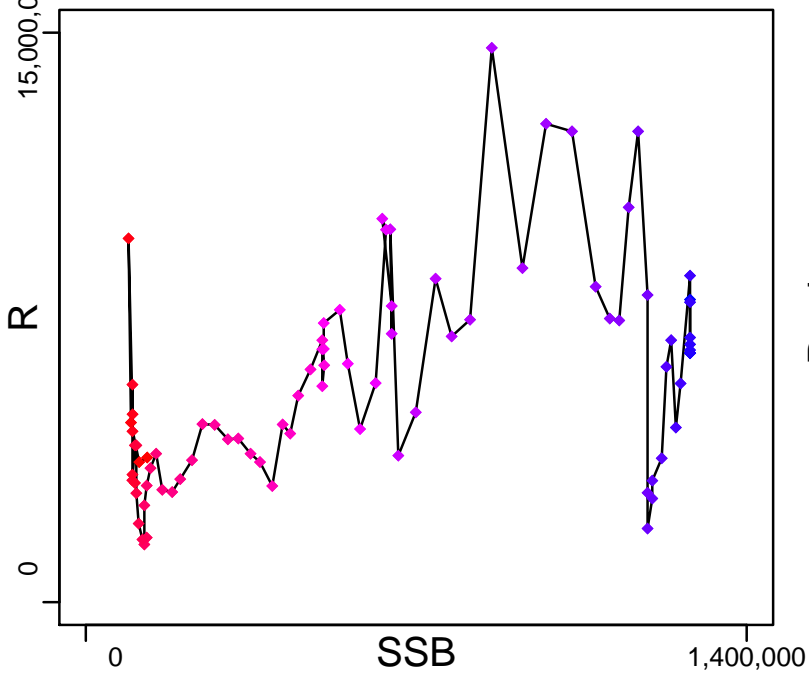
Kobe MSYpref (1931–2016–PONS)



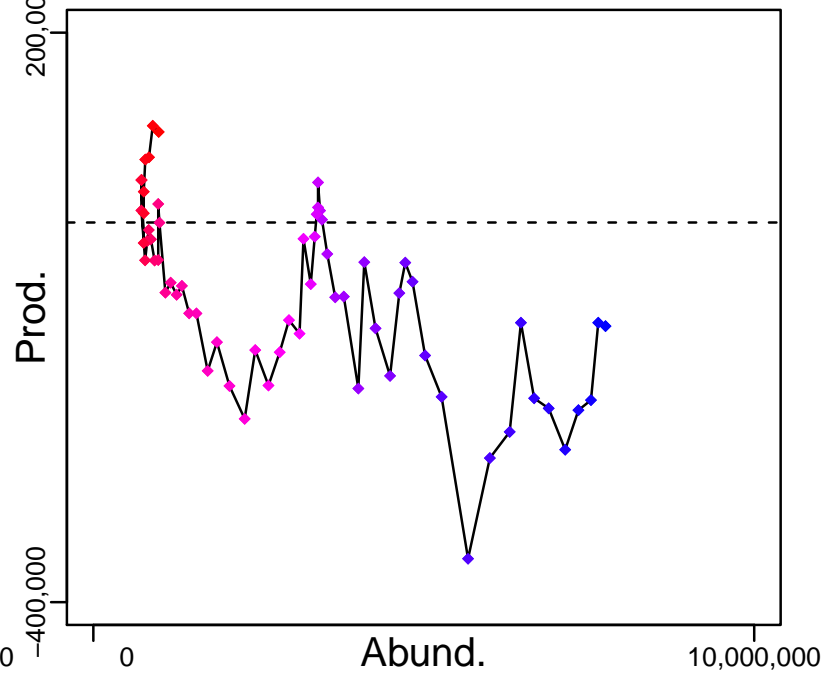
Kobe MGTpref (1931–2016–PONS)



Spawner Recruit (1931–2016–PONS)

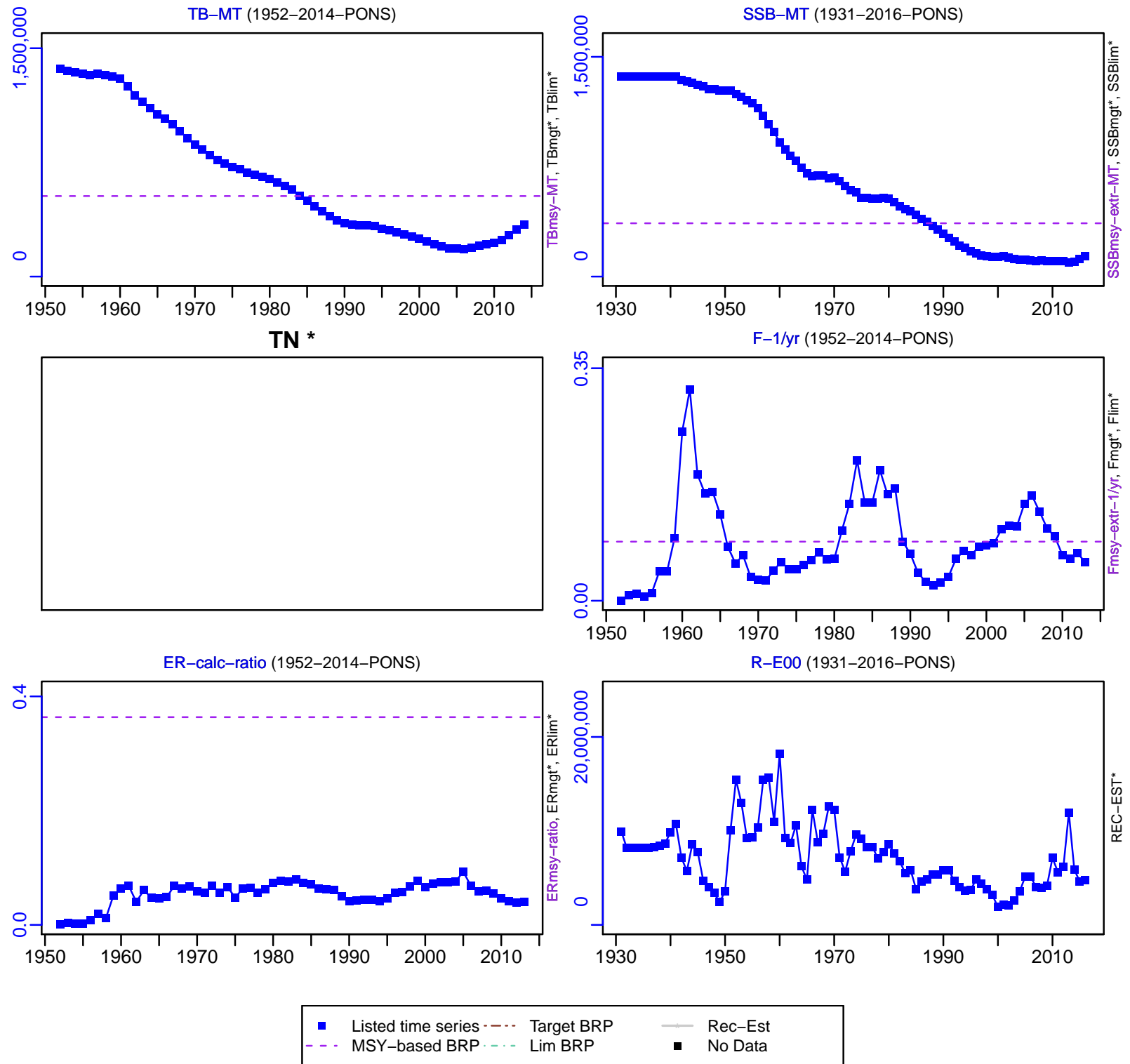


Production (1931–2016–PONS)



