

# other marine percoidids Stocks

## v4.66 (Nov-03-2024)

Not present Present Preferred

Stock	B/Bmsy	Time Series Types			
		U/Umsy	B/Bmgt	U/Umgt	
1. ATLCROAKMATLC [Atlantic croaker Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
2. AUSSALMONNZ [Australian salmon New Zealand]	TB SSB	ER F	TB SSB	ER F	
3. AXBRMNWA [Axillary seabream North West Africa]	TB SSB	ER F	TB SSB	ER F	
4. BCROAKCWAGIN-LBR [Bobo croaker Central West Africa Guinea-Liberia]	TB SSB	ER F	TB SSB	ER F	
5. BGRUNTCWACIV-BEN [Bigeye grunt Central West Africa Cote Divoire-Benin]	TB SSB	ER F	TB SSB	ER F	
6. BGRUNTCWACOG-AGO [Bigeye grunt Central West Africa Congo.-Angola]	TB SSB	ER F	TB SSB	ER F	
7. BKCDLFENI [Black cardinalfish East coast of North Island]	TB SSB	ER F	TB SSB	ER F	
8. BLACKGROUPERGMSATL [Black grouper Gulf of Mexico and South Atlantic]	TB SSB	ER F	TB SSB	ER F	
9. BLTILESATLC [Blueline tilefish Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F	
10. BLUEFISHATLC [Bluefish Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
11. BRMSOJ [Yellow sea bream Sea of Japan]	TB SSB	ER F	TB SSB	ER F	
12. BRMSPPCWACIV-BEN [Seabream Central West Africa Cote Divoire-Benin]	TB SSB	ER F	TB SSB	ER F	
13. BRMSPPCWAGAB-AGO [Seabream Central West Africa Gabon-Angola]	TB SSB	ER F	TB SSB	ER F	
14. BRMSPPCWAGIN-LBR [Seabream Central West Africa Guinea-Liberia]	TB SSB	ER F	TB SSB	ER F	
15. BSBASSMATLC [Black sea bass Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
16. BSBASSSATL [Black sea bass South Atlantic]	TB SSB	ER F	TB SSB	ER F	
17. BSBRMNWAMRT-SEN [Bluespotted seabream North West Africa Mauritania-Senegal]	TB SSB	ER F	TB SSB	ER F	
18. CJOBMHI [Crimson jobfish Main Hawaiian Islands]	TB SSB	ER F	TB SSB	ER F	
19. CJOBOKWI [Crimson jobfish Okinawa Islands]	TB SSB	ER F	TB SSB	ER F	
20. COBGM [Cobia Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F	
21. COBSATLC [Cobia Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F	
22. CPANDMEDGSA15-16 [Common pandora Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F	
23. CPANDMEDGSA9 [Common pandora Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F	
24. CROAKSPPCWACIV-BEN [Croaker Central West Africa Cote Divoire-Benin]	TB SSB	ER F	TB SSB	ER F	
25. CROAKSPPCWAGAB-AGO [Croaker Central West Africa Gabon-Angola]	TB SSB	ER F	TB SSB	ER F	
26. CROAKSPPCWAGIN-LBR [Croaker Central West Africa Guinea-Liberia]	TB SSB	ER F	TB SSB	ER F	

27. CROAKSPPNWASEN.GMB [Croaker North West Africa Senegal.-The Gambia]	TB SSB	ER F	TB SSB	ER F
28. EBASSGSA7 [European seabass Gulf of Lions]	TB SSB	ER F	TB SSB	ER F
29. EBASSIVbc-VII [European seabass ICES 4bc-7]	TB SSB	ER F	TB SSB	ER F
30. EBASSVIa-VIIb-j [European seabass ICES 6a-7b-j]	TB SSB	ER F	TB SSB	ER F
31. EBASSVIIIab [European seabass ICES 8ab]	TB SSB	ER F	TB SSB	ER F
32. EBASSVIIIc-IXa [European seabass ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
33. FSNAPOKWI [Flame snapper Okinawa Islands]	TB SSB	ER F	TB SSB	ER F
34. GAGGM [Gag Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
35. GAGSATLC [Gag Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
36. GGRUNTCWAGAB-AGO [Grey grunt Central West Africa Gabon-Angola]	TB SSB	ER F	TB SSB	ER F
37. GGRUNTCWAGIN-LBR [Grey grunt Central West Africa Guinea-Liberia]	TB SSB	ER F	TB SSB	ER F
38. GHBRMGSA7 [Gilthead seabream Gulf of Lions]	TB SSB	ER F	TB SSB	ER F
39. GJOBMHI [Green jobfish Main Hawaiian Islands]	TB SSB	ER F	TB SSB	ER F
40. GLGROUPSATLCGM [Goliath grouper Southern Atlantic coast and Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
41. GRSNAPGM [Gray snapper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
42. HHTILEECS [Horsehead tilefish East China Sea]	TB SSB	ER F	TB SSB	ER F
43. JSNAPOKWI [Japanese snapper Okinawa Islands]	TB SSB	ER F	TB SSB	ER F
44. LDENTCWAAGO [Large eye dentex Central West Africa Angola]	TB SSB	ER F	TB SSB	ER F
45. LDENTNWA [Large eye dentex North West Africa]	TB SSB	ER F	TB SSB	ER F
46. LJOBOKWI [Lavender jobfish Okinawa Islands]	TB SSB	ER F	TB SSB	ER F
47. LNSNAPGM [Lane snapper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
48. MORWONGESE [Jackass morwong Eastern half of Southeast Australia]	TB SSB	ER F	TB SSB	ER F
49. MORWONGWSE [Jackass morwong Western half of Southeast Australia]	TB SSB	ER F	TB SSB	ER F
50. MUTSNAPSATLCGM [Mutton snapper Southern Atlantic coast and Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
51. NZSNAPNZ1BOP-HAGU [New Zealand snapper New Zealand SNA 1 Bay of Plenty and Hauraki Gulf]	TB SSB	ER F	TB SSB	ER F
52. NZSNAPNZ1ENLD [New Zealand snapper New Zealand SNA 1 east Northland]	TB SSB	ER F	TB SSB	ER F
53. NZSNAPNZ7 [New Zealand snapper New Zealand SNA 7]	TB SSB	ER F	TB SSB	ER F
54. NZSNAPNZ8 [New Zealand snapper New Zealand Area 8 (Auckland and Central West)]	TB SSB	ER F	TB SSB	ER F
55. PANDSPPNWA [Pandora spp North West Africa]	TB SSB	ER F	TB SSB	ER F
56. PICAMEDGSA25 [Picarel Cyprus Island]	TB SSB	ER F	TB SSB	ER F
57. RBRMECS [Red seabream East China Sea]	TB SSB	ER F	TB SSB	ER F
58. RBRMIX [Red seabream ICES 9]	TB SSB	ER F	TB SSB	ER F
59. RBRMMEDGSA1-3 [Red seabream Alboran Island Sea (GSA 1,3)]	TB SSB	ER F	TB SSB	ER F
60. RBRMSETOE [Red seabream Inland Sea of Japan (East)]	TB SSB	ER F	TB SSB	ER F
61. RBRMSETOW [Red seabream Inland Sea of Japan (West)]	TB SSB	ER F	TB SSB	ER F
62. RBRMVI-VII-VIII [Red seabream ICES 6-7-8]	TB SSB	ER F	TB SSB	ER F
63. RBRMX [Red seabream Azores Grounds]	TB SSB	ER F	TB SSB	ER F
64. RGROUPGM [Red grouper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
65. RGROUPSATL [Red grouper South Atlantic]	TB SSB	ER F	TB SSB	ER F

66. RGRUNTNWA [Rubberlip grunt North West Africa]	TB SSB	ER F	TB SSB	ER F
67. RMULLMEDGSA1 [Red mullet Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F
68. RMULLMEDGSA10 [Red mullet South Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
69. RMULLMEDGSA11 [Red mullet Sardinia]	TB SSB	ER F	TB SSB	ER F
70. RMULLMEDGSA15-16 [Red mullet Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F
71. RMULLMEDGSA17-18 [Red mullet Adriatic Sea (GSA 17,18)]	TB SSB	ER F	TB SSB	ER F
72. RMULLMEDGSA19 [Red mullet Western Ionian Sea]	TB SSB	ER F	TB SSB	ER F
73. RMULLMEDGSA22 [Red mullet Aegean Sea]	TB SSB	ER F	TB SSB	ER F
74. RMULLMEDGSA25 [Red mullet Cyprus Island]	TB SSB	ER F	TB SSB	ER F
75. RMULLMEDGSA29 [Red mullet Black Sea]	TB SSB	ER F	TB SSB	ER F
76. RMULLMEDGSA5 [Red mullet Balearic Island]	TB SSB	ER F	TB SSB	ER F
77. RMULLMEDGSA6 [Red mullet Northern Spain]	TB SSB	ER F	TB SSB	ER F
78. RMULLMEDGSA7 [Red mullet Gulf of Lions]	TB SSB	ER F	TB SSB	ER F
79. RMULLMEDGSA9 [Red mullet Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
80. RPANDCWACIV-BEN [Red pandora Central West Africa Cote Divoire-Benin]	TB SSB	ER F	TB SSB	ER F
81. RPANDNWA [Red pandora North West Africa]	TB SSB	ER F	TB SSB	ER F
82. RPORGYSATLC [Red porgy Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
83. RSNAPGM [Red snapper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
84. RSNAPSATLC [Red snapper Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
85. SBMSPPNWAMAR [Seabreams spp North West Africa Morocco]	TB SSB	ER F	TB SSB	ER F
86. SBREAMCH [Deepwater cardinalfish Chile]	TB SSB	ER F	TB SSB	ER F
87. SCUPNWATLC [Scup Northwestern Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
88. SKSNAPCARIB [Silk snapper Caribbean]	TB SSB	ER F	TB SSB	ER F
89. SMULLMEDGSA15-16 [Surmullet Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F
90. SMULLMEDGSA5 [Surmullet Balearic Island]	TB SSB	ER F	TB SSB	ER F
91. SMULLMEDGSA9 [Surmullet Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
92. SNAPSAUSGSV [Snapper Gulf St. Vincent]	TB SSB	ER F	TB SSB	ER F
93. SNAPSAUSSER [Snapper South-East Region]	TB SSB	ER F	TB SSB	ER F
94. SNAPSAUSSGWC [Snapper Spencer Gulf and West Coast]	TB SSB	ER F	TB SSB	ER F
95. SNOWGROUPSATLC [Snowy grouper Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
96. STRIPEDBASSGOMCHATT [Striped bass Gulf of Maine / Cape Hatteras]	TB SSB	ER F	TB SSB	ER F
97. STRMULLIIIa-IV-VIId [Striped red mullet ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
98. STRMULLVI-VIIabcefgghijk-VIII-IXa [Striped red mullet ICES 6-7abcefgghijk-8-9a]	TB SSB	ER F	TB SSB	ER F
99. SUNIMHI [Sleek unicornfish Main Hawaiian Islands]	TB SSB	ER F	TB SSB	ER F
100. SWHITSE [School whiting Southeast Australia]	TB SSB	ER F	TB SSB	ER F
101. TARAKENZ [Tarakihi Eastern New Zealand]	TB SSB	ER F	TB SSB	ER F
102. TARAKSA [Tarakihi Sub-Antarctic]	TB SSB	ER F	TB SSB	ER F
103. THREADCWACIV-BEN [Threadfin Central West Africa Cote Divoire-Benin]	TB SSB	ER F	TB SSB	ER F
104. THREADCWAGAB-AGO [Threadfin Central West Africa Gabon-Angola]	TB SSB	ER F	TB SSB	ER F
105. THREADCWAGIN-LBR [Threadfin Central West Africa Guinea-Liberia]	TB SSB	ER F	TB SSB	ER F
106. TILEGM [Tilefish Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F

107. TILEMATLC [Tilefish Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
108. TILESATLC [Tilefish Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
109. TSGTFMHI [Twosaddle goatfish Main Hawaiian Islands]	TB SSB	ER F	TB SSB	ER F
110. VSNAPGM [Vermilion snapper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
111. VSNAPSATLC [Vermilion snapper Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
112. WEAKFISHATLC [Weakfish Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
113. WGROUPEWAMRT-SEN [White grouper North West Africa Mauritania-Senegal]	TB SSB	ER F	TB SSB	ER F
114. WSGTFMHI [Whitesaddle goatfish Main Hawaiian Islands]	TB SSB	ER F	TB SSB	ER F
115. YEGROUPGM [Yellowedge grouper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
116. YFGTFMHI [Yellowfin goatfish Main Hawaiian Islands]	TB SSB	ER F	TB SSB	ER F
117. YSGTFMHI [Yellowstripe goatfish Main Hawaiian Islands]	TB SSB	ER F	TB SSB	ER F
118. YTSNAPSATLCGM [Yellowtail snapper Southern Atlantic coast and Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F

## Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

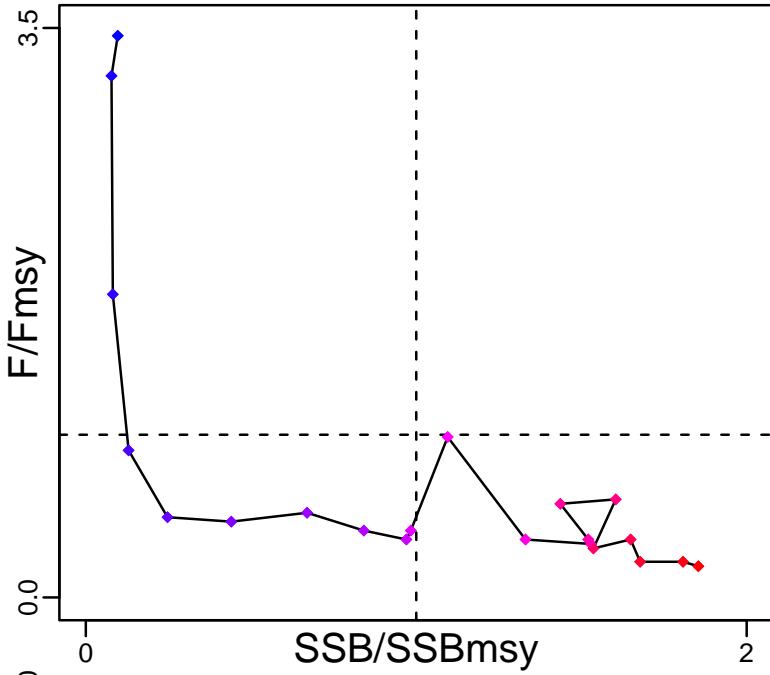
Metadata	
<b>Scientific Name</b>	Micropogonias undulatus
<b>Current Assess ID</b>	ASMFC-ATLCROAKMATLC-1981-2008-HIVELY
<b>Area</b>	Mid-Atlantic Coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Atlantic States Marine Fisheries Commission
<b>Asmts in RAM</b>	2002, 2008

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2008	72,362
<b>Fmsy</b>	Fmsy-1/yr	2008	0.365
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2002	0.3
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

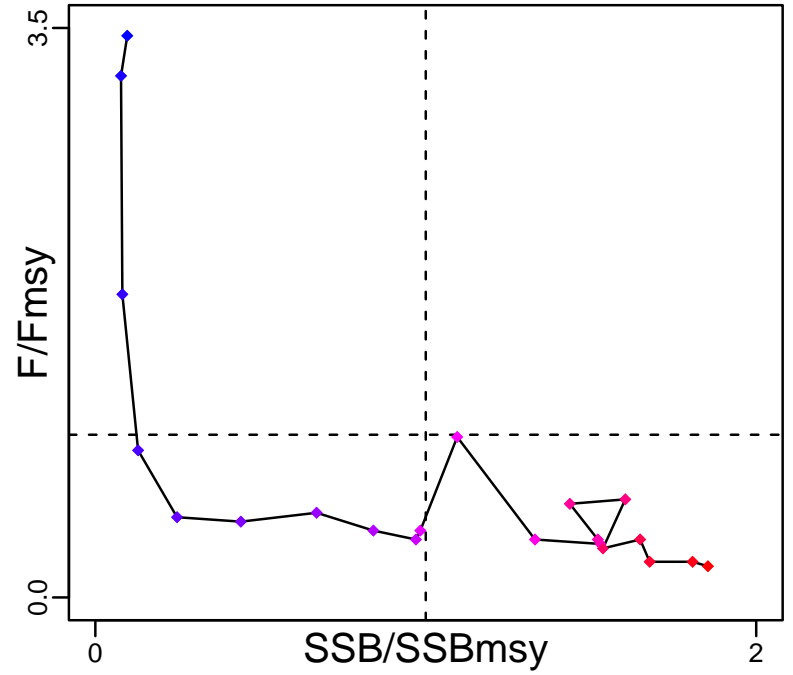
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2008	134,143	Females	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	643,964,000	-	0
<b>F</b>	F-1/yr	2008	0.07	-	-
<b>ER</b>	ER-ratio	2002	0.088	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2008	12,647		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2008	1.854		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2008	0.192		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

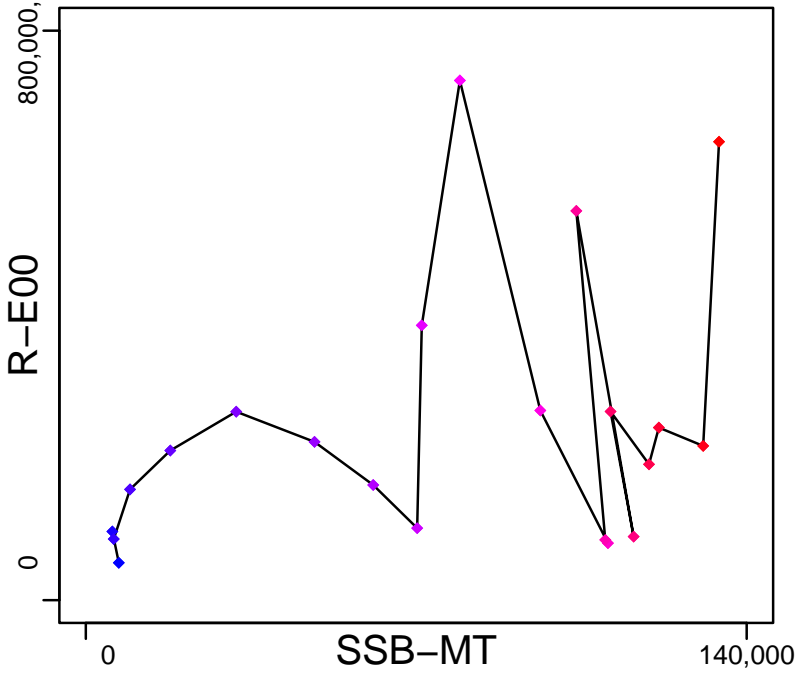
Kobe MSYpref (1981–2008–HIVELY)



Kobe MGTpref (1981–2008–HIVELY)



Spawner Recruit (1981–2008–HIVELY)



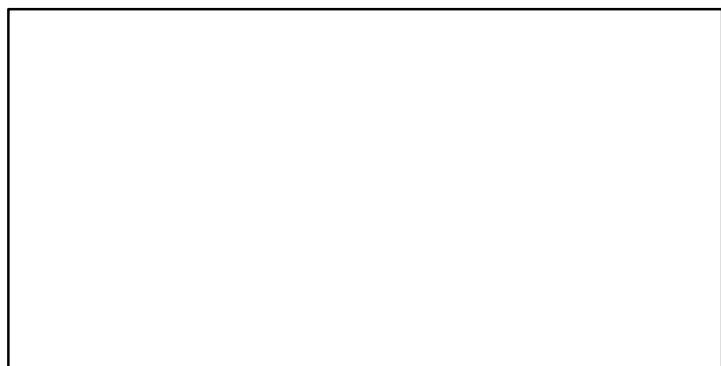
Production\*



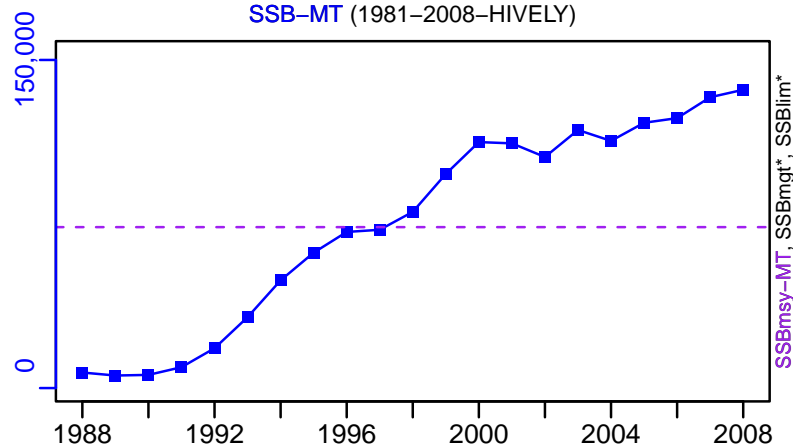
◆ Start Year ◆ End Year \* No Data

# Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

TB\*



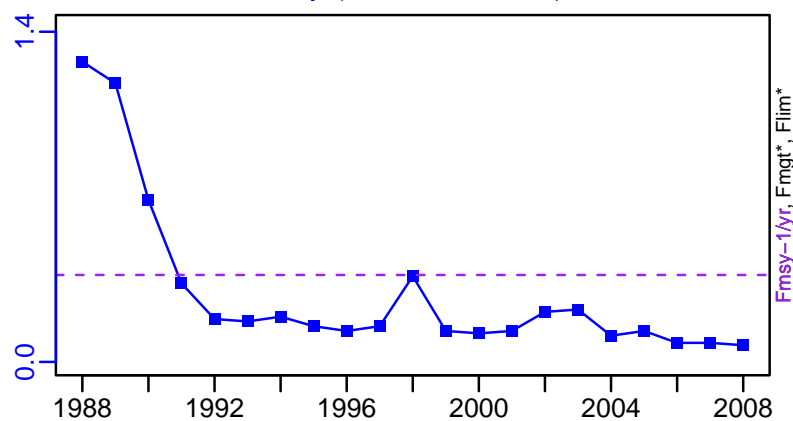
SSB-MT (1981-2008-HIVELY)



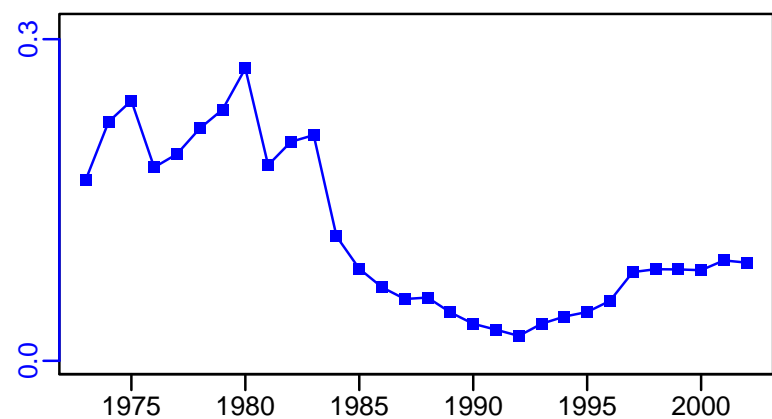
TN \*



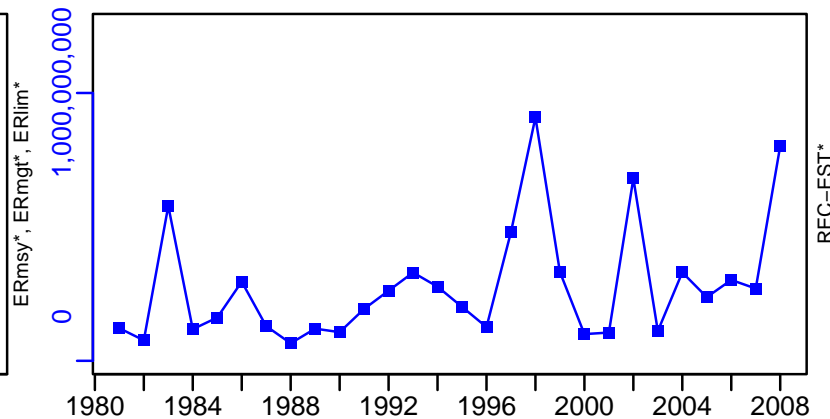
F-1/yr (1981-2008-HIVELY)



ER-ratio (1973-2002-STANTON)

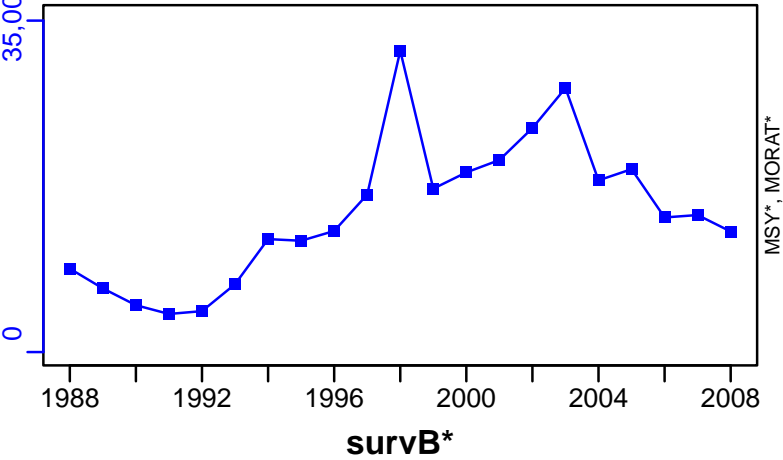


R-E00 (1981-2008-HIVELY)



Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

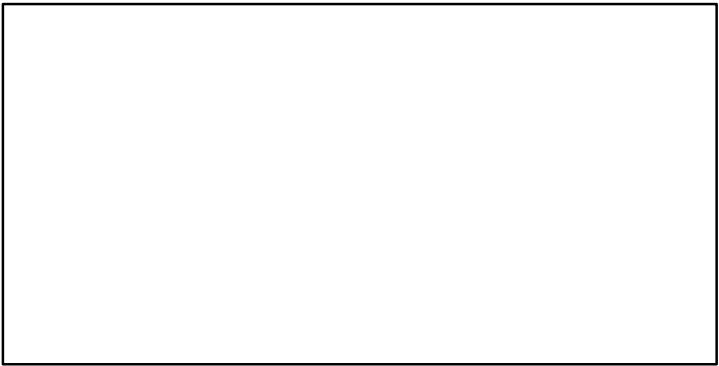
TL-MT, TC\*, RecC\* (1981-2008-HIVELY)



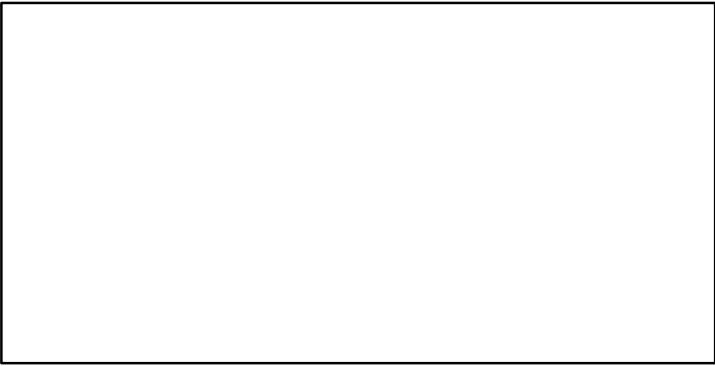
TAC\*, Cpair\*, Cadv\*



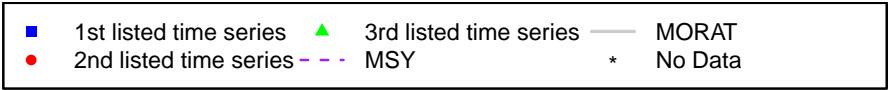
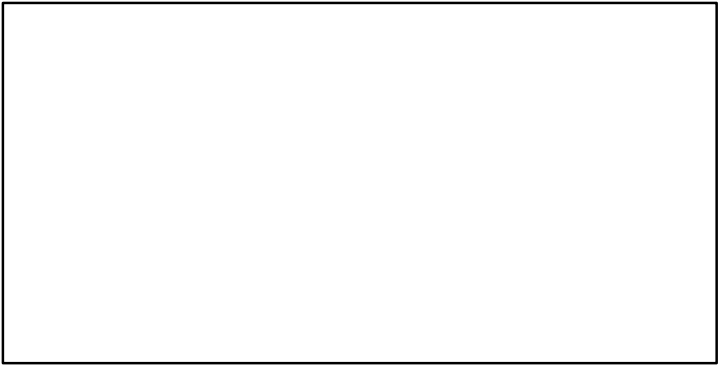
CPUE\*



EFFORT\*



CdivMSY\*





## Australian salmon New Zealand [AUSSALMONNZ]

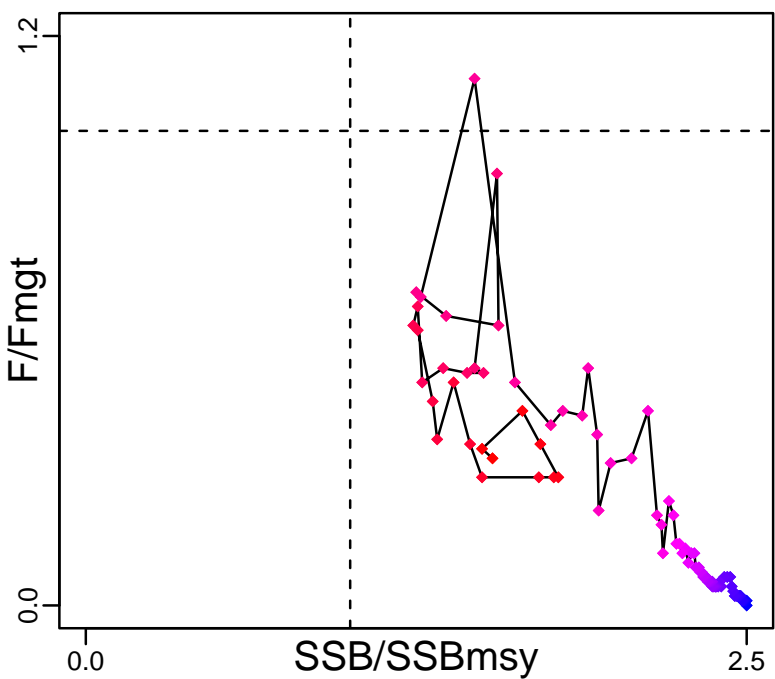
Metadata	
<b>Scientific Name</b>	Arripis trutta
<b>Current Assess ID</b>	NIWA-AUSSALMONNZ-1929-2013-FU
<b>Area</b>	New Zealand
<b>Management Authority</b>	Ministry of Fisheries, New Zealand national management
<b>Assessor</b>	National Institute of Water and Atmospheric Research
<b>Asmts in RAM</b>	2013, 2006

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2006	28,246
<b>SSBmsy</b>	SSBmsy-MT	2013	17,680
<b>Fmsy</b>	Fmsy-1/yr	2006	0.32
<b>ERmsy</b>	ERmsy-ratio	2006	0.119
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2013	22,984
<b>Fmgt</b>	Fmgt-1/yr	2013	0.215
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2013	44,200
<b>MSY</b>	MSY-MT	2006	3372
<b>M</b>	M-1/yr	2013	0.2
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

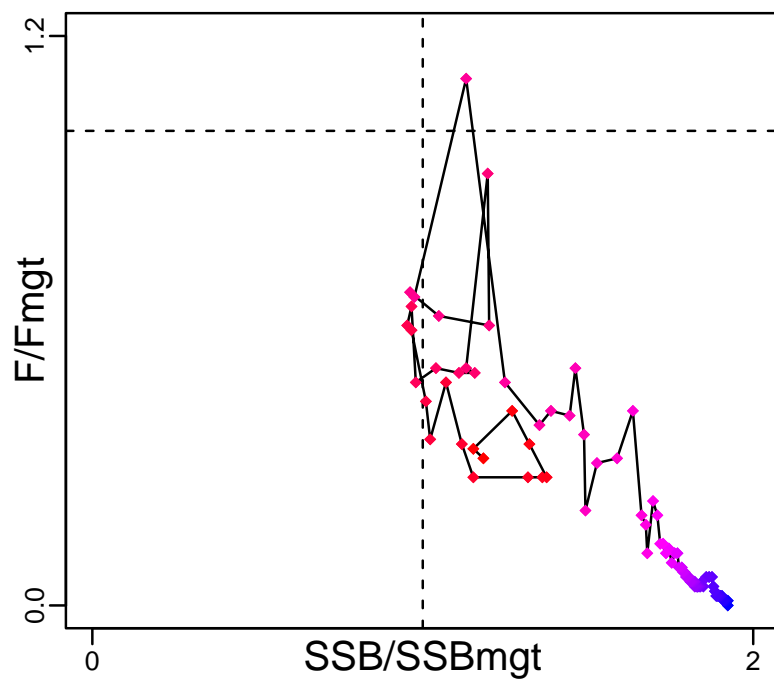
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2006	22,600	-	1+
<b>SSB</b>	SSB-MT	2013	27,200	-	4 to 20
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	7,430,000	Both	-
<b>F</b>	F-1/yr	2013	0.07	Both	-
<b>ER</b>	ER-ratio	2006	0.099	-	-
<b>TC</b>	TC-MT	2013	1680		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT	2006	0.8		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2013	1.538		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2006	0.328		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2006	0.83		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2013	1.183		
<b>F/Fmgt</b>	FdivFmgt-dimensionless	2013	0.31		
<b>ER/ERmgt</b>	-	-	-		

# Australian salmon New Zealand [AUSSALMONNZ]

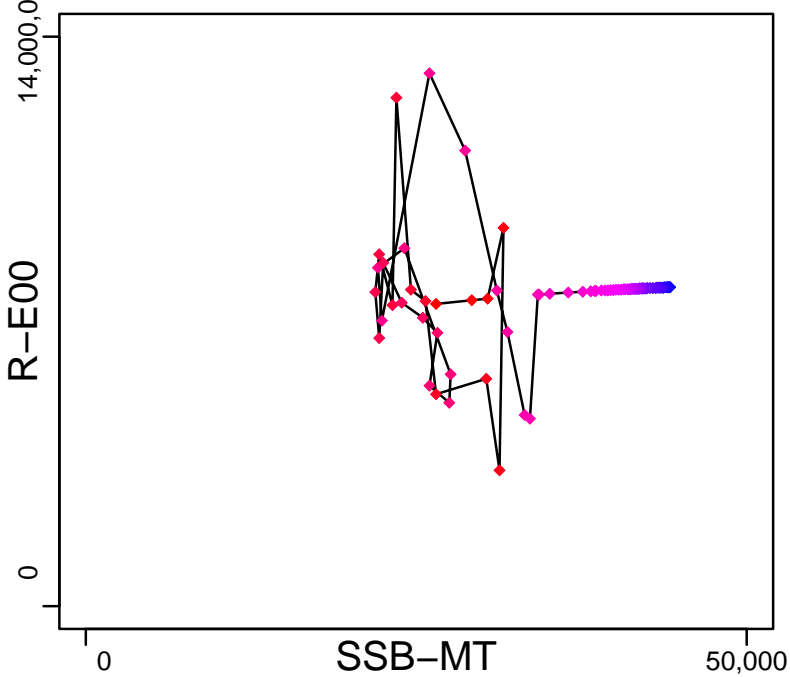
Kobe MSYpref (1929–2013–FU)



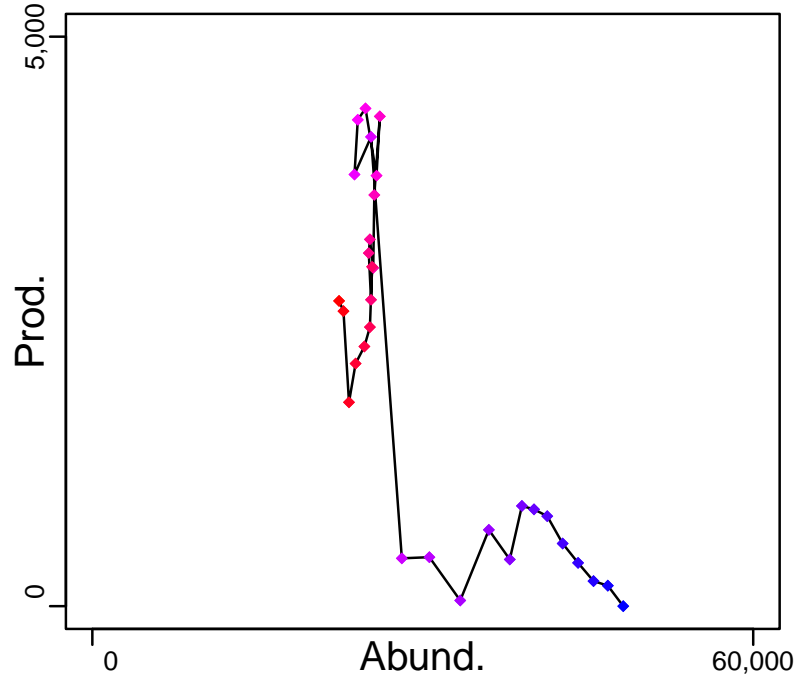
Kobe MGTpref (1929–2013–FU)



Spawner Recruit (1929–2013–FU)



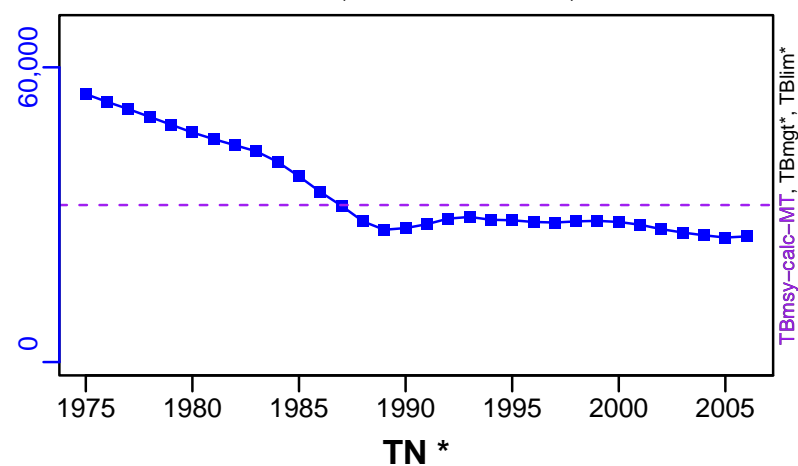
Production (1975–2006–JENSEN)



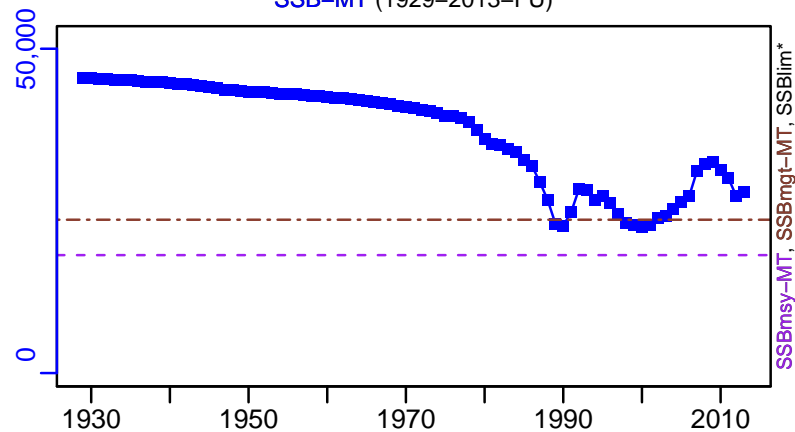
◆ Start Year ◆ End Year \* No Data

# Australian salmon New Zealand [AUSSALMONNZ]

TB-MT (1975–2006–JENSEN)



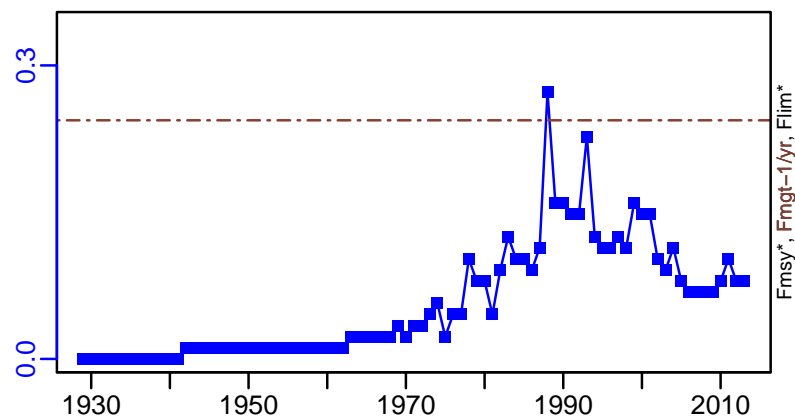
SSB-MT (1929–2013–FU)



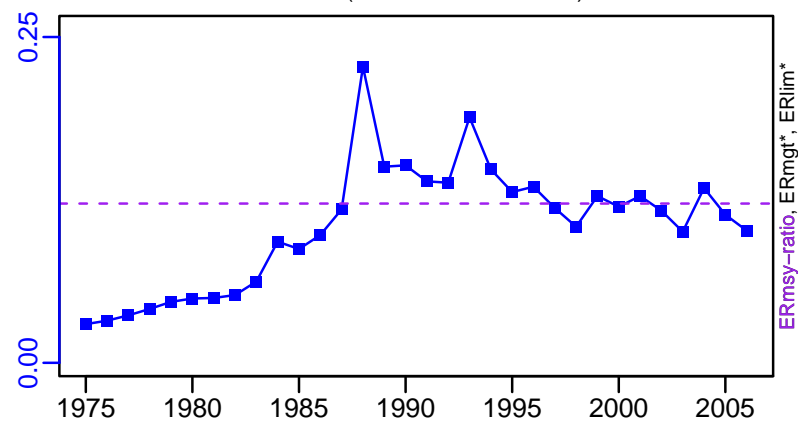
TN \*



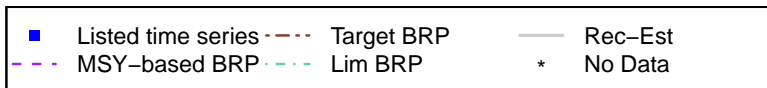
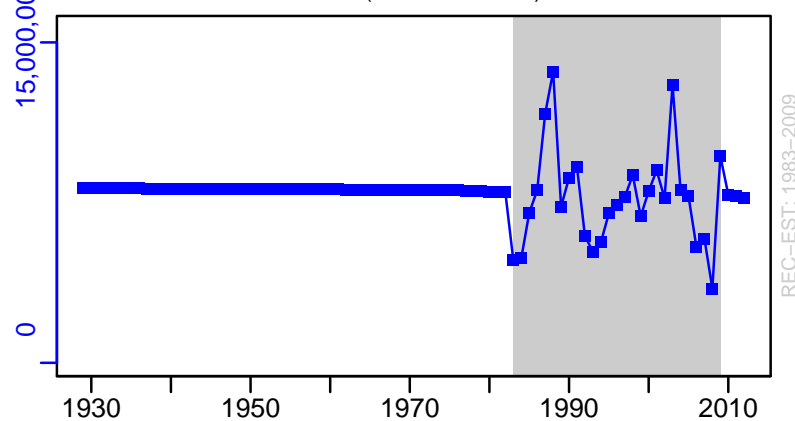
F-1/yr (1929–2013–FU)



ER-ratio (1975–2006–JENSEN)

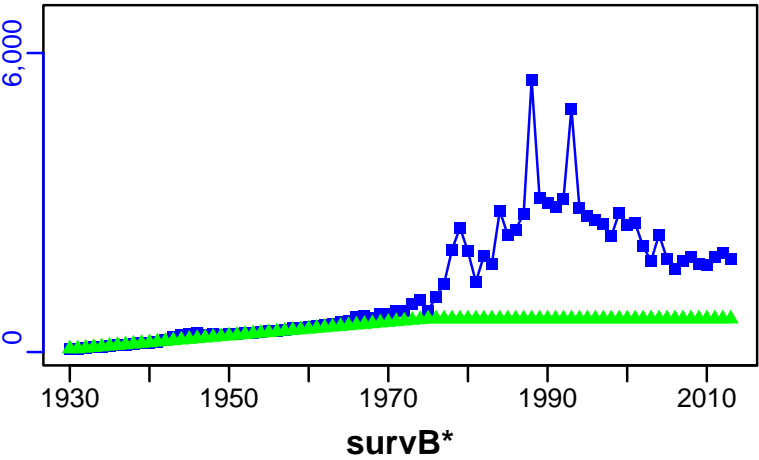


R-E00 (1929–2013–FU)

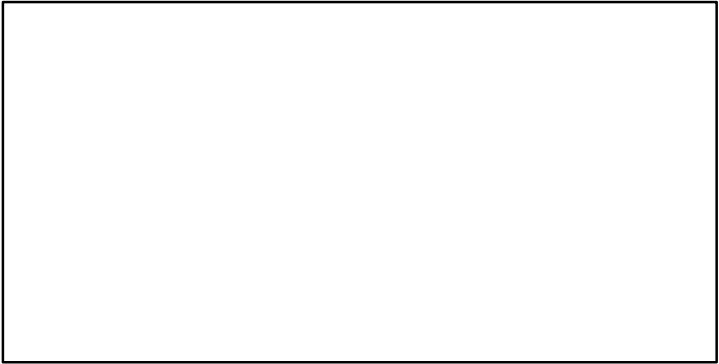
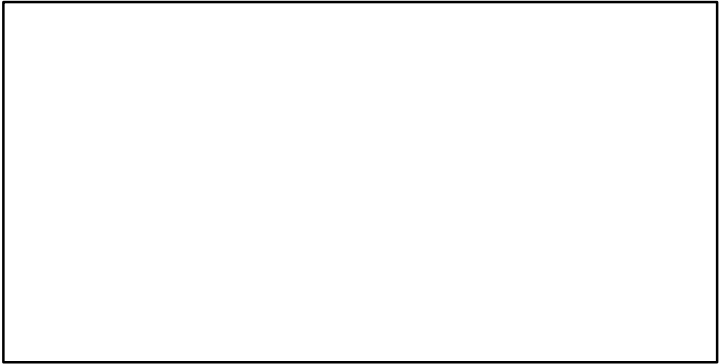
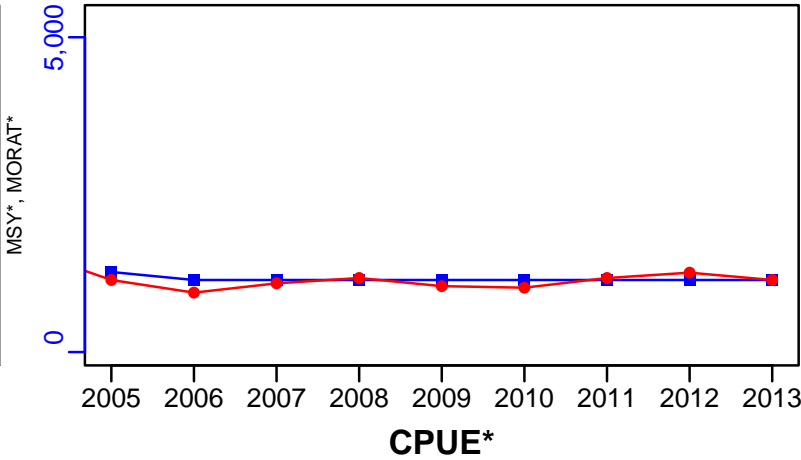


Australian salmon New Zealand [AUSSALMONNZ]

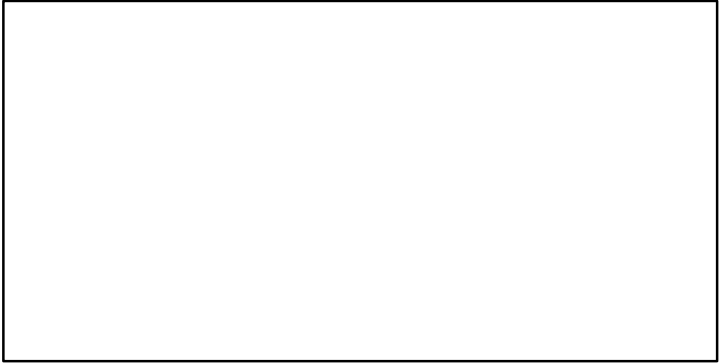
TC-MT, TL\*, RecC-MT (1929-2013-FU)



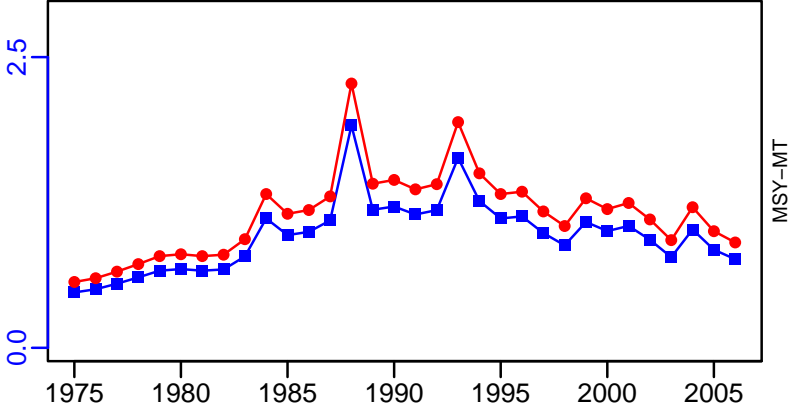
TAC-MT, Cpair-MT, Cadv\* (1929-2013-FU)



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1975-2006-JENSEN)

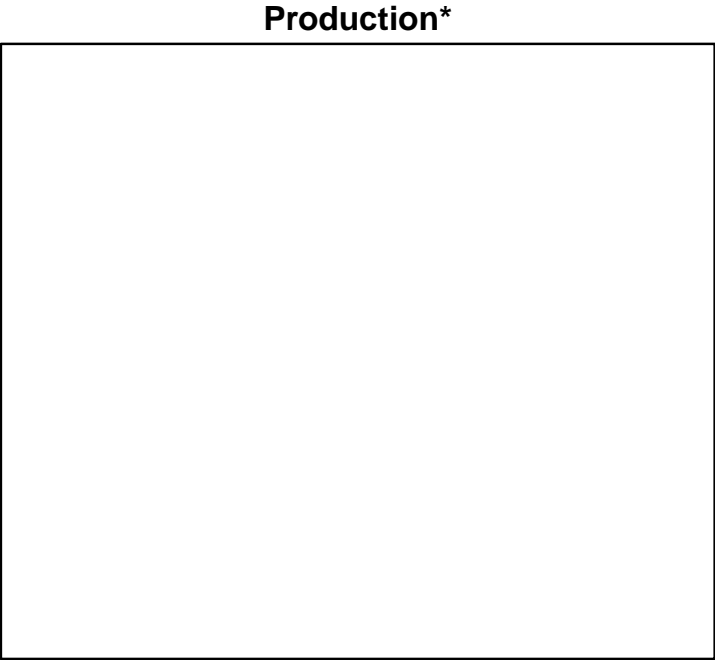
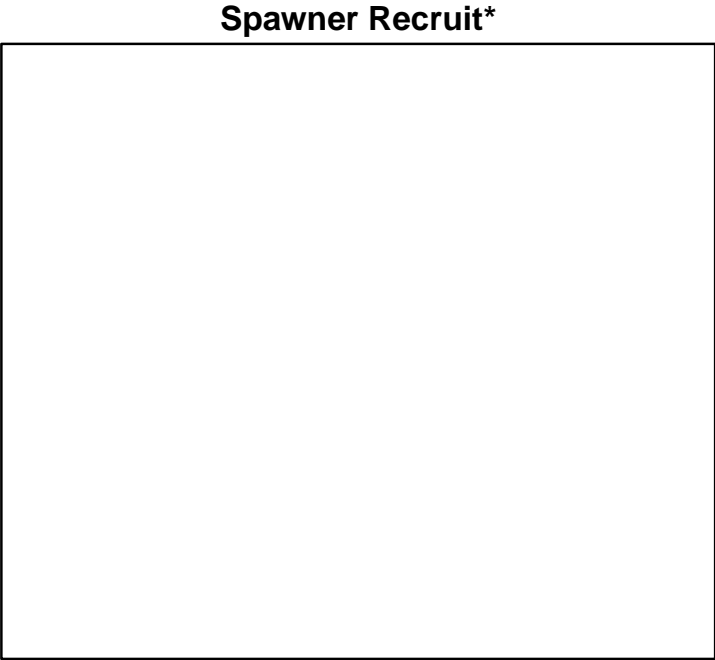
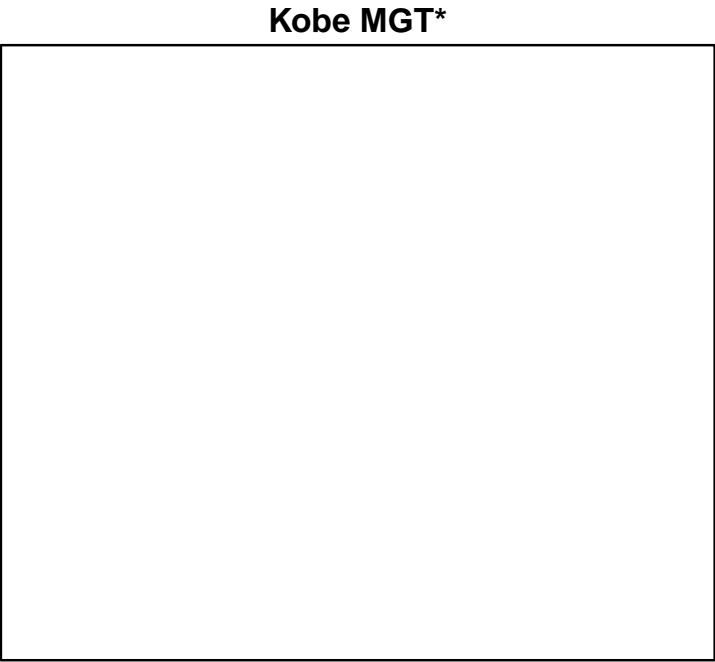
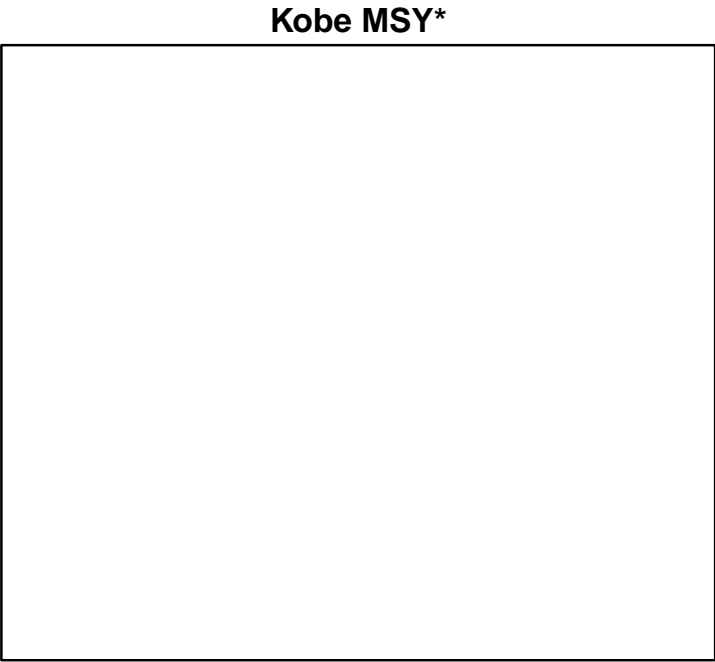


## Axillary seabream North West Africa [AXBRMNA]

Metadata	
<b>Scientific Name</b>	Pagellus acarne
<b>Current Assess ID</b>	FAO-DR-AXBRMNA-1990-2016-ASHBROOK
<b>Area</b>	North West Africa
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	1598		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year   ♦ End Year   \* No Data

Axillary seabream North West Africa [AXBRMNWA]

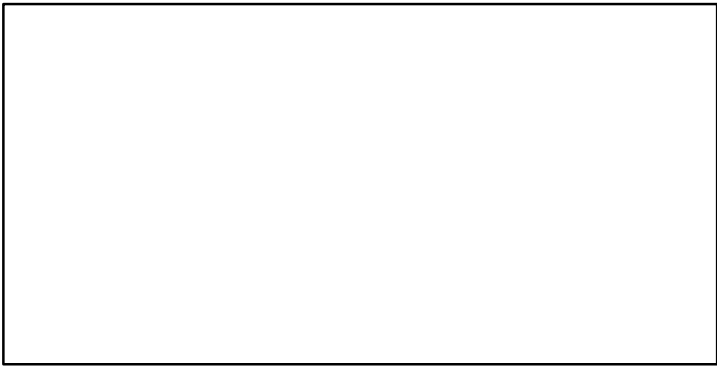
TB\*



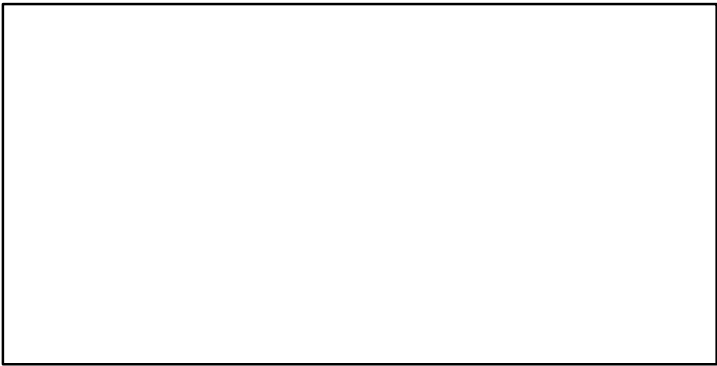
SSB\*



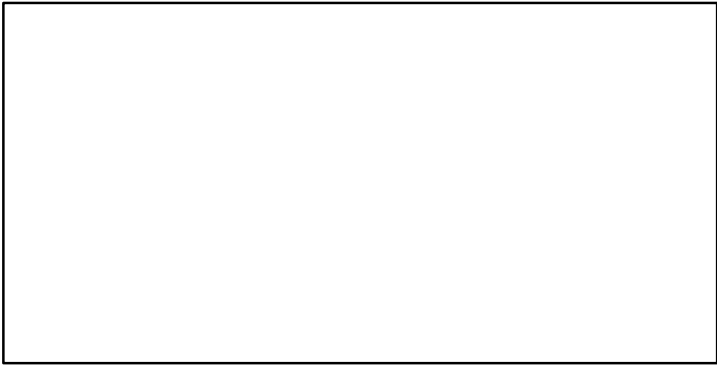
TN \*



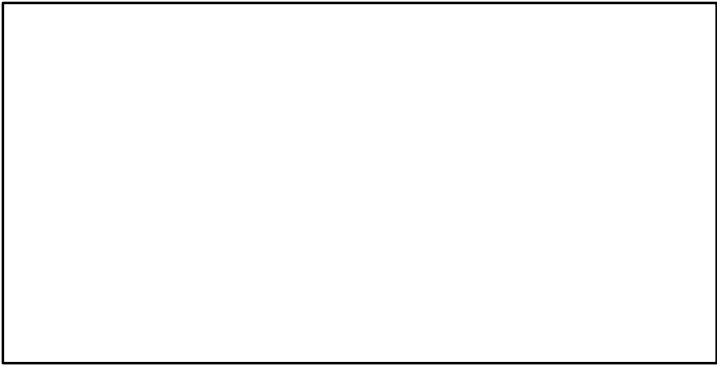
F\*



ER\*



Recruits\*



■ Listed time series

--- MSY-based BRP

--- Target BRP

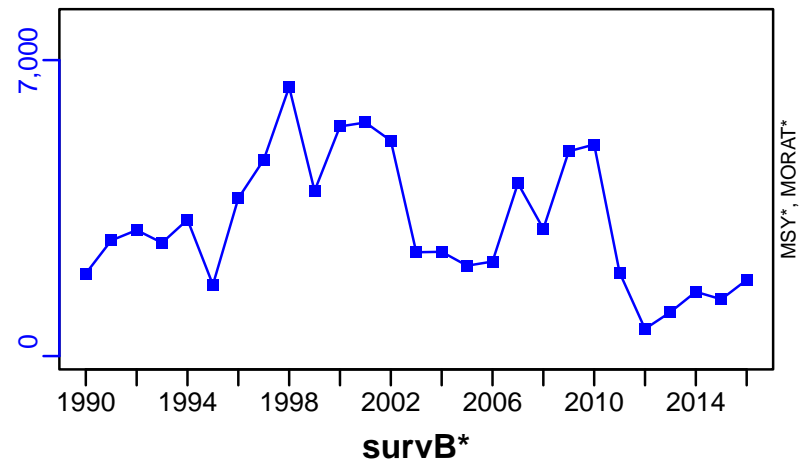
--- Lim BRP

— Rec-Est

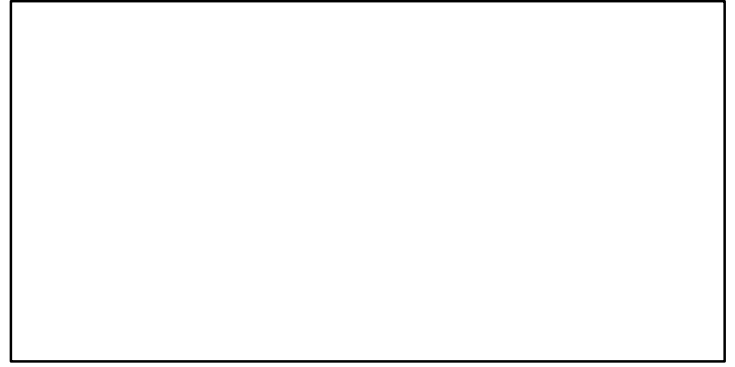
\* No Data

# Axillary seabream North West Africa [AXBRMNA]

TC-MT, TL\*, RecC\* (1990–2016–ASHBROOK)



TAC\*, Cpair\*, Cadv\*



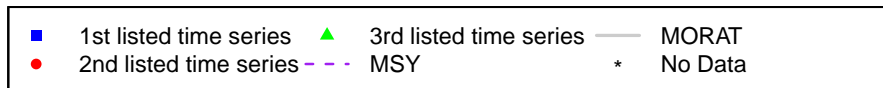
CPUE\*



EFFORT\*



CdivMSY\*





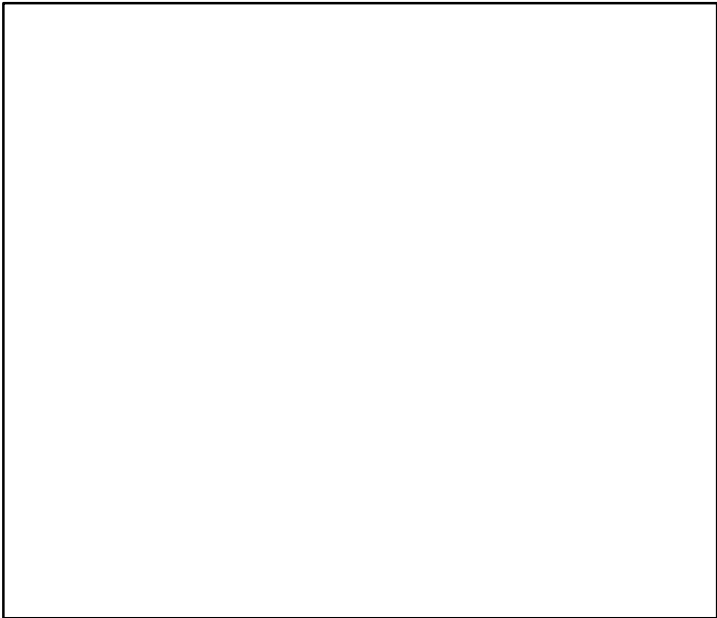
## Bobo croaker Central West Africa Guinea-Liberia [BCROAKCWAGIN-LBR]

Metadata	
<b>Scientific Name</b>	Pseudotolithus elongatus
<b>Current Assess ID</b>	FAO-DR-BCROAKCWAGIN-LBR-1994-2007-CHING
<b>Area</b>	Central West Africa Guinea-Liberia
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	9070		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

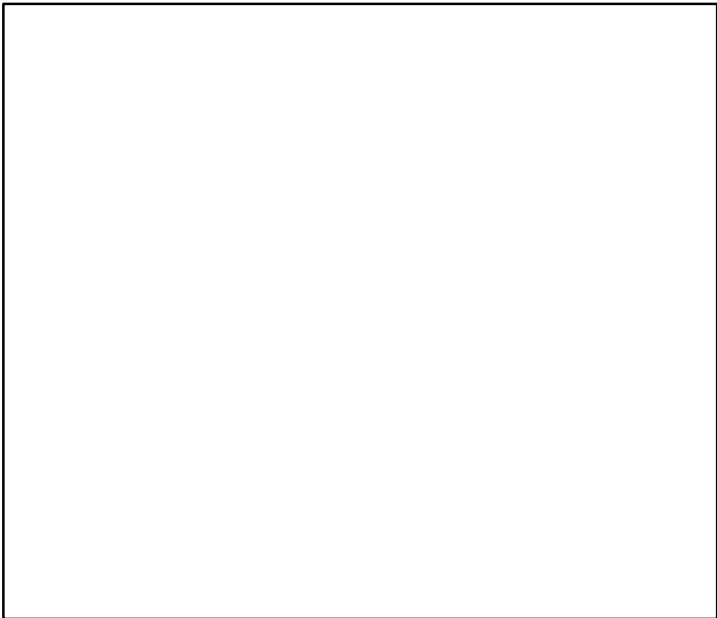
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



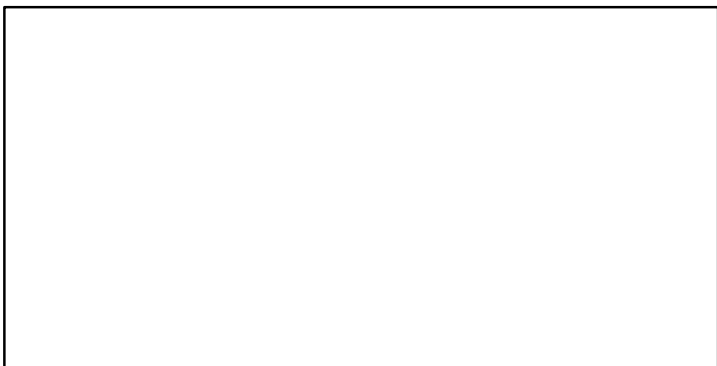
Production\*



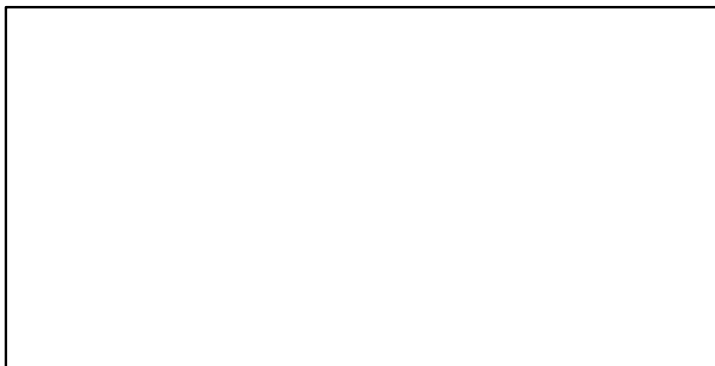
◆ Start Year ◆ End Year \* No Data

Bobo croaker Central West Africa Guinea–Liberia [BCROAKCWAGIN–LBR]

**TB\***



**SSB\***



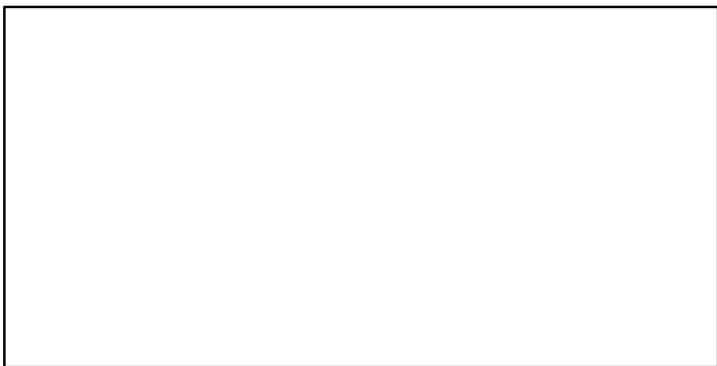
**TN \***



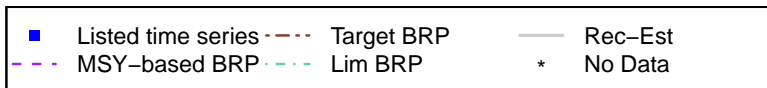
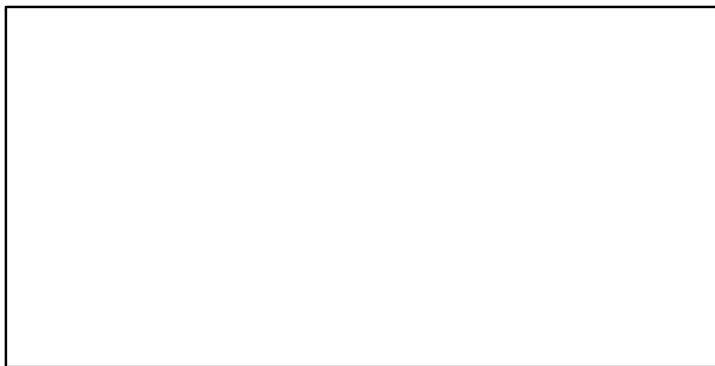
**F\***



**ER\***



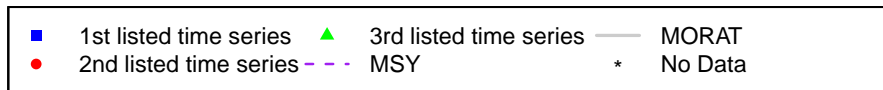
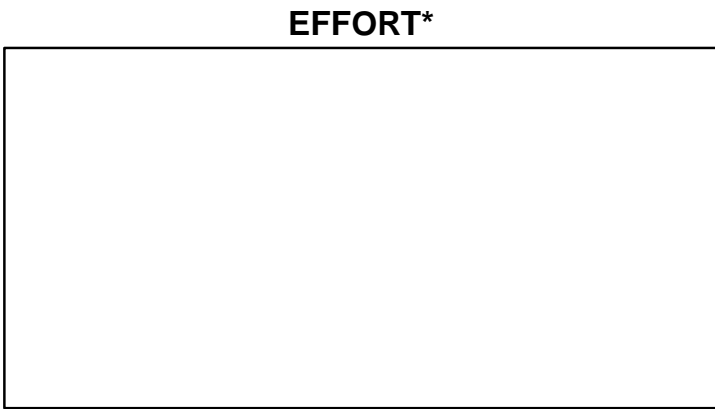
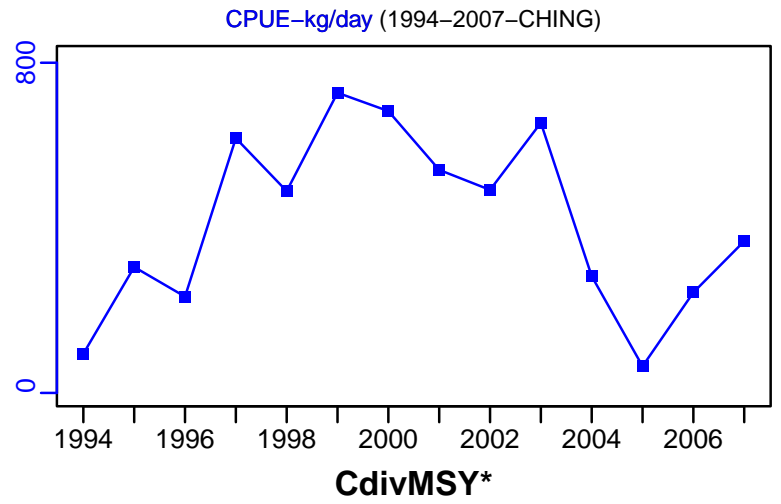
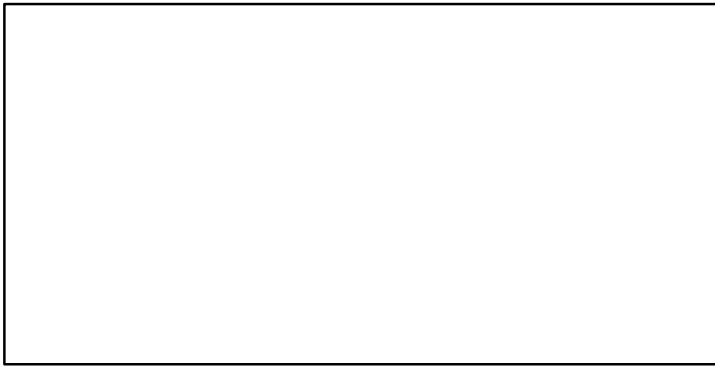
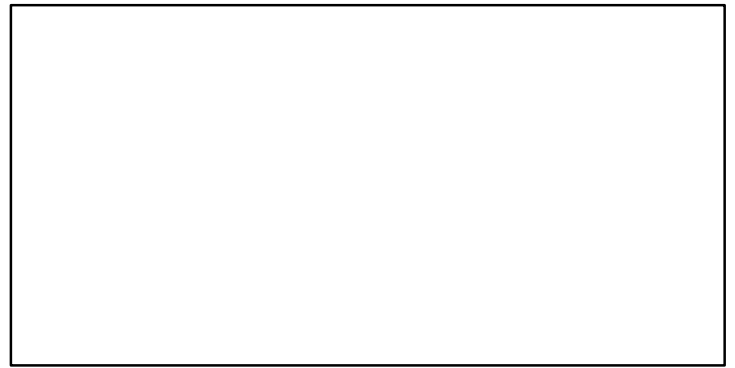
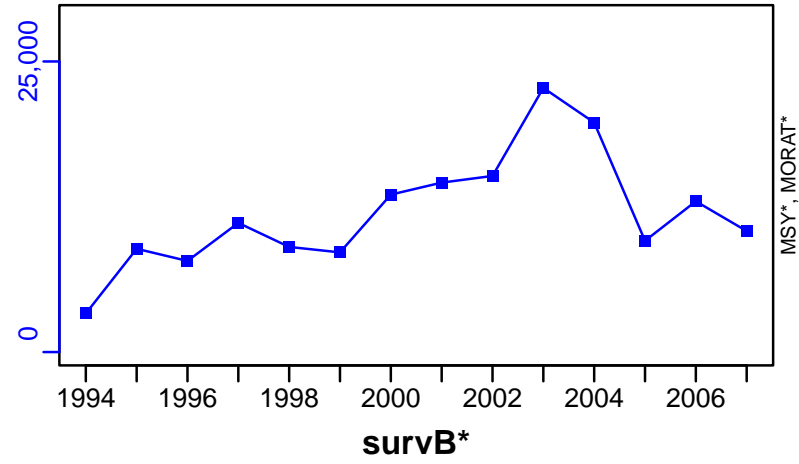
**Recruits\***



# Bobo croaker Central West Africa Guinea-Liberia [BCROAKCWAGIN-LBR]

TC-MT, TL\*, RecC\* (1994-2007-CHING)

TAC\*, Cpair\*, Cadv\*



## Bigeye grunt Central West Africa Cote Divoire-Benin [BGRUNTCWACIV-BEN]

Metadata	
<b>Scientific Name</b>	Brachydeuterus auritus
<b>Current Assess ID</b>	FAO-DR-BGRUNTCWACIV-BEN-1990-2006-CHING
<b>Area</b>	Central West Africa Cote Divoire-Benin
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2006

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2006	21,400		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

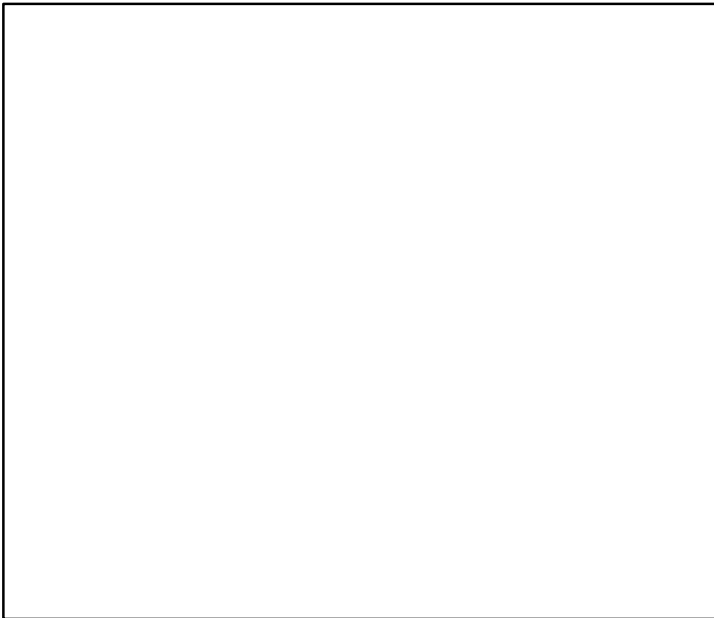
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

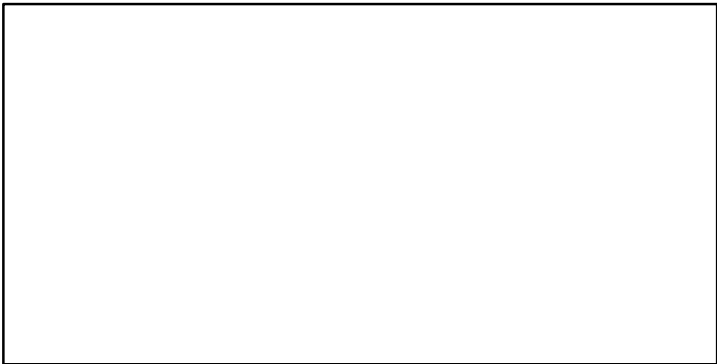
TB\*



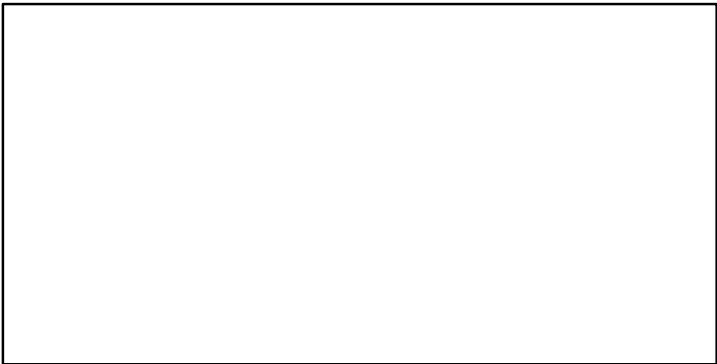
SSB\*



TN \*



F\*



ER\*

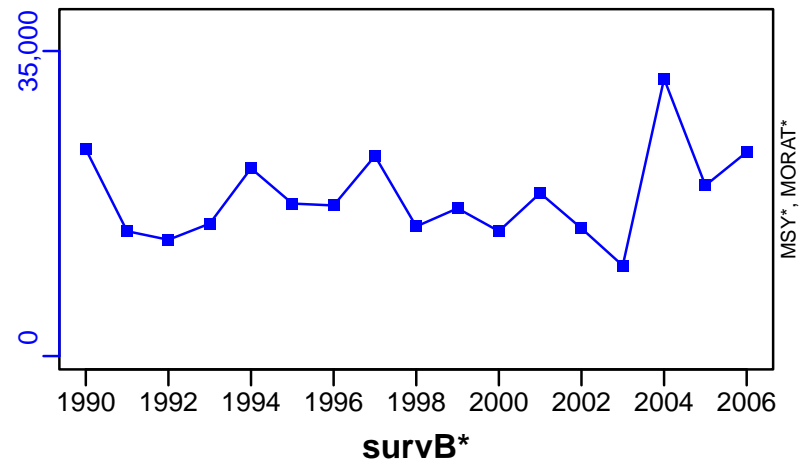


Recruits\*

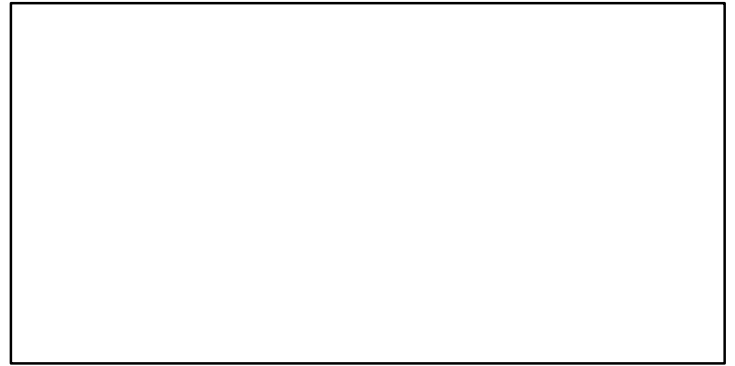


# Bigeye grunt Central West Africa Cote Divoire–Benin [BGRUNTCWACIV–BEN]

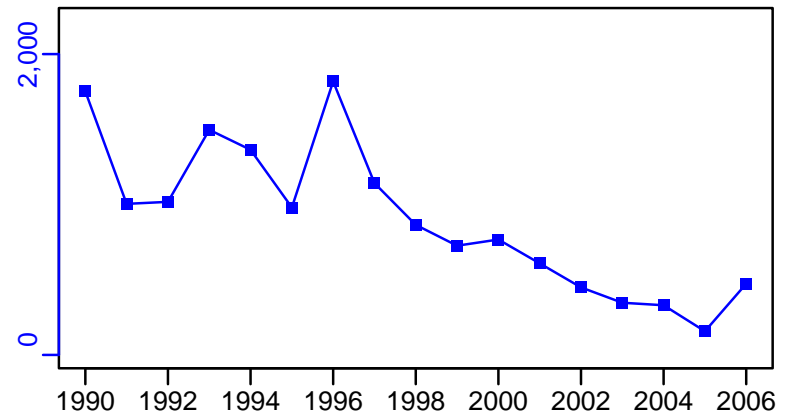
TC–MT, TL\*, RecC\* (1990–2006–CHING)



TAC\*, Cpair\*, Cadv\*



CPUE–kg/day (1990–2006–CHING)



EFFORT\*



CdivMSY\*



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



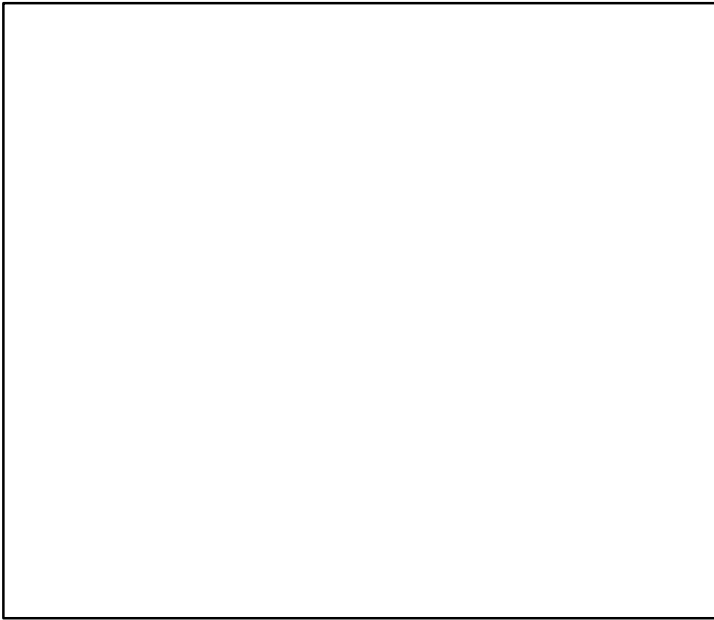
## Bigeye grunt Central West Africa Congo\_Angola [BGRUNTCWACOG\_AGO]

Metadata	
<b>Scientific Name</b>	Brachydeuterus auritus
<b>Current Assess ID</b>	FAO-DR-BGRUNTCWACOG_AGO-1995-2007-CHING
<b>Area</b>	Central West Africa Congo_Angola
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

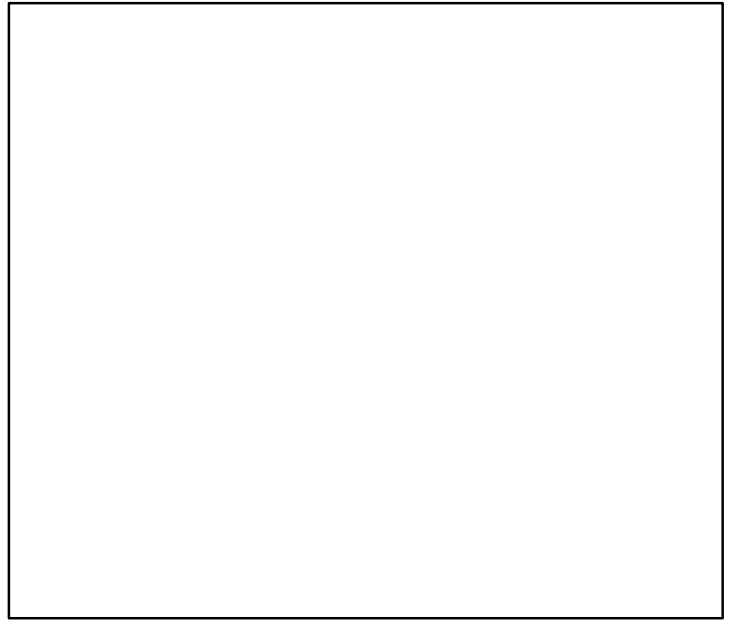
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	144	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	4790		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

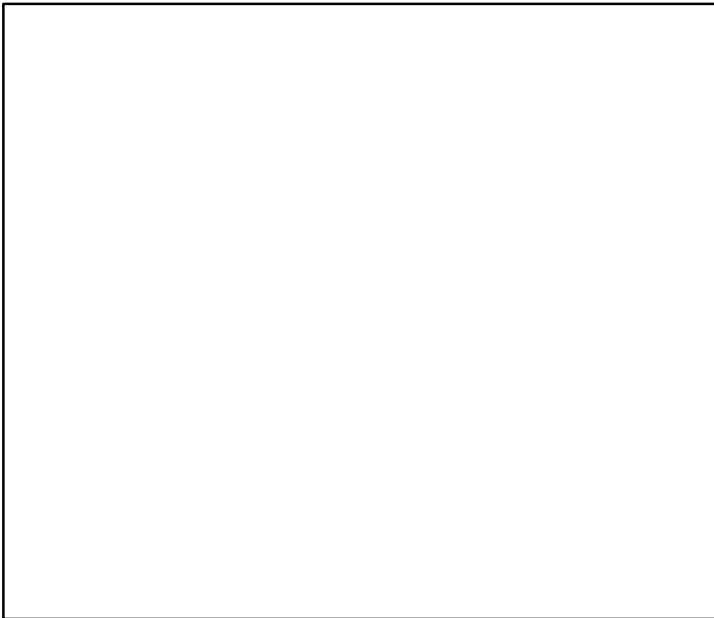
**Kobe MSY\***



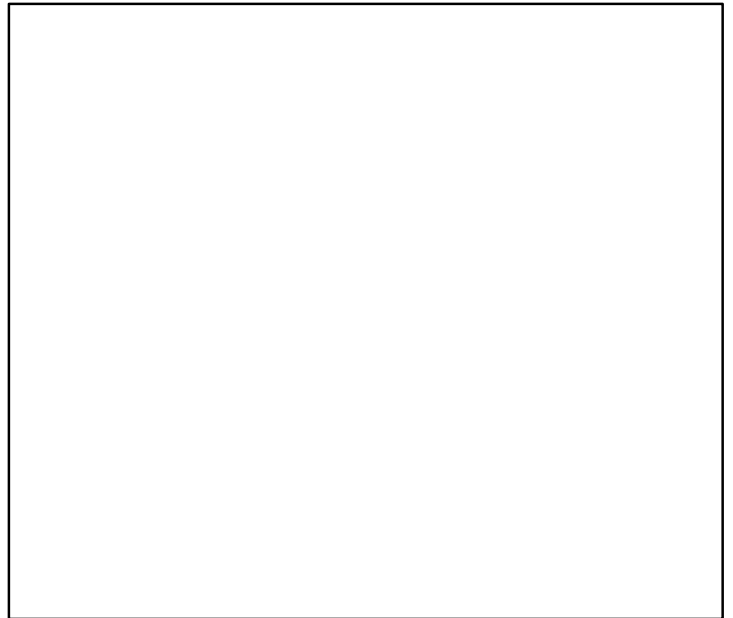
**Kobe MGT\***



**Spawner Recruit\***



**Production\***

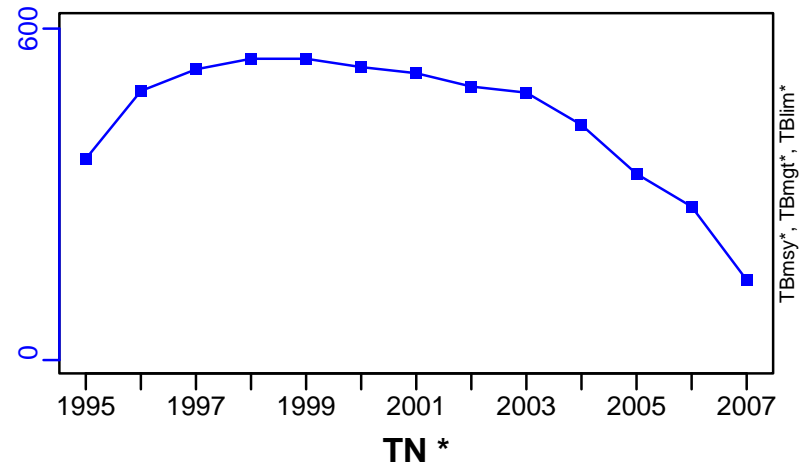


◆ Start Year ◆ End Year \* No Data

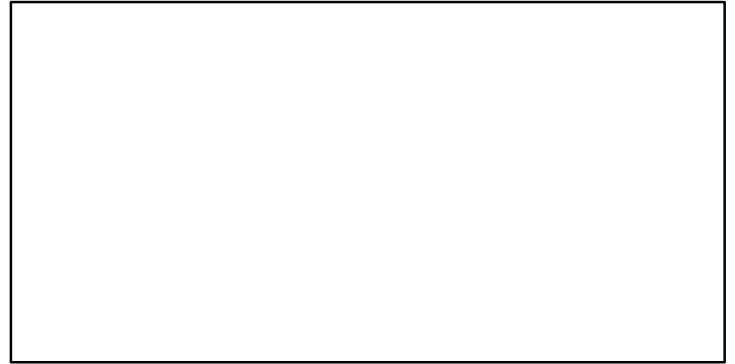
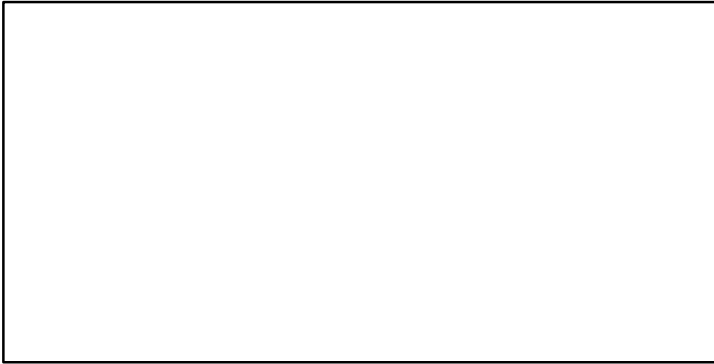
# Bigeye grunt Central West Africa Congo\_Angola [BGRUNTCWACOG\_AGO]

TB-index (1995–2007–CHING)

SSB\*

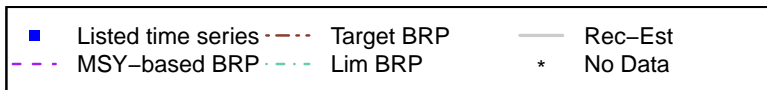
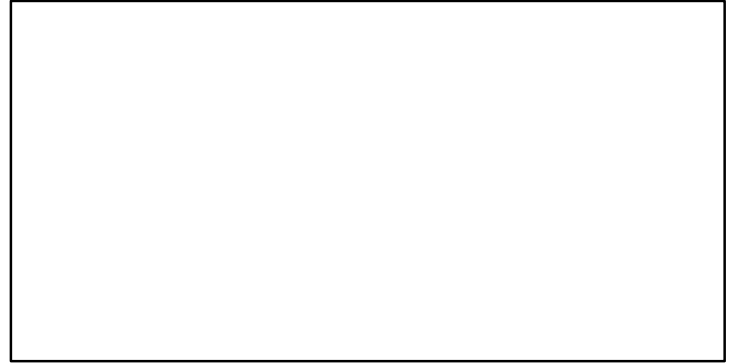
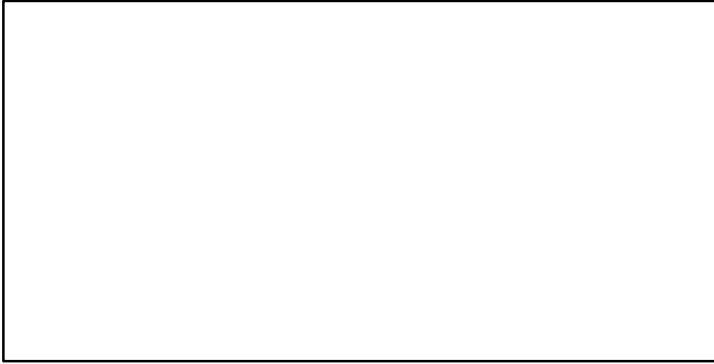


F\*



ER\*

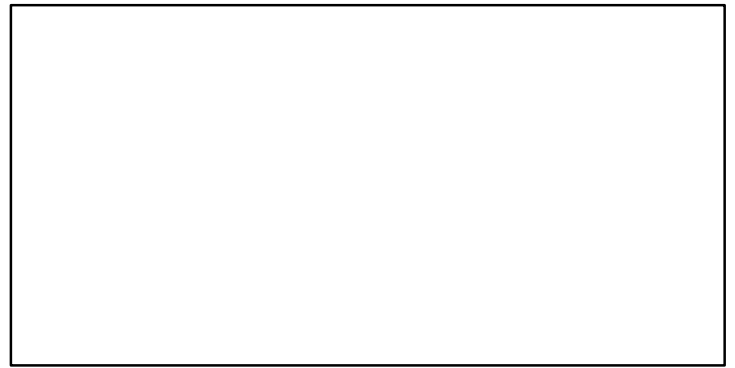
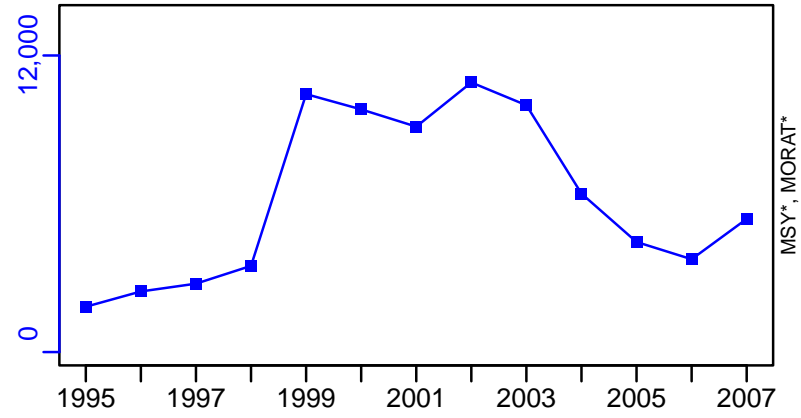
Recruits\*



# Bigeye grunt Central West Africa Congo\_Angola [BGRUNTCWACOG\_AGO]

TC-MT, TL\*, RecC\* (1995-2007-CHING)

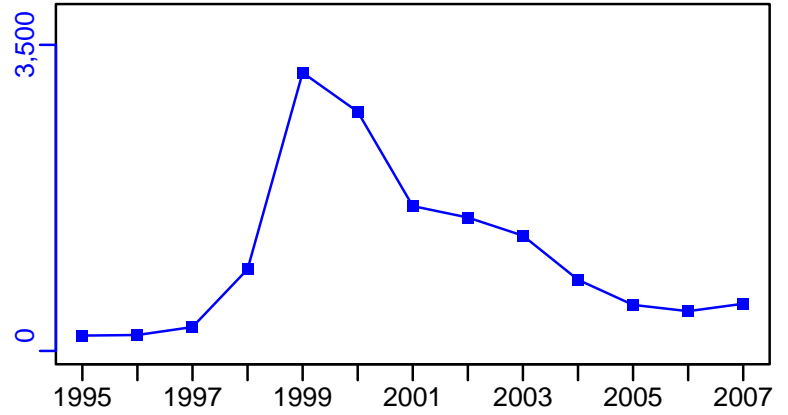
TAC\*, Cpair\*, Cadv\*



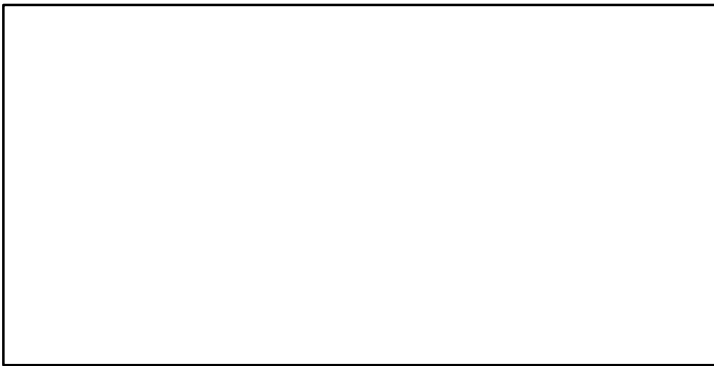
survB\*



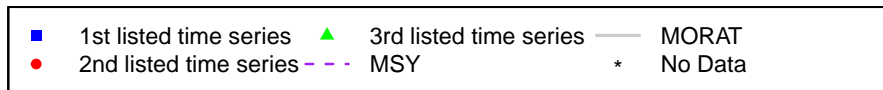
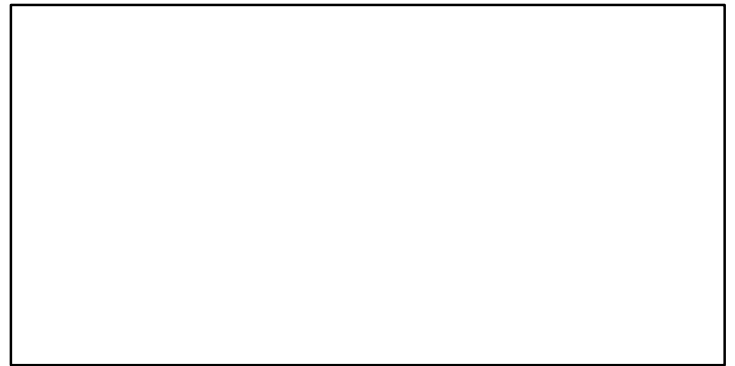
CPUE-kg/day (1995-2007-CHING)



EFFORT\*



CdivMSY\*



## Black cardinalfish East coast of North Island [BKCDLFENI]

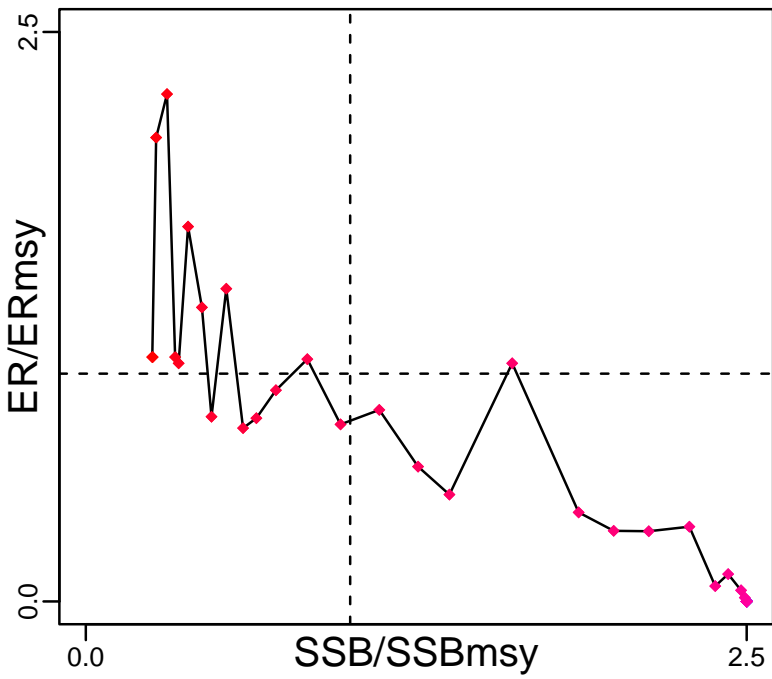
Metadata	
<b>Scientific Name</b>	Epigonus telescopus
<b>Current Assess ID</b>	NIWA-BKCDLFENI-1923-2009-CORDUE
<b>Area</b>	East coast of North Island
<b>Management Authority</b>	Ministry of Fisheries, New Zealand national management
<b>Assessor</b>	National Institute of Water and Atmospheric Research
<b>Asmts in RAM</b>	2009

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2009	6055
<b>SSBmsy</b>	SSBmsy-MT	2009	14,322
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2009	0.11
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2009	14,322
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2009	35,804
<b>MSY</b>	MSY-MT	2009	666
<b>M</b>	M-1/yr	2009	0.04
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

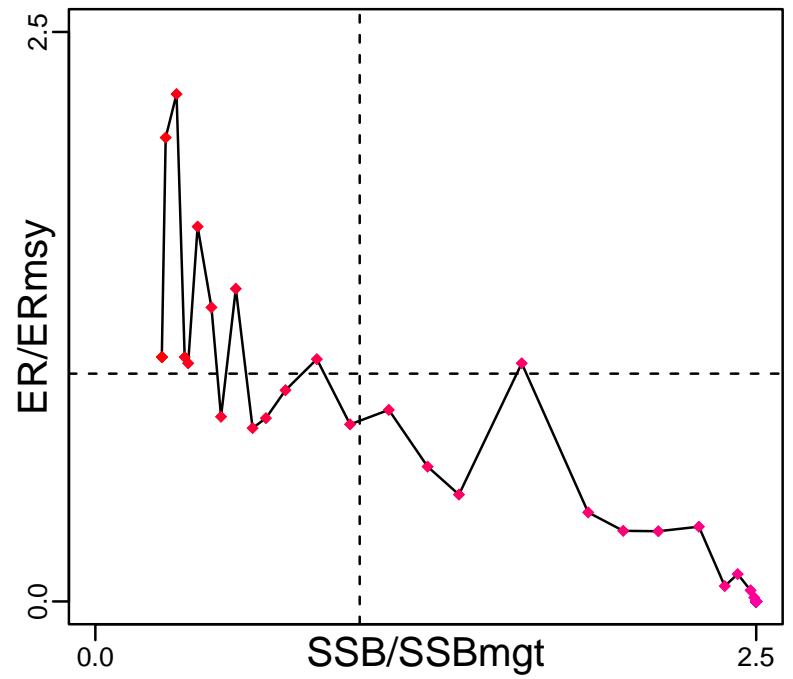
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2009	3620	Both	39.5
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2009	982,000	-	1
<b>F</b>	F-1/yr	2009	0.457	-	-
<b>ER</b>	ER-ratio	2009	0.118	-	-
<b>TC</b>	TC-MT	2009	980		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2009	0.253		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2009	4.16		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2009	1.073		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2009	0.253		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Black cardinalfish East coast of North Island [BKCDLFENI]

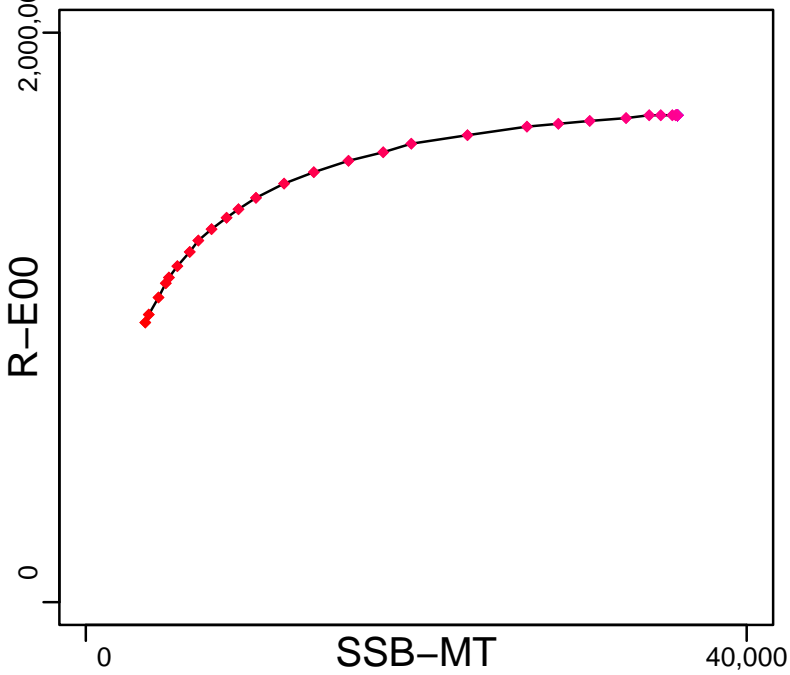
Kobe MSYpref (1923–2009–CORDUE)



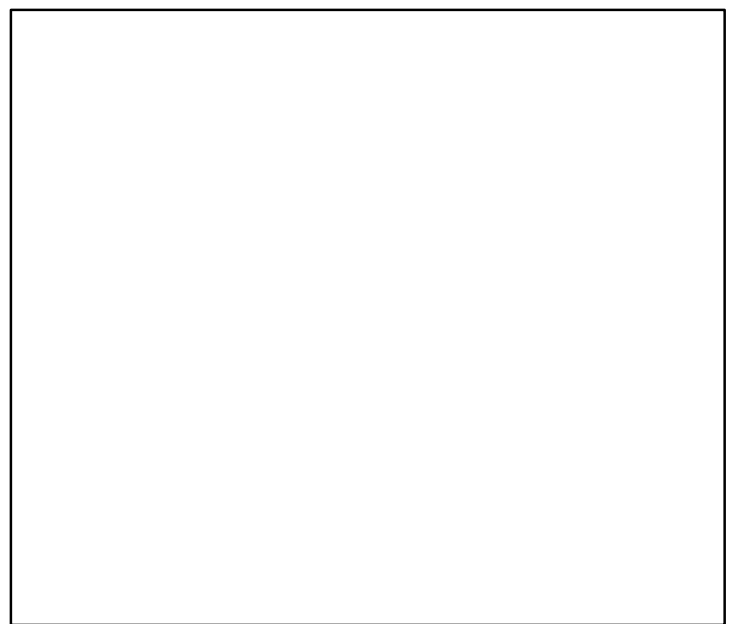
Kobe MGTpref (1923–2009–CORDUE)



Spawner Recruit (1923–2009–CORDUE)



Production\*



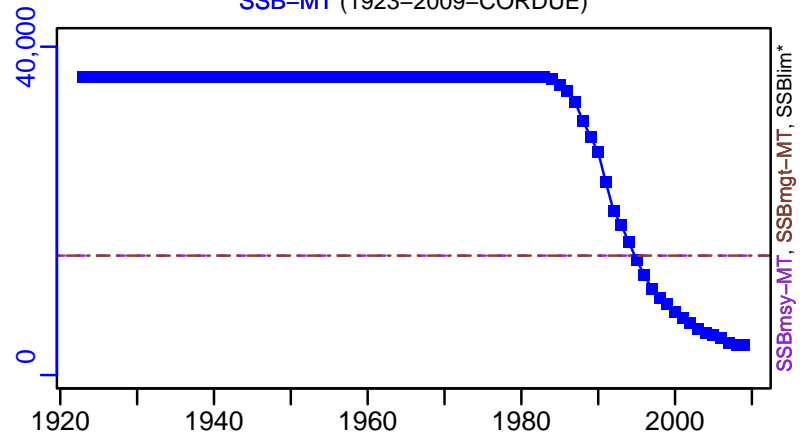
◆ Start Year ◆ End Year \* No Data

Black cardinalfish East coast of North Island [BKCDLFENI]

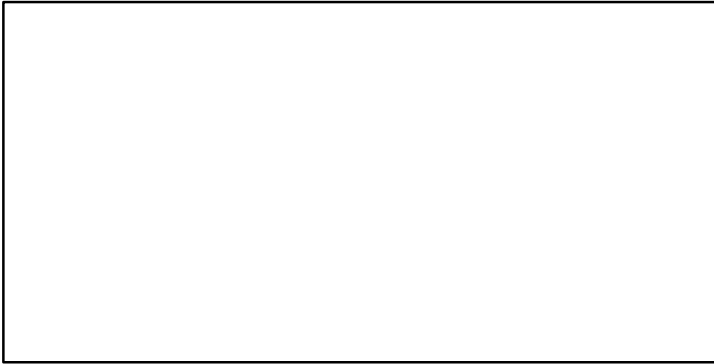
TB\*



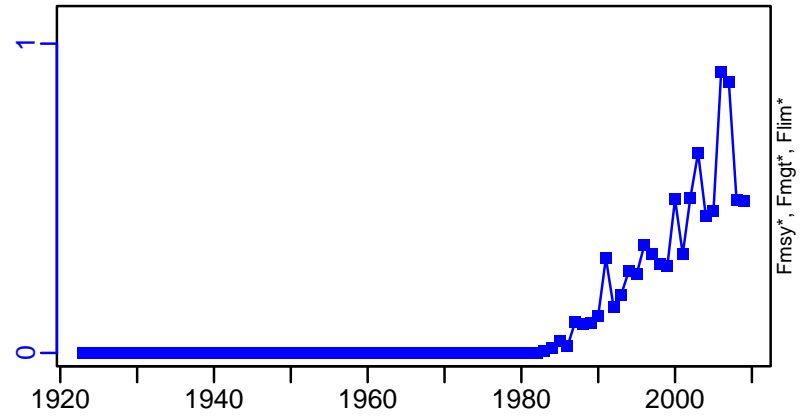
SSB-MT (1923-2009-CORDUE)



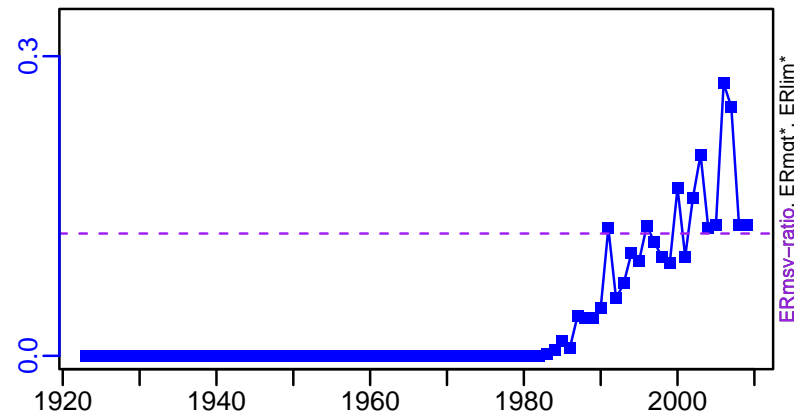
TN \*



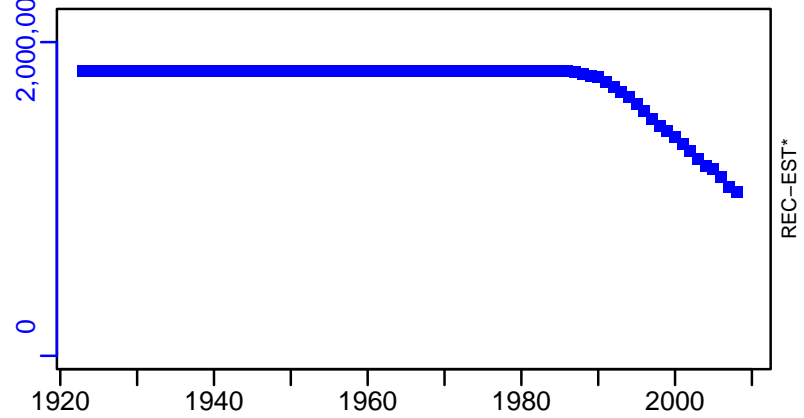
F-1/yr (1923-2009-CORDUE)



ER-ratio (1923-2009-CORDUE)



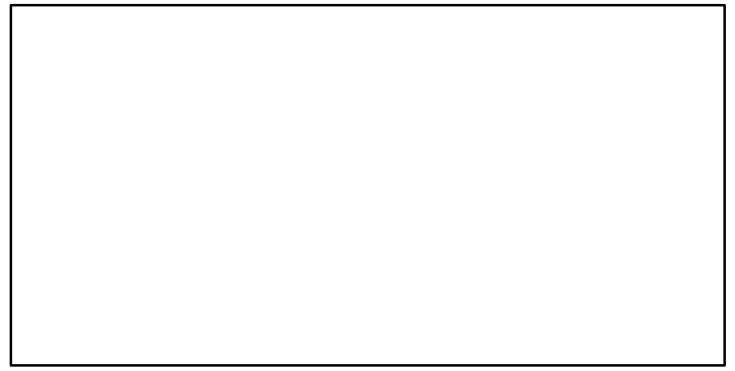
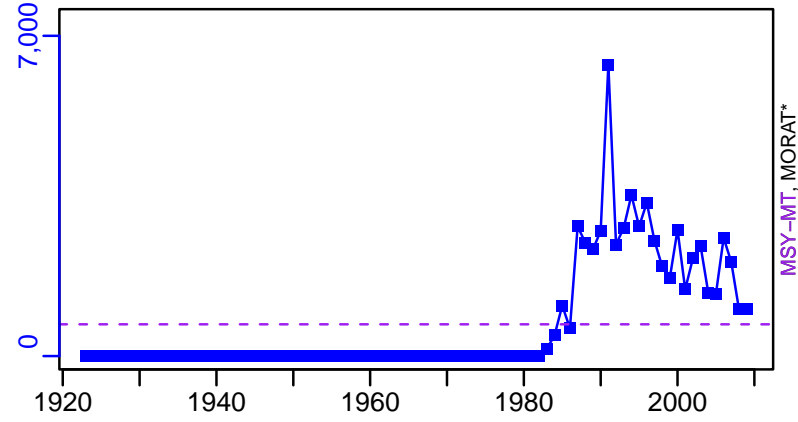
R-E00 (1923-2009-CORDUE)



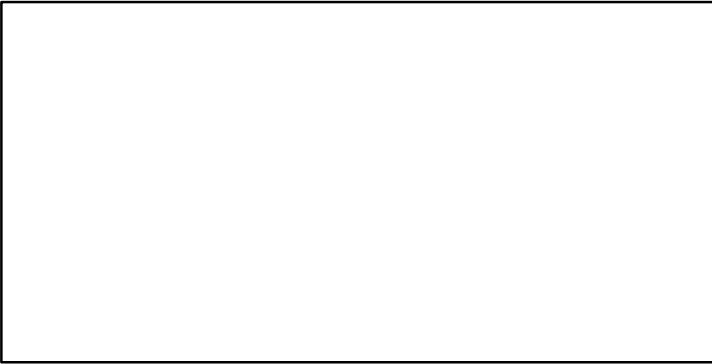
# Black cardinalfish East coast of North Island [BKCDLFENI]

TC-MT, TL\*, RecC\* (1923-2009-CORDUE)

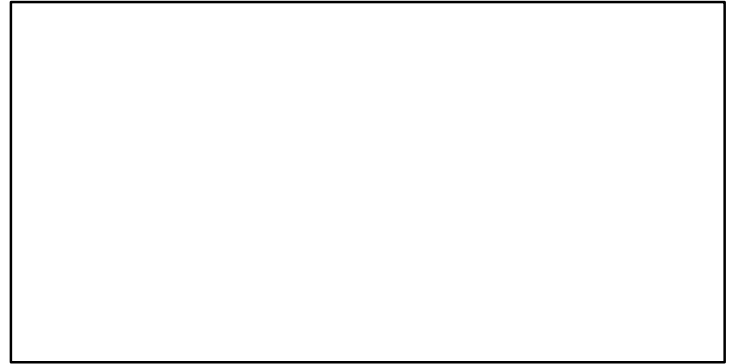
TAC\*, Cpair\*, Cadv\*



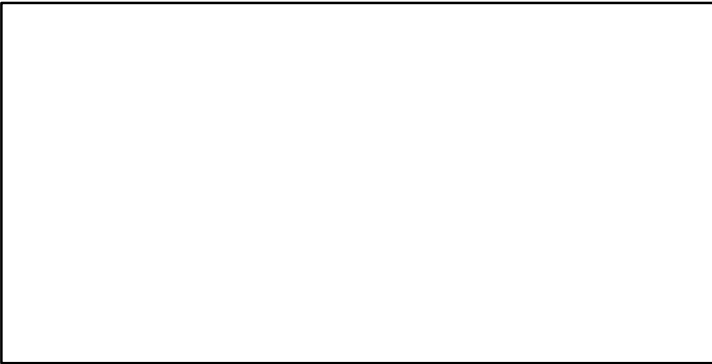
survB\*



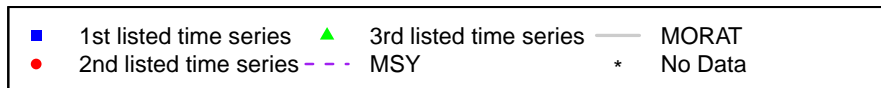
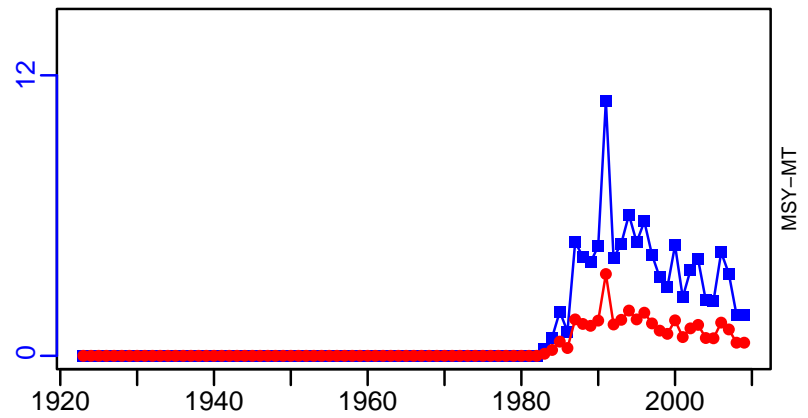
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1923-2009-CORDUE)





## Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPELGMSATL]

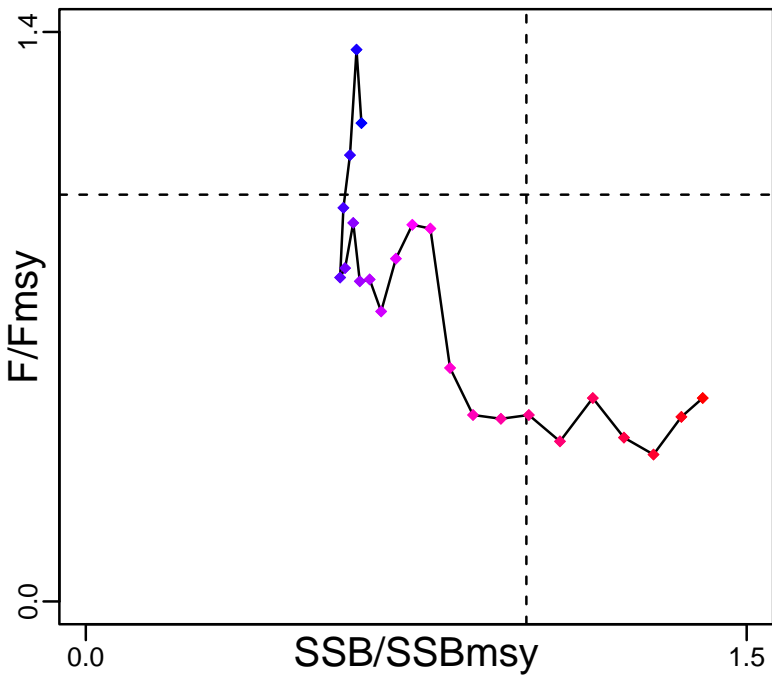
Metadata	
<b>Scientific Name</b>	Mycteroperca bonaci
<b>Current Assess ID</b>	SEFSC-BLACKGROUPELGMSATL-1986-2008-THORSON
<b>Area</b>	Gulf of Mexico and South Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2008

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-pr-MT	2008	2685
<b>Fmsy</b>	Fmsy-pr-1/yr	2008	0.216
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2008	0.136
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

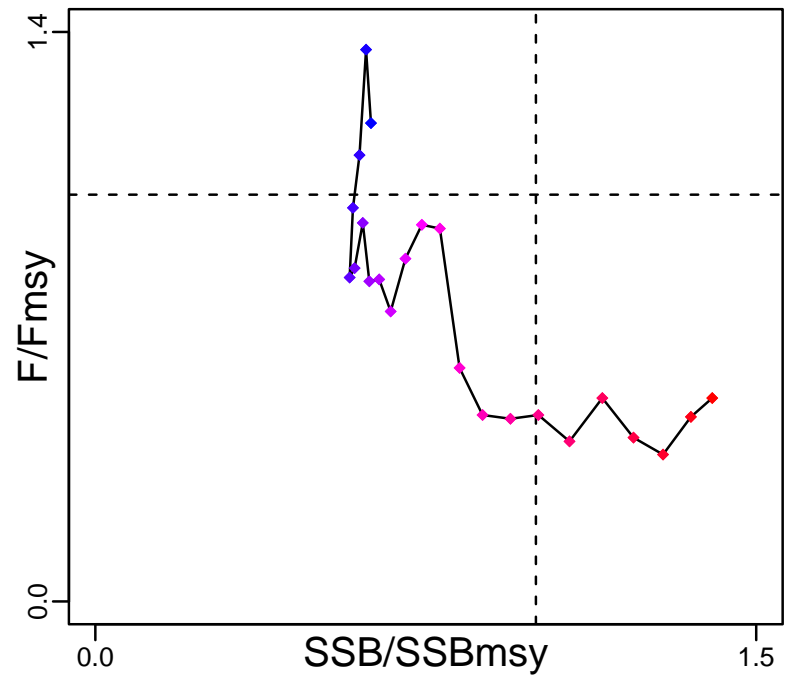
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2008	3760	Both	7+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	169,000	-	1
<b>F</b>	F-1/yr	2008	0.108	Females	5
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2008	138		
<b>TL</b>	TL-MT	2008	99		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-pr-MT	2008	1.4		
<b>F/Fmsy</b>	F-1/yr/Fmsy-pr-1/yr	2008	0.5		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEMGMSATL]

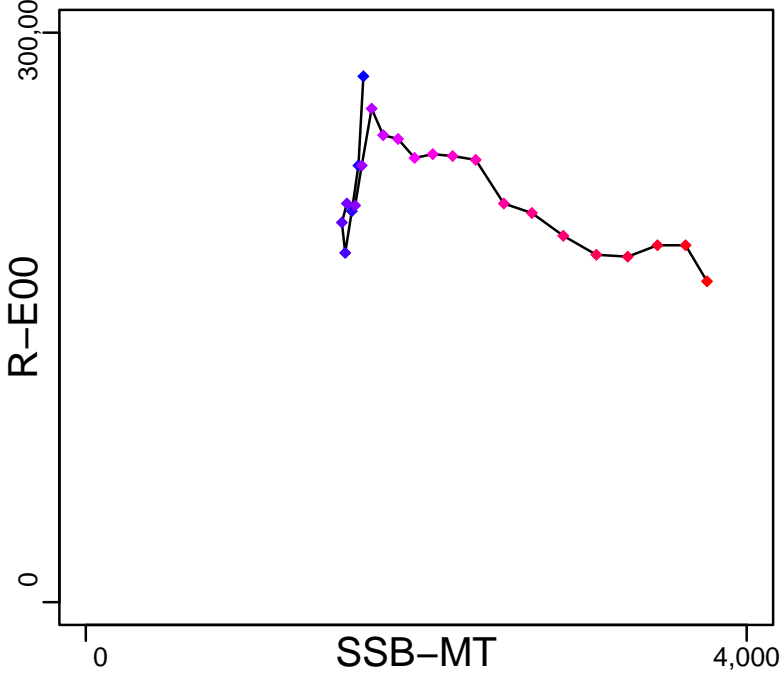
Kobe MSYpref (1986–2008–THORSON)



Kobe MGTpref (1986–2008–THORSON)



Spawner Recruit (1986–2008–THORSON)



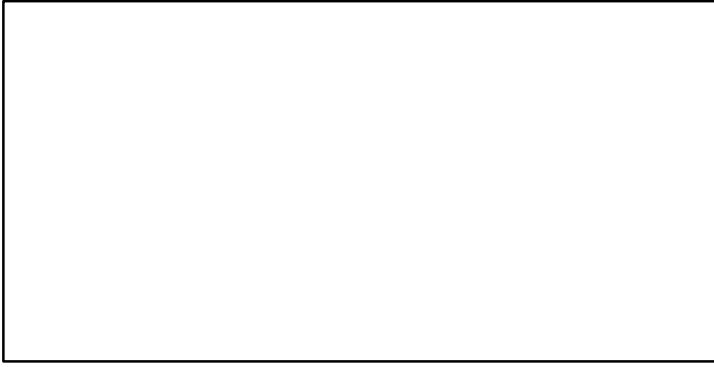
Production\*



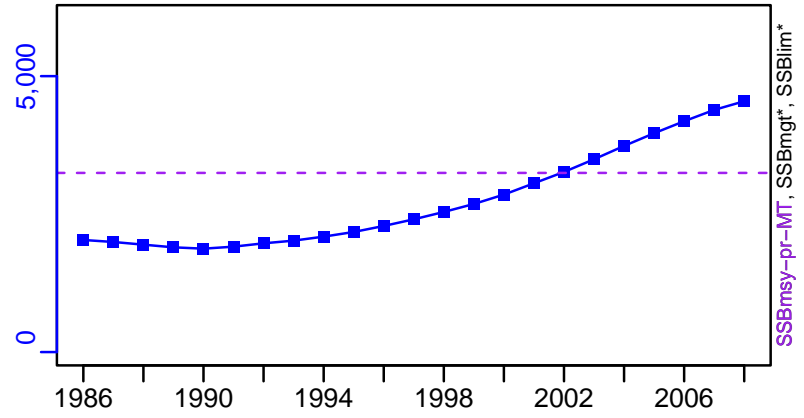
◆ Start Year ◆ End Year \* No Data

# Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPERGMSATL]

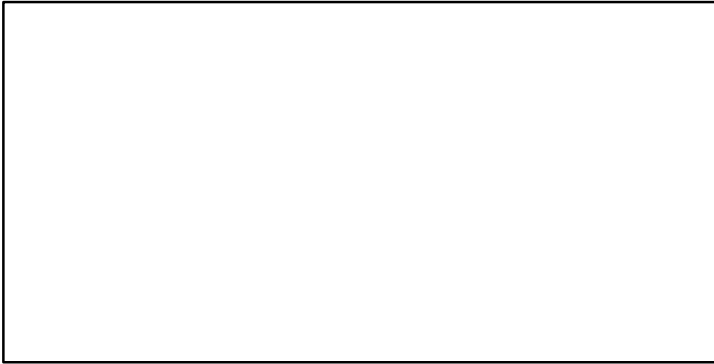
TB\*



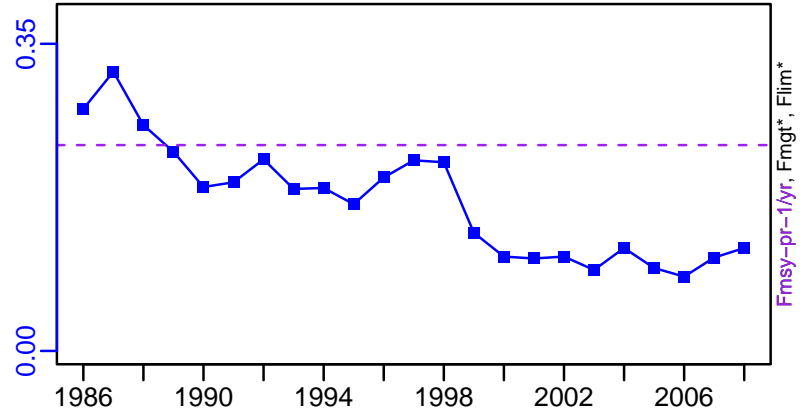
SSB-MT (1986-2008-THORSON)



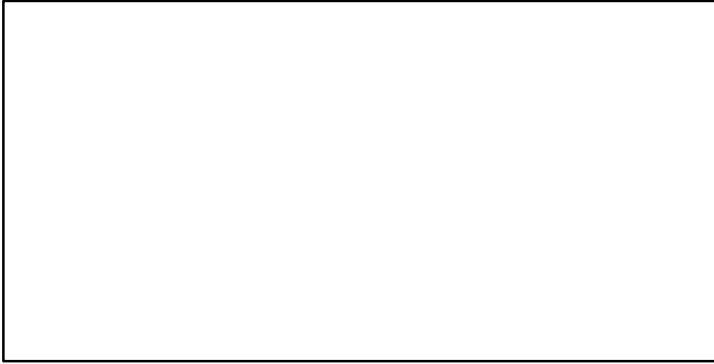
TN \*



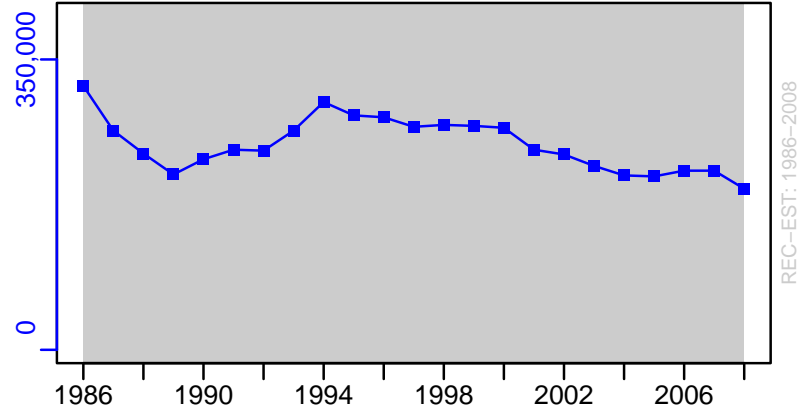
F-1/yr (1986-2008-THORSON)



ER\*

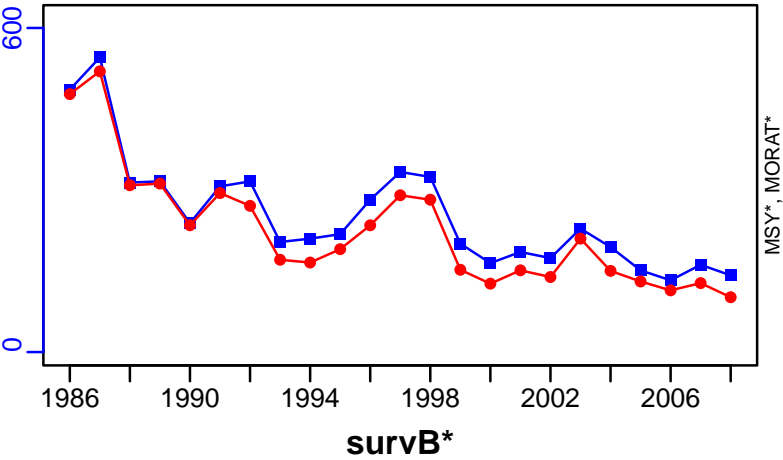


R-E00 (1986-2008-THORSON)



Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEMGMSATL]

TC-MT, TL-MT, RecC\* (1986-2008-THORSON)



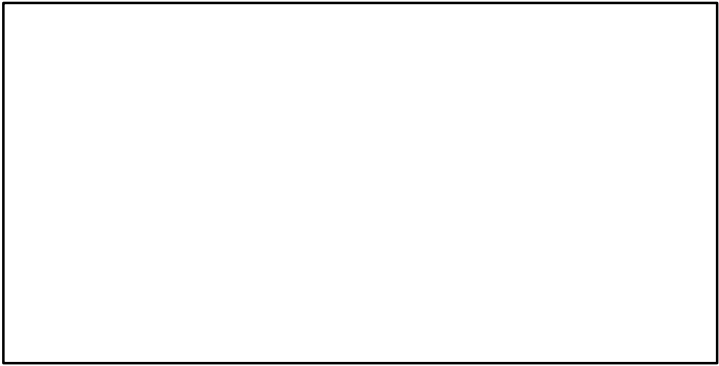
TAC\*, Cpair\*, Cadv\*



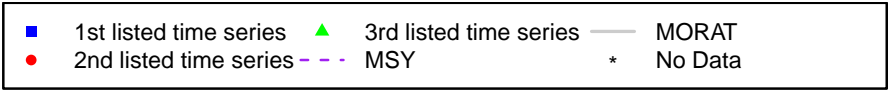
CPUE\*



EFFORT\*



CdivMSY\*



## Blueline tilefish Southern Atlantic coast [BLTILESATLC]

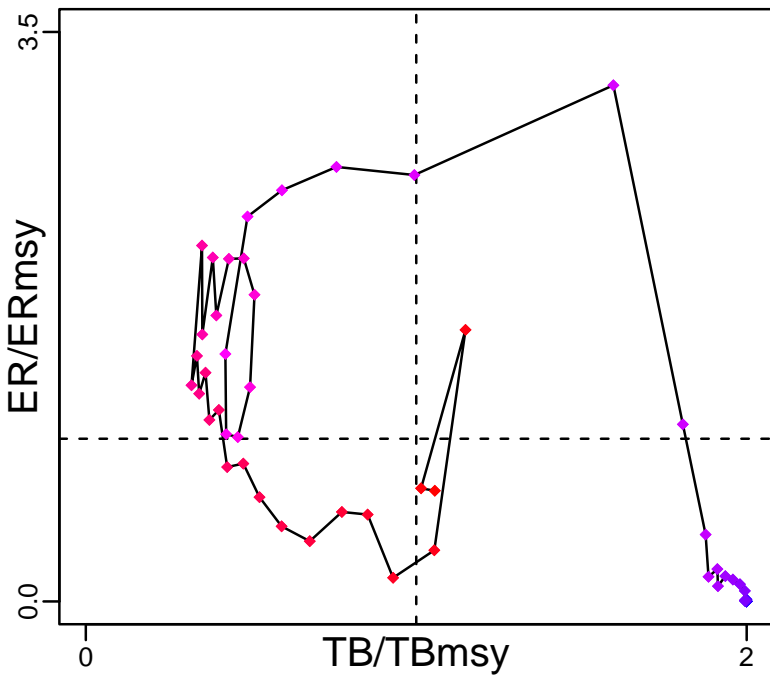
Metadata	
<b>Scientific Name</b>	Caulolatilus microps
<b>Current Assess ID</b>	SEFSC-BLTILESATLC-1958-2015-SISIMP2021
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2015, 2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2015	665
<b>SSBmsy</b>	SSBmsy-MT	2011	247
<b>Fmsy</b>	Fmsy-1/yr	2015	0.146
<b>ERmsy</b>	ERmsy-calc-ratio	2015	0.145
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2015	96
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2015	499
<b>SSBlim</b>	SSBlim-MT	2011	222
<b>Flim</b>	Flim-1/yr	2015	0.146
<b>ERlim</b>	-	-	-

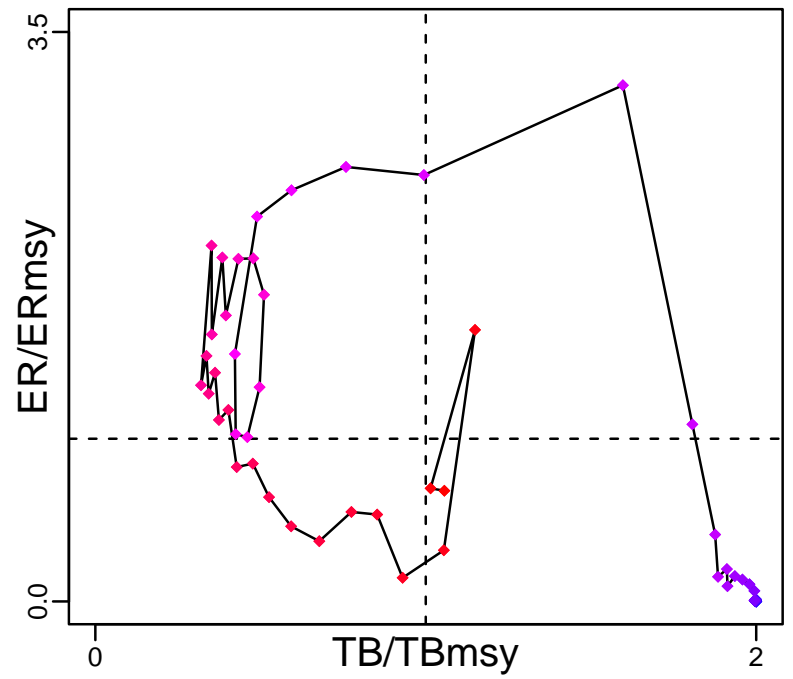
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	703	-	-
<b>SSB</b>	SSB-MT	2011	202	Females	3+
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2015	0.134	-	-
<b>ER</b>	ER-calc-ratio	2015	0.098	-	-
<b>TC</b>	TC-MT	2015	69		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2015	1.056		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2011	0.818		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	0.918		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2015	0.68		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Blueline tilefish Southern Atlantic coast [BLTILESATLC]

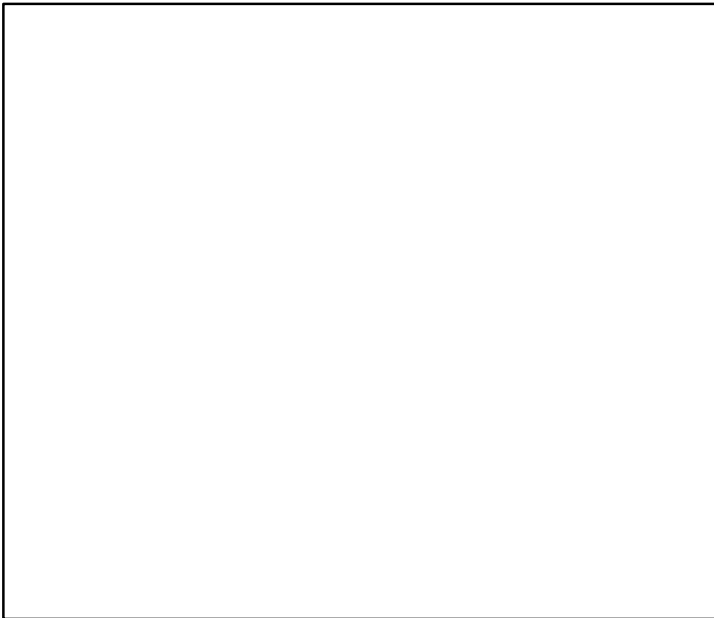
Kobe MSY<sub>pref</sub> (1958–2015–SISIMP2021)



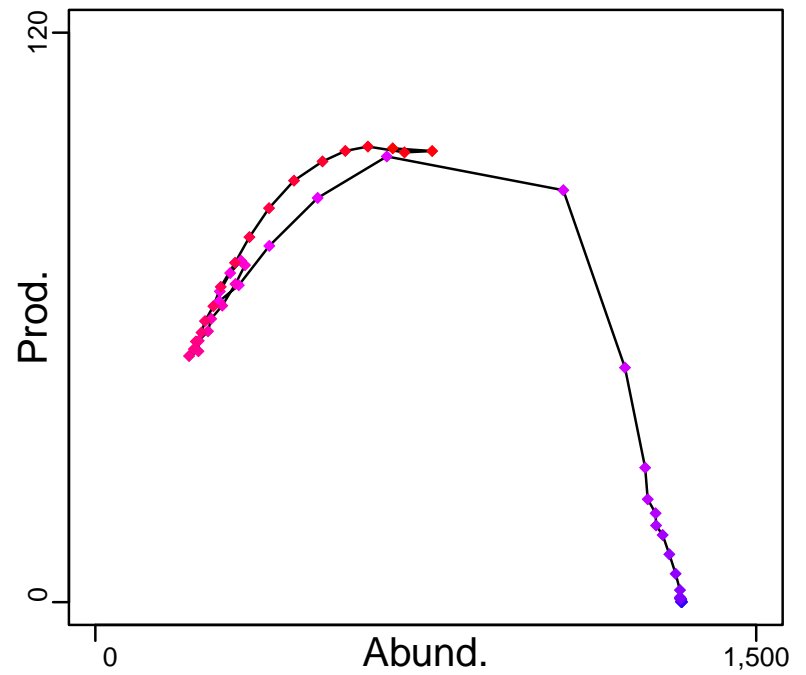
Kobe MGT<sub>pref</sub> (1958–2015–SISIMP2021)



Spawner Recruit\*



Production (1958–2015–SISIMP2021)

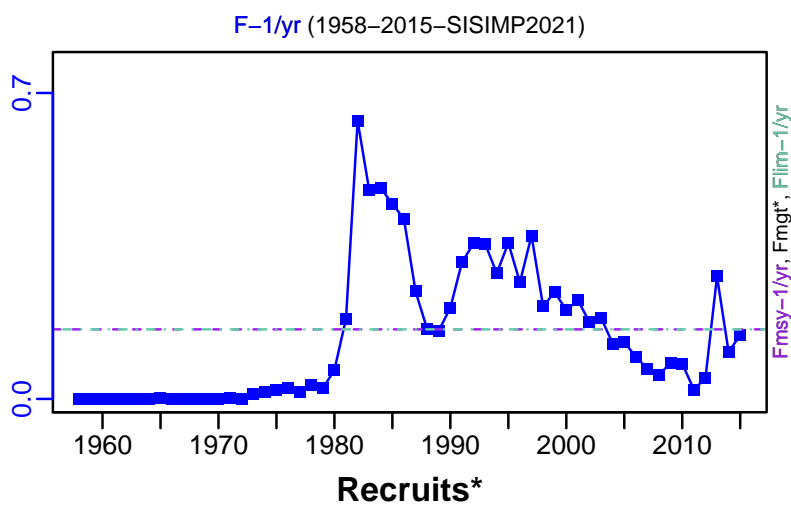
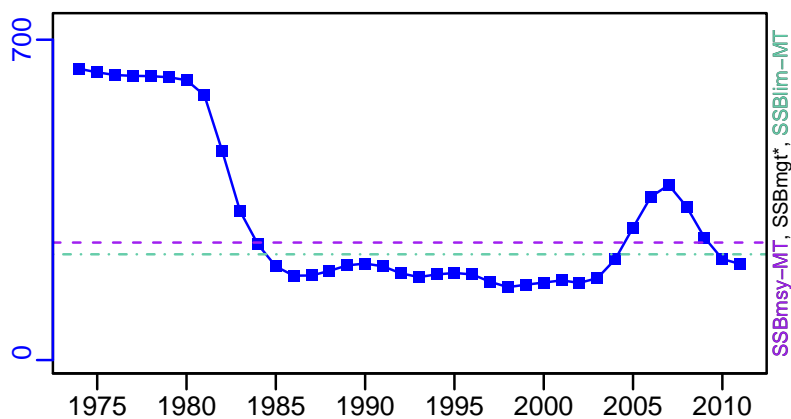
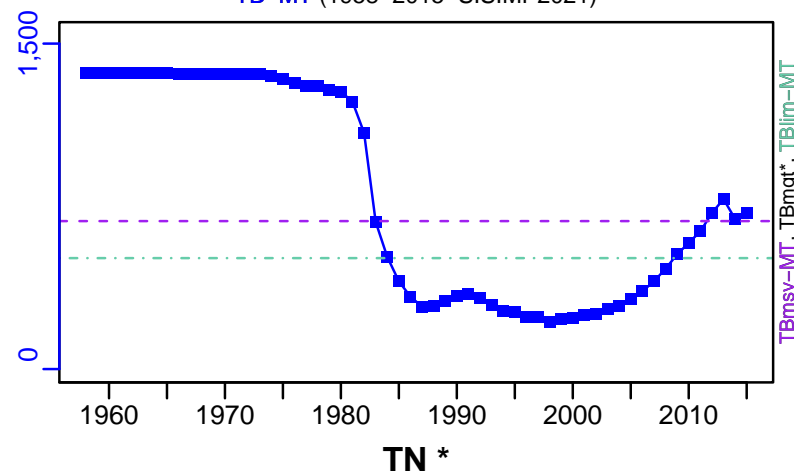


◆ Start Year ◆ End Year \* No Data

# Blueline tilefish Southern Atlantic coast [BLTILESATLC]

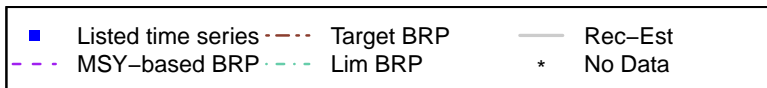
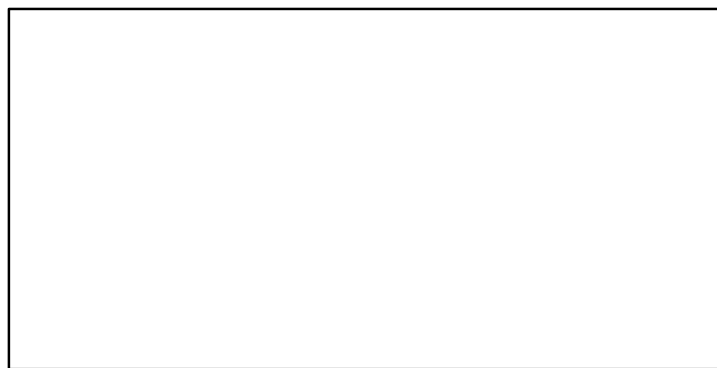
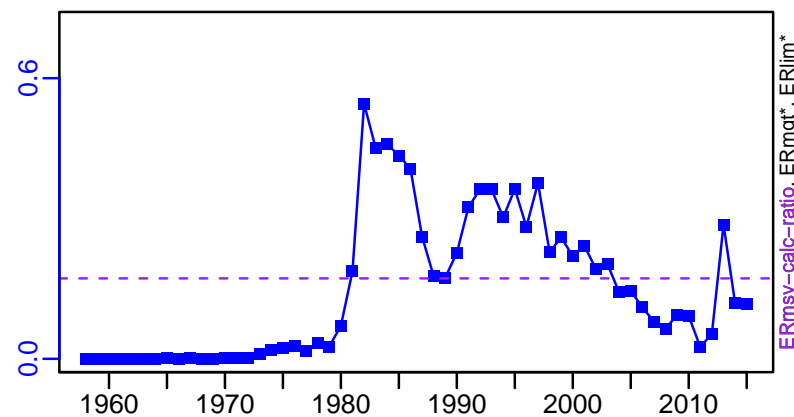
TB-MT (1958–2015–SISIMP2021)

SSB-MT (1974–2011–SISIMP2016)



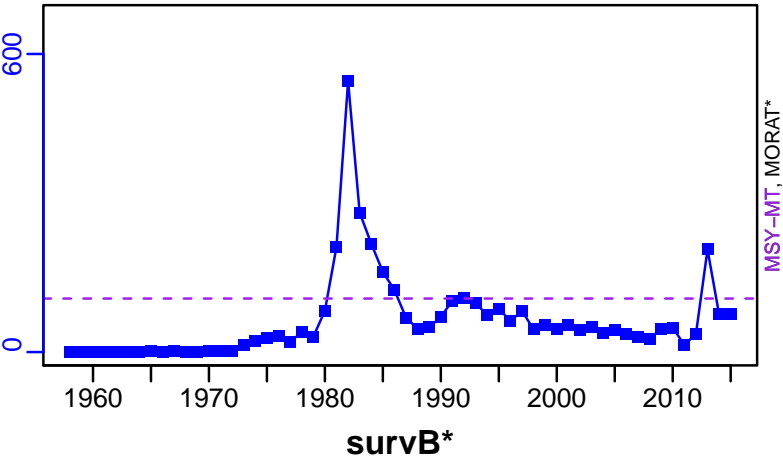
ER-calc-ratio (1958–2015–SISIMP2021)

Recruits\*



Blueline tilefish Southern Atlantic coast [BLTILESATLC]

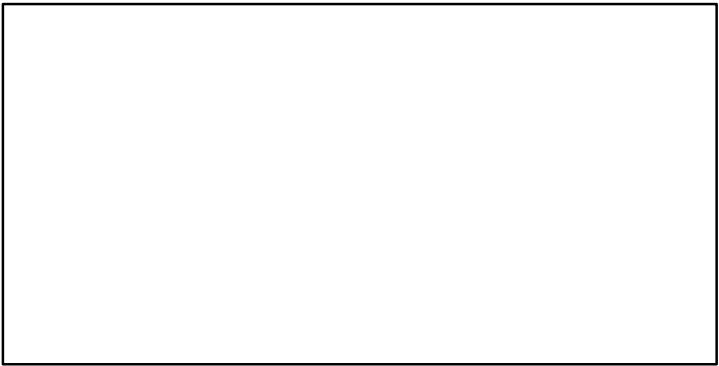
TC-MT, TL\*, RecC\* (1958-2015-SISIMP2021)



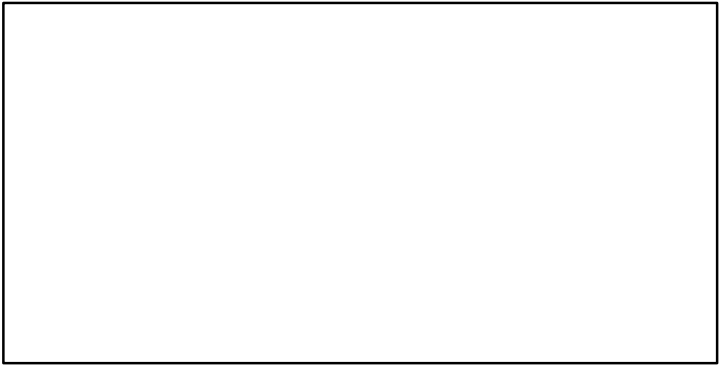
TAC\*, Cpair\*, Cadv\*



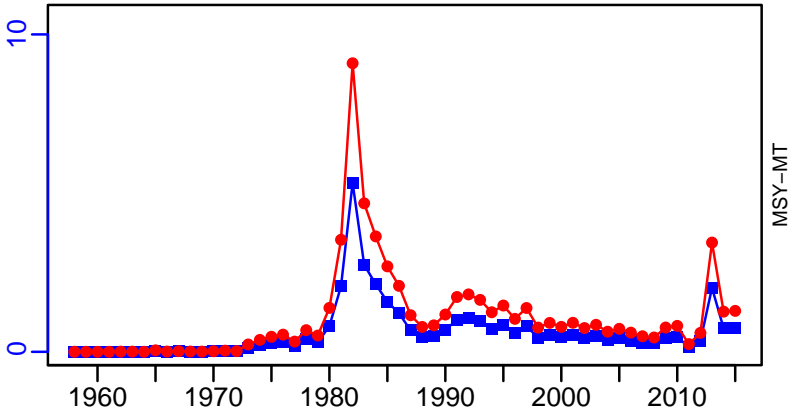
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1958-2015-SISIMP2021)





## Bluefish Atlantic Coast [BLUEFISHATLC]

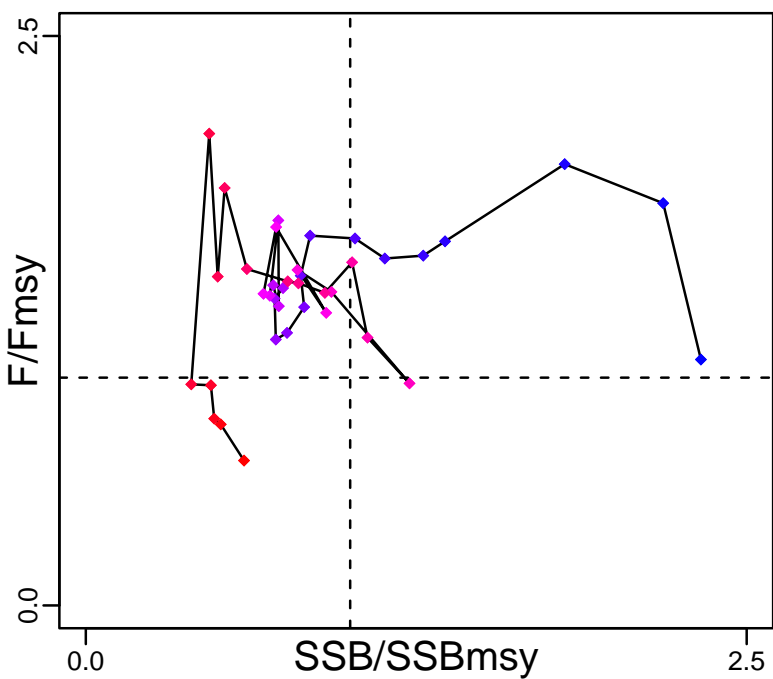
Metadata	
<b>Scientific Name</b>	Pomatomus saltatrix
<b>Current Assess ID</b>	NEFSC-BLUEFISHATLC-1985-2022-SISIMP2024
<b>Area</b>	Atlantic Coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Northeast Fisheries Science Center
<b>Asmts in RAM</b>	2007, 2014, 2018, 2019, 2022

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2007	147,052
<b>SSBmsy</b>	SSBmsy-MT	2022	88,131
<b>Fmsy</b>	Fmsy-1/yr	2022	0.239
<b>ERmsy</b>	ERmsy-ratio	2007	0.106
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2022	18,979
<b>M</b>	M-1/yr	2007	0.2
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2022	44,066
<b>Flim</b>	Flim-1/yr	2019	0.181
<b>ERlim</b>	-	-	-

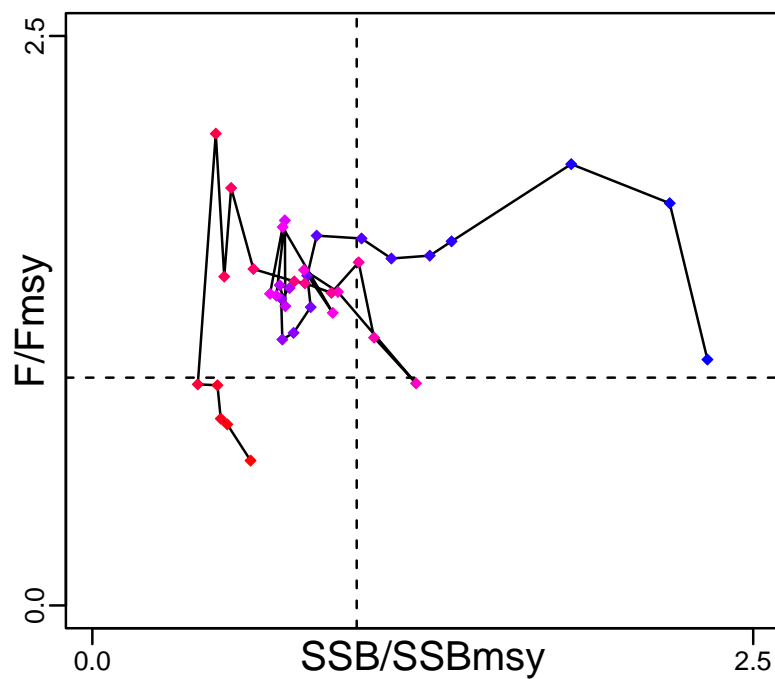
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	94,300	-	-
<b>SSB</b>	SSB-MT	2022	52,747	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2022	137,139	-	0
<b>F</b>	F-1/yr	2022	0.152	-	-
<b>ER</b>	ER-calc-ratio	2014	0.104	-	-
<b>TC</b>	TC-MT	2022	7436		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2007	1.047		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2022	0.599		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2022	0.636		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2007	0.954		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Bluefish Atlantic Coast [BLUEFISHATLC]

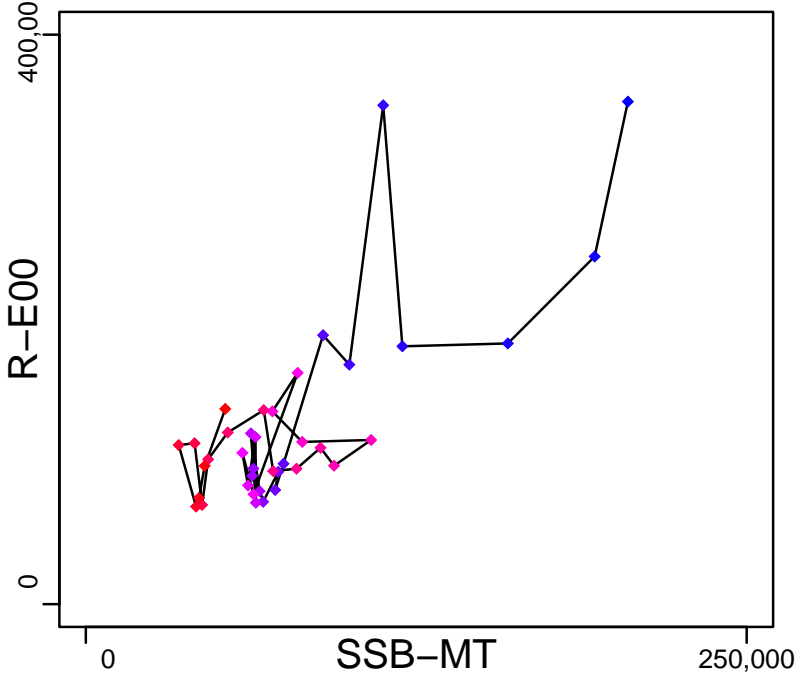
Kobe MSYpref (1985–2022–SISIMP2024)



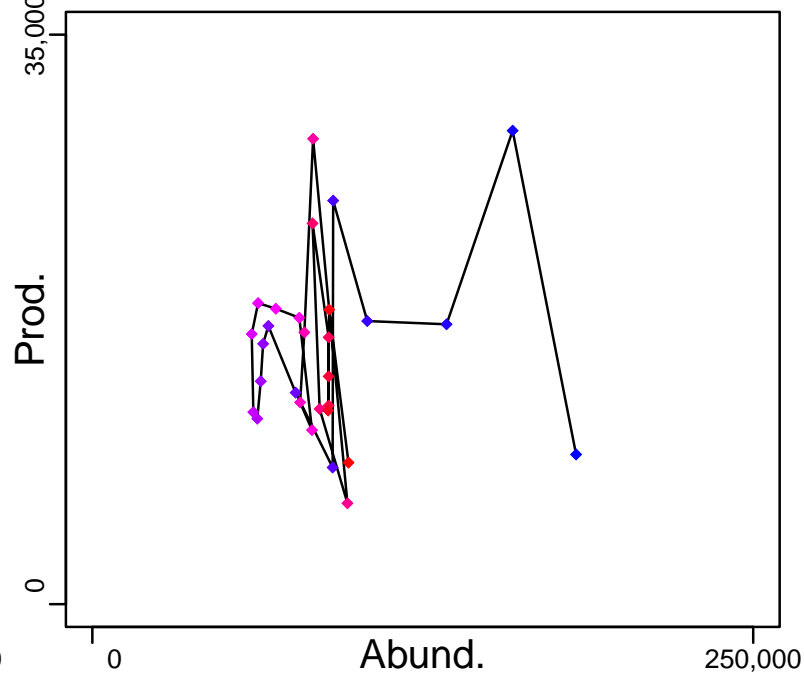
Kobe MGTpref (1985–2022–SISIMP2024)



Spawner Recruit (1985–2022–SISIMP2024)



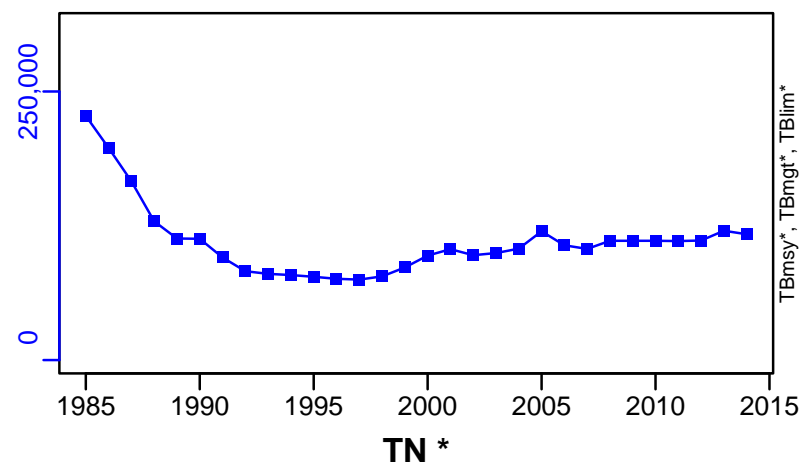
Production (1985–2014–SISIMP2016)



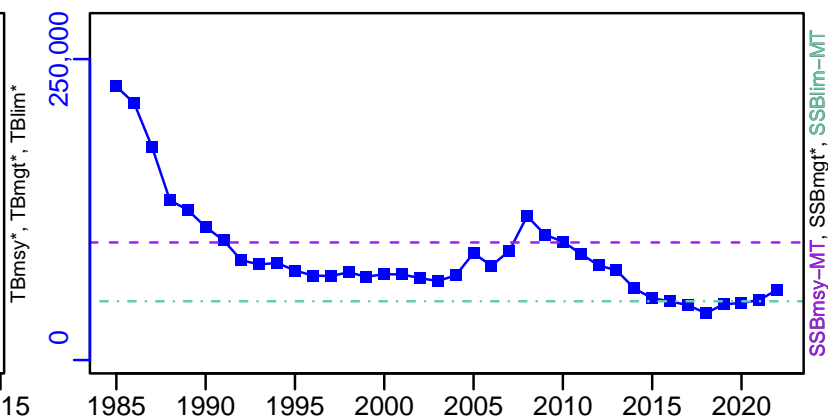
◆ Start Year ◆ End Year \* No Data

# Bluefish Atlantic Coast [BLUEFISHATLC]

TB-MT (1985–2014–SISIMP2016)



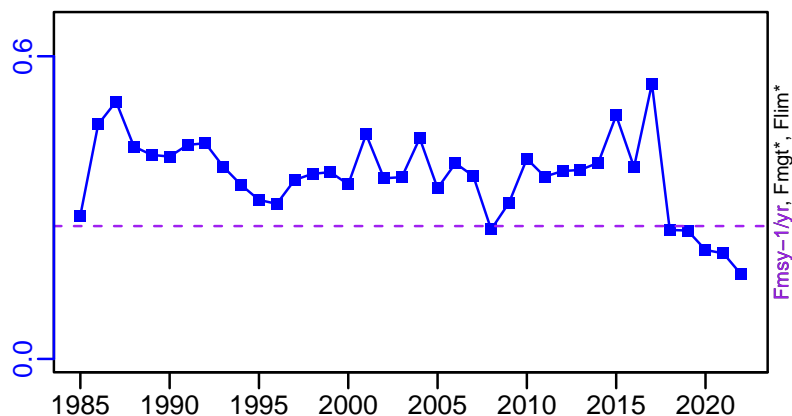
SSB-MT (1985–2022–SISIMP2024)



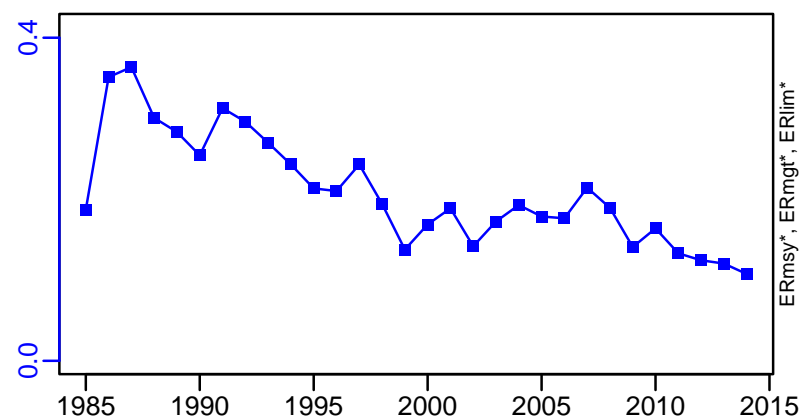
TN \*



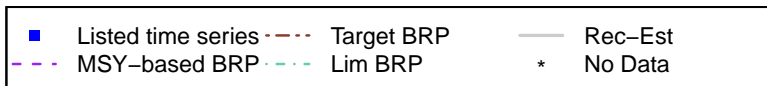
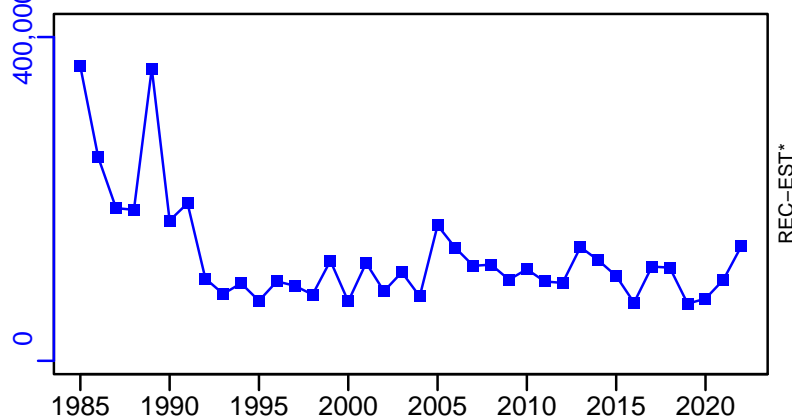
F-1/yr (1985–2022–SISIMP2024)



ER-calc-ratio (1985–2014–SISIMP2016)



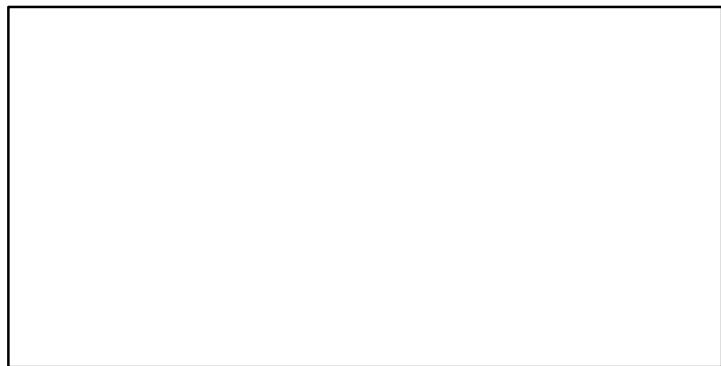
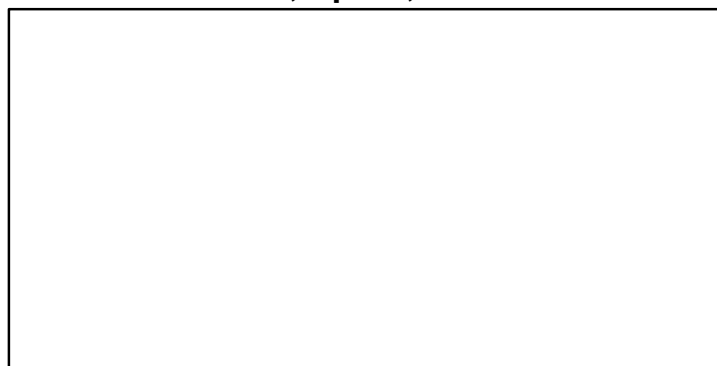
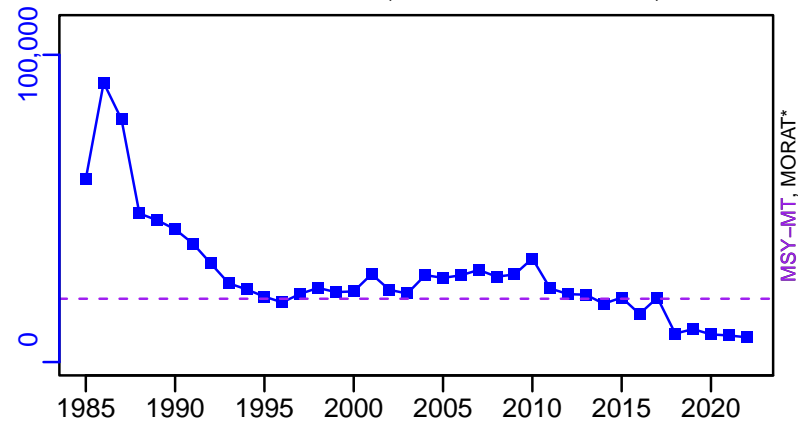
R-E00 (1985–2022–SISIMP2024)



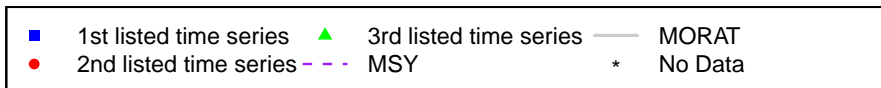
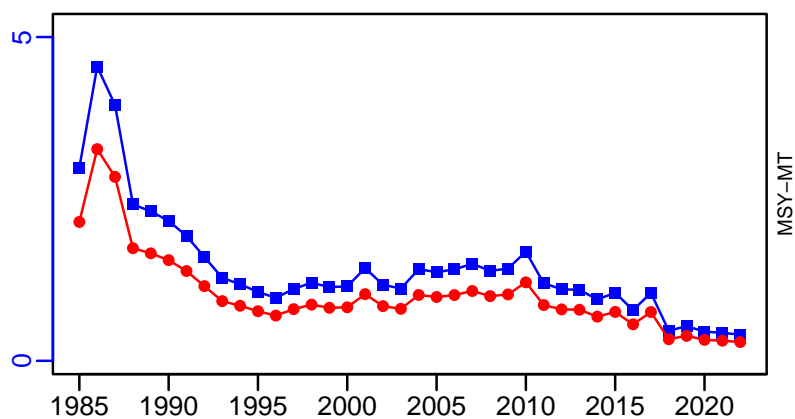
# Bluefish Atlantic Coast [BLUEFISHATLC]

TC-MT, TL\*, RecC\* (1985-2022-SISIMP2024)

TAC\*, Cpair\*, Cadv\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1985-2022-SISIMP2024)



## Yellow sea bream Sea of Japan [BRMSOJ]

Metadata	
<b>Scientific Name</b>	Dentex tumifrons
<b>Current Assess ID</b>	FAFRFJ-BRMSOJ-1980-2013-JPNIMP2016
<b>Area</b>	Sea of Japan
<b>Management Authority</b>	Fisheries Agency of Japan
<b>Assessor</b>	Fisheries Agency and Fisheries Research Agency of Japan
<b>Asmts in RAM</b>	2010, 2013

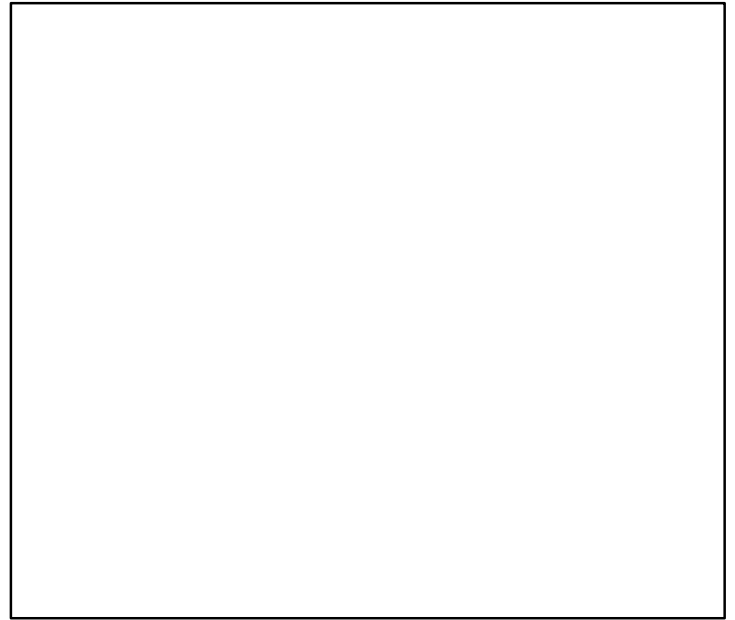
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2013	0.22
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	5560	-	0
<b>SSB</b>	SSB-MT	2010	2910	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2010	$4.4 \times 10^7$	-	-
<b>F</b>	F-1/yr	2010	0.46	-	0 to 4
<b>ER</b>	ER-ratio	2010	0.219	-	-
<b>TC</b>	TC-MT	2013	4140		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

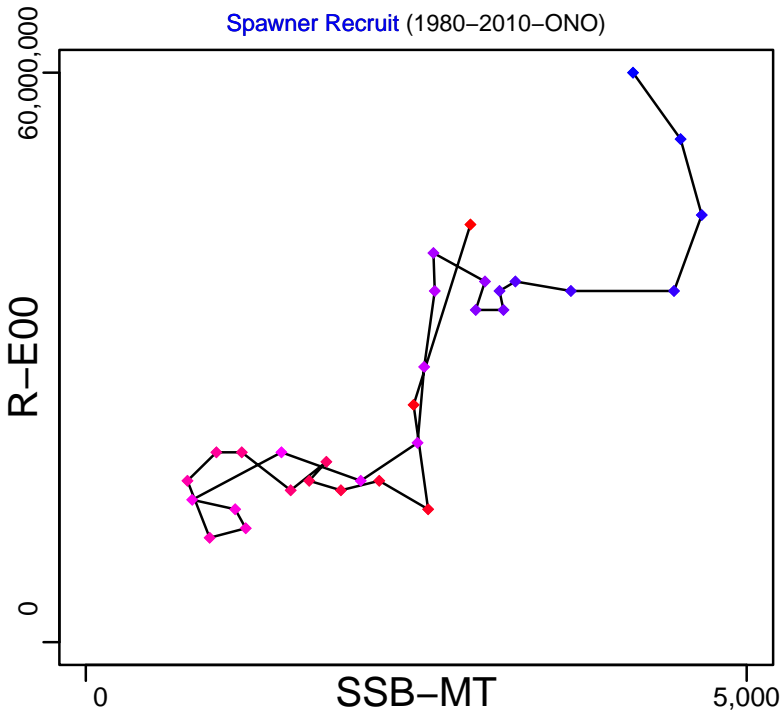
Kobe MSY\*



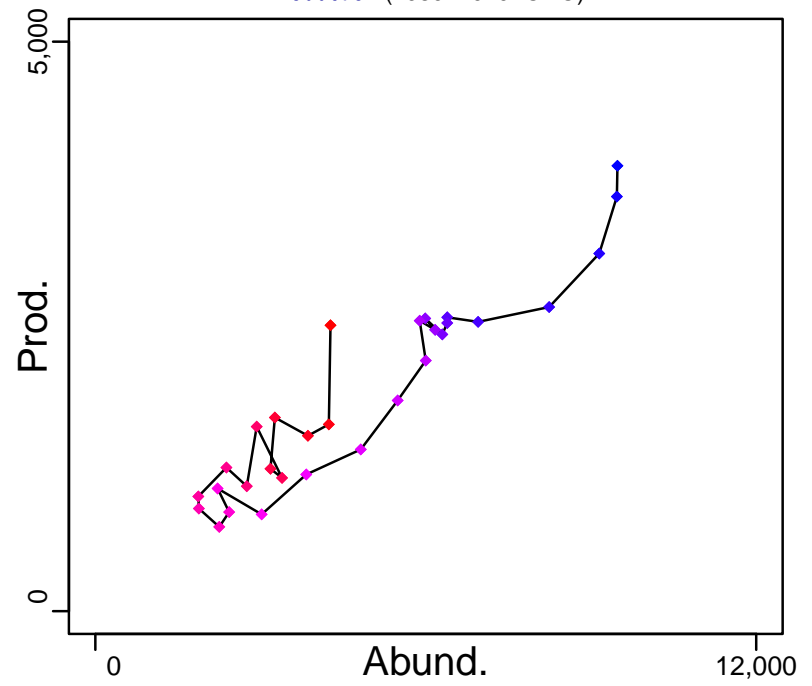
Kobe MGT\*



Spawner Recruit (1980–2010–ONO)



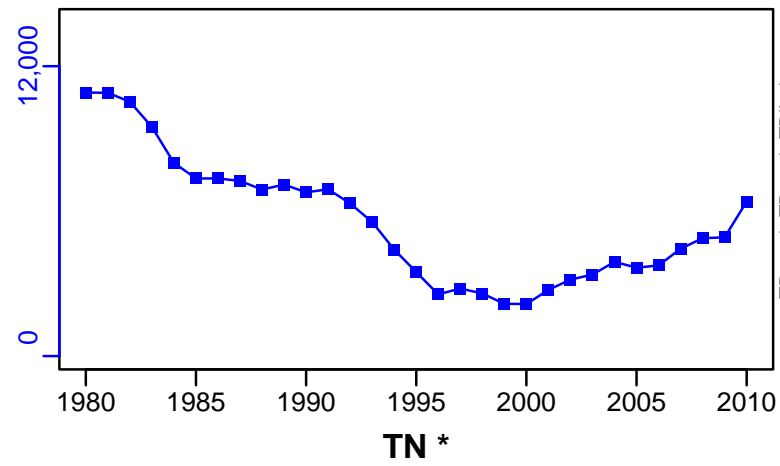
Production (1980–2010–ONO)



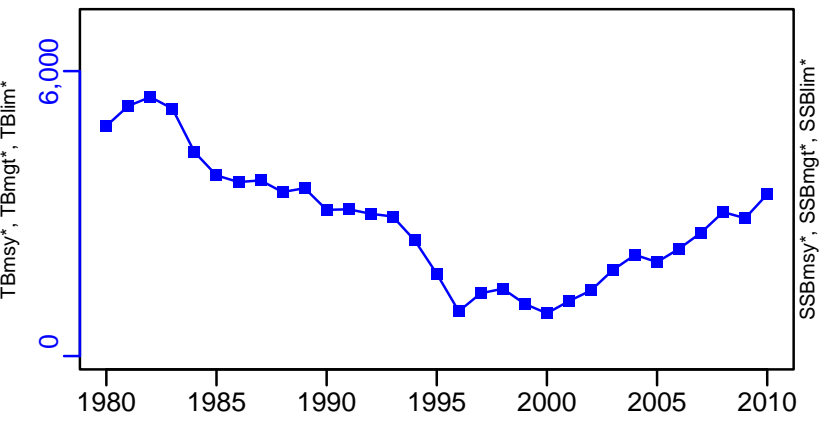
◆ Start Year ◆ End Year \* No Data

# Yellow sea bream Sea of Japan [BRMSOJ]

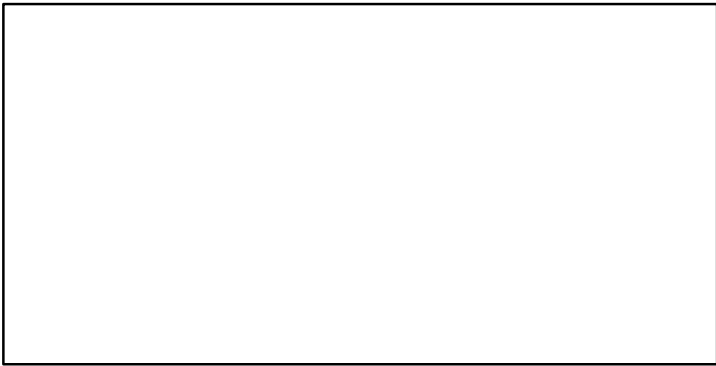
TB-MT (1980-2010-ONO)



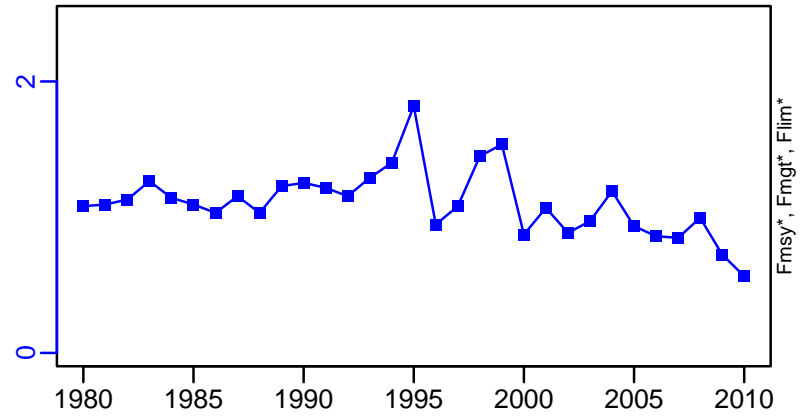
SSB-MT (1980-2010-ONO)



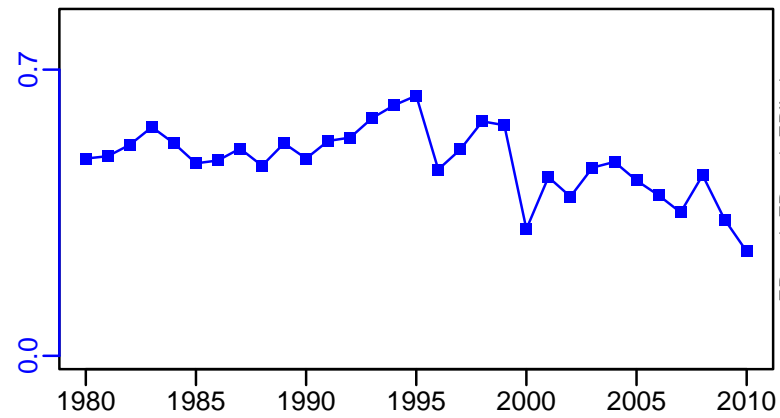
TN \*



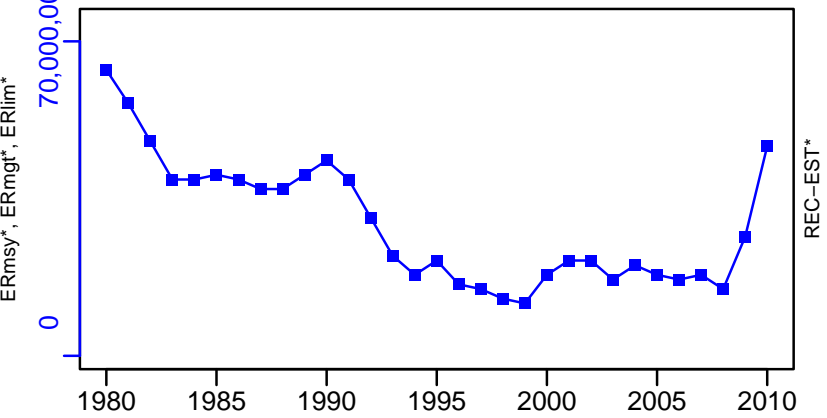
F-1/yr (1980-2010-ONO)



ER-ratio (1980-2010-ONO)



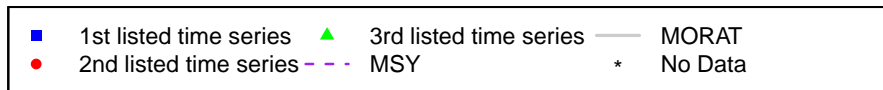
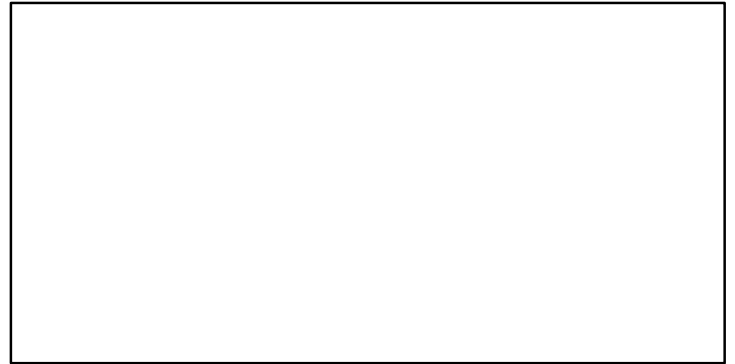
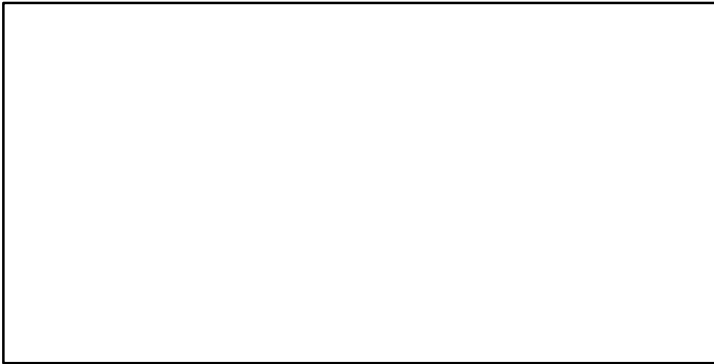
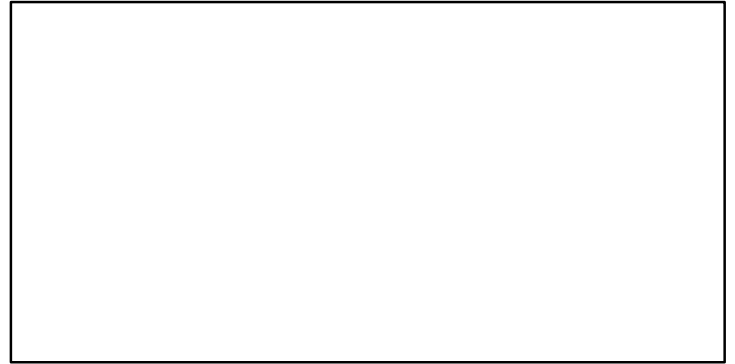
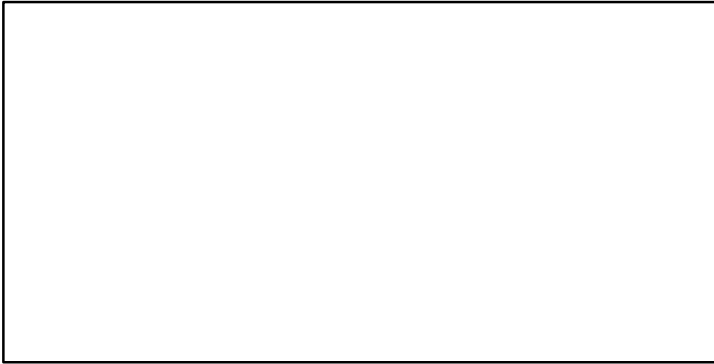
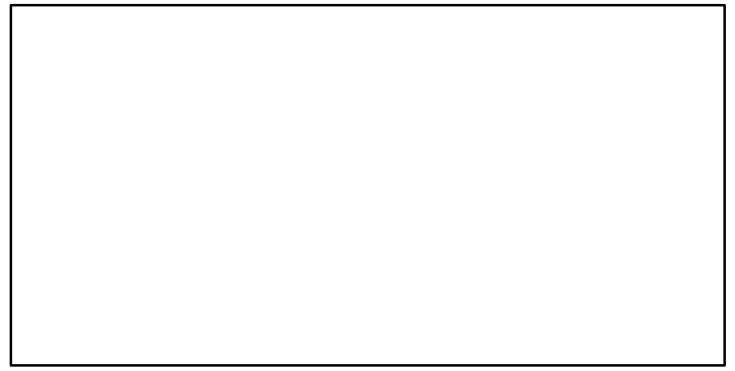
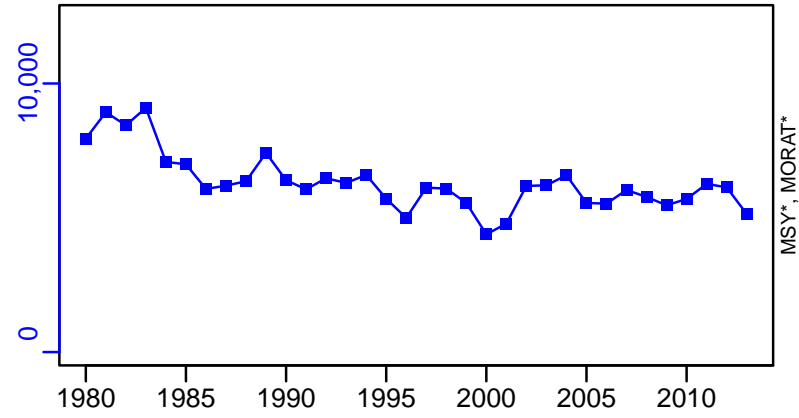
R-E00 (1980-2010-ONO)



# Yellow sea bream Sea of Japan [BRMSOJ]

TC-MT, TL\*, RecC\* (1980-2013-JPNIMP2016)

TAC\*, Cpair\*, Cadv\*





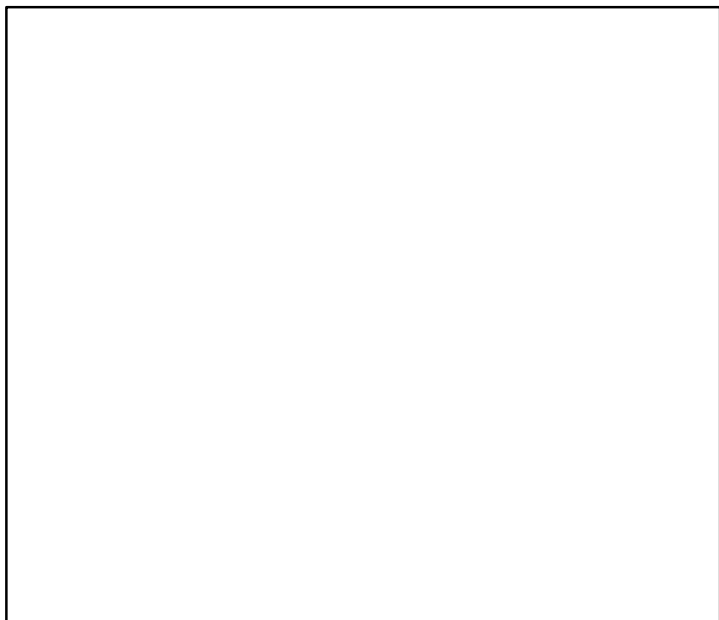
## Seabream Central West Africa Cote Divoire-Benin [BRMSPPCWACIV-BEN]

Metadata	
<b>Scientific Name</b>	Dentex spp
<b>Current Assess ID</b>	FAO-DR-BRMSPPCWACIV-BEN-1990-2007-CHING
<b>Area</b>	Central West Africa Cote Divoire-Benin
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

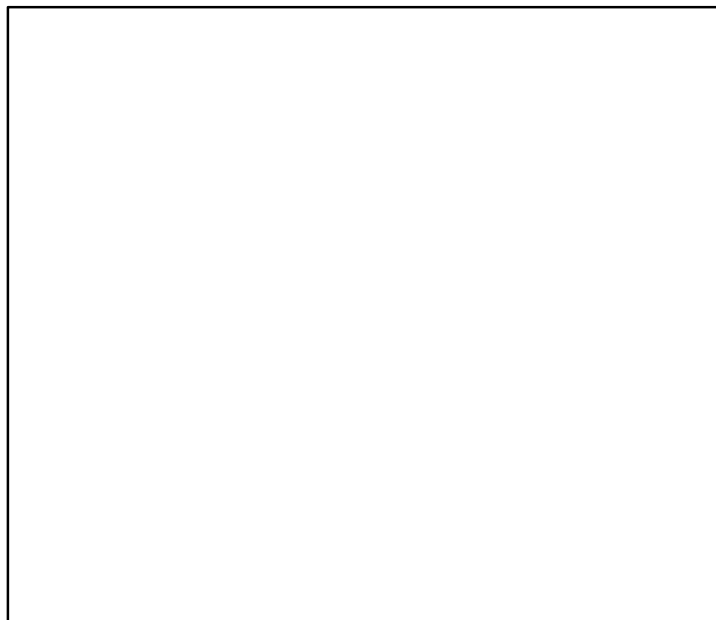
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	24	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	9450		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***

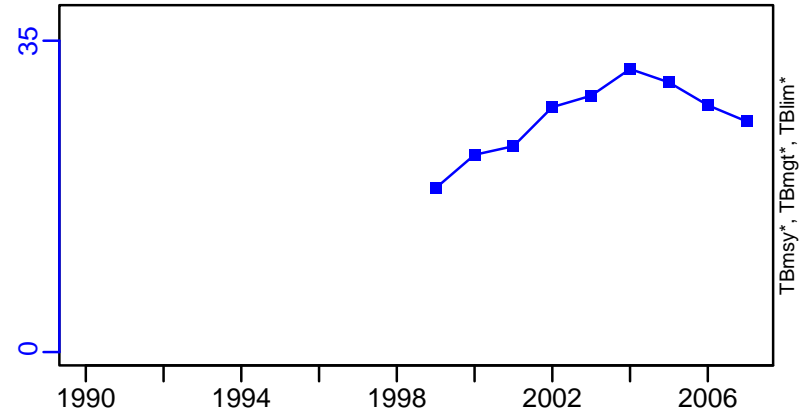


◆ Start Year ◆ End Year \* No Data

# Seabream Central West Africa Cote Divoire–Benin [BRMSPPCWACIV–BEN]

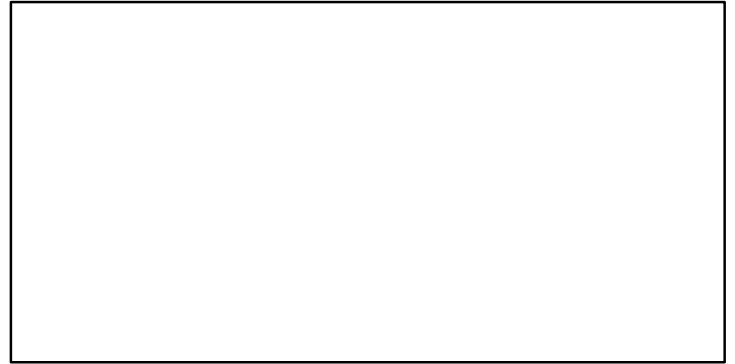
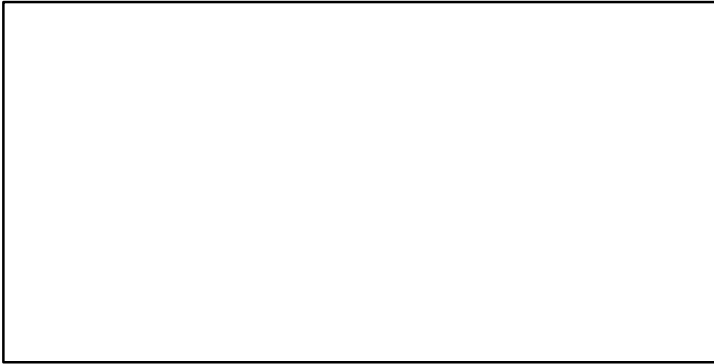
TB–index (1990–2007–CHING)

SSB\*



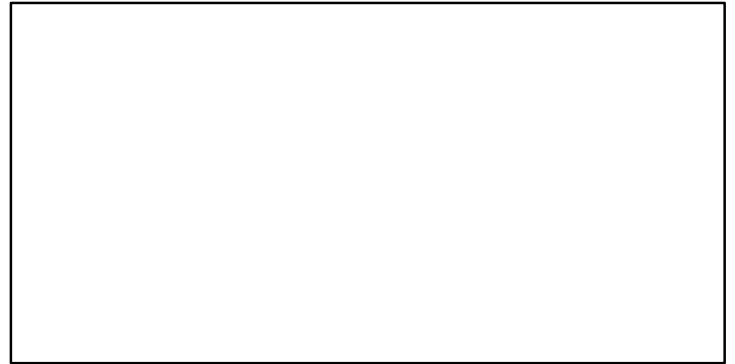
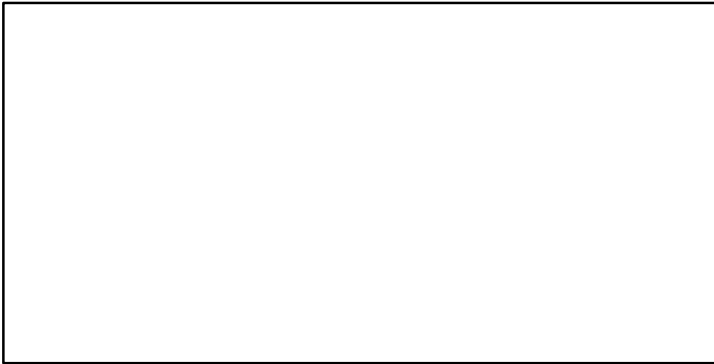
TN \*

F\*



ER\*

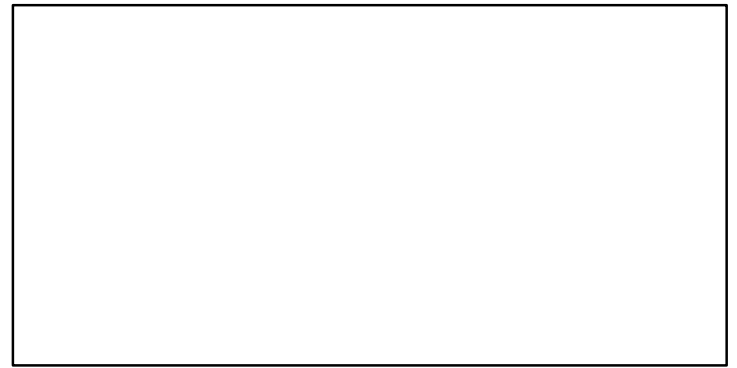
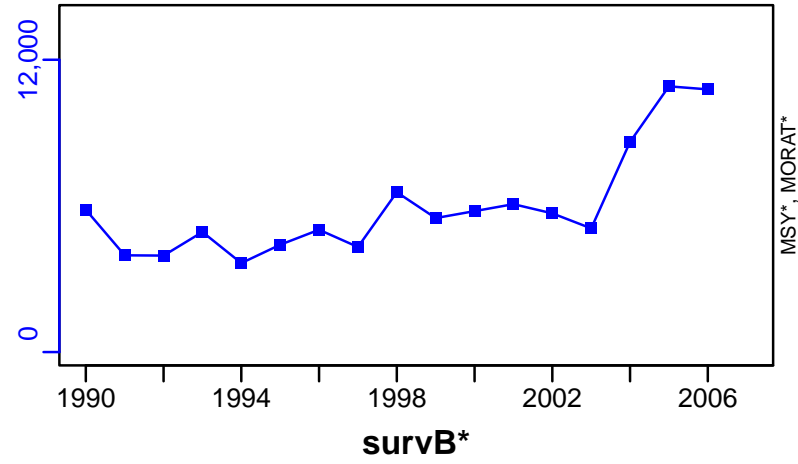
Recruits\*



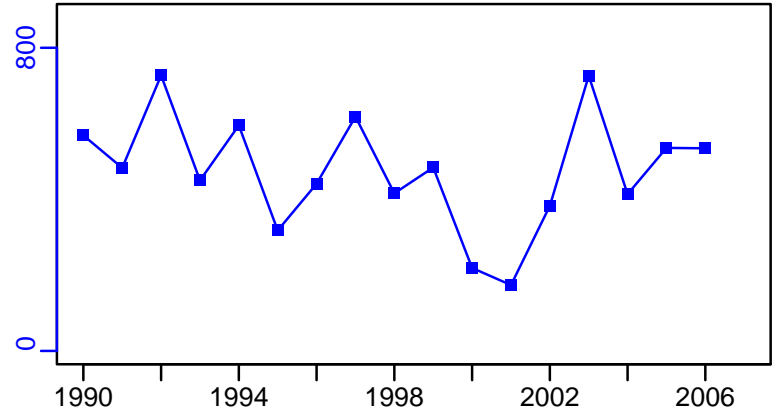
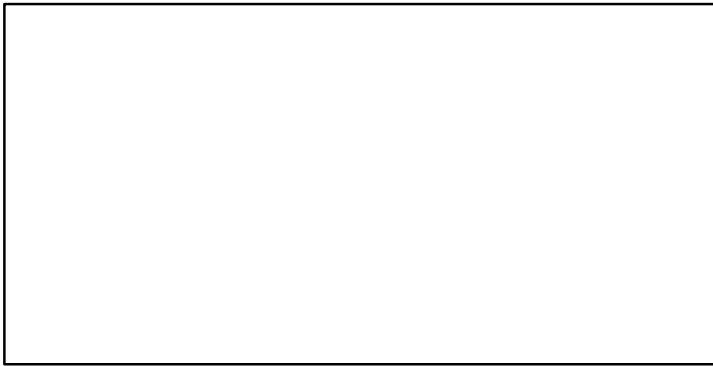
# Seabream Central West Africa Cote Divoire–Benin [BRMSPPCWACIV–BEN]

TC–MT, TL\*, RecC\* (1990–2007–CHING)

TAC\*, Cpair\*, Cadv\*

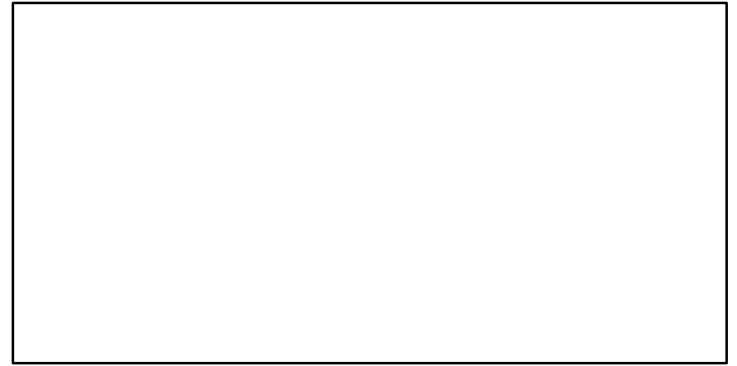
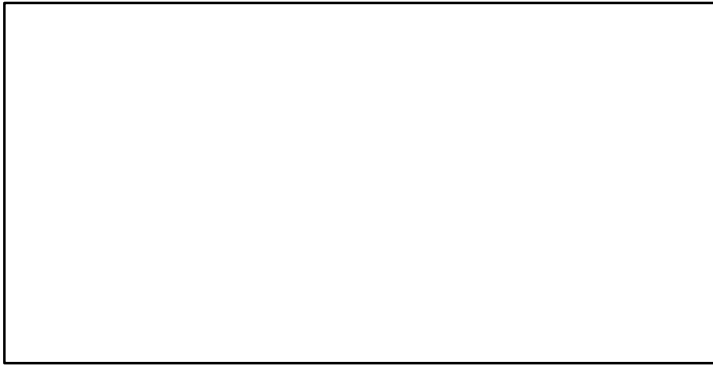


CPUE–kg/day (1990–2007–CHING)



EFFORT\*

CdivMSY\*



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

## Seabream Central West Africa Gabon-Angola [BRMSPPCWAGAB-AGO]

Metadata	
<b>Scientific Name</b>	Dentex spp
<b>Current Assess ID</b>	FAO-DR-BRMSPPCWAGAB-AGO-1995-2007-CHING
<b>Area</b>	Central West Africa Gabon-Angola
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	154	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	13,300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

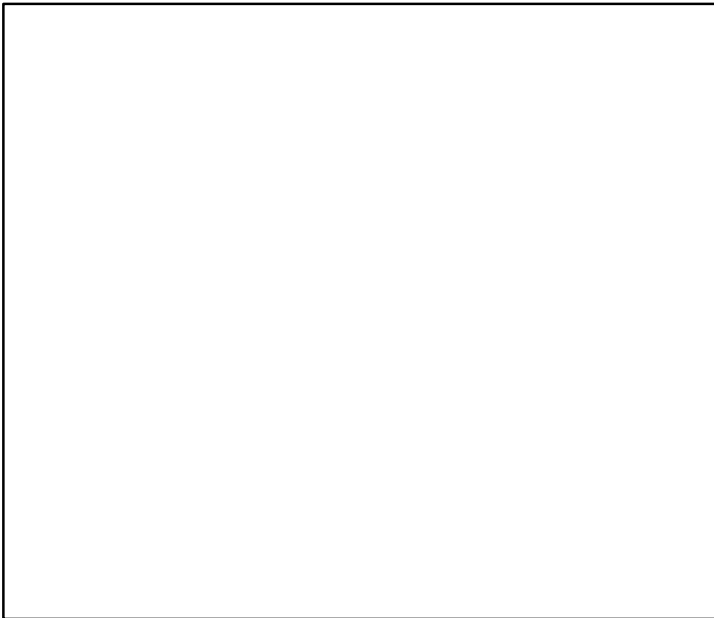
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



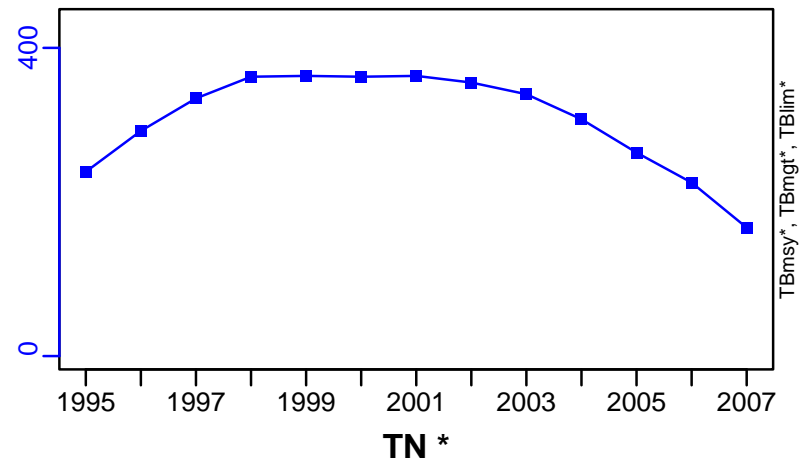
**Production\***



◆ Start Year ◆ End Year \* No Data

# Seabream Central West Africa Gabon–Angola [BRMSPPCWAGAB–AGO]

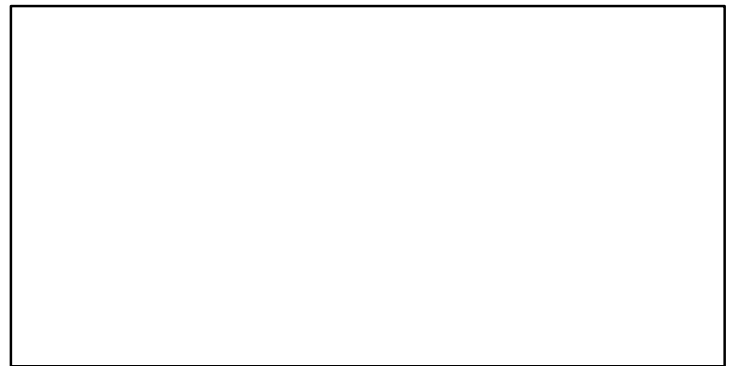
TB-index (1995–2007–CHING)



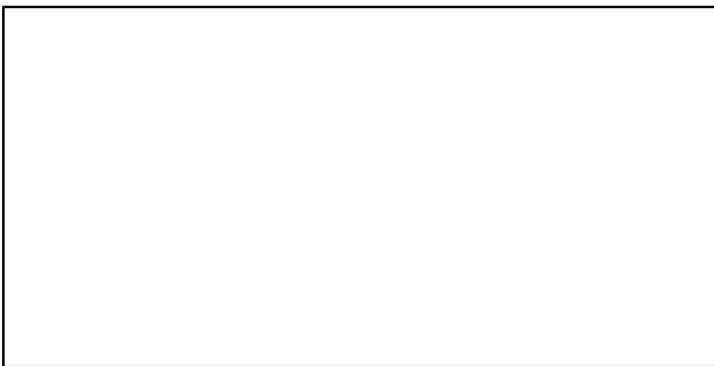
**SSB\***



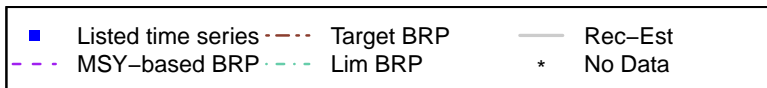
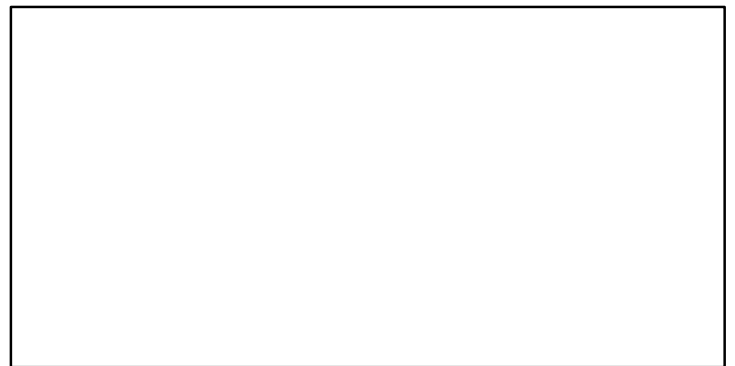
**F\***



**ER\***



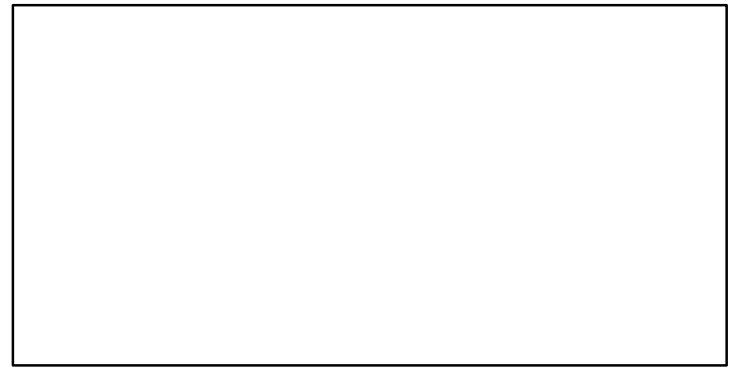
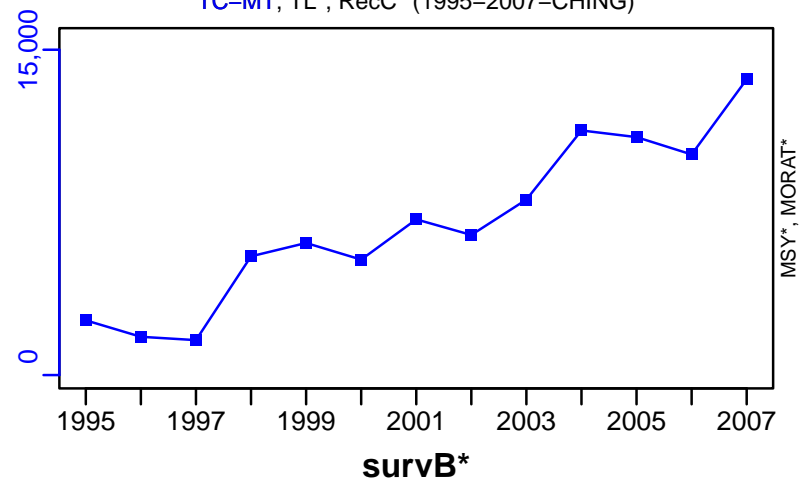
**Recruits\***



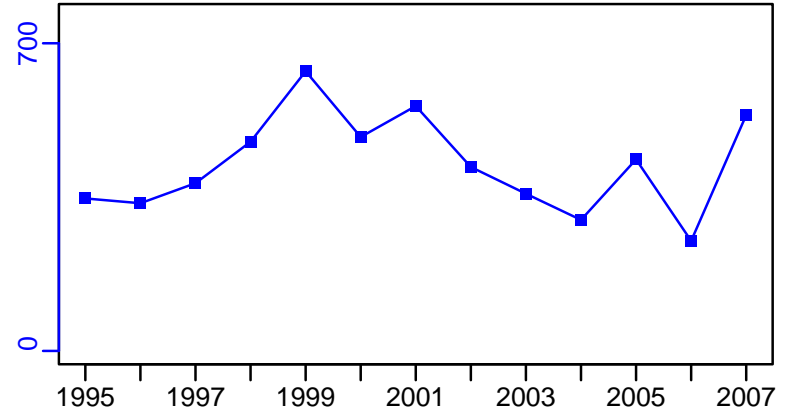
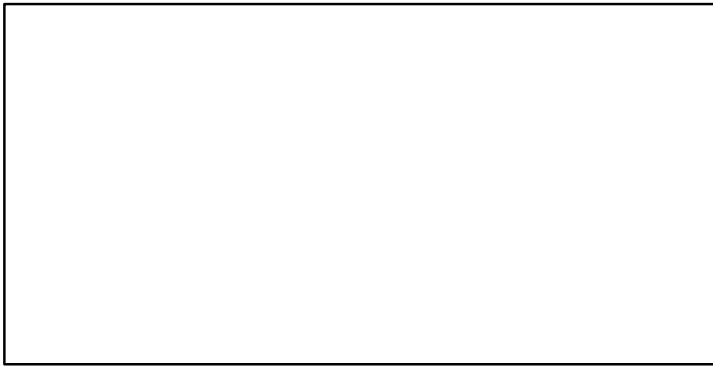
# Seabream Central West Africa Gabon–Angola [BRMSPPCWAGAB–AGO]

TC–MT, TL\*, RecC\* (1995–2007–CHING)

TAC\*, Cpair\*, Cadv\*

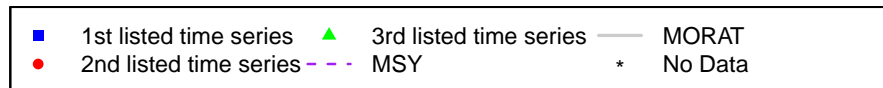
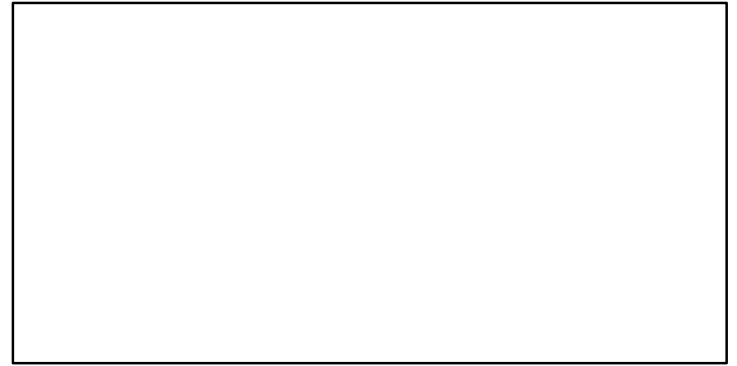
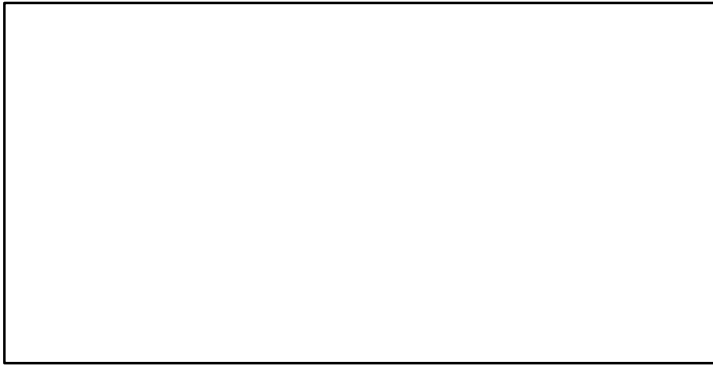


CPUE–kg/day (1995–2007–CHING)



EFFORT\*

CdivMSY\*





## Seabream Central West Africa Guinea-Liberia [BRMSPPCWAGIN-LBR]

Metadata	
<b>Scientific Name</b>	Dentex spp
<b>Current Assess ID</b>	FAO-DR-BRMSPPCWAGIN-LBR-1994-2007-CHING
<b>Area</b>	Central West Africa Guinea-Liberia
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

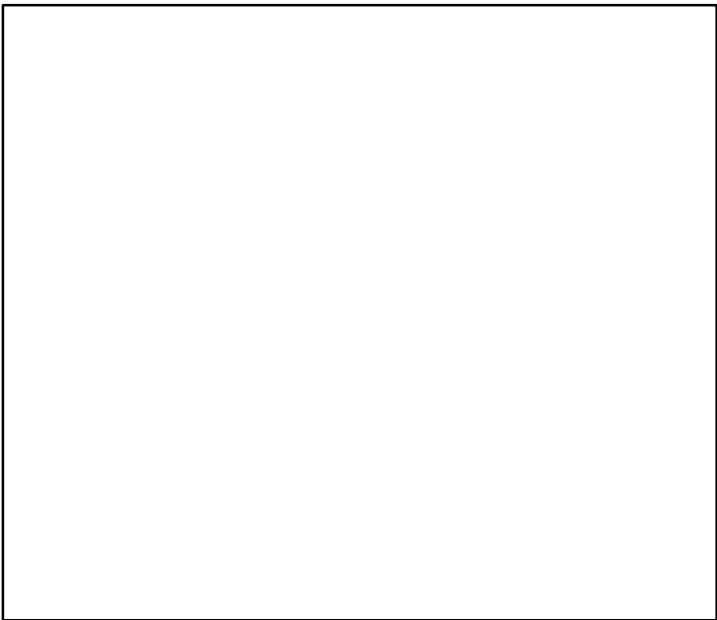
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	4910		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