◆ Start Year ◆ End Year \* No Data

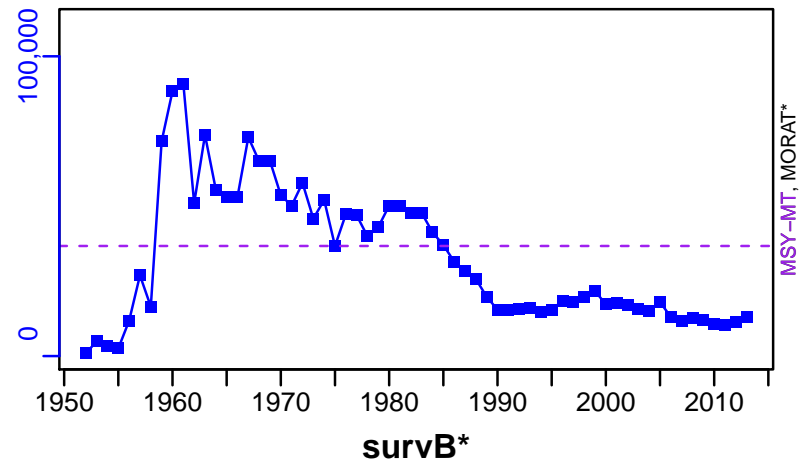
# Southern bluefin tuna Southern Oceans [SBT]



# Southern bluefin tuna Southern Oceans [SBT]

TC-MT, TL\*, RecC\* (1952-2014-PONS)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Skipjack tuna Indian Ocean [SKJCIO]

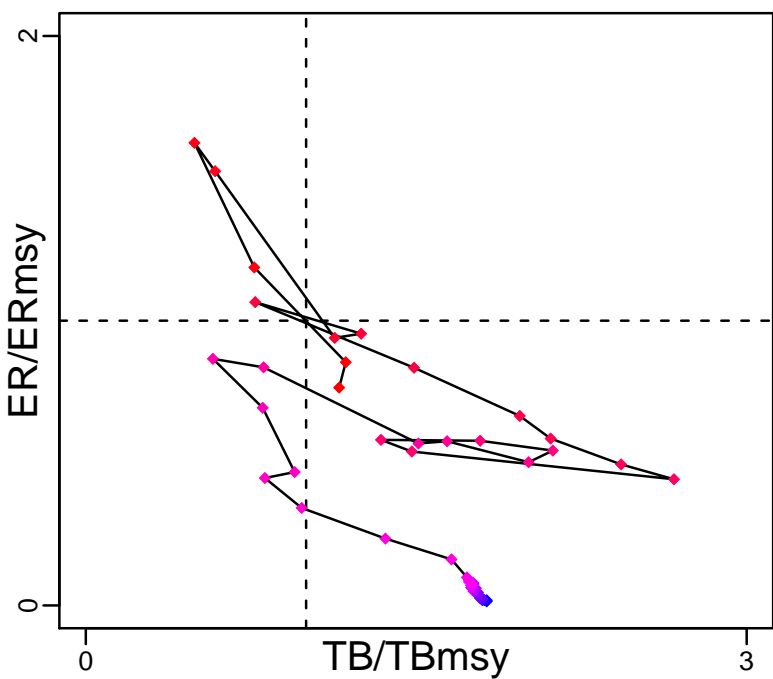
Metadata	
<b>Scientific Name</b>	Katsuwonus pelamis
<b>Current Assess ID</b>	IOTC-SKJCIO-1950-2014-PONS
<b>Area</b>	Indian Ocean
<b>Management Authority</b>	Indian Ocean Tuna Commission
<b>Assessor</b>	Indian Ocean Tuna Commission
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2014	788,806
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-calc-ratio	2014	0.53
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2014	417,000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

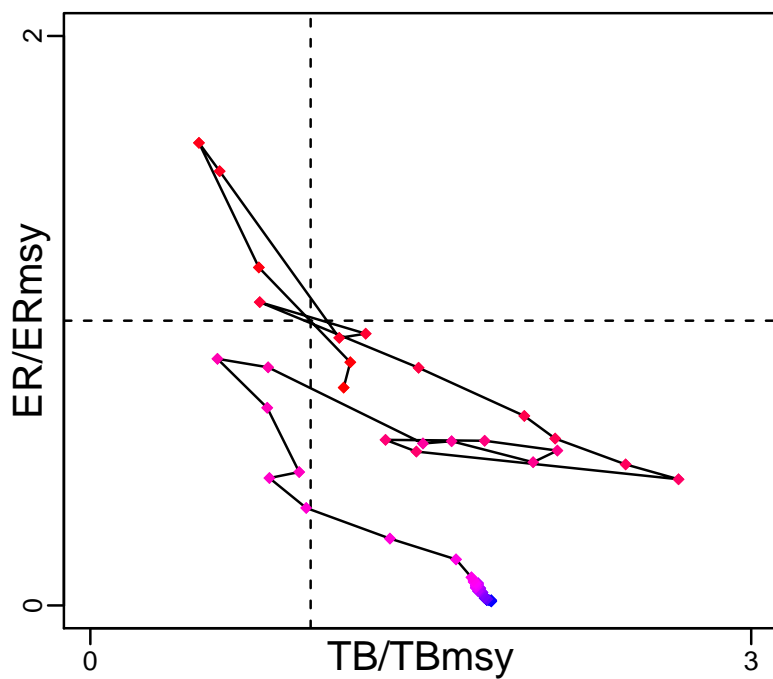
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	947,000	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2014	0.4	-	-
<b>TC</b>	TC-MT	2014	441,000		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2014	1.15		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2014	0.62		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2014	0.77		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Skipjack tuna Indian Ocean [SKJCIO]

Kobe MSYpref (1950–2014–PONS)



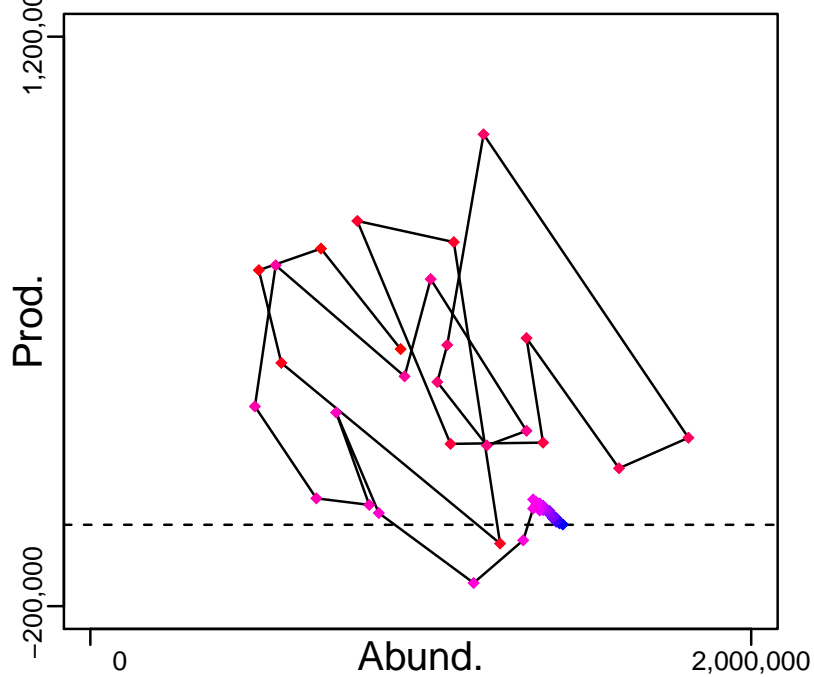
Kobe MGTpref (1950–2014–PONS)



Spawner Recruit\*



Production (1950–2014–PONS)

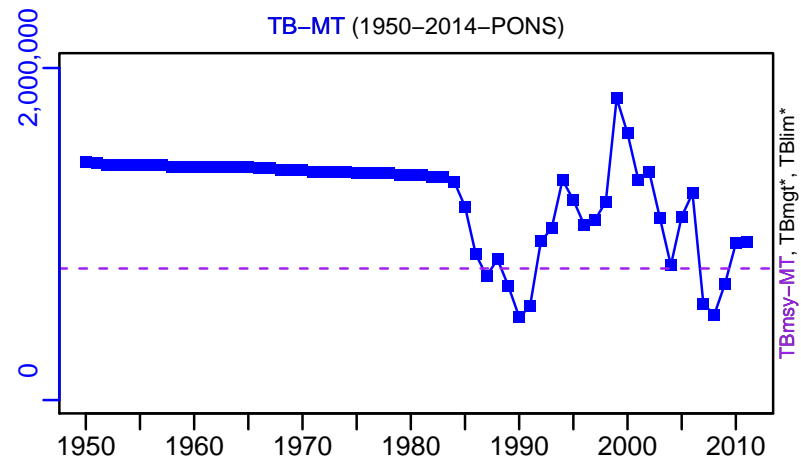


◆ Start Year ◆ End Year \* No Data

# Skipjack tuna Indian Ocean [SKJCIO]

TB-MT (1950-2014-PONS)

SSB\*



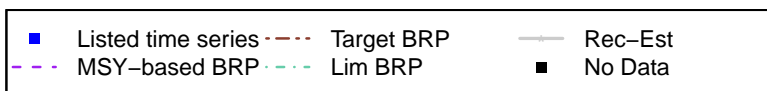
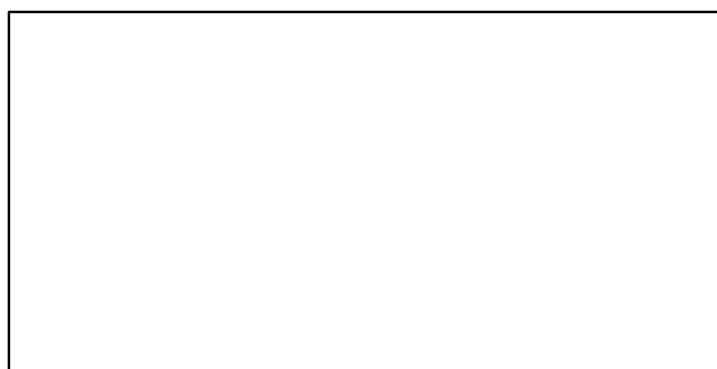
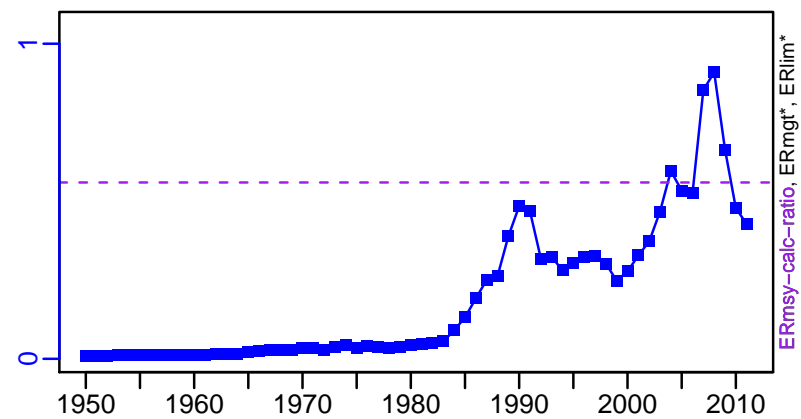
TN \*

F\*



ER-calc-ratio (1950-2014-PONS)

Recruits\*

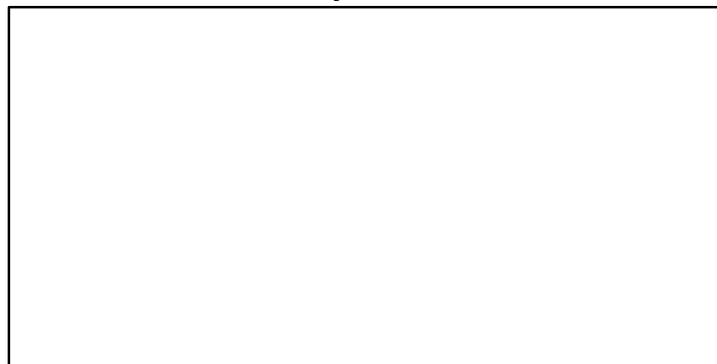
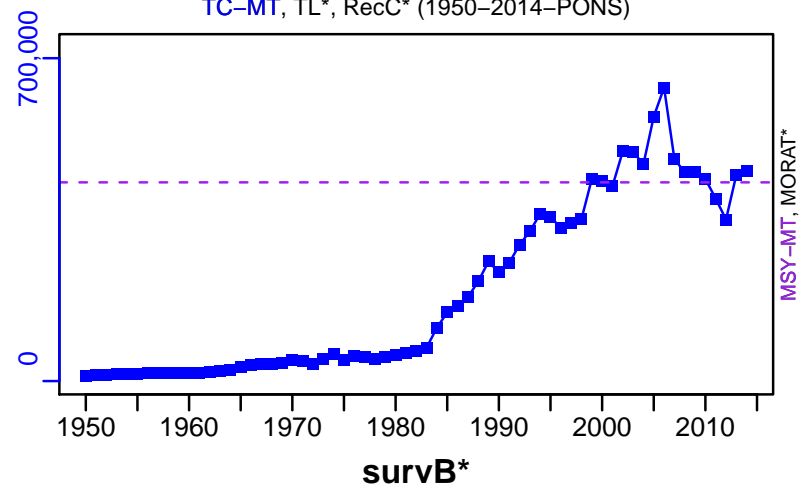




# Skipjack tuna Indian Ocean [SKJCIO]

TC-MT, TL\*, RecC\* (1950-2014-PONS)

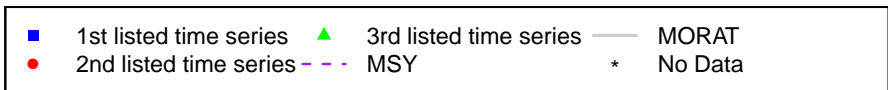
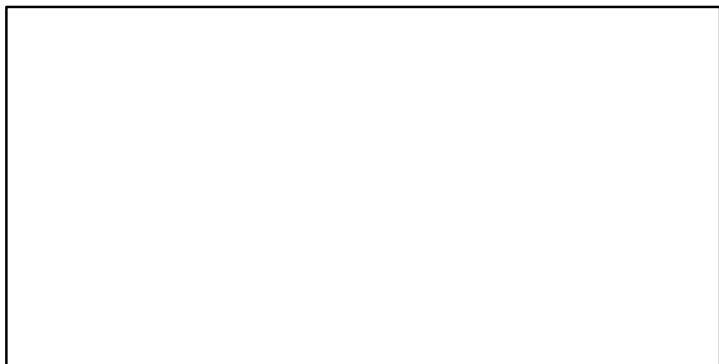
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Striped marlin Indian Ocean [STMARLINIO]