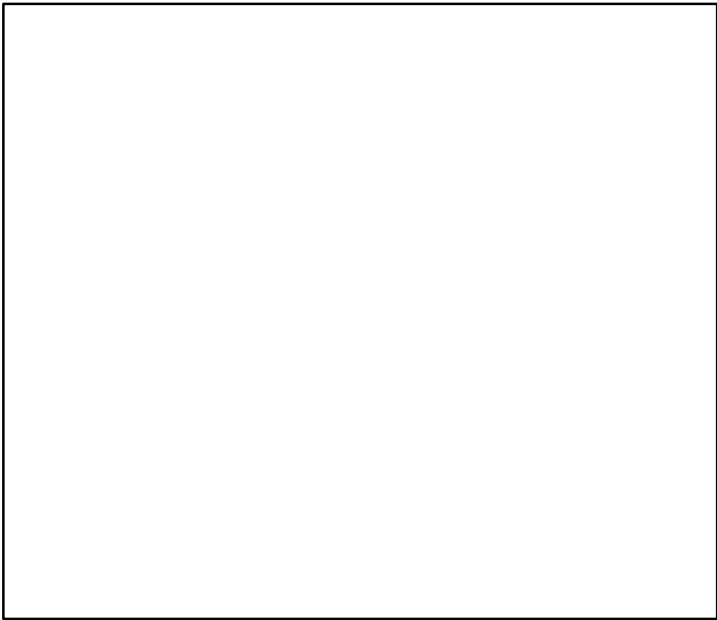
**Kobe MSY\***



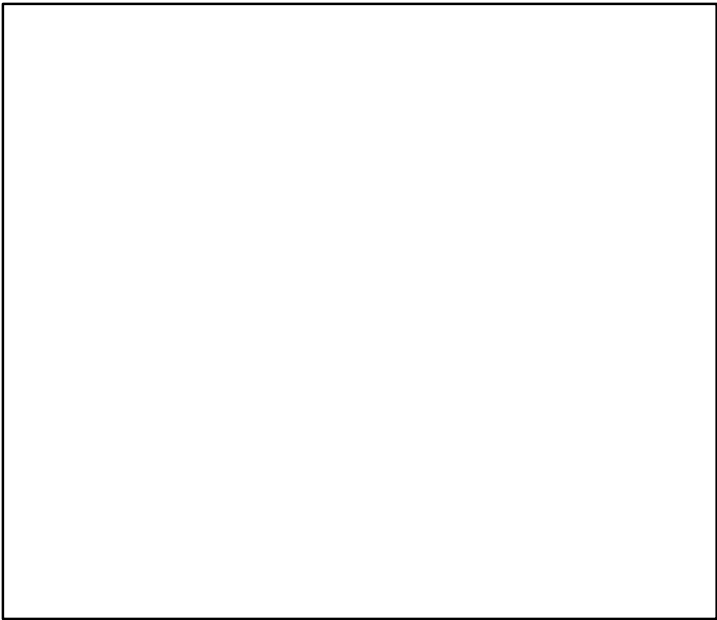
**Kobe MGT\***



**Spawner Recruit\***



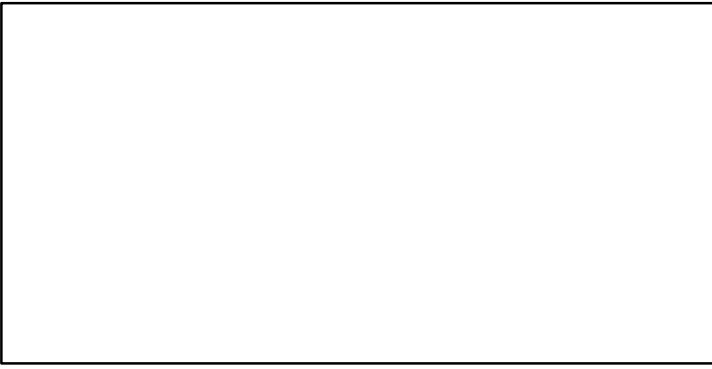
**Production\***



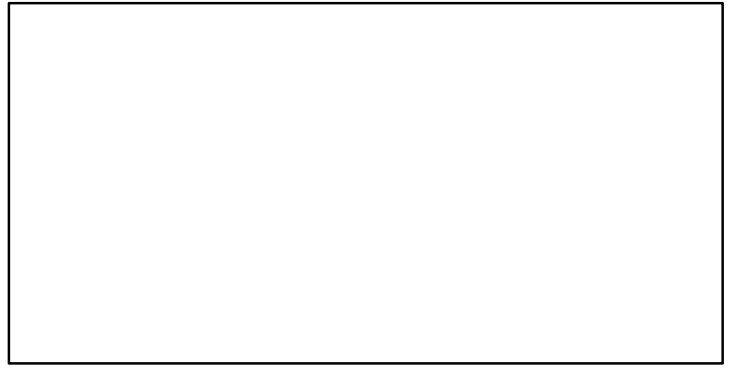
◆ Start Year   ◆ End Year   \* No Data

Seabream Central West Africa Guinea–Liberia [BRMSPPCWAGIN–LBR]

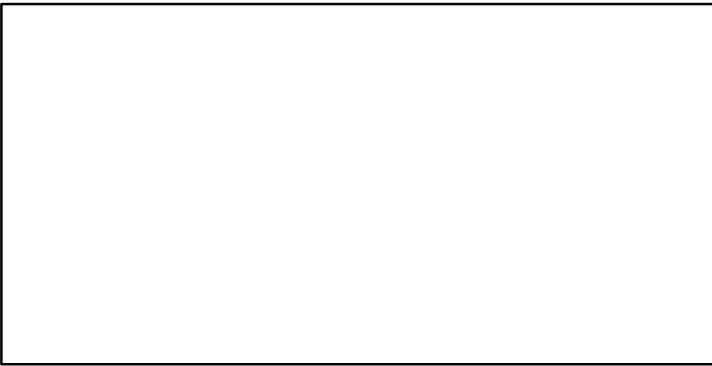
**TB\***



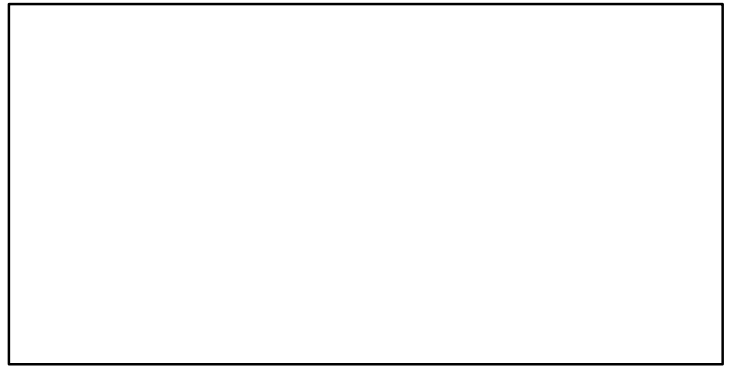
**SSB\***



**TN \***



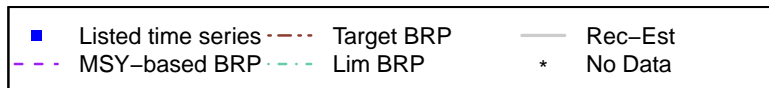
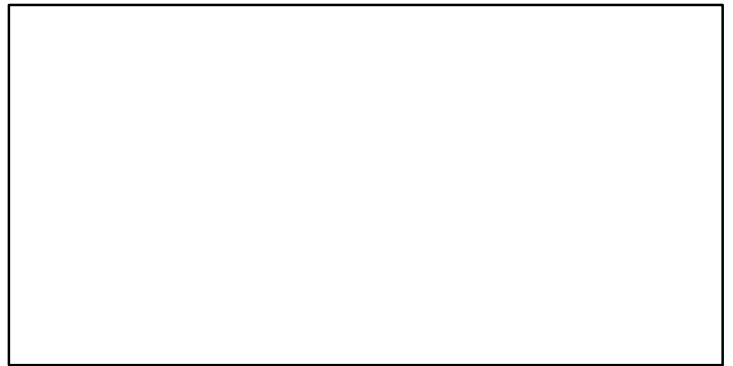
**F\***



**ER\***



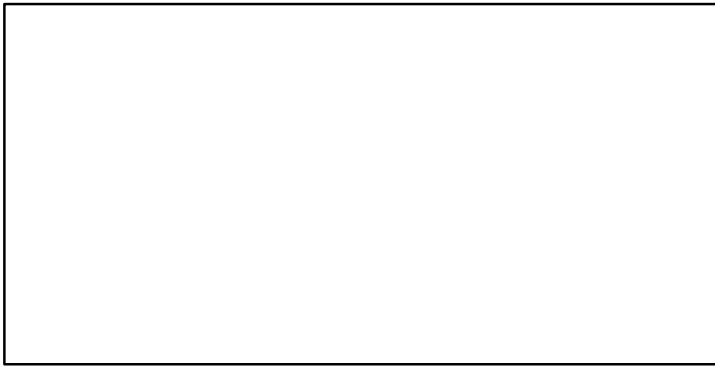
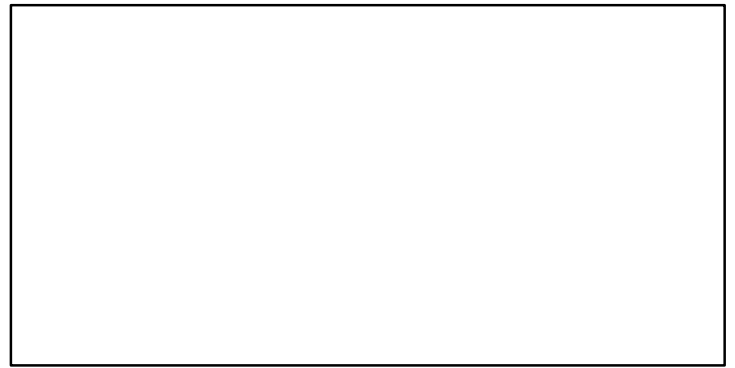
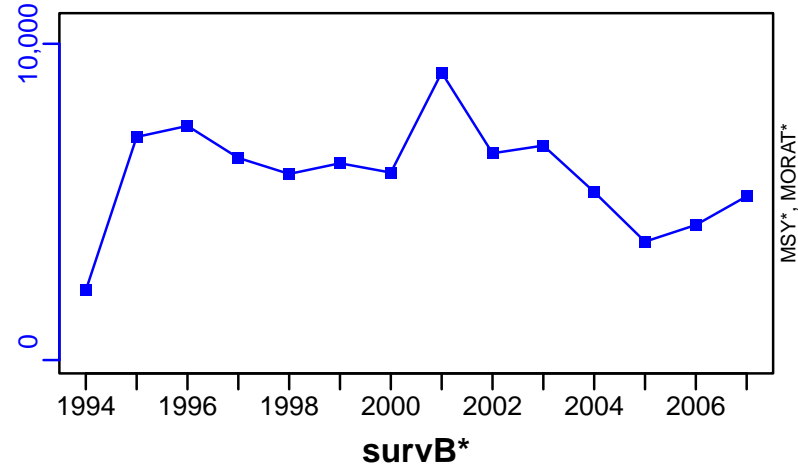
**Recruits\***



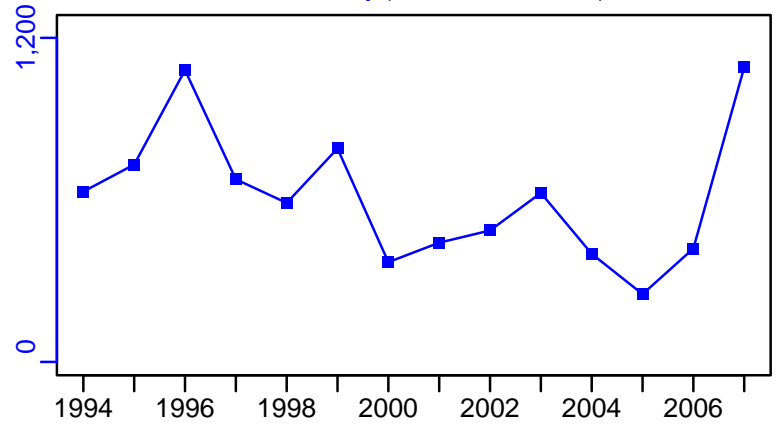
# Seabream Central West Africa Guinea-Liberia [BRMSPPCWAGIN-LBR]

TC-MT, TL\*, RecC\* (1994-2007-CHING)

TAC\*, Cpair\*, Cadv\*

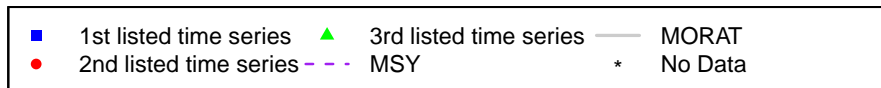


CPUE-MT/day (1994-2007-CHING)



EFFORT\*

CdivMSY\*



## Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

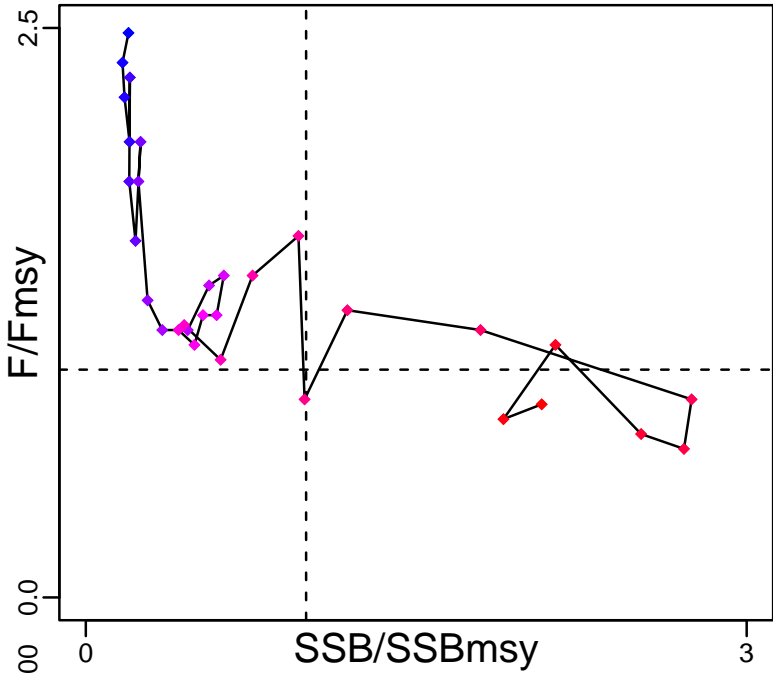
Metadata	
<b>Scientific Name</b>	Centropristis striata
<b>Current Assess ID</b>	NEFSC-BSBASSMATLC-1989-2019-SISIMP2021-2
<b>Area</b>	Mid-Atlantic Coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Northeast Fisheries Science Center
<b>Asmts in RAM</b>	2015, 2007, 2011, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2015	17,256
<b>SSBmsy</b>	SSBmsy-MT	2019	14,400
<b>Fmsy</b>	Fmsy-1/yr	2019	0.46
<b>ERmsy</b>	ERmsy-calc-ratio	2015	0.179
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2019	5330
<b>M</b>	M-1/yr	2015	0.4
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2019	7220
<b>Flim</b>	Flim-1/yr	2019	0.46
<b>ERlim</b>	-	-	-

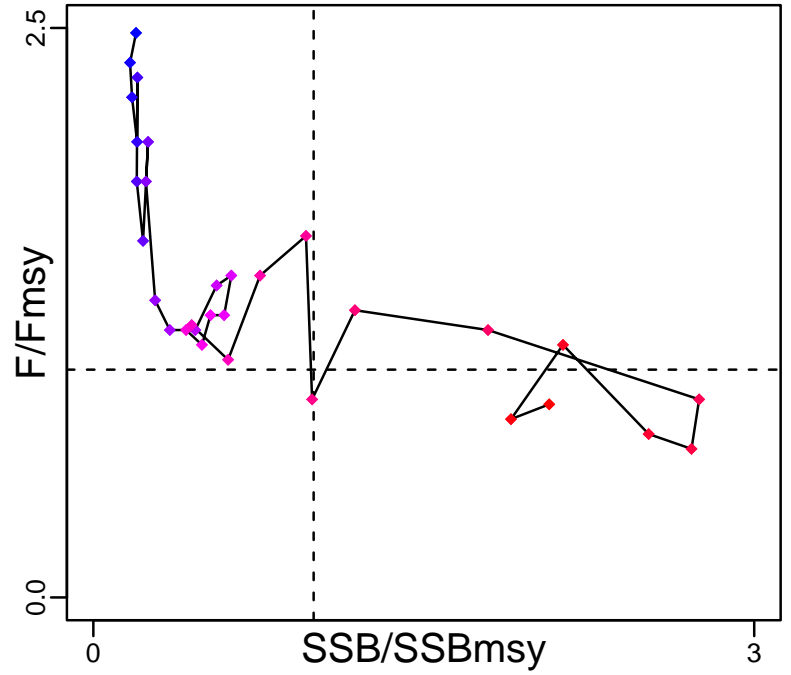
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	16,850	Both	-
<b>SSB</b>	SSB-MT	2019	29,800	-	-
<b>TN</b>	TN-E00	2015	70,334,820	Both	-
<b>R</b>	R-E00	2019	$4.62 \times 10^{10}$	-	1
<b>F</b>	F-1/yr	2019	0.39	-	-
<b>ER</b>	ER-calc-ratio	2015	0.07	-	-
<b>TC</b>	TC-MT	2019	7990		
<b>TL</b>	TL-MT	2015	1183		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2015	0.976		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2019	2.069		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2019	0.848		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2015	0.391		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

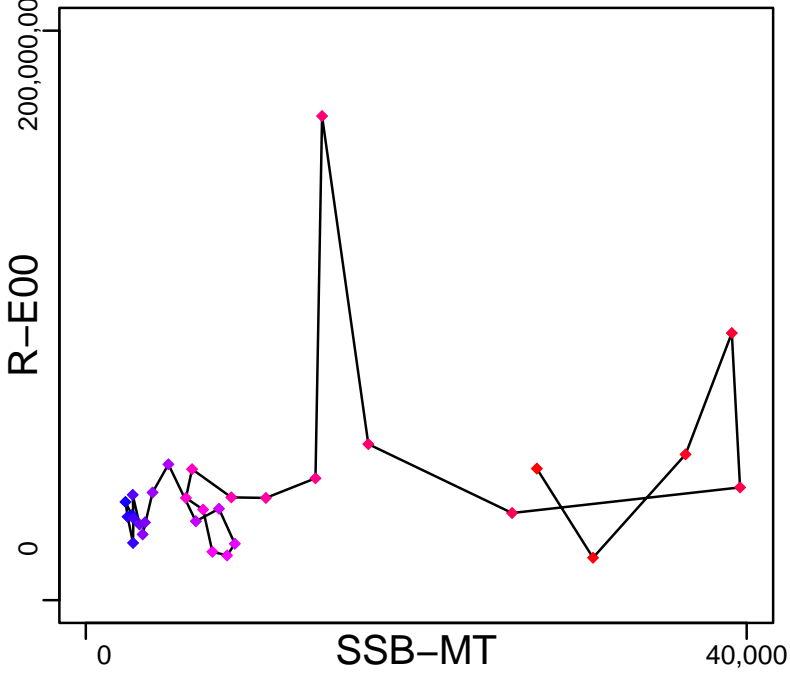
Kobe MSYpref (1989–2019–SISIMP2021–2)



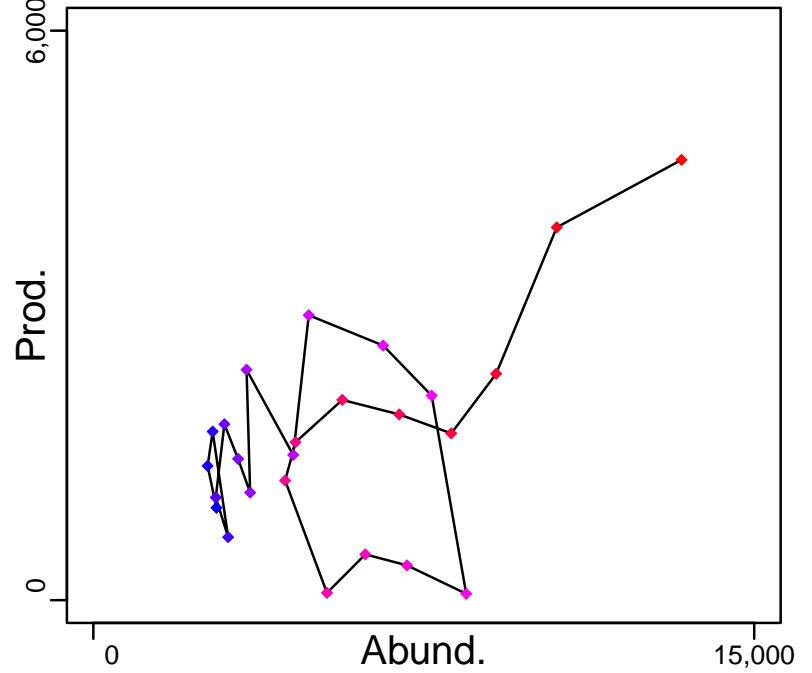
Kobe MGTpref (1989–2019–SISIMP2021–2)



Spawner Recruit (1989–2019–SISIMP2021–2)



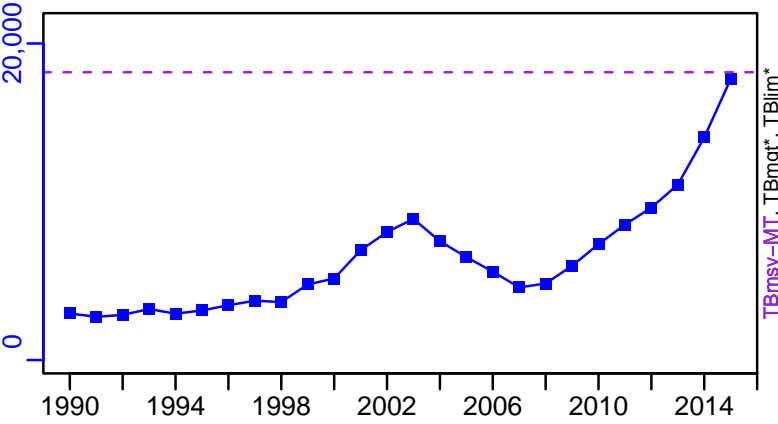
Production (1939–2015–ASHBROOK)



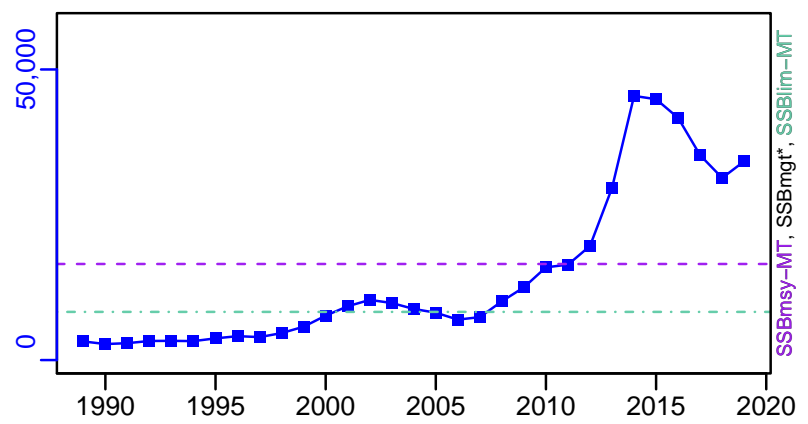
◆ Start Year ◆ End Year \* No Data

# Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

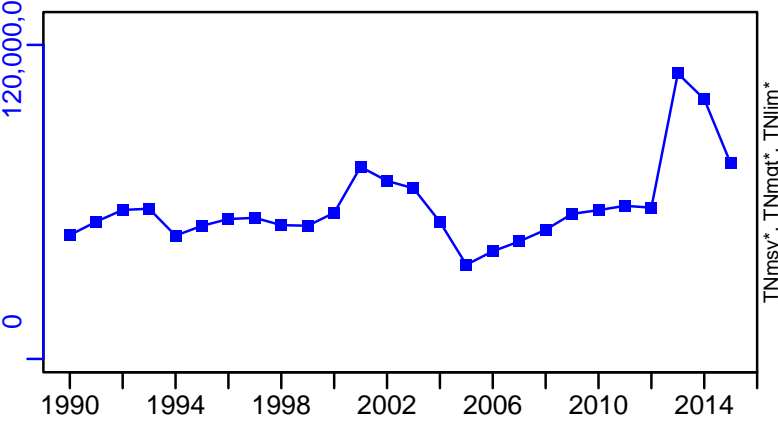
TB-MT (1939-2015-ASHBROOK)



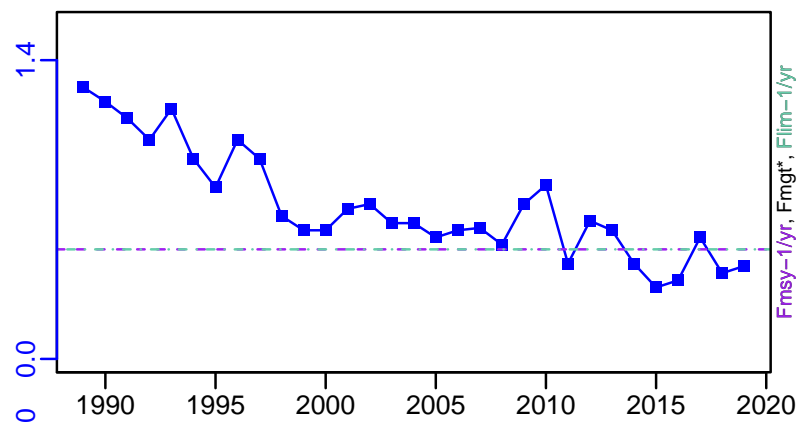
SSB-MT (1989-2019-SISIMP2021-2)



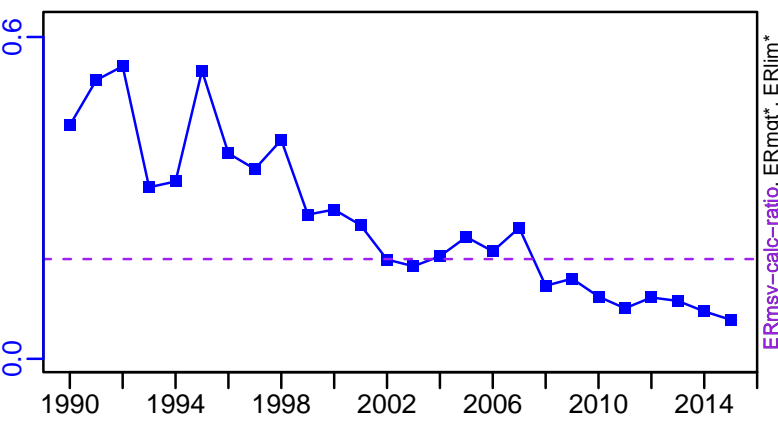
TN-E00 (1939-2015-ASHBROOK)



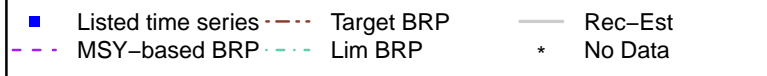
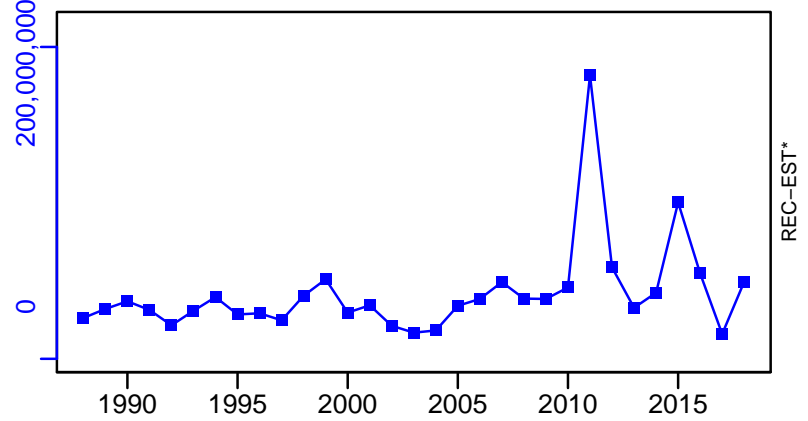
F-1/yr (1989-2019-SISIMP2021-2)



ER-calc-ratio (1939-2015-ASHBROOK)

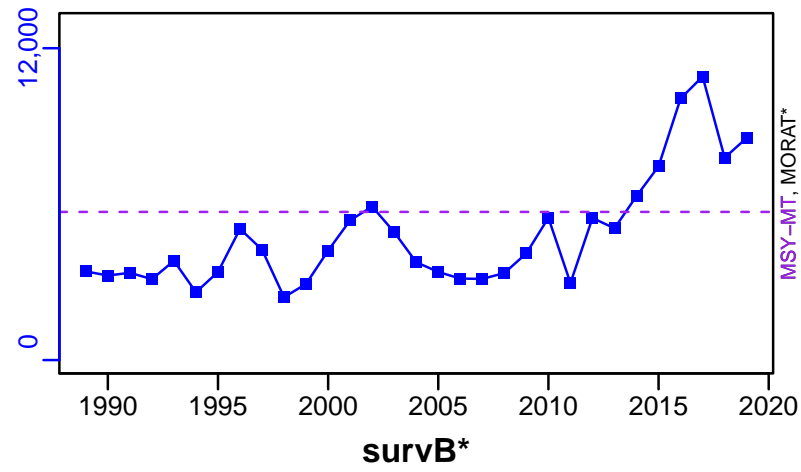


R-E00 (1989-2019-SISIMP2021-2)

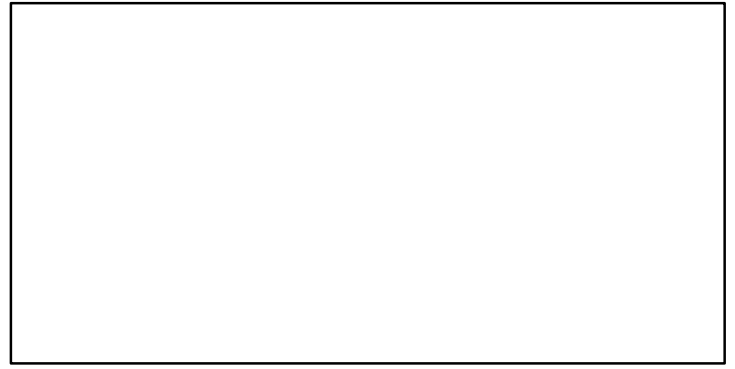


# Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

TC-MT, TL\*, RecC\* (1989-2019-SISIMP2021-2)



TAC\*, Cpair\*, Cadv\*



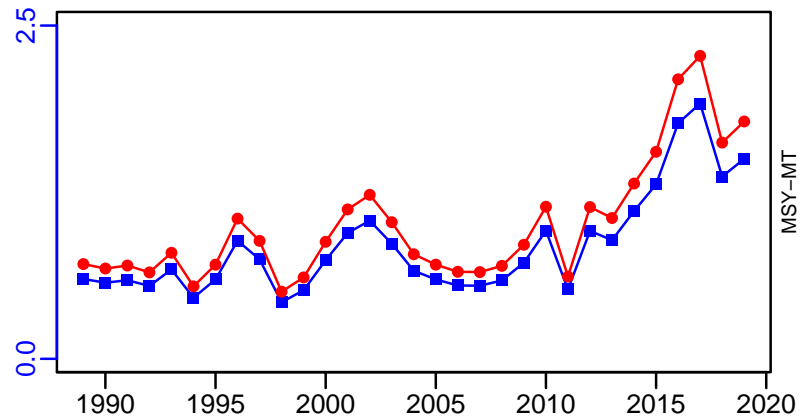
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1989-2019-SISIMP2021-2)



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



## Black sea bass South Atlantic [BSBASSSATL]

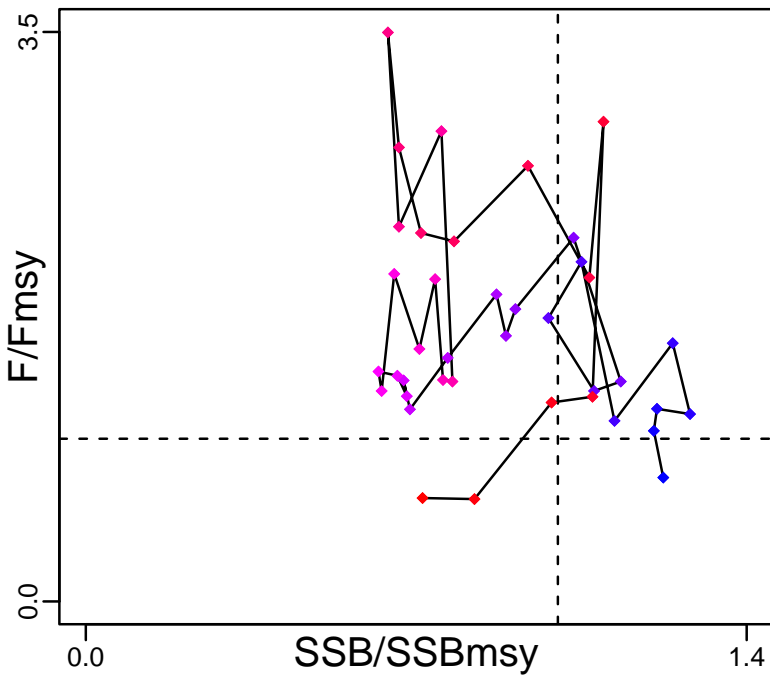
Metadata	
<b>Scientific Name</b>	Centropristis striata
<b>Current Assess ID</b>	SEFSC-BSBASSSATL-1977-2016-SISIMP2021
<b>Area</b>	South Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2010, 2016, 2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2010	5399
<b>SSBmsy</b>	SSBmsy-E00eggs	2016	$3 \times 10^{12}$
<b>Fmsy</b>	Fmsy-1/yr	2016	0.31
<b>ERmsy</b>	ERmsy-calc-ratio	2010	0.148
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2016	424
<b>M</b>	M-1/yr	2010	0.38
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2016	$1.86 \times 10^{12}$
<b>Flim</b>	Flim-1/yr	2016	0.31
<b>ERlim</b>	-	-	-

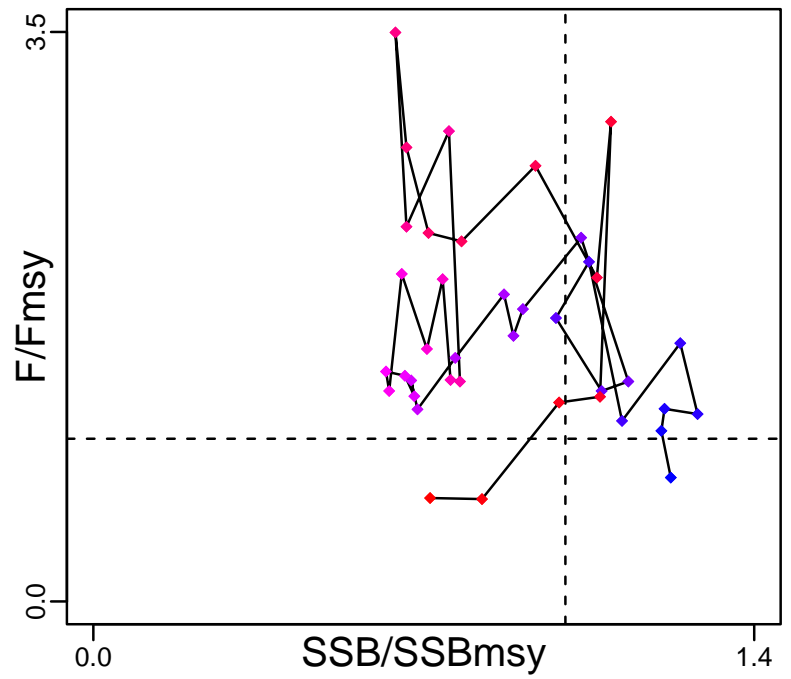
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	3800	-	-
<b>SSB</b>	SSB-E00eggs	2016	$2.14 \times 10^{12}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	20,625,990	-	1
<b>F</b>	F-1/yr	2016	0.197	-	-
<b>ER</b>	ER-calc-ratio	2010	0.154	-	-
<b>TC</b>	TC-MT	2016	262		
<b>TL</b>	TL-MT	2010	585		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2010	0.704		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2016	0.713		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.635		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2010	1.037		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Black sea bass South Atlantic [BSBASSSATL]

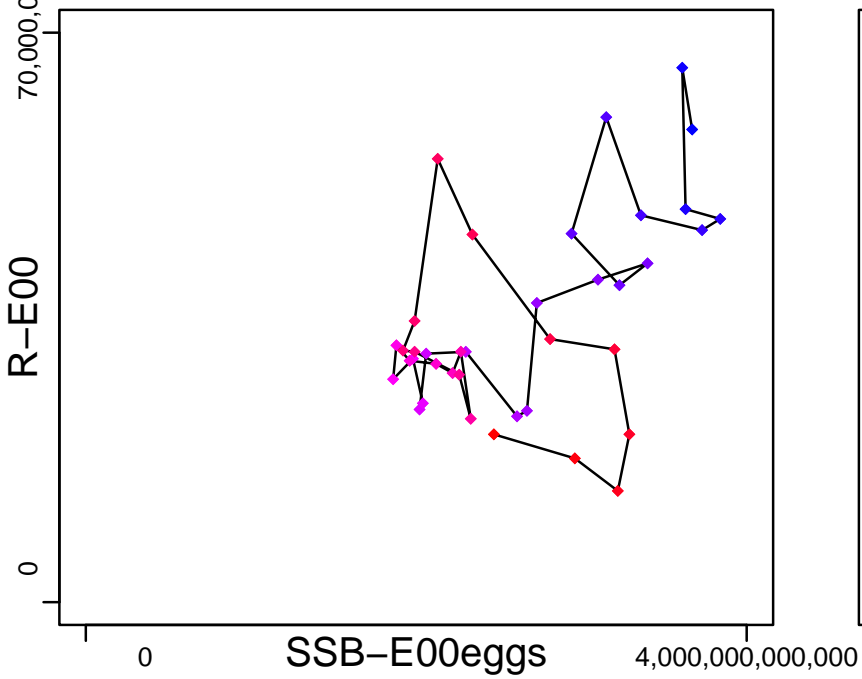
Kobe MSYpref (1977–2016–SISIMP2021)



Kobe MGTpref (1977–2016–SISIMP2021)



Spawner Recruit (1977–2016–SISIMP2021)



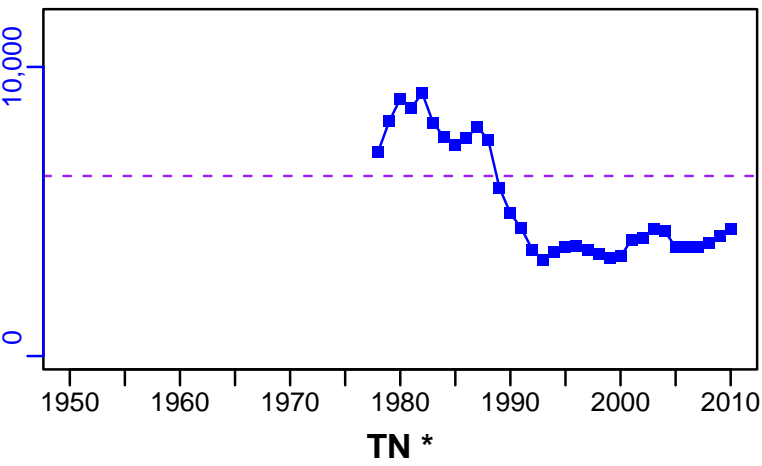
Production\*



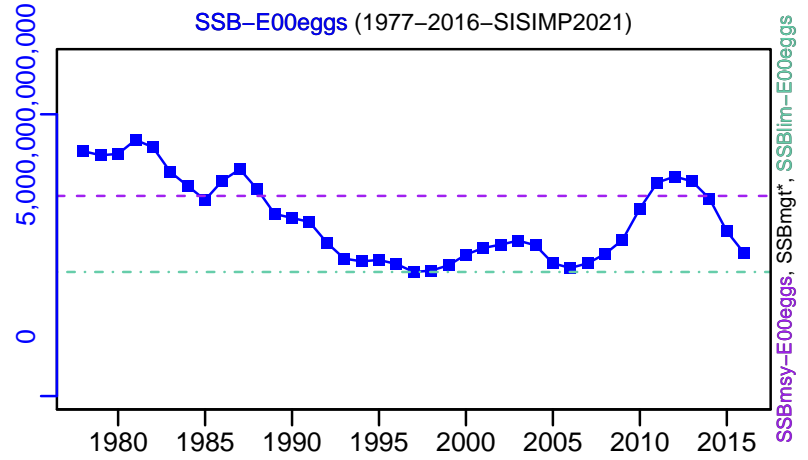
◆ Start Year ◆ End Year \* No Data

# Black sea bass South Atlantic [BSBASSSATL]

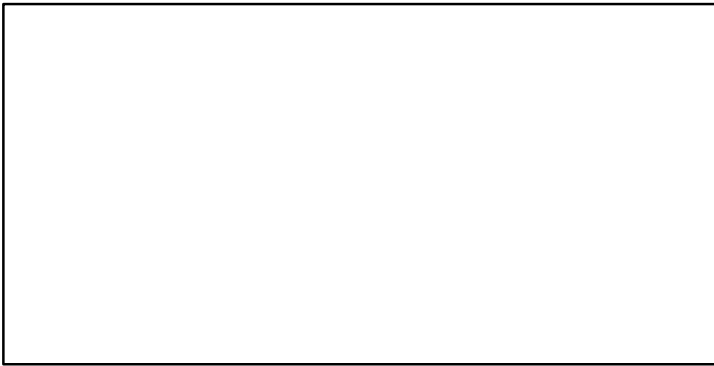
TB-MT (1950-2010-HIVELY)



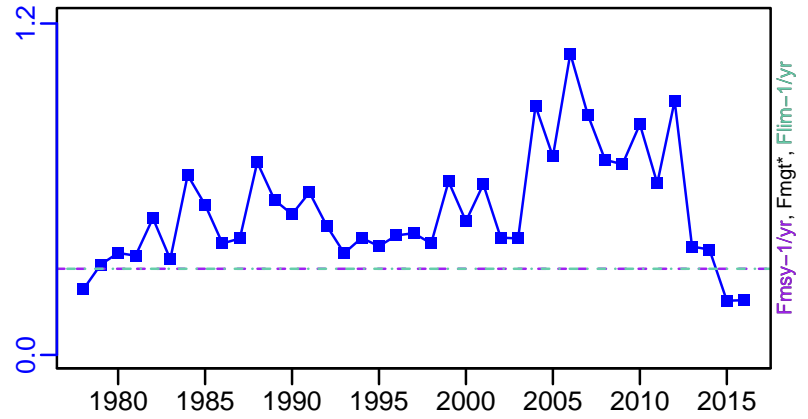
SSB-E00eggs (1977-2016-SISIMP2021)



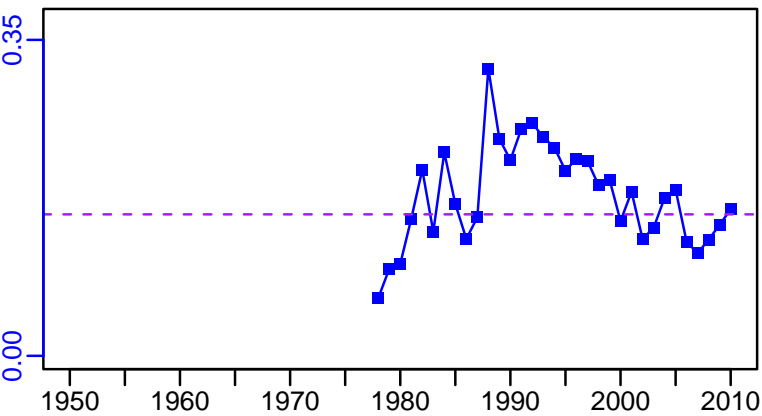
TN \*



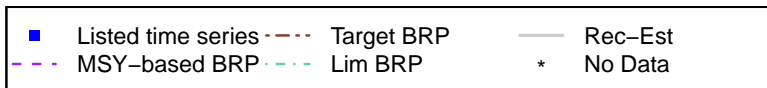
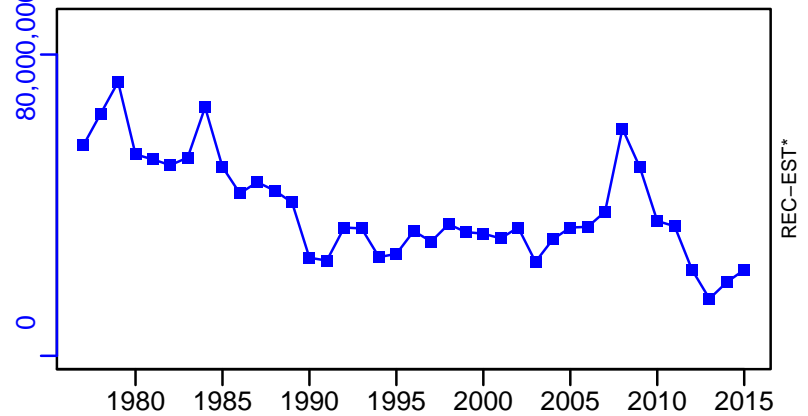
F-1/yr (1977-2016-SISIMP2021)



ER-calc-ratio (1950-2010-HIVELY)

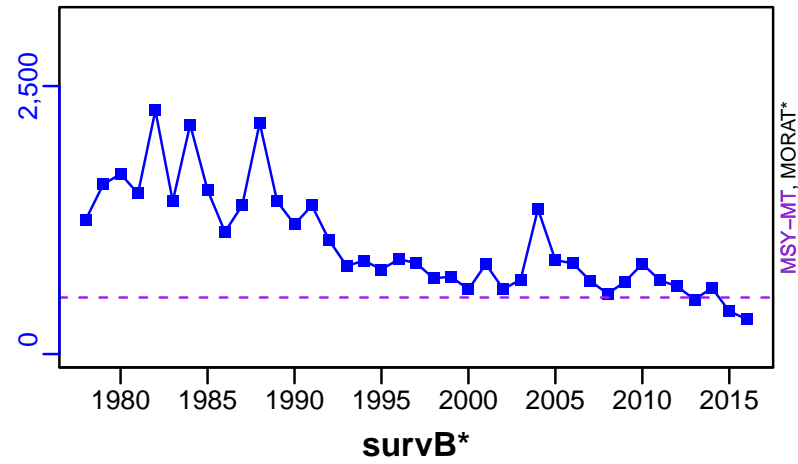


R-E00 (1977-2016-SISIMP2021)

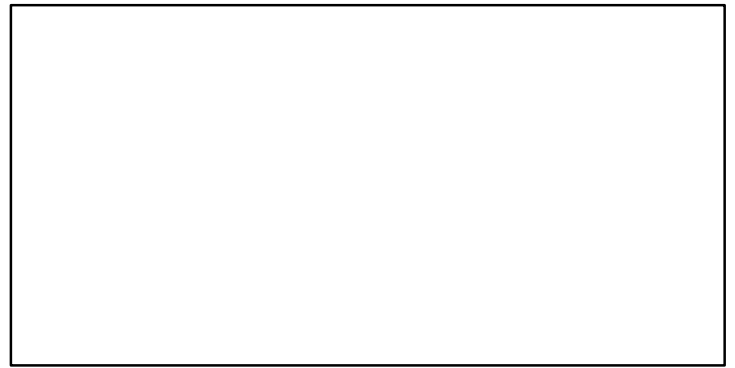


# Black sea bass South Atlantic [BSBASSSATL]

TC-MT, TL\*, RecC\* (1977-2016-SISIMP2021)



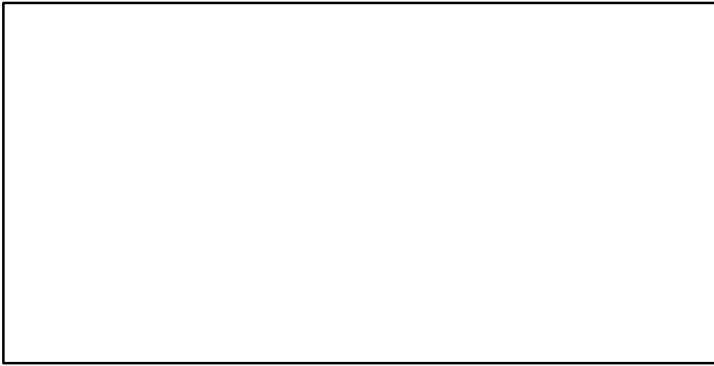
TAC\*, Cpair\*, Cadv\*



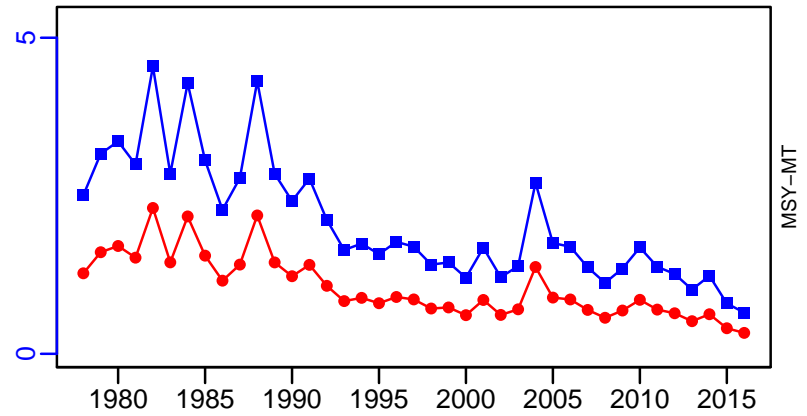
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1977-2016-SISIMP2021)



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

**Bluespotted seabream North West Africa Mauritania-Senegal  
[BSBRMNWAMRT-SEN]**

Metadata	
<b>Scientific Name</b>	Pagrus caeruleostictus
<b>Current Assess ID</b>	FAO-DR-BSBRMNWAMRT-SEN-1990-2016-ASHBROOK
<b>Area</b>	North West Africa Mauritania-Senegal
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	11,672		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

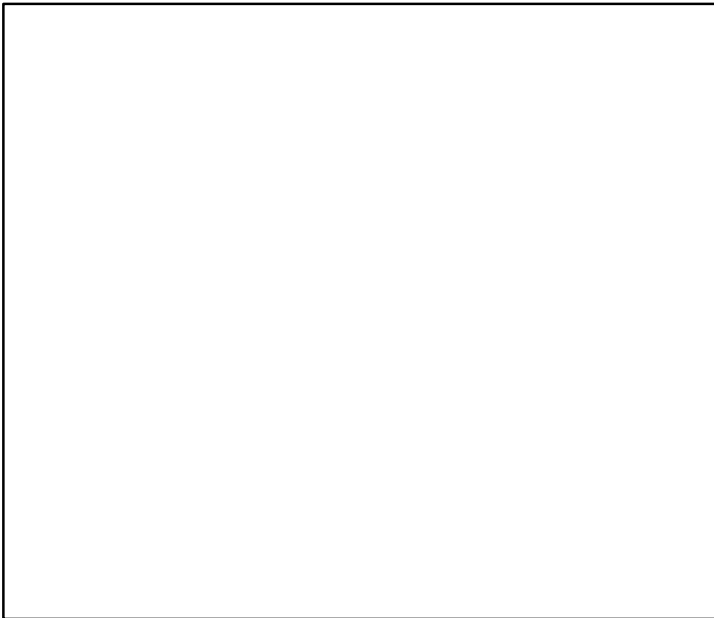
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

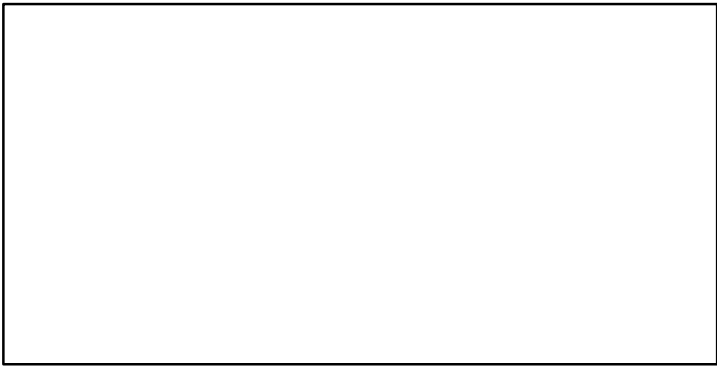
**TB\***



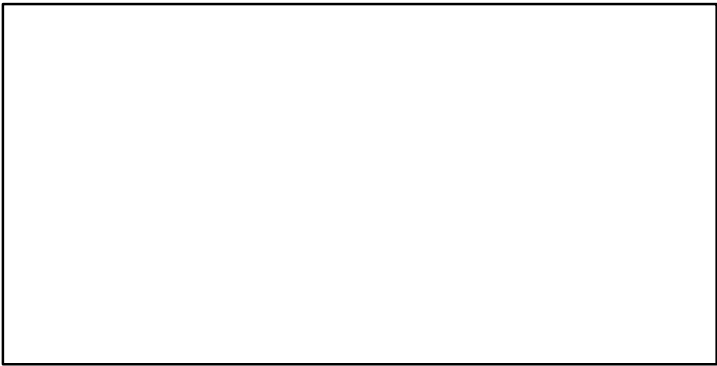
**SSB\***



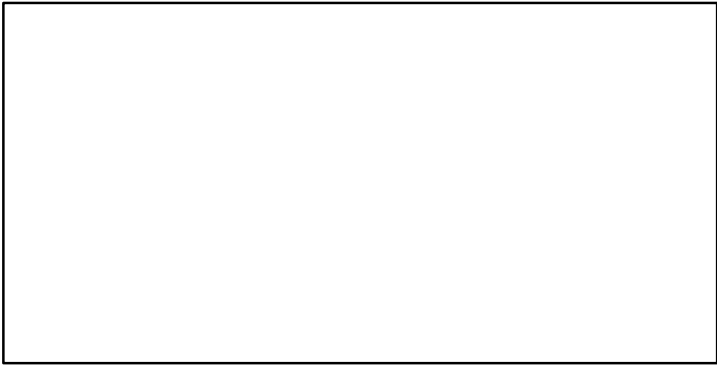
**TN \***



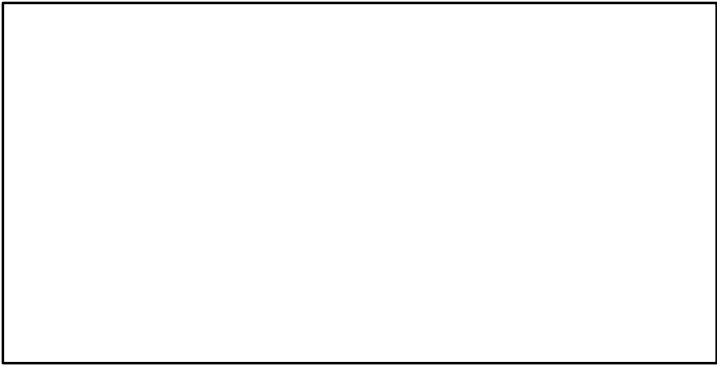
**F\***



**ER\***

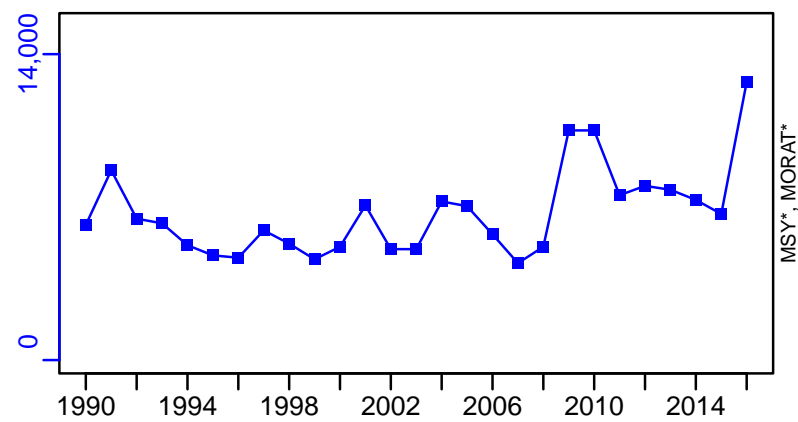


**Recruits\***

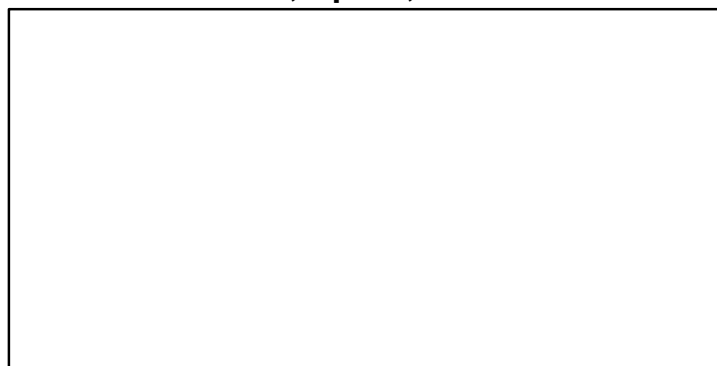


# Bluespotted seabream North West Africa Mauritania–Senegal [BSBRMNWAMRT–SEN]

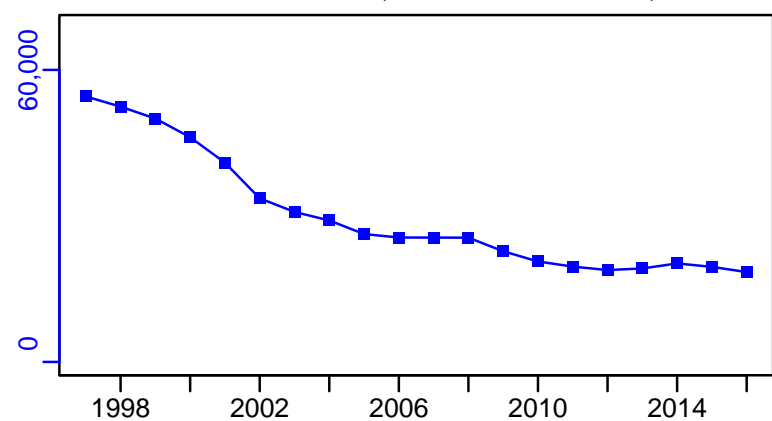
TC–MT, TL\*, RecC\* (1990–2016–ASHBROOK)



TAC\*, Cpair\*, Cadv\*



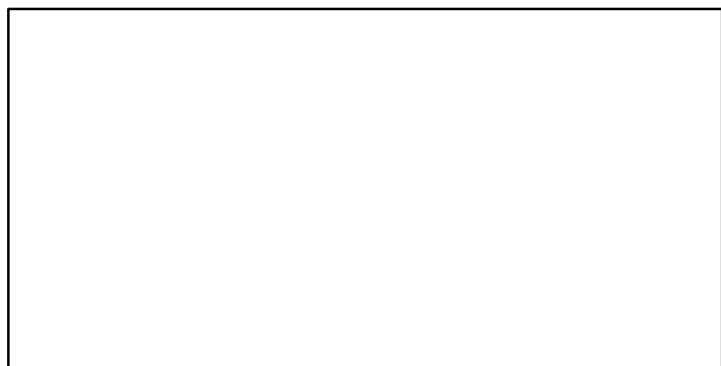
survB\_index–index (1990–2016–ASHBROOK)



CPUE\*



EFFORT\*



CdivMSY\*



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



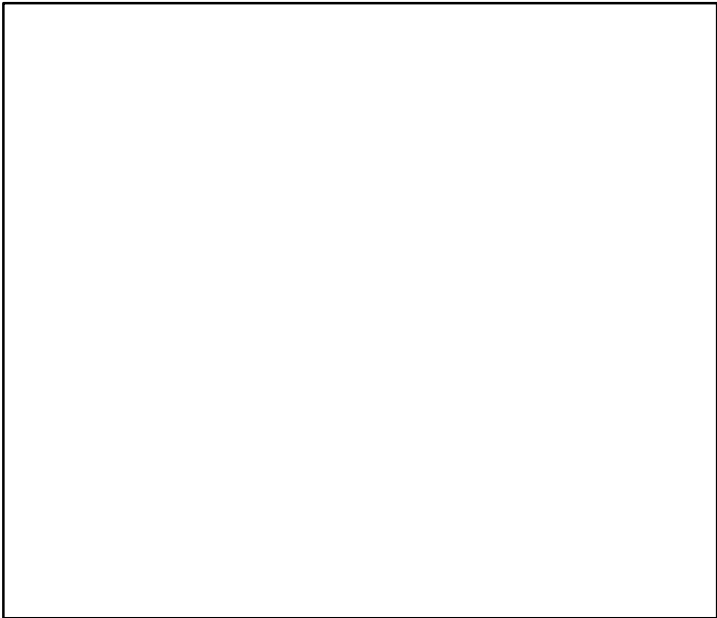
## Crimson jobfish Main Hawaiian Islands [CJOBMHI]

Metadata	
<b>Scientific Name</b>	Pristipomoides filamentosus
<b>Current Assess ID</b>	PIFSC-CJOBMHI-1949-2016-SISIMP2021
<b>Area</b>	Main Hawaiian Islands
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Pacific Fisheries Science Center
<b>Asmts in RAM</b>	2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	312
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	190		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

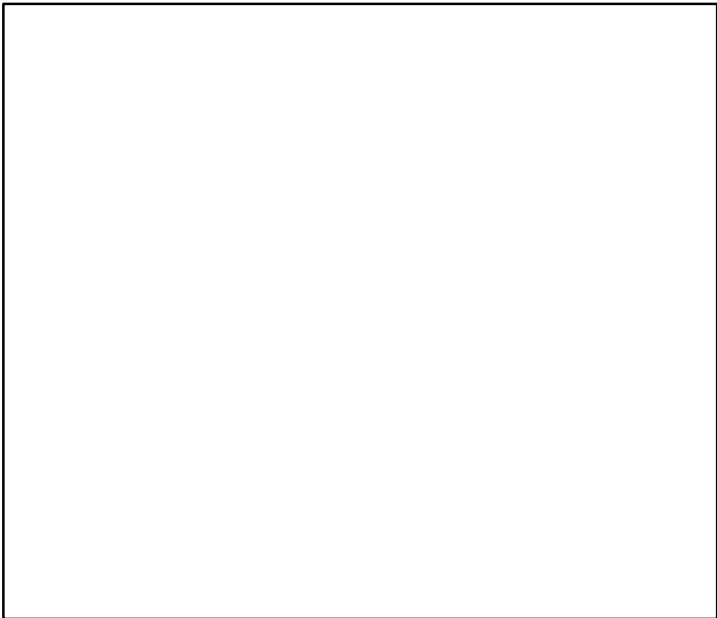
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year ◆ End Year \* No Data

Crimson jobfish Main Hawaiian Islands [CJOBMHI]

TB\*



SSB\*



TN \*



F\*



ER\*

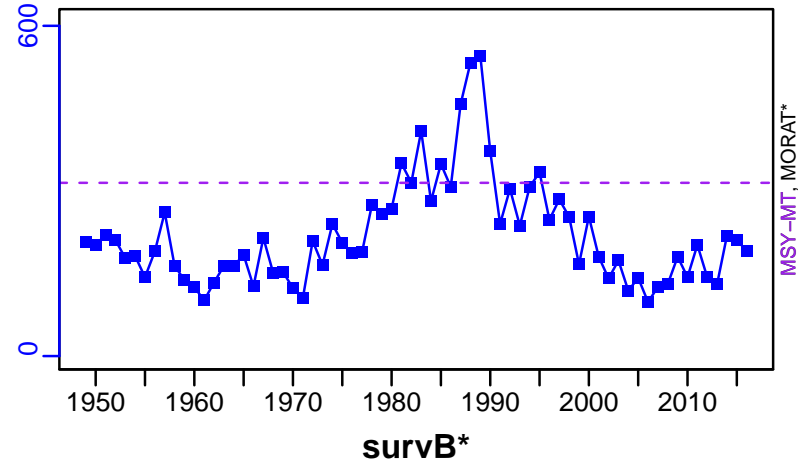


Recruits\*

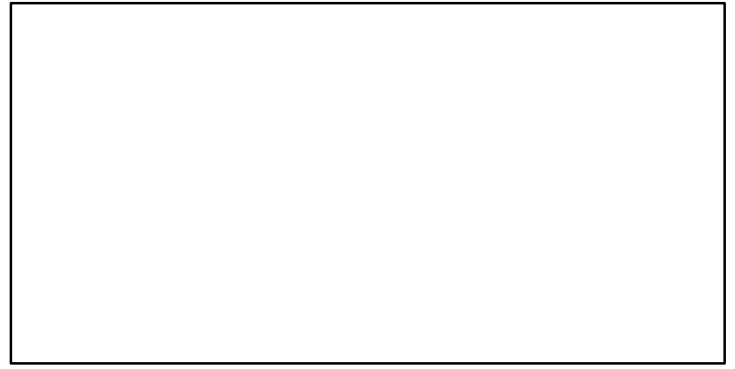


# Crimson jobfish Main Hawaiian Islands [CJOBMHI]

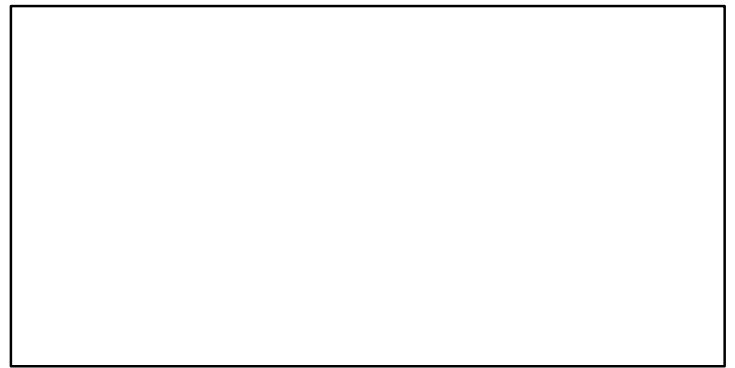
TC-MT, TL\*, RecC\* (1949–2016–SISIMP2021)



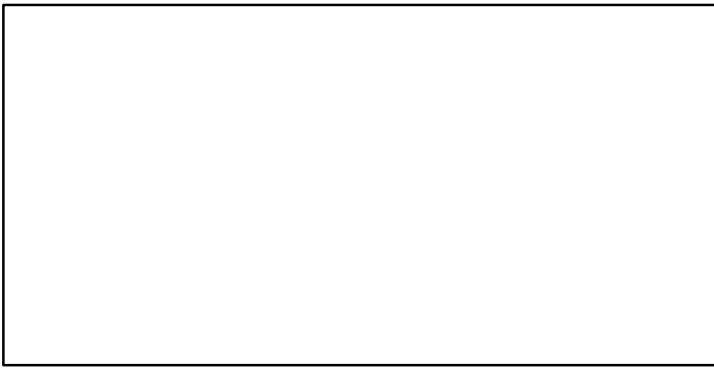
TAC\*, Cpair\*, Cadv\*



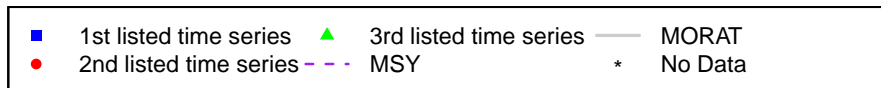
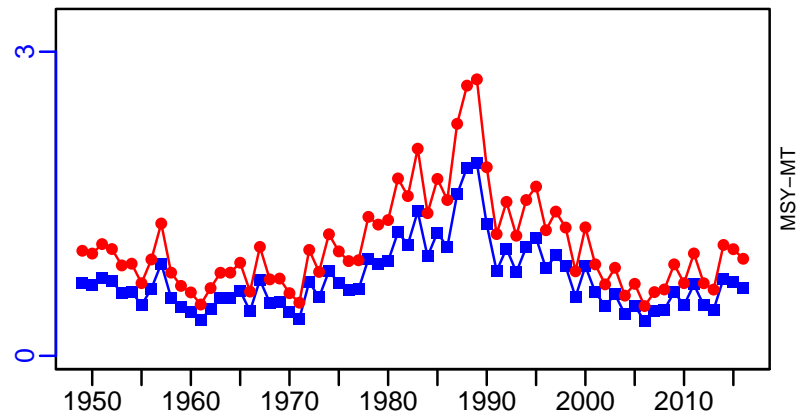
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1949–2016–SISIMP2021)



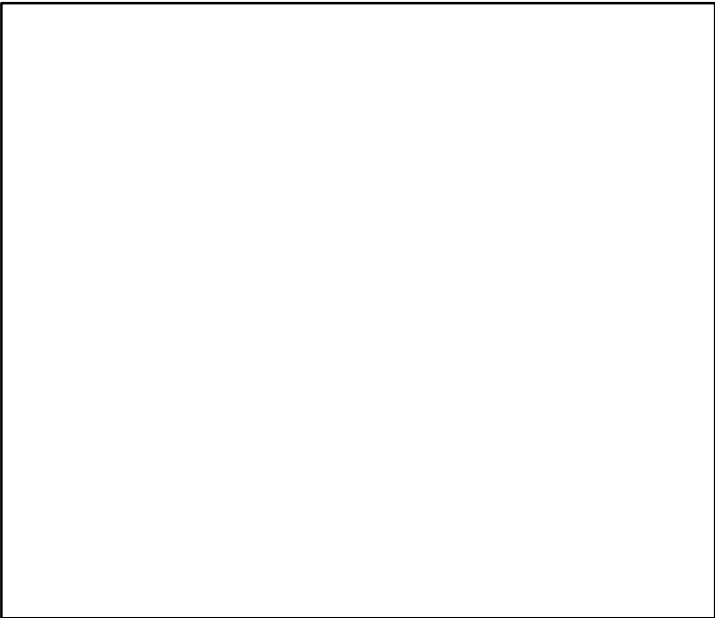
## Crimson jobfish Okinawa Islands [CJOBOKWI]

Metadata	
<b>Scientific Name</b>	Pristipomoides filamentosus
<b>Current Assess ID</b>	FAFRFJ-CJOBOKWI-1989-2013-JPNIMP2016
<b>Area</b>	Okinawa Islands
<b>Management Authority</b>	Fisheries Agency of Japan
<b>Assessor</b>	Fisheries Agency and Fisheries Research Agency of Japan
<b>Asmts in RAM</b>	2013

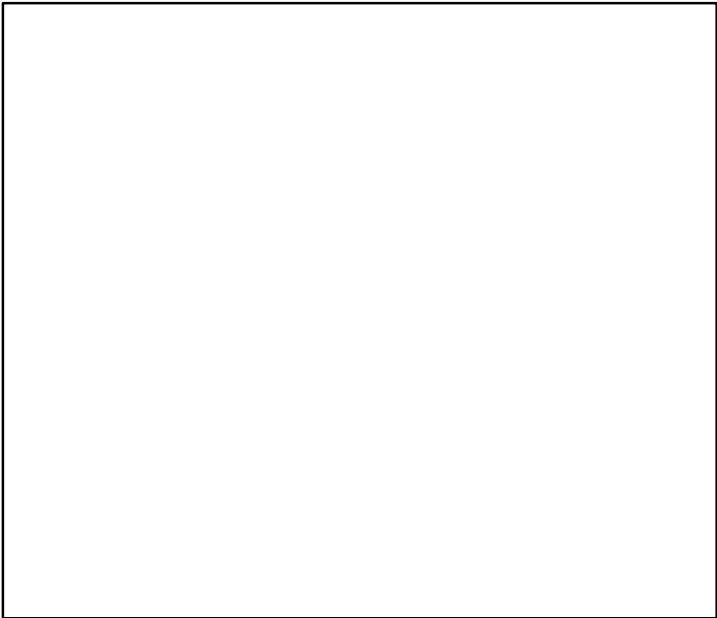
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	25		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

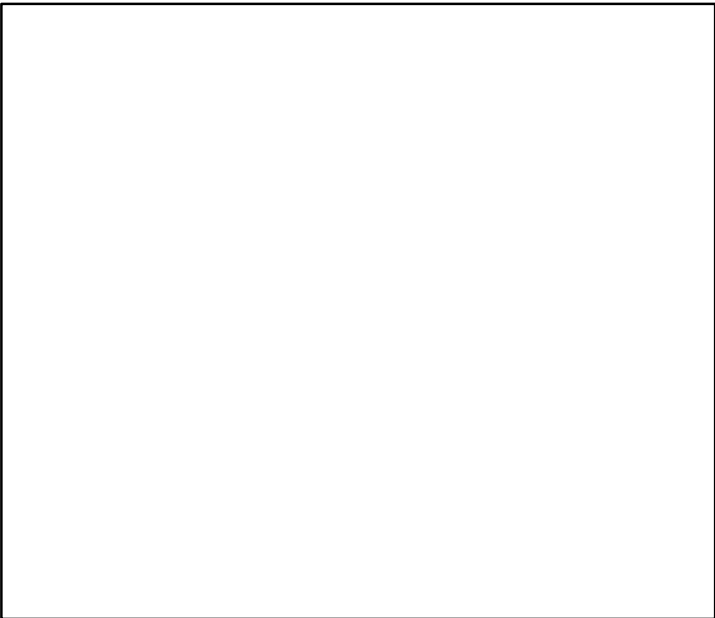
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Crimson jobfish Okinawa Islands [CJOBOKWI]

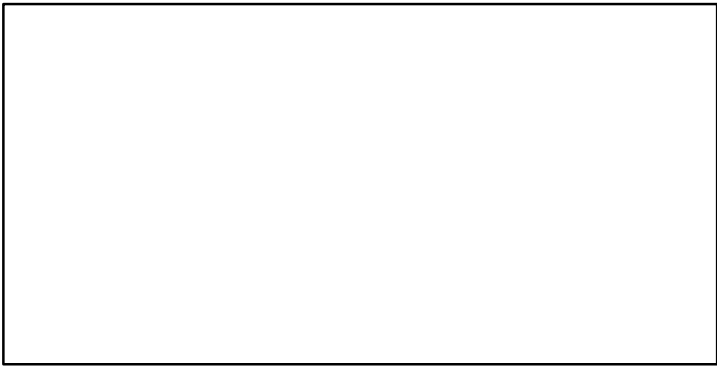
TB\*



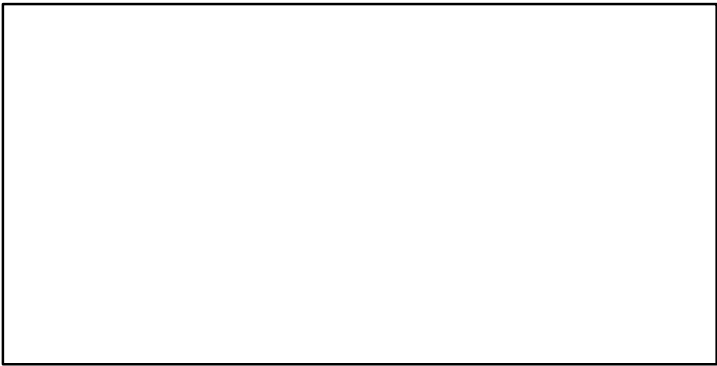
SSB\*



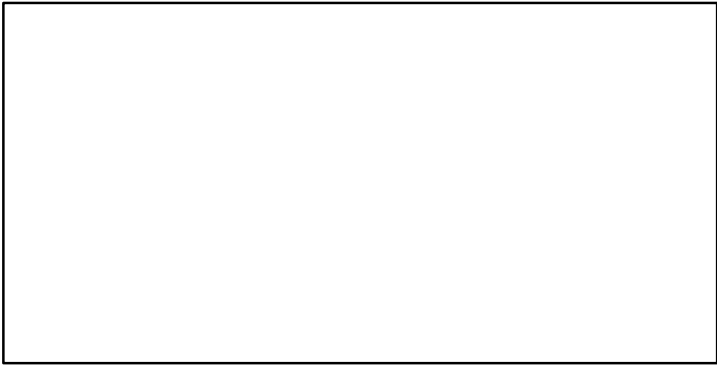
TN \*



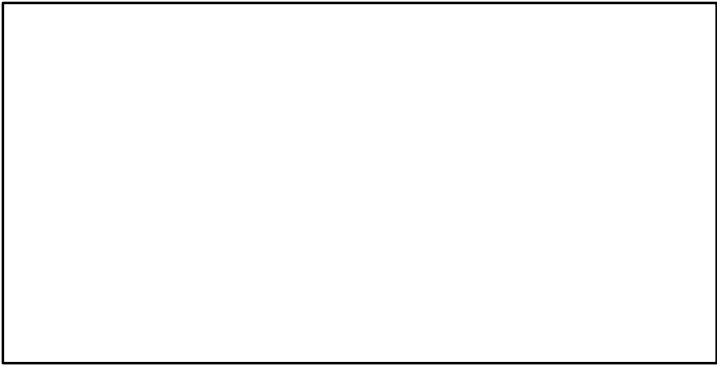
F\*



ER\*



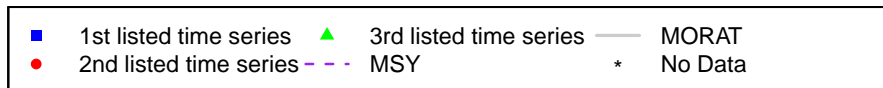
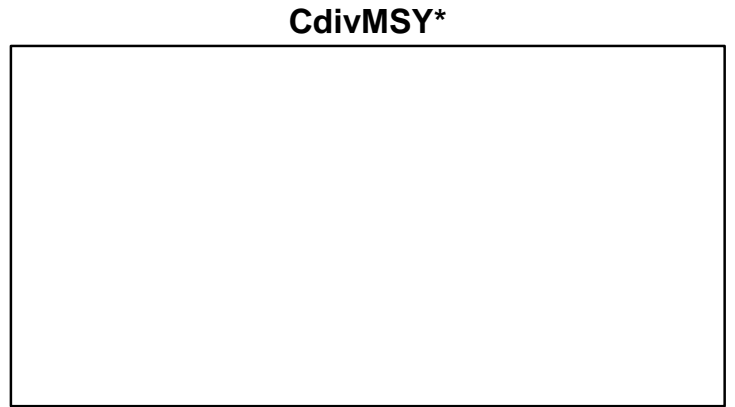
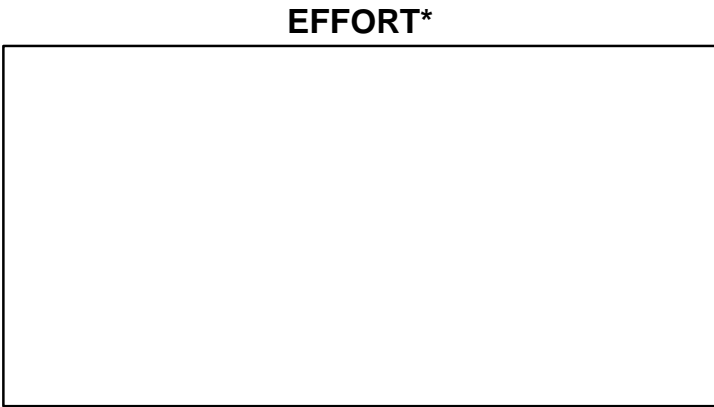
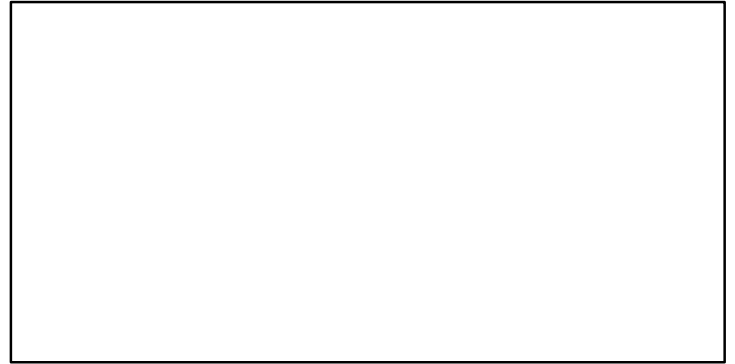
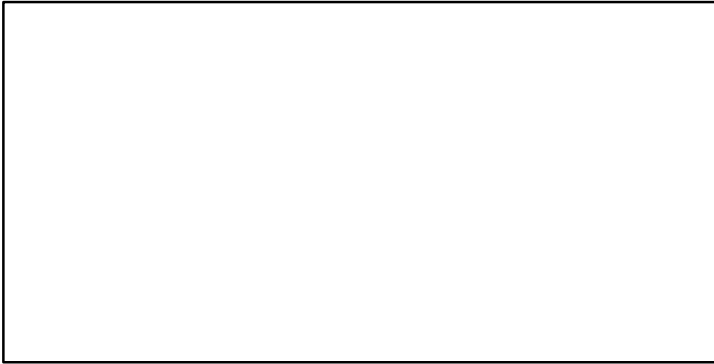
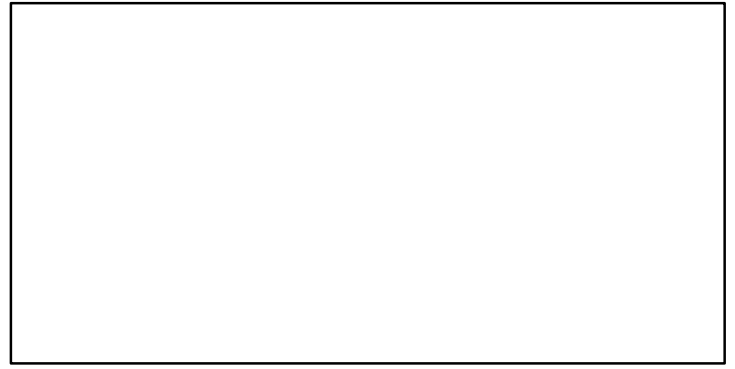
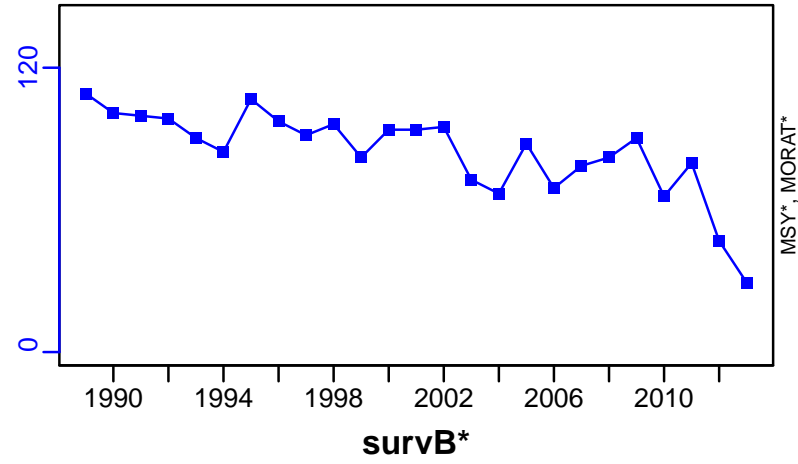
Recruits\*



# Crimson jobfish Okinawa Islands [CJOBOKWI]

TC-MT, TL\*, RecC\* (1989–2013–JPNIMP2016)

TAC\*, Cpair\*, Cadv\*





## Cobia Gulf of Mexico [COBGM]

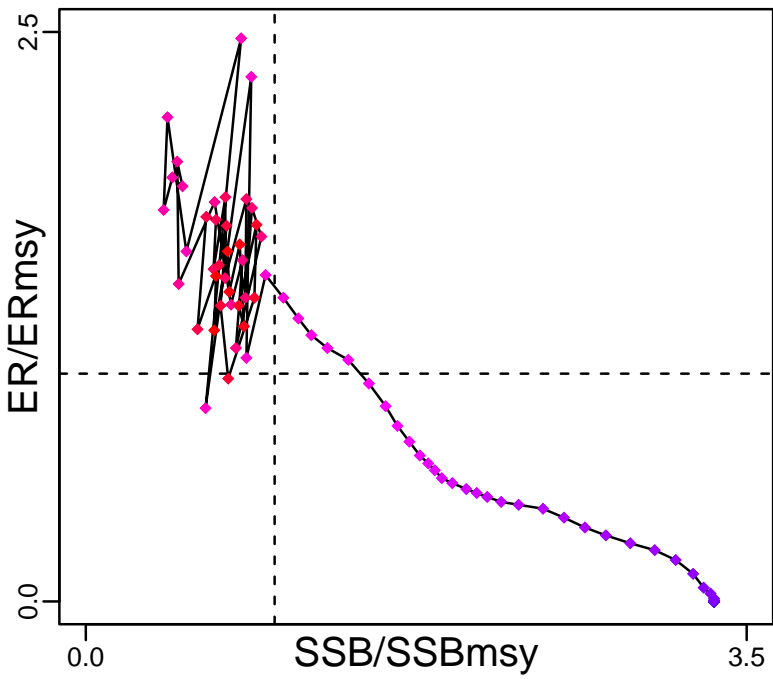
Metadata	
<b>Scientific Name</b>	Rachycentron canadum
<b>Current Assess ID</b>	SEFSC-COBGM-1927-2018-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011, 2018

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2018	10,606
<b>SSBmsy</b>	SSBmsy-MT	2018	5410
<b>Fmsy</b>	Fmsy-1/yr	2011	0.378
<b>ERmsy</b>	ERmsy-ratio	2018	0.231
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2011	0.378
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2018	2450
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	3350
<b>Flim</b>	Flim-1/yr	2011	0.378
<b>ERlim</b>	ERlim-ratio	2018	0.231

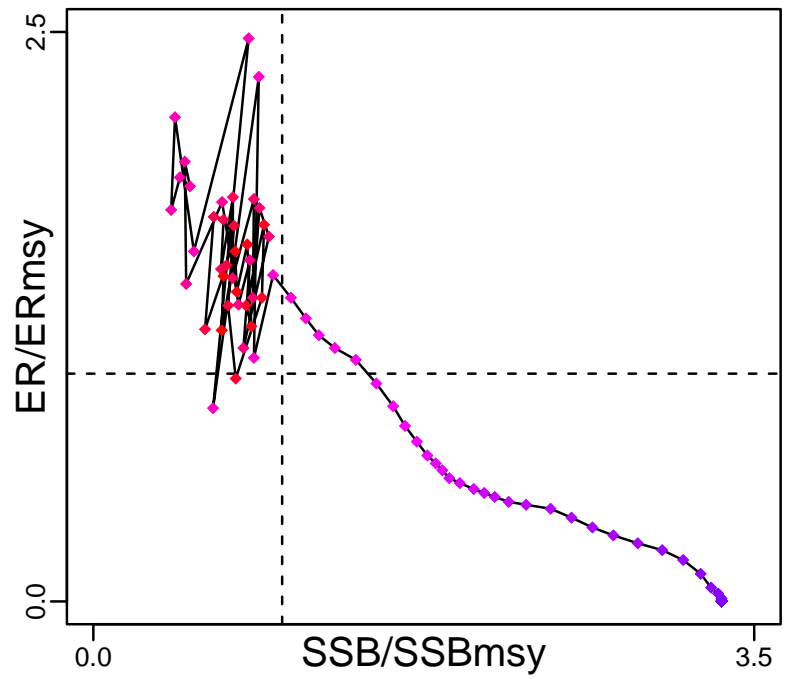
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	3020	-	1+
<b>SSB</b>	SSB-MT	2018	3730	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	1,300,000	-	0
<b>F</b>	F-1/yr	2011	0.676	-	-
<b>ER</b>	ER-ratio	2018	0.33	-	-
<b>TC</b>	TC-MT	2018	1870		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2018	0.689		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2011	1.788		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2018	1.429		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2011	1.788		
<b>ER/ERmgt</b>	-	-	-		

# Cobia Gulf of Mexico [COBGM]

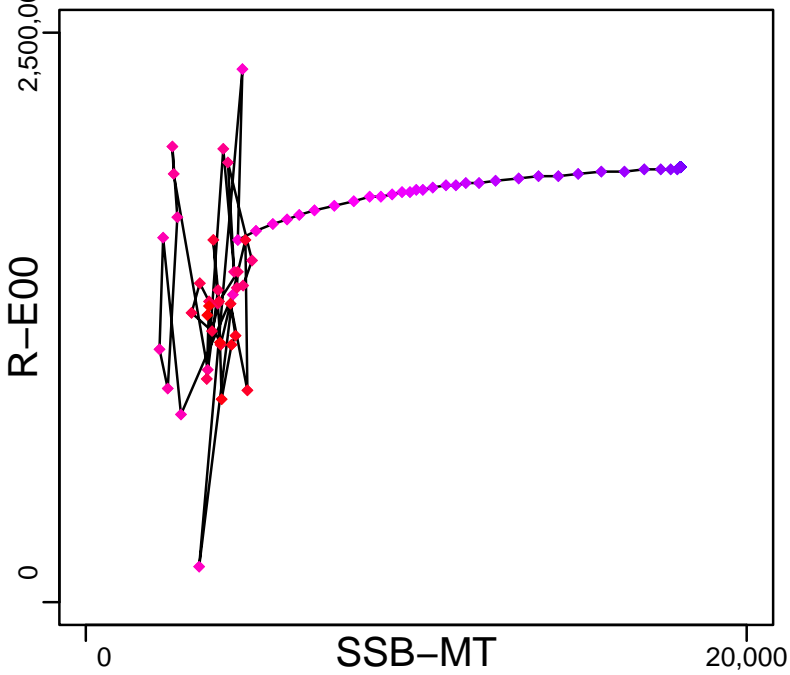
Kobe MSYpref (1927–2018–SISIMP2021–2)



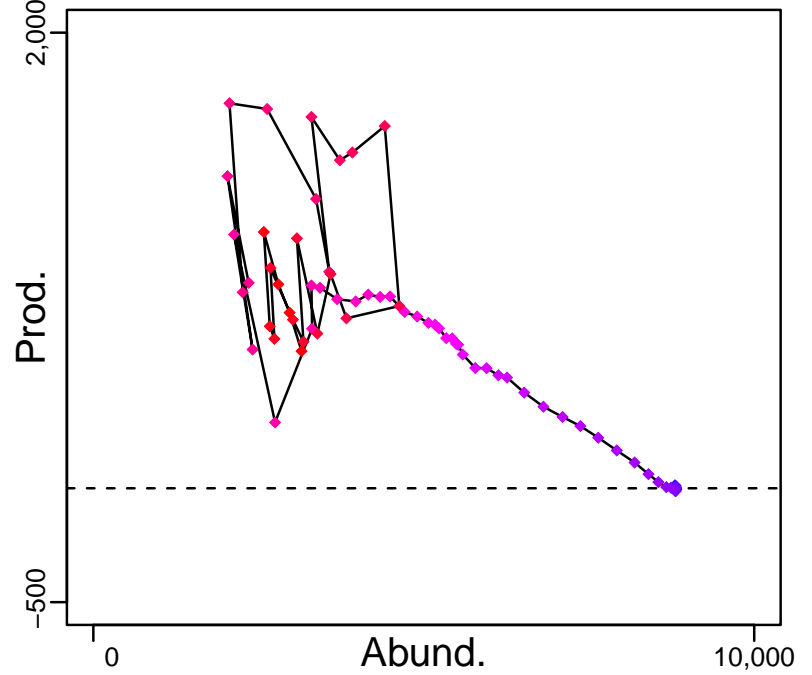
Kobe MGTpref (1927–2018–SISIMP2021–2)



Spawner Recruit (1927–2018–SISIMP2021–2)



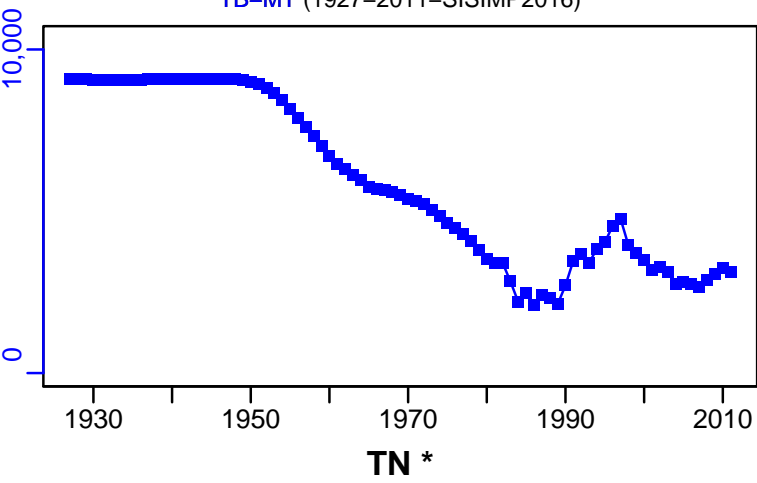
Production (1927–2011–SISIMP2016)



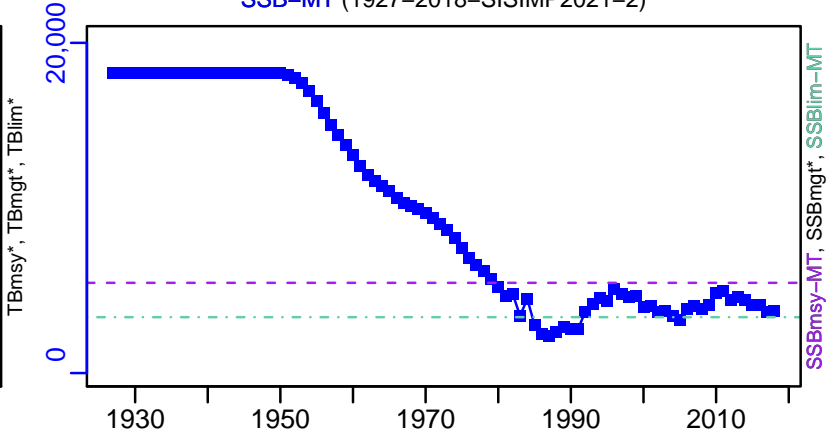
◆ Start Year ◆ End Year \* No Data

# Cobia Gulf of Mexico [COBGM]

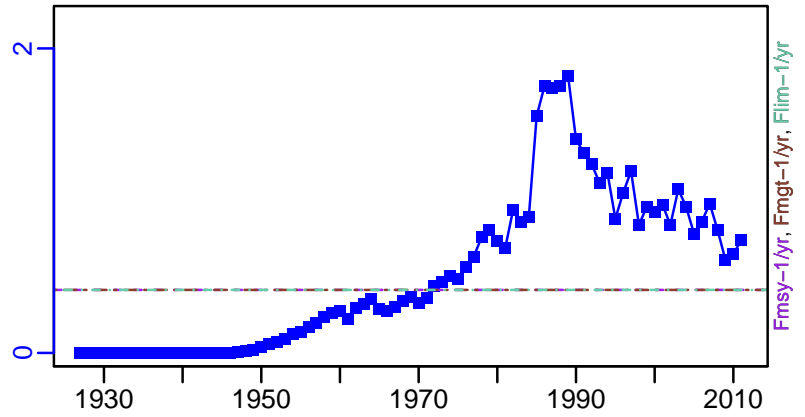
TB-MT (1927-2011-SISIMP2016)



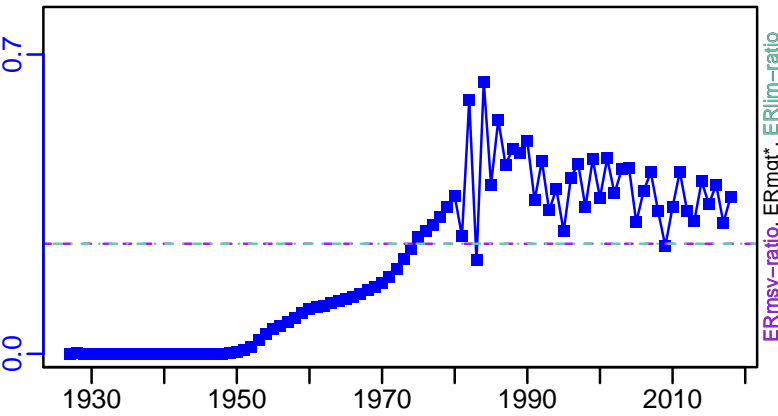
SSB-MT (1927-2018-SISIMP2021-2)



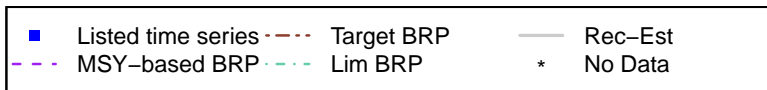
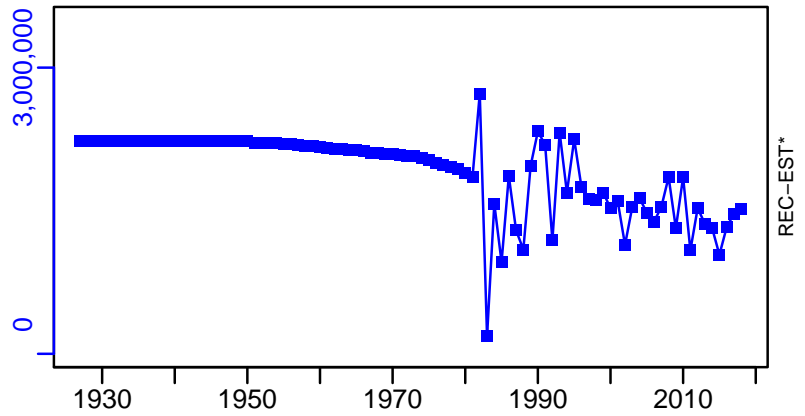
F-1/yr (1927-2011-SISIMP2016)



ER-ratio (1927-2018-SISIMP2021-2)

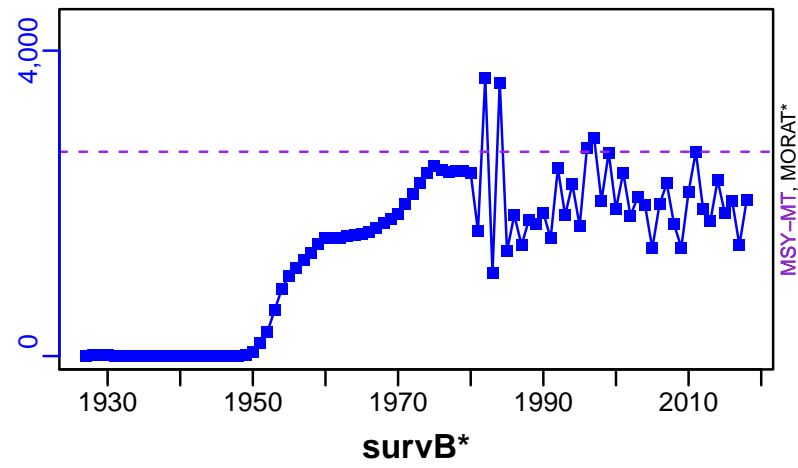


R-E00 (1927-2018-SISIMP2021-2)

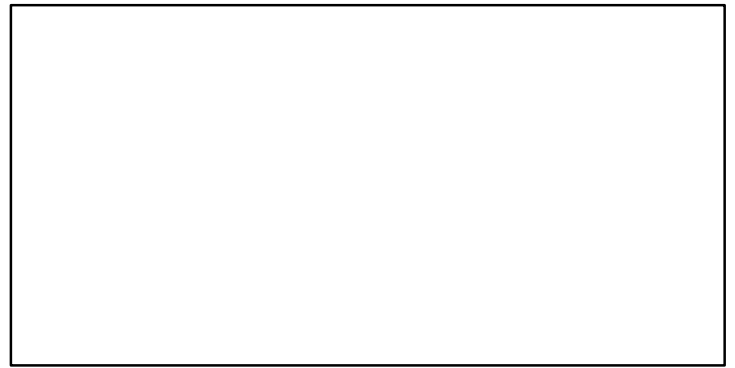


# Cobia Gulf of Mexico [COBGM]

TC-MT, TL\*, RecC\* (1927-2018-SISIMP2021-2)



TAC\*, Cpair\*, Cadv\*



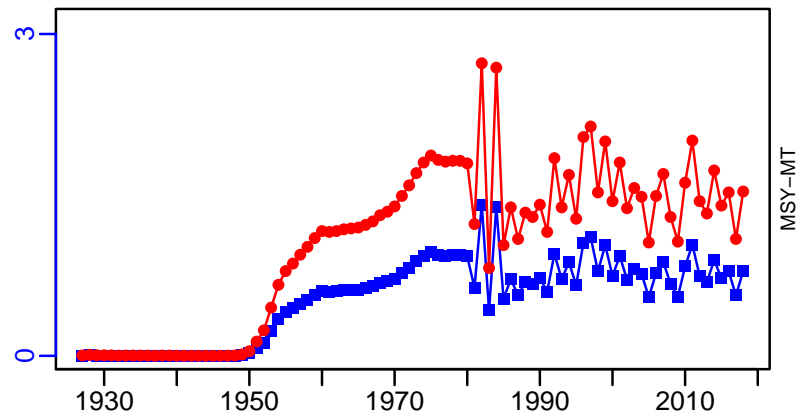
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1927-2018-SISIMP2021-2)



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

## Cobia Southern Atlantic coast [COBSATLC]

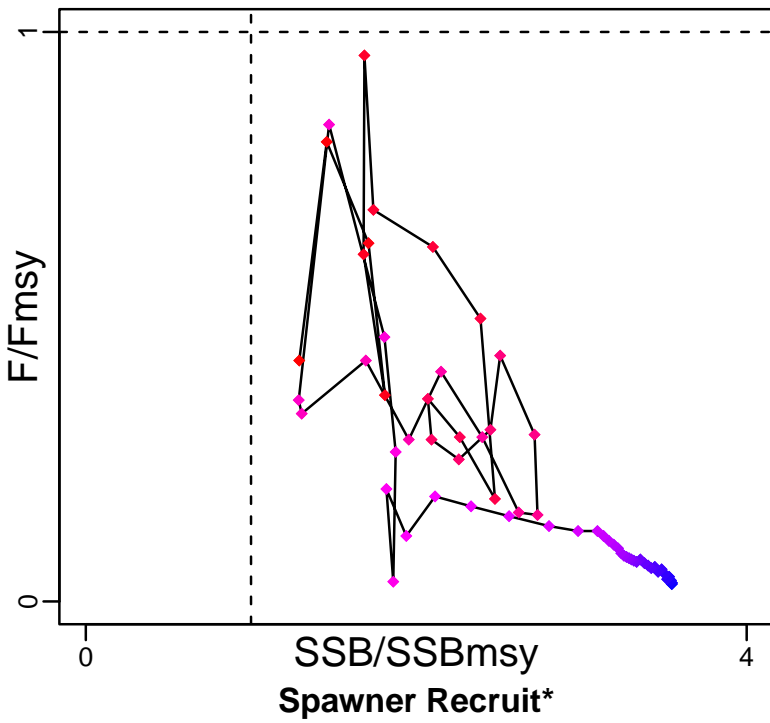
Metadata	
<b>Scientific Name</b>	Rachycentron canadum
<b>Current Assess ID</b>	SEFSC-COBSATLC-1950-2011-SISIMP2016
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2011	537
<b>Fmsy</b>	Fmsy-1/yr	2011	0.461
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2011	367
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2011	397
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

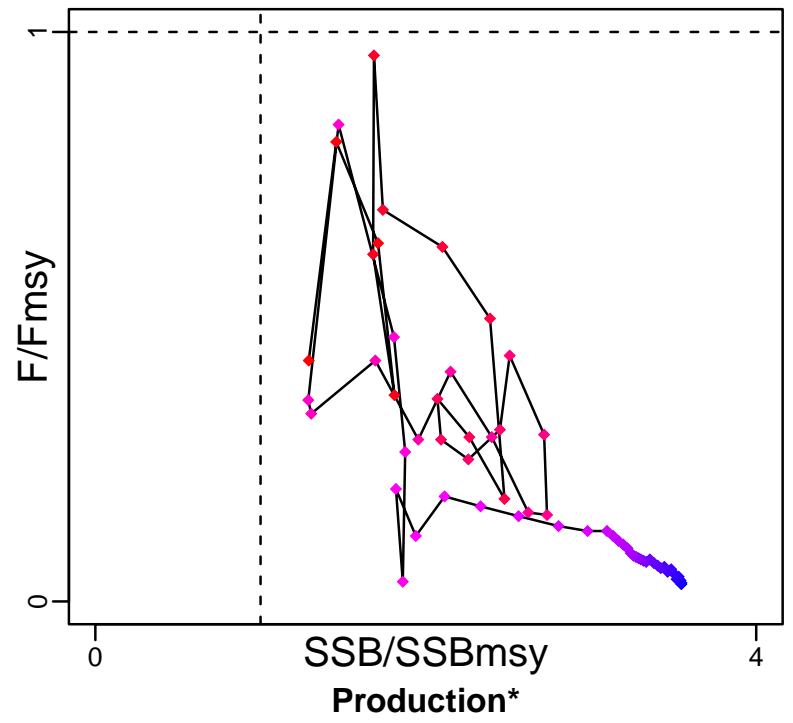
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2011	693	Females	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2011	0.195	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2011	15	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2011	1.292	-	-
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2011	0.423	-	-
<b>ER/ERmsy</b>	-	-	-	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	-	-	-	-	-
<b>F/Fmgt</b>	-	-	-	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

Cobia Southern Atlantic coast [COBSATLC]

Kobe MSY<sub>pref</sub> (1950–2011–SISIMP2016)



Kobe MGT<sub>pref</sub> (1950–2011–SISIMP2016)



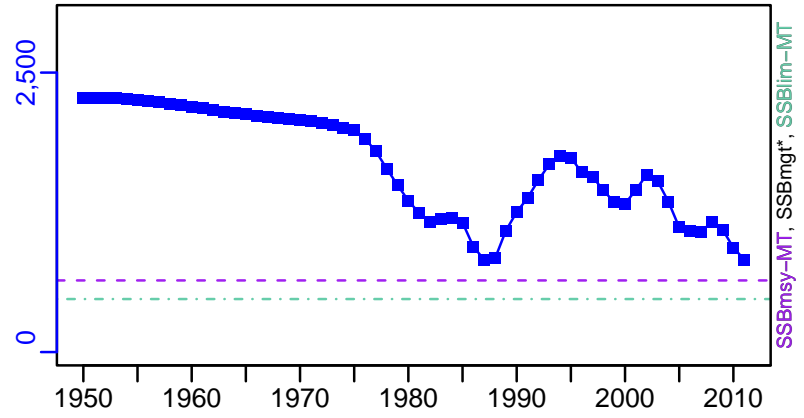
◆ Start Year ◆ End Year \* No Data

Cobia Southern Atlantic coast [COBSATLC]

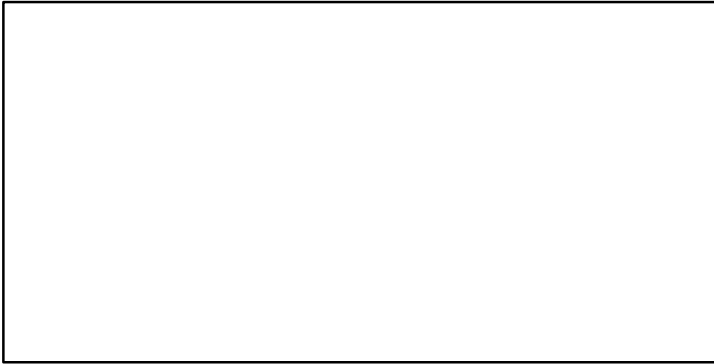
TB\*



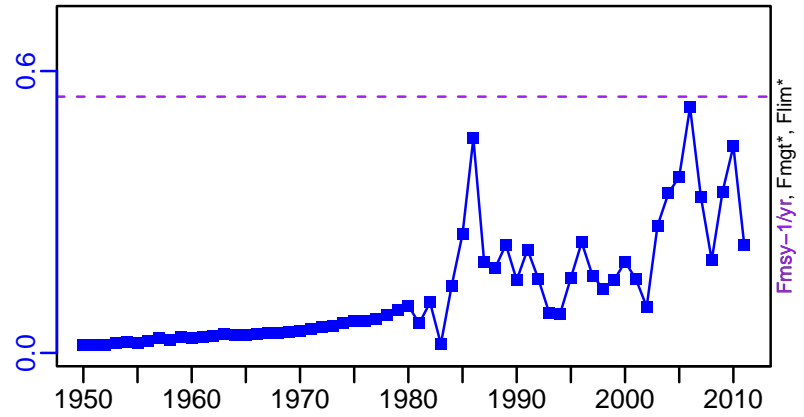
SSB-MT (1950–2011–SISIMP2016)



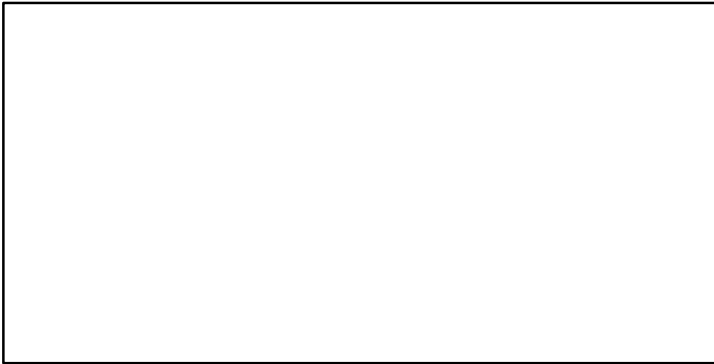
TN \*



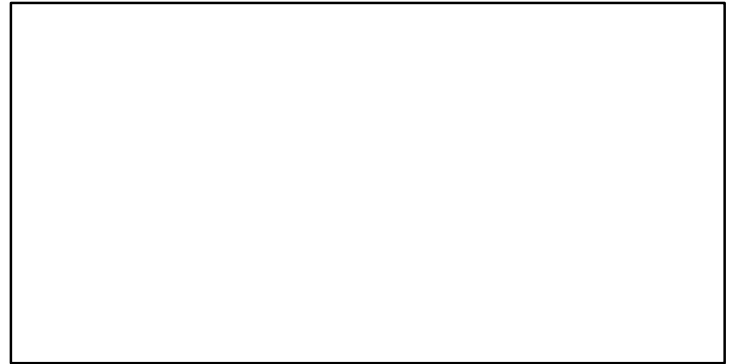
F-1/yr (1950–2011–SISIMP2016)



ER\*

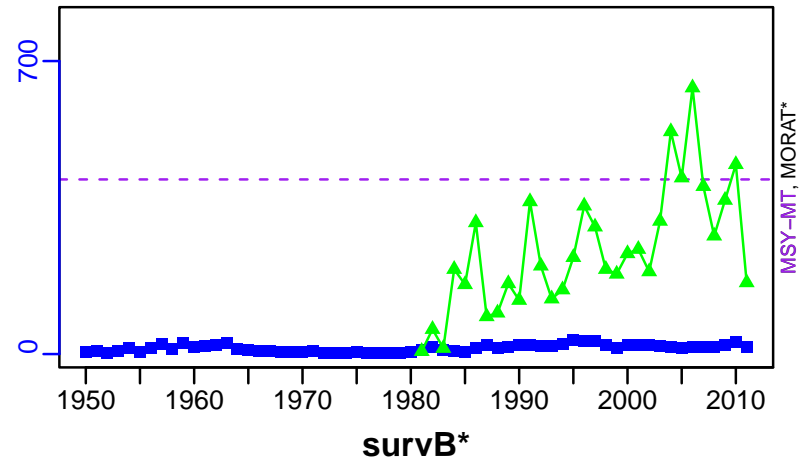


Recruits\*

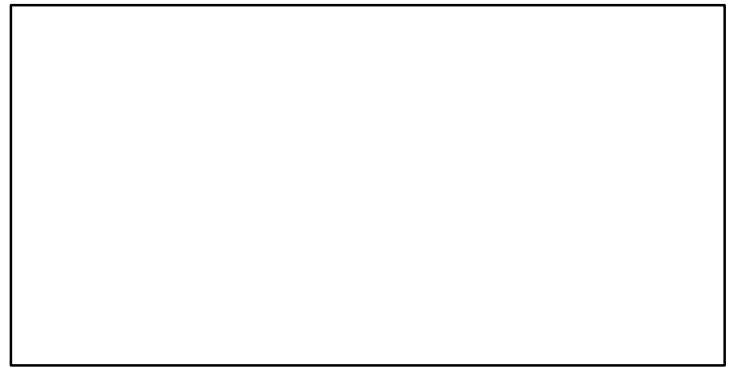


# Cobia Southern Atlantic coast [COBSATLC]

TL-MT, TC\*, RecC-MT (1950-2011-SISIMP2016)



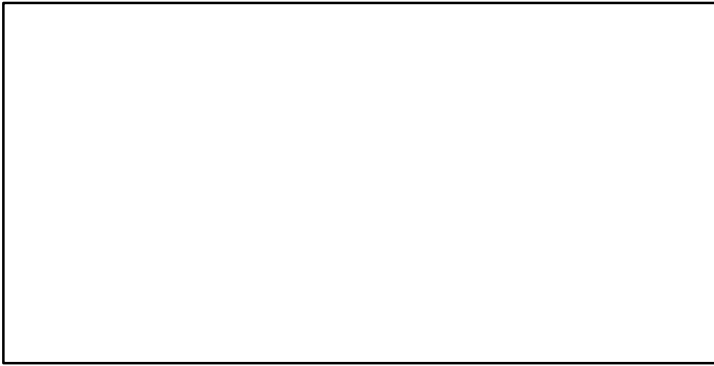
TAC\*, Cpair\*, Cadv\*



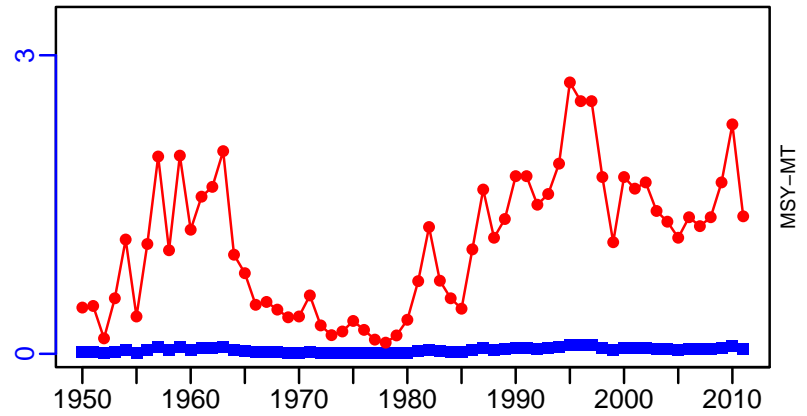
CPUE\*



EFFORT\*



TL-MT/MSY-MT, CdivMEANC-ratio, (1950-2011-SISIMP2016)



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



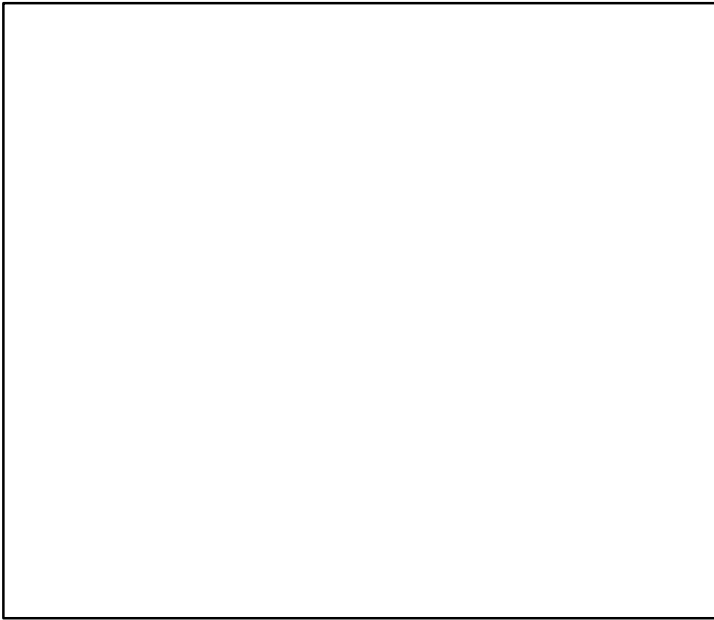
**Common pandora Malta Island and South of Sicily (GSA 15, 16)**  
**[CPANDMEDGSA15-16]**

Metadata	
<b>Scientific Name</b>	Pagellus erythrinus
<b>Current Assess ID</b>	STECF-CPANDMEDGSA15-16-2006-2011-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

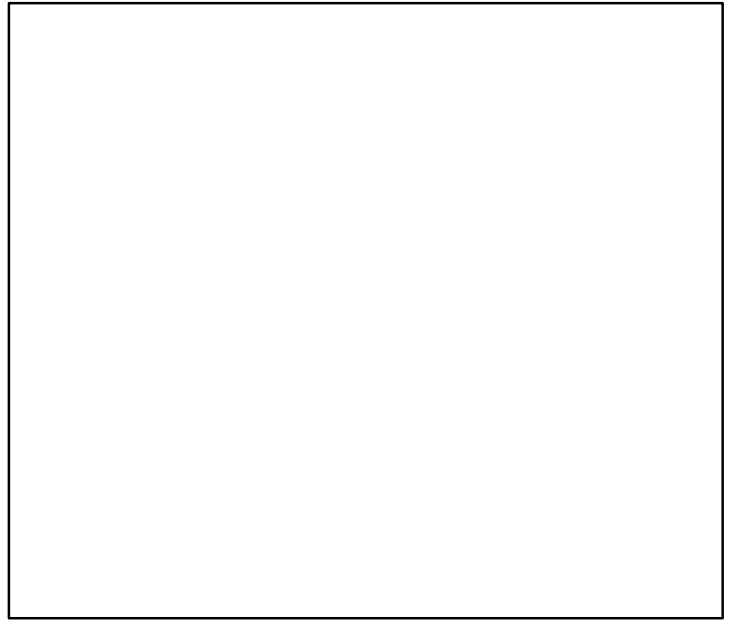
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.3
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	549	-	2+
TN	-	-	-	-	-
R	R-E00	2011	4,850,000	-	-
F	F-1/yr	2011	0.72	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	273		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	2.4		
ER/ERmgt	-	-	-		

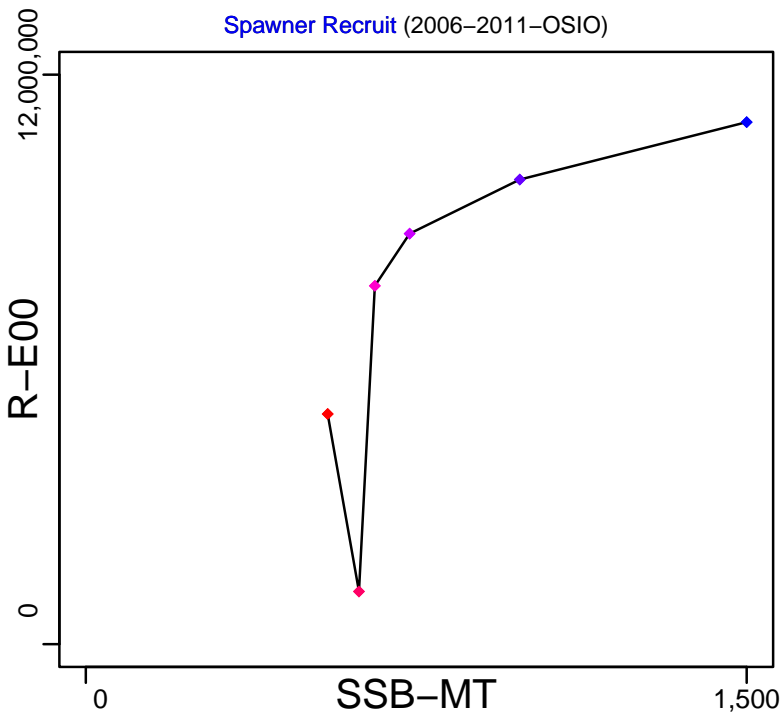
**Kobe MSY\***



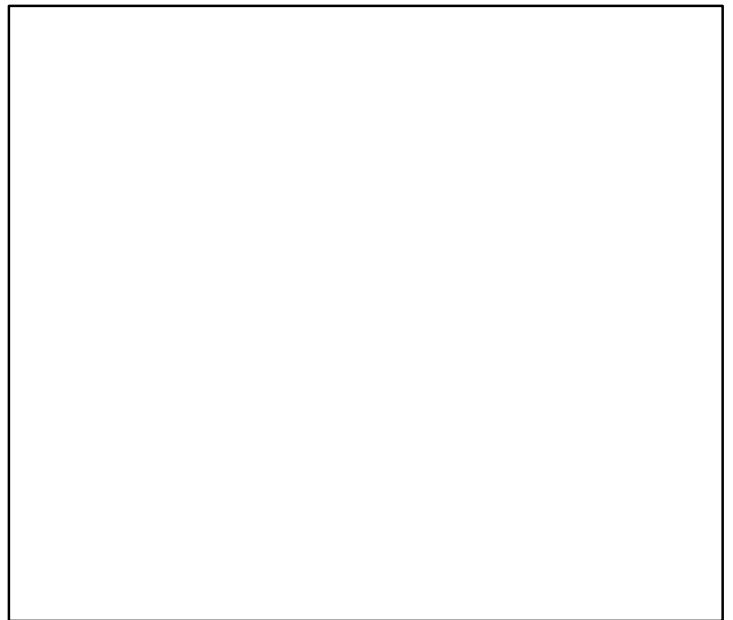
**Kobe MGT\***



**Spawner Recruit** (2006–2011–OSIO)



**Production\***



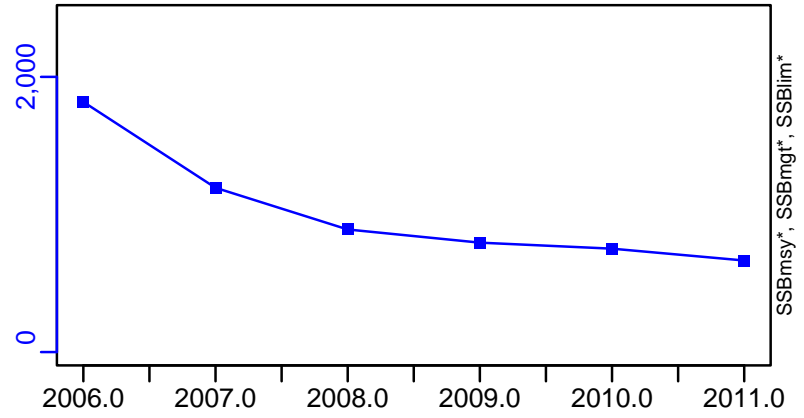
◆ Start Year ◆ End Year \* No Data

Common pandora Malta Island and South of Sicily (GSA 15, 16) [CPANDMEDGSA15-16]

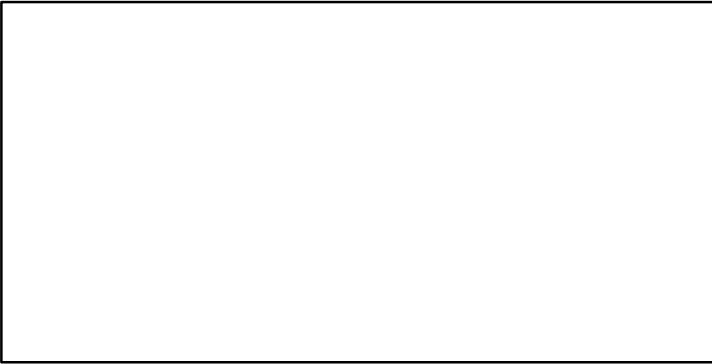
TB\*



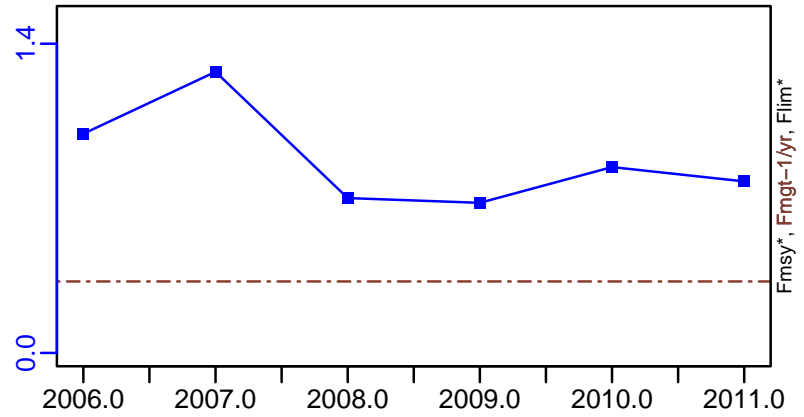
SSB-MT (2006-2011-OSIO)



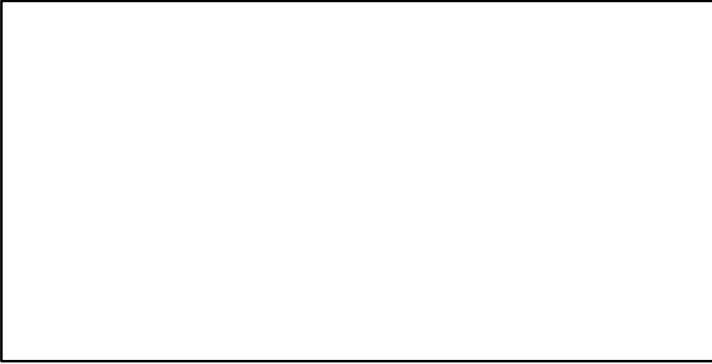
TN \*



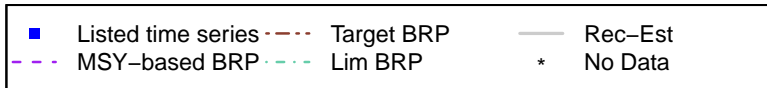
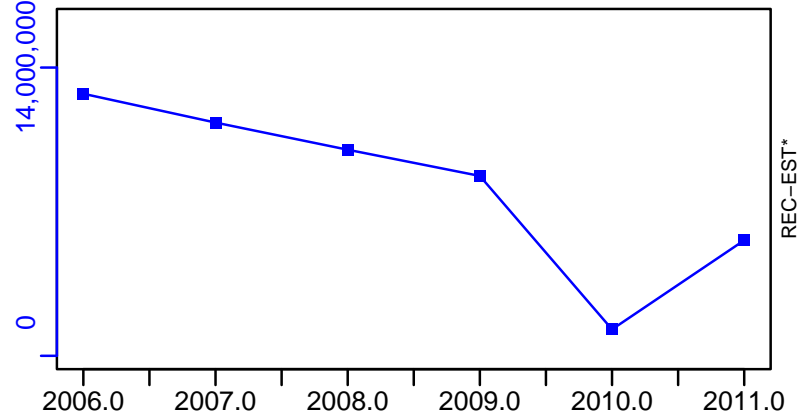
F-1/yr (2006-2011-OSIO)



ER\*



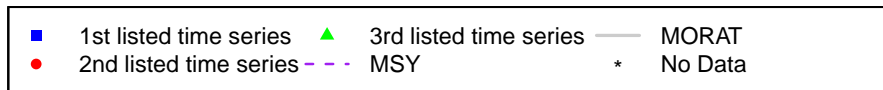
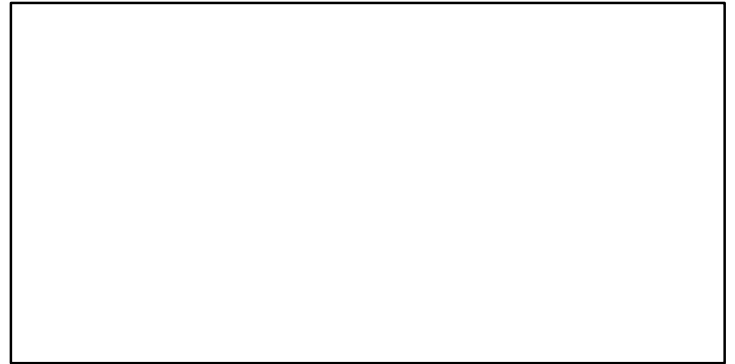
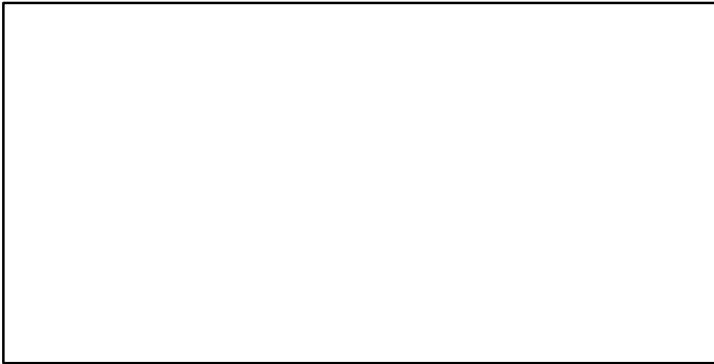
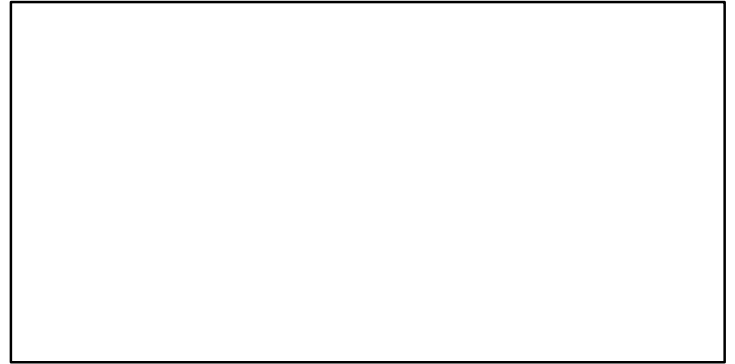
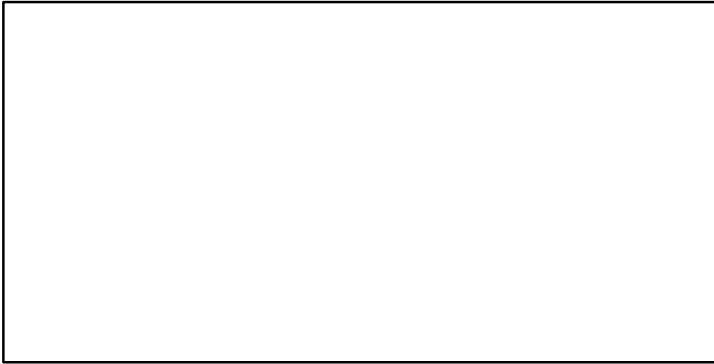
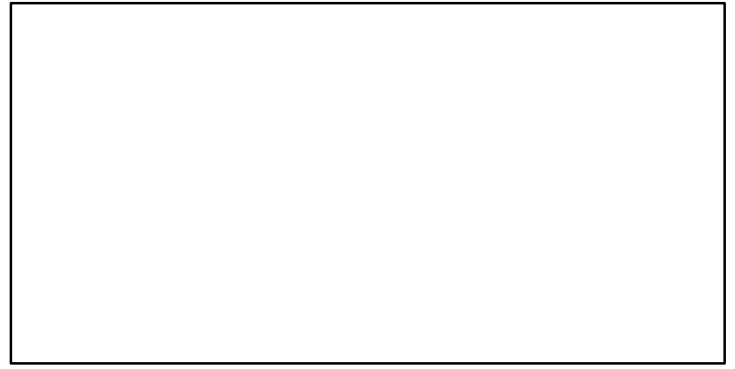
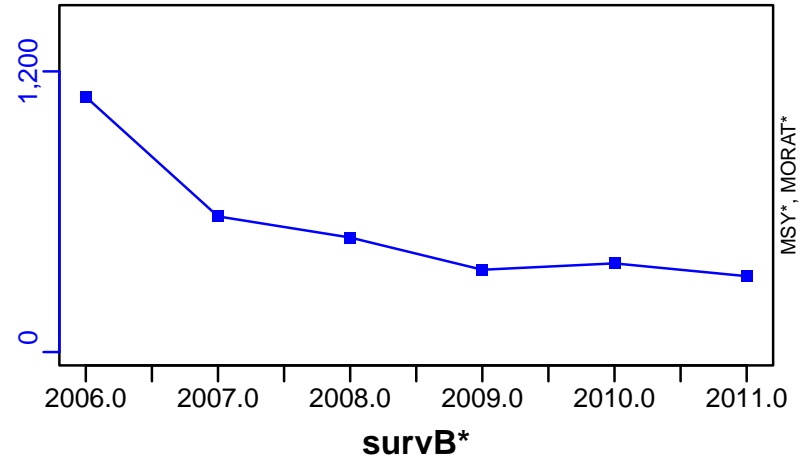
R-E00 (2006-2011-OSIO)



Common pandora Malta Island and South of Sicily (GSA 15, 16) [CPANDMEDGSA15-16]

TC-MT, TL\*, RecC\* (2006-2011-OSIO)

TAC\*, Cpair\*, Cadv\*



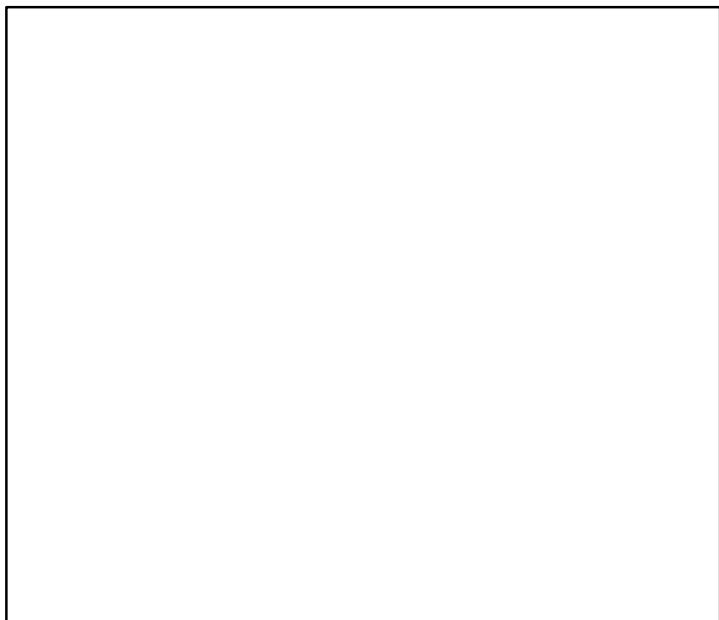
## Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

Metadata	
<b>Scientific Name</b>	Pagellus erythrinus
<b>Current Assess ID</b>	STECF-CPANDMEDGSA9-2006-2010-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2010

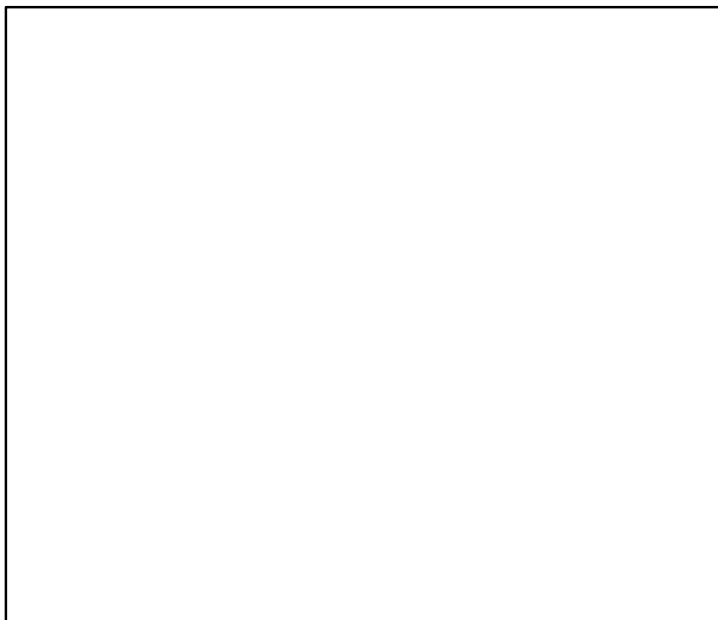
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2010	0.48
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	171		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

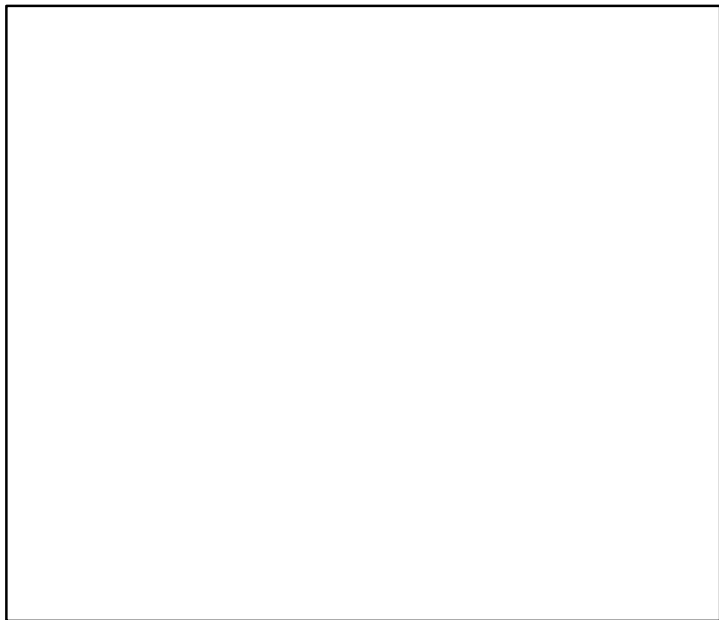
**Kobe MSY\***



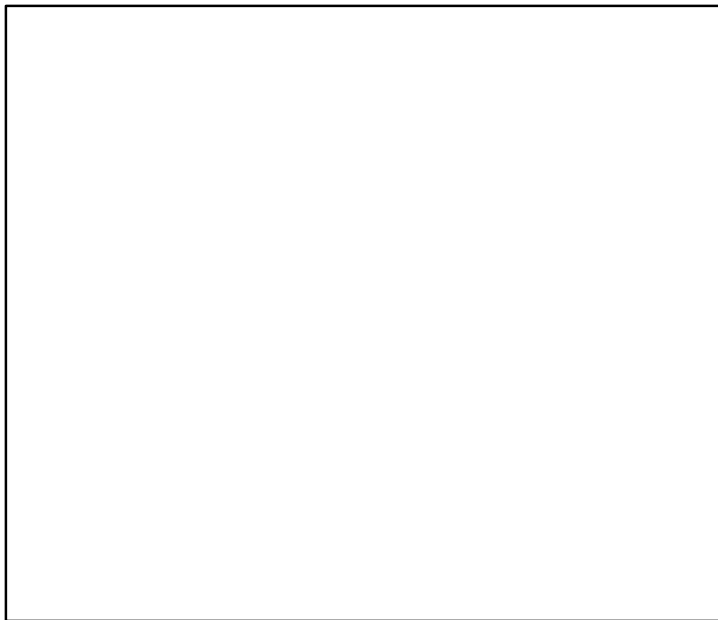
**Kobe MGT\***



**Spawner Recruit\***



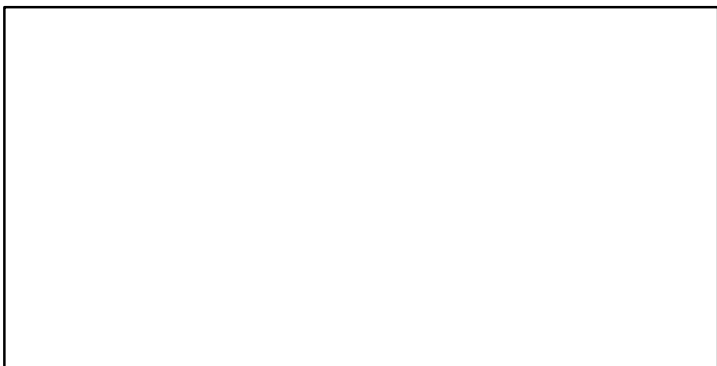
**Production\***



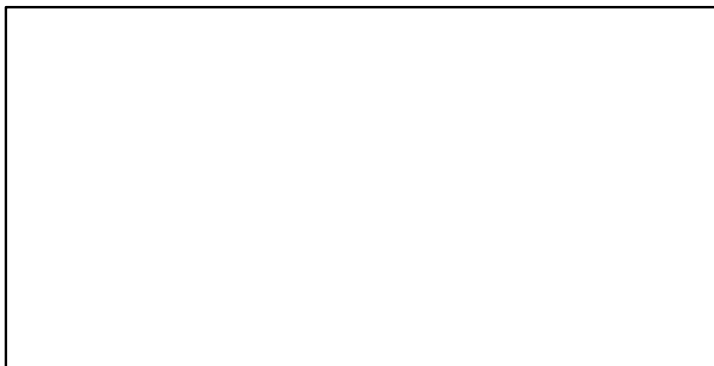
◆ Start Year ◆ End Year \* No Data

Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

**TB\***



**SSB\***



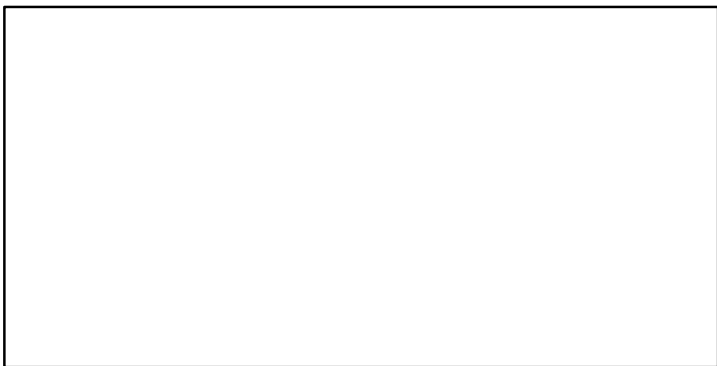
**TN \***



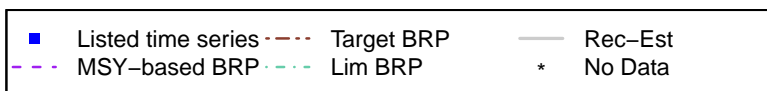
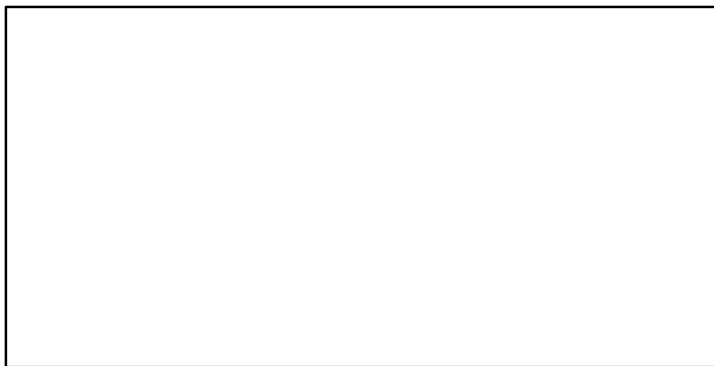
**F\***



**ER\***



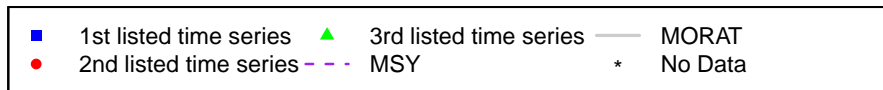
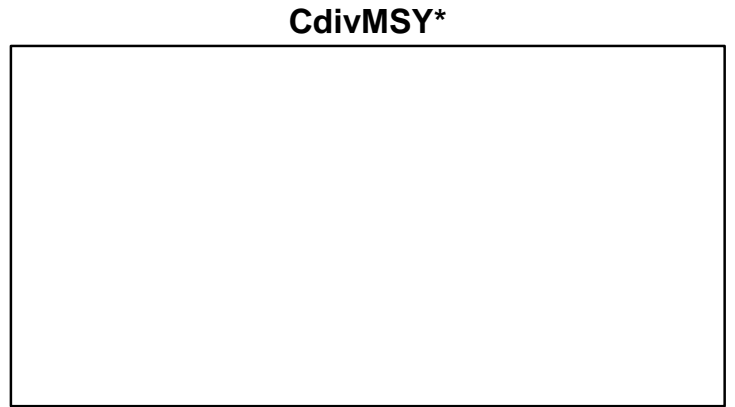
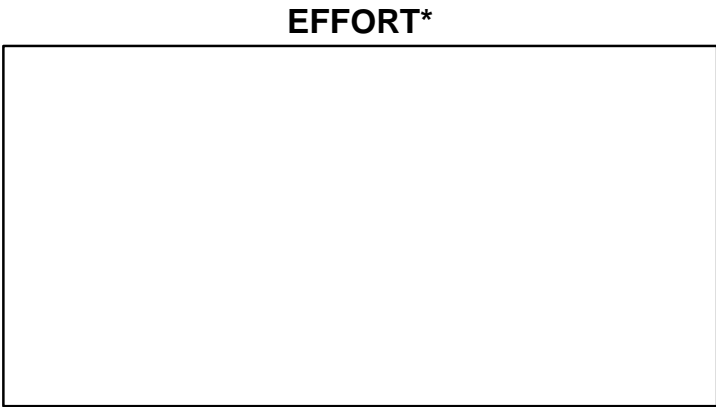
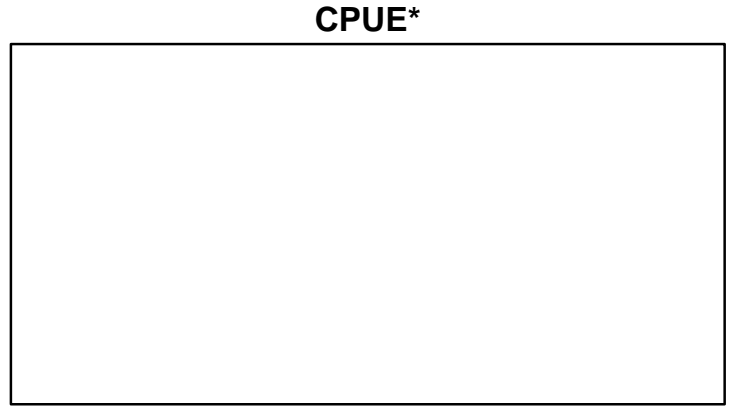
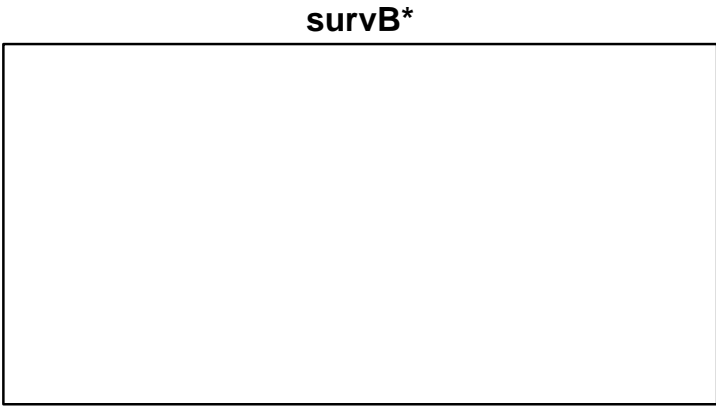
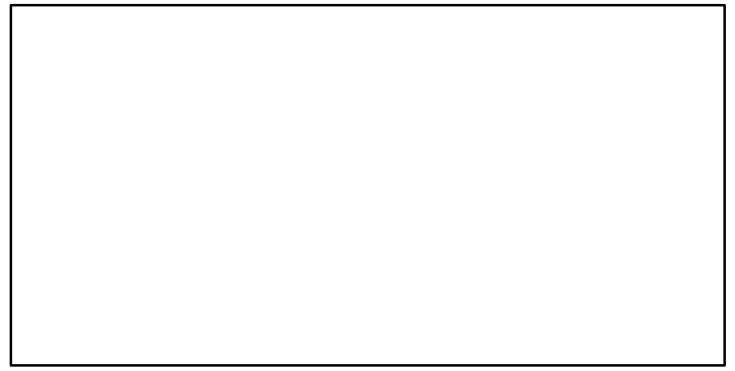
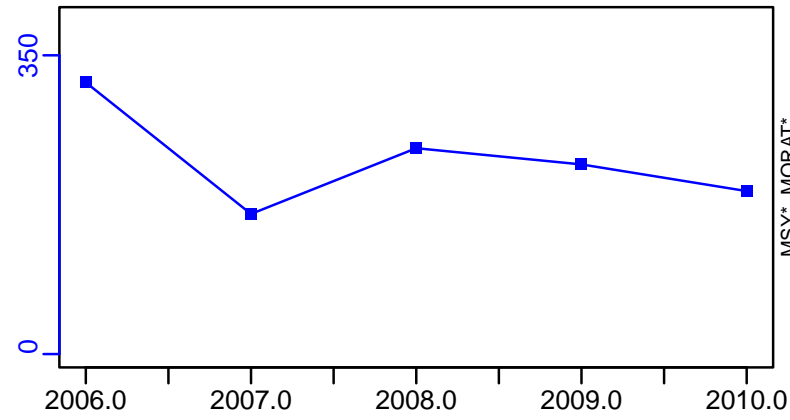
**Recruits\***



Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

TC-MT, TL\*, RecC\* (2006–2010–OSIO)

TAC\*, Cpair\*, Cadv\*





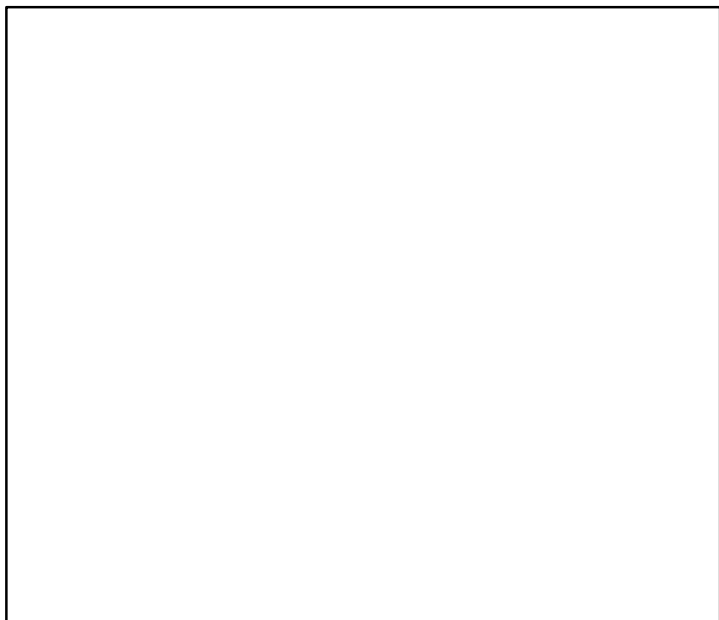
## Croaker Central West Africa Cote Divoire-Benin [CROAKSPPCWACIV-BEN]

Metadata	
<b>Scientific Name</b>	Pseudotolithus spp
<b>Current Assess ID</b>	FAO-DR-CROAKSPPCWACIV-BEN-1990-2006-CHING
<b>Area</b>	Central West Africa Cote Divoire-Benin
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2006

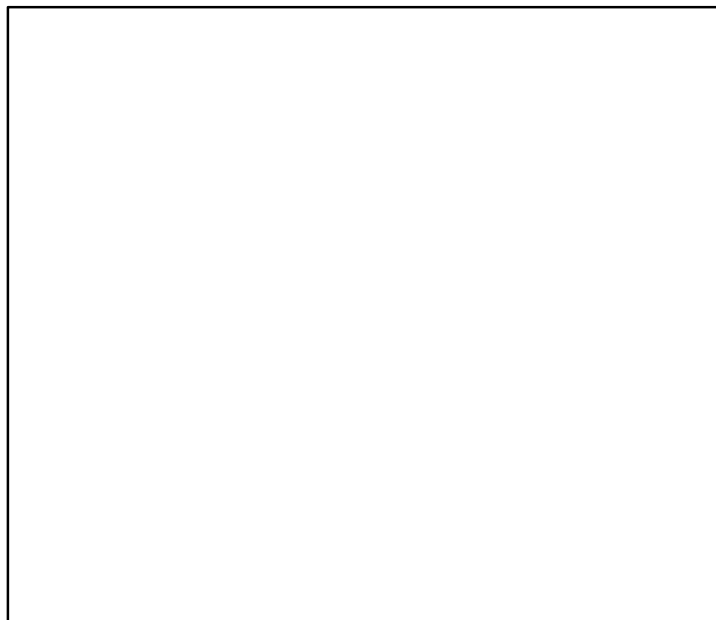
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2006	2790		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***

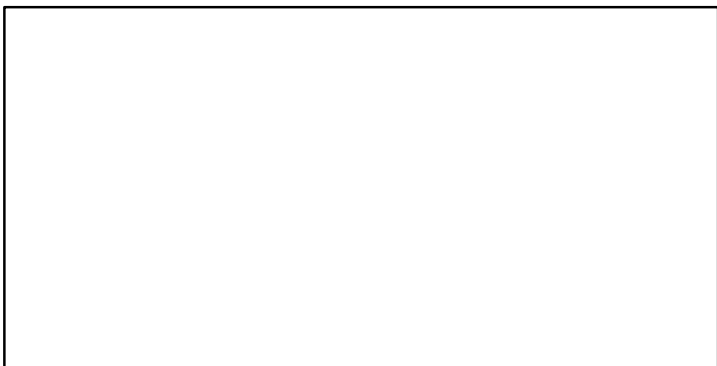


**Production\***

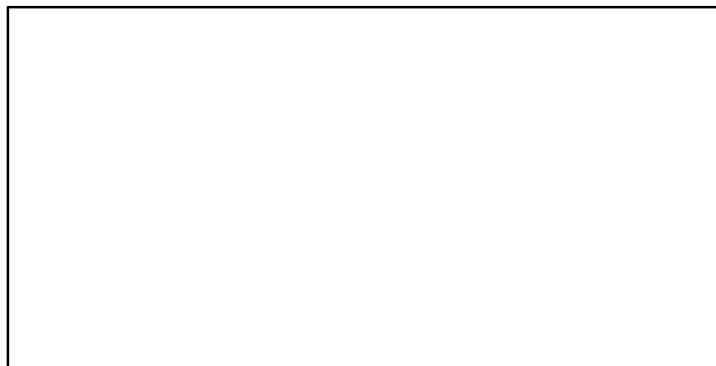


◆ Start Year ◆ End Year \* No Data

**TB\***



**SSB\***



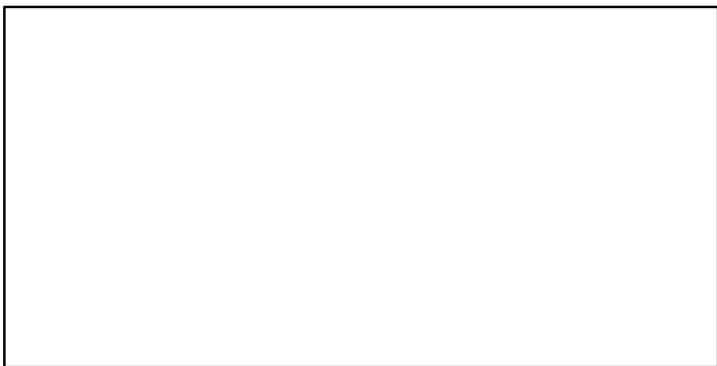
**TN \***



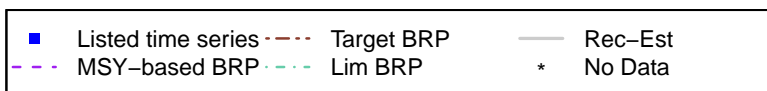
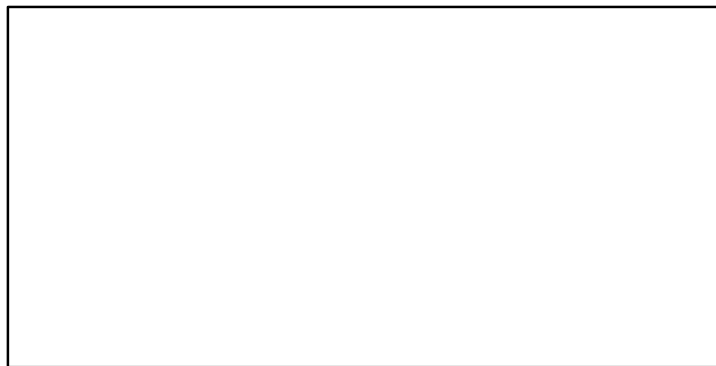
**F\***



**ER\***

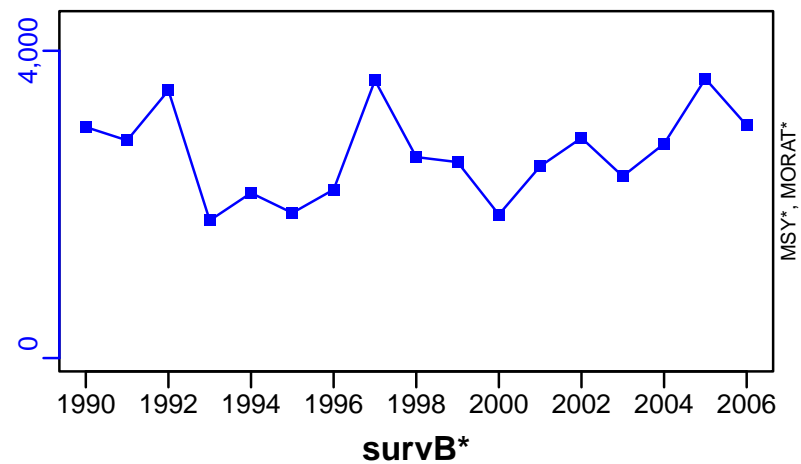


**Recruits\***

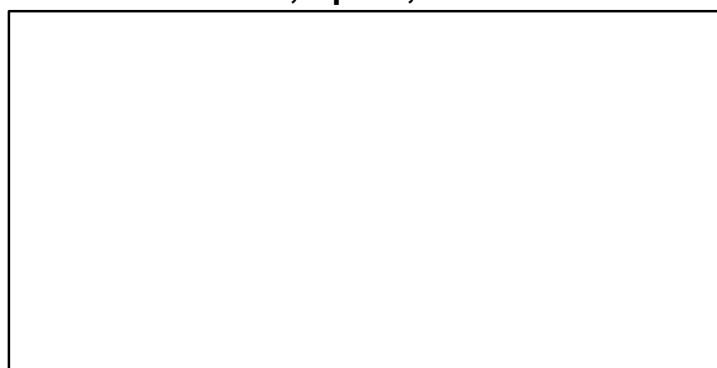


# Croaker Central West Africa Cote Divoire–Benin [CROAKSPPCWACIV–BEN]

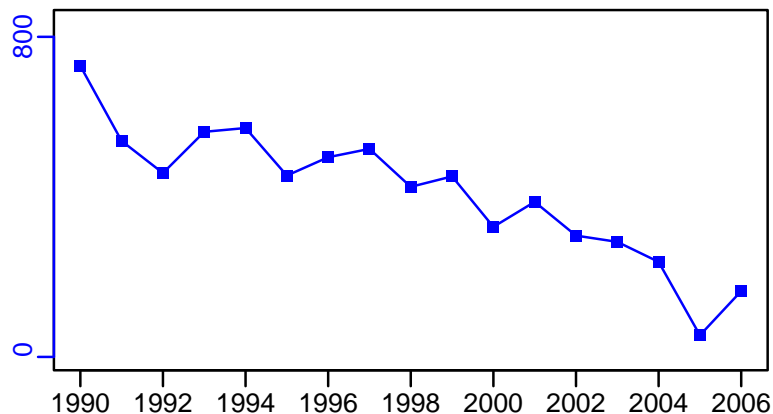
TC–MT, TL\*, RecC\* (1990–2006–CHING)



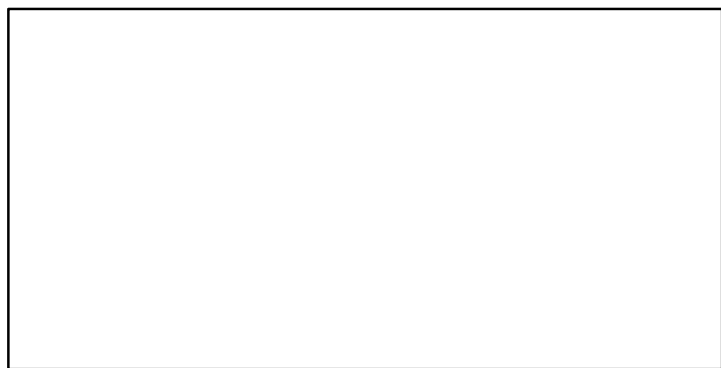
TAC\*, Cpair\*, Cadv\*



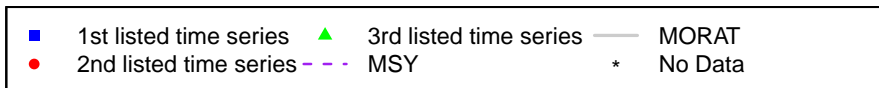
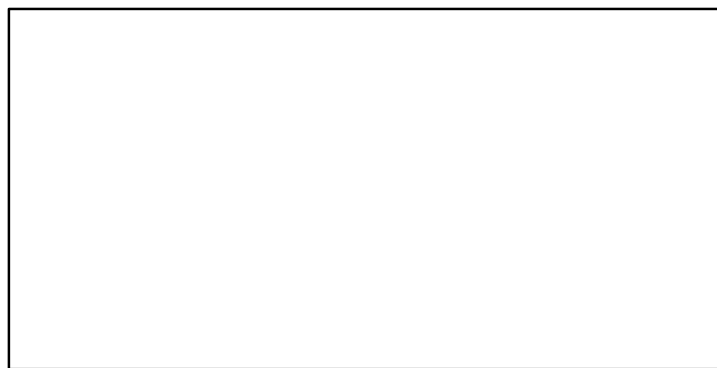
CPUE–kg/day (1990–2006–CHING)



EFFORT\*



CdivMSY\*



## Croaker Central West Africa Gabon-Angola [CROAKSPPCWAGAB-AGO]

Metadata	
<b>Scientific Name</b>	Pseudotolithus spp
<b>Current Assess ID</b>	FAO-DR-CROAKSPPCWAGAB-AGO-1990-2007-CHING
<b>Area</b>	Central West Africa Gabon-Angola
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	351	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	38,700		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

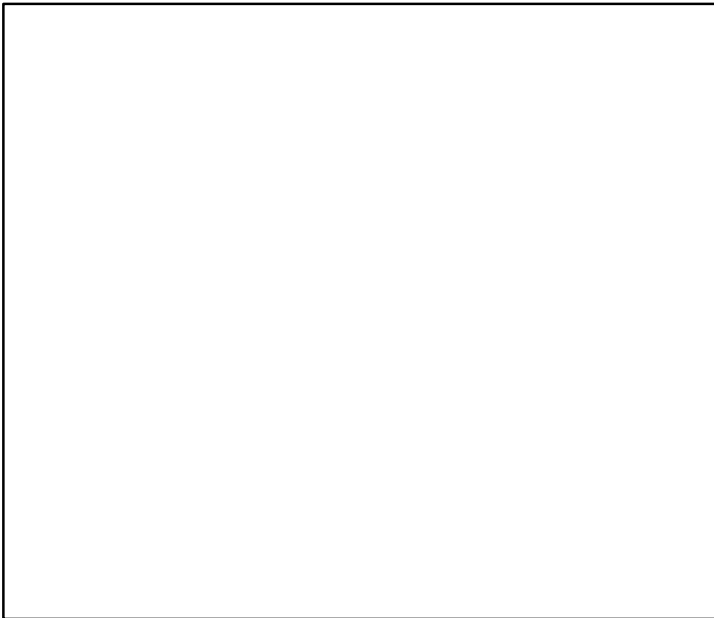
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***

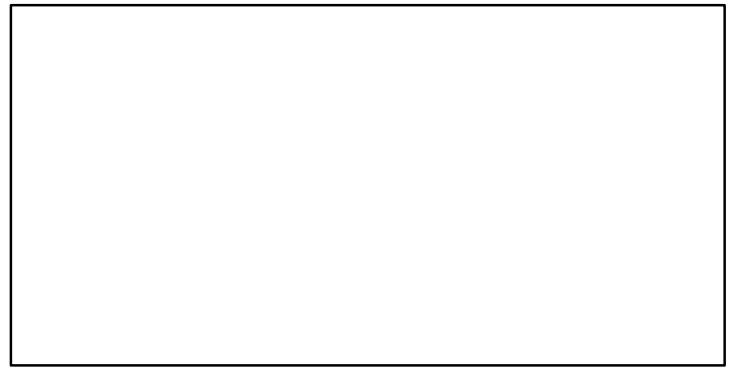
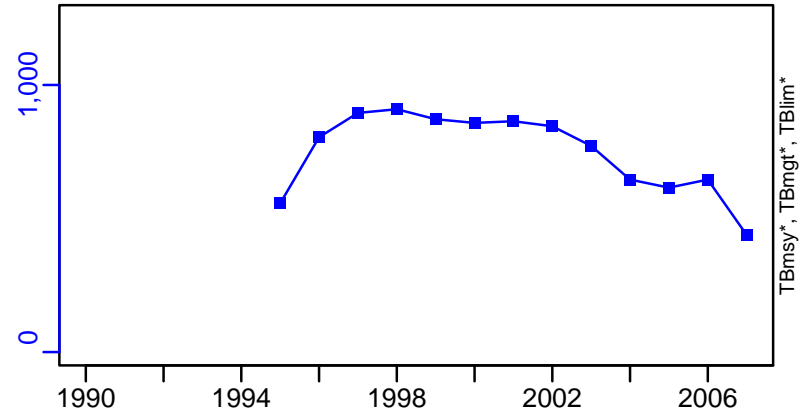


◆ Start Year ◆ End Year \* No Data

# Croaker Central West Africa Gabon–Angola [CROAKSPPCWAGAB–AGO]

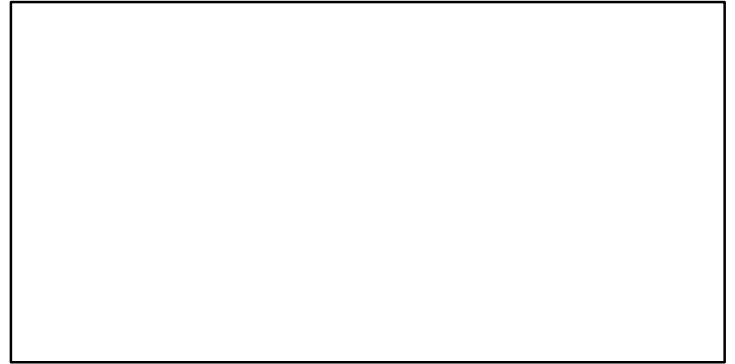
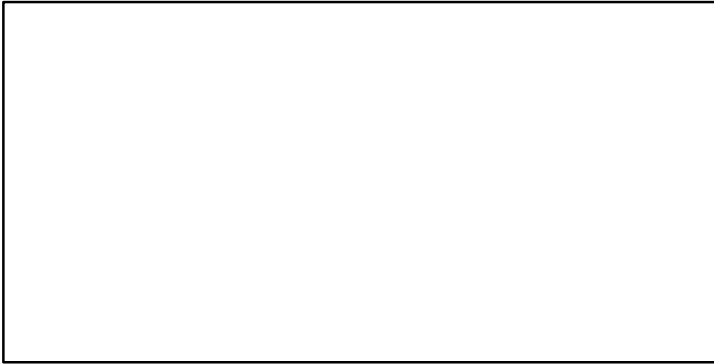
TB-index (1990–2007–CHING)

SSB\*



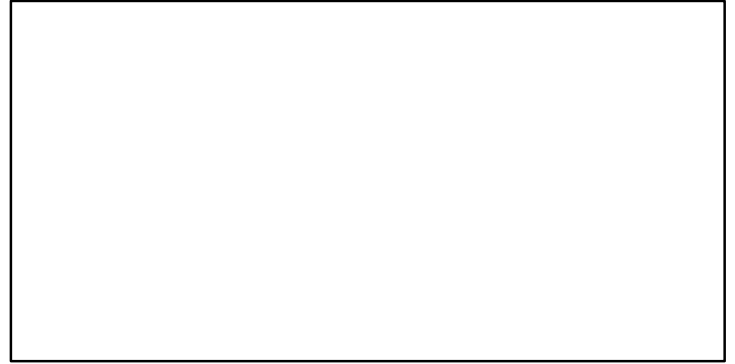
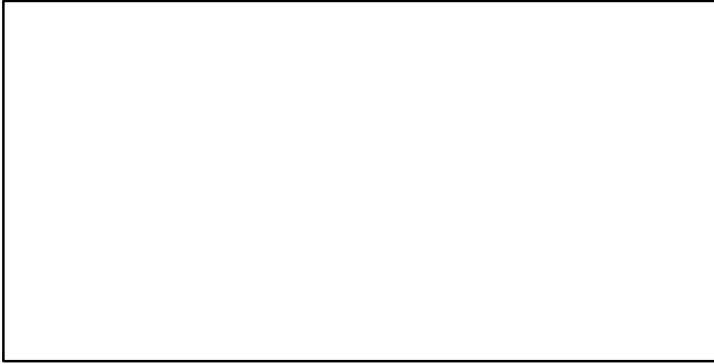
TN \*

F\*



ER\*

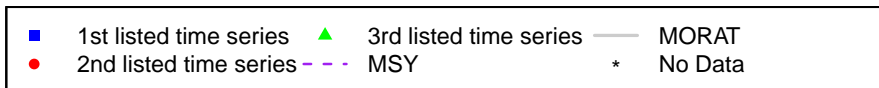
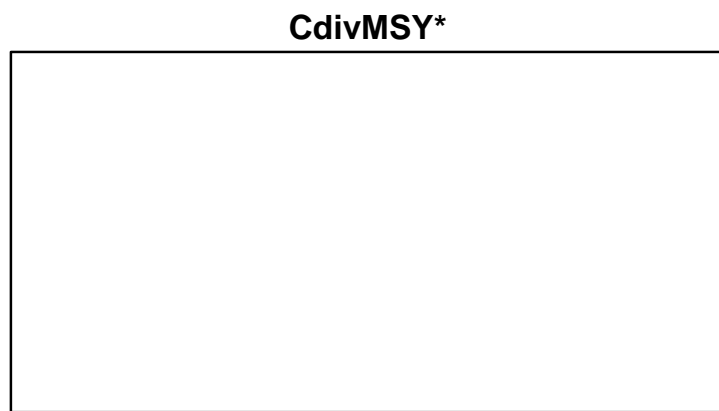
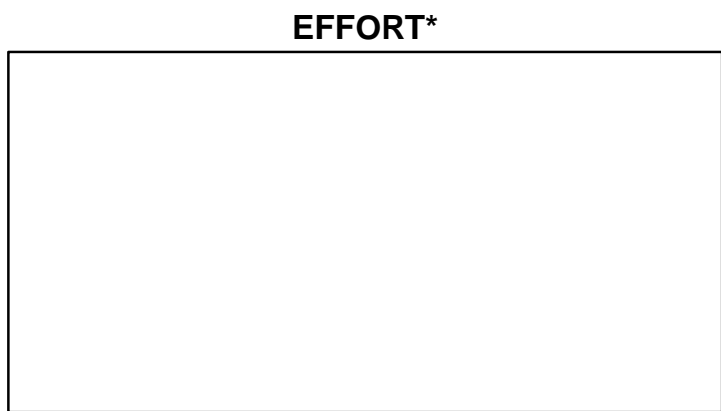
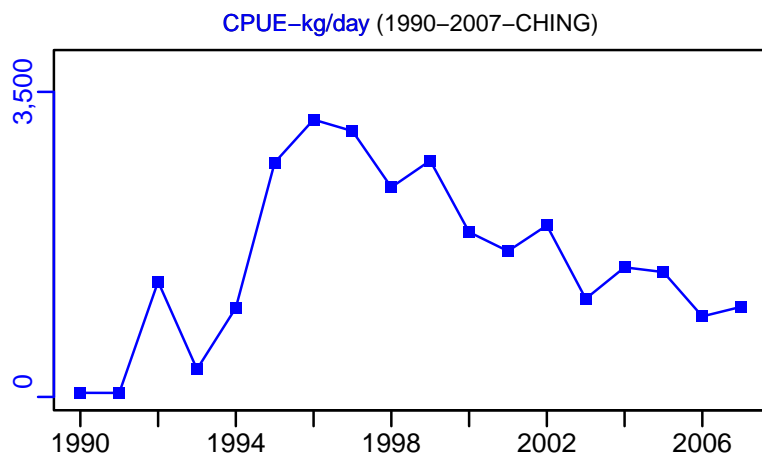
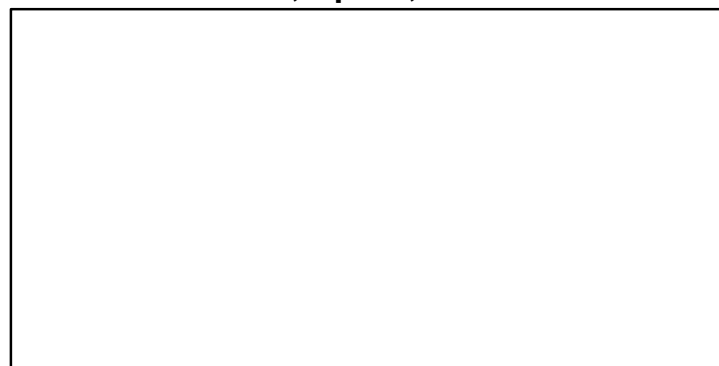
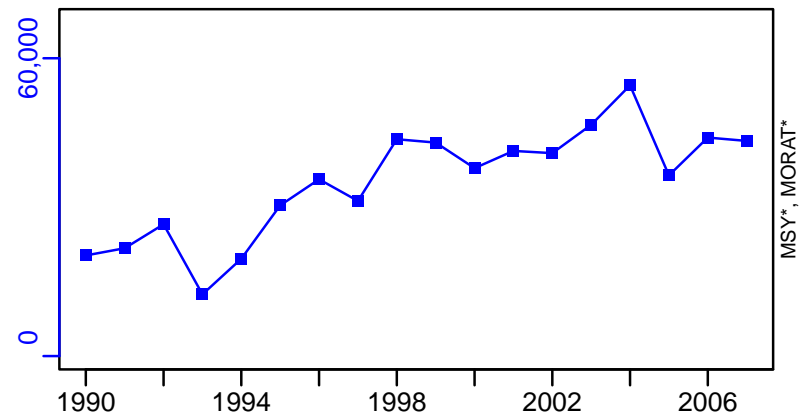
Recruits\*



# Croaker Central West Africa Gabon–Angola [CROAKSPPCWAGAB–AGO]

TC–MT, TL\*, RecC\* (1990–2007–CHING)

TAC\*, Cpair\*, Cadv\*





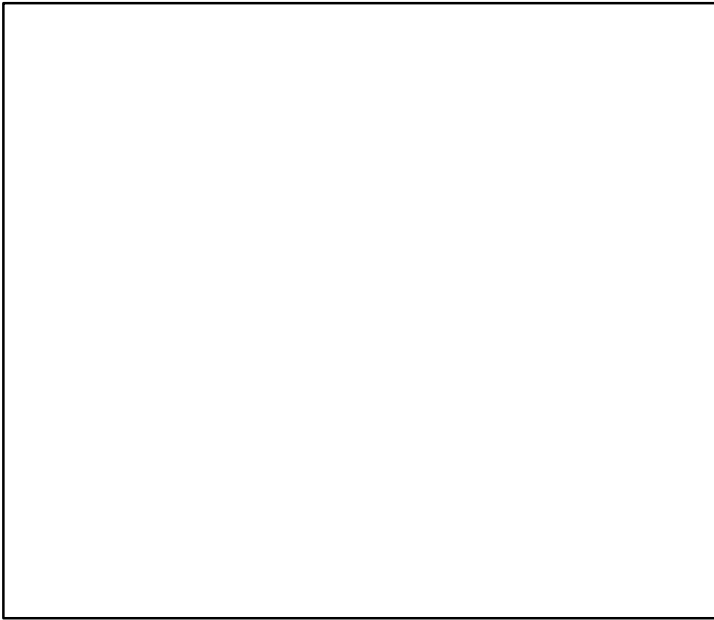
## Croaker Central West Africa Guinea-Liberia [CROAKSPPCWAGIN-LBR]

Metadata	
<b>Scientific Name</b>	Pseudotolithus spp
<b>Current Assess ID</b>	FAO-DR-CROAKSPPCWAGIN-LBR-1994-2007-CHING
<b>Area</b>	Central West Africa Guinea-Liberia
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

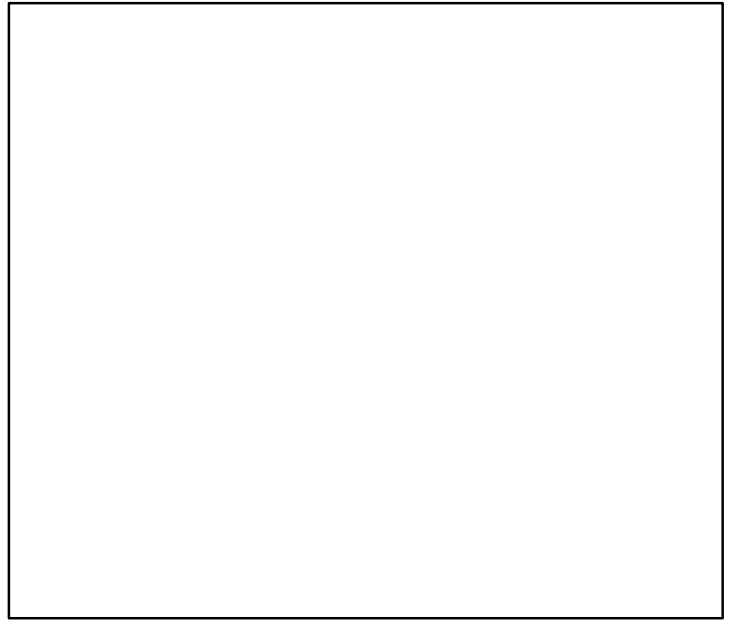
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	40	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	4730		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

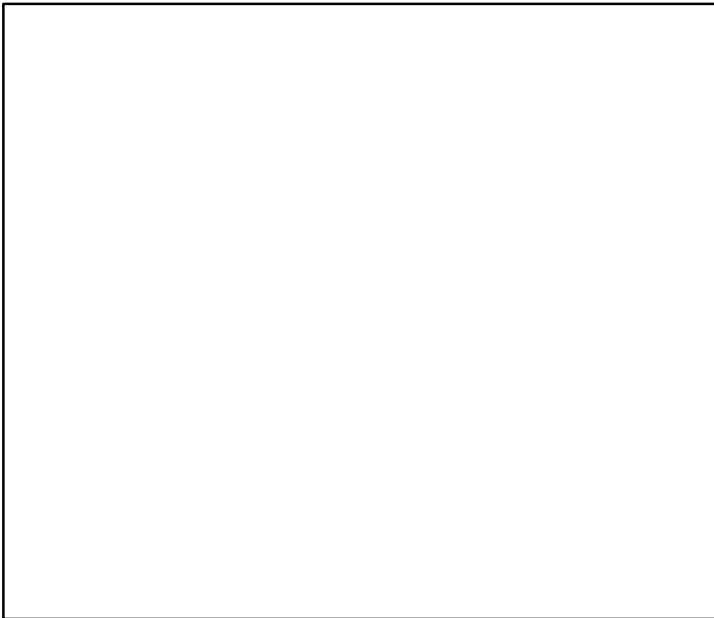
**Kobe MSY\***



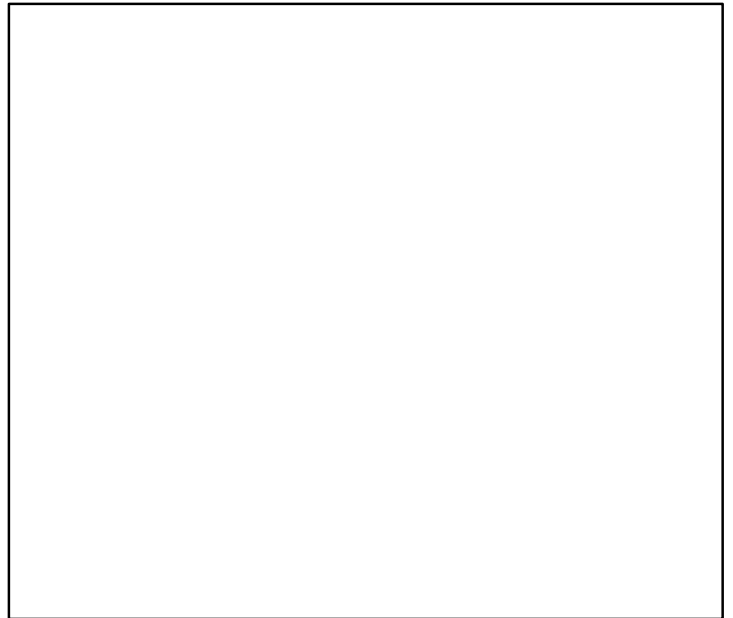
**Kobe MGT\***



**Spawner Recruit\***



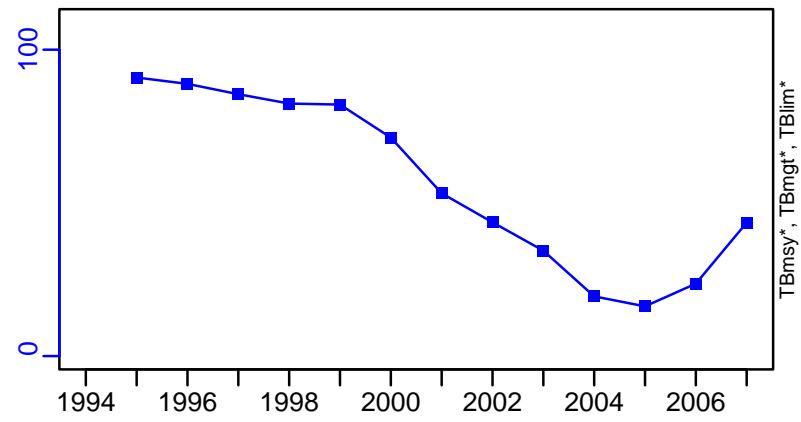
**Production\***



◆ Start Year ◆ End Year \* No Data

# Croaker Central West Africa Guinea–Liberia [CROAKSPPCWAGIN–LBR]

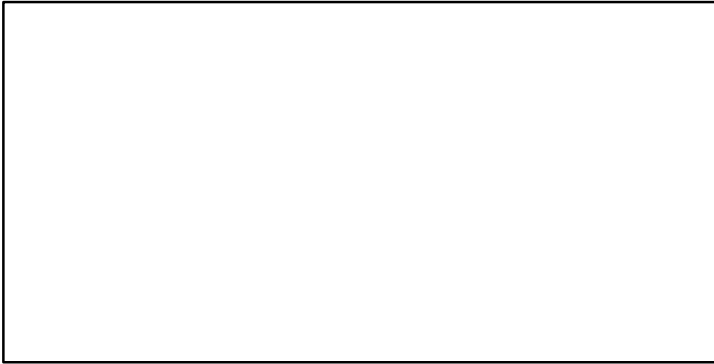
TB–index (1994–2007–CHING)



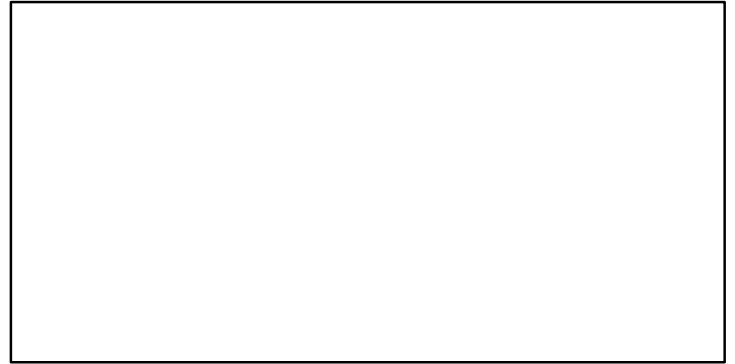
SSB\*



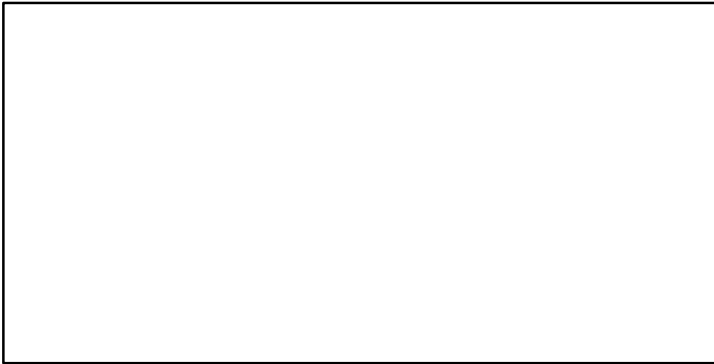
TN \*



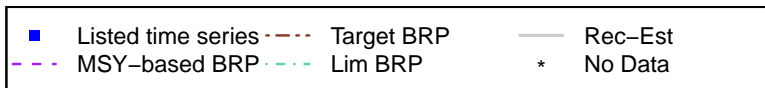
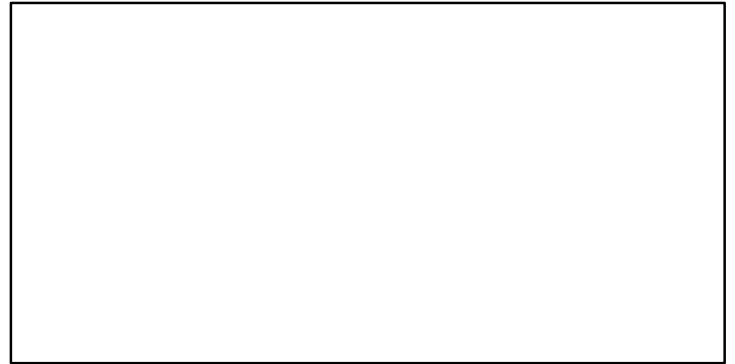
F\*



ER\*

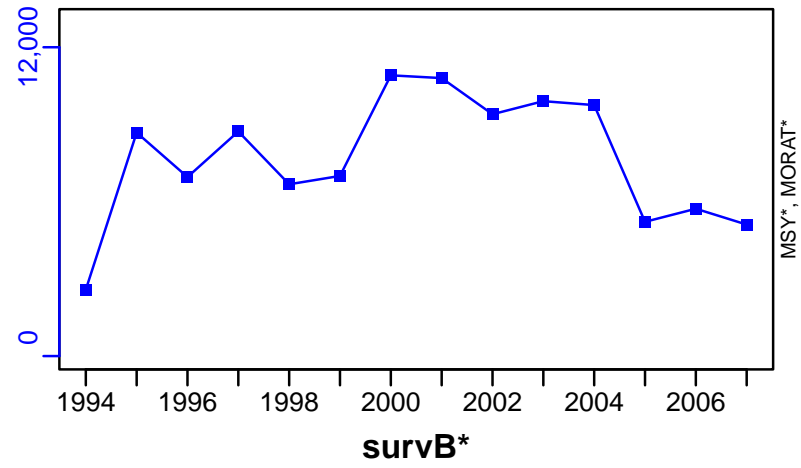


Recruits\*

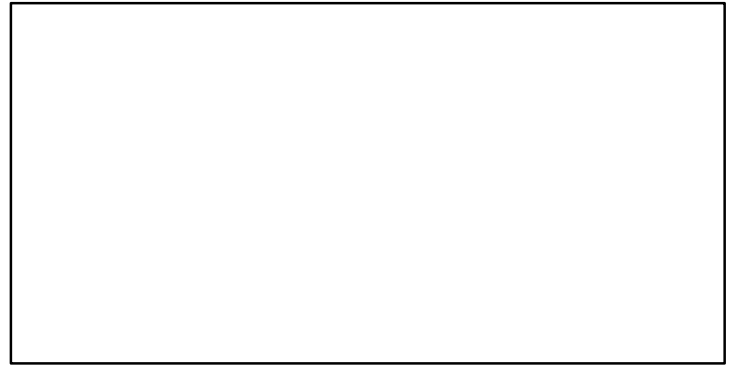


# Croaker Central West Africa Guinea–Liberia [CROAKSPPCWAGIN–LBR]

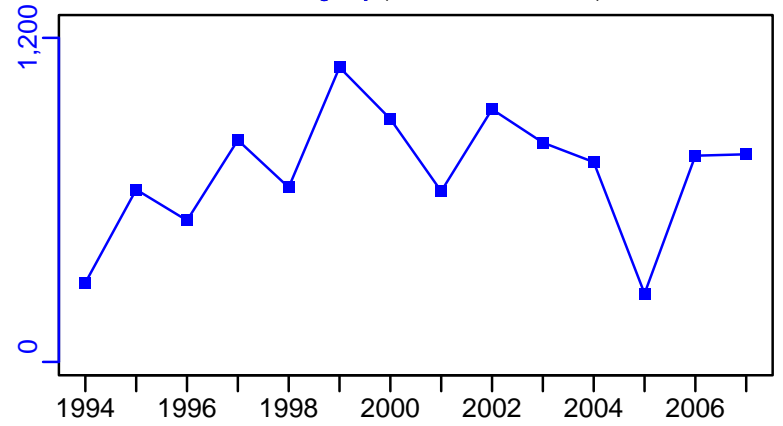
TC–MT, TL\*, RecC\* (1994–2007–CHING)



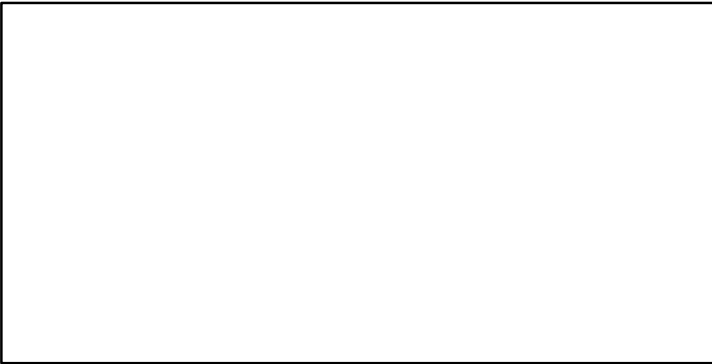
TAC\*, Cpair\*, Cadv\*



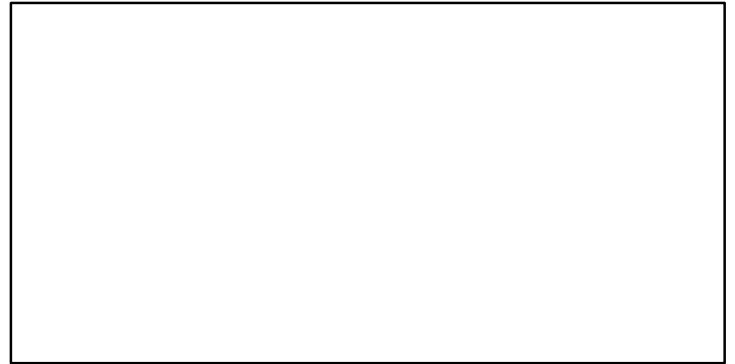
CPUE–kg/day (1994–2007–CHING)



EFFORT\*



CdivMSY\*



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

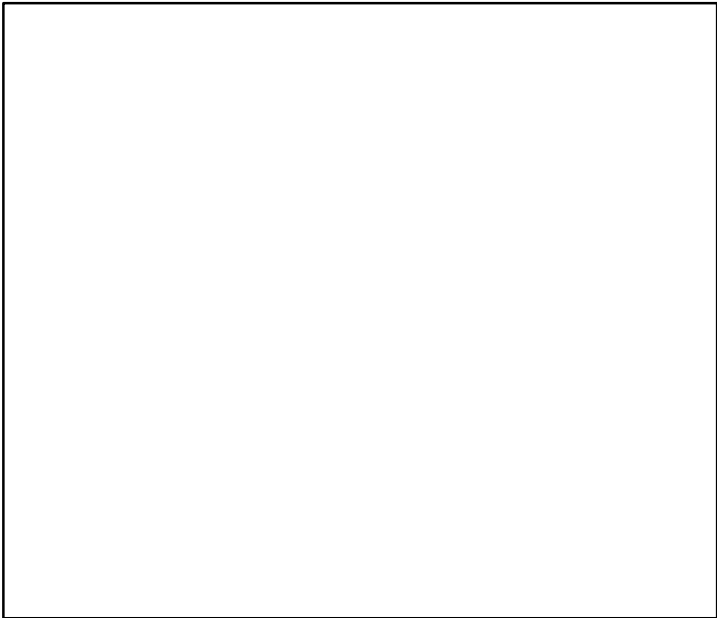
## Croaker North West Africa Senegal\_The Gambia [CROAKSPPNWASEN\_GMB]

Metadata	
<b>Scientific Name</b>	Pseudotolithus spp
<b>Current Assess ID</b>	FAO-DR-CROAKSPPNWASEN_GMB-1990-2016-ASHBROOK
<b>Area</b>	North West Africa Senegal_The Gambia
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2016

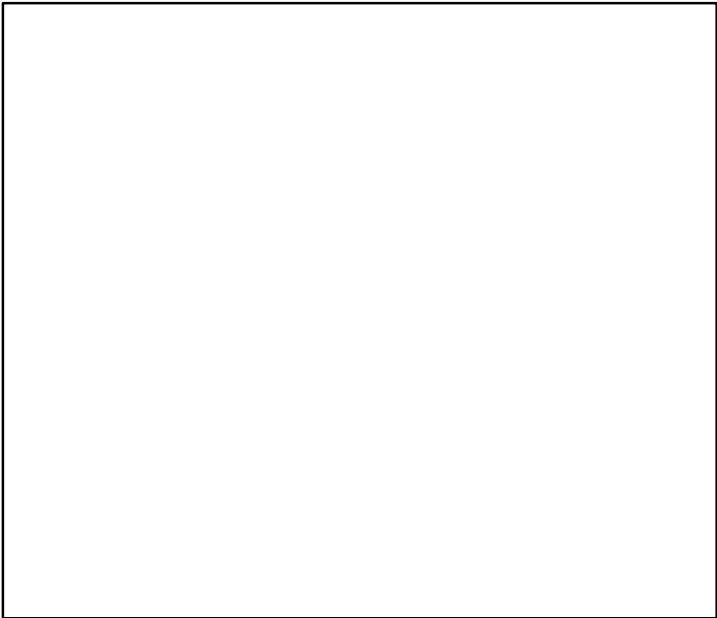
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	3147		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

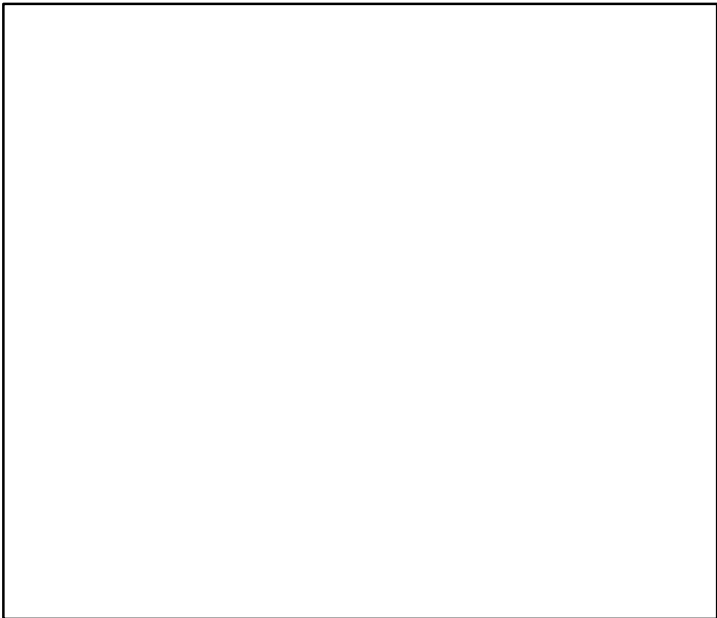
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

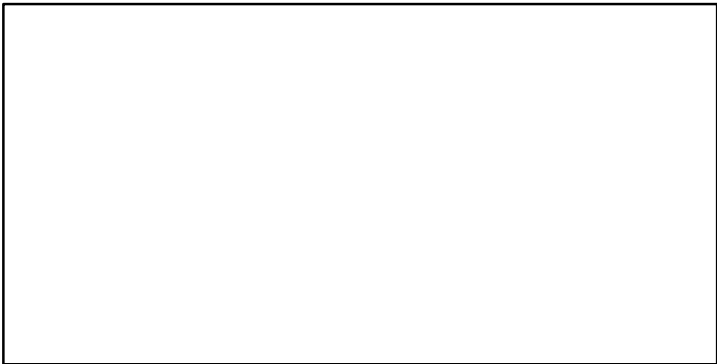
TB\*



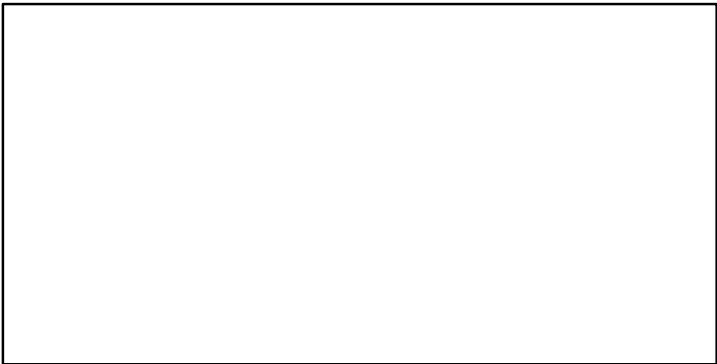
SSB\*



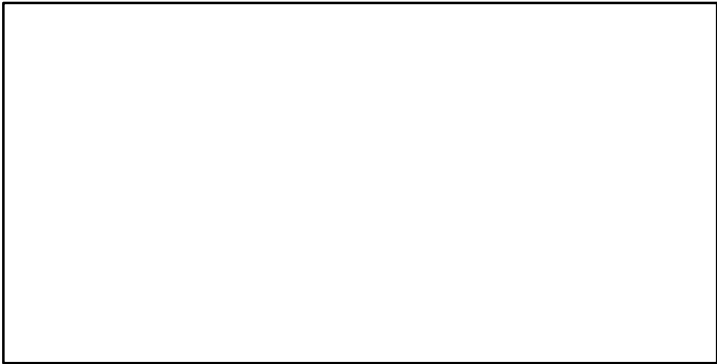
TN \*



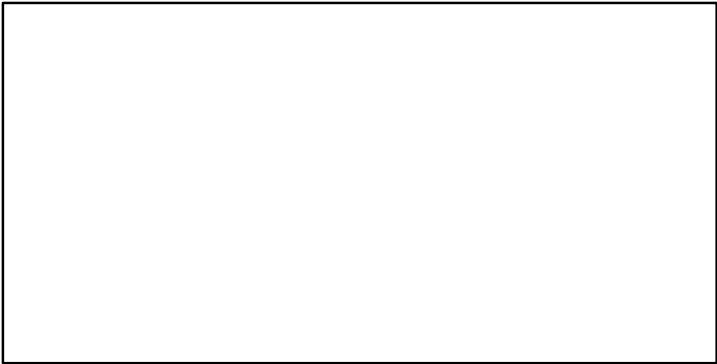
F\*



ER\*

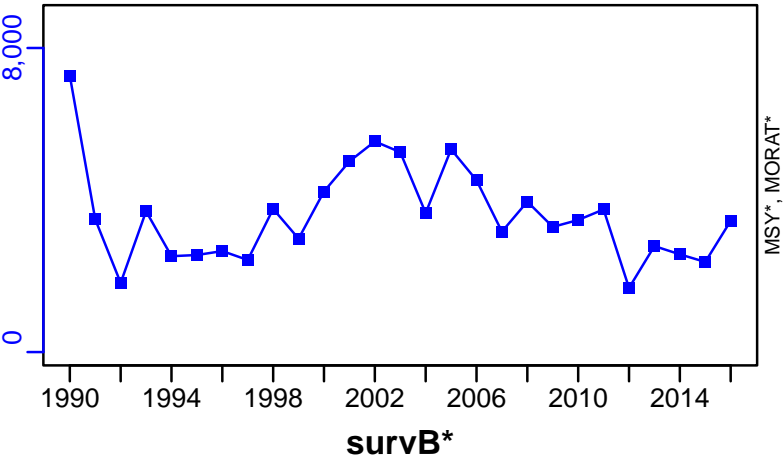


Recruits\*



Croaker North West Africa Senegal\_The Gambia [CROAKSPPNWASEN\_GMB]

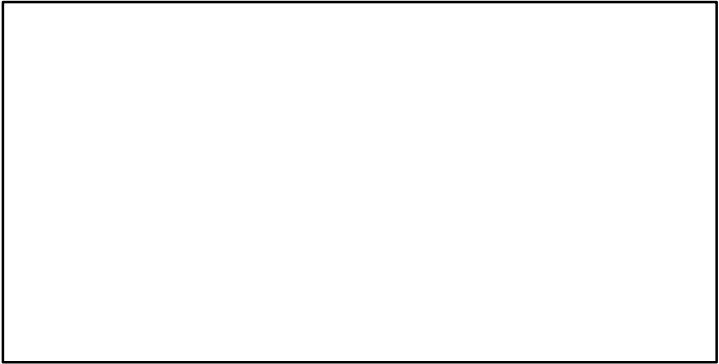
TC-MT, TL\*, RecC\* (1990-2016-ASHBROOK)



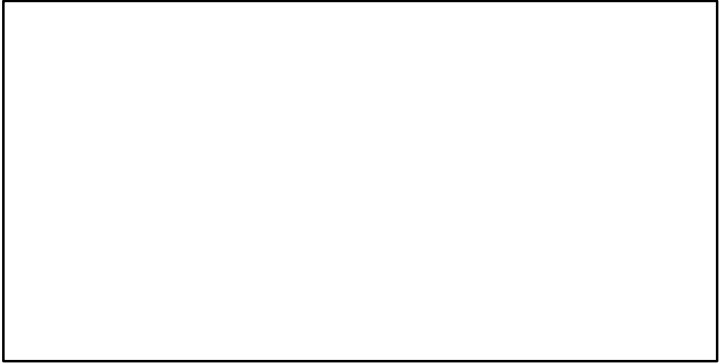
TAC\*, Cpair\*, Cadv\*



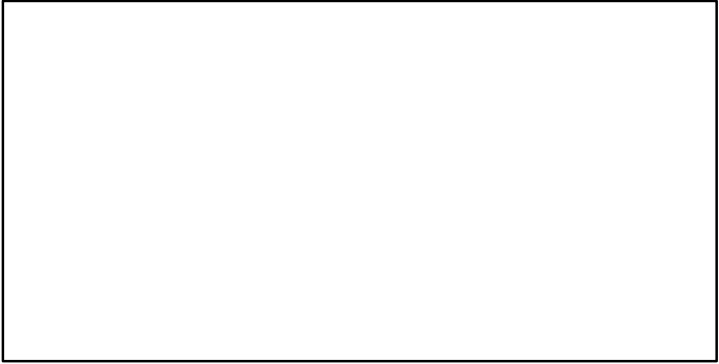
CPUE\*



EFFORT\*



CdivMSY\*



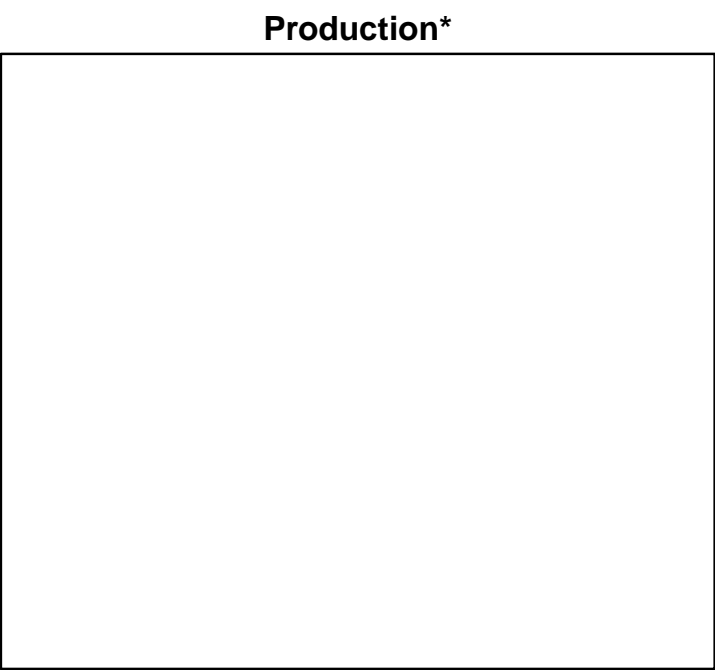
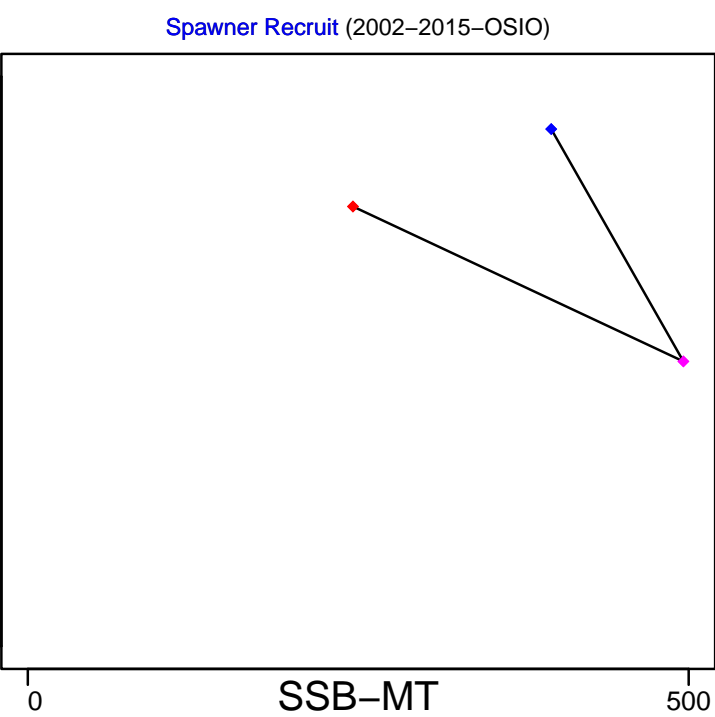
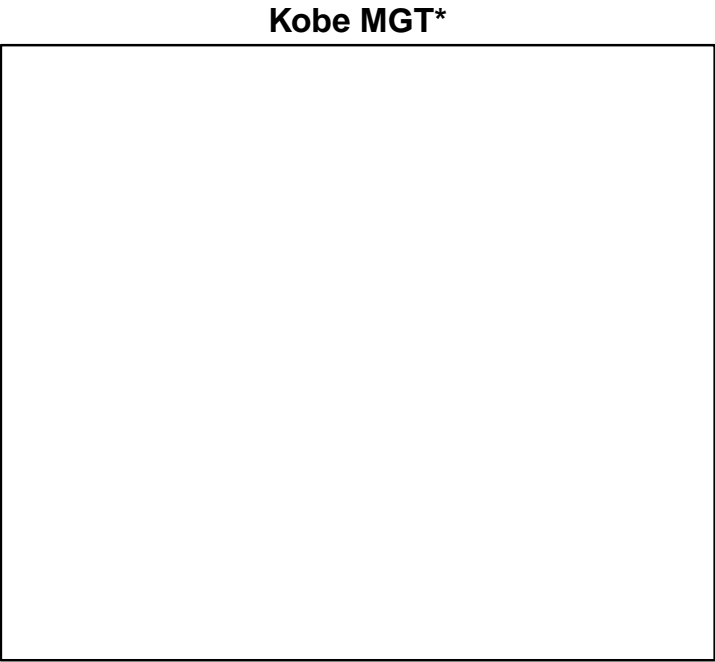
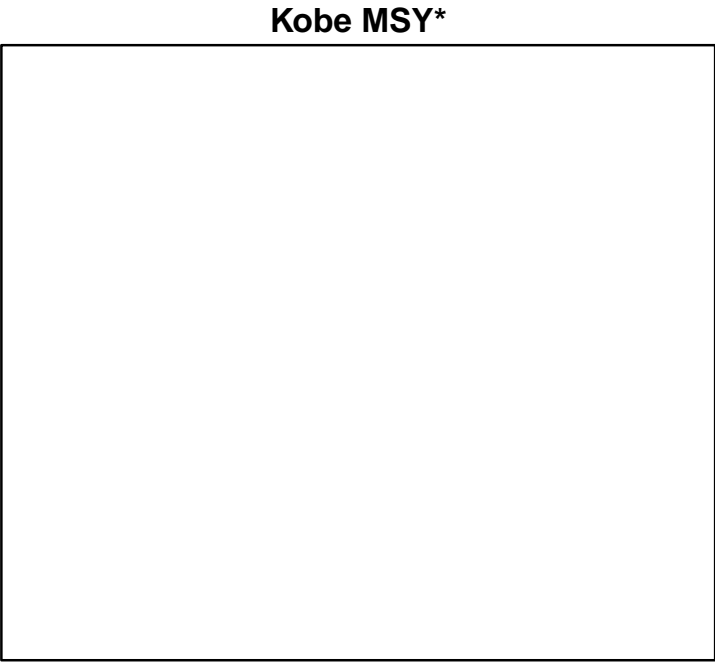


## European seabass Gulf of Lions [EBASSGSA7]

Metadata	
<b>Scientific Name</b>	Dicentrarchus labrax
<b>Current Assess ID</b>	STECF-EBASSGSA7-2002-2015-OSIO
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2015	0.136
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	246	-	-
TN	-	-	-	-	-
R	R-E00	2015	$3.86 \times 10^8$	-	-
F	F-1/yr	2015	0.536	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	272		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	3.941		
ER/ERmgt	-	-	-		



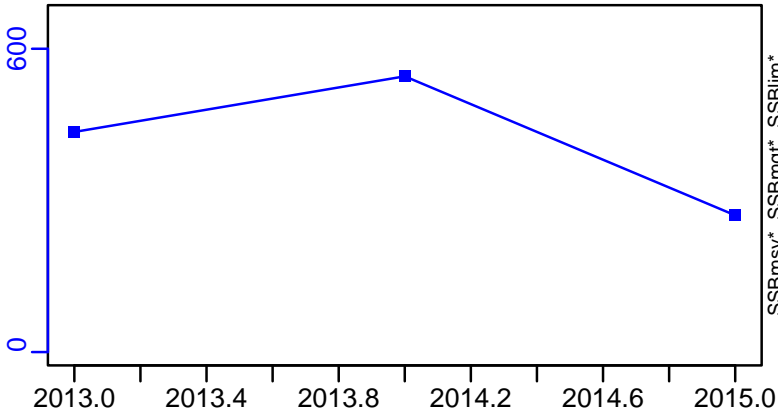
◆ Start Year ◆ End Year \* No Data

European seabass Gulf of Lions [EBASSGSA7]

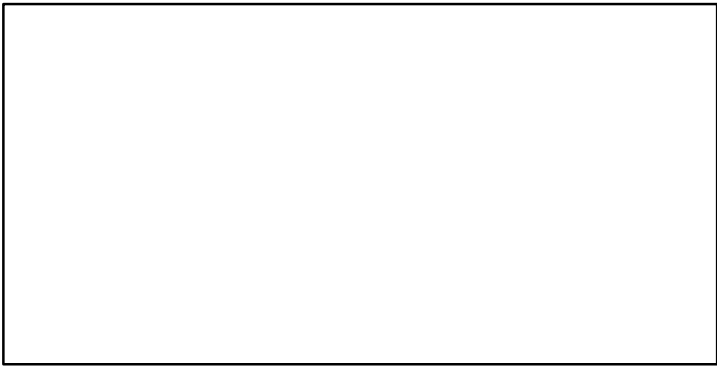
TB\*



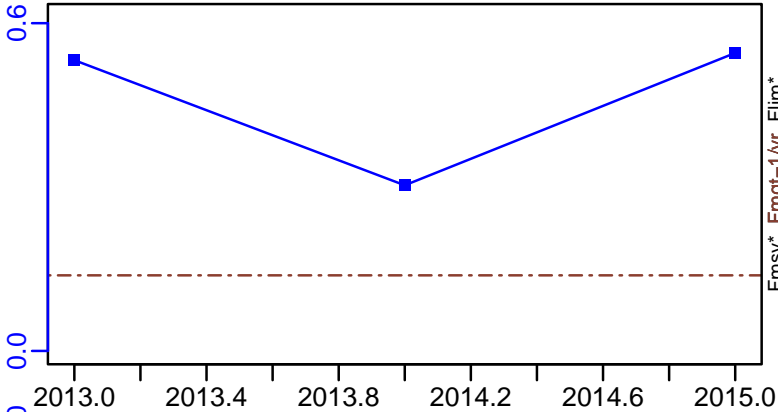
SSB-MT (2002–2015–OSIO)



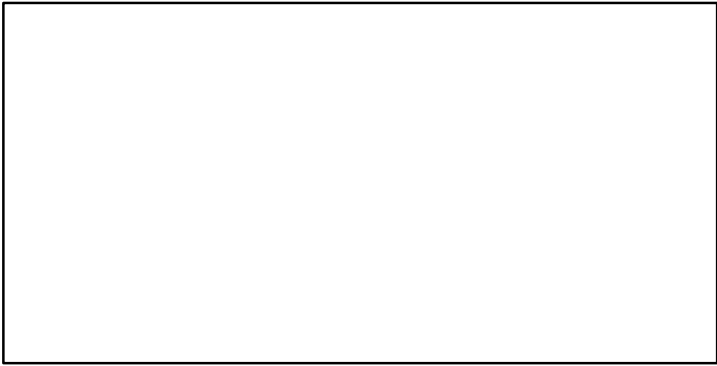
TN \*



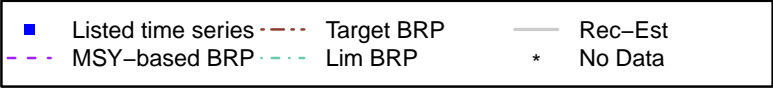
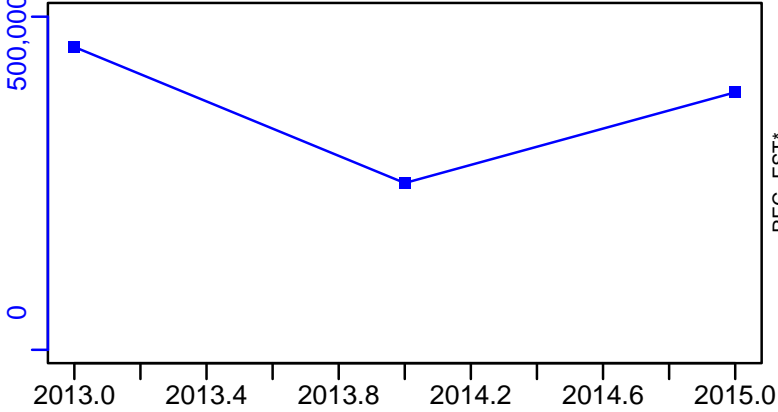
F-1/yr (2002–2015–OSIO)



ER\*

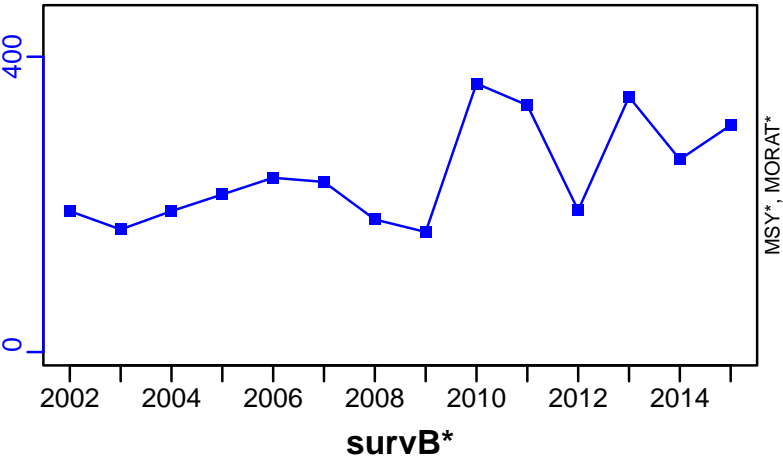


R-E00 (2002–2015–OSIO)



European seabass Gulf of Lions [EBASSGSA7]

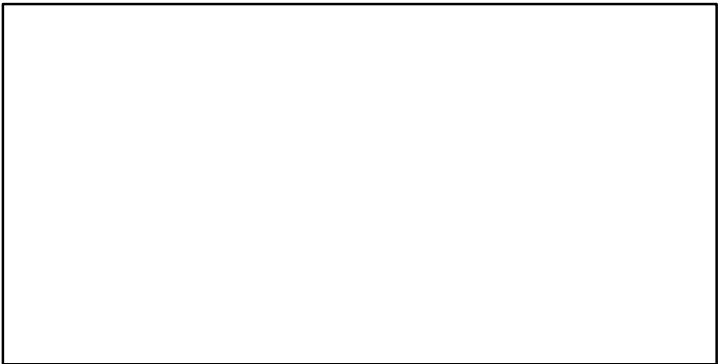
TL-MT, TC\*, RecC\* (2002-2015-OSIO)



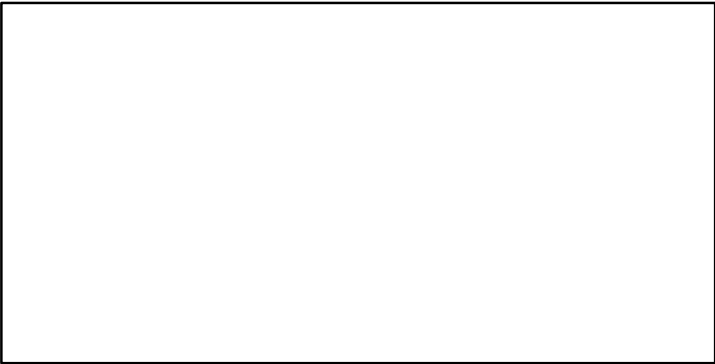
TAC\*, Cpair\*, Cadv\*



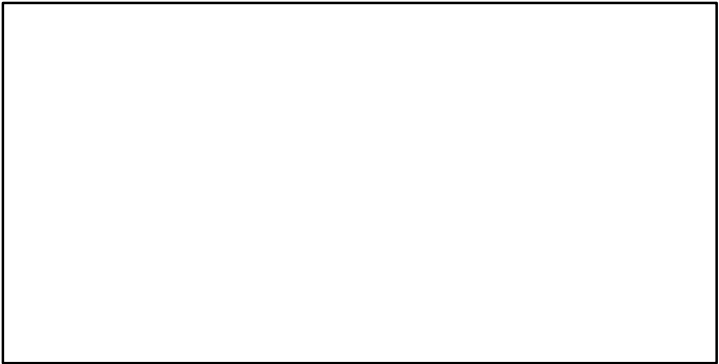
CPUE\*



EFFORT\*



CdivMSY\*



## European seabass ICES 4bc-7 [EBASSIVbc-VII]

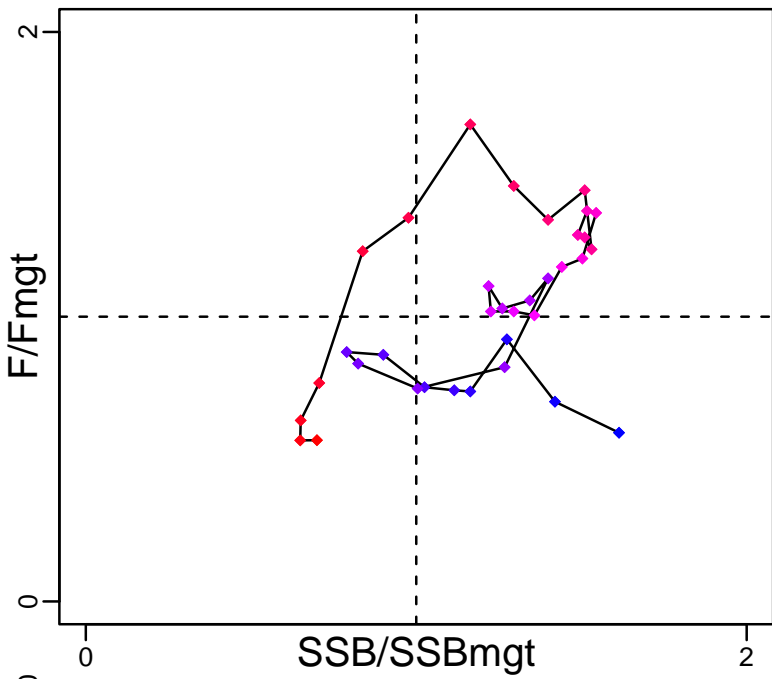
Metadata	
<b>Scientific Name</b>	Dicentrarchus labrax
<b>Current Assess ID</b>	WGCSE-EBASSIVbc-VII-1985-2021-ICESIMP2021-2
<b>Area</b>	ICES 4bc-7
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2021	0.171
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2020	14,439
<b>Fmgt</b>	Fmgt-1/yr	2021	0.171
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	10,300
<b>Flim</b>	Flim-1/yr	2021	0.254
<b>ERlim</b>	-	-	-