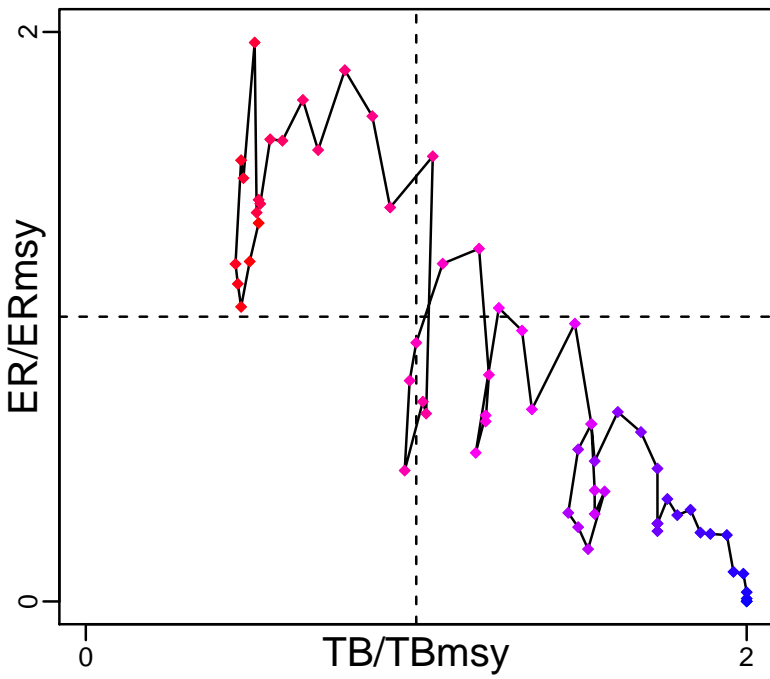
Metadata	
<b>Scientific Name</b>	Kajikia audax
<b>Current Assess ID</b>	IOTC-STMARLINIO-1950-2014-PONS
<b>Area</b>	Indian Ocean
<b>Management Authority</b>	Indian Ocean Tuna Commission
<b>Assessor</b>	Indian Ocean Tuna Commission
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2014	28,313
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-calc-ratio	2014	0.15
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2014	61,450
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2014	4218
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

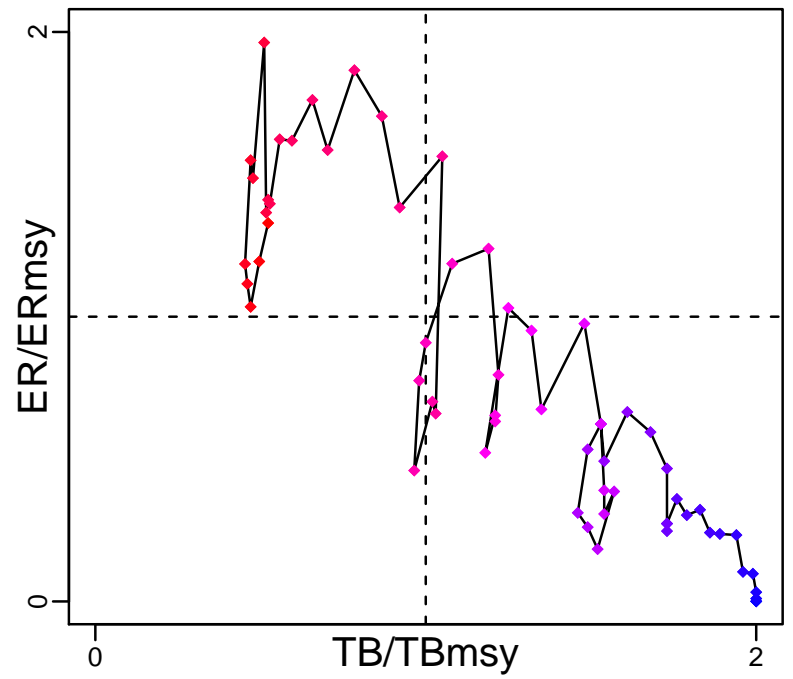
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	14,800	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2014	0.2	-	-
<b>TC</b>	TC-MT	2014	3990		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2014	0.52		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2014	1.12		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2014	1.33		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Striped marlin Indian Ocean [STMARLINIO]

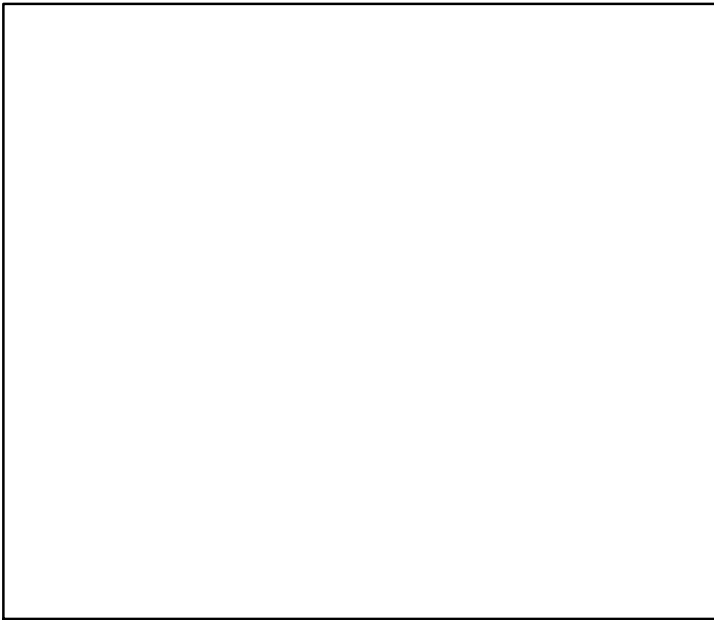
Kobe MSYpref (1950–2014–PONS)



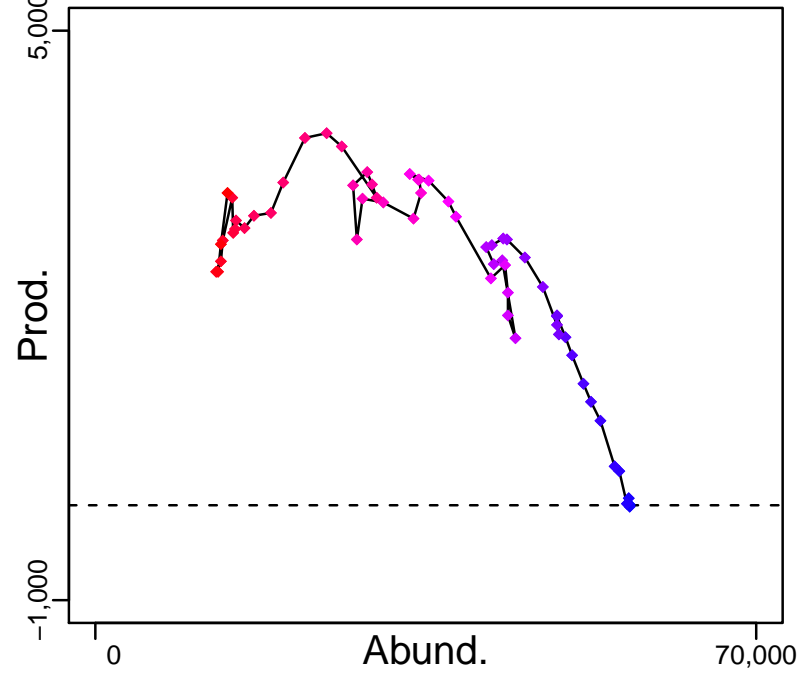
Kobe MGTpref (1950–2014–PONS)