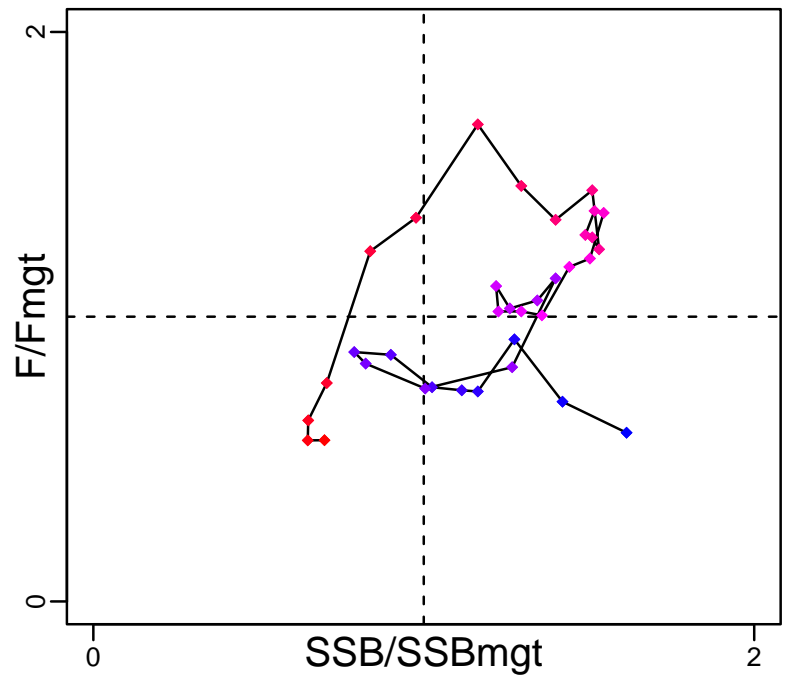
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	10,800	Both	-
<b>SSB</b>	SSB-MT	2021	11,600	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	9,700,000	-	0
<b>F</b>	F-1/yr	2021	0.109	-	-
<b>ER</b>	ER-calc-ratio	2017	0.106	-	-
<b>TC</b>	TC-MT	2018	1150		
<b>TL</b>	TL-MT	2021	1040		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2021	0.634		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2020	0.762		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	0.634		
<b>ER/ERmgt</b>	-	-	-		

# European seabass ICES 4bc-7 [EBASSIVbc-VII]

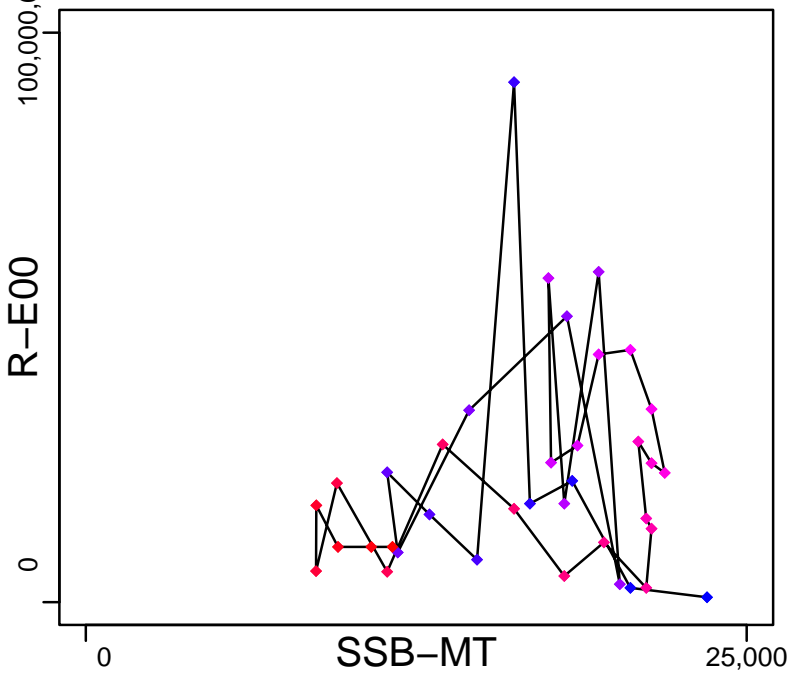
Kobe MSYpref (1985-2020-ICESIMP2021-2)



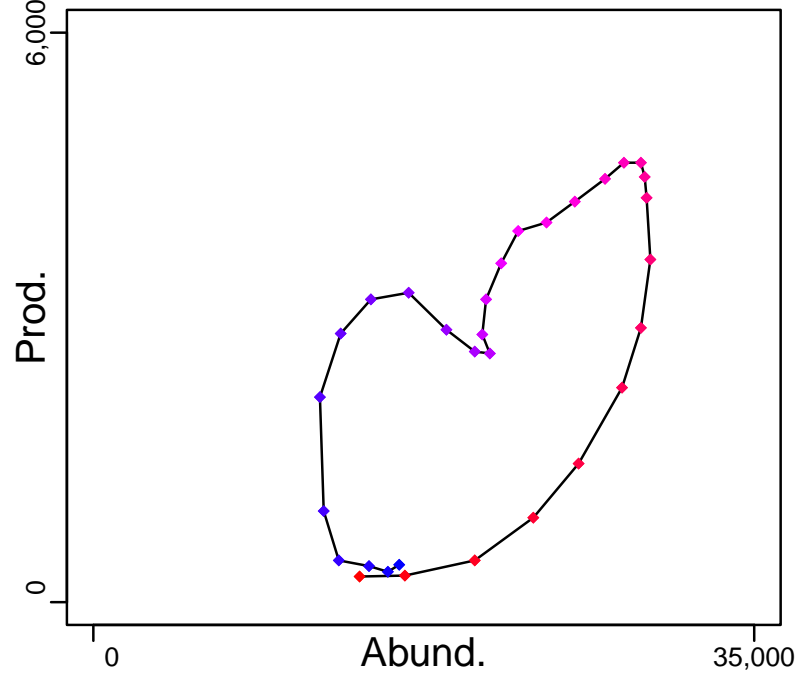
Kobe MGTpref (1985-2020-ICESIMP2021-2)



Spawner Recruit (1985-2021-ICESIMP2021-2)



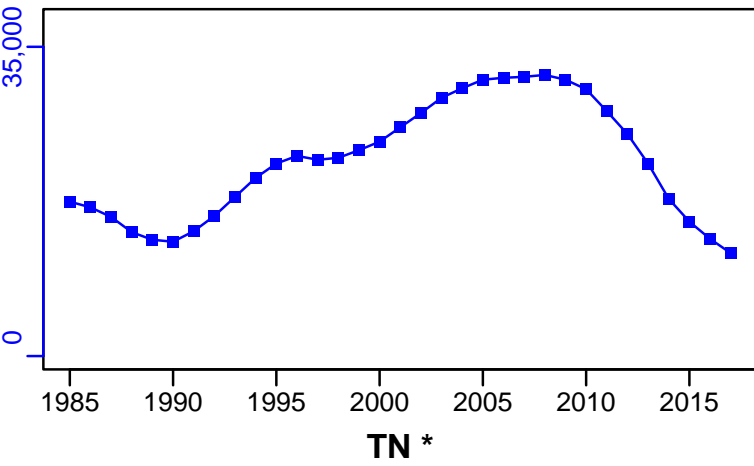
Production (1985-2017-ICESIMP2018)



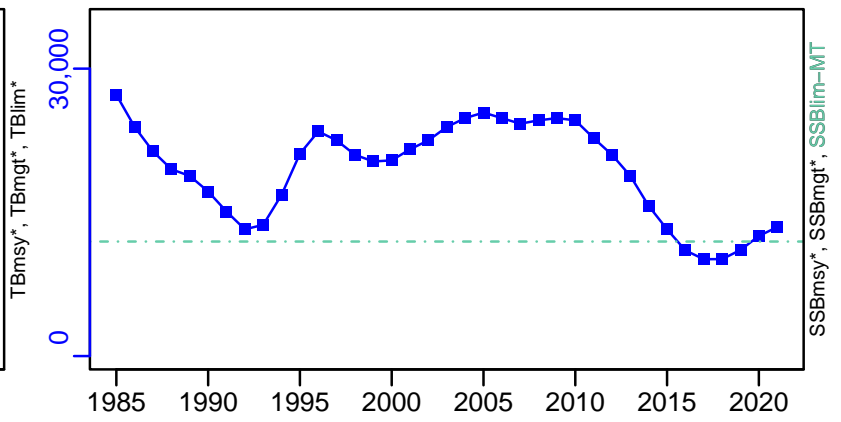
◆ Start Year ◆ End Year \* No Data

# European seabass ICES 4bc-7 [EBASSIVbc-VII]

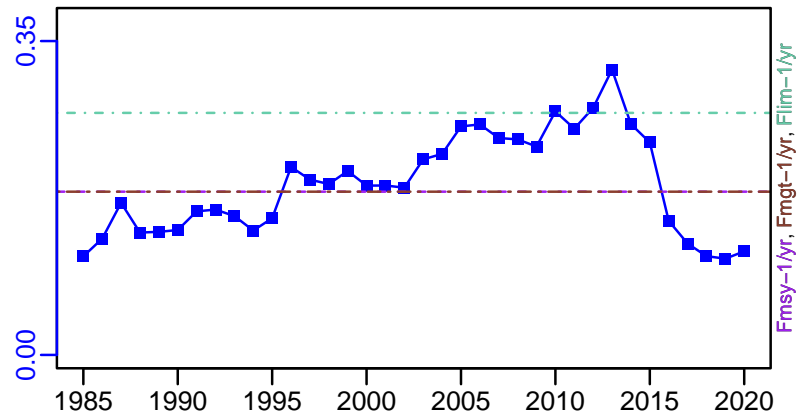
TB-MT (1985-2017-ICESIMP2018)



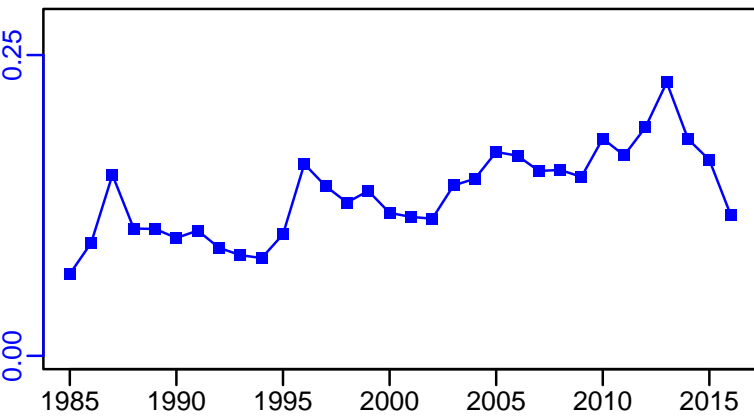
SSB-MT (1985-2021-ICESIMP2021-2)



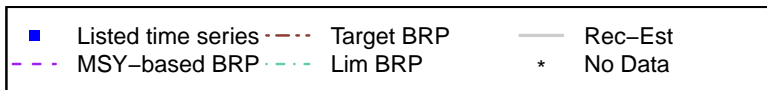
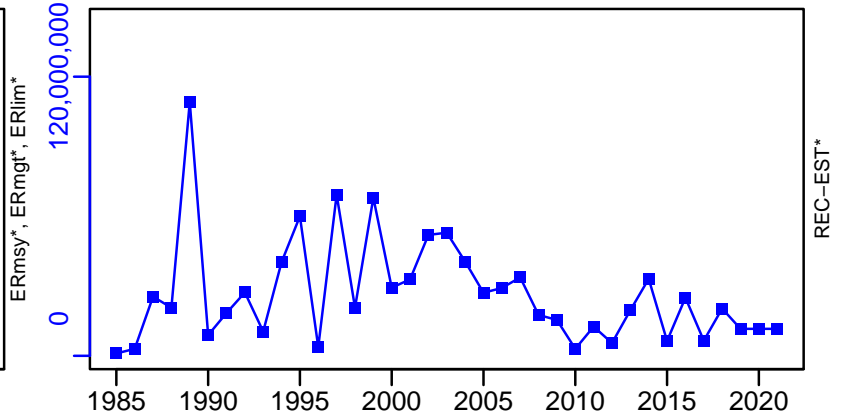
F-1/yr (1985-2021-ICESIMP2021-2)



ER-calc-ratio (1985-2017-ICESIMP2018)

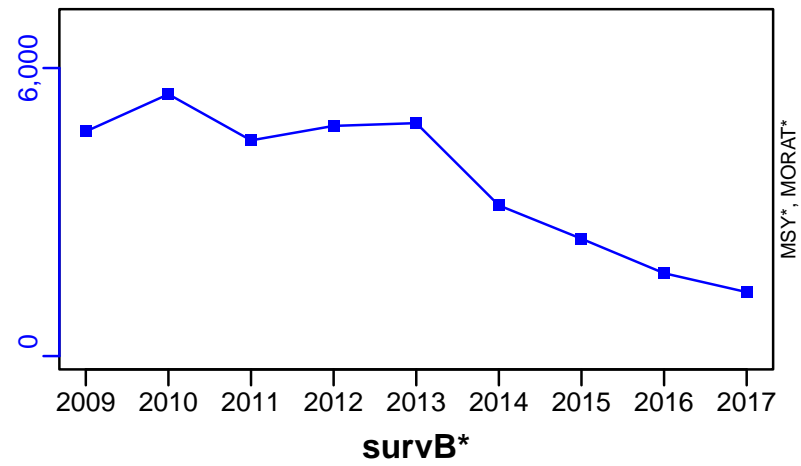


R-E00 (1985-2021-ICESIMP2021-2)

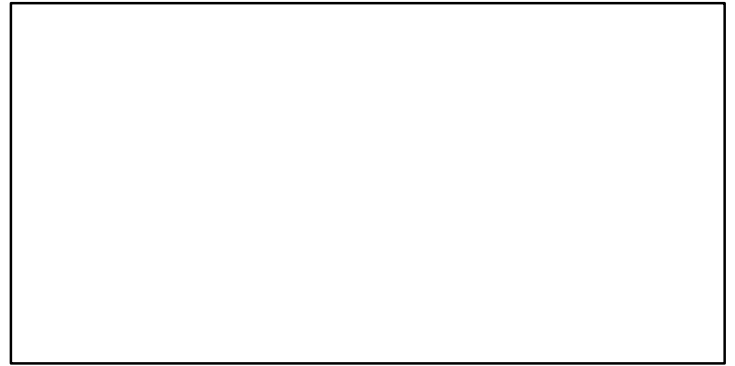


European seabass ICES 4bc-7 [EBASSIVbc-VII]

TC-MT, TL\*, RecC\* (1985-2018-ICESIMP2018)



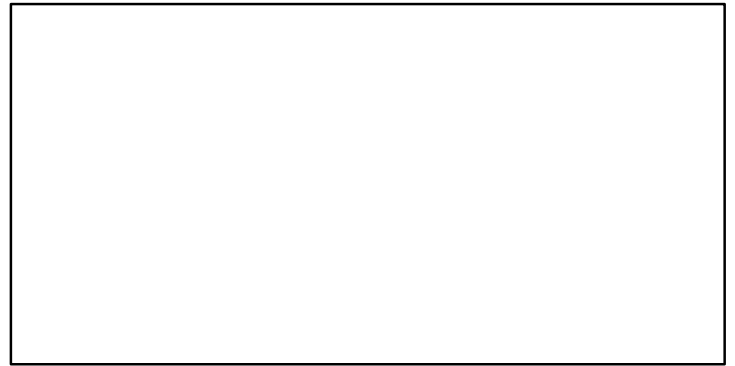
TAC\*, Cpair\*, Cadv\*



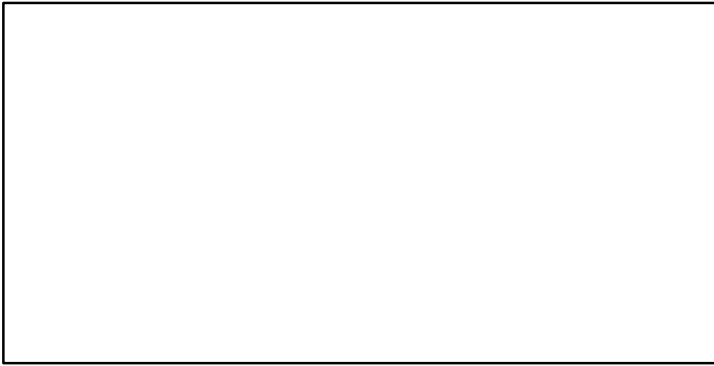
survB\*



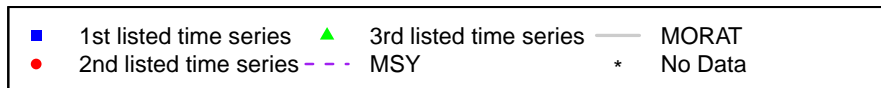
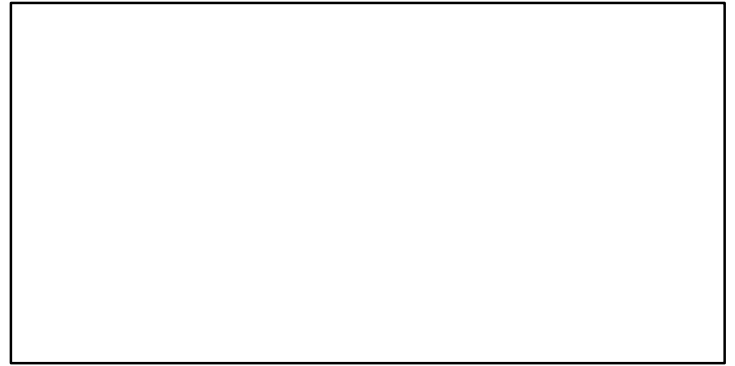
CPUE\*



EFFORT\*



CdivMSY\*





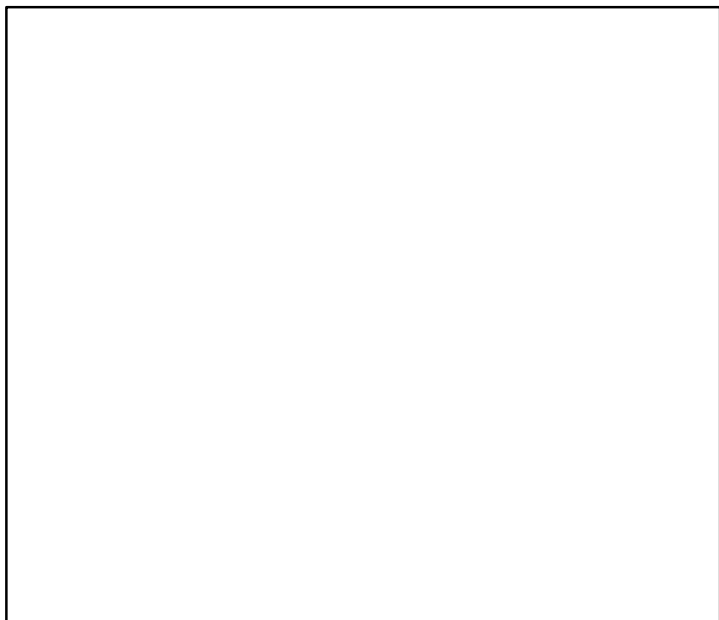
## European seabass ICES 6a-7b-j [EBASSVla-VIIb-j]

Metadata	
<b>Scientific Name</b>	Dicentrarchus labrax
<b>Current Assess ID</b>	WGCSE-EBASSVla-VIIb-j-2000-2019-ICESIMP2021-2
<b>Area</b>	ICES 6a-7b-j
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015, 2016, 2019

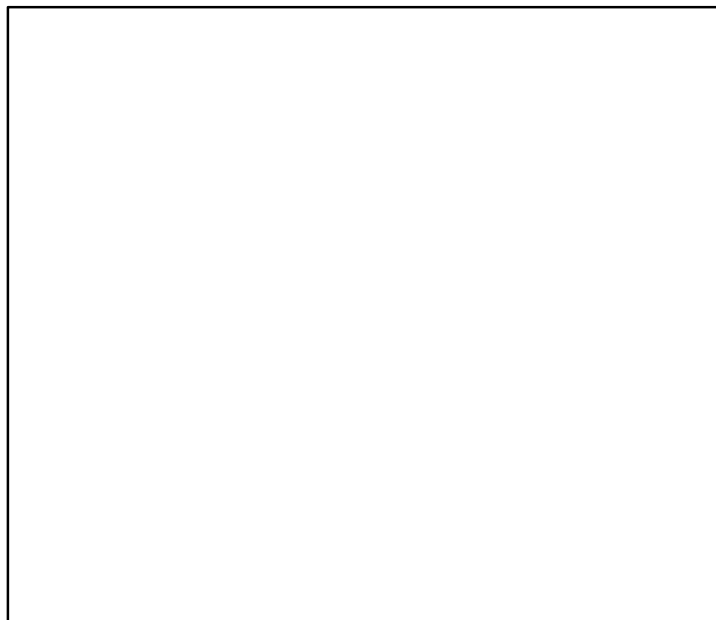
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	2		
TL	TL-MT	2019	0.04		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*



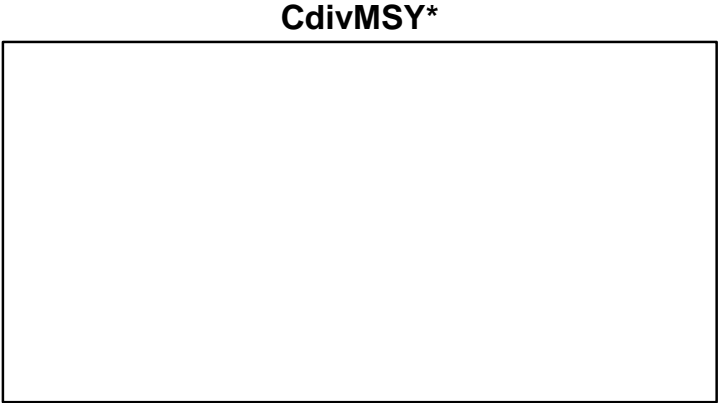
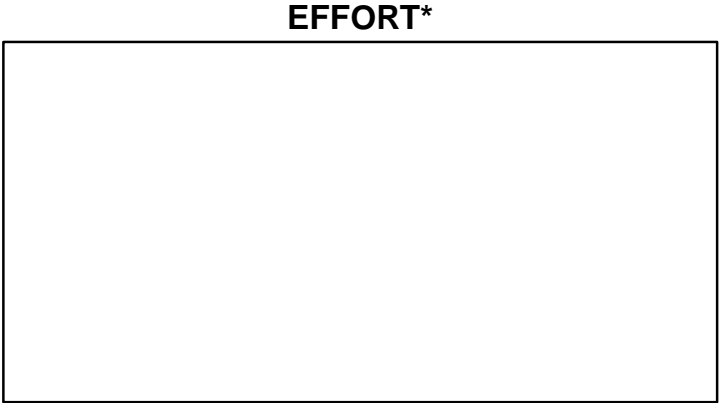
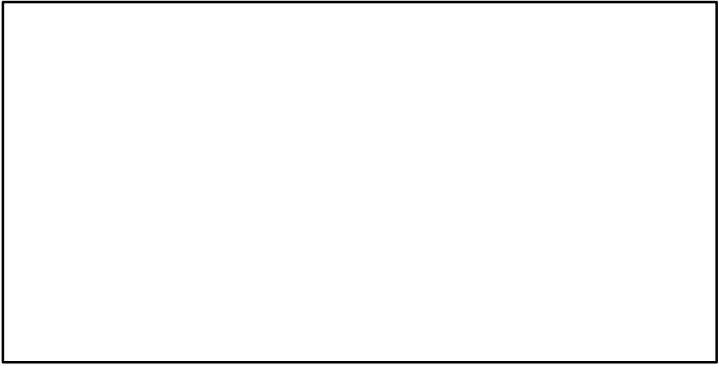
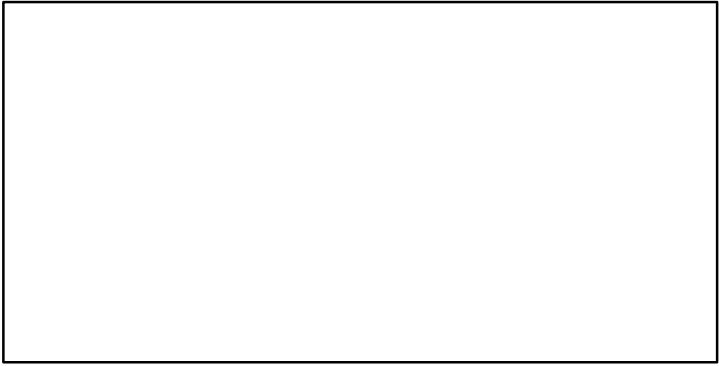
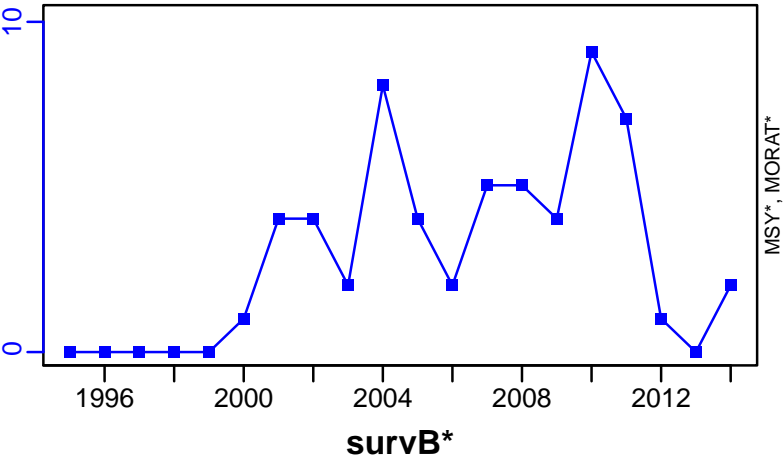
Recruits\*



# European seabass ICES 6a–7b–j [EBASSVIa–VIIb–j]

TC–MT, TL\*, RecC\* (1995–2015–ICESIMP2016)

TAC\*, Cpair\*, Cadv\*



## European seabass ICES 8ab [EBASSVIIIab]

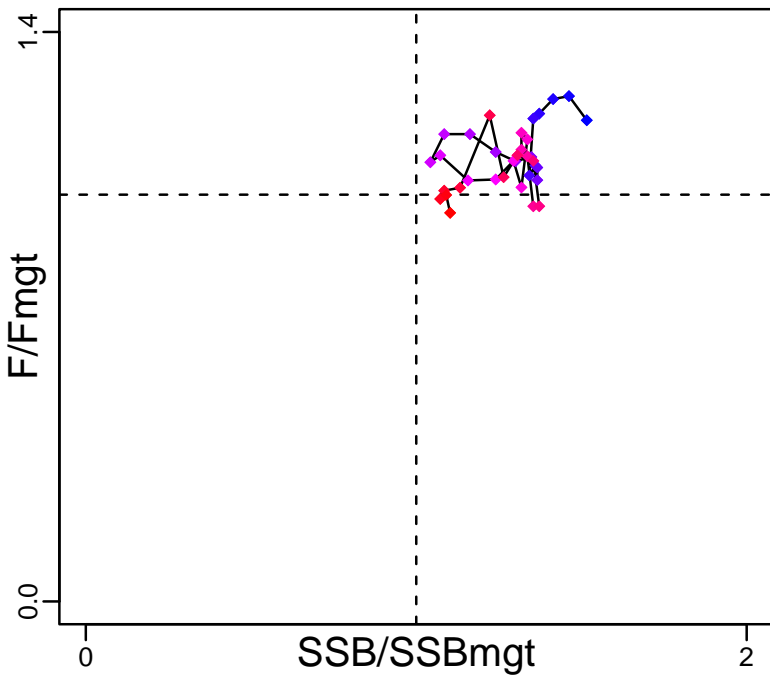
Metadata	
<b>Scientific Name</b>	Dicentrarchus labrax
<b>Current Assess ID</b>	WGBIE-EBASSVIIIab-1985-2021-ICESIMP2021-2
<b>Area</b>	ICES 8ab
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2019, 2020, 2021, 2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2021	0.138
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2020	16,688
<b>Fmgt</b>	Fmgt-1/yr	2021	0.138
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	11,900
<b>Flim</b>	Flim-1/yr	2020	0.172
<b>ERlim</b>	-	-	-

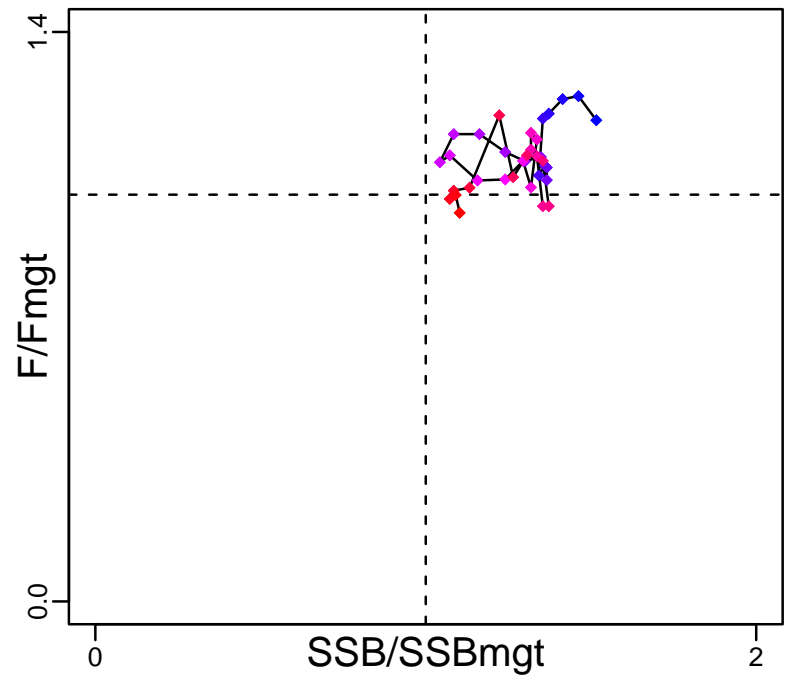
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2021	18,600	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	17,900,000	-	0
<b>F</b>	F-1/yr	2021	0.111	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2021	2130		
<b>TL</b>	TL-MT	2021	2090		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2021	0.803		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2020	1.097		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	0.803		
<b>ER/ERmgt</b>	-	-	-		

European seabass ICES 8ab [EBASSVIIIab]

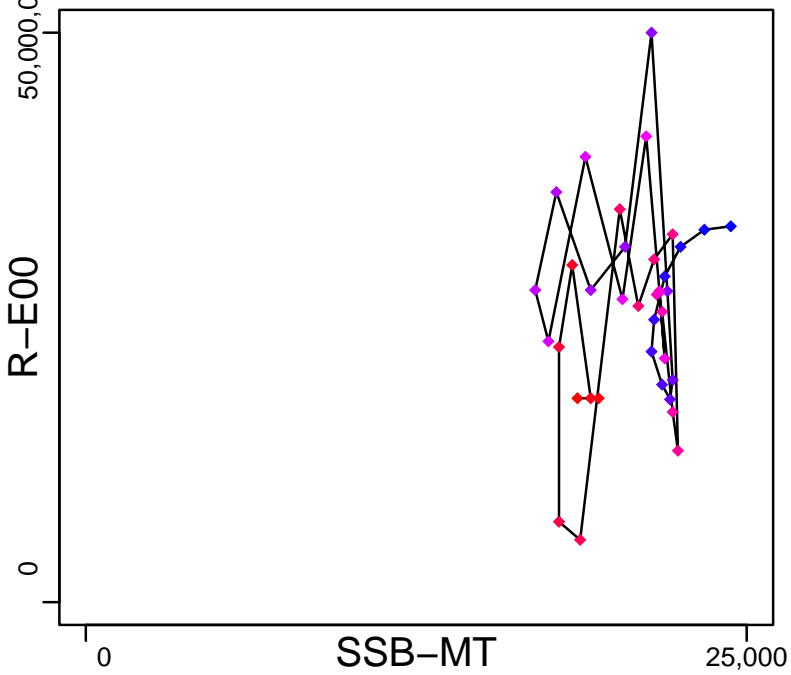
Kobe MSYpref (1985–2020–ICESIMP2021–2)



Kobe MGTpref (1985–2020–ICESIMP2021–2)



Spawner Recruit (1985–2021–ICESIMP2021–2)



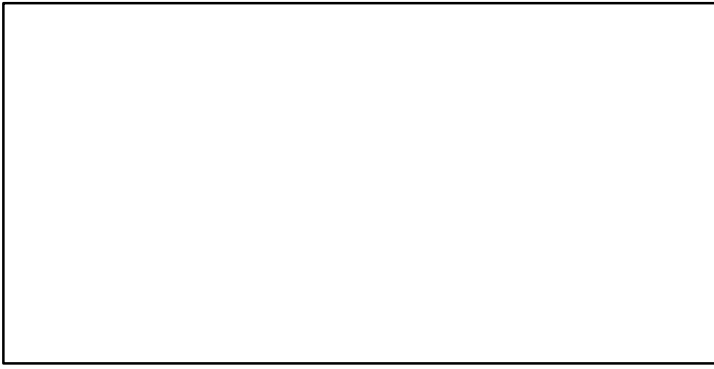
Production\*



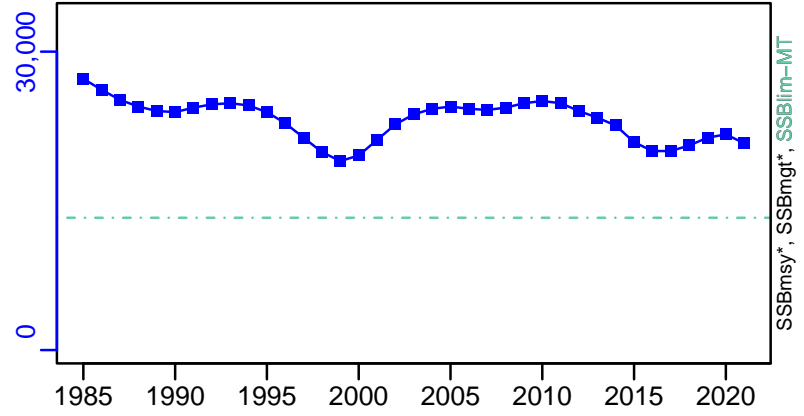
◆ Start Year ◆ End Year \* No Data

# European seabass ICES 8ab [EBASSVIIIab]

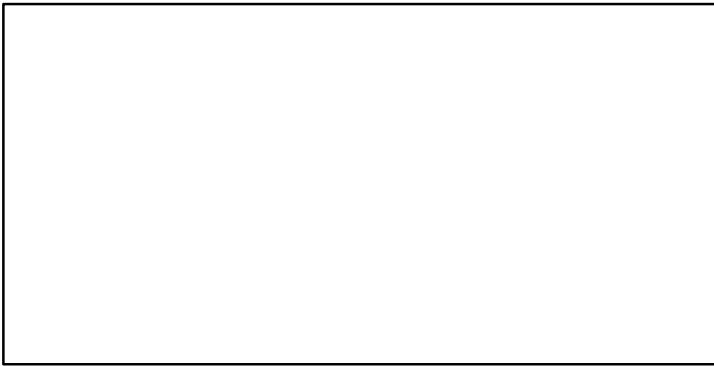
TB\*



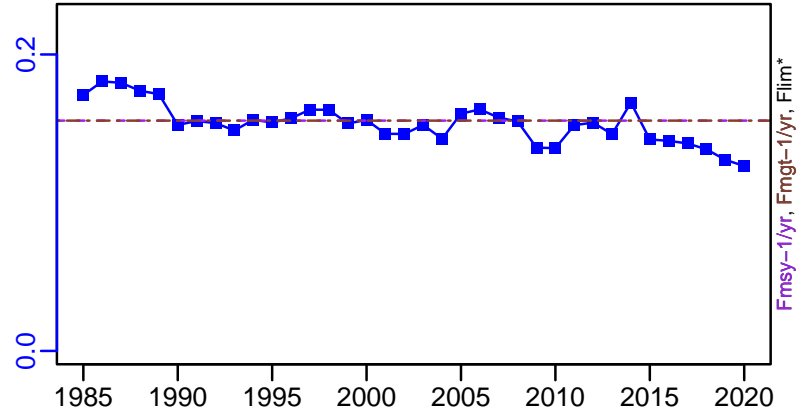
SSB-MT (1985-2021-ICESIMP2021-2)



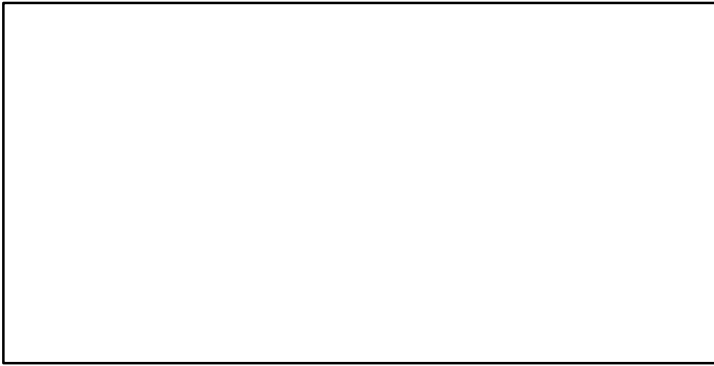
TN \*



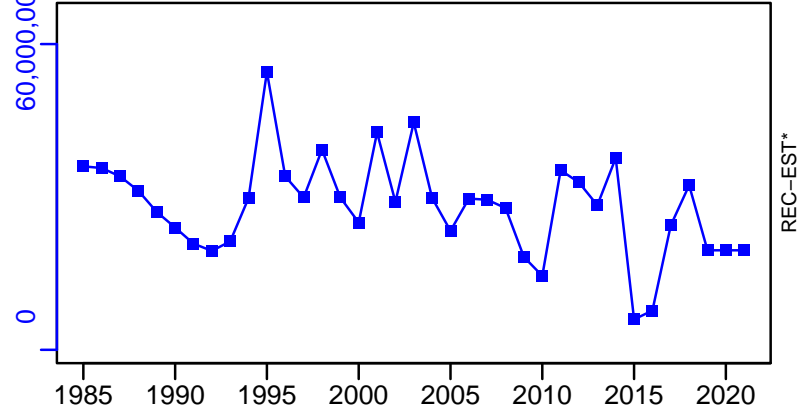
F-1/yr (1985-2021-ICESIMP2021-2)



ER\*

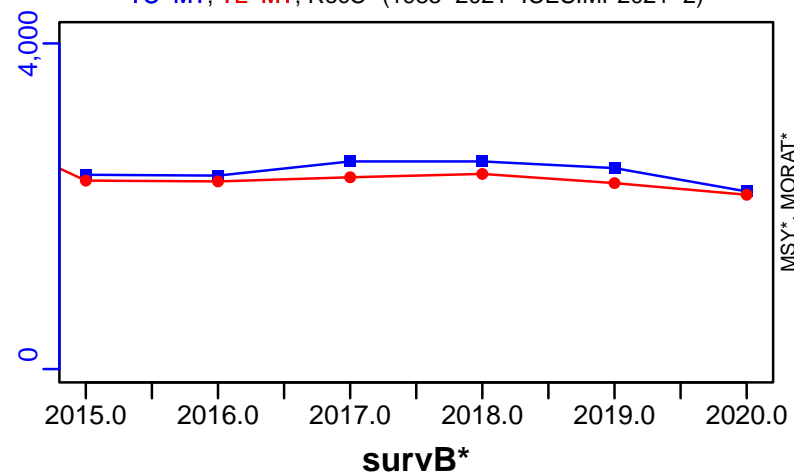


R-E00 (1985-2021-ICESIMP2021-2)

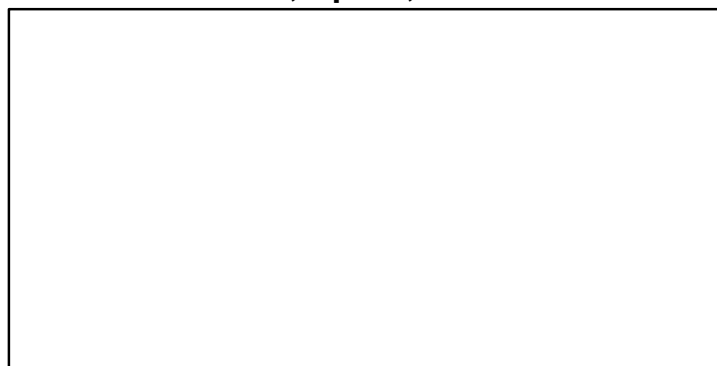


# European seabass ICES 8ab [EBASSVIIIab]

TC-MT, TL-MT, RecC\* (1985-2021-ICESIMP2021-2)



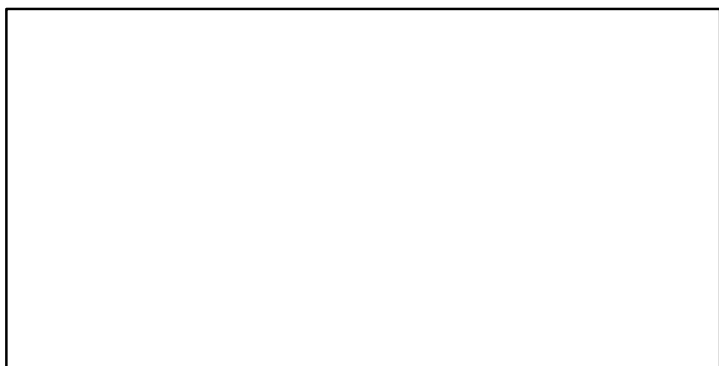
TAC\*, Cpair\*, Cadv\*



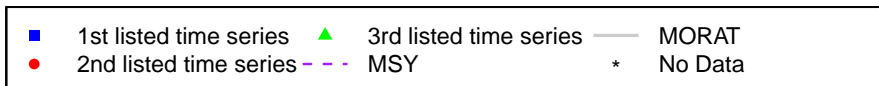
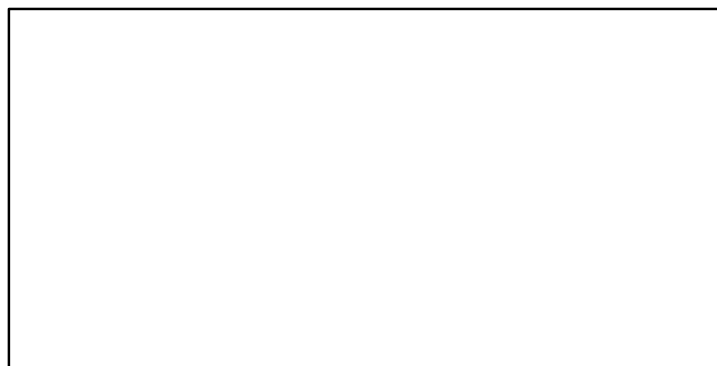
CPUE\*



EFFORT\*



CdivMSY\*





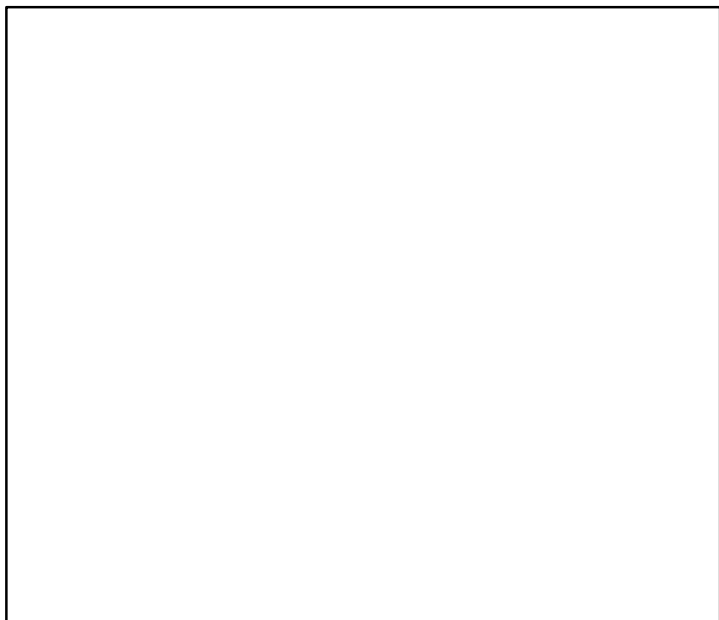
## European seabass ICES 8c-9a [EBASSVIIIc-IXa]

Metadata	
<b>Scientific Name</b>	Dicentrarchus labrax
<b>Current Assess ID</b>	WGBIE-EBASSVIIIc-IXa-1978-2020-ICESIMP2021-2
<b>Area</b>	ICES 8c-9a
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2015, 2016, 2018, 2020

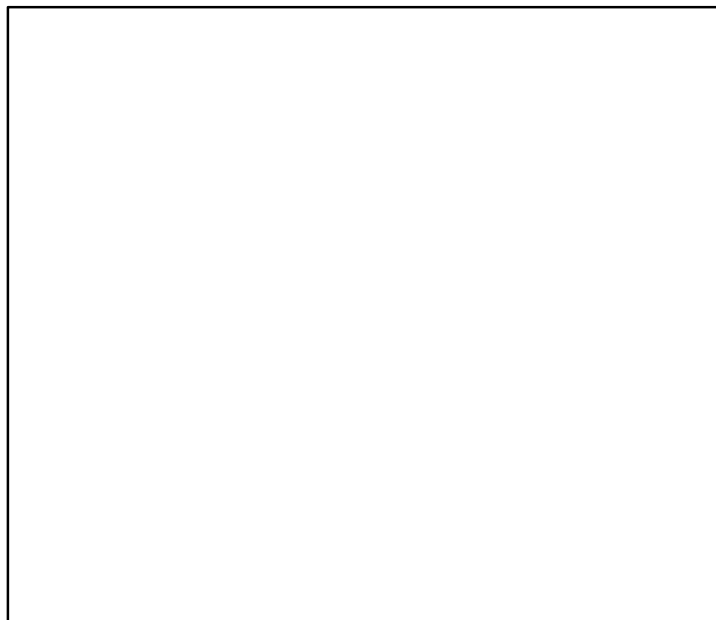
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	917		
TL	TL-MT	2020	896		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year    ◆ End Year    \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*

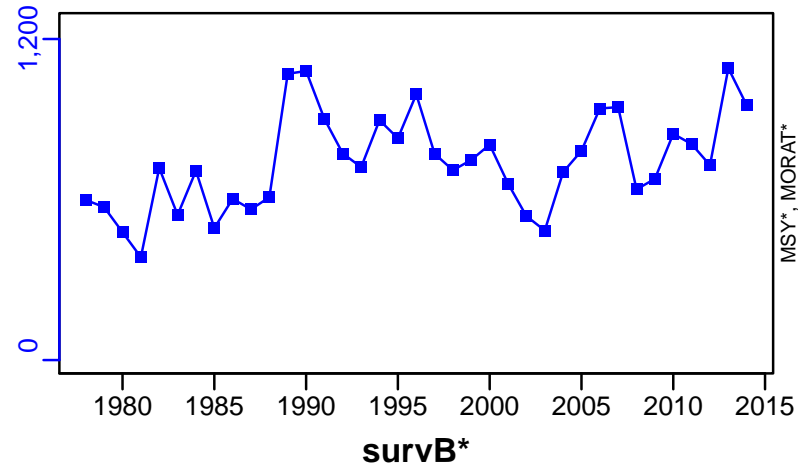


Recruits\*

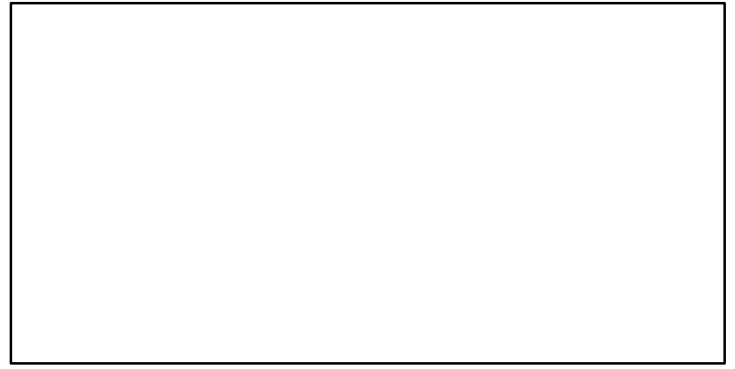


European seabass ICES 8c–9a [EBASSVIIIc–IXa]

TC–MT, TL\*, RecC\* (1978–2015–ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



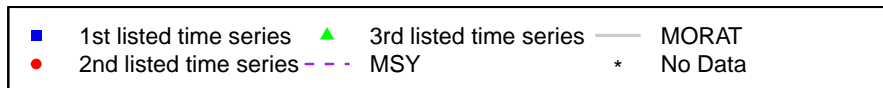
CPUE\*



EFFORT\*



CdivMSY\*

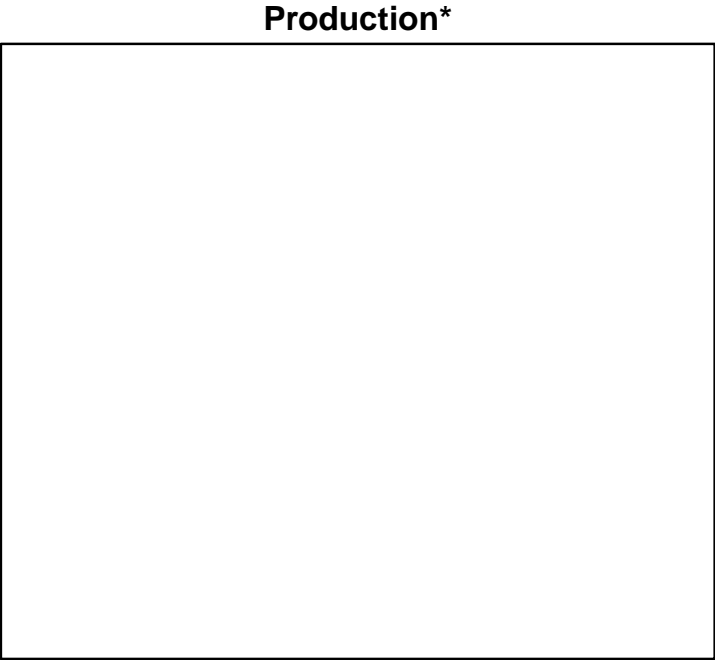
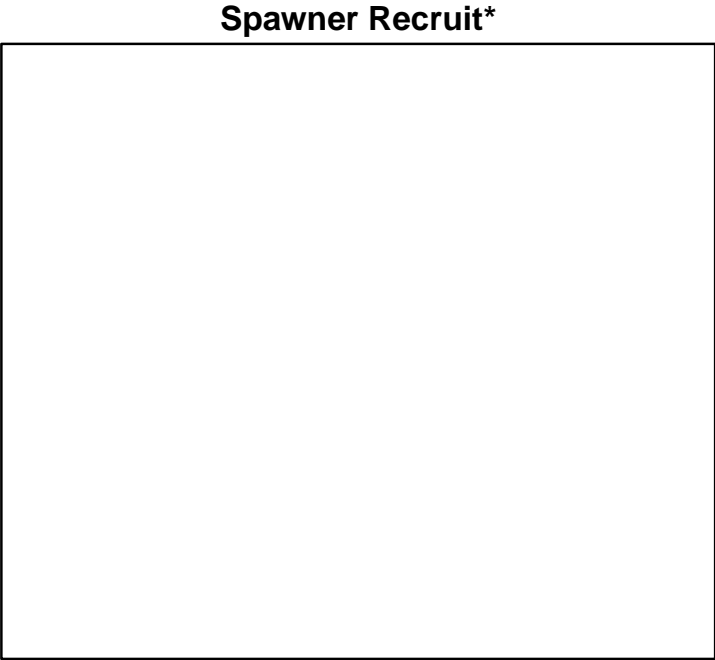
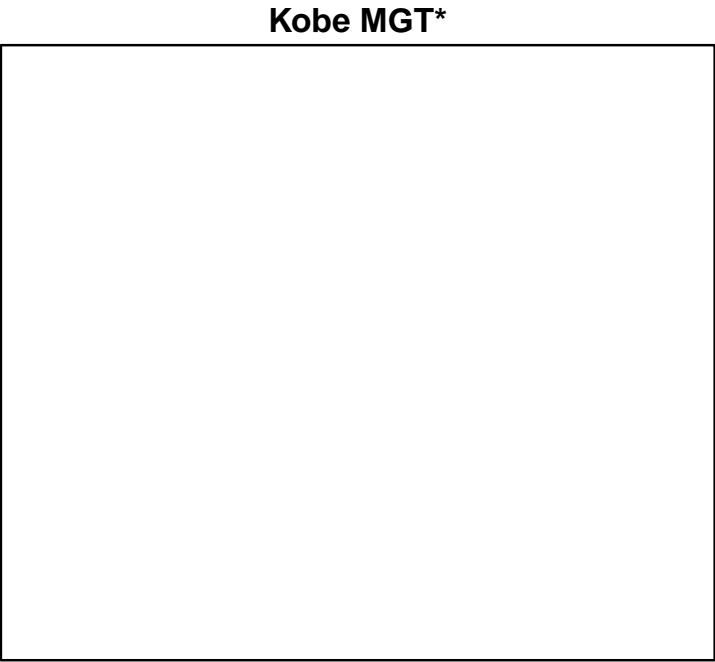
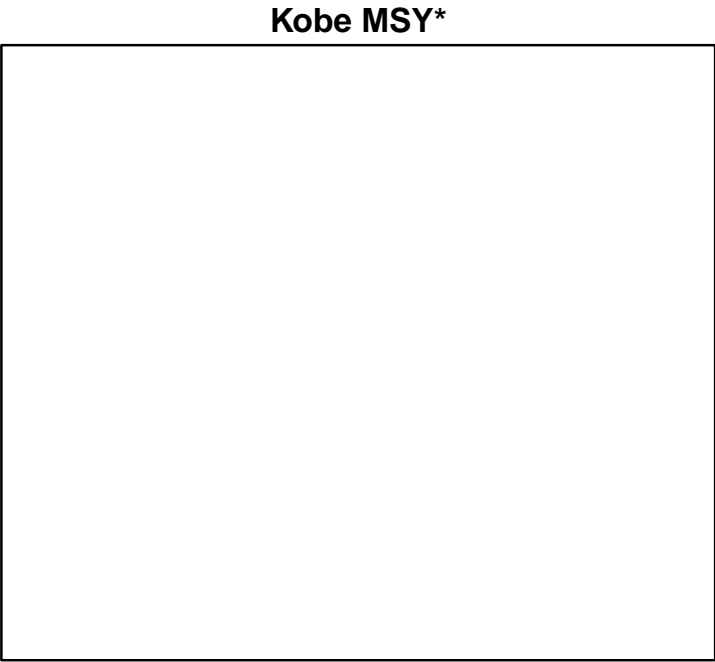


## Flame snapper Okinawa Islands [FSNAPOKWI]

Metadata	
<b>Scientific Name</b>	Etelis coruscans
<b>Current Assess ID</b>	FAFRFJ-FSNAPOKWI-1989-2013-JPNIMP2016
<b>Area</b>	Okinawa Islands
<b>Management Authority</b>	Fisheries Agency of Japan
<b>Assessor</b>	Fisheries Agency and Fisheries Research Agency of Japan
<b>Asmts in RAM</b>	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	103		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year   ◆ End Year   \* No Data

Flame snapper Okinawa Islands [FSNAPOKWI]

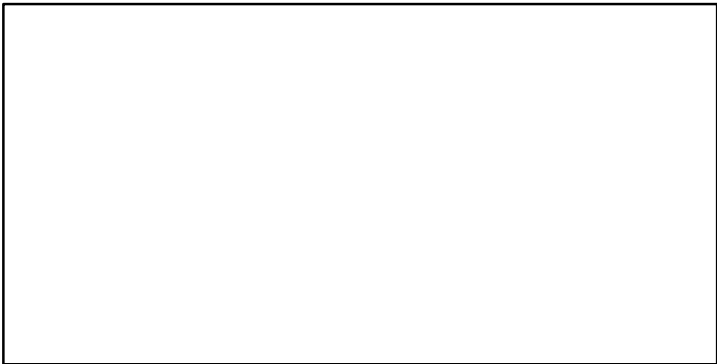
TB\*



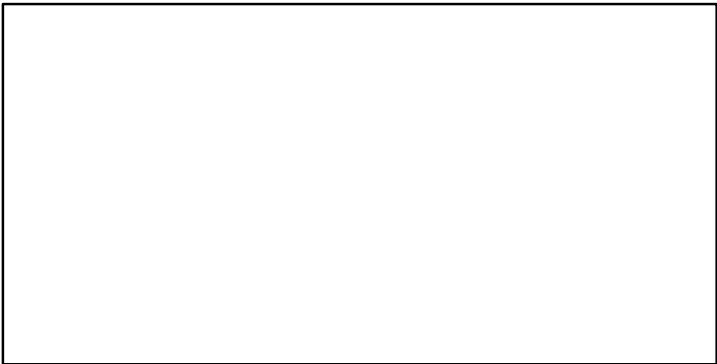
SSB\*



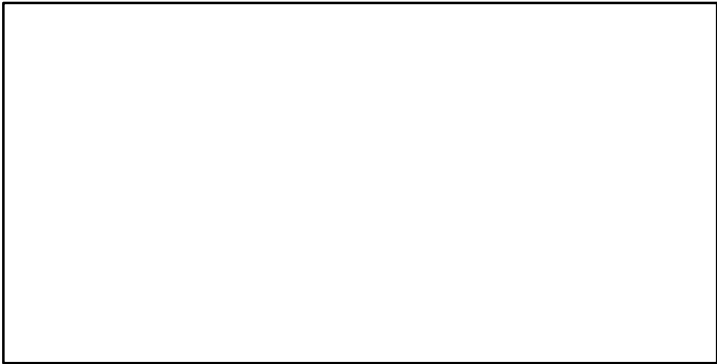
TN \*



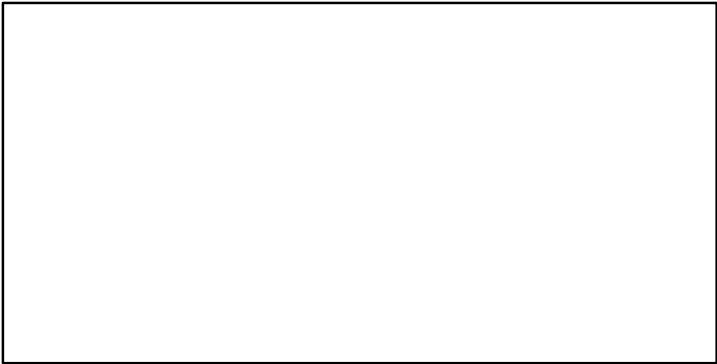
F\*



ER\*



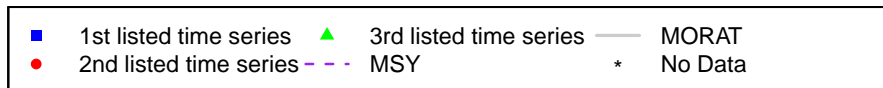
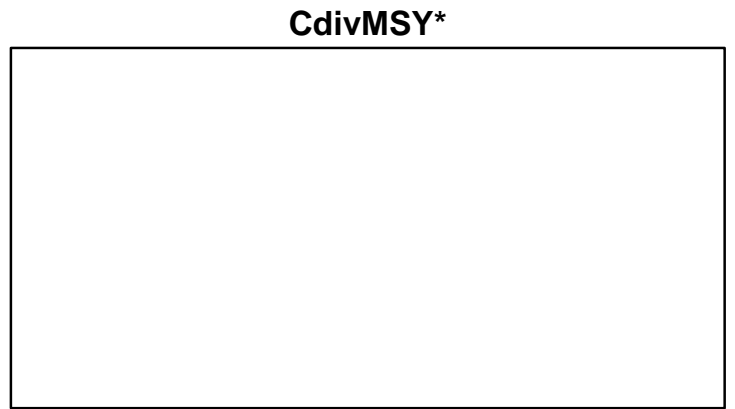
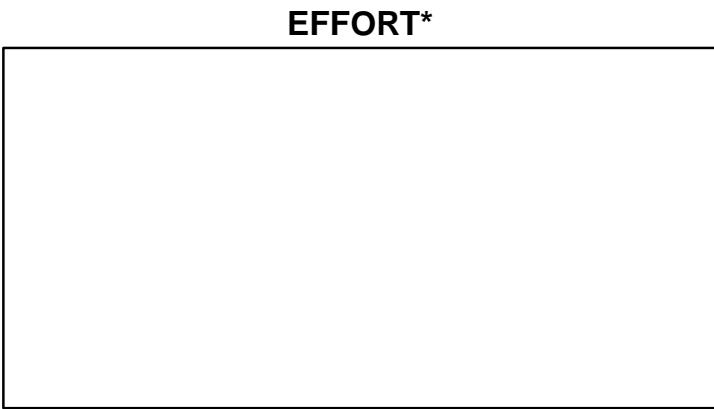
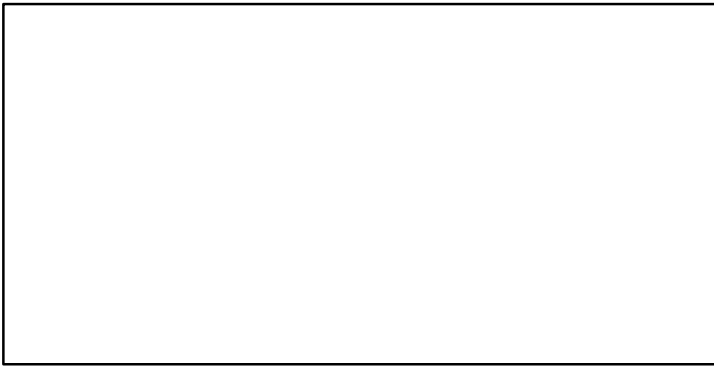
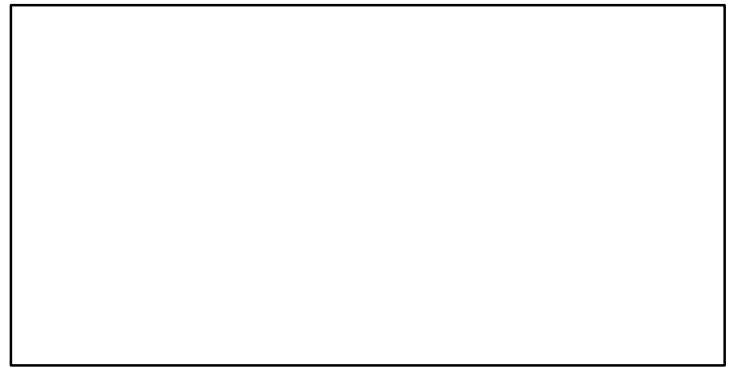
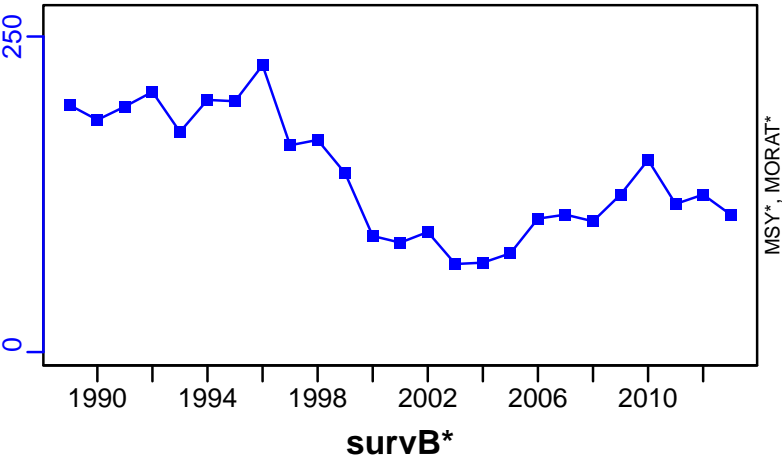
Recruits\*



# Flame snapper Okinawa Islands [FSNAPOKWI]

TC-MT, TL\*, RecC\* (1989-2013-JPNIMP2016)

TAC\*, Cpair\*, Cadv\*





## Gag Gulf of Mexico [GAGGM]

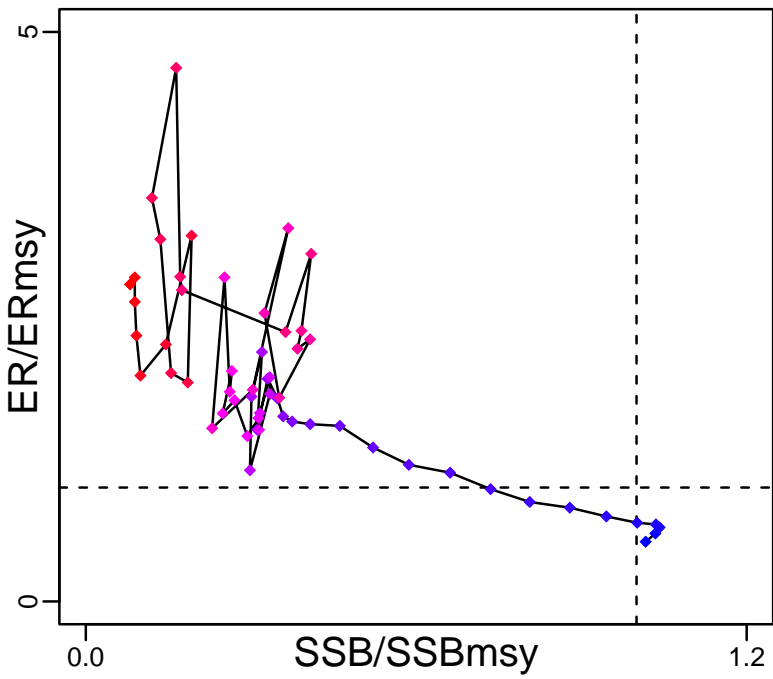
Metadata	
<b>Scientific Name</b>	Mycteroperca microlepis
<b>Current Assess ID</b>	SEFSC-GAGGM-1963-2019-SISIMP2022
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2012, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2019	28,560
<b>Fmsy</b>	Fmsy-pr-1/yr	2012	0.108
<b>ERmsy</b>	ERmsy-ratio	2019	0.148
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2012	27,558
<b>Fmgt</b>	Fmgt-1/yr	2012	0.081
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2012	0.134
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

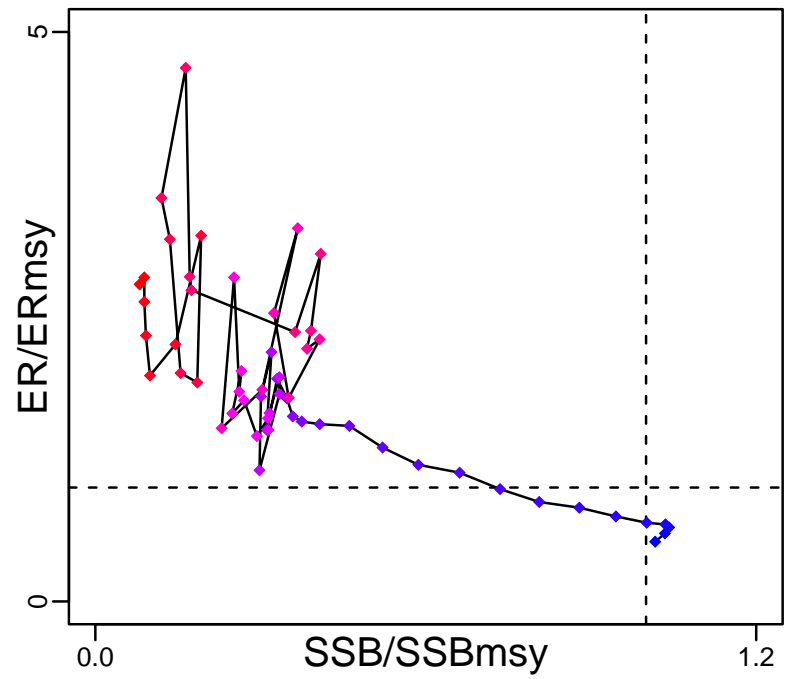
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2019	2295	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	2,805,700	-	0
<b>F</b>	F-1/yr	2012	0.083	-	-
<b>ER</b>	ER-ratio	2019	0.412	-	3
<b>TC</b>	TC-MT	2019	1712		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2019	0.08		
<b>F/Fmsy</b>	F-1/yr/Fmsy-pr-1/yr	2012	0.769		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2019	2.784		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2012	0.428		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	1.025		
<b>ER/ERmgt</b>	-	-	-		

# Gag Gulf of Mexico [GAGGM]

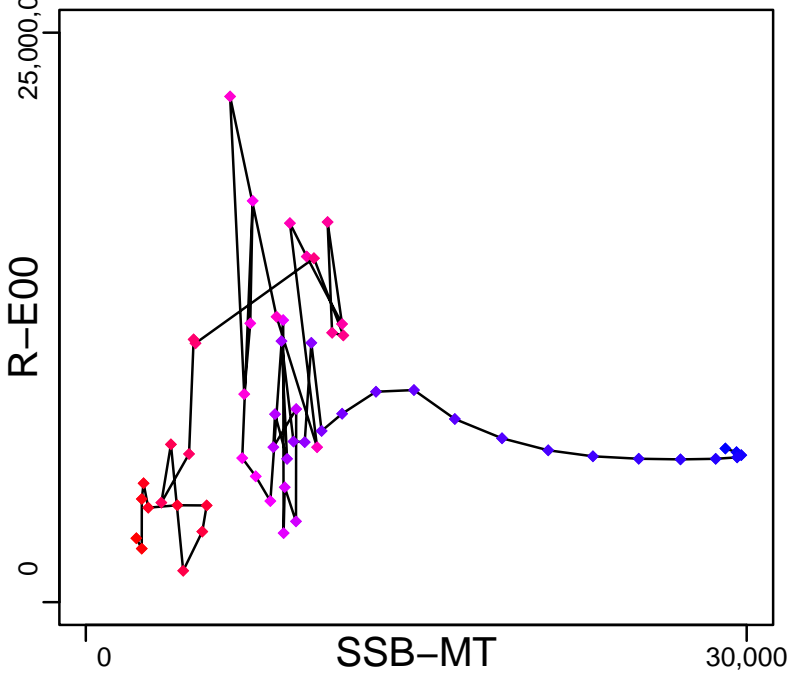
Kobe MSY<sub>pref</sub> (1963–2019–SISIMP2022)



Kobe MGT<sub>pref</sub> (1963–2019–SISIMP2022)



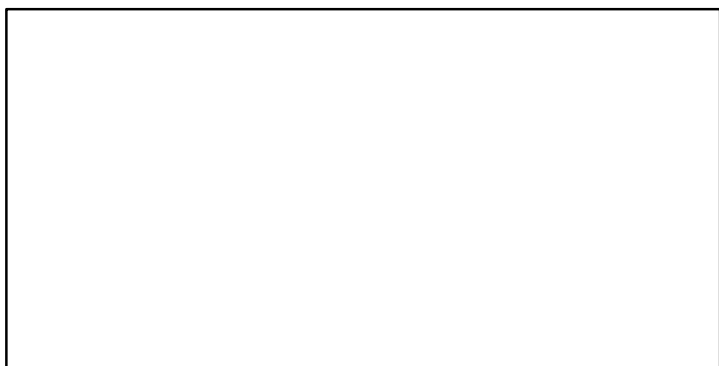
Spawner Recruit (1963–2019–SISIMP2022)



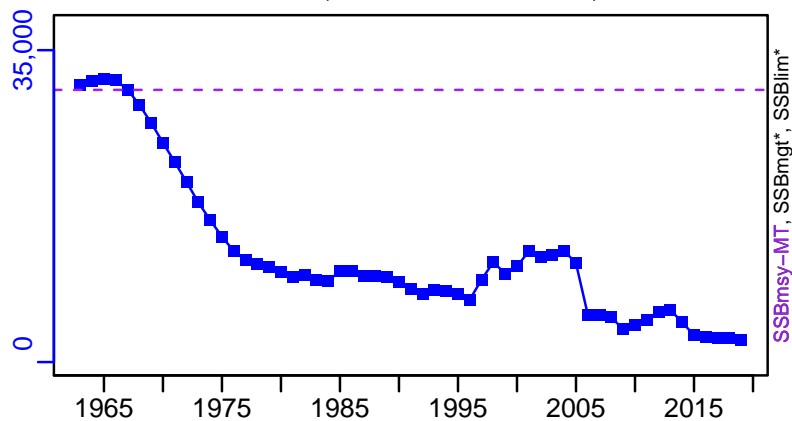
◆ Start Year ◆ End Year \* No Data

# Gag Gulf of Mexico [GAGGM]

TB\*



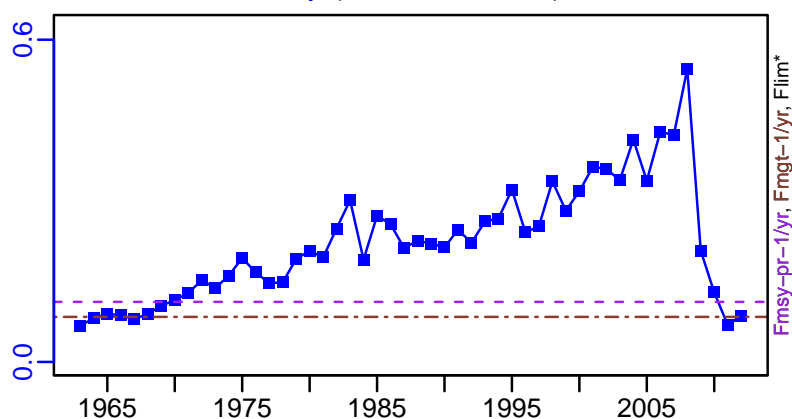
SSB-MT (1963–2019–SISIMP2022)



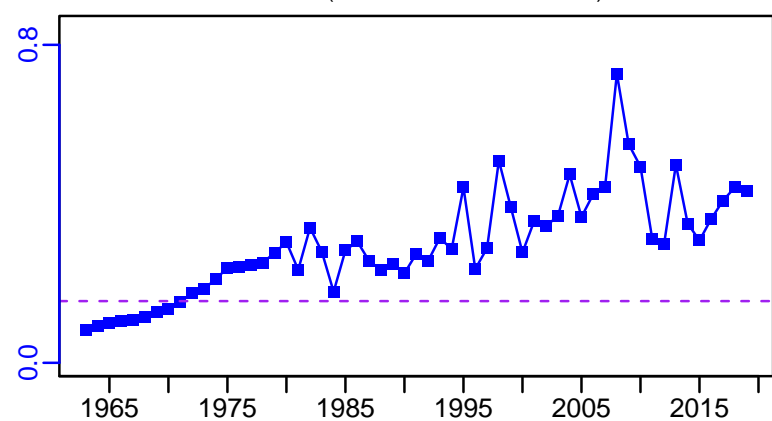
TN \*



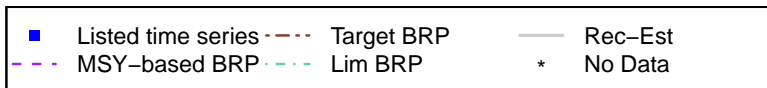
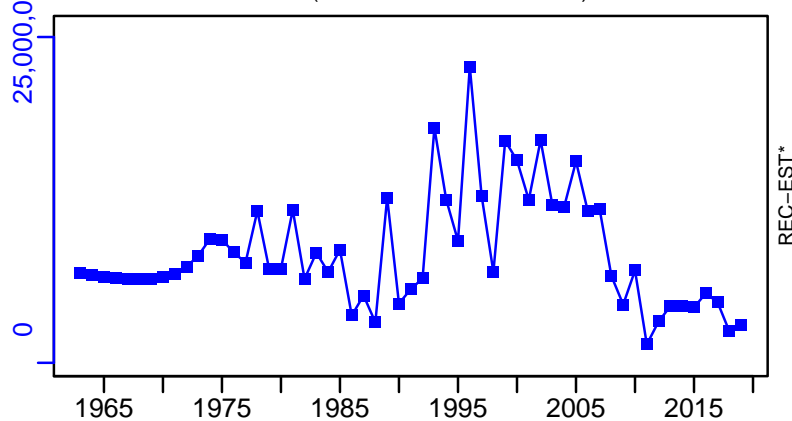
F-1/yr (1963–2012–HIVELY)



ER-ratio (1963–2019–SISIMP2022)

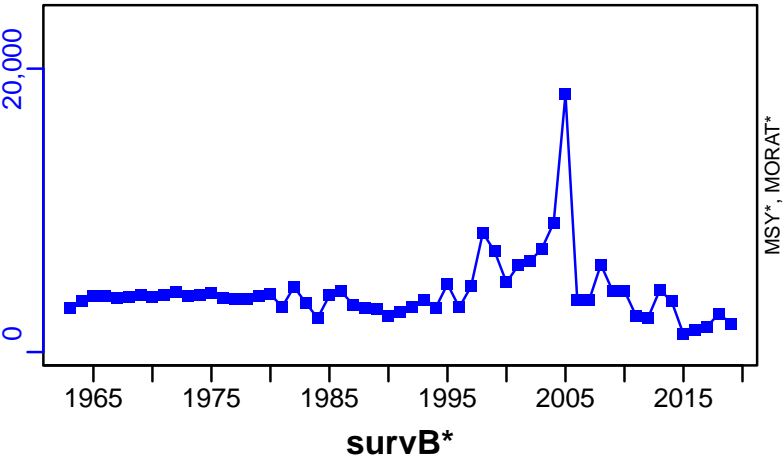


R-E00 (1963–2019–SISIMP2022)



Gag Gulf of Mexico [GAGGM]

TC-MT, TL\*, RecC\* (1963-2019-SISIMP2022)



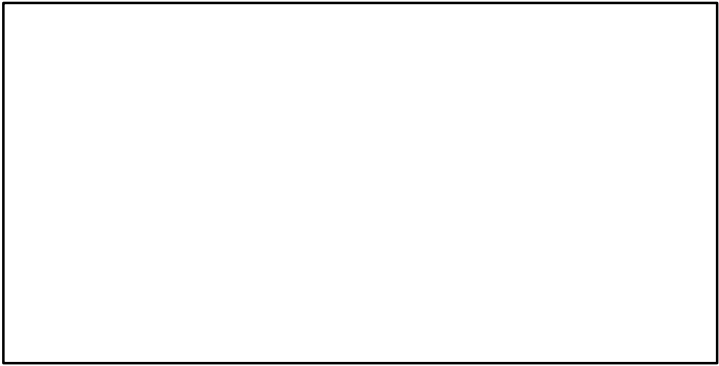
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



## Gag Southern Atlantic coast [GAGSATLC]

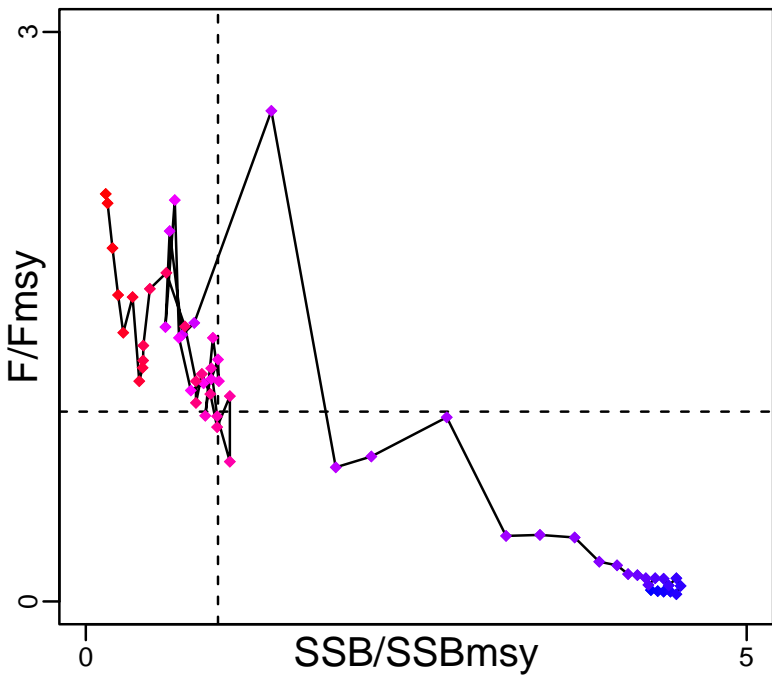
Metadata	
<b>Scientific Name</b>	Mycteroperca microlepis
<b>Current Assess ID</b>	SEFSC-GAGSATLC-1962-2019-SISIMP2021-2
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2005, 2012, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2005	6475
<b>SSBmsy</b>	SSBmsy-MT	2019	1560
<b>Fmsy</b>	Fmsy-1/yr	2019	0.368
<b>ERmsy</b>	ERmsy-ratio	2005	0.124
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2019	662
<b>M</b>	M-1/yr	2005	0.14
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2019	1170
<b>Flim</b>	Flim-1/yr	2019	0.368
<b>ERlim</b>	-	-	-

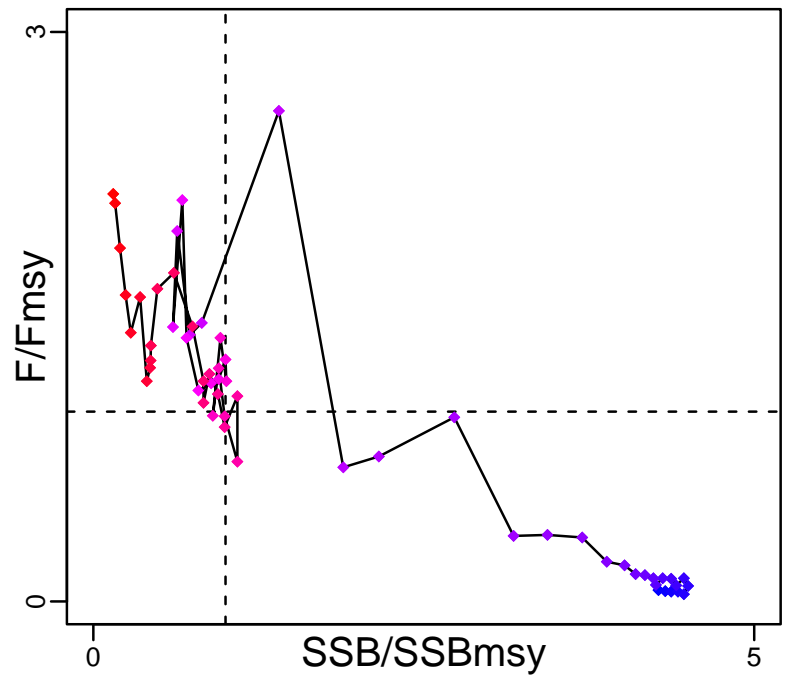
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2012	2620	-	1+
<b>SSB</b>	SSB-MT	2019	235	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	283,000	-	1
<b>F</b>	F-1/yr	2019	0.79	-	-
<b>ER</b>	ER-calc-ratio	2012	0.094	-	-
<b>TC</b>	TC-MT	2019	247		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT	2005	0.646		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2019	0.151		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2019	2.147		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Gag Southern Atlantic coast [GAGSATLC]

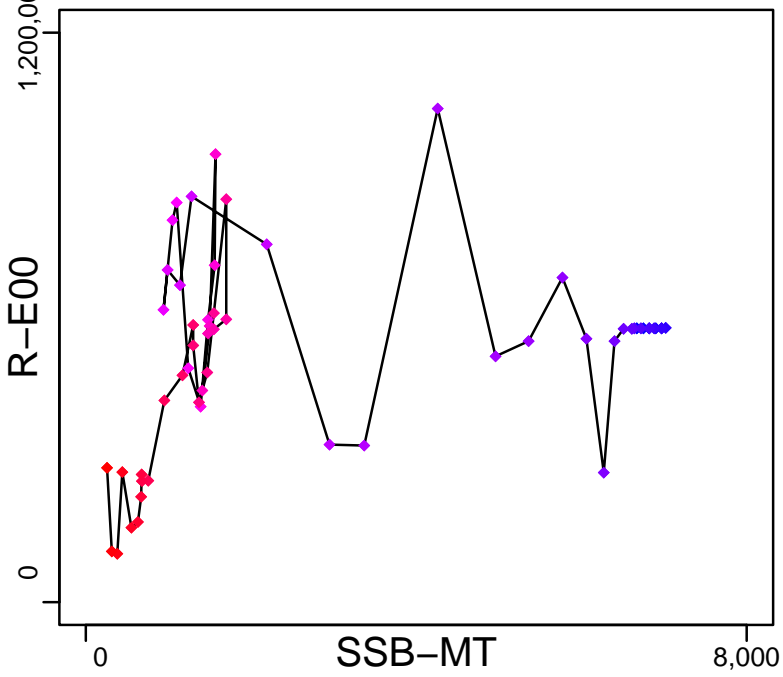
Kobe MSYpref (1962–2019–SISIMP2021–2)



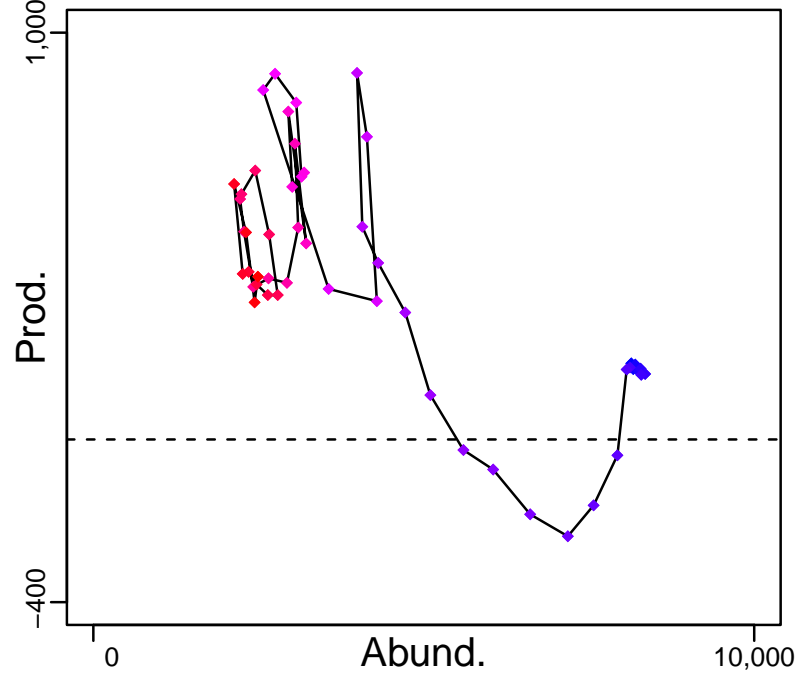
Kobe MGTpref (1962–2019–SISIMP2021–2)



Spawner Recruit (1962–2019–SISIMP2021–2)



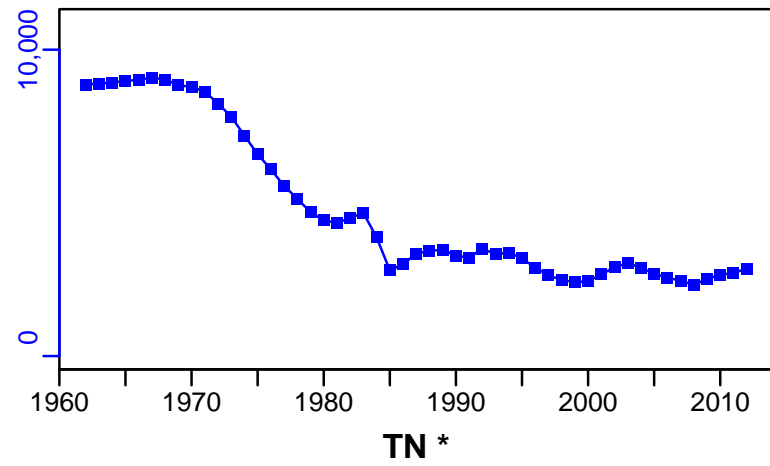
Production (1962–2012–SISIMP2016)



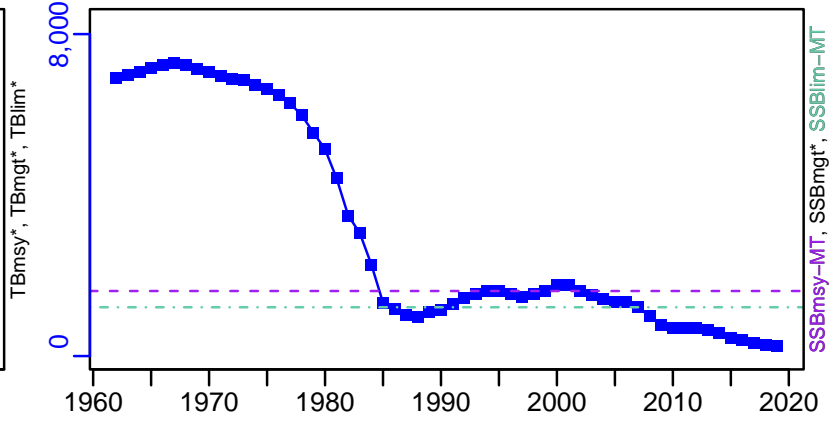
◆ Start Year ◆ End Year \* No Data

# Gag Southern Atlantic coast [GAGSATLC]

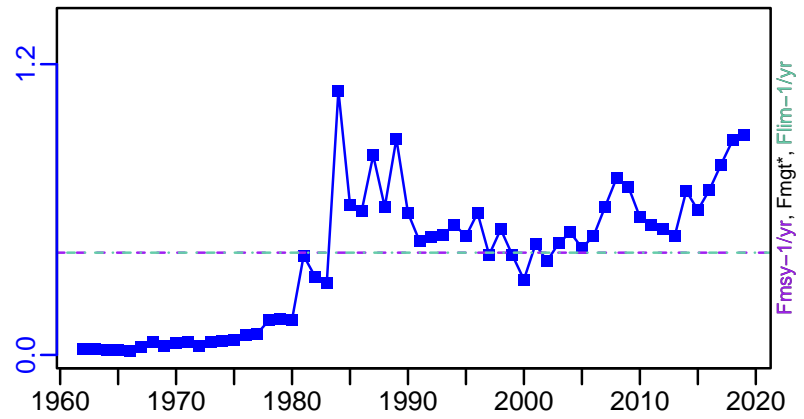
TB-MT (1962–2012–SISIMP2016)



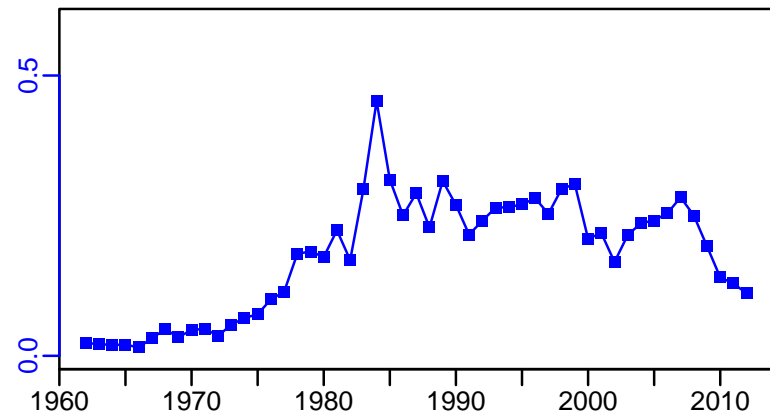
SSB-MT (1962–2019–SISIMP2021–2)



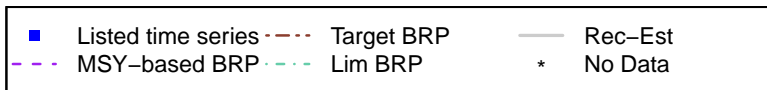
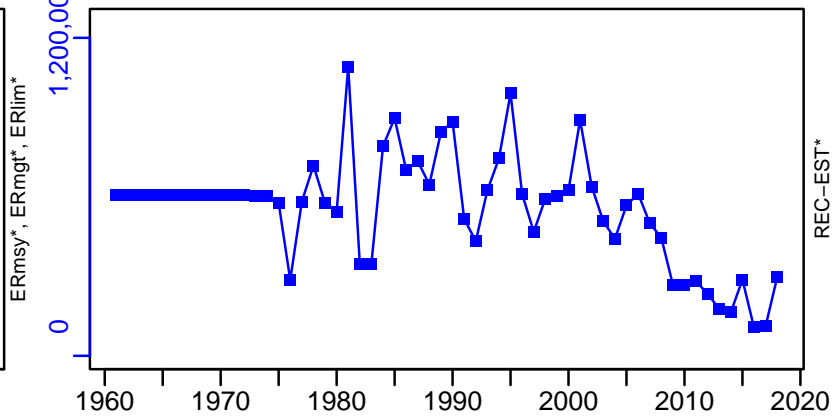
F-1/yr (1962–2019–SISIMP2021–2)



ER-calc-ratio (1962–2012–SISIMP2016)



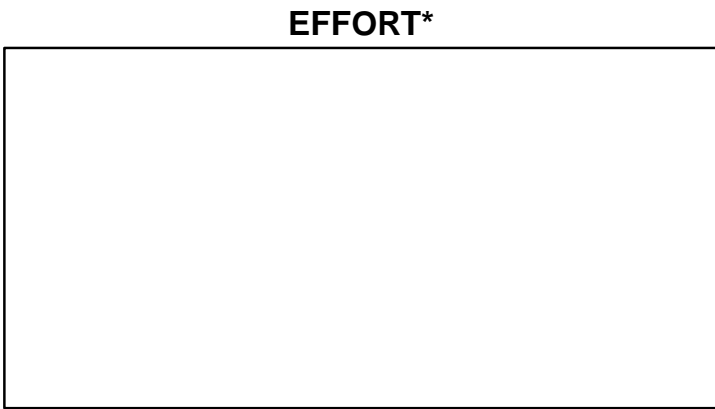
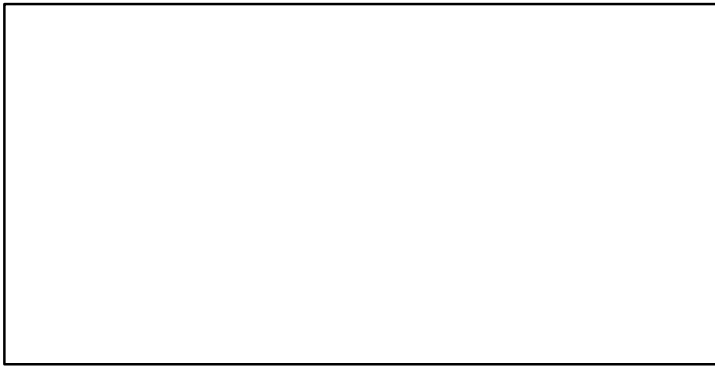
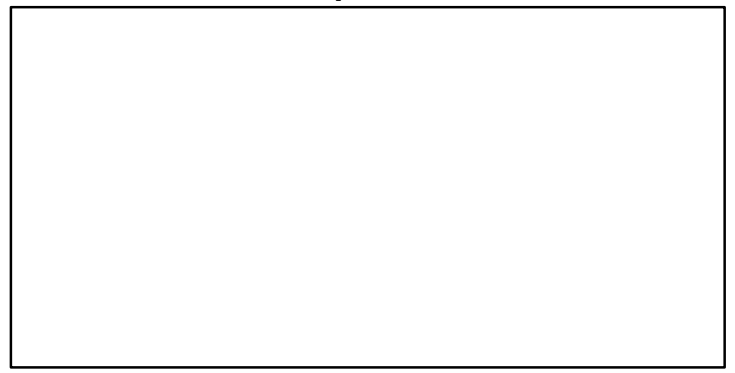
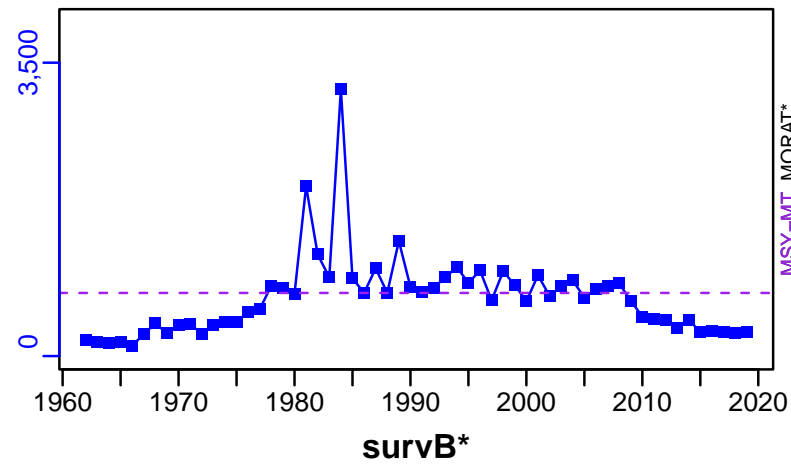
R-E00 (1962–2019–SISIMP2021–2)



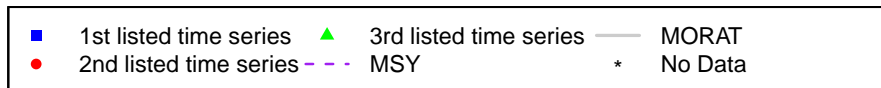
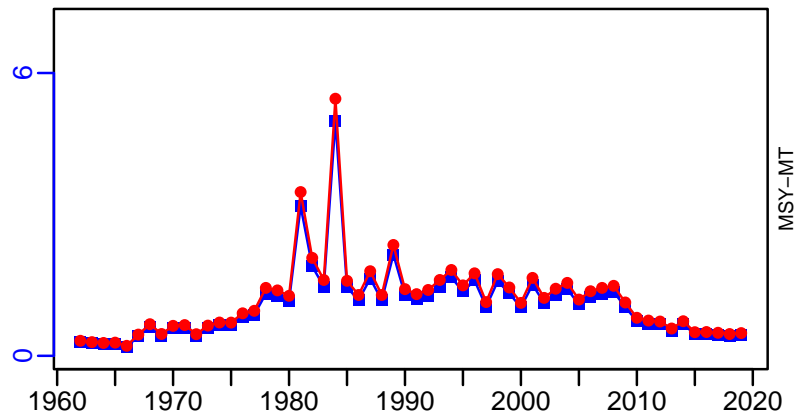
# Gag Southern Atlantic coast [GAGSATLC]

TC-MT, TL\*, RecC\* (1962-2019-SISIMP2021-2)

TAC\*, Cpair\*, Cadv\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1962-2019-SISIMP2021-2)





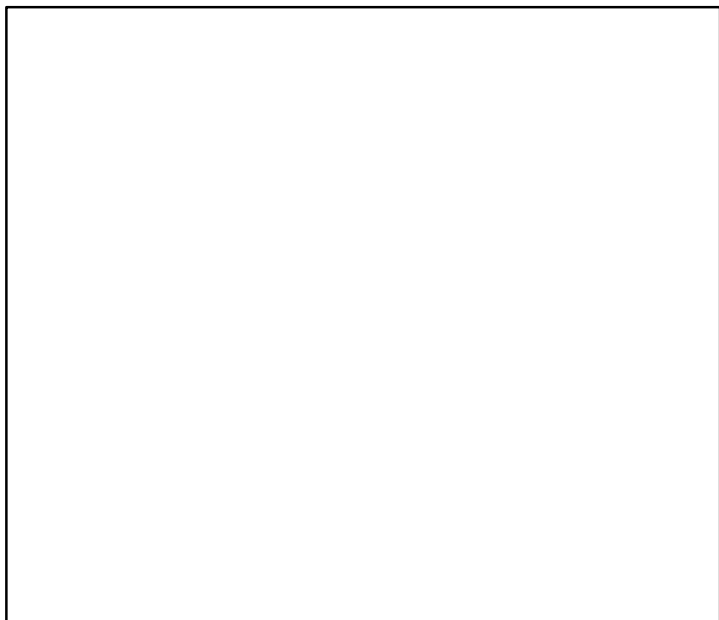
## Grey grunt Central West Africa Gabon-Angola [GGRUNTCWAGAB-AGO]

Metadata	
<b>Scientific Name</b>	Pomadasys spp
<b>Current Assess ID</b>	FAO-DR-GGRUNTCWAGAB-AGO-1995-2007-CHING
<b>Area</b>	Central West Africa Gabon-Angola
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

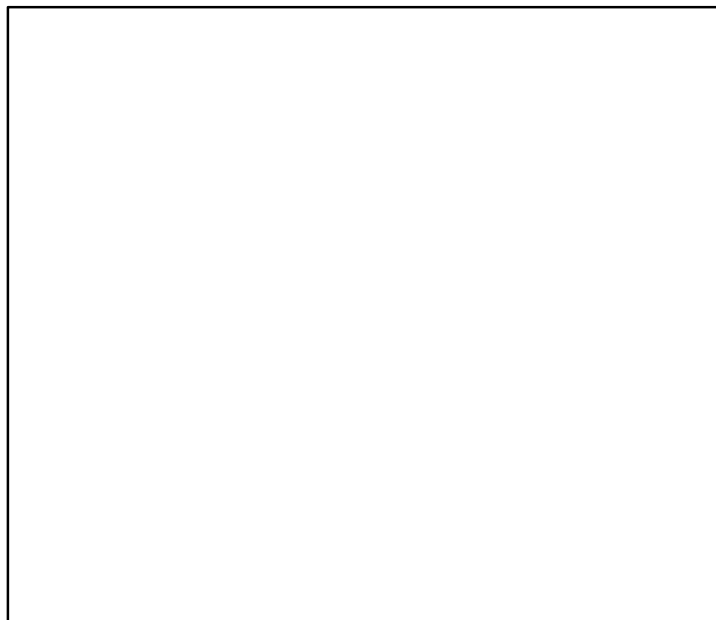
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	19	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	912		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



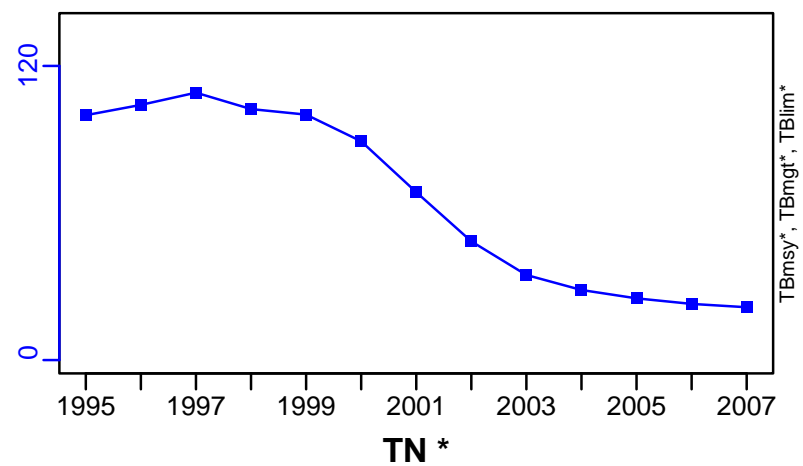
**Production\***



◆ Start Year ◆ End Year \* No Data

# Grey grunt Central West Africa Gabon–Angola [GGRUNTCWAGAB–AGO]

TB-index (1995–2007–CHING)



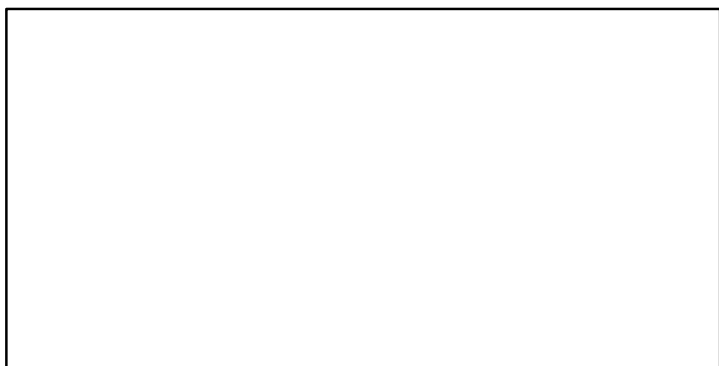
SSB\*



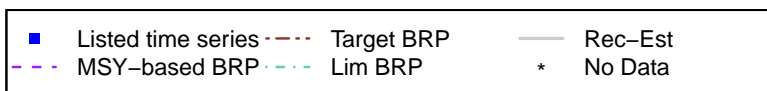
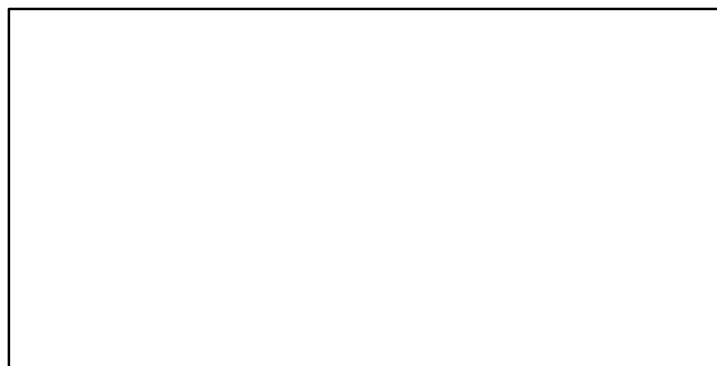
F\*



ER\*

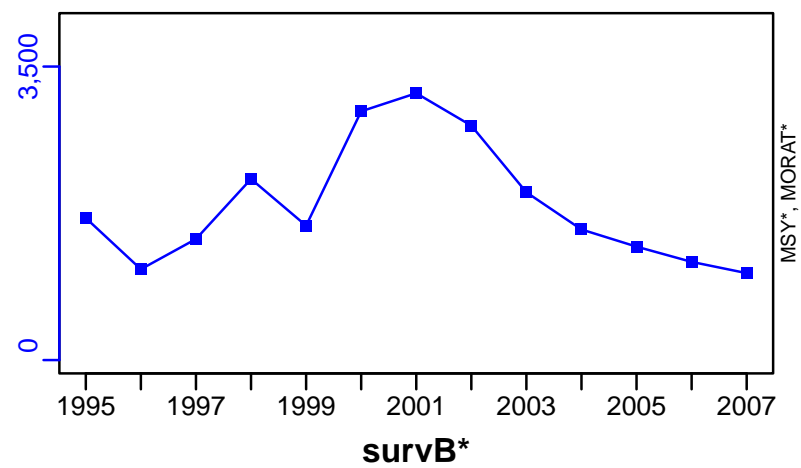


Recruits\*

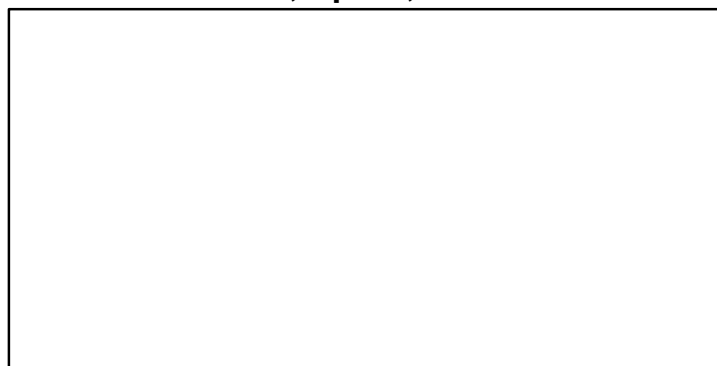


# Grey grunt Central West Africa Gabon–Angola [GGRUNTCWAGAB–AGO]

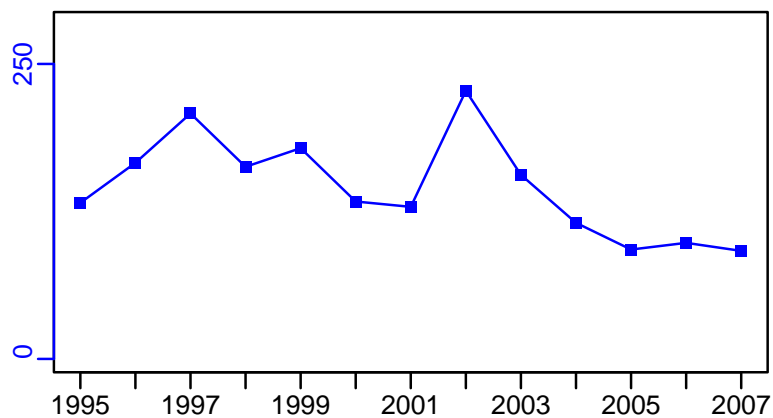
TC–MT, TL\*, RecC\* (1995–2007–CHING)



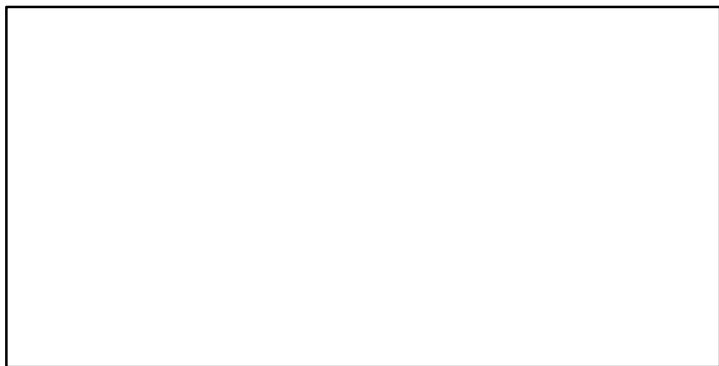
TAC\*, Cpair\*, Cadv\*



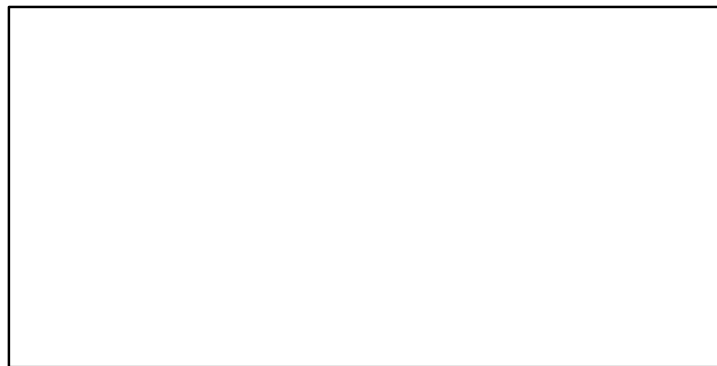
CPUE–kg/day (1995–2007–CHING)



EFFORT\*



CdivMSY\*



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

## Grey grunt Central West Africa Guinea-Liberia [GGRUNTCWAGIN-LBR]

Metadata	
<b>Scientific Name</b>	Pomadasys spp
<b>Current Assess ID</b>	FAO-DR-GGRUNTCWAGIN-LBR-1994-2007-CHING
<b>Area</b>	Central West Africa Guinea-Liberia
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	1150	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	2020		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

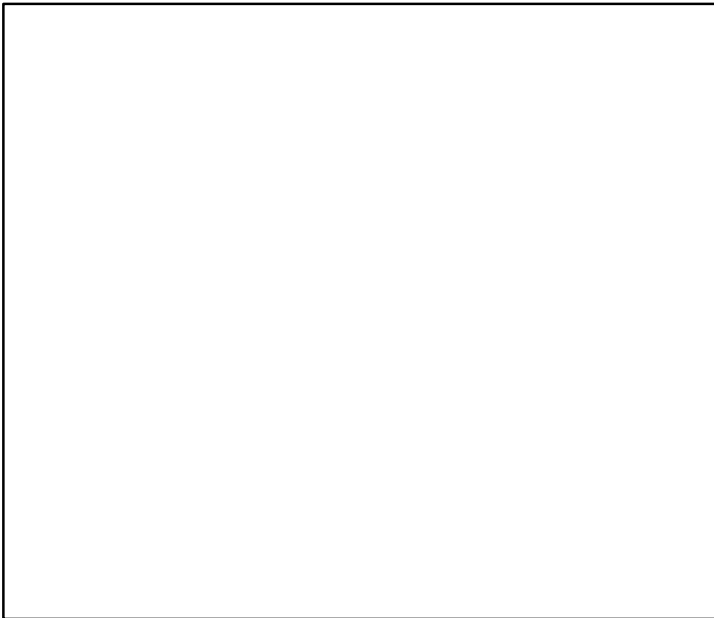
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***

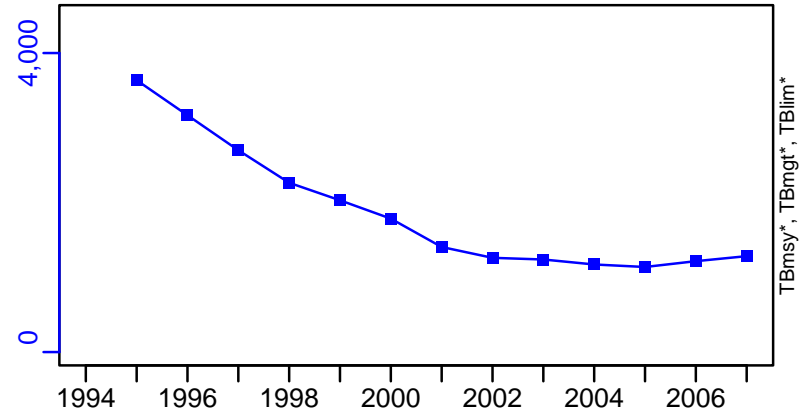


◆ Start Year ◆ End Year \* No Data

# Grey grunt Central West Africa Guinea–Liberia [GGRUNTCWAGIN–LBR]

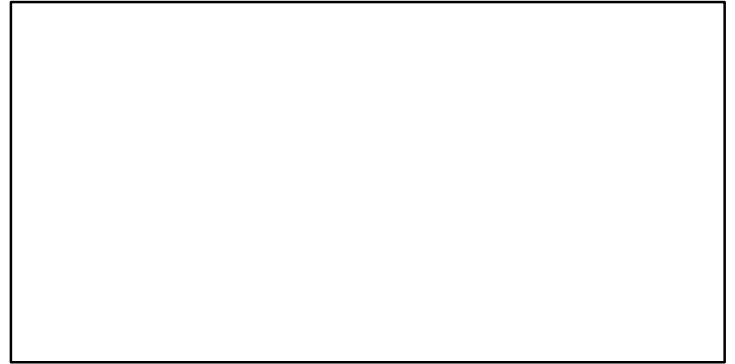
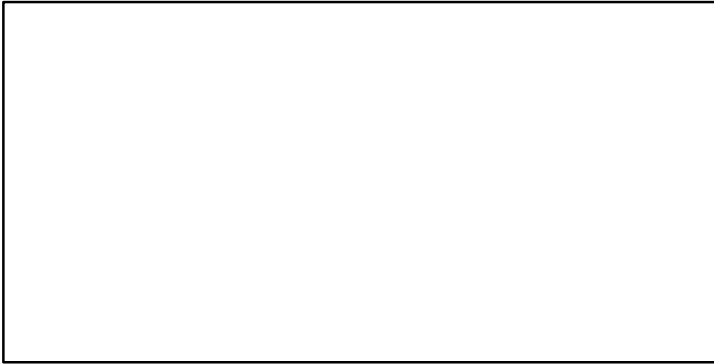
TB–index (1994–2007–CHING)

SSB\*



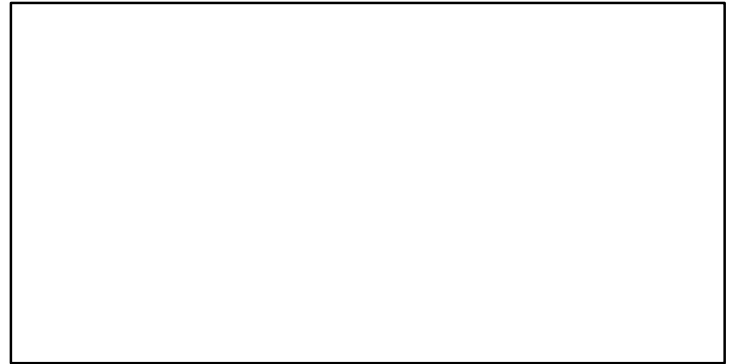
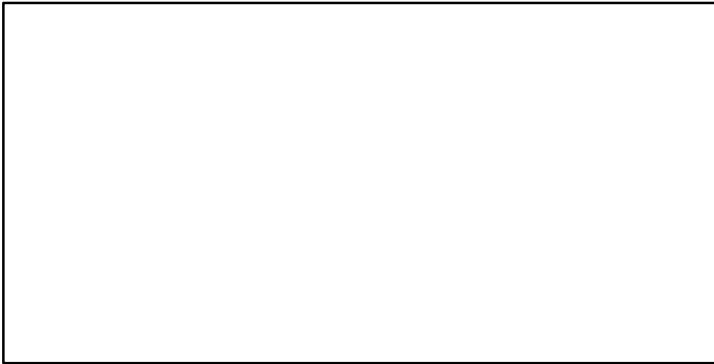
TN \*

F\*



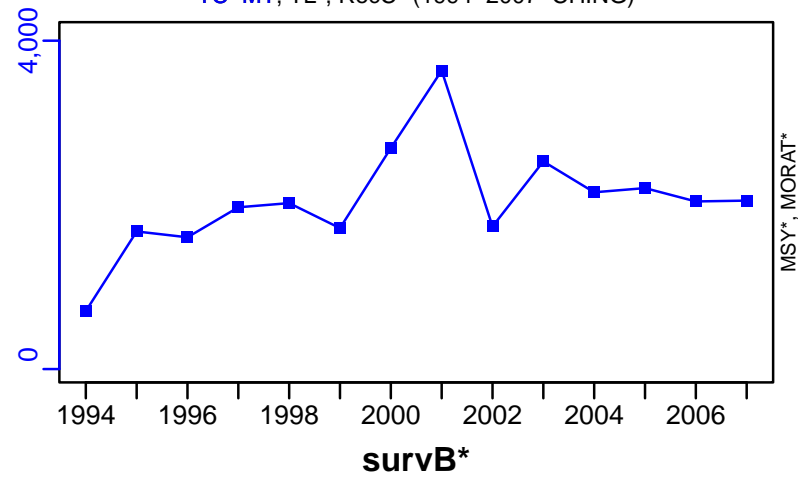
ER\*

Recruits\*

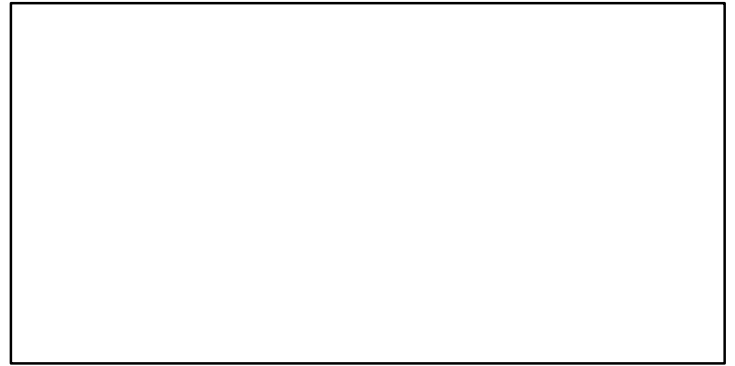


# Grey grunt Central West Africa Guinea–Liberia [GGRUNTCWAGIN–LBR]

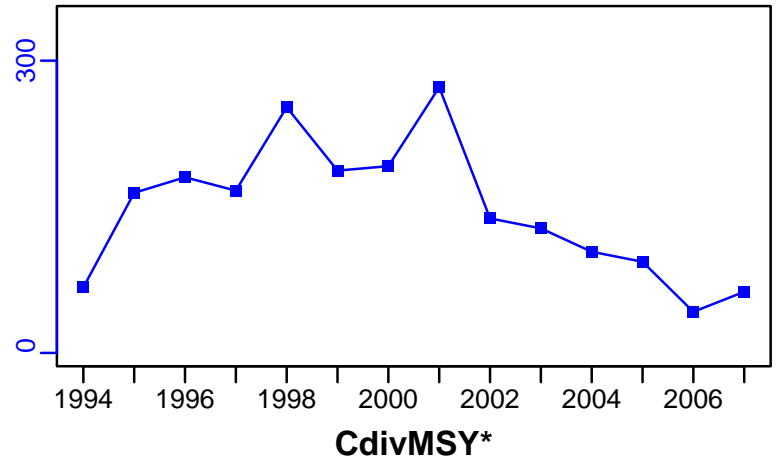
TC–MT, TL\*, RecC\* (1994–2007–CHING)



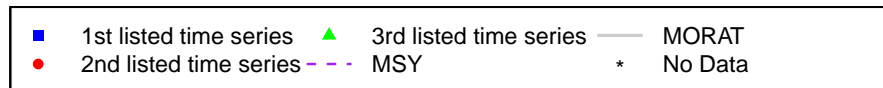
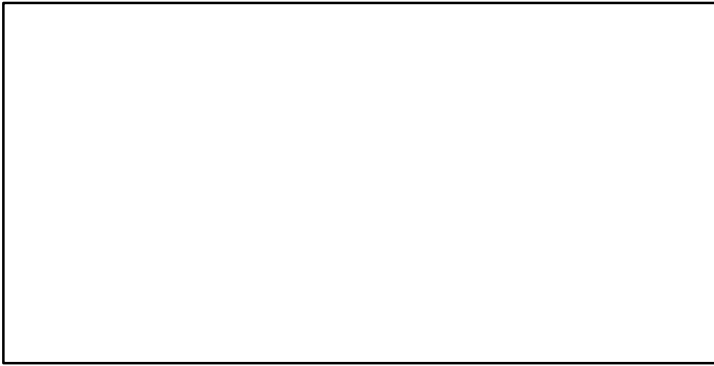
TAC\*, Cpair\*, Cadv\*



CPUE–MT/day (1994–2007–CHING)



EFFORT\*



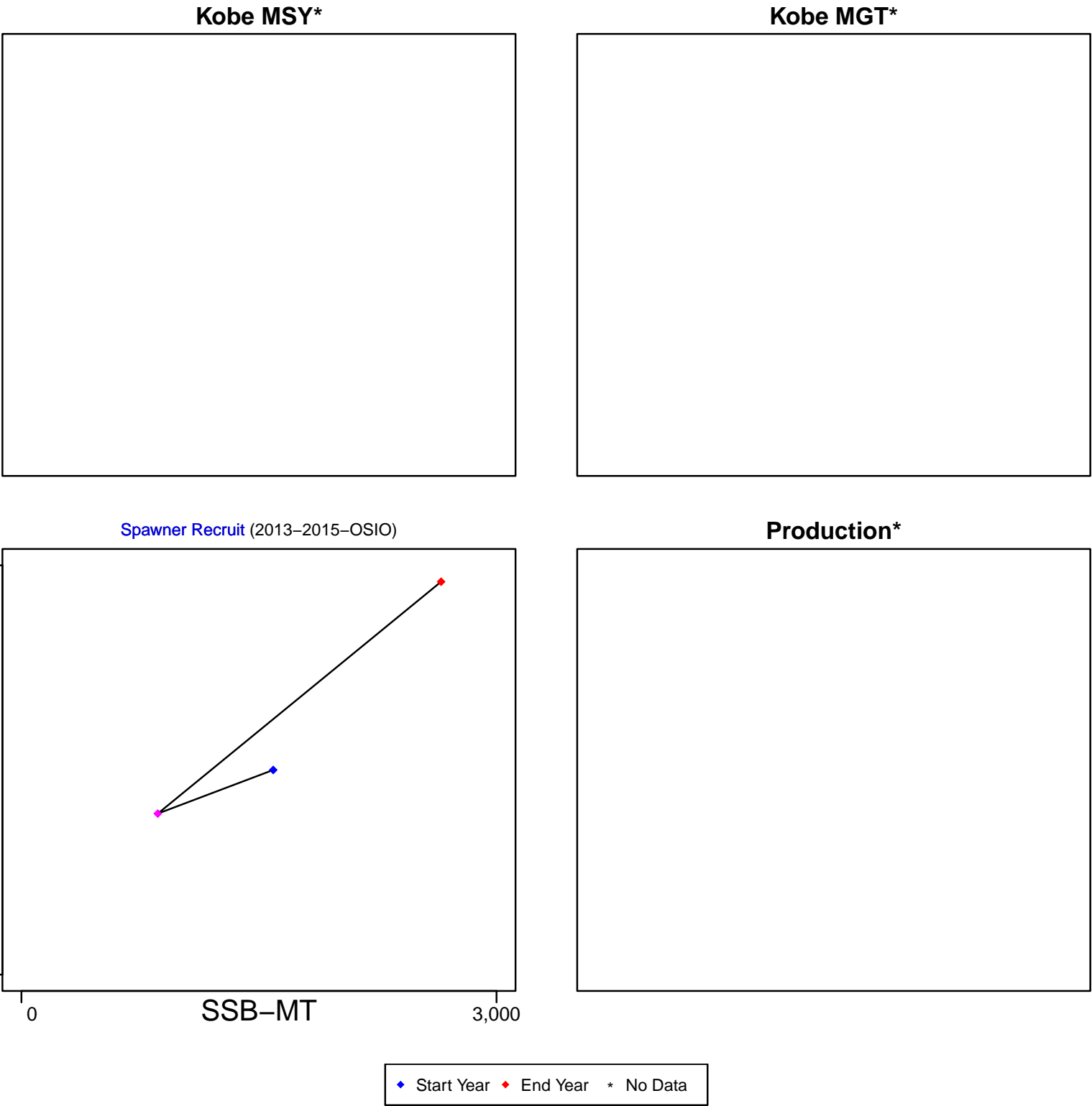


## Gilthead seabream Gulf of Lions [GHBRMGSA7]

Metadata	
<b>Scientific Name</b>	Sparus aurata
<b>Current Assess ID</b>	STECF-GHBRMGSA7-2013-2015-OSIO
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.19
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	2015	2650	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$5.76 \times 10^{10}$	-	-
<b>F</b>	F-1/yr	2015	0.45	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	1700		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	2.368		
<b>ER/ERmgt</b>	-	-	-		

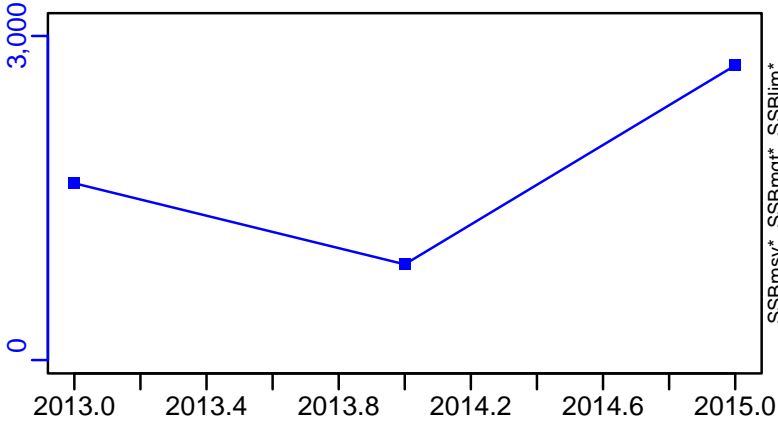


Gilthead seabream Gulf of Lions [GHBRMGSA7]

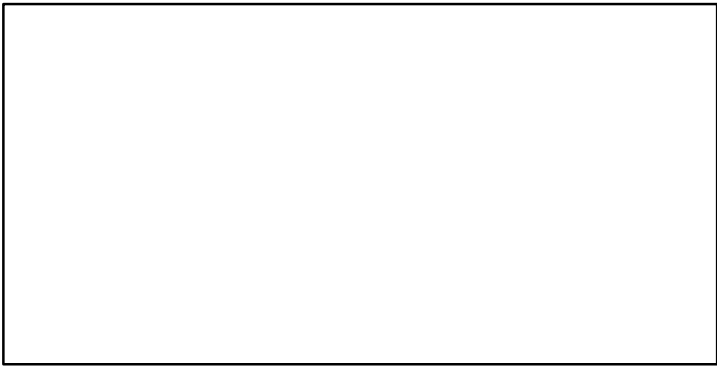
TB\*



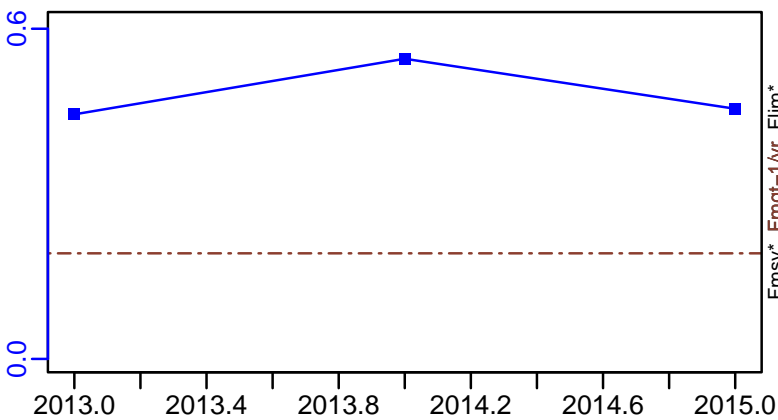
SSB-MT (2013–2015–OSIO)



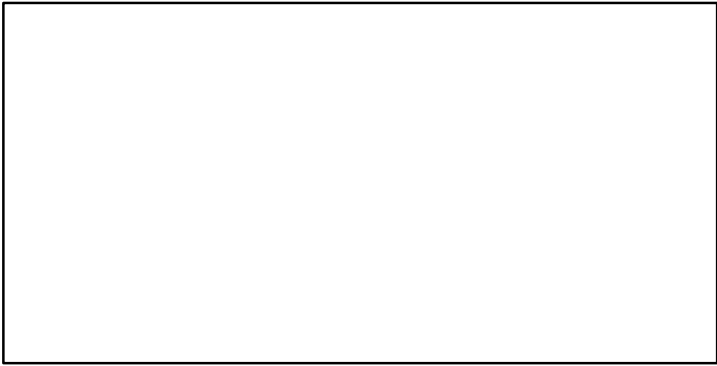
TN \*



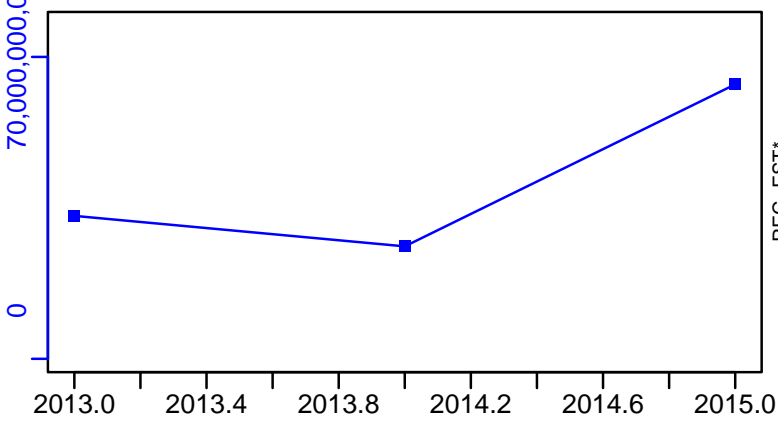
F-1/yr (2013–2015–OSIO)



ER\*

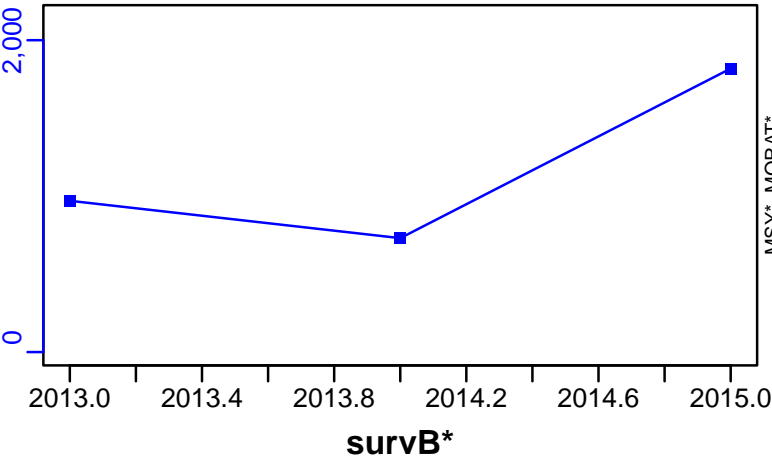


R-E00 (2013–2015–OSIO)



Gilthead seabream Gulf of Lions [GHBRMGSA7]

TL-MT, TC\*, RecC\* (2013-2015-OSIO)



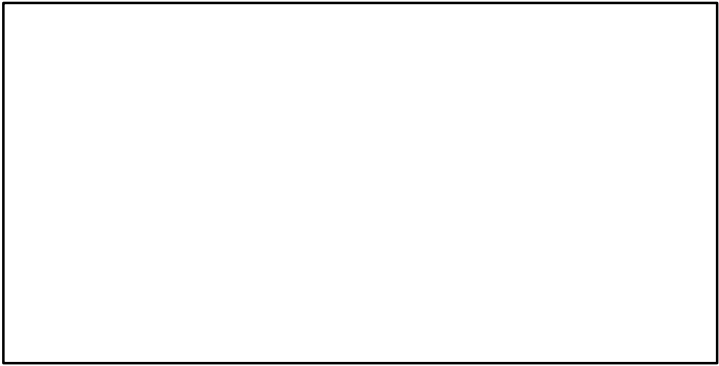
TAC\*, Cpair\*, Cadv\*



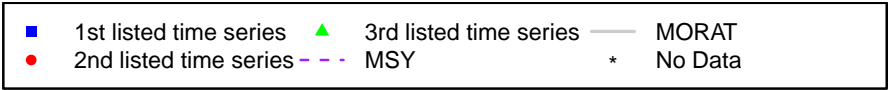
CPUE\*



EFFORT\*



CdivMSY\*



## Green jobfish Main Hawaiian Islands [GJOBMHI]

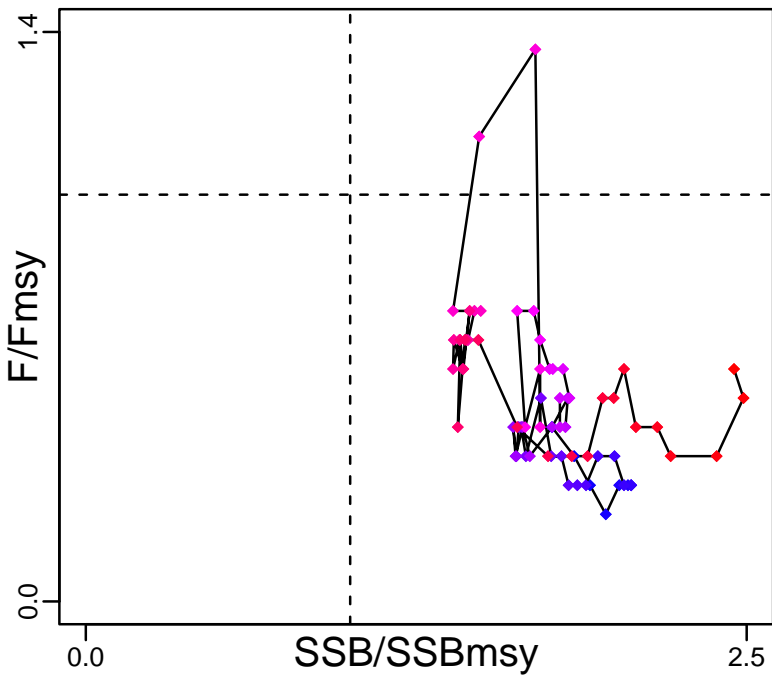
Metadata	
<b>Scientific Name</b>	Aprion virescens
<b>Current Assess ID</b>	PIFSC-GJOBMHI-1948-2018-SISIMP2021-2
<b>Area</b>	Main Hawaiian Islands
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Pacific Fisheries Science Center
<b>Asmts in RAM</b>	2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2018	334
<b>Fmsy</b>	Fmsy-1/yr	2018	0.14
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2018	334
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	301
<b>Flim</b>	Flim-1/yr	2018	0.14
<b>ERlim</b>	-	-	-

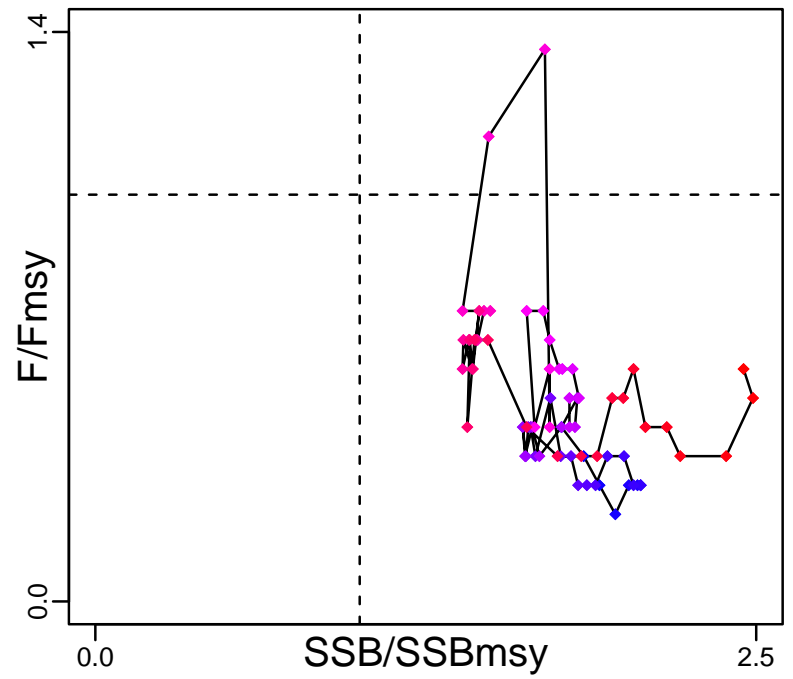
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2018	819	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	74,000	-	0
<b>F</b>	F-1/yr	2018	0.08	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2018	125		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2018	2.452		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	0.571		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Green jobfish Main Hawaiian Islands [GJOBMHI]

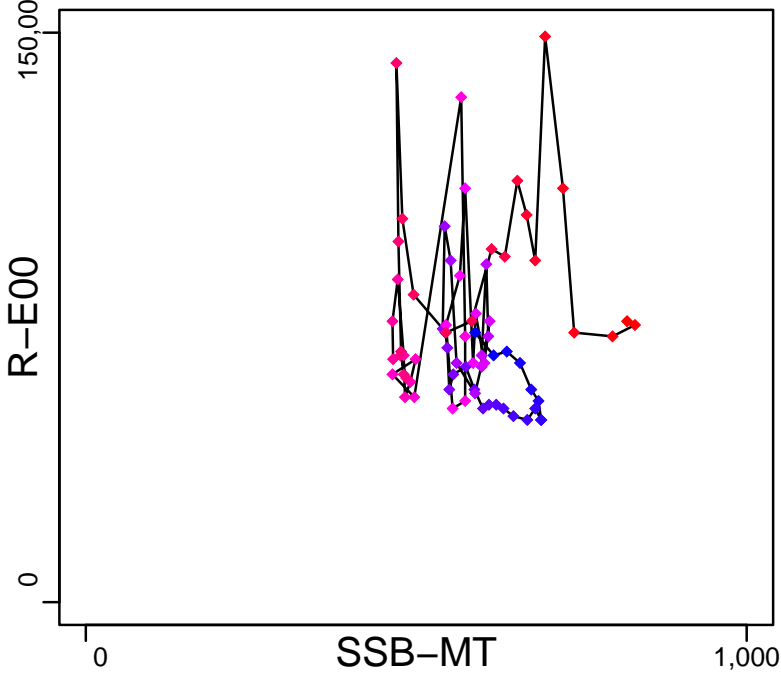
Kobe MSYpref (1948–2018–SISIMP2021–2)



Kobe MGTpref (1948–2018–SISIMP2021–2)



Spawner Recruit (1948–2018–SISIMP2021–2)



Production\*



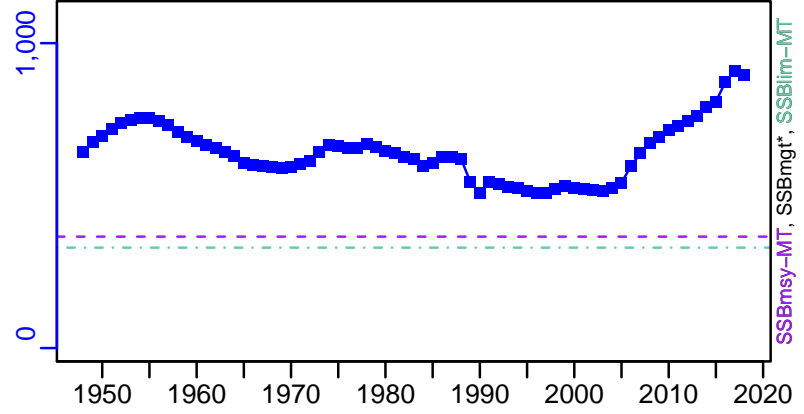
◆ Start Year ◆ End Year \* No Data

# Green jobfish Main Hawaiian Islands [GJOBMHI]

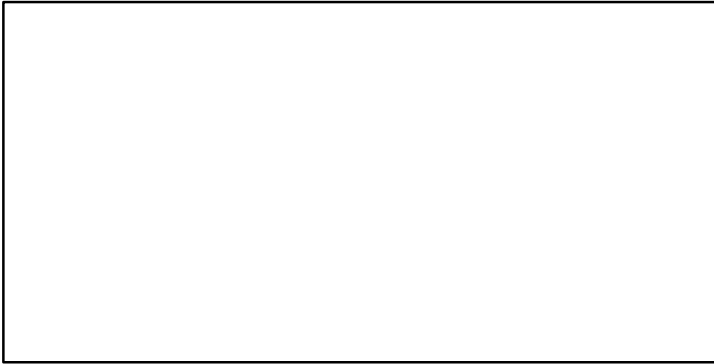
TB\*



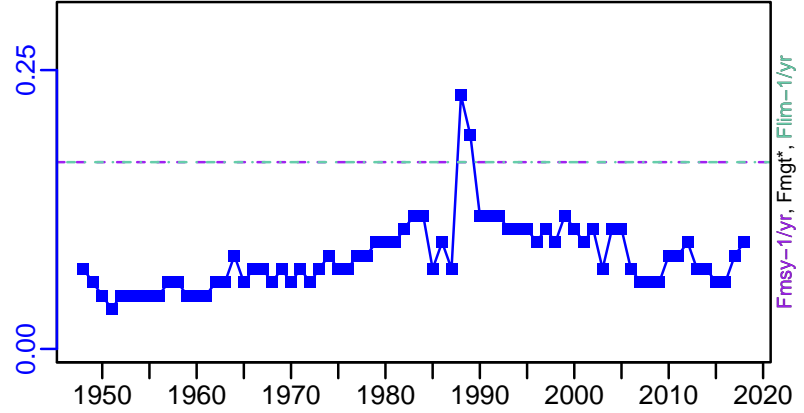
SSB-MT (1948–2018–SISIMP2021–2)



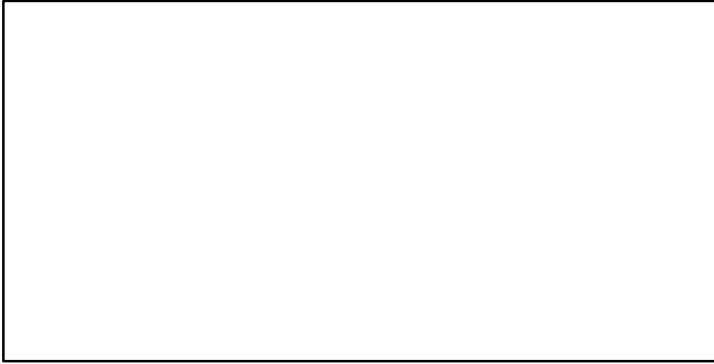
TN \*



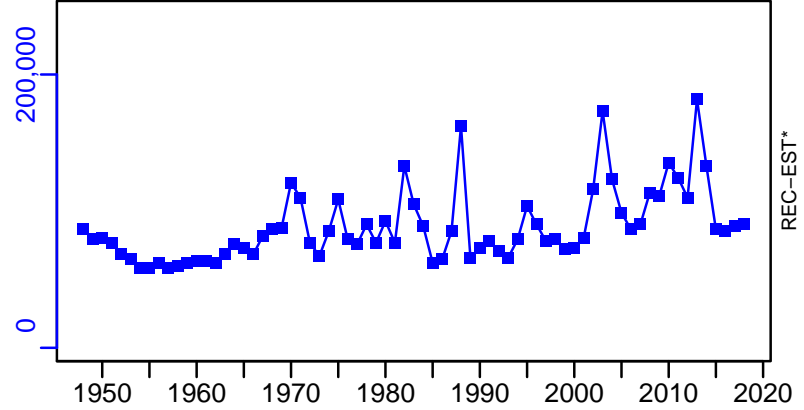
F-1/yr (1948–2018–SISIMP2021–2)



ER\*



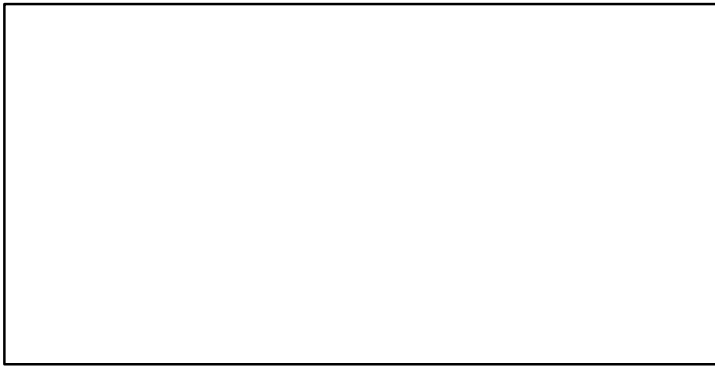
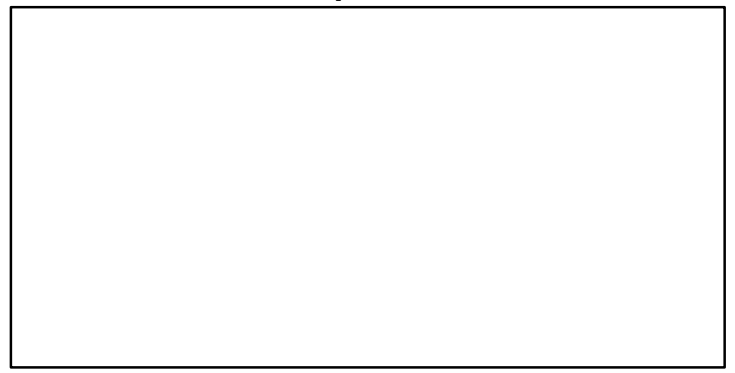
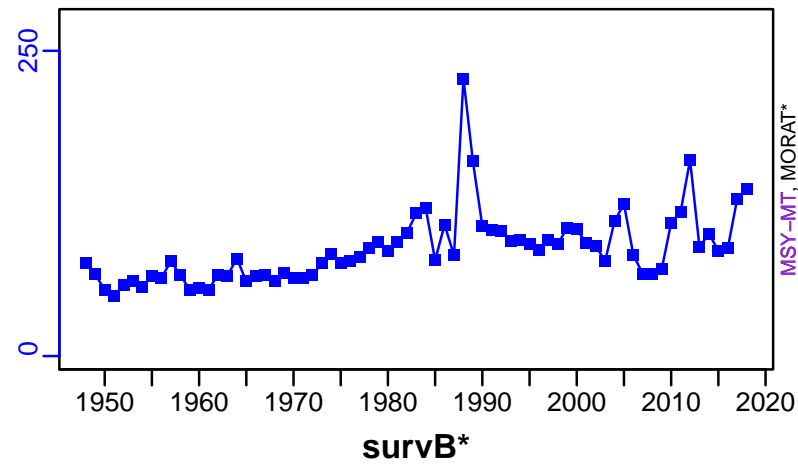
R-E00 (1948–2018–SISIMP2021–2)



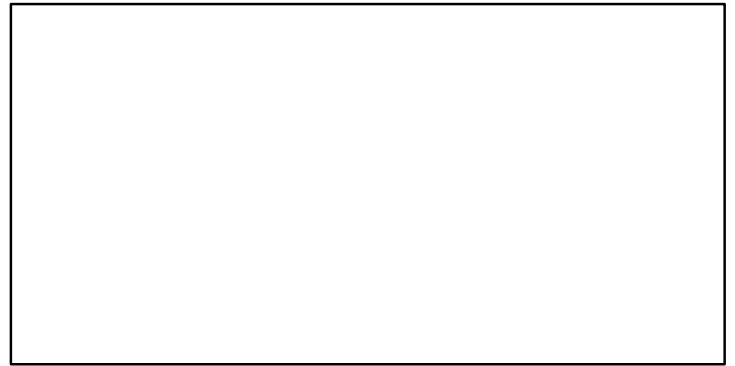
# Green jobfish Main Hawaiian Islands [GJOBMHI]

TC-MT, TL\*, RecC\* (1948-2018-SISIMP2021-2)

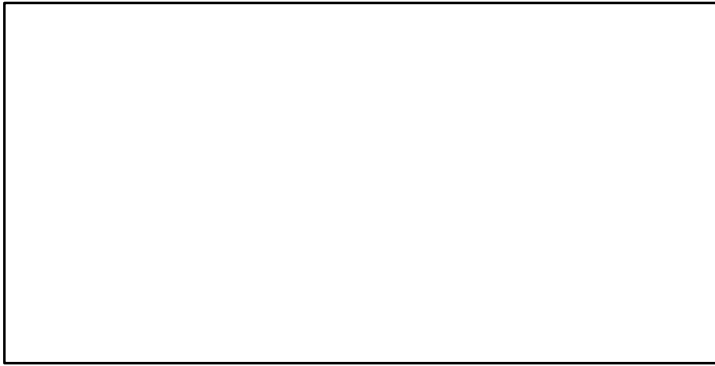
TAC\*, Cpair\*, Cadv\*



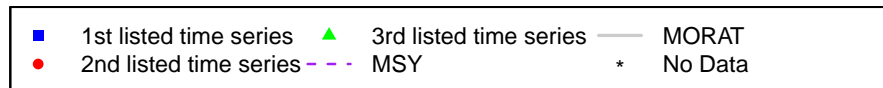
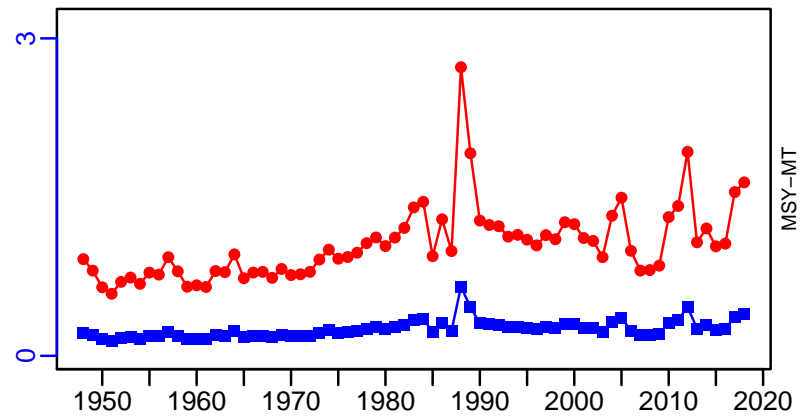
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1948-2018-SISIMP2021-2)





## Goliath grouper Southern Atlantic coast and Gulf of Mexico [GLGROUPTSATLCGM]

Metadata	
<b>Scientific Name</b>	Epinephelus itajara
<b>Current Assess ID</b>	SEFSC-GLGROUPTSATLCGM-1950-2009-SISIMP2016
<b>Area</b>	Southern Atlantic coast and Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2009

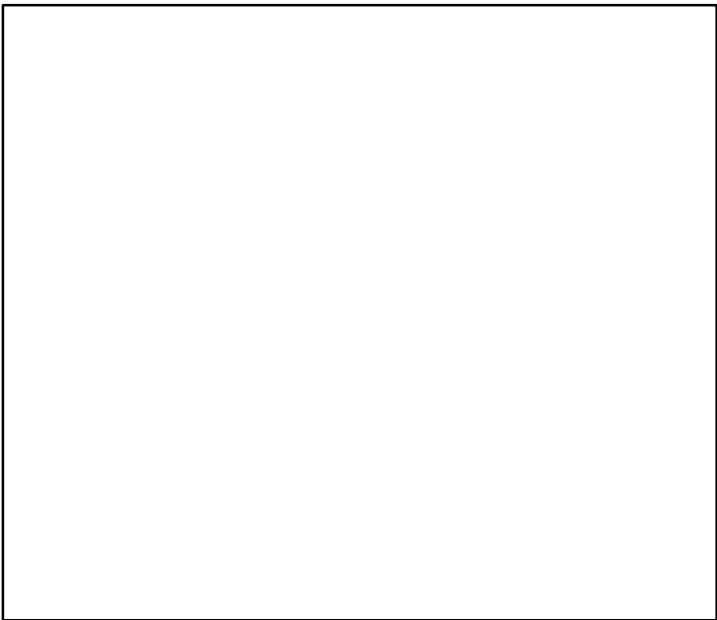
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2009	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

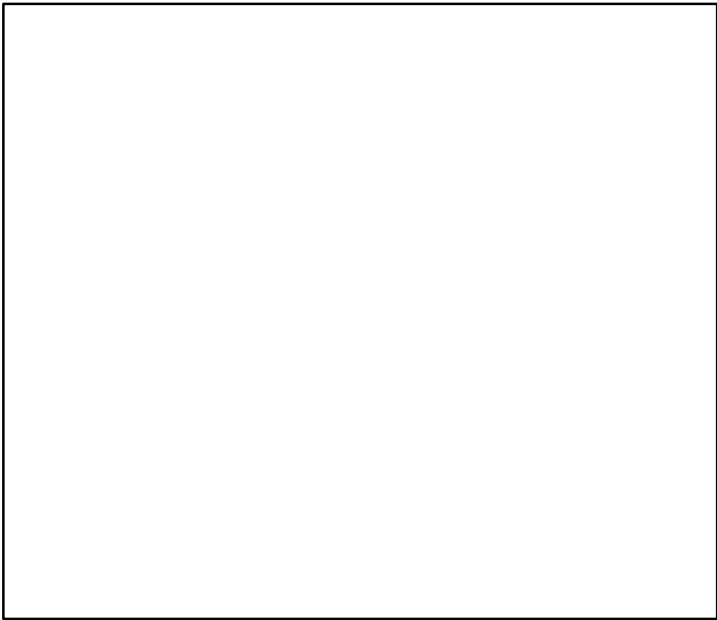
Kobe MSY\*



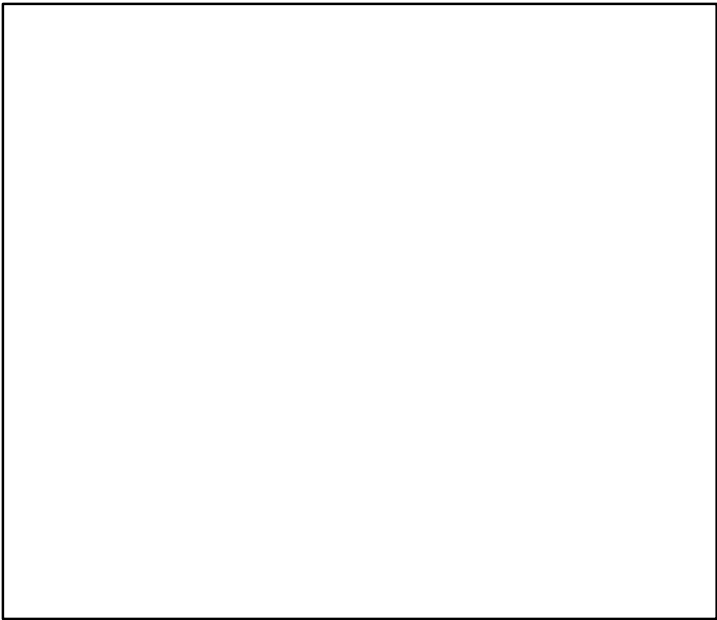
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*

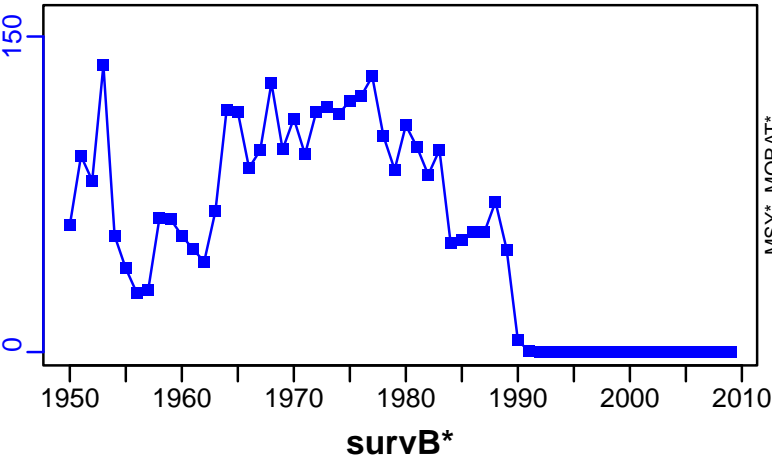


Recruits\*



Goliath grouper Southern Atlantic coast and Gulf of Mexico [GLGROUPTSATLCGM]

TC-MT, TL\*, RecC\* (1950–2009–SISIMP2016)



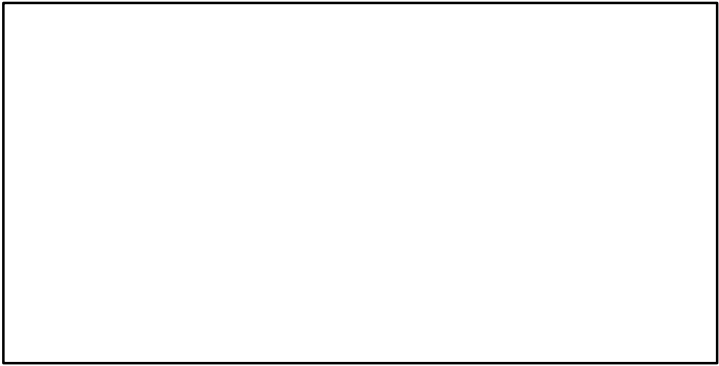
TAC\*, Cpair\*, Cadv\*



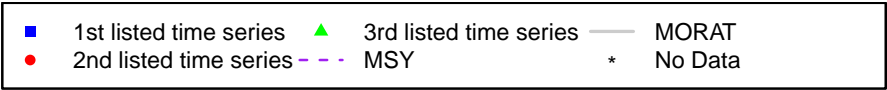
CPUE\*



EFFORT\*



CdivMSY\*



## Gray snapper Gulf of Mexico [GRSNAPGM]

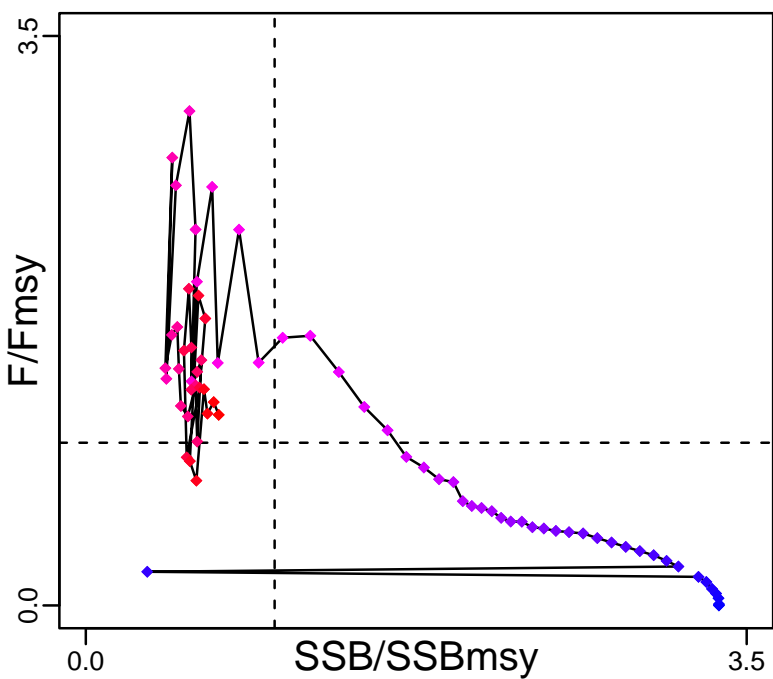
Metadata	
<b>Scientific Name</b>	Lutjanus griseus
<b>Current Assess ID</b>	SEFSC-GRSNAPGM-1945-2015-SISIMP2021
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2015	6621
<b>Fmsy</b>	Fmsy-1/yr	2015	0.115
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.115
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2015	1100
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2015	6621
<b>Flim</b>	Flim-1/yr	2015	0.115
<b>ERlim</b>	-	-	-

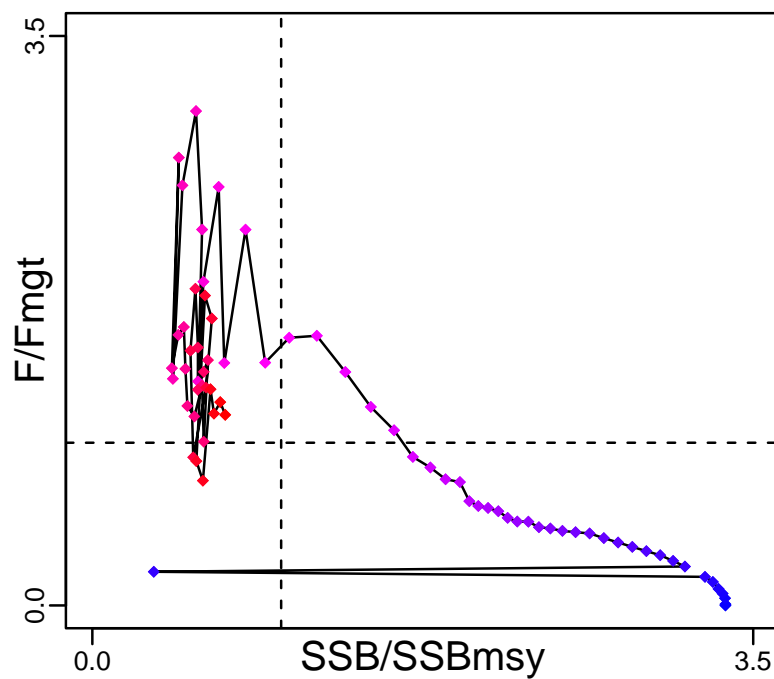
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2015	4660	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	10,223,200	-	0
<b>F</b>	F-1/yr	2015	0.135	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2015	882		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2015	0.704		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	1.171		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	1.171		
<b>ER/ERmgt</b>	-	-	-		

# Gray snapper Gulf of Mexico [GRSNAPGM]

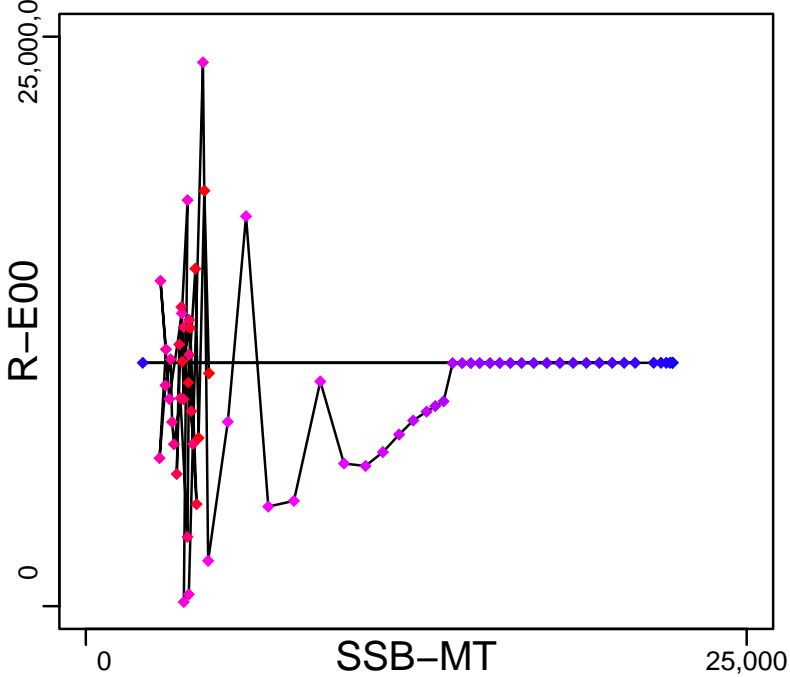
Kobe MSYpref (1945–2015–SISIMP2021)



Kobe MGTpref (1945–2015–SISIMP2021)



Spawner Recruit (1945–2015–SISIMP2021)



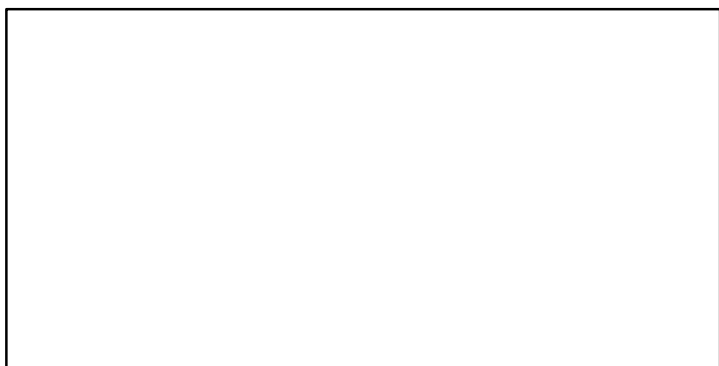
Production\*



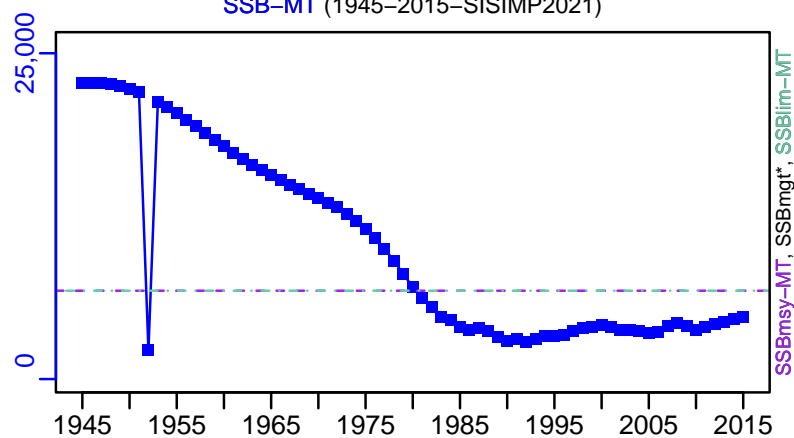
◆ Start Year ◆ End Year \* No Data

# Gray snapper Gulf of Mexico [GRSNAPGM]

TB\*



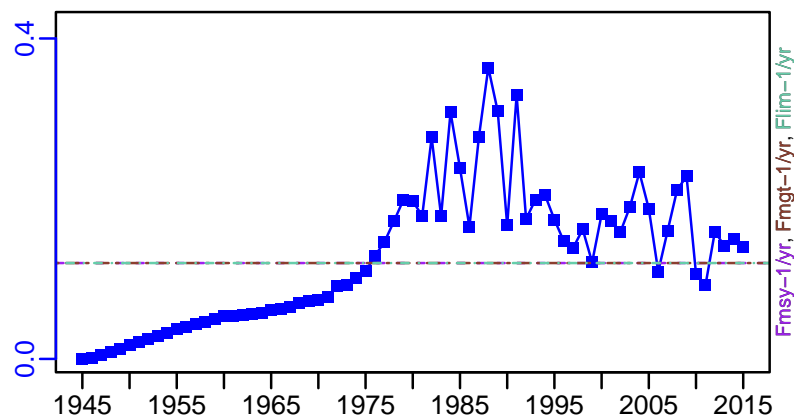
SSB-MT (1945–2015–SISIMP2021)



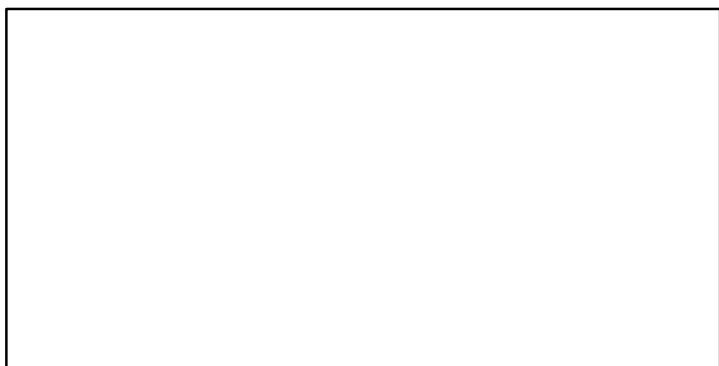
TN \*



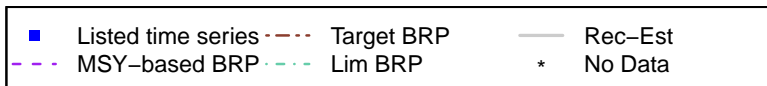
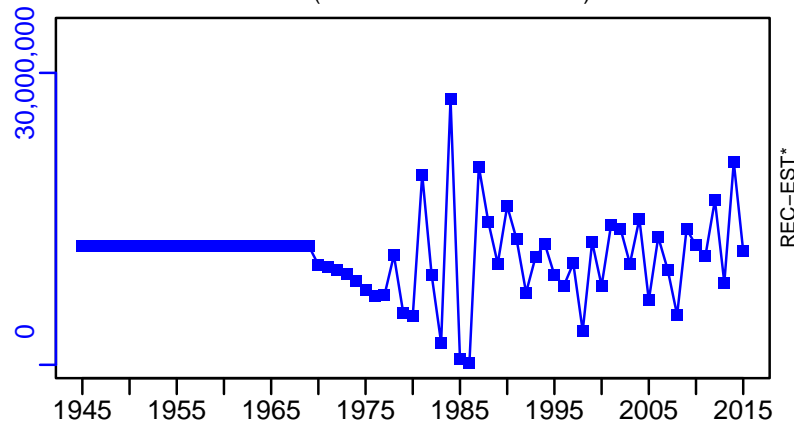
F-1/yr (1945–2015–SISIMP2021)



ER\*

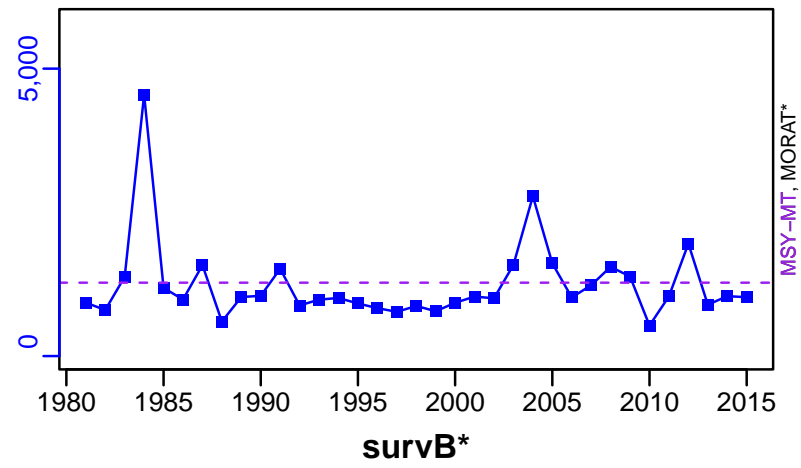


R-E00 (1945–2015–SISIMP2021)

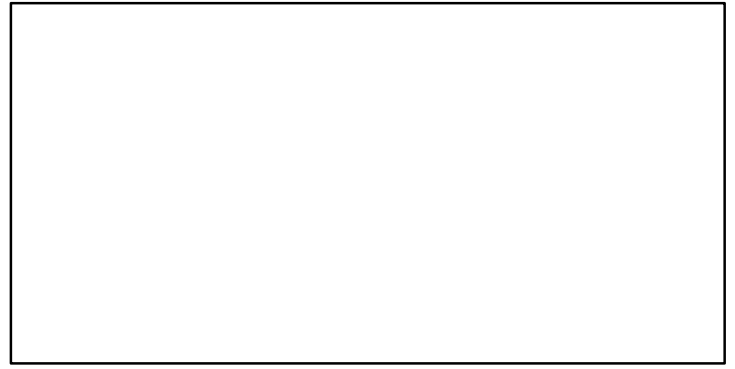


# Gray snapper Gulf of Mexico [GRSNAPGM]

TC-MT, TL\*, RecC\* (1945–2015–SISIMP2021)



TAC\*, Cpair\*, Cadv\*



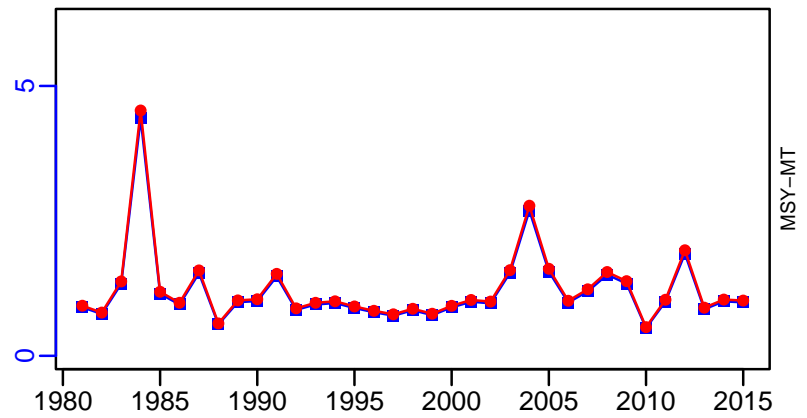
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1945–2015–SISIMP2021)



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

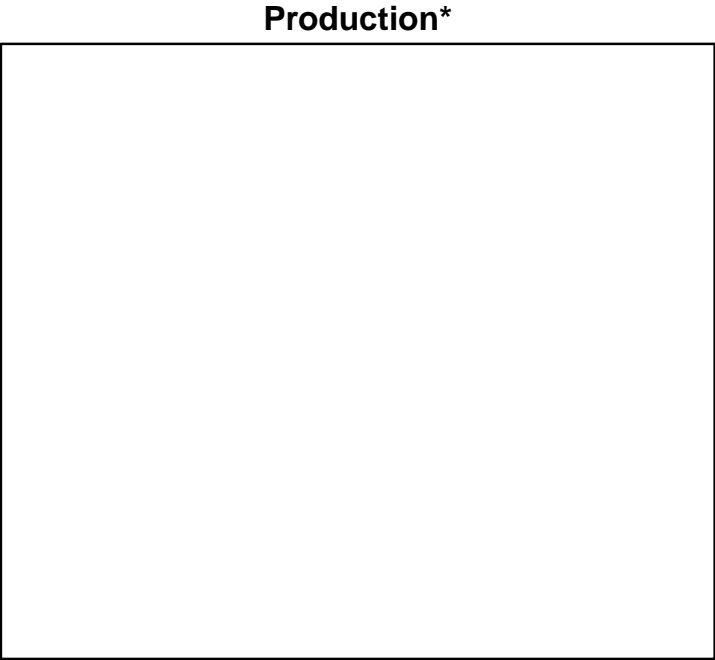
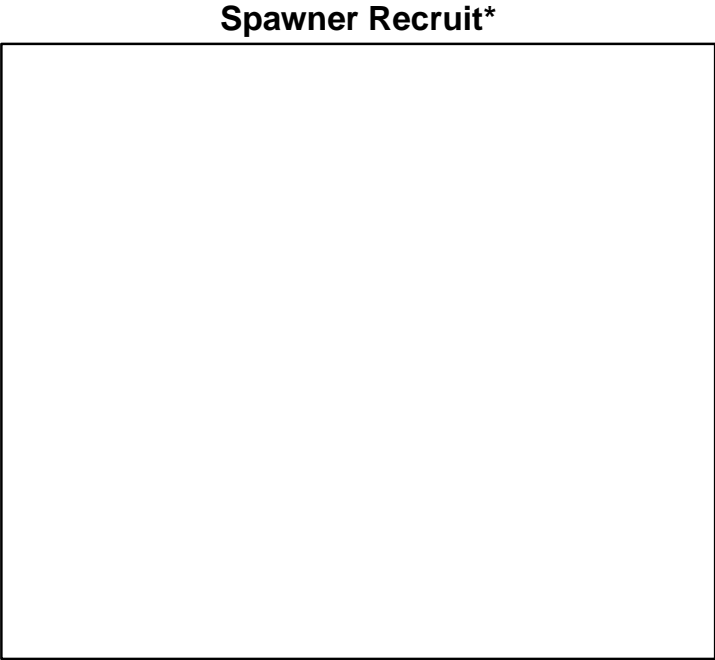
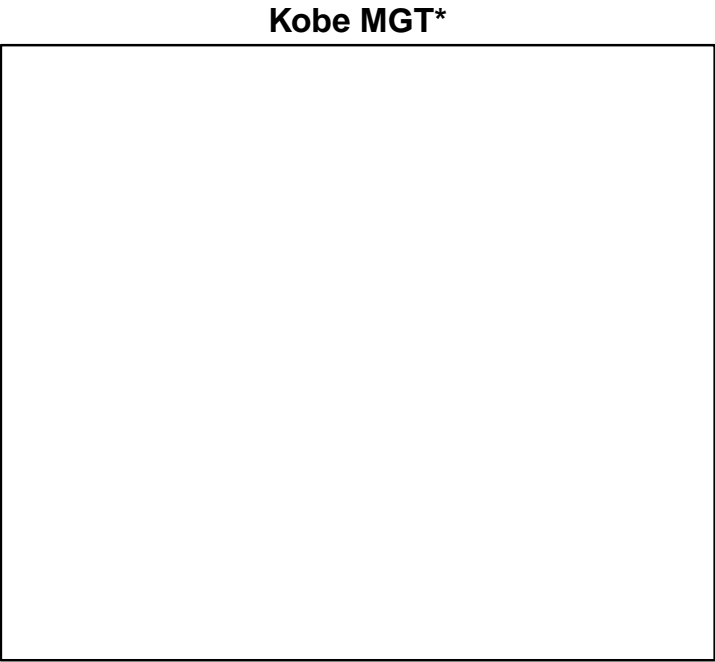
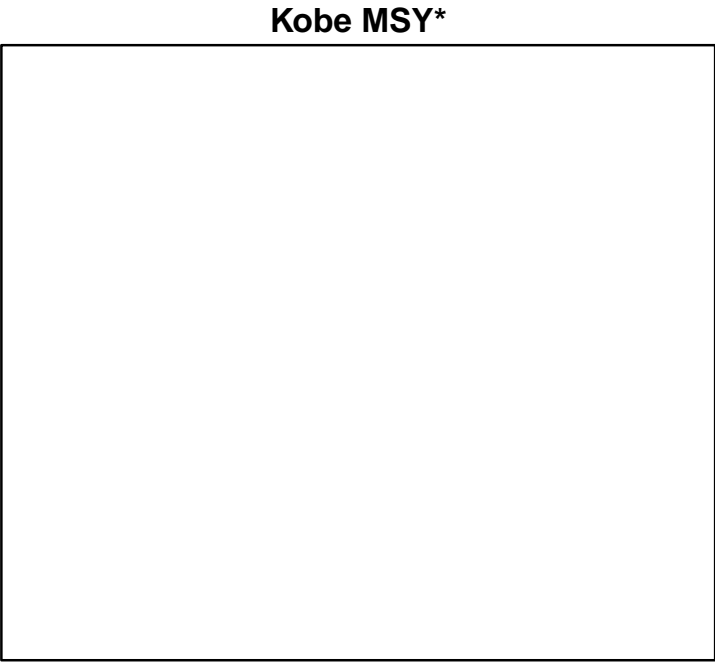


## Horsehead tilefish East China Sea [HHTILEECS]

Metadata	
<b>Scientific Name</b>	Branchiostegus japonicus
<b>Current Assess ID</b>	FAFRFJ-HHTILEECS-1985-2013-JPNIMP2016
<b>Area</b>	East China Sea
<b>Management Authority</b>	Fisheries Agency of Japan
<b>Assessor</b>	Fisheries Agency and Fisheries Research Agency of Japan
<b>Asmts in RAM</b>	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	611		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year   ◆ End Year   \* No Data

Horsehead tilefish East China Sea [HHTILEECS]

TB\*



SSB\*



TN \*



F\*



ER\*

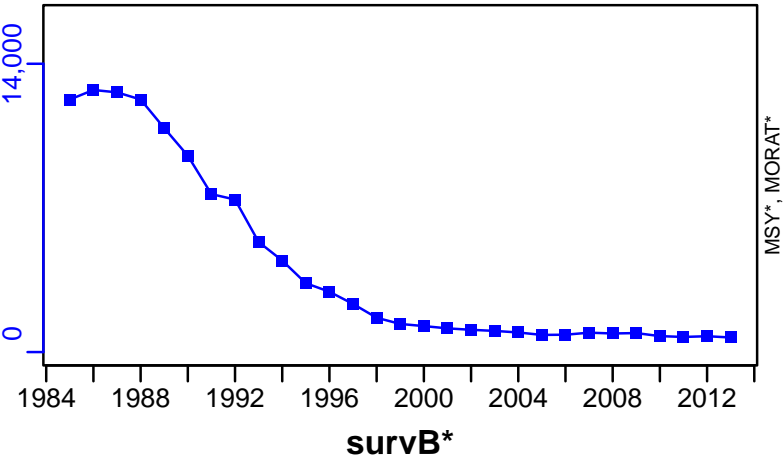


Recruits\*



Horsehead tilefish East China Sea [HHTILEECS]

TC-MT, TL\*, RecC\* (1985-2013-JPNIMP2016)



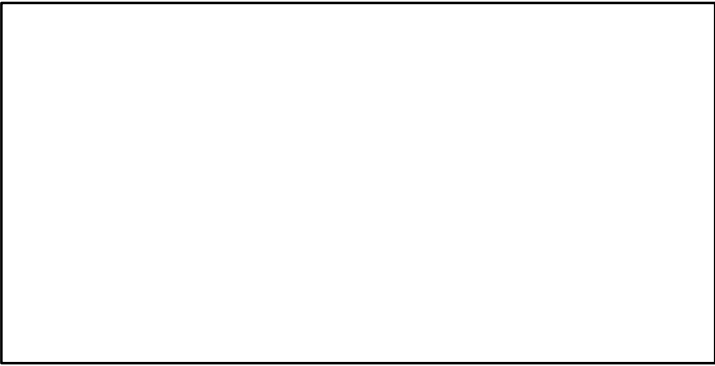
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



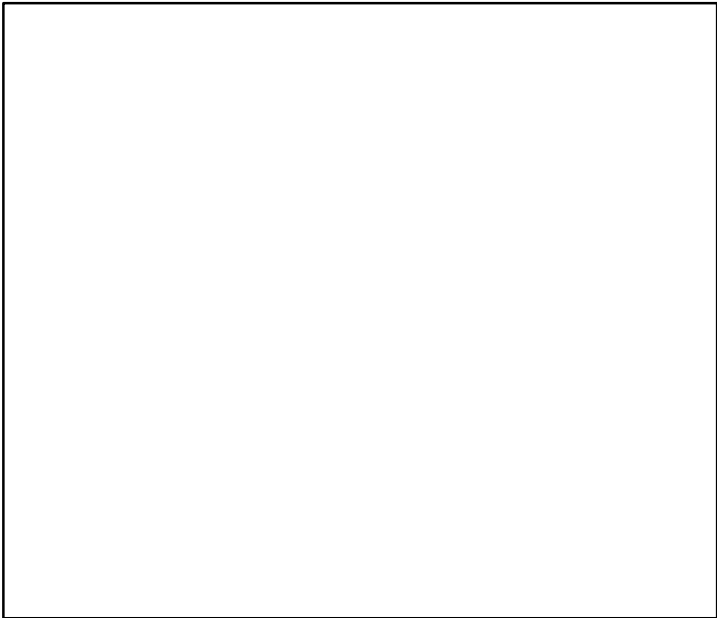
## Japanese snapper Okinawa Islands [JSNAPOKWI]

Metadata	
<b>Scientific Name</b>	Paracaesio caerulea
<b>Current Assess ID</b>	FAFRFJ-JSNAPOKWI-1989-2013-JPNIMP2016
<b>Area</b>	Okinawa Islands
<b>Management Authority</b>	Fisheries Agency of Japan
<b>Assessor</b>	Fisheries Agency and Fisheries Research Agency of Japan
<b>Asmts in RAM</b>	2013

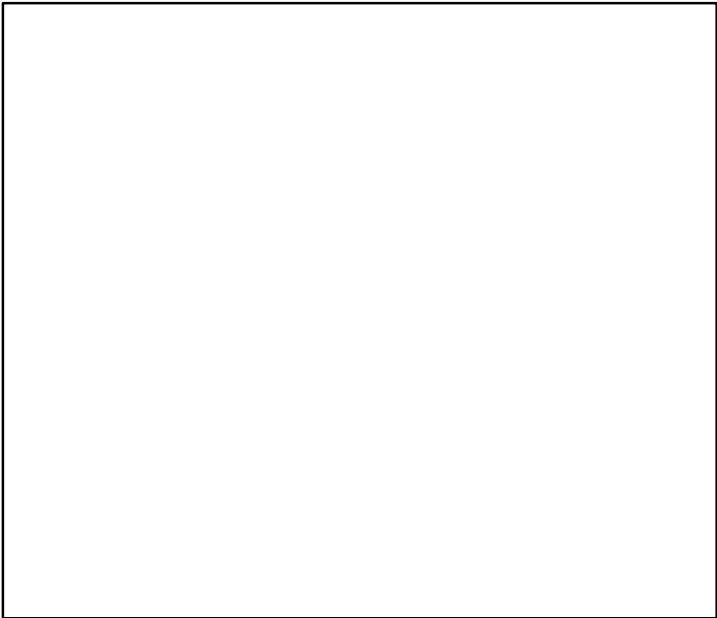
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	153		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

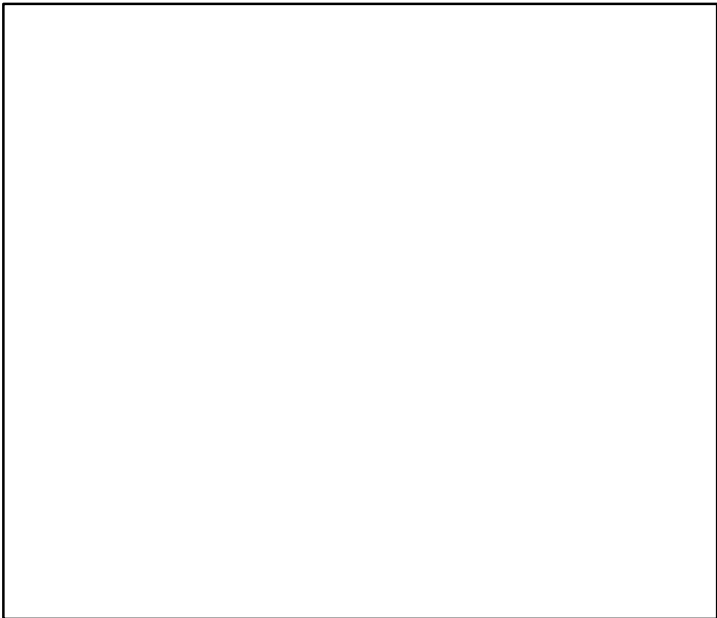
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year ◆ End Year \* No Data

Japanese snapper Okinawa Islands [JSNAPOKWI]

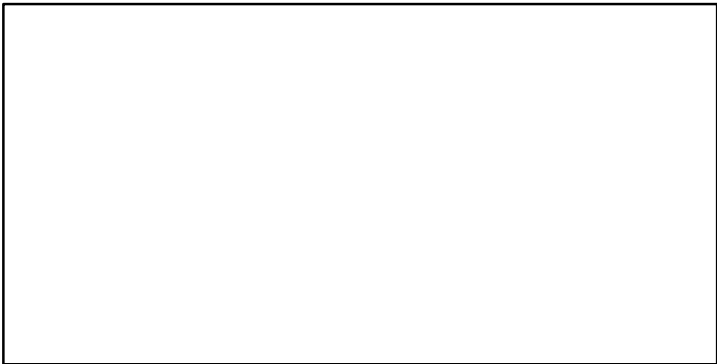
TB\*



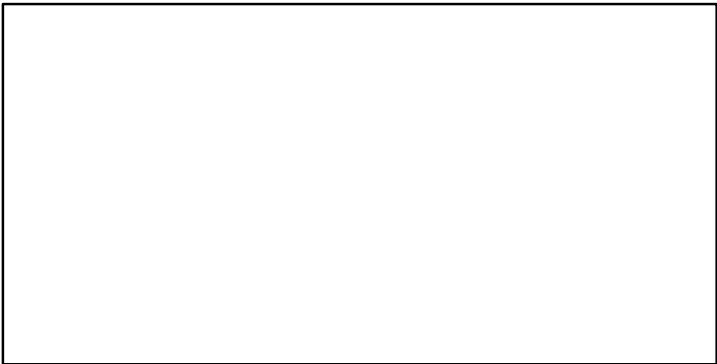
SSB\*



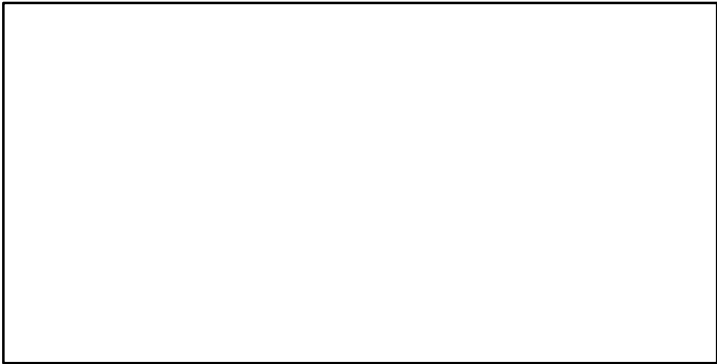
TN \*



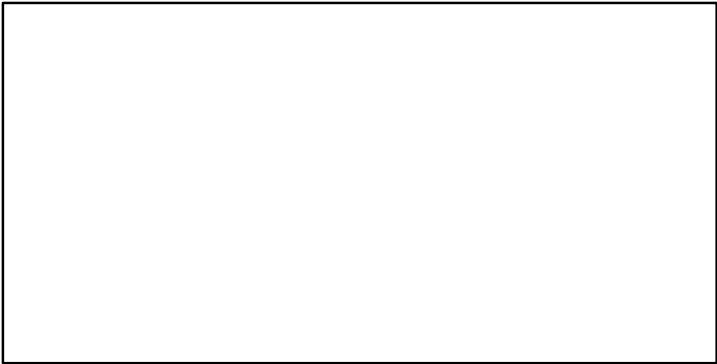
F\*



ER\*

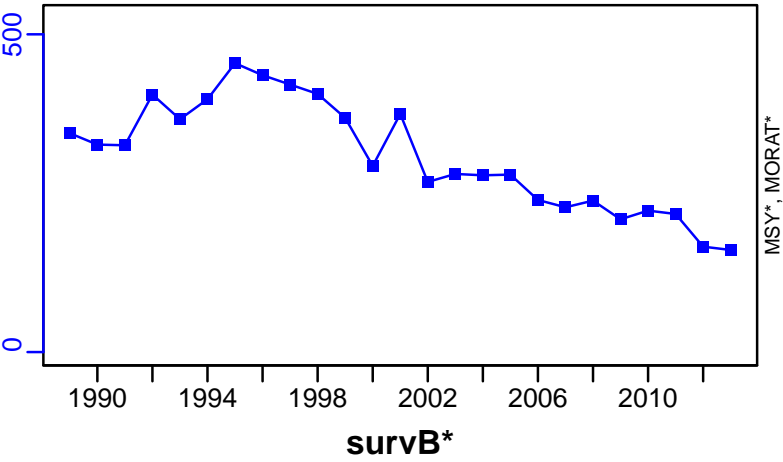


Recruits\*



Japanese snapper Okinawa Islands [JSNAPOKWI]

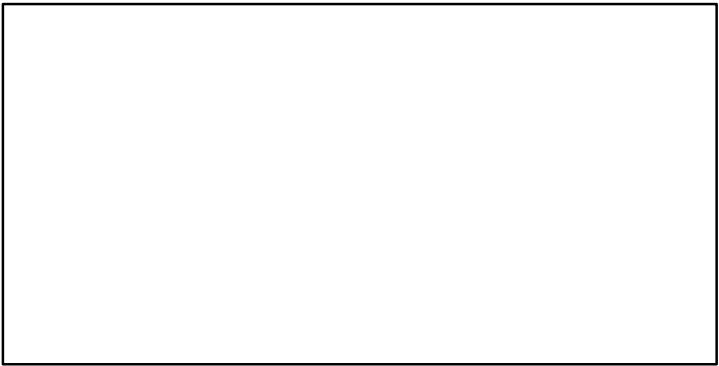
TC-MT, TL\*, RecC\* (1989-2013-JPNIMP2016)



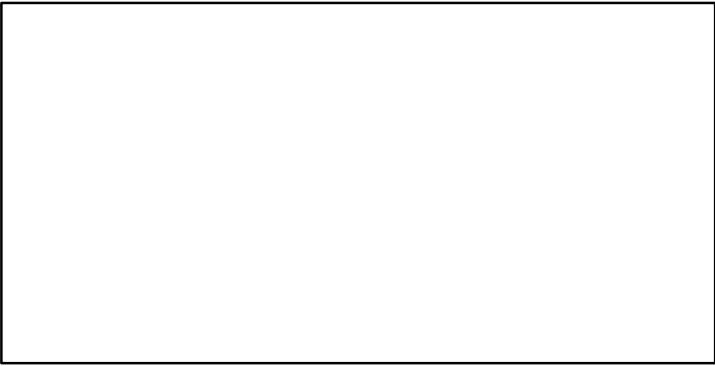
TAC\*, Cpair\*, Cadv\*



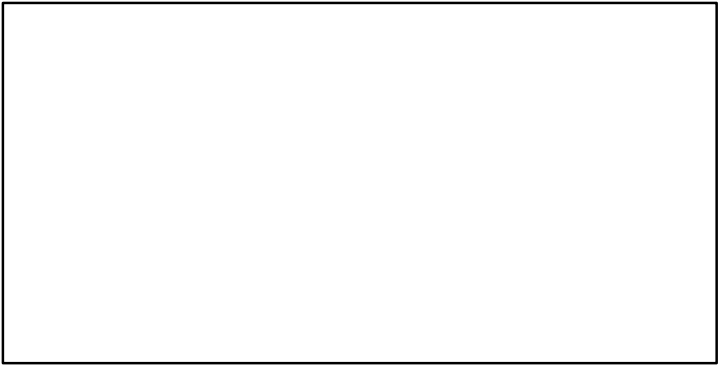
CPUE\*



EFFORT\*



CdivMSY\*





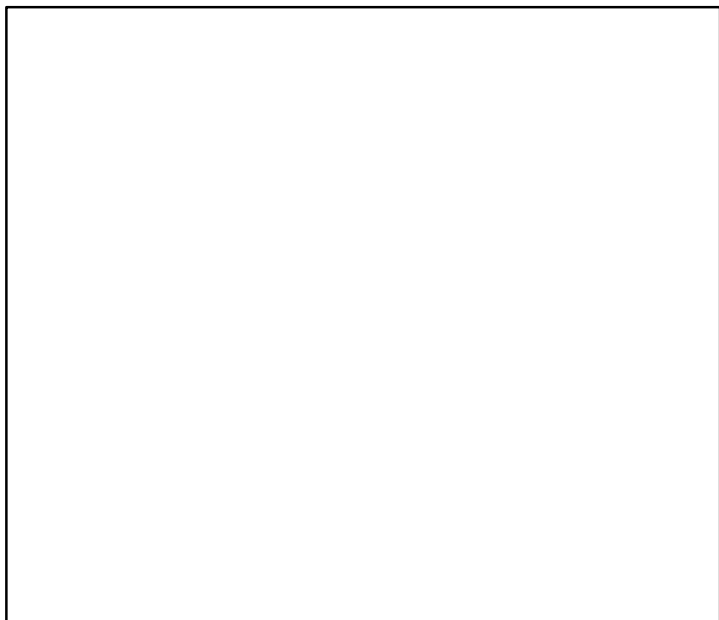
## Large eye dentex Central West Africa Angola [LDENTCWAAGO]

Metadata	
<b>Scientific Name</b>	Dentex macrophthalmus
<b>Current Assess ID</b>	FAO-DR-LDENTCWAAGO-1995-2007-CHING
<b>Area</b>	Central West Africa Angola
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

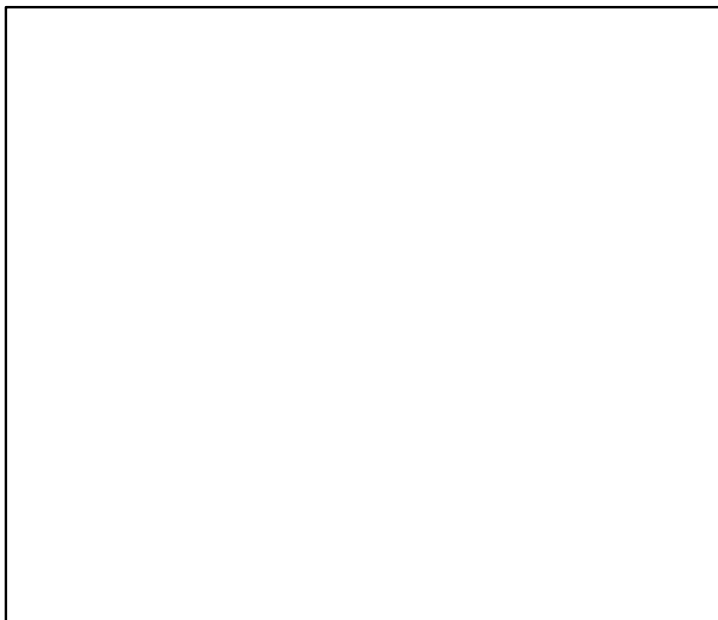
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	155	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	19,100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

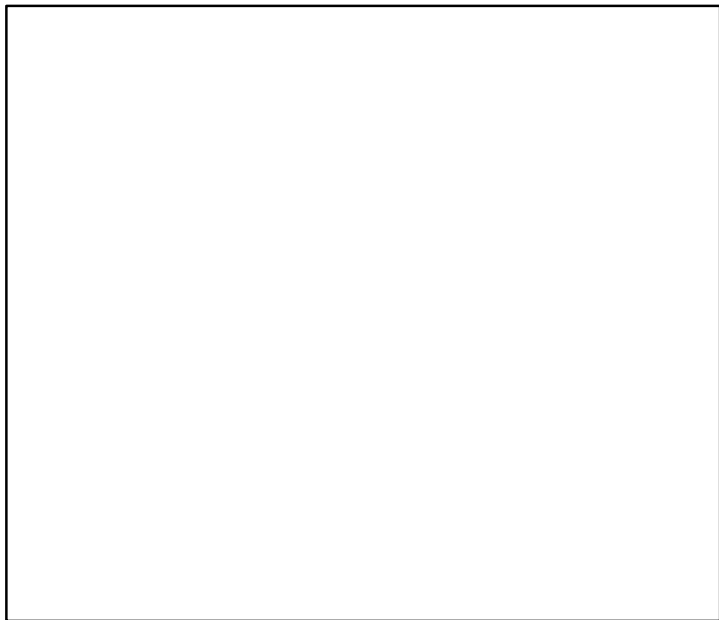
**Kobe MSY\***



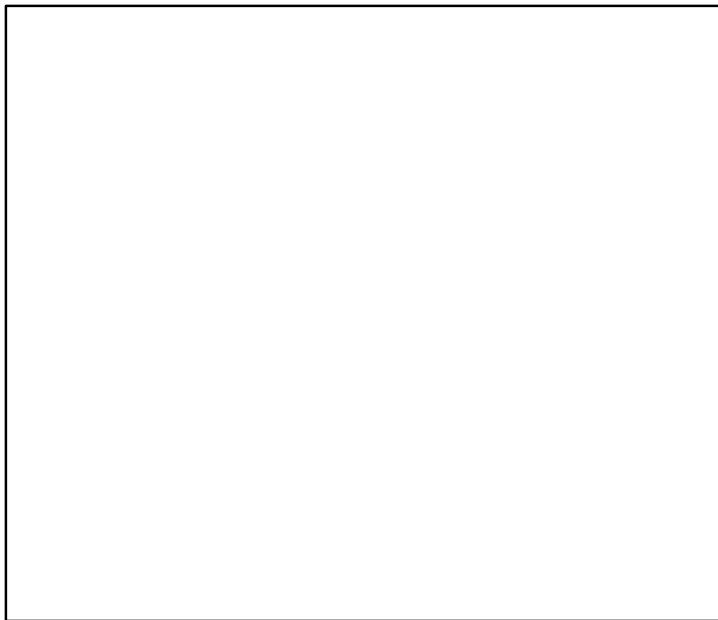
**Kobe MGT\***



**Spawner Recruit\***



**Production\***

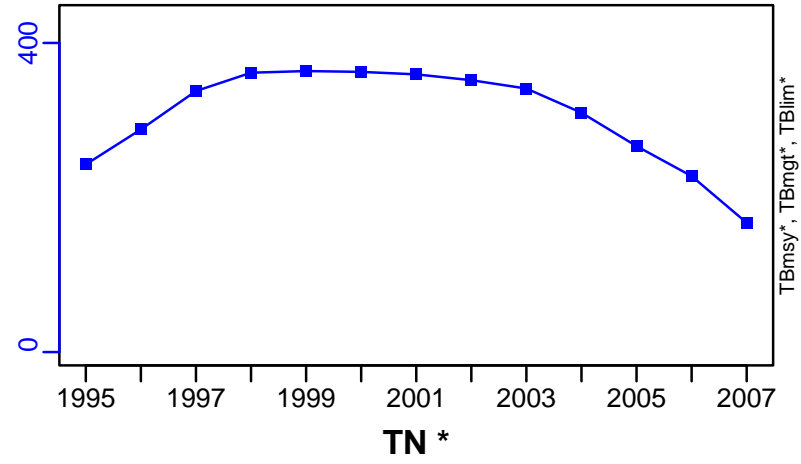


◆ Start Year ◆ End Year \* No Data

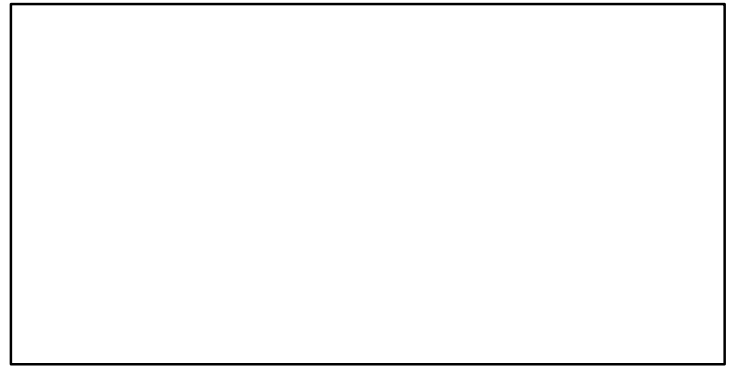
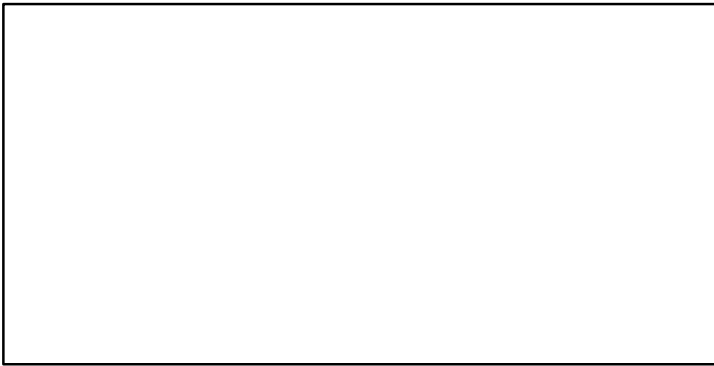
# Large eye dentex Central West Africa Angola [LDENTCWAAGO]

TB-index (1995–2007–CHING)

SSB\*



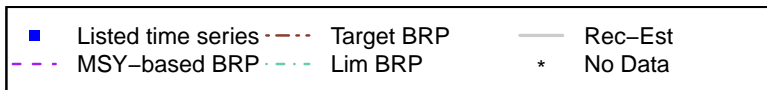
F\*



ER\*



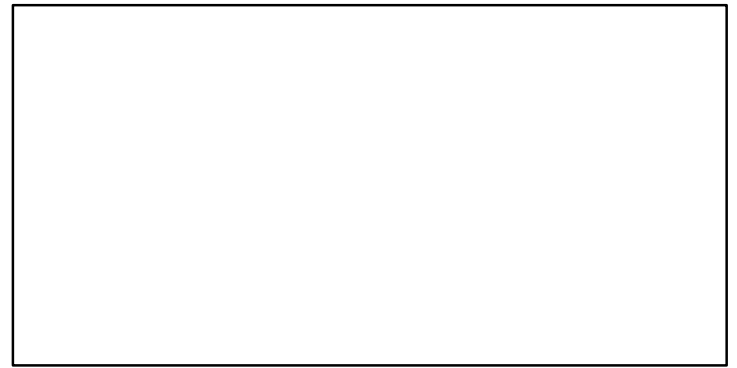
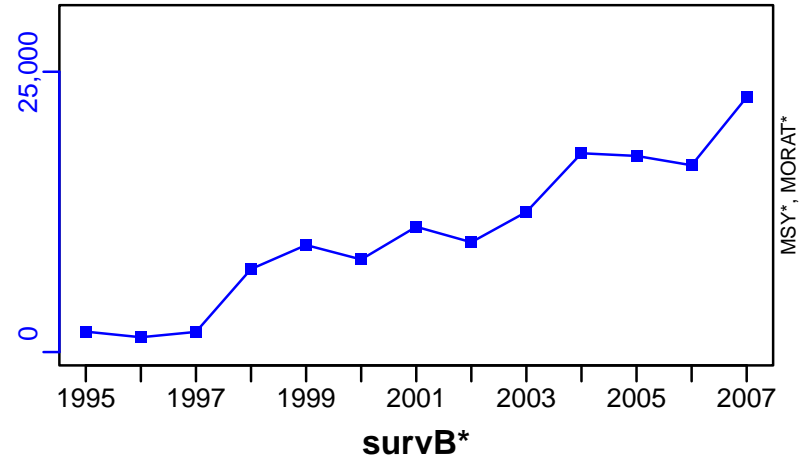
Recruits\*



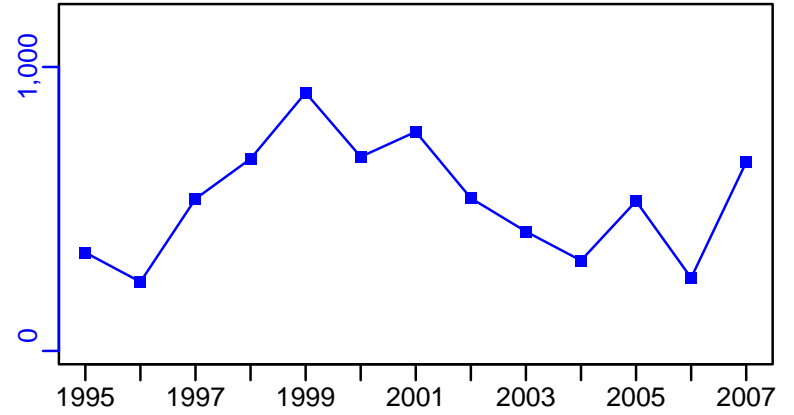
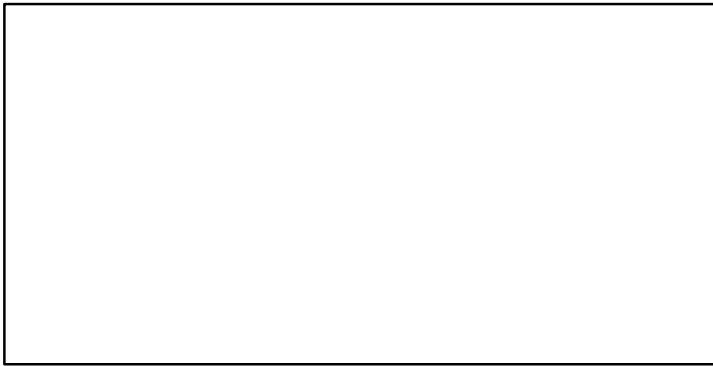
# Large eye dentex Central West Africa Angola [LDENTCWAAGO]

TC-MT, TL\*, RecC\* (1995-2007-CHING)

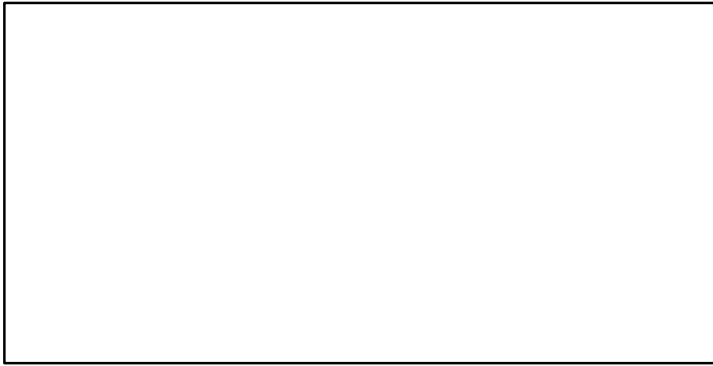
TAC\*, Cpair\*, Cadv\*



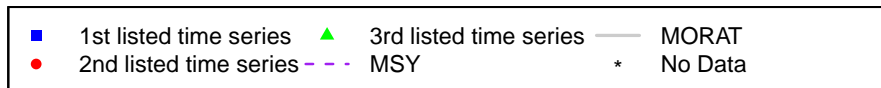
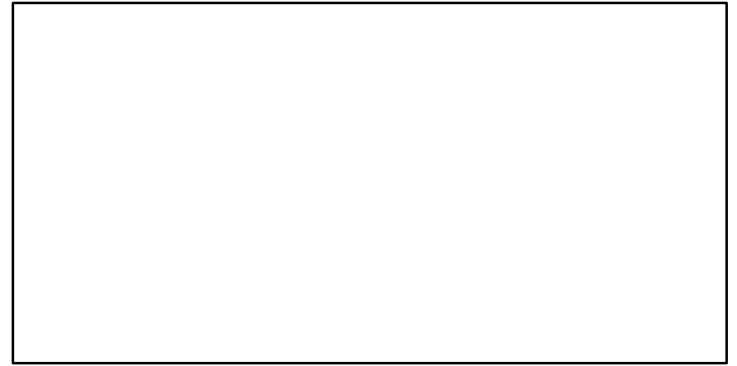
CPUE-kg/day (1995-2007-CHING)



EFFORT\*



CdivMSY\*



## Large eye dentex North West Africa [LDENTNWA]

Metadata	
<b>Scientific Name</b>	Dentex macrophthalmus
<b>Current Assess ID</b>	FAO-DR-LDENTNWA-1982-2016-ASHBROOK
<b>Area</b>	North West Africa
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	7188		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

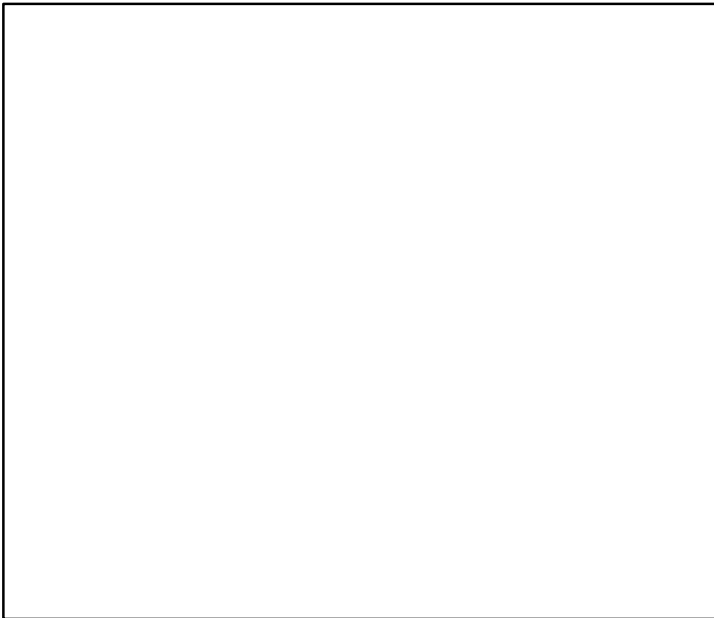
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



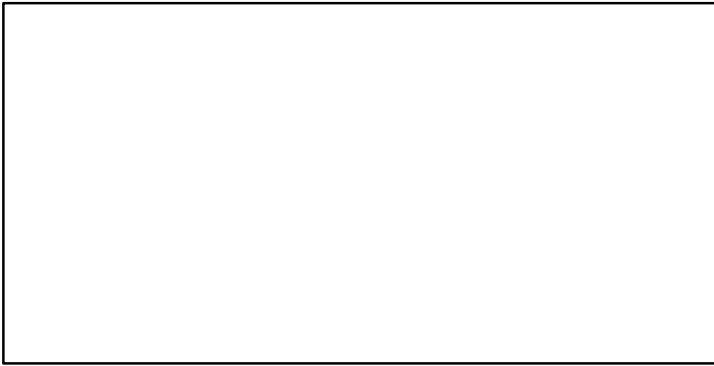
**Production\***



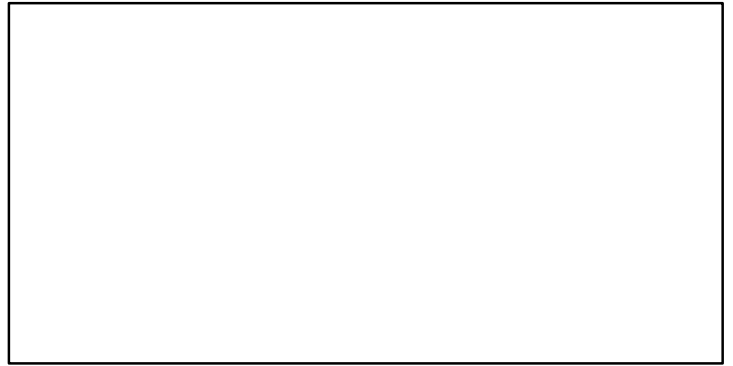
◆ Start Year   ◆ End Year   \* No Data

Large eye dentex North West Africa [LDENTNWA]

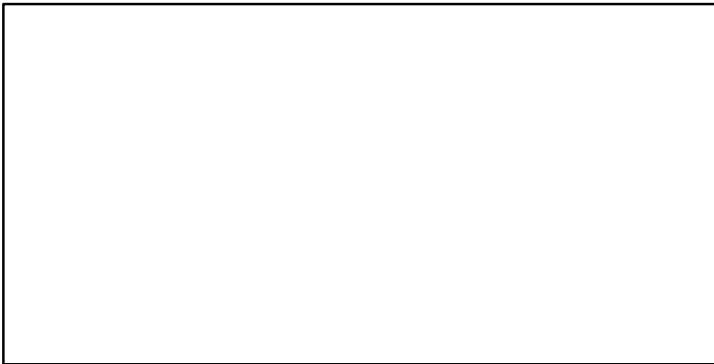
**TB\***



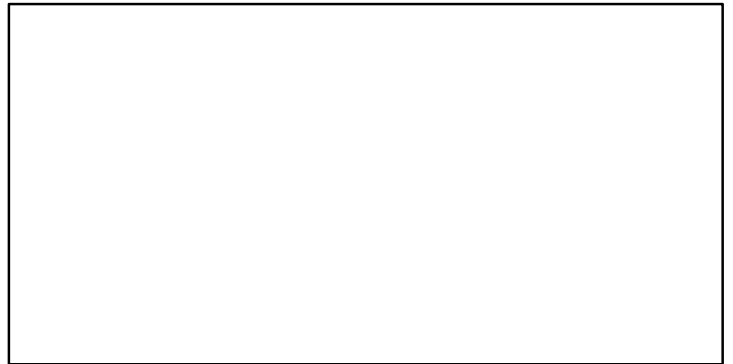
**SSB\***



**TN \***



**F\***



**ER\***

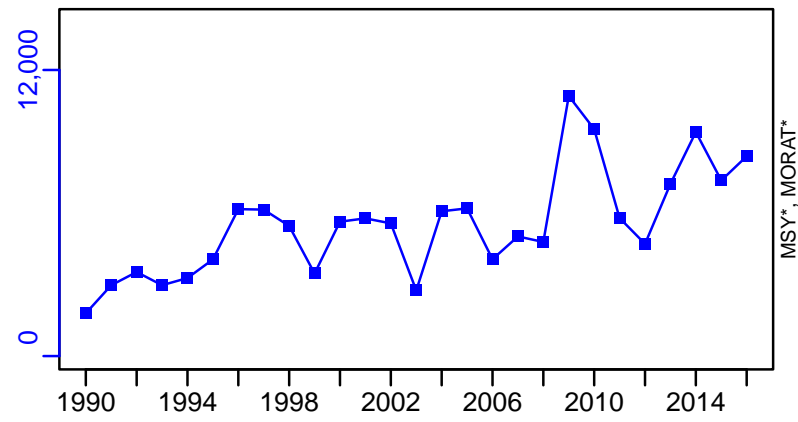


**Recruits\***

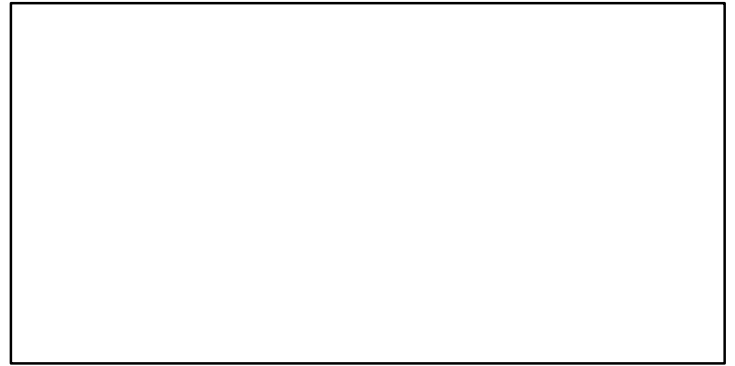


# Large eye dentex North West Africa [LDENTNWA]

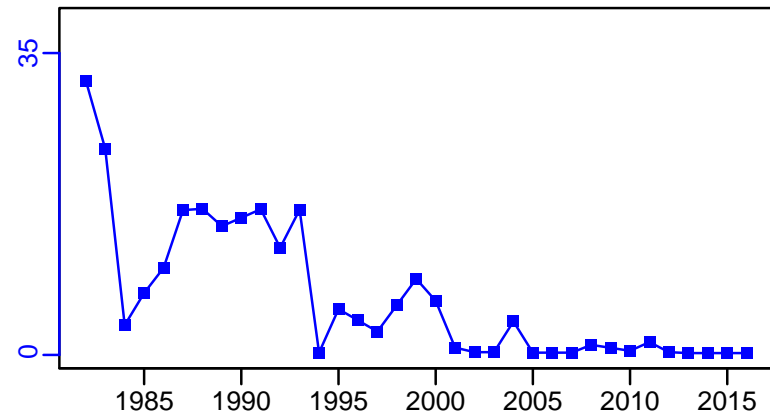
TC-MT, TL\*, RecC\* (1982-2016-ASHBROOK)



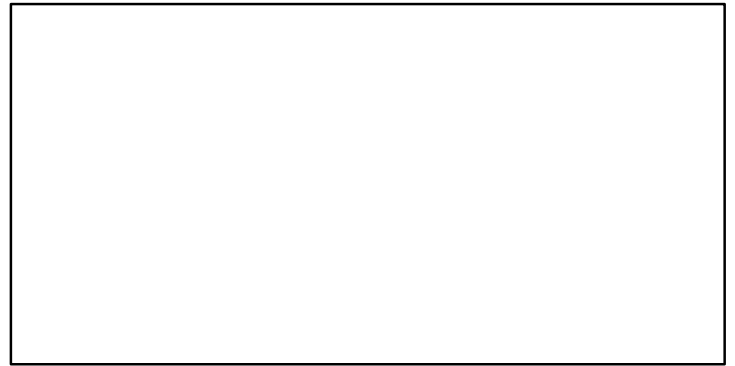
TAC\*, Cpair\*, Cadv\*



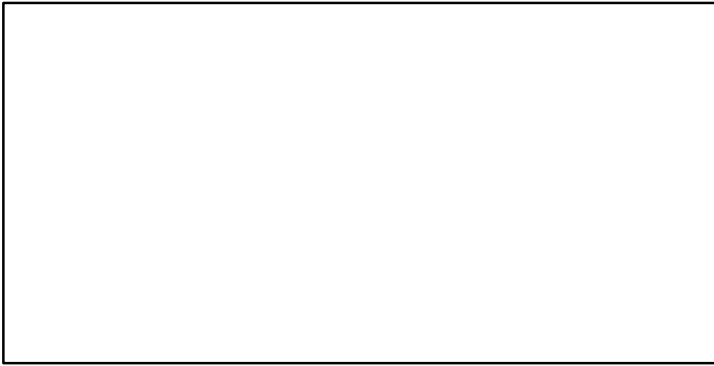
survB\_index-index (1982-2016-ASHBROOK)



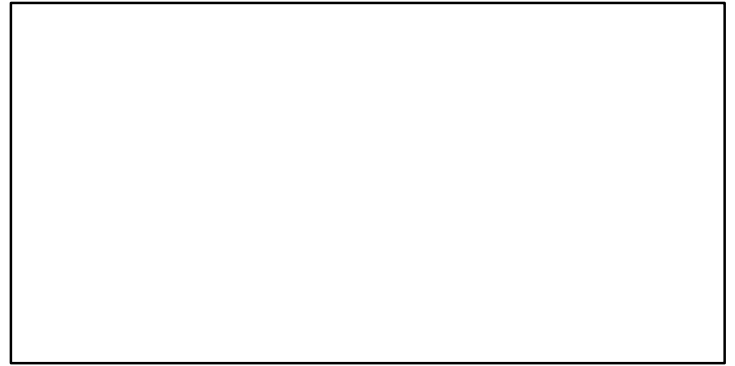
CPUE\*



EFFORT\*



CdivMSY\*



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



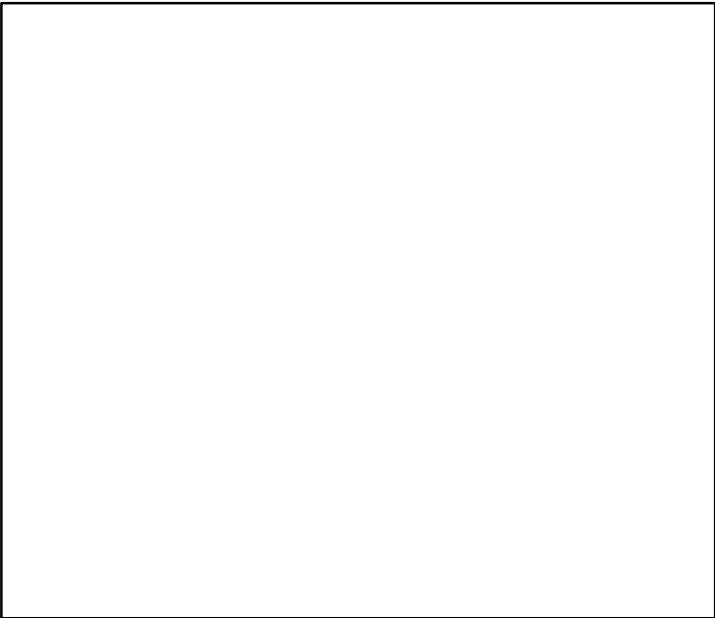
## Lavender jobfish Okinawa Islands [LJOBOKWI]

Metadata	
<b>Scientific Name</b>	Pristipomoides sieboldii
<b>Current Assess ID</b>	FAFRFJ-LJOBOKWI-1989-2013-JPNIMP2016
<b>Area</b>	Okinawa Islands
<b>Management Authority</b>	Fisheries Agency of Japan
<b>Assessor</b>	Fisheries Agency and Fisheries Research Agency of Japan
<b>Asmts in RAM</b>	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	103		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

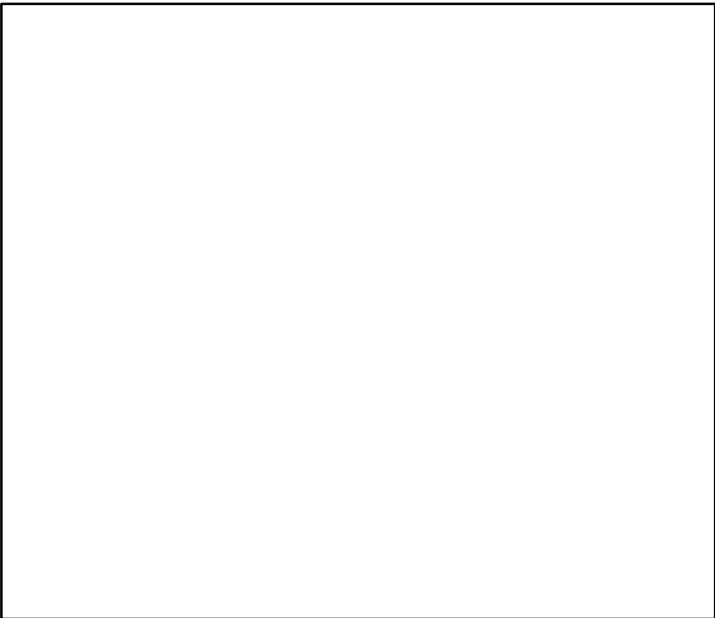
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Lavender jobfish Okinawa Islands [LJOBOKWI]

TB\*



SSB\*



TN \*



F\*



ER\*

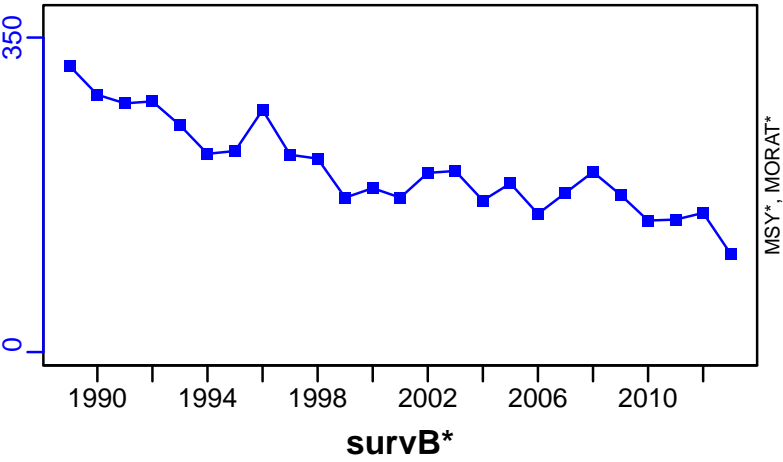


Recruits\*



Lavender jobfish Okinawa Islands [LJOBOKWI]

TC-MT, TL\*, RecC\* (1989-2013-JPNIMP2016)



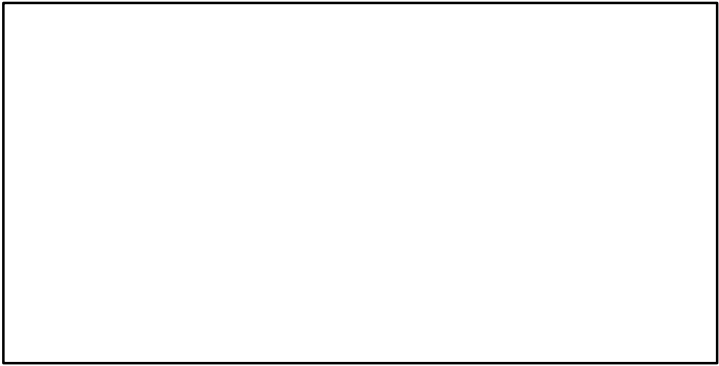
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



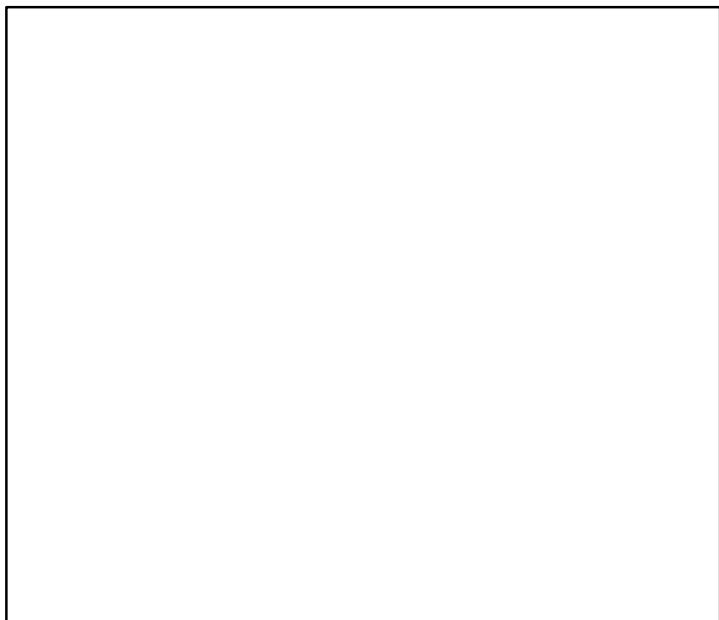
## Lane snapper Gulf of Mexico [LNSNAPGM]

Metadata	
<b>Scientific Name</b>	Lutjanus synagris
<b>Current Assess ID</b>	SEFSC-LNSNAPGM-1986-2018-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2014, 2018

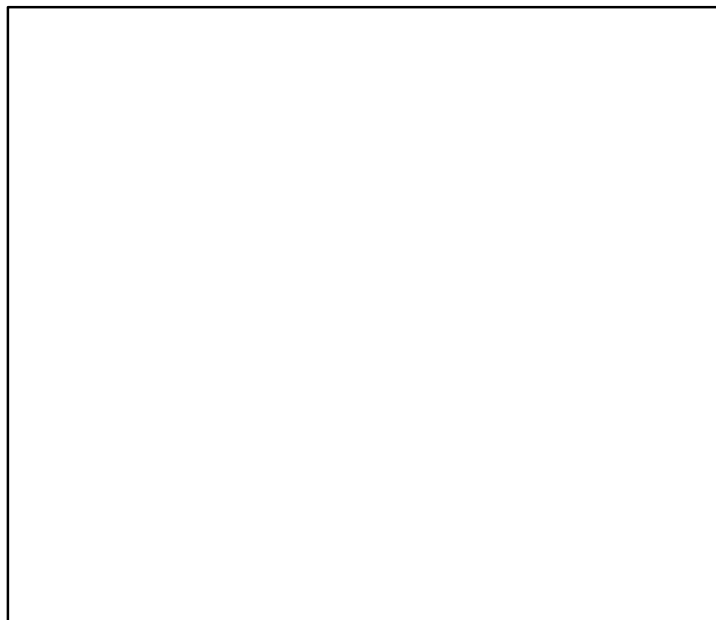
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	141
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	147		
TL	TL-MT	2018	166		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



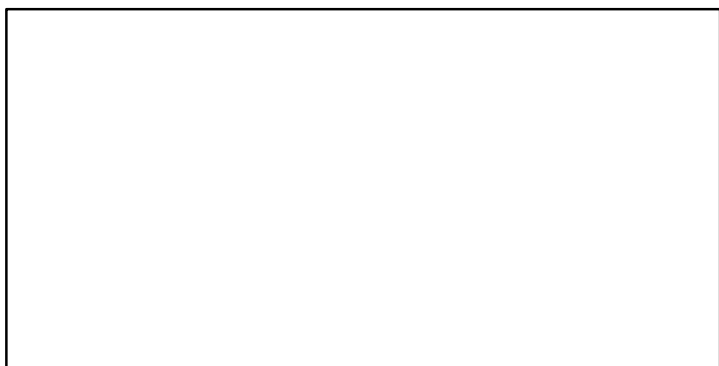
**Production\***



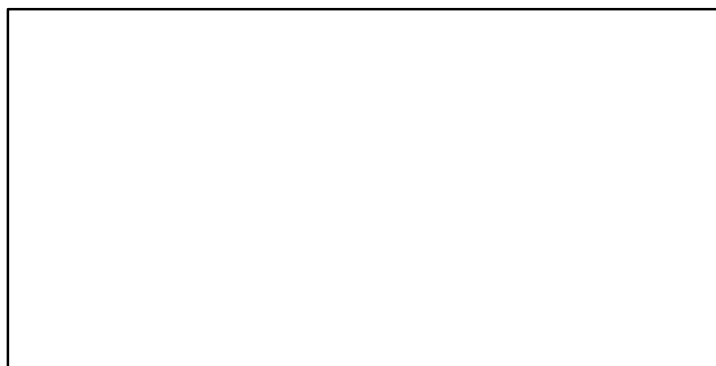
◆ Start Year ◆ End Year \* No Data

Lane snapper Gulf of Mexico [LNSNAPGM]

**TB\***



**SSB\***



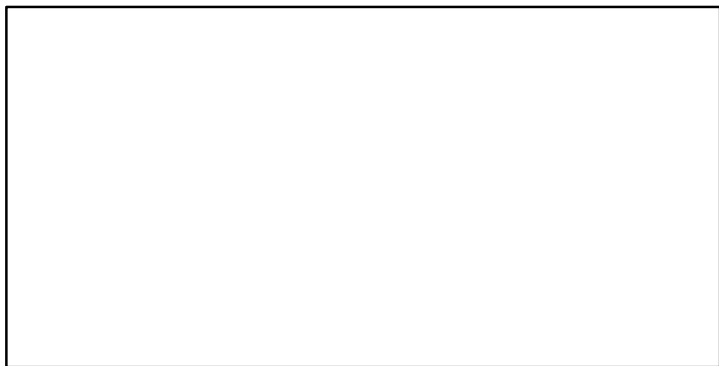
**TN \***



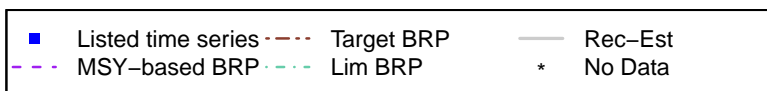
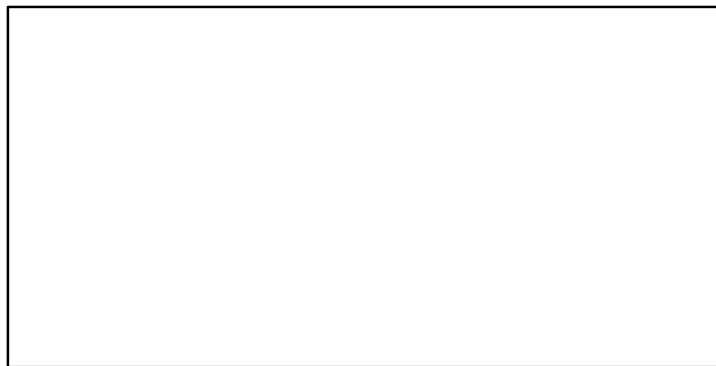
**F\***



**ER\***

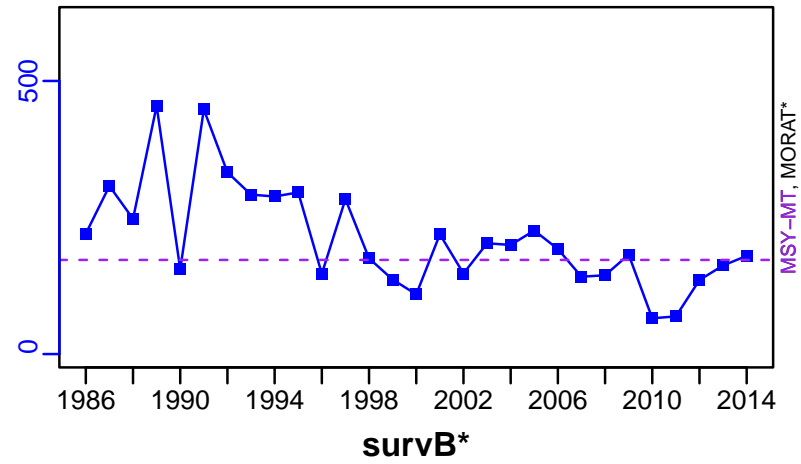


**Recruits\***

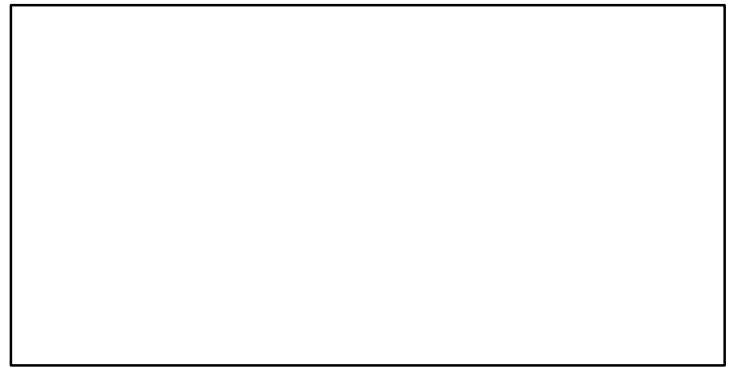


# Lane snapper Gulf of Mexico [LNSNAPGM]

TC-MT, TL\*, RecC\* (1986–2014–SISIMP2021)



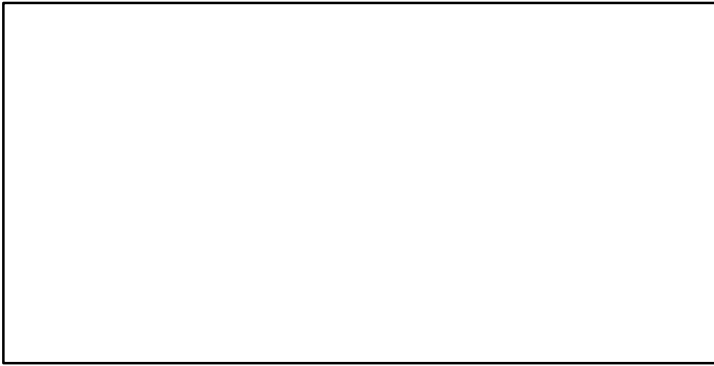
TAC\*, Cpair\*, Cadv\*



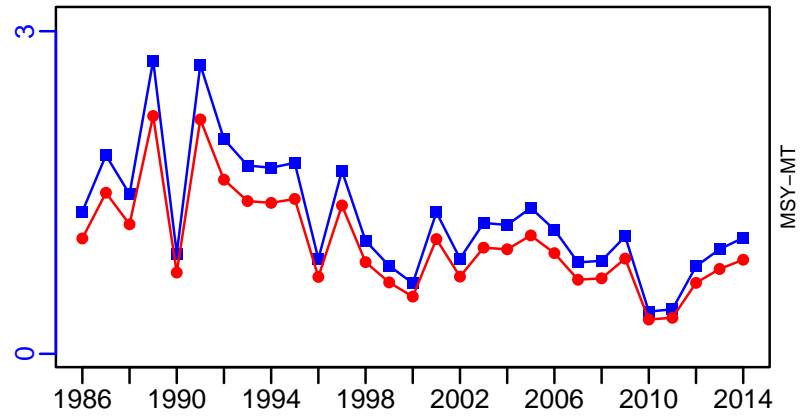
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1986–2014–SISIMP2021)



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



## Jackass morwong Eastern half of Southeast Australia [MORWONGESE]

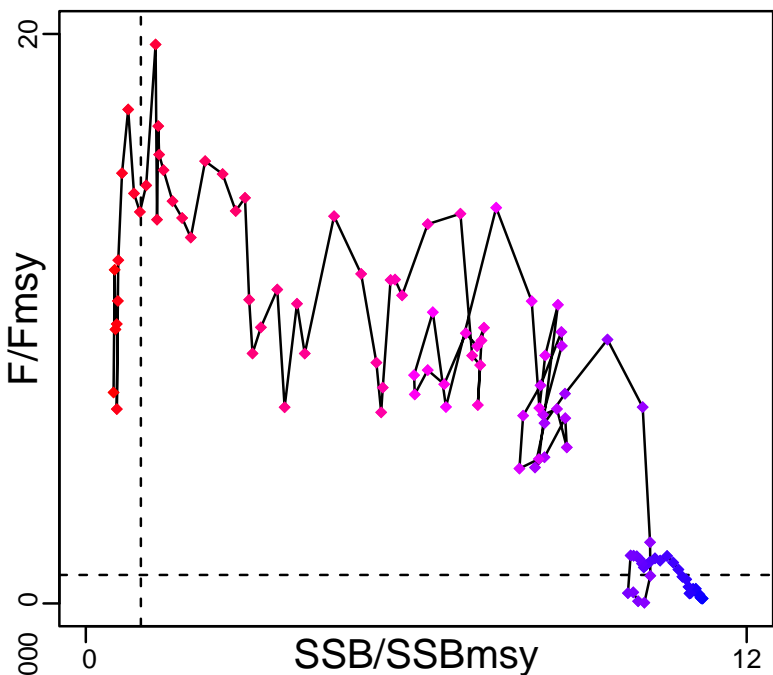
Metadata	
<b>Scientific Name</b>	Nemadactylus macropterus
<b>Current Assess ID</b>	CSIRO-MORWONGESE-1915-2020-MOESENER
<b>Area</b>	Eastern half of Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2014, 2017, 2020

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2020	2128
<b>Fmsy</b>	Fmsy-1/yr	2020	0.128
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2020	3566
<b>Fmgt</b>	Fmgt-1/yr	2020	0.079
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2020	9019
<b>SSB0</b>	SSB0-MT	2020	7429
<b>MSY</b>	MSY-MT	2020	425
<b>M</b>	M-1/yr	2020	0.15
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2020	1486
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

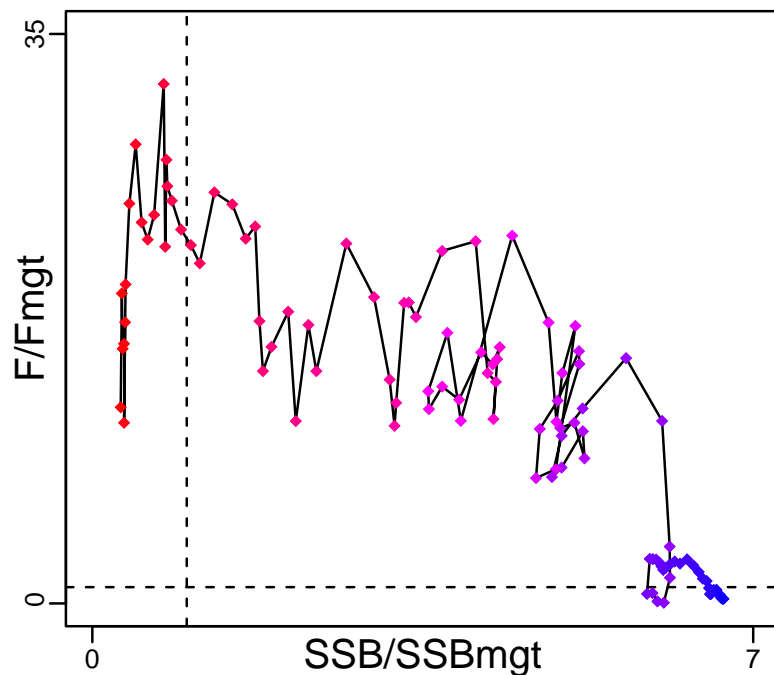
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2020	1528	-	-
<b>SSB</b>	SSB-MT	2020	1073	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2020	$9.61 \times 10^{11}$	-	-
<b>F</b>	F-1/yr	2020	0.95	-	-
<b>ER</b>	ER-ratio	2020	0.071	-	-
<b>TC</b>	TC-MT	2020	103		
<b>TL</b>	TL-MT	2017	139		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2020	0.504		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2020	7.411		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2020	0.301		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2020	12.053		
<b>ER/ERmgt</b>	-	-	-		

# Jackass morwong Eastern half of Southeast Australia [MORWONGESE]

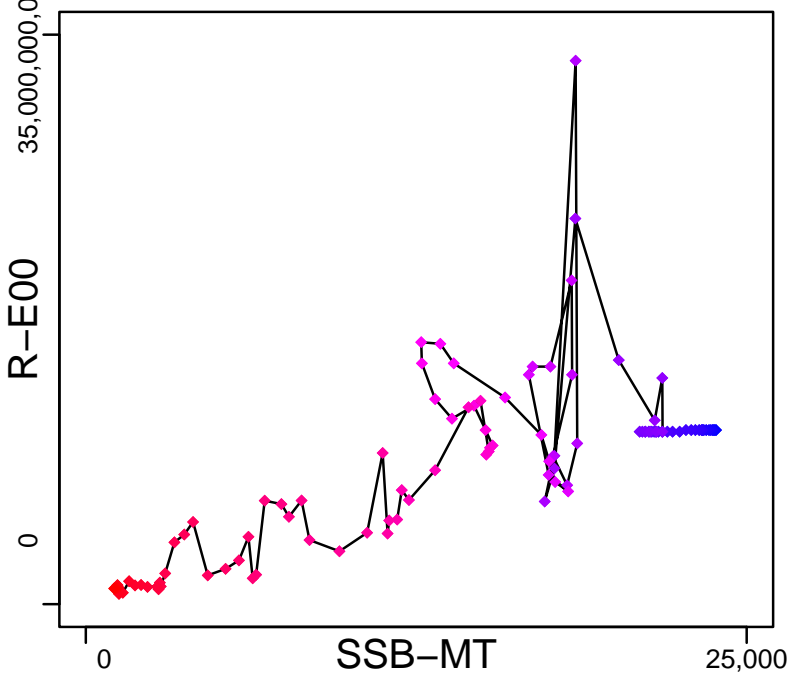
Kobe MSYpref (1915–2020–MOESENEDER)



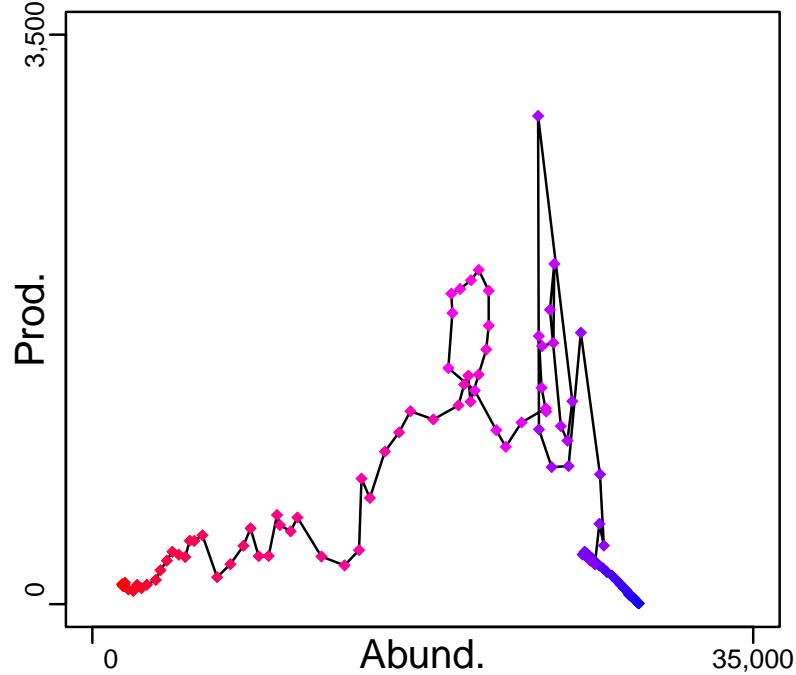
Kobe MGTpref (1915–2020–MOESENEDER)



Spawner Recruit (1915–2020–MOESENEDER)



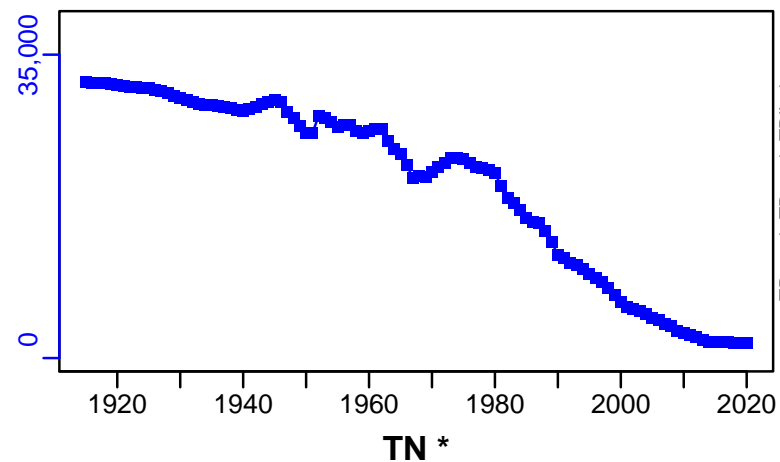
Production (1915–2020–MOESENEDER)



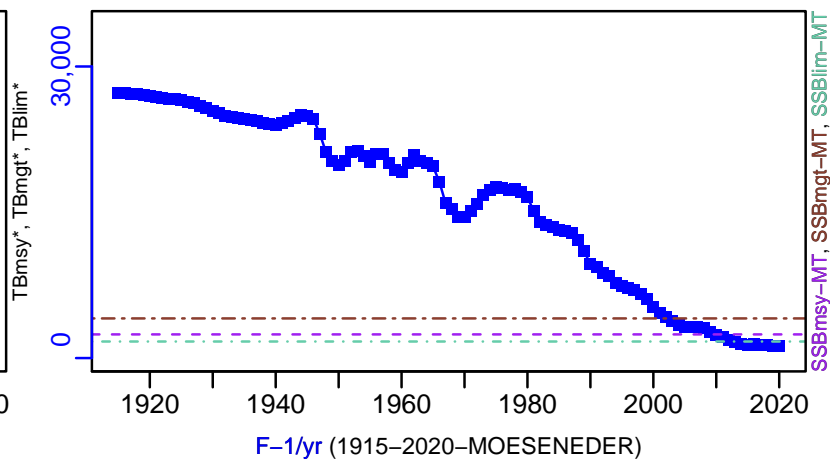
◆ Start Year ◆ End Year \* No Data

# Jackass morwong Eastern half of Southeast Australia [MORWONGESE]

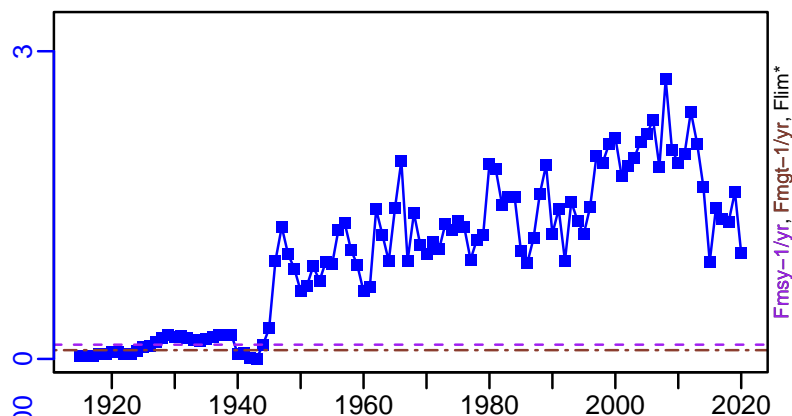
TB-MT (1915-2020-MOESENER)



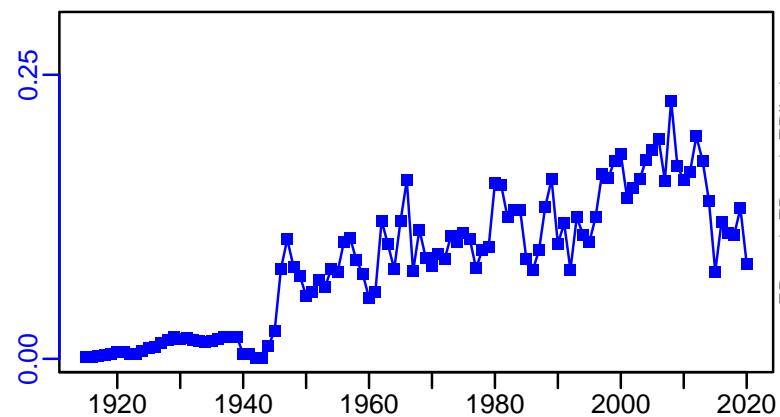
SSB-MT (1915-2020-MOESENER)



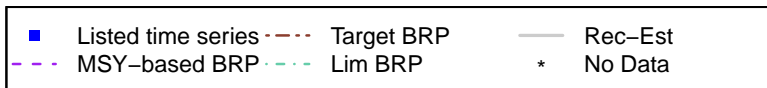
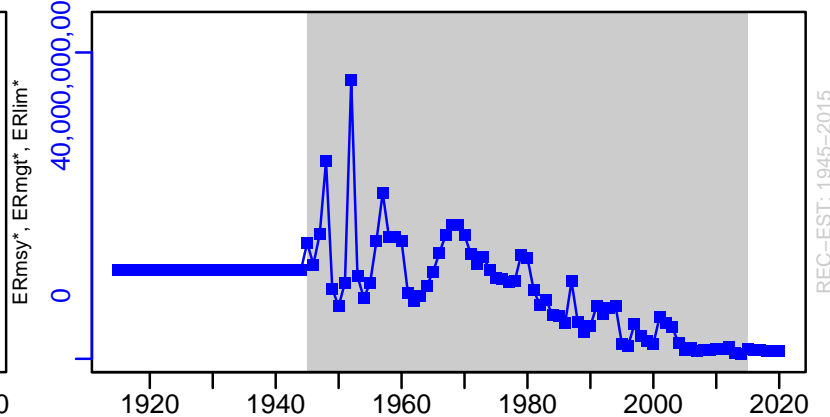
F-1/yr (1915-2020-MOESENER)



ER-ratio (1915-2020-MOESENER)



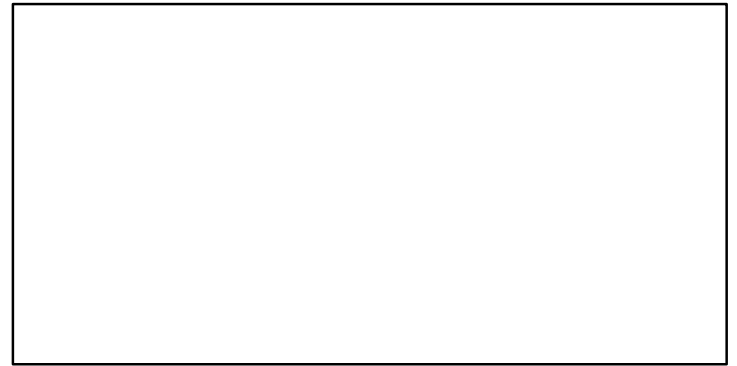
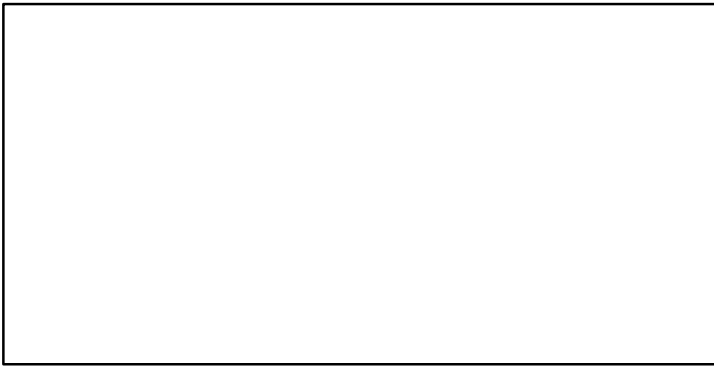
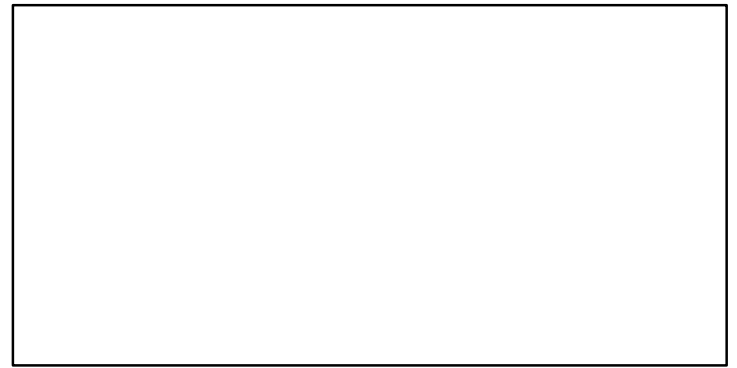
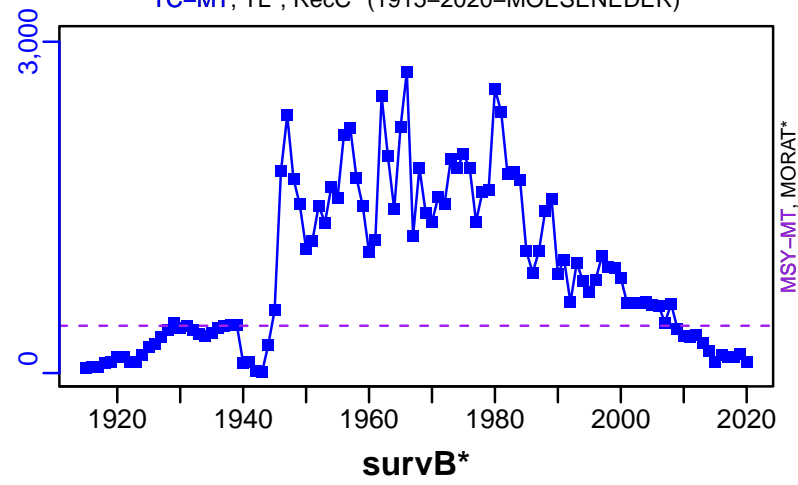
R-E00 (1915-2020-MOESENER)



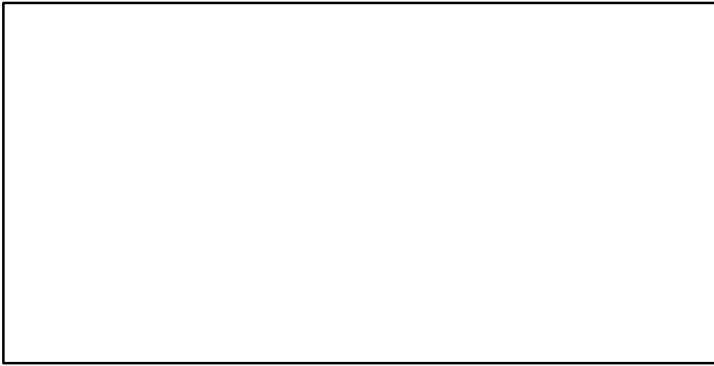
# Jackass morwong Eastern half of Southeast Australia [MORWONGESE]

TC-MT, TL\*, RecC\* (1915-2020-MOESENER)

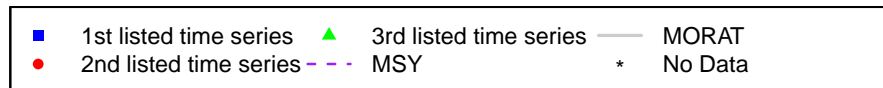
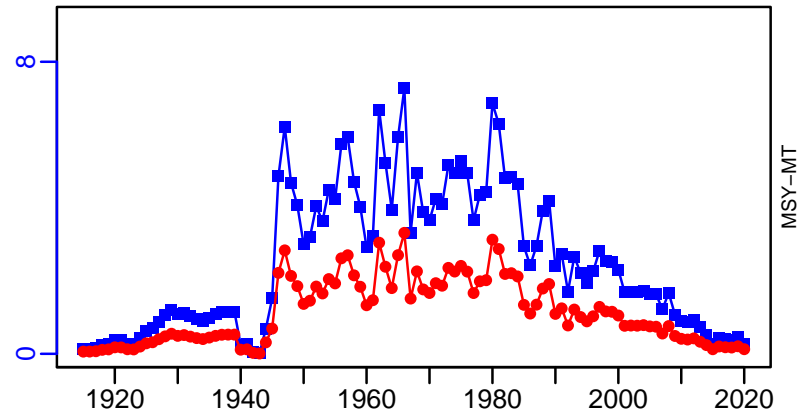
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1915-2020-MOESENER)



## Jackass morwong Western half of Southeast Australia [MORWONGWSE]

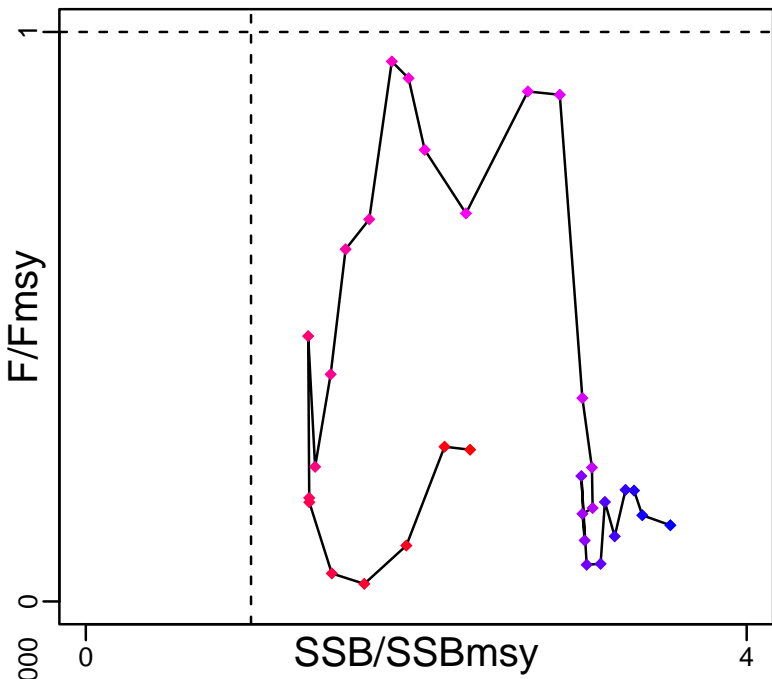
Metadata	
<b>Scientific Name</b>	Nemadactylus macropterus
<b>Current Assess ID</b>	CSIRO-MORWONGWSE-1986-2017-MOESENER
<b>Area</b>	Western half of Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2014, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2017	775
<b>Fmsy</b>	Fmsy-1/yr	2017	0.149
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2017	1317
<b>Fmgt</b>	Fmgt-1/yr	2017	0.09
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2017	3314
<b>SSB0</b>	SSB0-MT	2017	2743
<b>MSY</b>	MSY-MT	2017	180
<b>M</b>	M-1/yr	2017	0.15
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2017	549
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

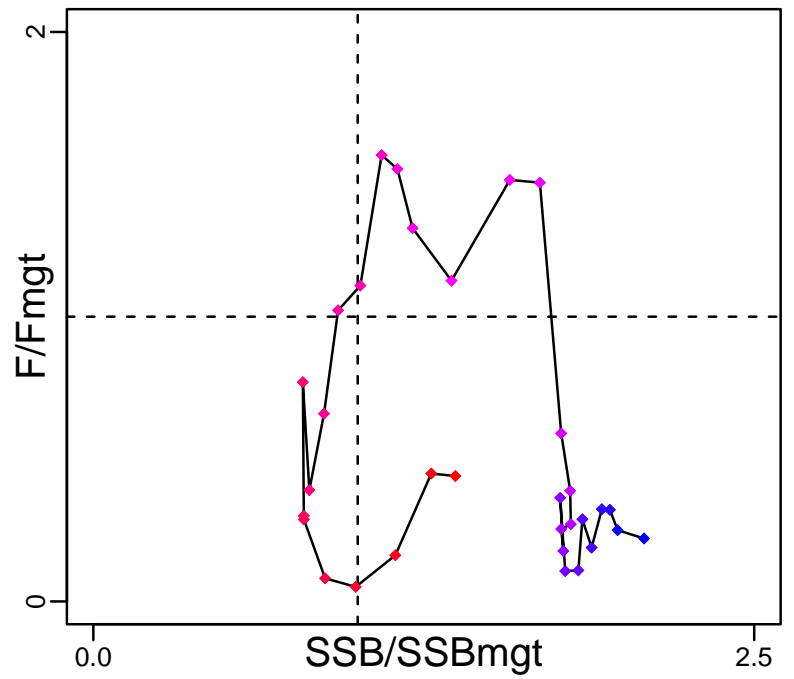
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	2338	-	-
<b>SSB</b>	SSB-MT	2017	1803	Females	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	$1.14 \times 10^{12}$	-	-
<b>F</b>	F-1/yr	2017	0.04	-	-
<b>ER</b>	ER-ratio	2017	0.039	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2017	87		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2017	2.326		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	0.266		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2017	1.37		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2017	0.44		
<b>ER/ERmgt</b>	-	-	-		

# Jackass morwong Western half of Southeast Australia [MORWONGWSE]

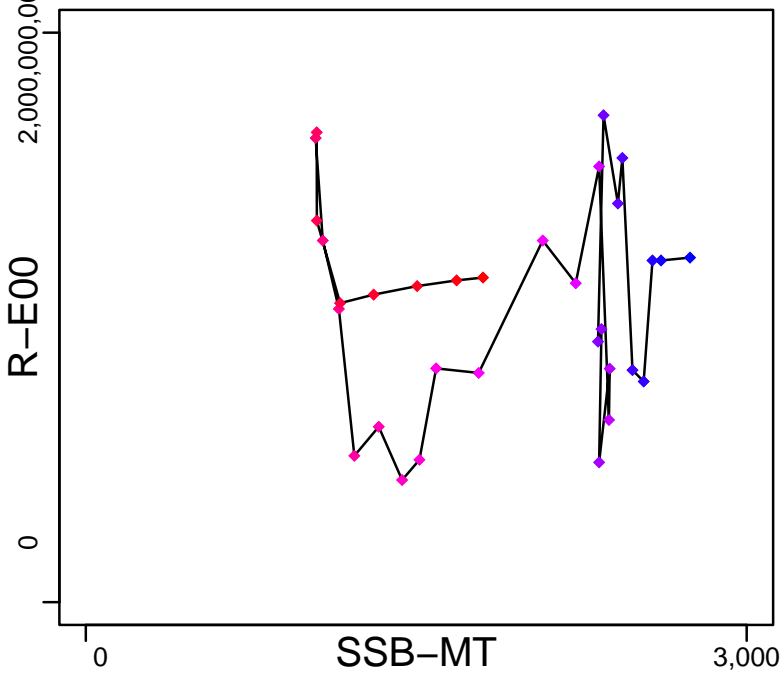
Kobe MSYpref (1986–2017–MOESENEDER)



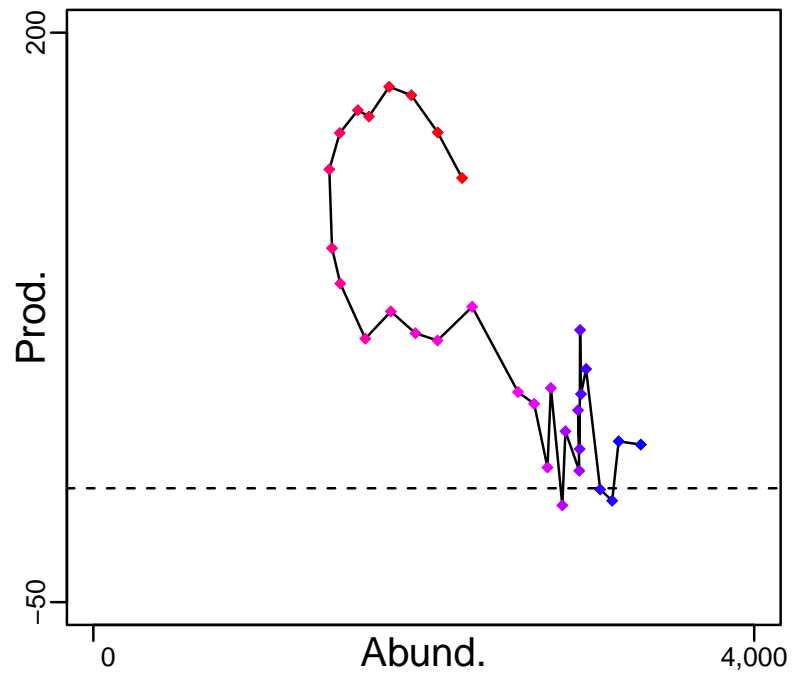
Kobe MGTpref (1986–2017–MOESENEDER)



Spawner Recruit (1986–2017–MOESENEDER)



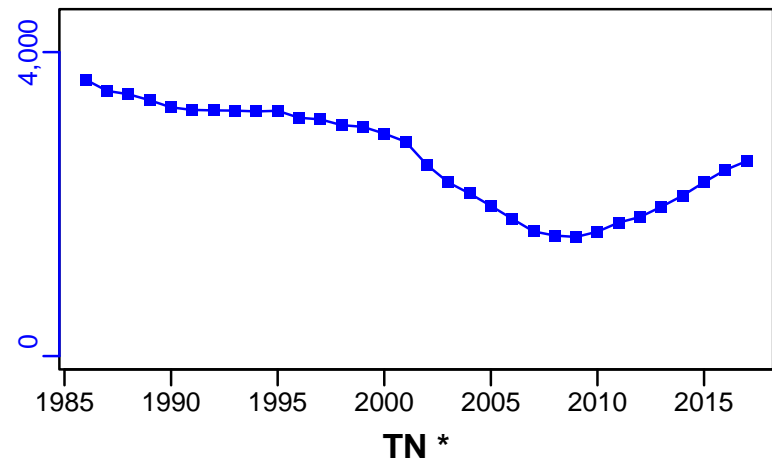
Production (1986–2017–MOESENEDER)



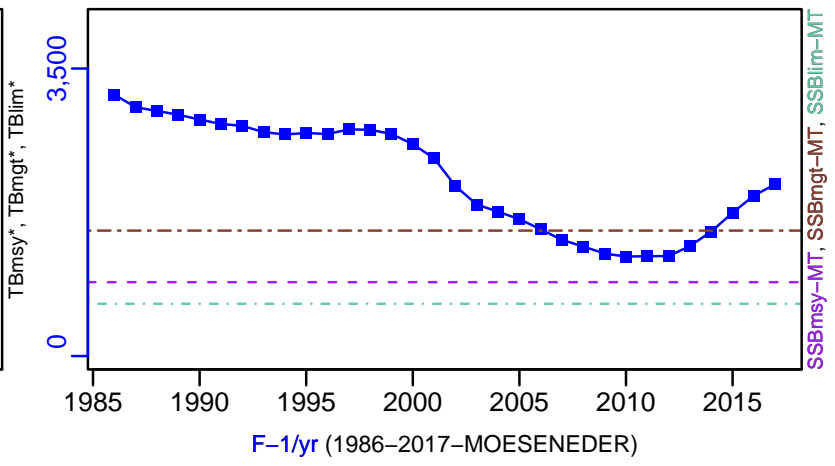
◆ Start Year ◆ End Year \* No Data

# Jackass morwong Western half of Southeast Australia [MORWONGWSE]

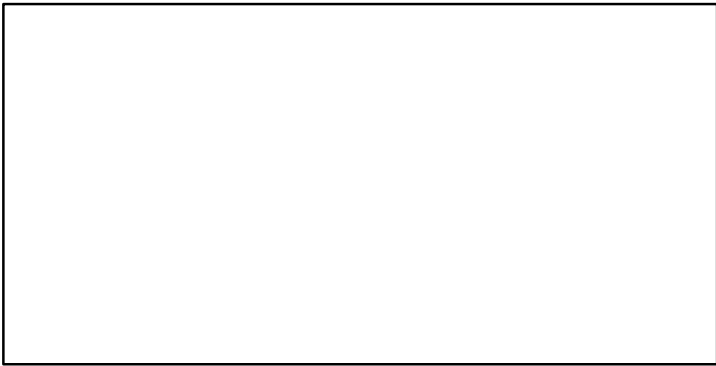
TB-MT (1986–2017–MOESENEDER)



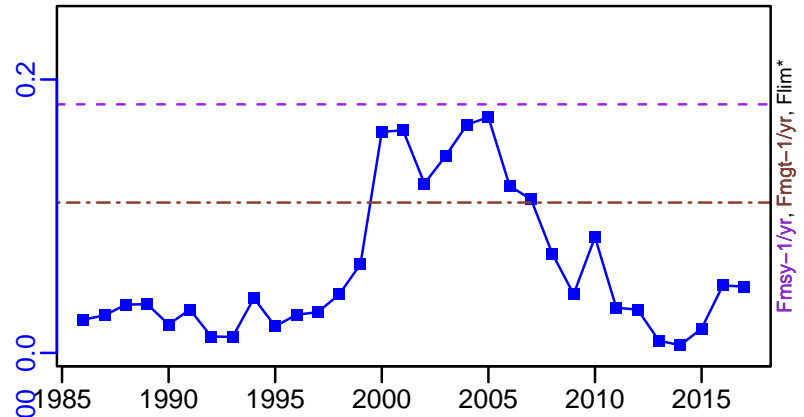
SSB-MT (1986–2017–MOESENEDER)



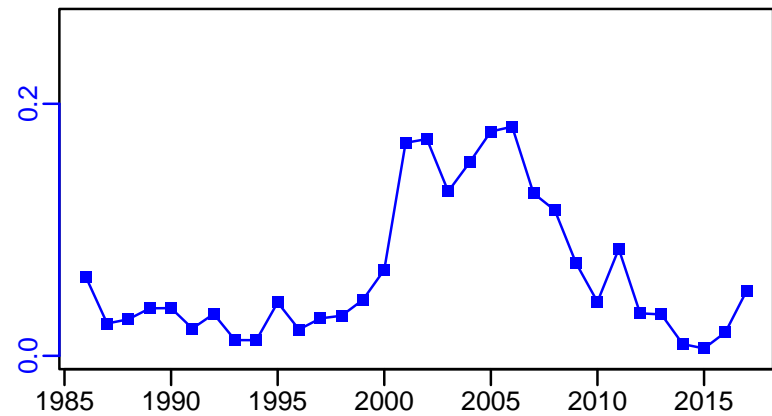
TN \*



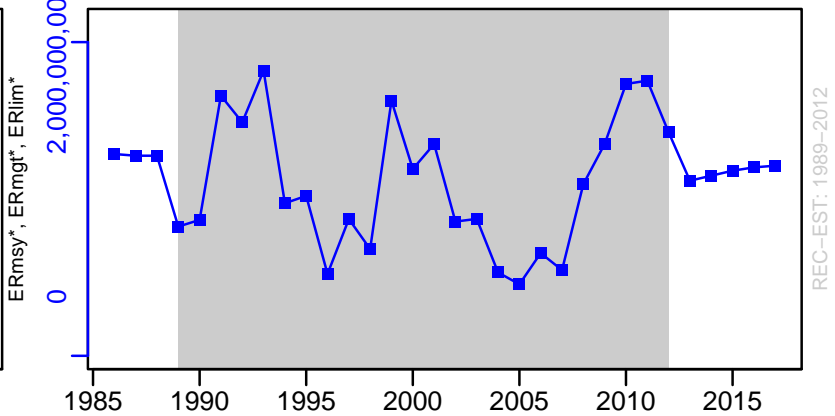
F-1/yr (1986–2017–MOESENEDER)



ER-ratio (1986–2017–MOESENEDER)



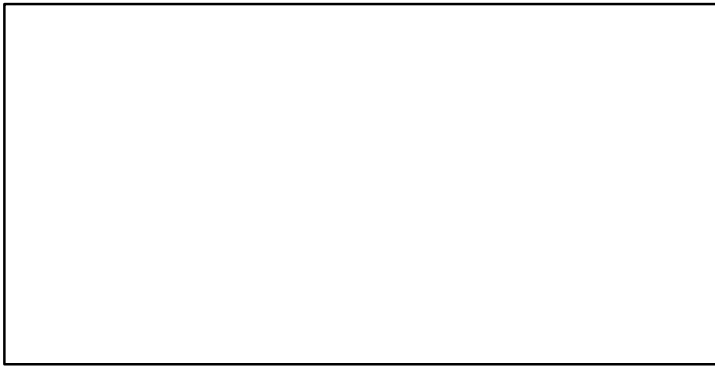
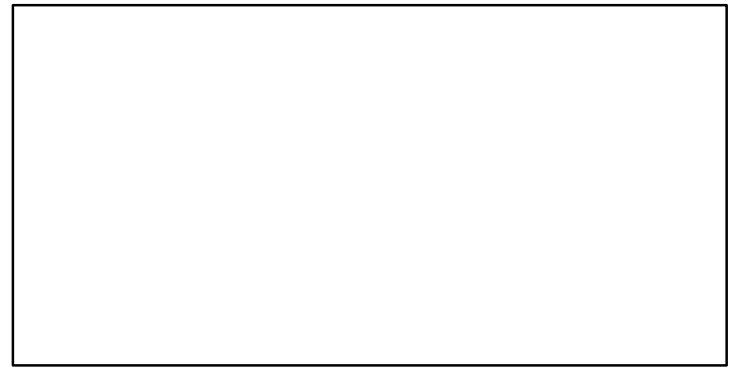
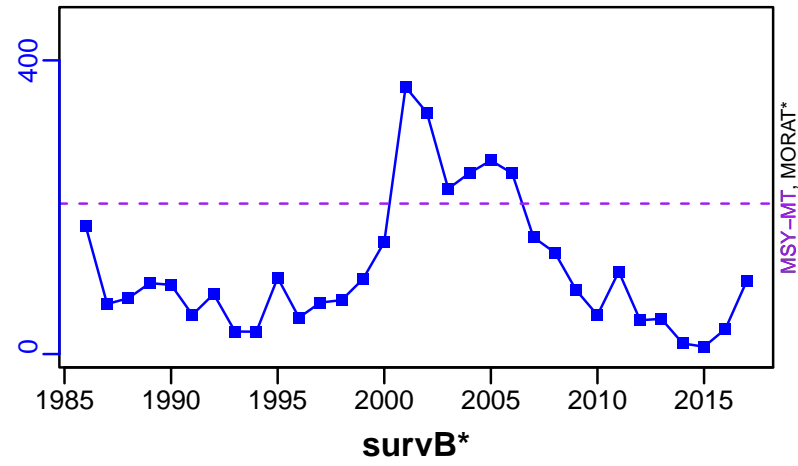
R-E00 (1986–2017–MOESENEDER)



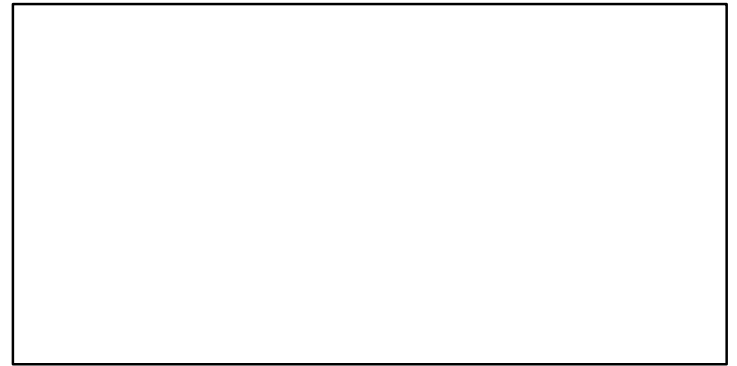
# Jackass morwong Western half of Southeast Australia [MORWONGWSE]

TL-MT, TC\*, RecC\* (1986-2017-MOESENER)

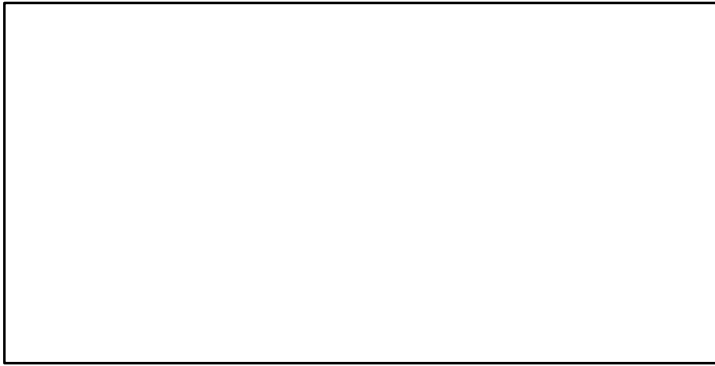
TAC\*, Cpair\*, Cadv\*



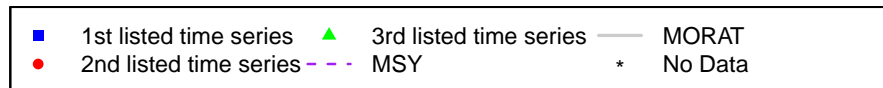
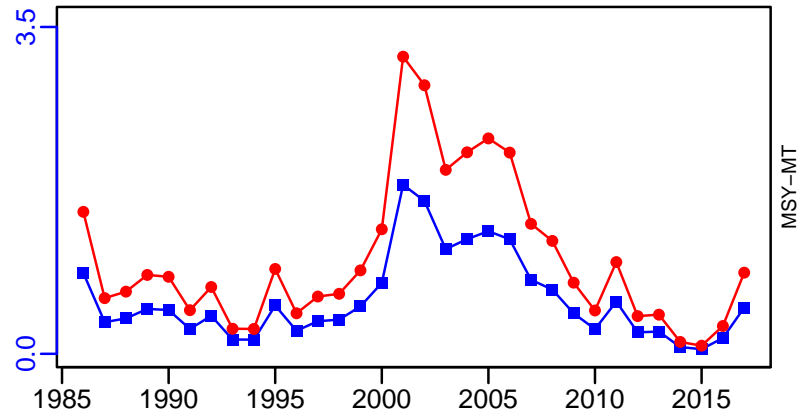
CPUE\*



EFFORT\*



TL-MT/MSY-MT, CdivMEANC-ratio, (1986-2017-MOESENER)





## Mutton snapper Southern Atlantic coast and Gulf of Mexico [MUTSNAPSATLCGM]

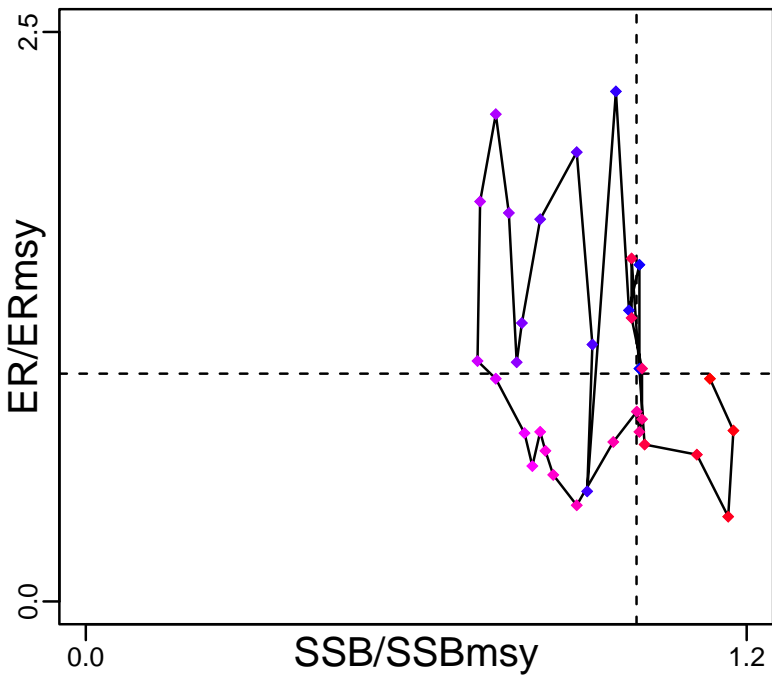
Metadata	
<b>Scientific Name</b>	Lutjanus analis
<b>Current Assess ID</b>	SEFSC-MUTSNAPSATLCGM-1981-2013-SISIMP2016
<b>Area</b>	Southern Atlantic coast and Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2006, 2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2013	2299
<b>SSBmsy</b>	SSBmsy-MT	2013	2109
<b>Fmsy</b>	Fmsy-pr-1/yr	2006	0.34
<b>ERmsy</b>	ERmsy-ratio	2013	0.18
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2013	414
<b>M</b>	M-1/yr	2006	0.11
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2013	1877
<b>Flim</b>	-	-	-
<b>ERlim</b>	ERlim-ratio	2013	0.18

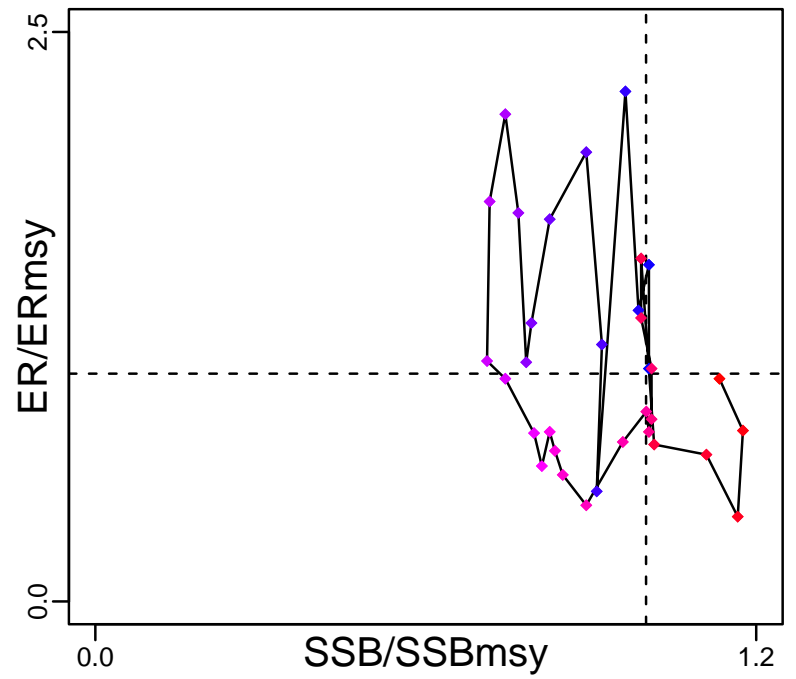
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	5210	-	-
<b>SSB</b>	SSB-MT	2013	2390	Females	4+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2006	1,580,000	-	-
<b>F</b>	F-1/yr	2006	0.18	-	-
<b>ER</b>	ER-ratio	2013	0.176	-	3
<b>TC</b>	TC-MT	2013	404		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT	2013	2.266		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2013	1.133		
<b>F/Fmsy</b>	F-1/yr/Fmsy-pr-1/yr	2006	0.529		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2013	0.978		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Mutton snapper Southern Atlantic coast and Gulf of Mexico [MUTSNAPSATLCGM]

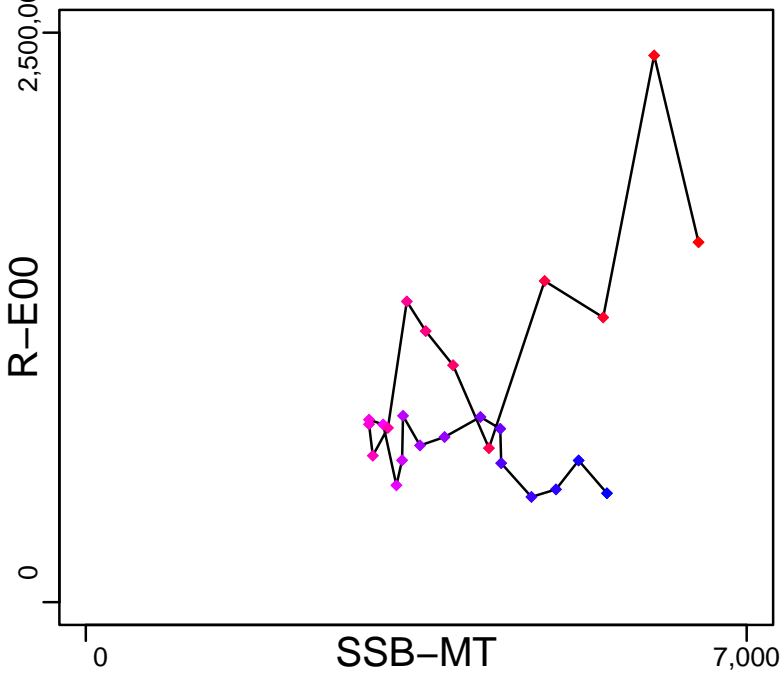
Kobe MSYpref (1981–2013–SISIMP2016)



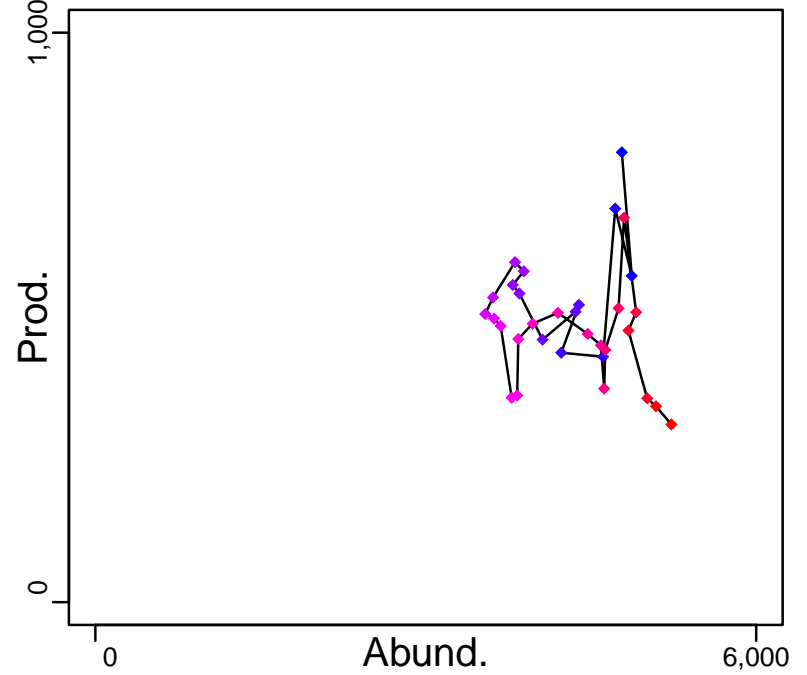
Kobe MGTpref (1981–2013–SISIMP2016)



Spawner Recruit (1981–2006–JENSEN)



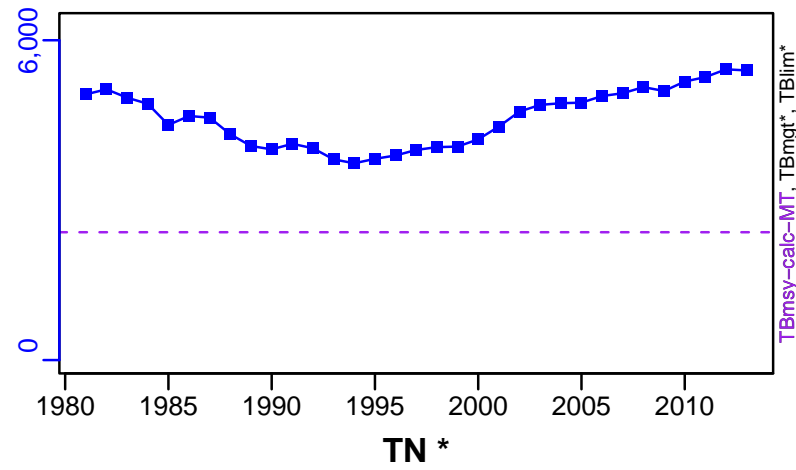
Production (1981–2013–SISIMP2016)



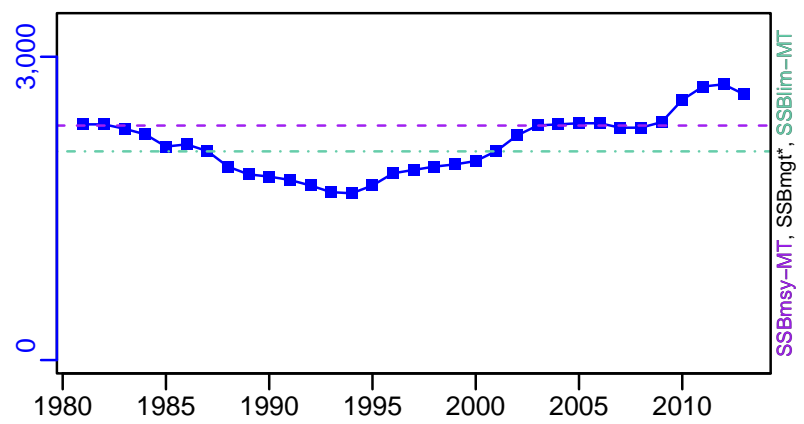
◆ Start Year ◆ End Year \* No Data

# Mutton snapper Southern Atlantic coast and Gulf of Mexico [MUTSNAPSATLCGM]

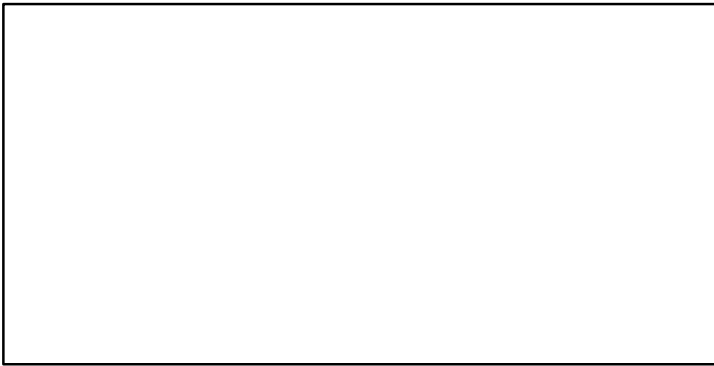
TB-MT (1981–2013–SISIMP2016)



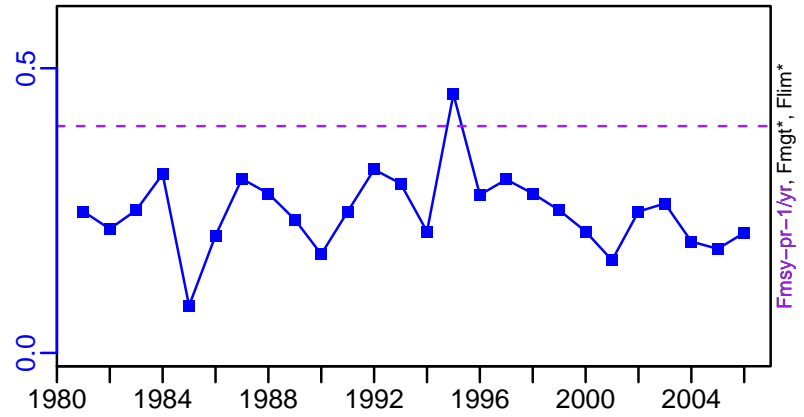
SSB-MT (1981–2013–SISIMP2016)



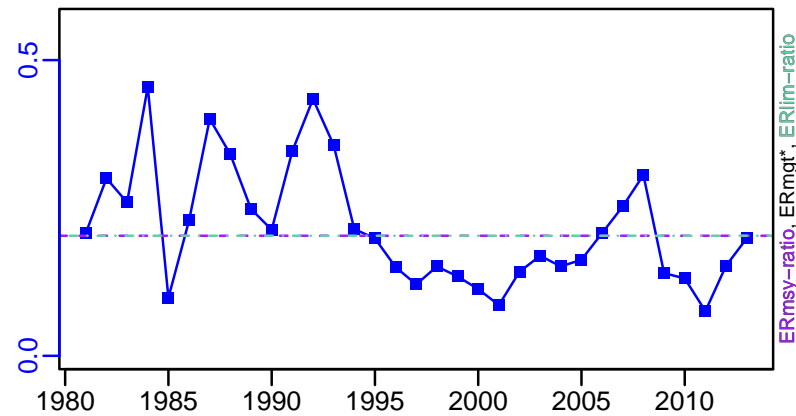
TN \*



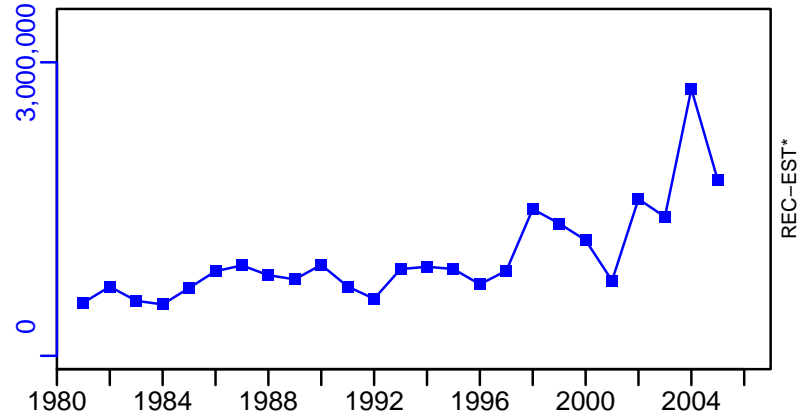
F-1/yr (1981–2006–JENSEN)



ER-ratio (1981–2013–SISIMP2016)



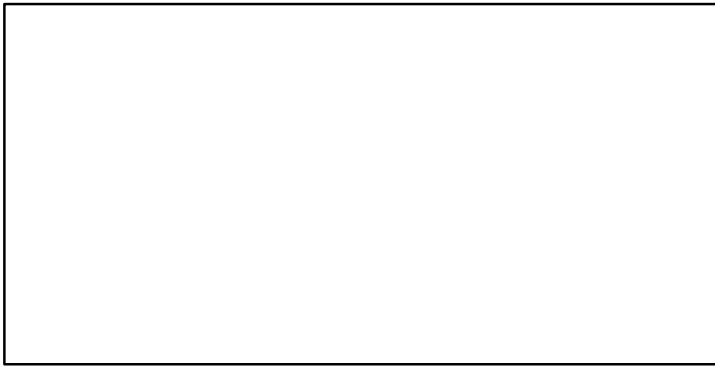
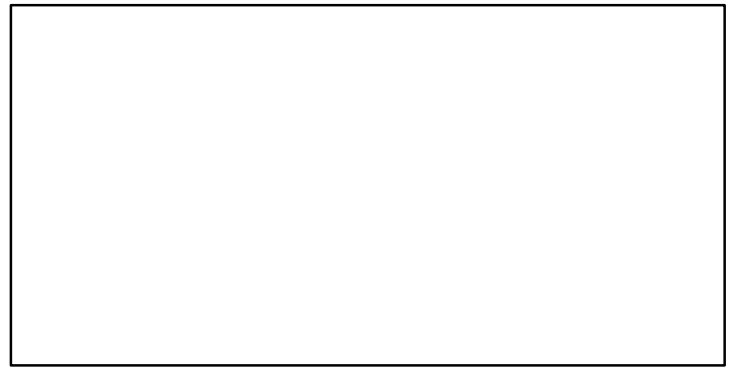
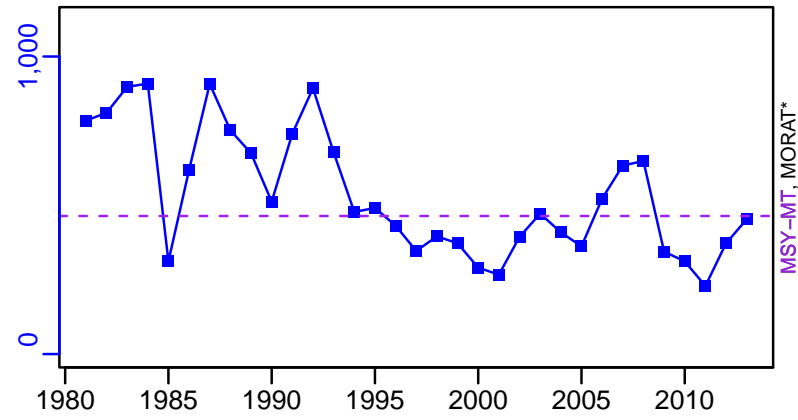
R-E00 (1981–2006–JENSEN)



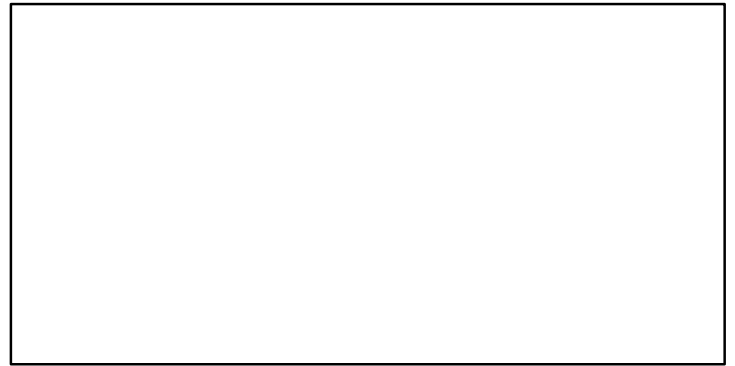
# Mutton snapper Southern Atlantic coast and Gulf of Mexico [MUTSNAPSATLCGM]

TC-MT, TL\*, RecC\* (1981-2013-SISIMP2016)

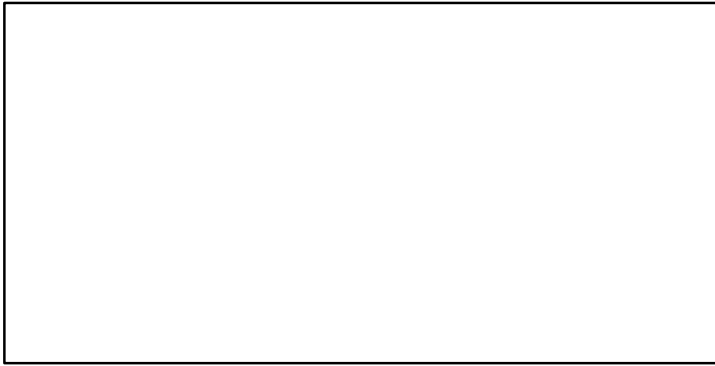
TAC\*, Cpair\*, Cadv\*



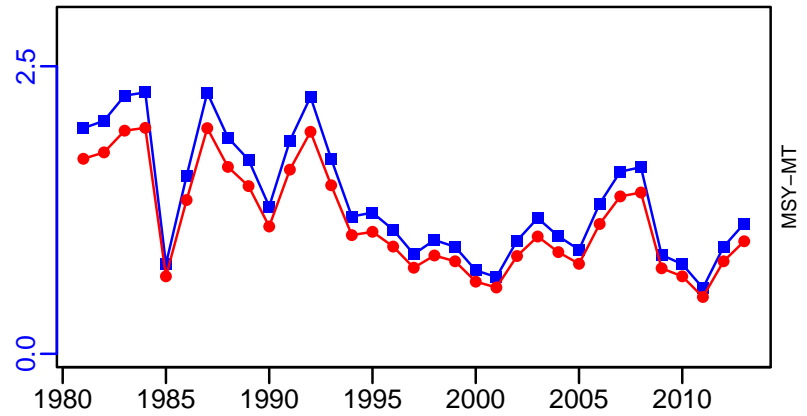
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1981-2013-SISIMP2016)



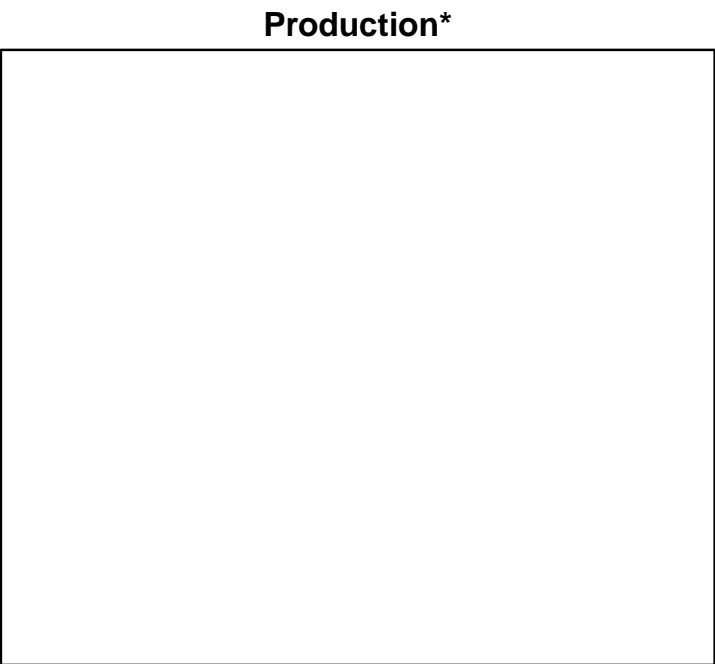
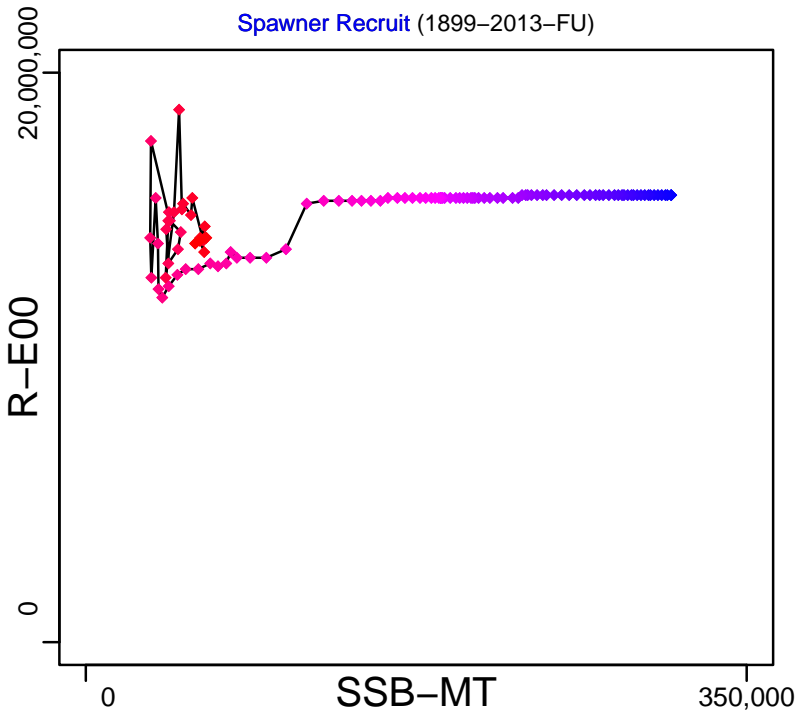
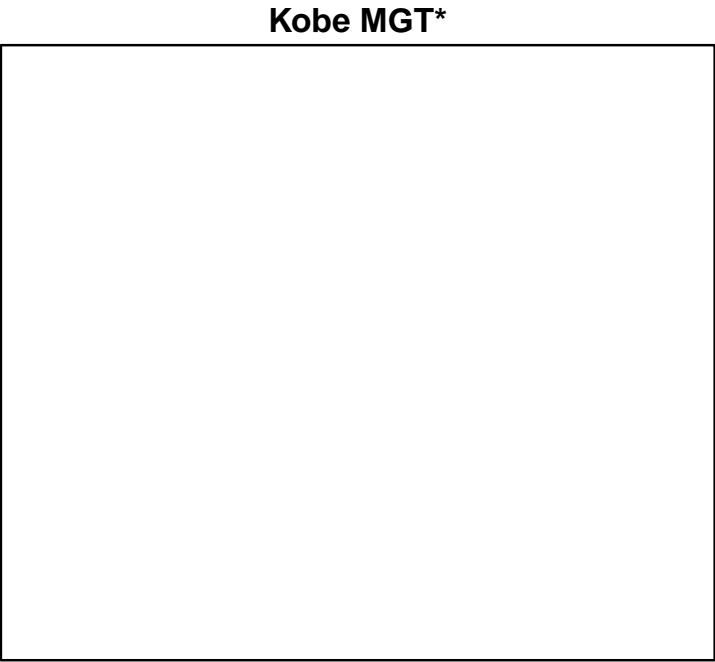
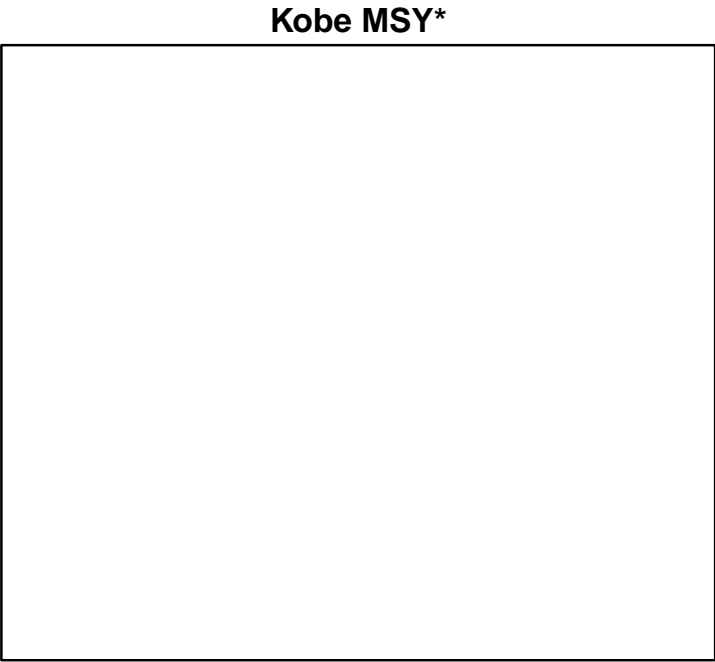
- 1st listed time series
- 2nd listed time series
- 3rd listed time series
- MSY
- MORAT
- No Data

**New Zealand snapper New Zealand SNA 1 Bay of Plenty and Hauraki Gulf  
[NZSNAPNZ1BOP-HAGU]**

Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	NIWA-NZSNAPNZ1BOP-HAGU-1899-2013-FU
<b>Area</b>	New Zealand SNA 1 Bay of Plenty and Hauraki Gulf
<b>Management Authority</b>	Ministry of Fisheries, New Zealand national management
<b>Assessor</b>	National Institute of Water and Atmospheric Research
<b>Asmts in RAM</b>	2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2013	122,479
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2013	122,479
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2013	306,198
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2013	0.075
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

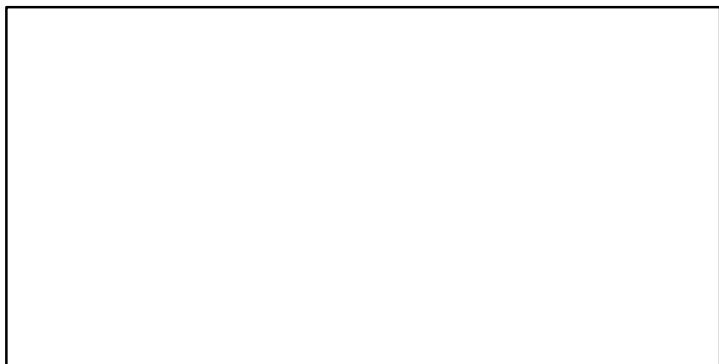
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2013	55,600	-	4 to 20
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	$1.4 \times 10^7$	Both	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2013	2300		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2013	0.454		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2013	0.454		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		



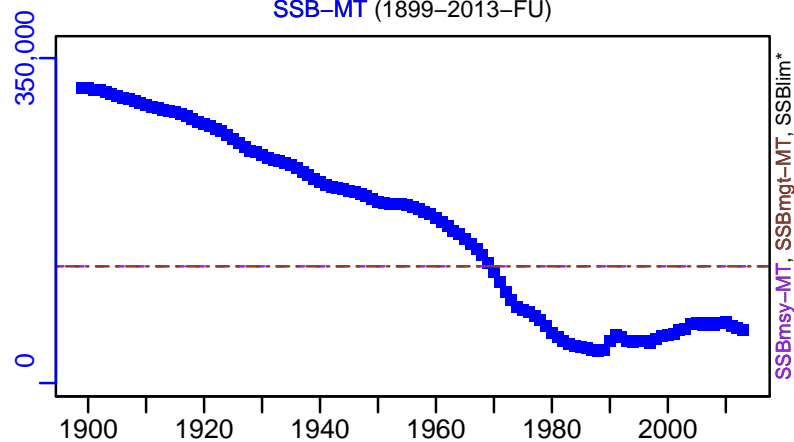
◆ Start Year ◆ End Year \* No Data

New Zealand snapper New Zealand SNA 1 Bay of Plenty and Hauraki Gulf [NZSNAPNZ1BOP-HAGU]

TB\*



SSB-MT (1899-2013-FU)



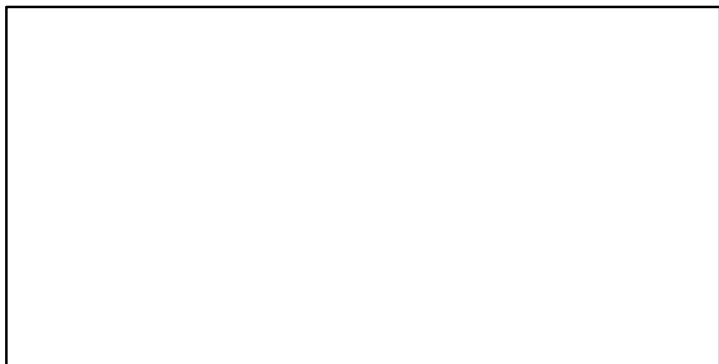
TN \*



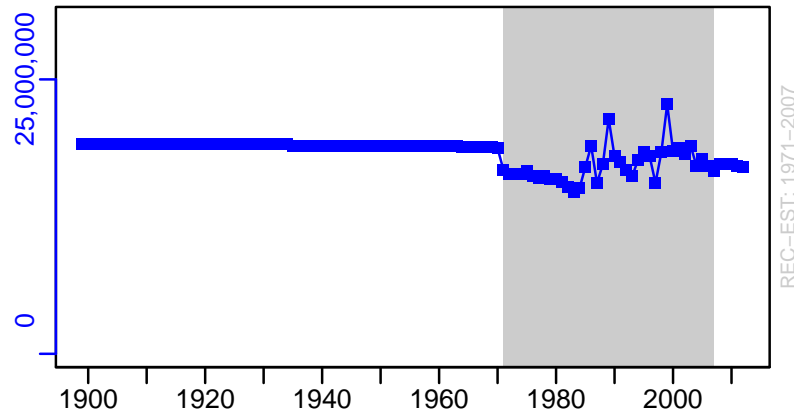
F\*



ER\*



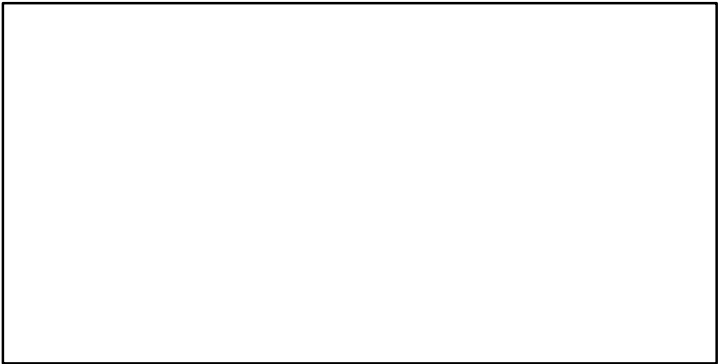
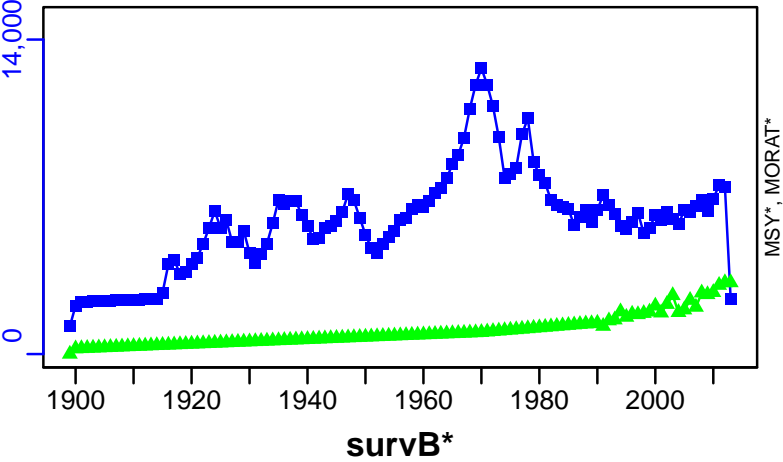
R-E00 (1899-2013-FU)



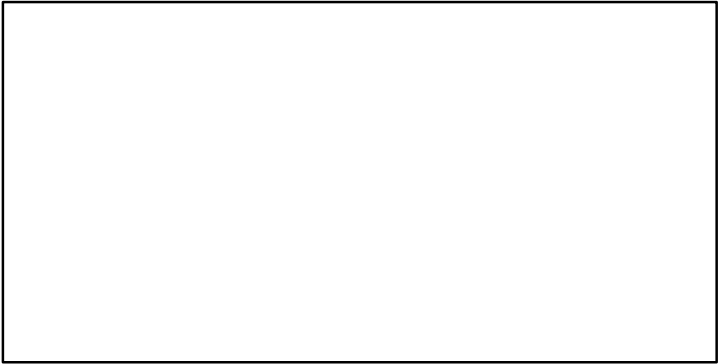
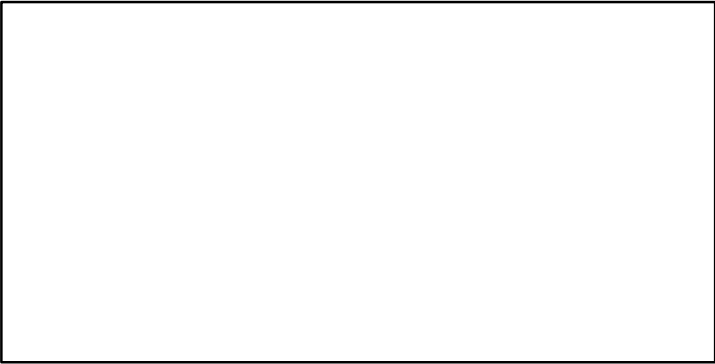
New Zealand snapper New Zealand SNA 1 Bay of Plenty and Hauraki Gulf [NZSNAPNZ1BOP-HAGU]

TC-MT, TL\*, RecC-MT (1899-2013-FU)

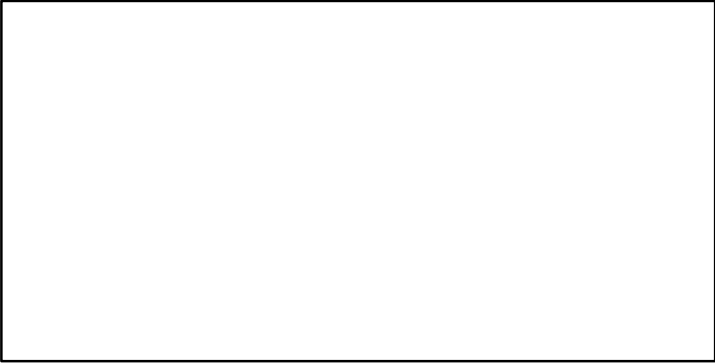
TAC\*, Cpair\*, Cadv\*



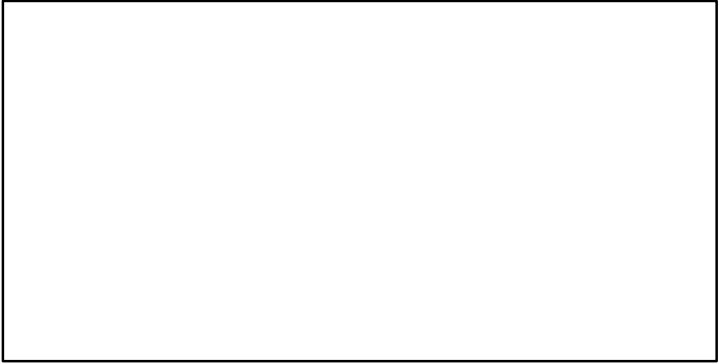
CPUE\*



EFFORT\*



CdivMSY\*





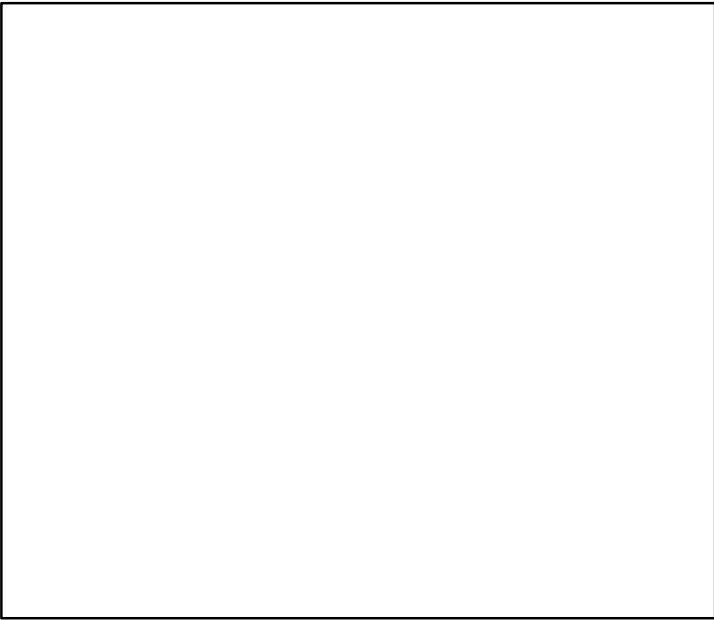
## New Zealand snapper New Zealand SNA 1 east Northland [NZSNAPNZ1ENLD]

Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	NIWA-NZSNAPNZ1ENLD-1899-2013-FU
<b>Area</b>	New Zealand SNA 1 east Northland
<b>Management Authority</b>	Ministry of Fisheries, New Zealand national management
<b>Assessor</b>	National Institute of Water and Atmospheric Research
<b>Asmts in RAM</b>	2013

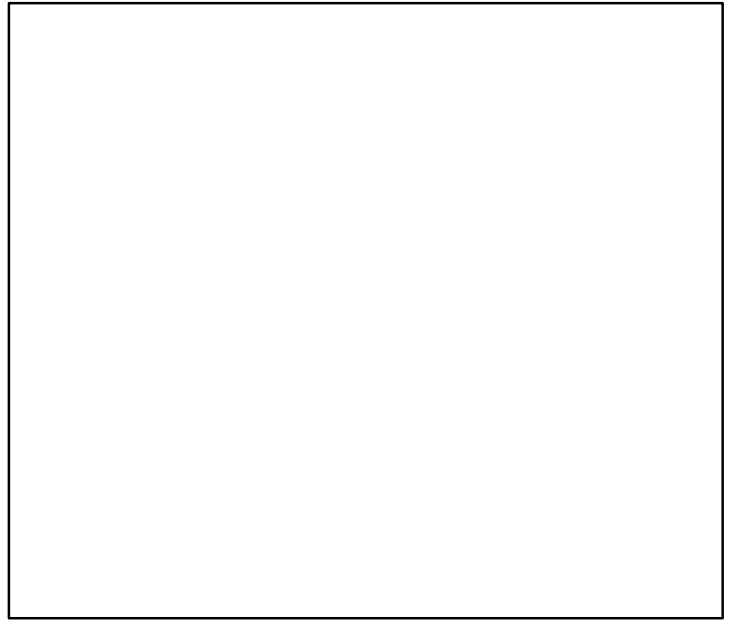
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2013	28,570
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2013	28,570
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2013	71,425
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2013	0.075
<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	2013	16,200	-	4 to 20
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	3,730,000	Both	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2013	1750		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2013	0.567		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2013	0.567		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

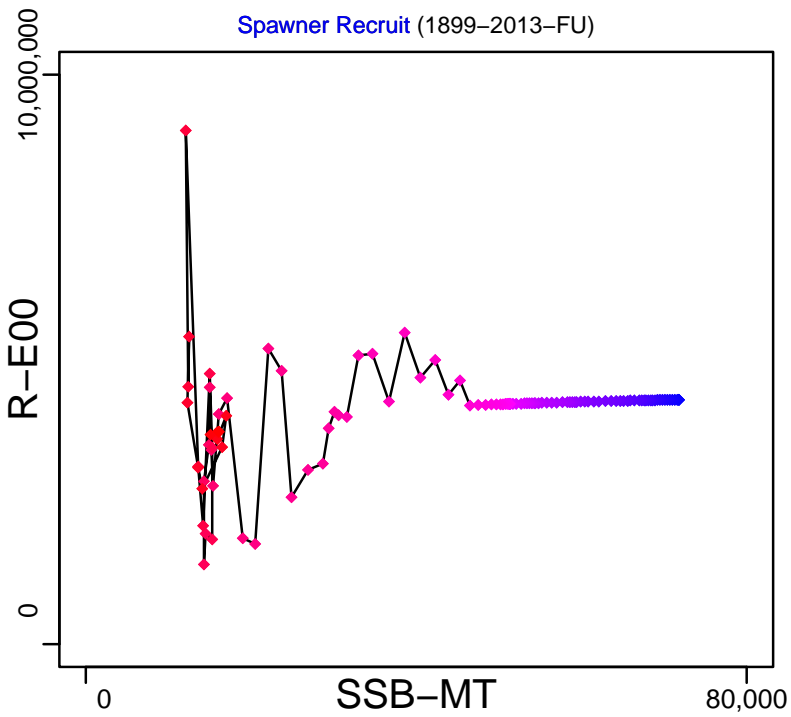
**Kobe MSY\***



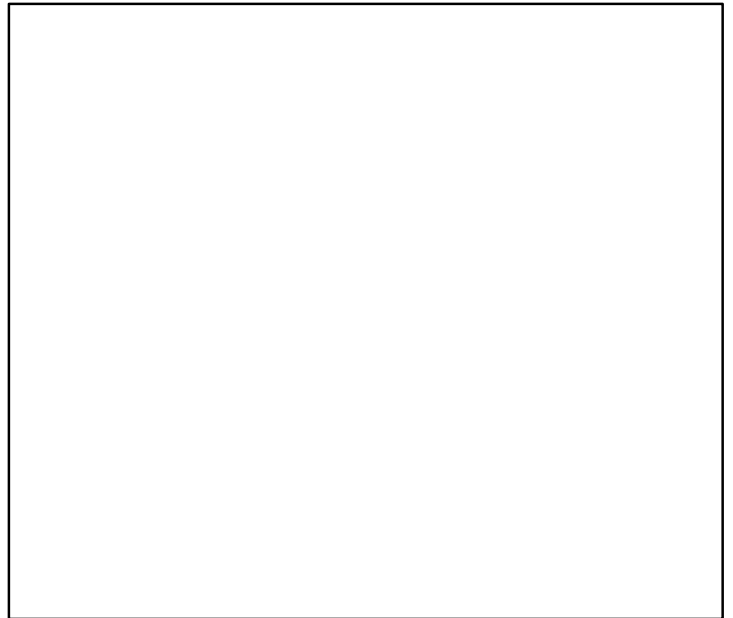
**Kobe MGT\***



**Spawner Recruit** (1899–2013–FU)



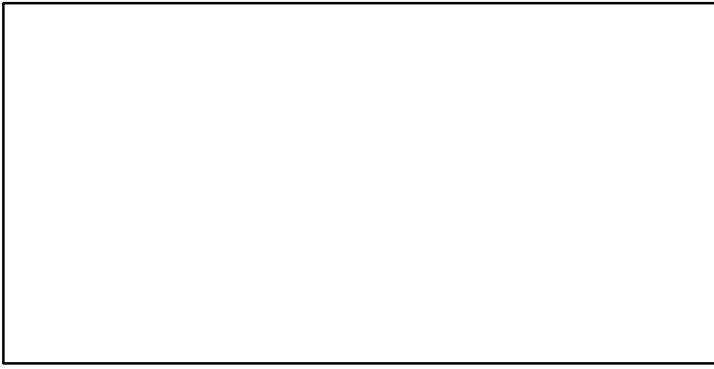
**Production\***



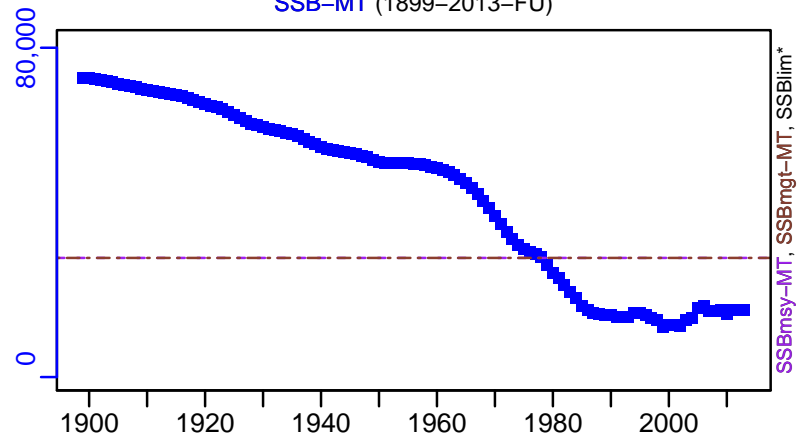
◆ Start Year ◆ End Year \* No Data

# New Zealand snapper New Zealand SNA 1 east Northland [NZSNAPNZ1ENLD]

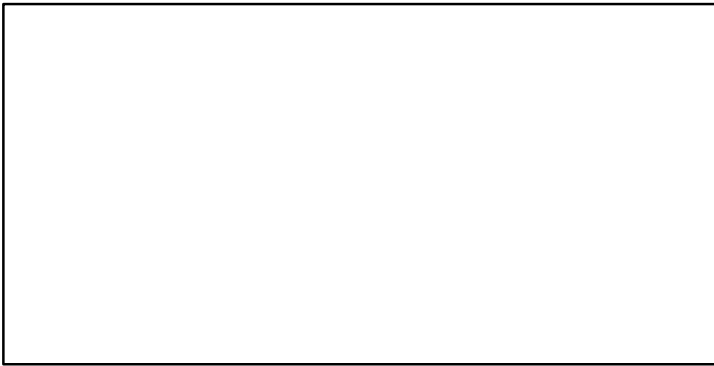
TB\*



SSB-MT (1899–2013–FU)



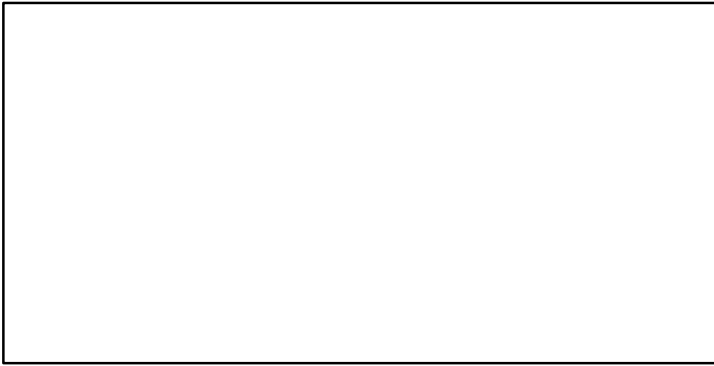
TN \*



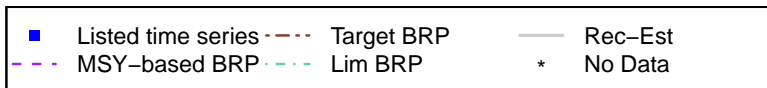
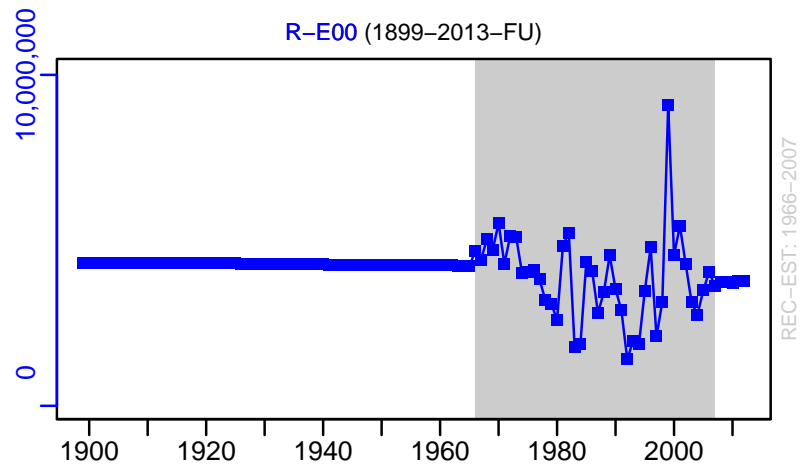
F\*



ER\*



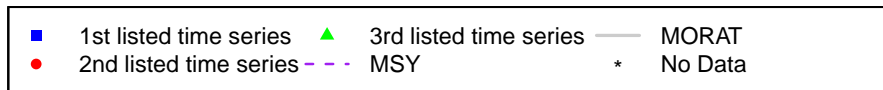
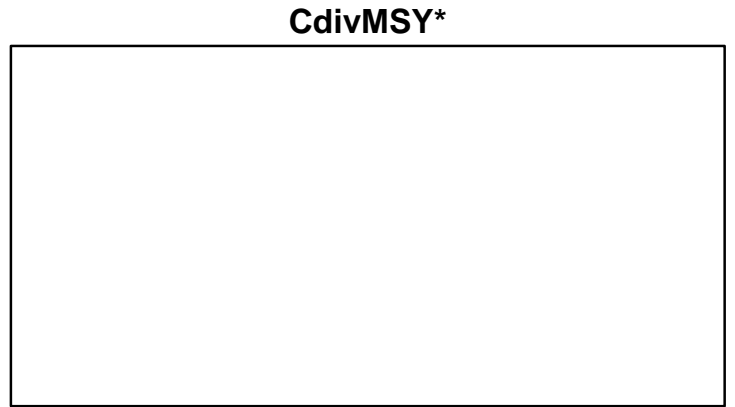
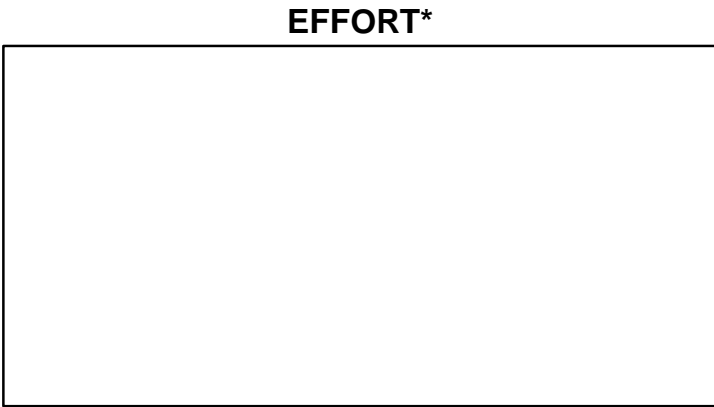
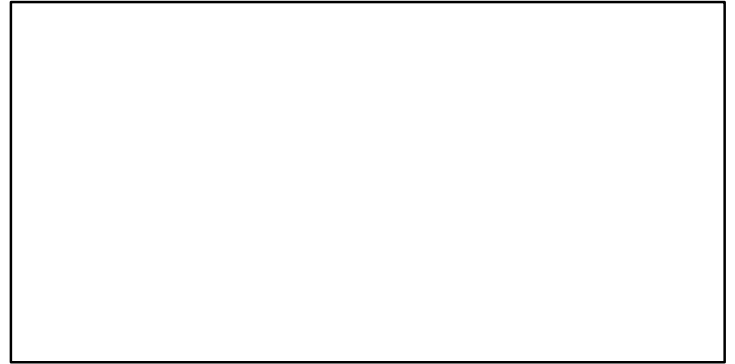
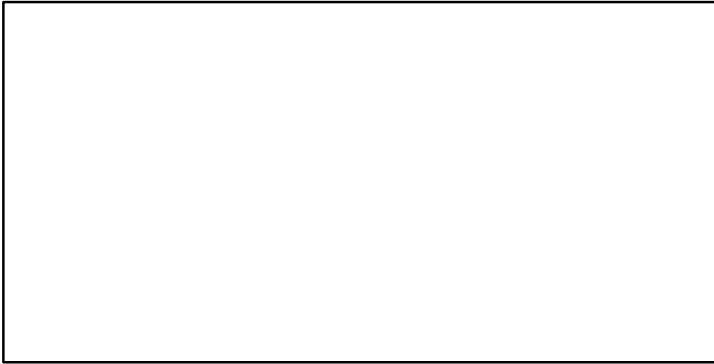
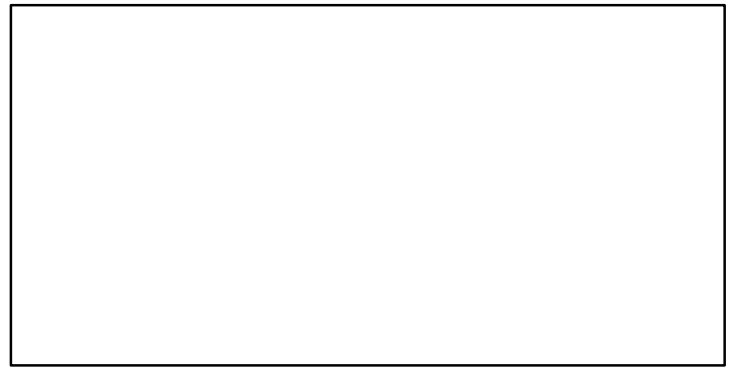
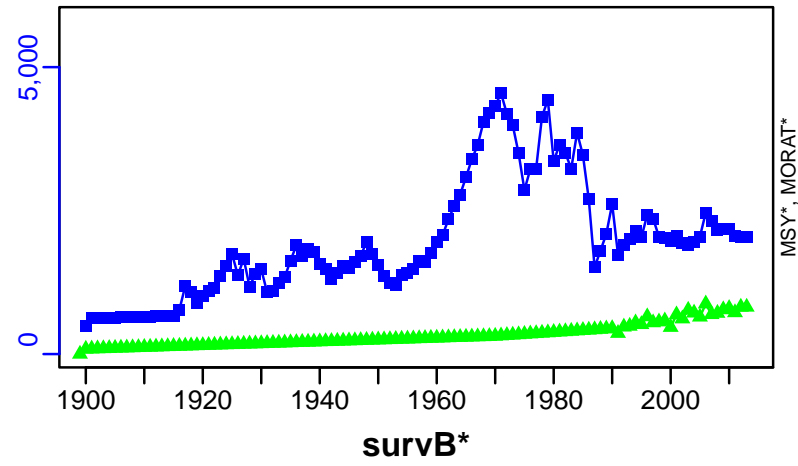
R-E00 (1899–2013–FU)



New Zealand snapper New Zealand SNA 1 east Northland [NZSNAPNZ1ENLD]

TC-MT, TL\*, RecC-MT (1899-2013-FU)

TAC\*, Cpair\*, Cadv\*



## New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

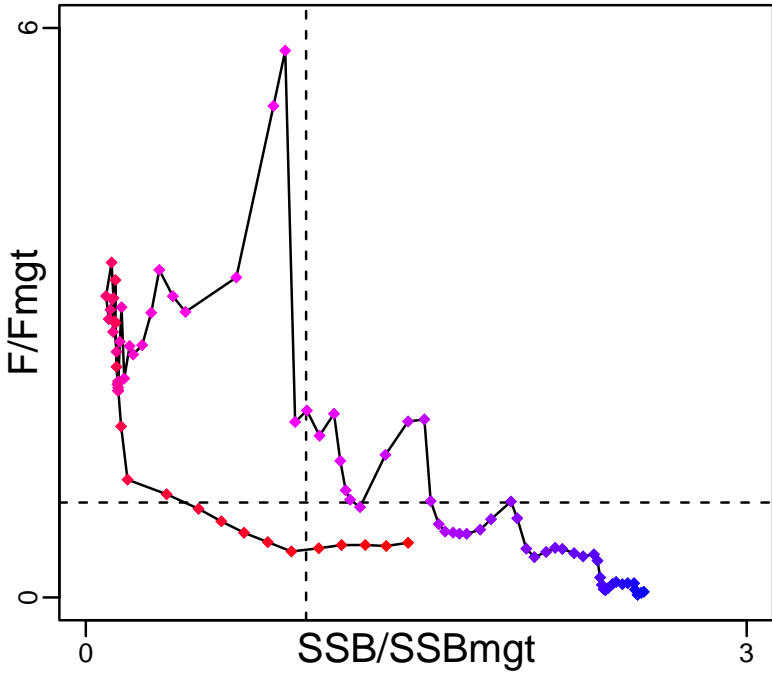
Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	NZMFishINSHOREWG-NZSNAPNZ7-1931-2023-LANGLEY
<b>Area</b>	New Zealand SNA 7
<b>Management Authority</b>	Ministry of Fisheries, New Zealand national management
<b>Assessor</b>	Inshore Working Group
<b>Asmts in RAM</b>	2014, 2021, 2023

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2014	6199
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2021	6400
<b>Fmgt</b>	Fmgt-1/yr	2021	0.052
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2014	15,497
<b>MSY</b>	MSY-MT	2023	889
<b>M</b>	M-1/yr	2023	0.075
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

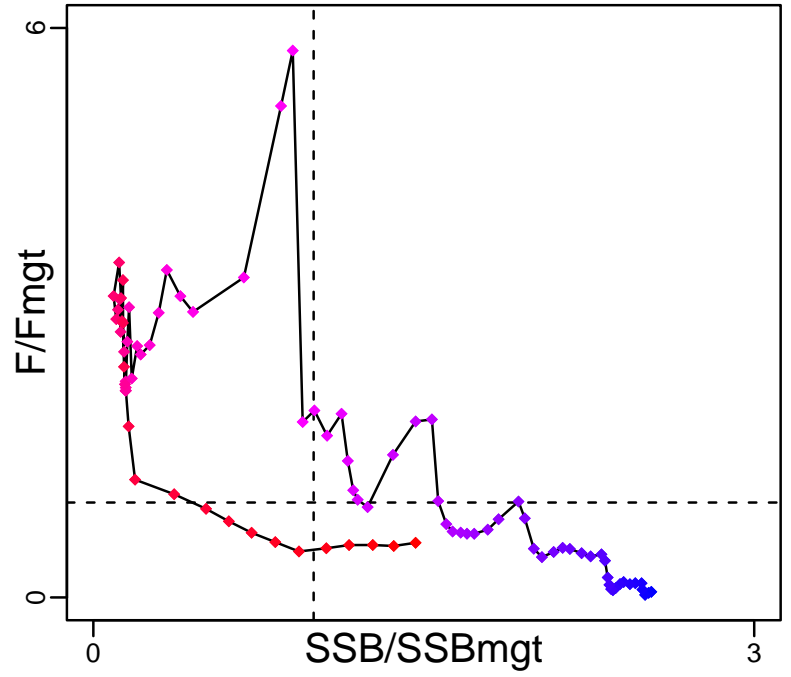
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2023	13,154	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2023	944,642	Both	-
<b>F</b>	F-1/yr	2021	0.03	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2023	627		
<b>TL</b>	TL-MT	2023	495		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2014	0.729		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2023	0.453		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	1.463		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	0.576		
<b>ER/ERmgt</b>	-	-	-		

# New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

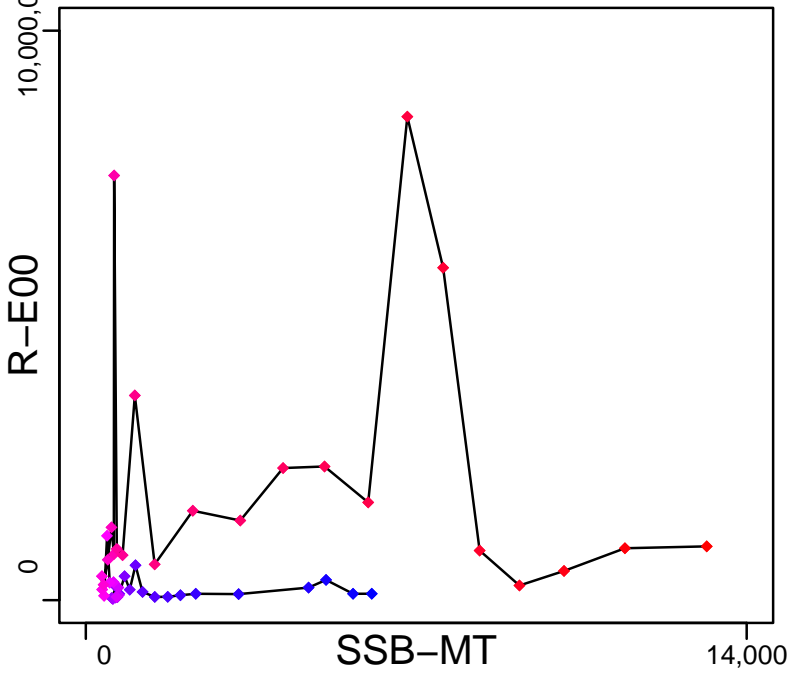
Kobe MSYpref (1931–2021–HIVELY)



Kobe MGTpref (1931–2021–HIVELY)



Spawner Recruit (1931–2023–LANGLEY)



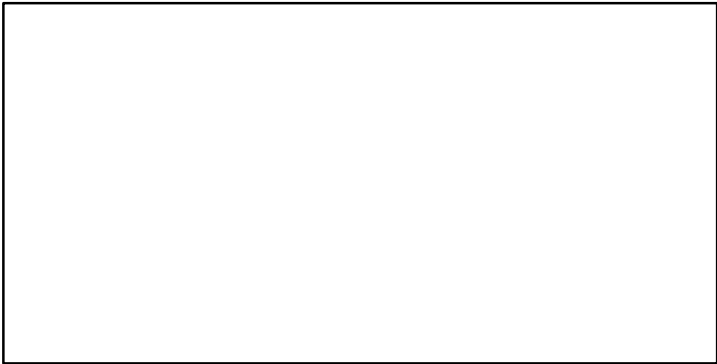
Production\*



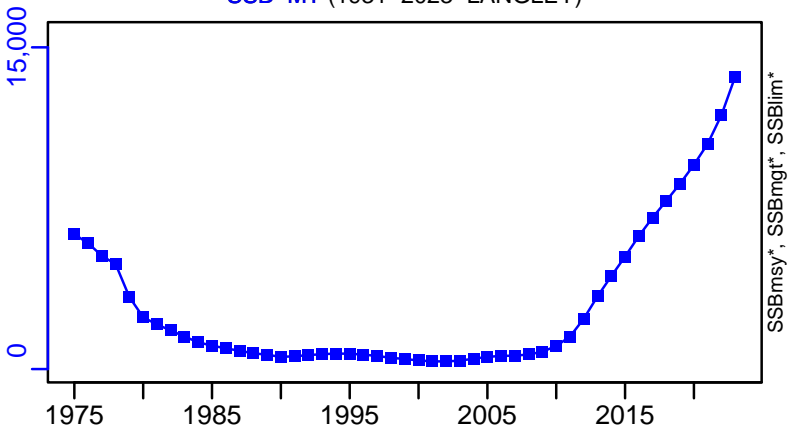
◆ Start Year ◆ End Year \* No Data

New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

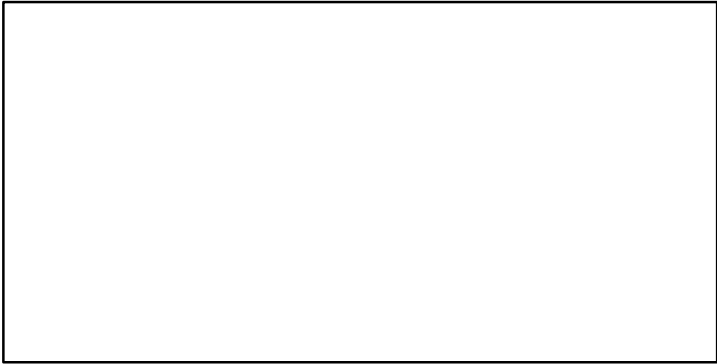
TB\*



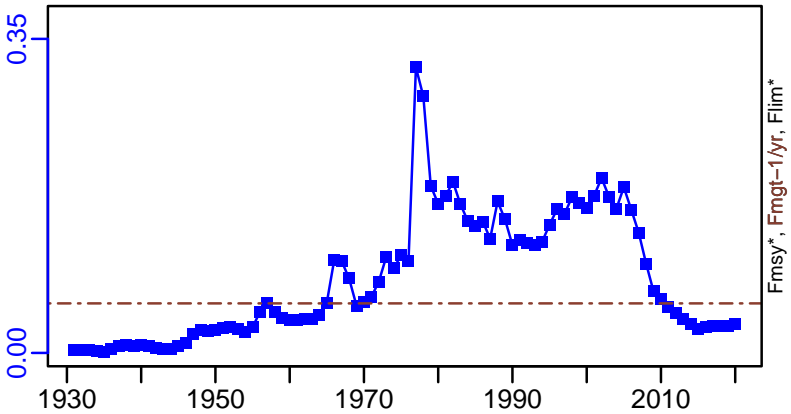
SSB-MT (1931-2023-LANGLEY)



TN \*



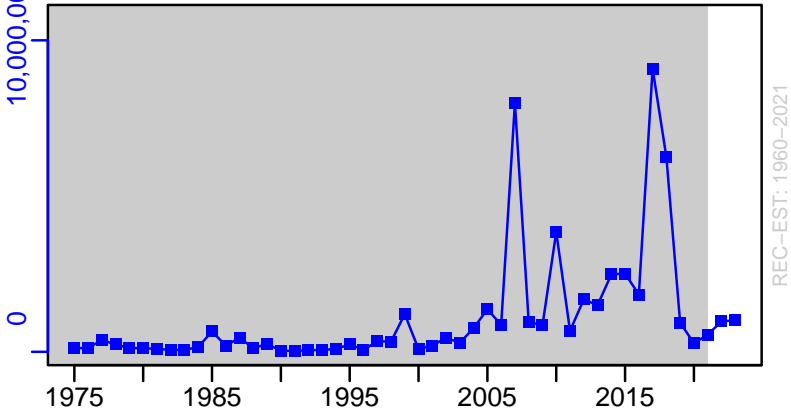
F-1/yr (1931-2021-HIVELY)



ER\*

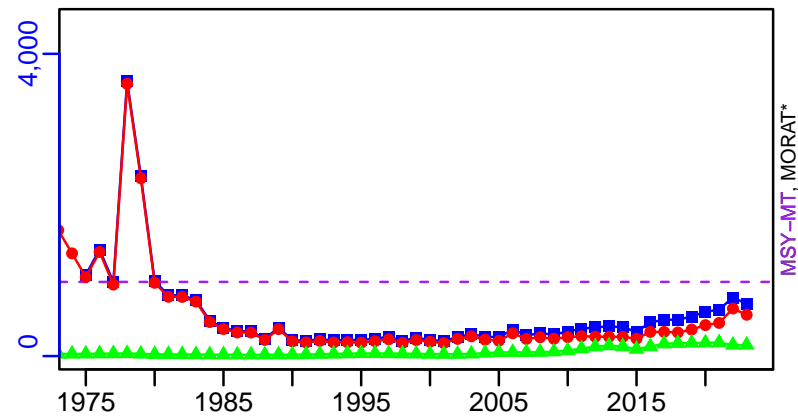


R-E00 (1931-2023-LANGLEY)

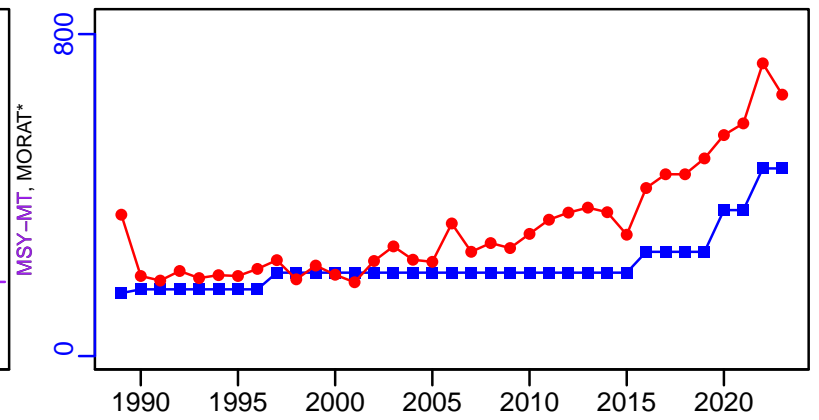


# New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

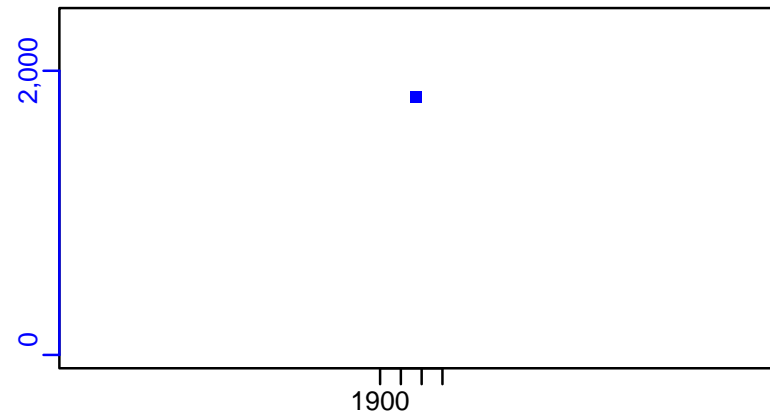
TC-MT, TL-MT, RecC-MT (1931-2023-LANGLEY)



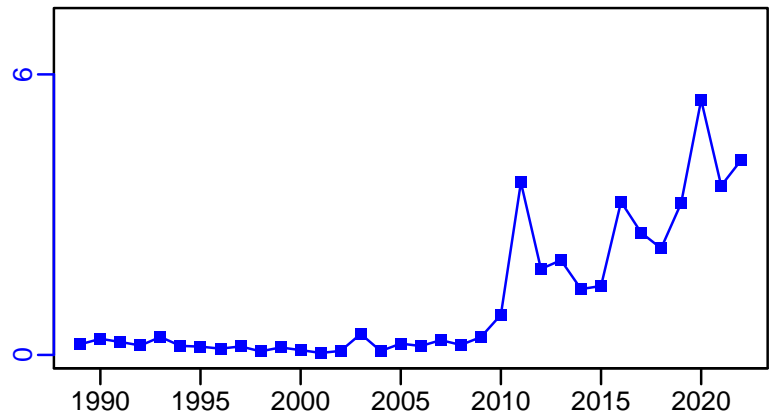
TAC-MT, Cpair-MT, Cadv\* (1931-2023-LANGLEY)



survB\_absolute-MT (1931-2023-LANGLEY)



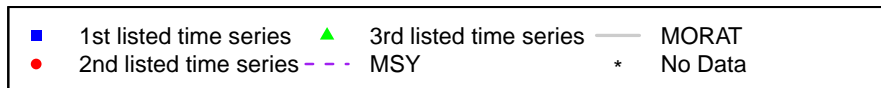
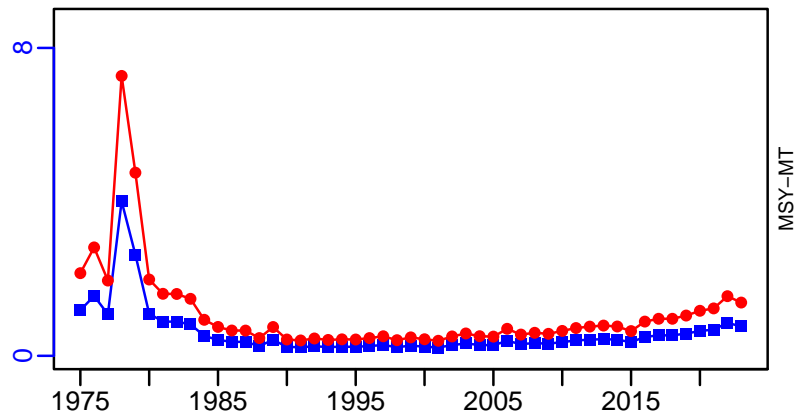
CPUE-index (1931-2023-LANGLEY)



**EFFORT\***



TC-MT/MSY-MT, CdivMEANC-ratio, (1931-2023-LANGLEY)





**New Zealand snapper New Zealand Area 8 (Auckland and Central West)  
[NZSNAPNZ8]**

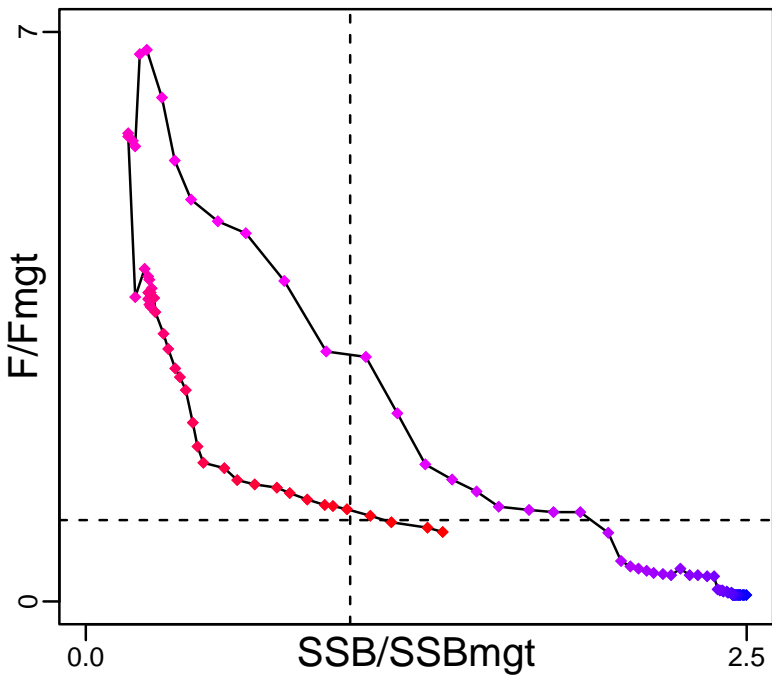
Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	NZMFishINSHOREWG-NZSNAPNZ8-1931-2024-LANGLEY
<b>Area</b>	New Zealand Area 8 (Auckland and Central West)
<b>Management Authority</b>	Ministry of Fisheries, New Zealand national management
<b>Assessor</b>	Inshore Working Group
<b>Asmts in RAM</b>	2005, 2021, 2024

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2005	37,979
<b>SSBmsy</b>	SSBmsy-MT	2005	23,536
<b>Fmsy</b>	Fmsy-1/yr	2005	0.092
<b>ERmsy</b>	ERmsy-ratio	2005	0.06
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2021	39,728
<b>Fmgt</b>	Fmgt-1/yr	2021	0.054
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2005	120,884
<b>MSY</b>	MSY-MT	2024	2463
<b>M</b>	M-1/yr	2024	0.075
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

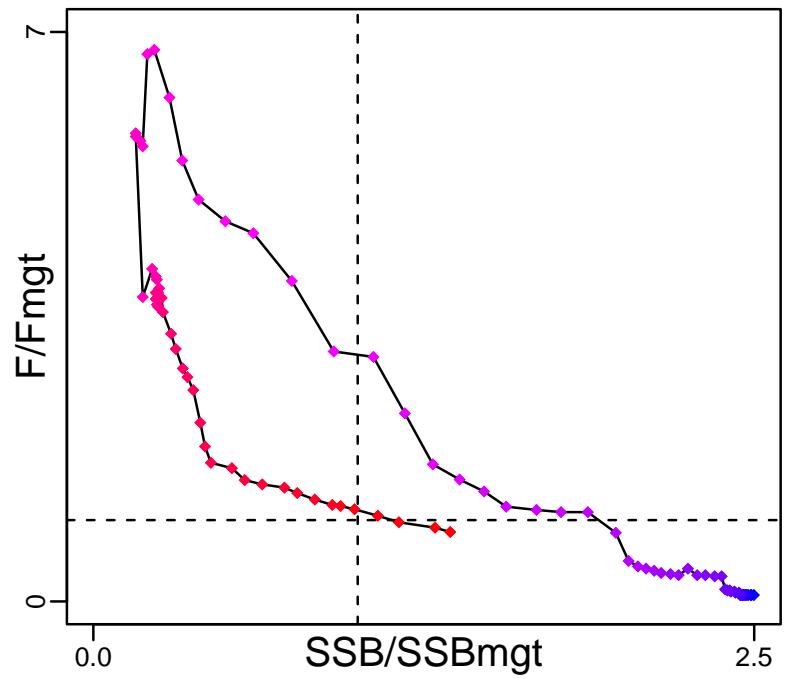
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2024	49,830	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2024	7,862,205	Both	-
<b>F</b>	F-1/yr	2021	0.046	-	-
<b>ER</b>	ER-ratio	2005	0.235	-	-
<b>TC</b>	TC-MT	2024	3187		
<b>TL</b>	TL-MT	2024	1760		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2005	0.353		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2024	0.999		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2005	3.906		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	1.35		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	0.853		
<b>ER/ERmgt</b>	-	-	-		

# New Zealand snapper New Zealand Area 8 (Auckland and Central West) [NZSNAPNZ8]

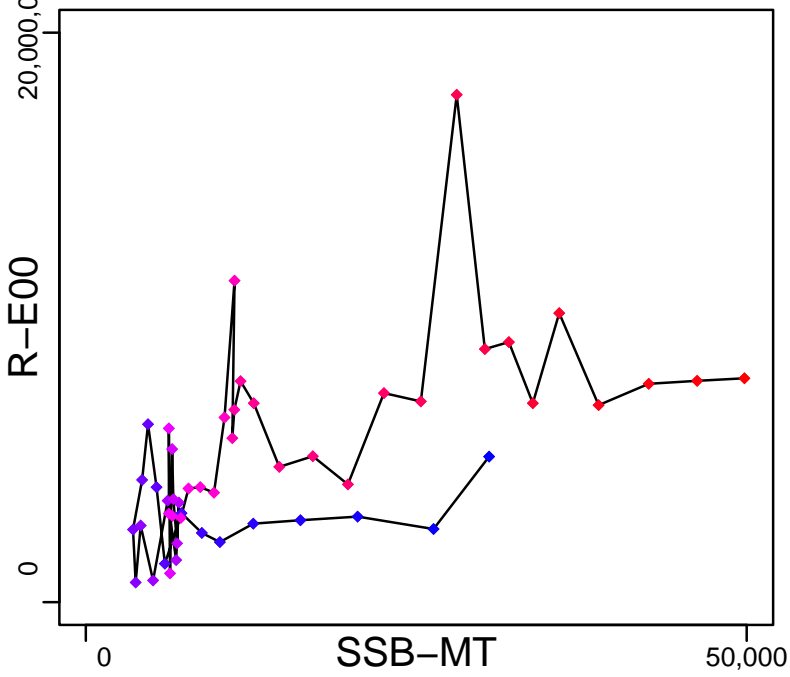
Kobe MSYpref (1931–2021–HIVELY)



Kobe MGTpref (1931–2021–HIVELY)



Spawner Recruit (1931–2024–LANGLEY)



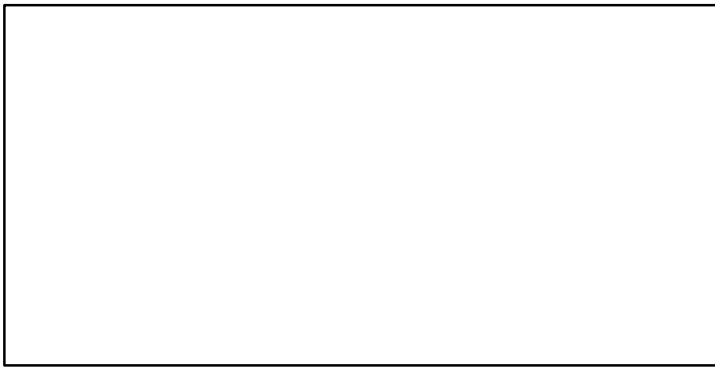
Production\*



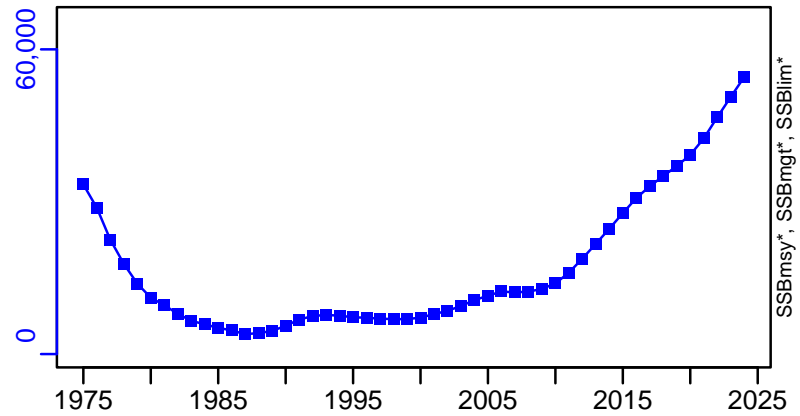
◆ Start Year ◆ End Year \* No Data

# New Zealand snapper New Zealand Area 8 (Auckland and Central West) [NZSNAPNZ8]

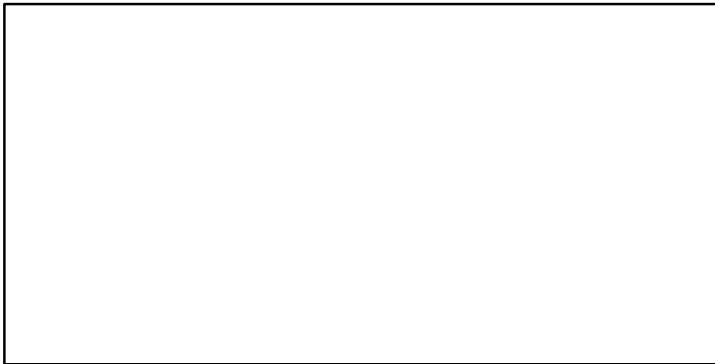
TB\*



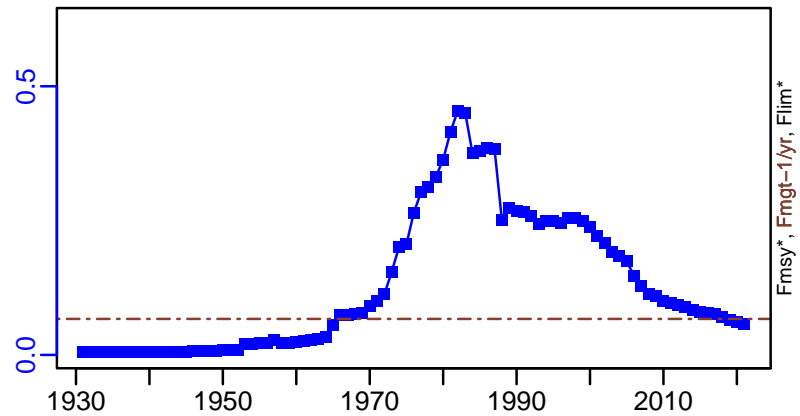
SSB-MT (1931–2024–LANGLEY)



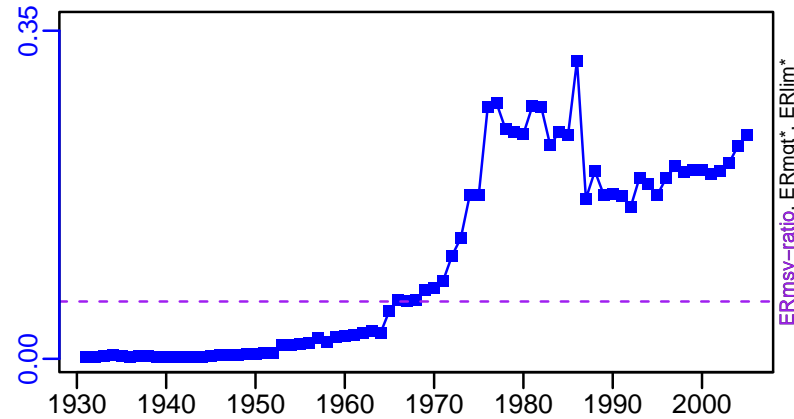
TN \*



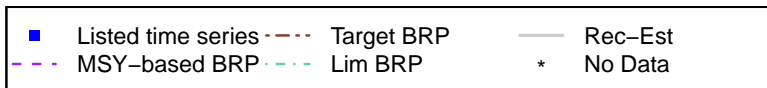
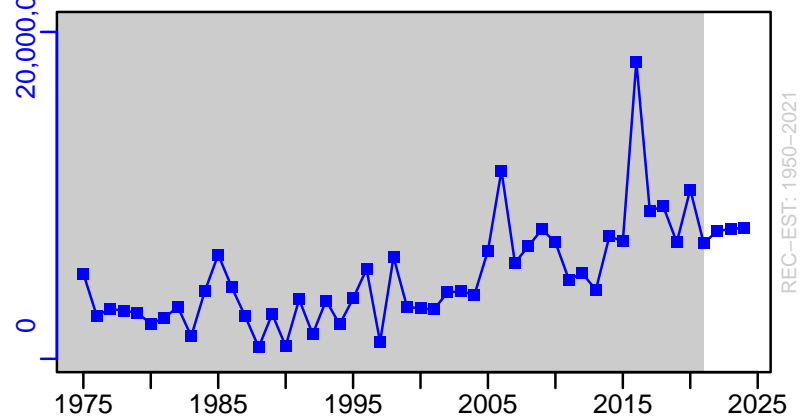
F-1/yr (1931–2021–HIVELY)



ER-ratio (1931–2005–JENSEN)

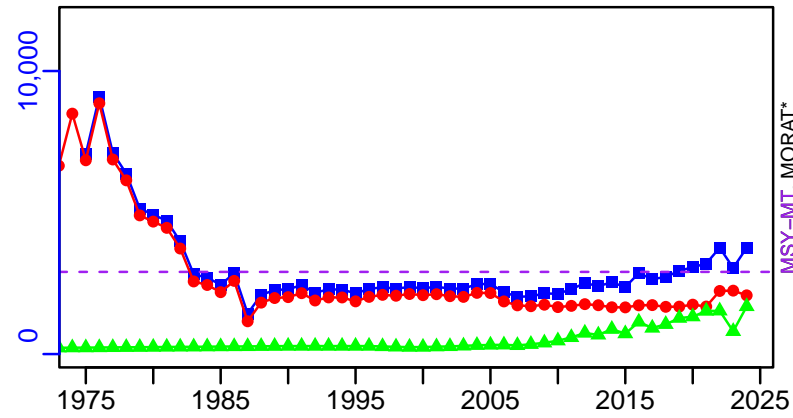


R-E00 (1931–2024–LANGLEY)

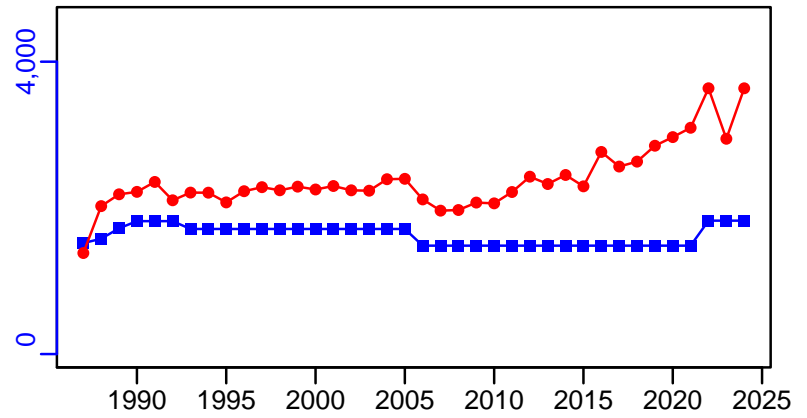


# New Zealand snapper New Zealand Area 8 (Auckland and Central West) [NZSNAPNZ8]

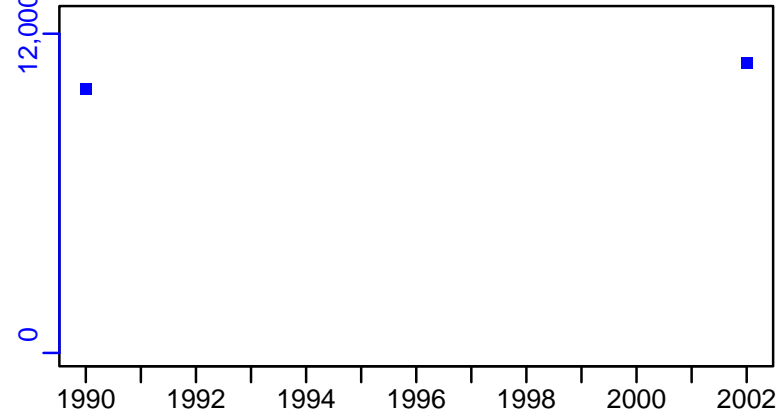
TC-MT, TL-MT, RecC-MT (1931-2024-LANGLEY)



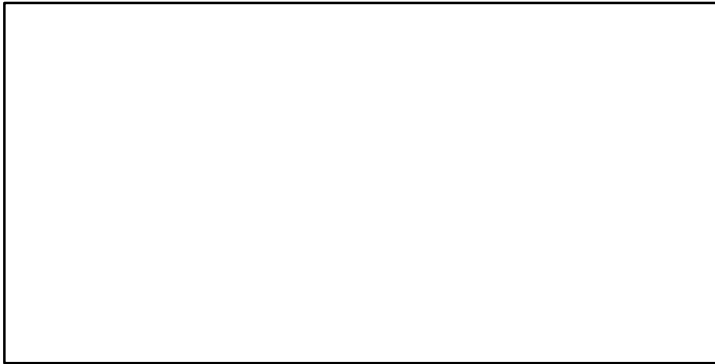
TAC-MT, Cpair-MT, Cadv\* (1931-2024-LANGLEY)



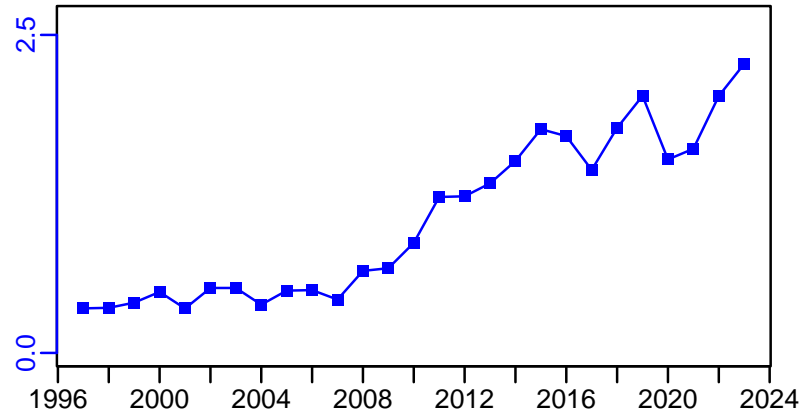
survB\_absolute-MT (1931-2024-LANGLEY)



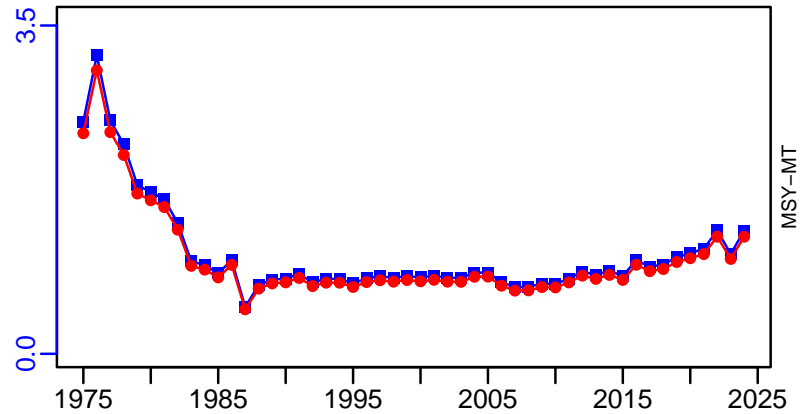
**EFFORT\***



CPUE-index (1931-2024-LANGLEY)



TC-MT/MSY-MT, CdivMEANC-ratio, (1931-2024-LANGLEY)



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

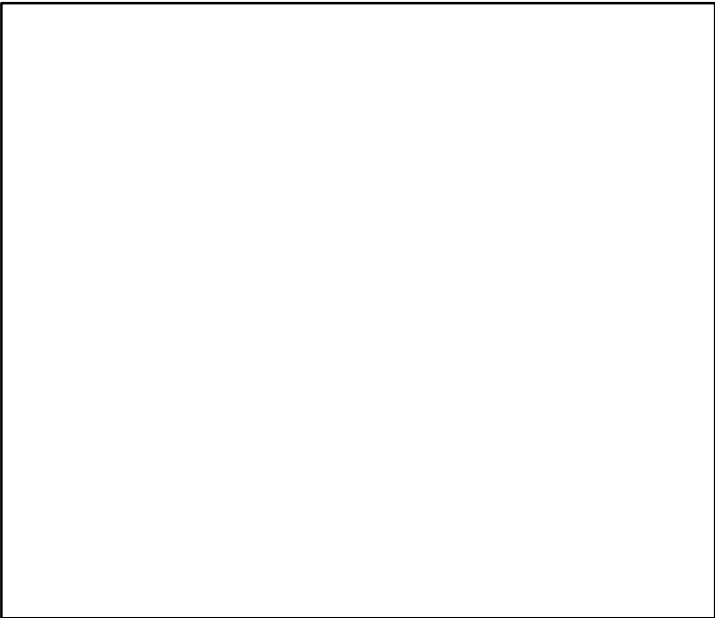
## Pandora spp North West Africa [PANDSPPNWA]

Metadata	
<b>Scientific Name</b>	Pagellus spp
<b>Current Assess ID</b>	FAO-DR-PANDSPPNWA-1990-2016-ASHBROOK
<b>Area</b>	North West Africa
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2016

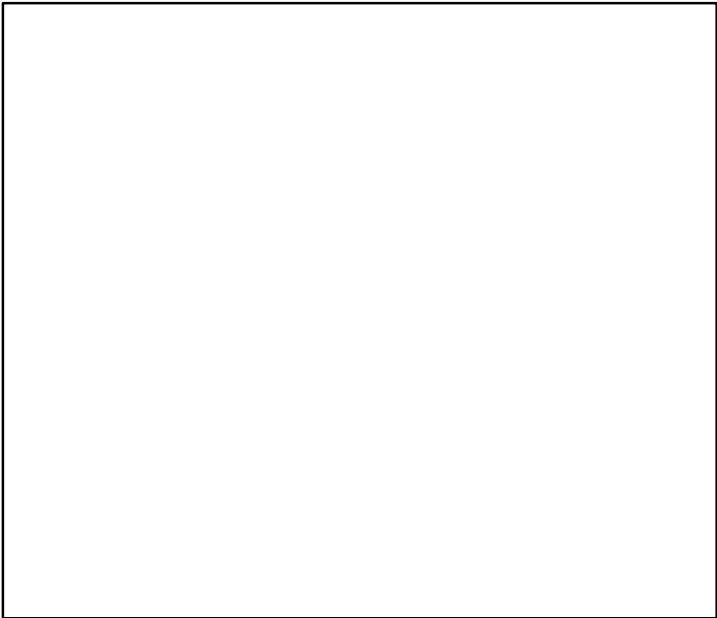
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2701		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

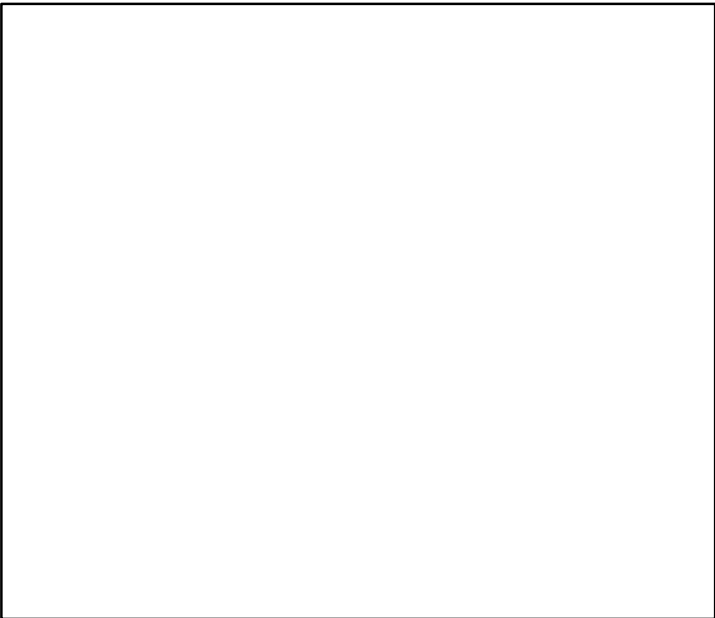
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

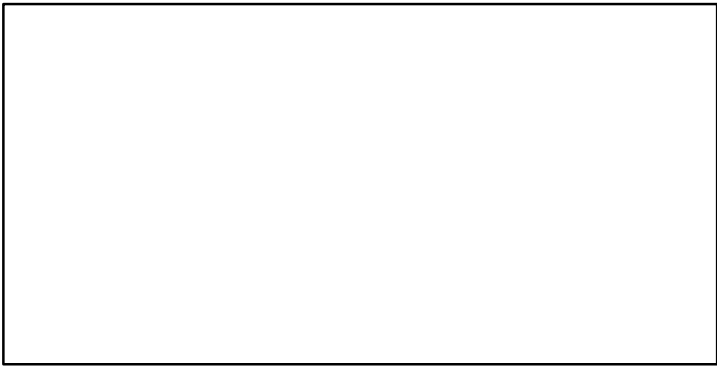
TB\*



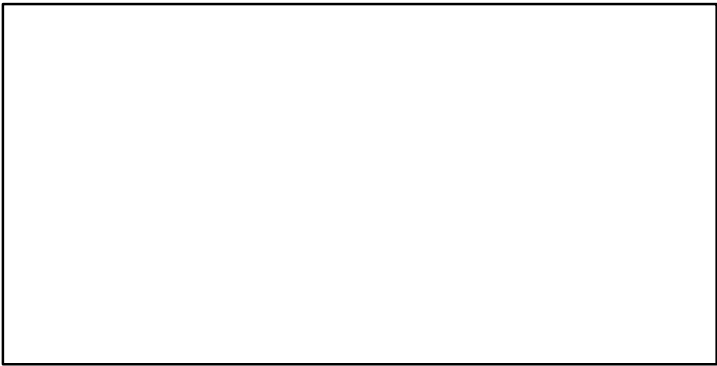
SSB\*



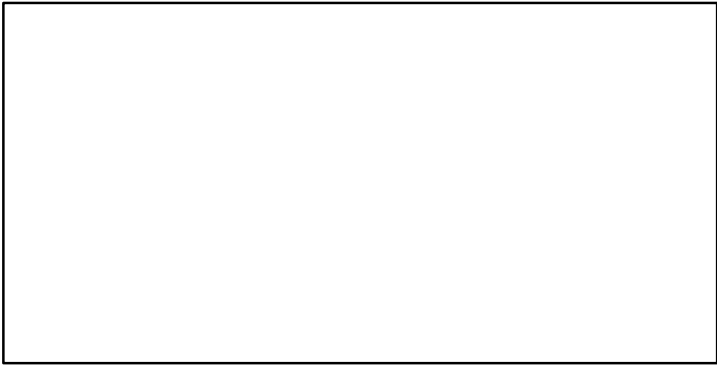
TN \*



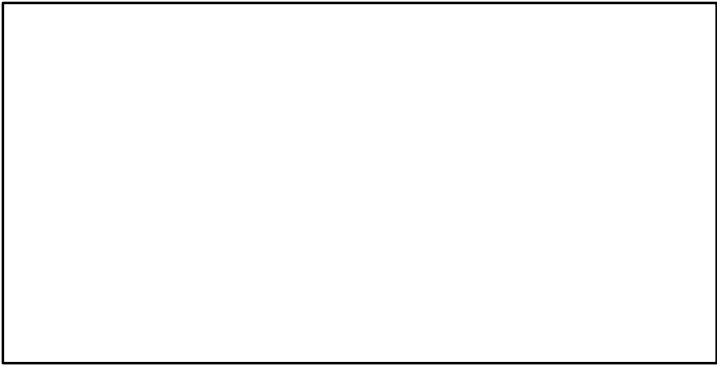
F\*



ER\*

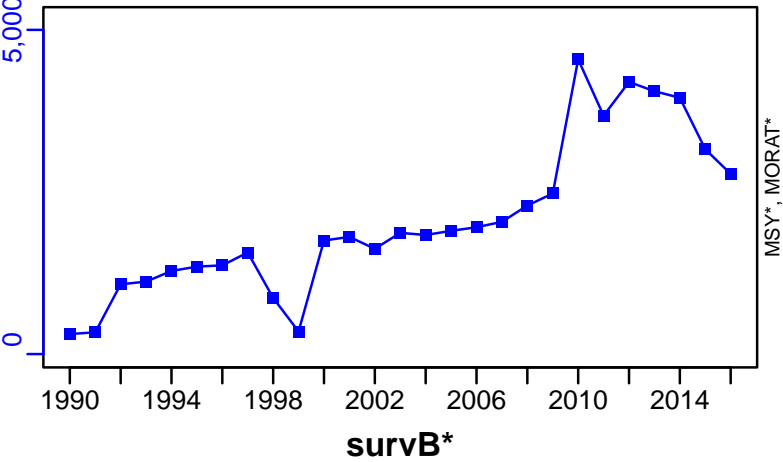


Recruits\*



Pandora spp North West Africa [PANDSPPNWA]

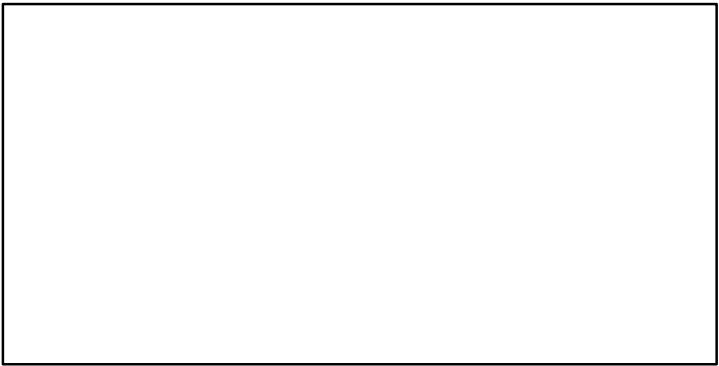
TC-MT, TL\*, RecC\* (1990-2016-ASHBROOK)



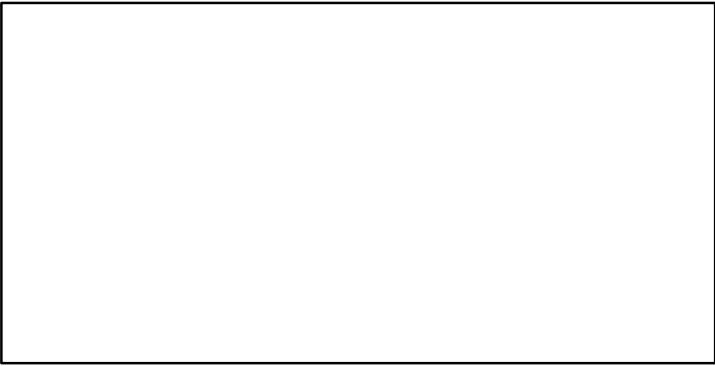
TAC\*, Cpair\*, Cadv\*



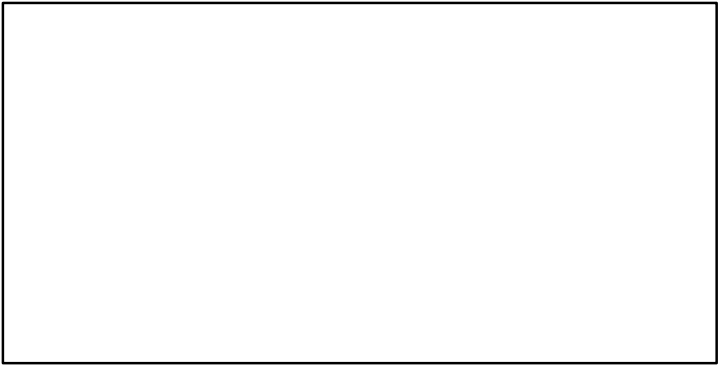
CPUE\*



EFFORT\*



CdivMSY\*





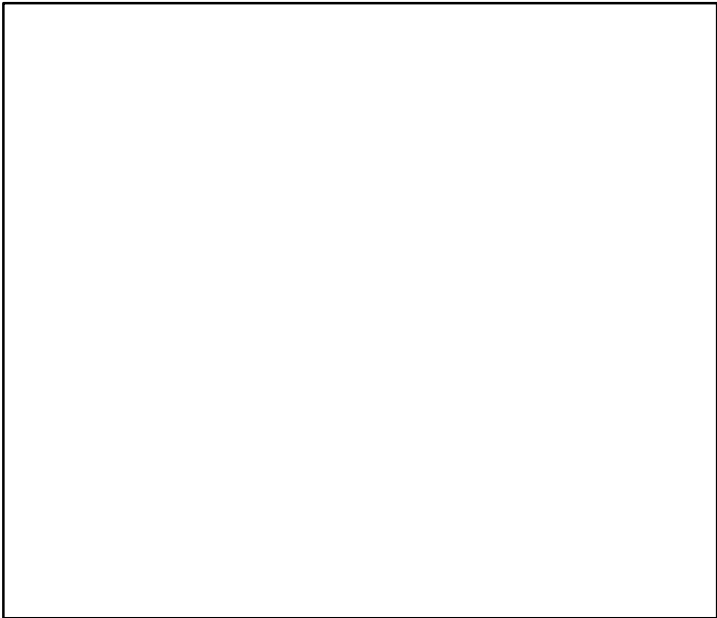
## Picarel Cyprus Island [PICAMEDGSA25]

Metadata	
<b>Scientific Name</b>	Spicara smaris
<b>Current Assess ID</b>	STECF-PICAMEDGSA25-2005-2010-OSIO
<b>Area</b>	Cyprus Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2010

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2010	0.31
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	2010	1350	-	0+
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2010	0.08	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2010	245		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2010	0.258		
<b>ER/ERmgt</b>	-	-	-		

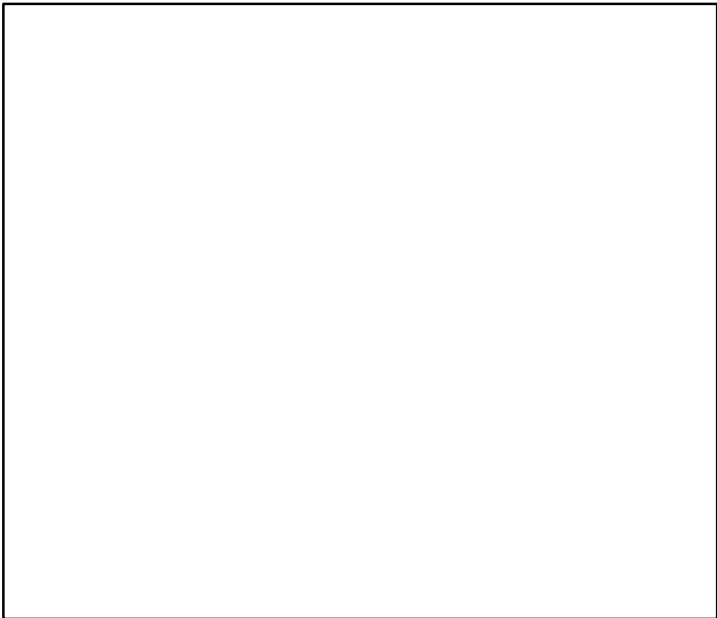
Kobe MSY\*



Kobe MGT\*



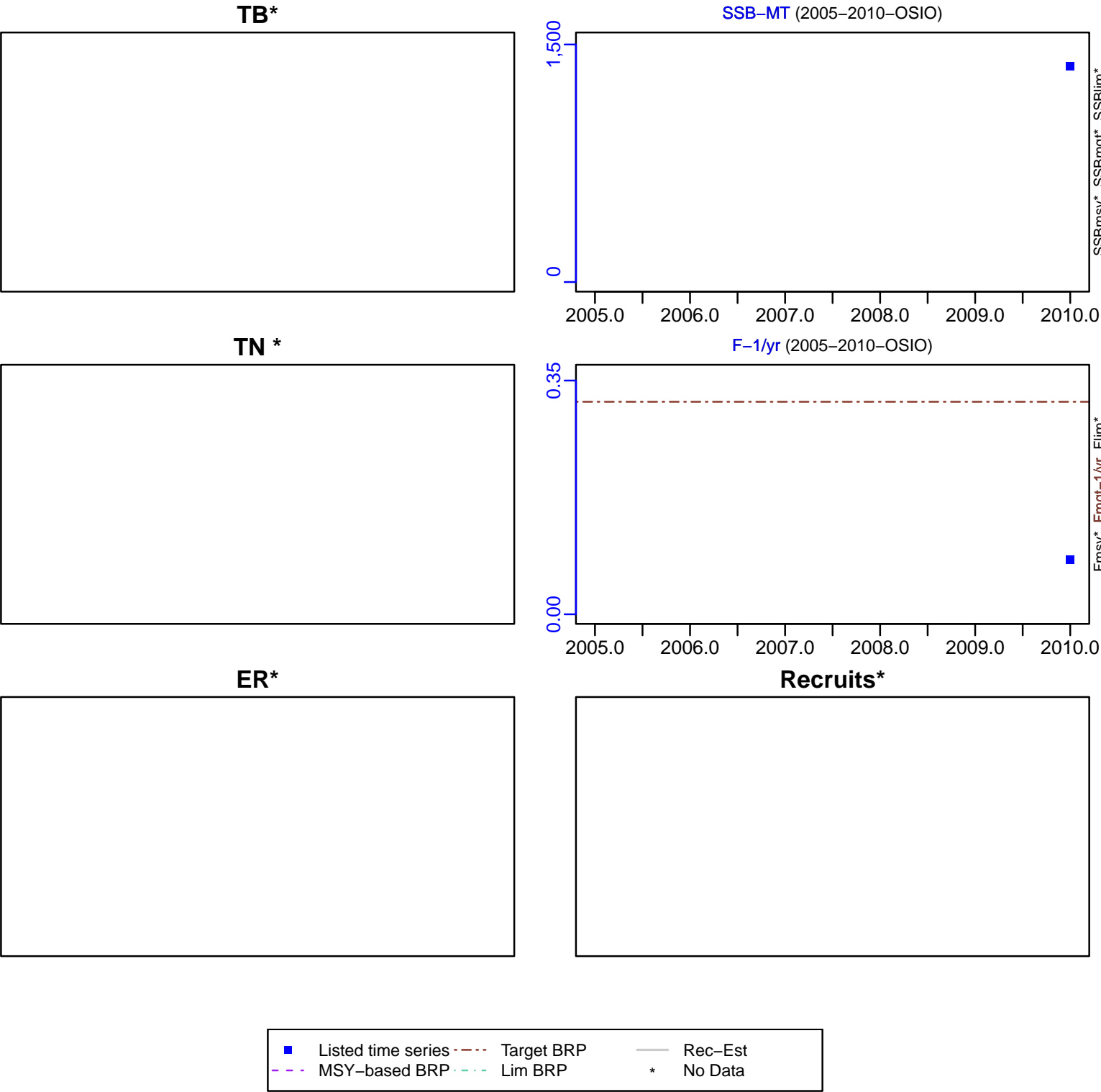
Spawner Recruit\*



Production\*

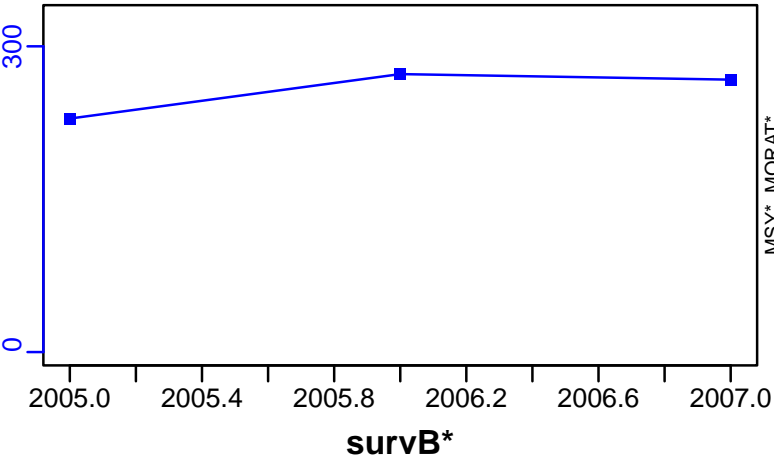


◆ Start Year   ◆ End Year   \* No Data



Picarel Cyprus Island [PICAMEDGSA25]

TC-MT, TL\*, RecC\* (2005-2010-OSIO)



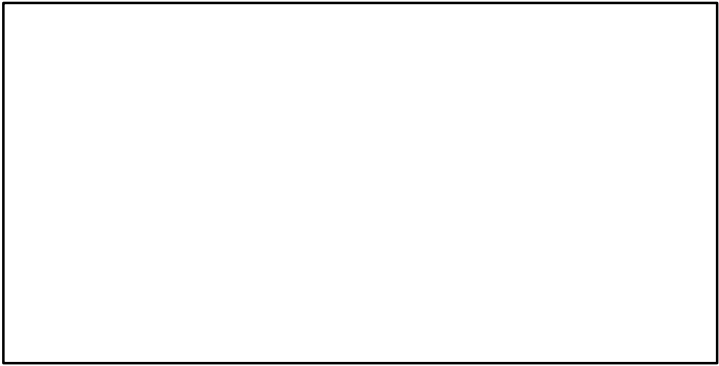
TAC\*, Cpair\*, Cadv\*



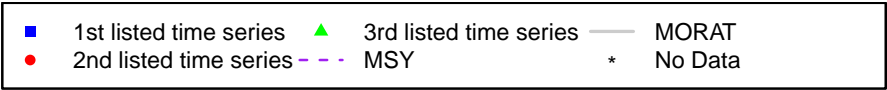
CPUE\*



EFFORT\*



CdivMSY\*



## Red seabream East China Sea [RBRMECS]

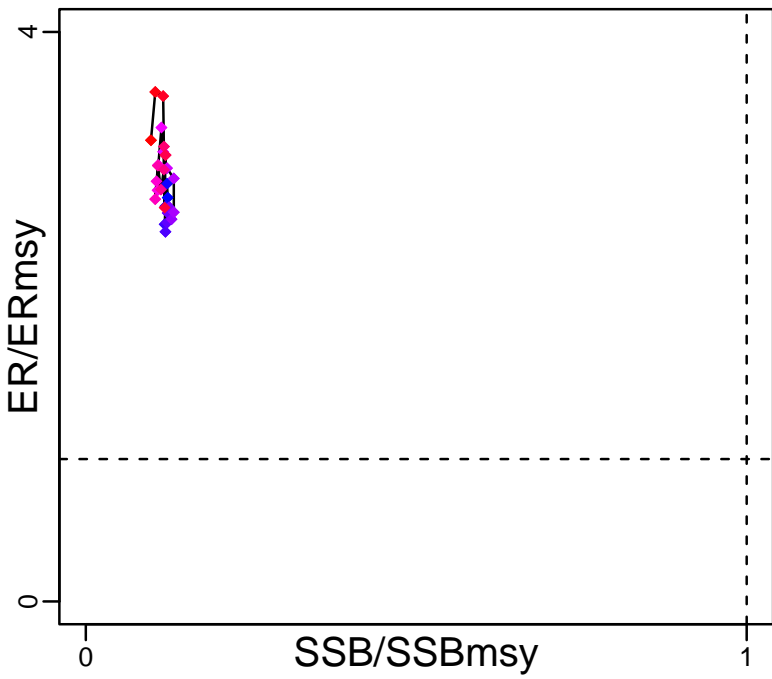
Metadata	
<b>Scientific Name</b>	Pagrus major
<b>Current Assess ID</b>	FAFRFJ-RBRMECS-1969-2013-JPNIMP2016
<b>Area</b>	East China Sea
<b>Management Authority</b>	Fisheries Agency of Japan
<b>Assessor</b>	Fisheries Agency and Fisheries Research Agency of Japan
<b>Asmts in RAM</b>	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2013	96,880
<b>SSBmsy</b>	SSBmsy-MT	2013	87,132
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2013	0.12
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2013	11,626
<b>M</b>	M-1/yr	2013	0.125
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2010	9900
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

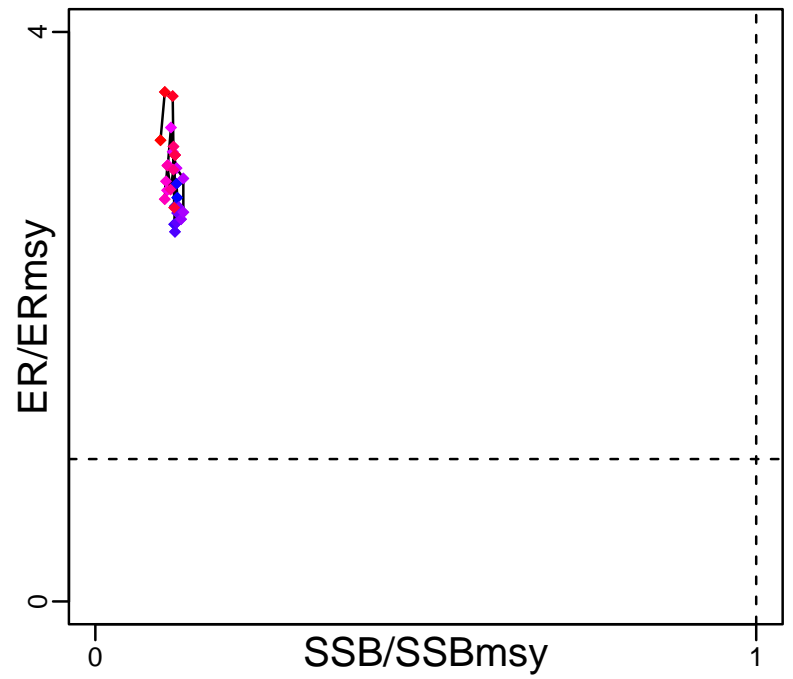
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	14,200	-	1
<b>SSB</b>	SSB-MT	2013	8590	Both	3
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	10,800,000	-	1
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2013	0.389	-	-
<b>TC</b>	TC-MT	2013	5520		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT	2013	0.147		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2013	0.099		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-ratio	2013	3.239		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Red seabream East China Sea [RBRMECS]

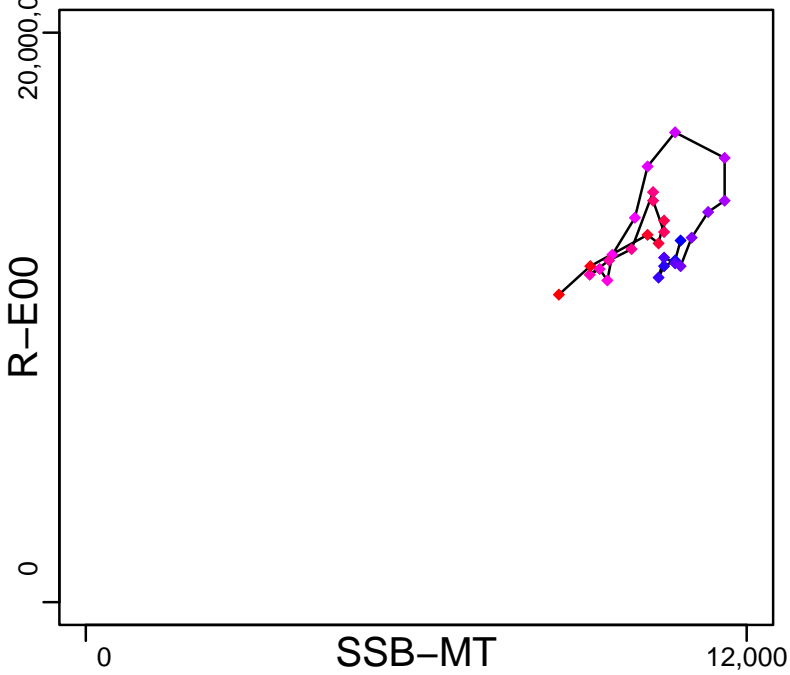
Kobe MSYpref (1969–2013–JPNIMP2016)



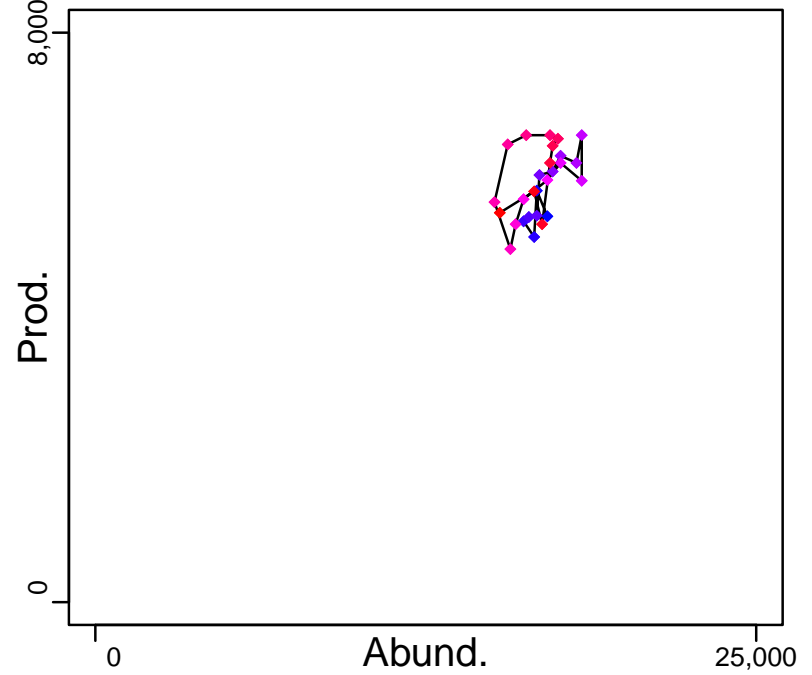
Kobe MGTpref (1969–2013–JPNIMP2016)



Spawner Recruit (1969–2013–JPNIMP2016)



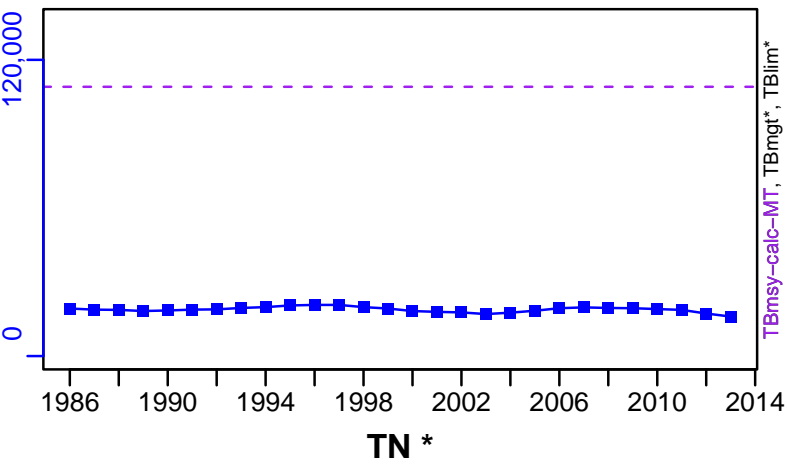
Production (1969–2013–JPNIMP2016)



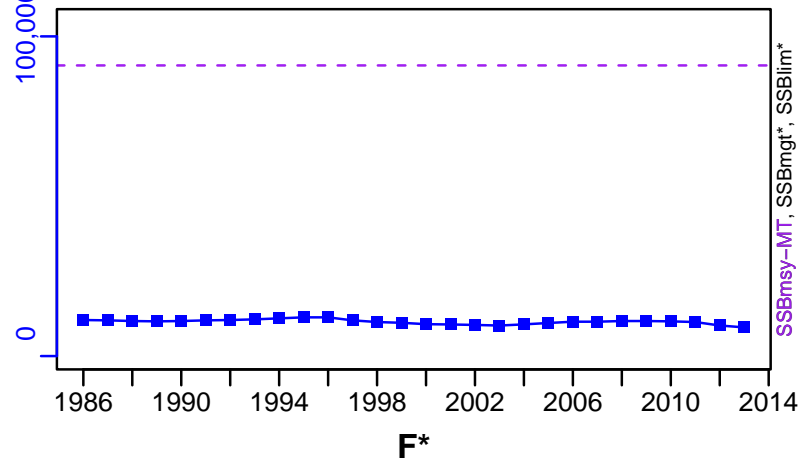
◆ Start Year ◆ End Year \* No Data

# Red seabream East China Sea [RBRMECS]

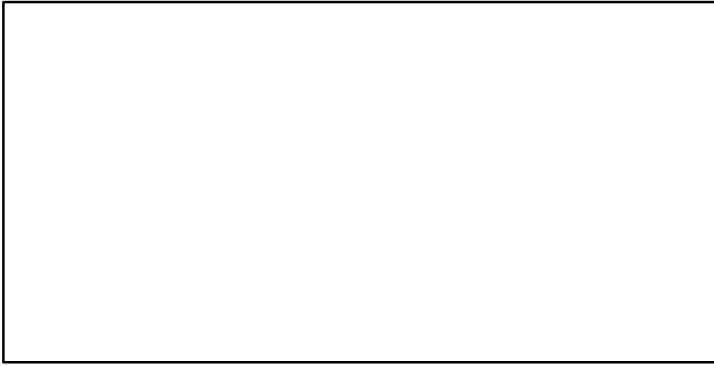
TB-MT (1969-2013-JPNIMP2016)



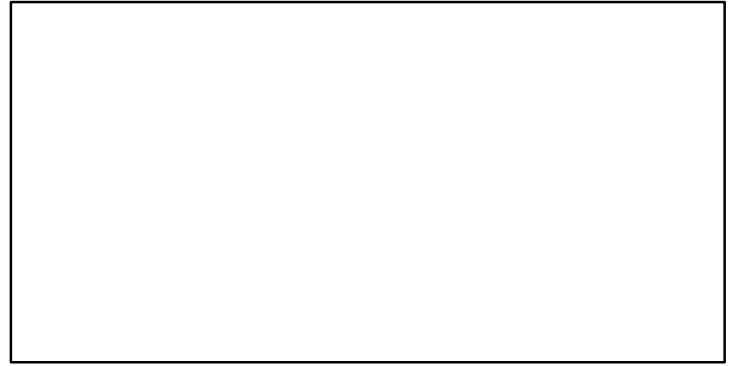
SSB-MT (1969-2013-JPNIMP2016)



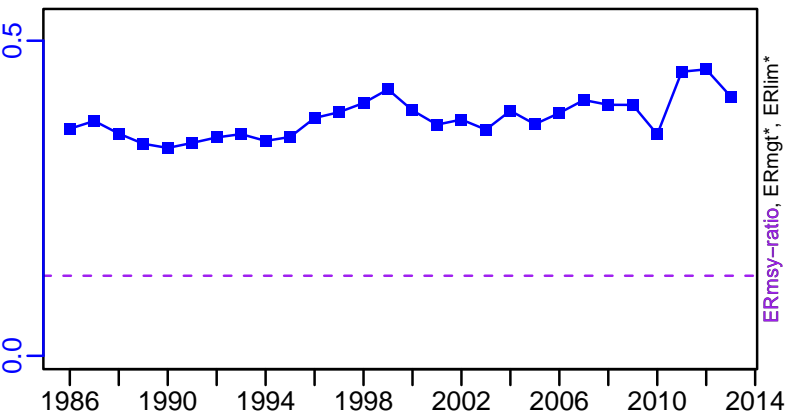
TN \*



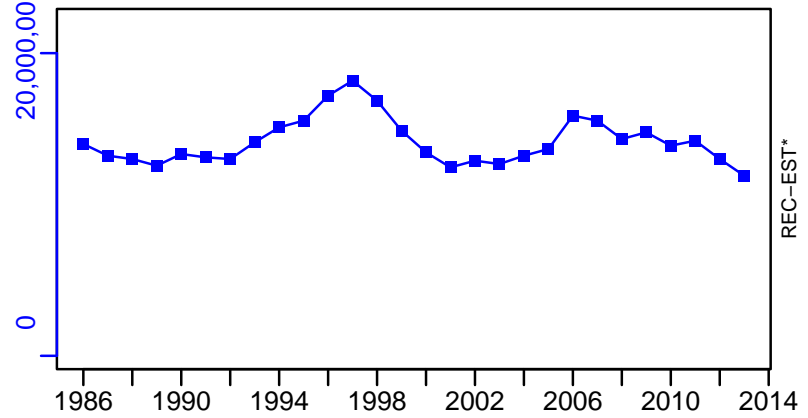
F\*



ER-calc-ratio (1969-2013-JPNIMP2016)



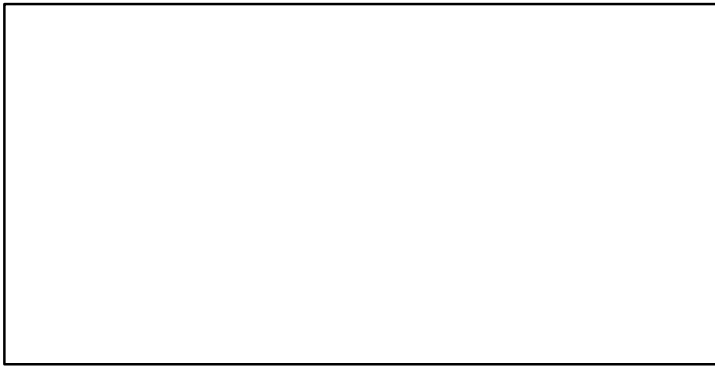
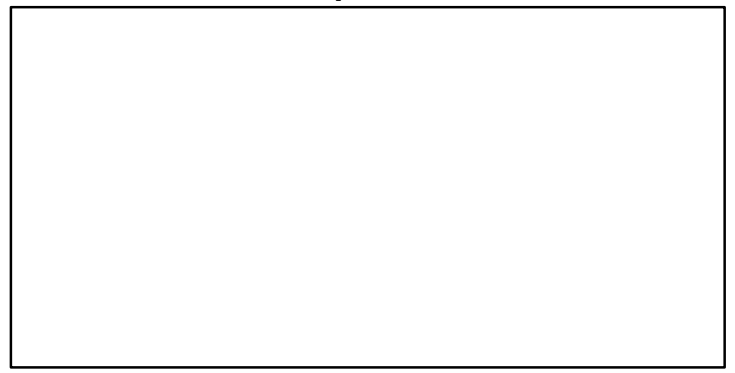
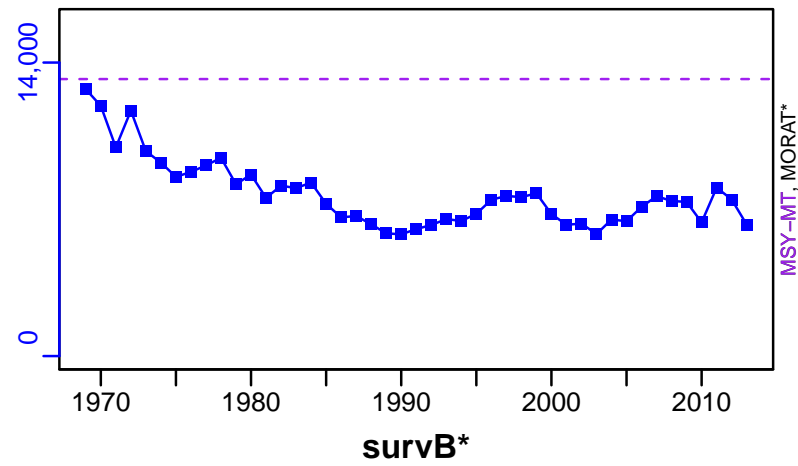
R-E00 (1969-2013-JPNIMP2016)



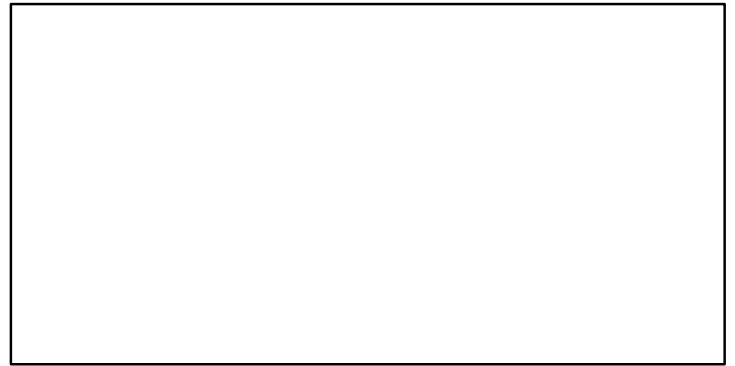
# Red seabream East China Sea [RBRMECS]

TC-MT, TL\*, RecC\* (1969–2013–JPNIMP2016)

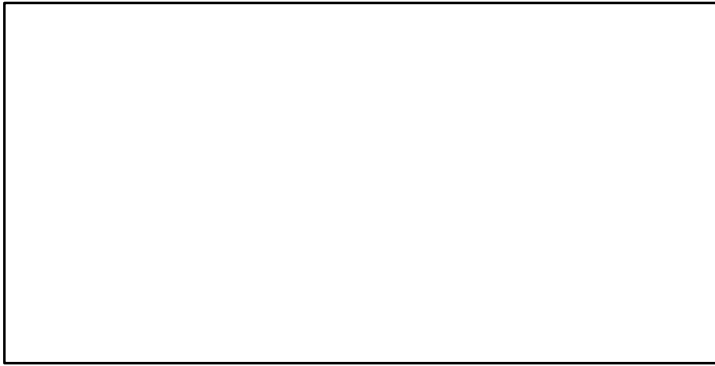
TAC\*, Cpair\*, Cadv\*



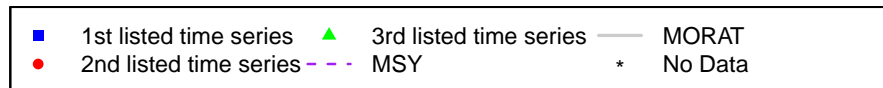
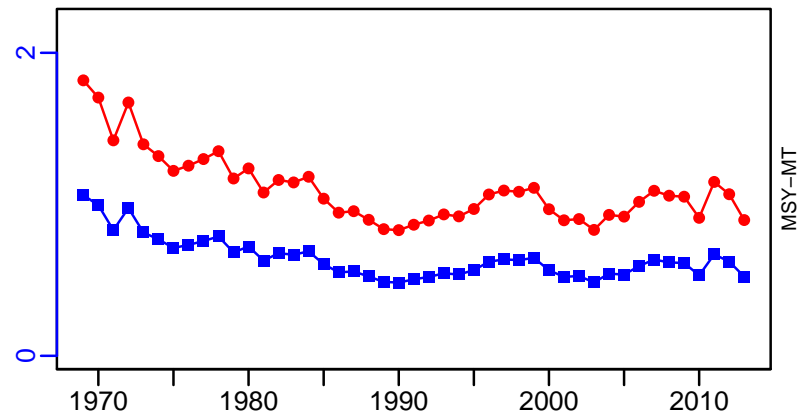
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1969–2013–JPNIMP2016)



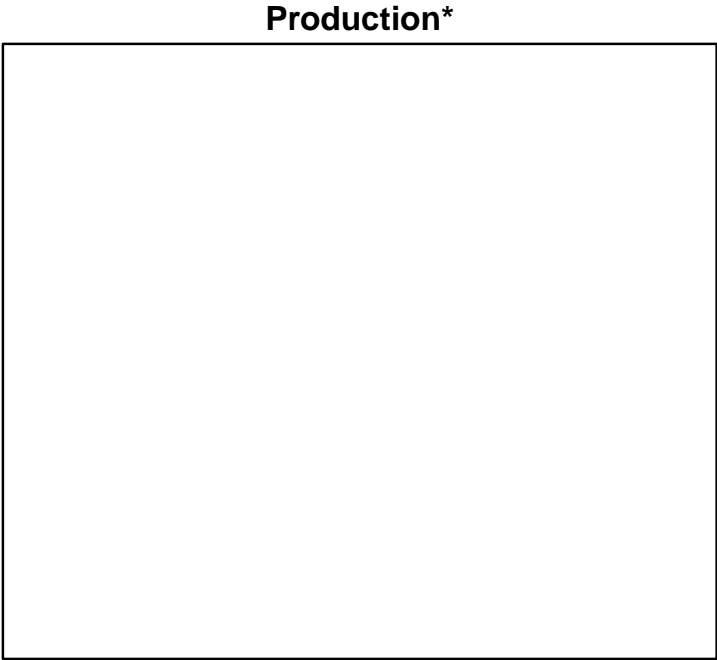
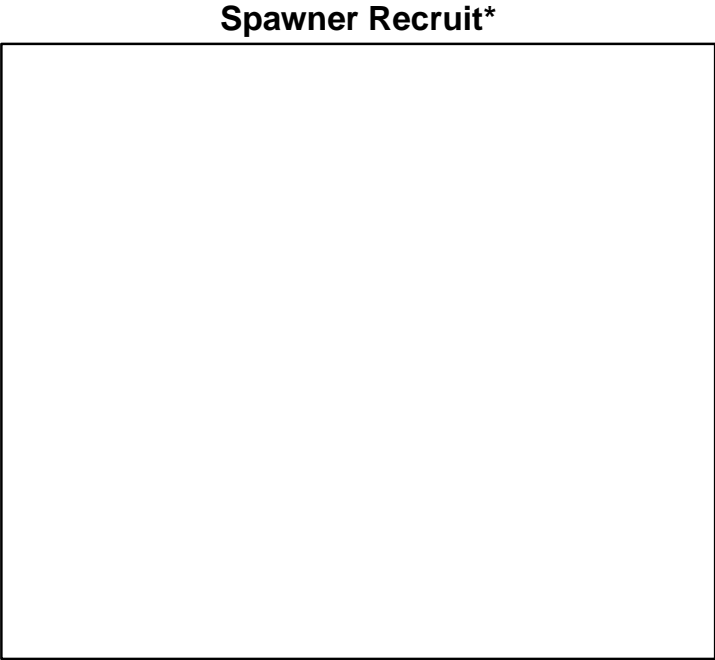
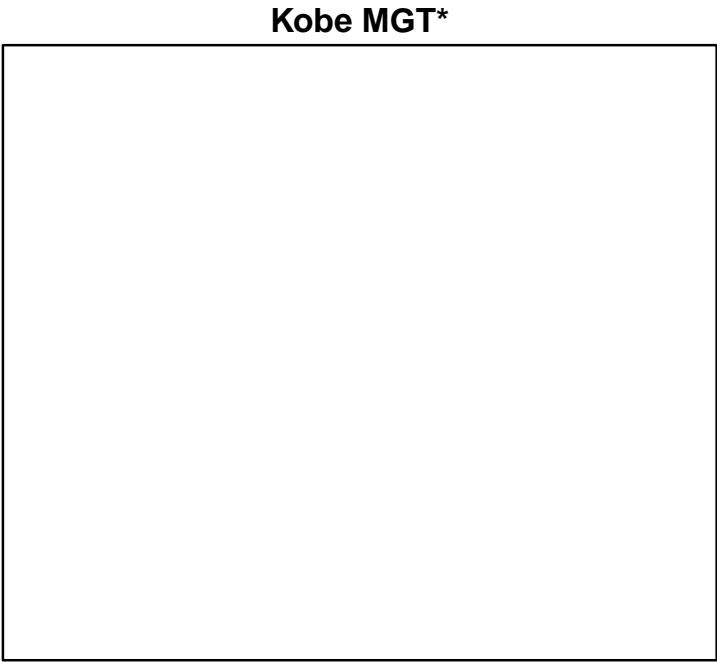
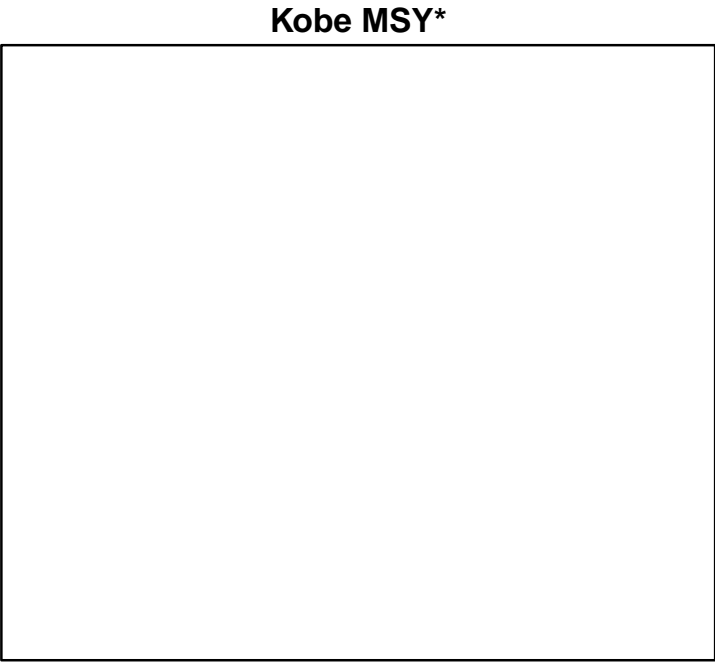


## Red seabream ICES 9 [RBRMIX]

Metadata	
<b>Scientific Name</b>	Pagellus bogaraveo
<b>Current Assess ID</b>	WGDEEP-RBRMIX-1988-2019-ICESIMP2021-2
<b>Area</b>	ICES 9
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016, 2017, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	295		
TL	TL-MT	2019	60		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year   ♦ End Year   \* No Data

Red seabream ICES 9 [RBRMIX]

TB\*



SSB\*



TN \*



F\*



ER\*



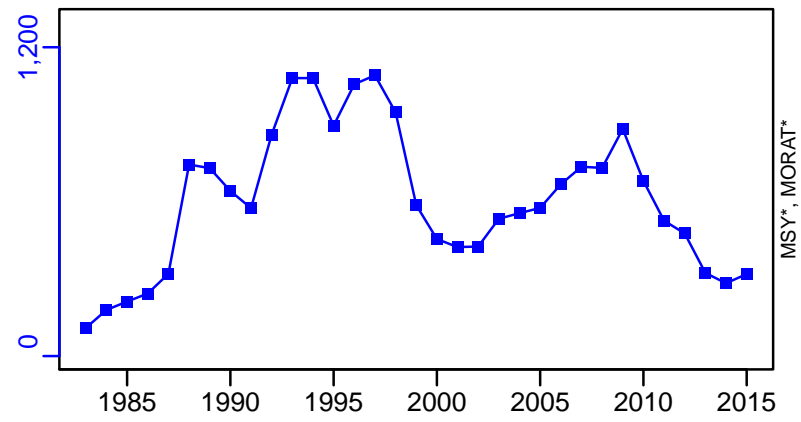
Recruits\*



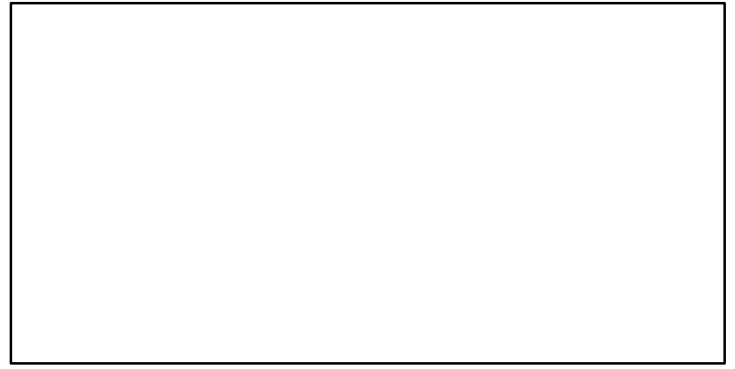
■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	· · · Lim BRP	* No Data

# Red seabream ICES 9 [RBRMIX]

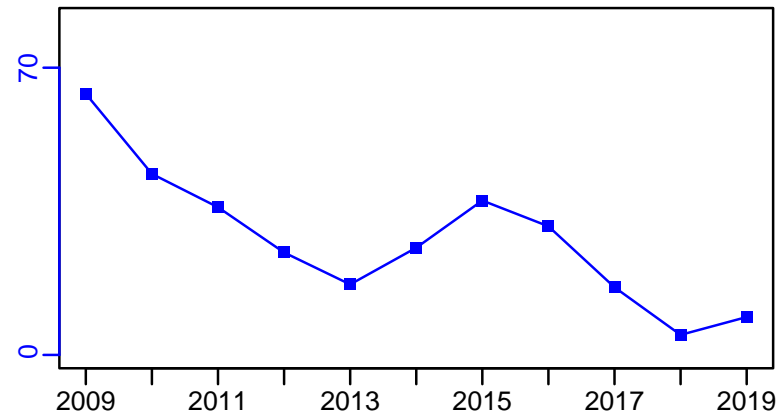
TC-MT, TL\*, RecC\* (1983–2016–ICESIMP2016)



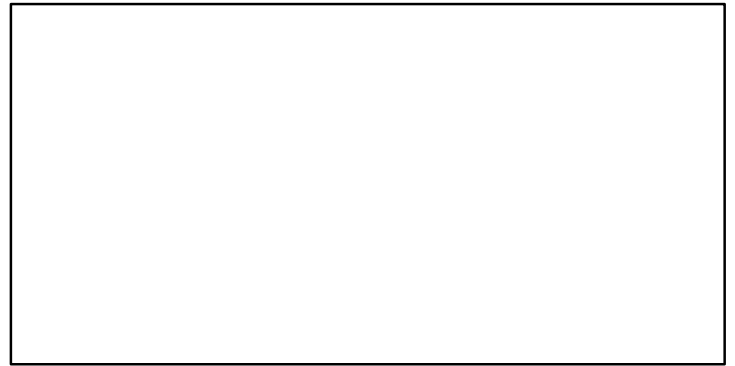
TAC\*, Cpair\*, Cadv\*



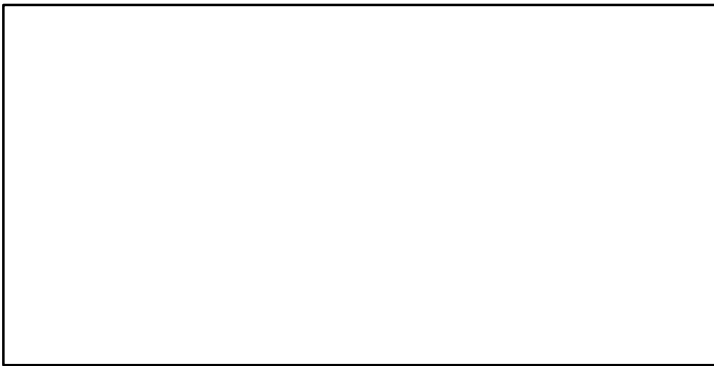
survB-index (1988–2019–ICESIMP2021–2)



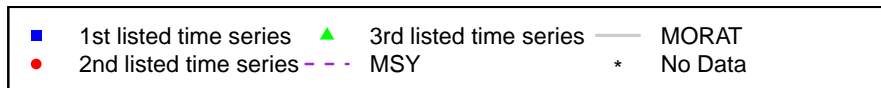
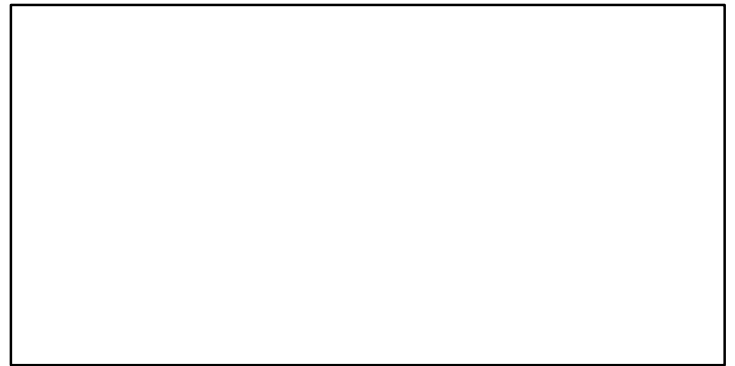
CPUE\*



EFFORT\*



CdivMSY\*



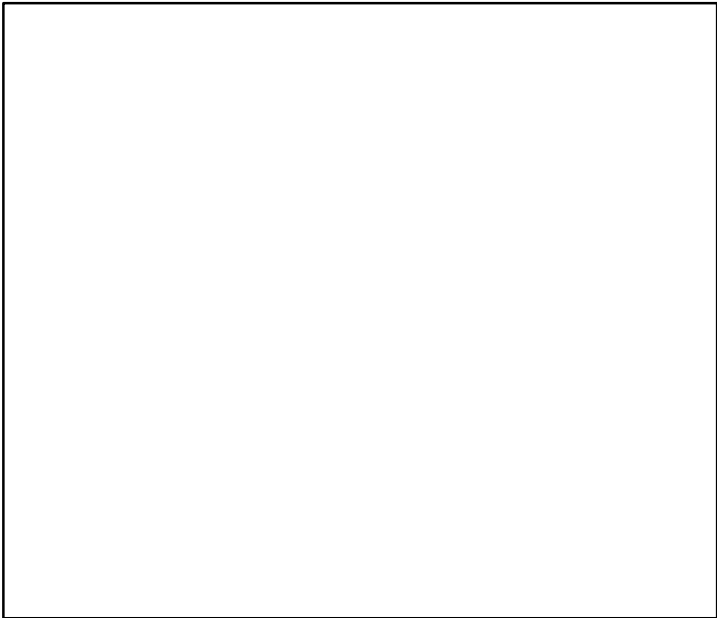
## Red seabream Alboran Island Sea (GSA 1,3) [RBRMMEDGSA1-3]

Metadata	
<b>Scientific Name</b>	Pagellus bogaraveo
<b>Current Assess ID</b>	GRP7-RBRMMEDGSA1-3-2009-2011-BANOBI
<b>Area</b>	Alboran Island Sea (GSA 1,3)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	INRH-NADOR, IEO-MALAGA
<b>Asmts in RAM</b>	2011

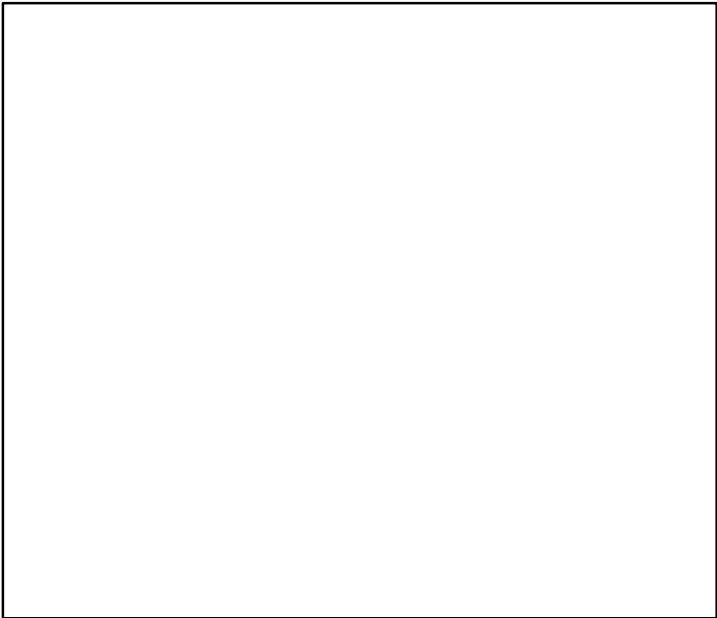
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2011	0.194	-	2 to 6
ER	-	-	-	-	-
TC	TC-MT	2011	258		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

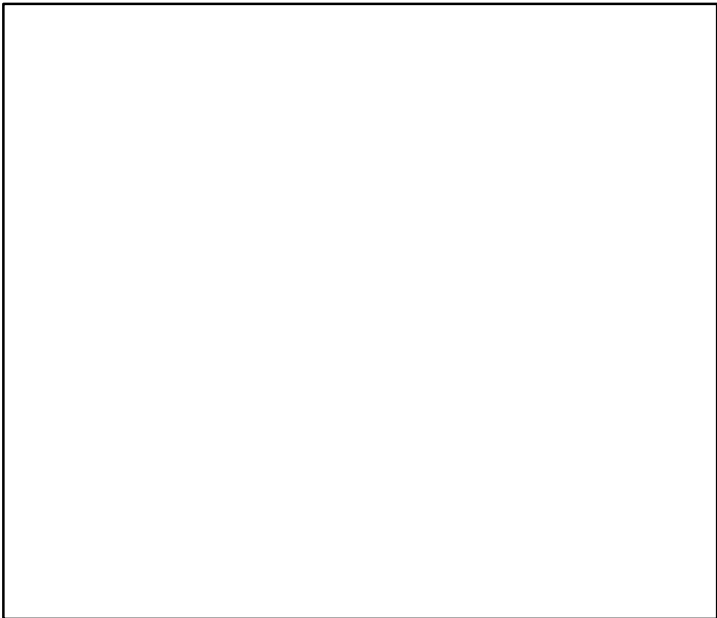
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

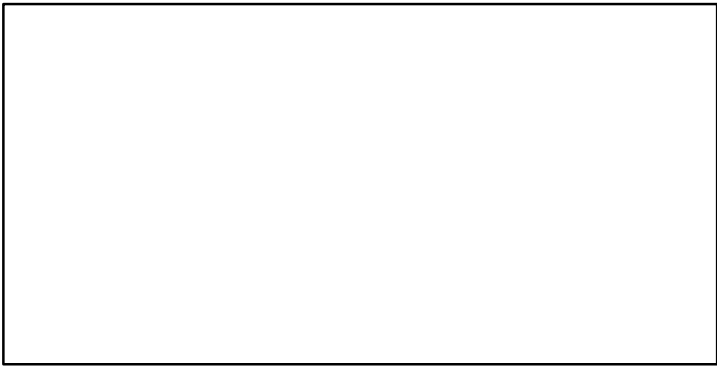
TB\*



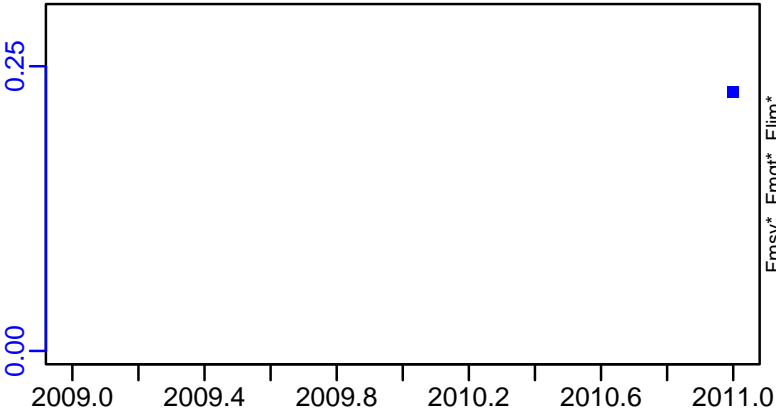
SSB\*



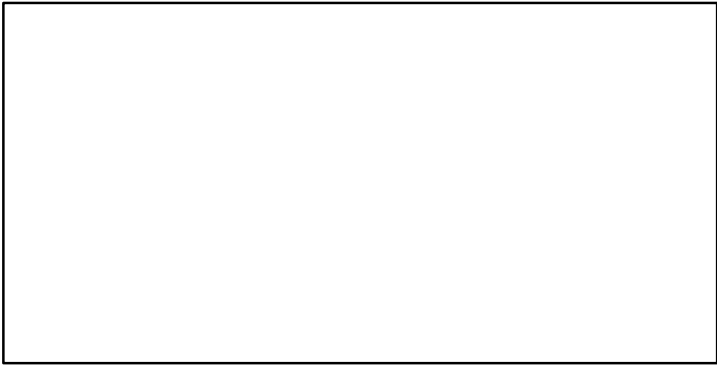
TN \*



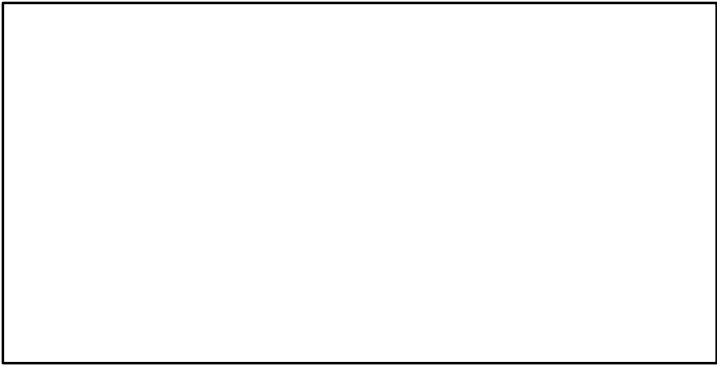
F-1/yr (2009-2011-BANOBI)