Spawner Recruit\*



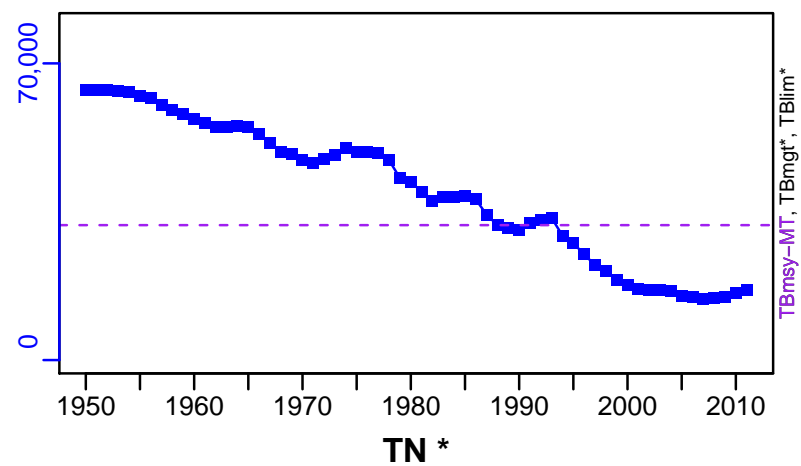
Production (1950–2014–PONS)



◆ Start Year ◆ End Year \* No Data

# Striped marlin Indian Ocean [STMARLINIO]

TB-MT (1950-2014-PONS)



SSB\*



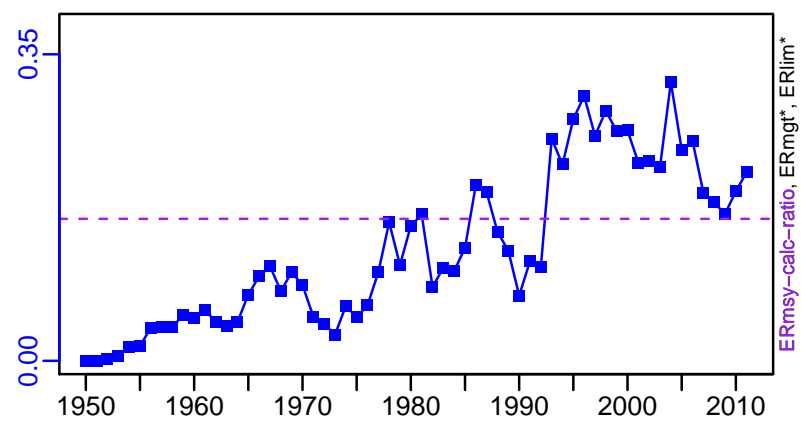
TN \*



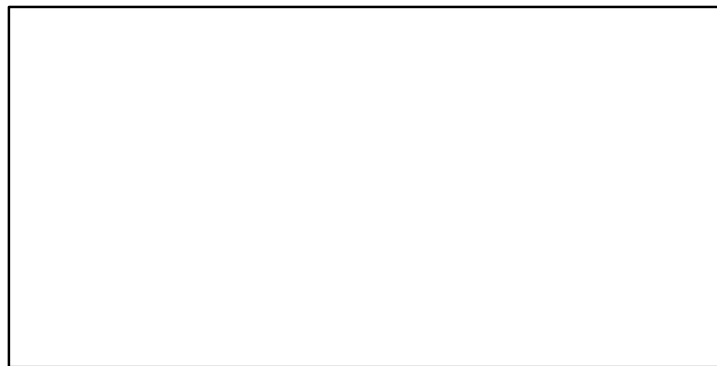
F\*



ER-calc-ratio (1950-2014-PONS)



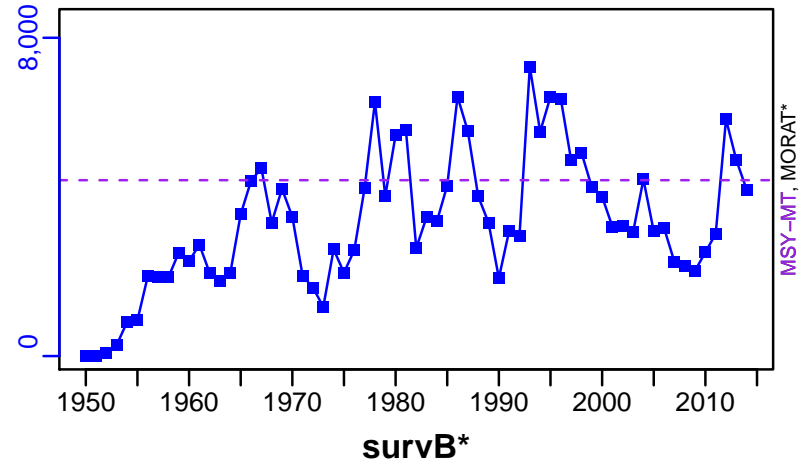
Recruits\*



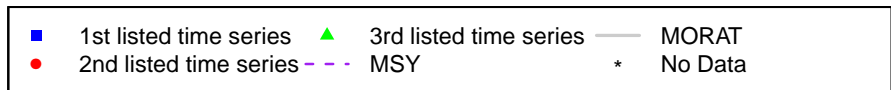
# Striped marlin Indian Ocean [STMARLINIO]

TC-MT, TL\*, RecC\* (1950-2014-PONS)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Swordfish Indian Ocean [SWORDIO]

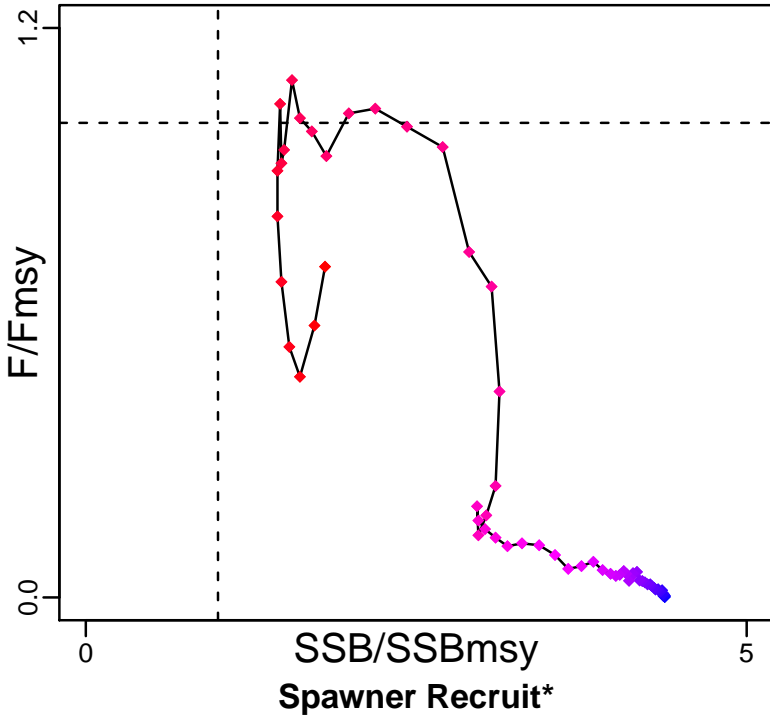
Metadata	
<b>Scientific Name</b>	Xiphias gladius
<b>Current Assess ID</b>	IOTC-SWORDIO-1950-2014-PONS
<b>Area</b>	Indian Ocean
<b>Management Authority</b>	Indian Ocean Tuna Commission
<b>Assessor</b>	Indian Ocean Tuna Commission
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2014	17,000
<b>Fmsy</b>	Fmsy-1/yr	2014	0.12
<b>ERmsy</b>	ERmsy-conv-ratio	2014	0.75
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2014	27,100
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