ER\*

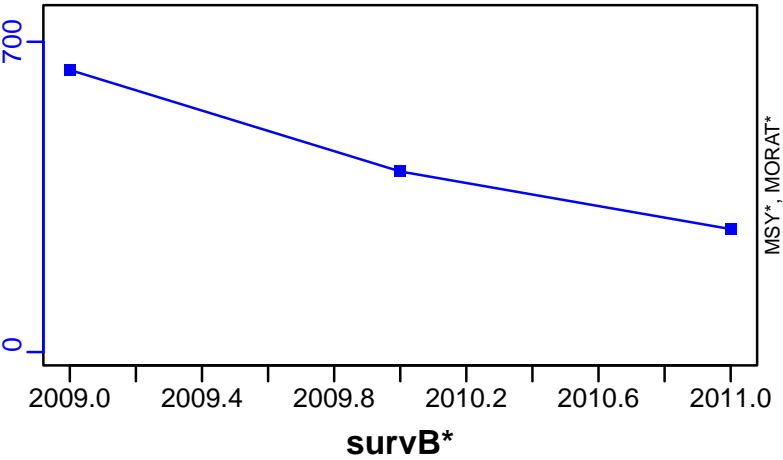


Recruits\*



Red seabream Alboran Island Sea (GSA 1,3) [RBRMMEDGSA1-3]

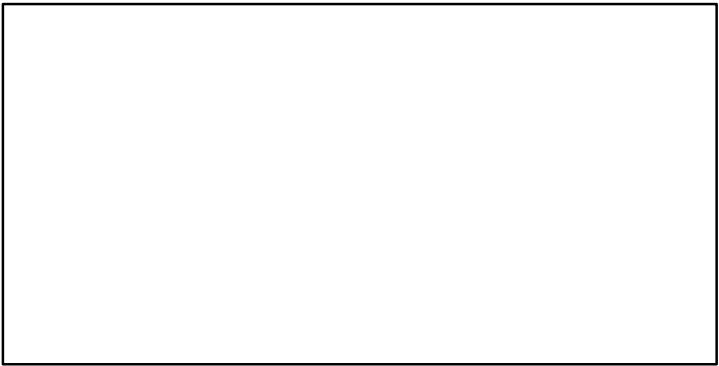
TC-MT, TL\*, RecC\* (2009-2011-BANOBI)



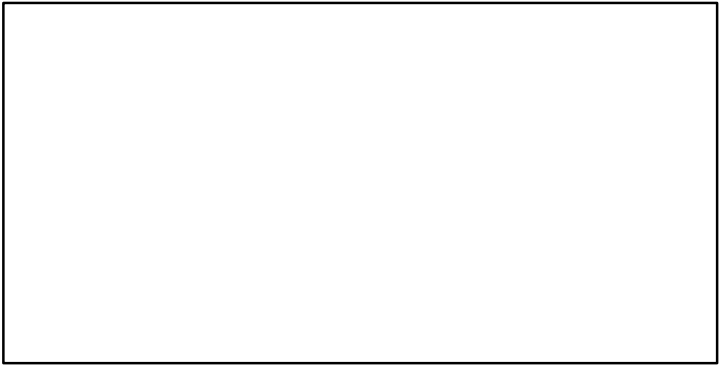
TAC\*, Cpair\*, Cadv\*



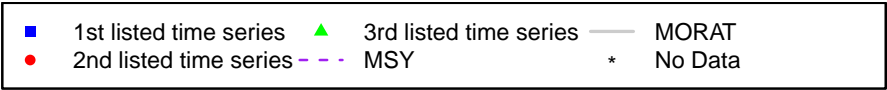
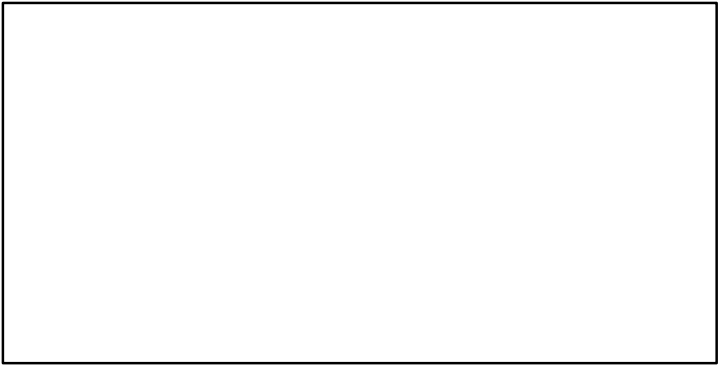
CPUE\*



EFFORT\*



CdivMSY\*





## Red seabream Inland Sea of Japan (East) [RBRMSETOE]

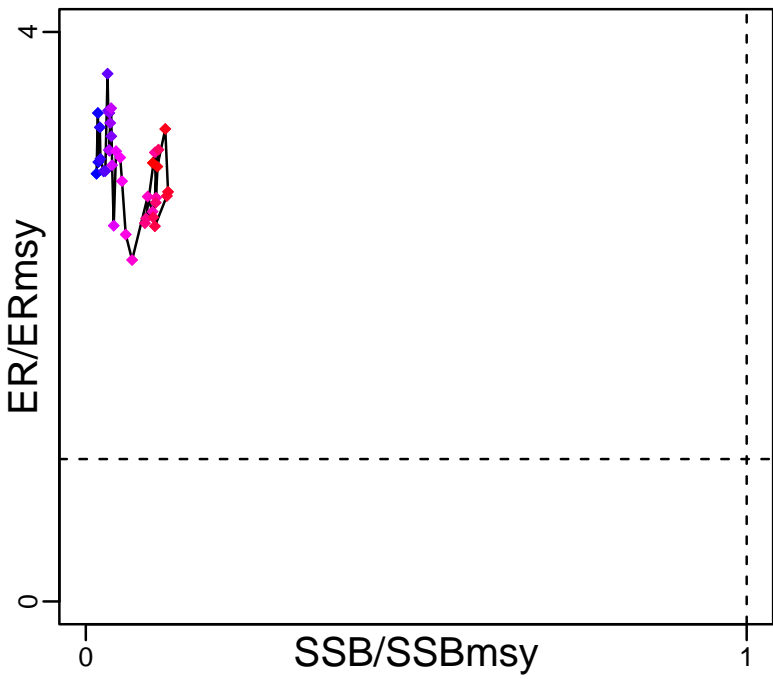
Metadata	
<b>Scientific Name</b>	Pagrus major
<b>Current Assess ID</b>	FAFRFJ-RBRMSETOE-1977-2013-JPNIMP2016
<b>Area</b>	Inland Sea of Japan (East)
<b>Management Authority</b>	Fisheries Agency of Japan
<b>Assessor</b>	Fisheries Agency and Fisheries Research Agency of Japan
<b>Asmts in RAM</b>	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2013	21,417
<b>SSBmsy</b>	SSBmsy-MT	2013	16,552
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2013	0.145
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2013	3106
<b>M</b>	M-1/yr	2013	0.24
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2010	304
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

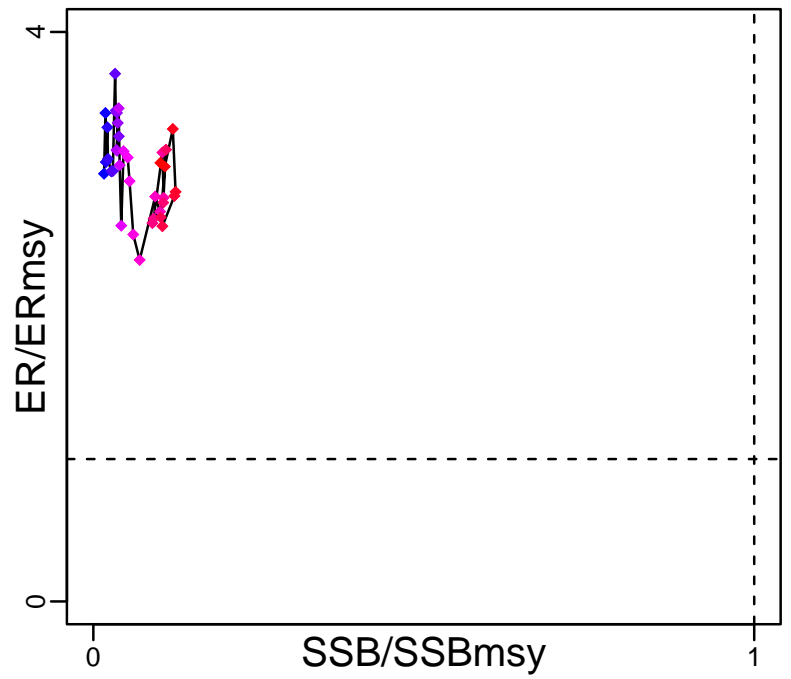
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	4030	-	0
<b>SSB</b>	SSB-MT	2013	1680	Both	3
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	8,730,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2013	0.447	-	-
<b>TC</b>	TC-MT	2013	1800		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT	2013	0.188		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2013	0.101		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-ratio	2013	3.08		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Red seabream Inland Sea of Japan (East) [RBRMSETOE]

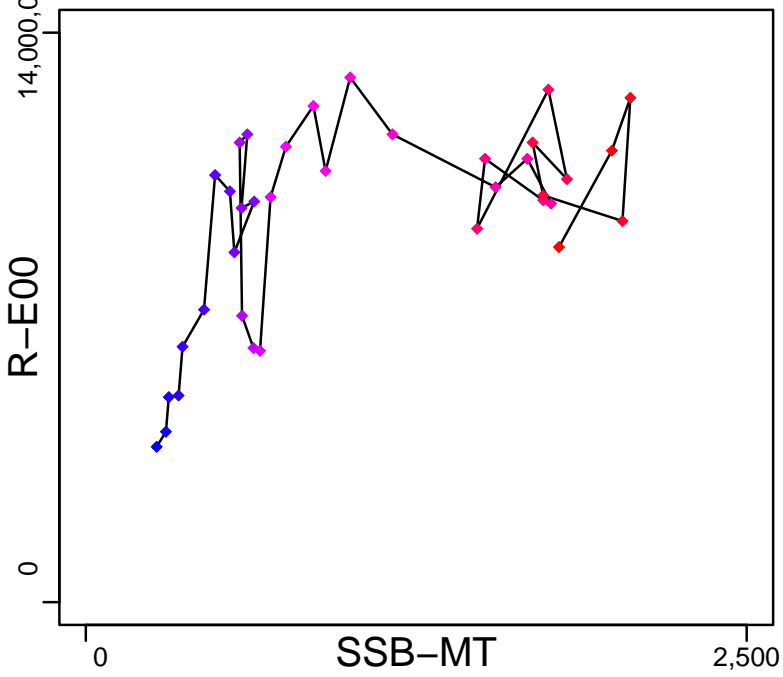
Kobe MSYpref (1977–2013–JPNIMP2016)



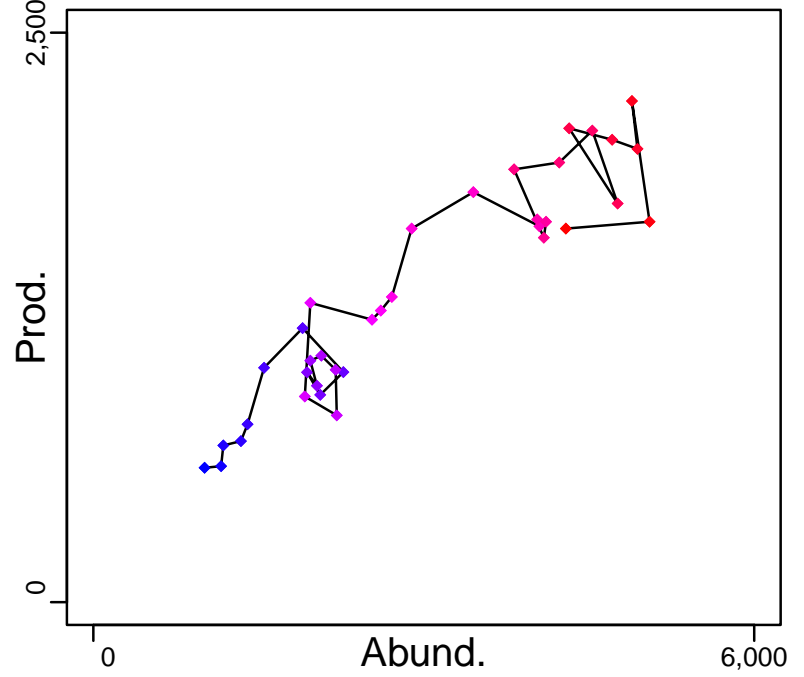
Kobe MGTpref (1977–2013–JPNIMP2016)



Spawner Recruit (1977–2013–JPNIMP2016)



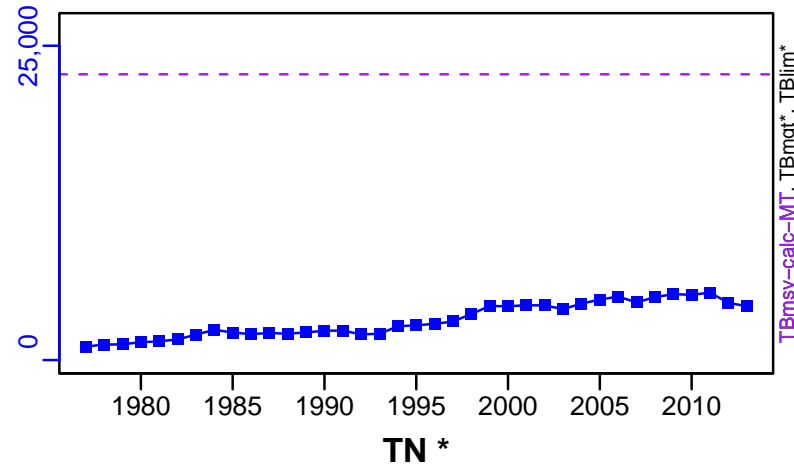
Production (1977–2013–JPNIMP2016)



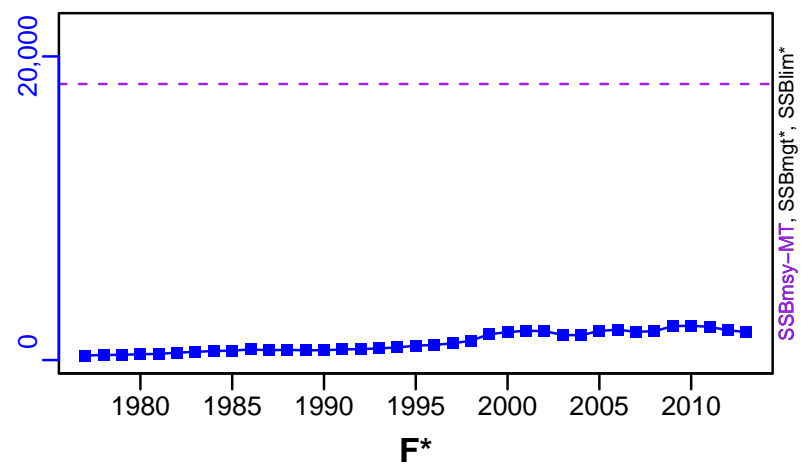
◆ Start Year ◆ End Year \* No Data

# Red seabream Inland Sea of Japan (East) [RBRMSETOE]

TB-MT (1977-2013-JPNIMP2016)

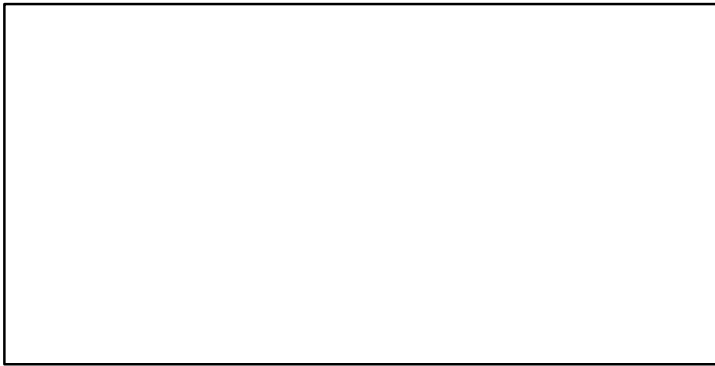


SSB-MT (1977-2013-JPNIMP2016)

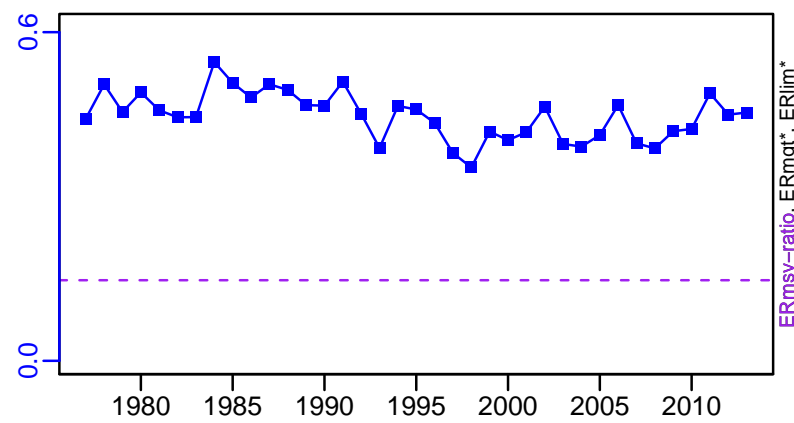


TN \*

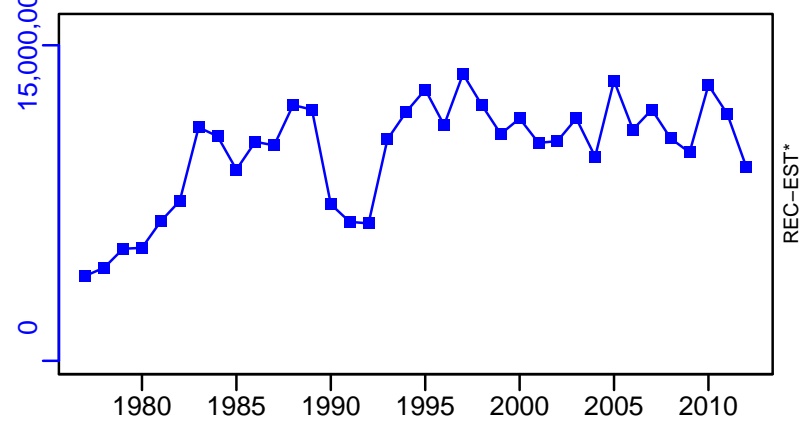
F\*



ER-calc-ratio (1977-2013-JPNIMP2016)

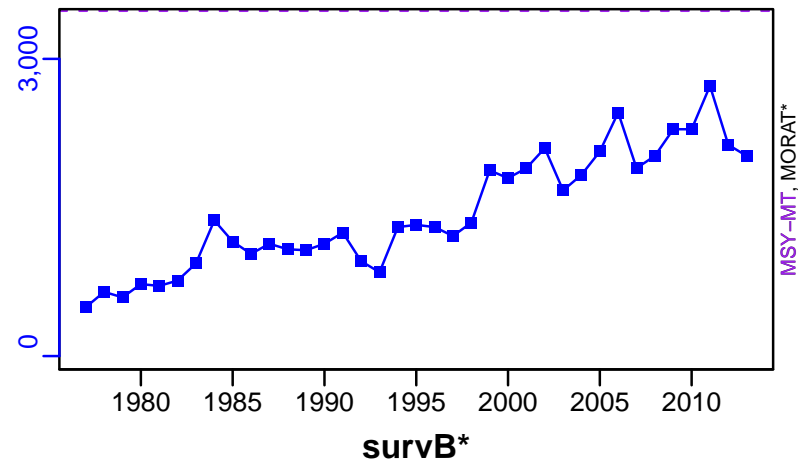


R-E00 (1977-2013-JPNIMP2016)

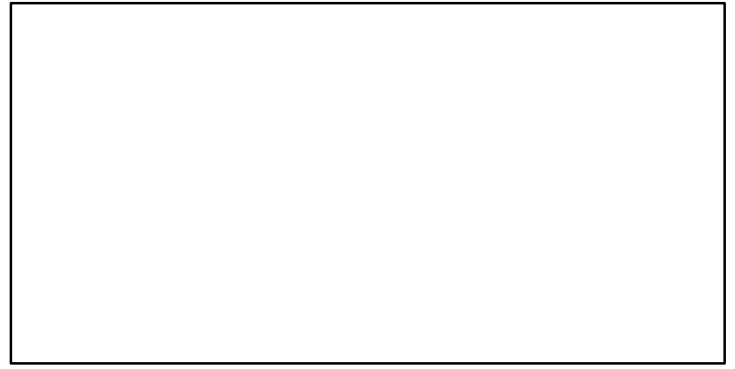


# Red seabream Inland Sea of Japan (East) [RBRMSETOE]

TC-MT, TL\*, RecC\* (1977-2013-JPNIMP2016)



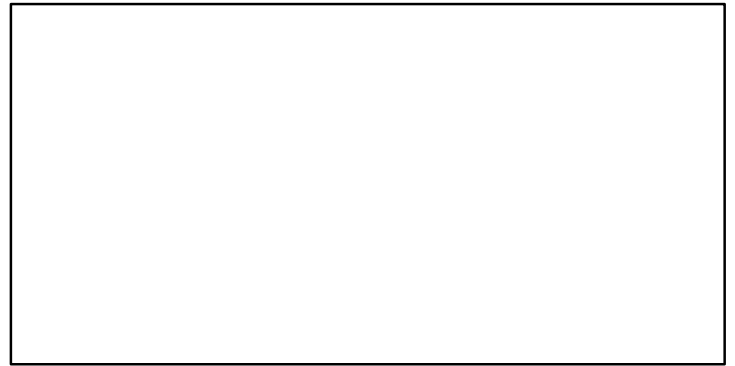
TAC\*, Cpair\*, Cadv\*



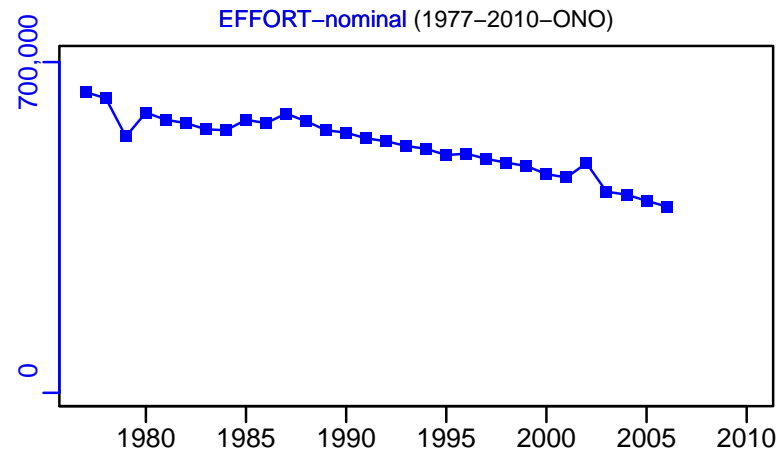
survB\*



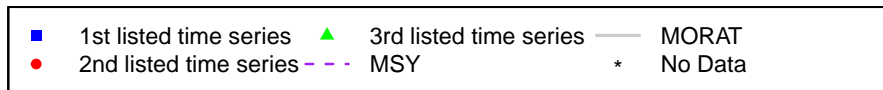
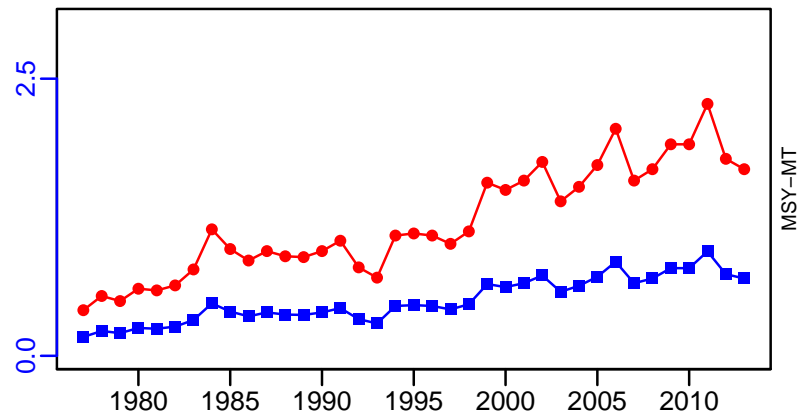
CPUE\*



EFFORT-nominal (1977-2010-ONO)



TC-MT/MSY-MT, CdivMEANC-ratio, (1977-2013-JPNIMP2016)



## Red seabream Inland Sea of Japan (West) [RBRMSETOW]

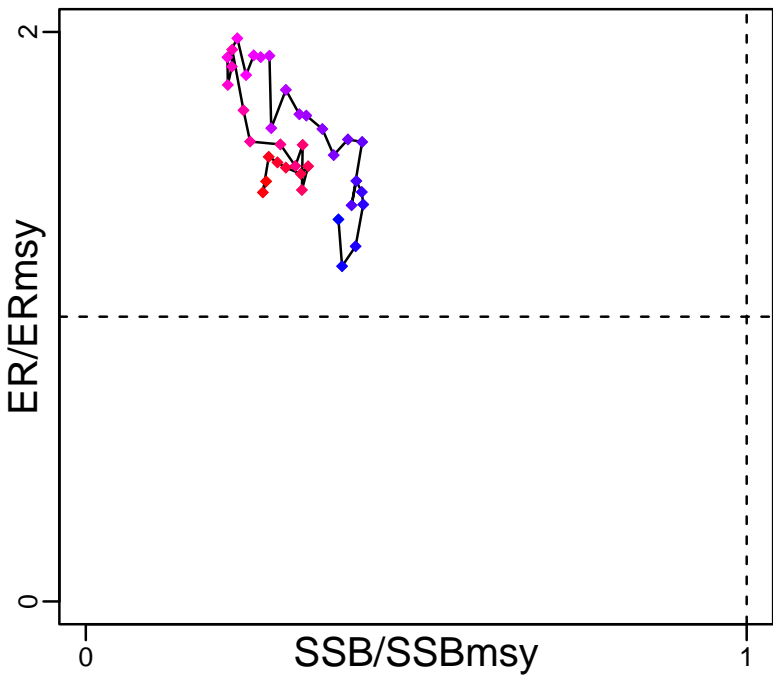
Metadata	
<b>Scientific Name</b>	Pagrus major
<b>Current Assess ID</b>	FAFRFJ-RBRMSETOW-1977-2013-JPNIMP2016
<b>Area</b>	Inland Sea of Japan (West)
<b>Management Authority</b>	Fisheries Agency of Japan
<b>Assessor</b>	Fisheries Agency and Fisheries Research Agency of Japan
<b>Asmts in RAM</b>	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2013	24,122
<b>SSBmsy</b>	SSBmsy-MT	2013	18,103
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2013	0.173
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2013	4173
<b>M</b>	M-1/yr	2013	0.24
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2010	4212
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

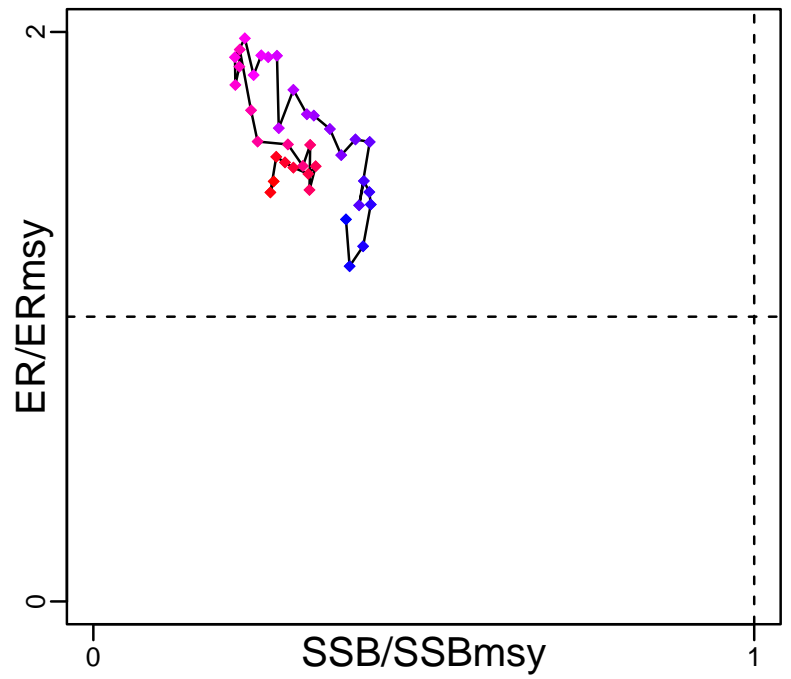
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	8620	-	0
<b>SSB</b>	SSB-MT	2013	4940	Both	3
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	8,300,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2013	0.255	-	-
<b>TC</b>	TC-MT	2013	2200		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT	2013	0.357		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2013	0.273		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-ratio	2013	1.475		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Red seabream Inland Sea of Japan (West) [RBRMSETOW]

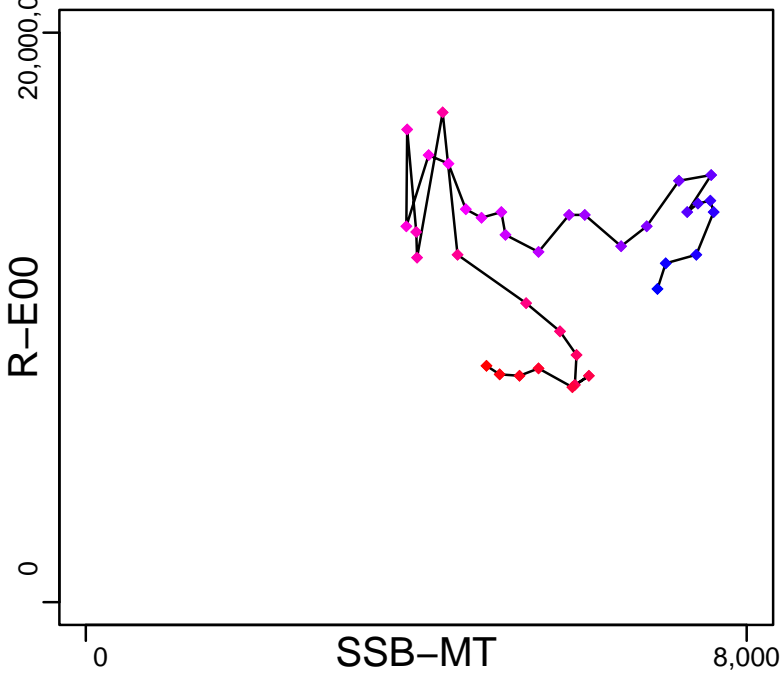
Kobe MSYpref (1977–2013–JPNIMP2016)



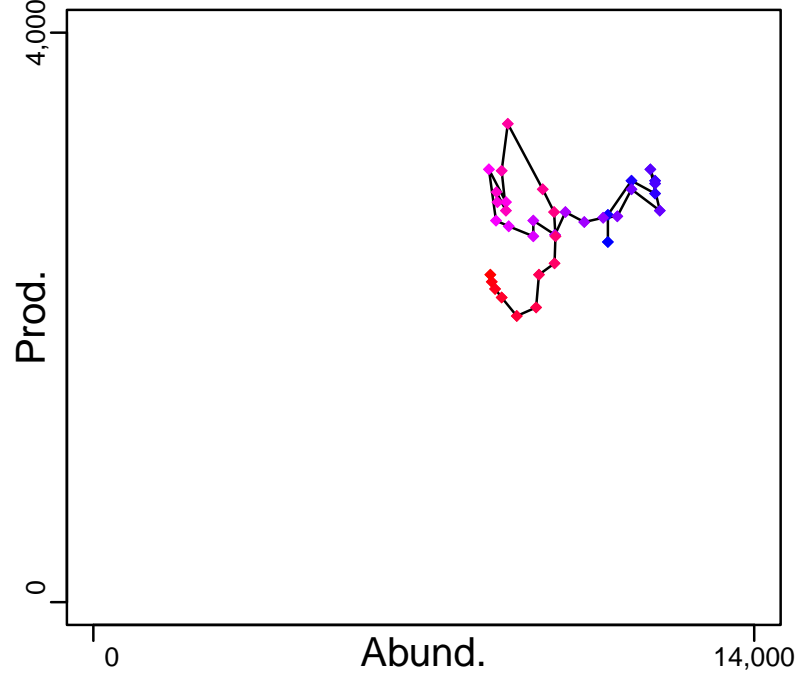
Kobe MGTpref (1977–2013–JPNIMP2016)



Spawner Recruit (1977–2013–JPNIMP2016)



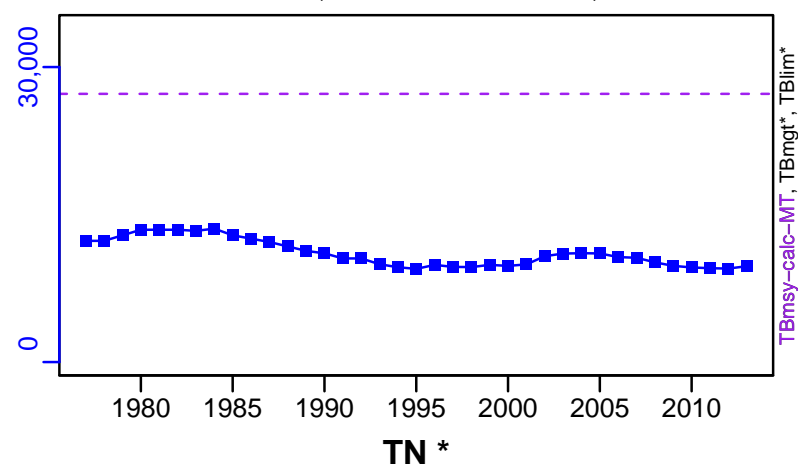
Production (1977–2013–JPNIMP2016)



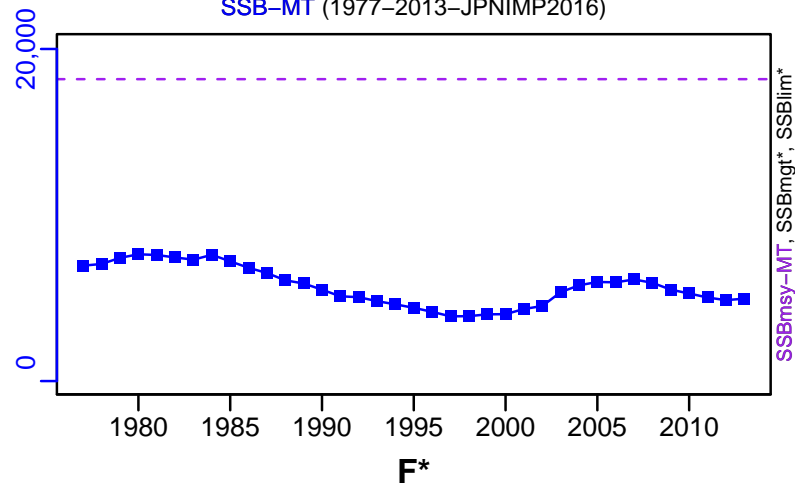
◆ Start Year ◆ End Year \* No Data

# Red seabream Inland Sea of Japan (West) [RBRMSETOW]

TB-MT (1977-2013-JPNIMP2016)



SSB-MT (1977-2013-JPNIMP2016)

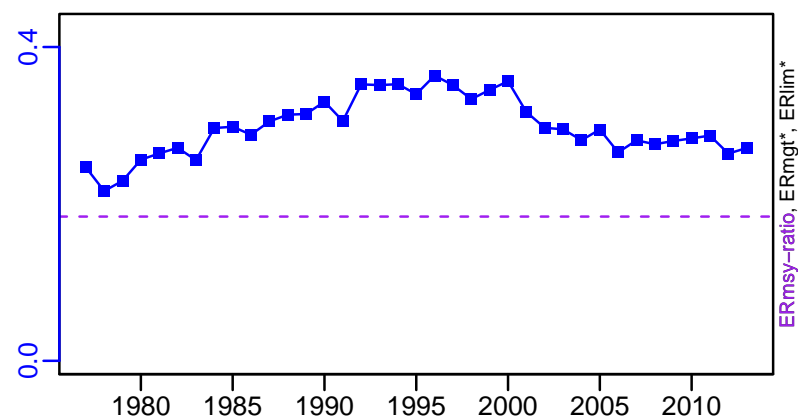


TN \*

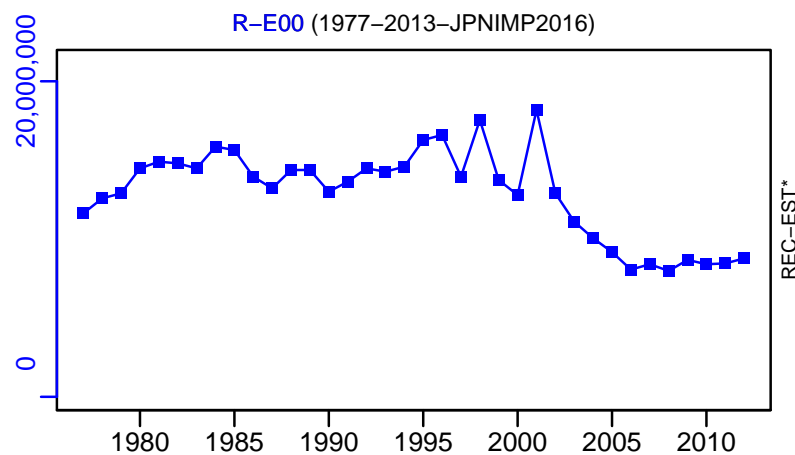
F\*



ER-calc-ratio (1977-2013-JPNIMP2016)



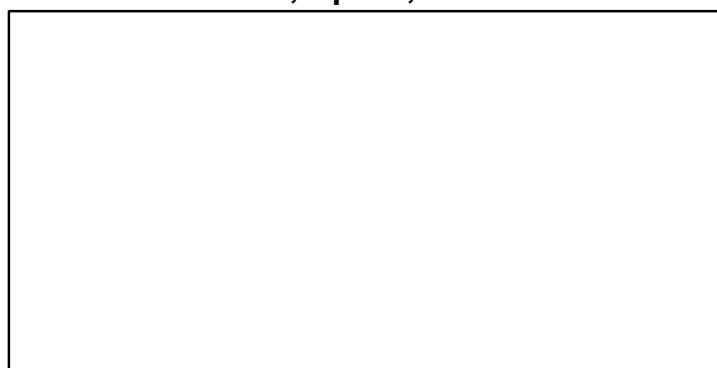
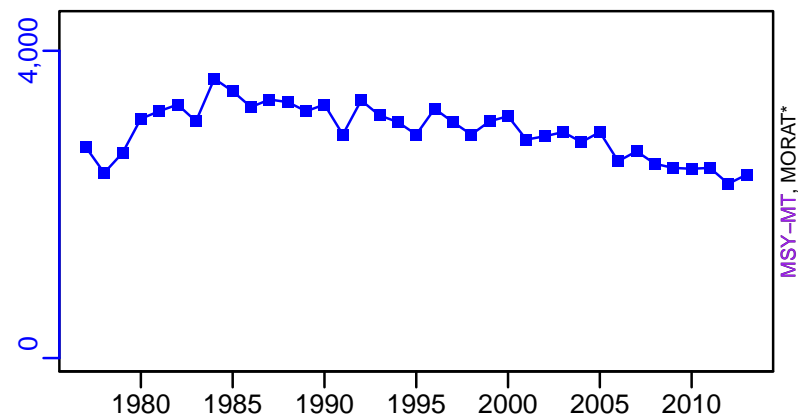
R-E00 (1977-2013-JPNIMP2016)



# Red seabream Inland Sea of Japan (West) [RBRMSETOW]

TC-MT, TL\*, RecC\* (1977–2013–JPNIMP2016)

TAC\*, Cpair\*, Cadv\*



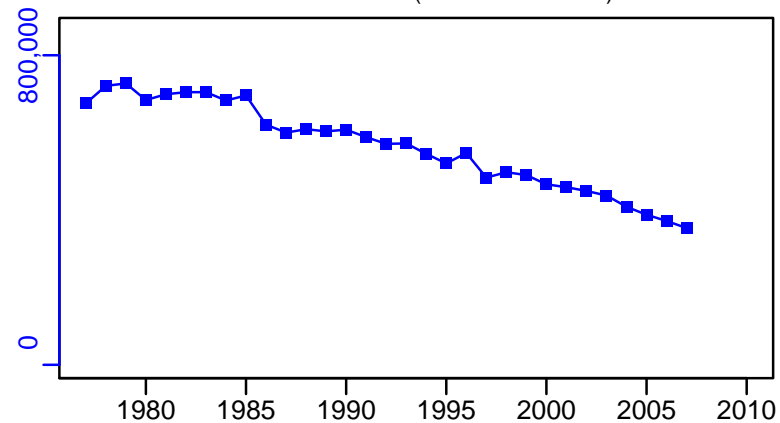
survB\*



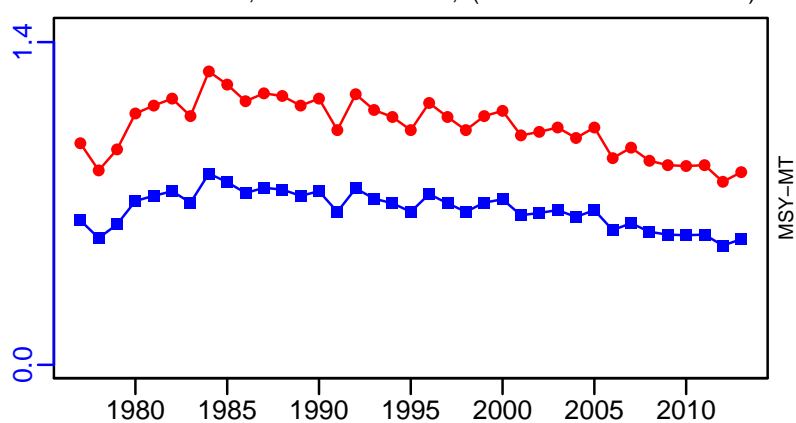
CPUE\*



EFFORT-nominal (1977–2010–ONO)



TC-MT/MSY-MT, CdivMEANC-ratio, (1977–2013–JPNIMP2016)



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



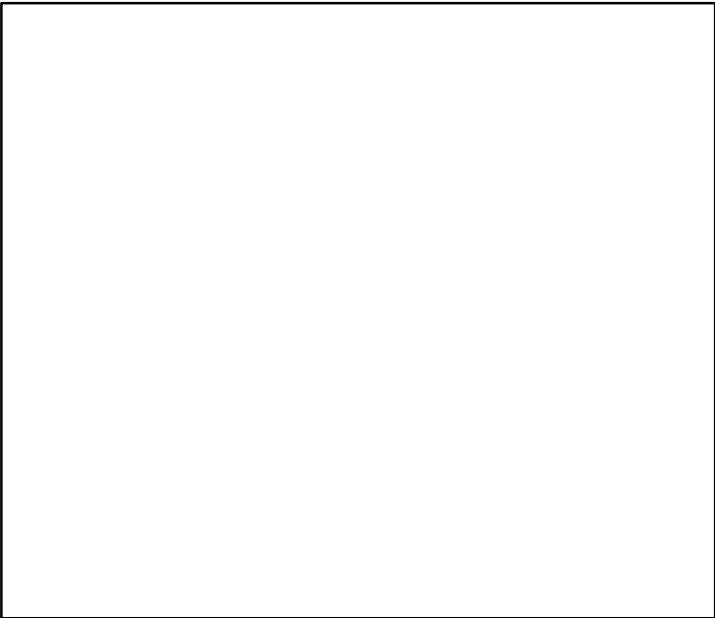
## Red seabream ICES 6-7-8 [RBRMVI-VII-VIII]

Metadata	
<b>Scientific Name</b>	Pagellus bogaraveo
<b>Current Assess ID</b>	WGDEEP-RBRMVI-VII-VIII-1948-2019-ICESIMP2021-2
<b>Area</b>	ICES 6-7-8
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016, 2017, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	98		
TL	TL-MT	2019	98		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

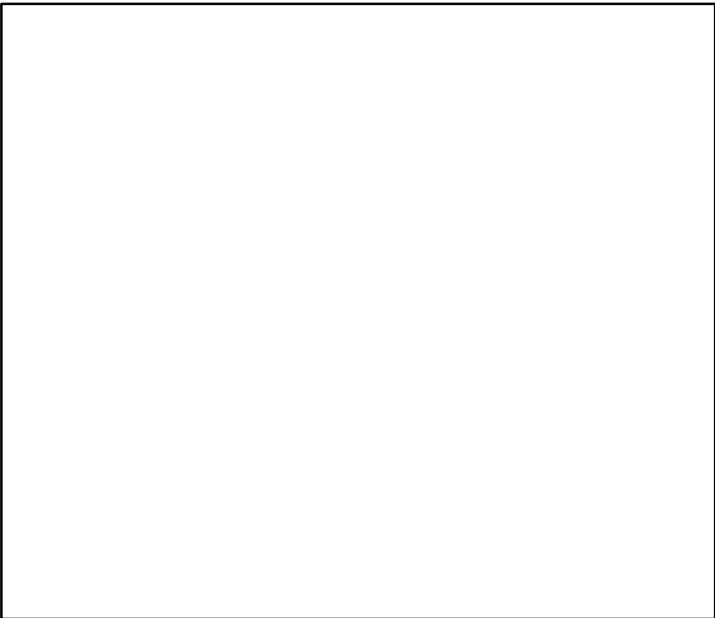
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year    ◆ End Year    \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*

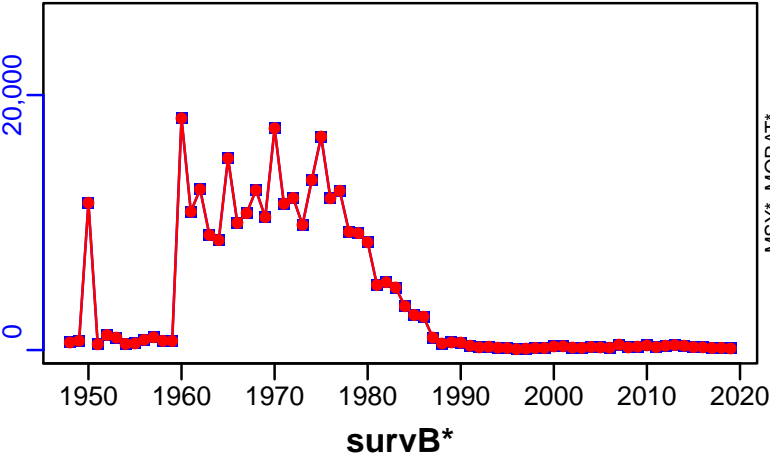


Recruits\*

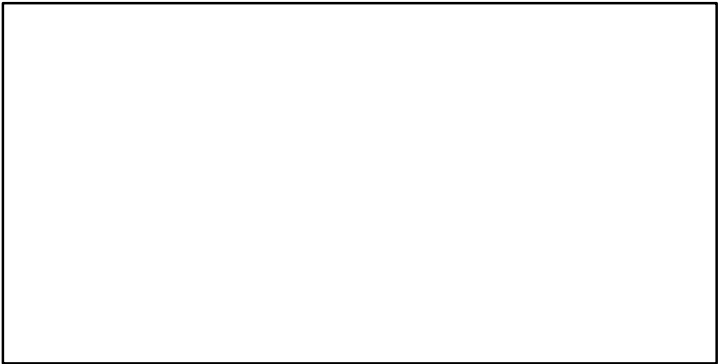


Red seabream ICES 6-7-8 [RBRMVI-VII-VIII]

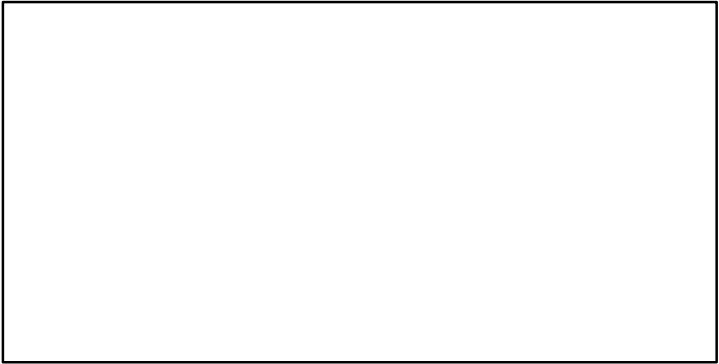
TC-MT, TL-MT, RecC\* (1948-2019-ICESIMP2021-2)



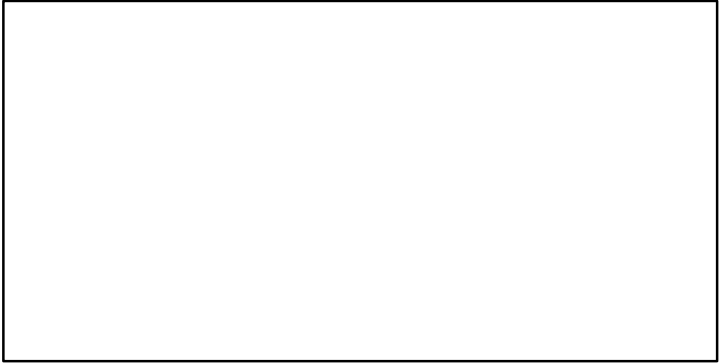
TAC\*, Cpair\*, Cadv\*



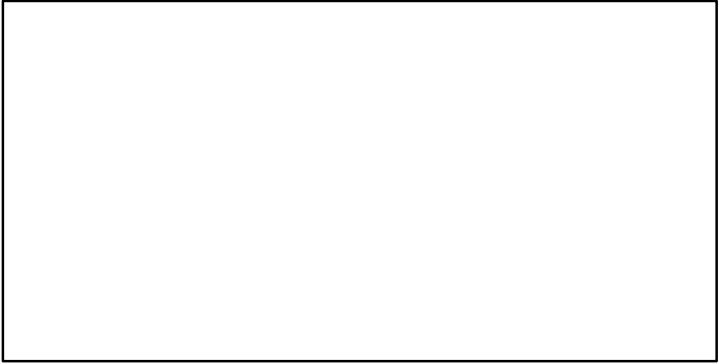
CPUE\*



EFFORT\*



CdivMSY\*



## Red seabream Azores Grounds [RBRMX]

Metadata	
<b>Scientific Name</b>	Pagellus bogaraveo
<b>Current Assess ID</b>	WGDEEP-RBRMX-1980-2020-ICESIMP2021-2
<b>Area</b>	Azores Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016, 2016, 2017, 2018, 2019, 2020

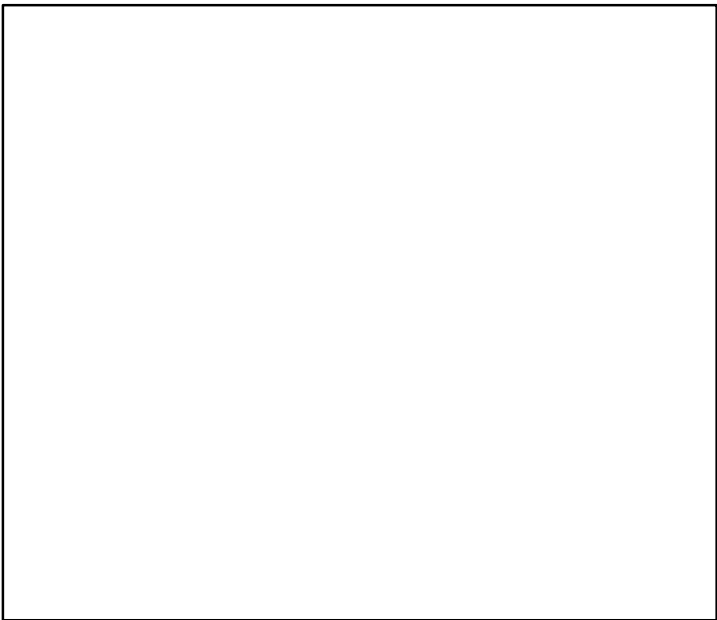
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	445		
TL	TL-MT	2020	491		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

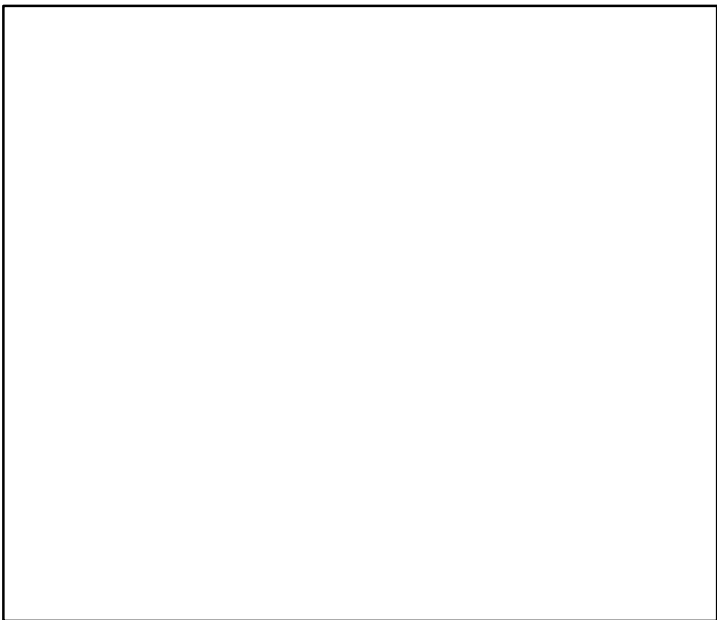
Kobe MSY\*



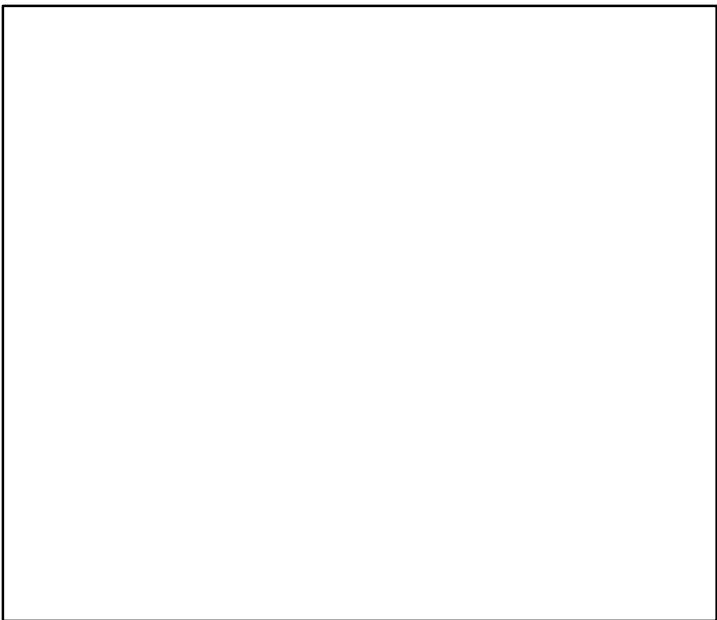
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Red seabream Azores Grounds [RBRMX]

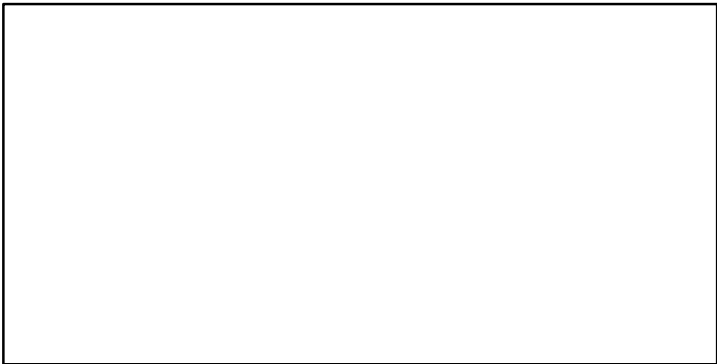
TB\*



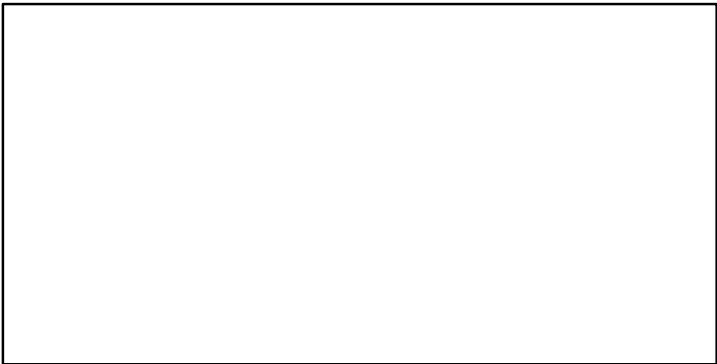
SSB\*



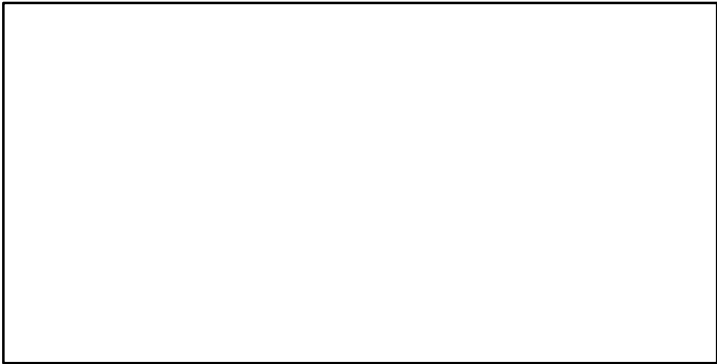
TN \*



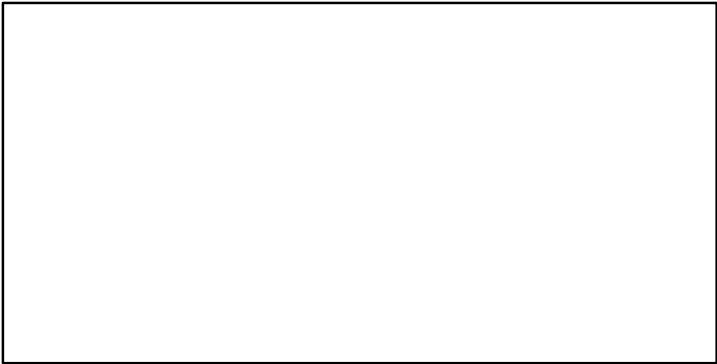
F\*



ER\*



Recruits\*

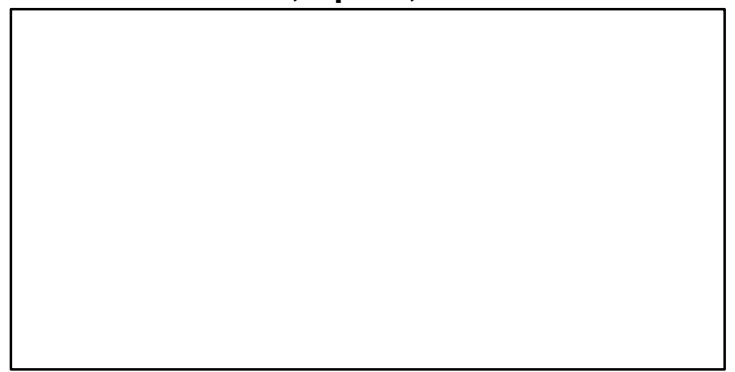
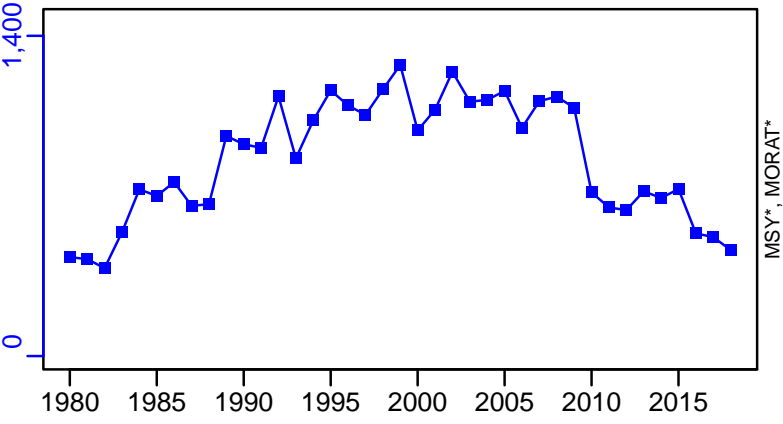


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	· · · Lim BRP	* No Data

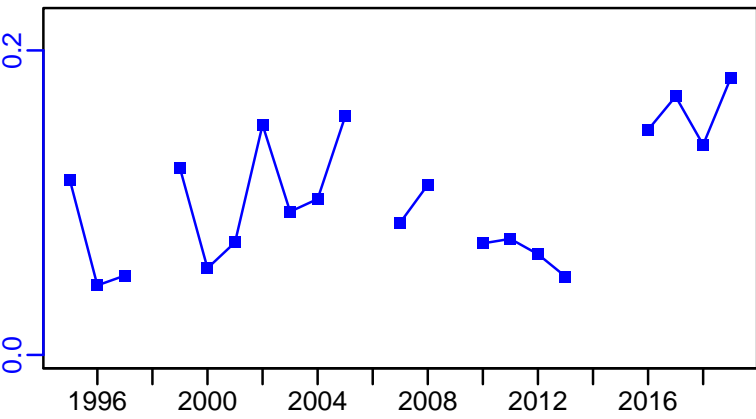
# Red seabream Azores Grounds [RBRMX]

TC-MT, TL\*, RecC\* (1980-2018-ICESIMP2021)

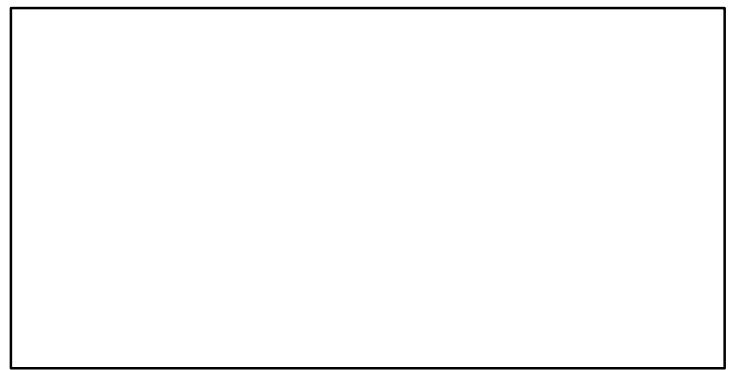
TAC\*, Cpair\*, Cadv\*



survB-index (1980-2020-ICESIMP2021-2)



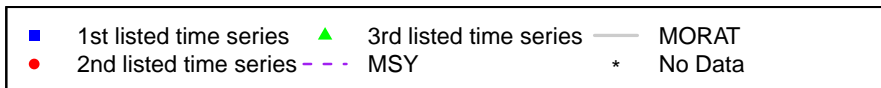
CPUE\*



EFFORT\*



CdivMSY\*





## Red grouper Gulf of Mexico [RGROUPGM]

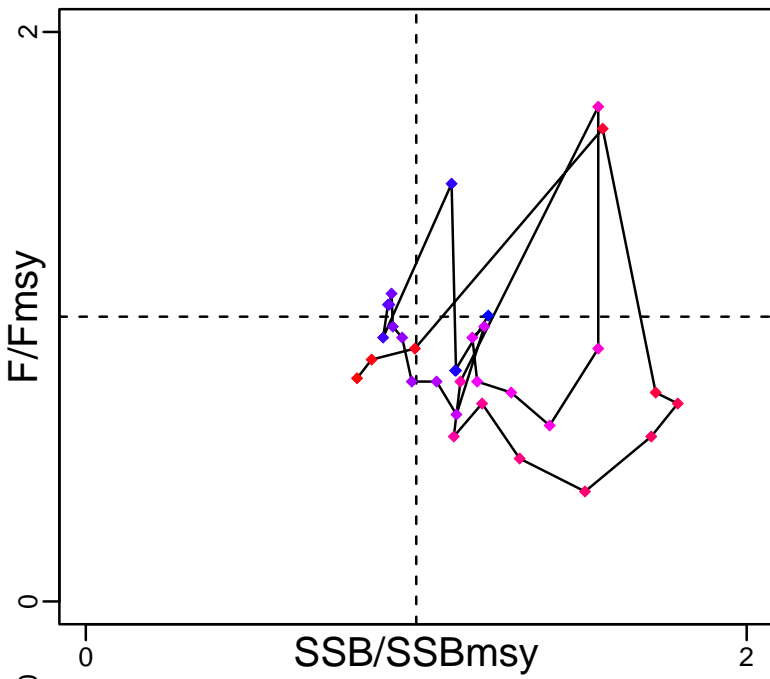
Metadata	
<b>Scientific Name</b>	Epinephelus morio
<b>Current Assess ID</b>	SEFSC-RGROUPGM-1963-2017-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2017, 2005, 2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2013	30,798
<b>SSBmsy</b>	SSBmsy-E00eggs	2017	$7.48 \times 10^8$
<b>Fmsy</b>	Fmsy-1/yr	2017	0.259
<b>ERmsy</b>	ERmsy-ratio	2013	0.212
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2013	0.164
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2013	6529
<b>M</b>	M-1/yr	2005	0.14
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2017	$3.74 \times 10^8$
<b>Flim</b>	Flim-1/yr	2017	0.259
<b>ERlim</b>	ERlim-ratio	2013	0.212

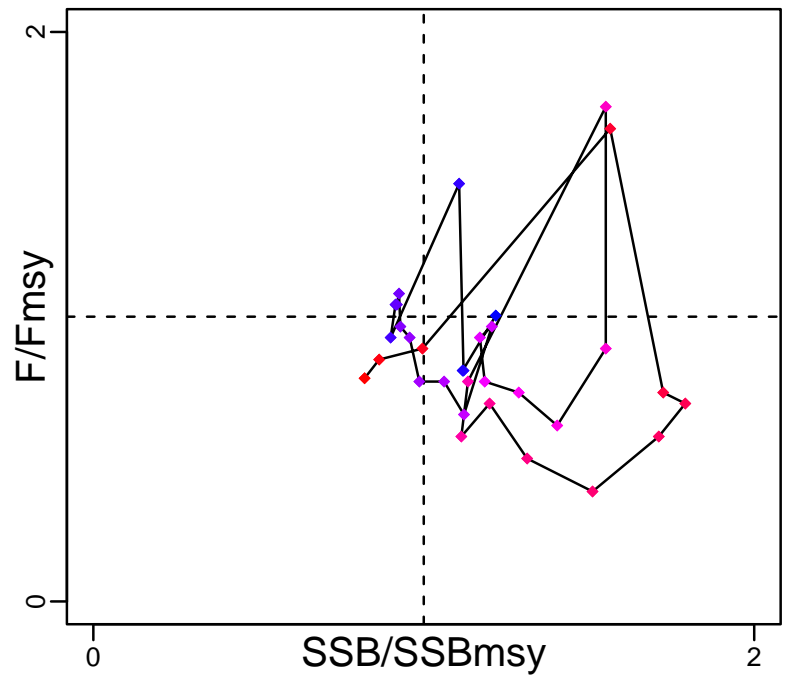
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	46,500	-	0+
<b>SSB</b>	SSB-E00eggs	2017	$6.14 \times 10^8$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	14,200,000	-	0
<b>F</b>	F-1/yr	2017	0.203	-	-
<b>ER</b>	ER-ratio	2013	0.126	-	-
<b>TC</b>	TC-MT	2017	1510		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT	2013	1.51		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2017	0.821		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	0.784		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2013	0.594		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Red grouper Gulf of Mexico [RGROUPGM]

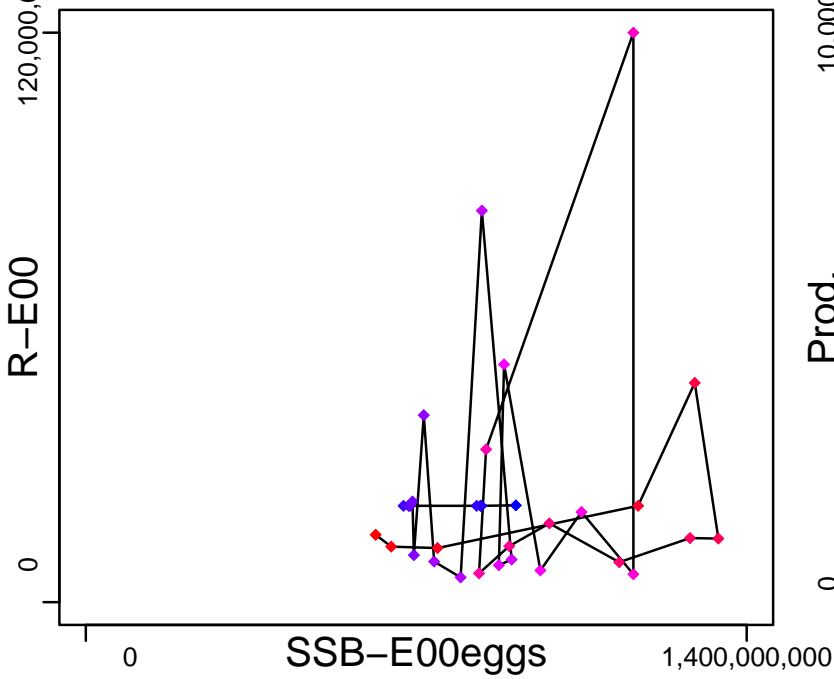
Kobe MSYpref (1963–2017–SISIMP2021–2)



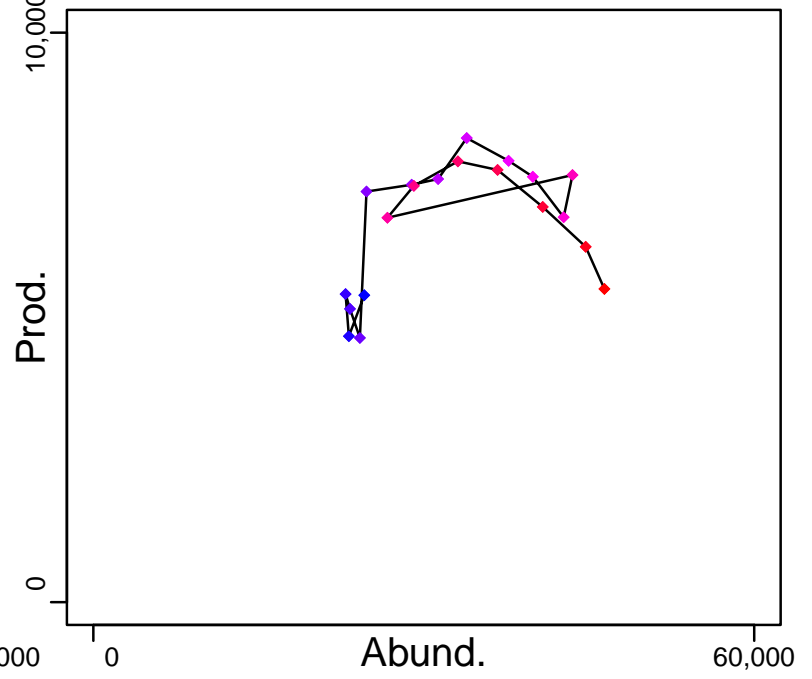
Kobe MGTpref (1963–2017–SISIMP2021–2)



Spawner Recruit (1963–2017–SISIMP2021–2)



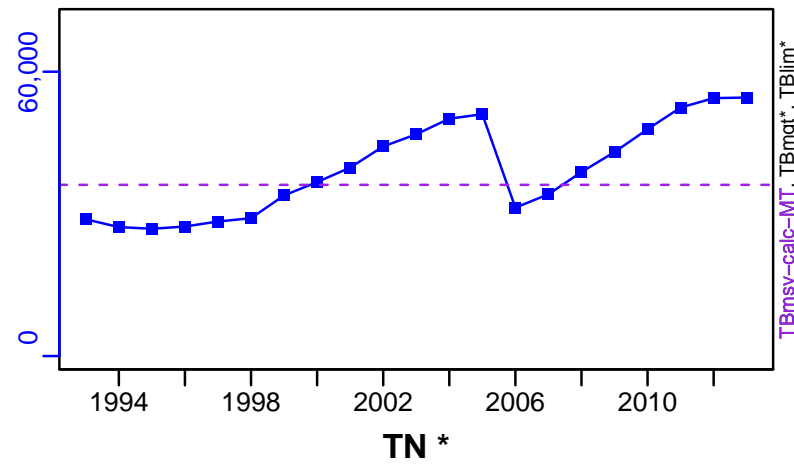
Production (1993–2013–SISIMP2016)



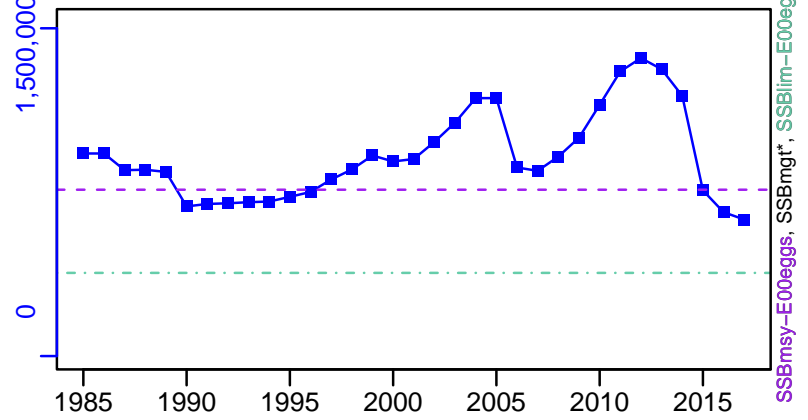
◆ Start Year ◆ End Year \* No Data

# Red grouper Gulf of Mexico [RGROUPGM]

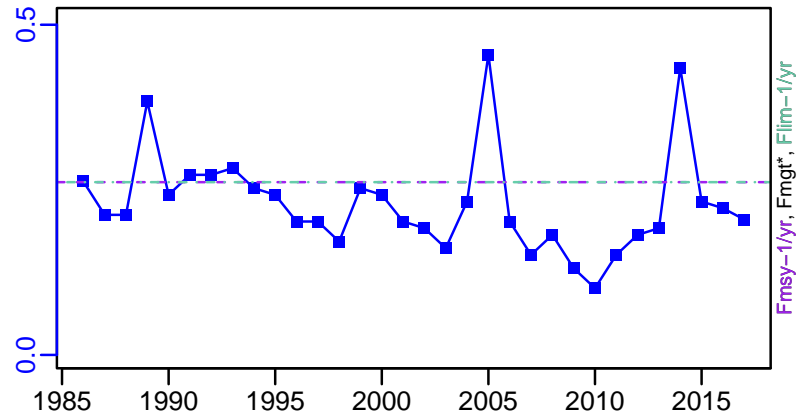
TB-MT (1993–2013–SISIMP2016)



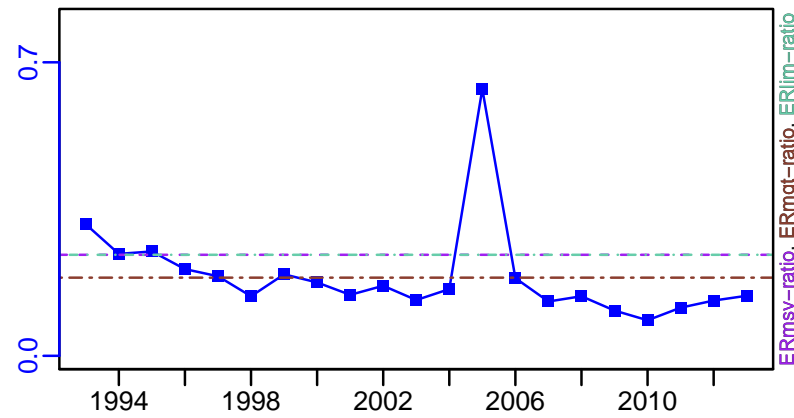
SSB-E00eggs (1963–2017–SISIMP2021–2)



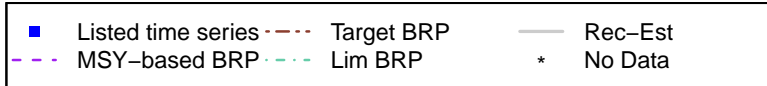
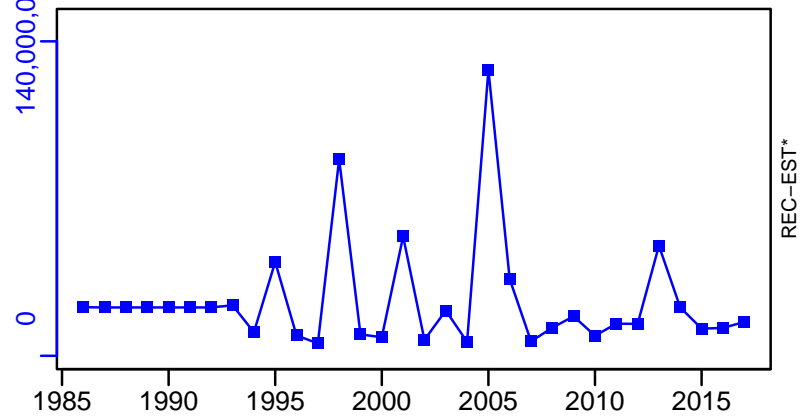
F-1/yr (1963–2017–SISIMP2021–2)



ER-ratio (1993–2013–SISIMP2016)

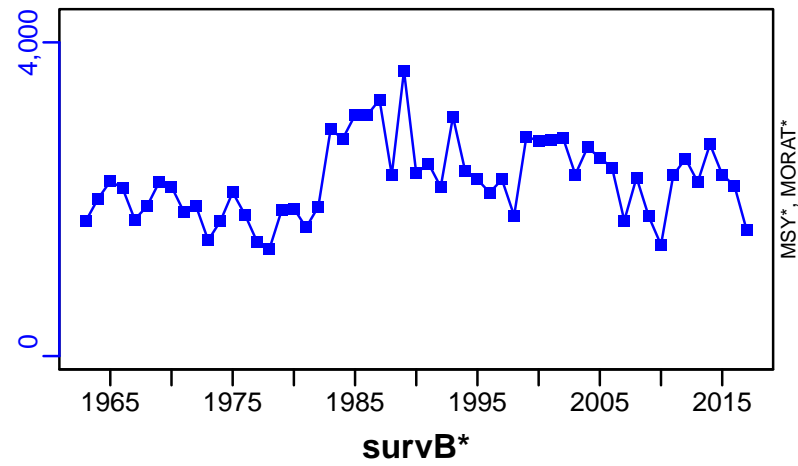


R-E00 (1963–2017–SISIMP2021–2)

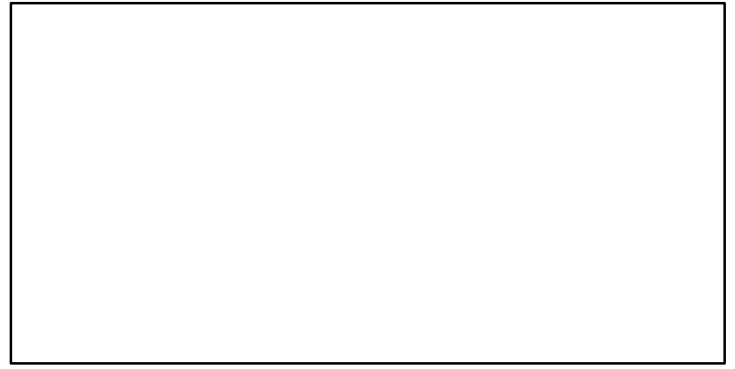


# Red grouper Gulf of Mexico [RGROUPGM]

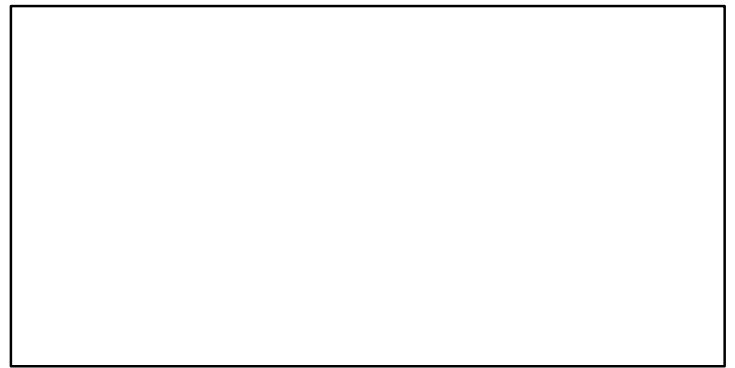
TC-MT, TL\*, RecC\* (1963-2017-SISIMP2021-2)



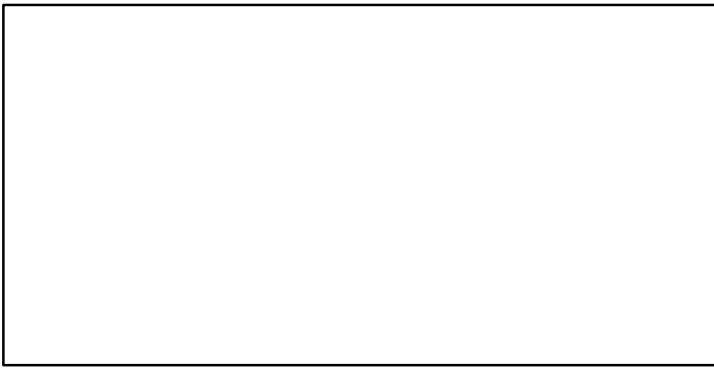
TAC\*, Cpair\*, Cadv\*



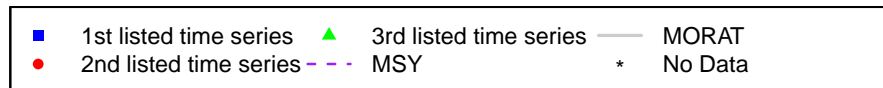
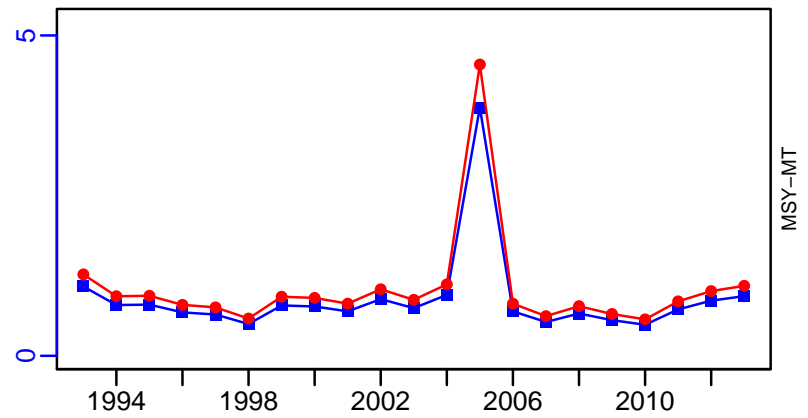
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1993-2013-SISIMP2016)



## Red grouper South Atlantic [RGROUPSATL]

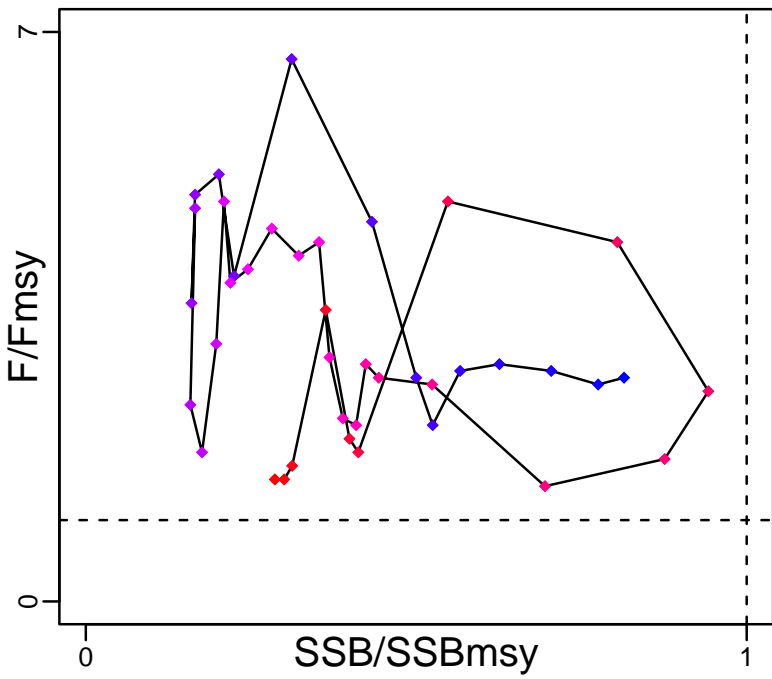
Metadata	
<b>Scientific Name</b>	Epinephelus morio
<b>Current Assess ID</b>	SEFSC-RGROUPSATL-1975-2015-SISIMP2021
<b>Area</b>	South Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2015, 2009

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2009	3680
<b>SSBmsy</b>	SSBmsy-MT	2015	3183
<b>Fmsy</b>	Fmsy-1/yr	2015	0.12
<b>ERmsy</b>	ERmsy-calc-ratio	2009	0.137
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2009	503
<b>M</b>	M-1/yr	2009	0.14
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2015	2387
<b>Flim</b>	Flim-1/yr	2015	0.12
<b>ERlim</b>	-	-	-

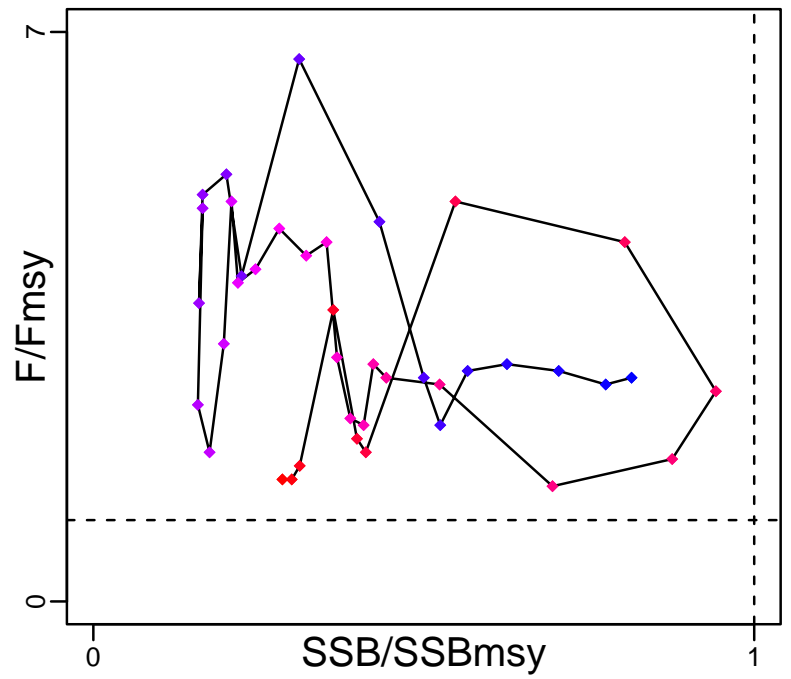
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2009	2760	-	-
<b>SSB</b>	SSB-MT	2015	911	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	151,485	-	1
<b>F</b>	F-1/yr	2015	0.18	-	-
<b>ER</b>	ER-calc-ratio	2009	0.222	-	-
<b>TC</b>	TC-MT	2009	665		
<b>TL</b>	TL-MT	2009	647		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2009	0.75		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2015	0.286		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	1.5		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2009	1.62		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Red grouper South Atlantic [RGROUPSATL]

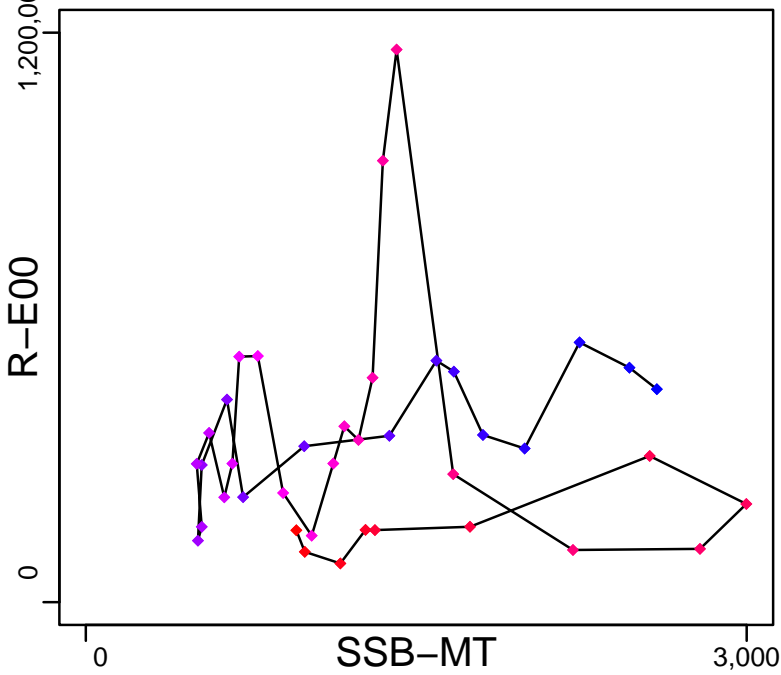
Kobe MSYpref (1975–2015–SISIMP2021)



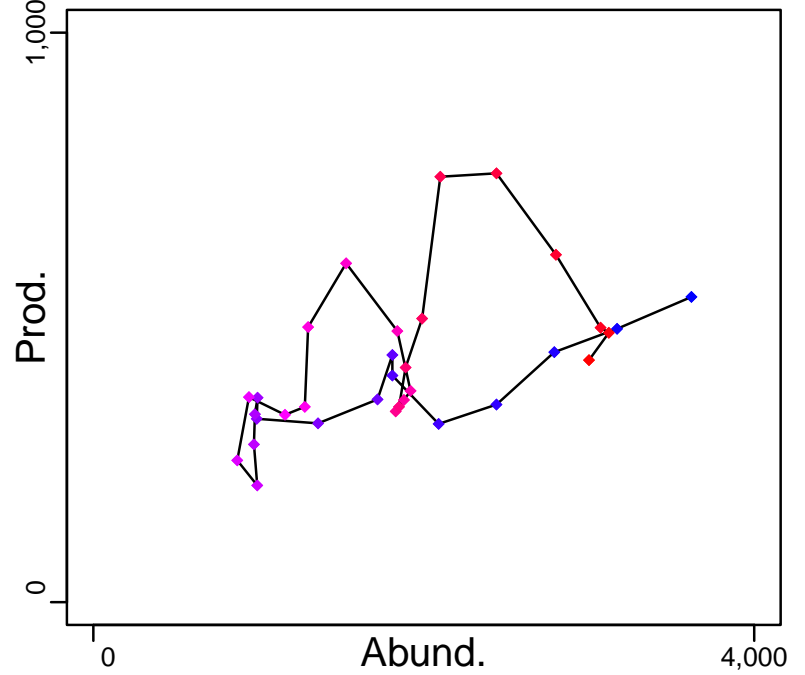
Kobe MGTpref (1975–2015–SISIMP2021)



Spawner Recruit (1975–2015–SISIMP2021)



Production (1976–2009–HIVELY)

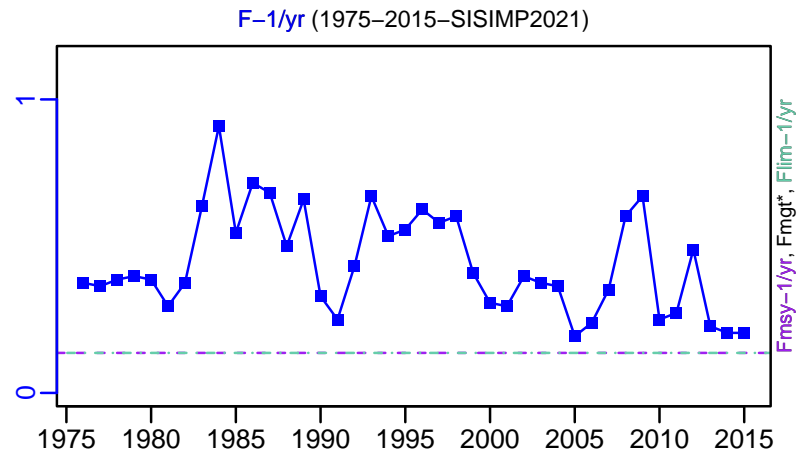
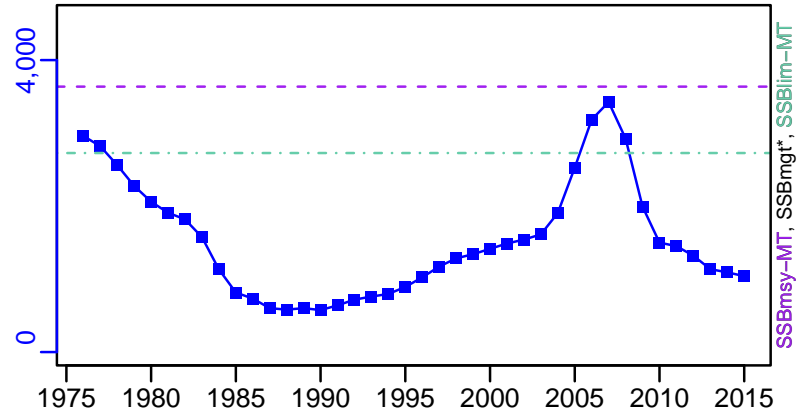
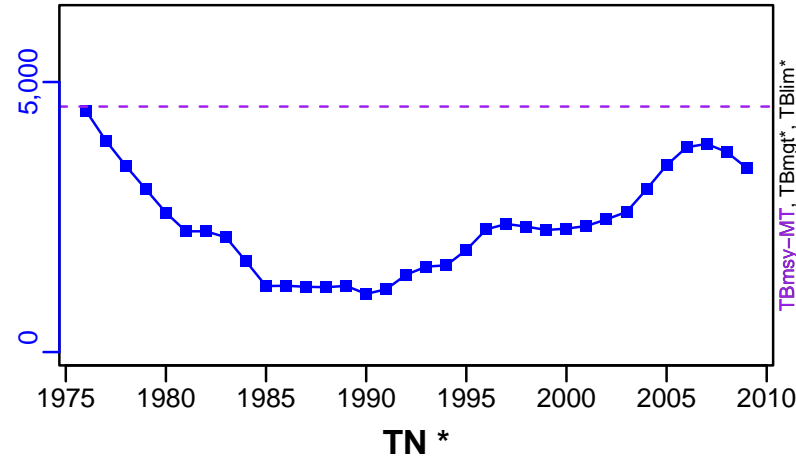


◆ Start Year ◆ End Year \* No Data

# Red grouper South Atlantic [RGROUPSATL]

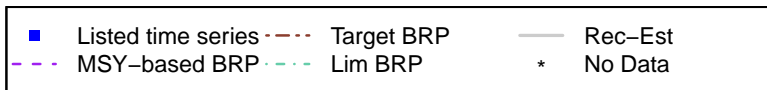
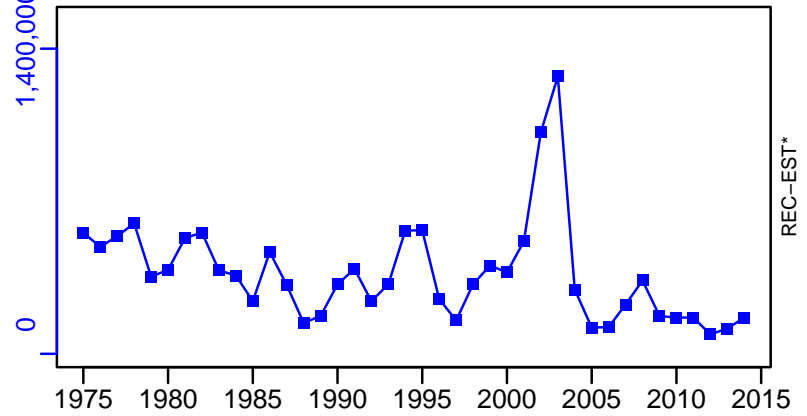
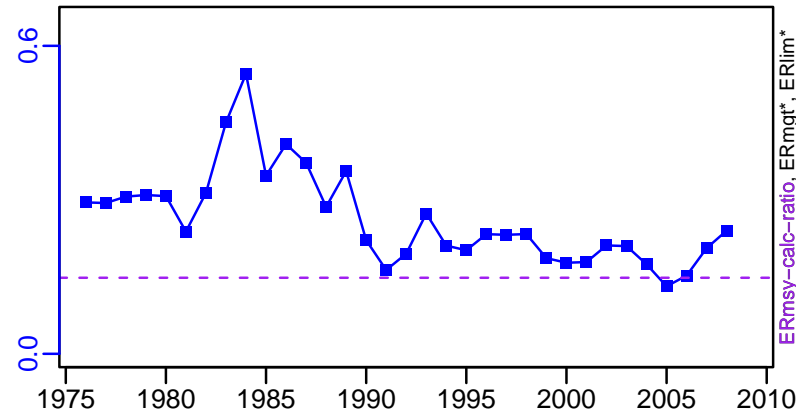
TB-MT (1976–2009–HIVELY)

SSB-MT (1975–2015–SISIMP2021)



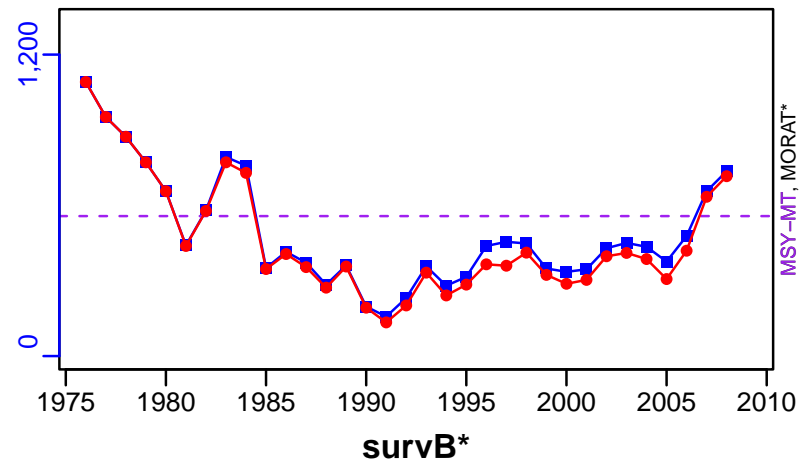
ER-calc-ratio (1976–2009–HIVELY)

R-E00 (1975–2015–SISIMP2021)

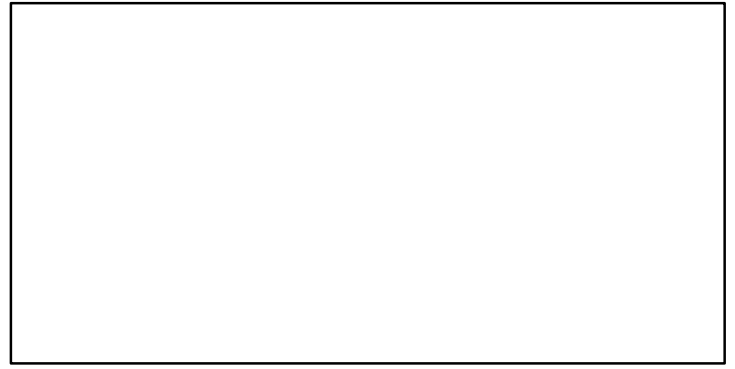


# Red grouper South Atlantic [RGROUPSATL]

TC-MT, TL-MT, RecC\* (1976–2009–HIVELY)



TAC\*, Cpair\*, Cadv\*



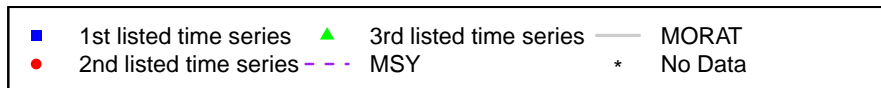
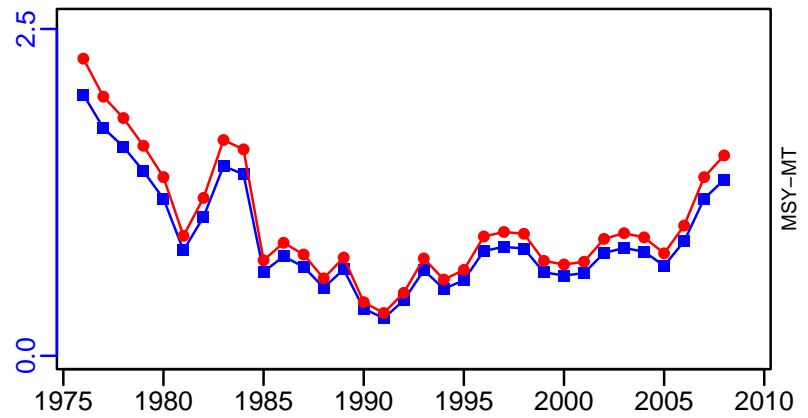
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1976–2009–HIVELY)





## Rubberlip grunt North West Africa [RGRUNTNWA]

Metadata	
<b>Scientific Name</b>	Plectorhinchus mediterraneus
<b>Current Assess ID</b>	FAO-DR-RGRUNTNWA-1990-2016-ASHBROOK
<b>Area</b>	North West Africa
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2016

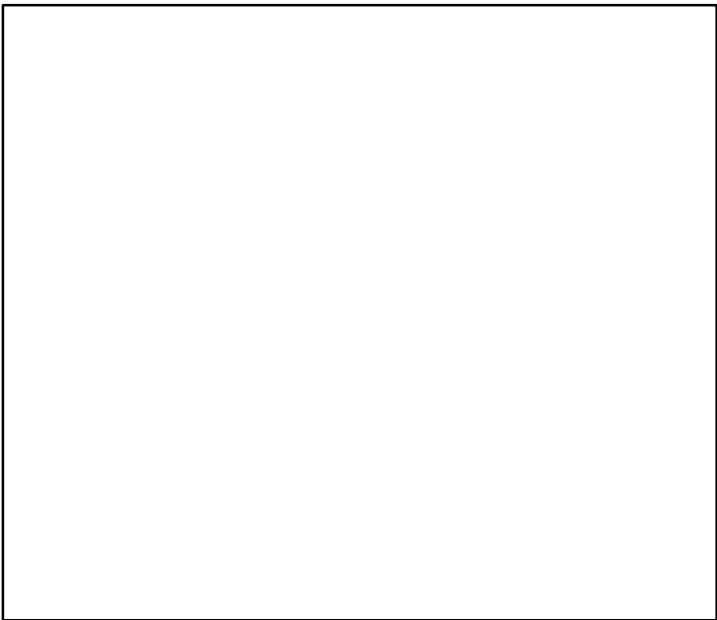
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	7708		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

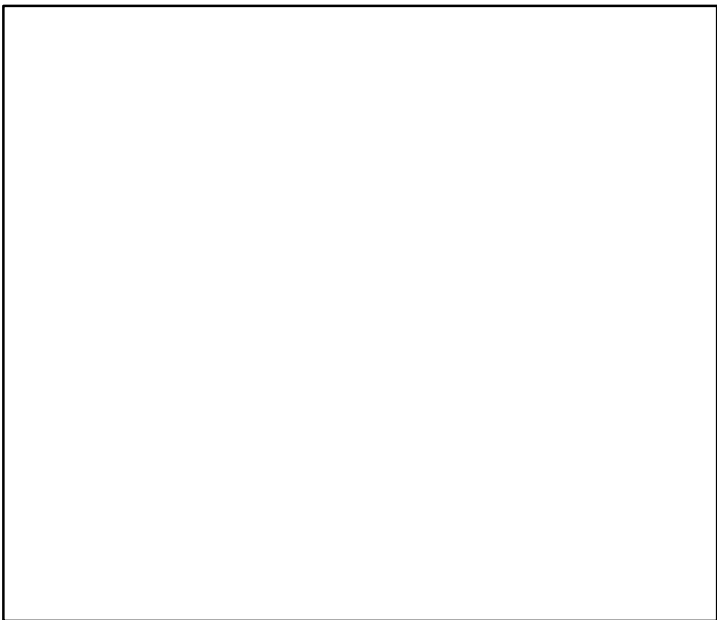
Kobe MSY\*



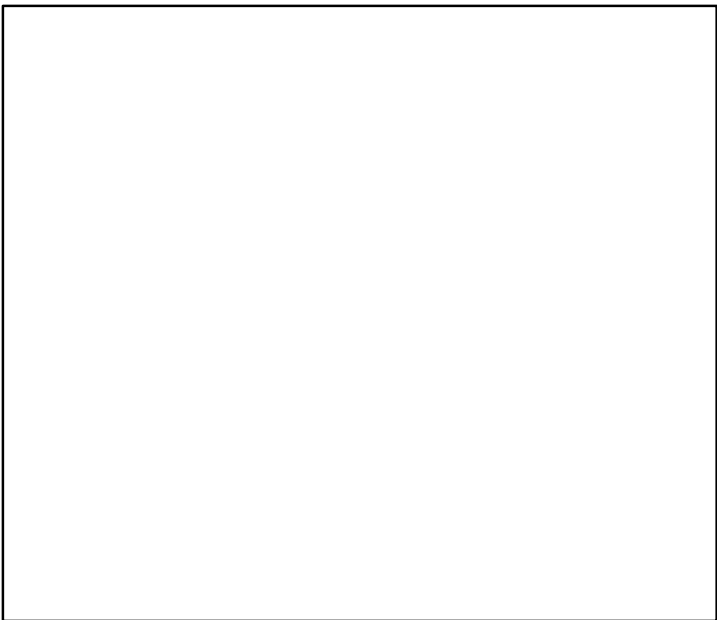
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Rubberlip grunt North West Africa [RGRUNTNWA]

TB\*



SSB\*



TN \*



F\*



ER\*

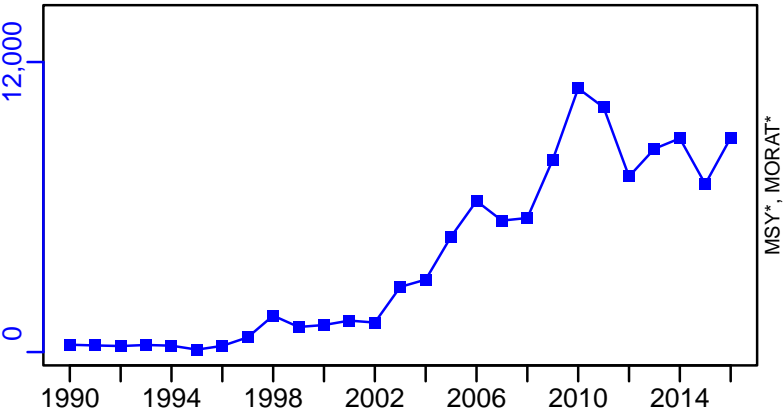


Recruits\*



Rubberlip grunt North West Africa [RGRUNTNWA]

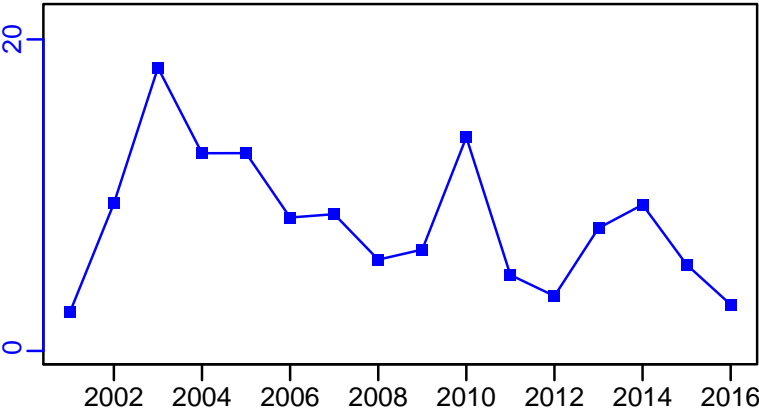
TC-MT, TL\*, RecC\* (1990-2016-ASHBROOK)



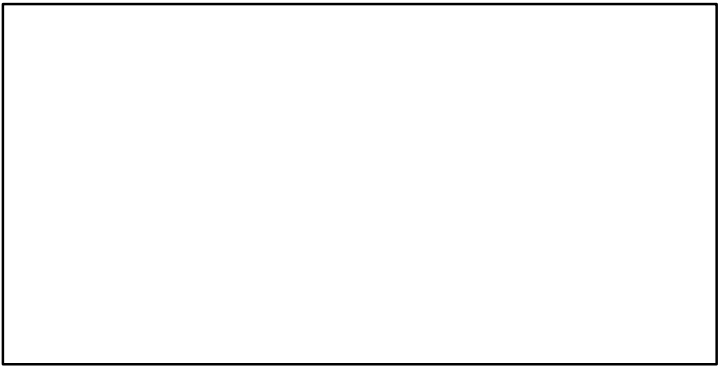
TAC\*, Cpair\*, Cadv\*



survB\_index-index (1990-2016-ASHBROOK)



CPUE\*



CdivMSY\*



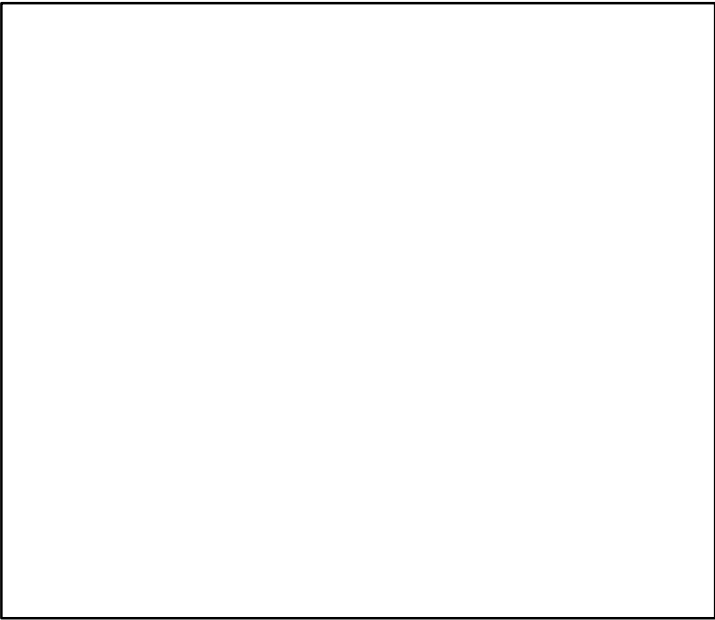
## Red mullet Northern Alboran Sea [RMULLMEDGSA1]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA1-2004-2019-MEDIMP2021-2
<b>Area</b>	Northern Alboran Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013, 2019

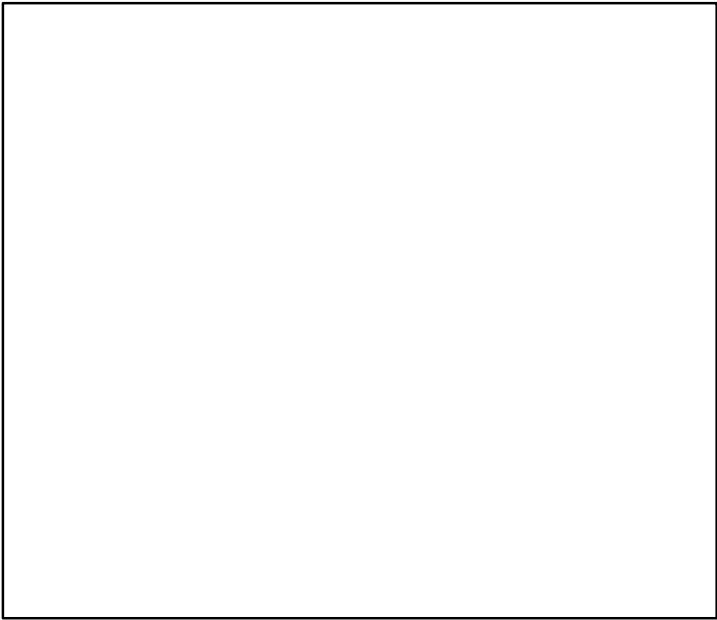
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2019	0.702
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</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	2019	161	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	3,890,013	-	-
<b>F</b>	F-1/yr	2019	1.028	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2019	115		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	1.463		
<b>ER/ERmgt</b>	-	-	-		

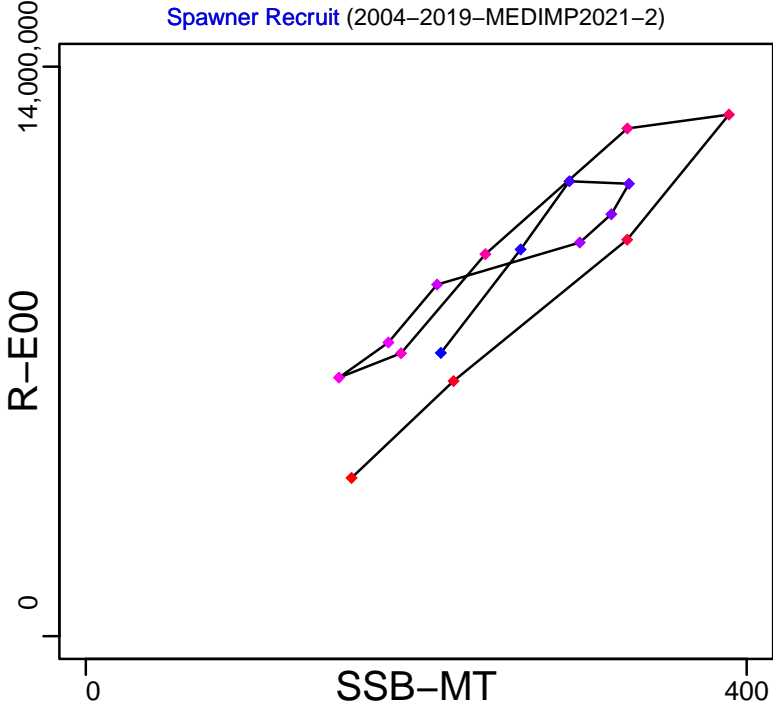
Kobe MSY\*



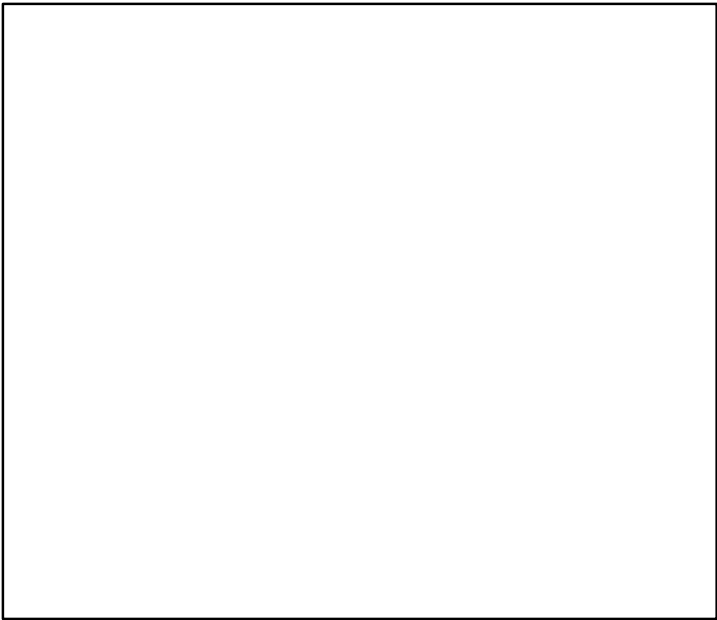
Kobe MGT\*



Spawner Recruit (2004–2019–MEDIMP2021–2)



Production\*



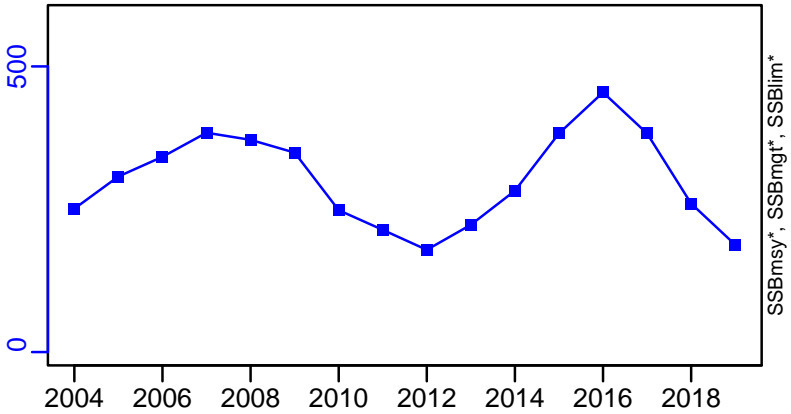
◆ Start Year ◆ End Year \* No Data

Red mullet Northern Alboran Sea [RMULLMEDGSA1]

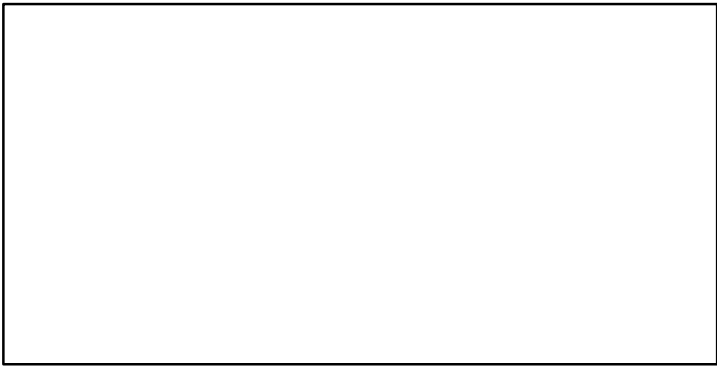
TB\*



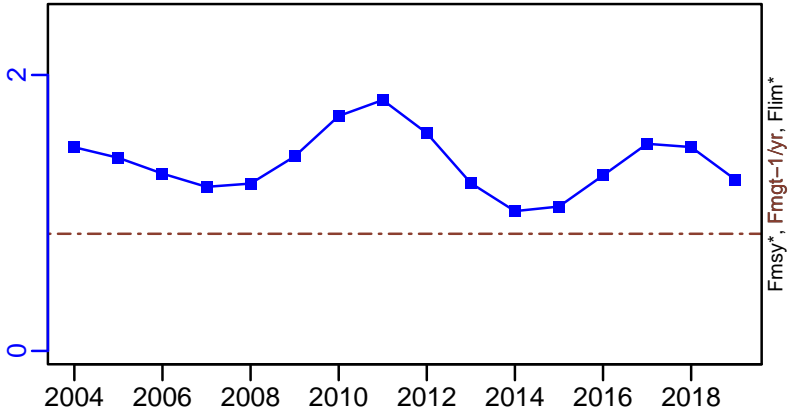
SSB-MT (2004-2019-MEDIMP2021-2)



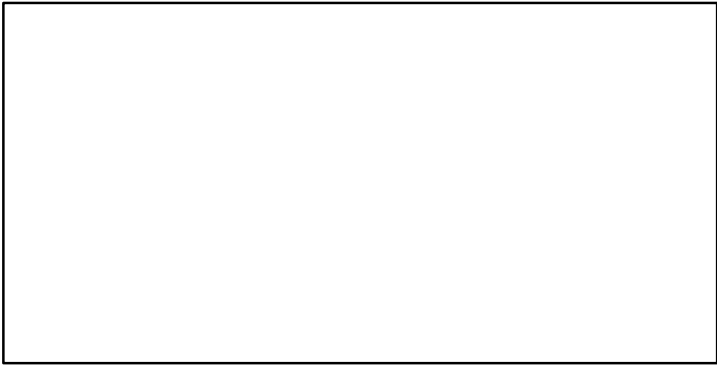
TN \*



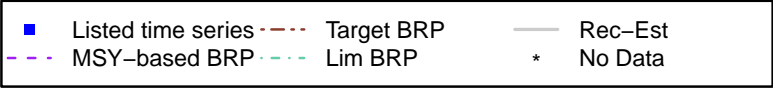
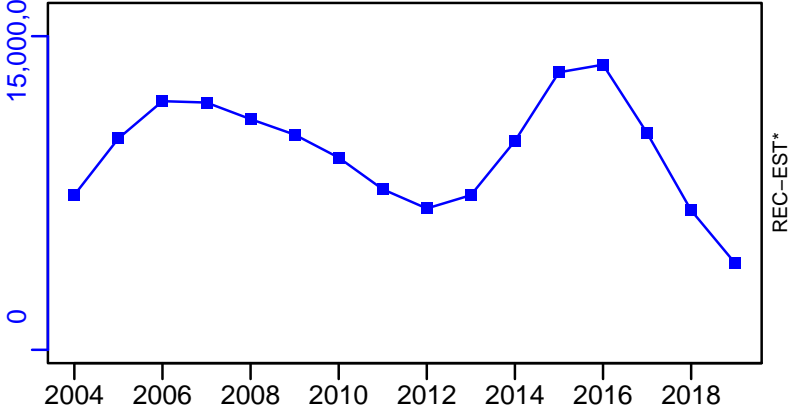
F-1/yr (2004-2019-MEDIMP2021-2)



ER\*

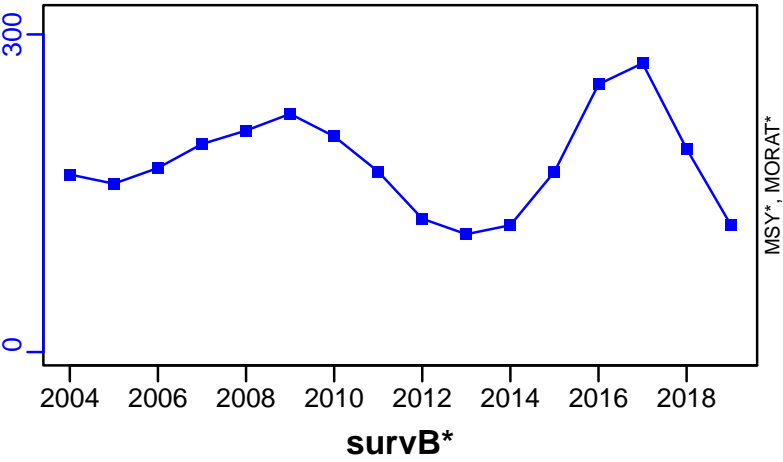


R-E00 (2004-2019-MEDIMP2021-2)



Red mullet Northern Alboran Sea [RMULLMEDGSA1]

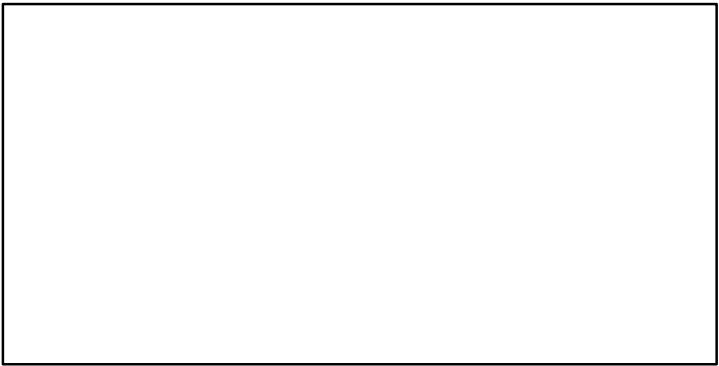
TC-MT, TL\*, RecC\* (2004-2019-MEDIMP2021-2)



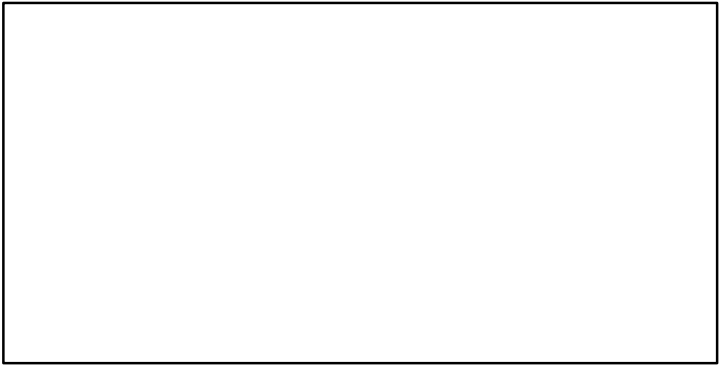
TAC\*, Cpair\*, Cadv\*



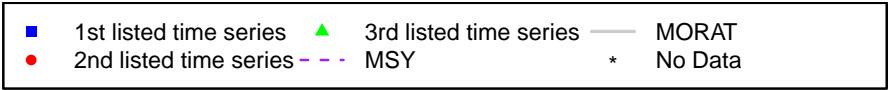
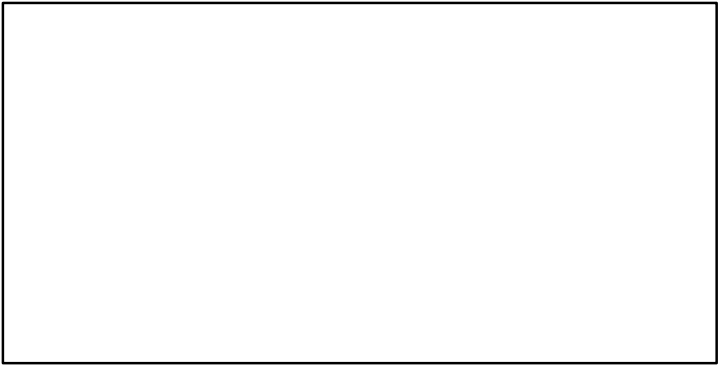
CPUE\*



EFFORT\*



CdivMSY\*





## Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

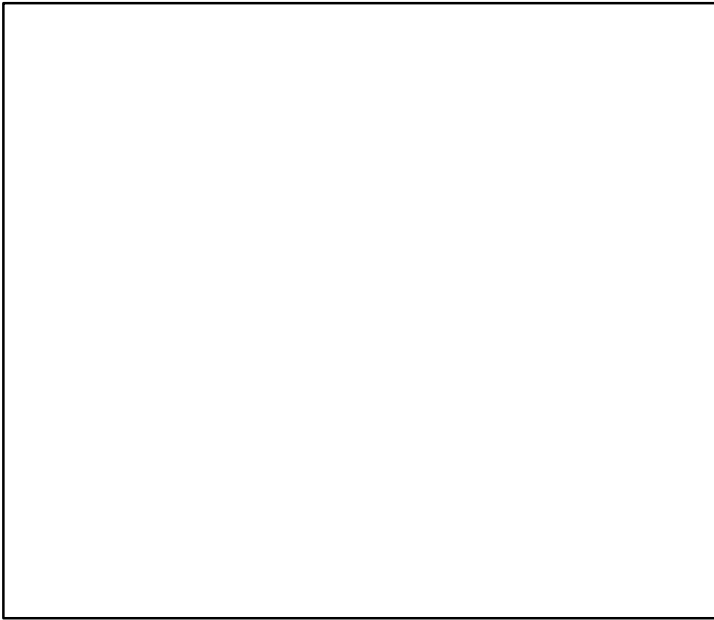
Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA10-2002-2019-MEDIMP2021-2
<b>Area</b>	South Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2019, 2010

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2019	0.393
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

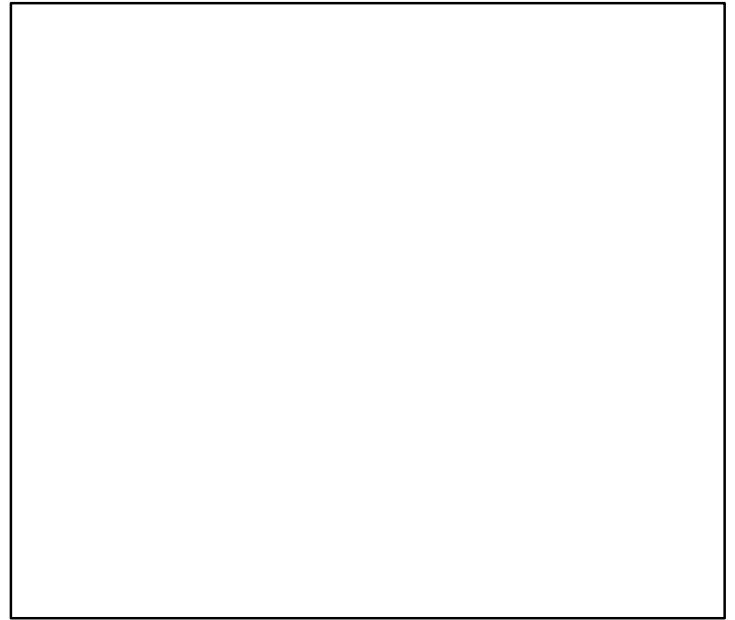
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2019	661	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	124,069,753	-	-
<b>F</b>	F-1/yr	2019	0.475	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2019	334		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	1.207		
<b>ER/ERmgt</b>	-	-	-		

Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

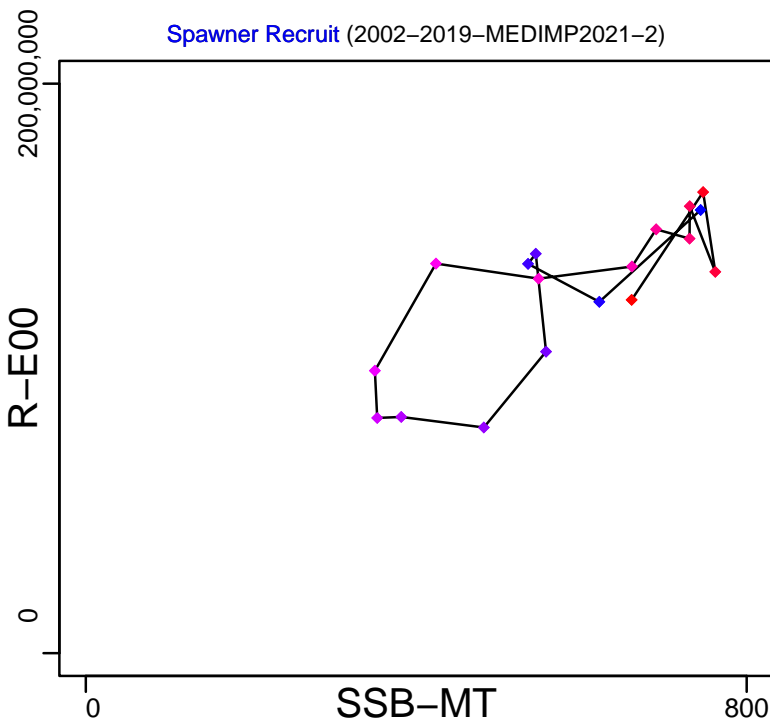
Kobe MSY\*



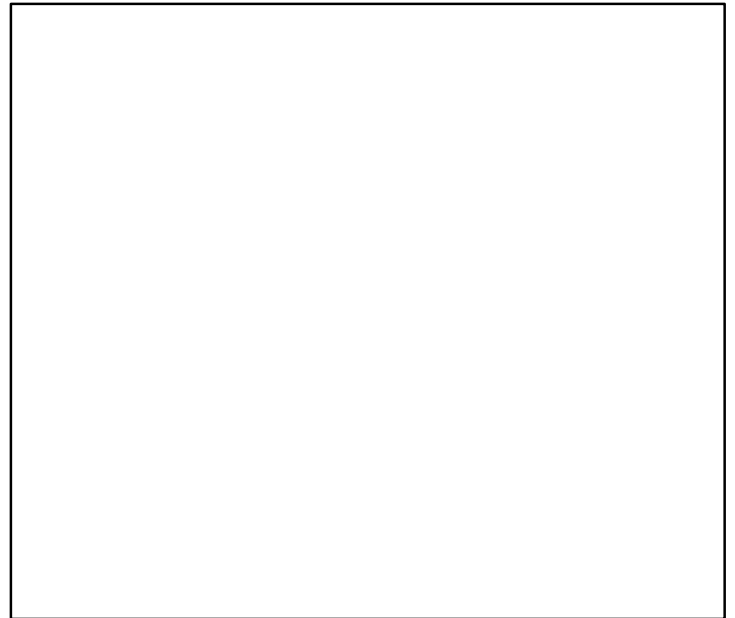
Kobe MGT\*



Spawner Recruit (2002–2019–MEDIMP2021–2)



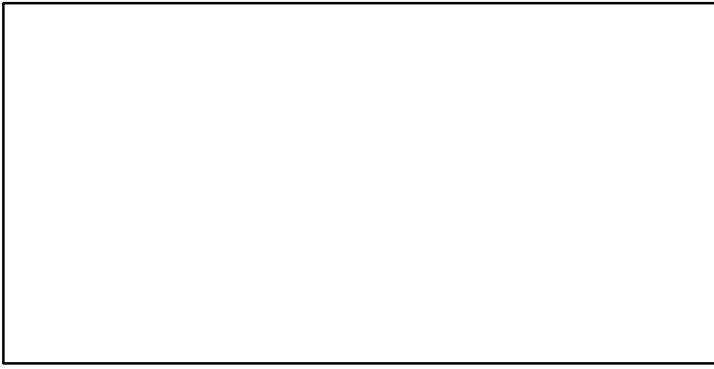
Production\*



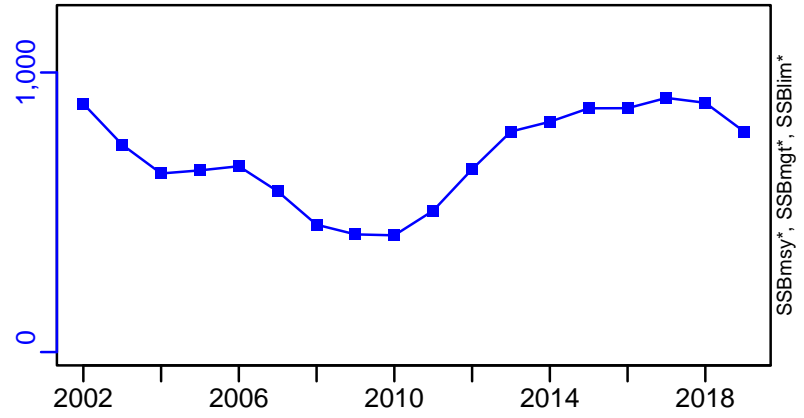
◆ Start Year ◆ End Year \* No Data

# Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

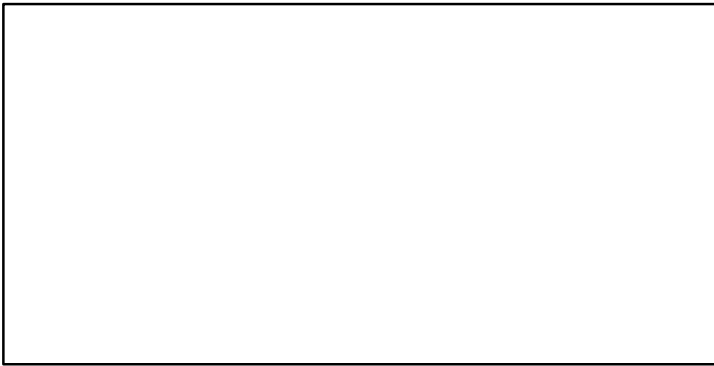
TB\*



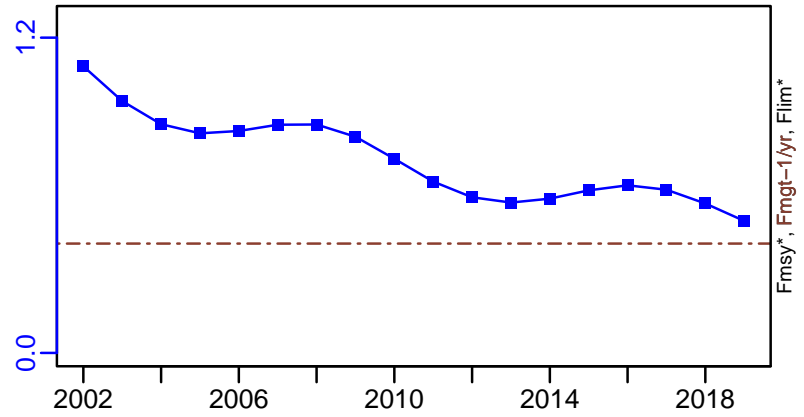
SSB-MT (2002-2019-MEDIMP2021-2)



TN \*



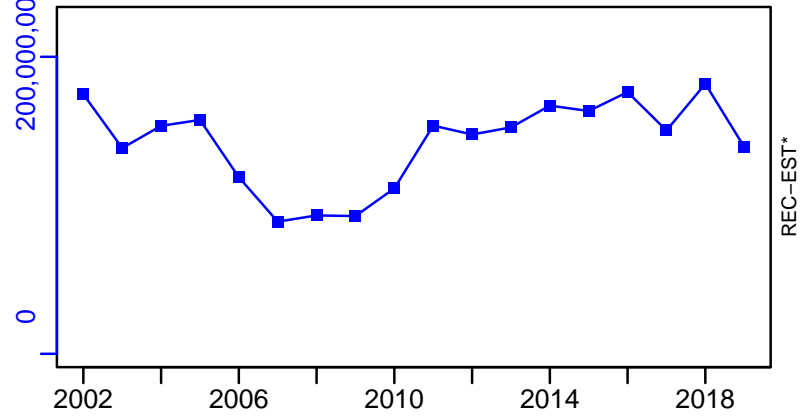
F-1/yr (2002-2019-MEDIMP2021-2)



ER\*

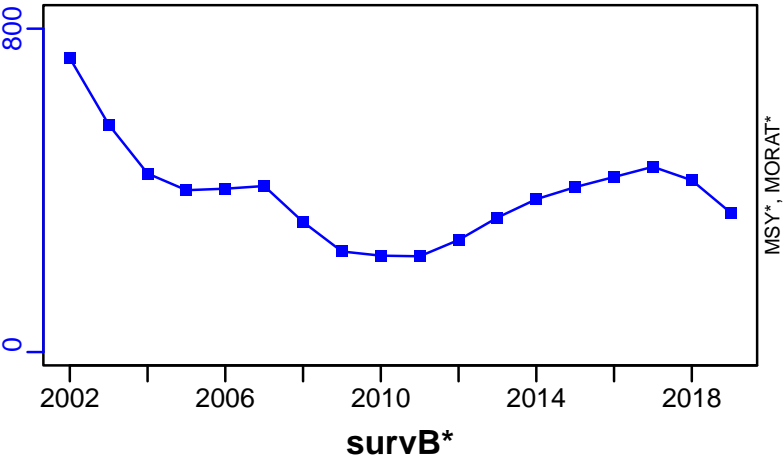


R-E00 (2002-2019-MEDIMP2021-2)



Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

TC-MT, TL\*, RecC\* (2002-2019-MEDIMP2021-2)



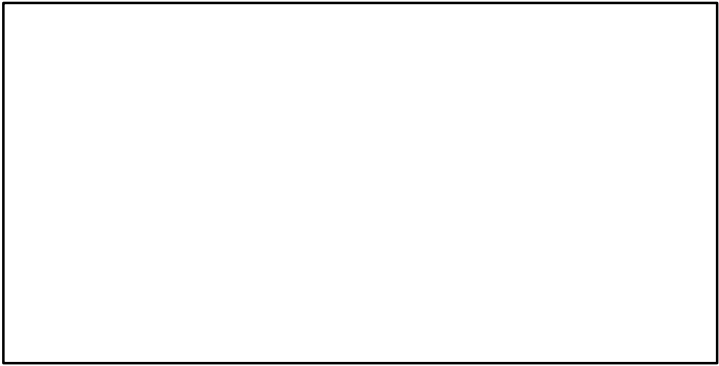
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



## Red mullet Sardinia [RMULLMEDGSA11]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA11-2005-2012-OSIO
<b>Area</b>	Sardinia
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2012	0.11
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	2012	94	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	26,600,000	-	-
<b>F</b>	F-1/yr	2012	1.05	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2012	136		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	9.545		
<b>ER/ERmgt</b>	-	-	-		

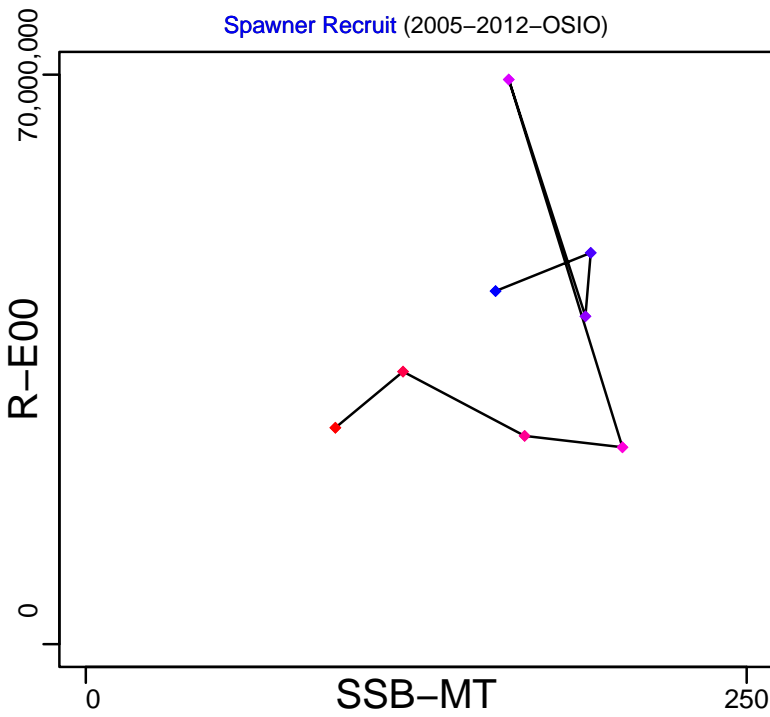
**Kobe MSY\***



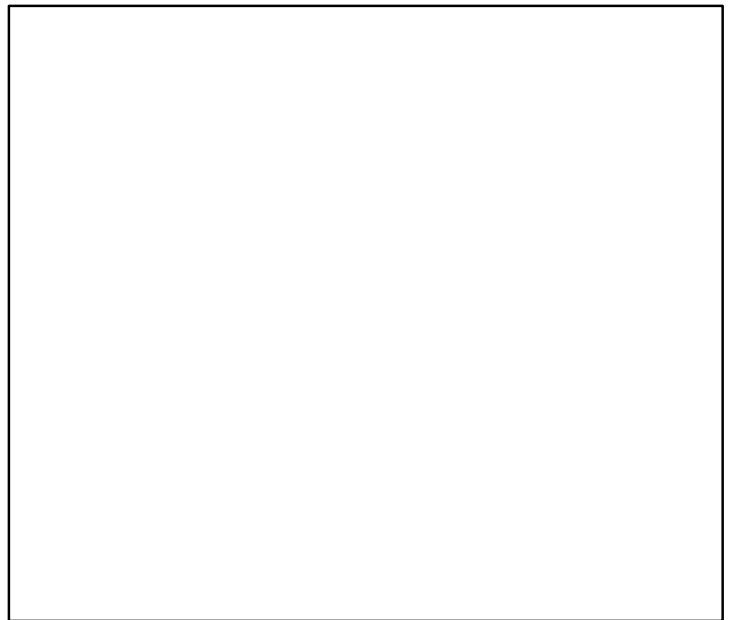
**Kobe MGT\***



**Spawner Recruit (2005–2012–OSIO)**



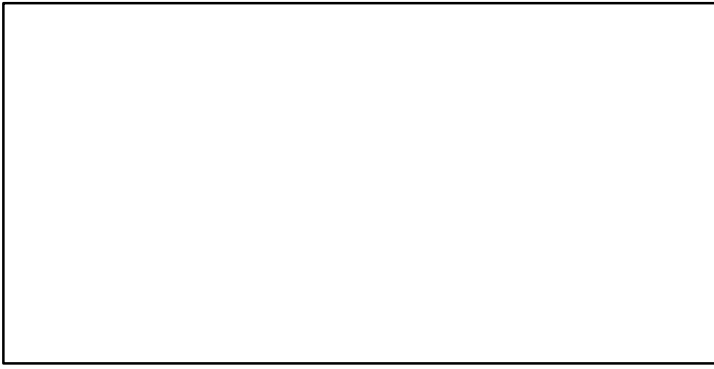
**Production\***



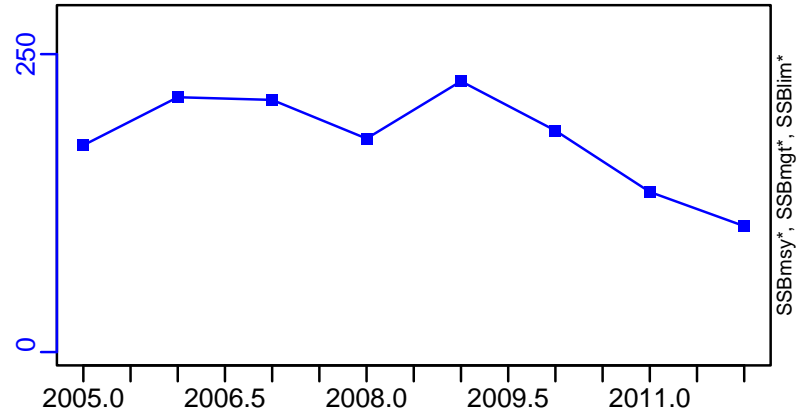
◆ Start Year ◆ End Year \* No Data

# Red mullet Sardinia [RMULLMEDGSA11]

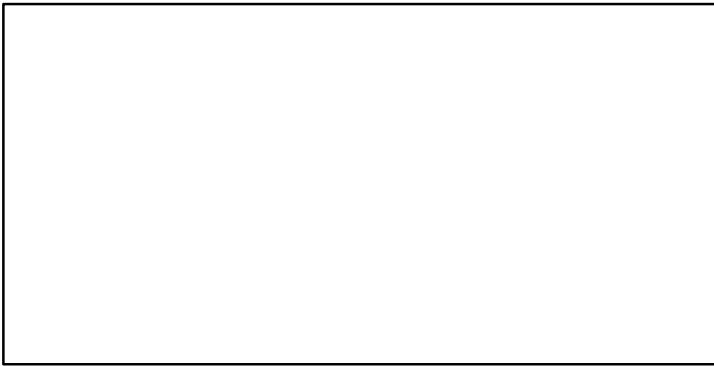
TB\*



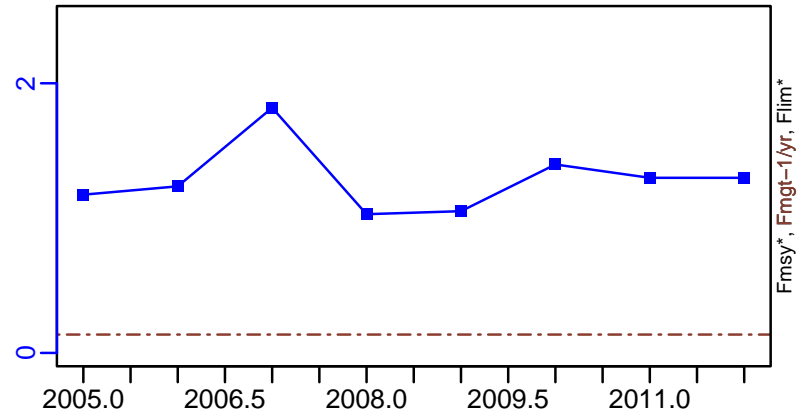
SSB-MT (2005–2012–OSIO)



TN \*



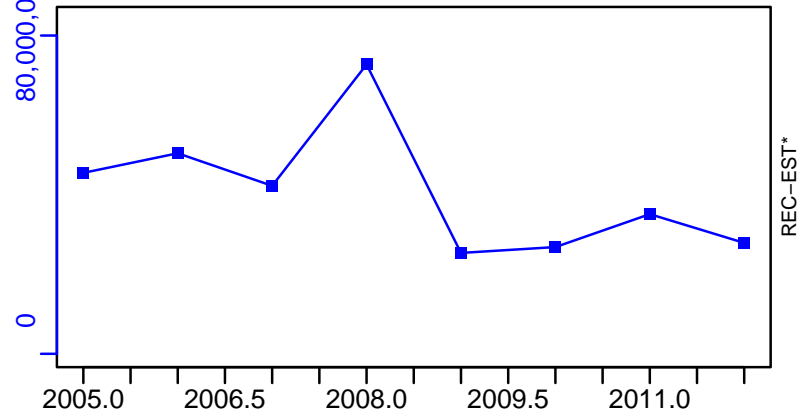
F-1/yr (2005–2012–OSIO)



ER\*

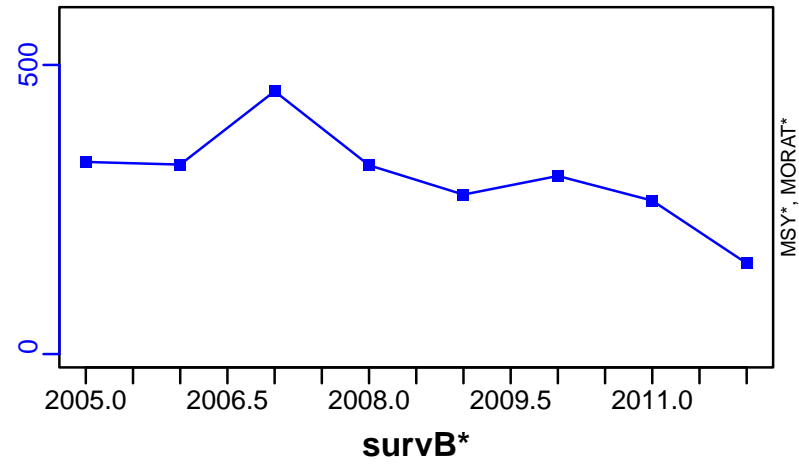


R-E00 (2005–2012–OSIO)

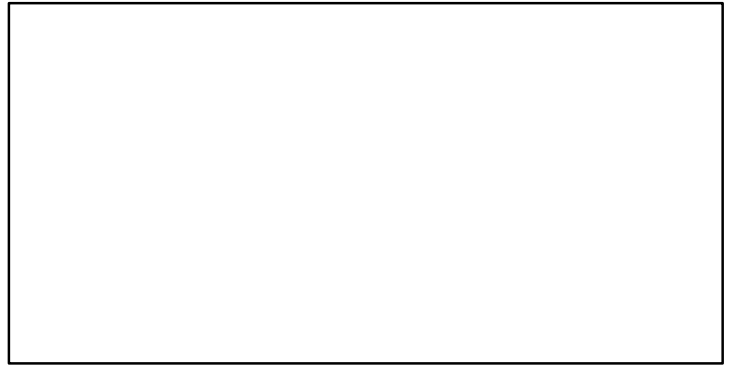


Red mullet Sardinia [RMULLMEDGSA11]

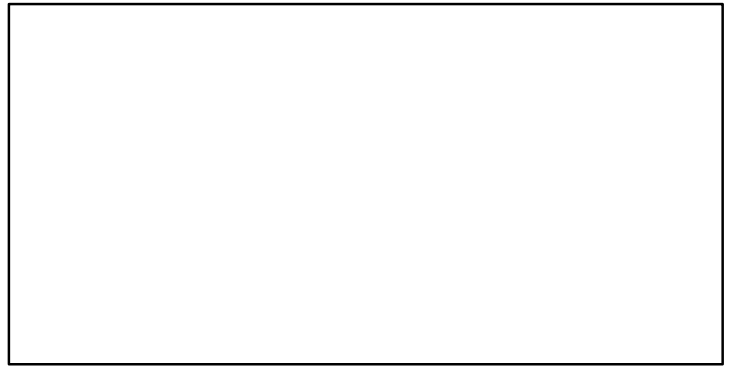
TC-MT, TL\*, RecC\* (2005–2012–OSIO)



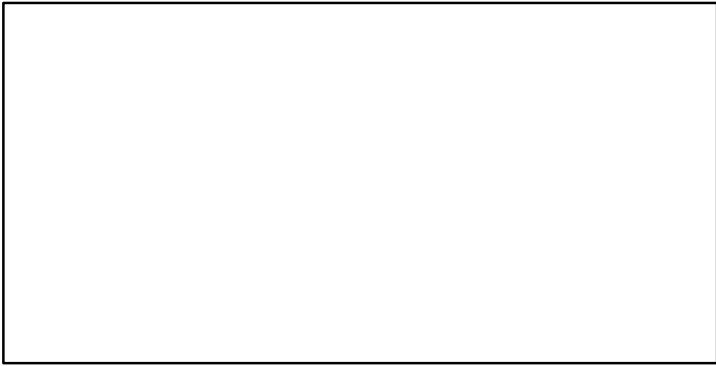
TAC\*, Cpair\*, Cadv\*



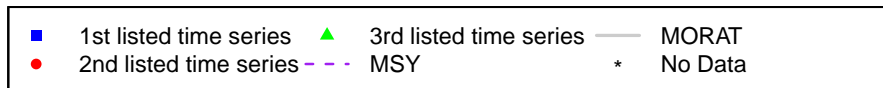
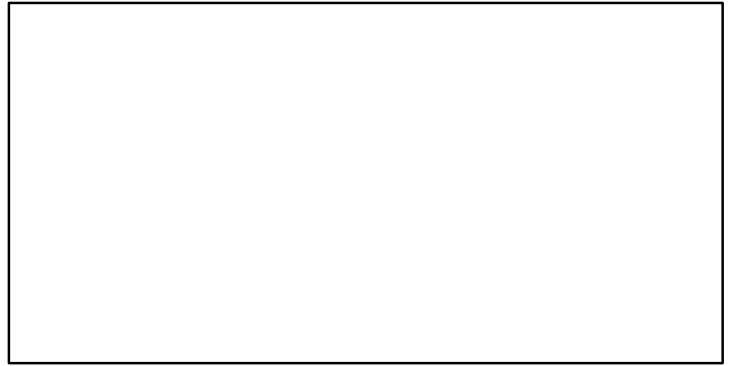
CPUE\*



EFFORT\*



CdivMSY\*





## Red mullet Malta Island and South of Sicily (GSA 15, 16) [RMULLMEDGSA15-16]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA15-16-2005-2011-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2011	0.45
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	2011	1150	-	1.5+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	68,900,000	-	-
<b>F</b>	F-1/yr	2011	1.3	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2011	609		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2011	2.889		
<b>ER/ERmgt</b>	-	-	-		

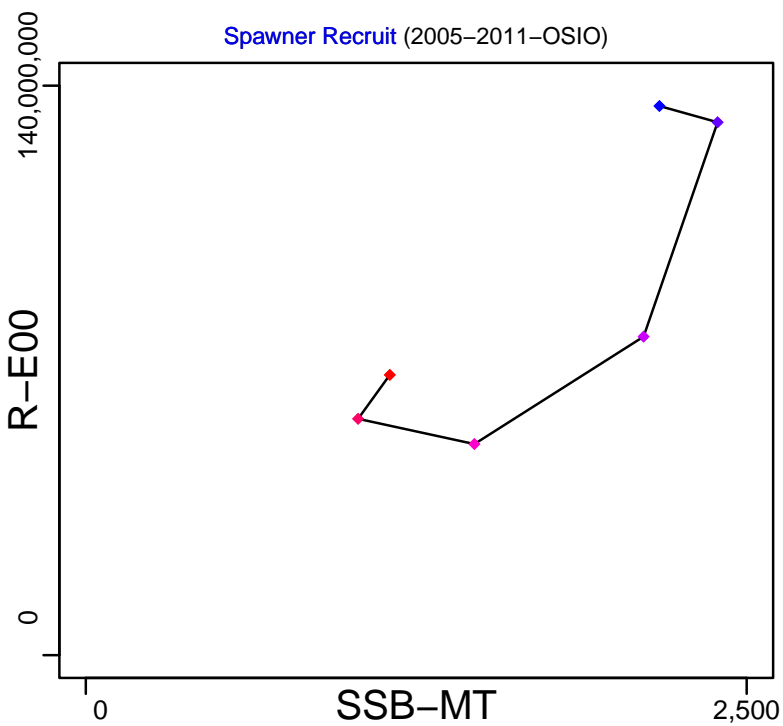
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit (2005-2011-OSIO)**



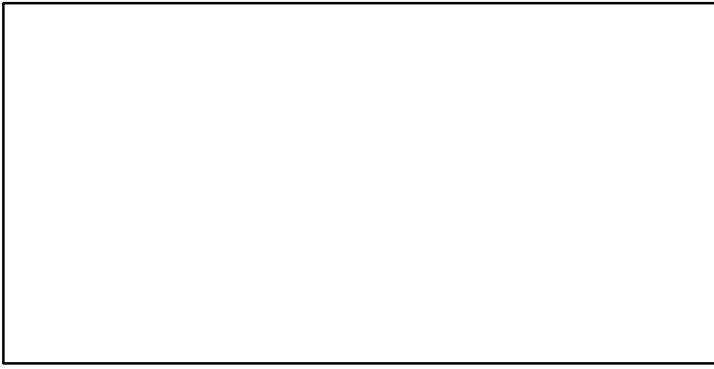
**Production\***



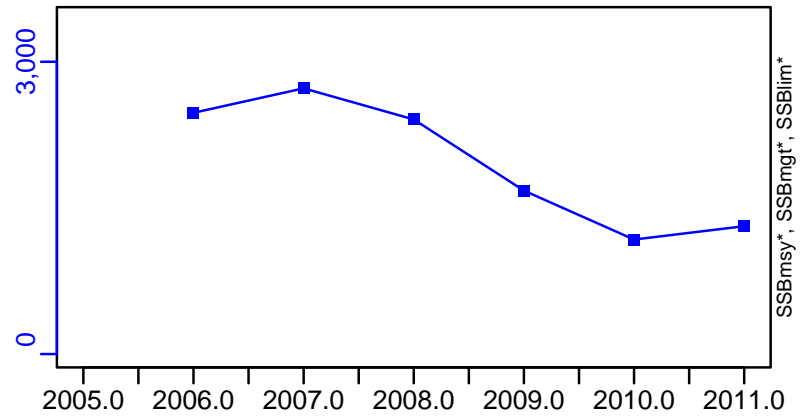
◆ Start Year ◆ End Year \* No Data

Red mullet Malta Island and South of Sicily (GSA 15, 16) [RMULLMEDGSA15-16]

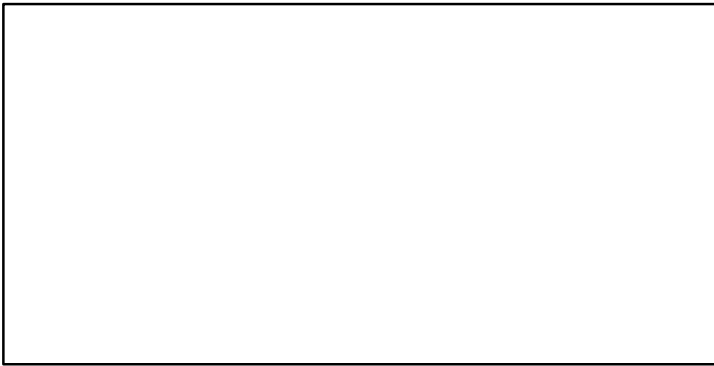
TB\*



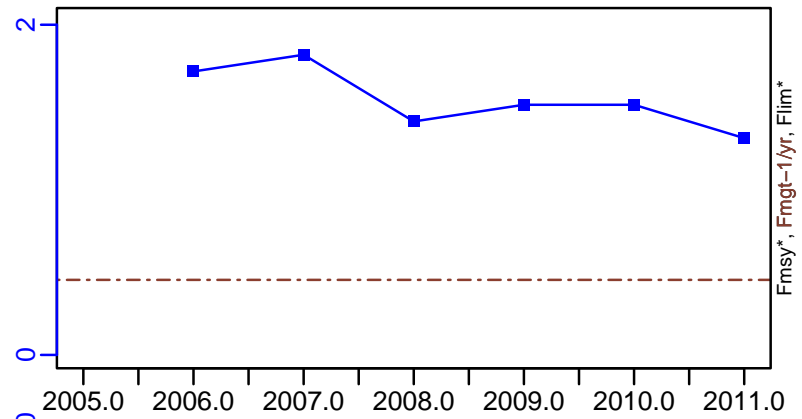
SSB-MT (2005-2011-OSIO)



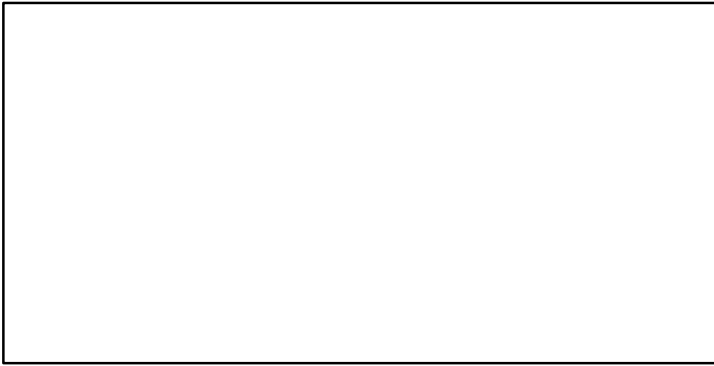
TN \*



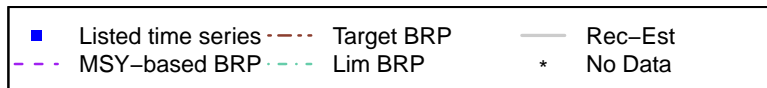
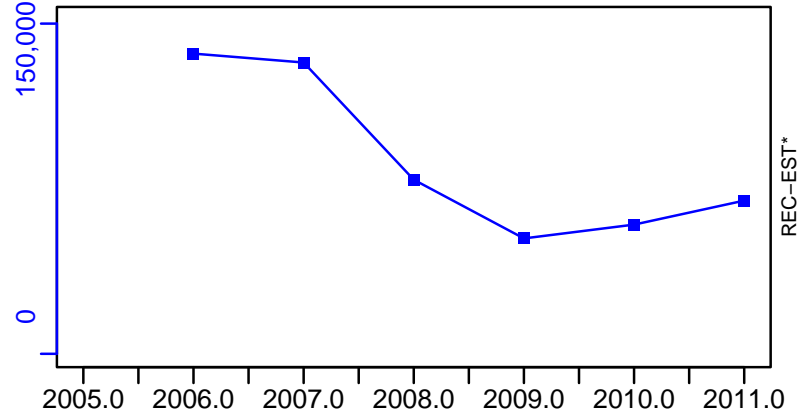
F-1/yr (2005-2011-OSIO)



ER\*

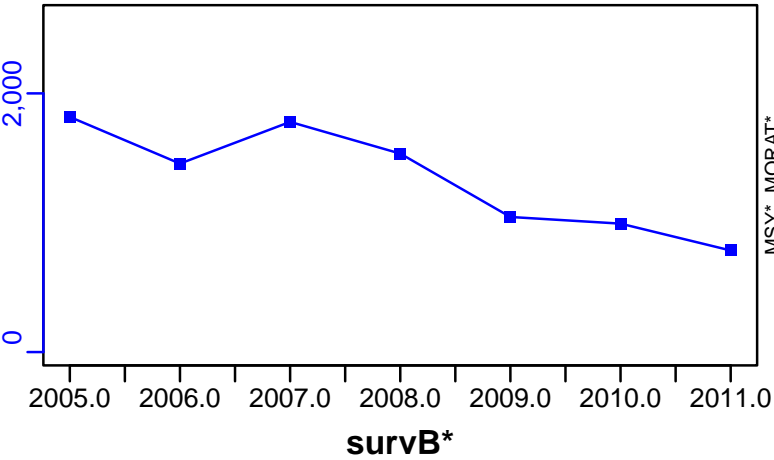


R-E00 (2005-2011-OSIO)



Red mullet Malta Island and South of Sicily (GSA 15, 16) [RMULLMEDGSA15-16]

TC-MT, TL\*, RecC\* (2005-2011-OSIO)



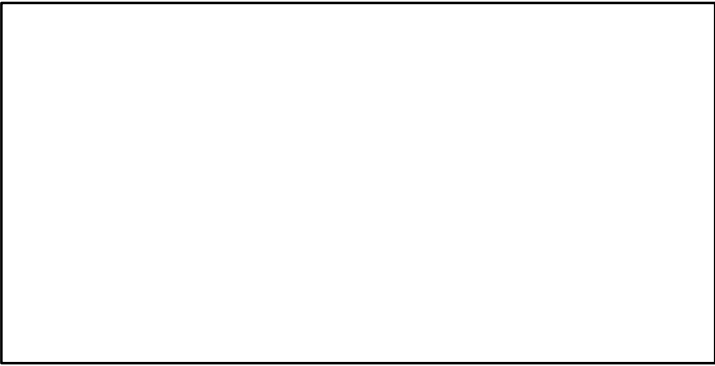
TAC\*, Cpair\*, Cadv\*



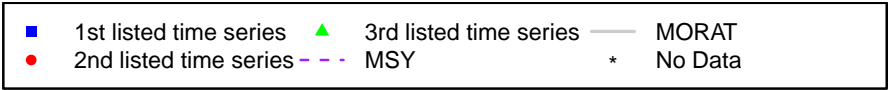
CPUE\*



EFFORT\*



CdivMSY\*



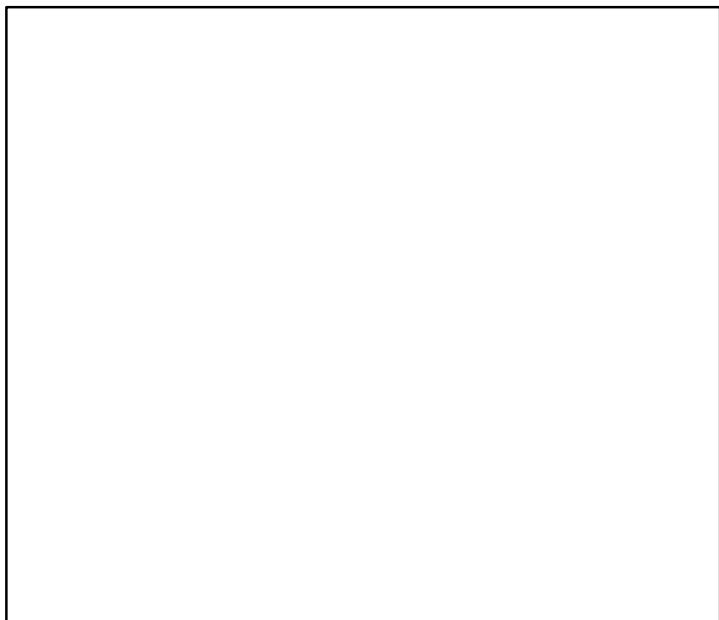
## Red mullet Adriatic Sea (GSA 17,18) [RMULLMEDGSA17-18]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA17-18-2006-2019-MEDIMP2021-2
<b>Area</b>	Adriatic Sea (GSA 17,18)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2019, 2014

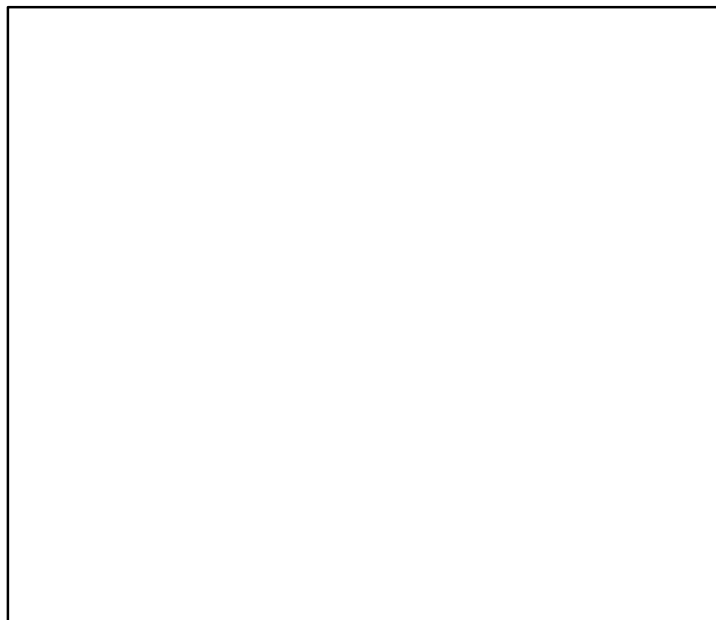
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2019	0.34
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</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	2019	7587	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	955,114,012	-	-
<b>F</b>	F-1/yr	2019	0.687	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2019	4632		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	2.02		
<b>ER/ERmgt</b>	-	-	-		

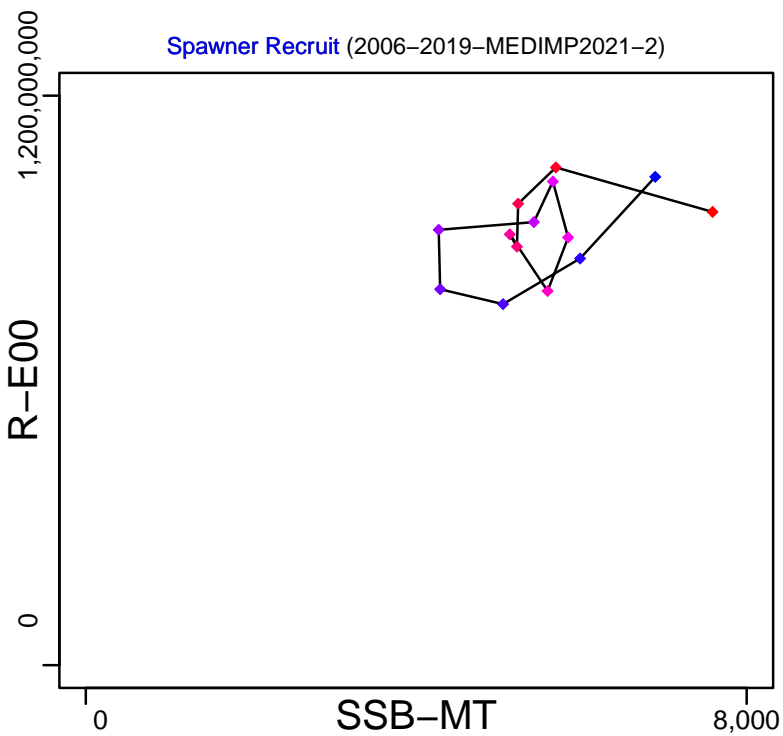
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit** (2006–2019–MEDIMP2021–2)



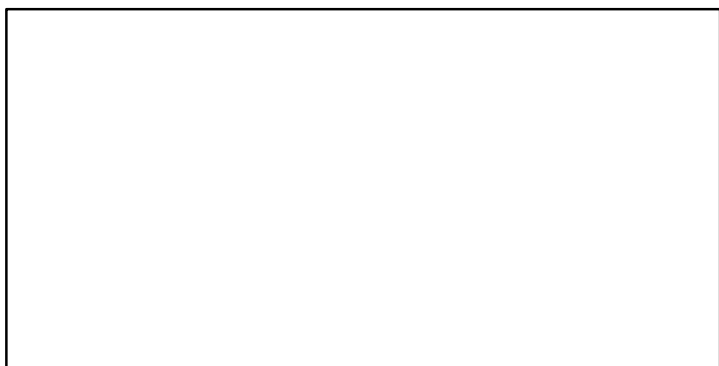
**Production\***



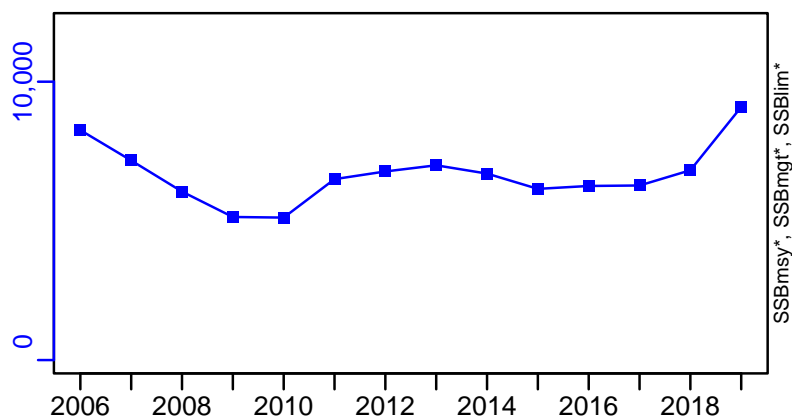
◆ Start Year ◆ End Year \* No Data

# Red mullet Adriatic Sea (GSA 17,18) [RMULLMEDGSA17-18]

TB\*



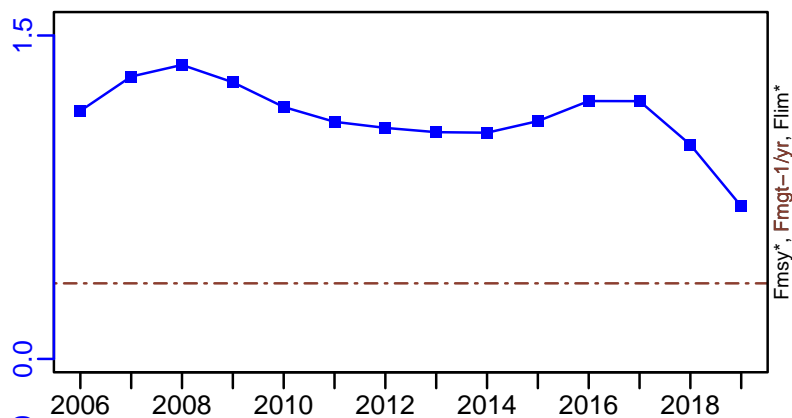
SSB-MT (2006-2019-MEDIMP2021-2)



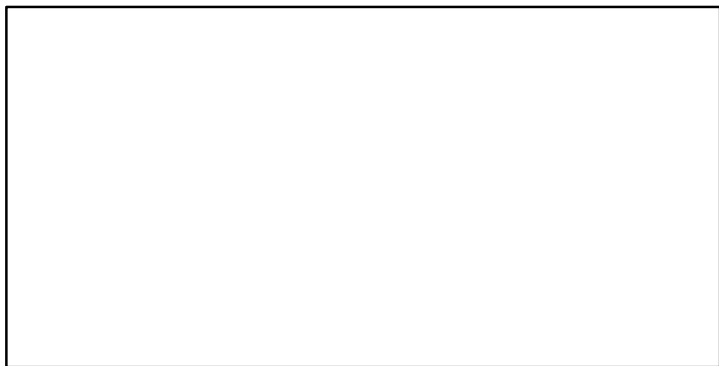
TN \*



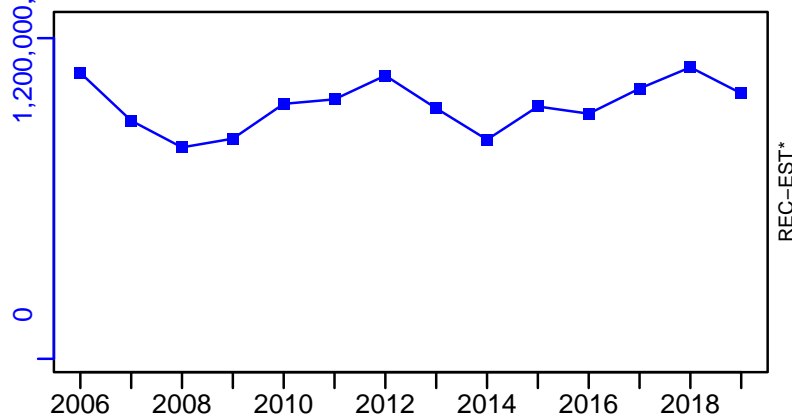
F-1/yr (2006-2019-MEDIMP2021-2)



ER\*

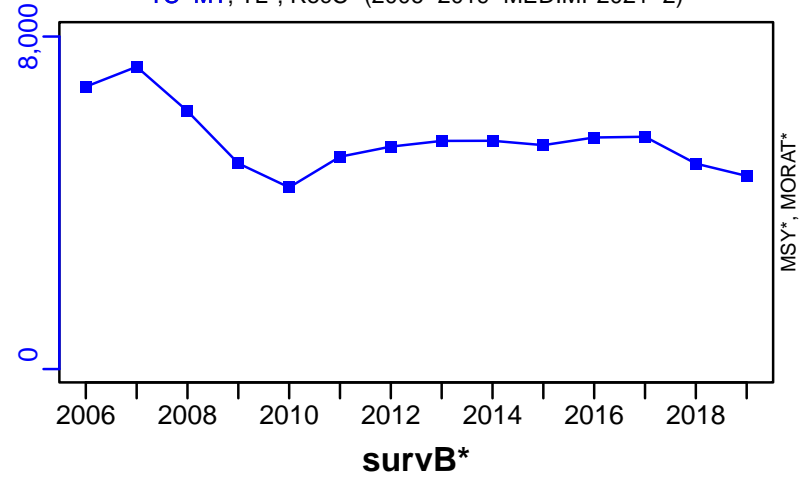


R-E00 (2006-2019-MEDIMP2021-2)

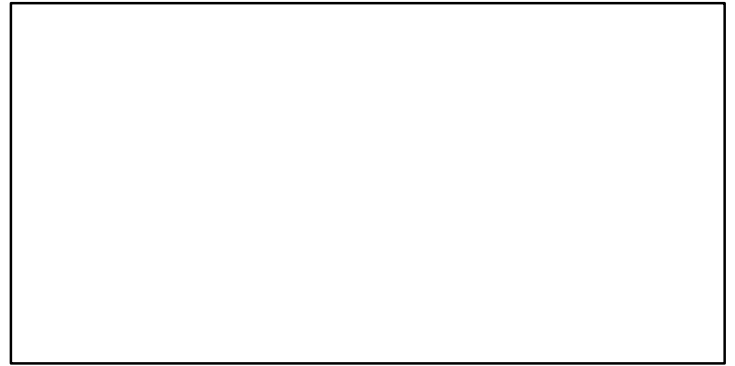


# Red mullet Adriatic Sea (GSA 17,18) [RMULLMEDGSA17-18]

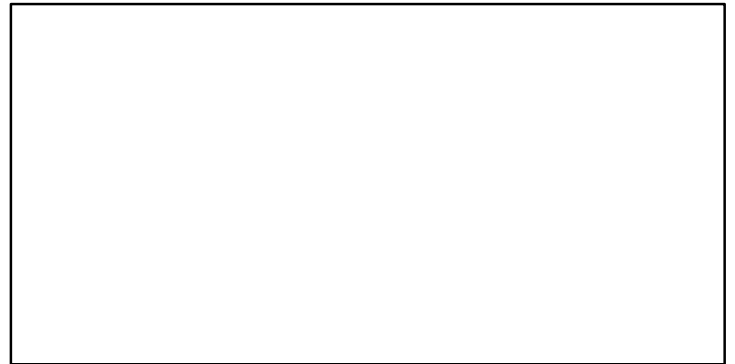
TC-MT, TL\*, RecC\* (2006-2019-MEDIMP2021-2)



TAC\*, Cpair\*, Cadv\*



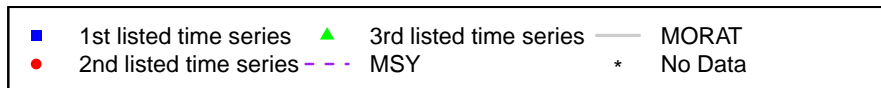
CPUE\*



EFFORT\*



CdivMSY\*





## Red mullet Western Ionian Sea [RMULLMEDGSA19]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA19-2006-2016-MEDIMP2021-2
<b>Area</b>	Western Ionian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2016	0.36
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	641	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	27,230,000	-	-
<b>F</b>	F-1/yr	2016	0.56	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2016	278		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.556		
<b>ER/ERmgt</b>	-	-	-		

Red mullet Western Ionian Sea [RMULLMEDGSA19]

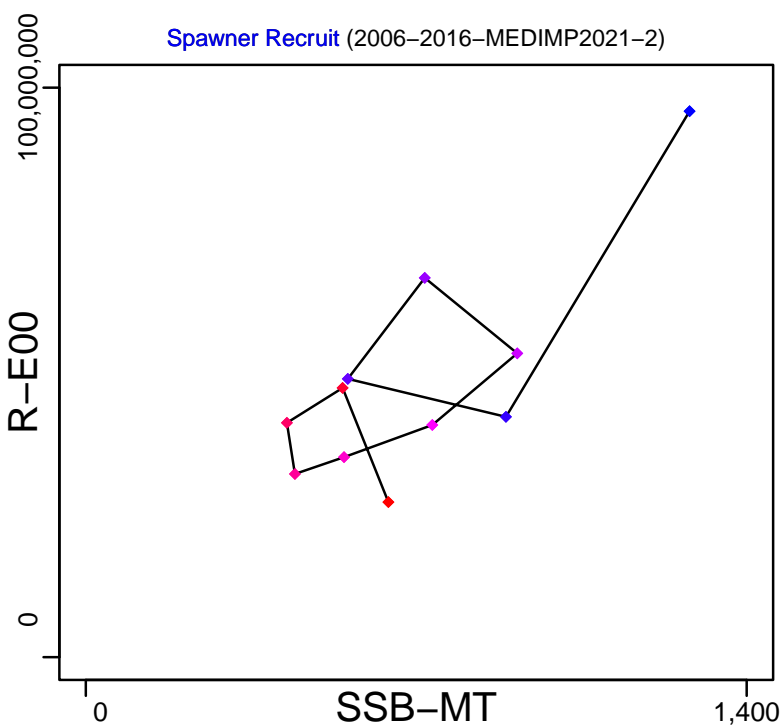
Kobe MSY\*



Kobe MGT\*



Spawner Recruit (2006–2016–MEDIMP2021–2)



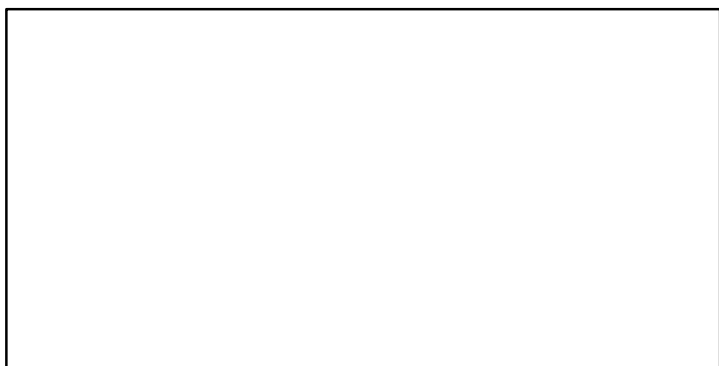
Production\*



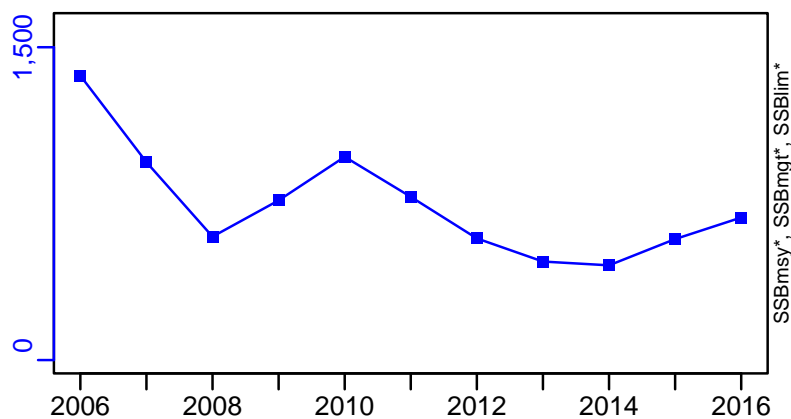
◆ Start Year ◆ End Year \* No Data

# Red mullet Western Ionian Sea [RMULLMEDGSA19]

TB\*



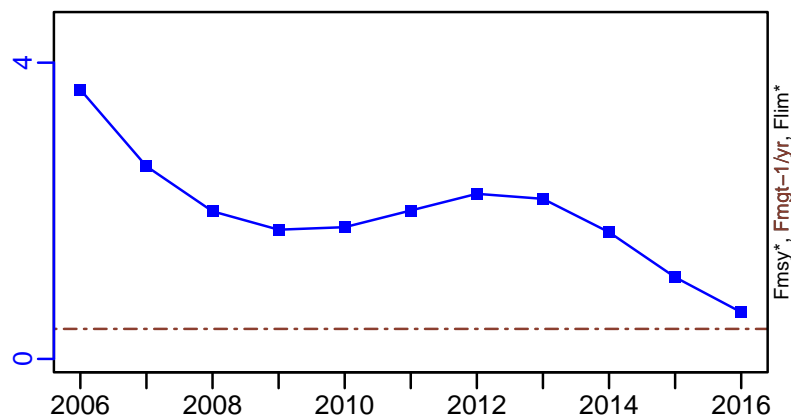
SSB-MT (2006-2016-MEDIMP2021-2)



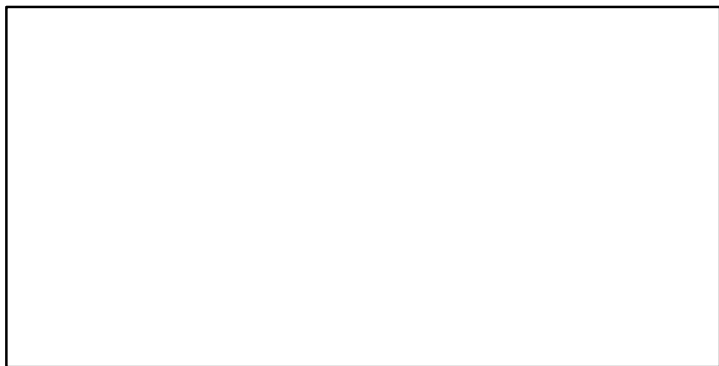
TN \*



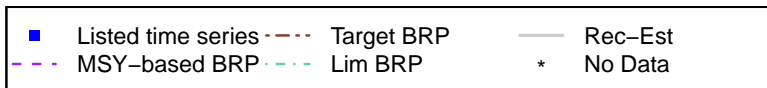
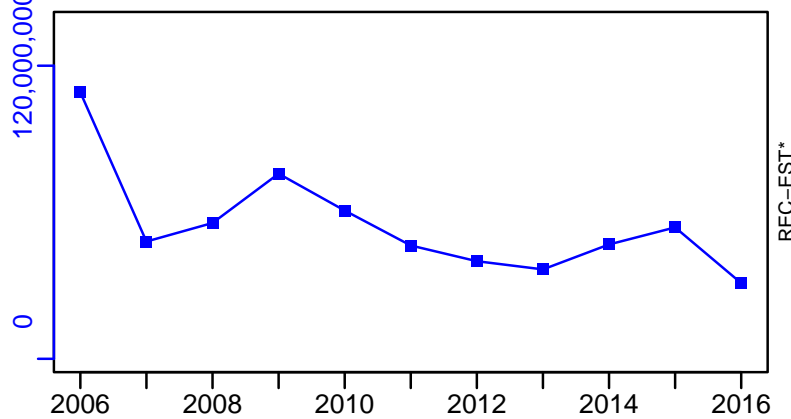
F-1/yr (2006-2016-MEDIMP2021-2)



ER\*

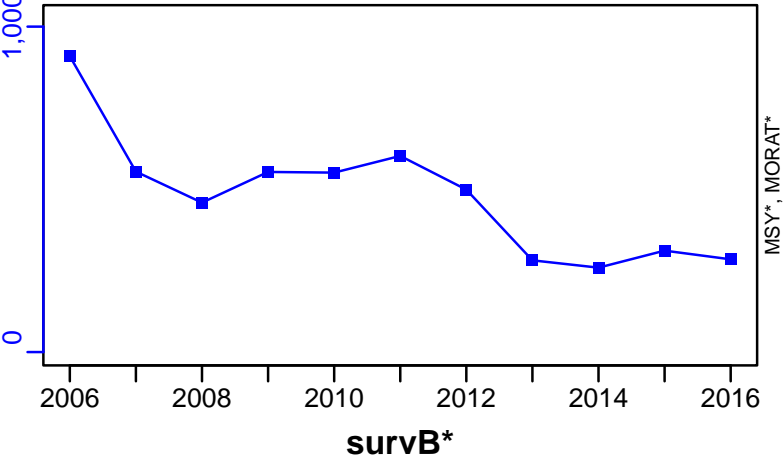


R-E00 (2006-2016-MEDIMP2021-2)



Red mullet Western Ionian Sea [RMULLMEDGSA19]

TC-MT, TL\*, RecC\* (2006–2016–MEDIMP2021–2)



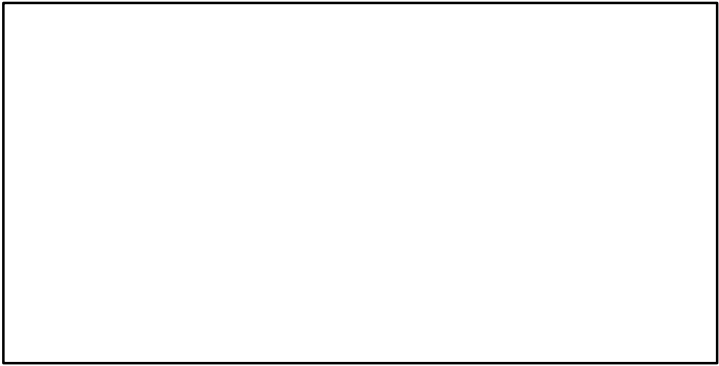
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*

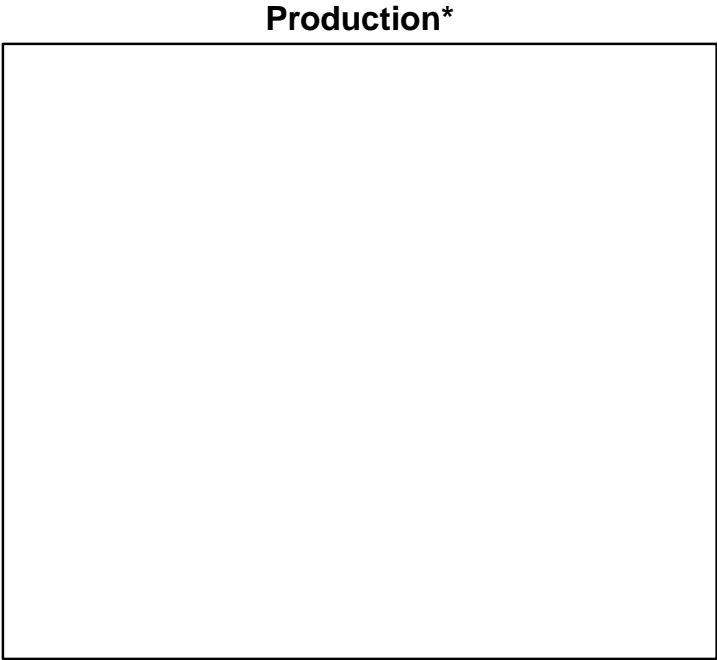
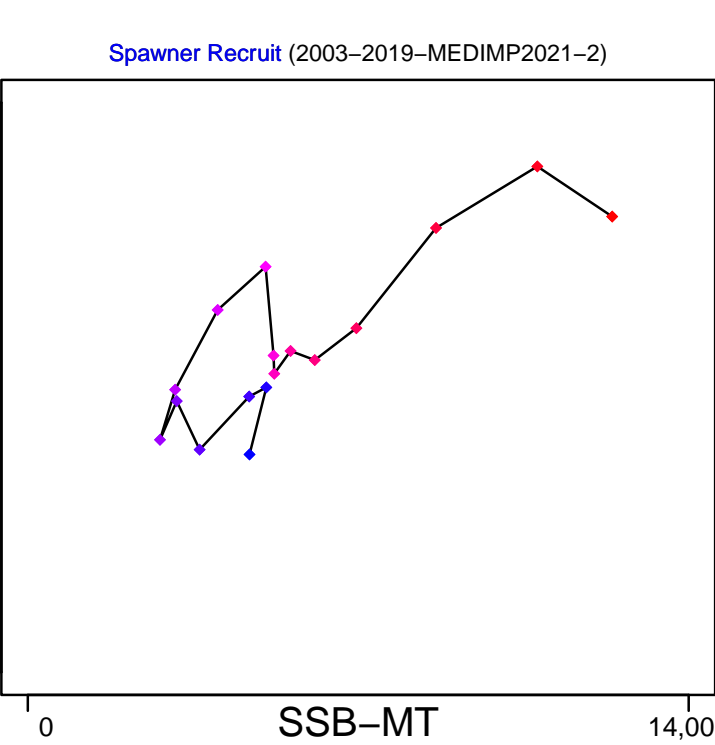
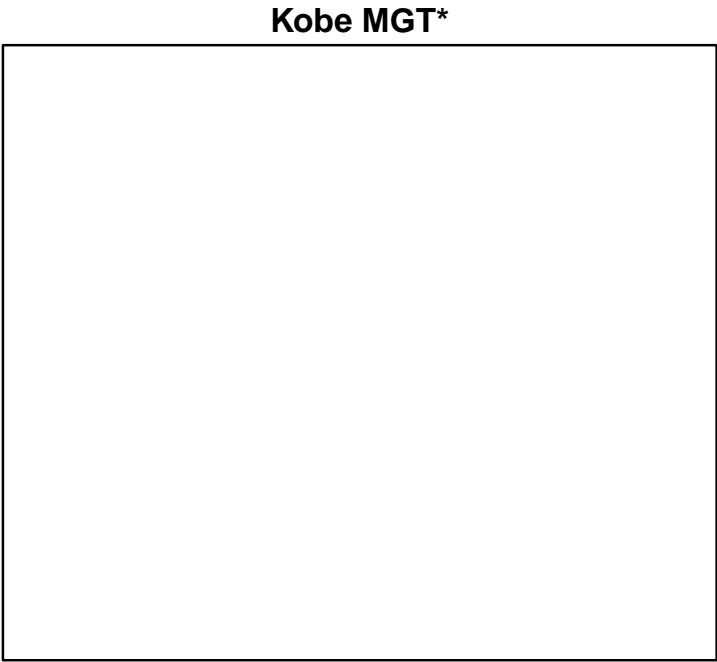
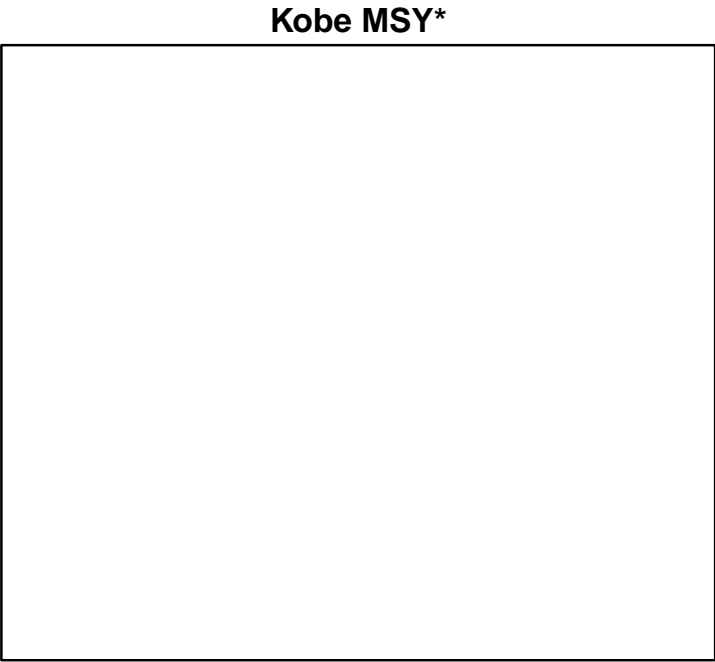


## Red mullet Aegean Sea [RMULLMEDGSA22]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA22-2003-2019-MEDIMP2021-2
<b>Area</b>	Aegean Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2019	0.501
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	2019	12,379	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	$2 \times 10^{11}$	-	-
<b>F</b>	F-1/yr	2019	0.15	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2019	1804		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	0.299		
<b>ER/ERmgt</b>	-	-	-		



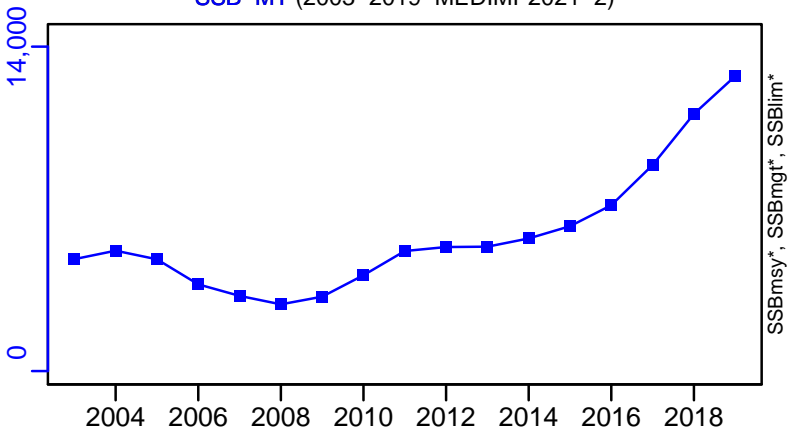
◆ Start Year ◆ End Year \* No Data

Red mullet Aegean Sea [RMULLMEDGSA22]

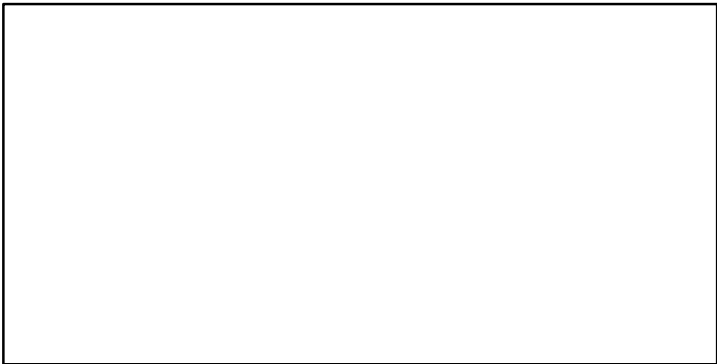
TB\*



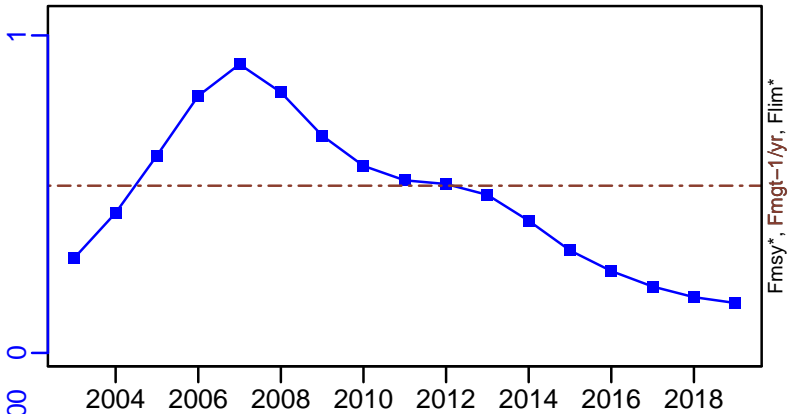
SSB-MT (2003-2019-MEDIMP2021-2)



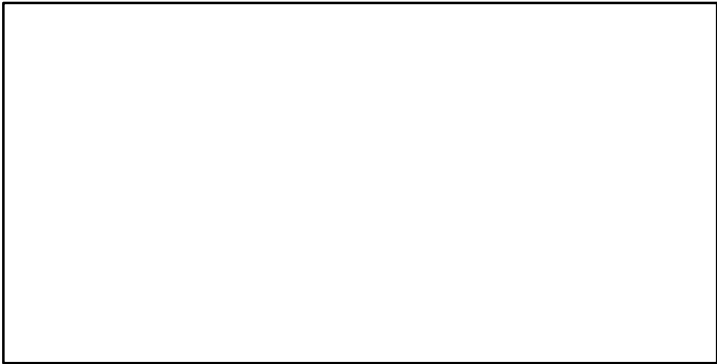
TN \*



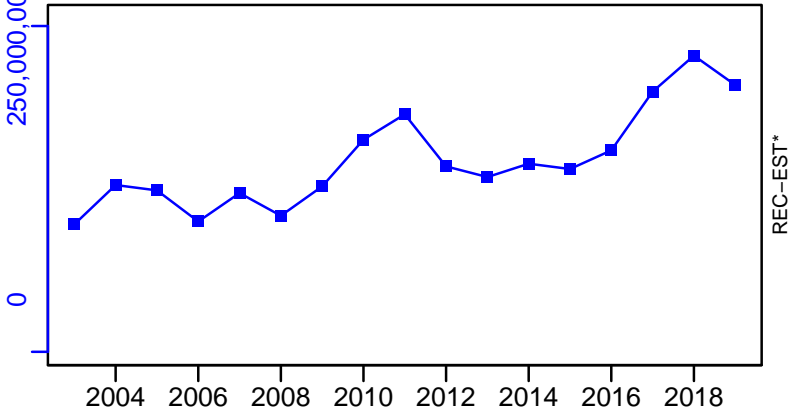
F-1/yr (2003-2019-MEDIMP2021-2)



ER\*

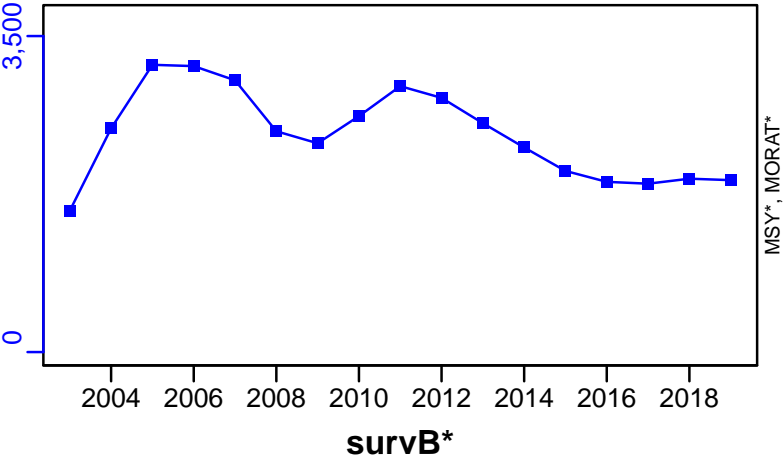


R-E00 (2003-2019-MEDIMP2021-2)



Red mullet Aegean Sea [RMULLMEDGSA22]

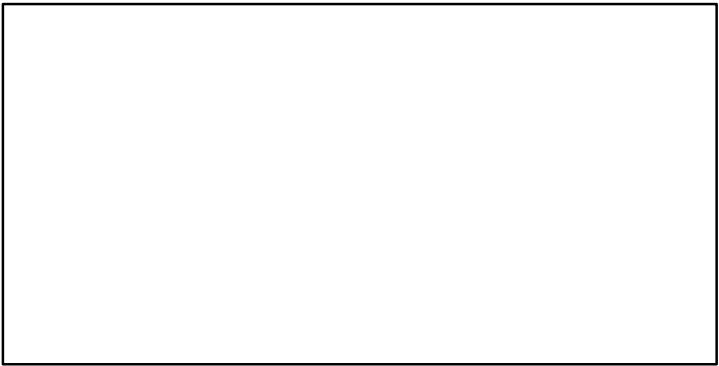
TC-MT, TL\*, RecC\* (2003-2019-MEDIMP2021-2)



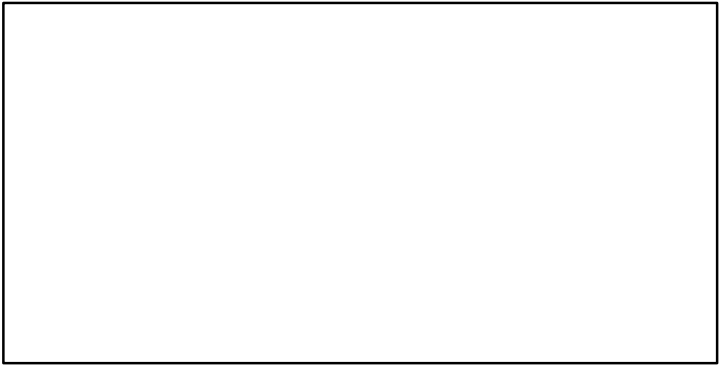
TAC\*, Cpair\*, Cadv\*



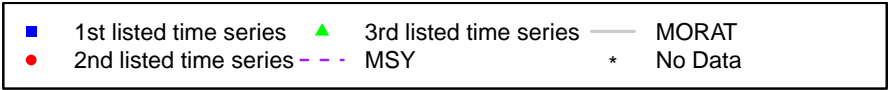
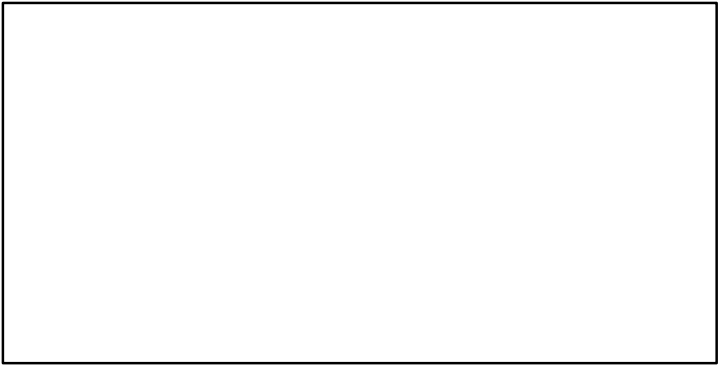
CPUE\*



EFFORT\*



CdivMSY\*





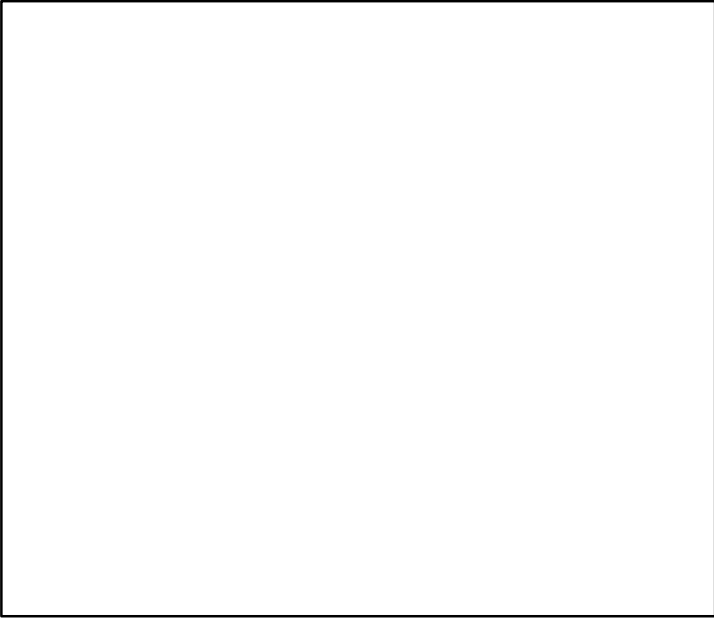
## Red mullet Cyprus Island [RMULLMEDGSA25]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA25-2005-2008-OSIO
<b>Area</b>	Cyprus Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2008

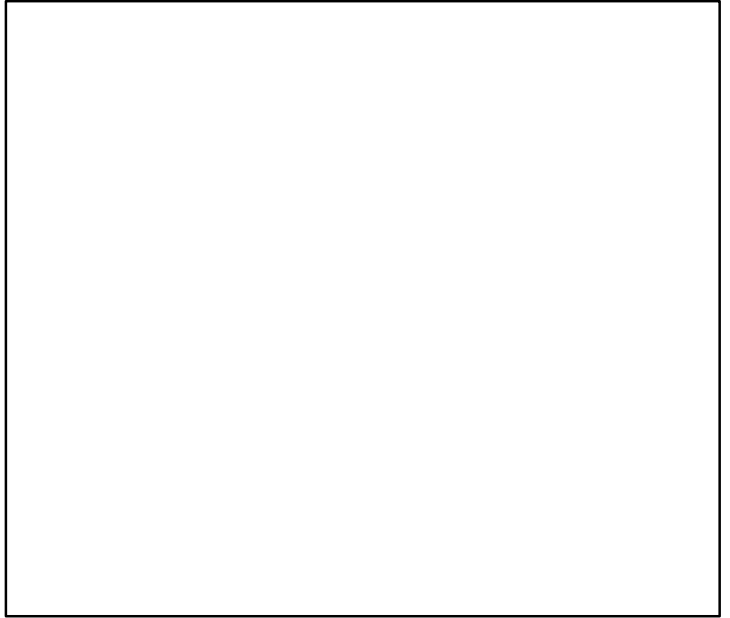
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2008	0.22
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</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	2008	58	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	1,480,000	-	-
<b>F</b>	F-1/yr	2008	0.84	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2008	33		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2008	3.818		
<b>ER/ERmgt</b>	-	-	-		

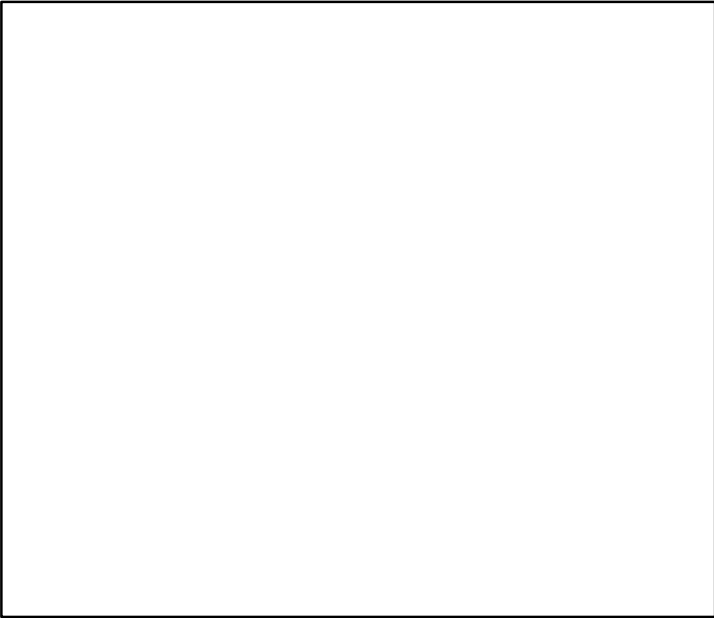
**Kobe MSY\***



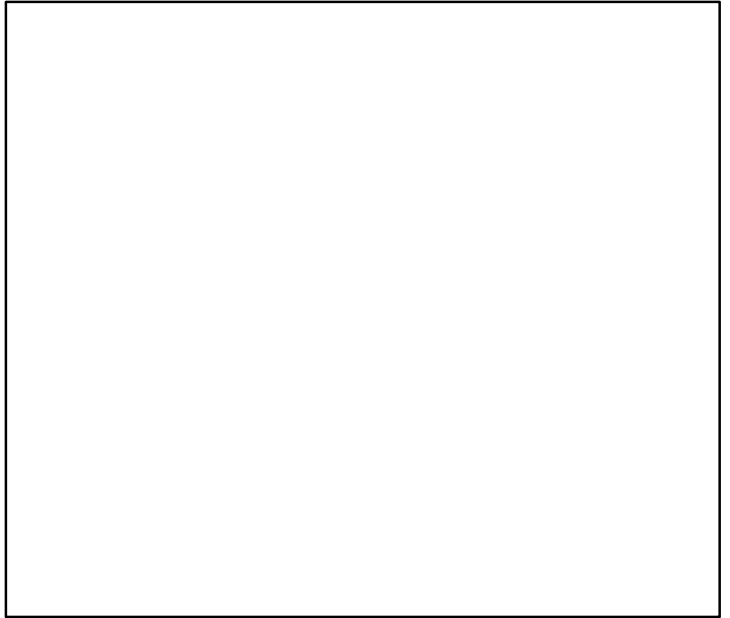
**Kobe MGT\***



**Spawner Recruit\***



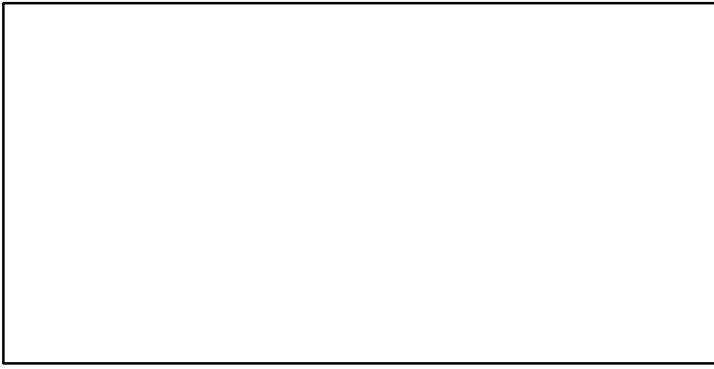
**Production\***



◆ Start Year   ◆ End Year   \* No Data

# Red mullet Cyprus Island [RMULLMEDGSA25]

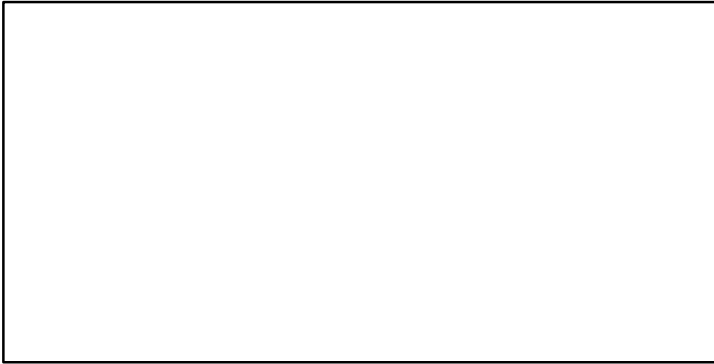
TB\*



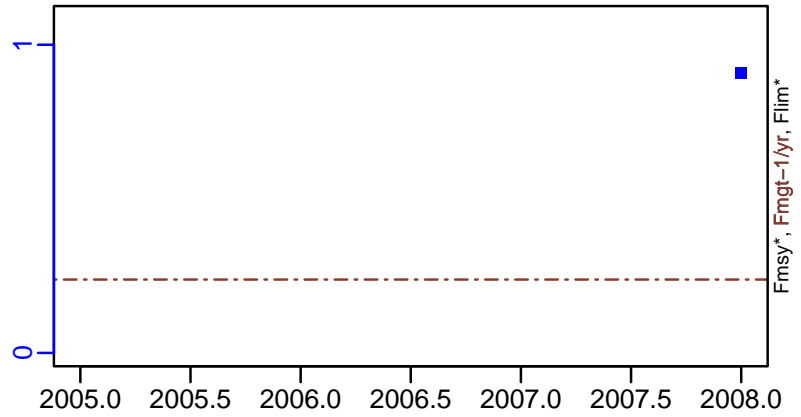
SSB-MT (2005–2008–OSIO)



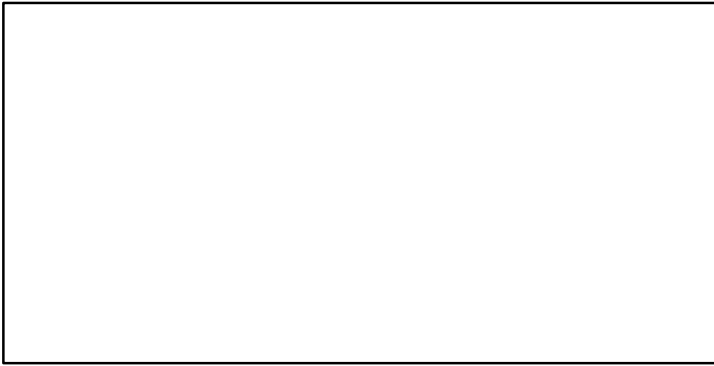
TN \*



F-1/yr (2005–2008–OSIO)



ER\*

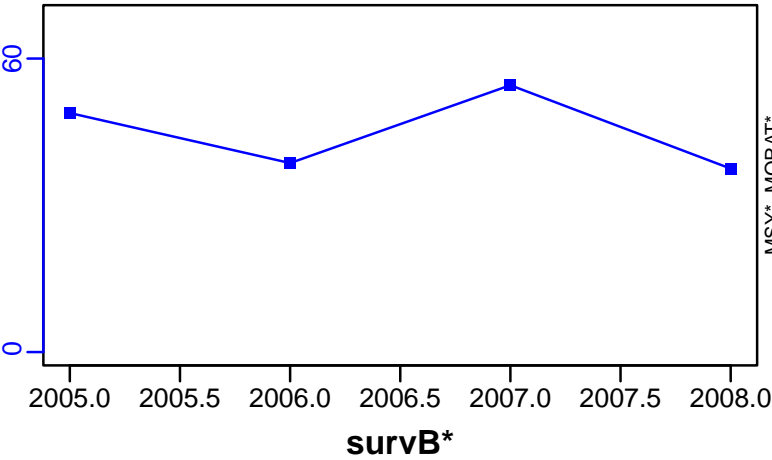


R-E00 (2005–2008–OSIO)



Red mullet Cyprus Island [RMULLMEDGSA25]

TC-MT, TL\*, RecC\* (2005-2008-OSIO)



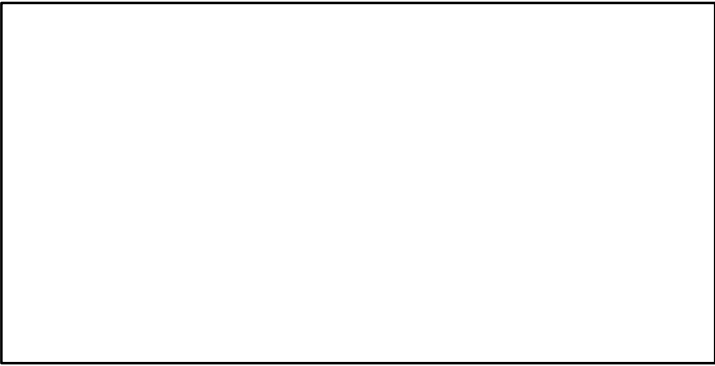
TAC\*, Cpair\*, Cadv\*



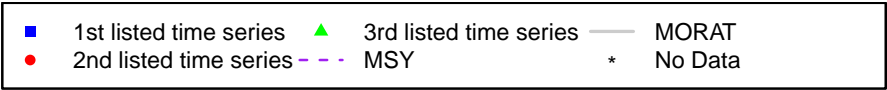
CPUE\*



EFFORT\*



CdivMSY\*



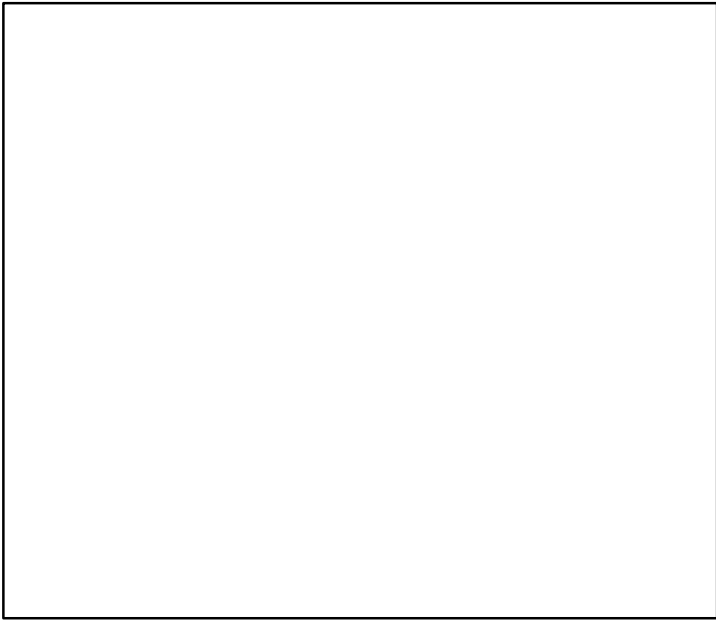
## Red mullet Black Sea [RMULLMEDGSA29]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	SGSABS-RMULLMEDGSA29-1990-2021-HIVELY
<b>Area</b>	Black Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Subregional Group on Stock Assessment for the Black Sea
<b>Asmts in RAM</b>	2021, 2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2021	0.7
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2021	0.7
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	2021	6933	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	2,822,999,790	-	0
<b>F</b>	F-1/yr	2021	0.542	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2016	3617		
<b>TL</b>	TL-MT	2021	3151		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2021	0.775		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	0.775		
<b>ER/ERmgt</b>	-	-	-		

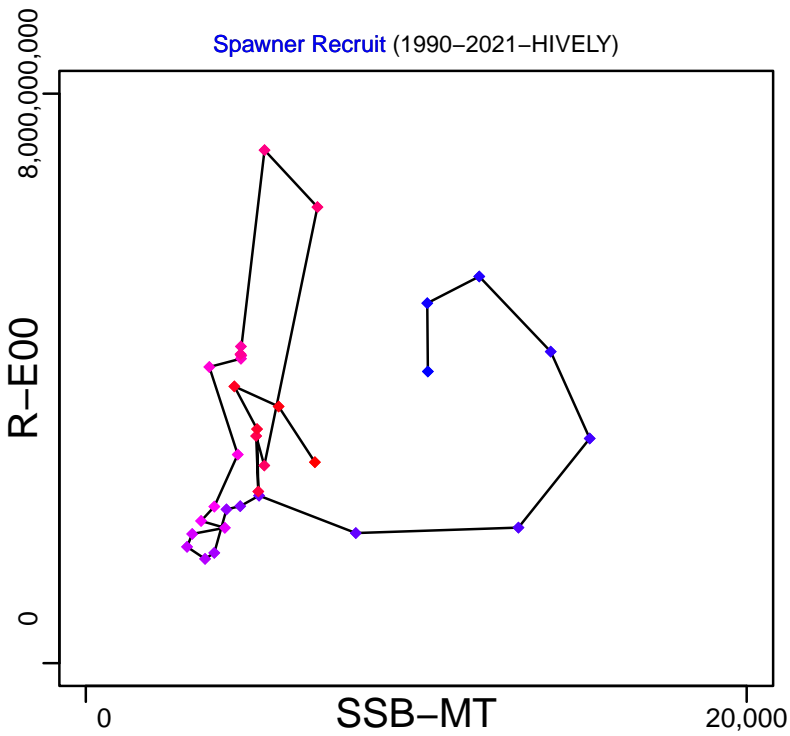
Kobe MSY\*



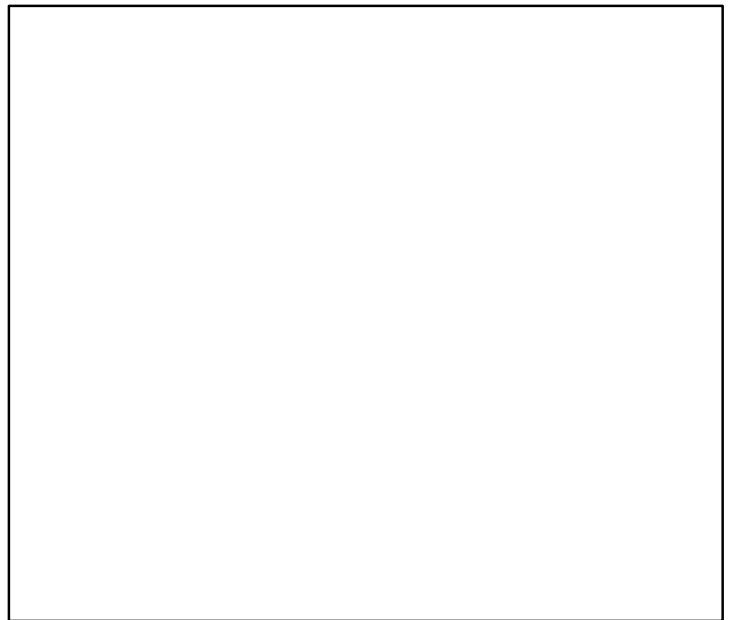
Kobe MGT\*



Spawner Recruit (1990–2021–HIVELY)



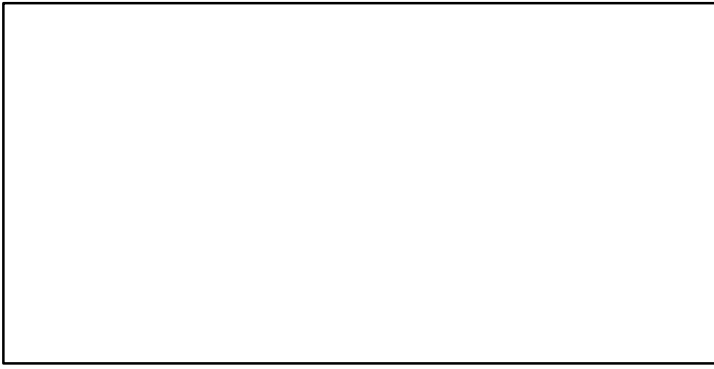
Production\*



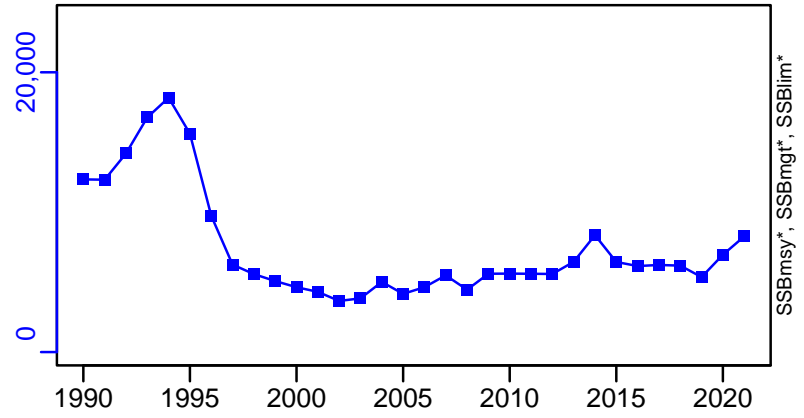
◆ Start Year ◆ End Year \* No Data

# Red mullet Black Sea [RMULLMEDGSA29]

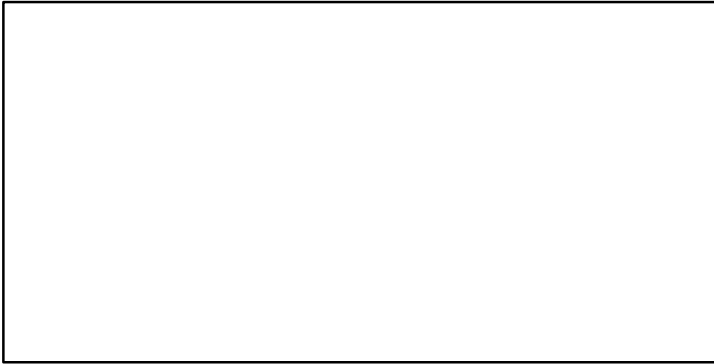
TB\*



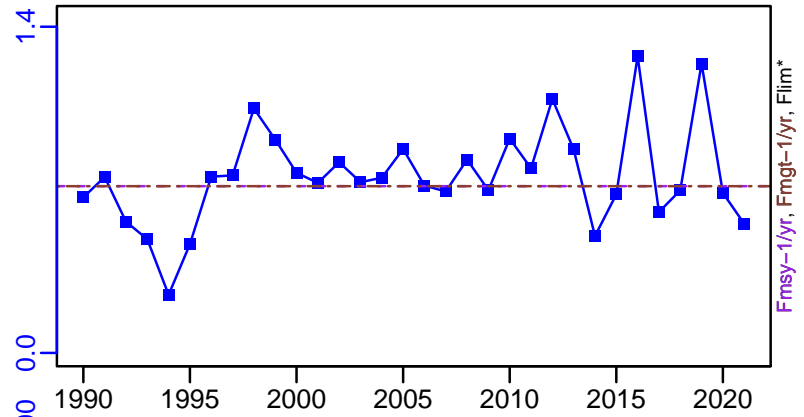
SSB-MT (1990–2021–HIVELY)



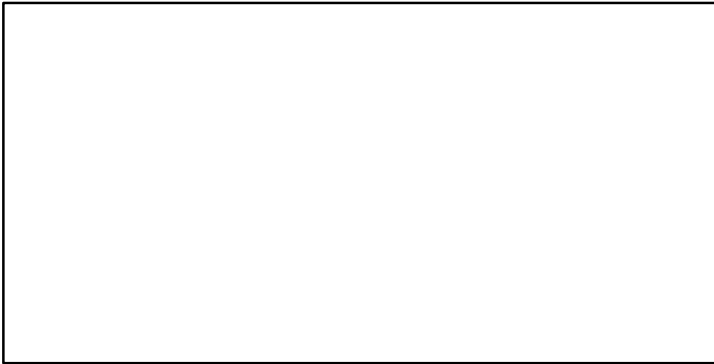
TN \*



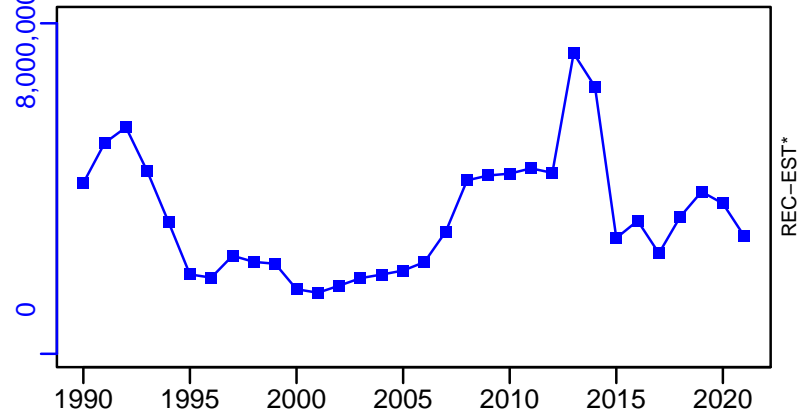
F-1/yr (1990–2021–HIVELY)



ER\*



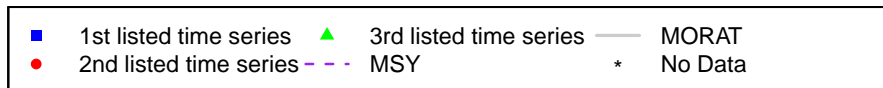
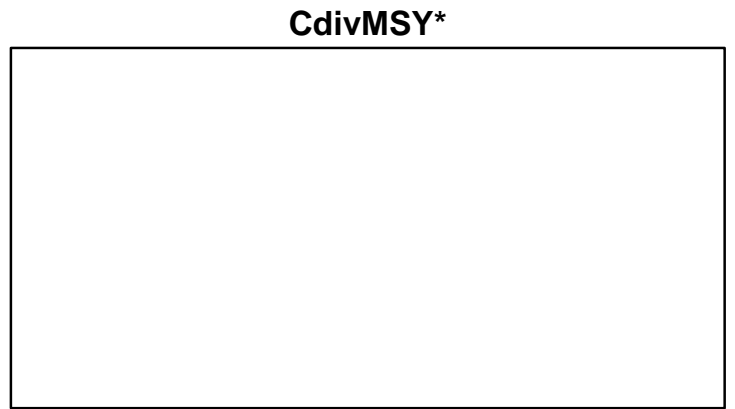
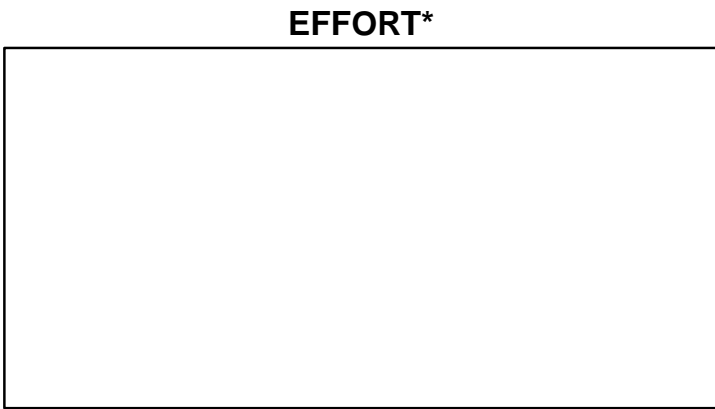
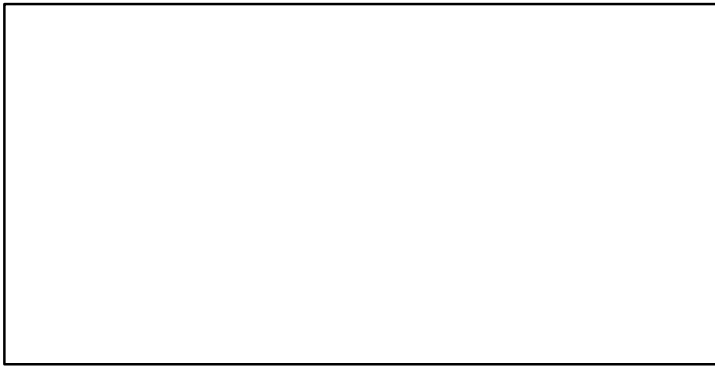
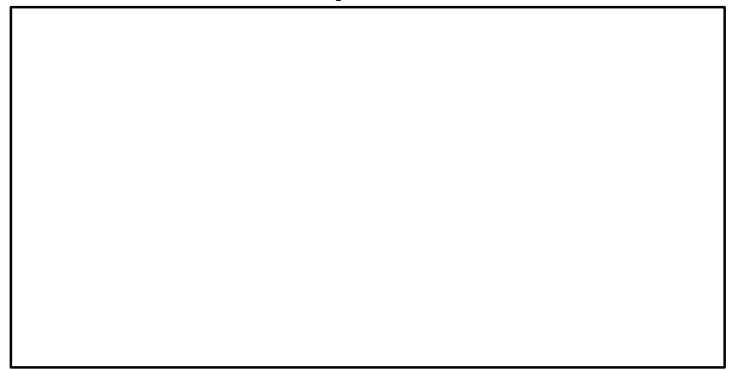
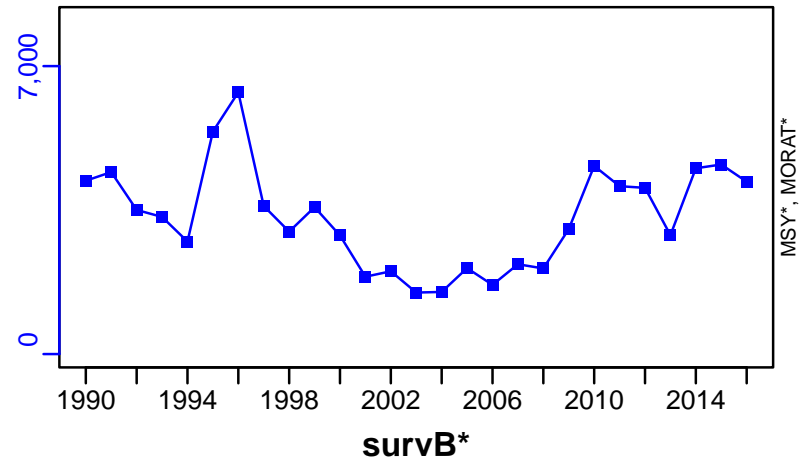
R-E00 (1990–2021–HIVELY)



# Red mullet Black Sea [RMULLMEDGSA29]

TC-MT, TL\*, RecC\* (1990-2016-MEDIMP2021-2)

TAC\*, Cpair\*, Cadv\*





## Red mullet Balearic Island [RMULLMEDGSA5]

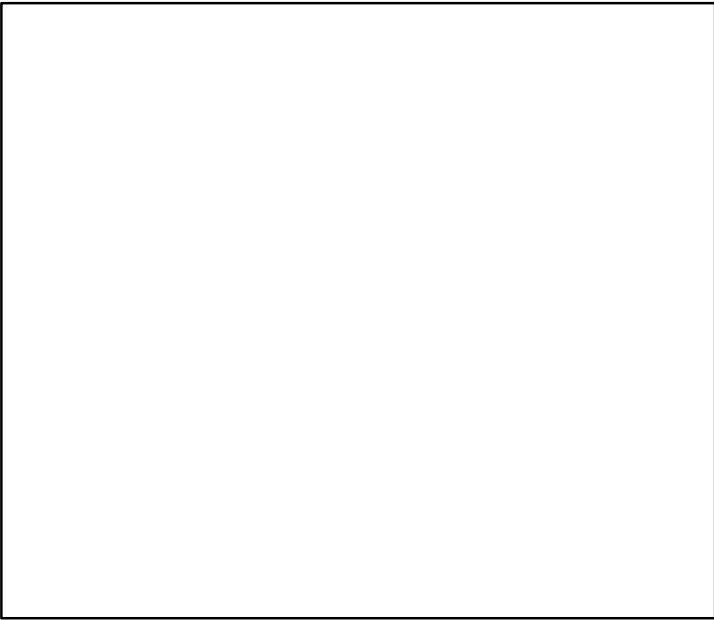
Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA5-2000-2012-OSIO
<b>Area</b>	Balearic Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2012	0.14
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

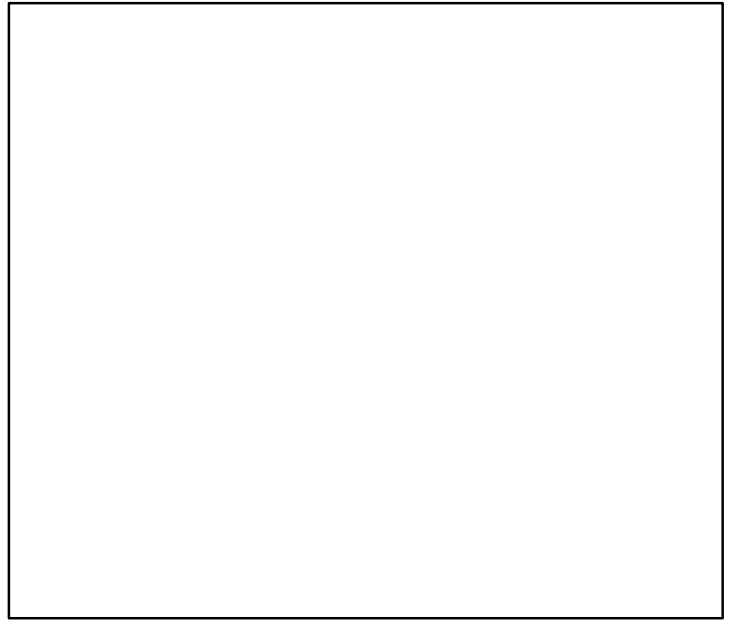
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2012	29	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	1,050,000	-	-
<b>F</b>	F-1/yr	2012	1.07	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2012	16		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	7.643		
<b>ER/ERmgt</b>	-	-	-		

Red mullet Balearic Island [RMULLMEDGSA5]

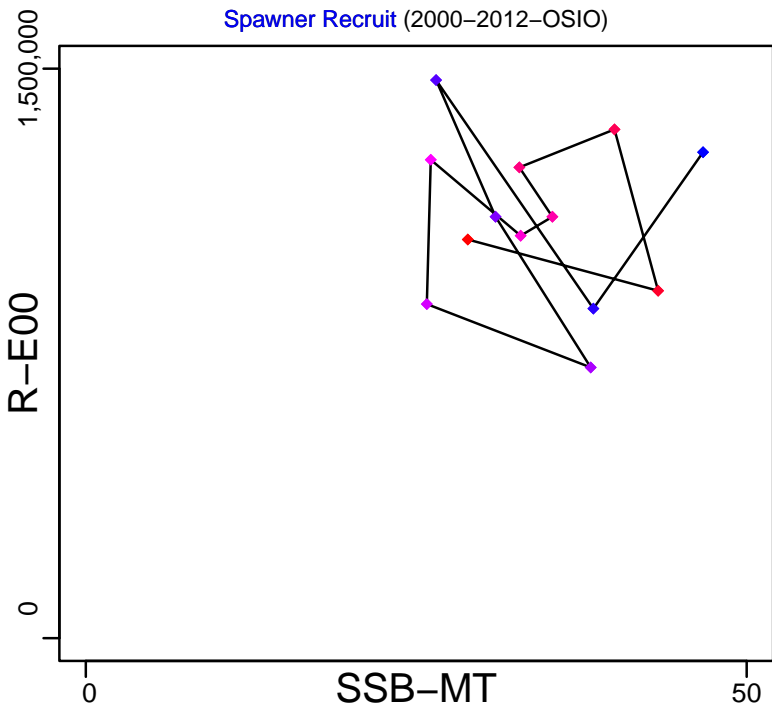
Kobe MSY\*



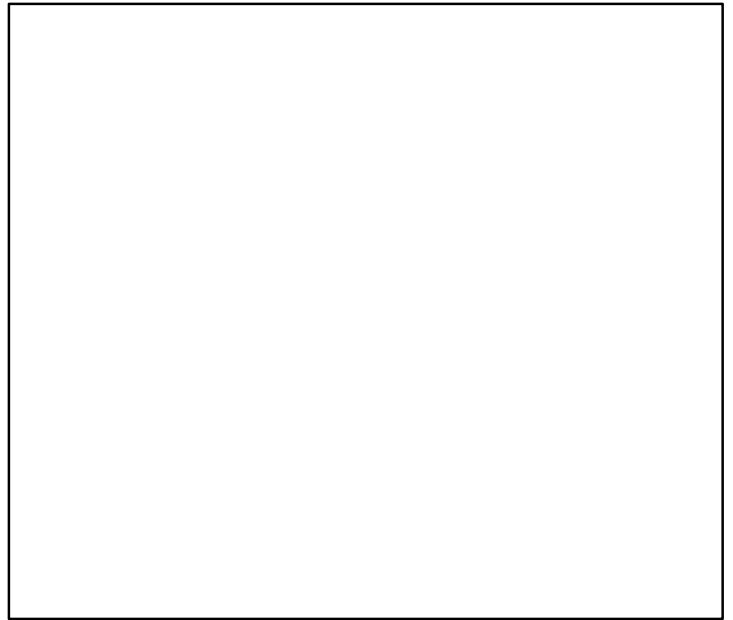
Kobe MGT\*



Spawner Recruit (2000–2012–OSIO)



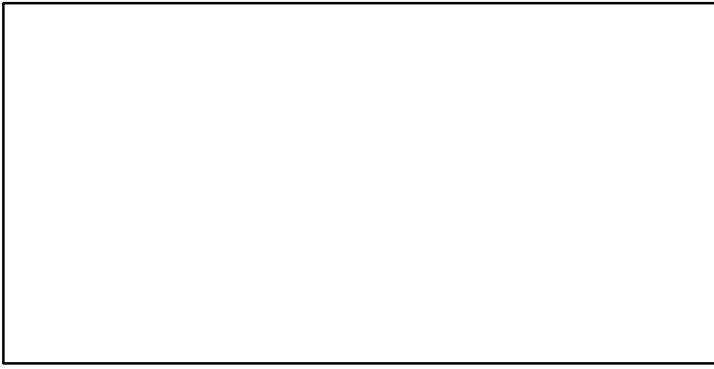
Production\*



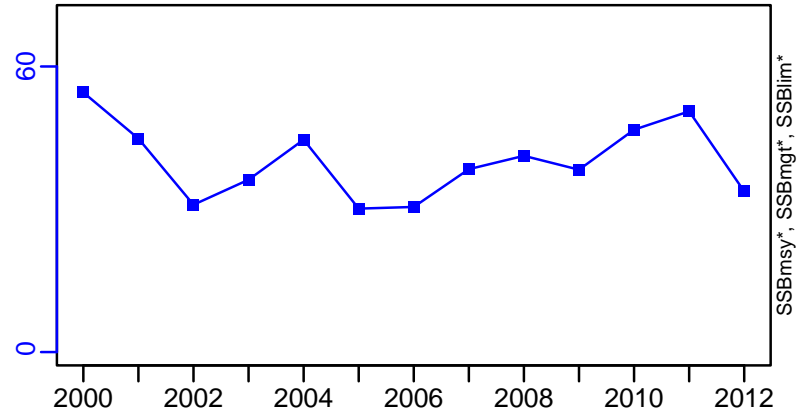
◆ Start Year ◆ End Year \* No Data

# Red mullet Balearic Island [RMULLMEDGSA5]

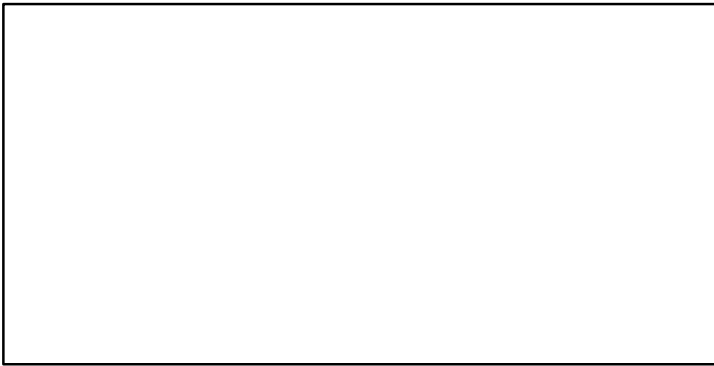
TB\*



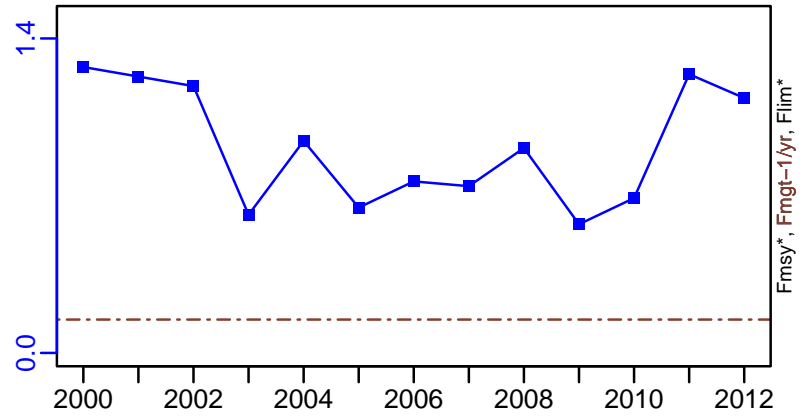
SSB-MT (2000–2012–OSIO)



TN \*



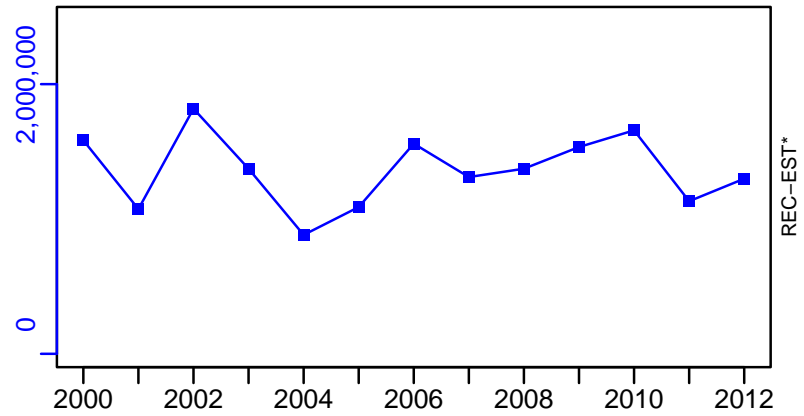
F-1/yr (2000–2012–OSIO)



ER\*



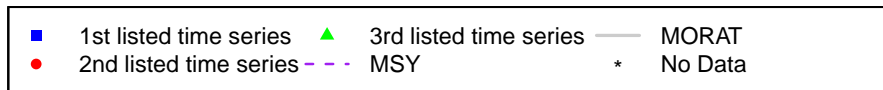
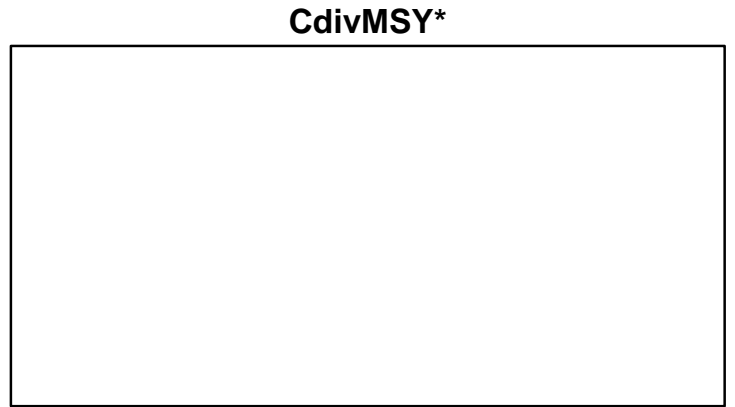
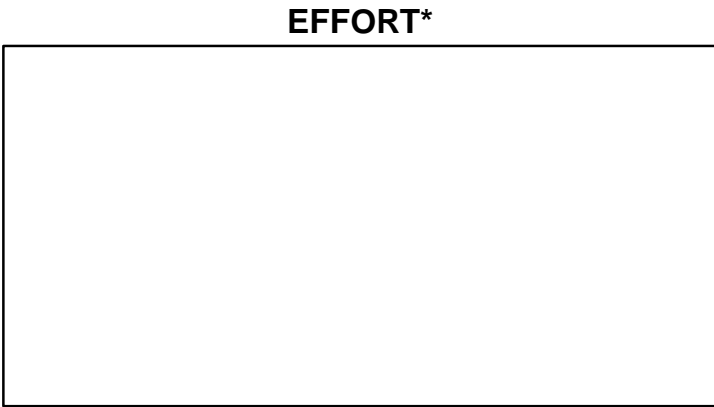
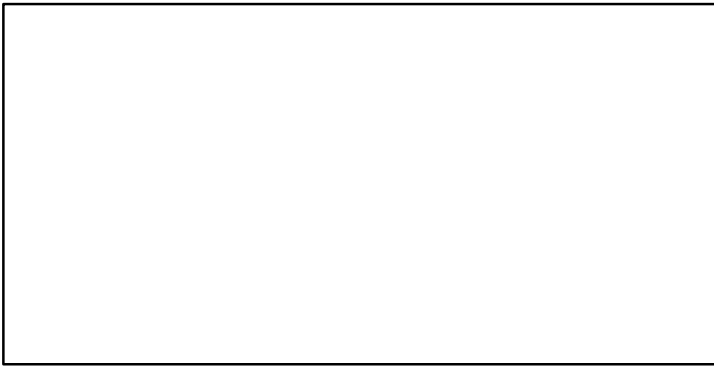
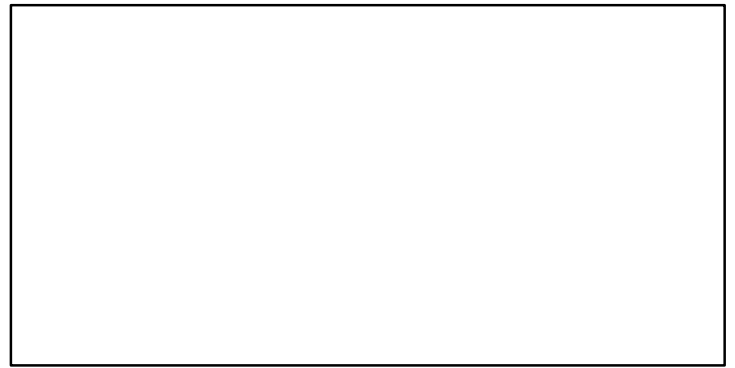
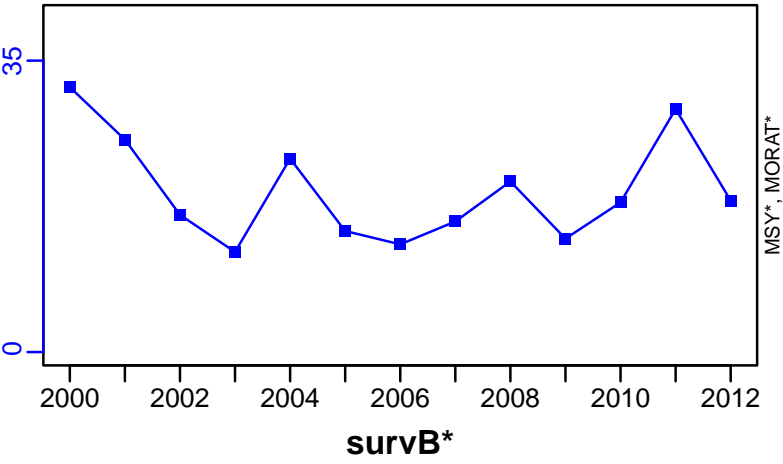
R-E00 (2000–2012–OSIO)



# Red mullet Balearic Island [RMULLMEDGSA5]

TC-MT, TL\*, RecC\* (2000-2012-OSIO)

TAC\*, Cpair\*, Cadv\*



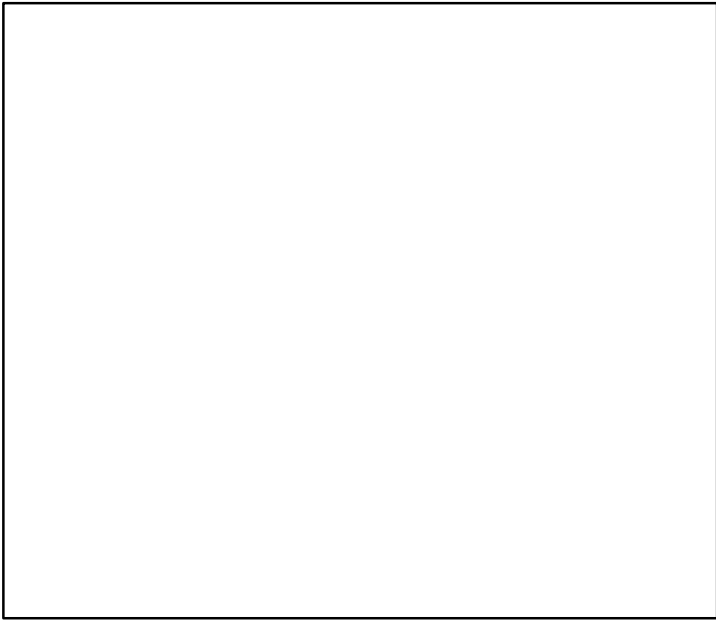
## Red mullet Northern Spain [RMULLMEDGSA6]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	WGSAD-RMULLMEDGSA6-2004-2022-HIVELY
<b>Area</b>	Northern Spain
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Working Group on Stock Assessment of Demersal Species
<b>Asmts in RAM</b>	2013, 2019, 2021, 2022

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2022	0.25
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	2022	2762	-	-
<b>SSB</b>	SSB-MT	2022	1015	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2022	40,910,000	-	0
<b>F</b>	F-1/yr	2022	1.349	-	1 to 3
<b>ER</b>	ER-calc-ratio	2022	0.445	-	-
<b>TC</b>	TC-MT	2019	1546		
<b>TL</b>	TL-MT	2022	1228		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2022	5.396		
<b>ER/ERmgt</b>	-	-	-		

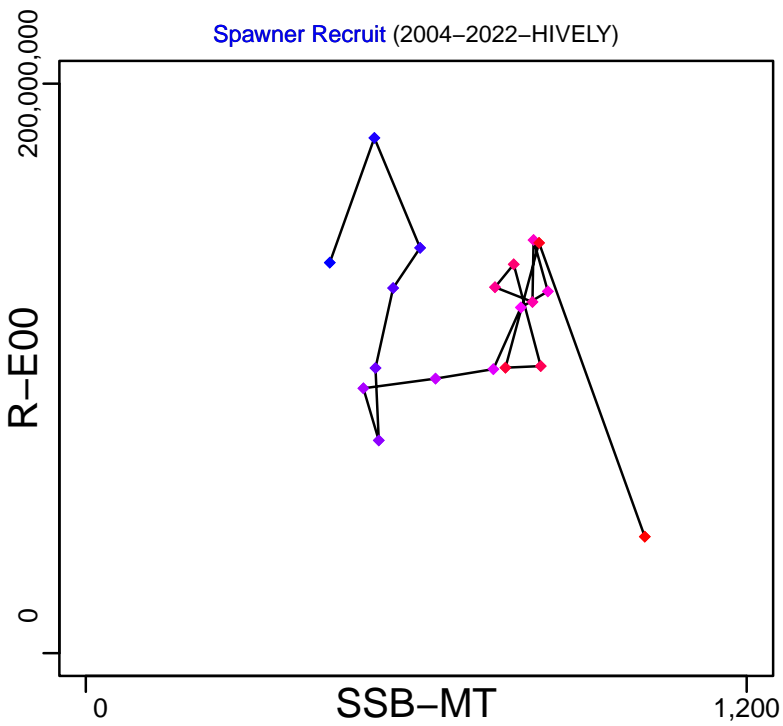
Kobe MSY\*



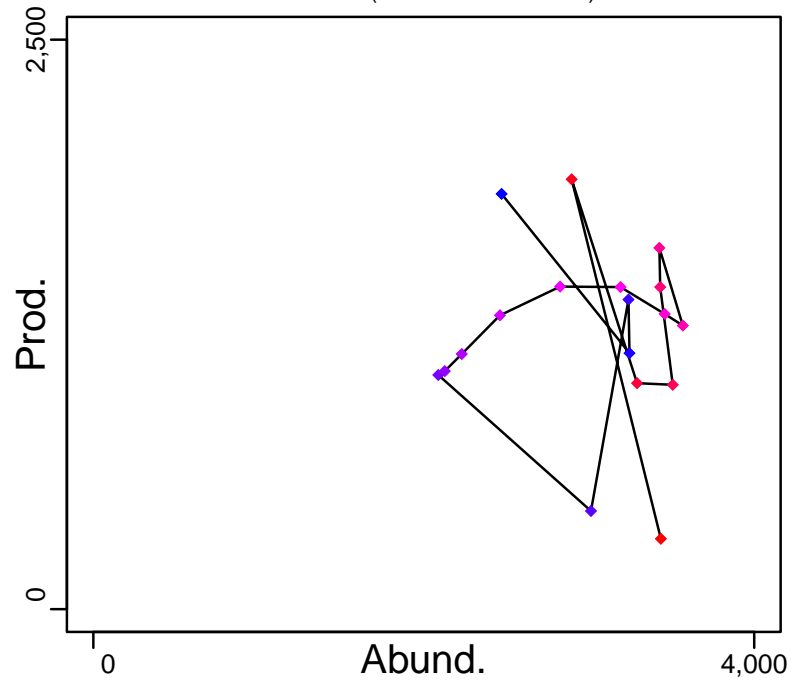
Kobe MGT\*



Spawner Recruit (2004–2022–HIVELY)



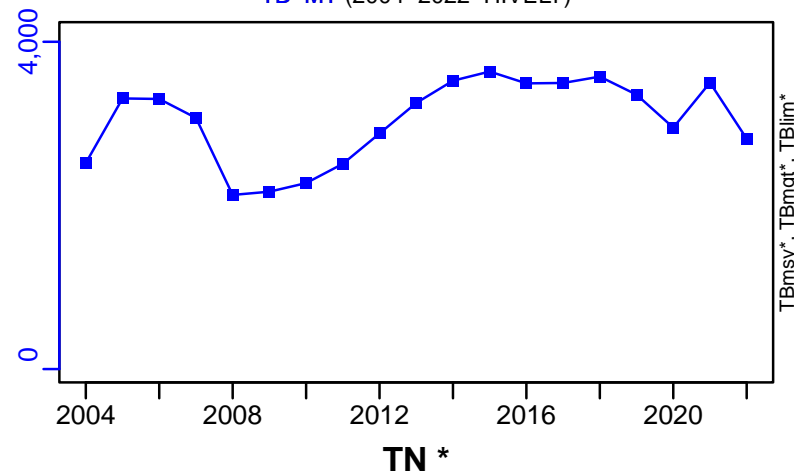
Production (2004–2022–HIVELY)



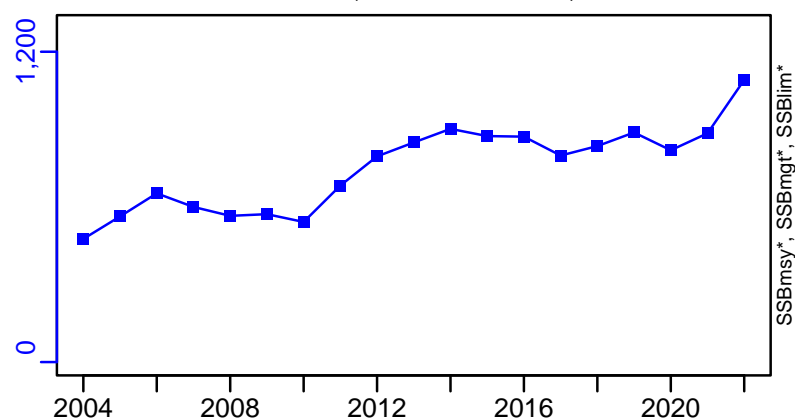
◆ Start Year ◆ End Year \* No Data

# Red mullet Northern Spain [RMULLMEDGSA6]

TB-MT (2004–2022–HIVELY)



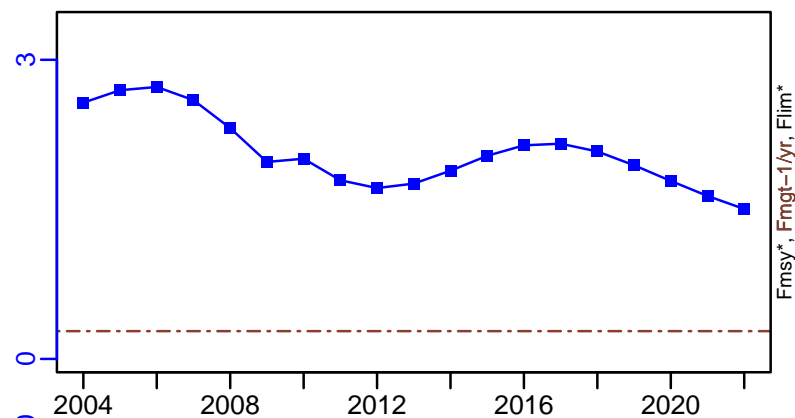
SSB-MT (2004–2022–HIVELY)



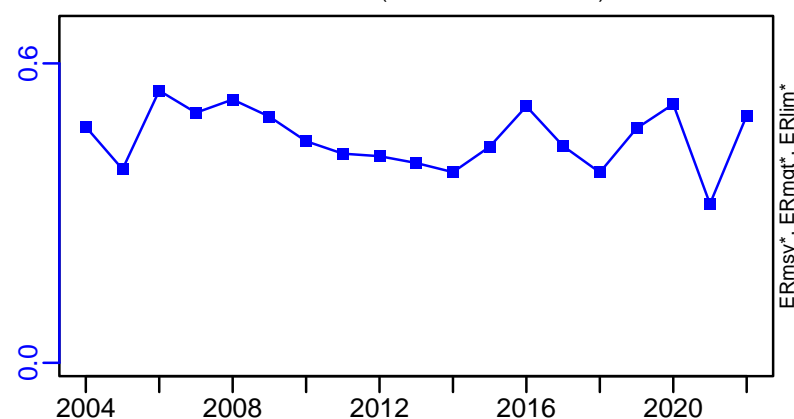
TN \*



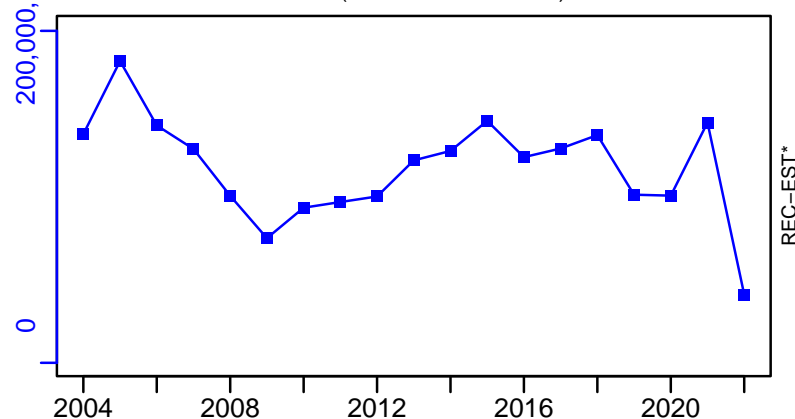
F-1/yr (2004–2022–HIVELY)



ER-calc-ratio (2004–2022–HIVELY)

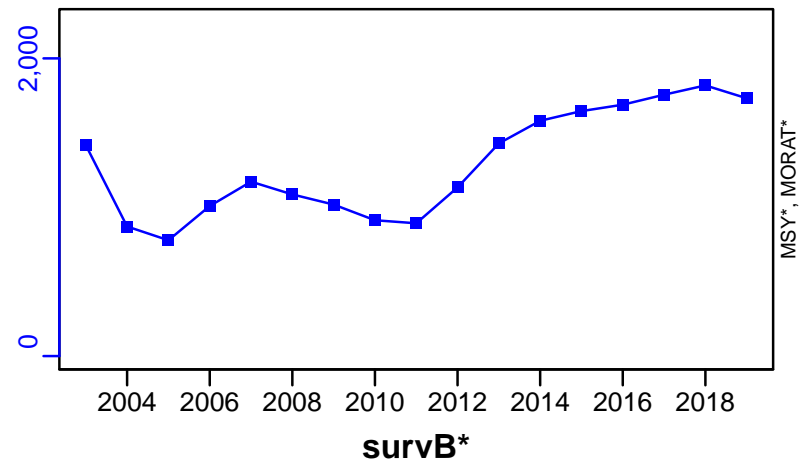


R-E00 (2004–2022–HIVELY)

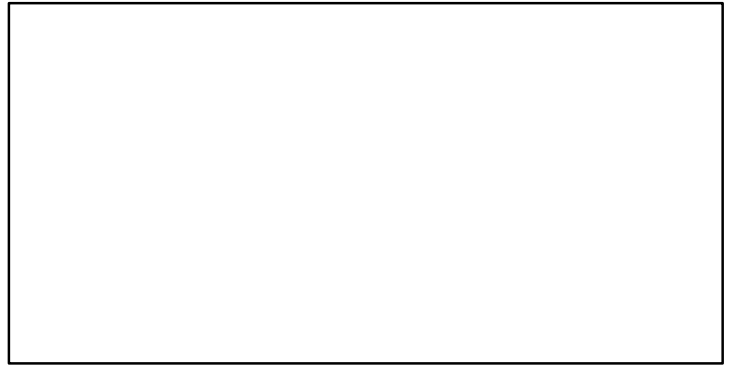


Red mullet Northern Spain [RMULLMEDGSA6]

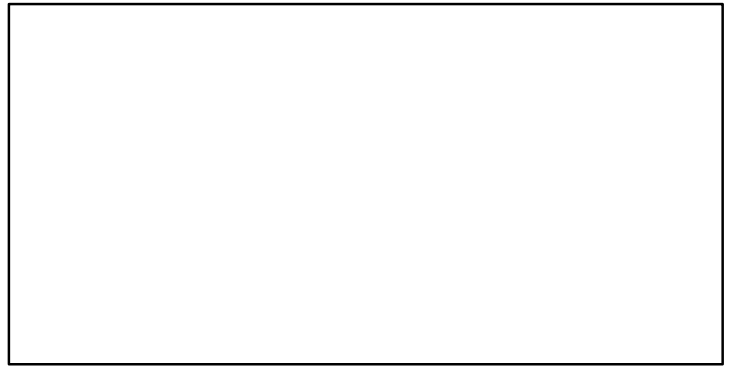
TC-MT, TL\*, RecC\* (2003–2019–MEDIMP2021–2)



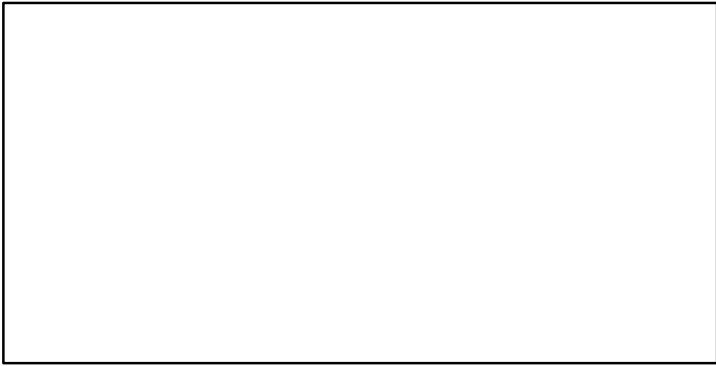
TAC\*, Cpair\*, Cadv\*



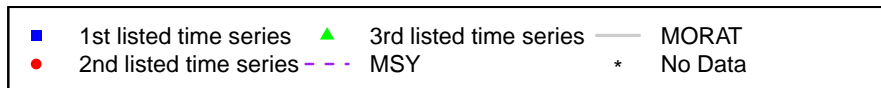
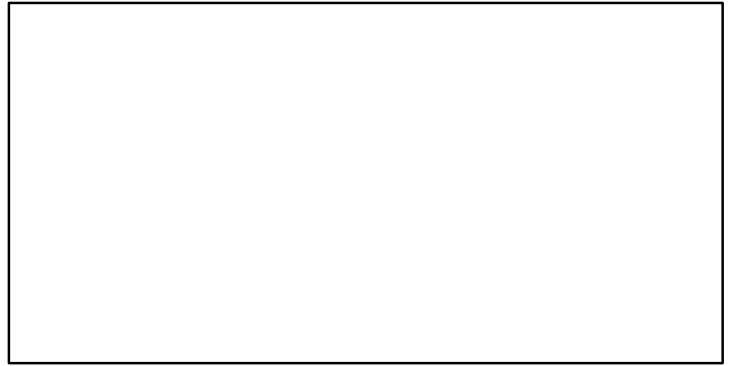
CPUE\*



EFFORT\*



CdivMSY\*





## Red mullet Gulf of Lions [RMULLMEDGSA7]

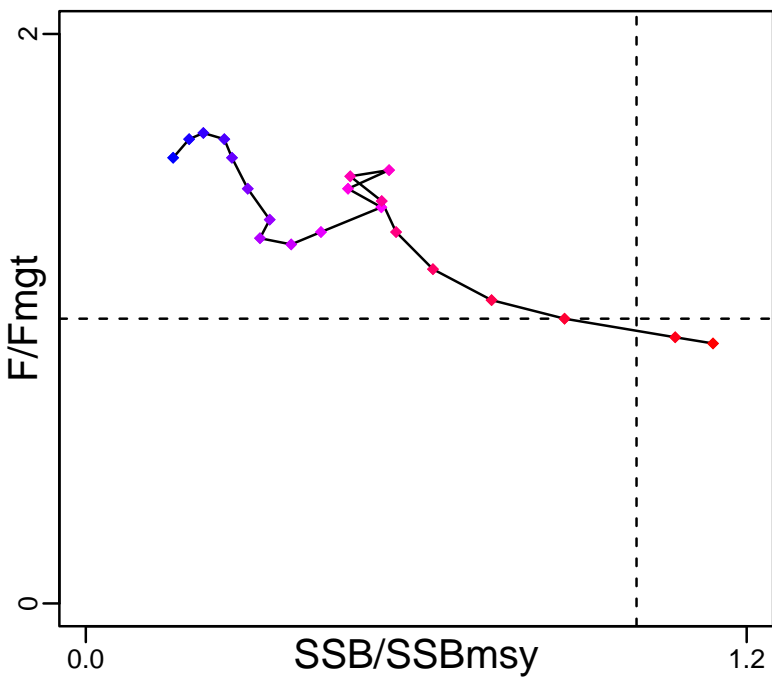
Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	WGSAD-RMULLMEDGSA7-2002-2022-HIVELY
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Working Group on Stock Assessment of Demersal Species
<b>Asmts in RAM</b>	2019, 2013, 2021, 2022

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2022	775
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2022	775
<b>Fmgt</b>	Fmgt-1/yr	2022	0.46
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2022	134
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

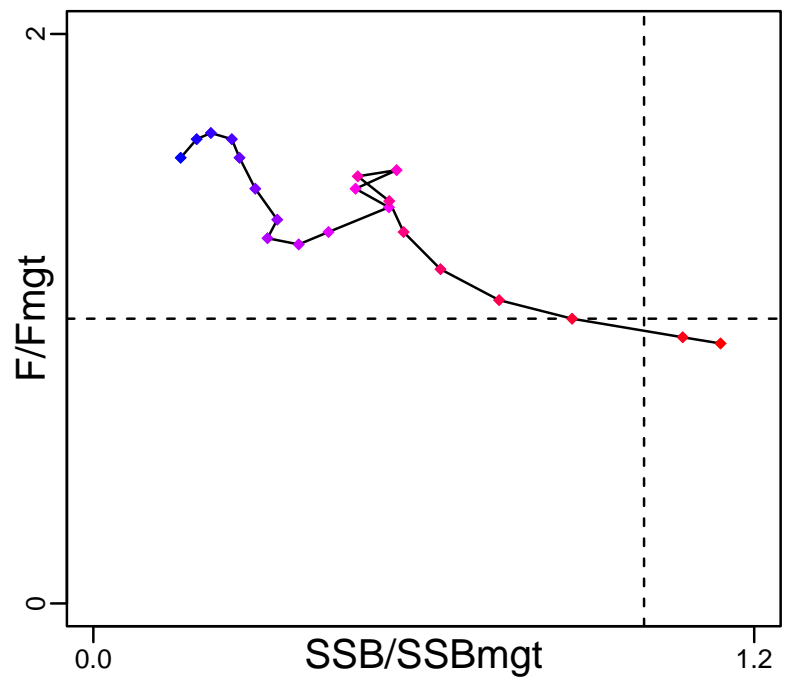
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2022	883	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2022	63,903,800	-	-
<b>F</b>	F-1/yr	2022	0.42	-	1 to 3
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2022	467		
<b>TL</b>	TL-MT	2021	432		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2022	1.139		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2022	1.139		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2022	0.913		
<b>ER/ERmgt</b>	-	-	-		

# Red mullet Gulf of Lions [RMULLMEDGSA7]

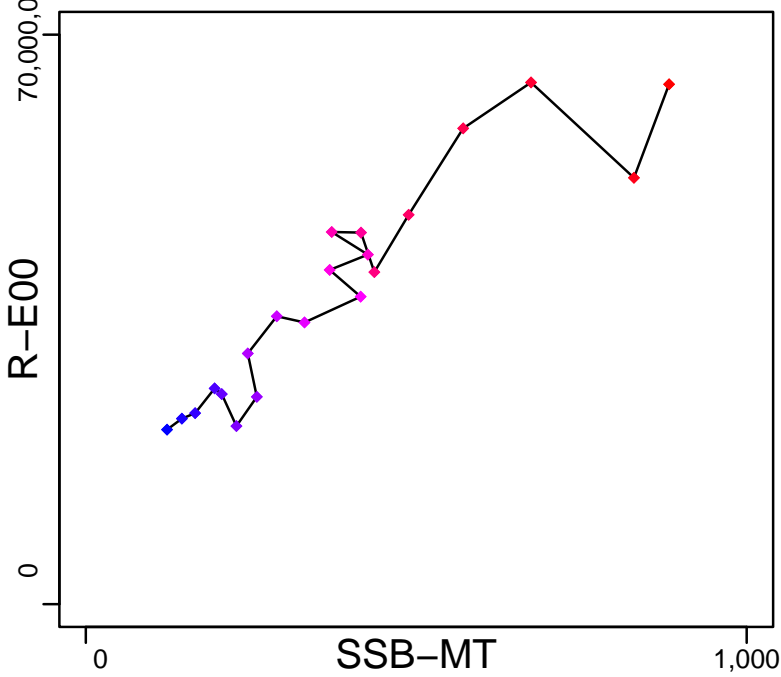
Kobe MSYpref (2002–2022–HIVELY)



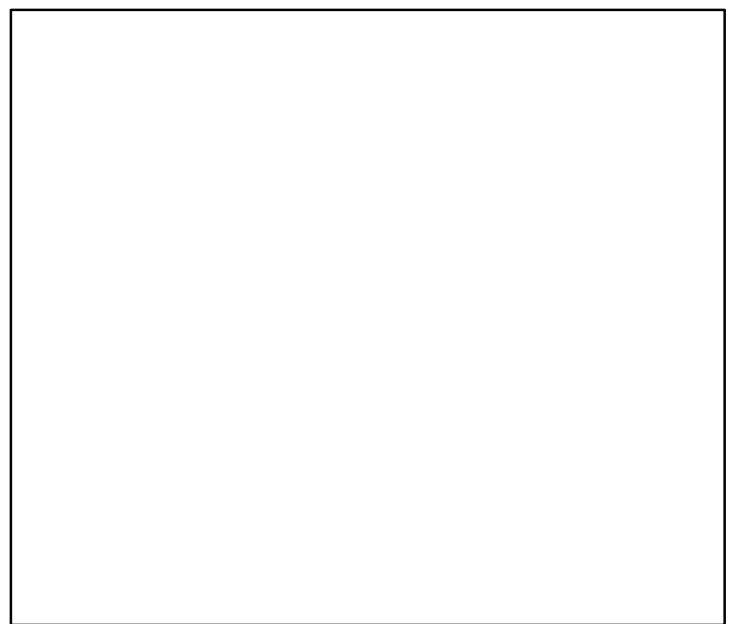
Kobe MGTpref (2002–2022–HIVELY)



Spawner Recruit (2002–2022–HIVELY)



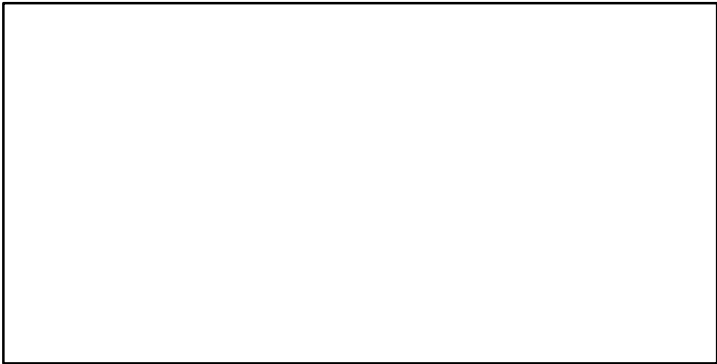
Production\*



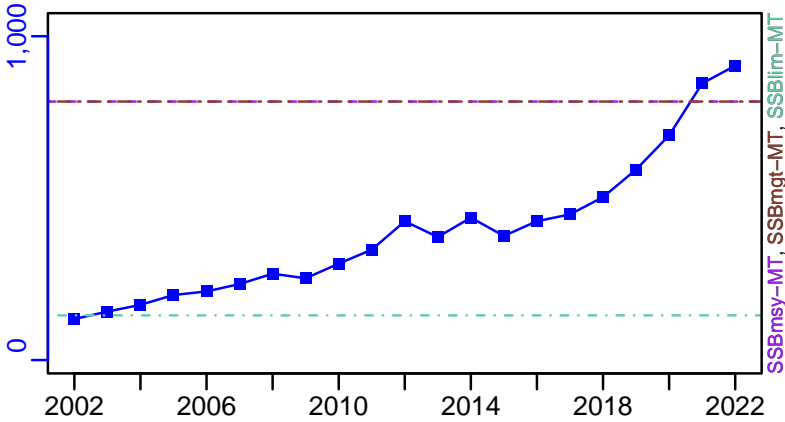
◆ Start Year ◆ End Year \* No Data

Red mullet Gulf of Lions [RMULLMEDGSA7]

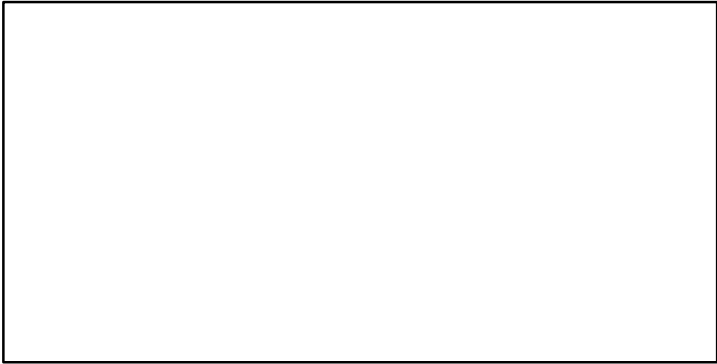
TB\*



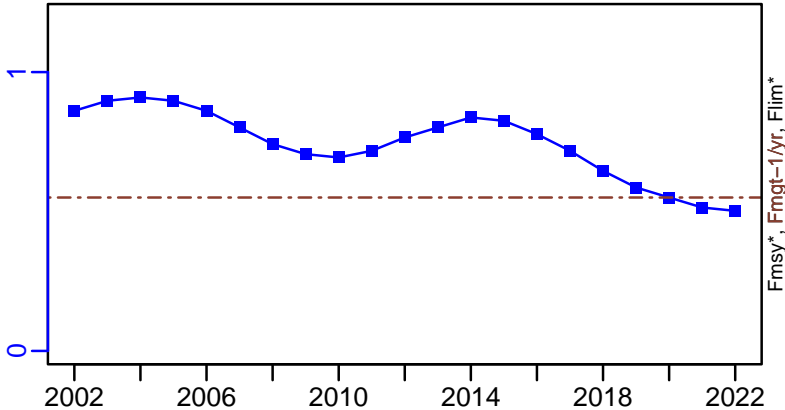
SSB-MT (2002-2022-HIVELY)



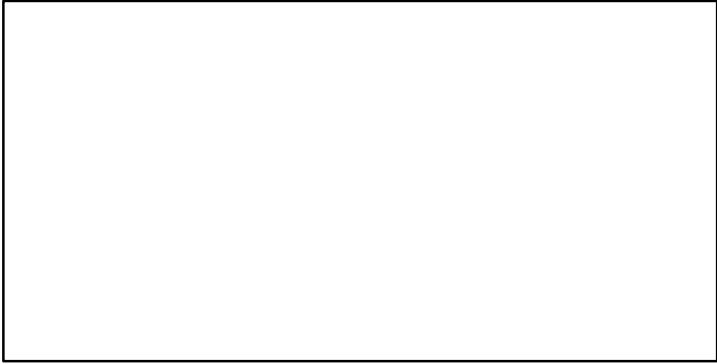
TN \*



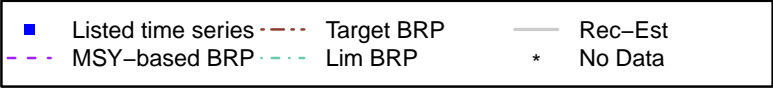
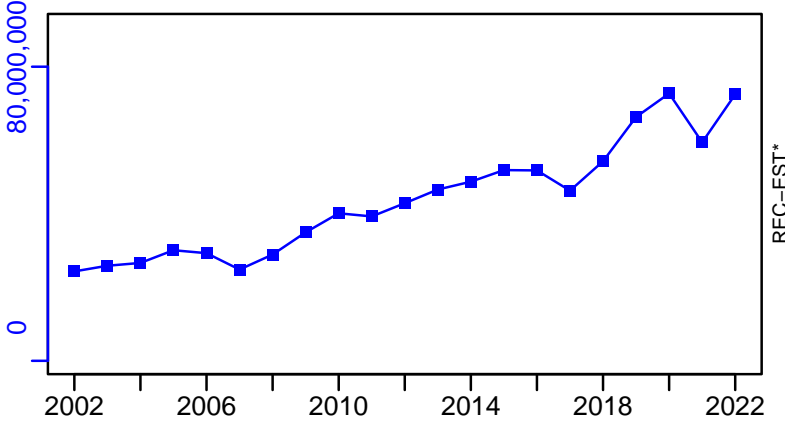
F-1/yr (2002-2022-HIVELY)



ER\*



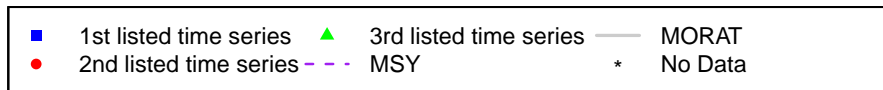
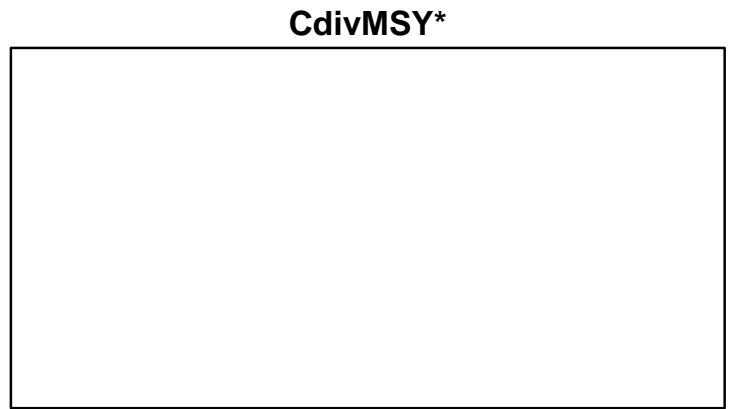
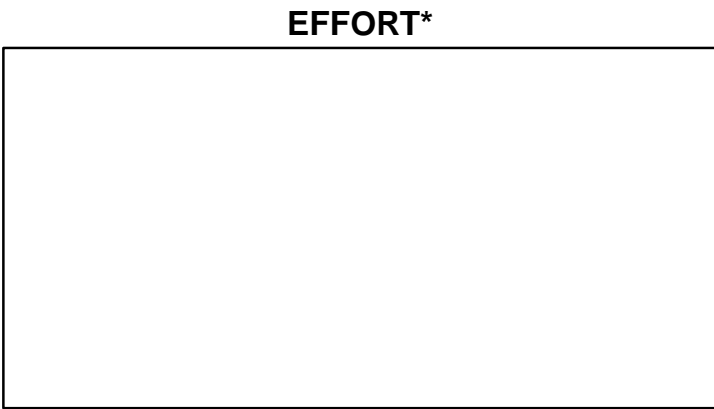
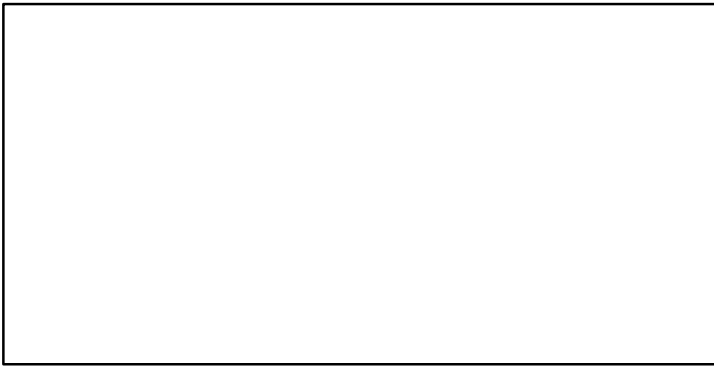
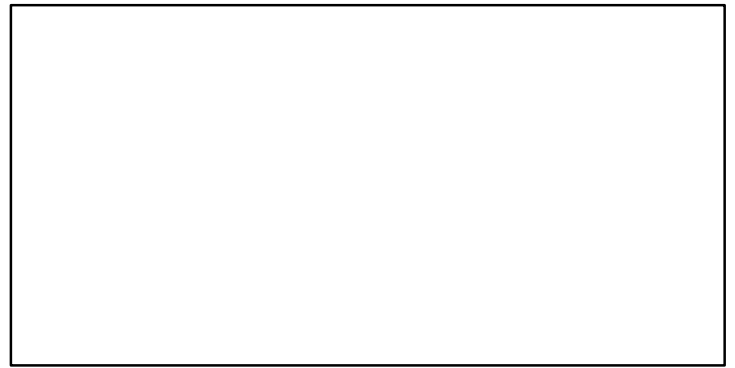
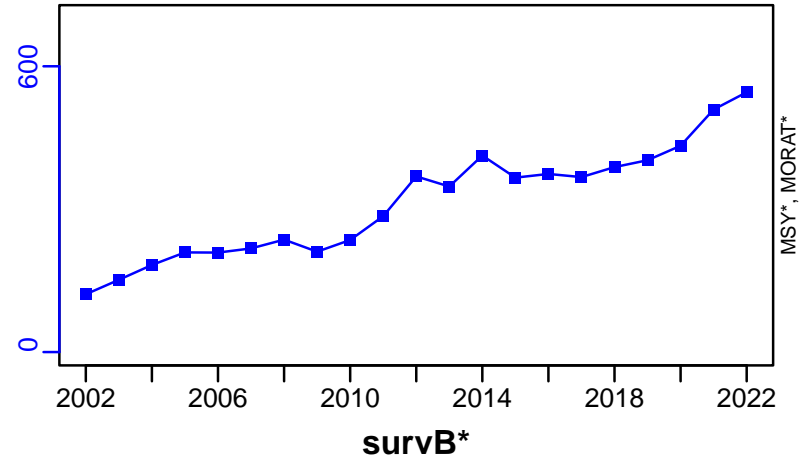
R-E00 (2002-2022-HIVELY)



# Red mullet Gulf of Lions [RMULLMEDGSA7]

TC-MT, TL\*, RecC\* (2002-2022-HIVELY)

TAC\*, Cpair\*, Cadv\*



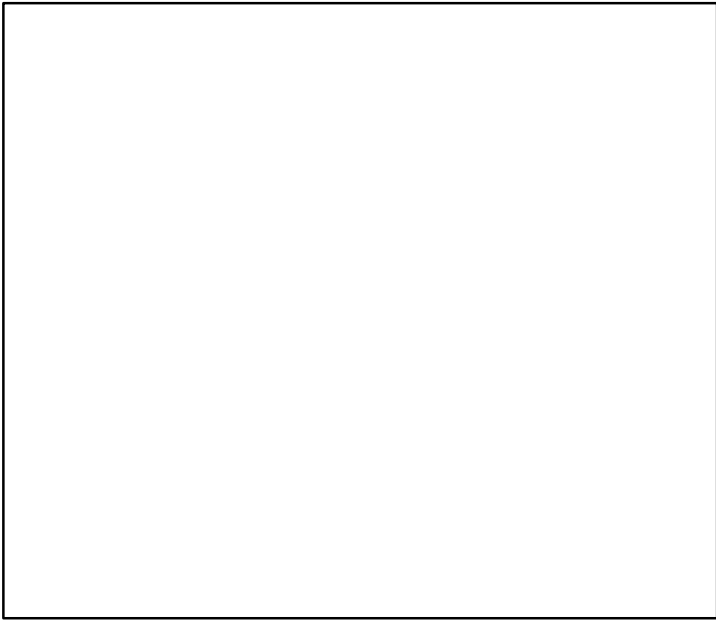
## Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA9-2004-2019-MEDIMP2021-2
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2019, 2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2019	0.506
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	2019	1409	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	271,663,084	-	-
<b>F</b>	F-1/yr	2019	0.846	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2019	1011		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	1.67		
<b>ER/ERmgt</b>	-	-	-		

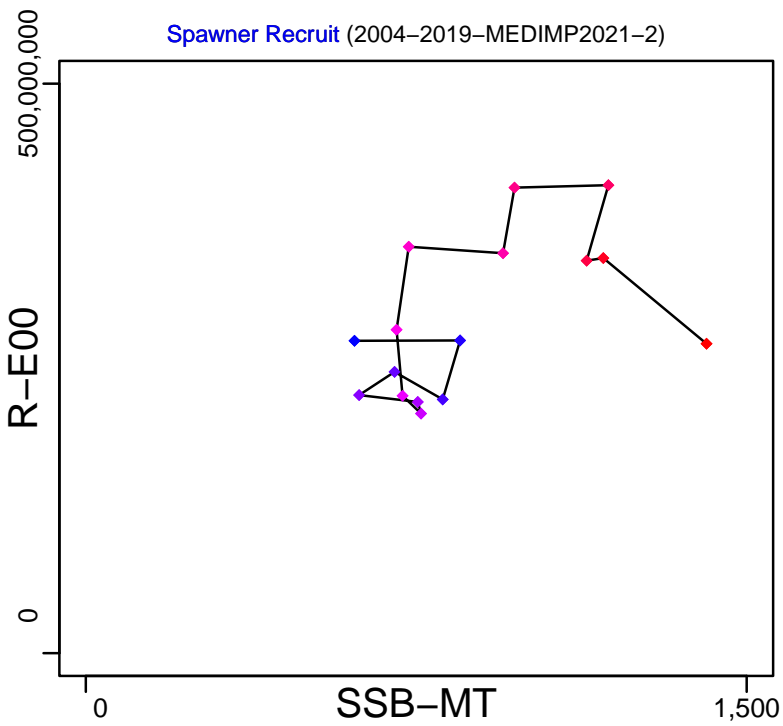
**Kobe MSY\***



**Kobe MGT\***

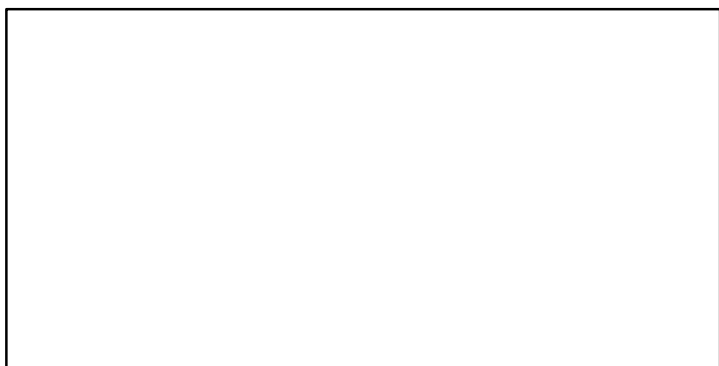


Spawner Recruit (2004–2019–MEDIMP2021–2)

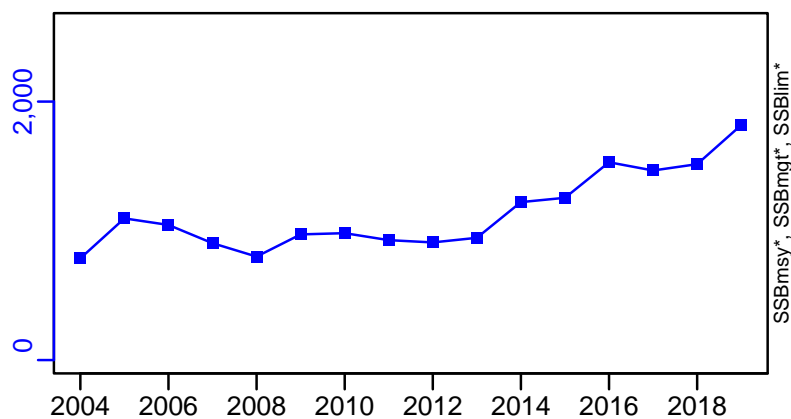


# Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

TB\*



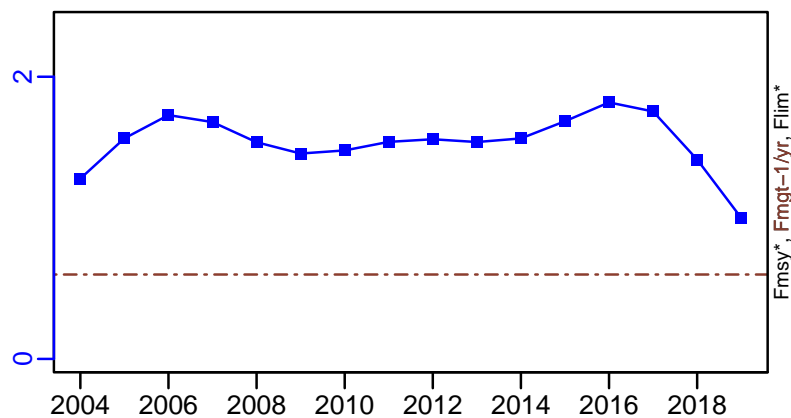
SSB-MT (2004–2019–MEDIMP2021–2)



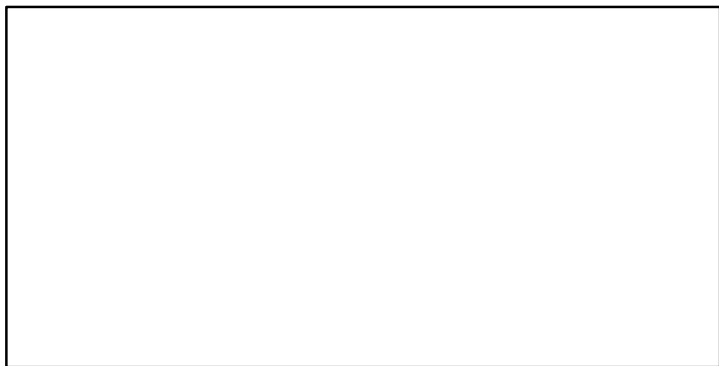
TN \*



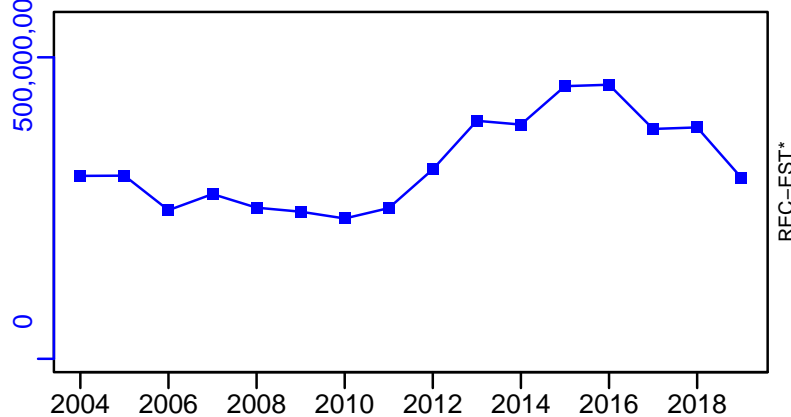
F-1/yr (2004–2019–MEDIMP2021–2)



ER\*

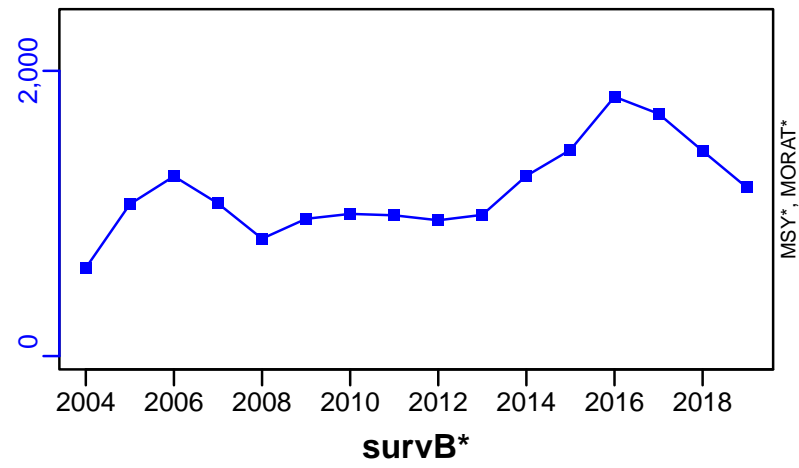


R-E00 (2004–2019–MEDIMP2021–2)

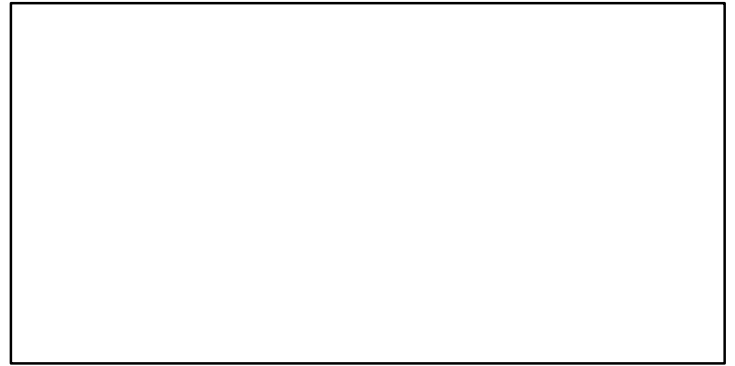


# Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

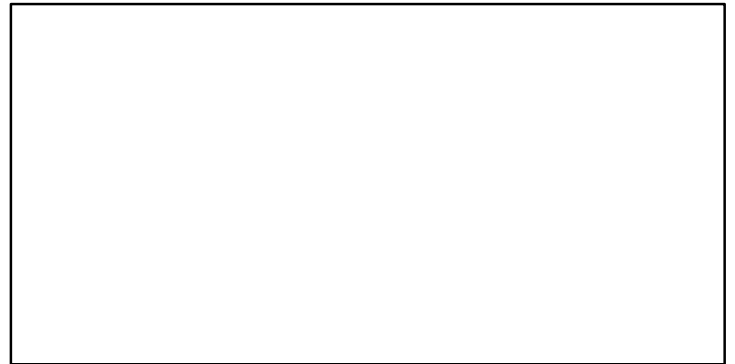
TC-MT, TL\*, RecC\* (2004–2019–MEDIMP2021–2)



TAC\*, Cpair\*, Cadv\*



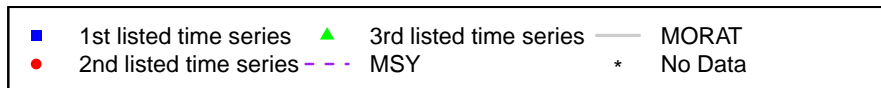
CPUE\*



EFFORT\*



CdivMSY\*





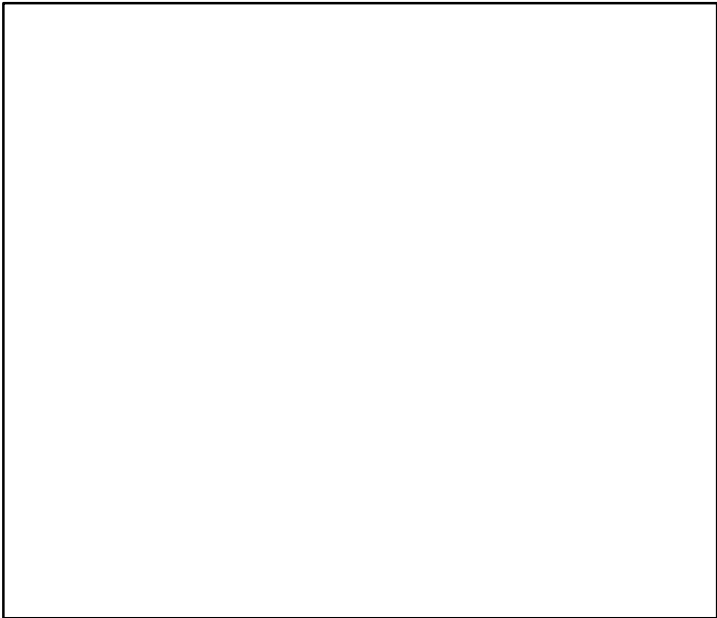
## Red pandora Central West Africa Cote Divoire-Benin [RPANDCWACIV-BEN]

Metadata	
<b>Scientific Name</b>	Pagellus bellottii
<b>Current Assess ID</b>	FAO-DR-RPANDCWACIV-BEN-1990-2007-CHING
<b>Area</b>	Central West Africa Cote Divoire-Benin
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	16	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	8170		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

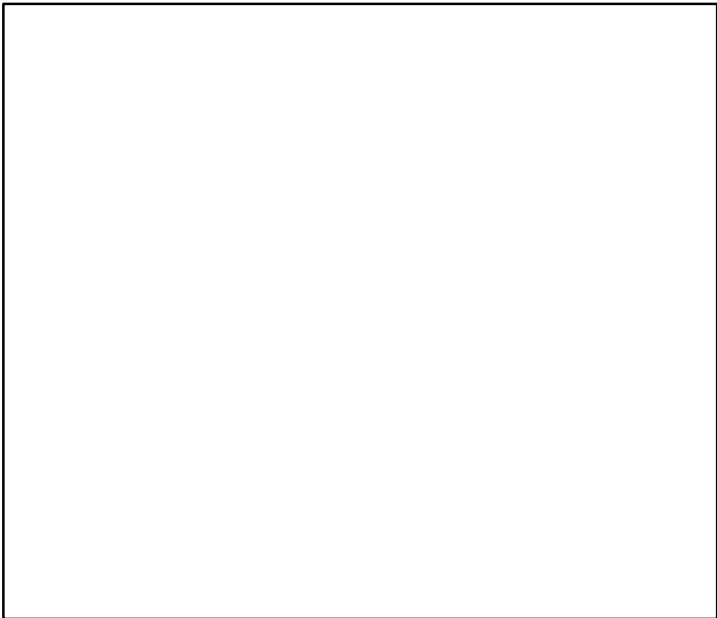
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



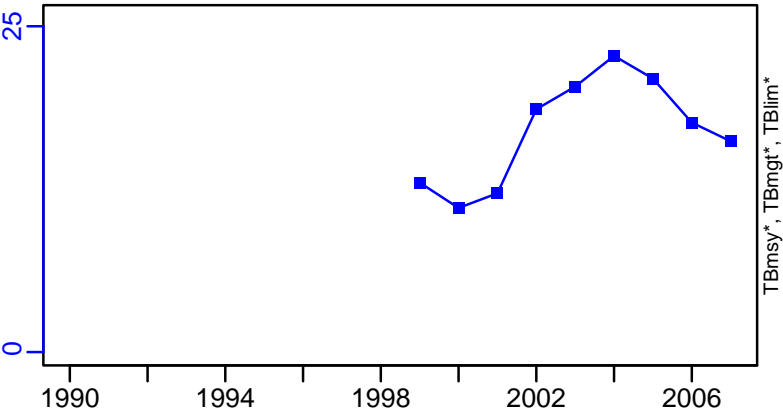
Production\*



◆ Start Year    ◆ End Year    \* No Data

Red pandora Central West Africa Cote Divoire–Benin [RPANDCWACIV–BEN]

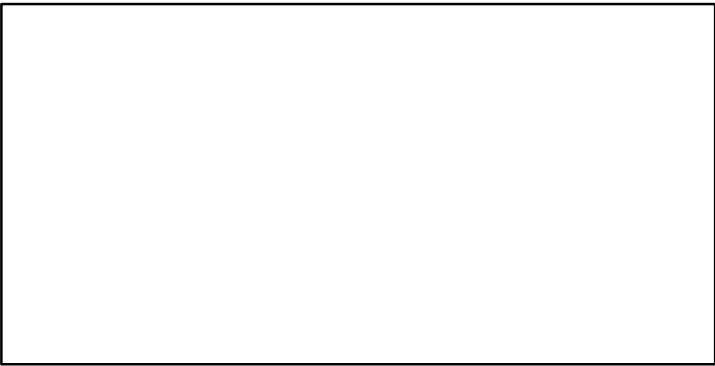
TB–index (1990–2007–CHING)



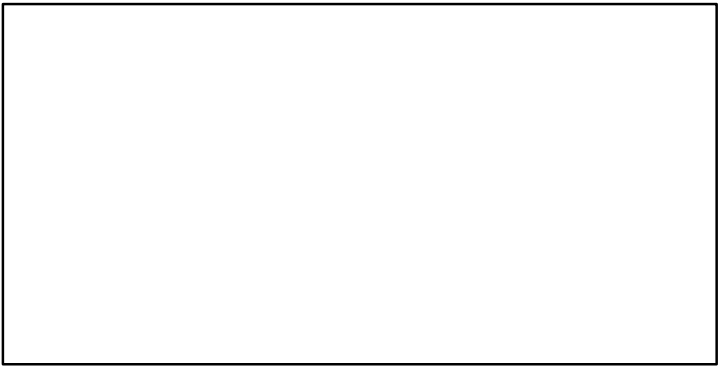
SSB\*



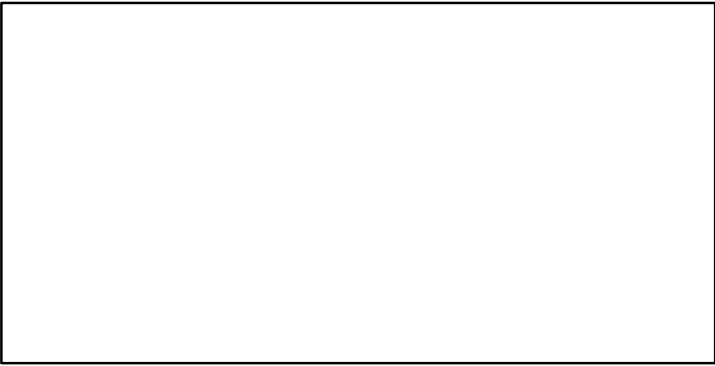
TN \*



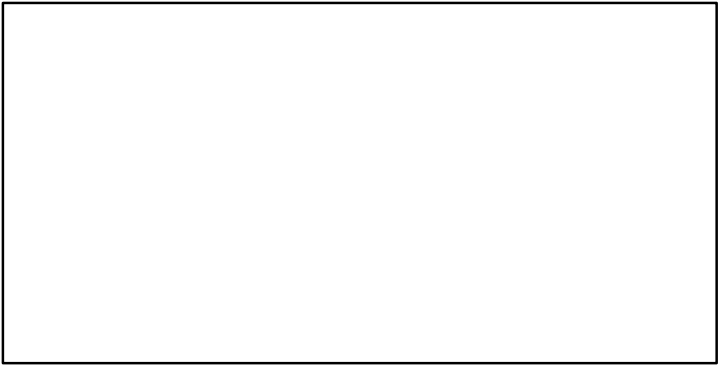
F\*



ER\*



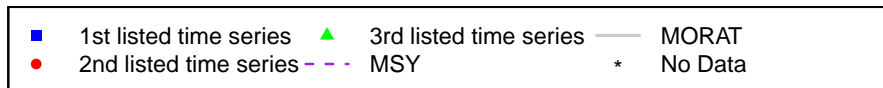
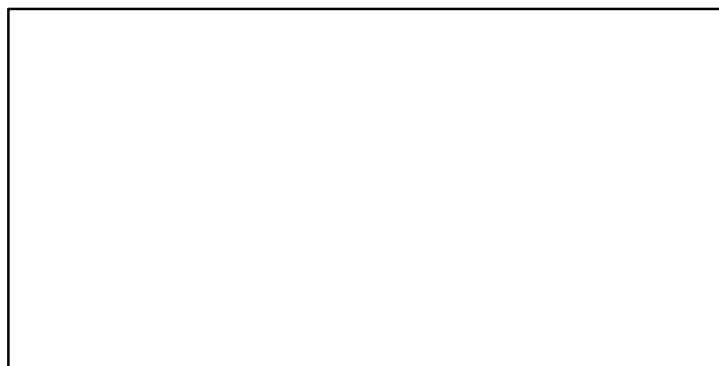
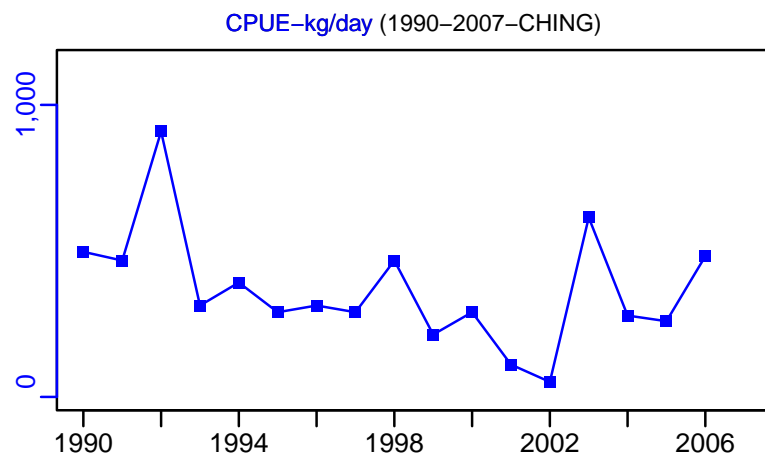
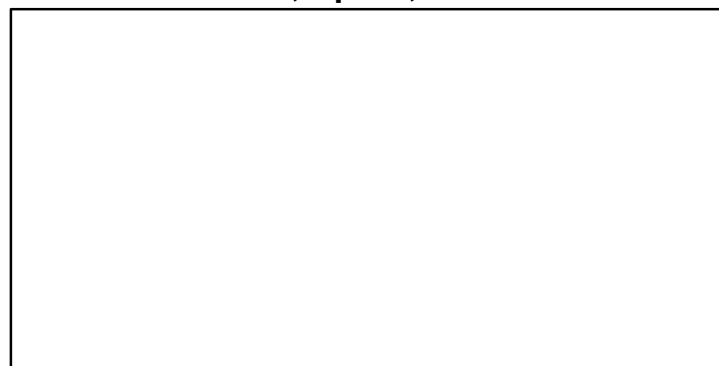
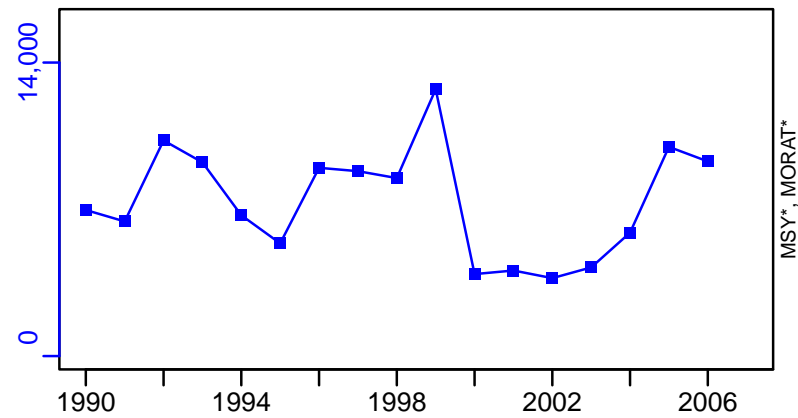
Recruits\*



# Red pandora Central West Africa Cote Divoire–Benin [RPANDCWACIV–BEN]

TC–MT, TL\*, RecC\* (1990–2007–CHING)

TAC\*, Cpair\*, Cadv\*



## Red pandora North West Africa [RPANDNWA]

Metadata	
<b>Scientific Name</b>	Pagellus bellottii
<b>Current Assess ID</b>	FAO-DR-RPANDNWA-1990-2016-ASHBROOK
<b>Area</b>	North West Africa
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2016

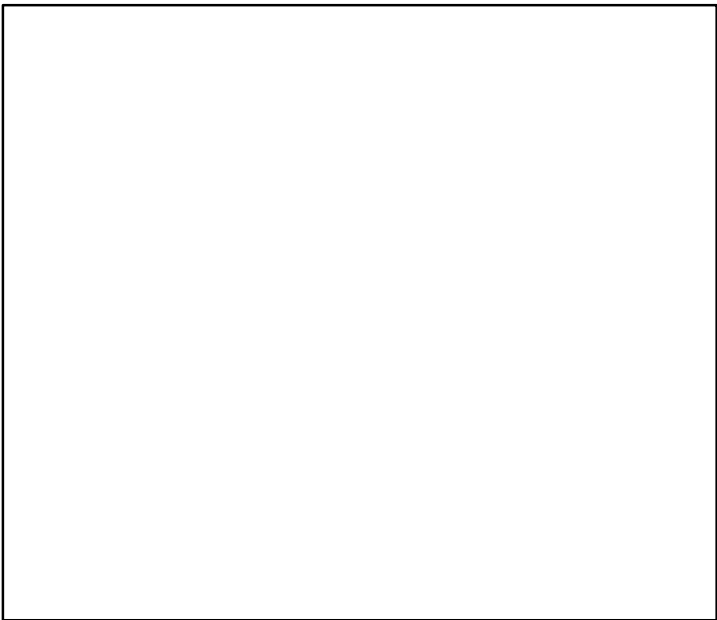
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	9304		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

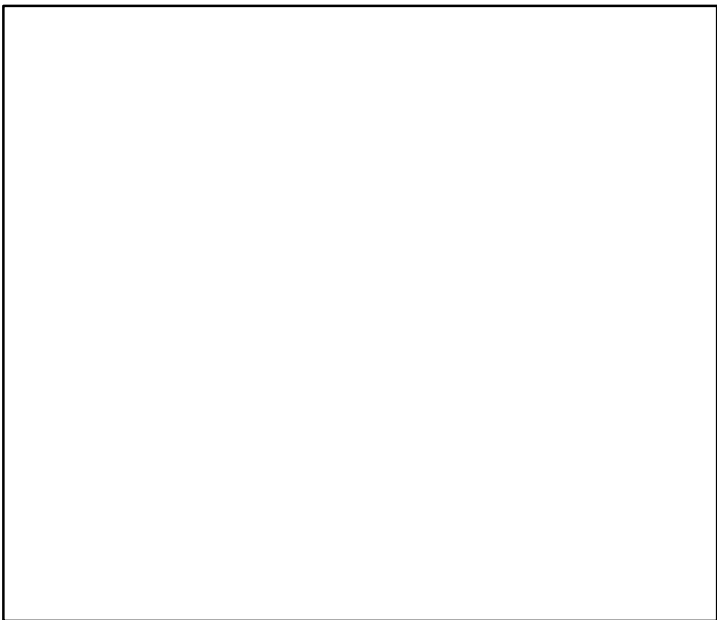
Kobe MSY\*



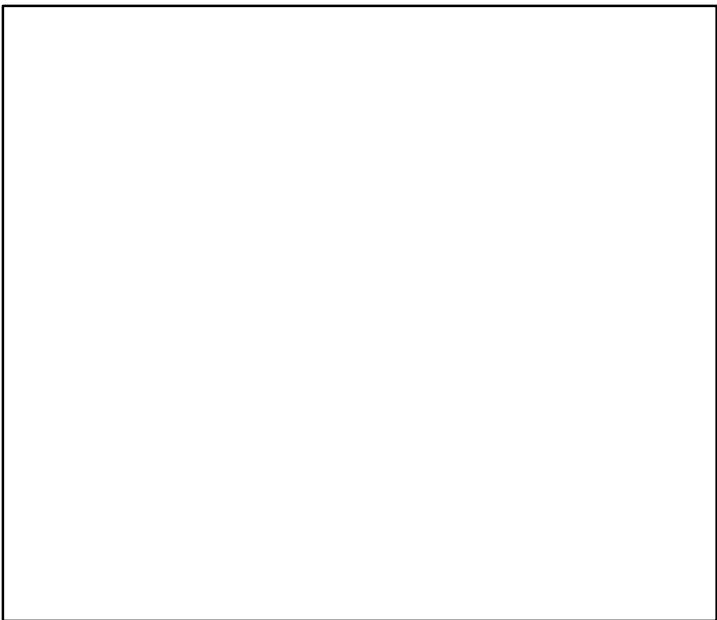
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Red pandora North West Africa [RPANDNWA]

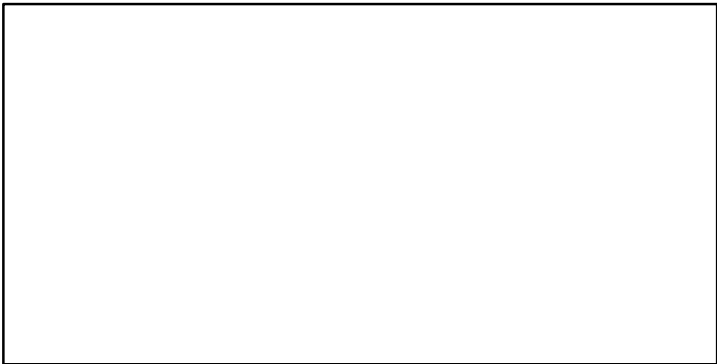
TB\*



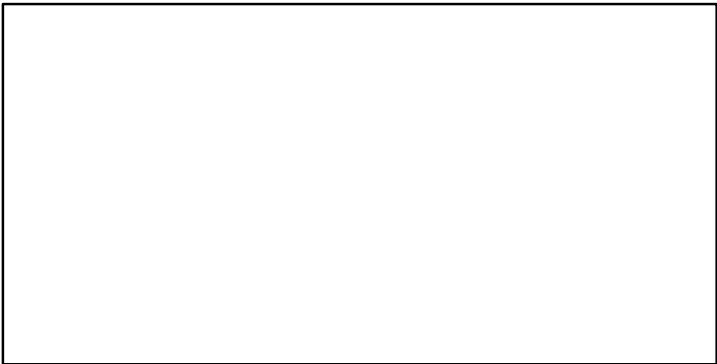
SSB\*



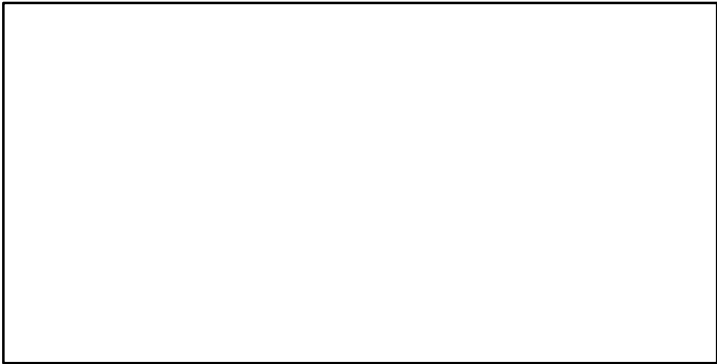
TN \*



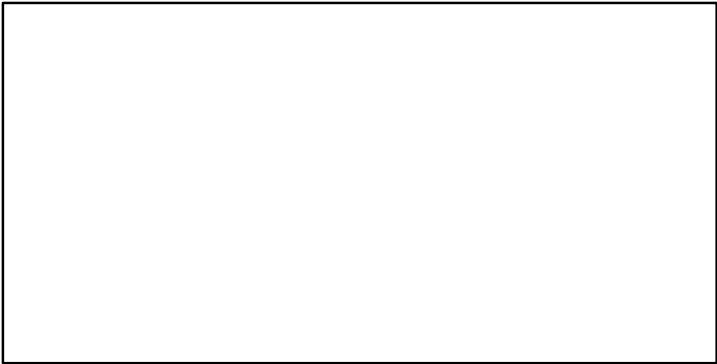
F\*



ER\*

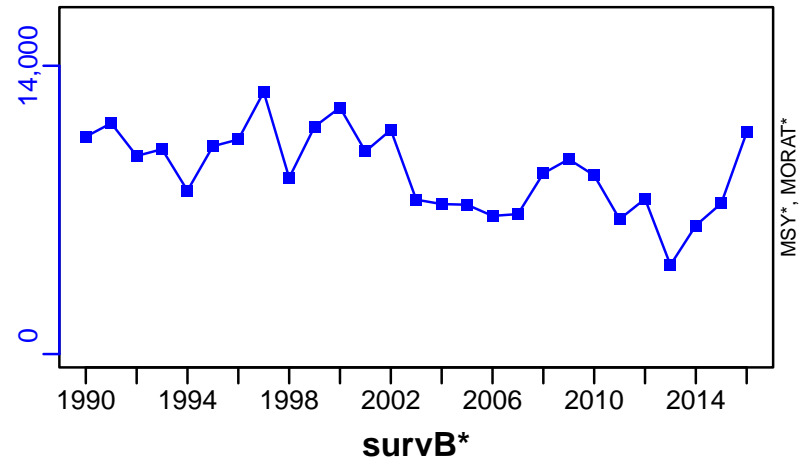


Recruits\*



Red pandora North West Africa [RPANDNWA]

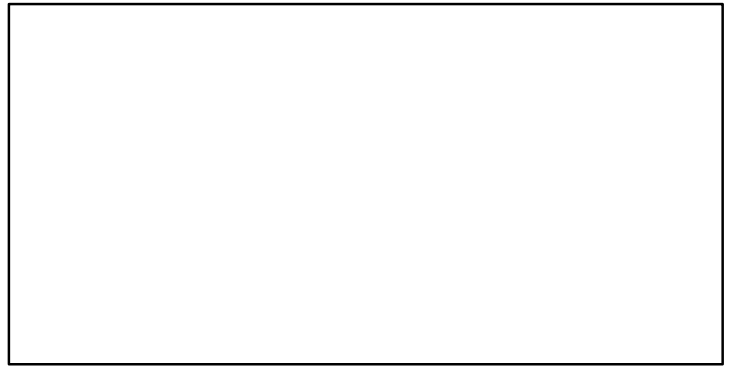
TC-MT, TL\*, RecC\* (1990–2016–ASHBROOK)



TAC\*, Cpair\*, Cadv\*



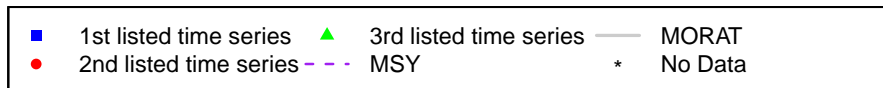
CPUE\*



EFFORT\*



CdivMSY\*





## Red porgy Southern Atlantic coast [RPORGYSATLC]

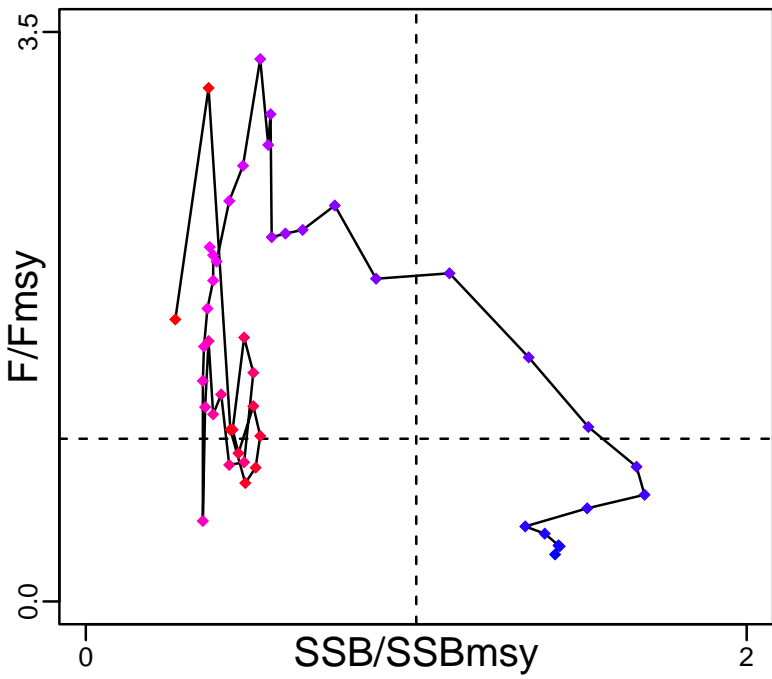
Metadata	
<b>Scientific Name</b>	Pagrus pagrus
<b>Current Assess ID</b>	SEFSC-RPORGYSATLC-1972-2017-SISIMP2021-2
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2012, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2012	4254
<b>SSBmsy</b>	SSBmsy-MT	2017	2880
<b>Fmsy</b>	Fmsy-1/yr	2017	0.18
<b>ERmsy</b>	ERmsy-calc-ratio	2012	0.089
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2017	241
<b>M</b>	M-1/yr	2012	0.23
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2017	2250
<b>Flim</b>	Flim-1/yr	2017	0.18
<b>ERlim</b>	-	-	-

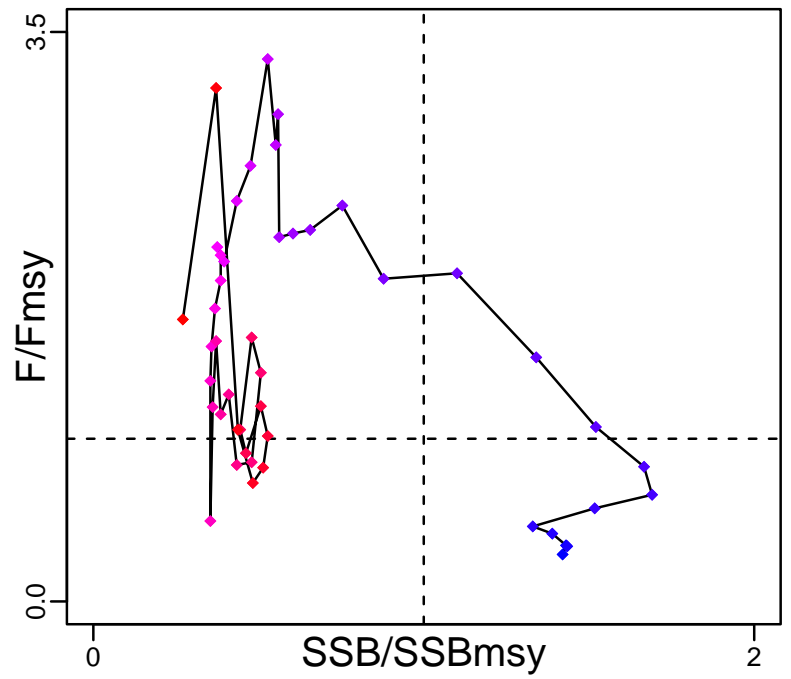
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2012	2020	-	-
<b>SSB</b>	SSB-MT	2017	780	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	345,000	-	1
<b>F</b>	F-1/yr	2017	0.312	-	-
<b>ER</b>	ER-calc-ratio	2012	0.077	-	-
<b>TC</b>	TC-MT	2017	115		
<b>TL</b>	TL-MT	2012	155		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2012	0.475		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2017	0.271		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	1.733		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2012	0.863		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Red porgy Southern Atlantic coast [RPORGYSATLC]

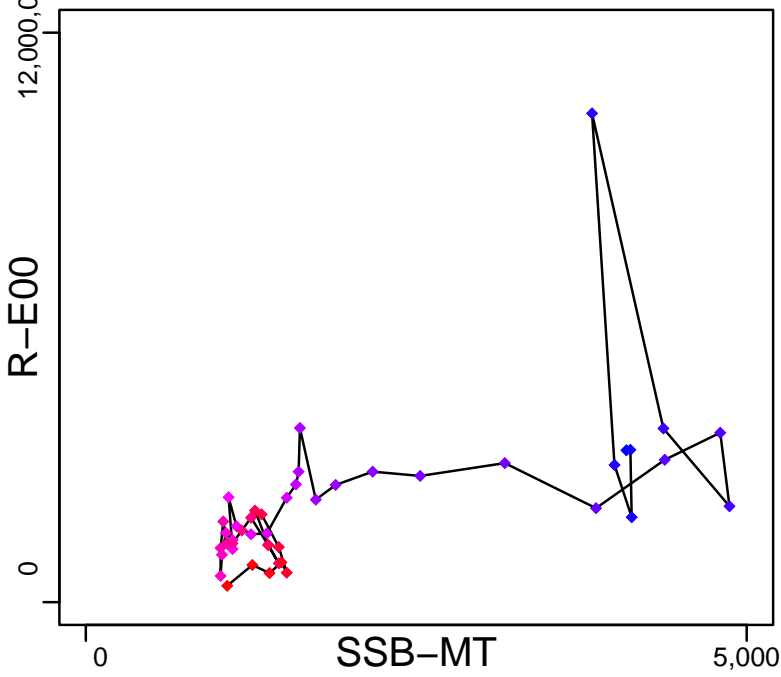
Kobe MSYpref (1972–2017–SISIMP2021–2)



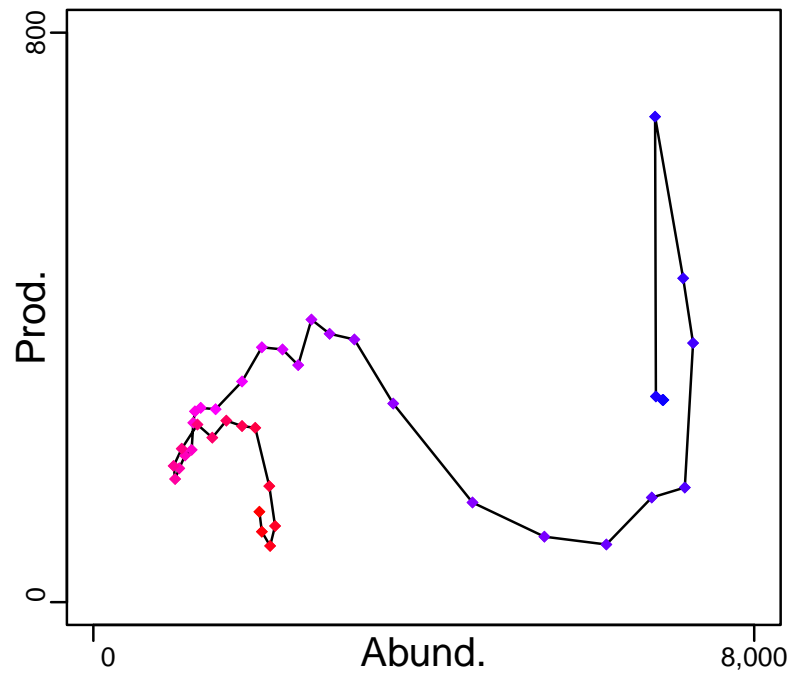
Kobe MGTpref (1972–2017–SISIMP2021–2)



Spawner Recruit (1972–2017–SISIMP2021–2)



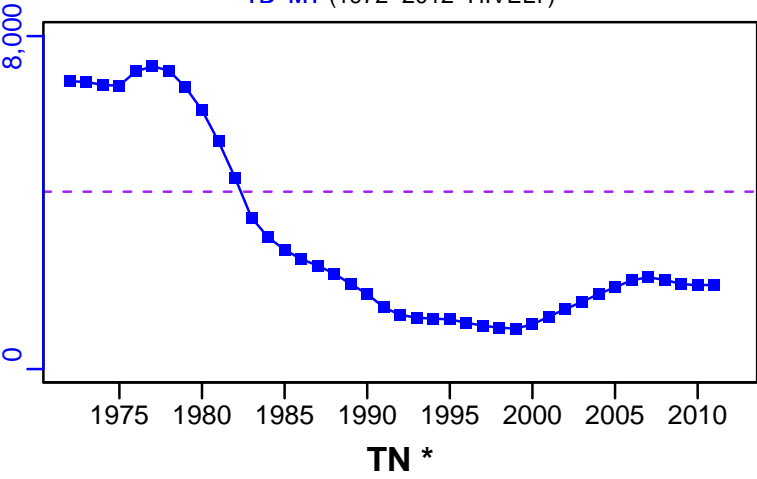
Production (1972–2012–HIVELY)



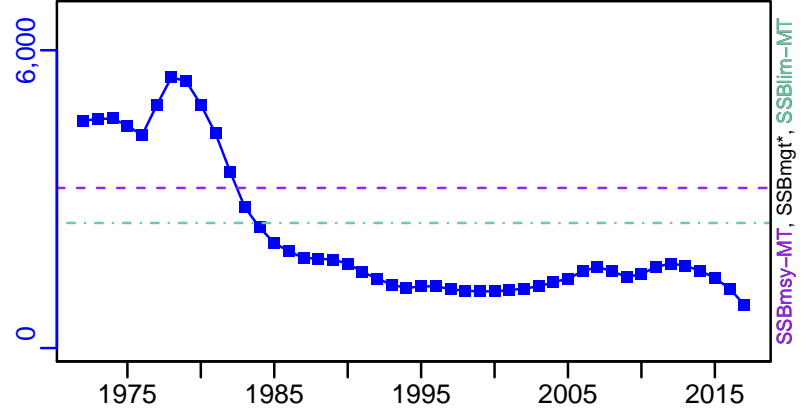
◆ Start Year ◆ End Year \* No Data

# Red porgy Southern Atlantic coast [RPORGYSATLC]

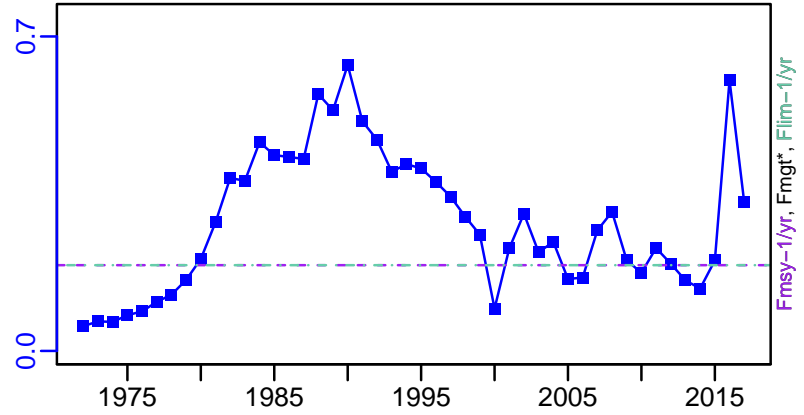
TB-MT (1972-2012-HIVELY)



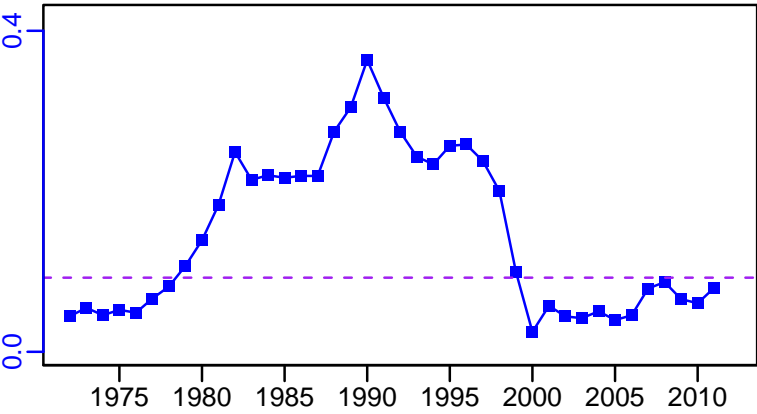
SSB-MT (1972-2017-SISIMP2021-2)



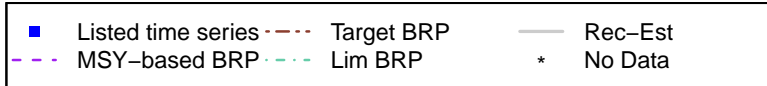
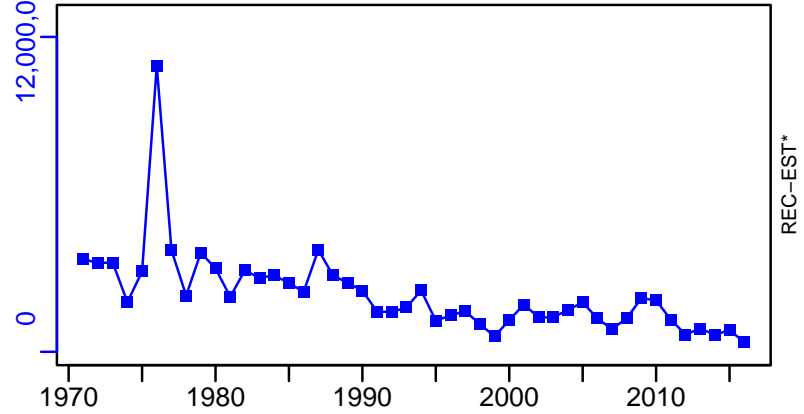
F-1/yr (1972-2017-SISIMP2021-2)



ER-calc-ratio (1972-2012-HIVELY)



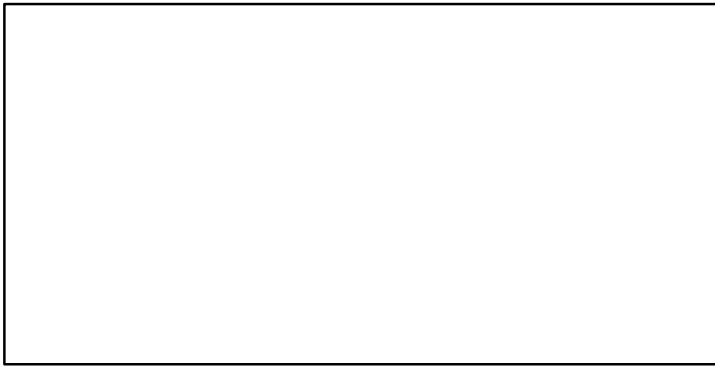
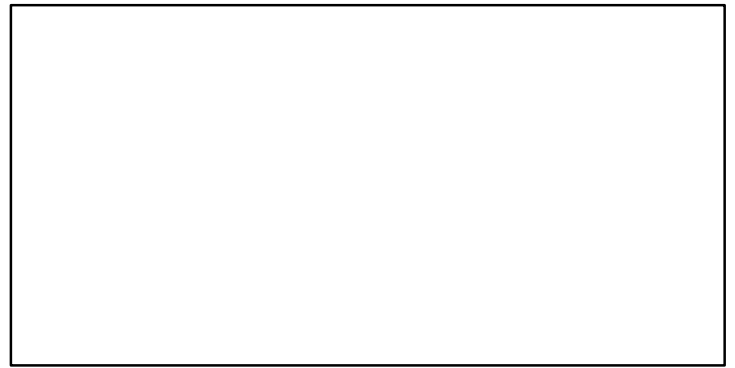
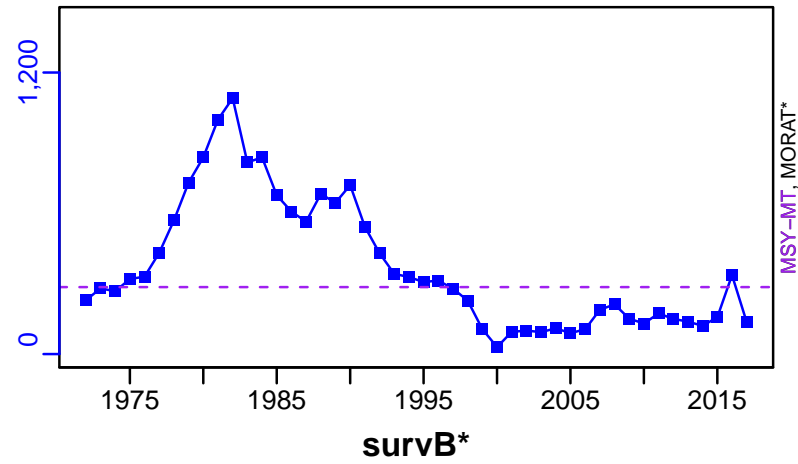
R-E00 (1972-2017-SISIMP2021-2)



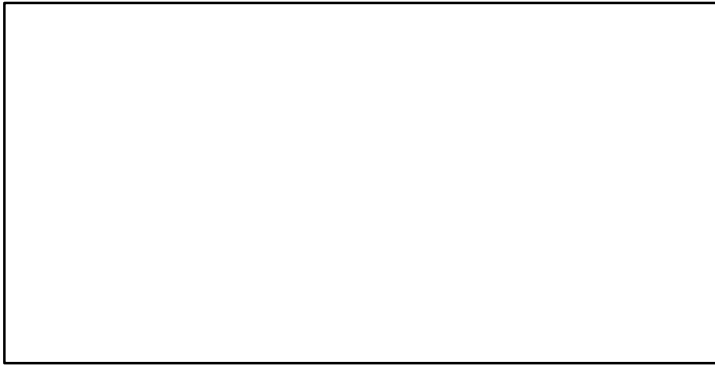
# Red porgy Southern Atlantic coast [RPORGYSATLC]

TC-MT, TL\*, RecC\* (1972-2017-SISIMP2021-2)

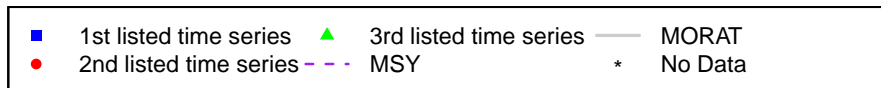
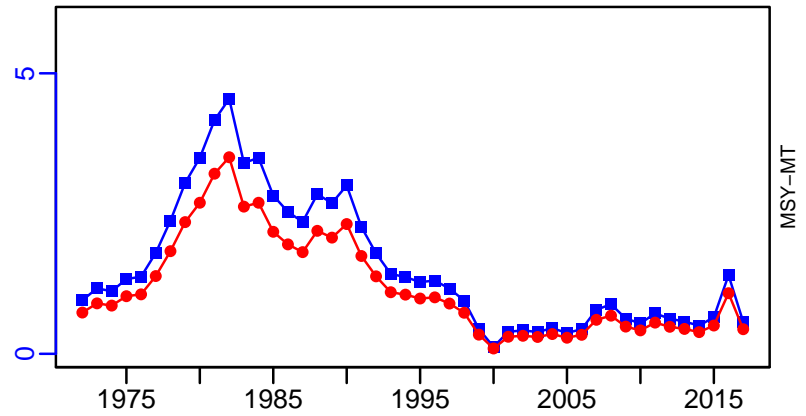
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1972-2017-SISIMP2021-2)



## Red snapper Gulf of Mexico [RSNAPGM]

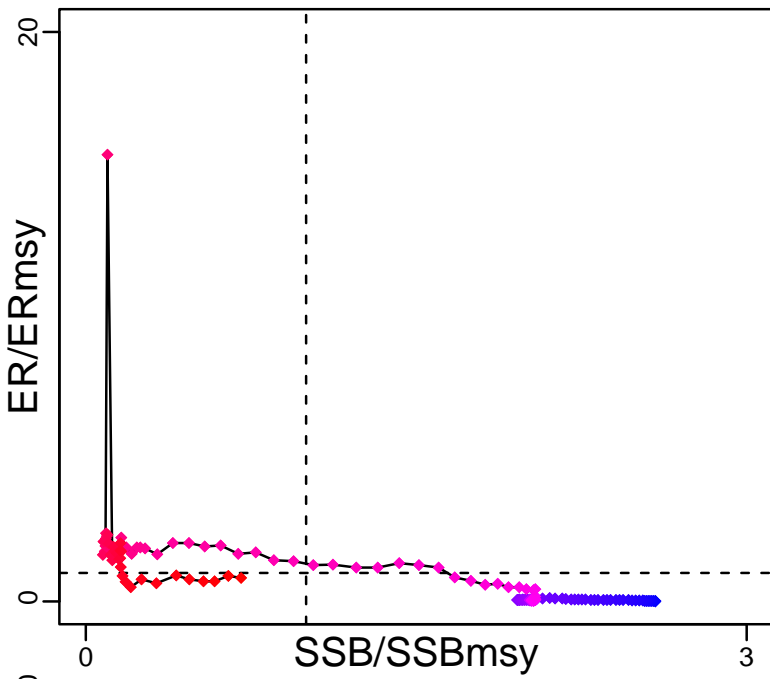
Metadata	
<b>Scientific Name</b>	Lutjanus campechanus
<b>Current Assess ID</b>	SEFSC-RSNAPGM-1872-2016-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011, 2013, 2016, 2016

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2016	101,667
<b>SSBmsy</b>	SSBmsy-E00eggs	2016	$1.23 \times 10^{15}$
<b>Fmsy</b>	Fmsy-pr-1/yr	2011	0.08
<b>ERmsy</b>	ERmsy-ratio	2016	0.058
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2016	0.058
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2016	5897
<b>M</b>	M-1/yr	2011	0.09
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2016	$6.15 \times 10^{14}$
<b>Flim</b>	-	-	-
<b>ERlim</b>	ERlim-ratio	2016	0.058

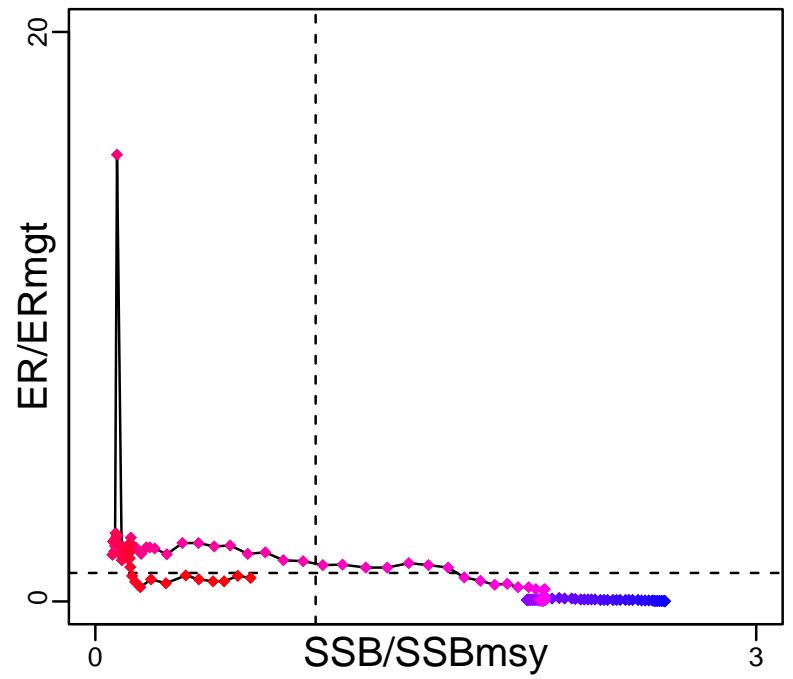
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	64,100	-	0+
<b>SSB</b>	SSB-E00eggs	2016	$8.67 \times 10^{14}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	138,792,000	-	0
<b>F</b>	F-1/yr	2011	0.062	-	-
<b>ER</b>	ER-ratio	2016	0.048	-	-
<b>TC</b>	TC-MT	2016	3050		
<b>TL</b>	TL-MT	2011	1630		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT	2013	0.536		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2016	0.705		
<b>F/Fmsy</b>	F-1/yr/Fmsy-pr-1/yr	2011	0.774		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2016	0.828		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Red snapper Gulf of Mexico [RSNAPGM]

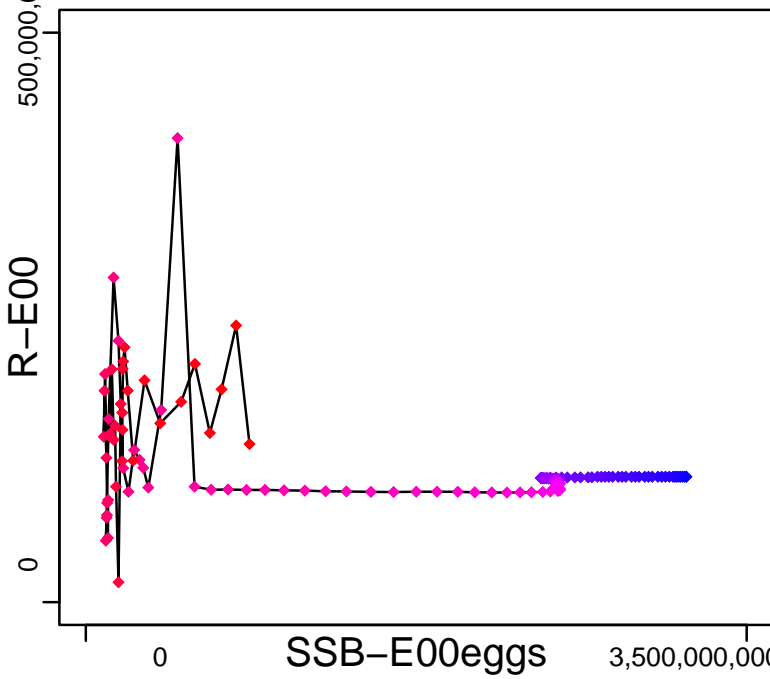
Kobe MSYpref (1872–2016–SISIMP2021)



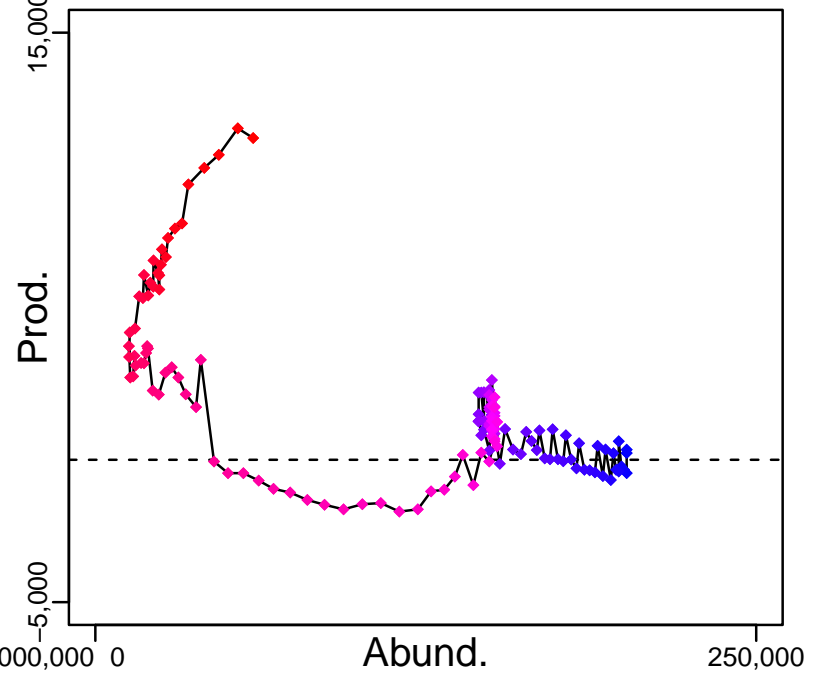
Kobe MGTpref (1872–2016–SISIMP2021)



Spawner Recruit (1872–2016–SISIMP2021)



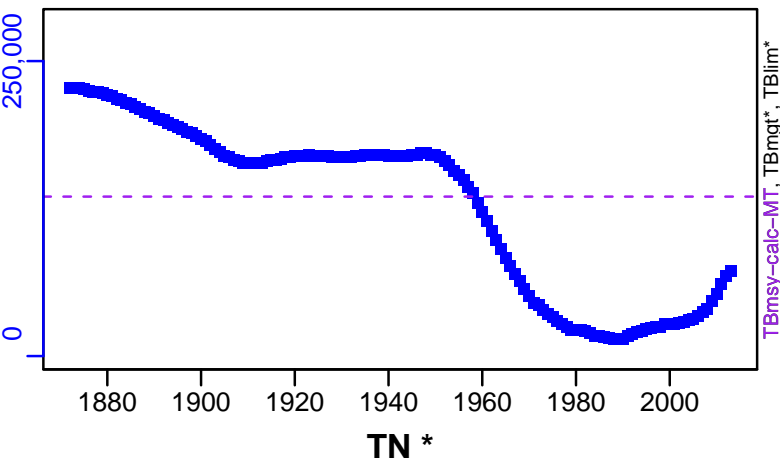
Production (1872–2013–SISIMP2016)



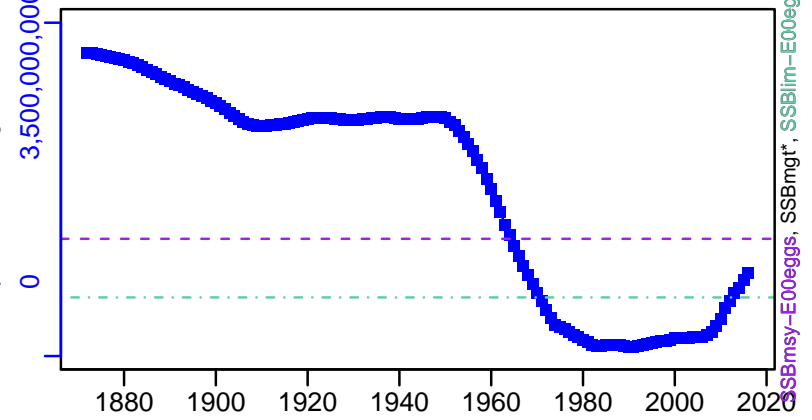
◆ Start Year ◆ End Year \* No Data

# Red snapper Gulf of Mexico [RSNAPGM]

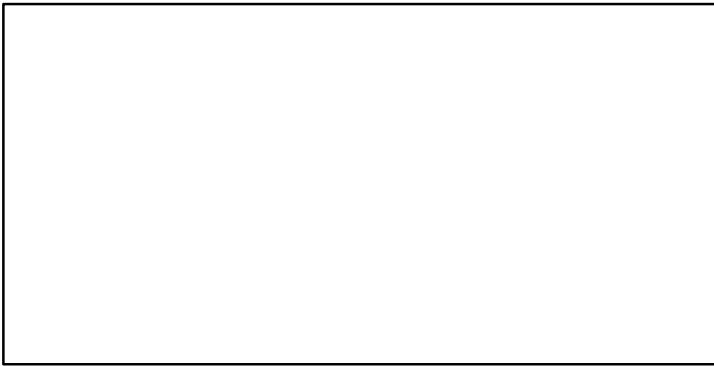
TB-MT (1872–2013–SISIMP2016)



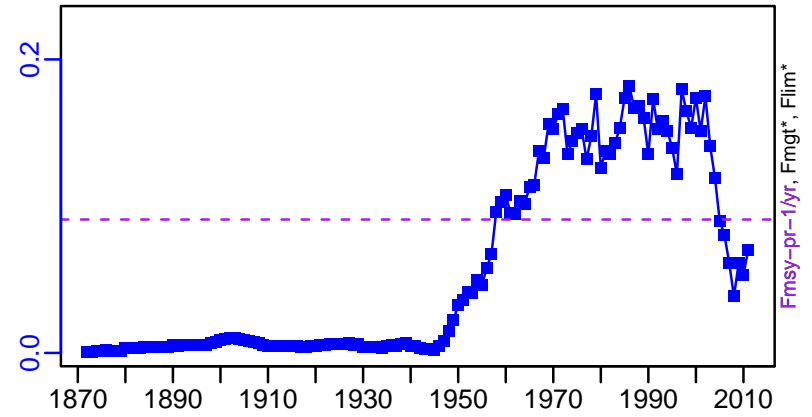
SSB-E00eggs (1872–2016–SISIMP2021)



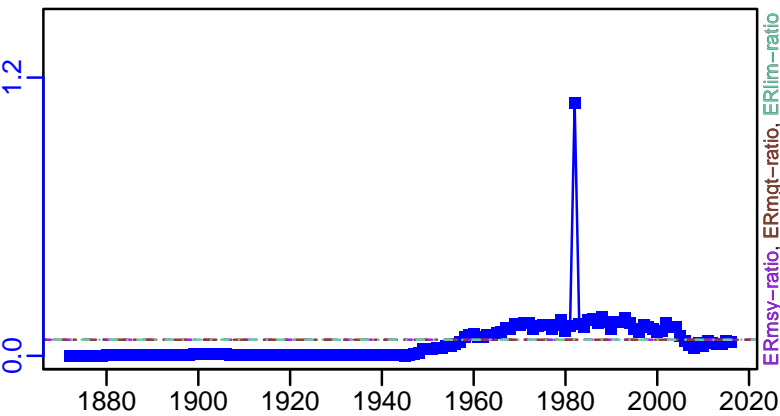
TN \*



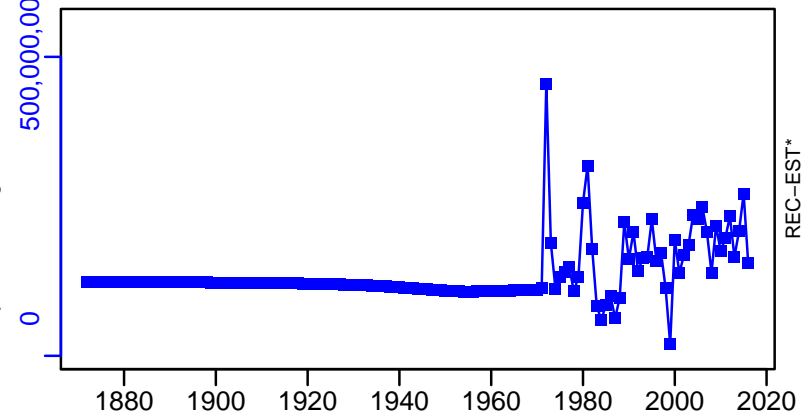
F-1/yr (1872–2011–HIVELY)



ER-ratio (1872–2016–SISIMP2021)



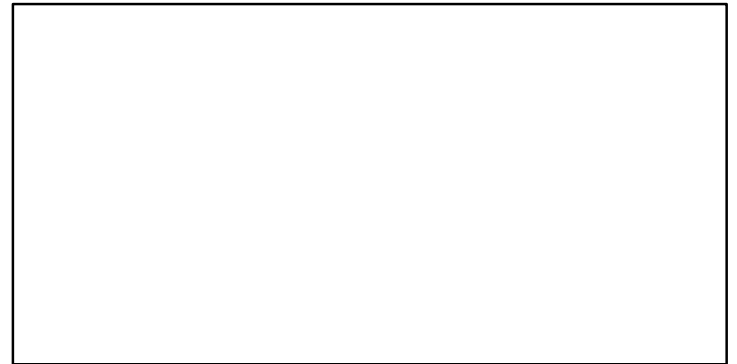
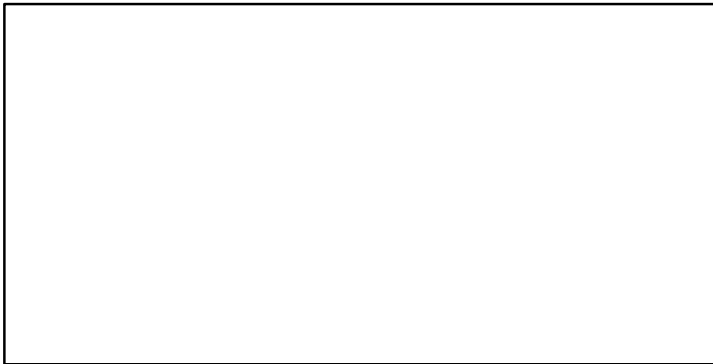
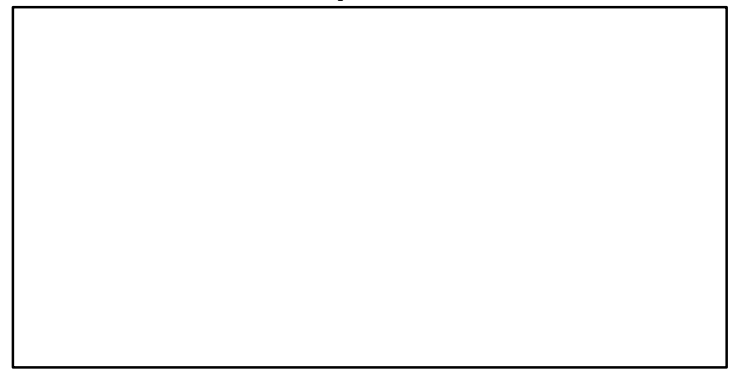
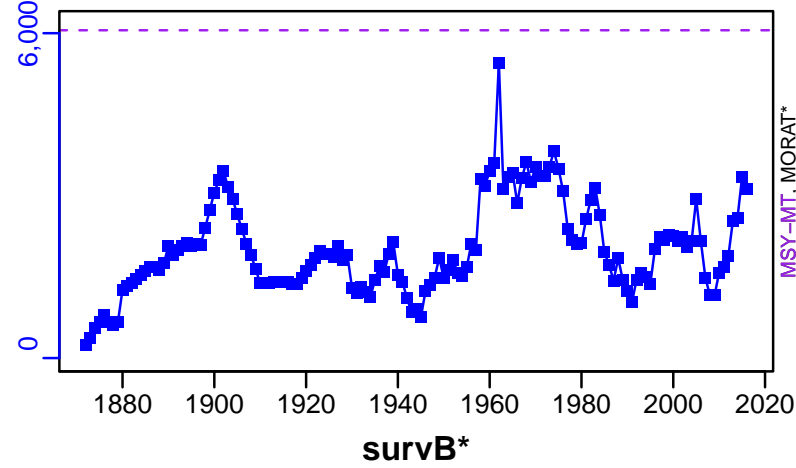
R-E00 (1872–2016–SISIMP2021)



# Red snapper Gulf of Mexico [RSNAPGM]

TC-MT, TL\*, RecC\* (1872-2016-SISIMP2021)

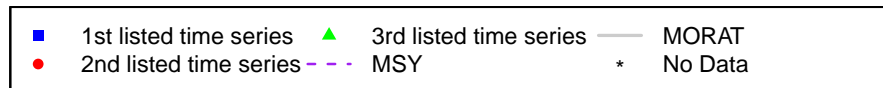
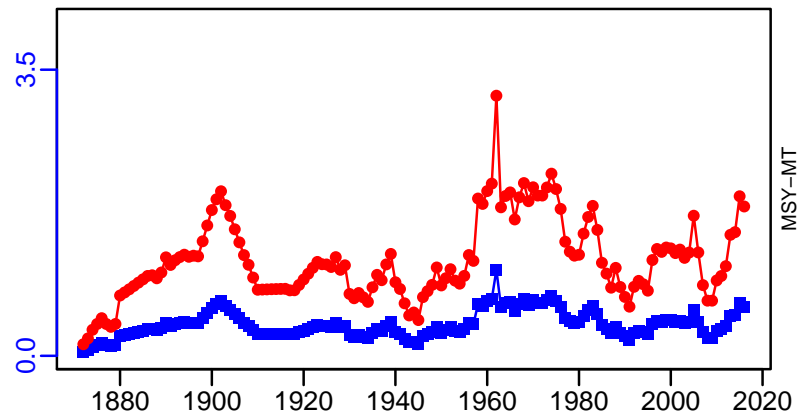
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1872-2016-SISIMP2021)





## Red snapper Southern Atlantic coast [RSNAPSATLC]

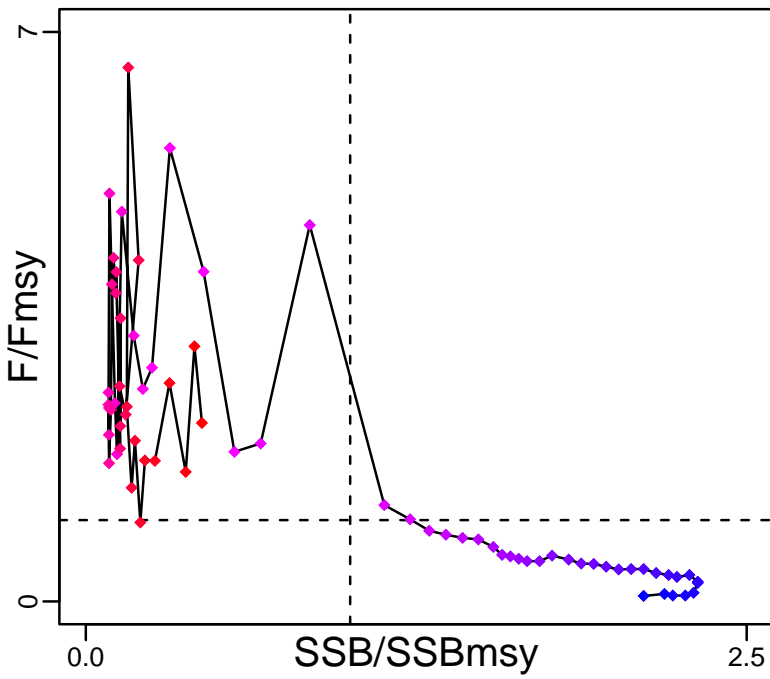
Metadata	
<b>Scientific Name</b>	Lutjanus campechanus
<b>Current Assess ID</b>	SEFSC-RSNAPSATLC-1949-2019-SISIMP2022
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2019, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2010	13,632
<b>SSBmsy</b>	SSBmsy-E00eggs	2019	$6.35 \times 10^{13}$
<b>Fmsy</b>	Fmsy-1/yr	2019	0.206
<b>ERmsy</b>	ERmsy-calc-ratio	2010	0.061
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2019	184
<b>M</b>	M-1/yr	2010	0.08
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2014	$2.46 \times 10^{13}$
<b>Flim</b>	Flim-1/yr	2014	0.146
<b>ERlim</b>	-	-	-

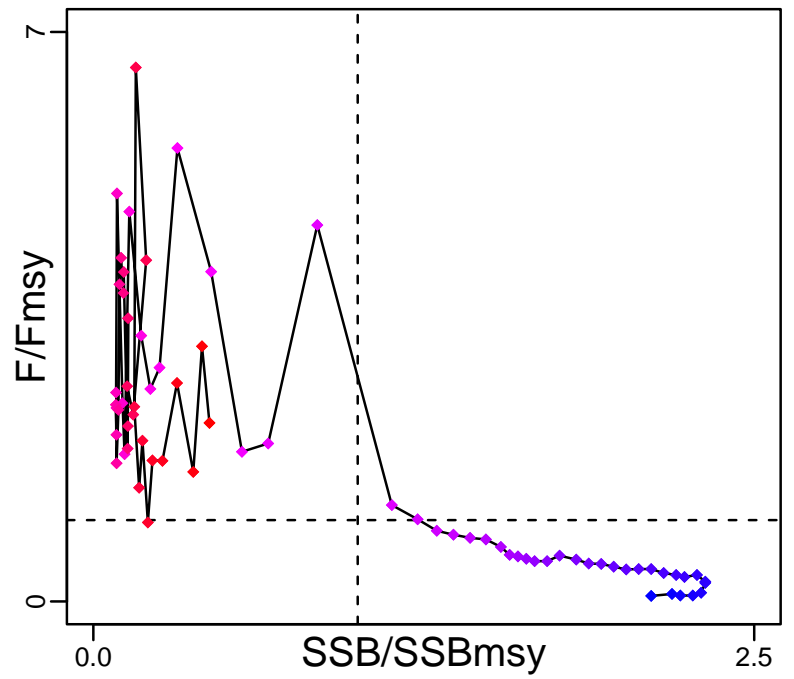
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	1430	-	-
<b>SSB</b>	SSB-E00eggs	2019	$2.79 \times 10^{13}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	1,212,587	-	1
<b>F</b>	F-1/yr	2019	0.452	-	-
<b>ER</b>	ER-calc-ratio	2010	0.335	-	-
<b>TC</b>	TC-MT	2014	330		
<b>TL</b>	TL-MT	2010	653		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2010	0.105		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2019	0.439		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2019	2.194		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2010	5.464		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Red snapper Southern Atlantic coast [RSNAPSATLC]

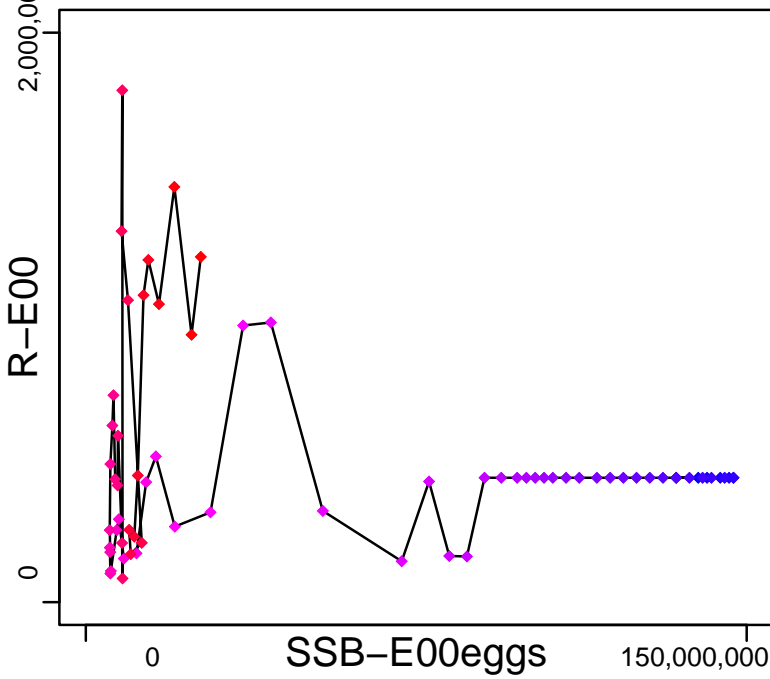
Kobe MSYpref (1949–2019–SISIMP2022)



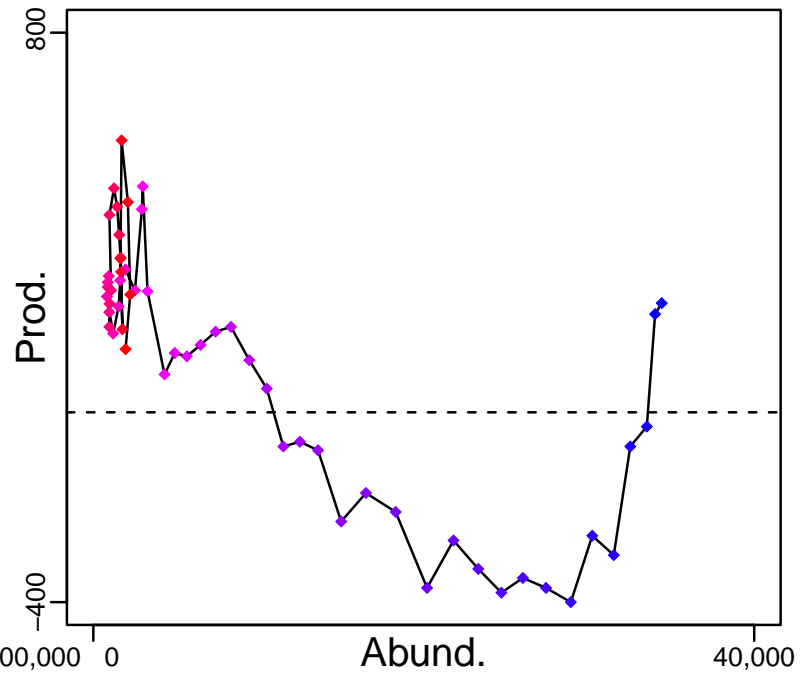
Kobe MGTpref (1949–2019–SISIMP2022)



Spawner Recruit (1949–2019–SISIMP2022)



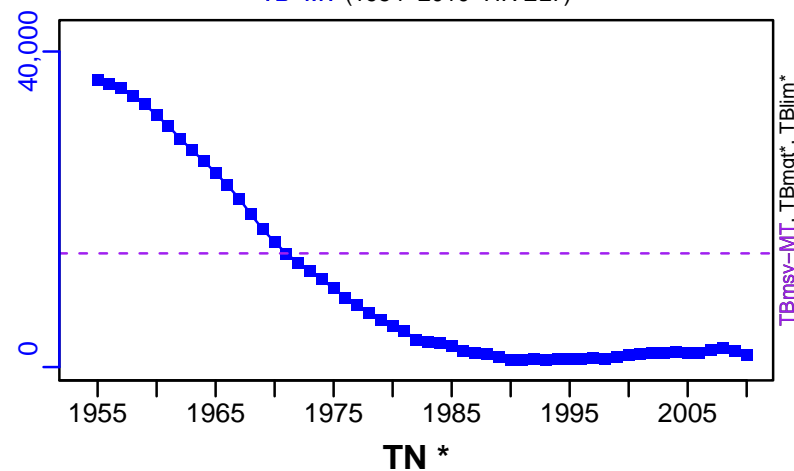
Production (1954–2010–HIVELY)



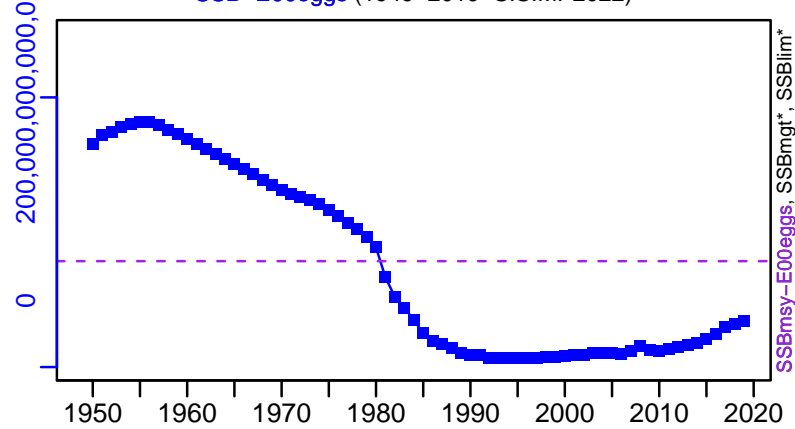
◆ Start Year ◆ End Year \* No Data

# Red snapper Southern Atlantic coast [RSNAPSATLC]

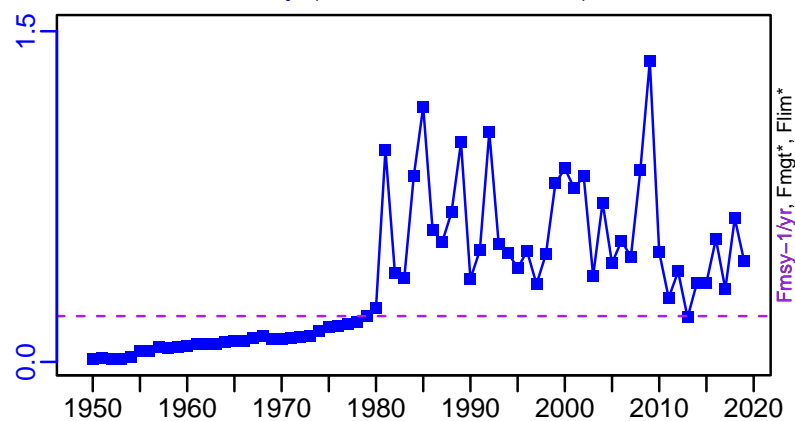
TB-MT (1954-2010-HIVELY)



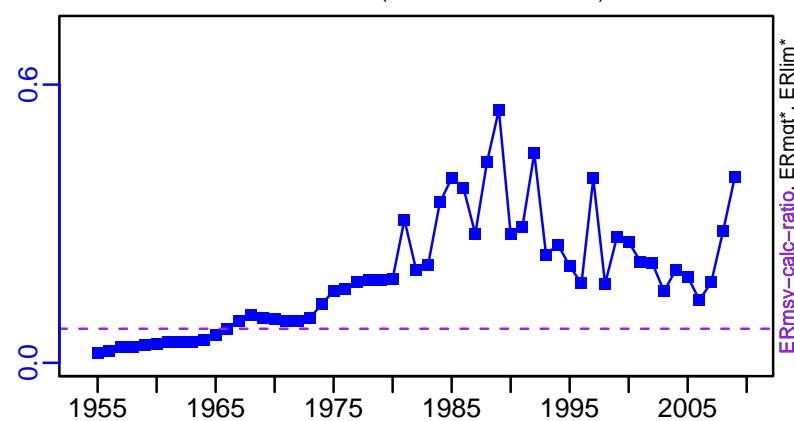
SSB-E00eggs (1949-2019-SISIMP2022)



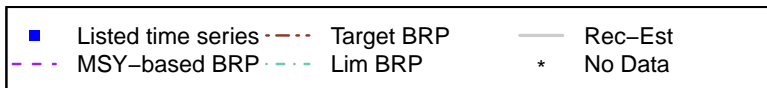
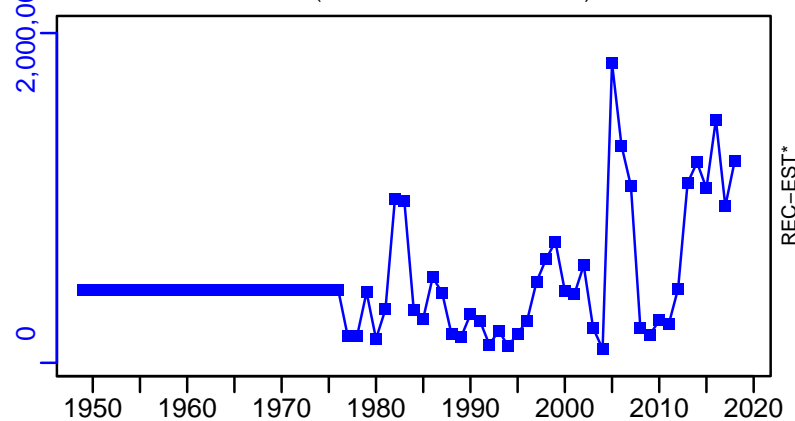
F-1/yr (1949-2019-SISIMP2022)



ER-calc-ratio (1954-2010-HIVELY)

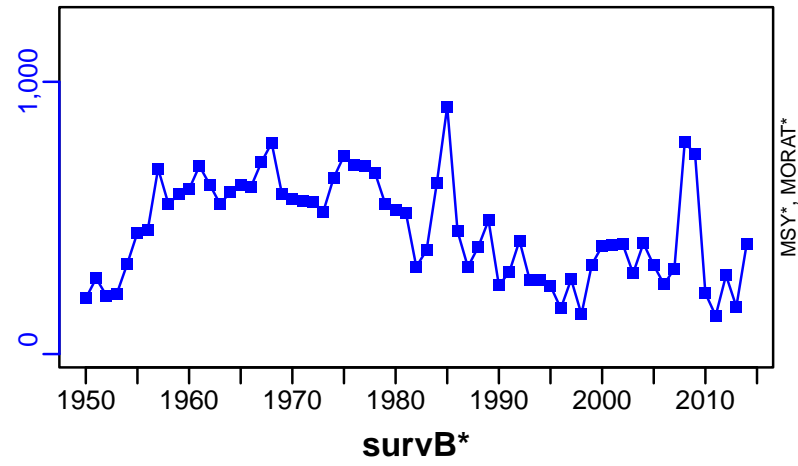


R-E00 (1949-2019-SISIMP2022)

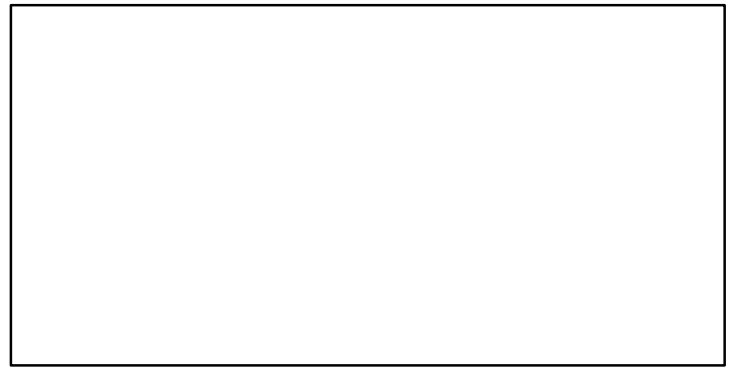


# Red snapper Southern Atlantic coast [RSNAPSATLC]

TC-MT, TL\*, RecC\* (1950–2014–SISIMP2016)



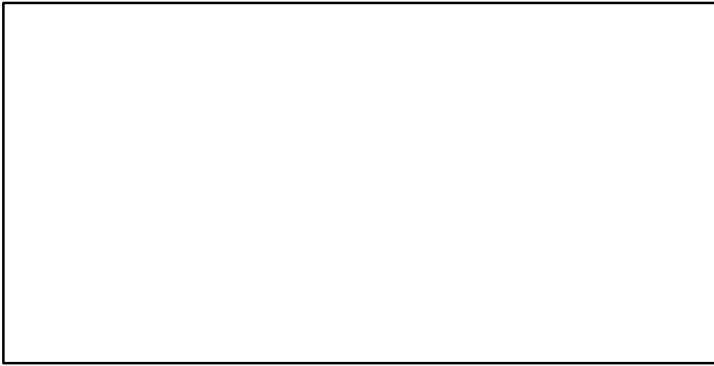
TAC\*, Cpair\*, Cadv\*



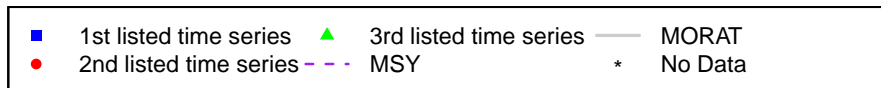
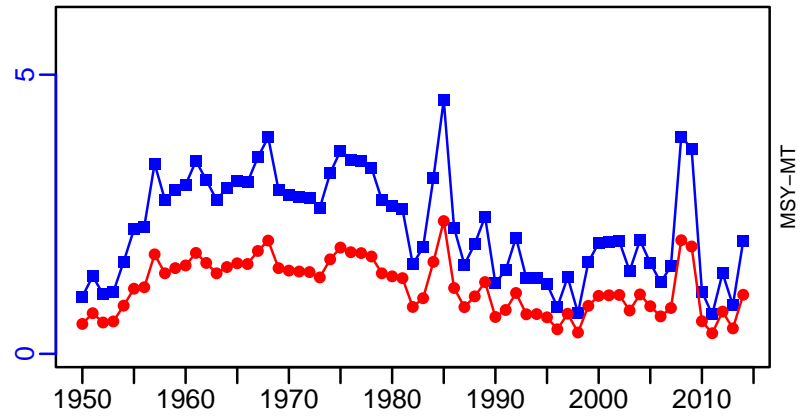
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2014–SISIMP2016)



## Seabreams spp North West Africa Morocco [SBMSPPNWAMAR]

Metadata	
<b>Scientific Name</b>	Sparus spp
<b>Current Assess ID</b>	FAO-DR-SBMSPPNWAMAR-1990-2016-ASHBROOK
<b>Area</b>	North West Africa Morocco
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	4138		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

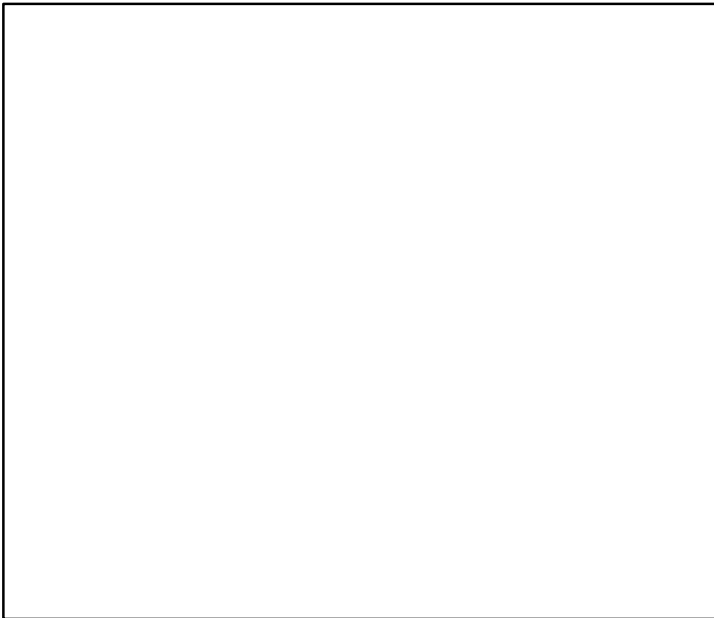
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



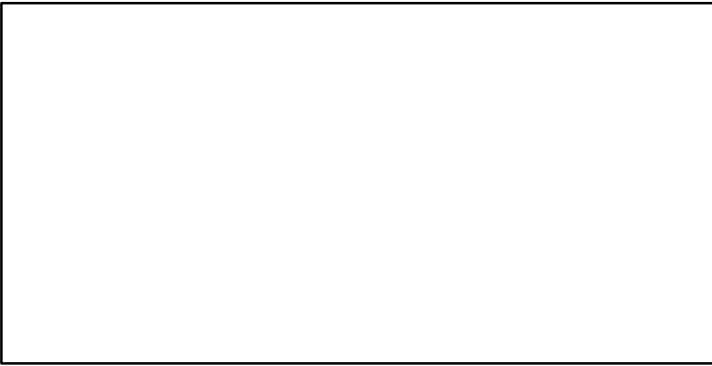
**Production\***



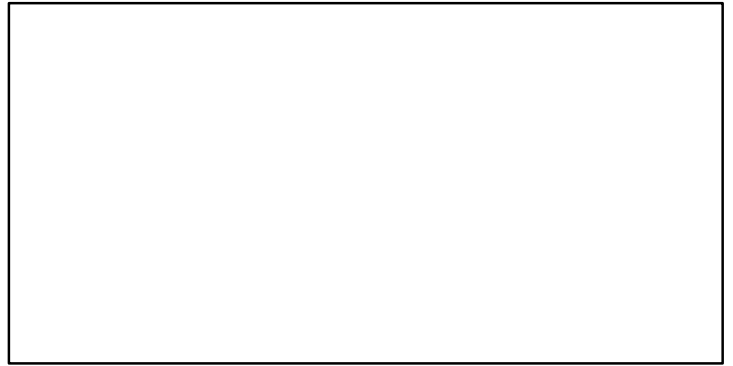
◆ Start Year ◆ End Year \* No Data

Seabreams spp North West Africa Morocco [SBMSPPNWAMAR]

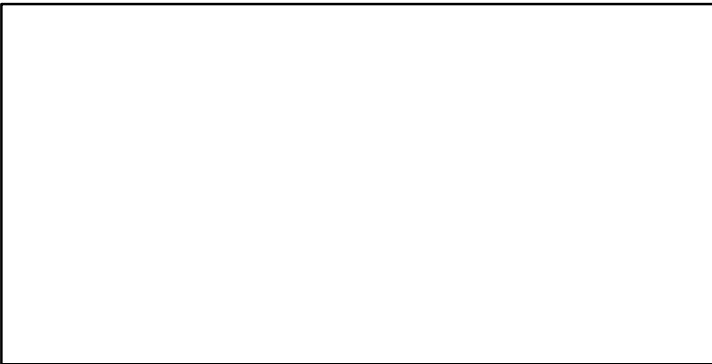
**TB\***



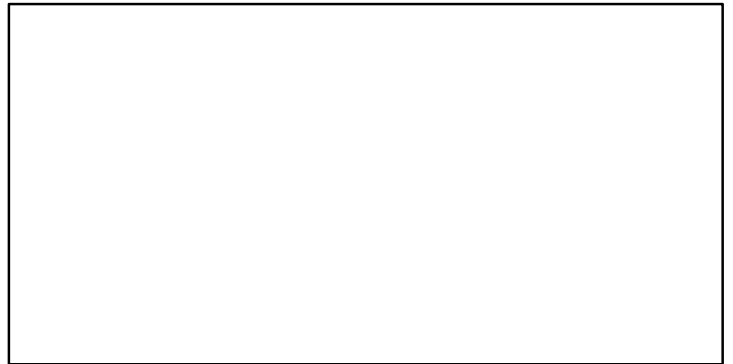
**SSB\***



**TN \***



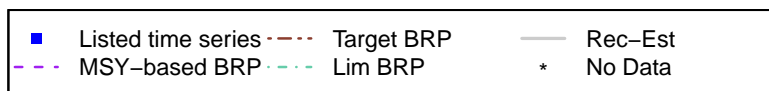
**F\***



**ER\***

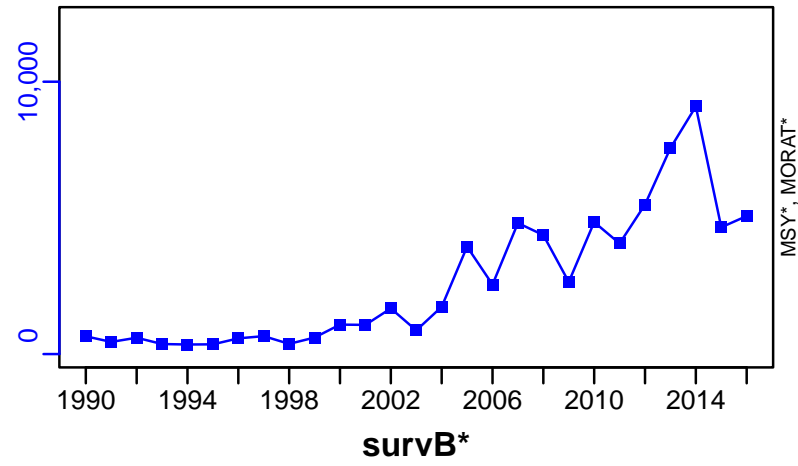


**Recruits\***

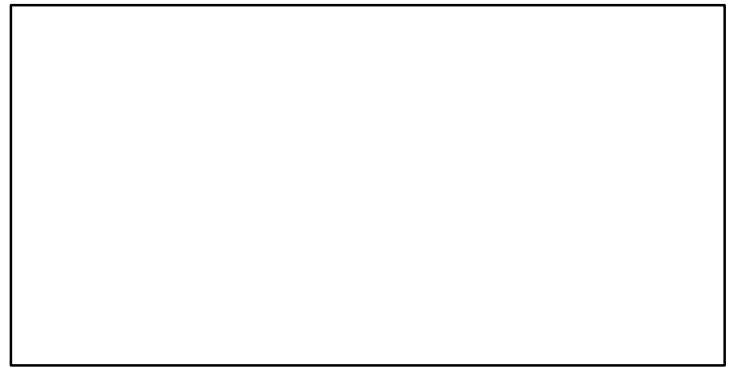


# Seabreams spp North West Africa Morocco [SBMSPPNWAMAR]

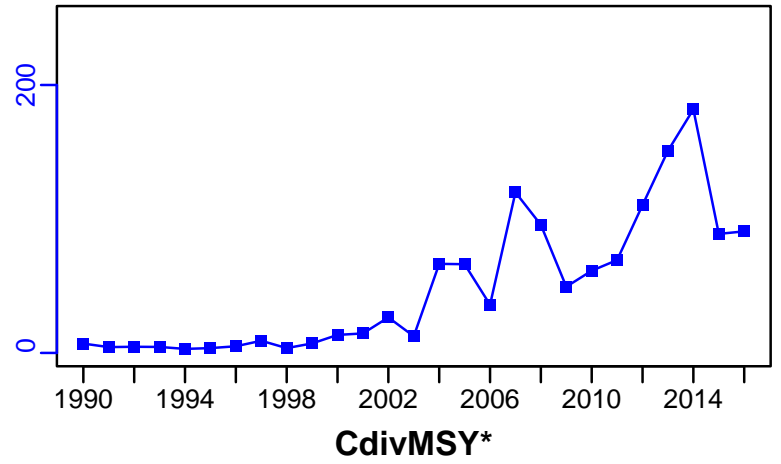
TC-MT, TL\*, RecC\* (1990-2016-ASHBROOK)



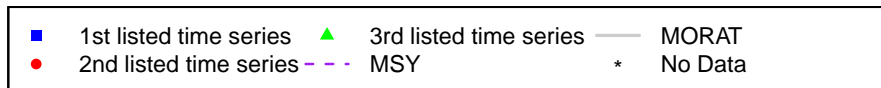
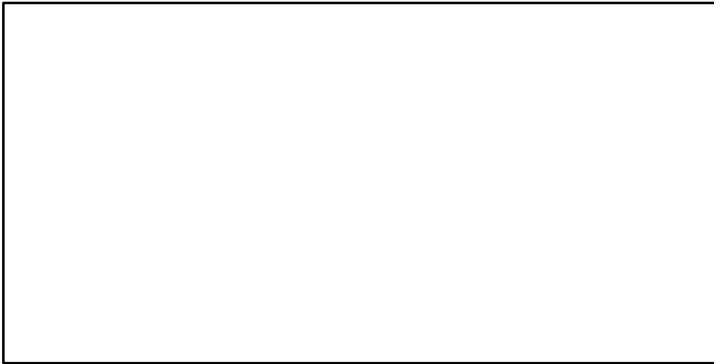
TAC\*, Cpair\*, Cadv\*



CPUE-index (1990-2016-ASHBROOK)



EFFORT\*





## Deepwater cardinalfish Chile [SBREAMCH]

Metadata	
<b>Scientific Name</b>	Epigonus crassicaudus
<b>Current Assess ID</b>	SPRFMO-SBREAMCH-1989-2011-CHING
<b>Area</b>	Chile
<b>Management Authority</b>	South Pacific Regional Fisheries Management Organization
<b>Assessor</b>	South Pacific Regional Fisheries Management Organization
<b>Asmts in RAM</b>	2011

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	920	-	-
SSB	SSB-MT	2011	607	-	-
TN	-	-	-	-	-
R	R-E00	2011	553,000	-	-
F	F-1/yr	2011	12.2	-	-
ER	ER-calc-ratio	2011	0.097	-	-
TC	-	-	-		
TL	TL-MT	2011	89		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

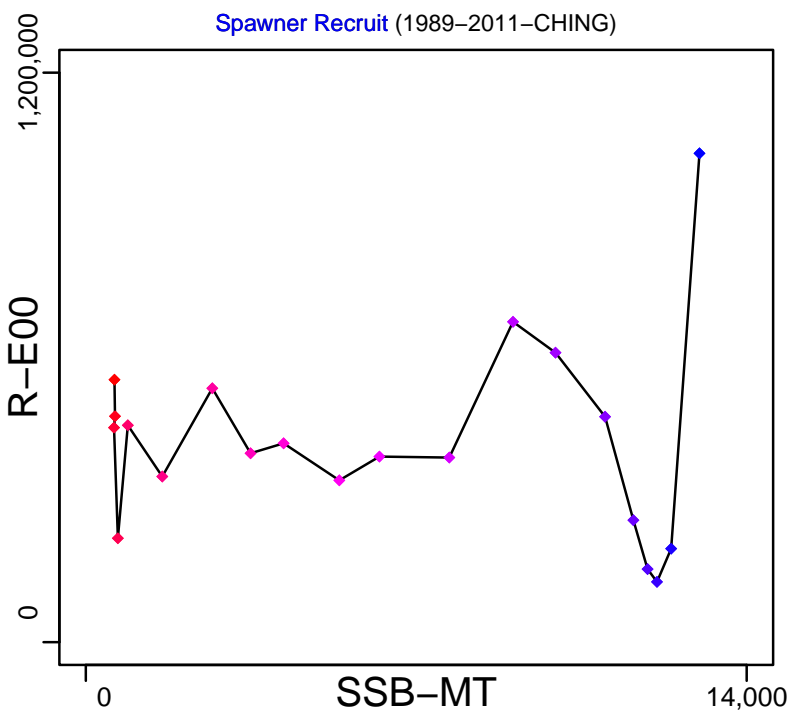
Kobe MSY\*



Kobe MGT\*



Spawner Recruit (1989–2011–CHING)



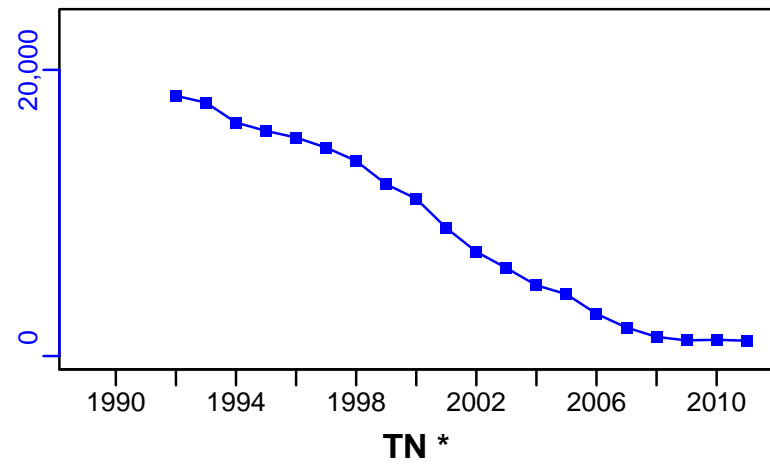
Production\*



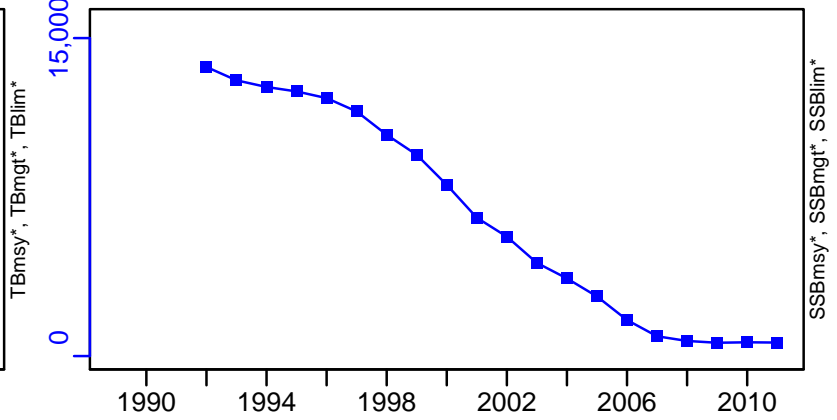
◆ Start Year ◆ End Year \* No Data

# Deepwater cardinalfish Chile [SBREAMCH]

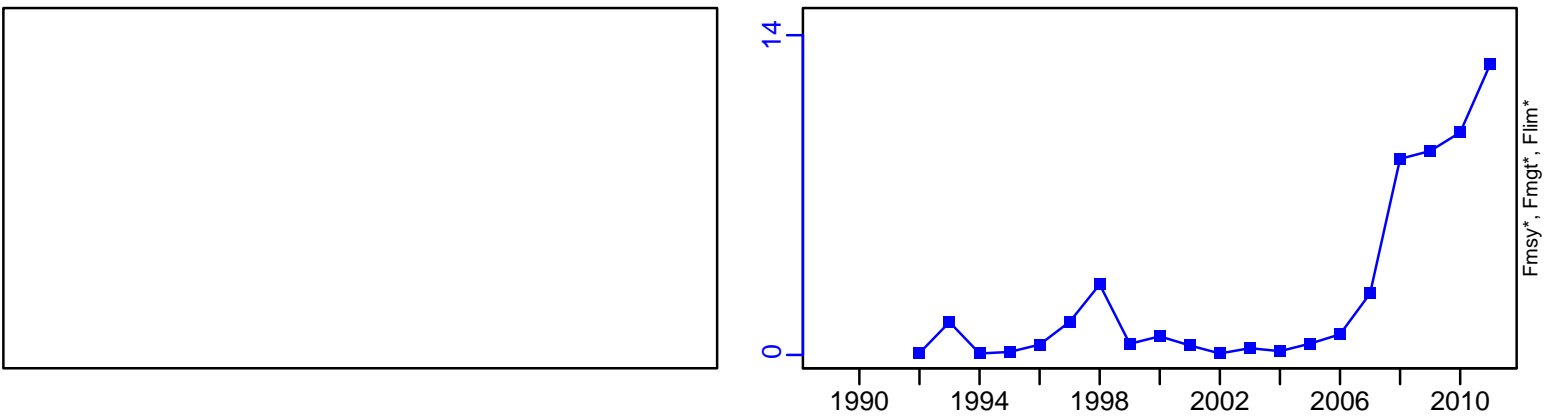
TB-MT (1989–2011–CHING)



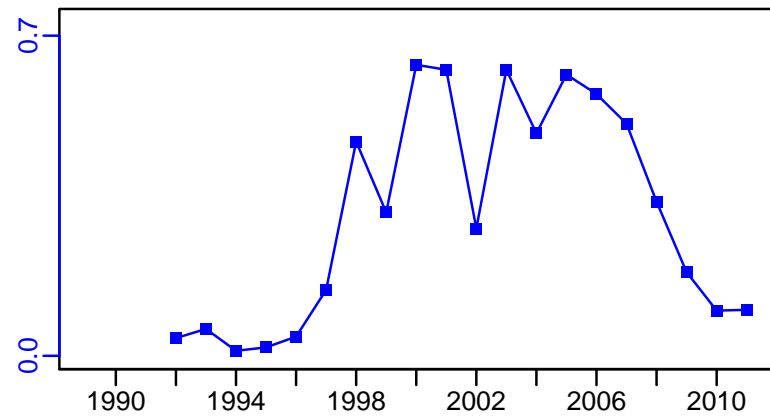
SSB-MT (1989–2011–CHING)



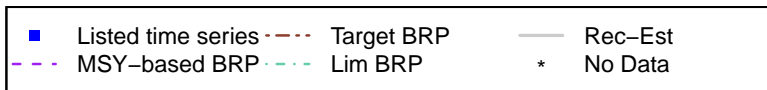
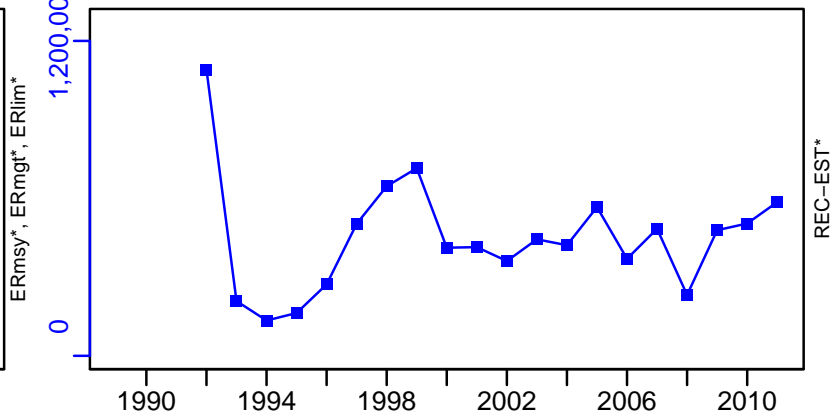
F-1/yr (1989–2011–CHING)



ER-calc-ratio (1989–2011–CHING)



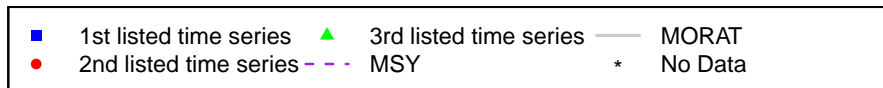
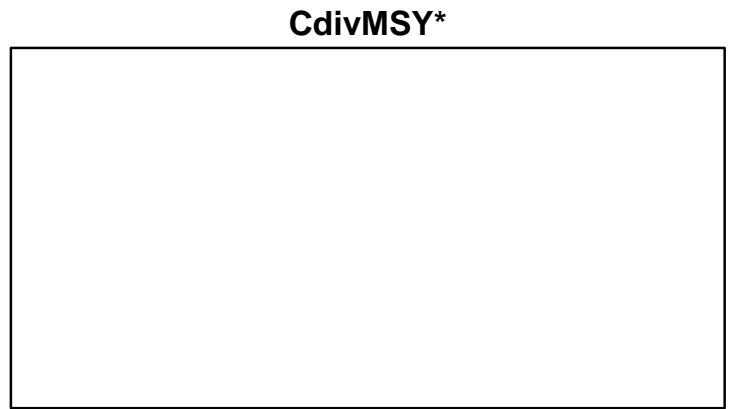
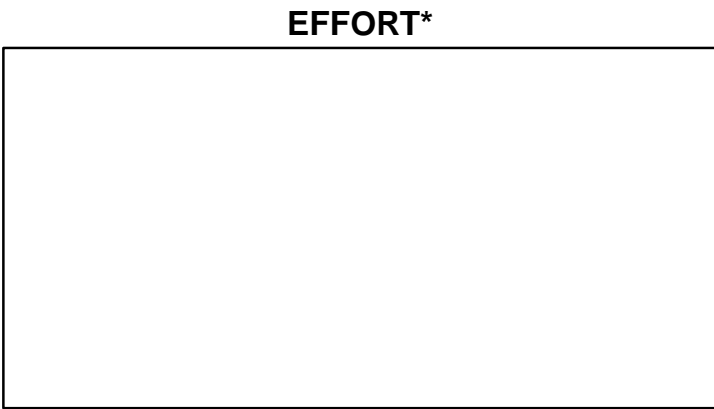
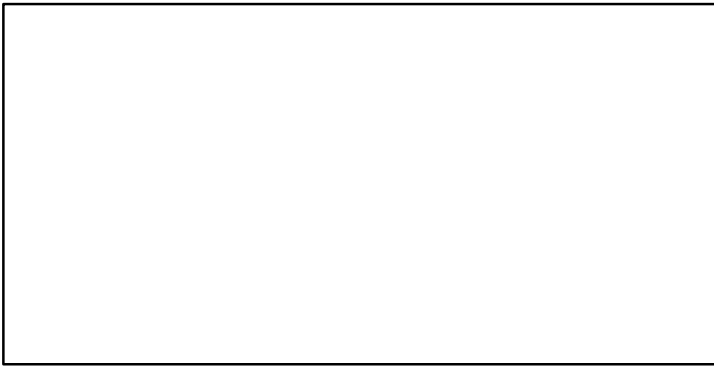
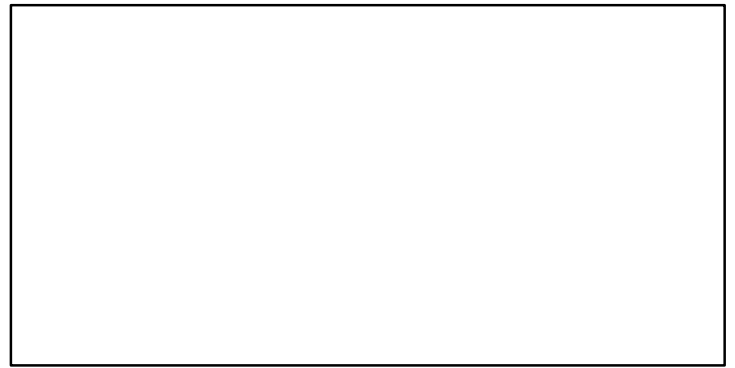
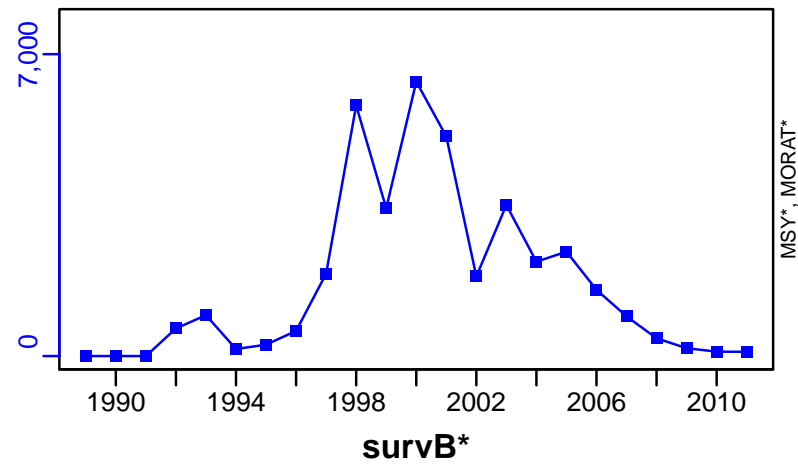
R-E00 (1989–2011–CHING)



# Deepwater cardinalfish Chile [SBREAMCH]

TL-MT, TC\*, RecC\* (1989-2011-CHING)

TAC\*, Cpair\*, Cadv\*



## Scup Northwestern Atlantic Coast [SCUPNWATLC]

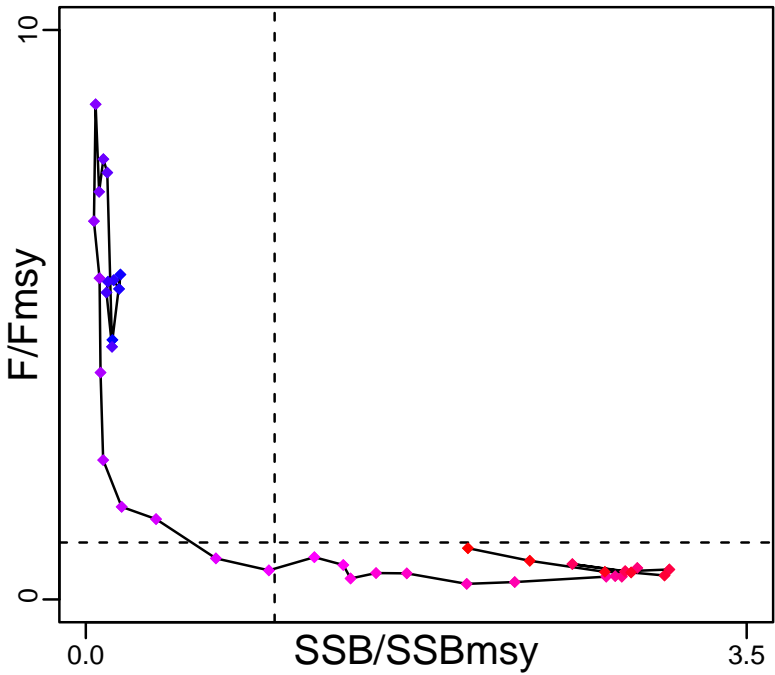
Metadata	
<b>Scientific Name</b>	Stenotomus chrysops
<b>Current Assess ID</b>	NEFSC-SCUPNWATLC-1984-2022-SISIMP2024
<b>Area</b>	Northwestern Atlantic Coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Northeast Fisheries Science Center
<b>Asmts in RAM</b>	2007, 2016, 2018, 2019, 2014, 2022

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2022	78,593
<b>Fmsy</b>	Fmsy-1/yr	2022	0.19
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2022	11,959
<b>M</b>	M-1/yr	2007	0.2
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2022	39,296
<b>Flim</b>	Flim-1/yr	2019	0.2
<b>ERlim</b>	-	-	-

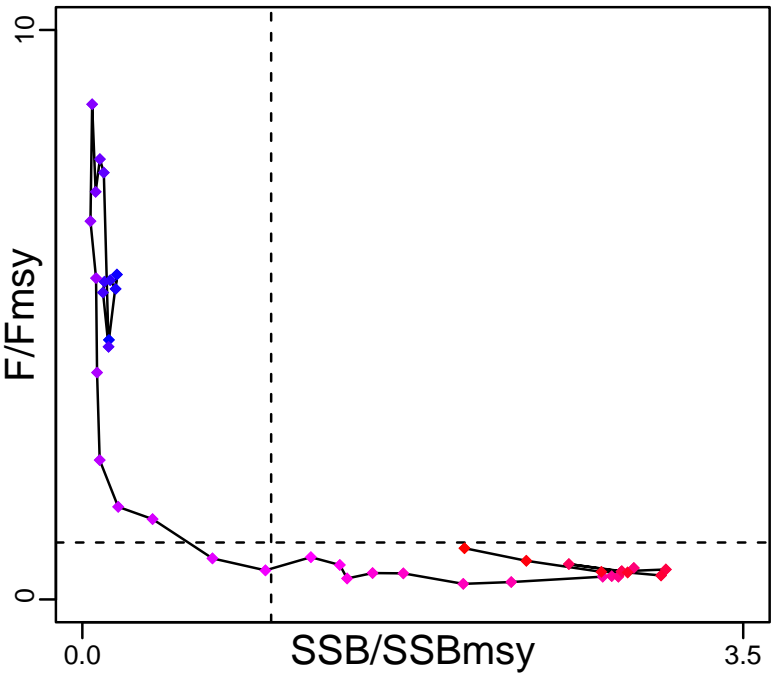
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2022	159,050	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2022	106,037	-	0
<b>F</b>	F-1/yr	2022	0.171	-	4+
<b>ER</b>	ER-ratio	2007	0.029	-	-
<b>TC</b>	TC-MT	2022	16,291		
<b>TL</b>	TL-MT	2007	4200		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2022	2.024		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2022	0.9		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Scup Northwestern Atlantic Coast [SCUPNWATLC]

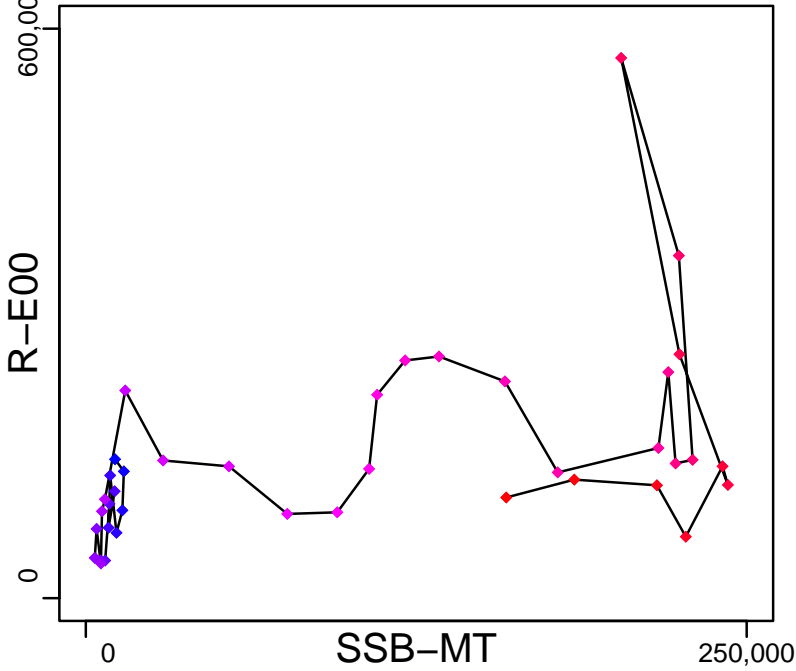
Kobe MSYpref (1984–2022–SISIMP2024)



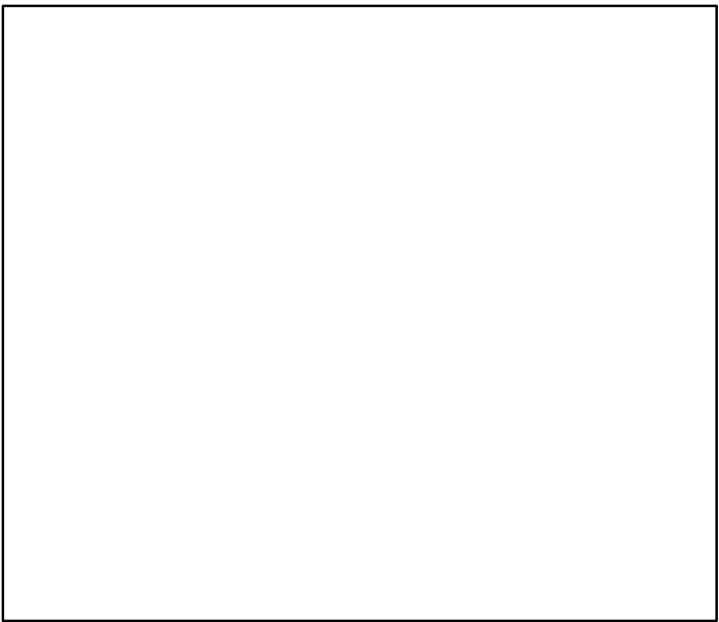
Kobe MGTpref (1984–2022–SISIMP2024)



Spawner Recruit (1984–2022–SISIMP2024)



Production\*



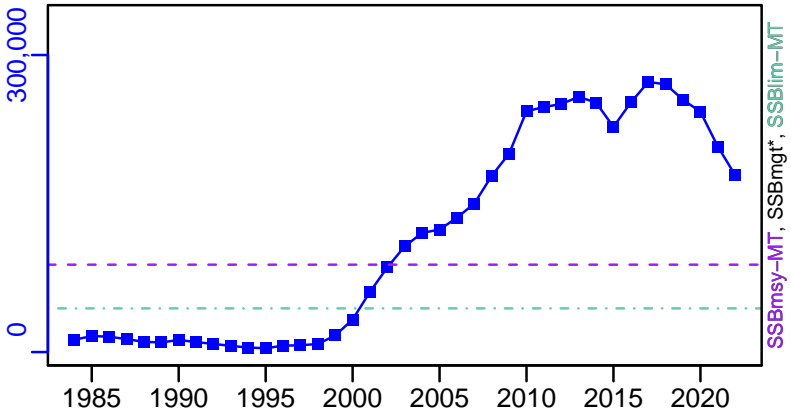
◆ Start Year ◆ End Year \* No Data

Scup Northwestern Atlantic Coast [SCUPNWATLC]

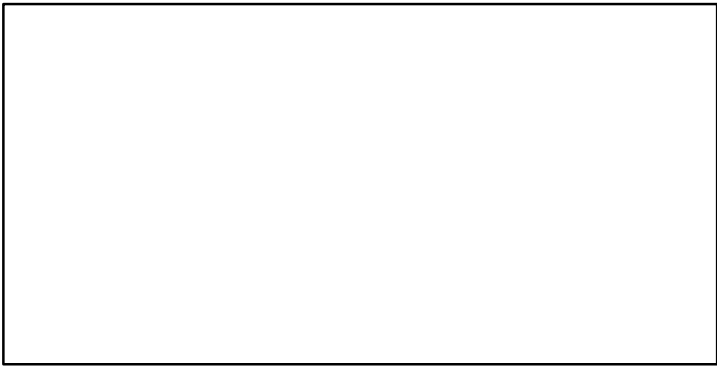
TB\*



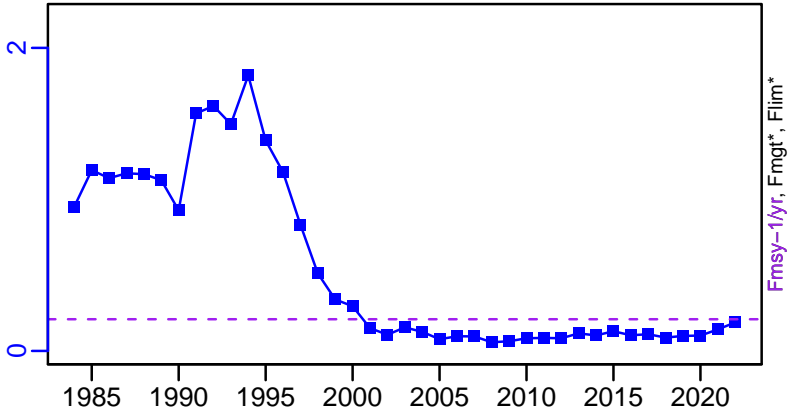
SSB-MT (1984–2022–SISIMP2024)



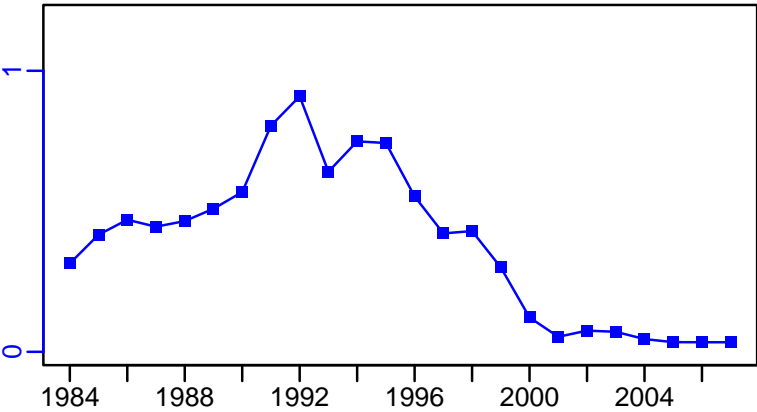
TN \*



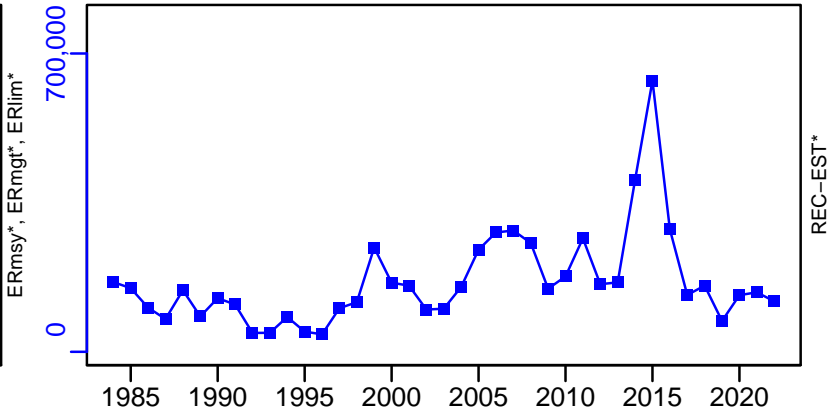
F-1/yr (1984–2022–SISIMP2024)



ER-ratio (1960–2007–TERCEIRO)

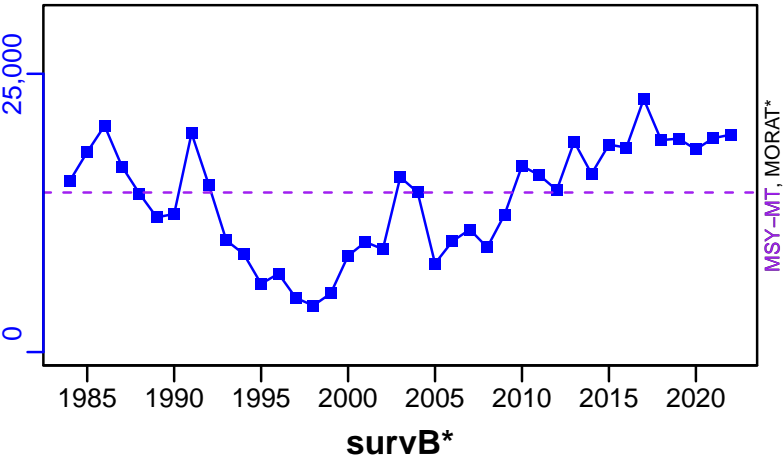


R-E00 (1984–2022–SISIMP2024)



Scup Northwestern Atlantic Coast [SCUPNWATLC]

TC-MT, TL\*, RecC\* (1984-2022-SISIMP2024)

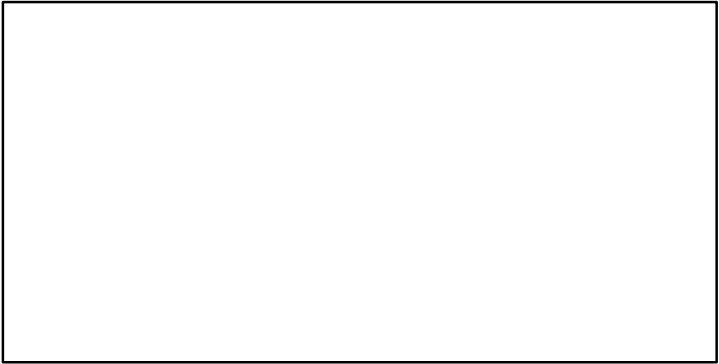
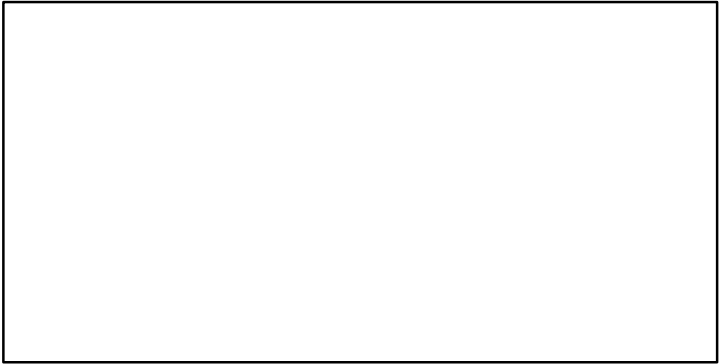


TAC\*, Cpair\*, Cadv\*

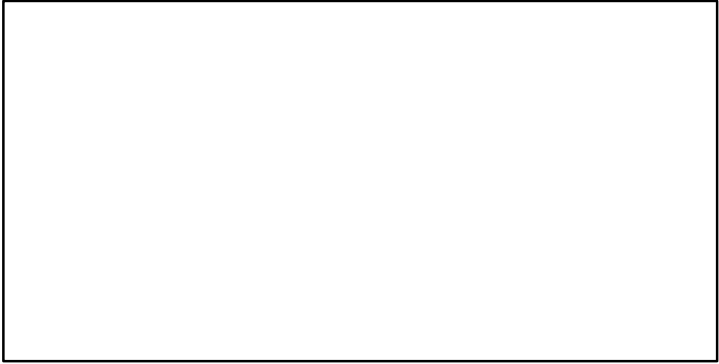


survB\*

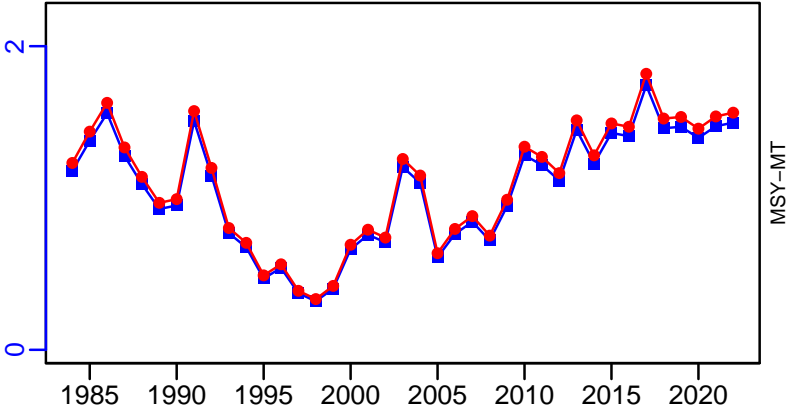
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1984-2022-SISIMP2024)





## Silk snapper Caribbean [SKSNAPCARIB]

Metadata	
<b>Scientific Name</b>	Lutjanus vivanus
<b>Current Assess ID</b>	SEFSC-SKSNAPCARIB-1983-2009-SISIMP2016
<b>Area</b>	Caribbean
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2009

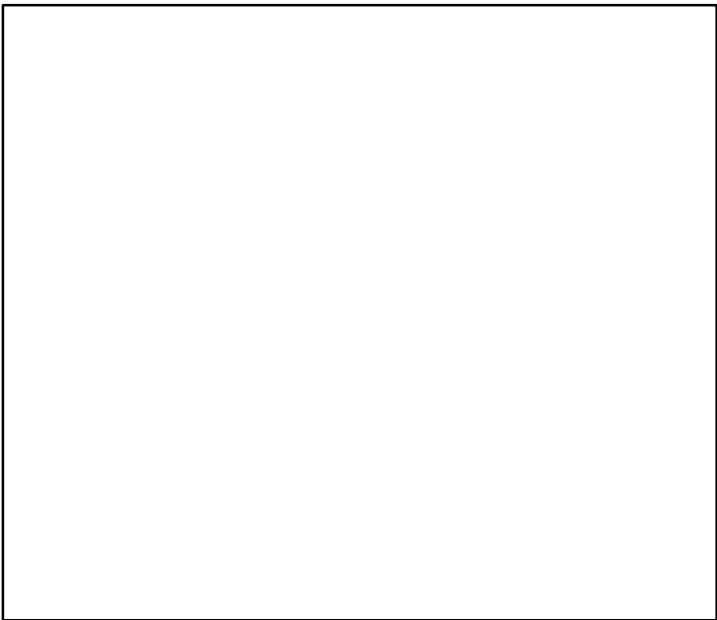
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2009	38		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

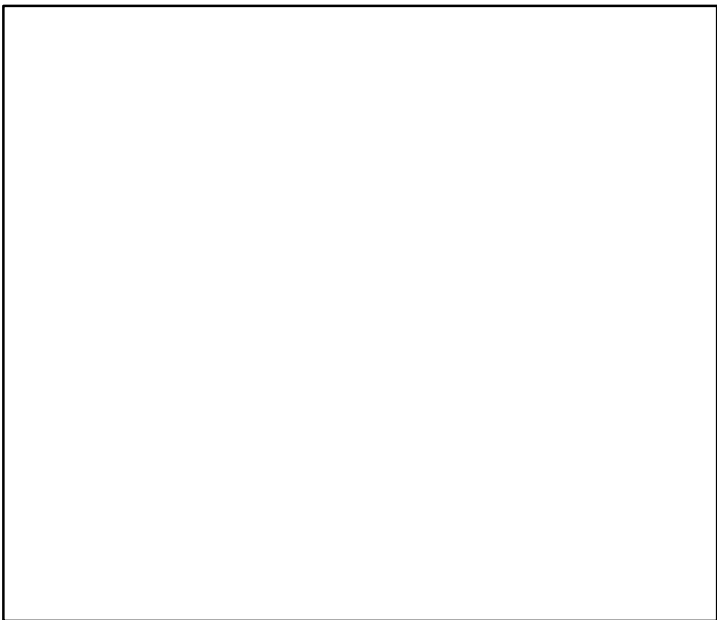
Kobe MSY\*



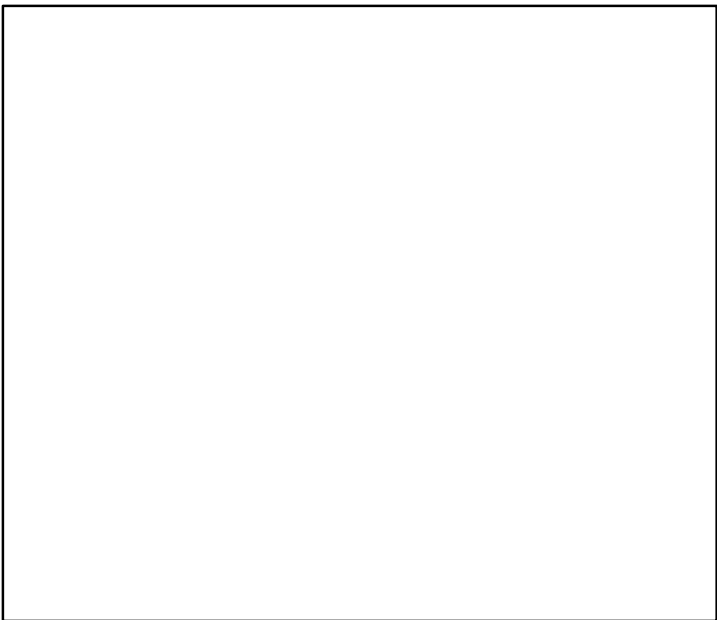
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Silk snapper Caribbean [SKSNAPCARIB]

TB\*



SSB\*



TN \*



F\*



ER\*

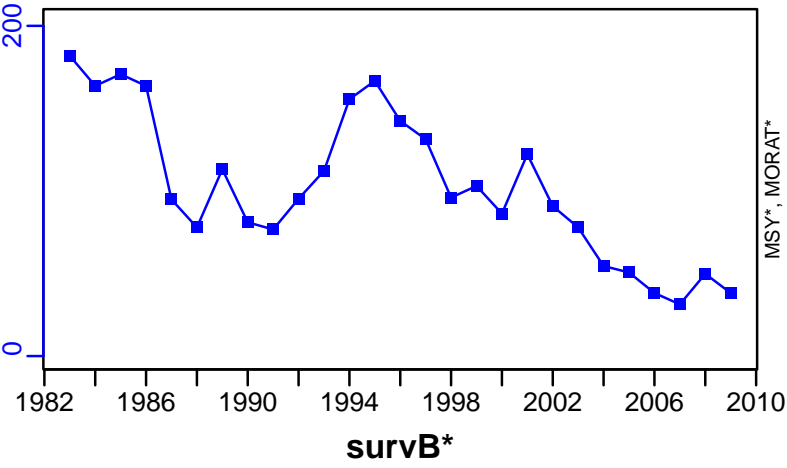


Recruits\*

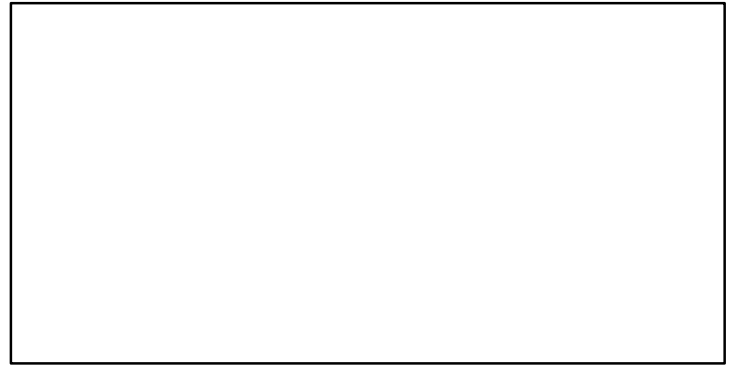


Silk snapper Caribbean [SKSNAPCARIB]

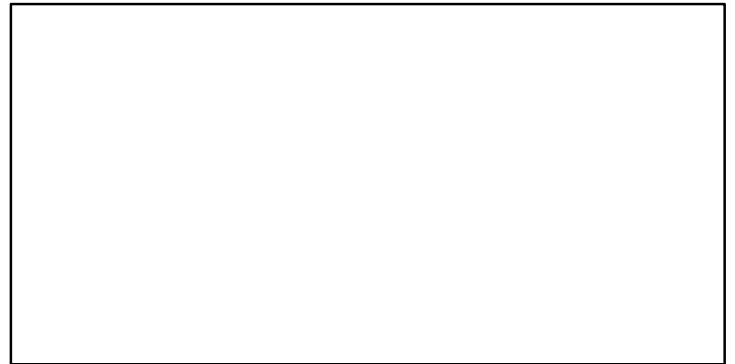
TC-MT, TL\*, RecC\* (1983-2009-SISIMP2016)



TAC\*, Cpair\*, Cadv\*



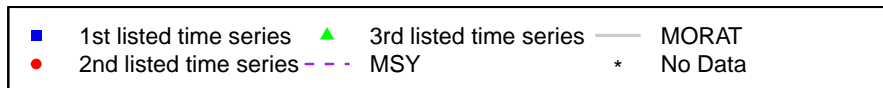
CPUE\*



EFFORT\*



CdivMSY\*



## Surmullet Malta Island and South of Sicily (GSA 15, 16) [SMULLMEDGSA15-16]

Metadata	
<b>Scientific Name</b>	Mullus surmuletus
<b>Current Assess ID</b>	STECF-SMULLMEDGSA15-16-2002-2012-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

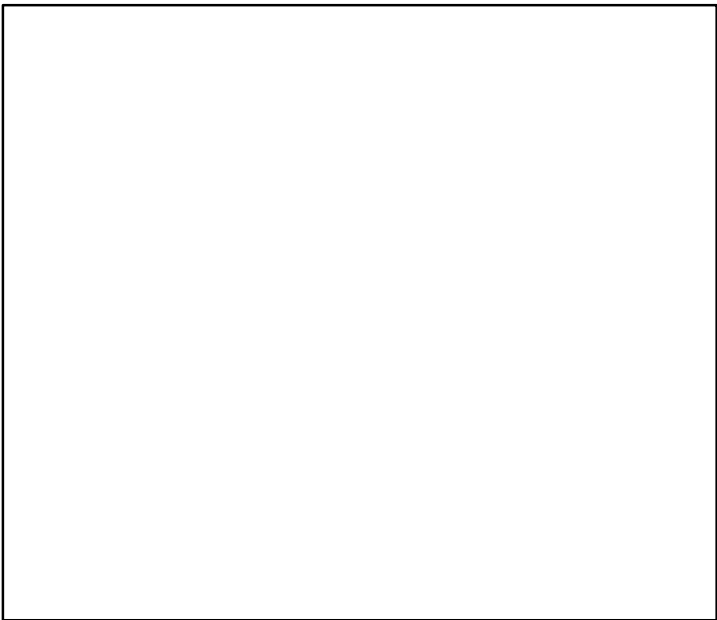
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2012	0.19
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	2460	-	2+
TN	-	-	-	-	-
R	R-E00	2012	$4.2 \times 10^7$	-	-
F	F-1/yr	2012	0.78	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	753		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	4.105		
ER/ERmgt	-	-	-		