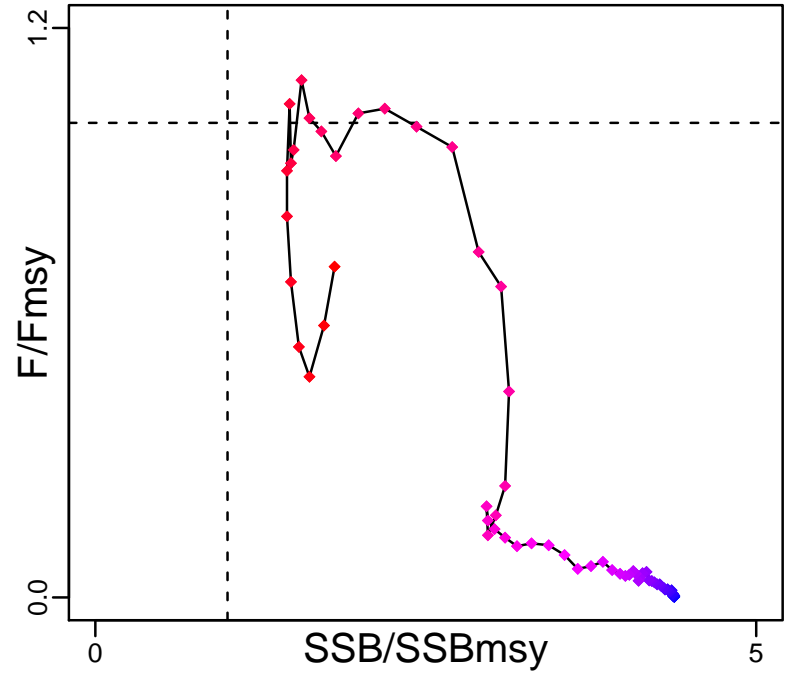
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	30,800	Females	10+
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2014	0.08	-	-
<b>ER</b>	ER-calc-ratio	2014	0.45	-	-
<b>TC</b>	TC-MT	2014	29,900		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSBdivSSBmsy-dimensionless	2014	1.81		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2014	0.7		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-conv-ratio	2014	0.6		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Swordfish Indian Ocean [SWORDIO]

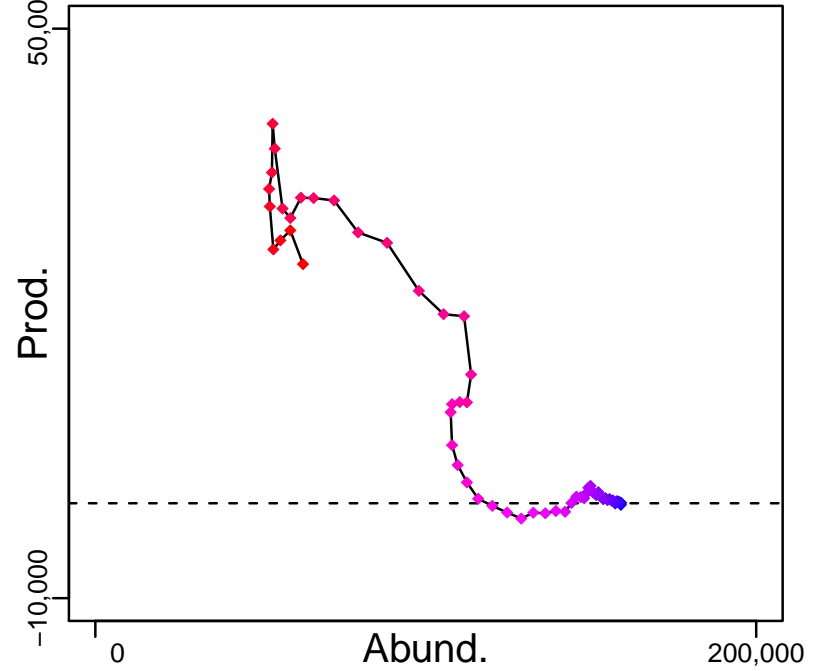
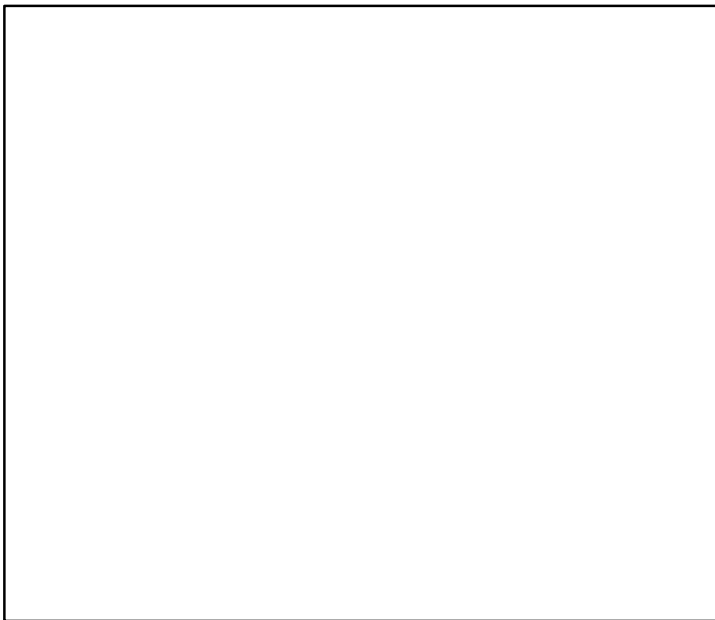
Kobe MSYpref (1950–2014–PONS)



Kobe MGTpref (1950–2014–PONS)



Production (1950–2014–PONS)



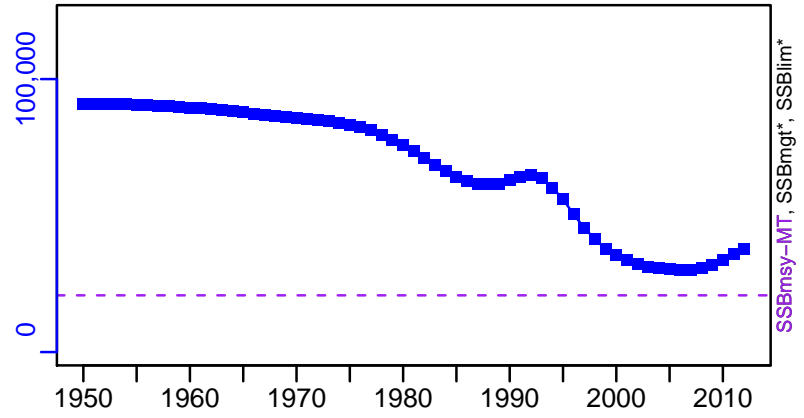
◆ Start Year ◆ End Year \* No Data

# Swordfish Indian Ocean [SWORDIO]

TB\*



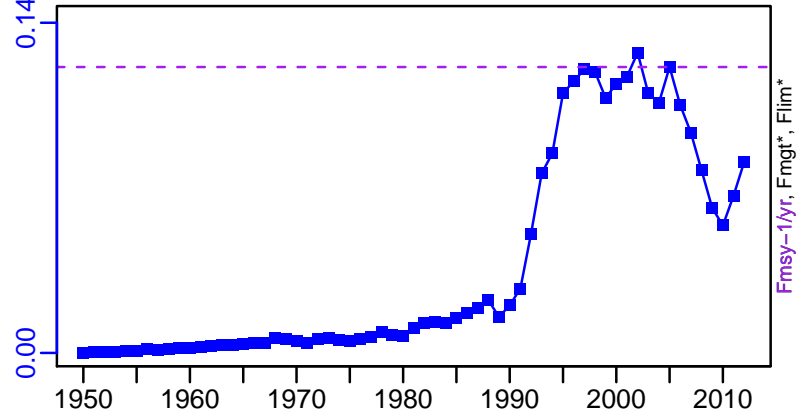
SSB-MT (1950–2014–PONS)



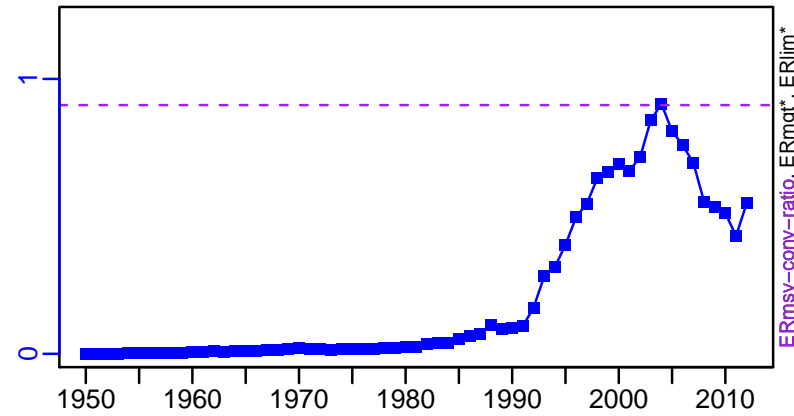
TN \*



F-1/yr (1950–2014–PONS)



ER-calc-ratio (1950–2014–PONS)



Recruits\*

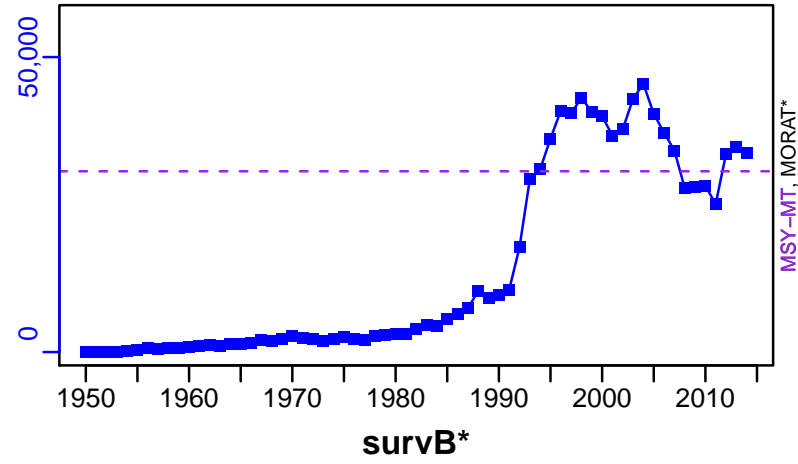




# Swordfish Indian Ocean [SWORDIO]

TC-MT, TL\*, RecC\* (1950-2014-PONS)

TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

## Yellowfin tuna Indian Ocean [YFINEIO]

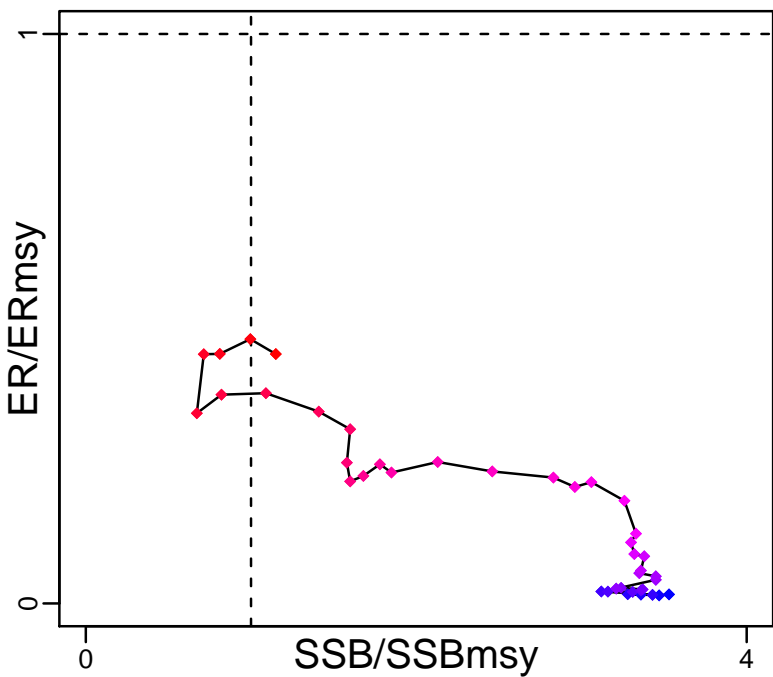
Metadata	
<b>Scientific Name</b>	Thunnus albacares
<b>Current Assess ID</b>	IOTC-YFINEIO-1950-2014-PONS
<b>Area</b>	Indian Ocean
<b>Management Authority</b>	Indian Ocean Tuna Commission
<b>Assessor</b>	Indian Ocean Tuna Commission
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2014	1,346,000
<b>SSBmsy</b>	SSBmsy-MT	2014	881,400
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-calc-ratio	2014	0.26
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2014	3,596,000
<b>SSB0</b>	SSB0-MT	2014	2,910,000
<b>MSY</b>	MSY-MT	2014	343,680
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

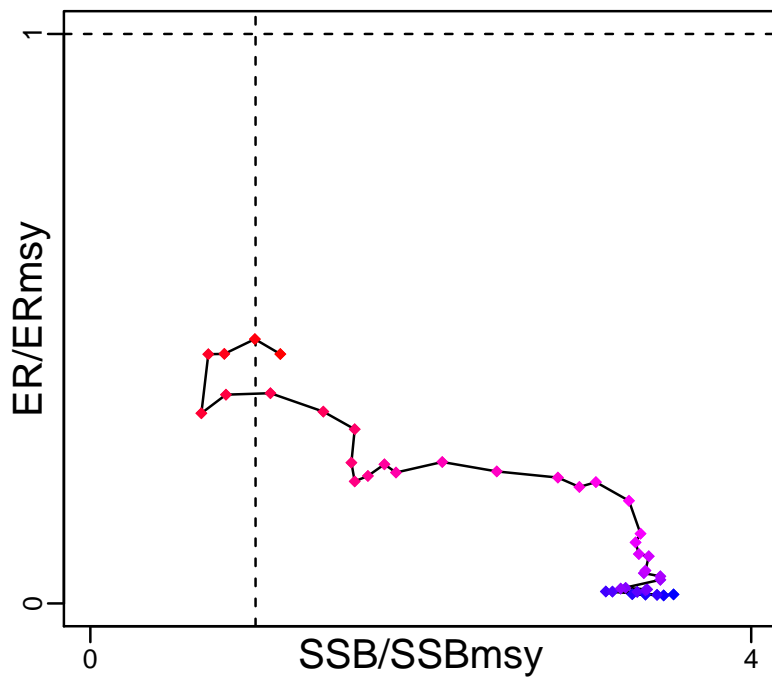
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	1,270,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	99,700,000	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2014	0.11	-	-
<b>TC</b>	TC-MT	2014	438,000		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSBdivSSBmsy-dimensionless	2014	1.15		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2014	0.62		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2014	0.44		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Yellowfin tuna Indian Ocean [YFINEIO]

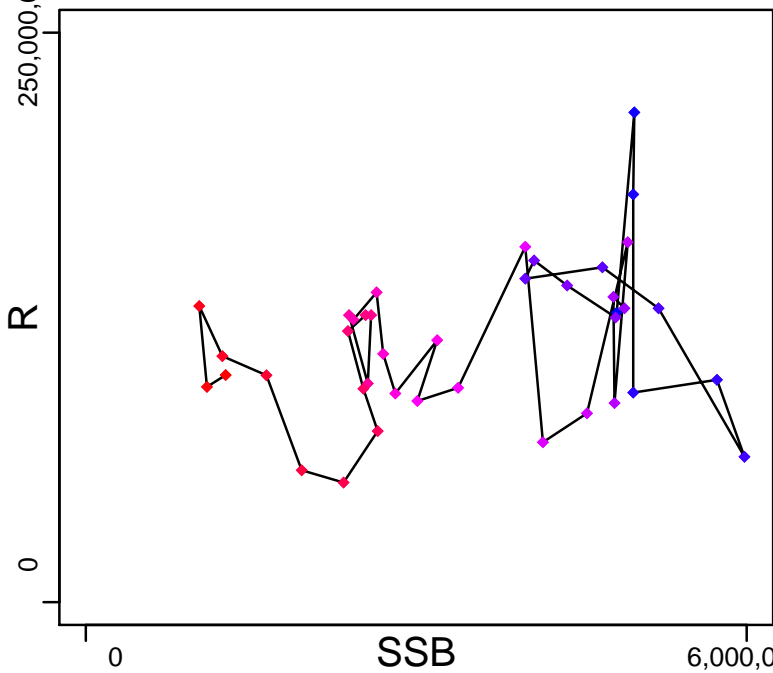
Kobe MSYpref (1950–2014–PONS)