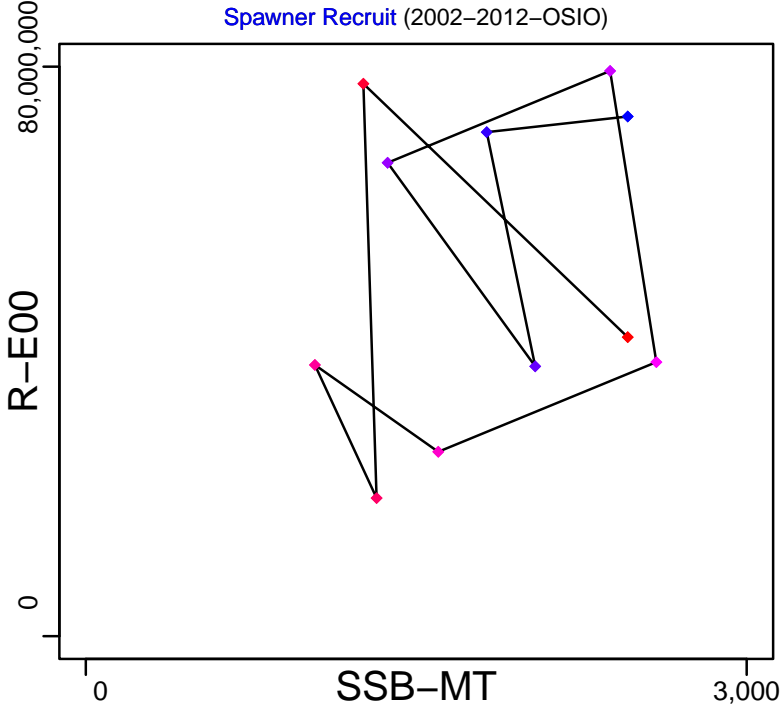
Kobe MSY\*



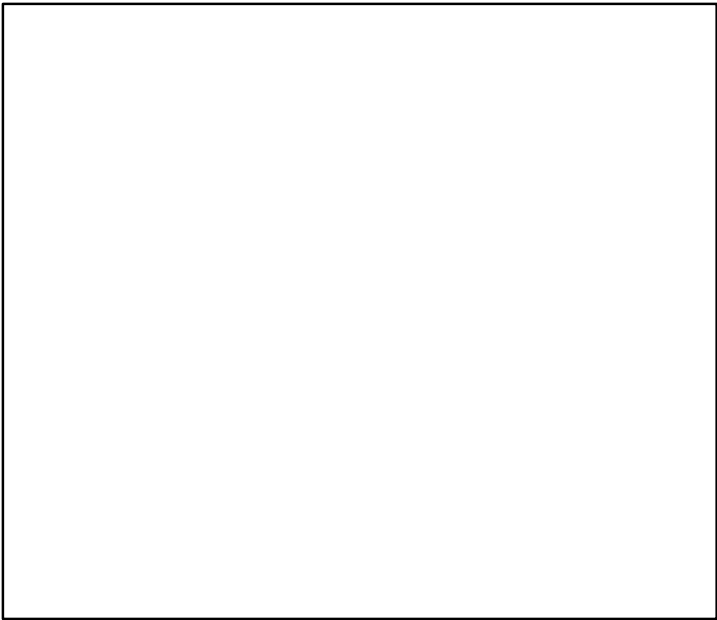
Kobe MGT\*



Spawner Recruit (2002-2012-OSIO)

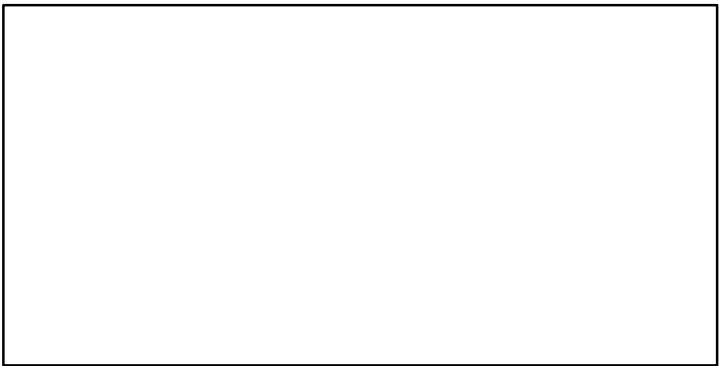


Production\*

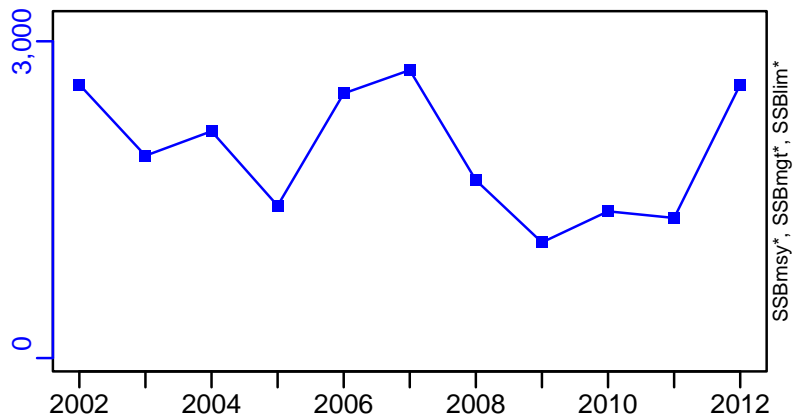


◆ Start Year ◆ End Year \* No Data

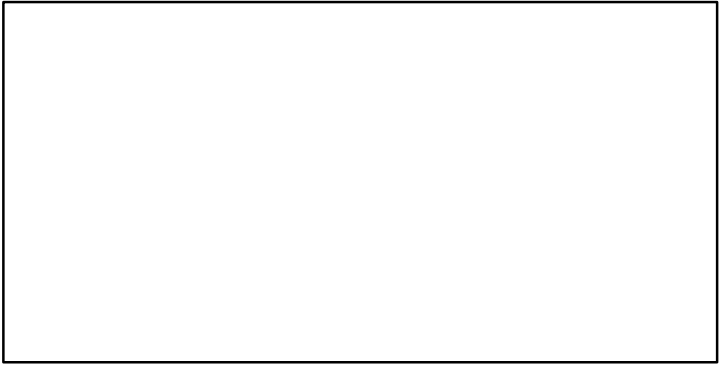
TB\*



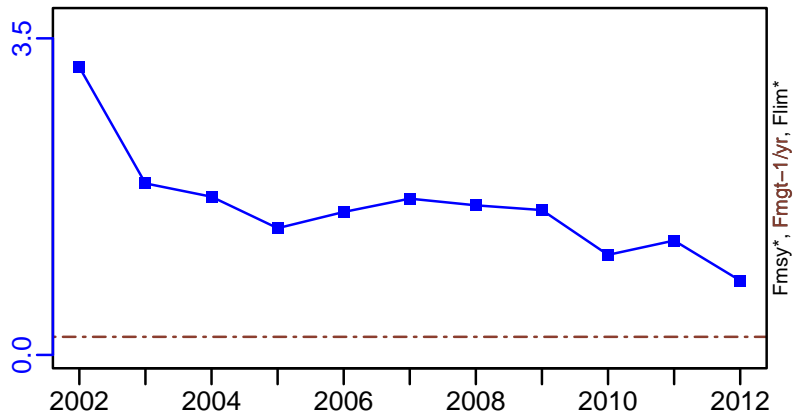
SSB-MT (2002-2012-OSIO)



TN \*



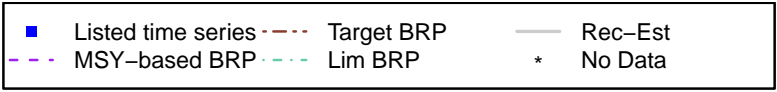
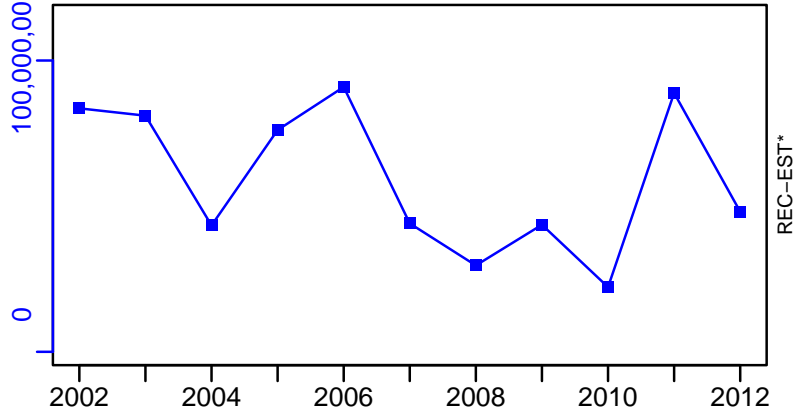
F-1/yr (2002-2012-OSIO)



ER\*

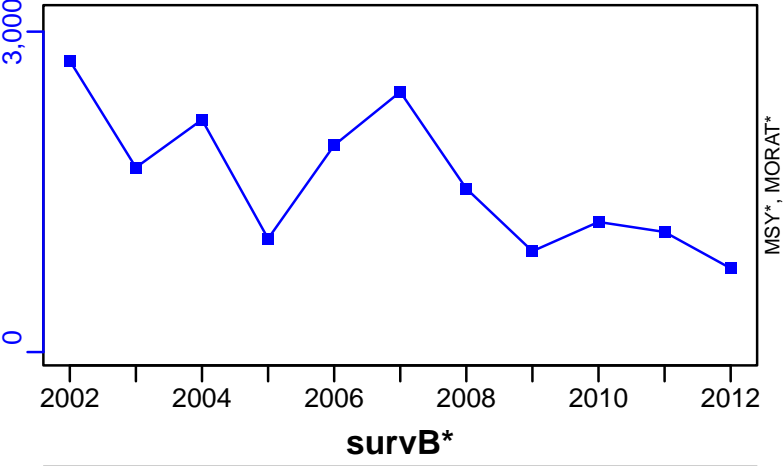


R-E00 (2002-2012-OSIO)



Surmullet Malta Island and South of Sicily (GSA 15, 16) [SMULLMEDGSA15-16]

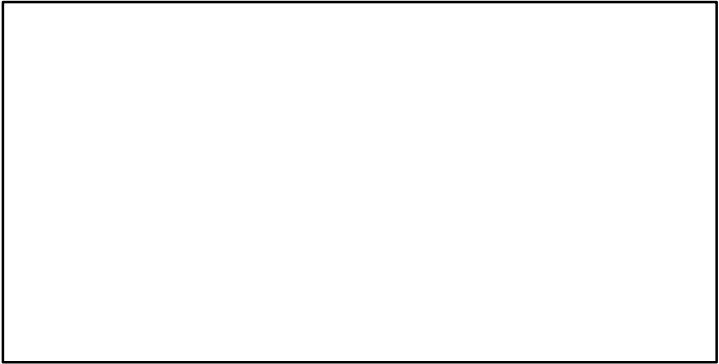
TC-MT, TL\*, RecC\* (2002-2012-OSIO)



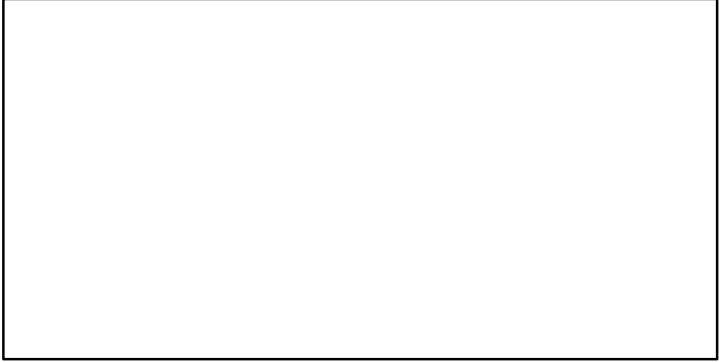
TAC\*, Cpair\*, Cadv\*



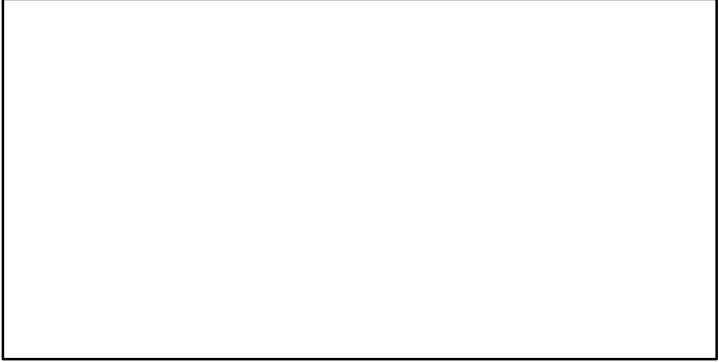
CPUE\*



EFFORT\*



CdivMSY\*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

\* No Data

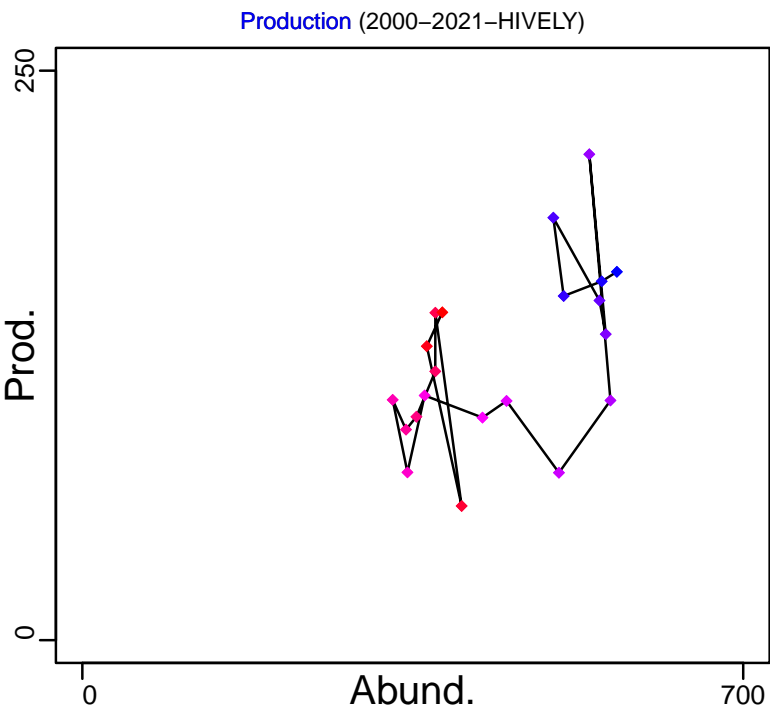
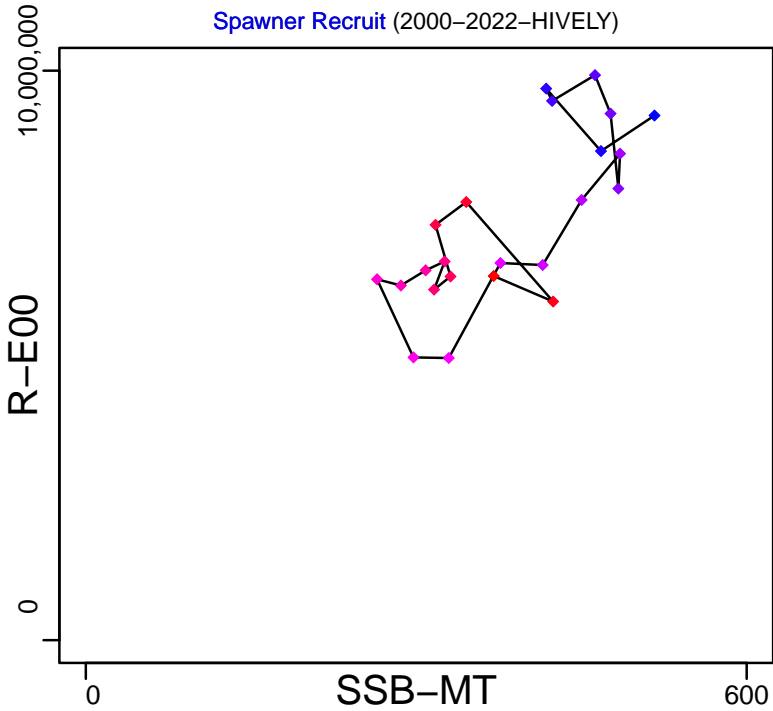
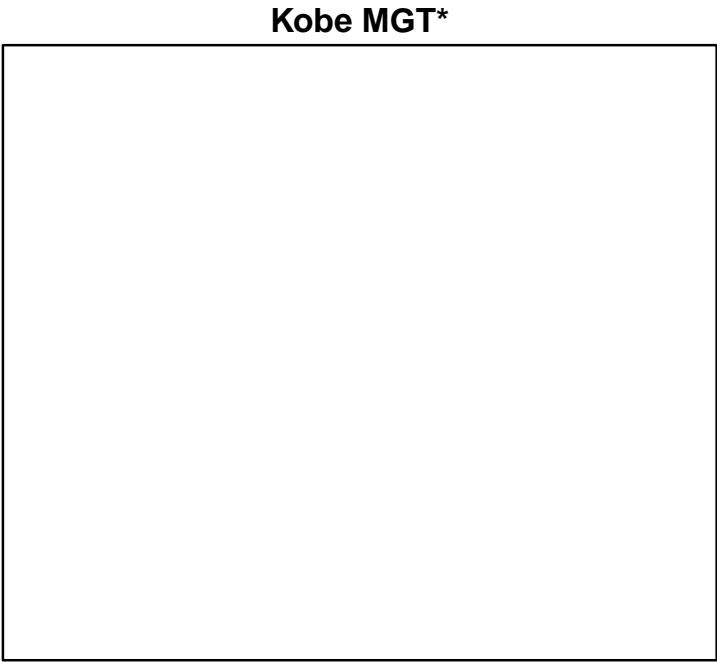
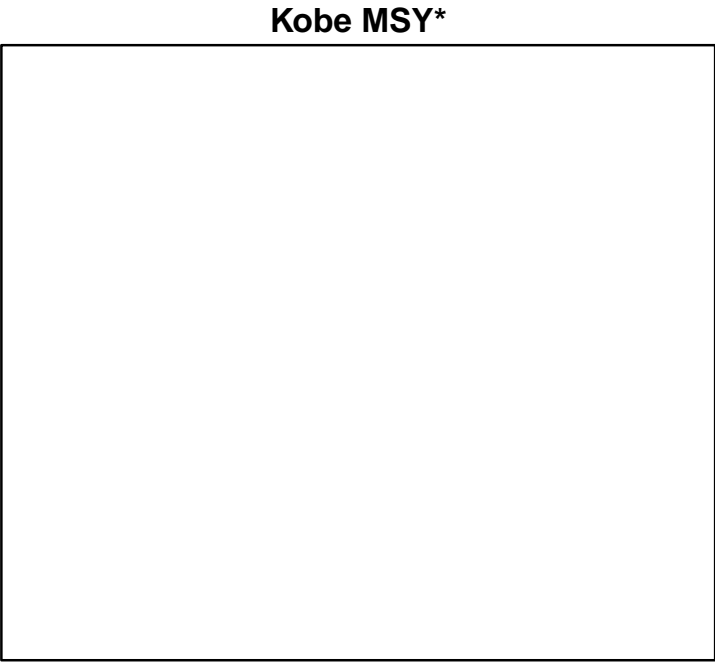


## Surmullet Balearic Island [SMULLMEDGSA5]

Metadata	
<b>Scientific Name</b>	Mullus surmuletus
<b>Current Assess ID</b>	WGSAD-SMULLMEDGSA5-2000-2022-HIVELY
<b>Area</b>	Balearic Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Working Group on Stock Assessment of Demersal Species
<b>Asmts in RAM</b>	2012, 2019, 2021, 2022

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2022	0.24
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

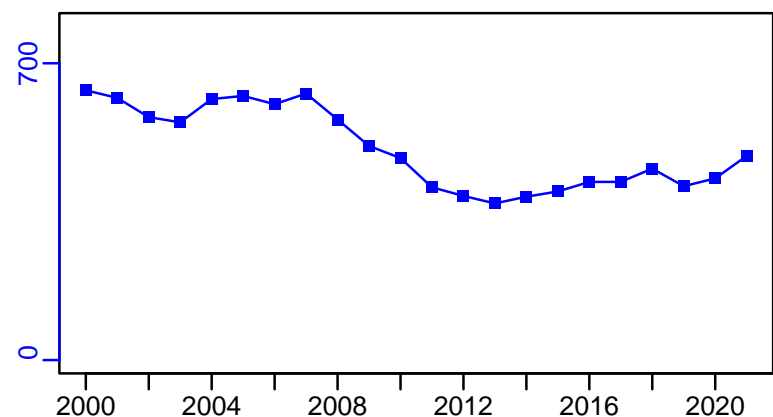
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2021	428	-	-
<b>SSB</b>	SSB-MT	2022	370	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2022	6,393,800	-	-
<b>F</b>	F-1/yr	2022	0.283	-	1 to 3
<b>ER</b>	ER-calc-ratio	2021	0.191	-	-
<b>TC</b>	TC-MT	2022	83		
<b>TL</b>	TL-MT	2022	83		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2022	1.18		
<b>ER/ERmgt</b>	-	-	-		



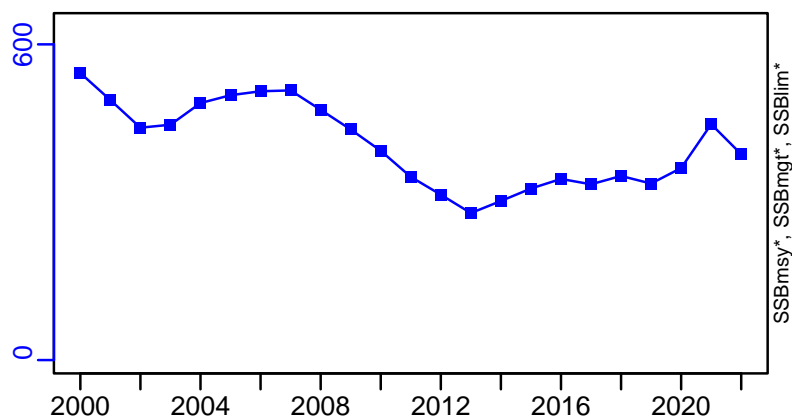
◆ Start Year ◆ End Year \* No Data

# Surmullet Balearic Island [SMULLMEDGSA5]

TB-MT (2000–2021–HIVELY)



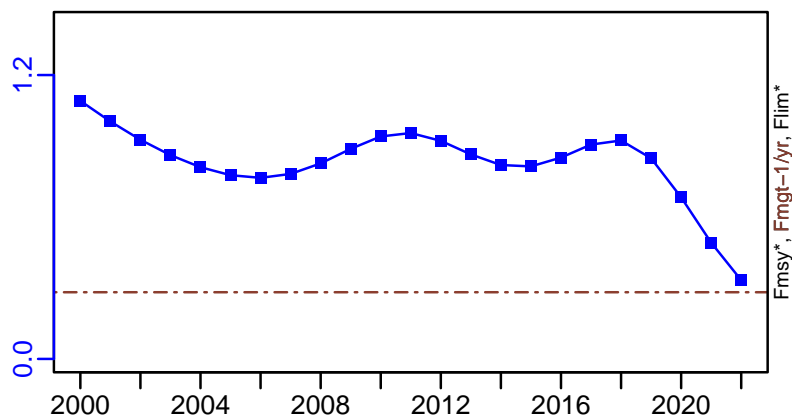
SSB-MT (2000–2022–HIVELY)



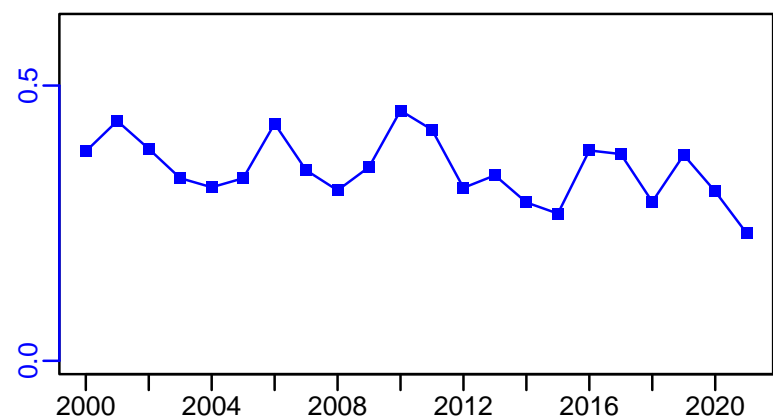
TN \*



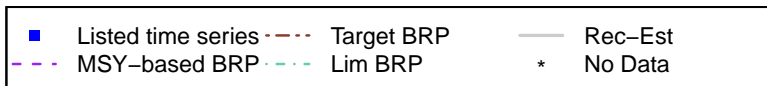
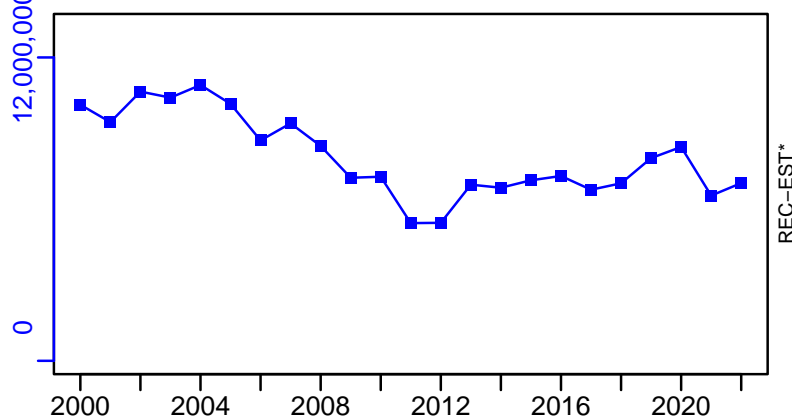
F-1/yr (2000–2022–HIVELY)



ER-calc-ratio (2000–2021–HIVELY)

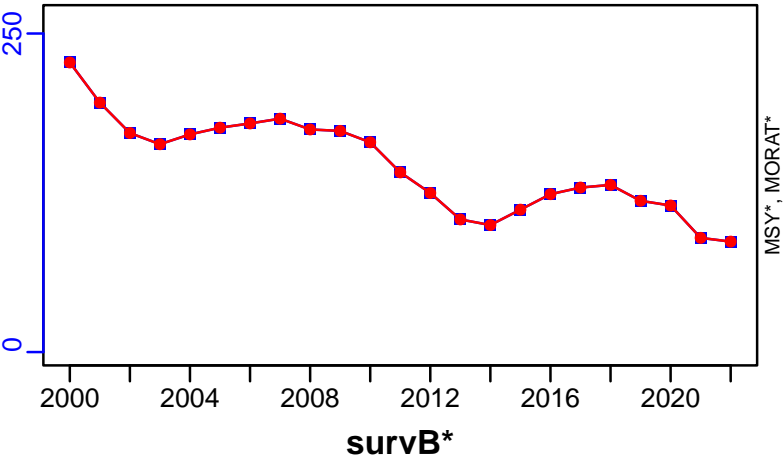


R-E00 (2000–2022–HIVELY)

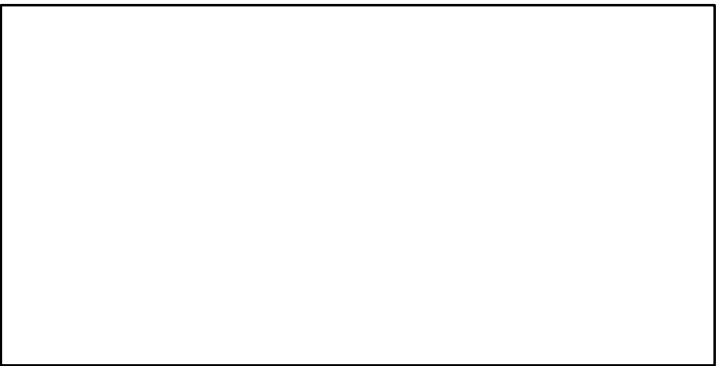


Surmullet Balearic Island [SMULLMEDGSA5]

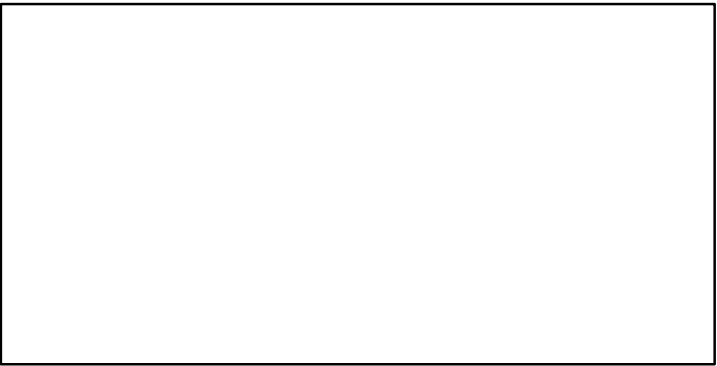
TC-MT, TL-MT, RecC\* (2000-2022-HIVELY)



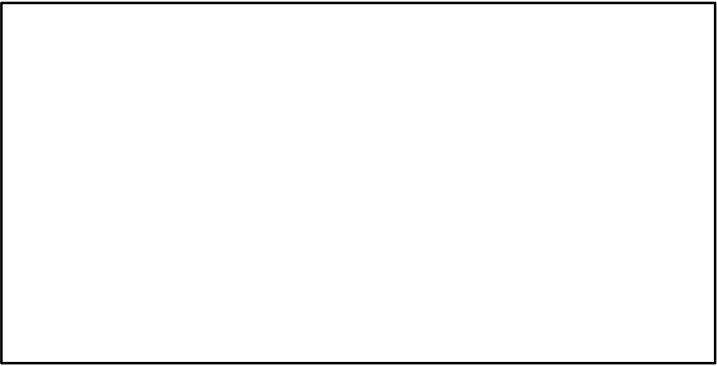
TAC\*, Cpair\*, Cadv\*



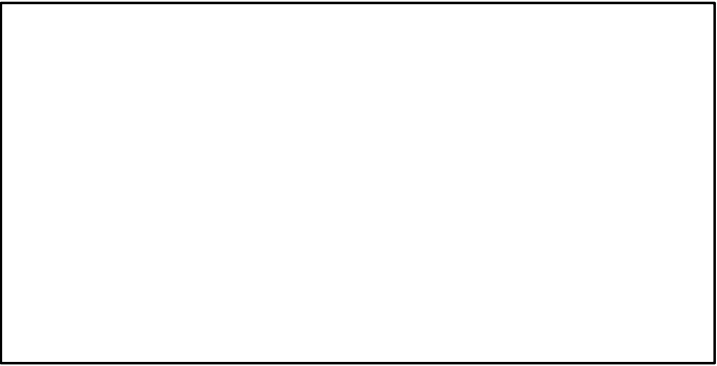
CPUE\*



EFFORT\*



CdivMSY\*



## Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

Metadata	
<b>Scientific Name</b>	Mullus surmuletus
<b>Current Assess ID</b>	STECF-SMULLMEDGSA9-2006-2015-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.52
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<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	1270	-	-
<b>SSB</b>	SSB-MT	2015	463	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	16,600,000	-	-
<b>F</b>	F-1/yr	2015	0.492	-	-
<b>ER</b>	ER-calc-ratio	2015	0.205	-	-
<b>TC</b>	TC-MT	2015	260		
<b>TL</b>	TL-MT	2015	260		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	0.946		
<b>ER/ERmgt</b>	-	-	-		

Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

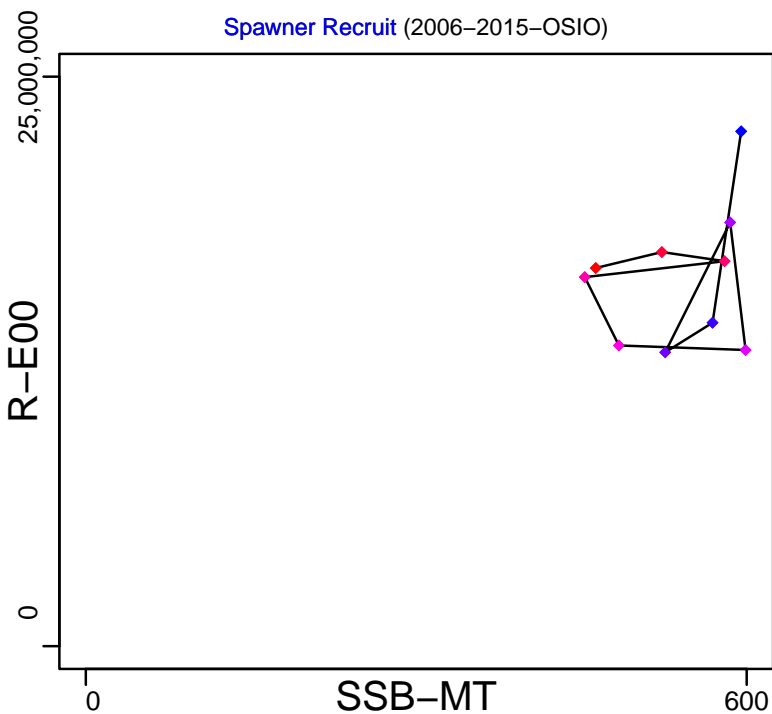
Kobe MSY\*



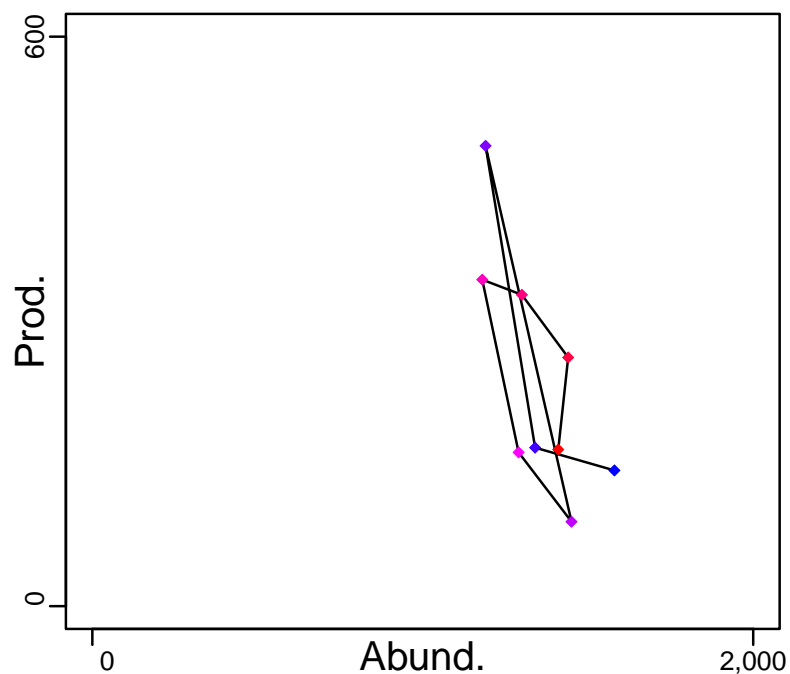
Kobe MGT\*



Spawner Recruit (2006–2015–OSIO)



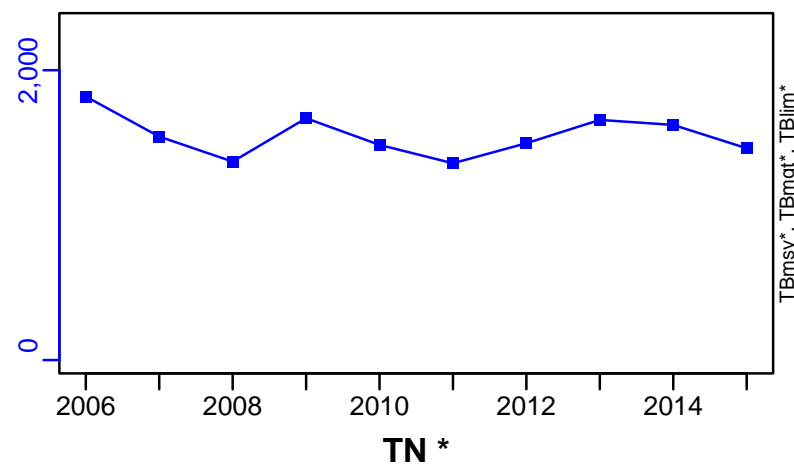
Production (2006–2015–OSIO)



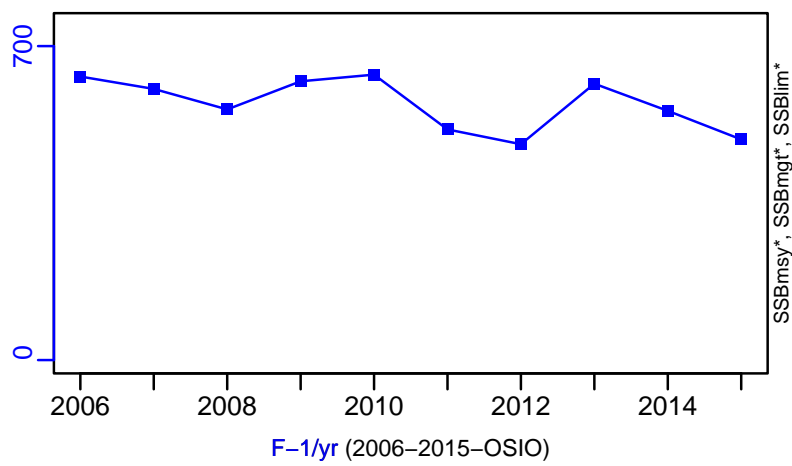
◆ Start Year ◆ End Year \* No Data

# Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

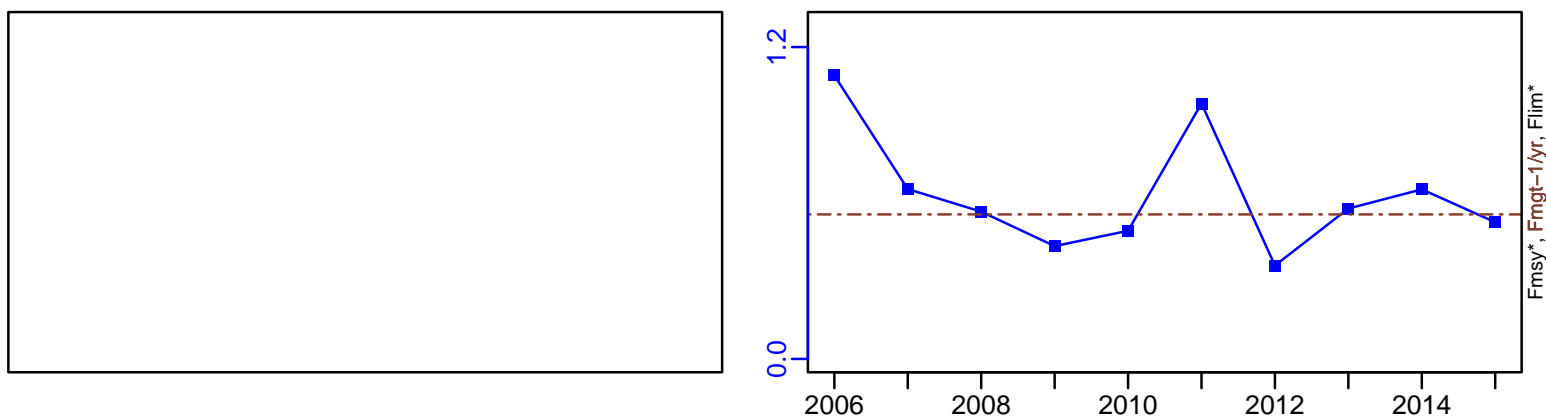
TB-MT (2006–2015–OSIO)



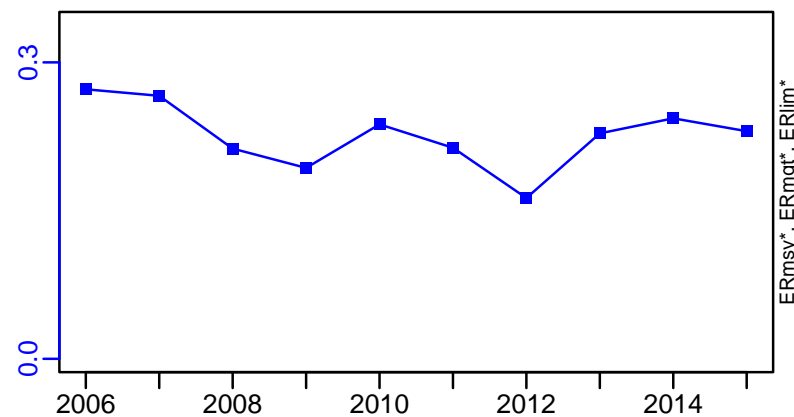
SSB-MT (2006–2015–OSIO)



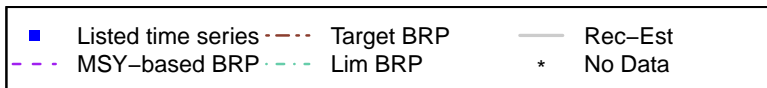
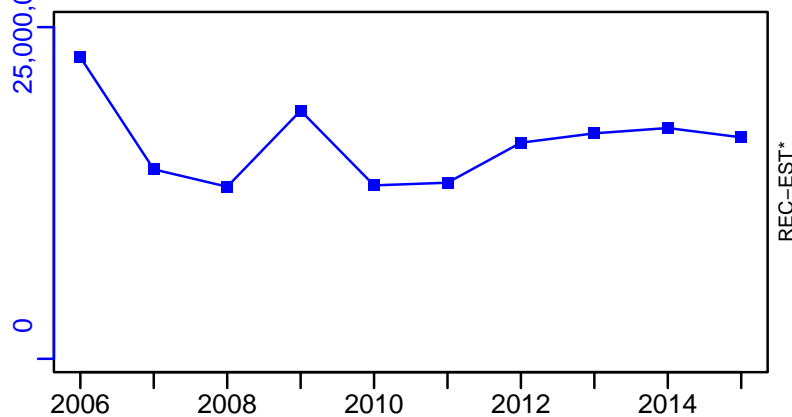
F-1/yr (2006–2015–OSIO)



ER-calc-ratio (2006–2015–OSIO)



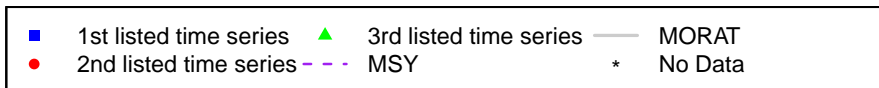
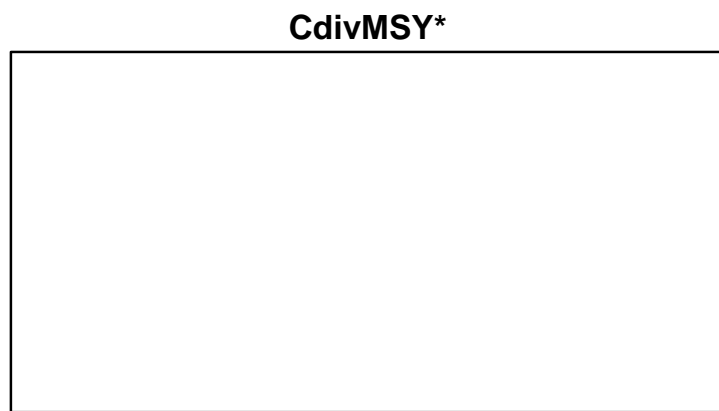
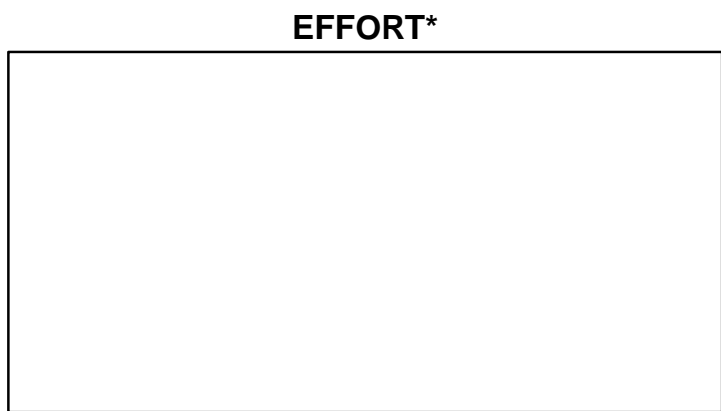
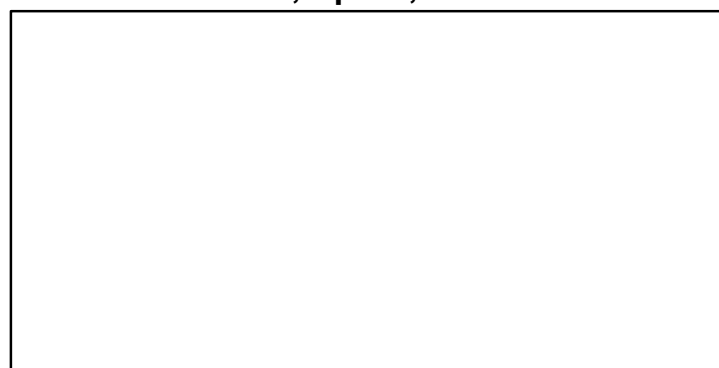
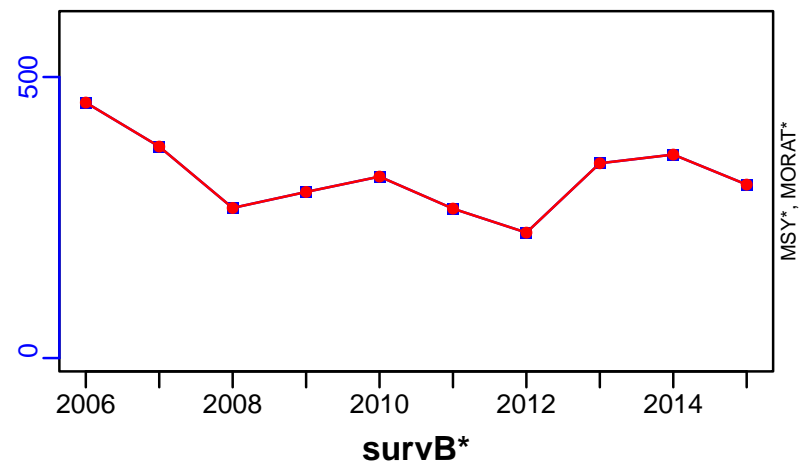
R-E00 (2006–2015–OSIO)



# Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

TC-MT, TL-MT, RecC\* (2006–2015–OSIO)

TAC\*, Cpair\*, Cadv\*





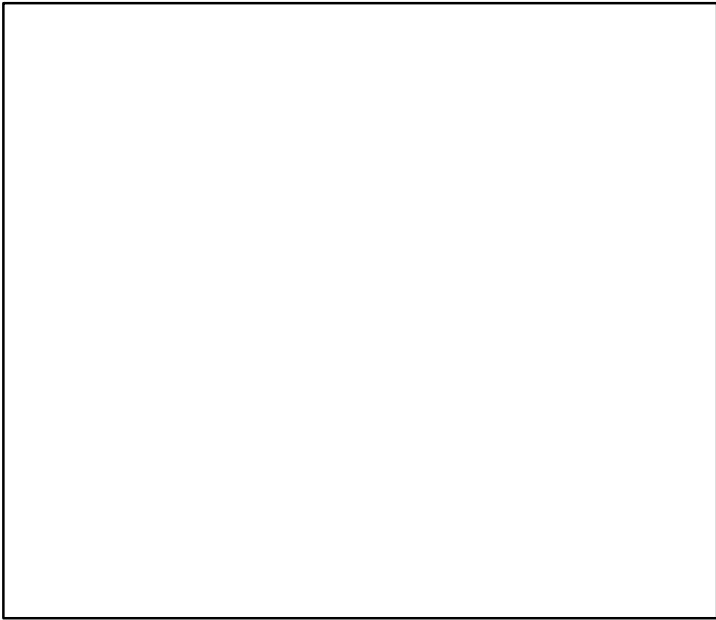
## Snapper Gulf St. Vincent [SNAPSAUSGSV]

Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	SARDI-SNAPSAUSGSV-1983-2022-HIVELY
<b>Area</b>	Gulf St. Vincent
<b>Management Authority</b>	South Australian Research and Development Institute
<b>Assessor</b>	South Australian Research and Development Institute
<b>Asmts in RAM</b>	2022

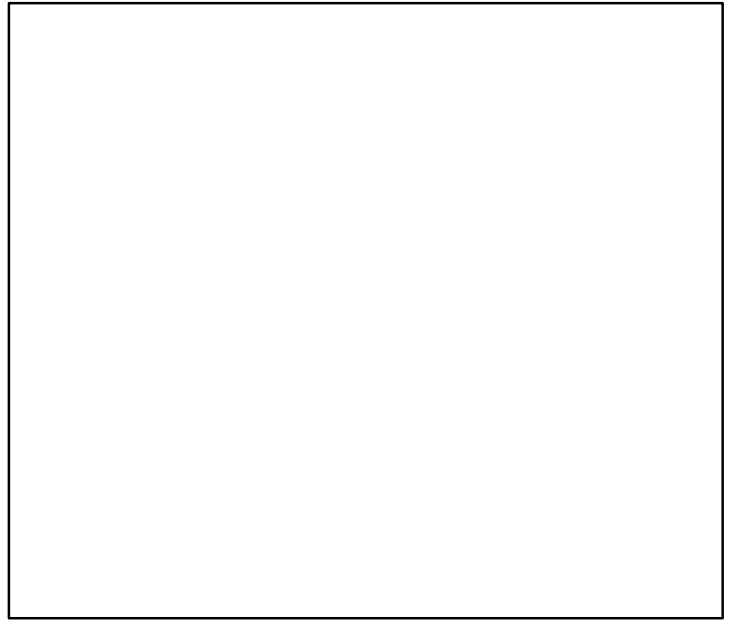
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	375	-	-
SSB	SSB-relative	2022	0.032	-	-
TN	-	-	-	-	-
R	R-E00	2022	13,045	-	-
F	-	-	-	-	-
ER	ER-ratio	2022	0.021	-	-
TC	TC-MT	2022	163		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

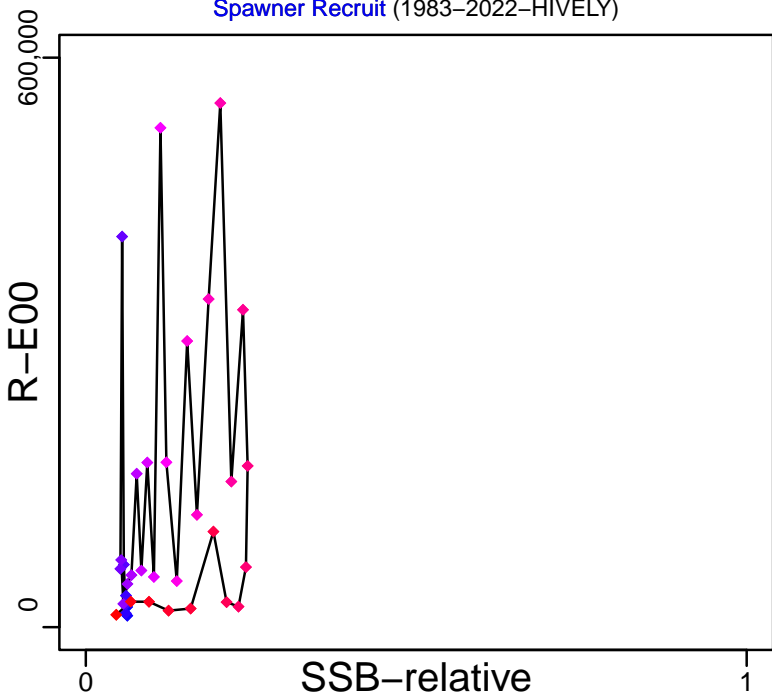
Kobe MSY\*



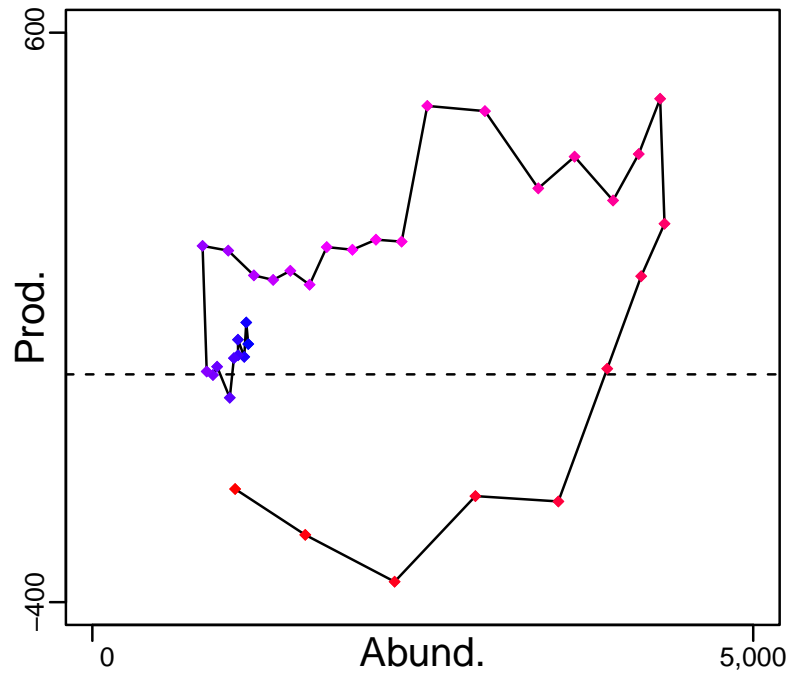
Kobe MGT\*



Spawner Recruit (1983–2022–HIVELY)



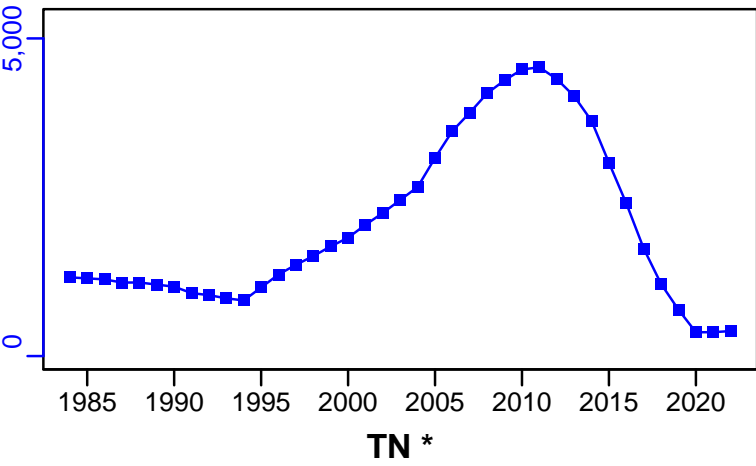
Production (1983–2022–HIVELY)



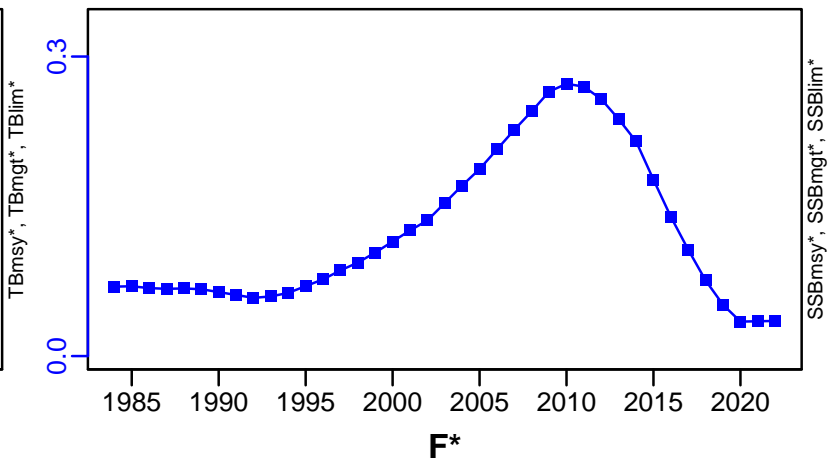
◆ Start Year ◆ End Year \* No Data

# Snapper Gulf St. Vincent [SNAPSAUSGSV]

TB-MT (1983–2022–HIVELY)

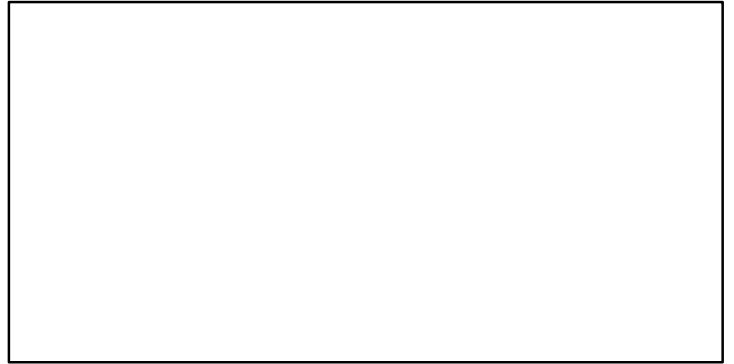
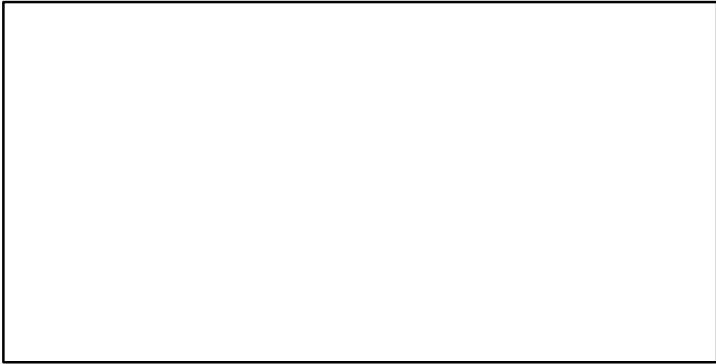


SSB-relative (1983–2022–HIVELY)

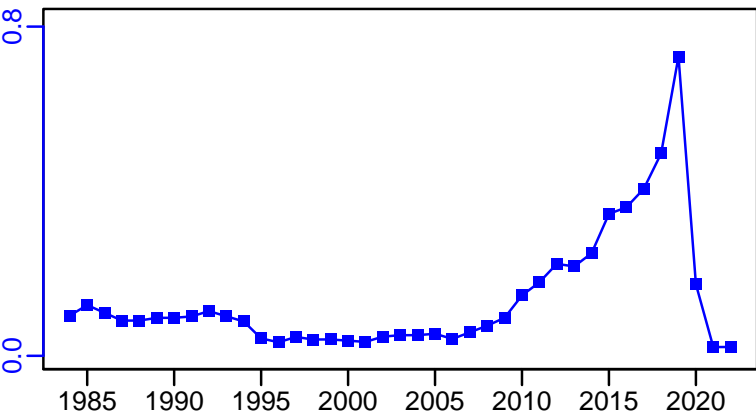


TN \*

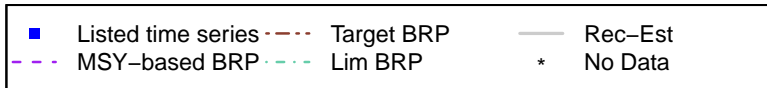
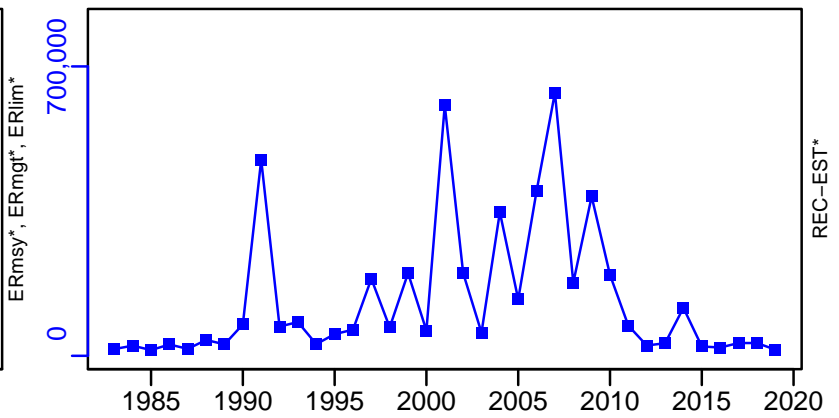
F\*



ER-ratio (1983–2022–HIVELY)

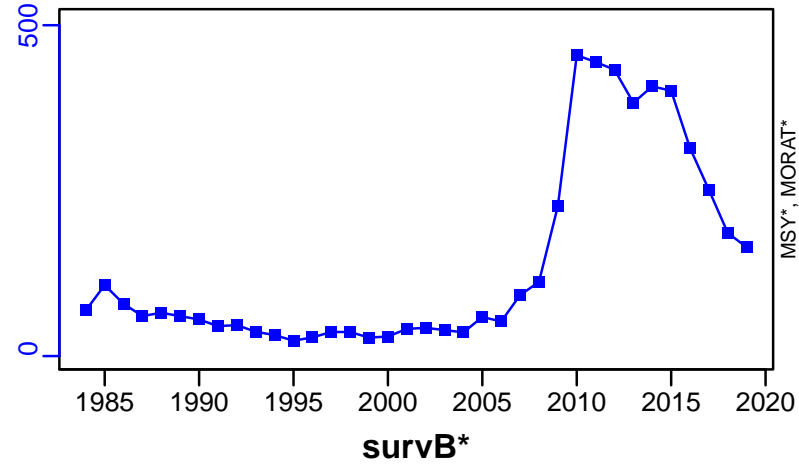


R-E00 (1983–2022–HIVELY)

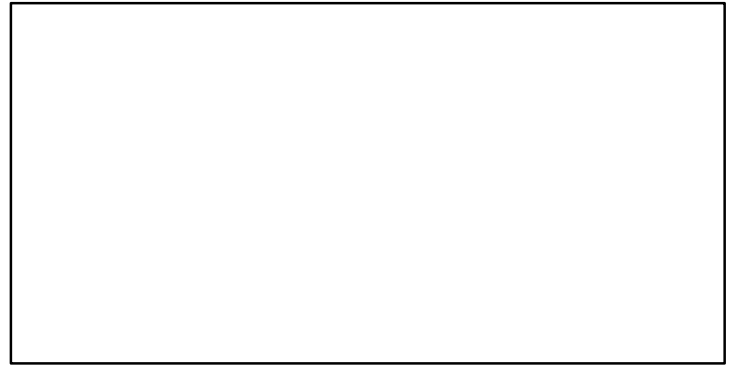


Snapper Gulf St. Vincent [SNAPSAUSGSV]

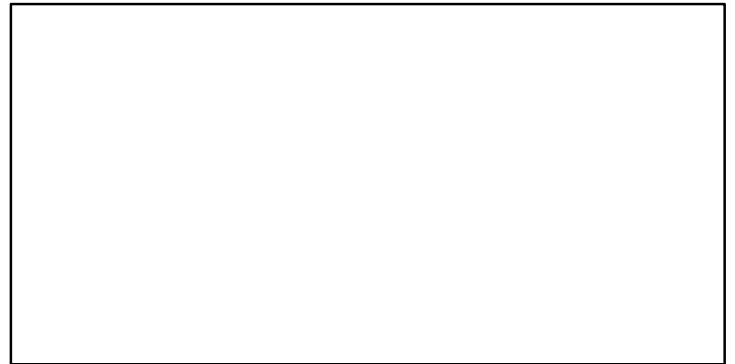
TC-MT, TL\*, RecC\* (1983-2022-HIVELY)



TAC\*, Cpair\*, Cadv\*



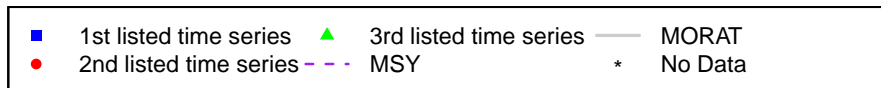
CPUE\*



EFFORT\*



CdivMSY\*



## Snapper South-East Region [SNAPSAUSSER]

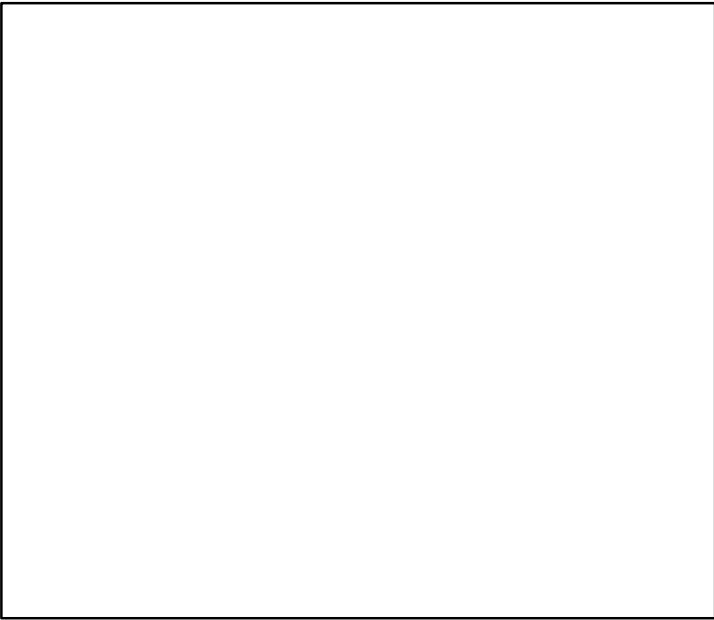
Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	SARDI-SNAPSAUSSER-1983-2022-HIVELY
<b>Area</b>	South-East Region
<b>Management Authority</b>	South Australian Research and Development Institute
<b>Assessor</b>	South Australian Research and Development Institute
<b>Asmts in RAM</b>	2022

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	354	-	-
SSB	SSB-relative	2022	0.066	-	-
TN	-	-	-	-	-
R	R-E00	2022	14,339	-	-
F	-	-	-	-	-
ER	ER-ratio	2022	0.055	-	-
TC	TC-MT	2022	33		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Snapper South-East Region [SNAPSAUSSER]

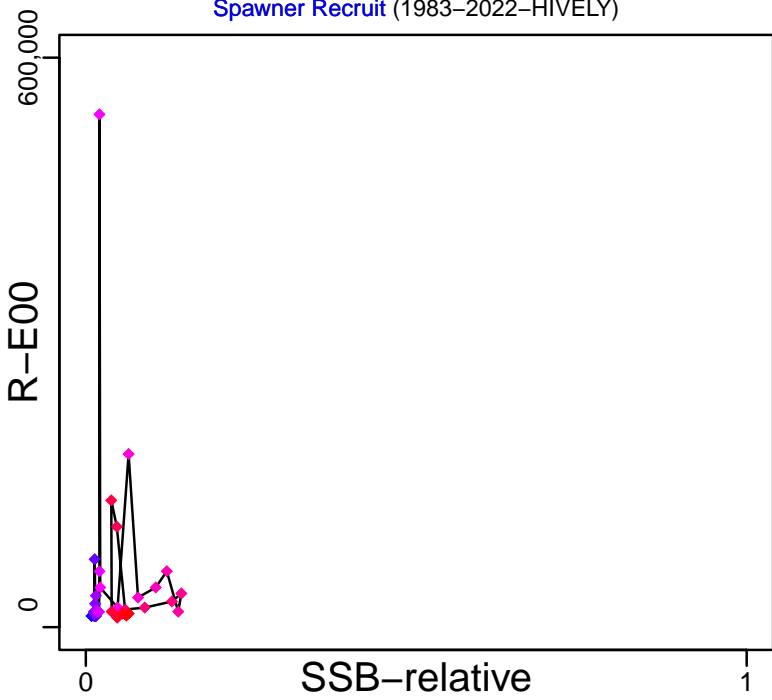
Kobe MSY\*



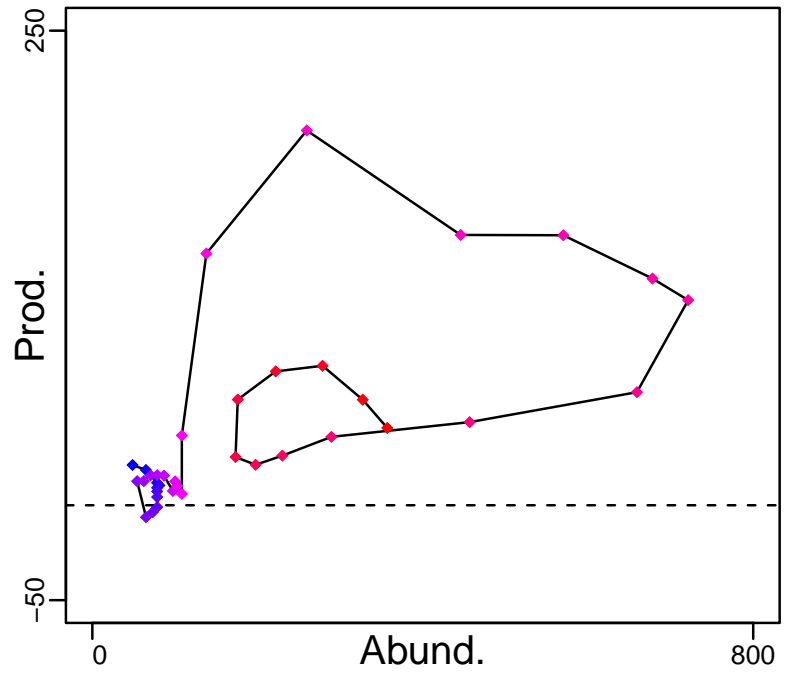
Kobe MGT\*



Spawner Recruit (1983–2022–HIVELY)



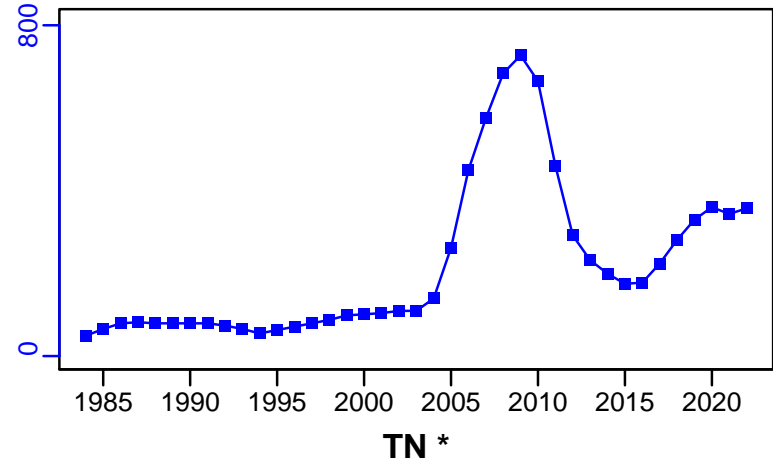
Production (1983–2022–HIVELY)



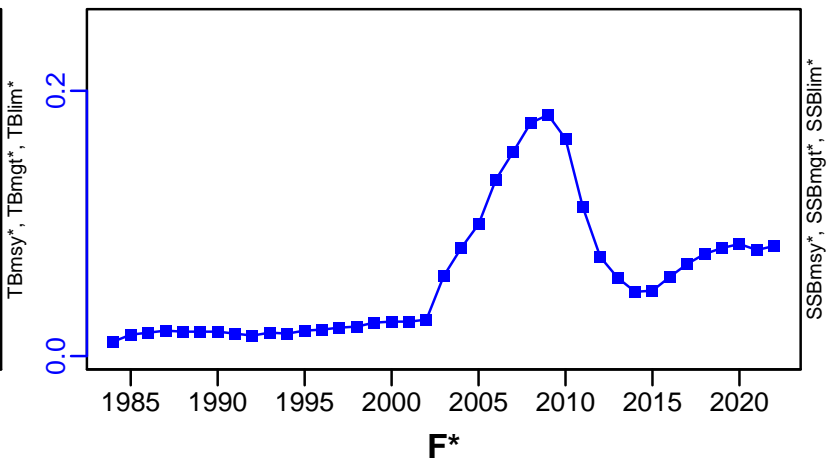
◆ Start Year ◆ End Year \* No Data

# Snapper South-East Region [SNAPSAUSSER]

TB-MT (1983–2022–HIVELY)

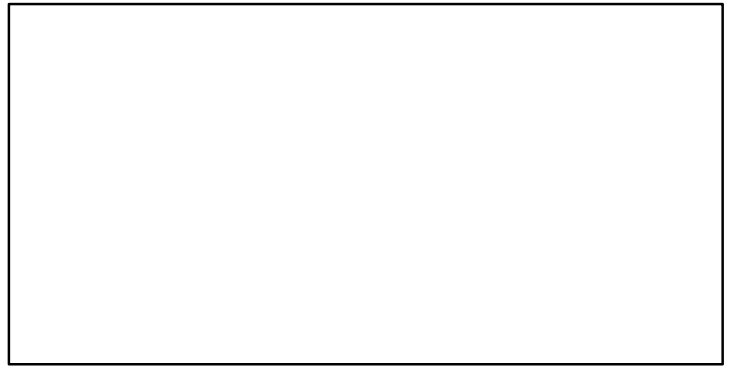
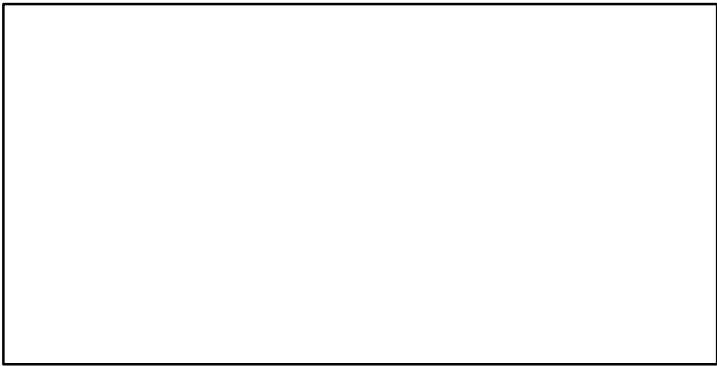


SSB-relative (1983–2022–HIVELY)

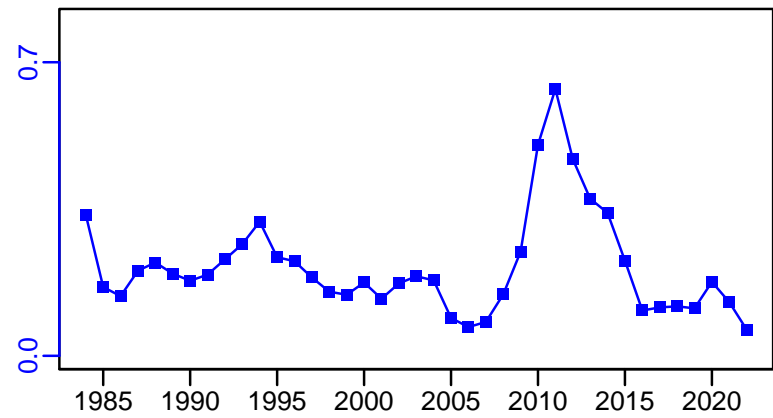


TN \*

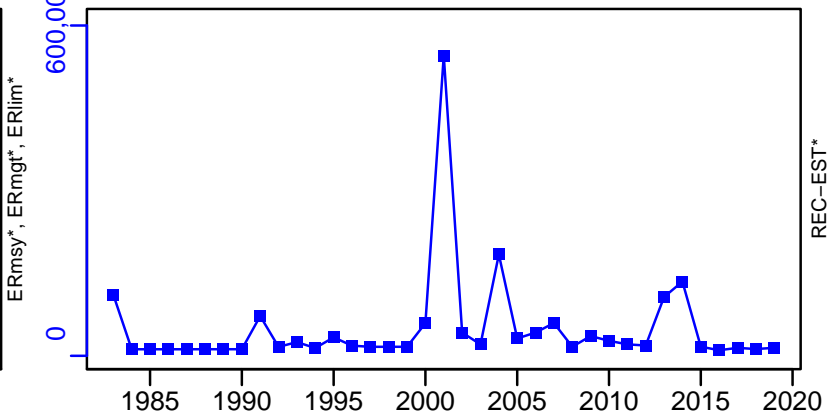
F\*



ER-ratio (1983–2022–HIVELY)

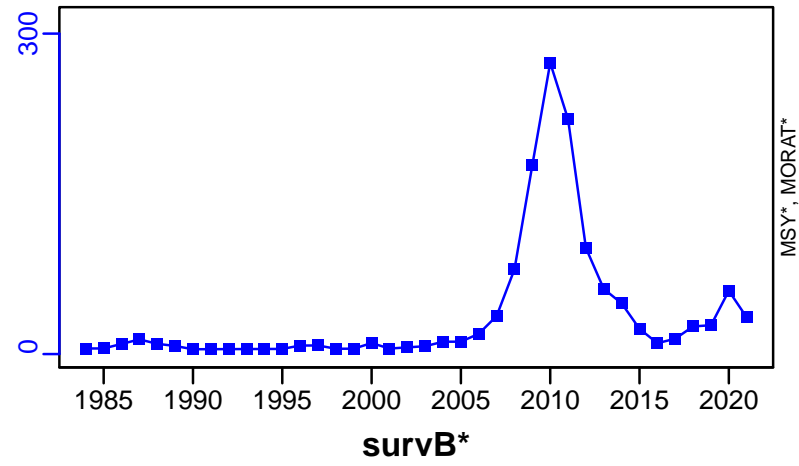


R-E00 (1983–2022–HIVELY)

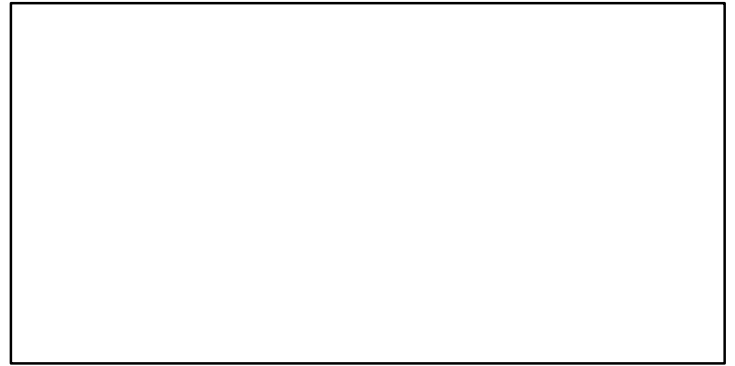


Snapper South-East Region [SNAPSAUSSER]

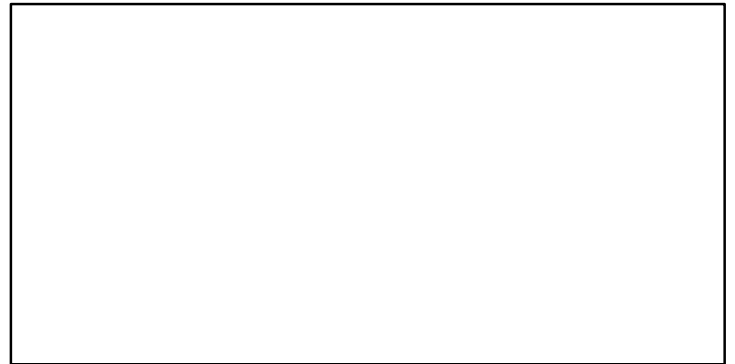
TC-MT, TL\*, RecC\* (1983-2022-HIVELY)



TAC\*, Cpair\*, Cadv\*



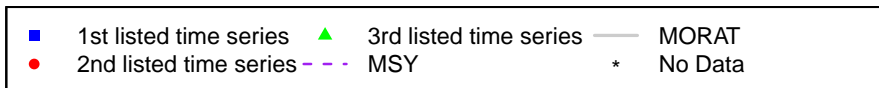
CPUE\*



EFFORT\*



CdivMSY\*





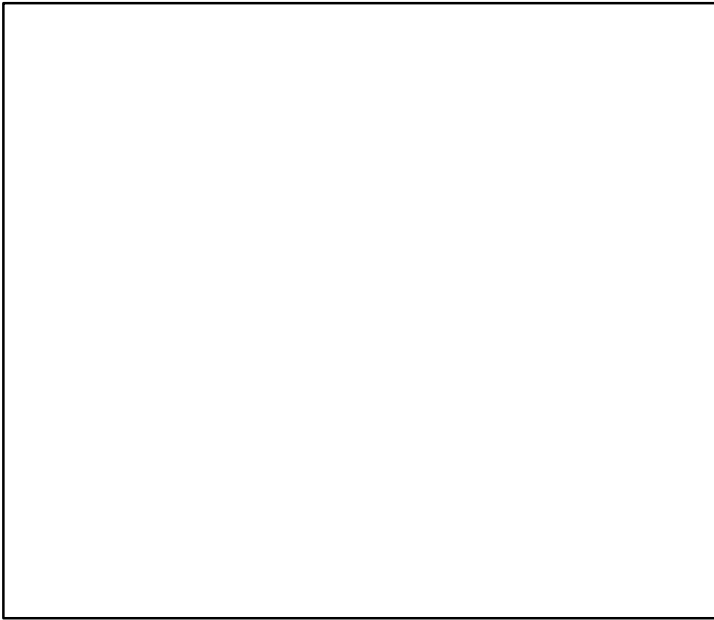
## Snapper Spencer Gulf and West Coast [SNAPSAUSSGWC]

Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	SARDI-SNAPSAUSSGWC-1983-2022-HIVELY
<b>Area</b>	Spencer Gulf and West Coast
<b>Management Authority</b>	South Australian Research and Development Institute
<b>Assessor</b>	South Australian Research and Development Institute
<b>Asmts in RAM</b>	2022

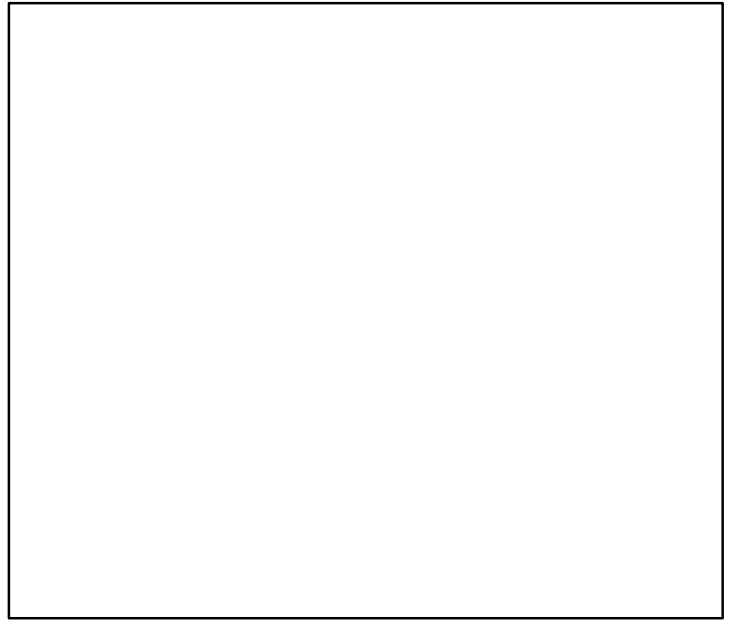
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	543	-	-
SSB	SSB-relative	2022	0.021	-	-
TN	-	-	-	-	-
R	R-E00	2022	56,888	-	-
F	-	-	-	-	-
ER	ER-ratio	2022	0.02	-	-
TC	TC-MT	2022	47		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

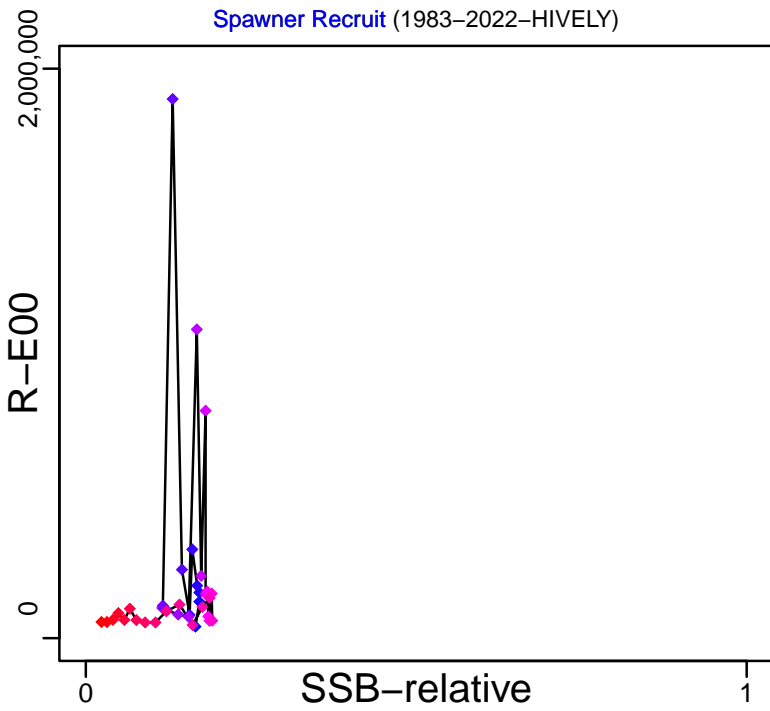
Kobe MSY\*



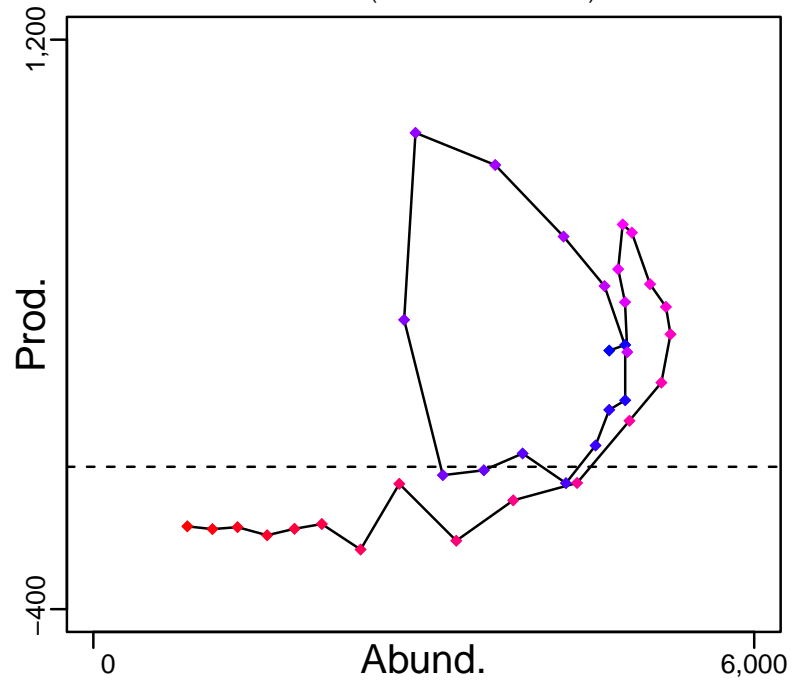
Kobe MGT\*



Spawner Recruit (1983–2022–HIVELY)



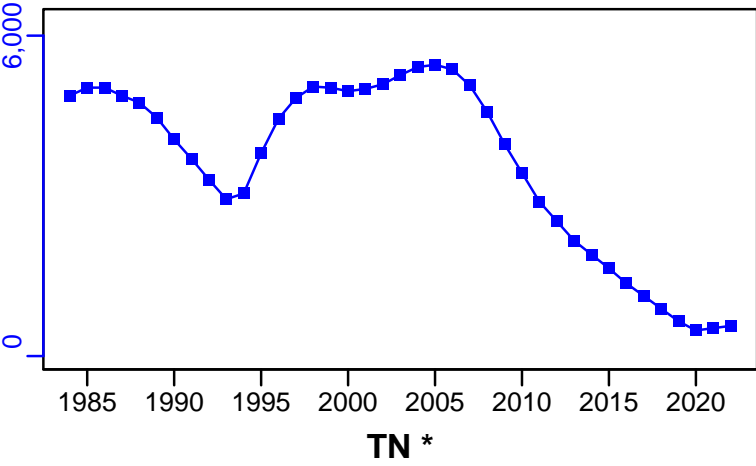
Production (1983–2022–HIVELY)



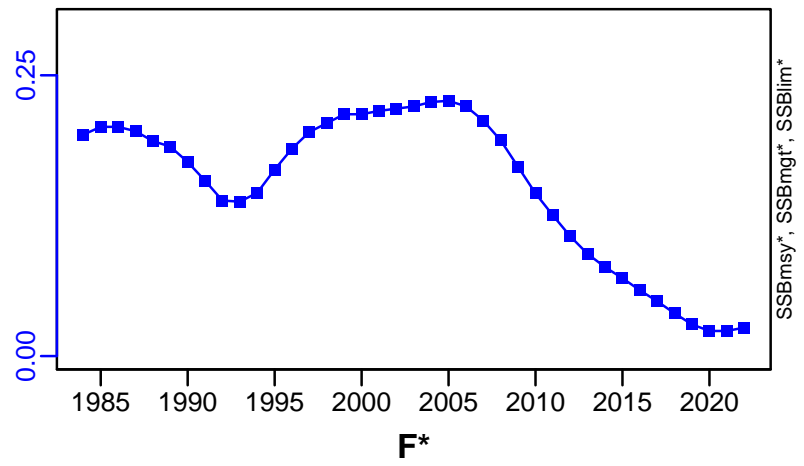
◆ Start Year ◆ End Year \* No Data

# Snapper Spencer Gulf and West Coast [SNAPSAUSSGWC]

TB-MT (1983–2022–HIVELY)

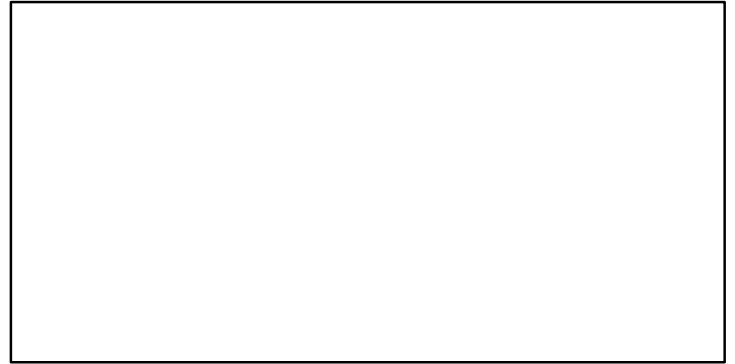
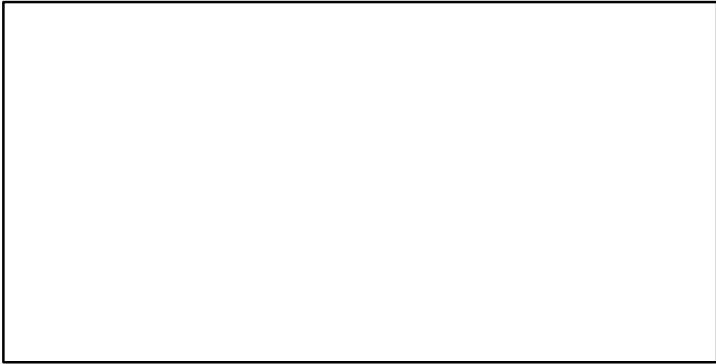


SSB-relative (1983–2022–HIVELY)

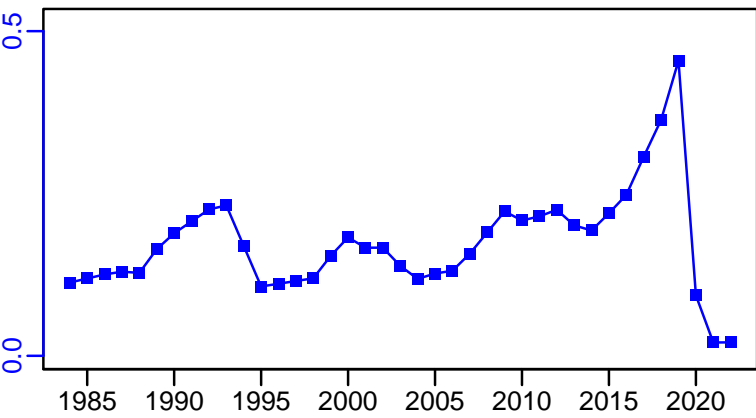


TN \*

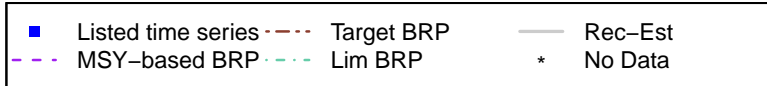
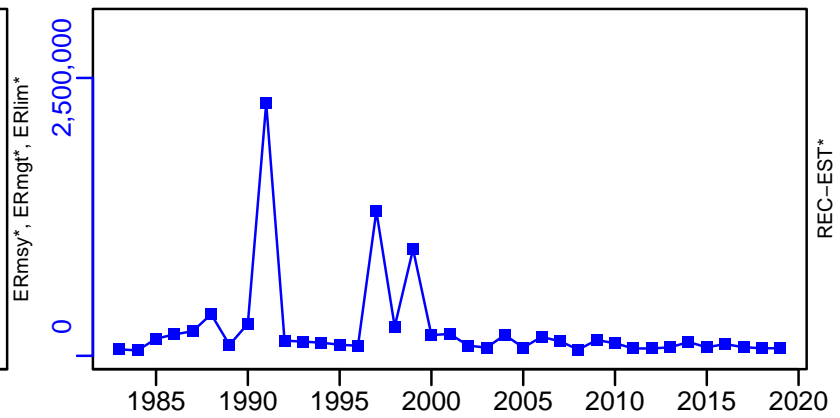
F\*



ER-ratio (1983–2022–HIVELY)

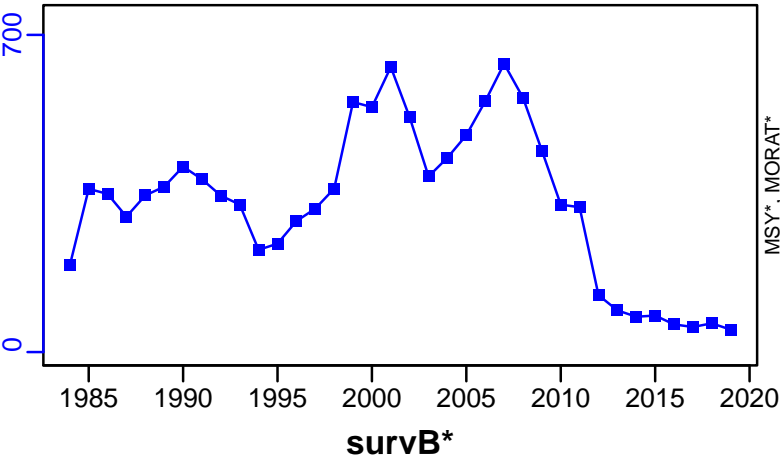


R-E00 (1983–2022–HIVELY)



Snapper Spencer Gulf and West Coast [SNAPSAUSSGWC]

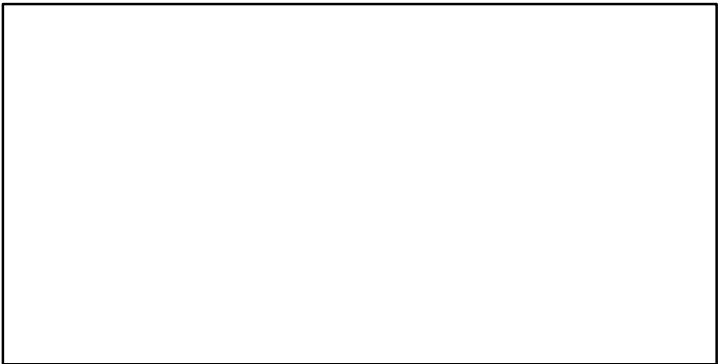
TC-MT, TL\*, RecC\* (1983-2022-HIVELY)



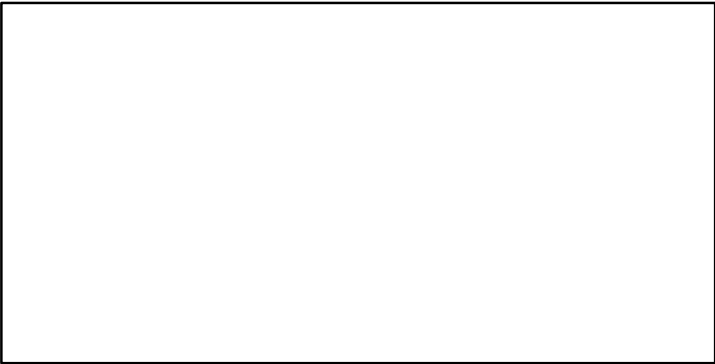
TAC\*, Cpair\*, Cadv\*



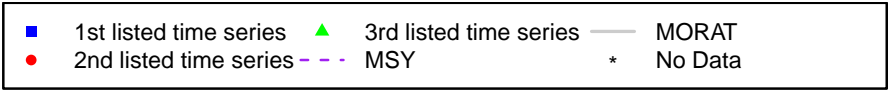
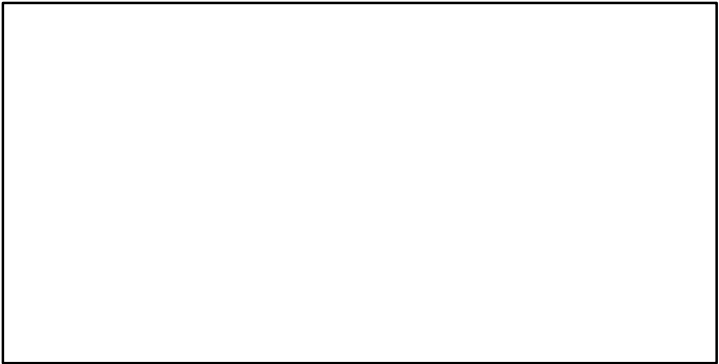
CPUE\*



EFFORT\*



CdivMSY\*



## Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

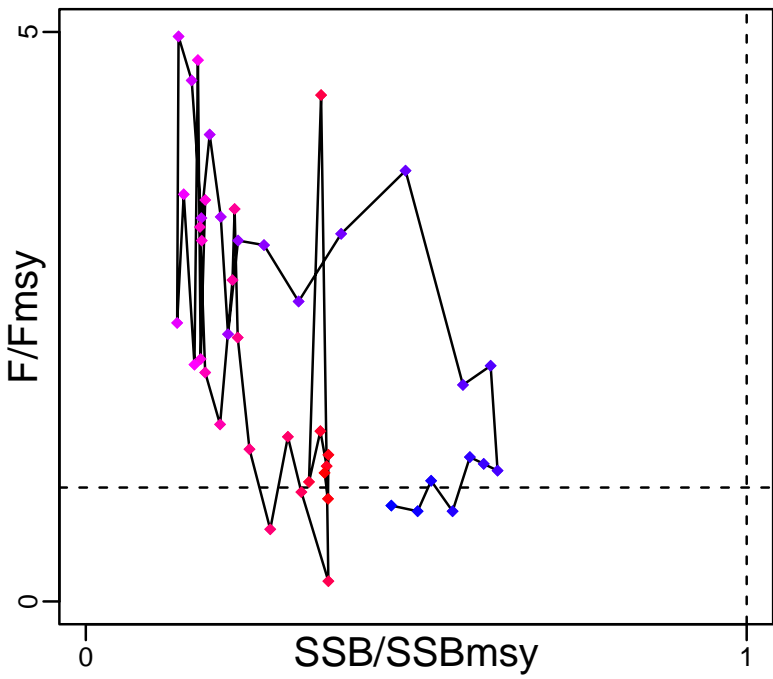
Metadata	
<b>Scientific Name</b>	Epinephelus niveatus
<b>Current Assess ID</b>	SEFSC-SNOWGROUPSATLC-1974-2018-SISIMP2021-2
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2013, 2018

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2013	2092
<b>SSBmsy</b>	SSBmsy-MT	2018	1910
<b>Fmsy</b>	Fmsy-1/yr	2018	0.101
<b>ERmsy</b>	ERmsy-calc-ratio	2013	0.091
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2018	241
<b>M</b>	M-1/yr	2013	0.15
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	1430
<b>Flim</b>	Flim-1/yr	2018	0.101
<b>ERlim</b>	-	-	-

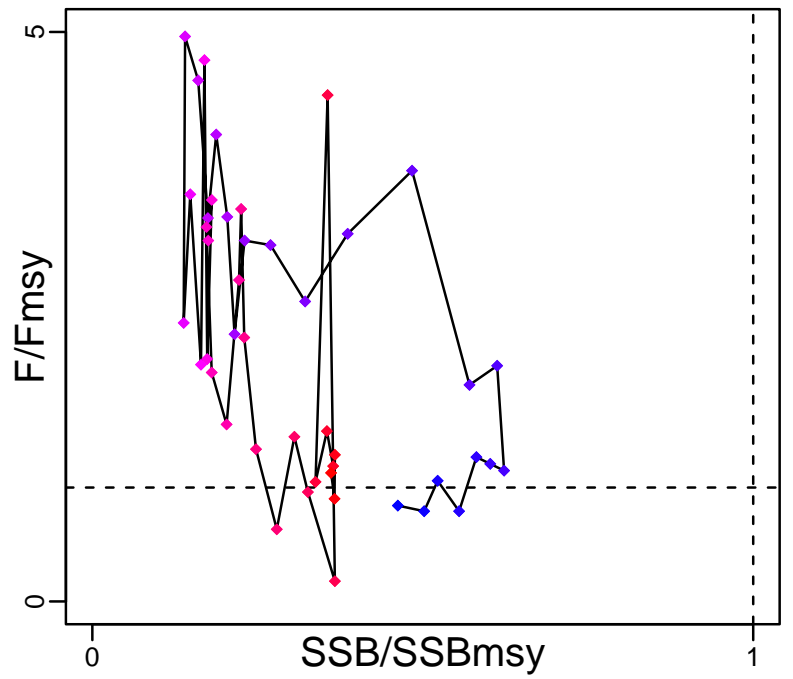
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	1200	-	-
<b>SSB</b>	SSB-MT	2018	690	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	197,000	-	1
<b>F</b>	F-1/yr	2018	0.114	-	-
<b>ER</b>	ER-calc-ratio	2013	0.097	-	-
<b>TC</b>	TC-MT	2018	105		
<b>TL</b>	TL-MT	2013	110		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2013	0.574		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2018	0.361		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	1.129		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2013	1.072		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

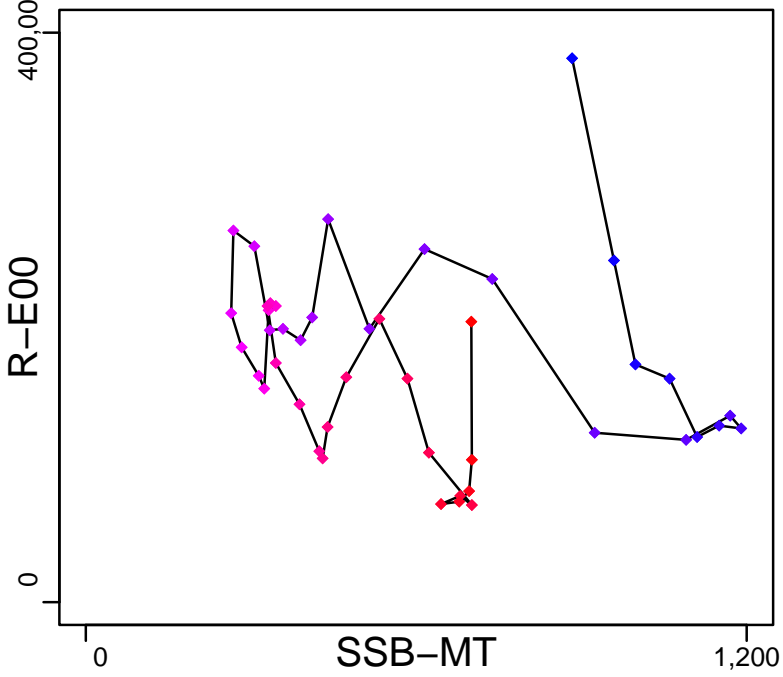
Kobe MSYpref (1974–2018–SISIMP2021–2)



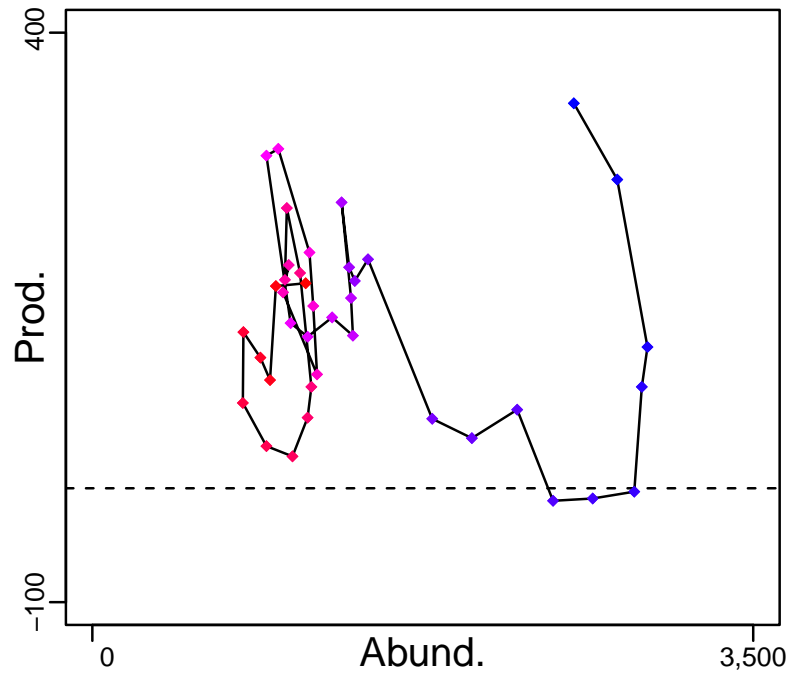
Kobe MGTpref (1974–2018–SISIMP2021–2)



Spawner Recruit (1974–2018–SISIMP2021–2)



Production (1974–2013–HIVELY)

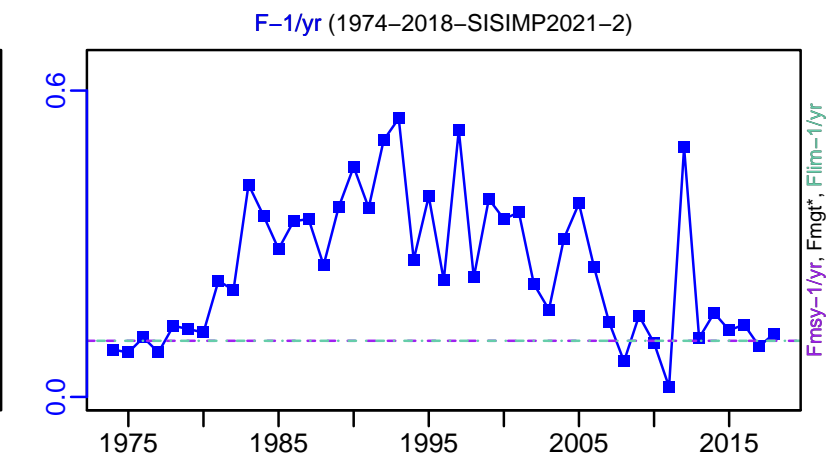
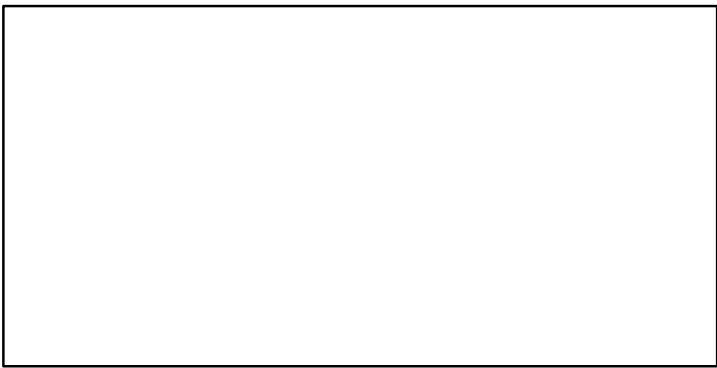
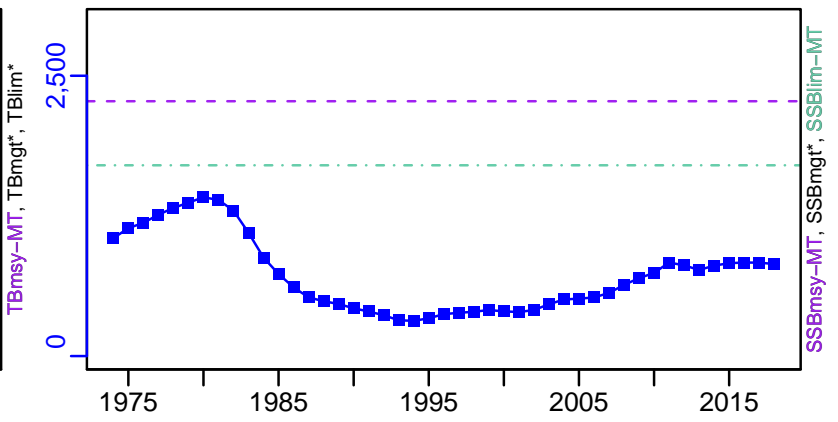
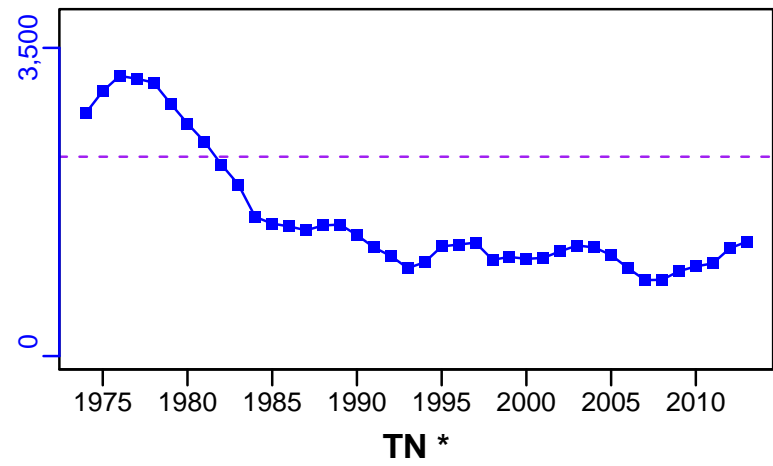


◆ Start Year ◆ End Year \* No Data

# Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

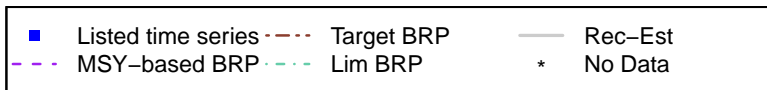
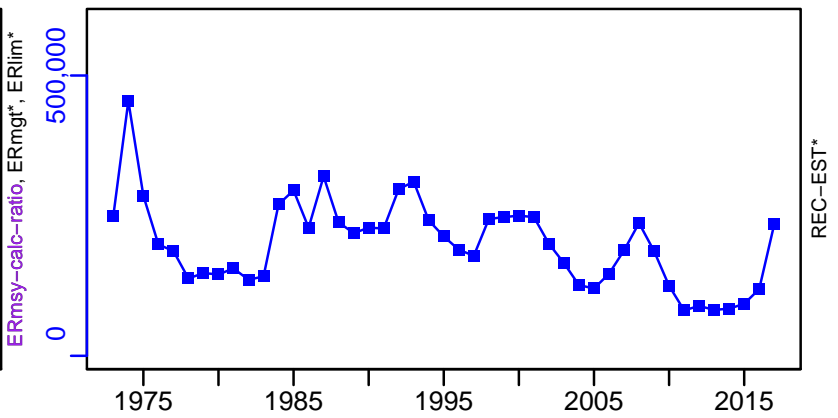
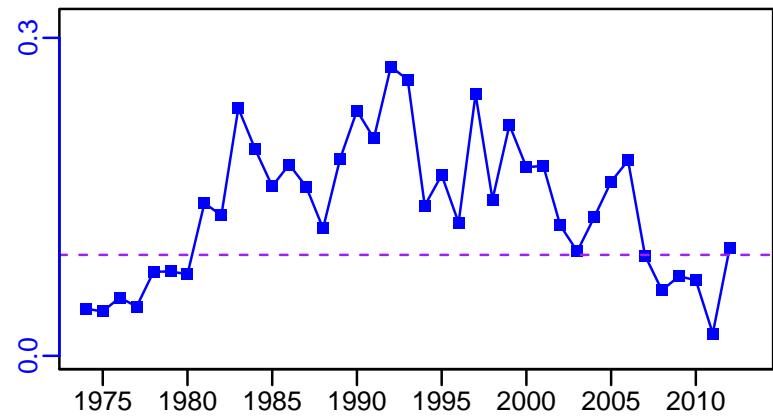
TB-MT (1974–2013–HIVELY)

SSB-MT (1974–2018–SISIMP2021–2)



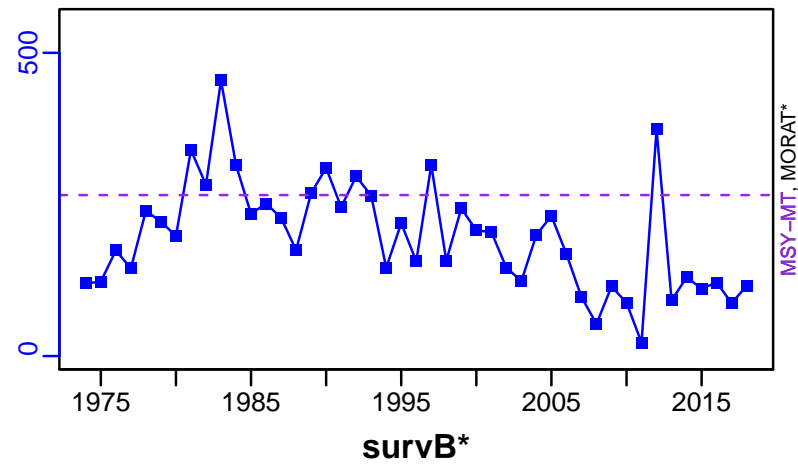
ER-calc-ratio (1974–2013–HIVELY)

R-E00 (1974–2018–SISIMP2021–2)

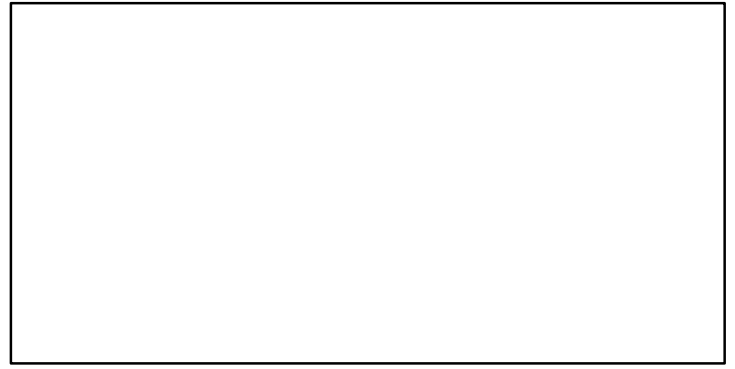


# Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

TC-MT, TL\*, RecC\* (1974-2018-SISIMP2021-2)



TAC\*, Cpair\*, Cadv\*



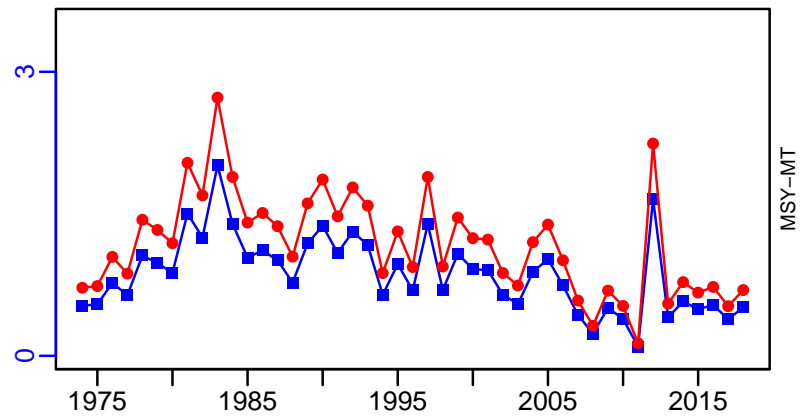
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1974-2018-SISIMP2021-2)



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



## Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

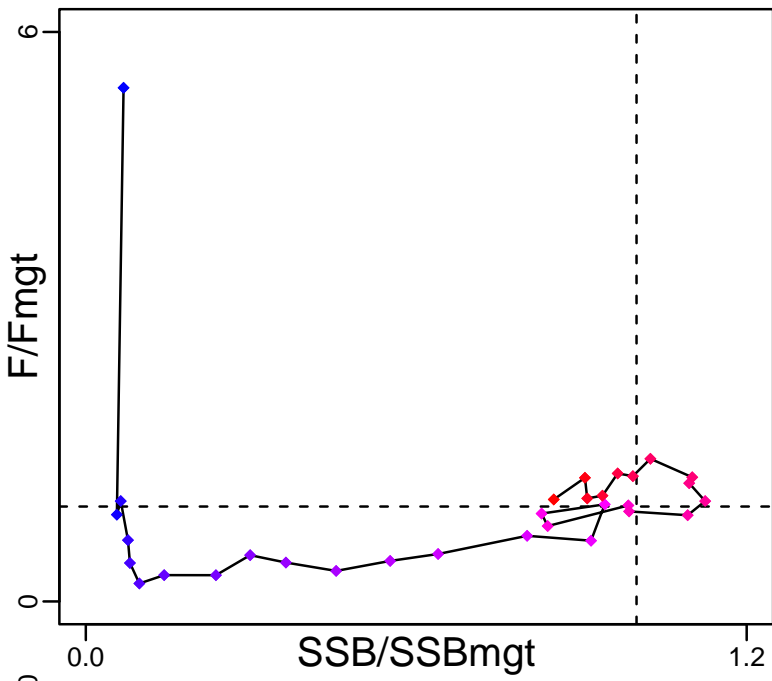
Metadata	
<b>Scientific Name</b>	Morone saxatilis
<b>Current Assess ID</b>	NEFSC-STRIPEDBASSGOMCHATT-1981-2012-HIVELY
<b>Area</b>	Gulf of Maine / Cape Hatteras
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Northeast Fisheries Science Center
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2012	72,380
Fmgt	Fmgt-1/yr	2012	0.175
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

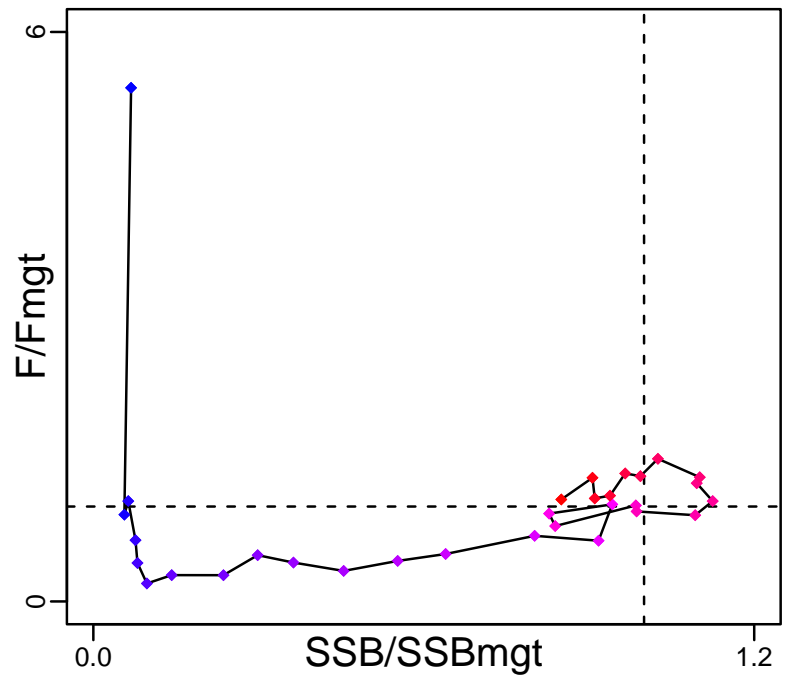
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	61,500	Females	4+
TN	TN-E00	2012	$2.15 \times 10^8$	-	-
R	R-E00	2012	$1.44 \times 10^8$	-	1
F	F-1/yr	2012	0.188	-	-
ER	ER-calc-ratio	2012	0.017	-	-
TC	TC-E00	2012	3,600,000		
TL	TL-MT	2012	3080		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	0.85		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	1.074		
ER/ERmgt	-	-	-		

Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

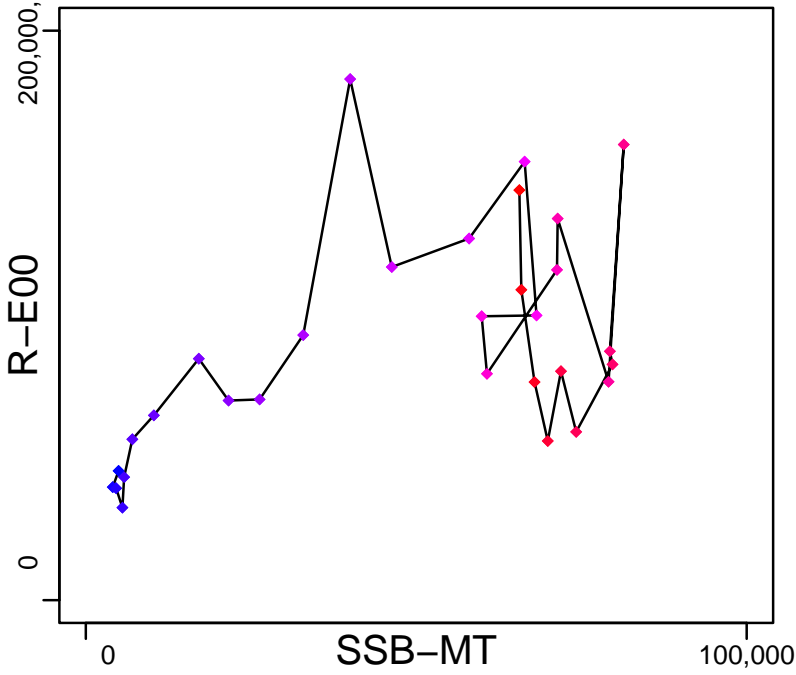
Kobe MSYpref (1981–2012–HIVELY)



Kobe MGTpref (1981–2012–HIVELY)



Spawner Recruit (1981–2012–HIVELY)



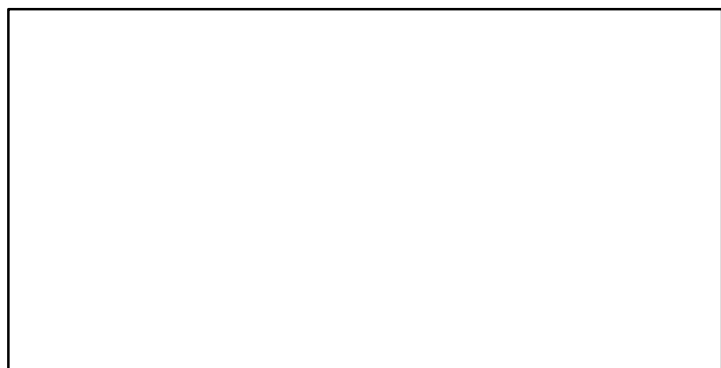
Production\*



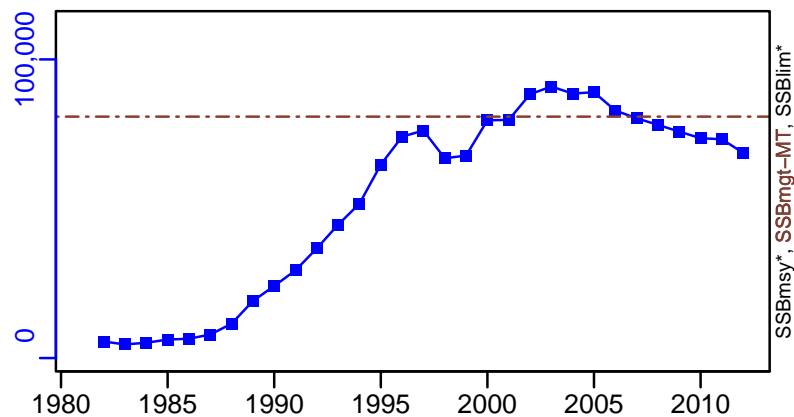
◆ Start Year ◆ End Year \* No Data

Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

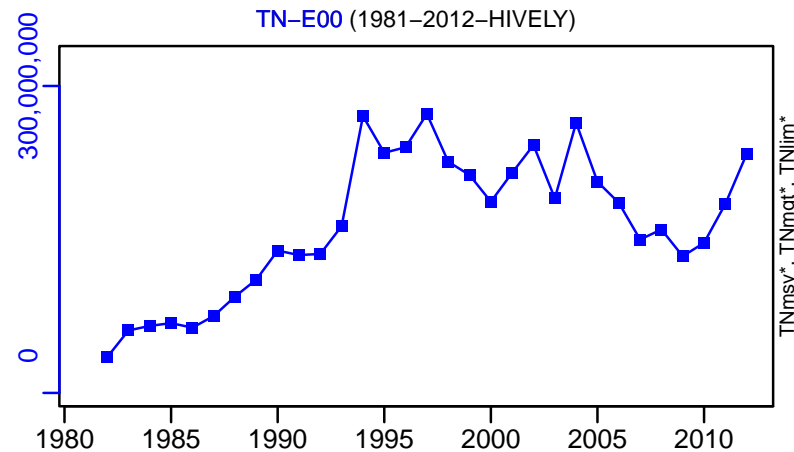
TB\*



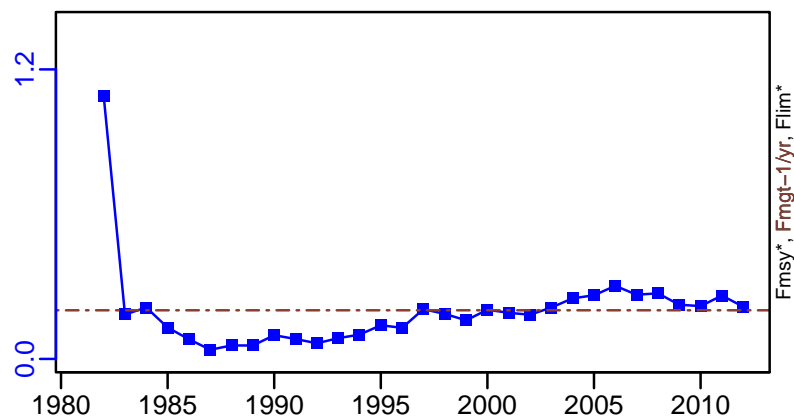
SSB-MT (1981-2012-HIVELY)



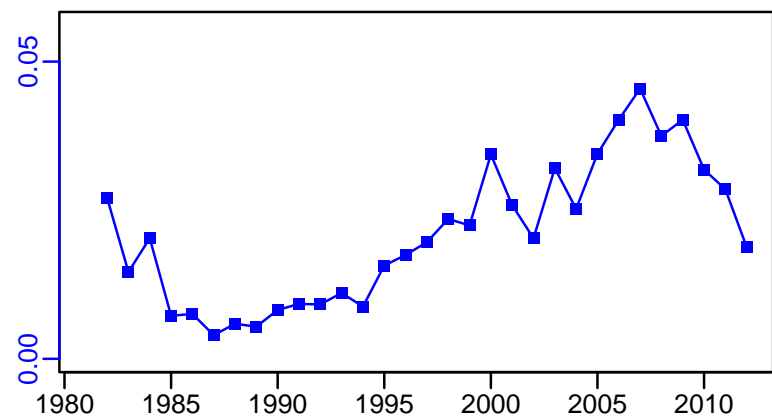
TN-E00 (1981-2012-HIVELY)



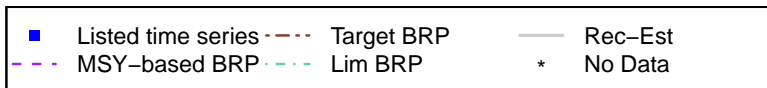
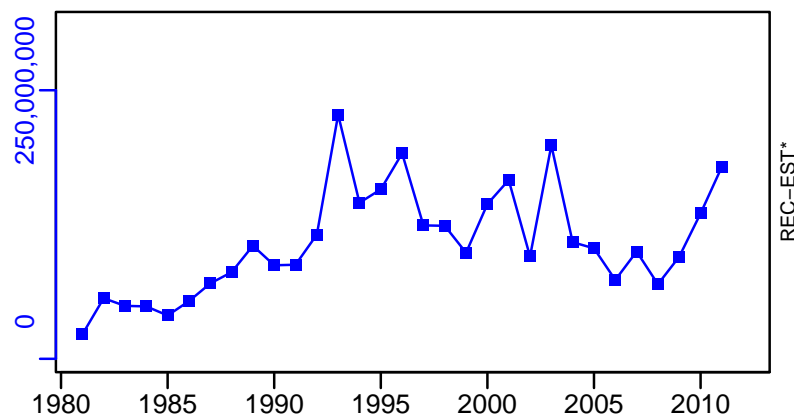
F-1/yr (1981-2012-HIVELY)



ER-calc-ratio (1981-2012-HIVELY)



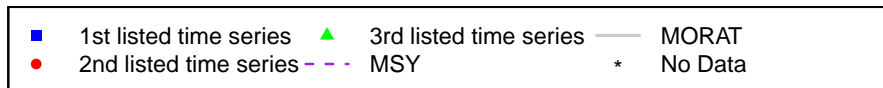
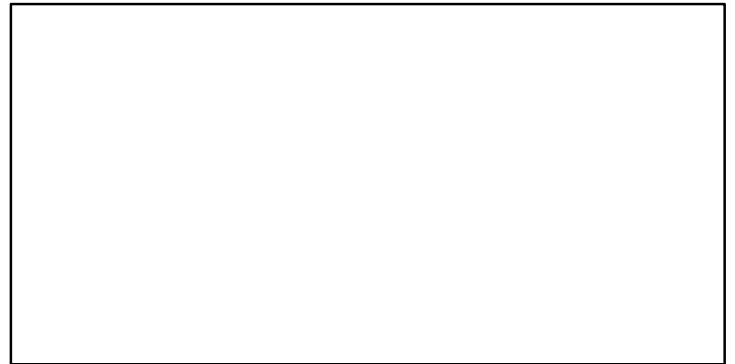
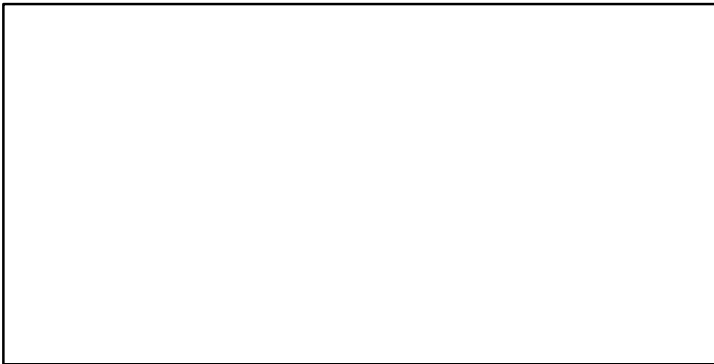
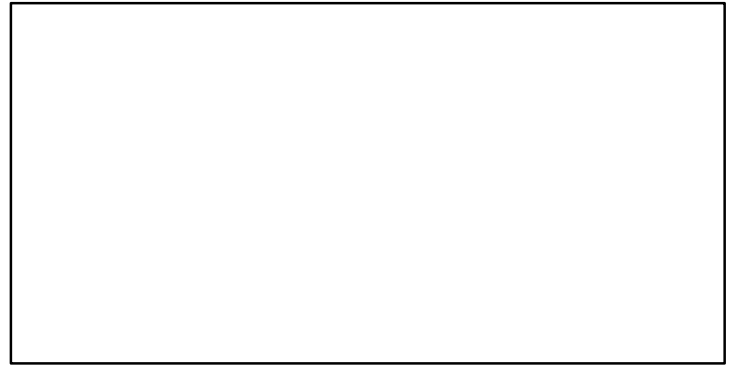
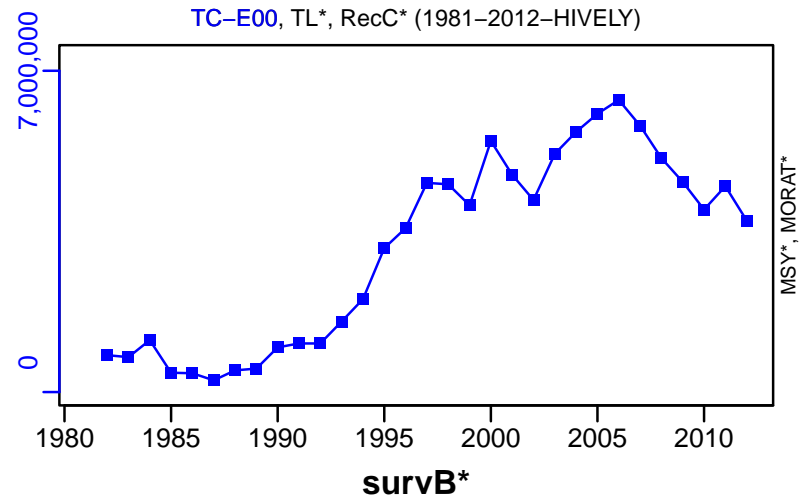
R-E00 (1981-2012-HIVELY)



Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

TC-E00, TL\*, RecC\* (1981–2012–HIVELY)

TAC\*, Cpair\*, Cadv\*



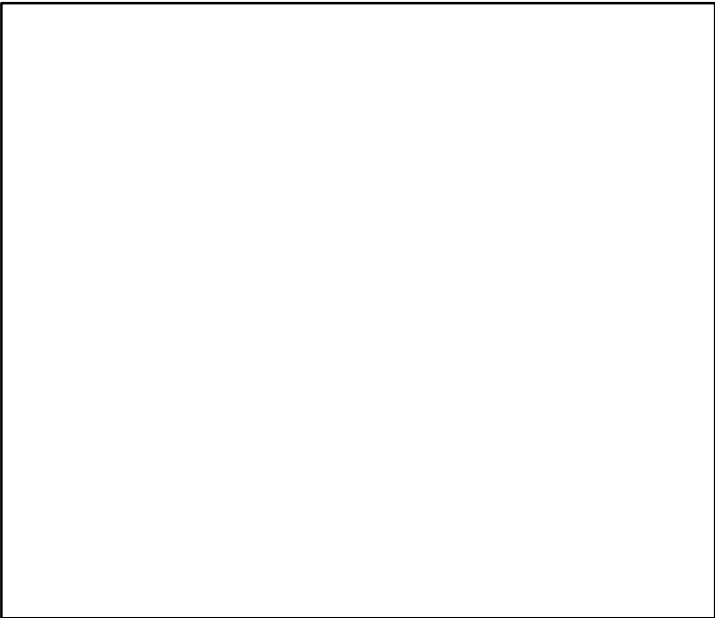
## Striped red mullet ICES 3a-4-7d [STRMULLIIIa-IV-VIId]

Metadata	
<b>Scientific Name</b>	Mullus surmuletus
<b>Current Assess ID</b>	WGNSSK-STRMULLIIIa-IV-VIId-2004-2020-ICESIMP2021-2
<b>Area</b>	ICES 3a-4-7d
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2014, 2016, 2018, 2020

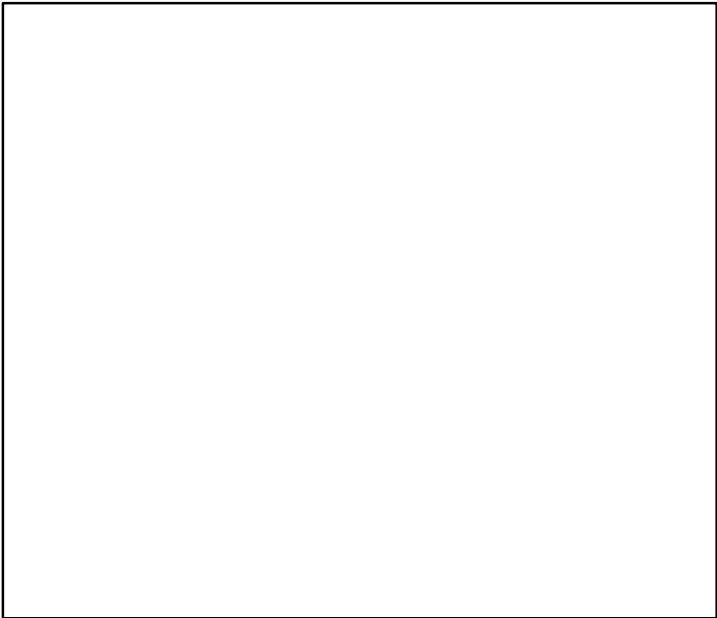
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2018	0.591	-	-
TN	-	-	-	-	-
R	R-relative	2018	7	-	-
F	F-relative	2018	2.077	-	1 to 2
ER	-	-	-	-	-
TC	TC-MT	2018	1648		
TL	TL-MT	2020	3500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

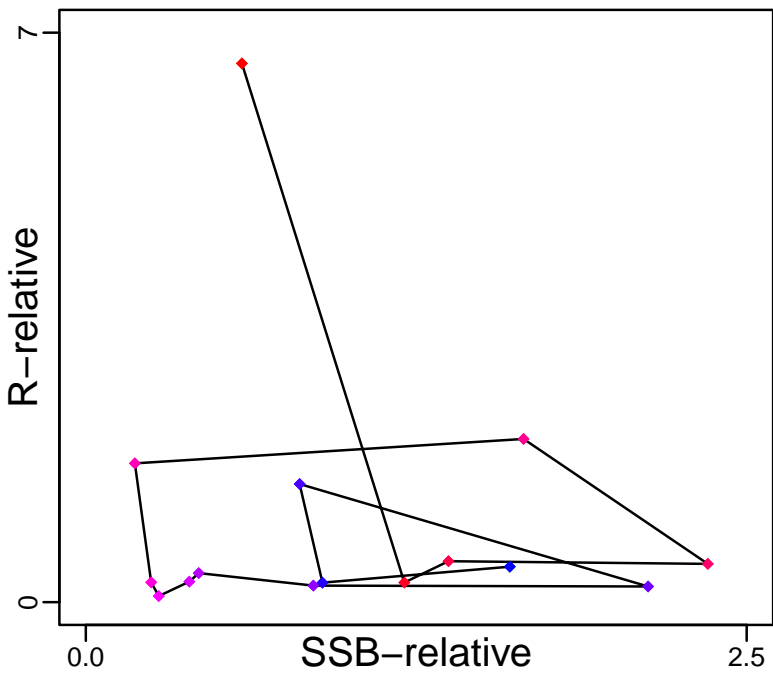
Kobe MSY\*



Kobe MGT\*



Spawner Recruit (2004–2018–ICESIMP2021)



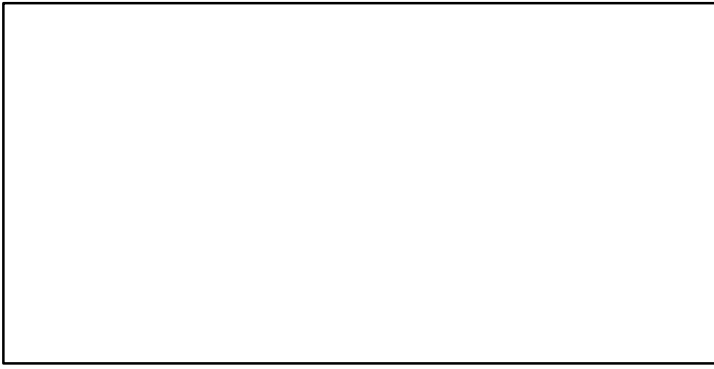
Production\*



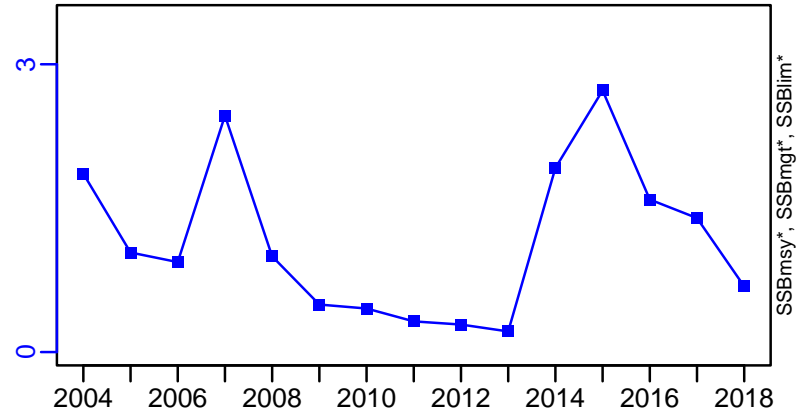
◆ Start Year ◆ End Year \* No Data

Striped red mullet ICES 3a-4-7d [STRMULLIIIa-IV-VIId]

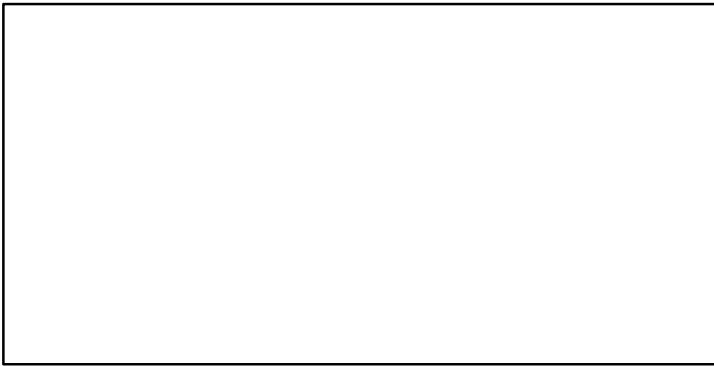
TB\*



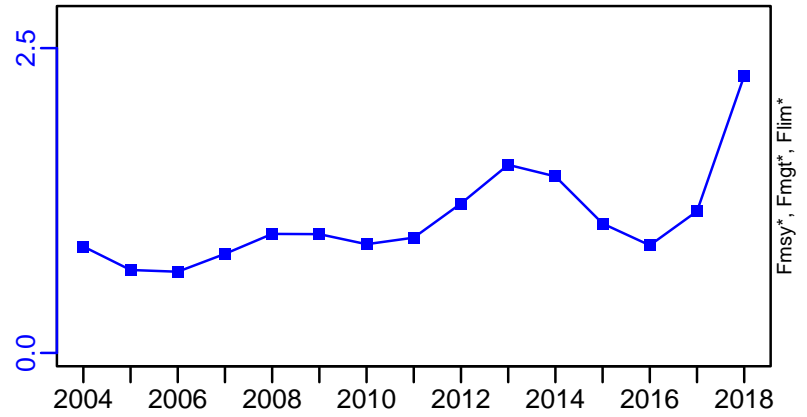
SSB-relative (2004-2018-ICESIMP2021)



TN \*



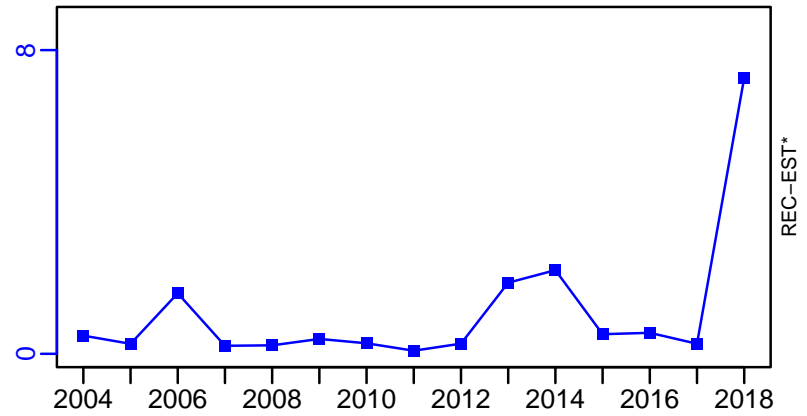
F-relative (2004-2018-ICESIMP2021)



ER\*

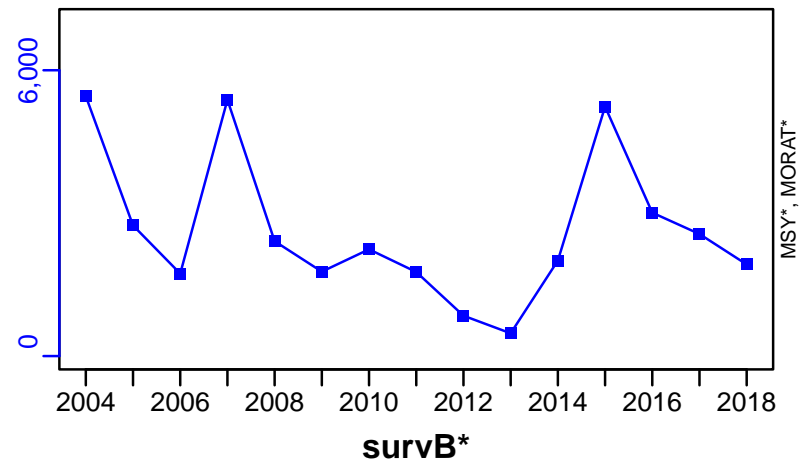


R-relative (2004-2018-ICESIMP2021)

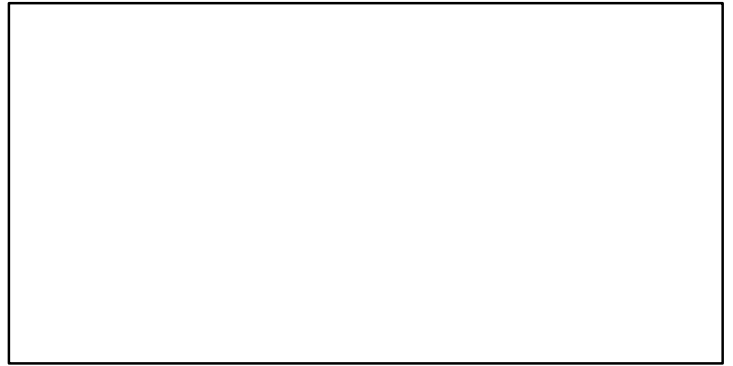


Striped red mullet ICES 3a–4–7d [STRMULLIIIa–IV–VIIId]

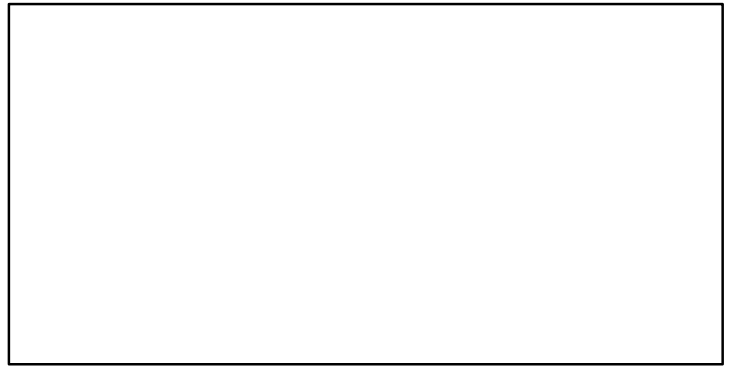
TC–MT, TL\*, RecC\* (2004–2018–ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



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



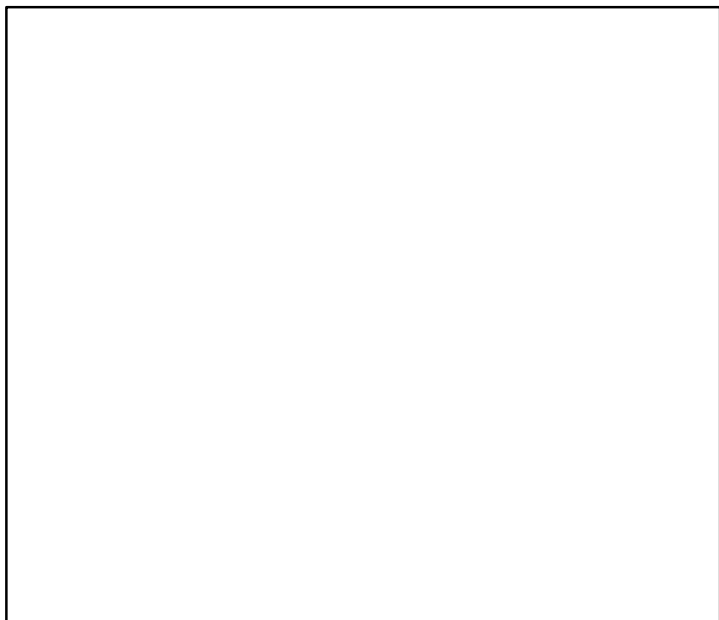
## Striped red mullet ICES 6-7abcefg hijk-8-9a [STRMULLVI-VIIabcefg hijk-VIII-IXa]

Metadata	
<b>Scientific Name</b>	Mullus surmuletus
<b>Current Assess ID</b>	WGWIDE-STRMULLVI-VIIabcefg hijk-VIII-IXa-1979-2019-ICESIMP2021-2
<b>Area</b>	ICES 6-7abcefg hijk-8-9a
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Widely Distributed Stocks
<b>Asmts in RAM</b>	2014, 2016, 2019

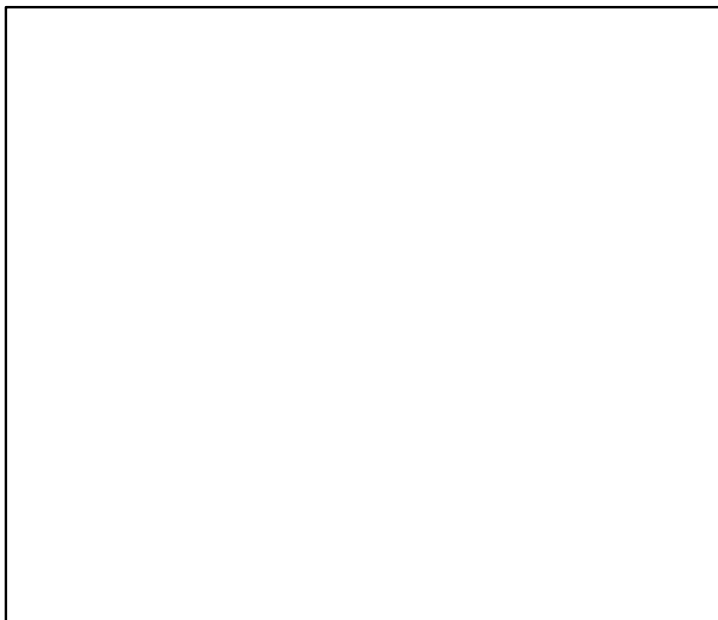
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	1850		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

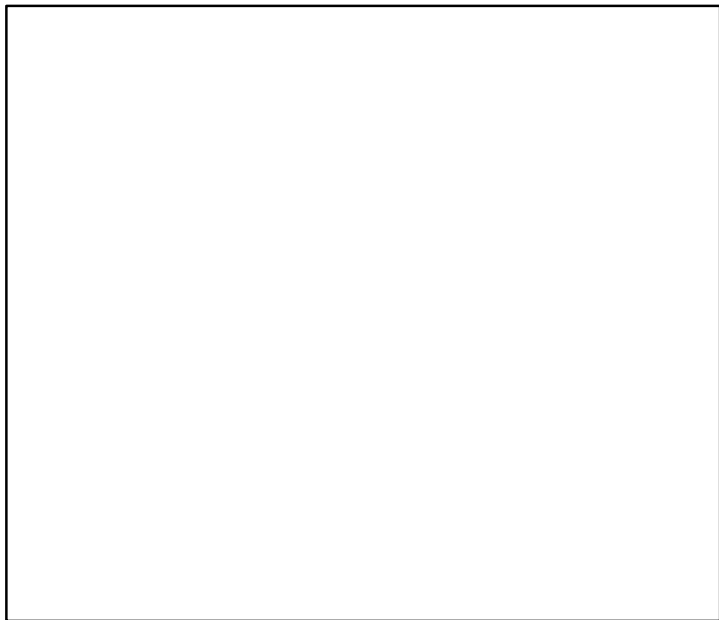
**Kobe MSY\***



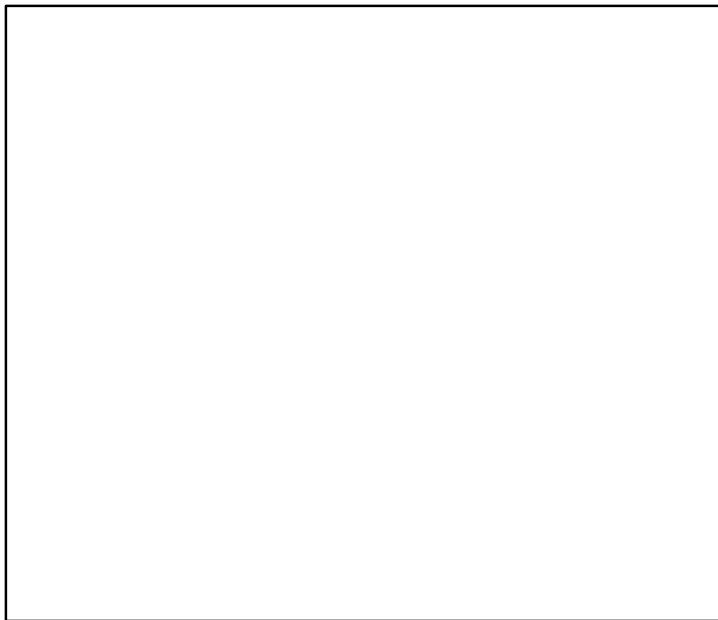
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

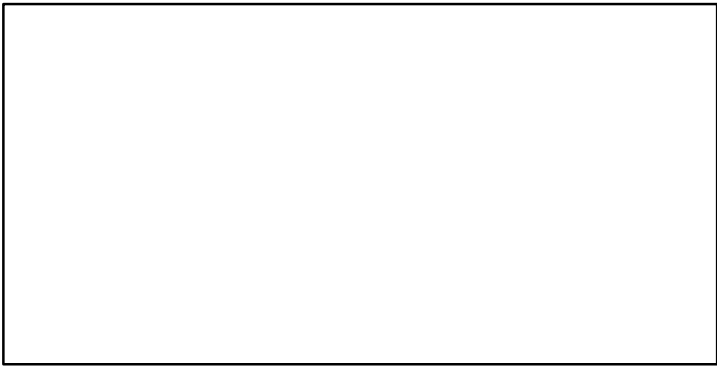
TB\*



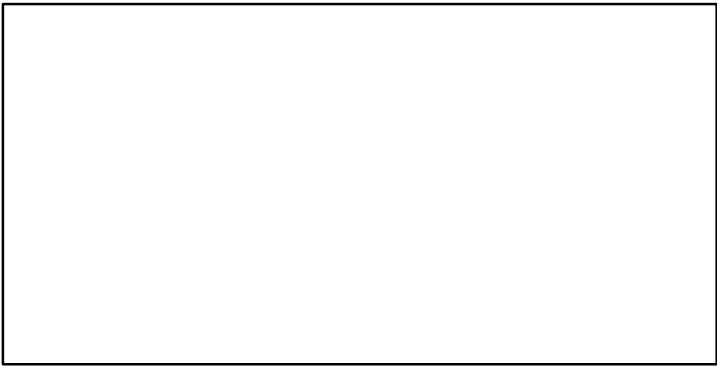
SSB\*



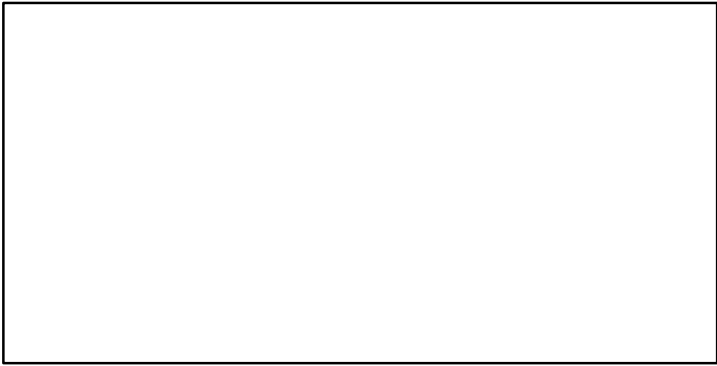
TN \*



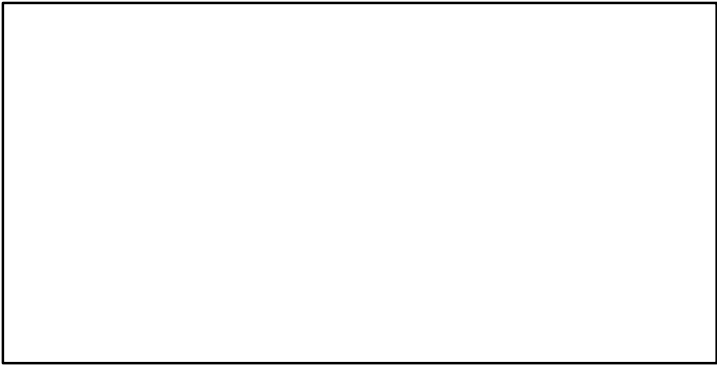
F\*



ER\*

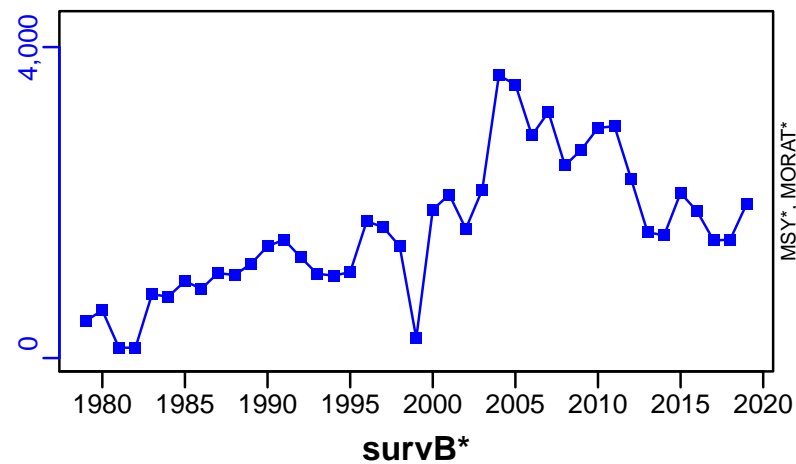


Recruits\*

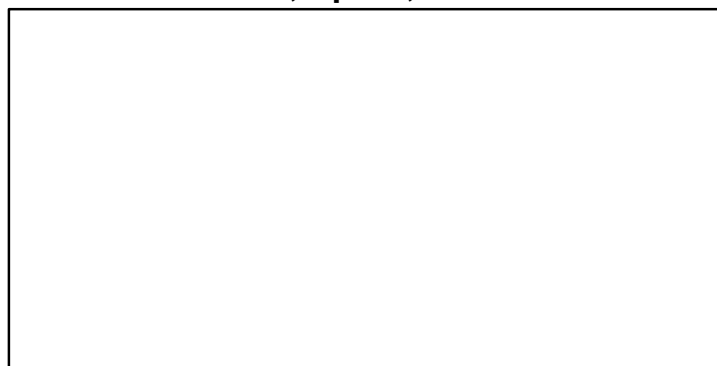


Striped red mullet ICES 6–7abcefg hijk–8–9a [STRMULLVI–VIIlabcefg hijk–VIII–IXa]

TL–MT, TC\*, RecC\* (1979–2019–ICESIMP2021–2)



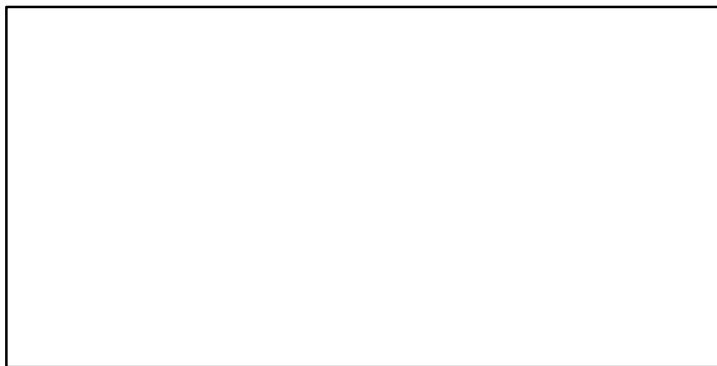
TAC\*, Cpair\*, Cadv\*



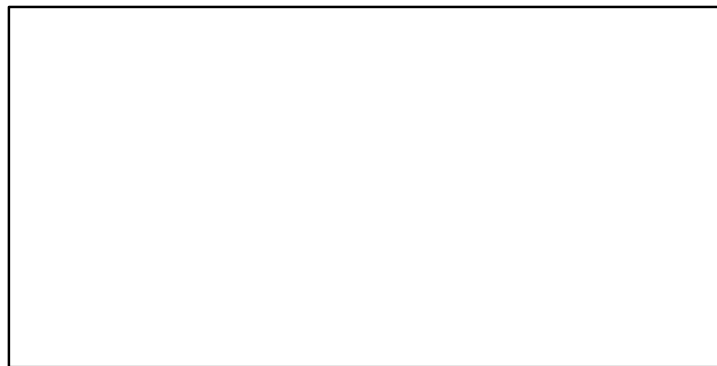
CPUE\*



EFFORT\*



CdivMSY\*



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

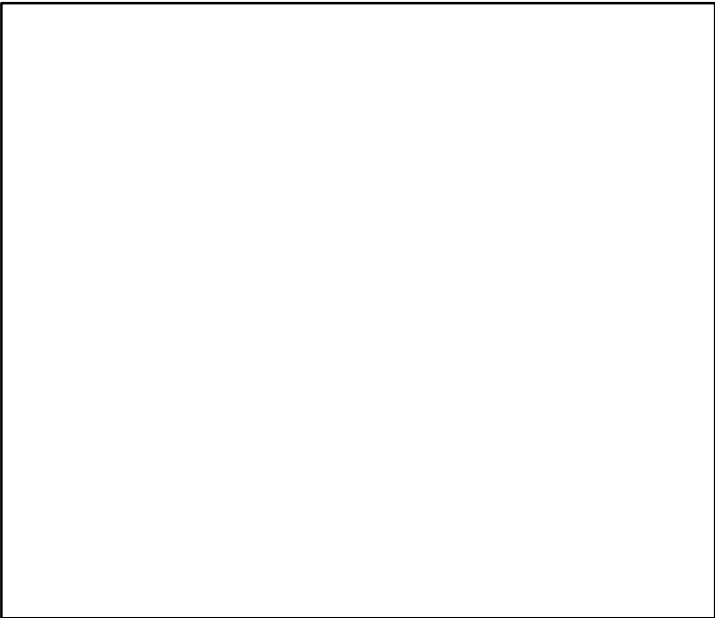
## Sleek unicornfish Main Hawaiian Islands [SUNIMHI]

Metadata	
<b>Scientific Name</b>	Naso hexacanthus
<b>Current Assess ID</b>	PIFSC-SUNIMHI-2004-2015-SISIMP2021
<b>Area</b>	Main Hawaiian Islands
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Pacific Fisheries Science Center
<b>Asmts in RAM</b>	2015

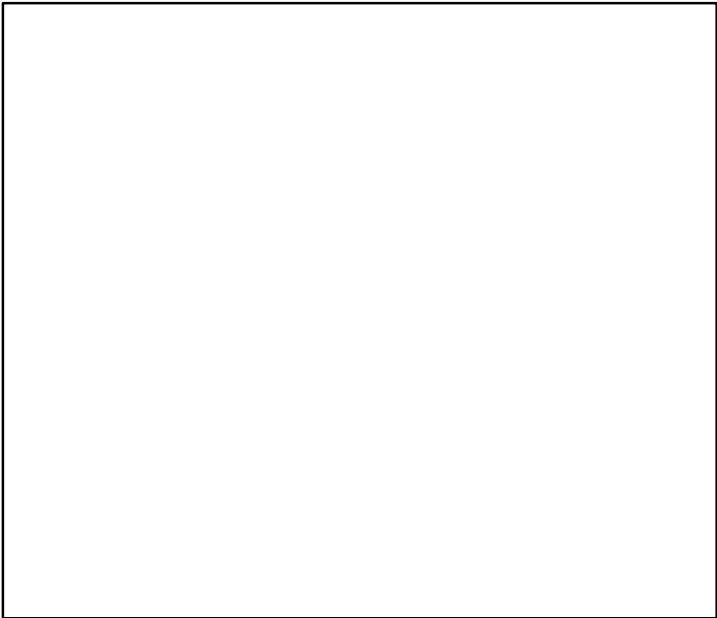
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	1.579		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

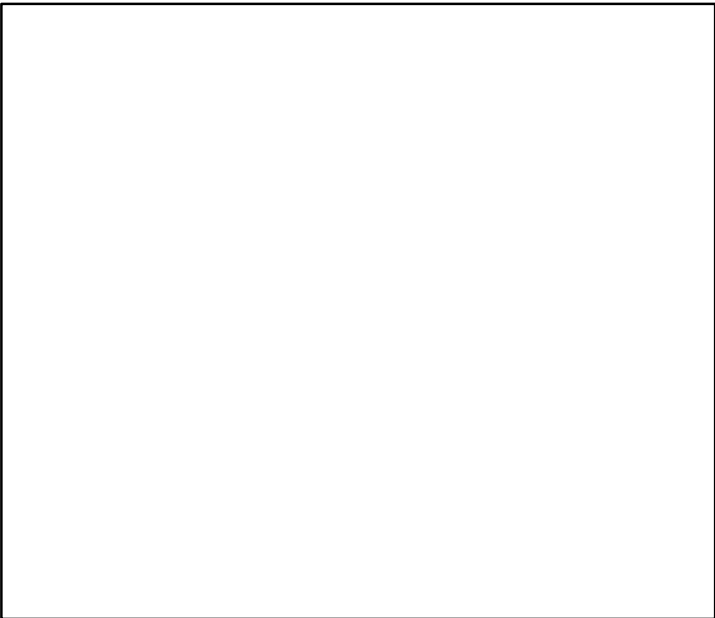
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Sleek unicornfish Main Hawaiian Islands [SUNIMHI]

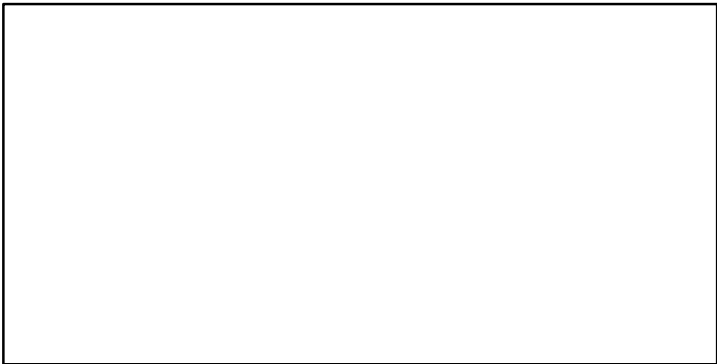
TB\*



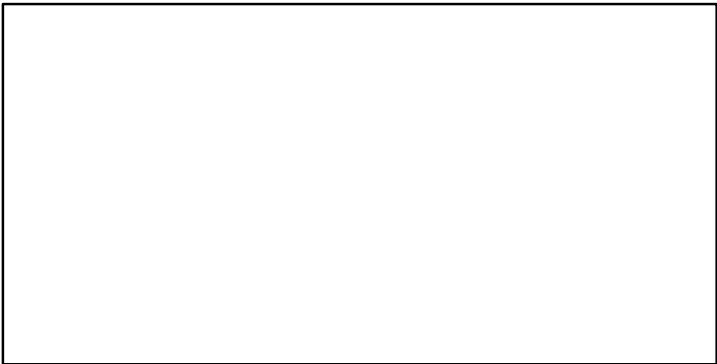
SSB\*



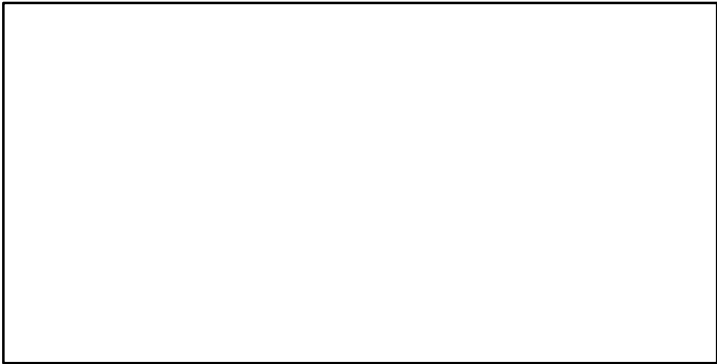
TN \*



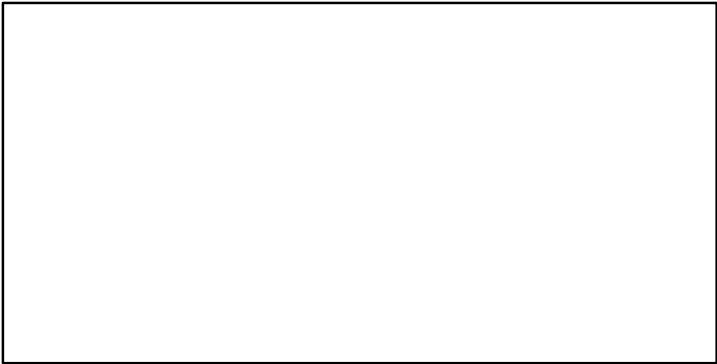
F\*



ER\*



Recruits\*



■ Listed time series

--- MSY-based BRP

--- Target BRP

--- Lim BRP

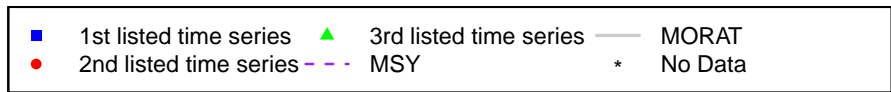
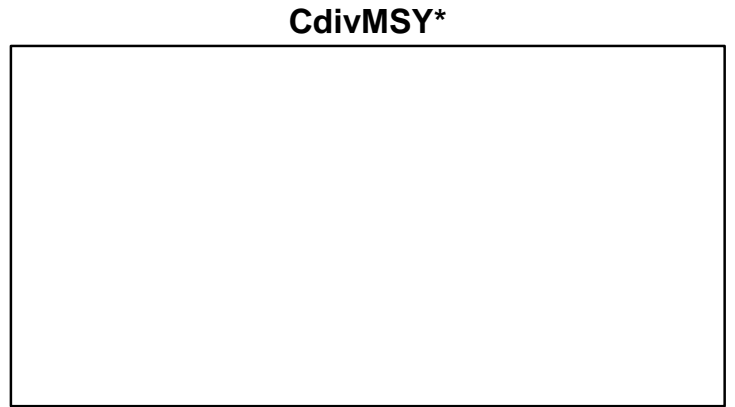
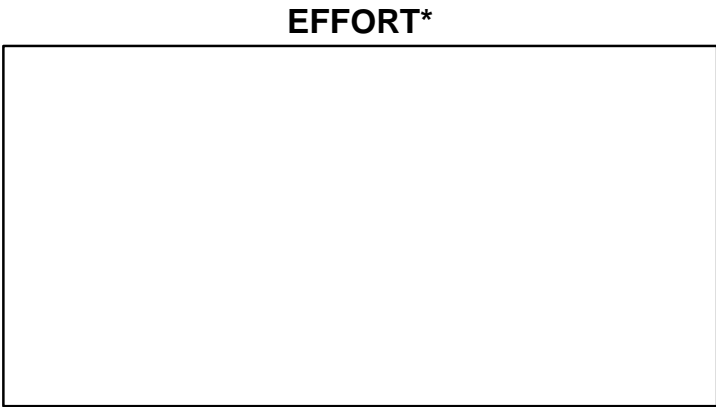
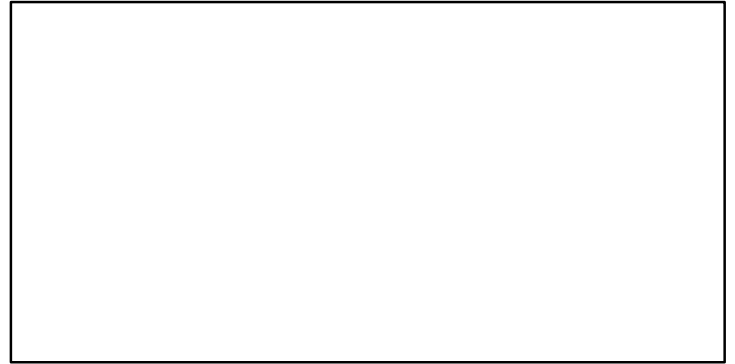
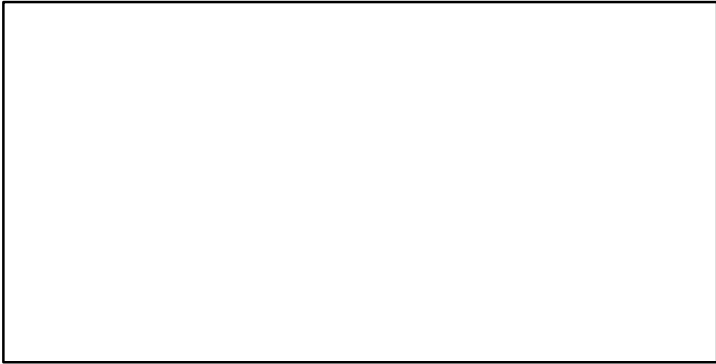
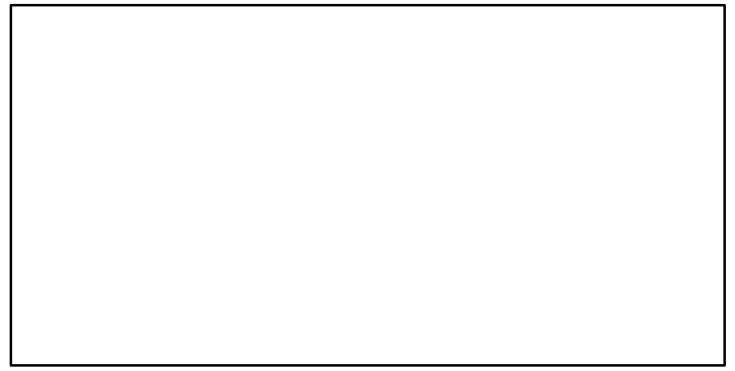
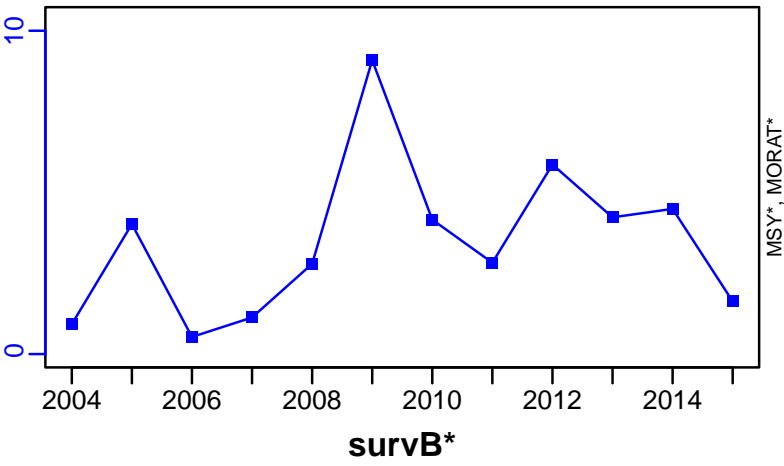
— Rec-Est

\* No Data

# Sleek unicornfish Main Hawaiian Islands [SUNIMHI]

TC-MT, TL\*, RecC\* (2004–2015–SISIMP2021)

TAC\*, Cpair\*, Cadv\*





## School whiting Southeast Australia [SWHITSE]

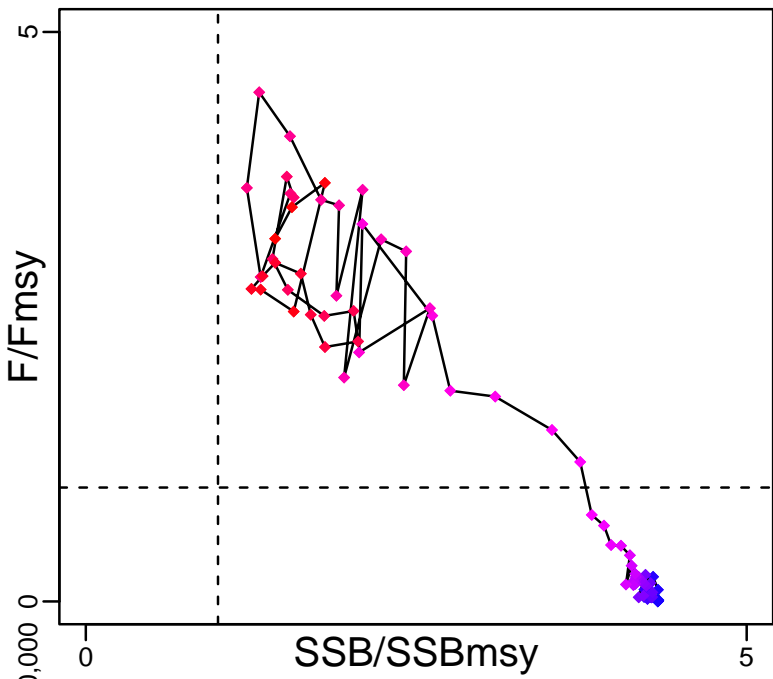
Metadata	
<b>Scientific Name</b>	Sillago flindersi
<b>Current Assess ID</b>	CSIRO-SWHITSE-1942-2019-MOESENER
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2019, 2007, 2008, 2016

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2019	2489
<b>Fmsy</b>	Fmsy-1/yr	2019	0.341
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	5174
<b>Fmgt</b>	Fmgt-1/yr	2019	0.211
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2019	19,984
<b>SSB0</b>	SSB0-MT	2019	10,780
<b>MSY</b>	MSY-MT	2019	3036
<b>M</b>	M-1/yr	2019	0.6
<b>TBlim</b>	TBlim-MT	2007	1556
<b>SSBlim</b>	SSBlim-MT	2019	2156
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

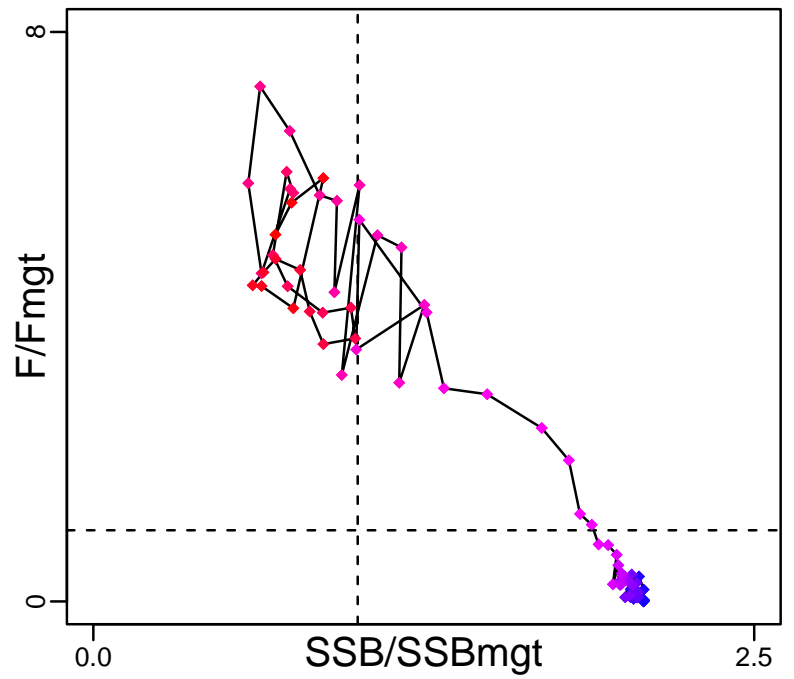
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	10,931	-	-
<b>SSB</b>	SSB-MT	2019	3565	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	$3.27 \times 10^{14}$	-	-
<b>F</b>	F-1/yr	2019	1.085	-	-
<b>ER</b>	ER-ratio	2019	0.198	-	-
<b>TC</b>	TC-MT	2019	1752		
<b>TL</b>	TL-MT	2016	1440		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2019	1.432		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2019	3.185		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	0.689		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	5.154		
<b>ER/ERmgt</b>	-	-	-		

# School whiting Southeast Australia [SWHITSE]

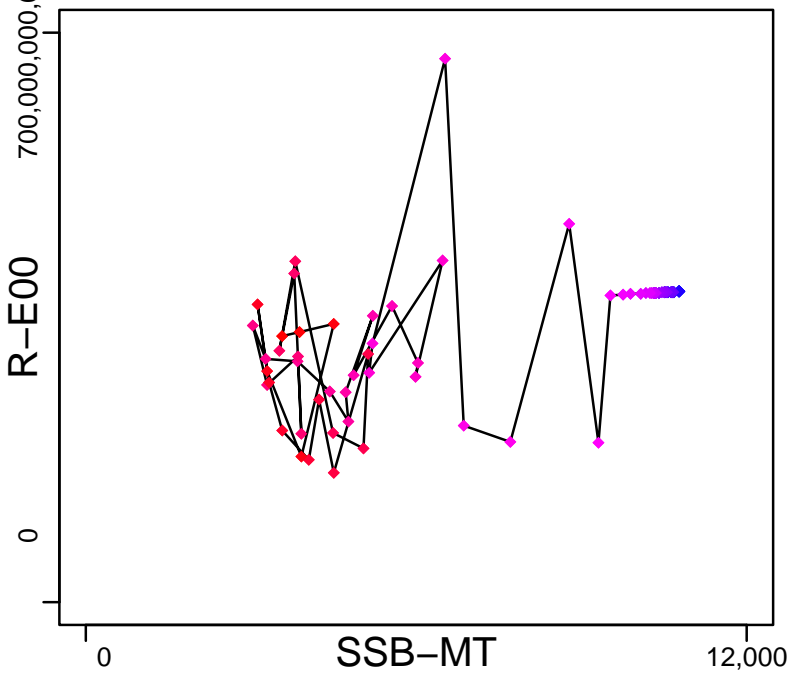
Kobe MSYpref (1942–2019–MOESENEDER)



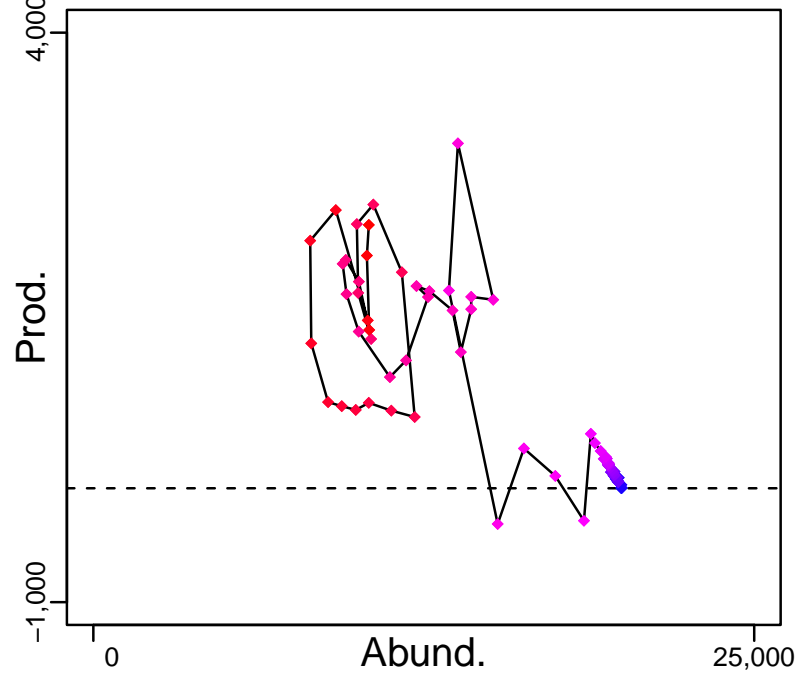
Kobe MGTpref (1942–2019–MOESENEDER)



Spawner Recruit (1942–2019–MOESENEDER)



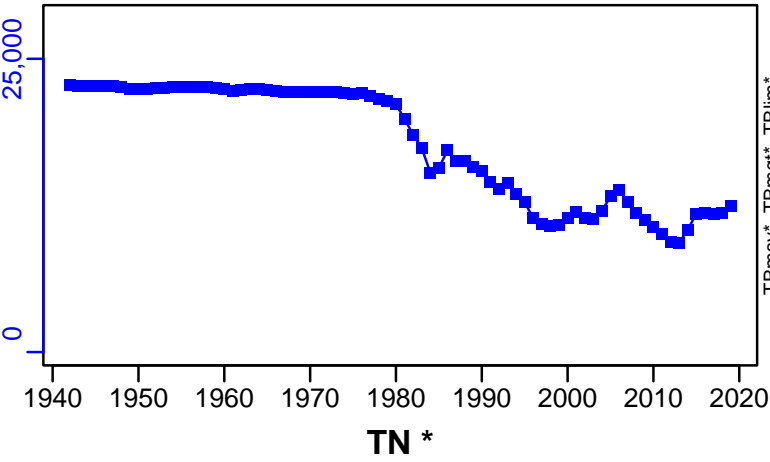
Production (1942–2019–MOESENEDER)



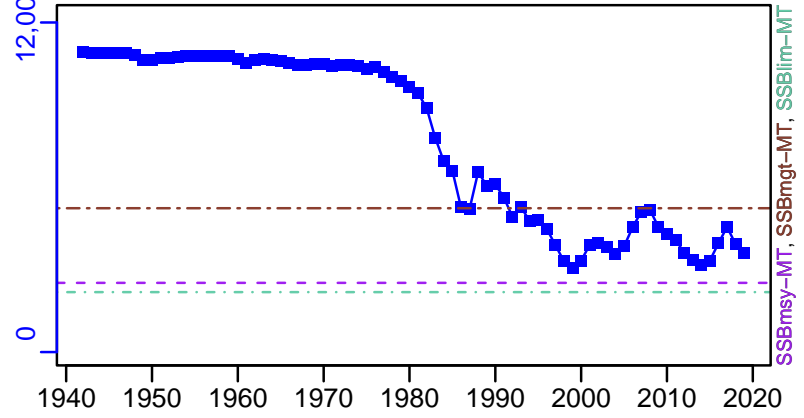
◆ Start Year ◆ End Year \* No Data

# School whiting Southeast Australia [SWHITSE]

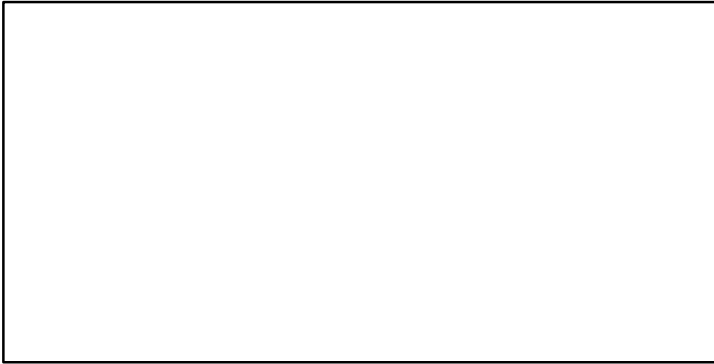
TB-MT (1942-2019-MOESENER)



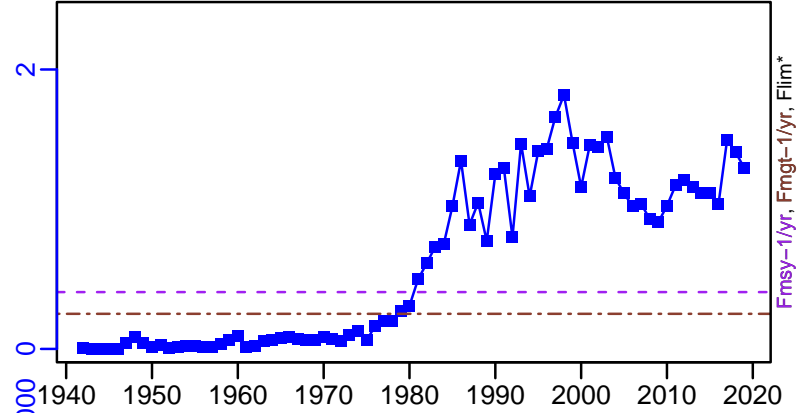
SSB-MT (1942-2019-MOESENER)



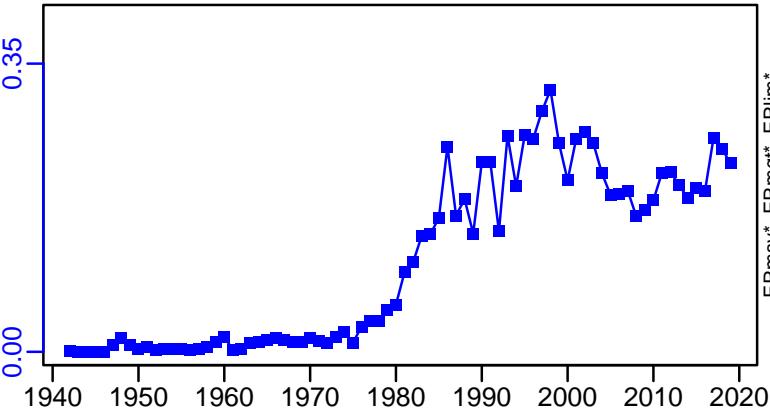
TN \*



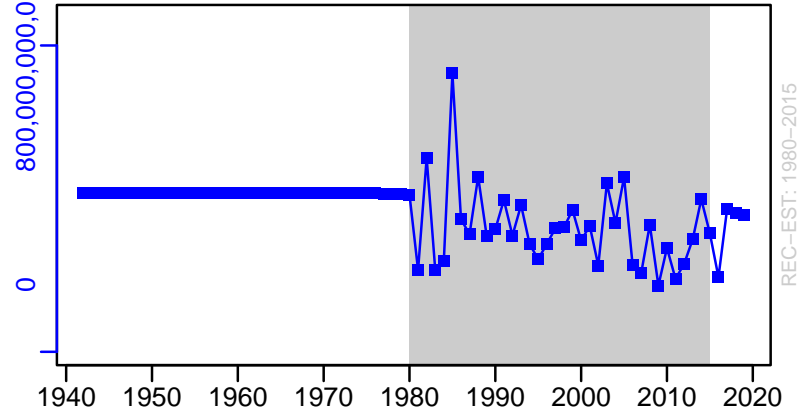
F-1/yr (1942-2019-MOESENER)



ER-ratio (1942-2019-MOESENER)

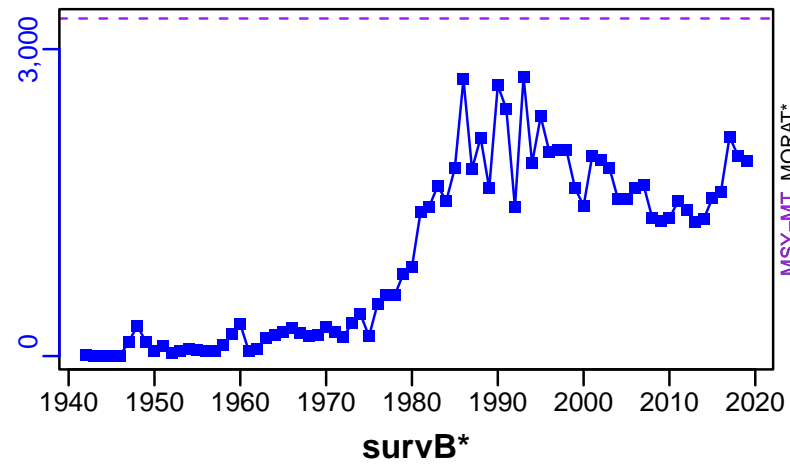


R-E00 (1942-2019-MOESENER)



# School whiting Southeast Australia [SWHITSE]

TC-MT, TL\*, RecC\* (1942-2019-MOESENER)



TAC\*, Cpair\*, Cadv\*



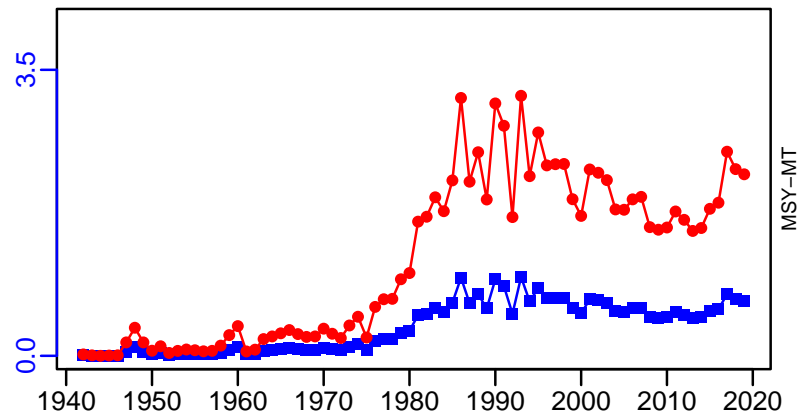
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1942-2019-MOESENER)



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

## Tarakihi Eastern New Zealand [TARAKENZ]

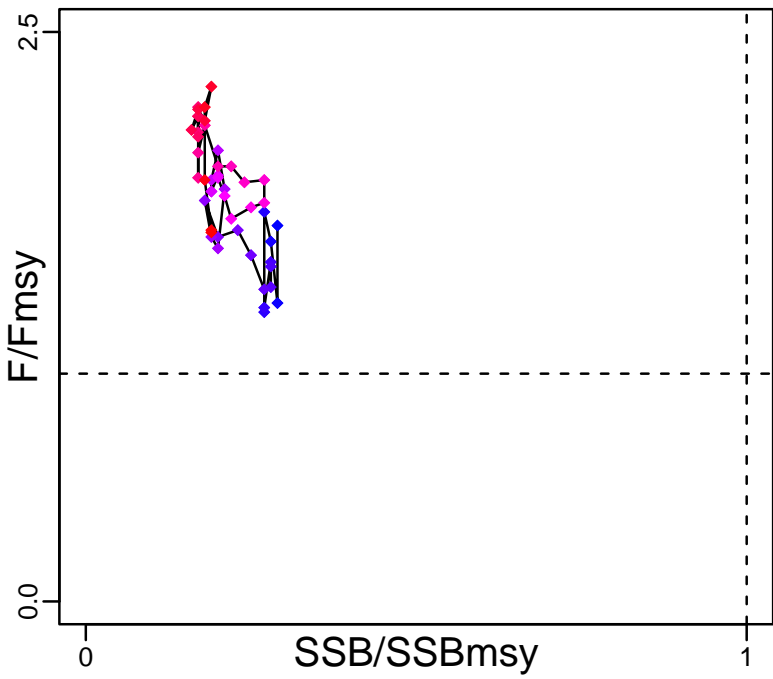
Metadata	
<b>Scientific Name</b>	Nemadactylus macropterus
<b>Current Assess ID</b>	NZMFishINSHOREWG-TARAKENZ-1932-2021-LANGLEY
<b>Area</b>	Eastern New Zealand
<b>Management Authority</b>	Ministry of Fisheries, New Zealand national management
<b>Assessor</b>	Inshore Working Group
<b>Asmts in RAM</b>	2021

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-extr-MT	2021	88,283
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2021	35,302
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2021	4213
<b>M</b>	M-1/yr	2021	0.1
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	17,651
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

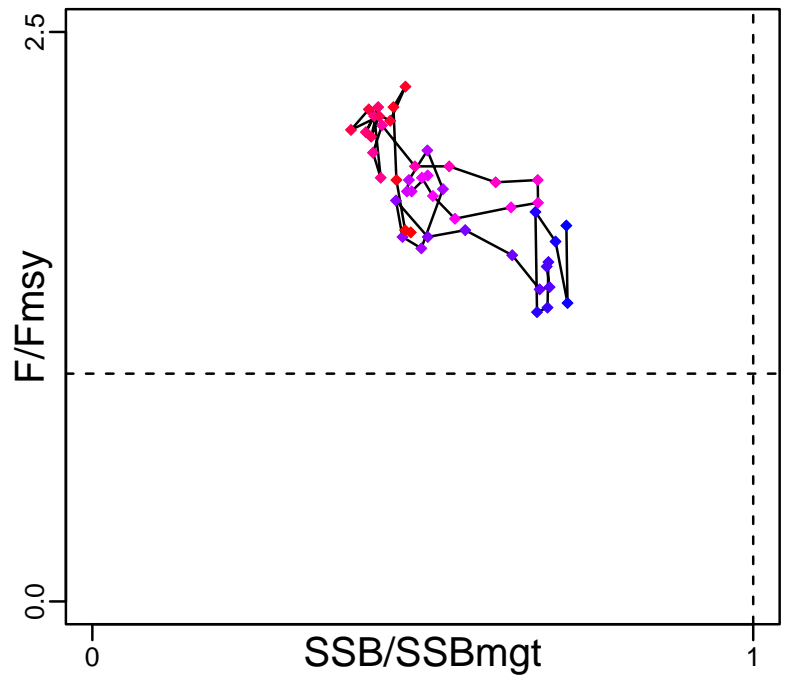
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2021	17,009	Females	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	10,285,200	Both	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2021	3191		
<b>TL</b>	TL-MT	2021	3031		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSBdivSSBmsy-dimensionless	2021	0.19		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2021	1.62		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	0.482		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Tarakihi Eastern New Zealand [TARAKENZ]

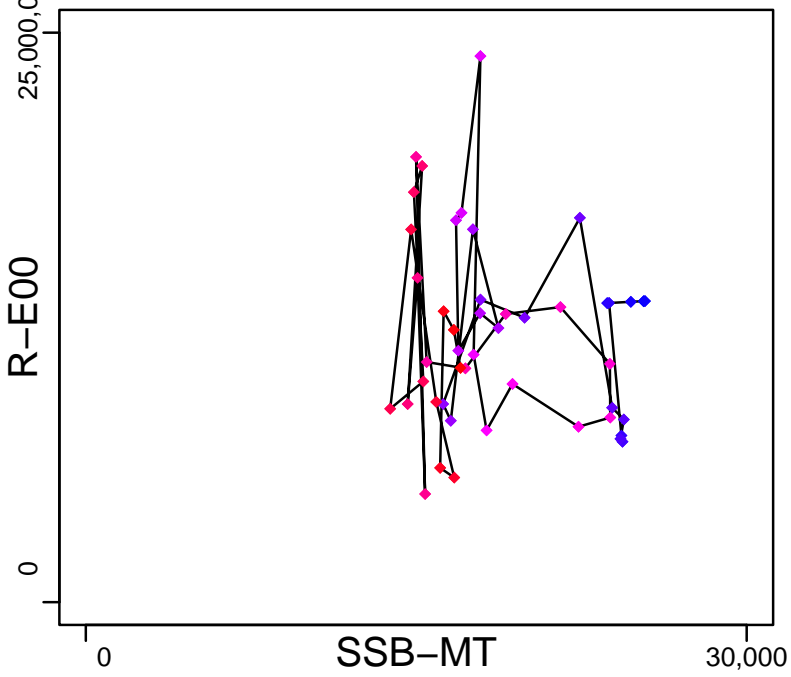
Kobe MSYpref (1932–2021–LANGLEY)



Kobe MGTpref (1932–2021–LANGLEY)



Spawner Recruit (1932–2021–LANGLEY)



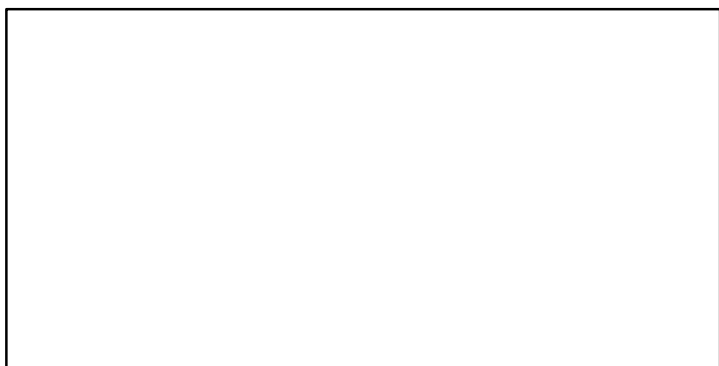
SSB/SSBmgt  
Production\*



◆ Start Year ◆ End Year \* No Data

# Tarakihi Eastern New Zealand [TARAKENZ]

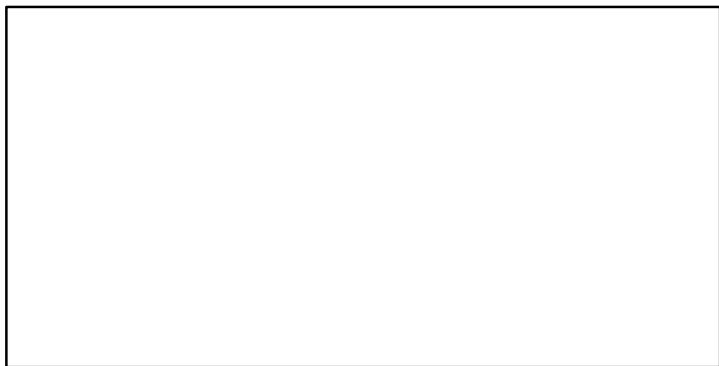
TB\*



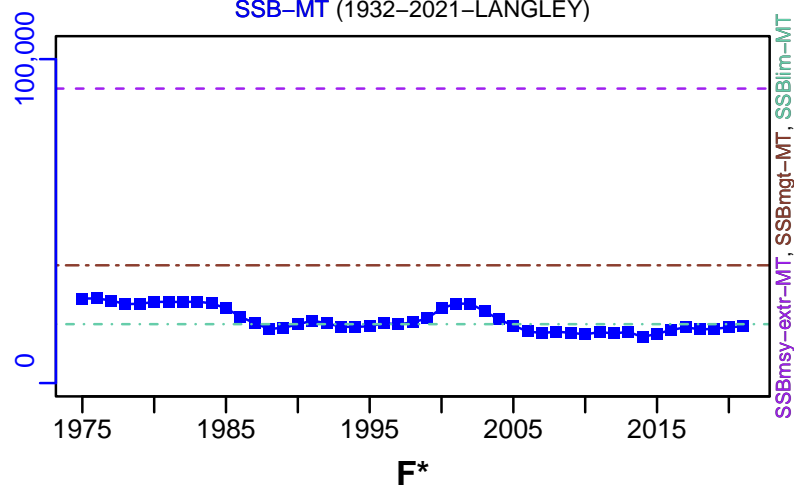
TN \*



ER\*



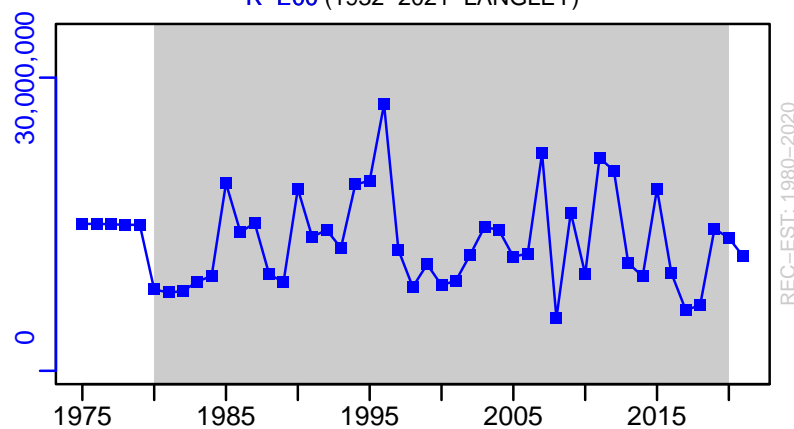
SSB-MT (1932-2021-LANGLEY)



F\*

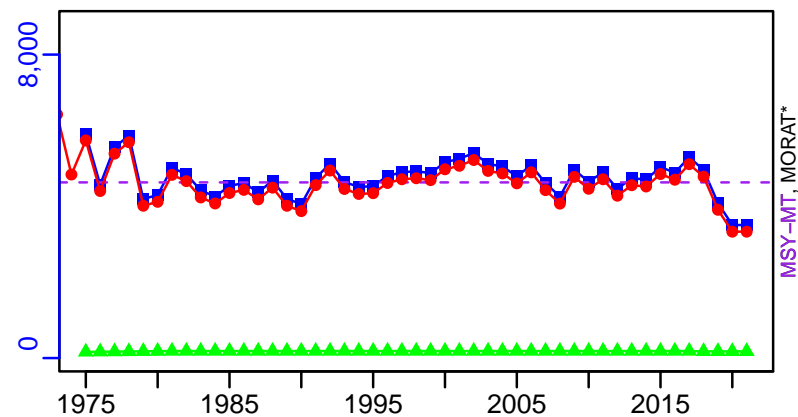


R-E00 (1932-2021-LANGLEY)

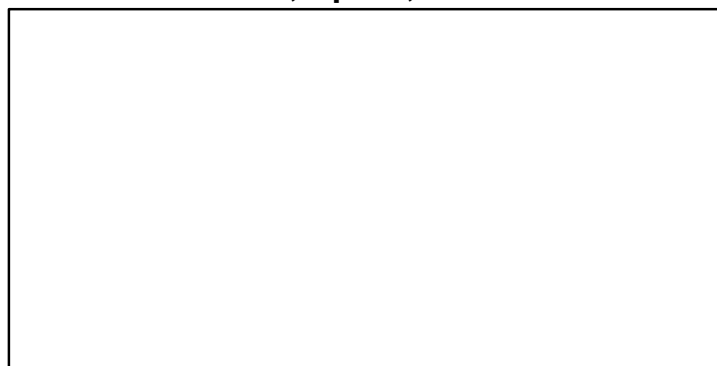


# Tarakihi Eastern New Zealand [TARAKENZ]

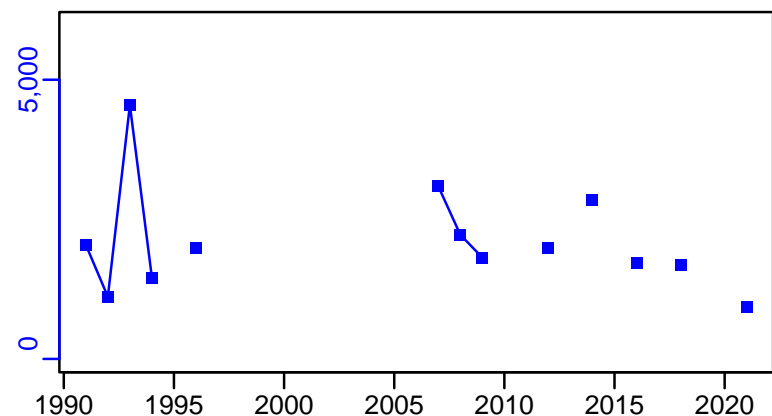
TC-MT, TL-MT, RecC-MT (1932-2021-LANGLEY)



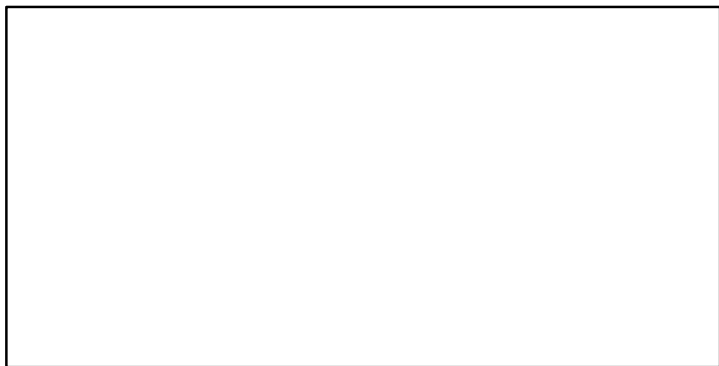
TAC\*, Cpair\*, Cadv\*



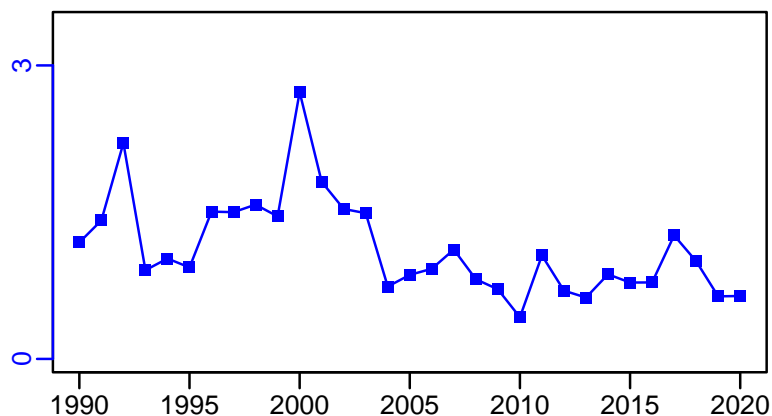
survB\_index-index (1932-2021-LANGLEY)



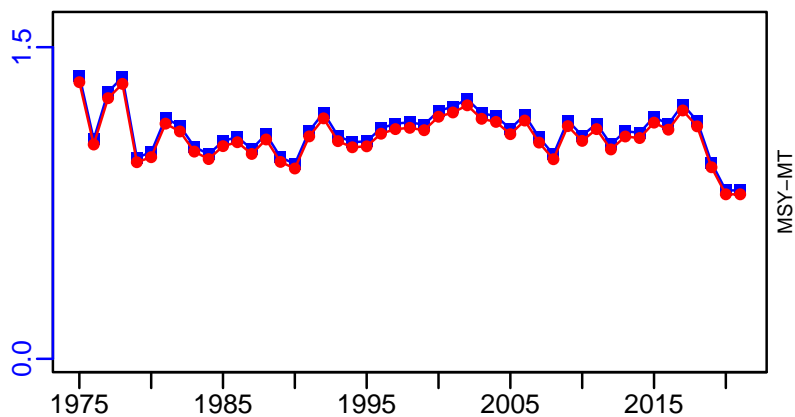
EFFORT\*



CPUE-index (1932-2021-LANGLEY)



TC-MT/MSY-MT, CdivMEANC-ratio, (1932-2021-LANGLEY)



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



## Tarakihi Sub-Antarctic [TARAKSA]

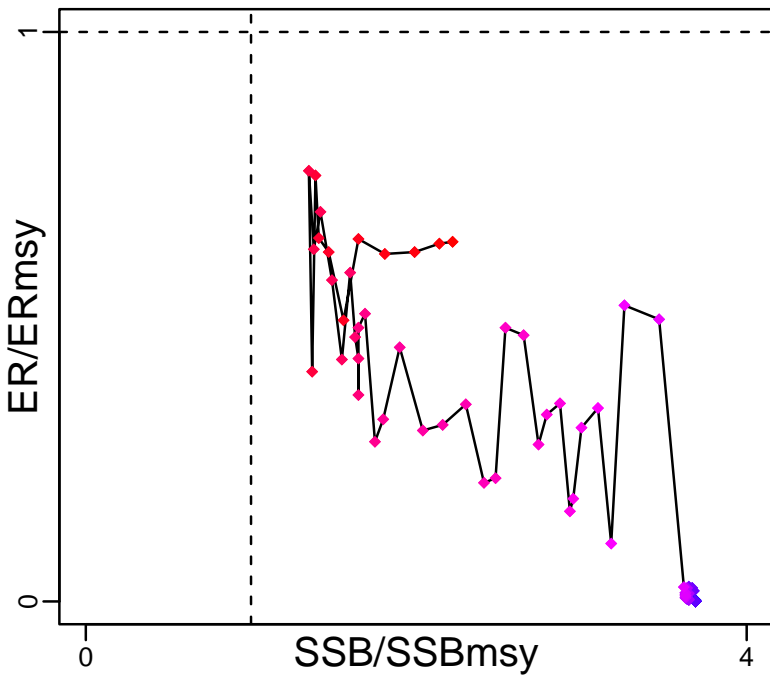
Metadata	
<b>Scientific Name</b>	Nemadactylus macropterus
<b>Current Assess ID</b>	NIWA-TARAKSA-1932-2007-CORDUE
<b>Area</b>	Sub-Antarctic
<b>Management Authority</b>	Ministry of Fisheries, New Zealand national management
<b>Assessor</b>	National Institute of Water and Atmospheric Research
<b>Asmts in RAM</b>	2007

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2007	11,187
<b>SSBmsy</b>	SSBmsy-MT	2007	4864
<b>Fmsy</b>	Fmsy-1/yr	2007	0.1
<b>ERmsy</b>	ERmsy-ratio	2007	0.061
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	SSB0-MT	2007	17,950
<b>MSY</b>	MSY-MT	2007	682
<b>M</b>	M-1/yr	2007	0.1
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

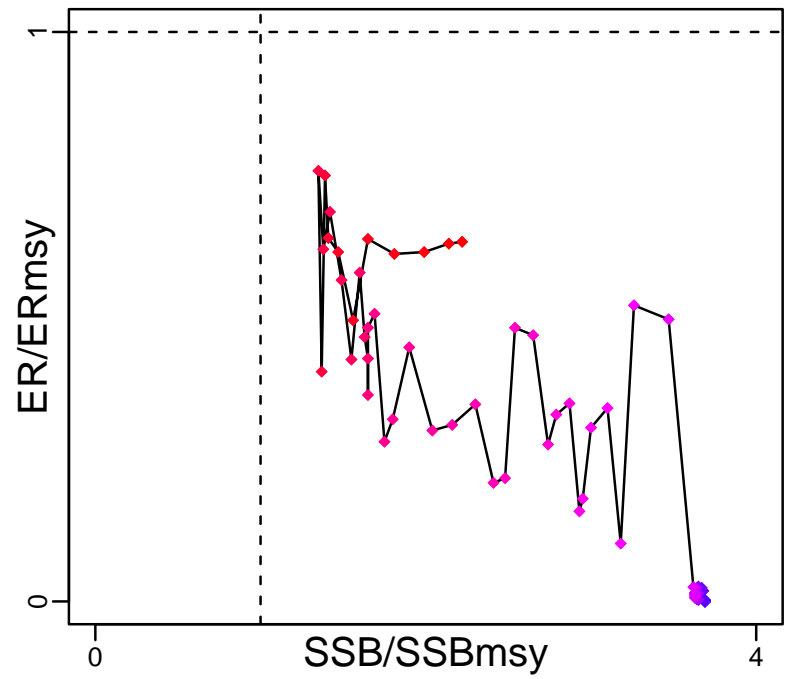
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2007	10,800	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2007	2,310,000	-	0
<b>F</b>	F-1/yr	2007	0.077	-	-
<b>ER</b>	ER-ratio	2007	0.038	-	-
<b>TC</b>	TC-MT	2007	957		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSBdivSSBmsy-dimensionless	2007	2.22		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2007	0.766		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2007	0.632		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Tarakihi Sub-Antarctic [TARAKSA]

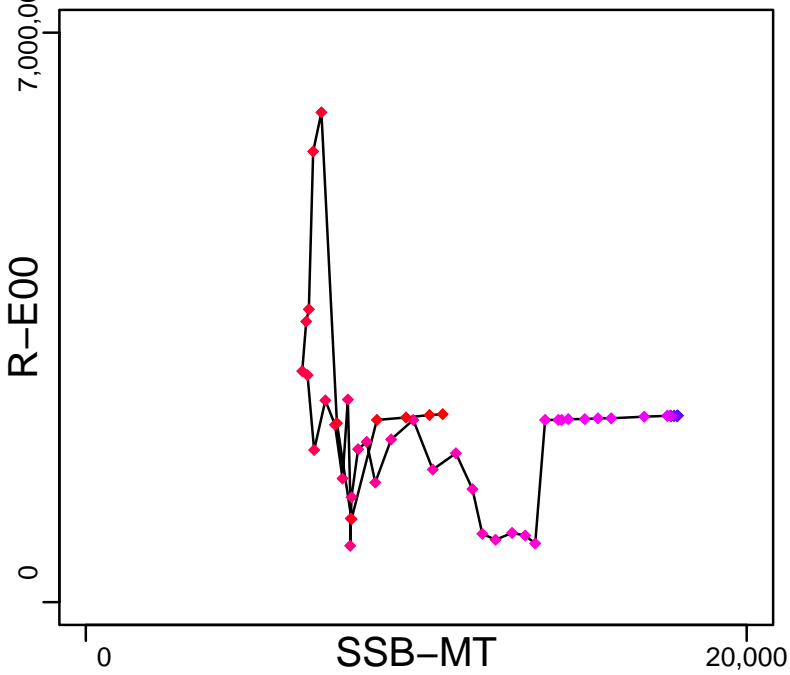
Kobe MSYpref (1932–2007–CORDUE)



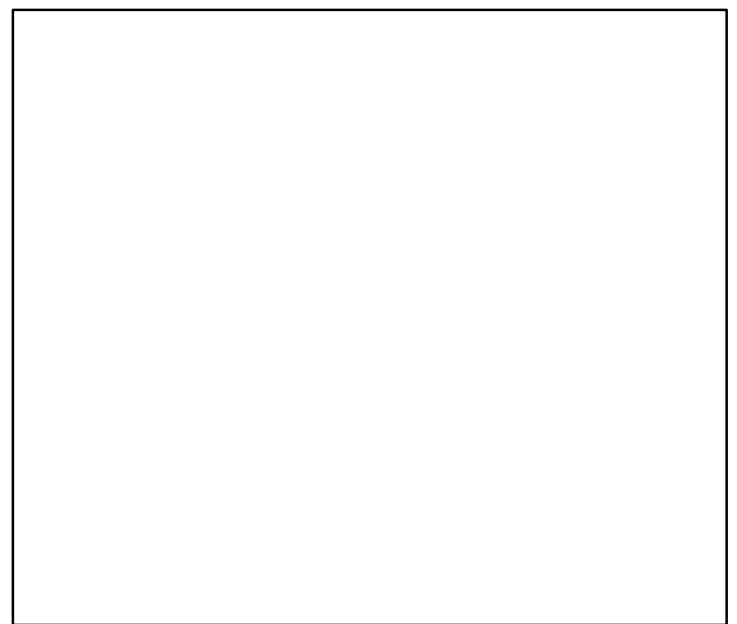
Kobe MGTpref (1932–2007–CORDUE)



Spawner Recruit (1932–2007–CORDUE)