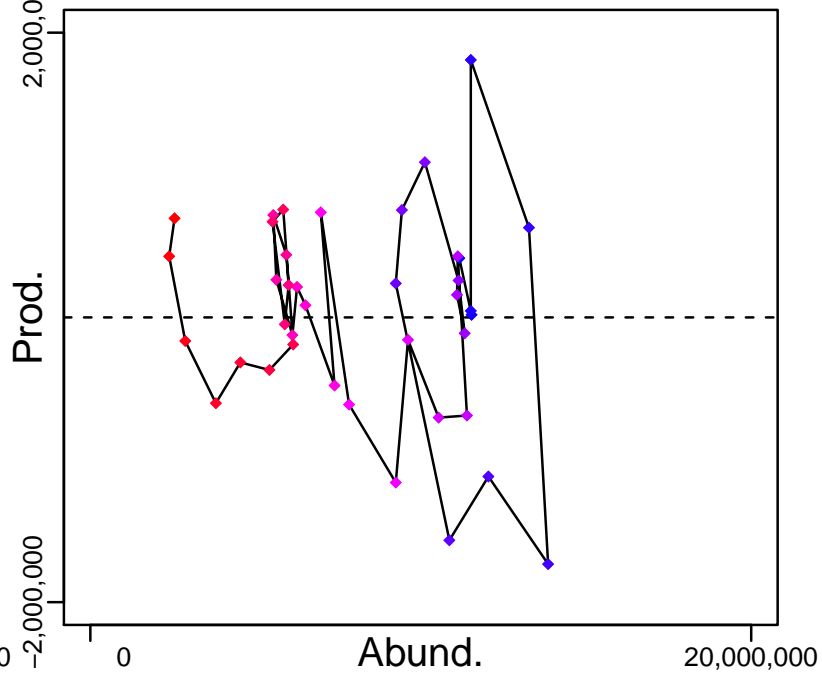
Kobe MGTpref (1950–2014–PONS)



Spawner Recruit (1950–2014–PONS)



Production (1950–2014–PONS)



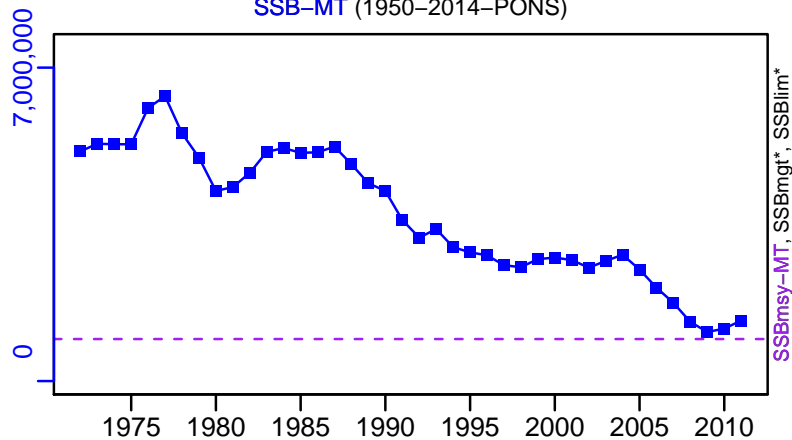
◆ Start Year ◆ End Year \* No Data

# Yellowfin tuna Indian Ocean [YFINEIO]

TB\*



SSB-MT (1950–2014–PONS)



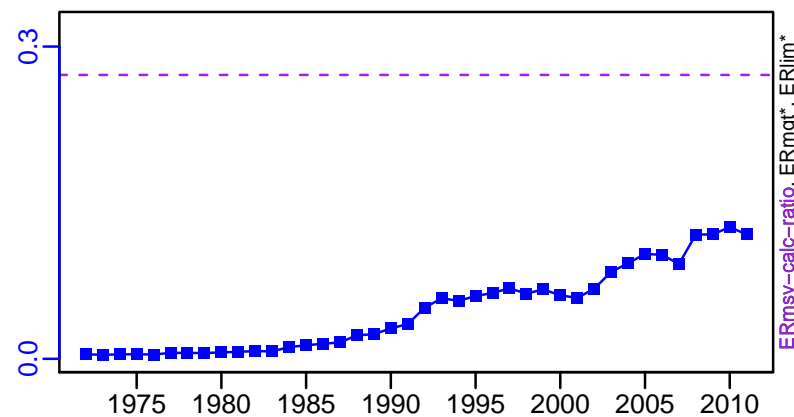
TN \*



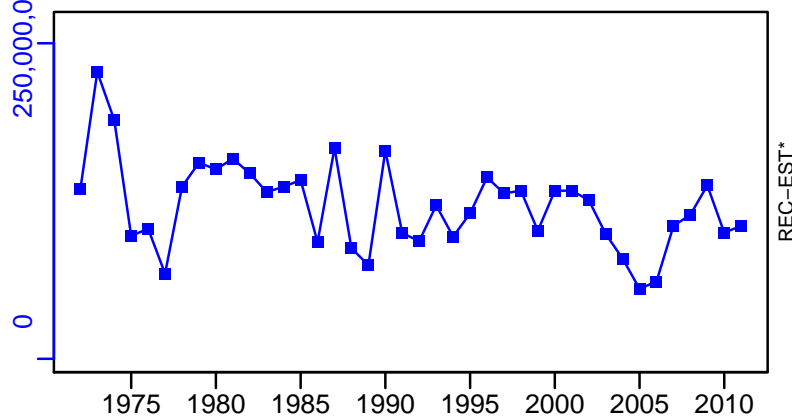
F\*



ER-calc-ratio (1950–2014–PONS)

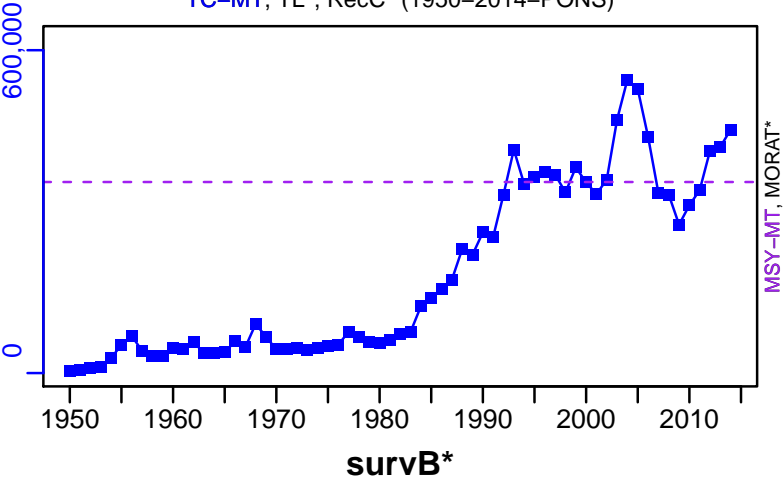


R-E00 (1950–2014–PONS)



Yellowfin tuna Indian Ocean [YFINEIO]

TC-MT, TL\*, RecC\* (1950-2014-PONS)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*