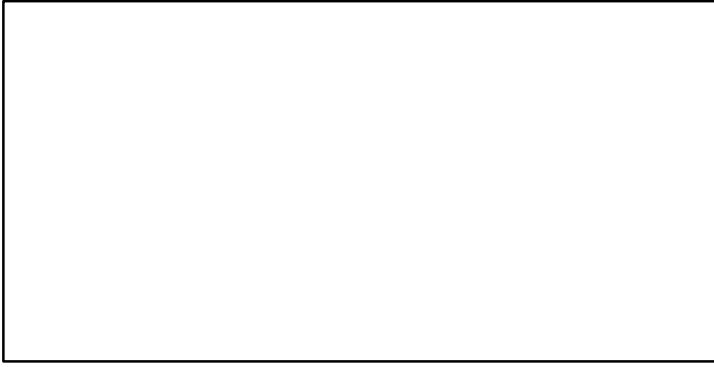
Production\*



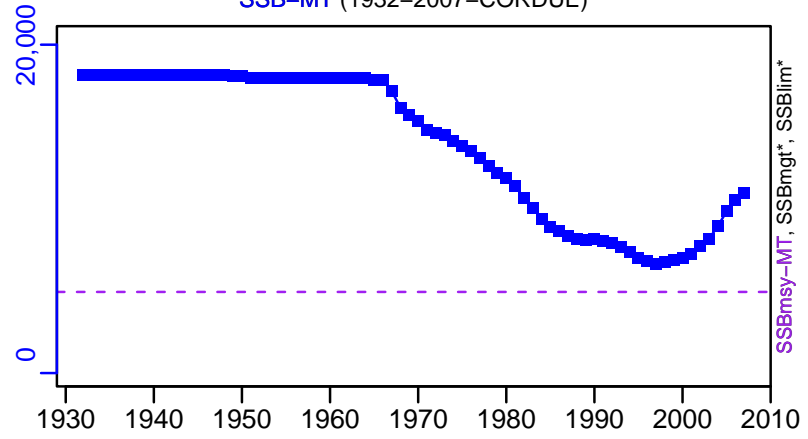
◆ Start Year ◆ End Year \* No Data

# Tarakihi Sub-Antarctic [TARAKSA]

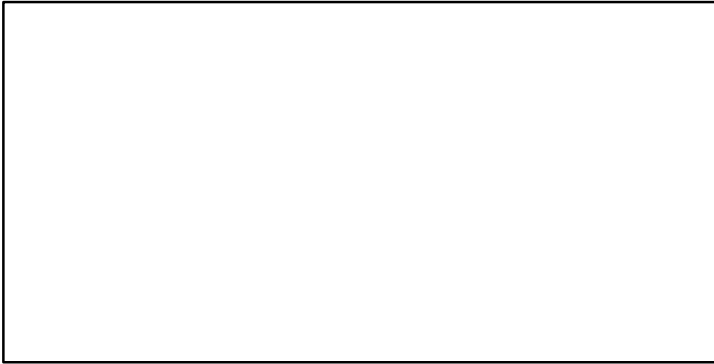
TB\*



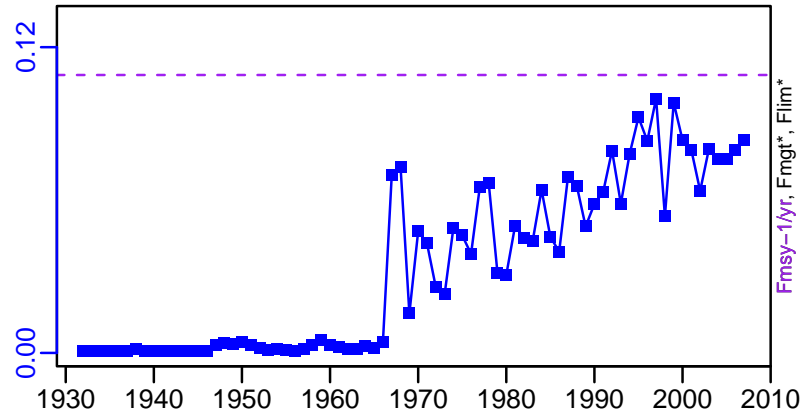
SSB-MT (1932-2007-CORDUE)



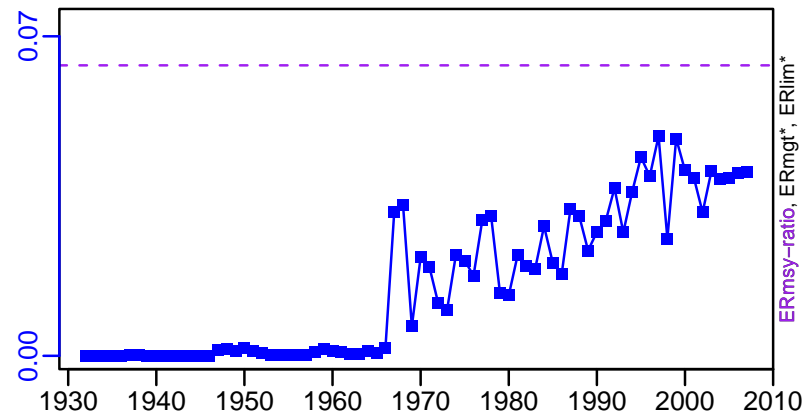
TN \*



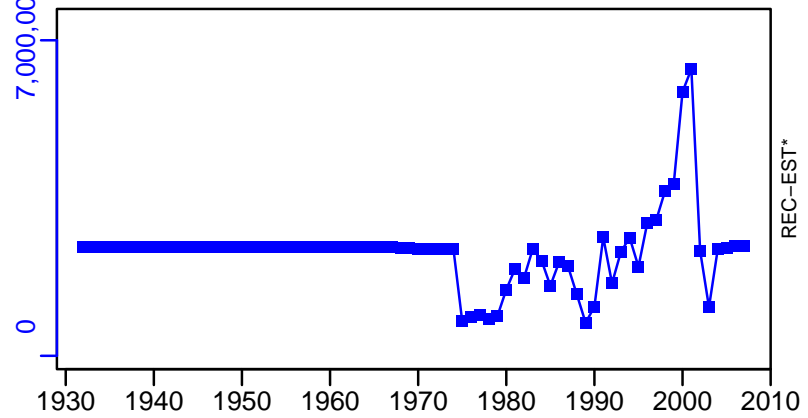
F-1/yr (1932-2007-CORDUE)



ER-ratio (1932-2007-CORDUE)



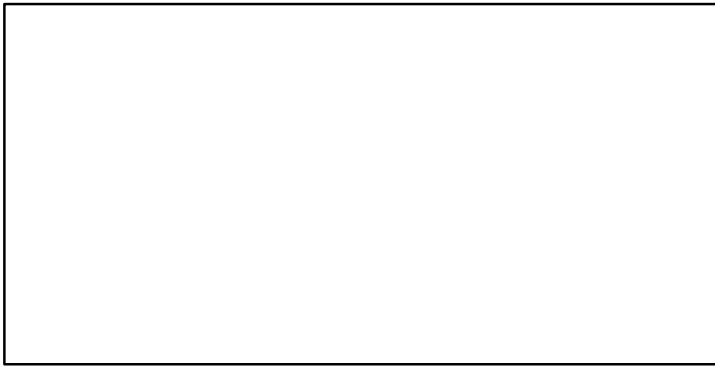
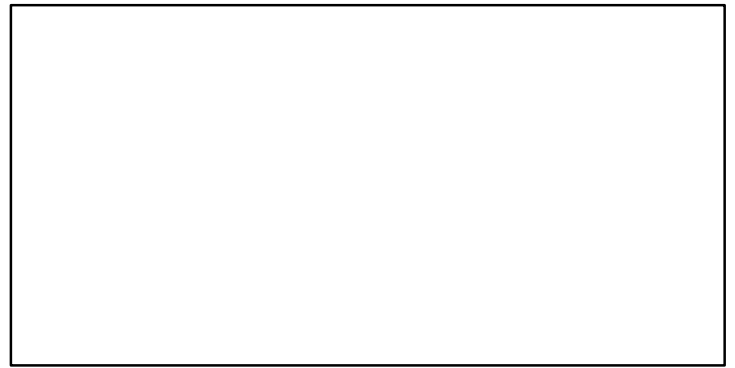
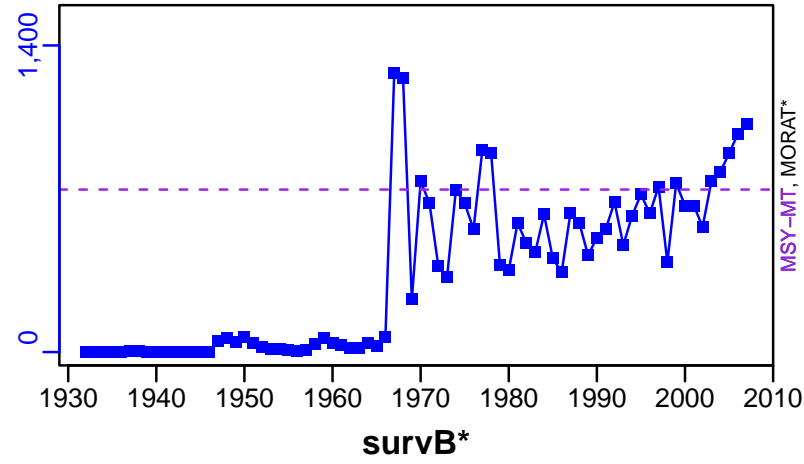
R-E00 (1932-2007-CORDUE)



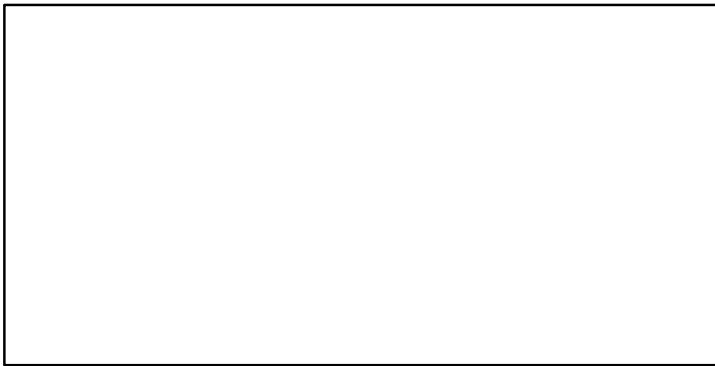
# Tarakihi Sub-Antarctic [TARAKSA]

TC-MT, TL\*, RecC\* (1932-2007-CORDUE)

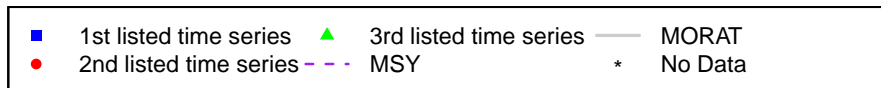
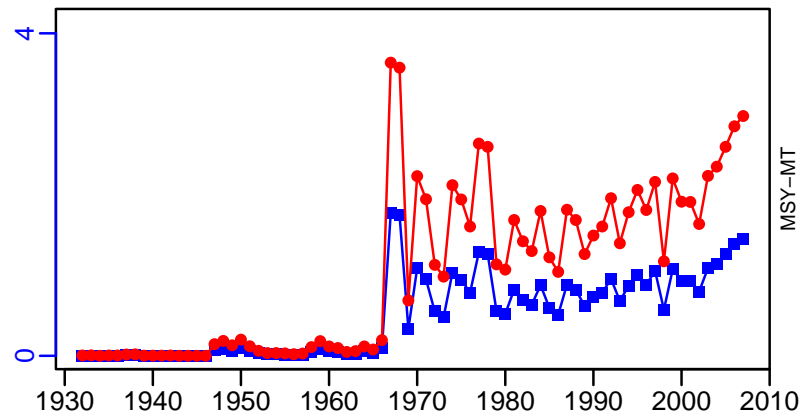
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1932-2007-CORDUE)



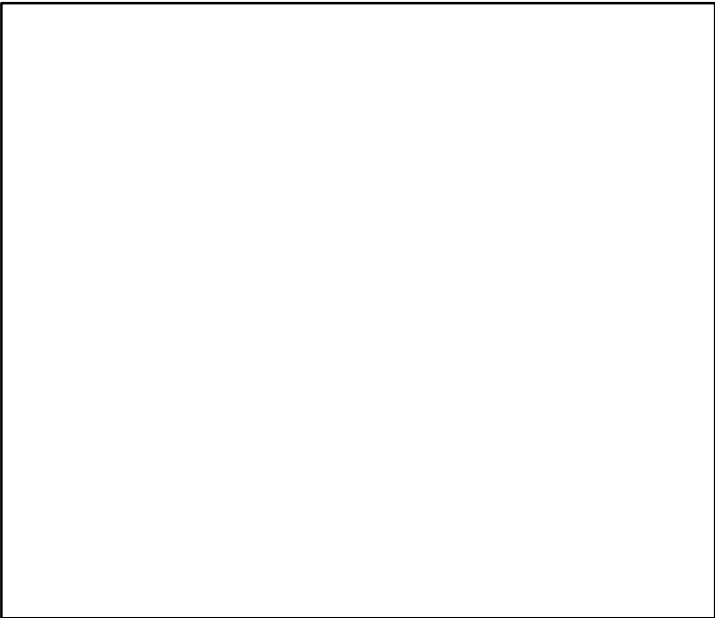
## Threadfin Central West Africa Cote Divoire-Benin [THREADCWACIV-BEN]

Metadata	
<b>Scientific Name</b>	Galeoides decadactylus
<b>Current Assess ID</b>	FAO-DR-THREADCWACIV-BEN-1990-2006-CHING
<b>Area</b>	Central West Africa Cote Divoire-Benin
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2006

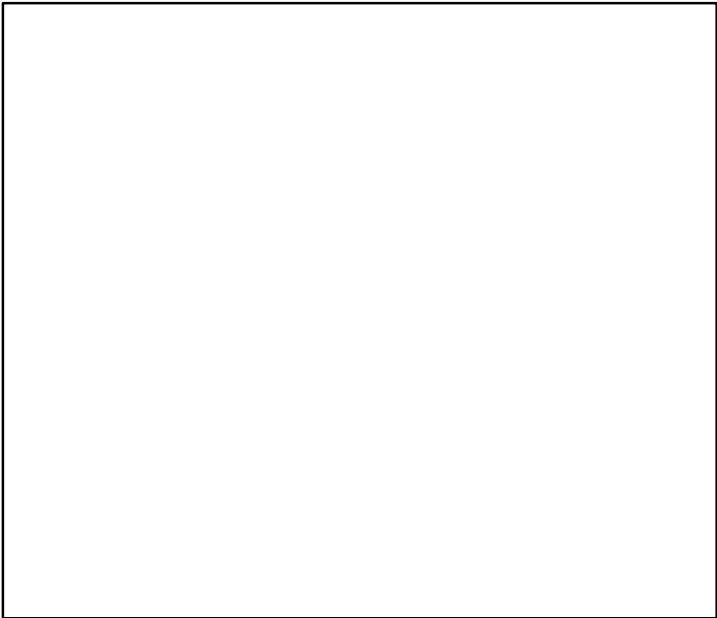
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2006	15	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2006	3980		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

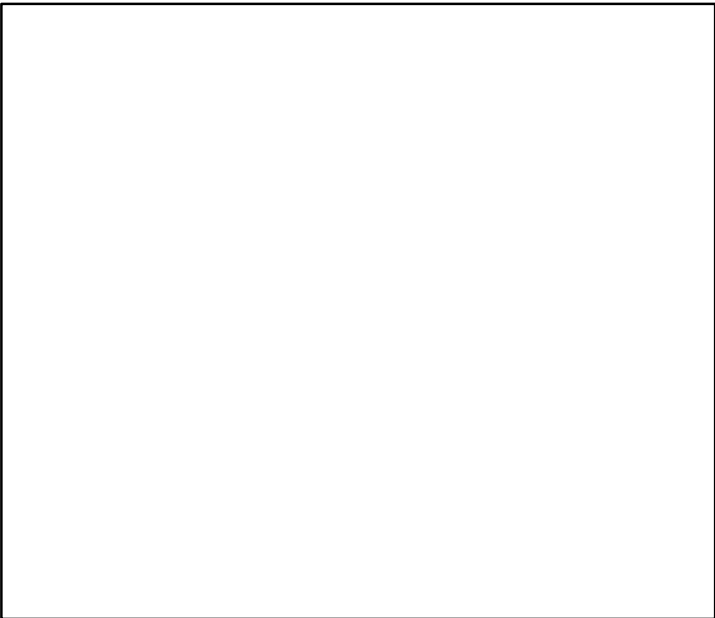
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



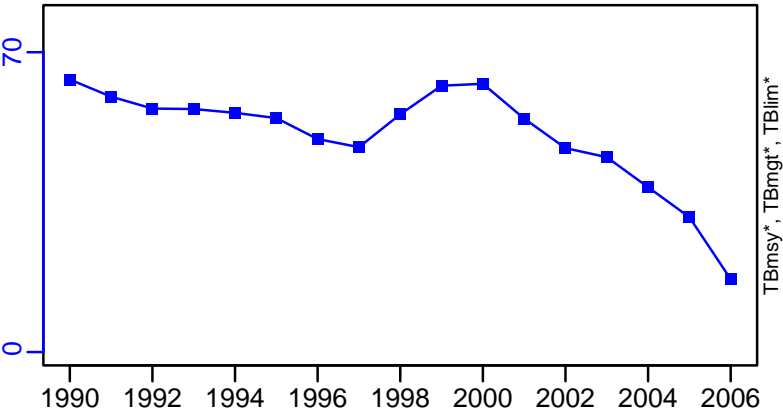
Production\*



◆ Start Year    ◆ End Year    \* No Data

Threadfin Central West Africa Cote Divoire–Benin [THREADCWACIV–BEN]

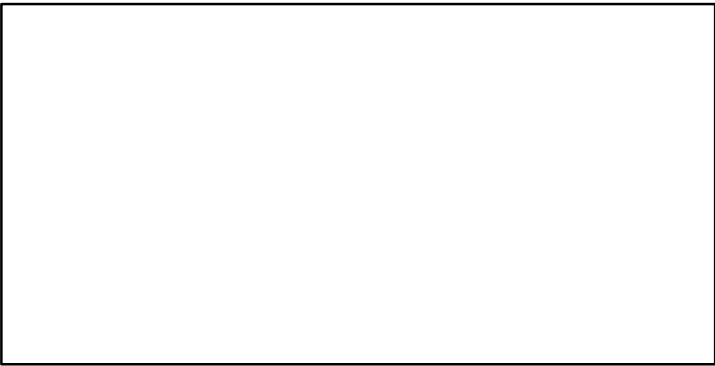
TB–index (1990–2006–CHING)



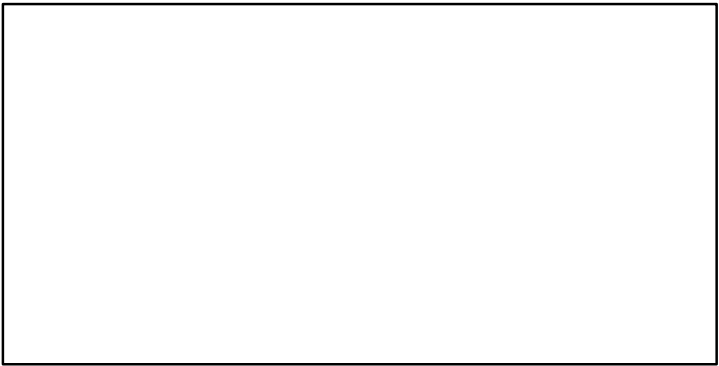
SSB\*



TN \*



F\*



ER\*

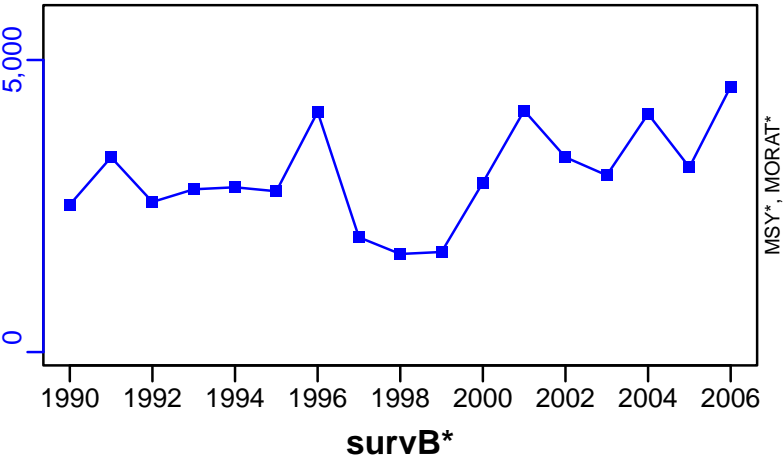


Recruits\*



Threadfin Central West Africa Cote Divoire–Benin [THREADCWACIV–BEN]

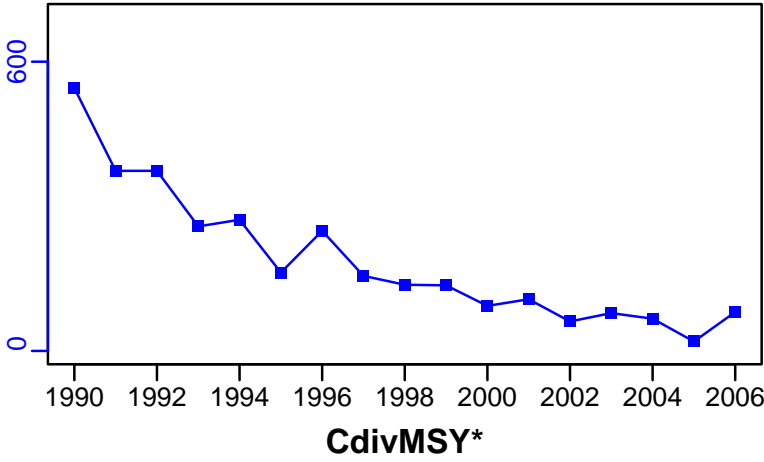
TC–MT, TL\*, RecC\* (1990–2006–CHING)



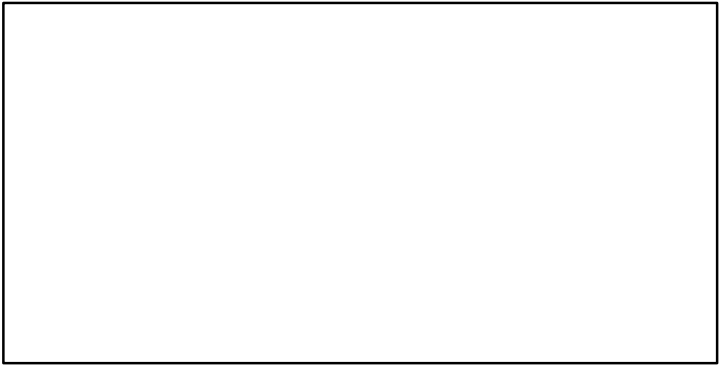
TAC\*, Cpair\*, Cadv\*



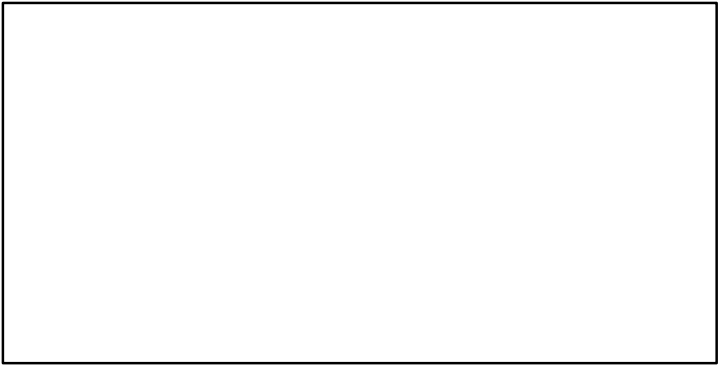
CPUE–kg/day (1990–2006–CHING)



EFFORT\*



CdivMSY\*





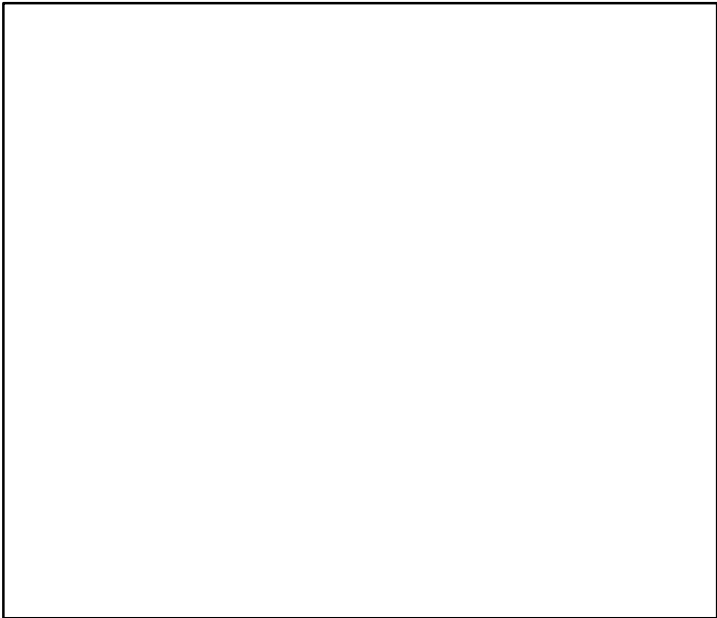
## Threadfin Central West Africa Gabon-Angola [THREADCWAGAB-AGO]

Metadata	
<b>Scientific Name</b>	Galeoides decadactylus
<b>Current Assess ID</b>	FAO-DR-THREADCWAGAB-AGO-1990-2007-CHING
<b>Area</b>	Central West Africa Gabon-Angola
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	54	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	1940		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

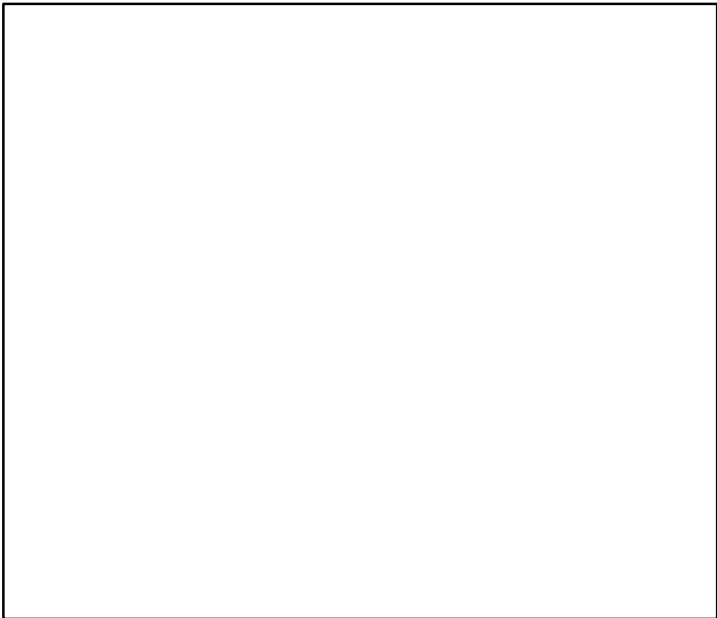
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



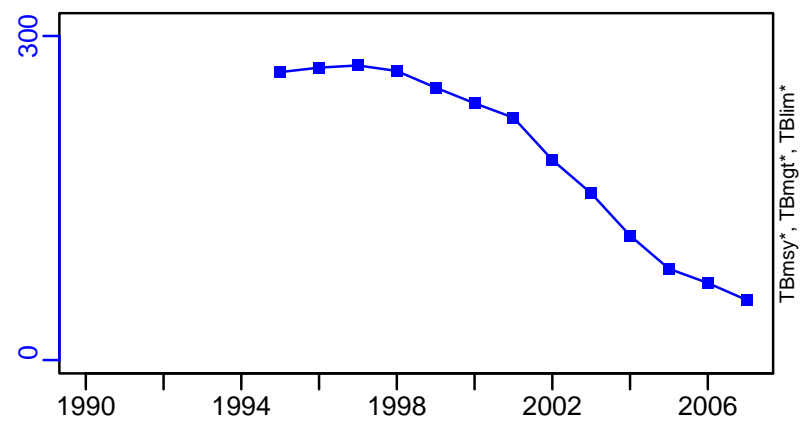
**Production\***



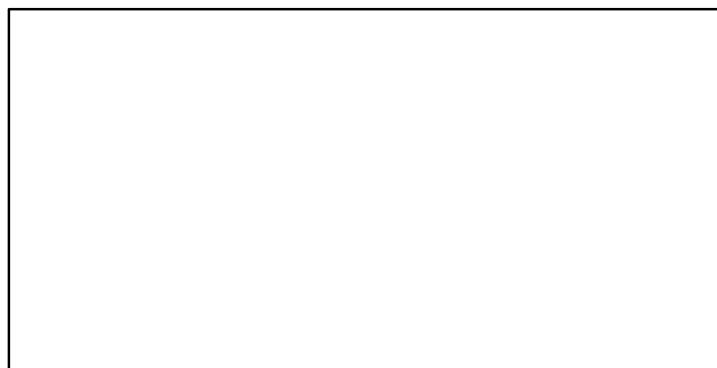
◆ Start Year   ◆ End Year   \* No Data

# Threadfin Central West Africa Gabon–Angola [THREADCWAGAB–AGO]

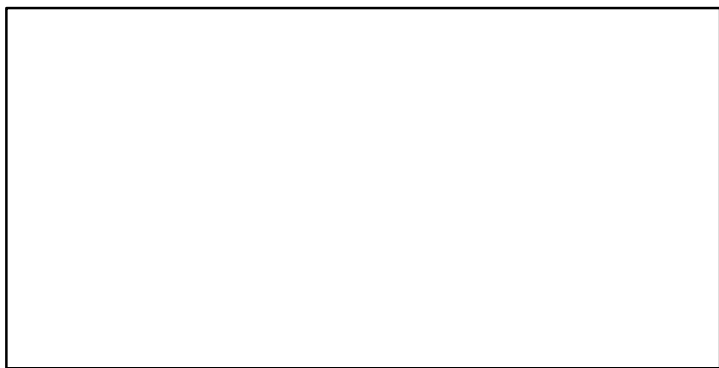
TB-index (1990–2007–CHING)



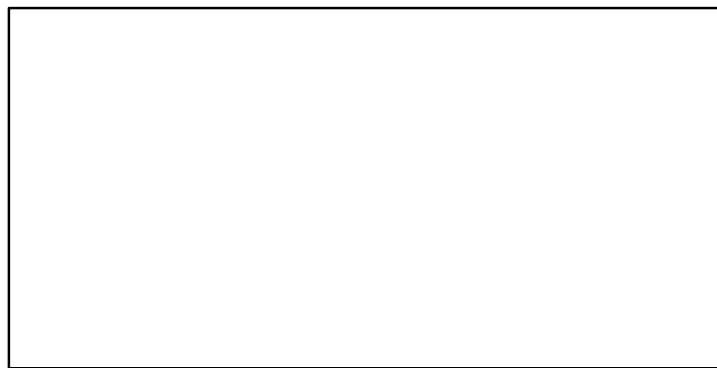
SSB\*



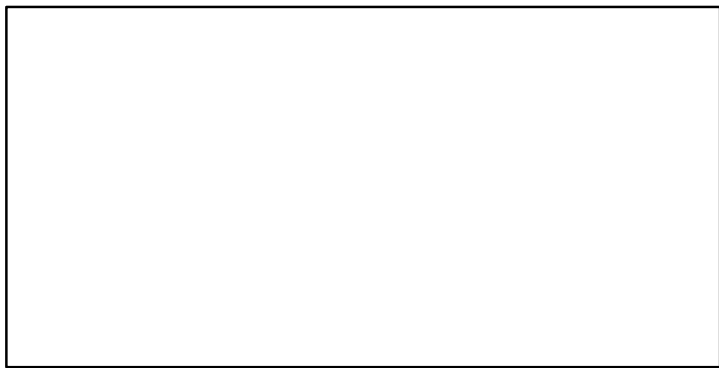
TN \*



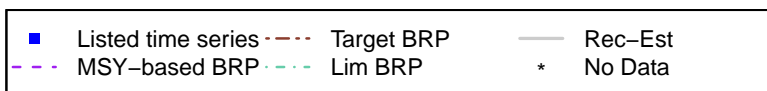
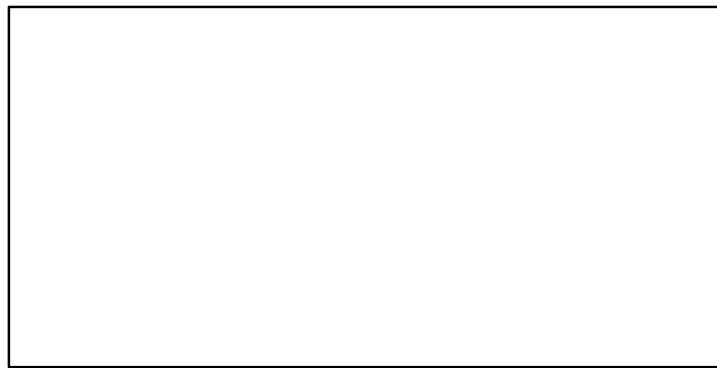
F\*



ER\*

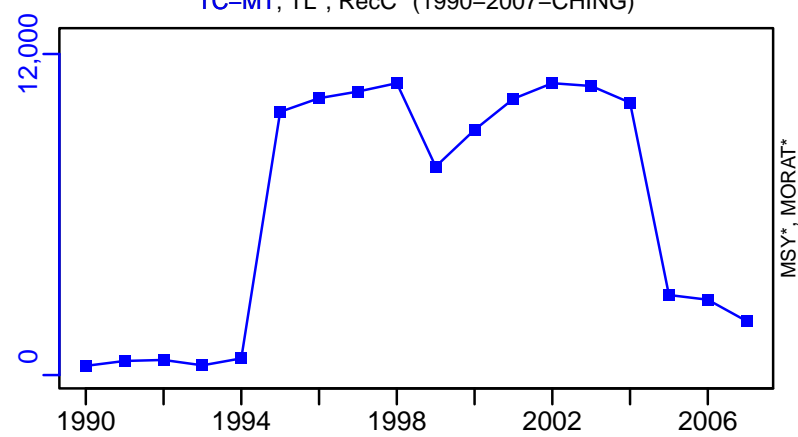


Recruits\*

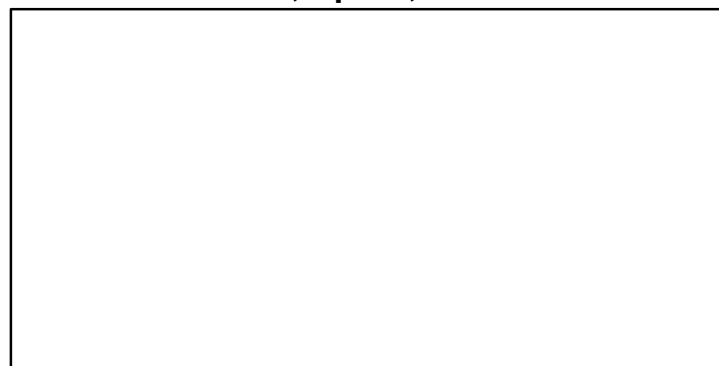


# Threadfin Central West Africa Gabon–Angola [THREADCWAGAB–AGO]

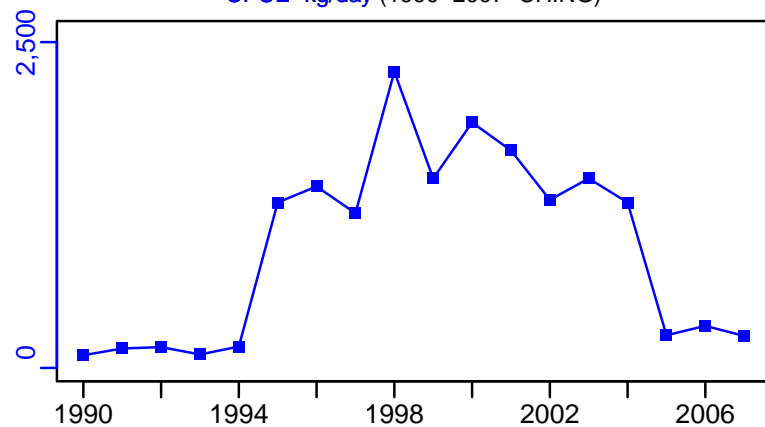
TC–MT, TL\*, RecC\* (1990–2007–CHING)



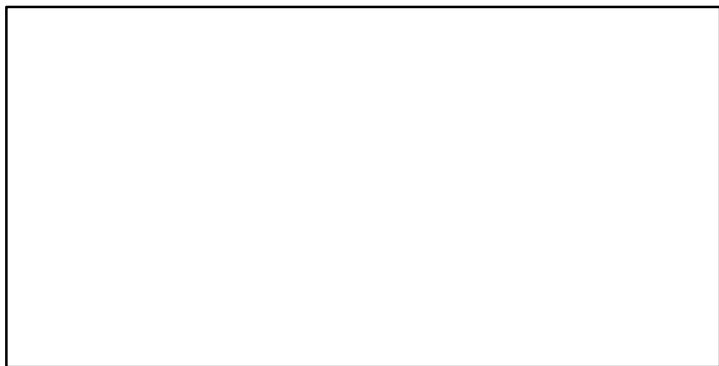
TAC\*, Cpair\*, Cadv\*



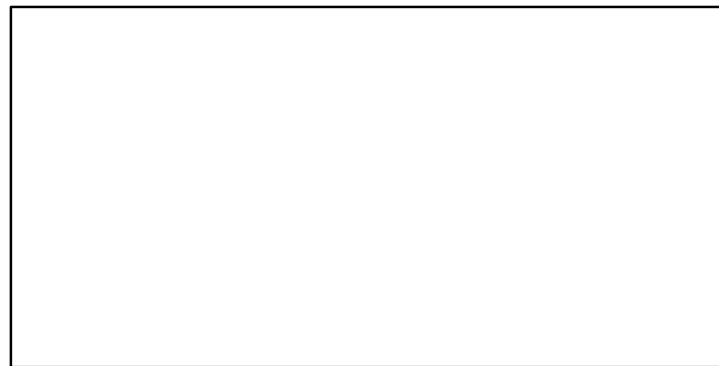
CPUE–kg/day (1990–2007–CHING)



EFFORT\*



CdivMSY\*



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

## Threadfin Central West Africa Guinea-Liberia [THREADCWAGIN-LBR]

Metadata	
<b>Scientific Name</b>	Galeoides decadactylus
<b>Current Assess ID</b>	FAO-DR-THREADCWAGIN-LBR-1994-2007-CHING
<b>Area</b>	Central West Africa Guinea-Liberia
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2007

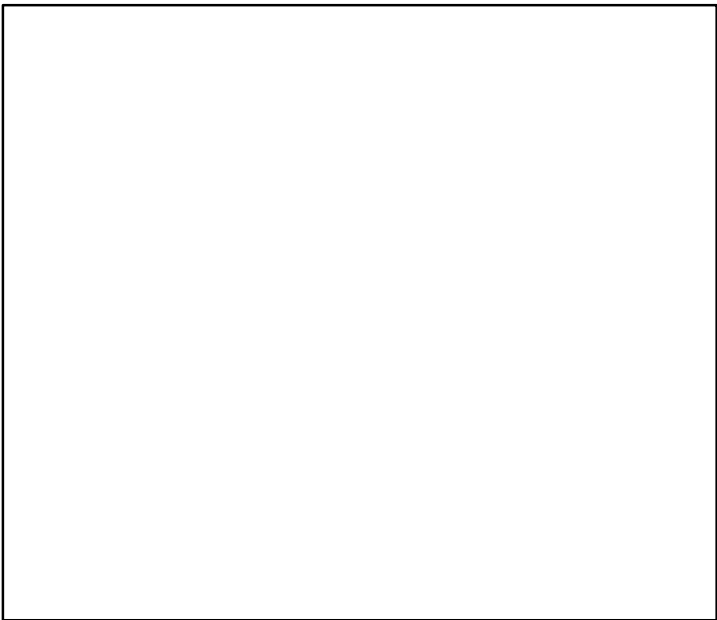
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	4200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

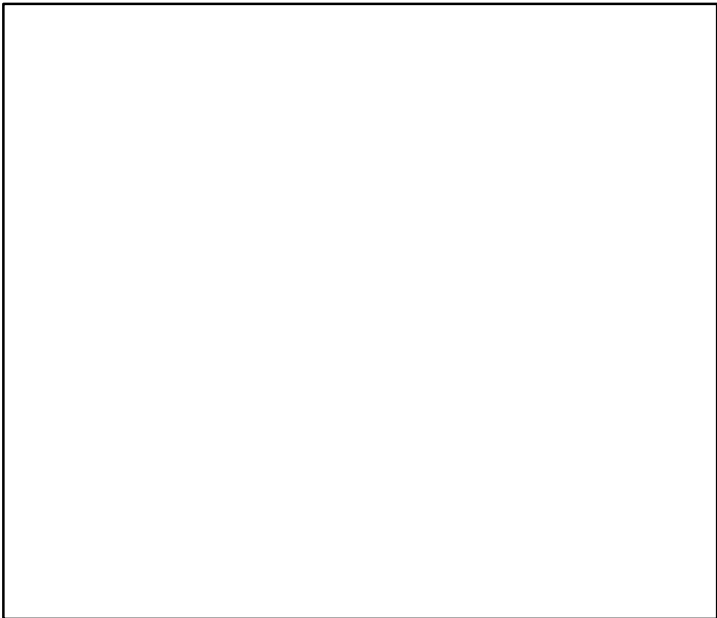
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year   ◆ End Year   \* No Data

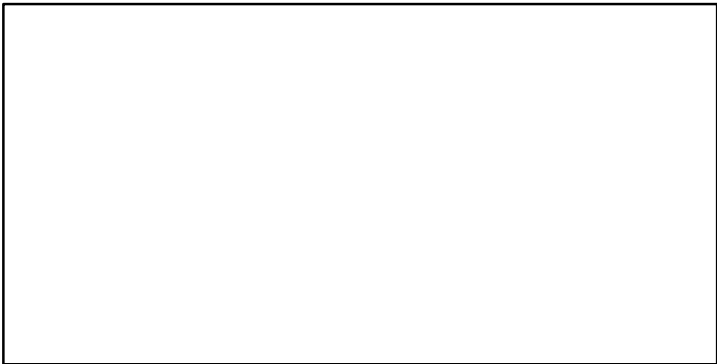
**TB\***



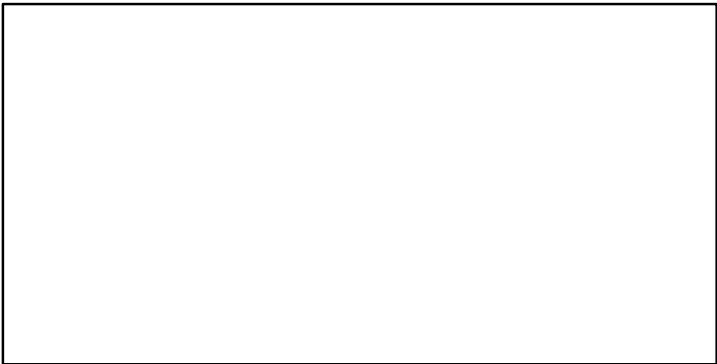
**SSB\***



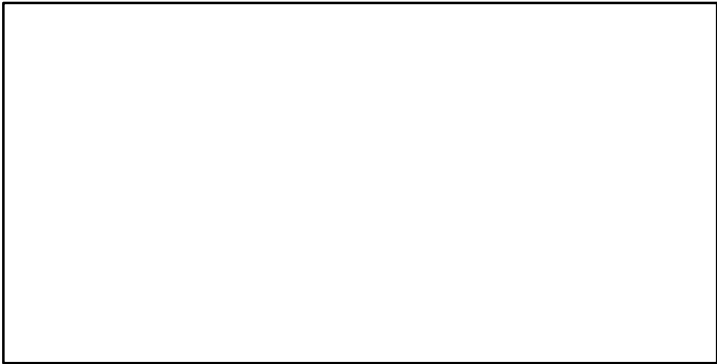
**TN \***



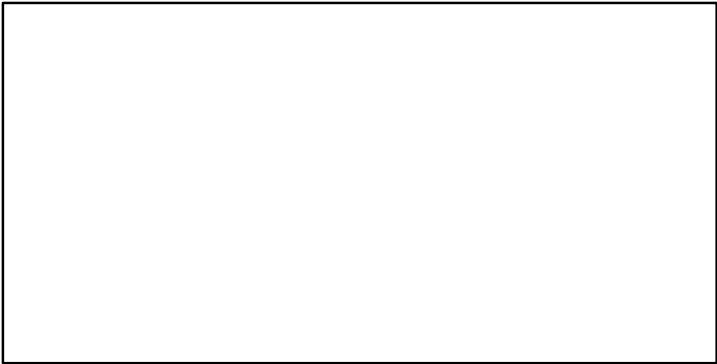
**F\***



**ER\***

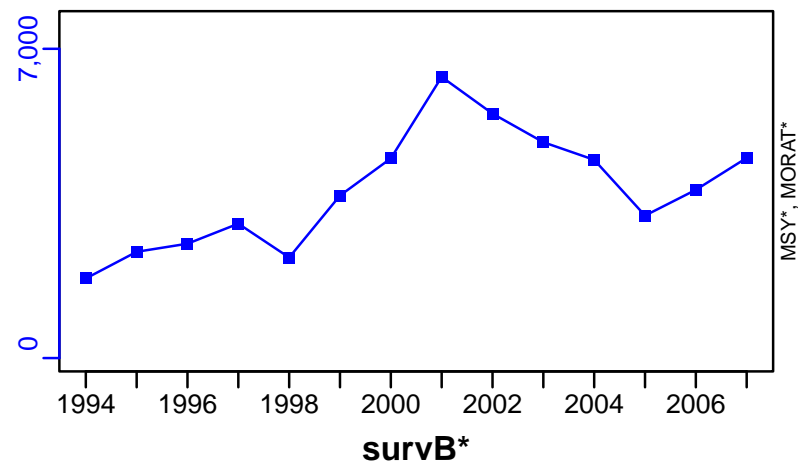


**Recruits\***

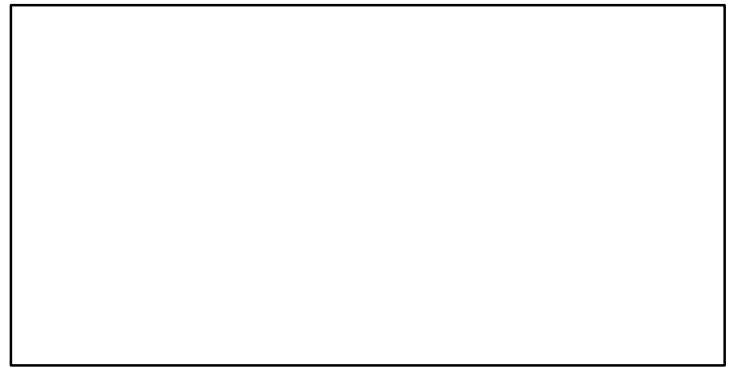


# Threadfin Central West Africa Guinea-Liberia [THREADCWAGIN-LBR]

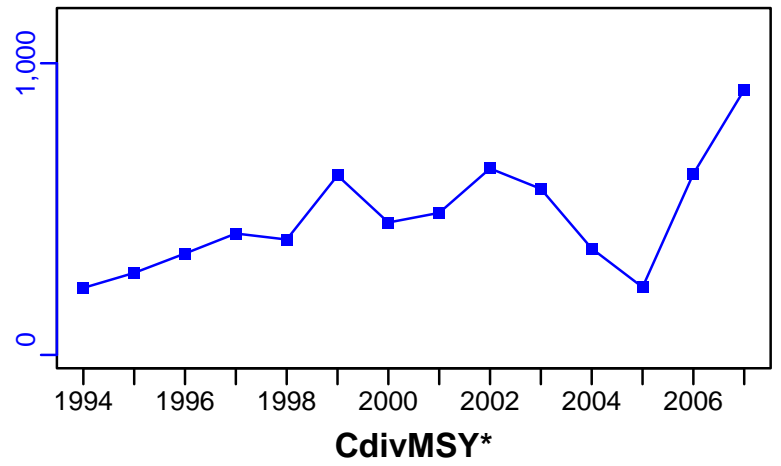
TC-MT, TL\*, RecC\* (1994-2007-CHING)



TAC\*, Cpair\*, Cadv\*



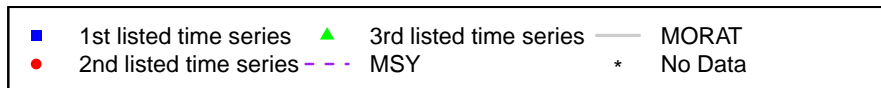
CPUE-kg/day (1994-2007-CHING)



EFFORT\*



CdivMSY\*



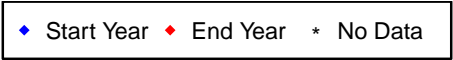
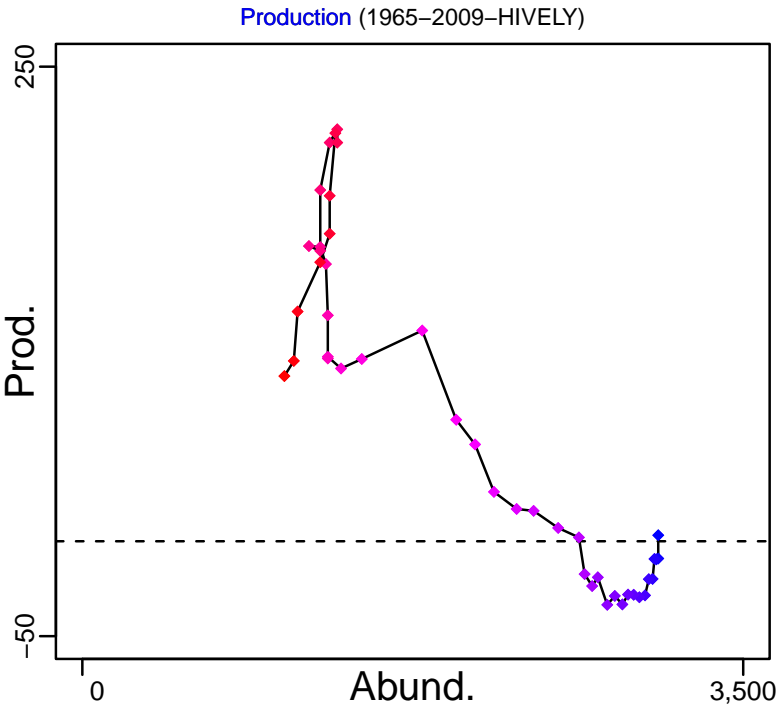
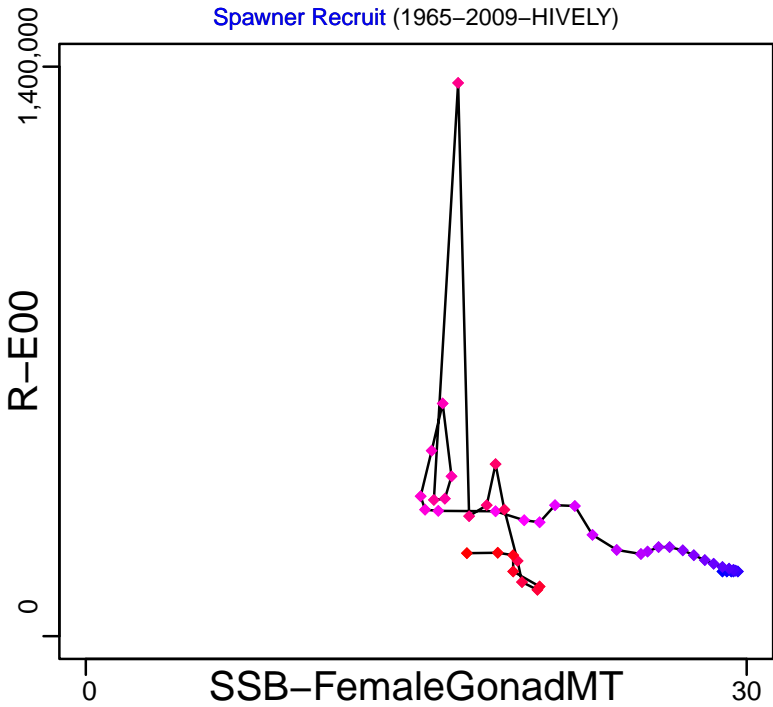
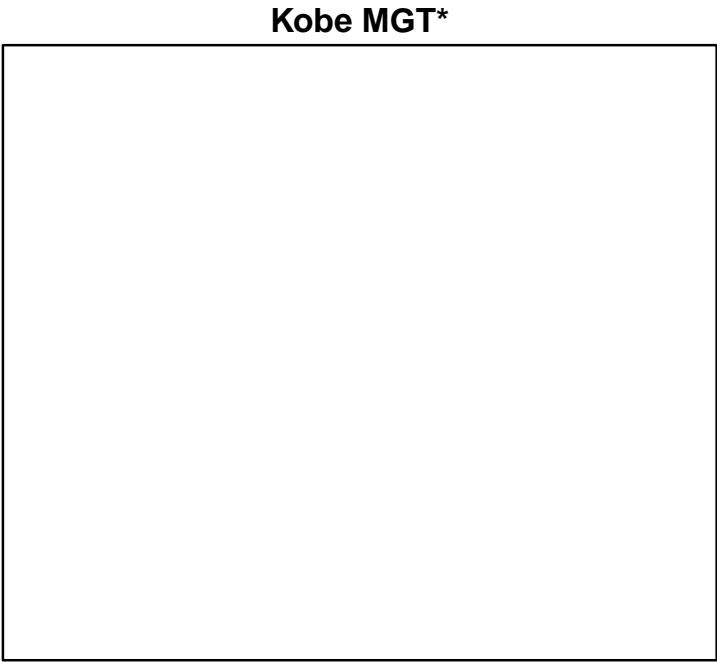
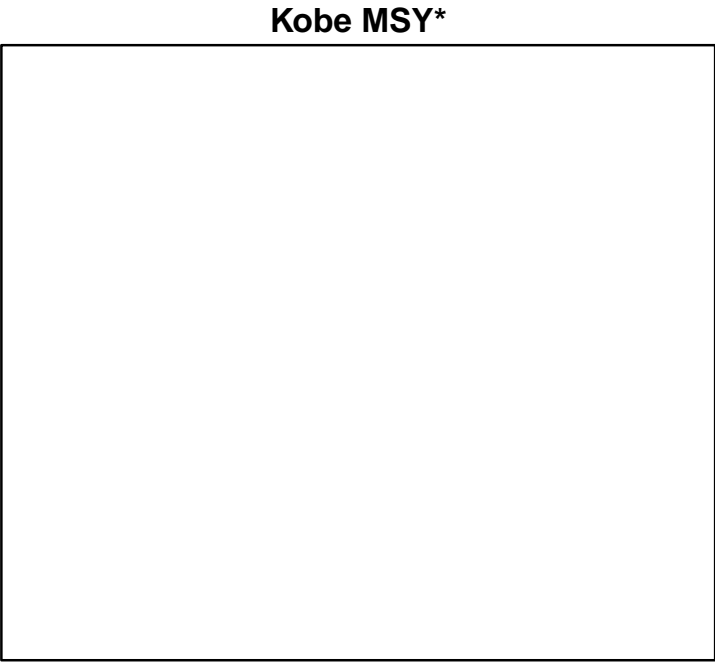


## Tilefish Gulf of Mexico [TILEGM]

Metadata	
<b>Scientific Name</b>	Lopholatilus chamaeleonticeps
<b>Current Assess ID</b>	SEFSC-TILEGM-1965-2009-HIVELY
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2009

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERMgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2009	0.13
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

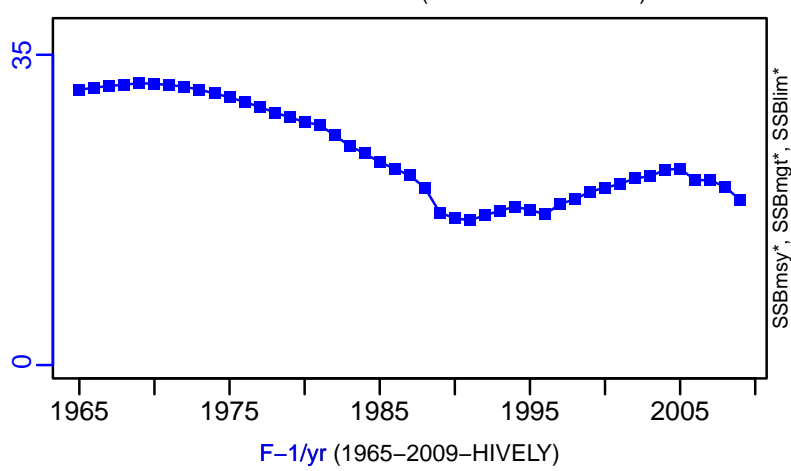
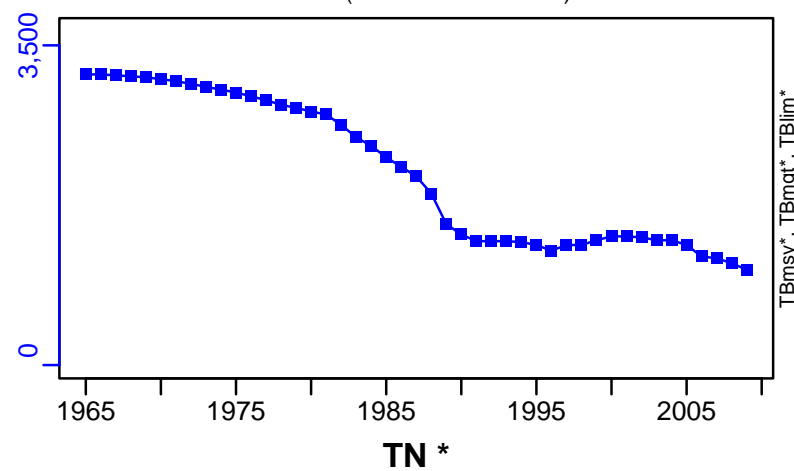
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2009	999	-	-
<b>SSB</b>	SSB-FemaleGonadMT	2009	17	Females	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2009	204,000	-	-
<b>F</b>	F-1/yr	2009	0.17	-	-
<b>ER</b>	ER-calc-ratio	2009	0.186	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2009	186		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERMgt</b>	-	-	-		



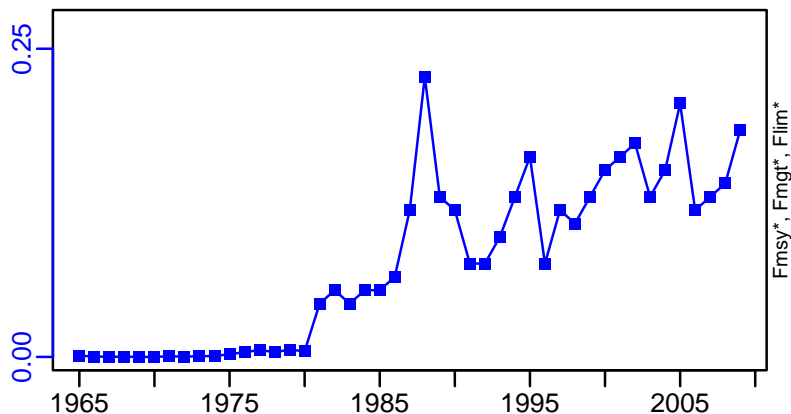
# Tilefish Gulf of Mexico [TILEGM]

TB-MT (1965–2009–HIVELY)

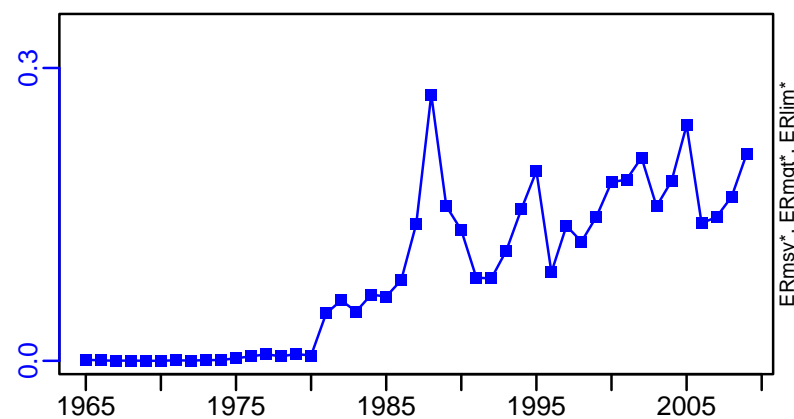
SSB-FemaleGonadMT (1965–2009–HIVELY)



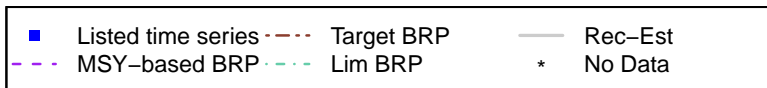
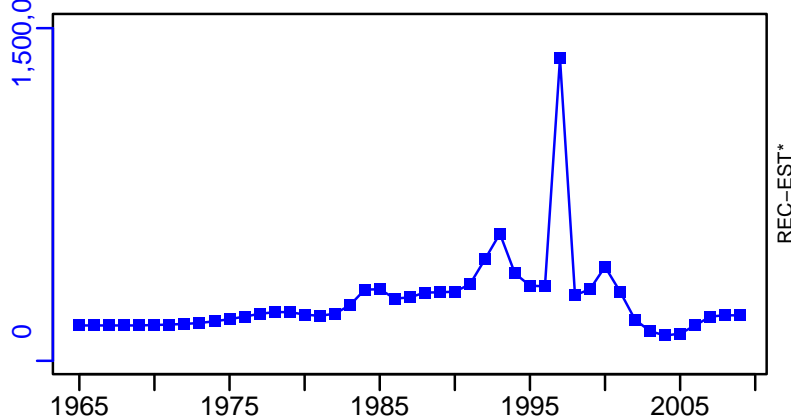
F-1/yr (1965–2009–HIVELY)



ER-calc-ratio (1965–2009–HIVELY)

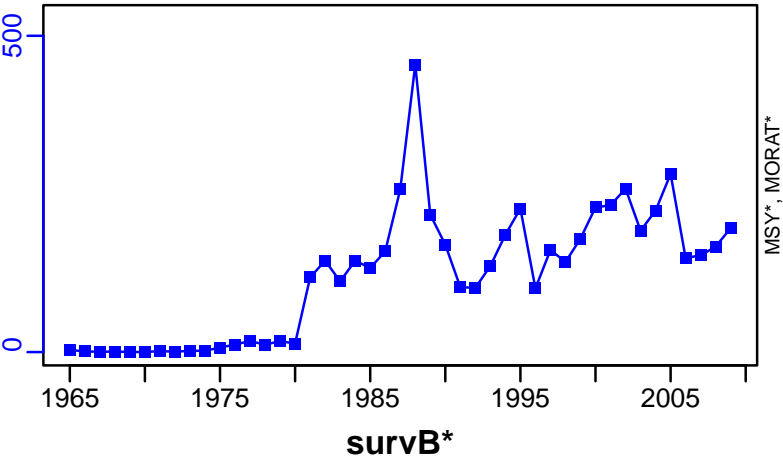


R-E00 (1965–2009–HIVELY)



Tilefish Gulf of Mexico [TILEGM]

TL-MT, TC\*, RecC\* (1965–2009–HIVELY)



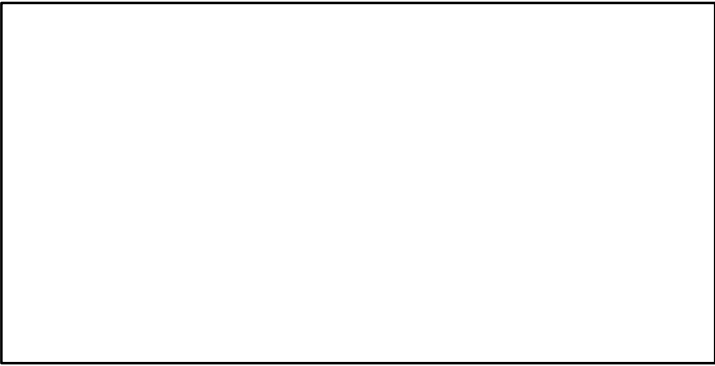
TAC\*, Cpair\*, Cadv\*



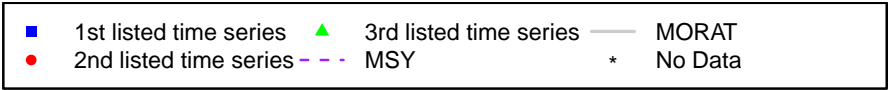
CPUE\*



EFFORT\*



CdivMSY\*



## Tilefish Mid-Atlantic Coast [TILEMATLC]

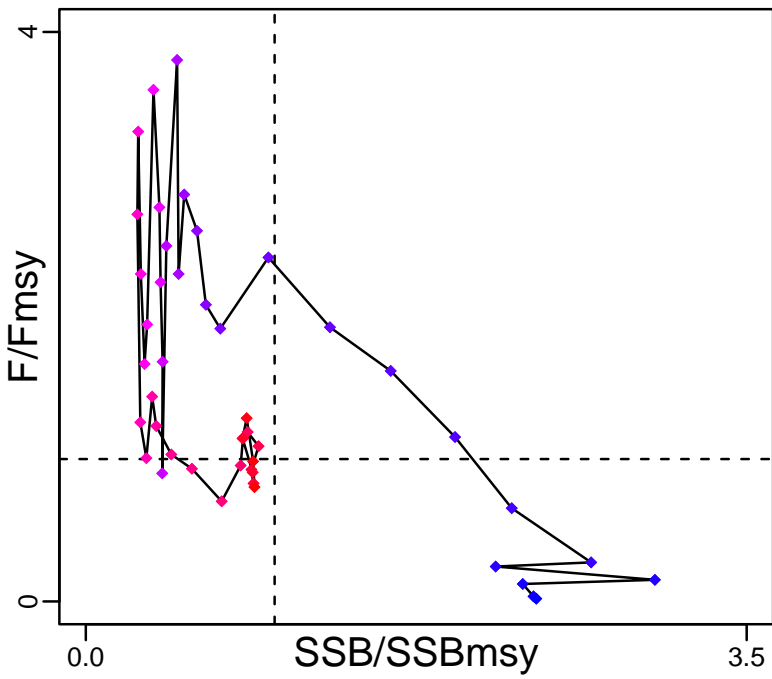
Metadata	
<b>Scientific Name</b>	Lopholatilus chamaeleonticeps
<b>Current Assess ID</b>	NEFSC-TILEMATLC-1970-2016-SISIMP2021
<b>Area</b>	Mid-Atlantic Coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Northeast Fisheries Science Center
<b>Asmts in RAM</b>	2012, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	9492
Fmsy	Fmsy-1/yr	2016	0.31
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	1029
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	4746
Flim	Flim-1/yr	2016	0.31
ERlim	-	-	-

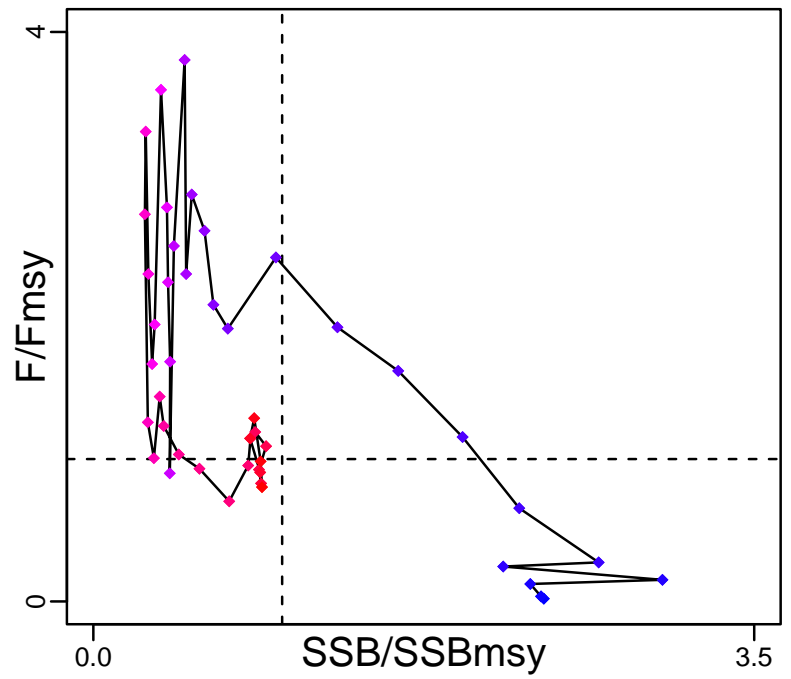
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	8479	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,184,000	-	1
F	F-1/yr	2016	0.249	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	502		
TL	TL-MT	2012	834		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.893		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.803		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

# Tilefish Mid-Atlantic Coast [TILEMATLC]

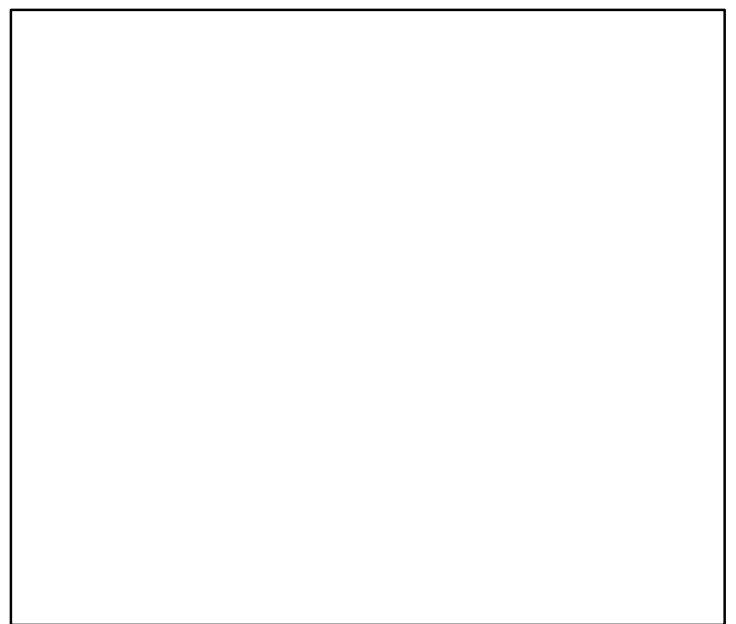
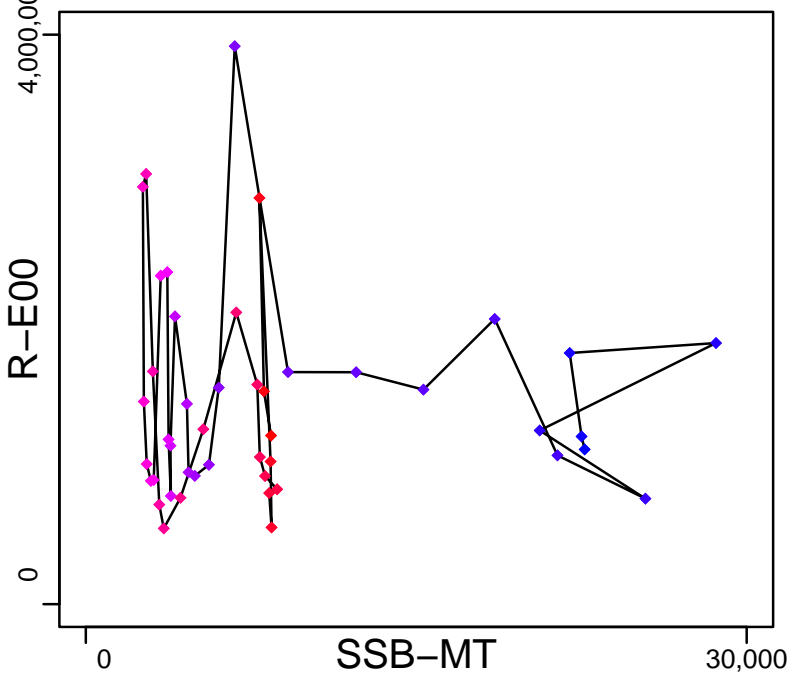
Kobe MSYpref (1970–2016–SISIMP2021)



Kobe MGTpref (1970–2016–SISIMP2021)



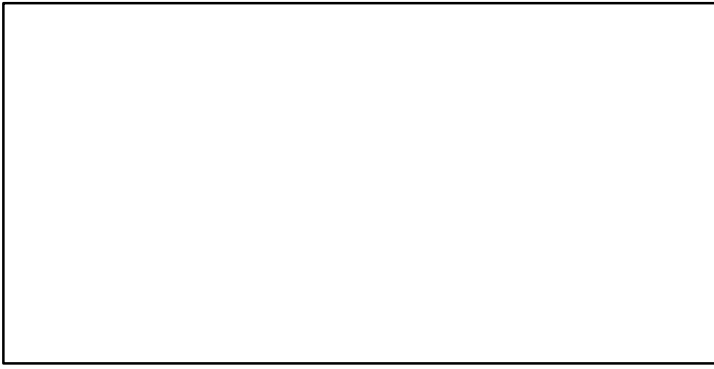
Spawner Recruit (1970–2016–SISIMP2021)



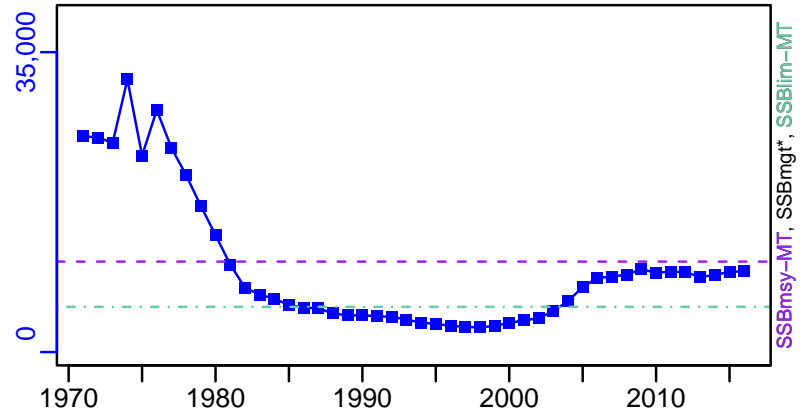
◆ Start Year ◆ End Year \* No Data

# Tilefish Mid-Atlantic Coast [TILEMATLC]

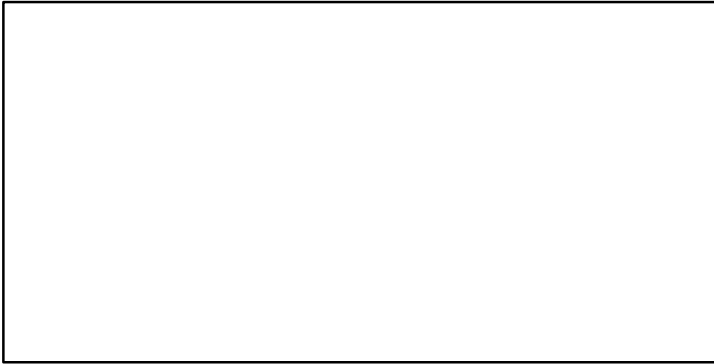
TB\*



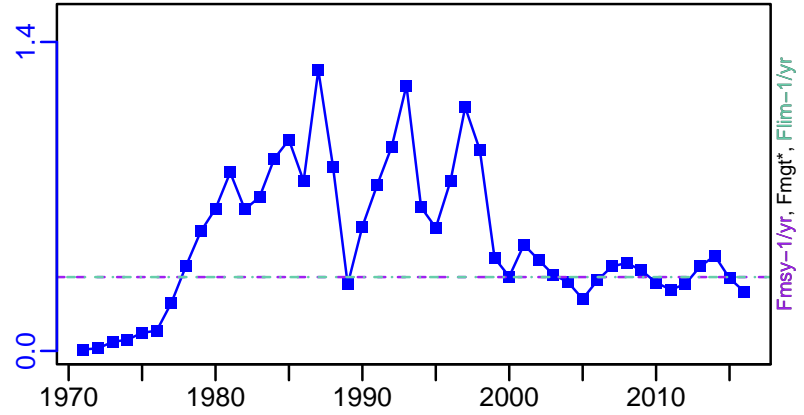
SSB-MT (1970-2016-SISIMP2021)



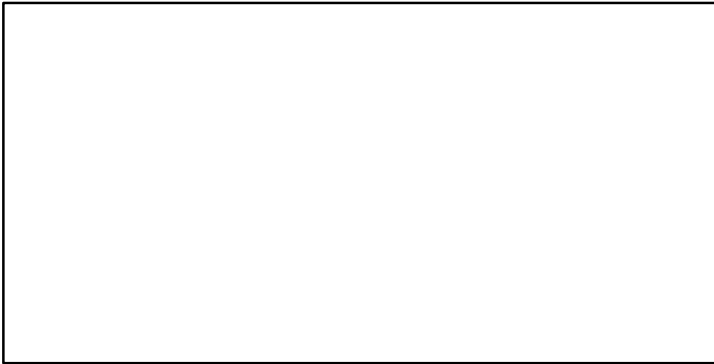
TN \*



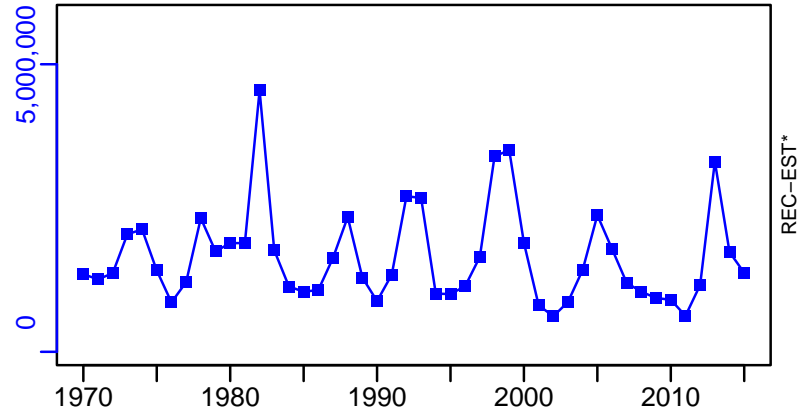
F-1/yr (1970-2016-SISIMP2021)



ER\*



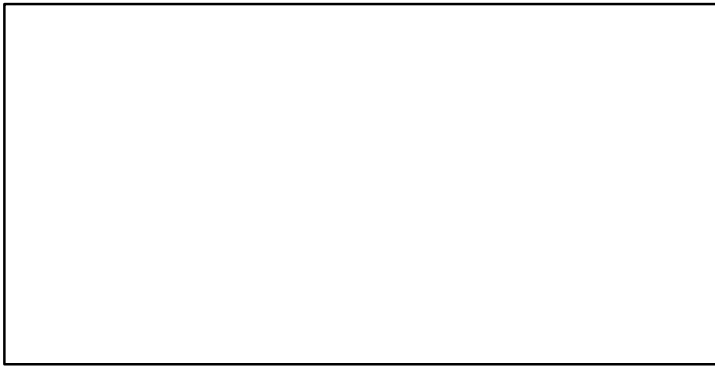
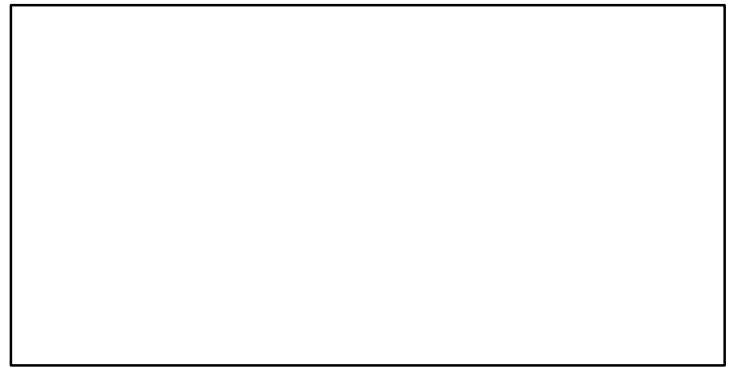
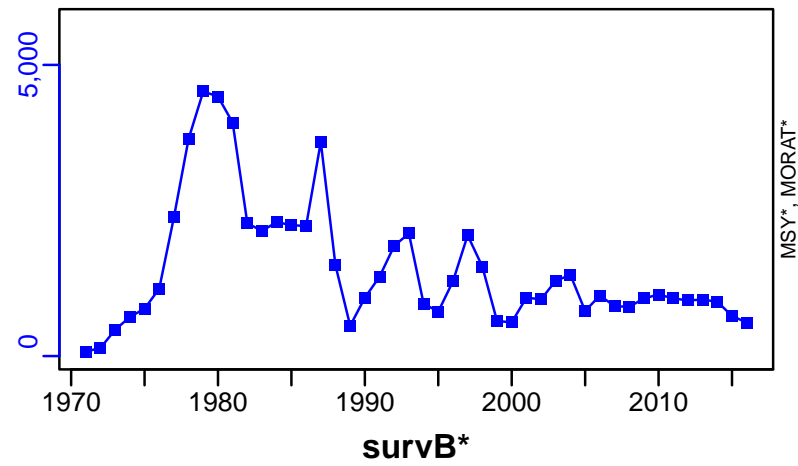
R-E00 (1970-2016-SISIMP2021)



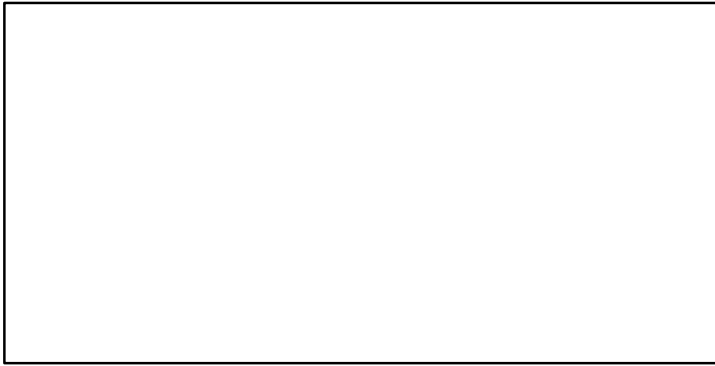
# Tilefish Mid-Atlantic Coast [TILEMATLC]

TC-MT, TL\*, RecC\* (1970-2016-SISIMP2021)

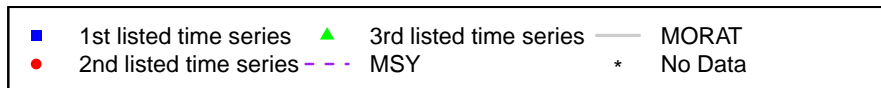
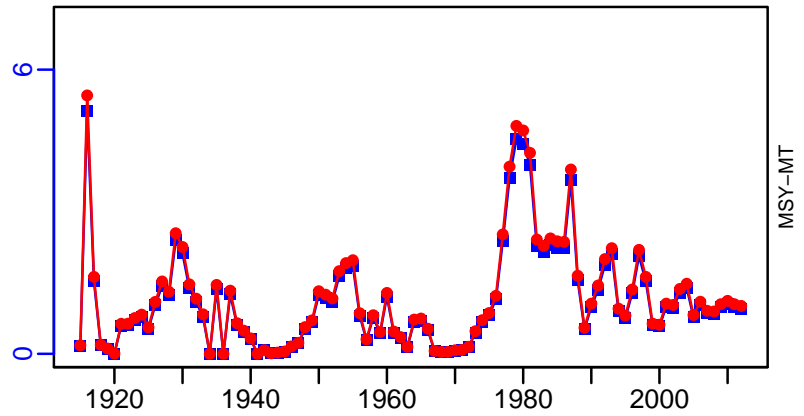
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TL-MT/MSY-MT, CdivMEANC-ratio, (1915-2012-HIVELY)





## Tilefish Southern Atlantic coast [TILESATLC]

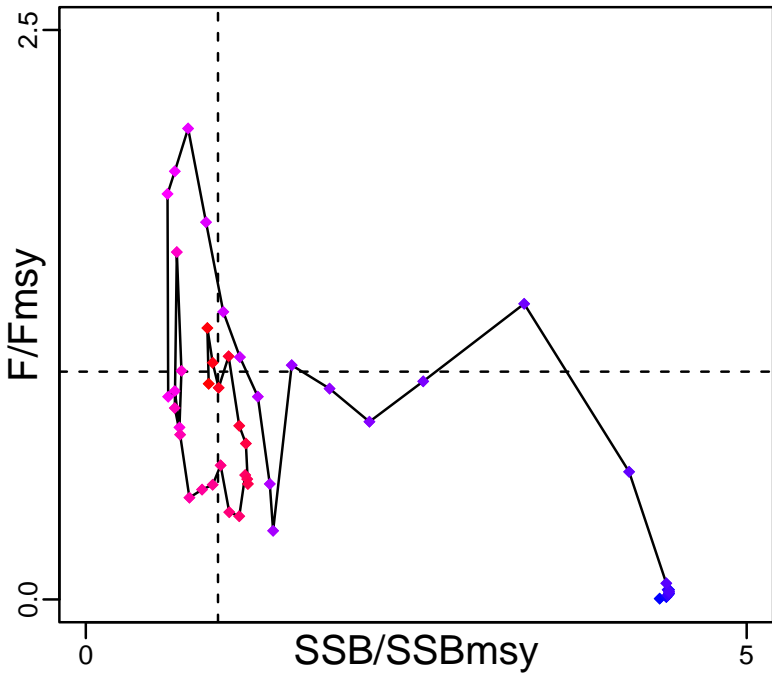
Metadata	
<b>Scientific Name</b>	Lopholatilus chamaeleonticeps
<b>Current Assess ID</b>	SEFSC-TILESATLC-1972-2018-SISIMP2021-2
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011, 2014, 2018

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2011	2918
<b>SSBmsy</b>	SSBmsy-FemaleGonadMT	2018	20
<b>Fmsy</b>	Fmsy-1/yr	2018	0.282
<b>ERmsy</b>	ERmsy-calc-ratio	2011	0.099
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2018	246
<b>M</b>	M-1/yr	2011	0.1
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-FemaleGonadMT	2018	15
<b>Flim</b>	Flim-1/yr	2018	0.282
<b>ERlim</b>	-	-	-

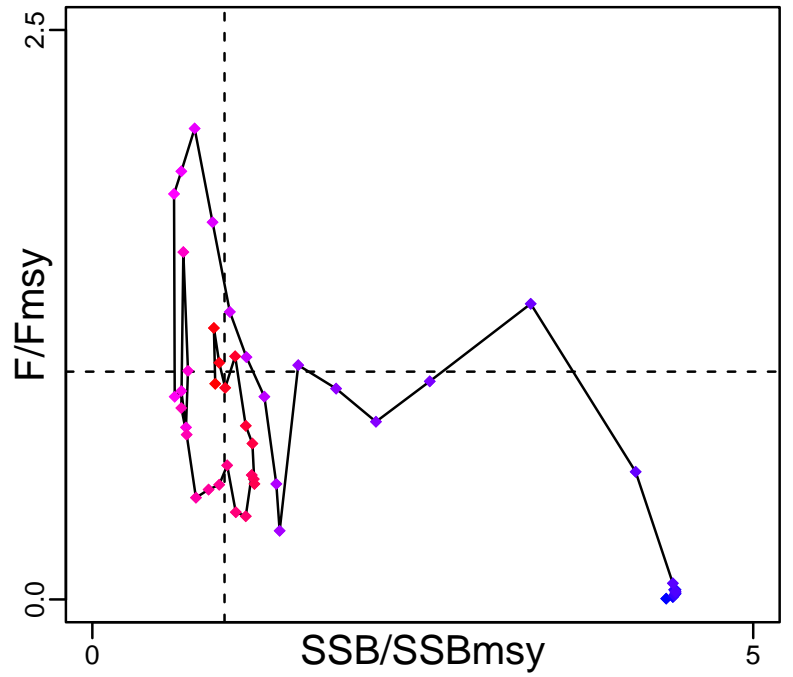
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	5240	-	-
<b>SSB</b>	SSB-FemaleGonadMT	2018	18	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	308,000	-	1
<b>F</b>	F-1/yr	2018	0.267	-	-
<b>ER</b>	ER-calc-ratio	2011	0.052	-	-
<b>TC</b>	TC-MT	2018	153		
<b>TL</b>	TL-MT	2011	275		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2011	1.796		
<b>SSB/SSBmsy</b>	SSB-FemaleGonadMT/SSBmsy-FemaleGonadMT	2018	0.93		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	0.947		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2011	0.526		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Tilefish Southern Atlantic coast [TILESATLC]

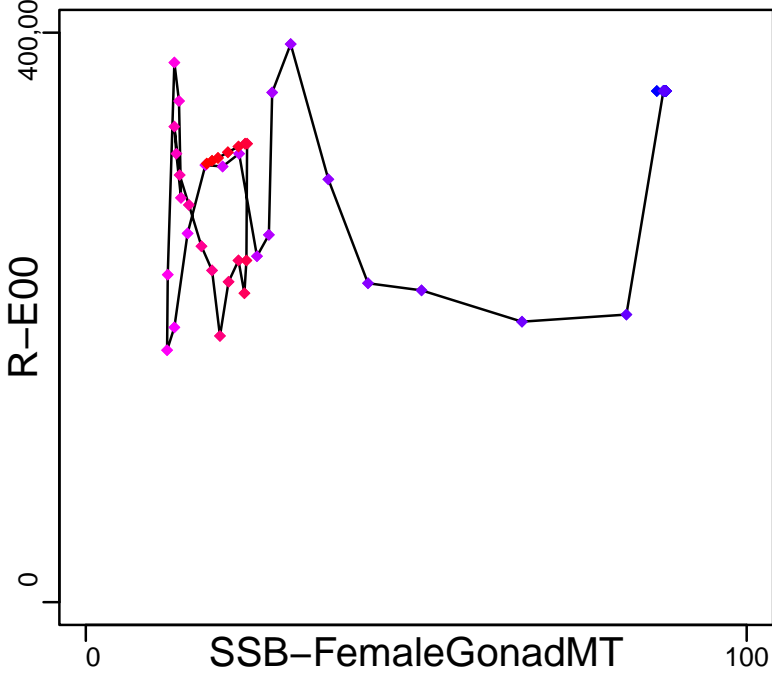
Kobe MSYpref (1972–2018–SISIMP2021–2)



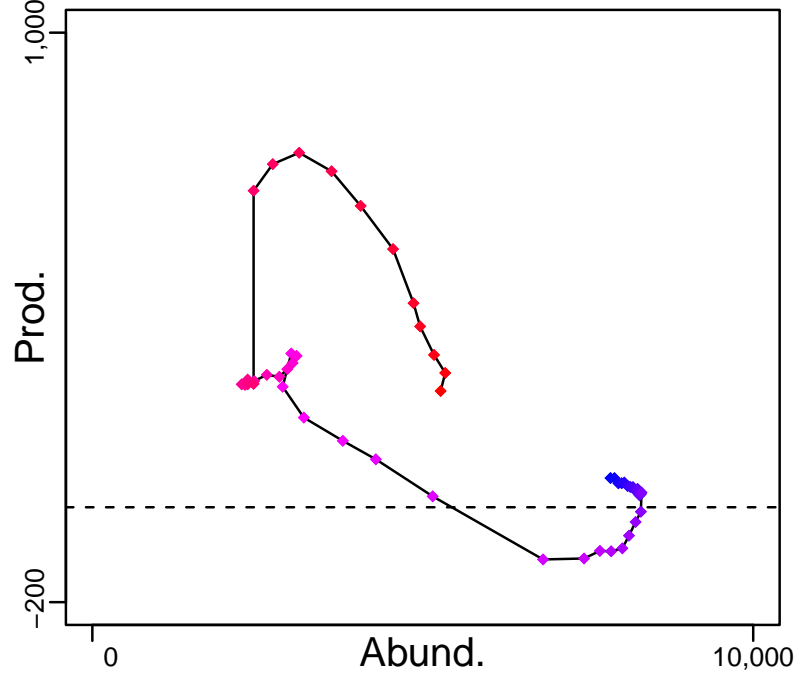
Kobe MGTpref (1972–2018–SISIMP2021–2)



Spawner Recruit (1972–2018–SISIMP2021–2)



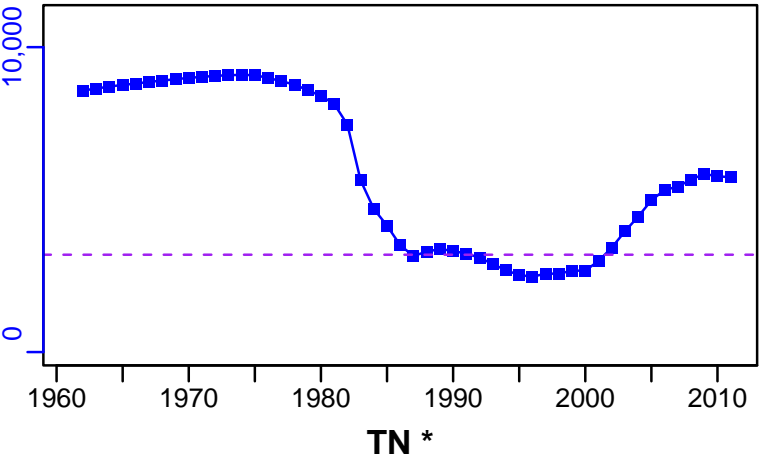
Production (1961–2011–HIVELY)



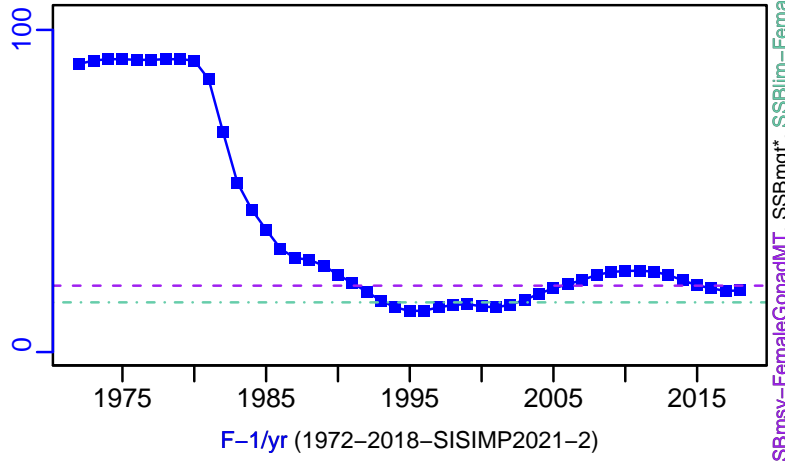
◆ Start Year ◆ End Year \* No Data

# Tilefish Southern Atlantic coast [TILESATLC]

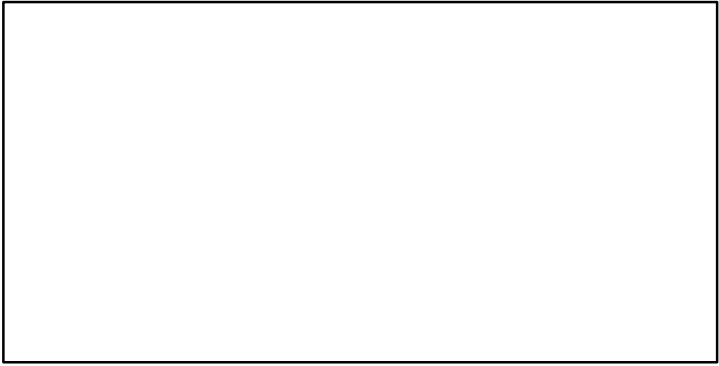
TB-MT (1961–2011–HIVELY)



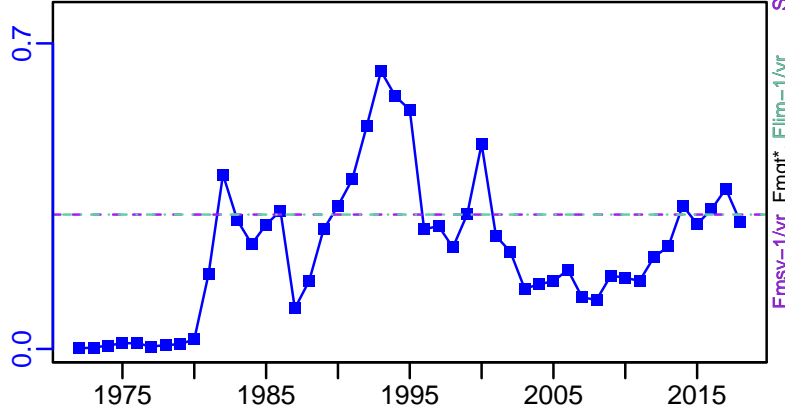
SSB-FemaleGonadMT (1972–2018–SISIMP2021-2)



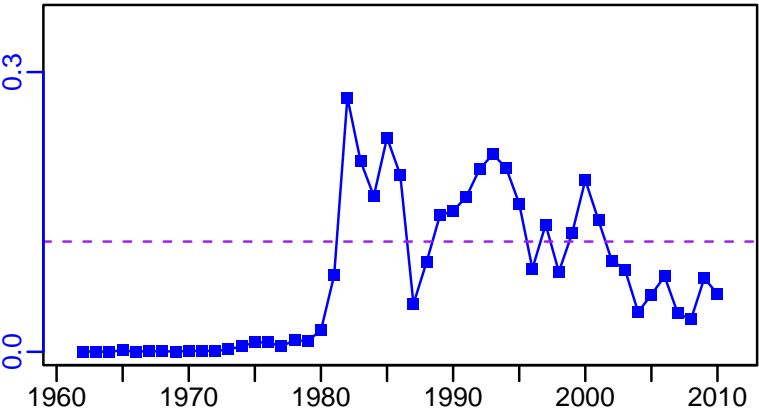
TN \*



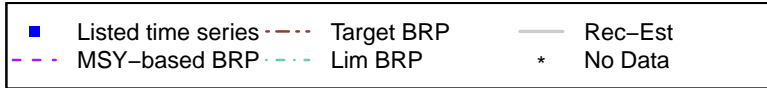
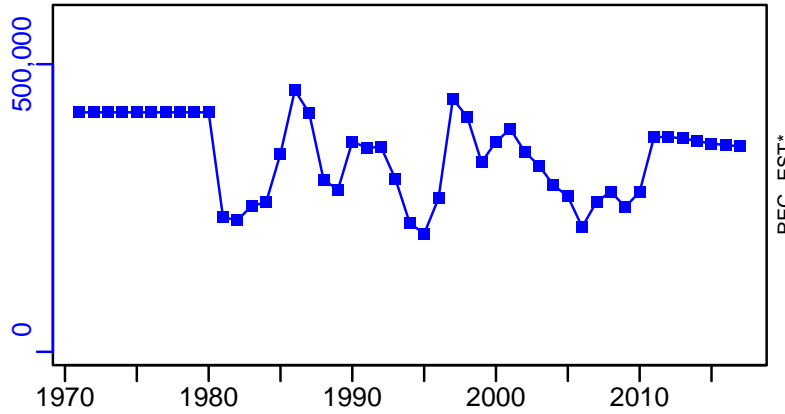
F-1/yr (1972–2018–SISIMP2021-2)



ER-calc-ratio (1961–2011–HIVELY)

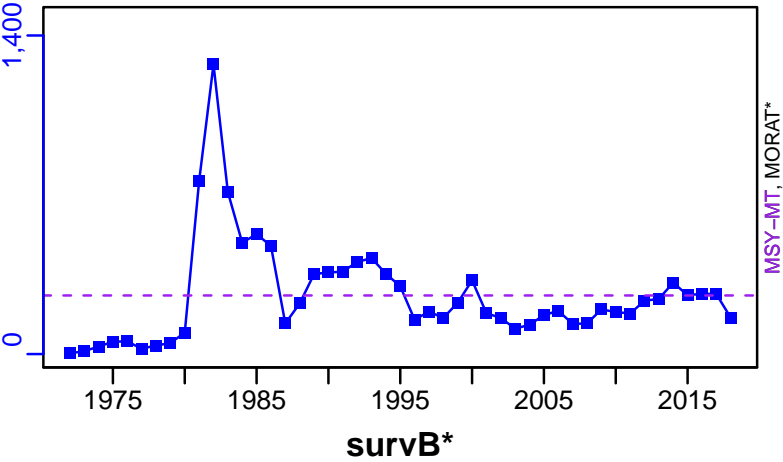


R-E00 (1972–2018–SISIMP2021-2)



Tilefish Southern Atlantic coast [TILESATLC]

TC-MT, TL\*, RecC\* (1972-2018-SISIMP2021-2)



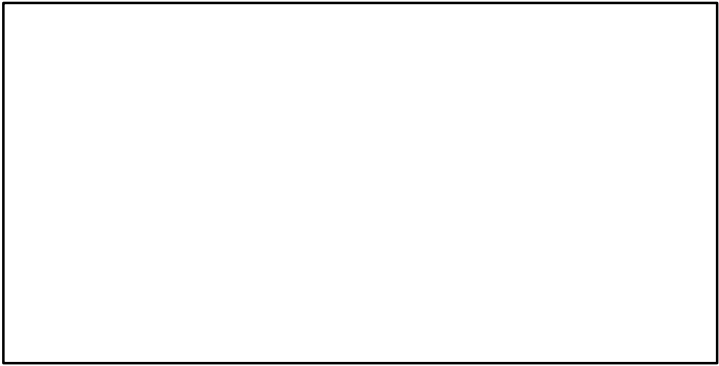
TAC\*, Cpair\*, Cadv\*



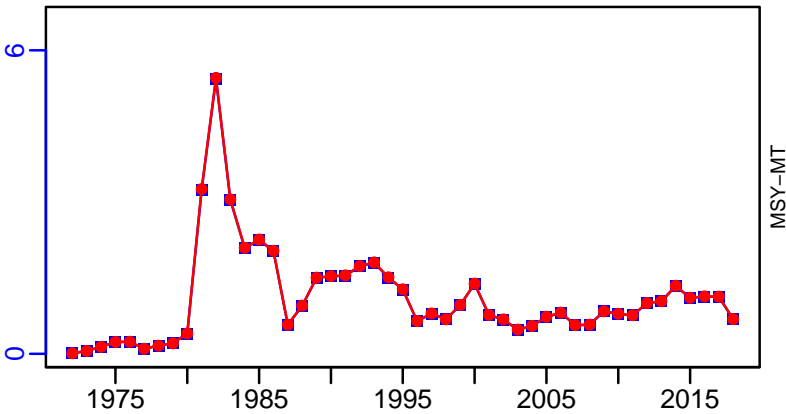
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1972-2018-SISIMP2021-2)



## Twosaddle goatfish Main Hawaiian Islands [TSGTFMHI]

Metadata	
<b>Scientific Name</b>	Parupeneus bifasciatus
<b>Current Assess ID</b>	PIFSC-TSGTFMHI-2004-2015-SISIMP2021
<b>Area</b>	Main Hawaiian Islands
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Pacific Fisheries Science Center
<b>Asmts in RAM</b>	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	0.518		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

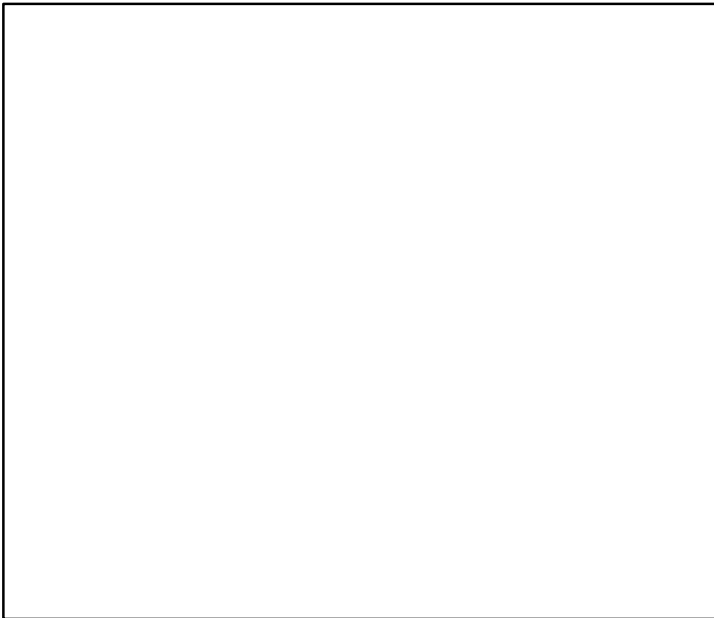
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



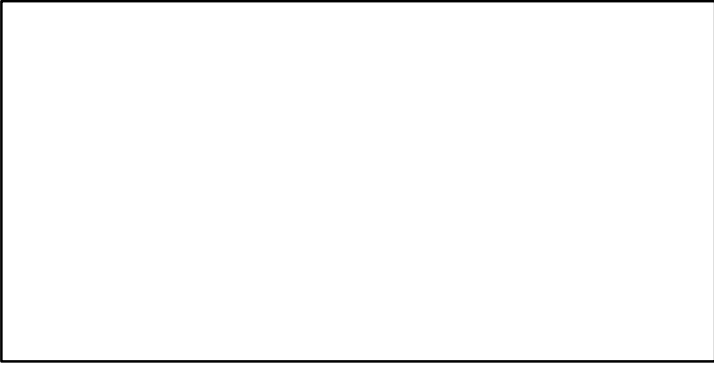
**Production\***



◆ Start Year   ◆ End Year   \* No Data

Twosaddle goatfish Main Hawaiian Islands [TSGTFMHI]

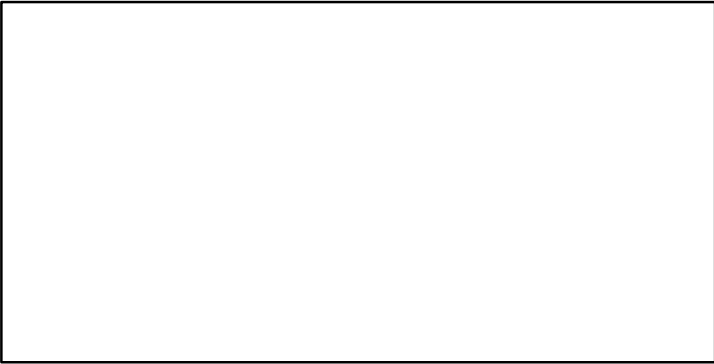
**TB\***



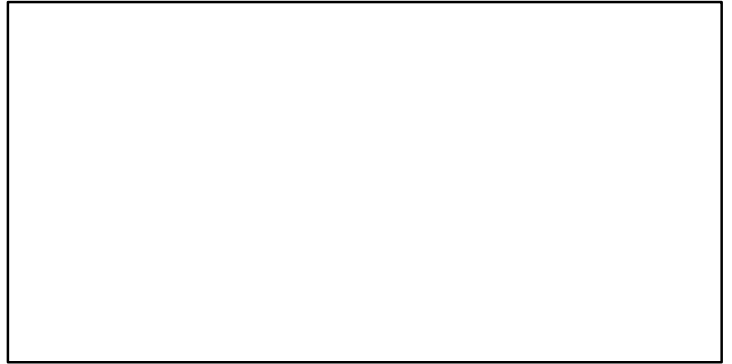
**SSB\***



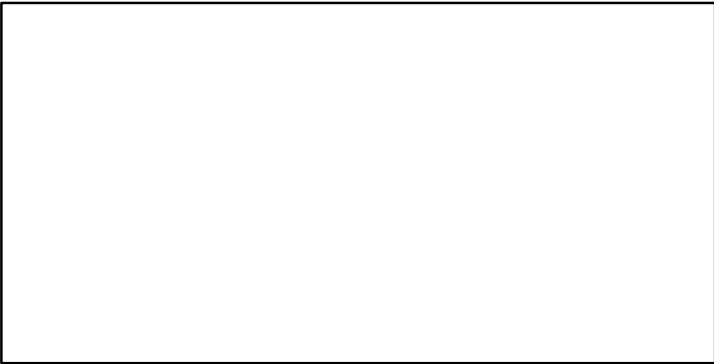
**TN \***



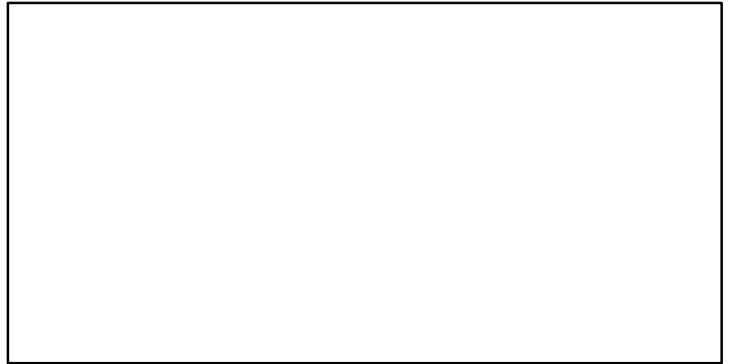
**F\***



**ER\***

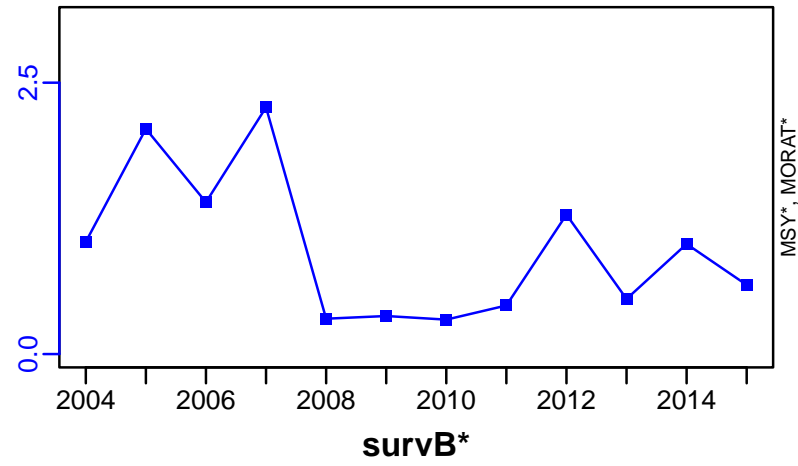


**Recruits\***

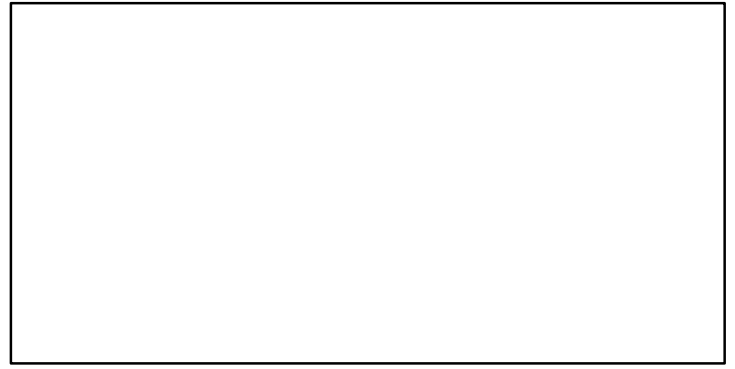


Twosaddle goatfish Main Hawaiian Islands [TSGTFMHI]

TC-MT, TL\*, RecC\* (2004–2015–SISIMP2021)



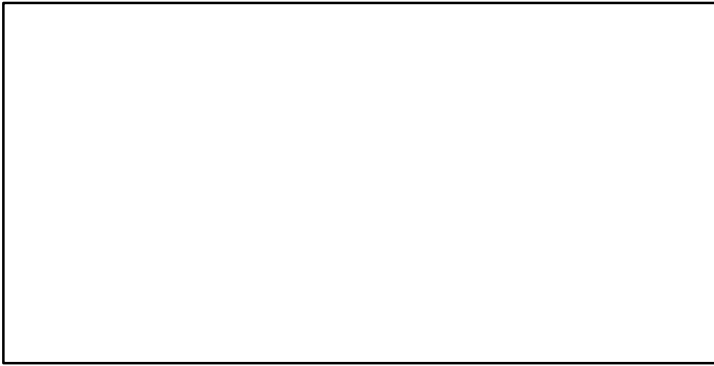
TAC\*, Cpair\*, Cadv\*



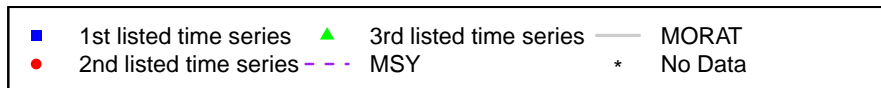
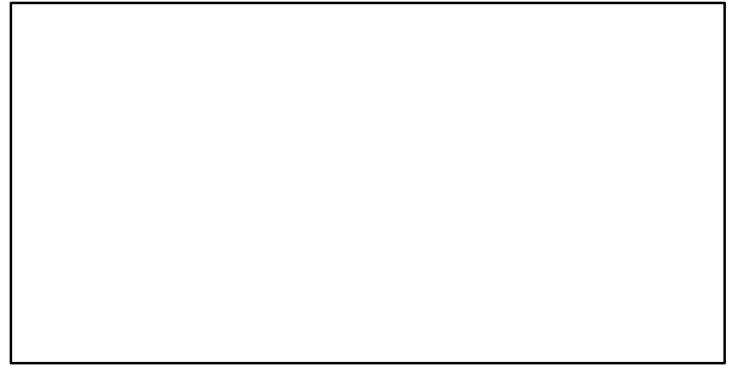
CPUE\*



EFFORT\*



CdivMSY\*





## Vermilion snapper Gulf of Mexico [VSNAPGM]

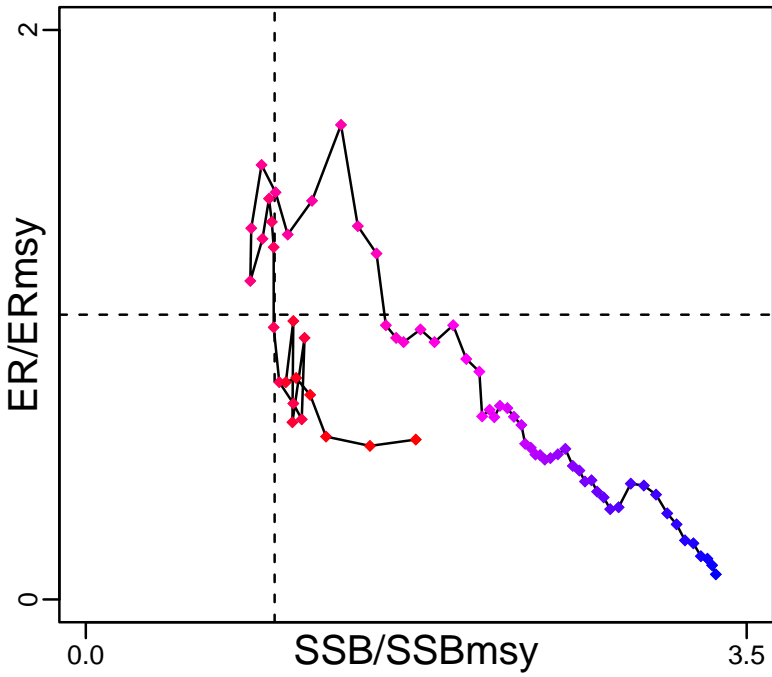
Metadata	
<b>Scientific Name</b>	Rhomboplites aurorubens
<b>Current Assess ID</b>	SEFSC-VSNAPGM-1950-2017-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2014, 2017, 2004

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-E00eggs	2017	$2.02 \times 10^{14}$
<b>Fmsy</b>	Fmsy-1/yr	2014	0.103
<b>ERmsy</b>	ERmsy-ratio	2017	0.135
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.087
<b>ERMgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2014	1529
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2017	$1.01 \times 10^{14}$
<b>Flim</b>	Flim-1/yr	2014	0.103
<b>ERlim</b>	ERlim-ratio	2017	0.135

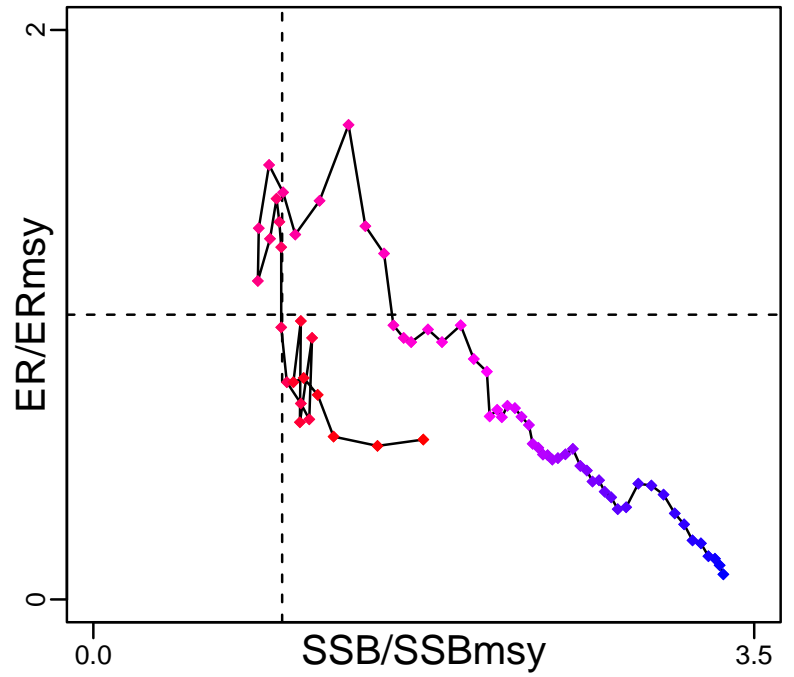
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	11,500	-	1+
<b>SSB</b>	SSB-E00eggs	2017	$3.53 \times 10^{14}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	21,200,000	-	0
<b>F</b>	F-1/yr	2014	0.239	-	-
<b>ER</b>	ER-ratio	2017	0.076	-	-
<b>TC</b>	TC-MT	2017	2810		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2017	1.748		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	2.32		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2017	0.561		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	2.747		
<b>ER/ERMgt</b>	-	-	-		

# Vermilion snapper Gulf of Mexico [VSNAPOGM]

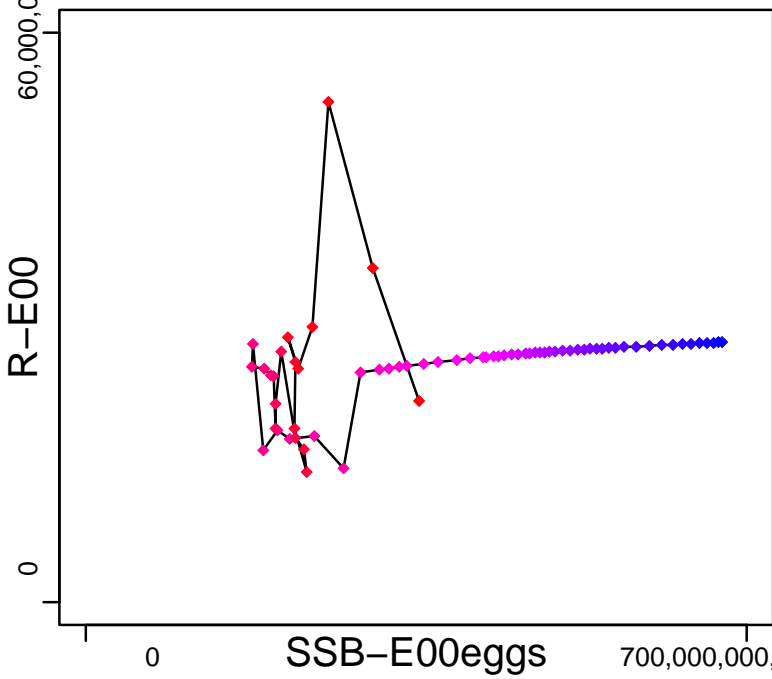
Kobe MSYpref (1950–2017–SISIMP2021–2)



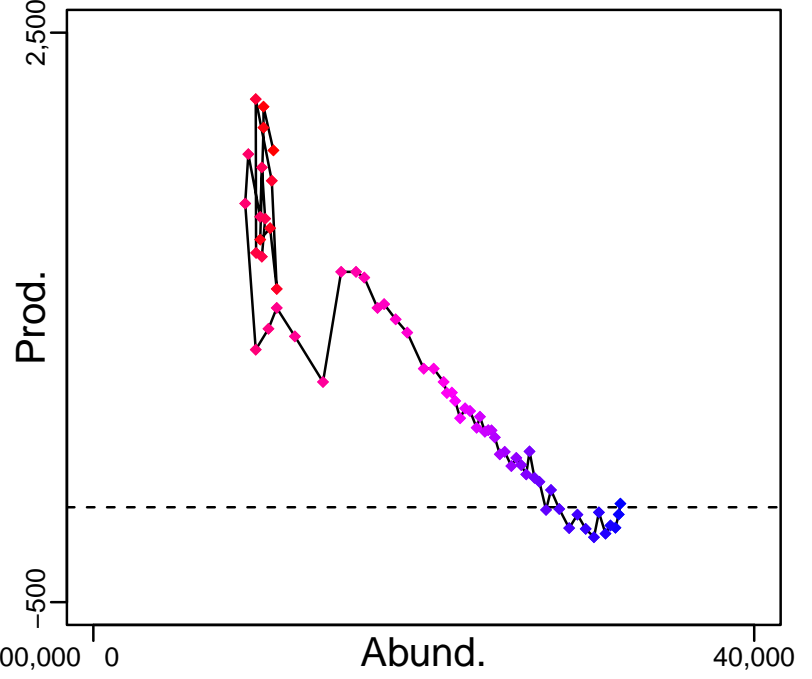
Kobe MGTpref (1950–2017–SISIMP2021–2)



Spawner Recruit (1950–2017–SISIMP2021–2)



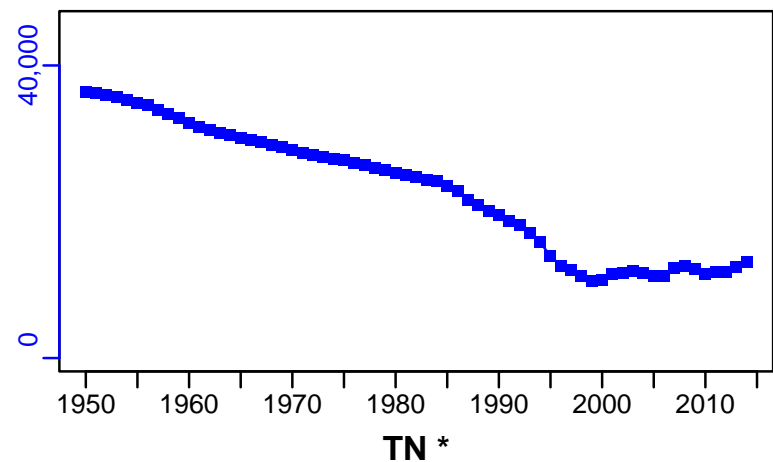
Production (1950–2014–SISIMP2016)



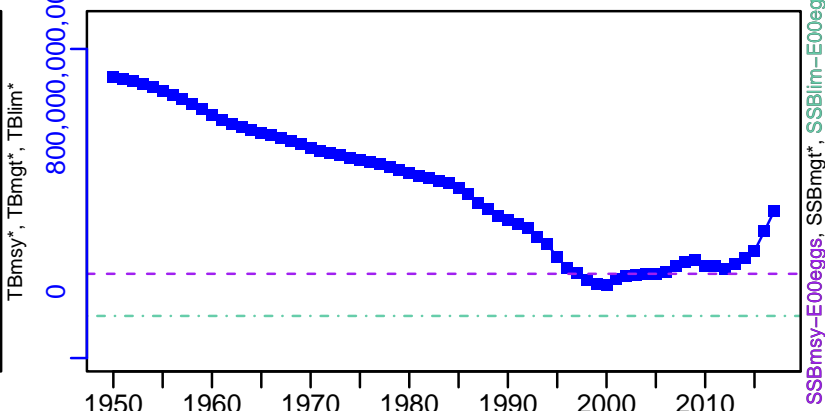
◆ Start Year ◆ End Year \* No Data

# Vermilion snapper Gulf of Mexico [VSNAPGM]

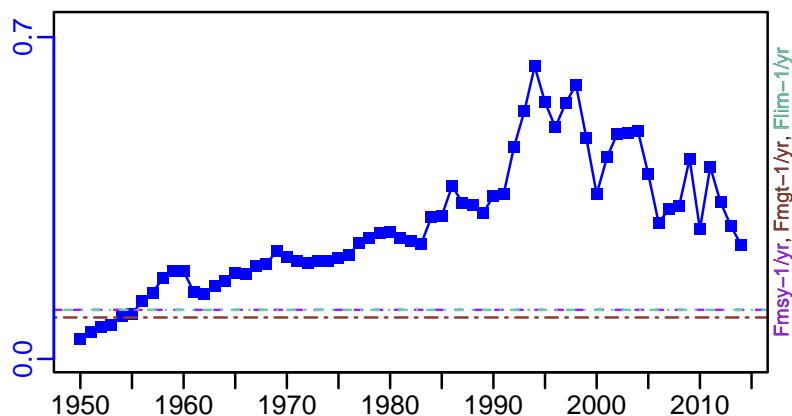
TB-MT (1950–2014–SISIMP2016)



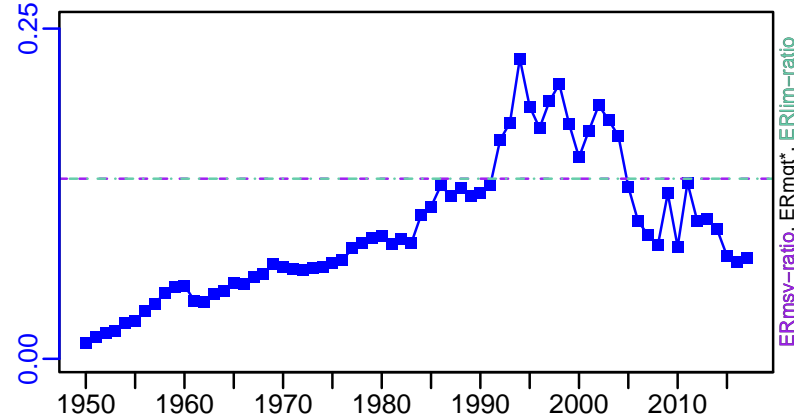
SSB-E00eggs (1950–2017–SISIMP2021–2)



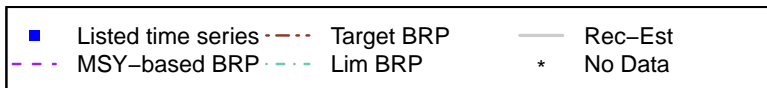
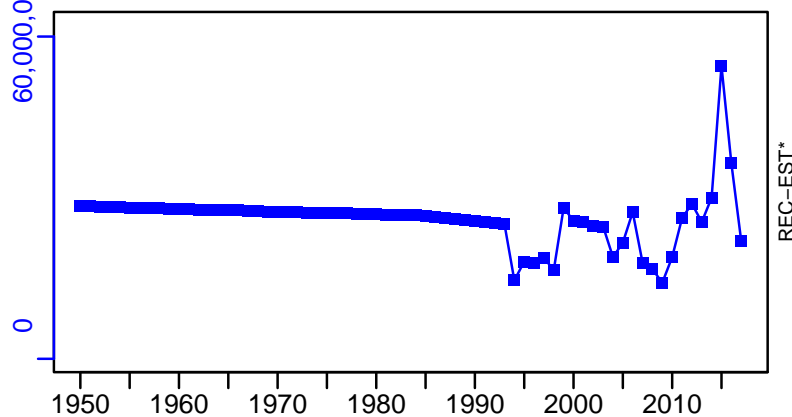
F-1/yr (1950–2014–SISIMP2016)



ER-ratio (1950–2017–SISIMP2021–2)

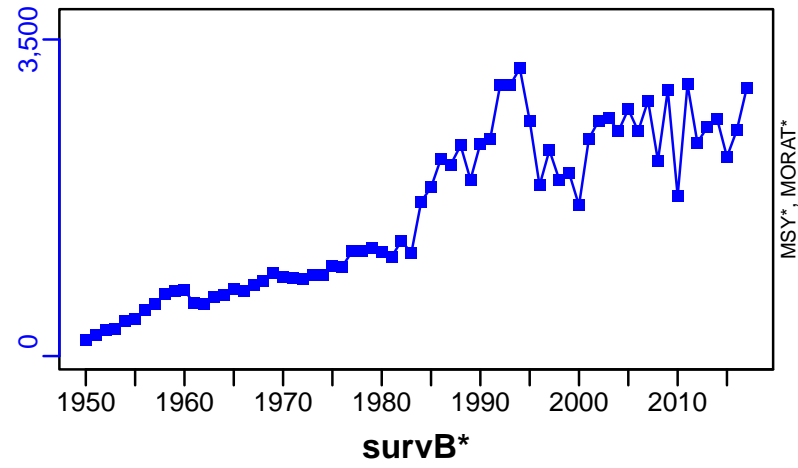


R-E00 (1950–2017–SISIMP2021–2)

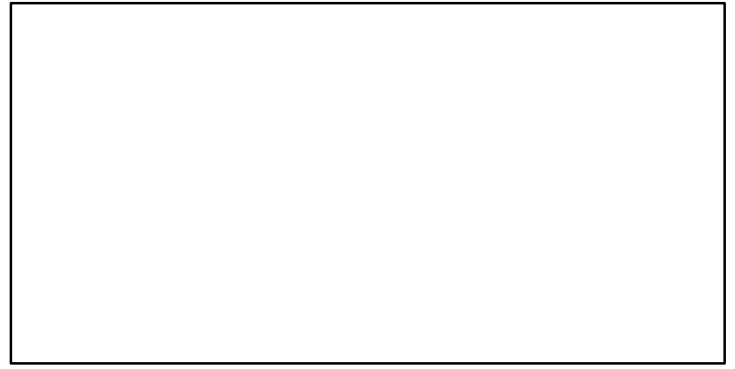


# Vermilion snapper Gulf of Mexico [VSNAPGM]

TC-MT, TL\*, RecC\* (1950–2017–SISIMP2021–2)



TAC\*, Cpair\*, Cadv\*



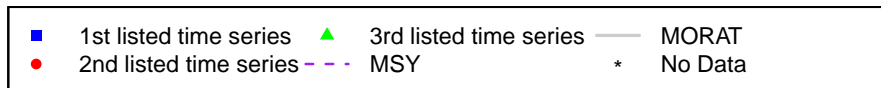
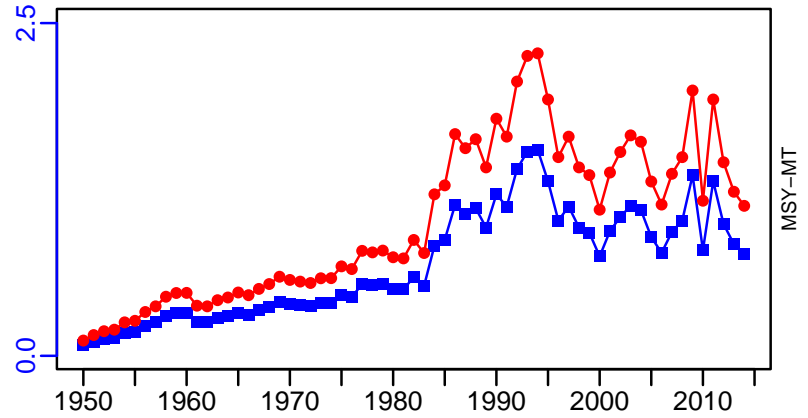
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2014–SISIMP2016)



## Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

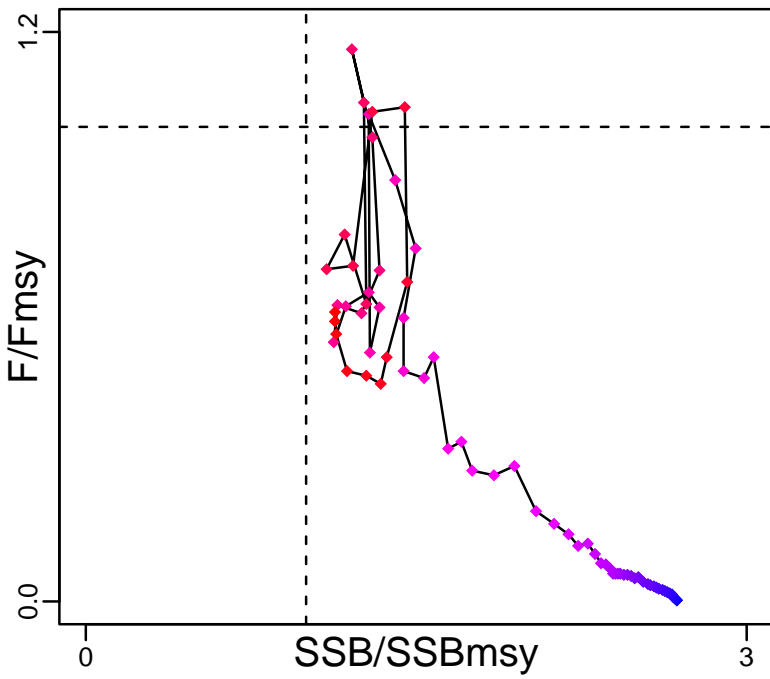
Metadata	
<b>Scientific Name</b>	Rhomboplites aurorubens
<b>Current Assess ID</b>	SEFSC-VSNAPSATLC-1945-2016-SISIMP2021
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2012, 2016

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2012	2252
<b>SSBmsy</b>	SSBmsy-E00eggs	2016	$1.83 \times 10^{13}$
<b>Fmsy</b>	Fmsy-1/yr	2016	0.41
<b>ERmsy</b>	ERmsy-calc-ratio	2012	0.309
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2016	592
<b>M</b>	M-1/yr	2012	0.22
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2016	$1.37 \times 10^{13}$
<b>Flim</b>	Flim-1/yr	2016	0.41
<b>ERlim</b>	-	-	-

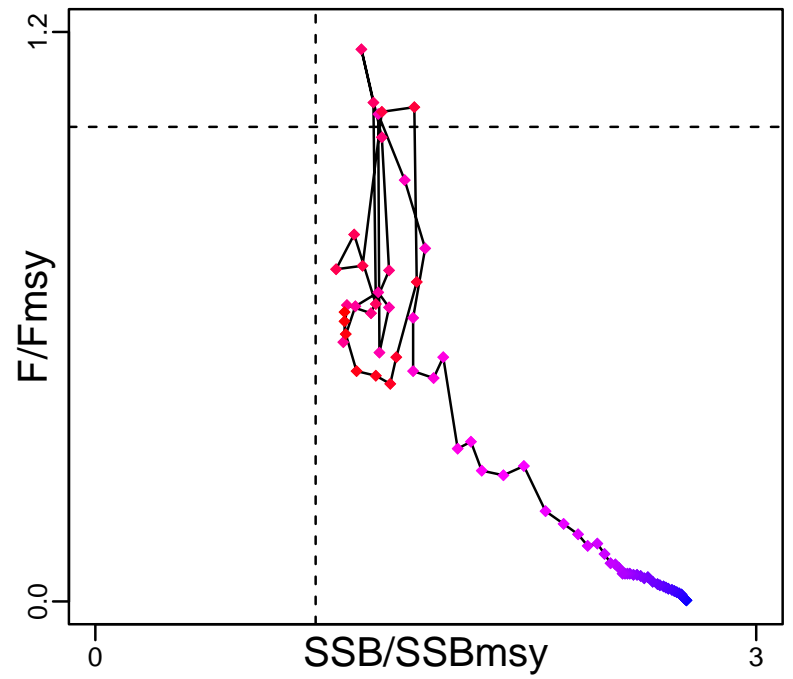
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2012	2120	-	-
<b>SSB</b>	SSB-E00eggs	2016	$2.07 \times 10^{13}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	5,501,271	-	1
<b>F</b>	F-1/yr	2016	0.25	-	-
<b>ER</b>	ER-calc-ratio	2012	0.296	-	-
<b>TC</b>	TC-MT	2016	573		
<b>TL</b>	TL-MT	2012	649		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2012	0.941		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2016	1.131		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.61		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2012	0.958		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

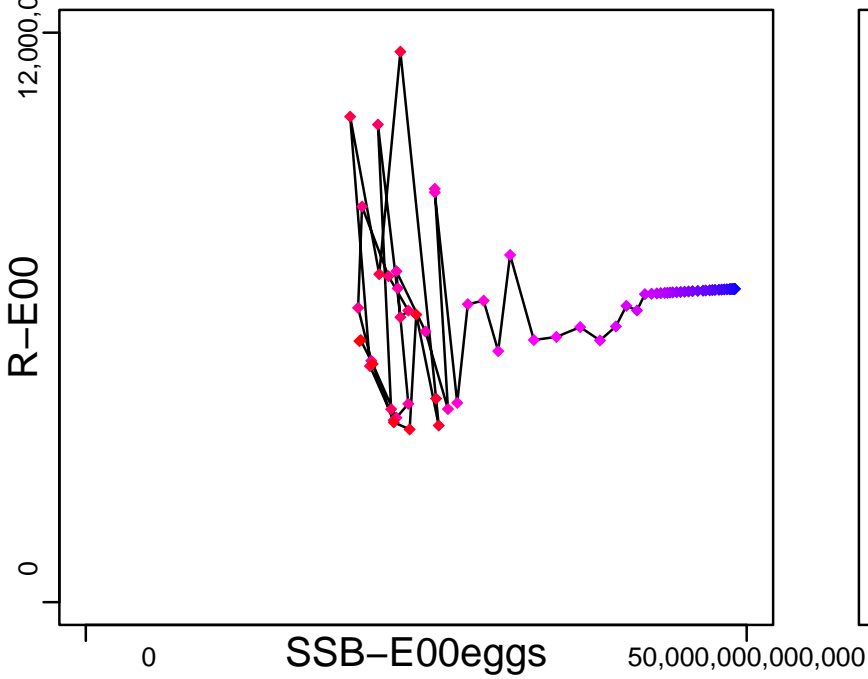
Kobe MSYpref (1945–2016–SISIMP2021)



Kobe MGTpref (1945–2016–SISIMP2021)



Spawner Recruit (1945–2016–SISIMP2021)



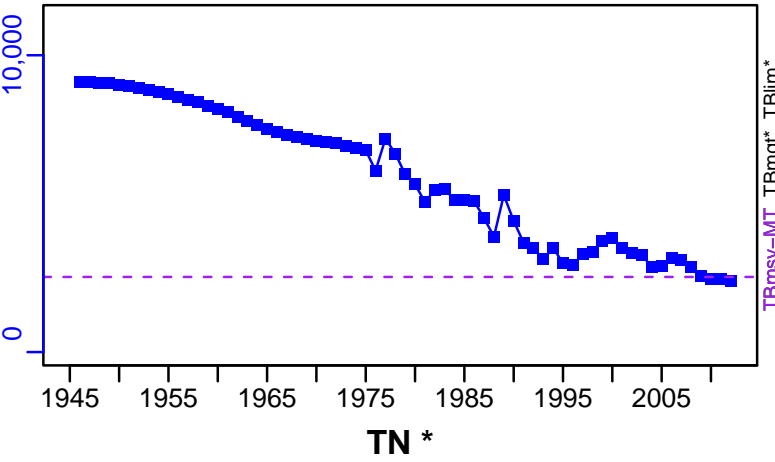
Production\*



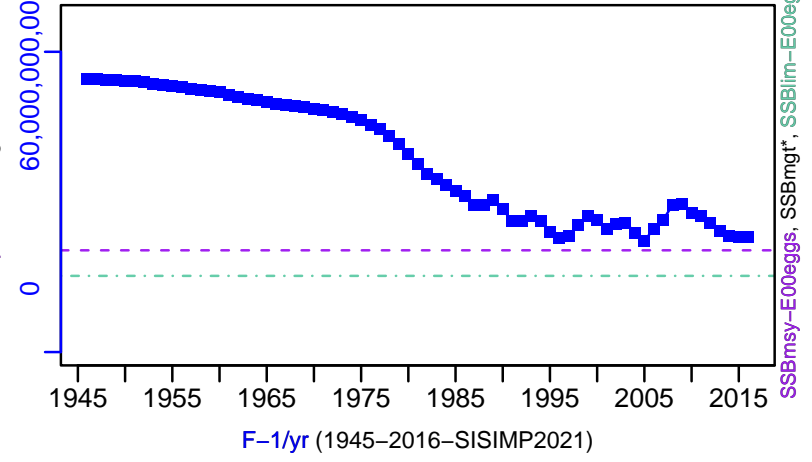
◆ Start Year ◆ End Year \* No Data

# Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

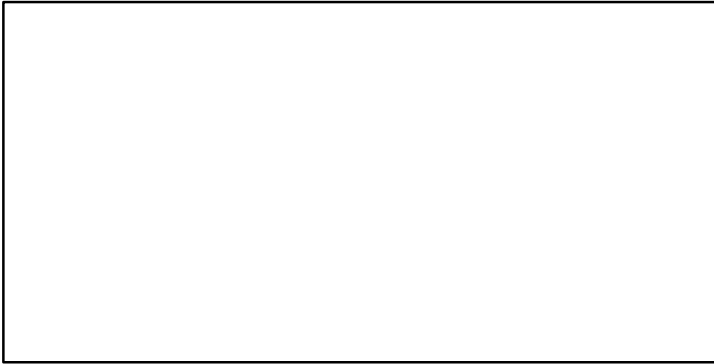
TB-MT (1945–2012–HIVELY)



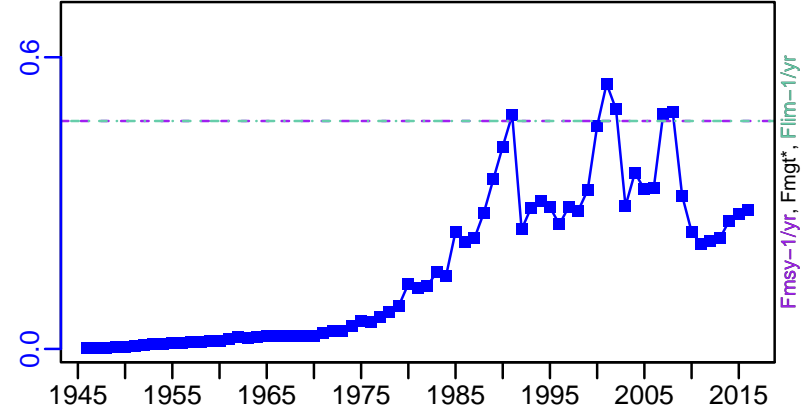
SSB-E00eggs (1945–2016–SISIMP2021)



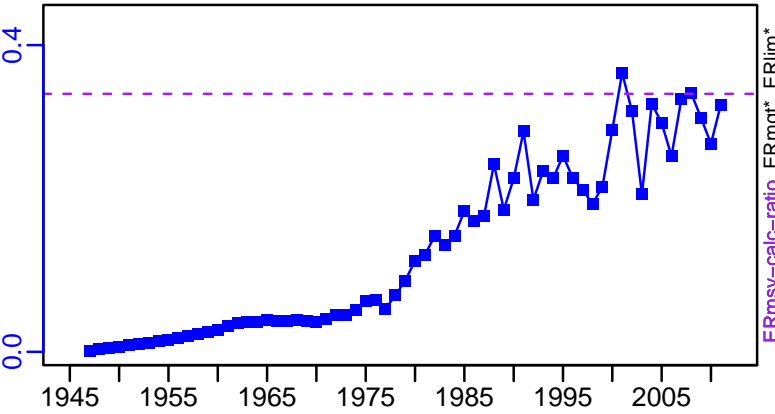
TN \*



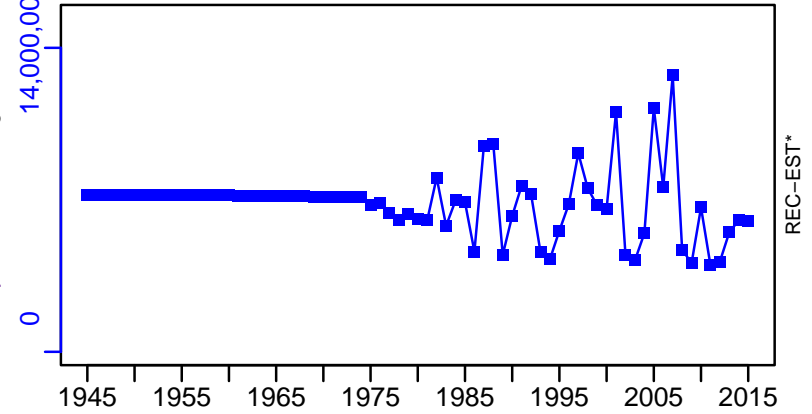
F-1/yr (1945–2016–SISIMP2021)



ER-calc-ratio (1945–2012–HIVELY)

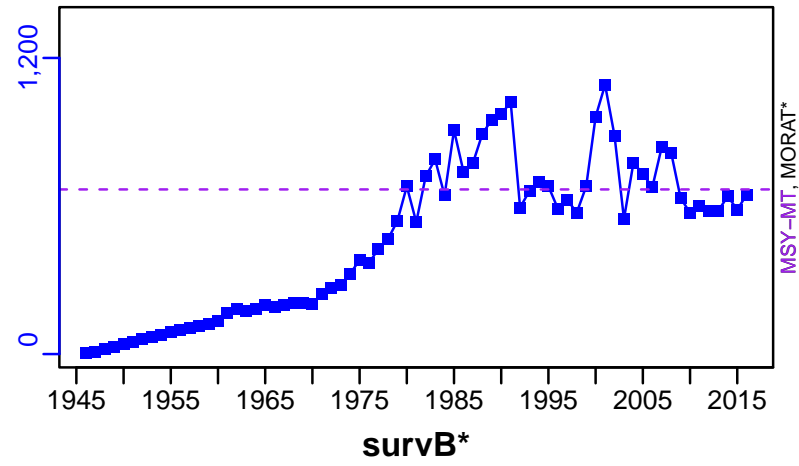


R-E00 (1945–2016–SISIMP2021)

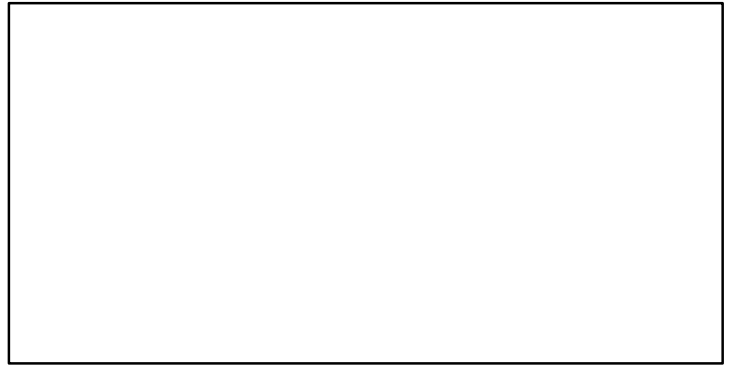


# Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

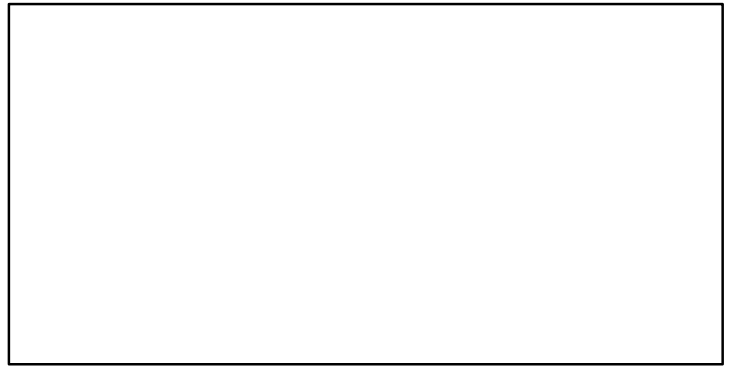
TC-MT, TL\*, RecC\* (1945–2016–SISIMP2021)



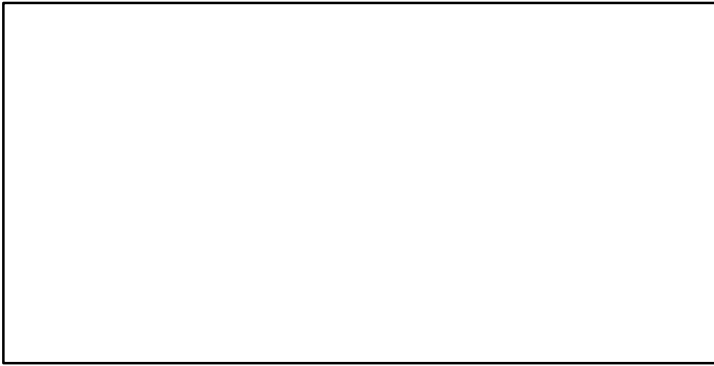
TAC\*, Cpair\*, Cadv\*



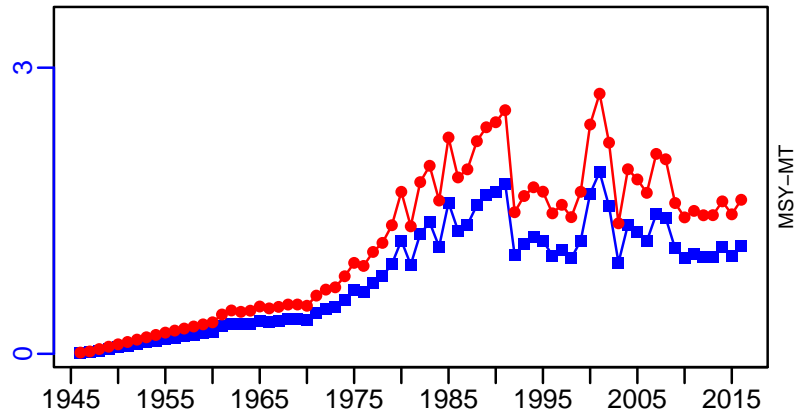
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1945–2016–SISIMP2021)



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

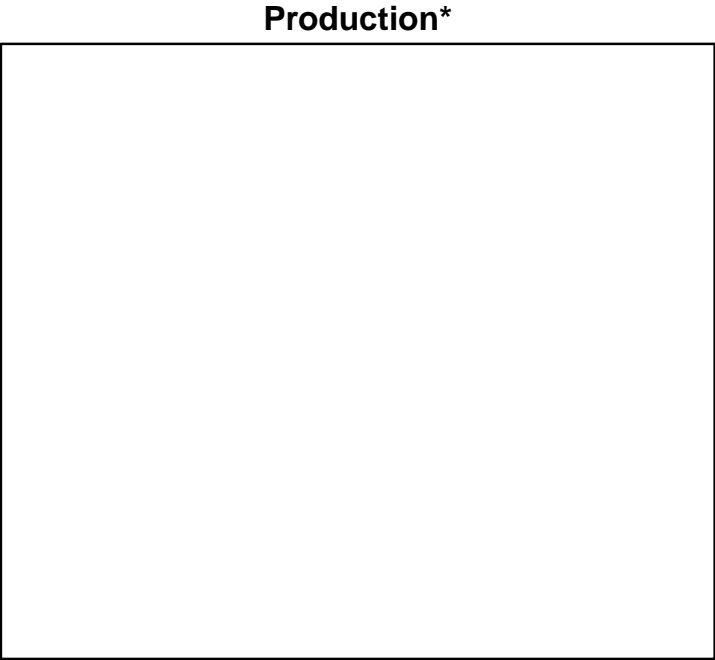
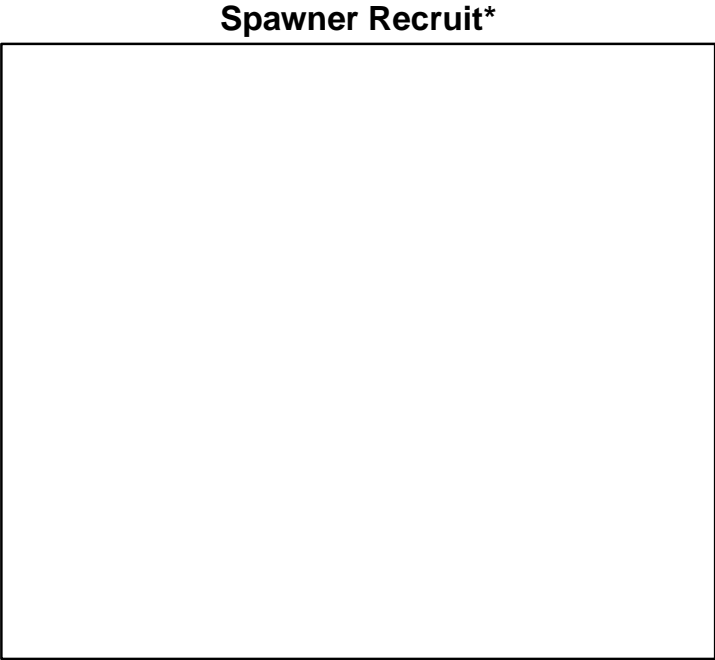
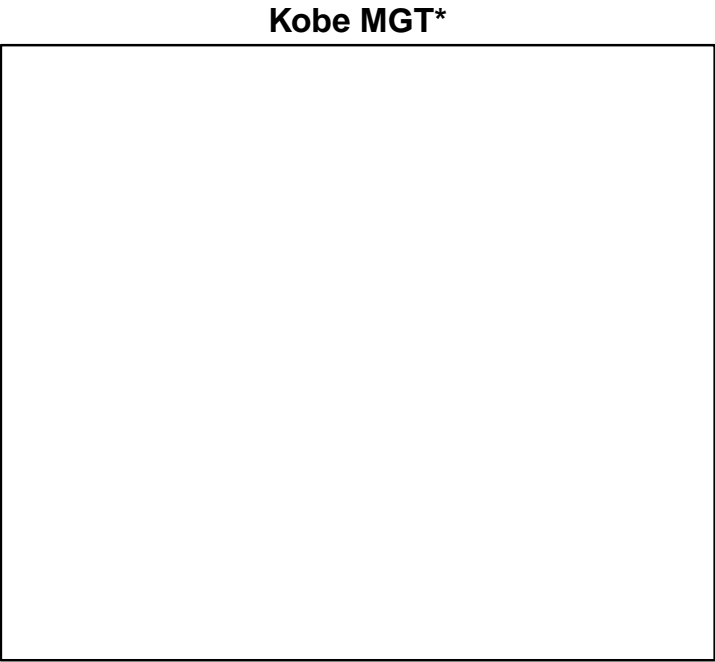
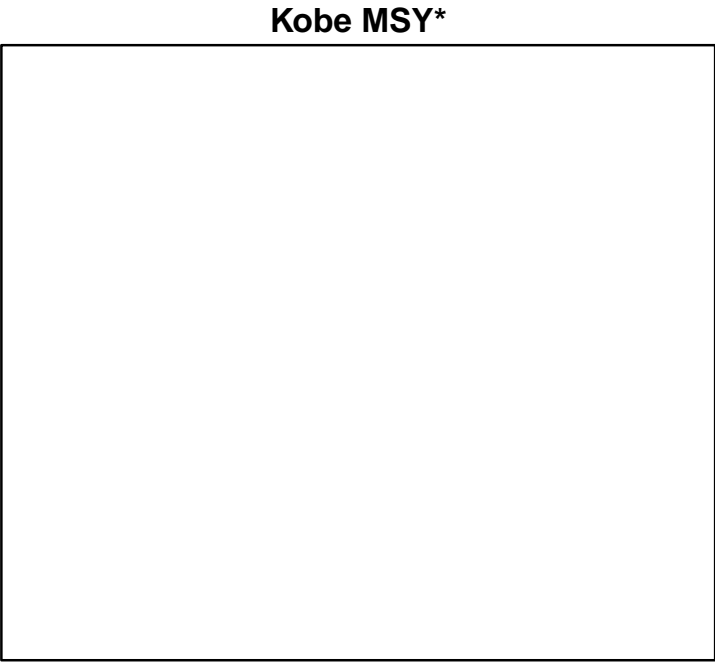


## Weakfish Atlantic Coast [WEAKFISHATLC]

Metadata	
<b>Scientific Name</b>	Cynoscion regalis
<b>Current Assess ID</b>	NEFSC-WEAKFISHATLC-1981-2008-STANTON
<b>Area</b>	Atlantic Coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Northeast Fisheries Science Center
<b>Asmts in RAM</b>	2008

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-pr-MT	2008	10,179
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2008	0.25
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

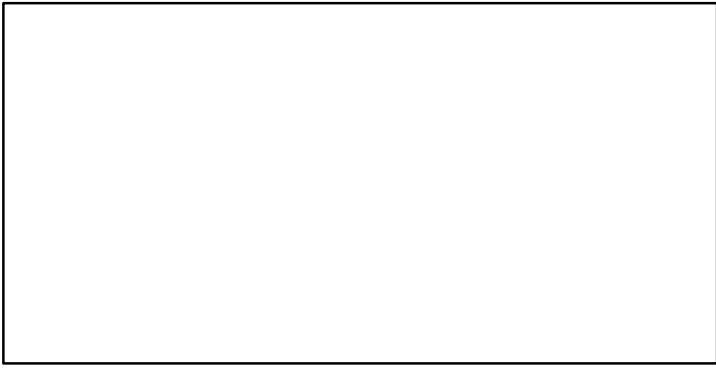
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2008	1330	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2008	0.294	-	-
<b>TC</b>	TC-MT	2008	899		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-pr-MT	2008	0.131		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		



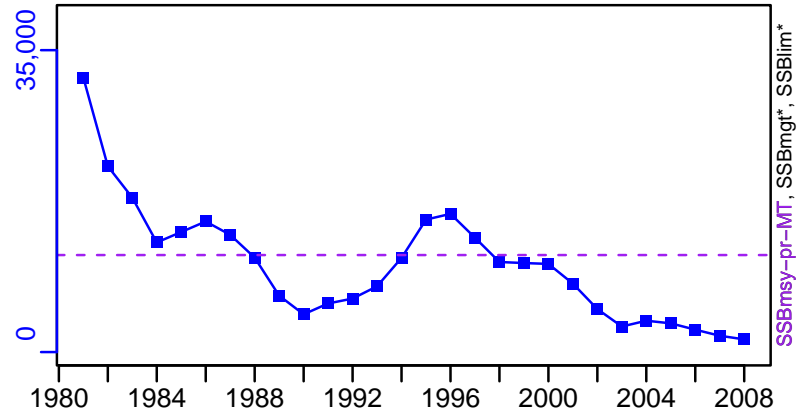
◆ Start Year   ♦ End Year   \* No Data

# Weakfish Atlantic Coast [WEAKFISHATLC]

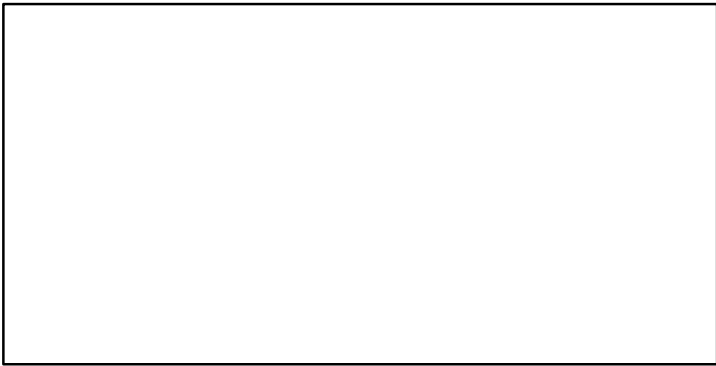
TB\*



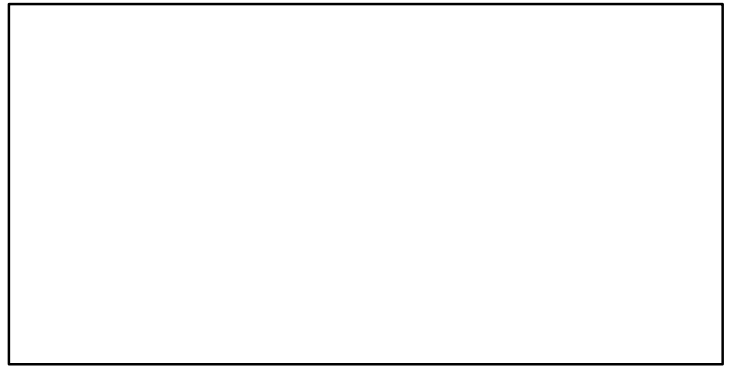
SSB-MT (1981-2008-STANTON)



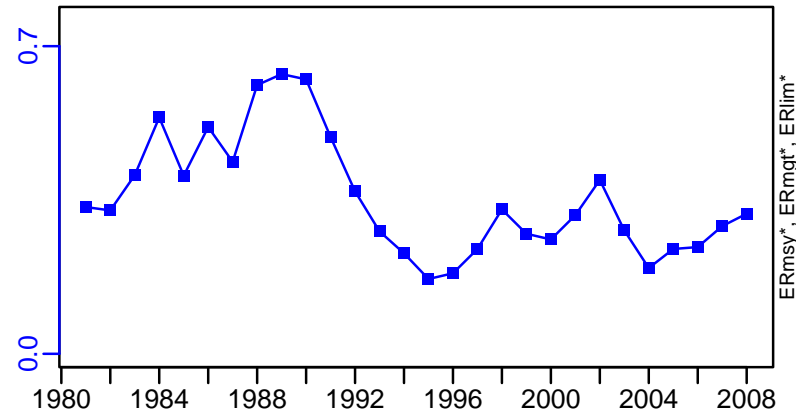
TN \*



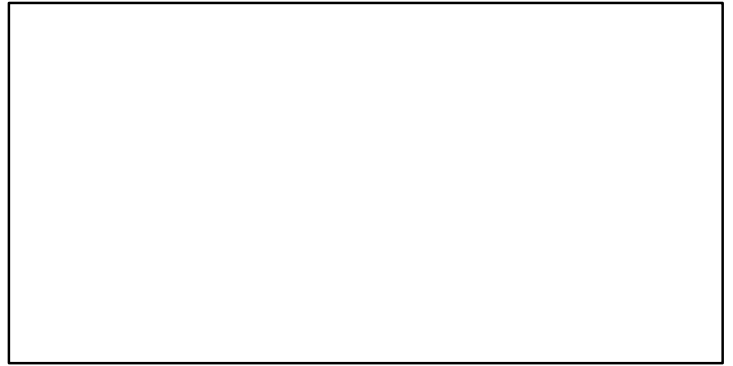
F\*



ER-ratio (1981-2008-STANTON)

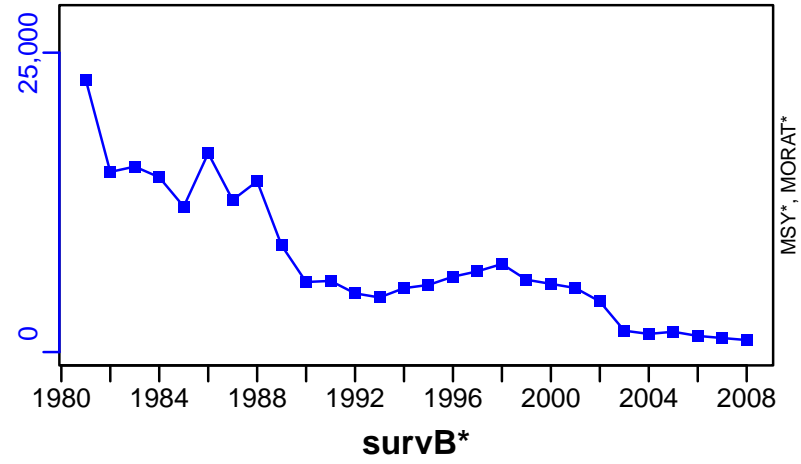


Recruits\*

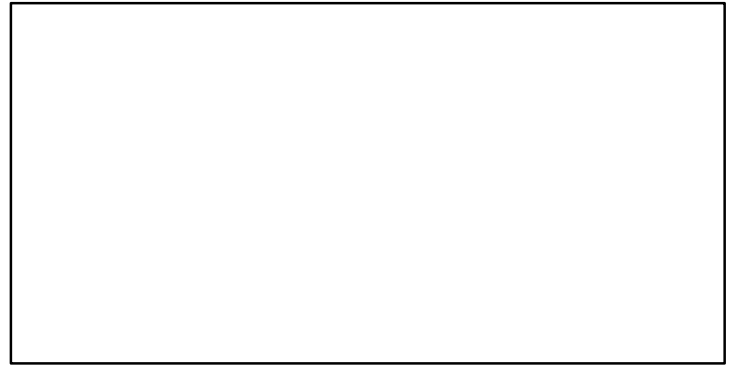


Weakfish Atlantic Coast [WEAKFISHATLC]

TC-MT, TL\*, RecC\* (1981-2008-STANTON)



TAC\*, Cpair\*, Cadv\*



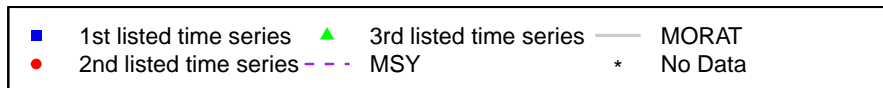
CPUE\*



EFFORT\*



CdivMSY\*



## White grouper North West Africa Mauritania-Senegal [WGROU PNWAMRT-SEN]

Metadata	
<b>Scientific Name</b>	Epinephelus aeneus
<b>Current Assess ID</b>	FAO-DR-WGROU PNWAMRT-SEN-1990-2016-ASHBROOK
<b>Area</b>	North West Africa Mauritania-Senegal
<b>Management Authority</b>	Food and Agriculture Organization of the United Nations
<b>Assessor</b>	FAO/CECAF Working Group on the Assessment of Demersal Resources
<b>Asmts in RAM</b>	2016

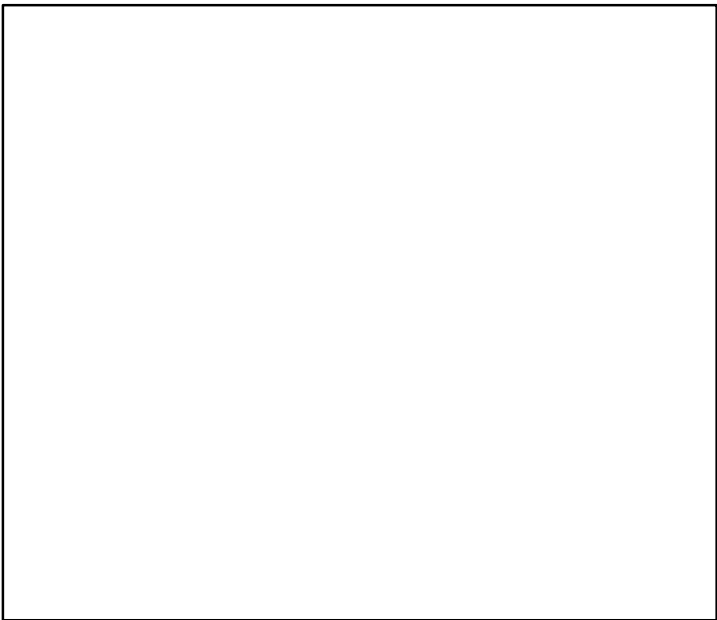
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	6263		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

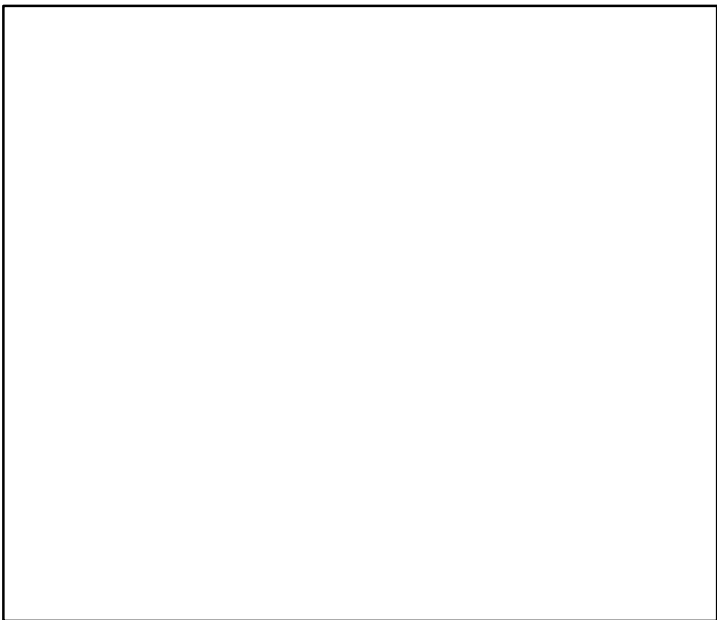
Kobe MSY\*



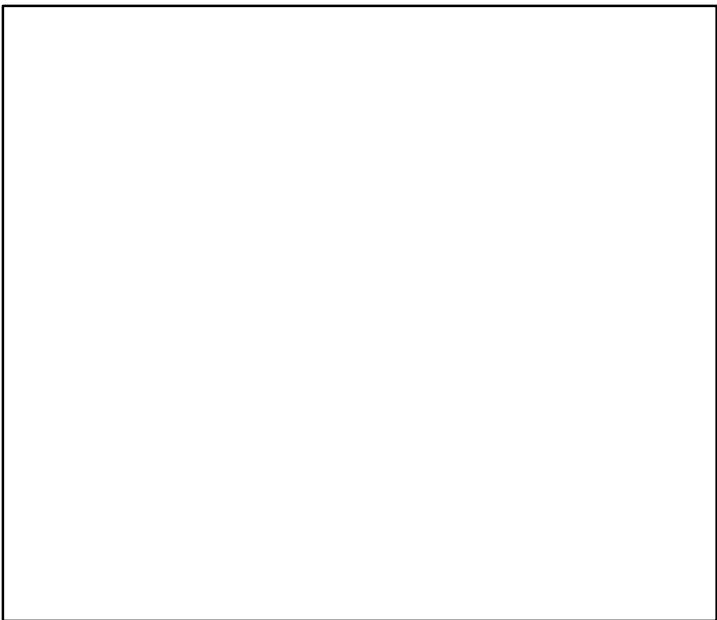
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

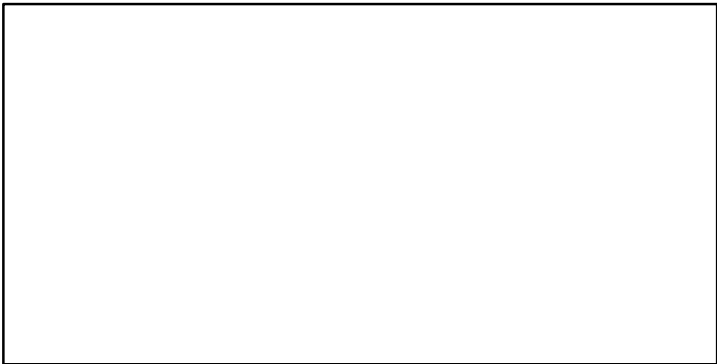
TB\*



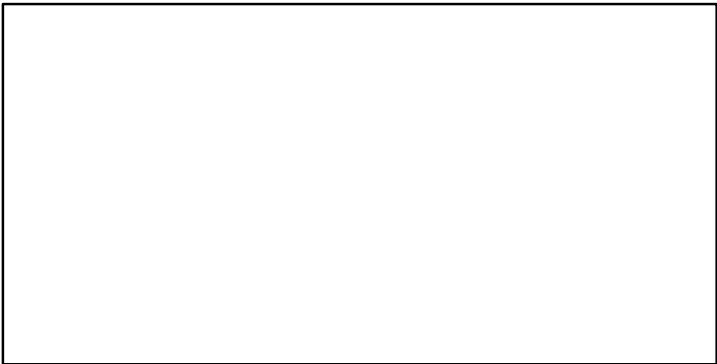
SSB\*



TN \*



F\*



ER\*

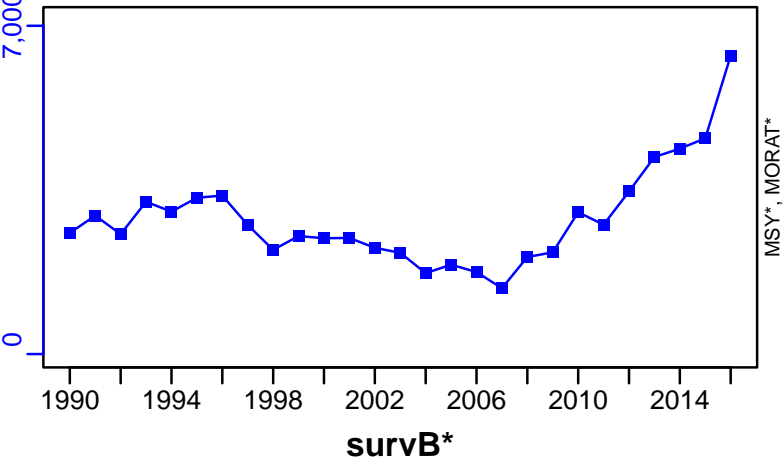


Recruits\*

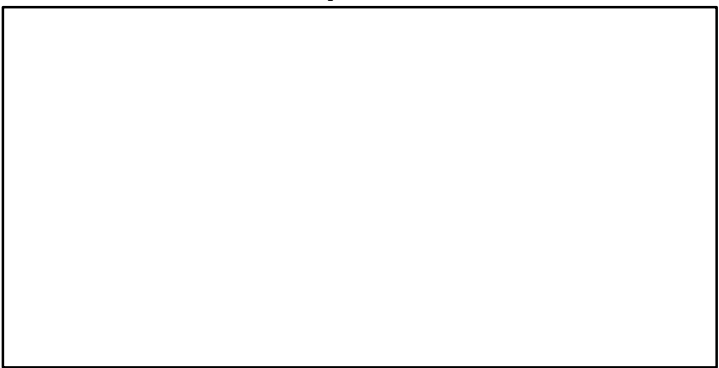


White grouper North West Africa Mauritania–Senegal [WGROUPNWAMRT–SEN]

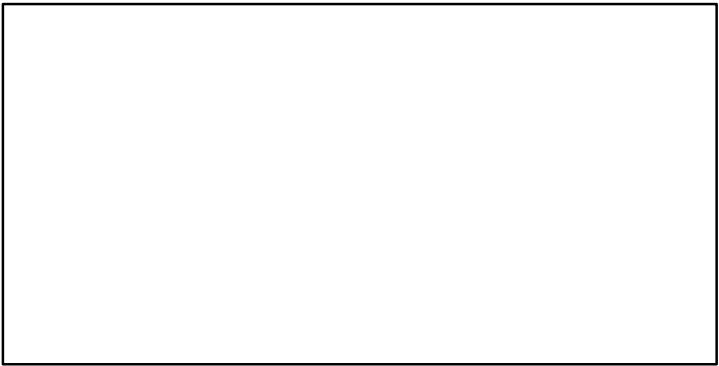
TC–MT, TL\*, RecC\* (1990–2016–ASHBROOK)



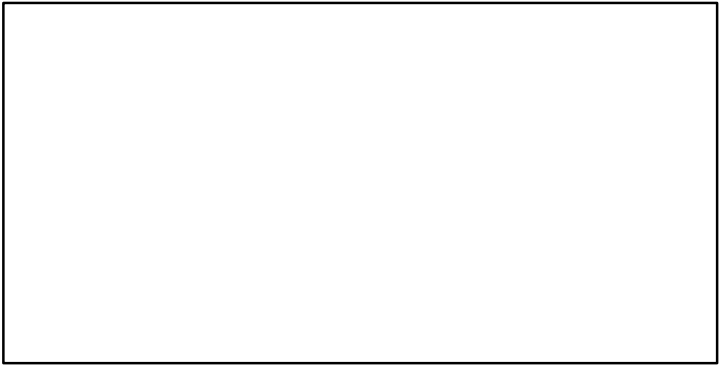
TAC\*, Cpair\*, Cadv\*



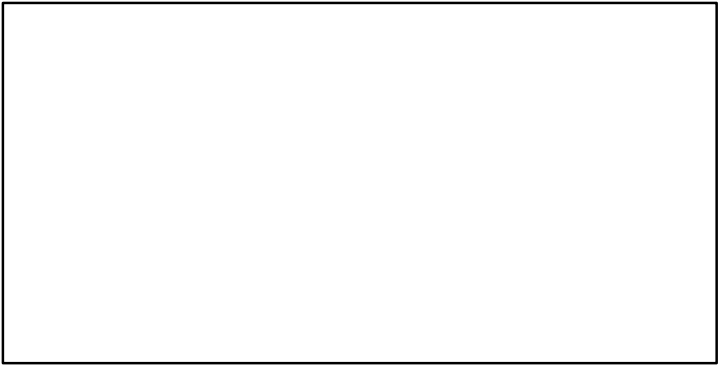
CPUE\*



EFFORT\*



CdivMSY\*





## Whitesaddle goatfish Main Hawaiian Islands [WSGTFMHI]

Metadata	
<b>Scientific Name</b>	Parupeneus porphyreus
<b>Current Assess ID</b>	PIFSC-WSGTFMHI-2004-2015-SISIMP2021
<b>Area</b>	Main Hawaiian Islands
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Pacific Fisheries Science Center
<b>Asmts in RAM</b>	2015

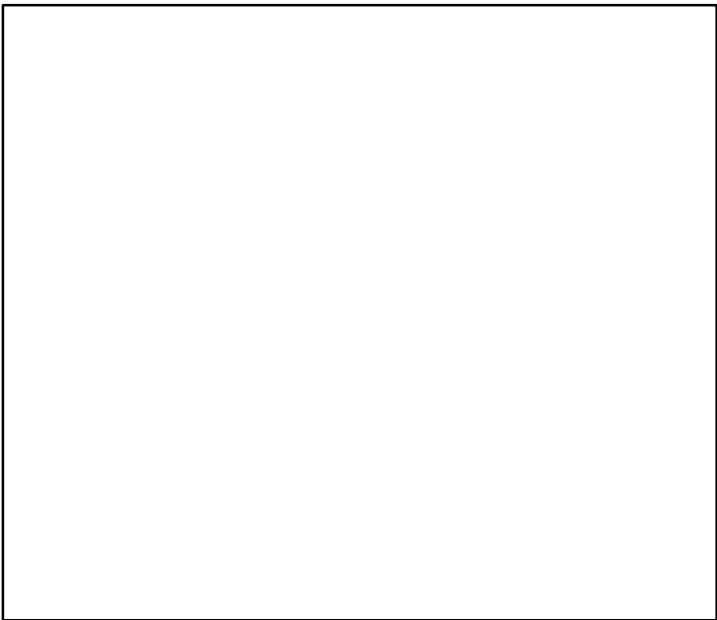
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	4.069		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

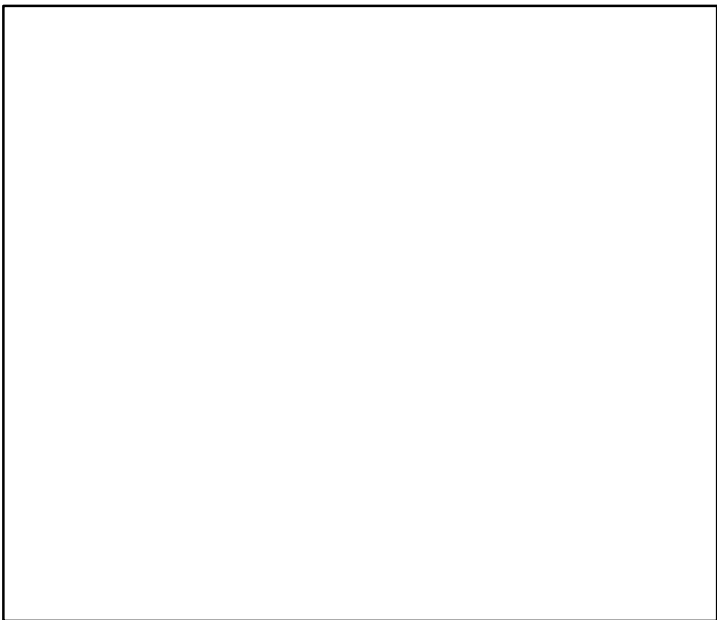
Kobe MSY\*



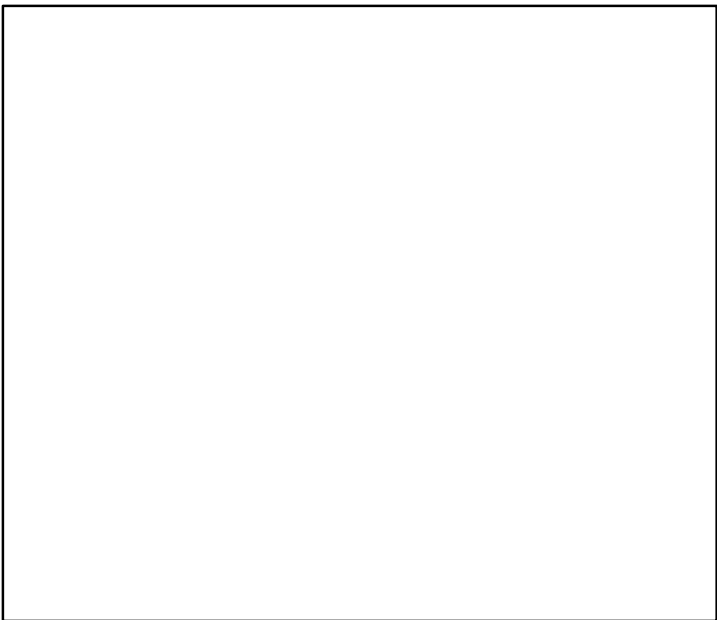
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*



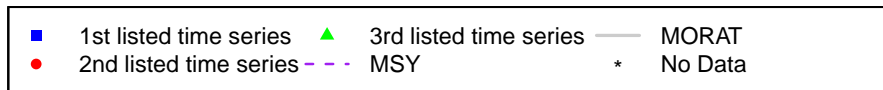
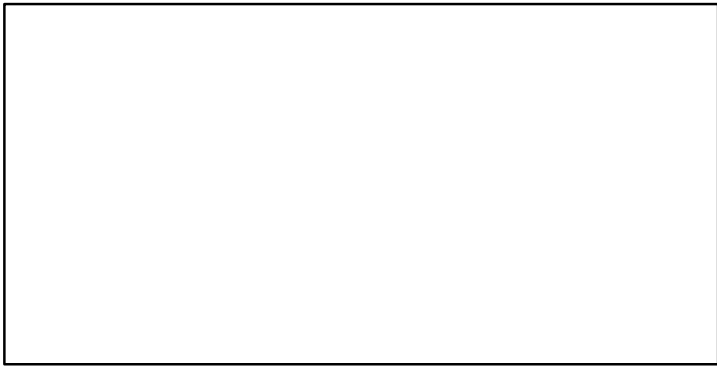
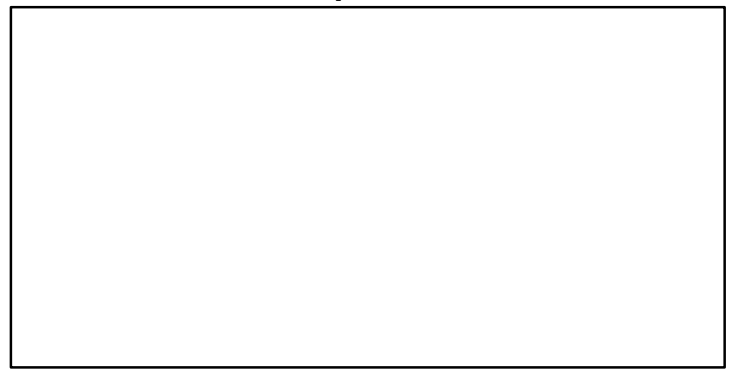
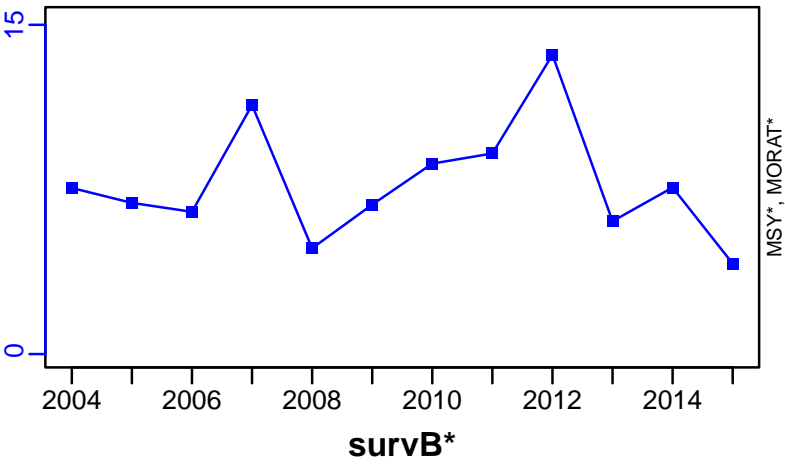
Recruits\*



# Whitesaddle goatfish Main Hawaiian Islands [WSGTFMHI]

TC-MT, TL\*, RecC\* (2004-2015-SISIMP2021)

TAC\*, Cpair\*, Cadv\*



## Yellowedge grouper Gulf of Mexico [YEGROUPGM]

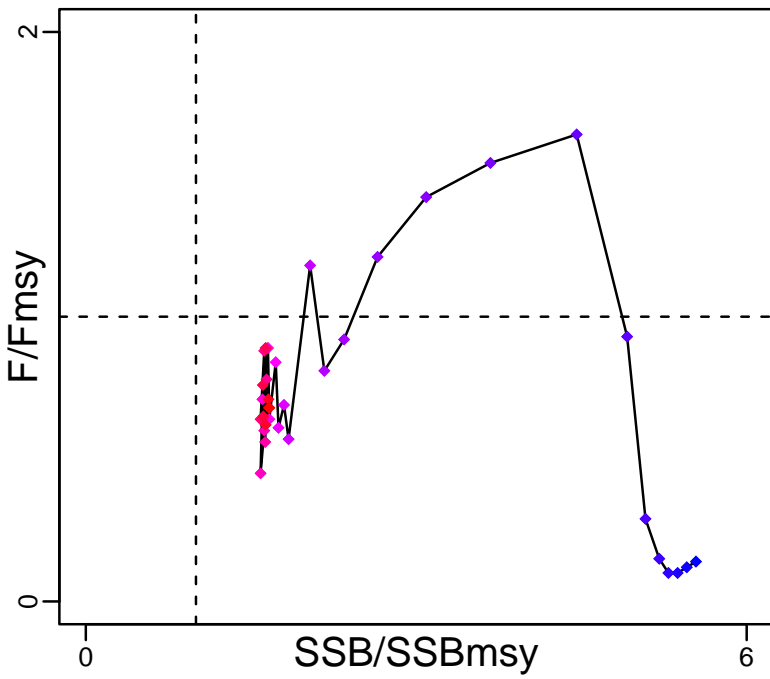
Metadata	
<b>Scientific Name</b>	Epinephelus flavolimbatus
<b>Current Assess ID</b>	SEFSC-YEGROUPGM-1975-2009-HIVELY
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2009

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2009	2401
<b>Fmsy</b>	Fmsy-1/yr	2009	0.1
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2009	375
<b>M</b>	M-1/yr	2009	0.07
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

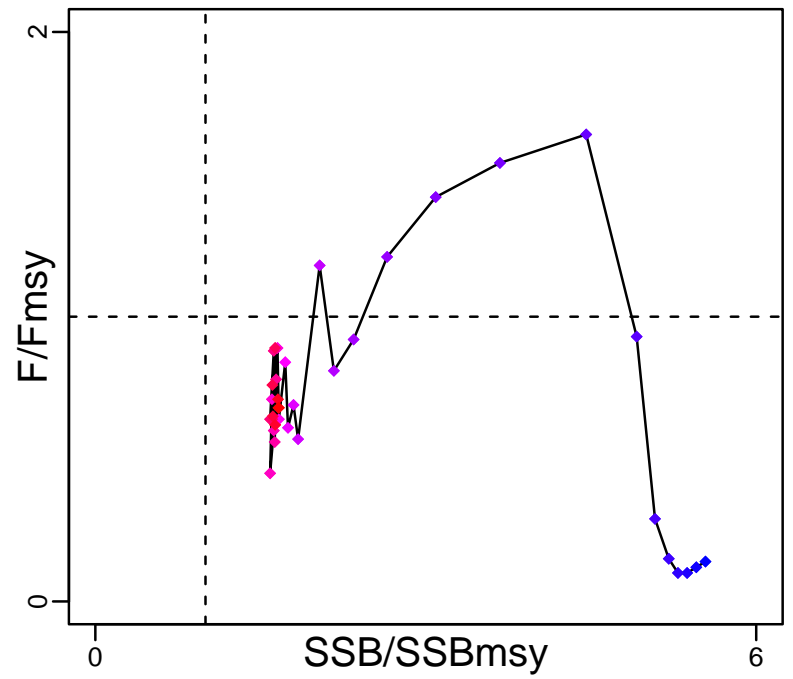
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2009	5530	-	-
<b>SSB</b>	SSB-MT	2009	4000	Both	8+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2009	801,000	-	-
<b>F</b>	F-1/yr	2009	0.068	-	-
<b>ER</b>	ER-calc-ratio	2009	0.068	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2009	376		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2009	1.666		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2009	0.68		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Yellowedge grouper Gulf of Mexico [YEGROUPGM]

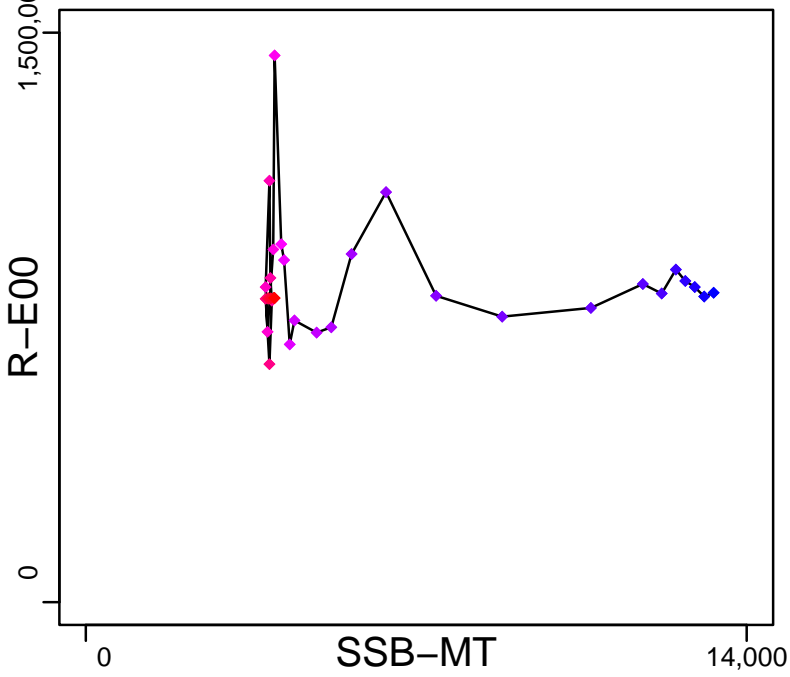
Kobe MSYpref (1975–2009–HIVELY)



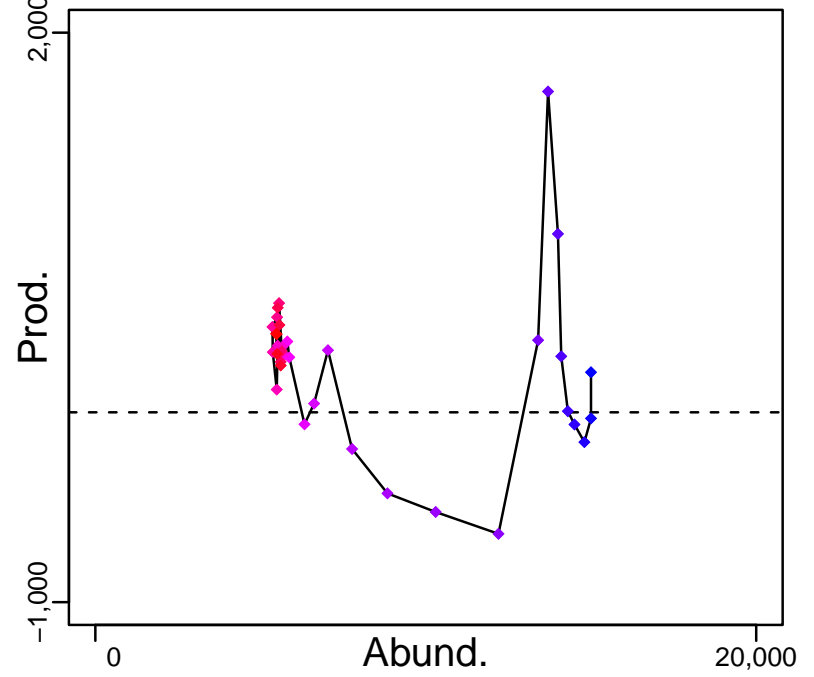
Kobe MGTpref (1975–2009–HIVELY)



Spawner Recruit (1975–2009–HIVELY)



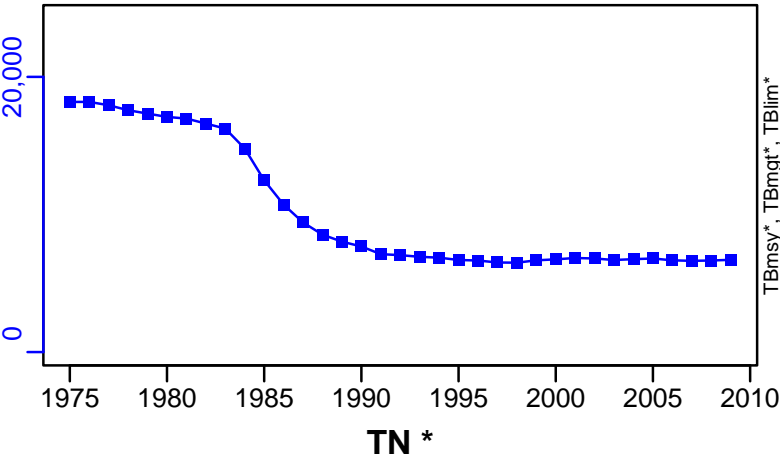
Production (1975–2009–HIVELY)



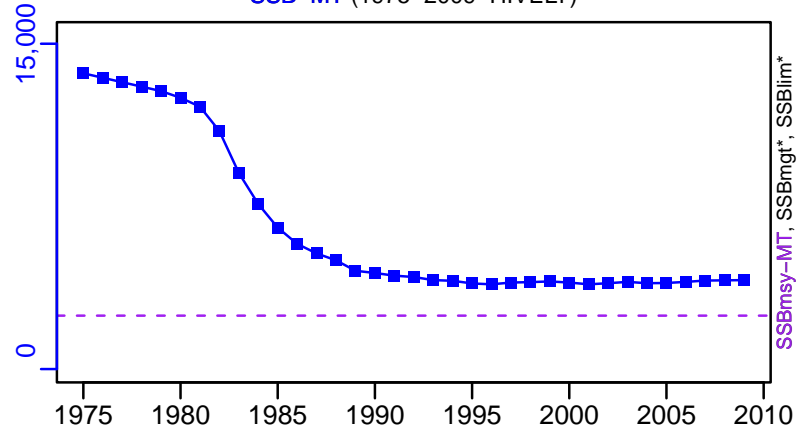
◆ Start Year ◆ End Year \* No Data

# Yellowedge grouper Gulf of Mexico [YEGROUPGM]

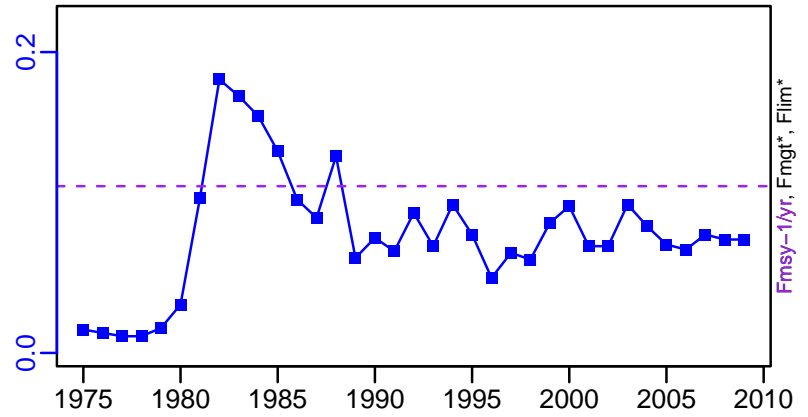
TB-MT (1975–2009–HIVELY)



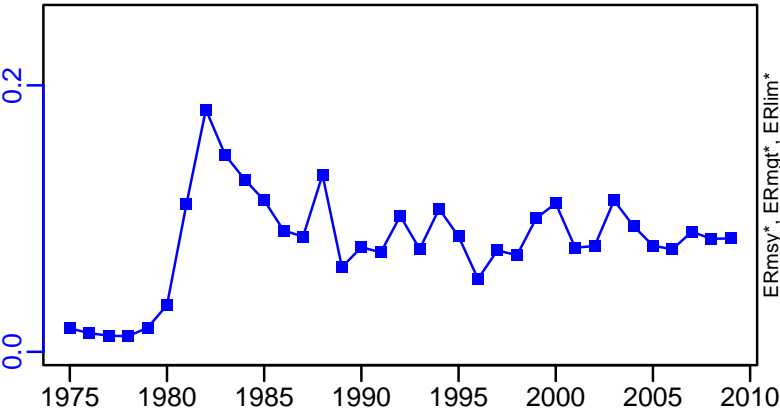
SSB-MT (1975–2009–HIVELY)



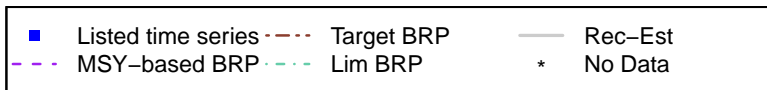
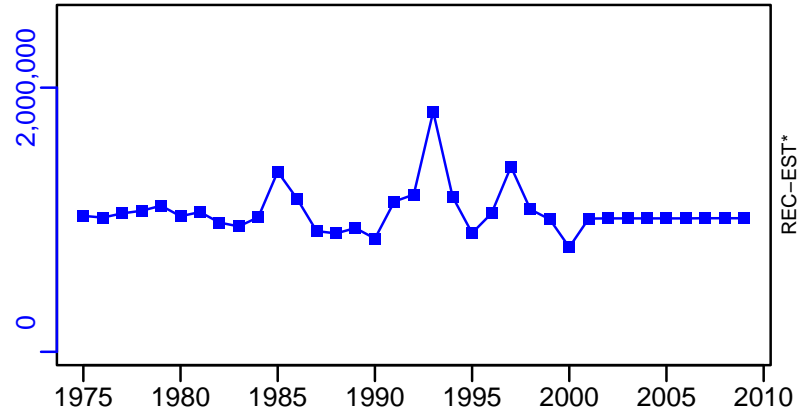
F-1/yr (1975–2009–HIVELY)



ER-calc-ratio (1975–2009–HIVELY)



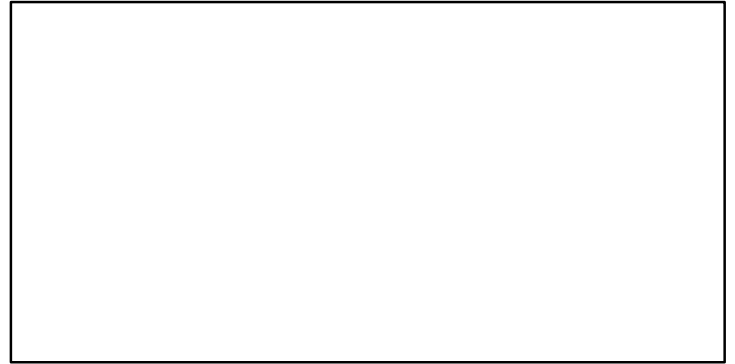
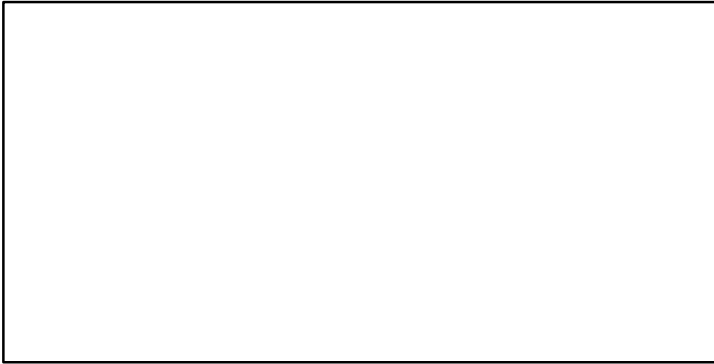
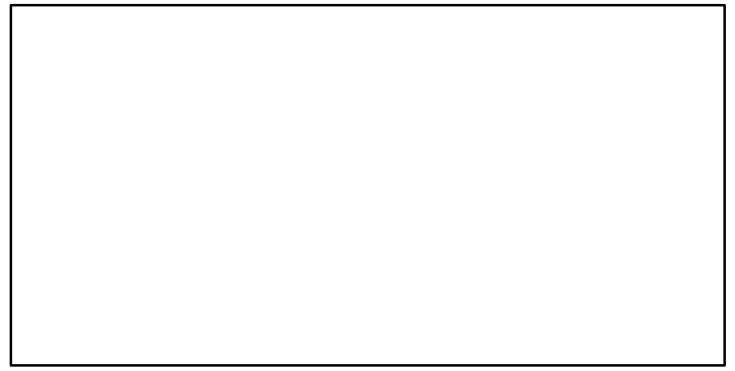
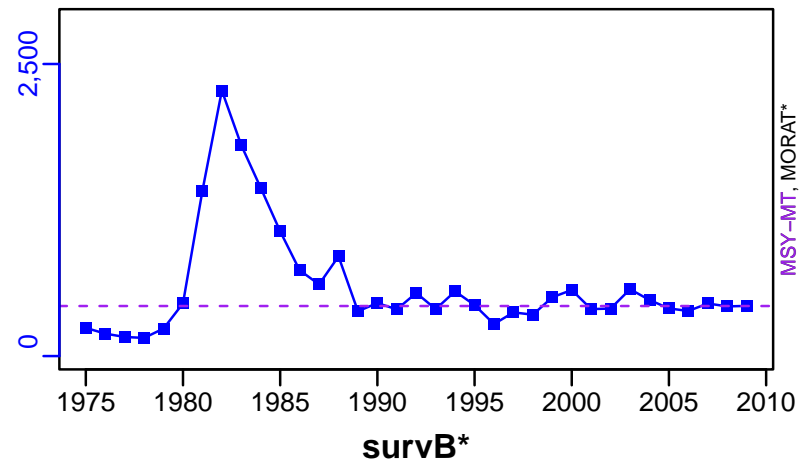
R-E00 (1975–2009–HIVELY)



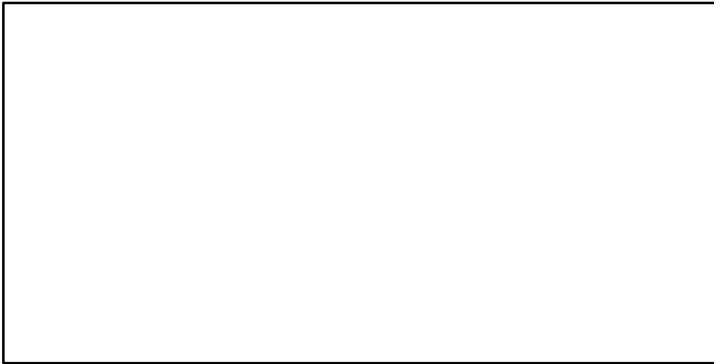
# Yellowedge grouper Gulf of Mexico [YEGROUPGM]

TL-MT, TC\*, RecC\* (1975–2009–HIVELY)

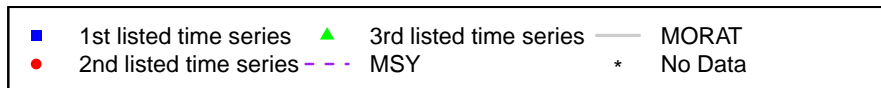
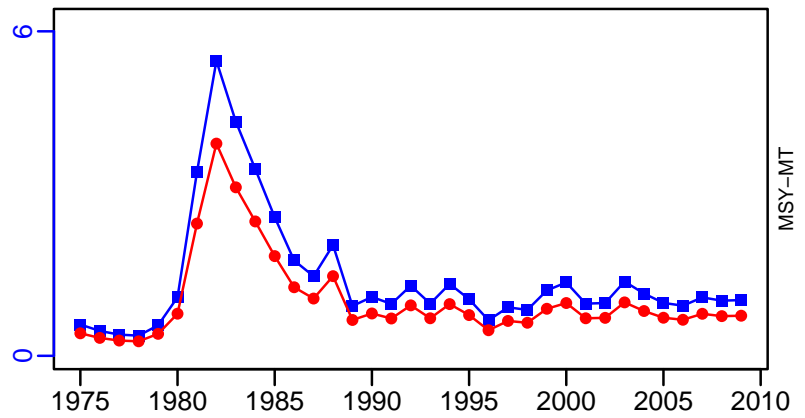
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TL-MT/MSY-MT, CdivMEANC-ratio, (1975–2009–HIVELY)





## Yellowfin goatfish Main Hawaiian Islands [YFGTFMHI]

Metadata	
<b>Scientific Name</b>	Mulloidies vanicolensis
<b>Current Assess ID</b>	PIFSC-YFGTFMHI-2004-2015-SISIMP2021
<b>Area</b>	Main Hawaiian Islands
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Pacific Fisheries Science Center
<b>Asmts in RAM</b>	2015

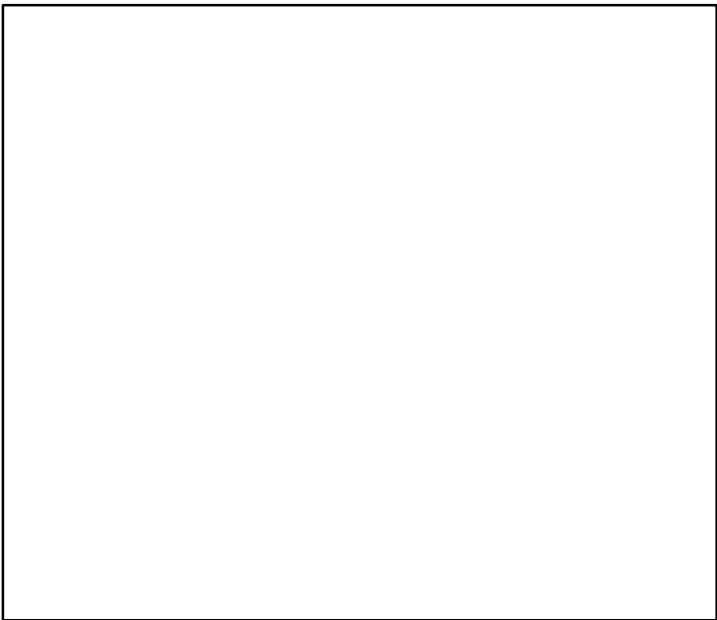
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	182		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

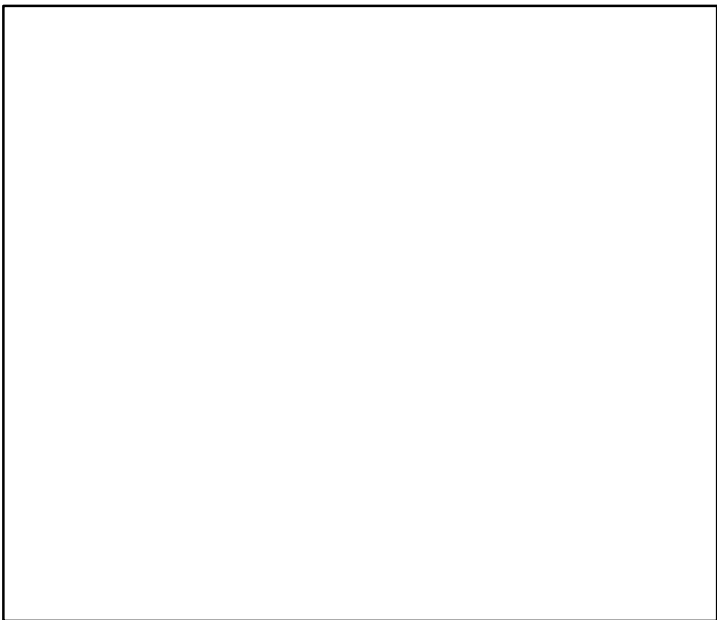
Kobe MSY\*



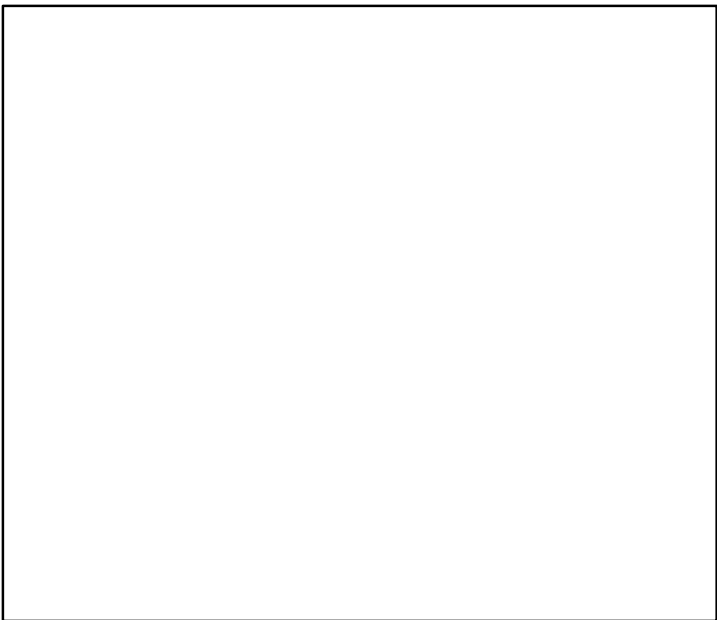
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Yellowfin goatfish Main Hawaiian Islands [YFGTFMHI]

TB\*



SSB\*



TN \*



F\*



ER\*



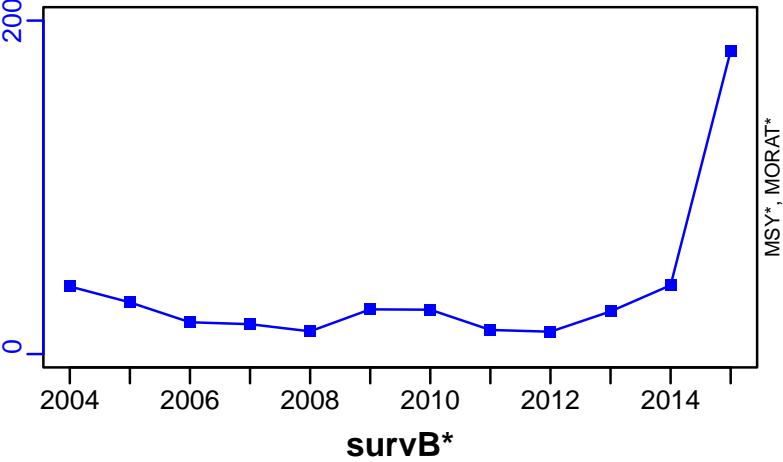
Recruits\*



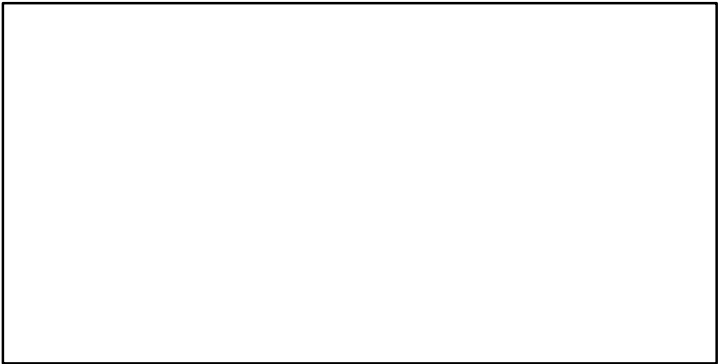
■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	· · · Lim BRP	* No Data

Yellowfin goatfish Main Hawaiian Islands [YFGTFMHI]

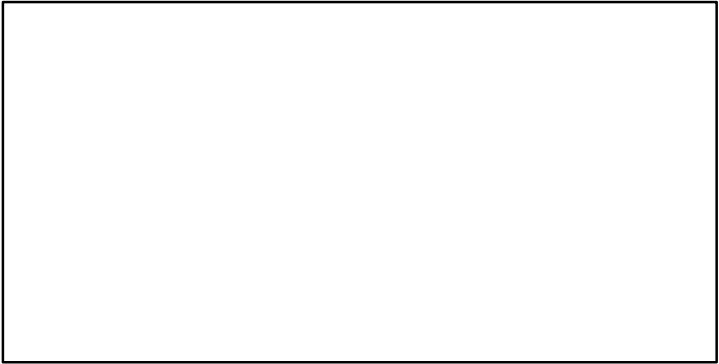
TC-MT, TL\*, RecC\* (2004-2015-SISIMP2021)



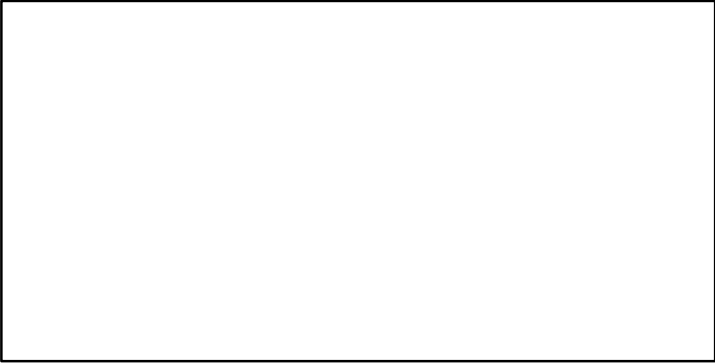
TAC\*, Cpair\*, Cadv\*



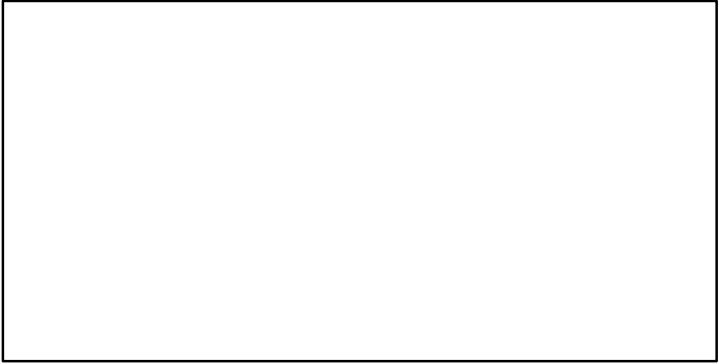
CPUE\*



EFFORT\*



CdivMSY\*



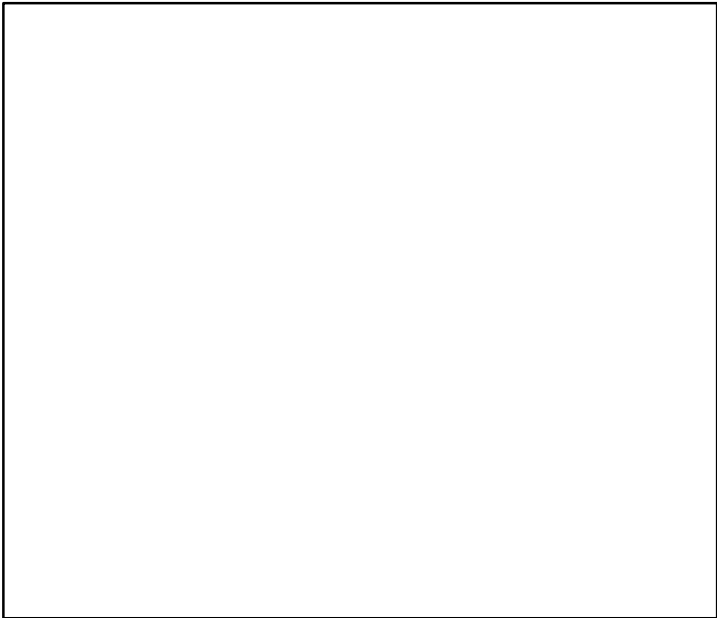
## Yellowstripe goatfish Main Hawaiian Islands [YSGTFMHI]

Metadata	
<b>Scientific Name</b>	Mulloidichthys flavolineatus
<b>Current Assess ID</b>	PIFSC-YSGTFMHI-2004-2015-SISIMP2021
<b>Area</b>	Main Hawaiian Islands
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Pacific Fisheries Science Center
<b>Asmts in RAM</b>	2015

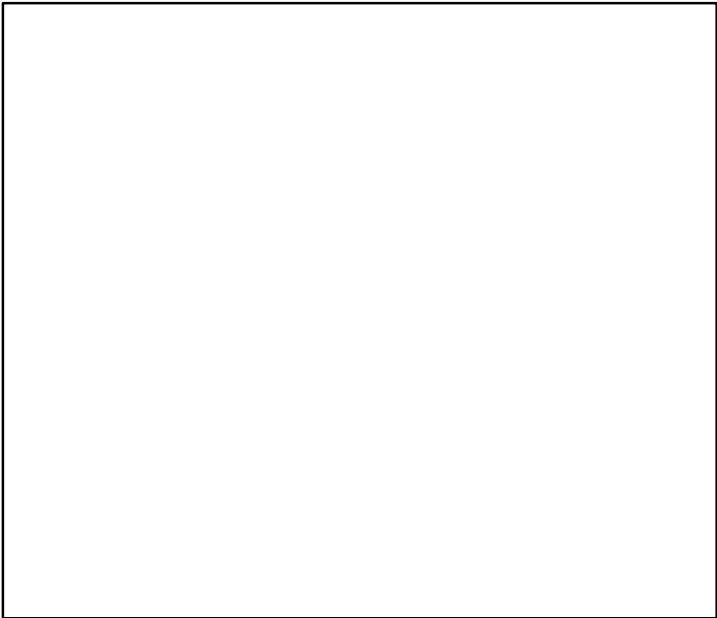
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	129		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

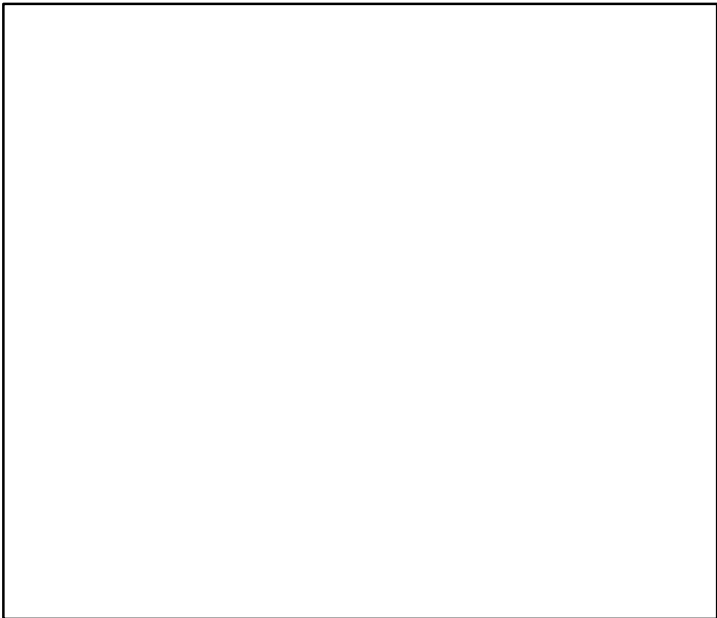
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Yellowstripe goatfish Main Hawaiian Islands [YSGTFMHI]

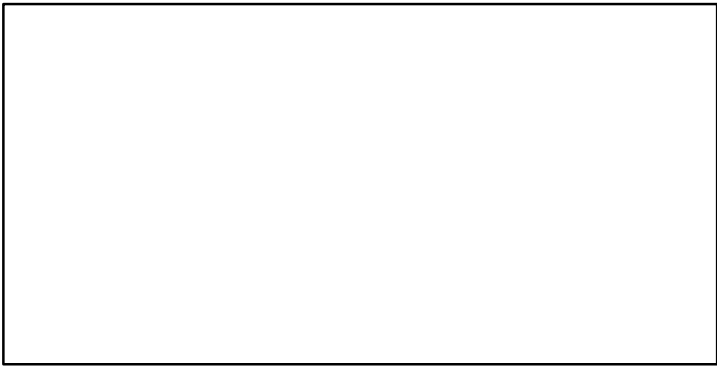
TB\*



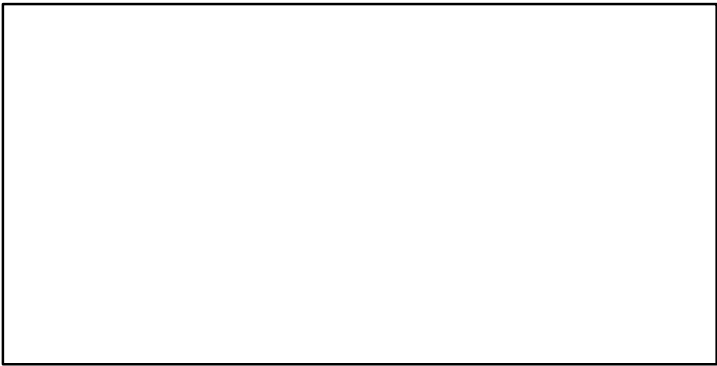
SSB\*



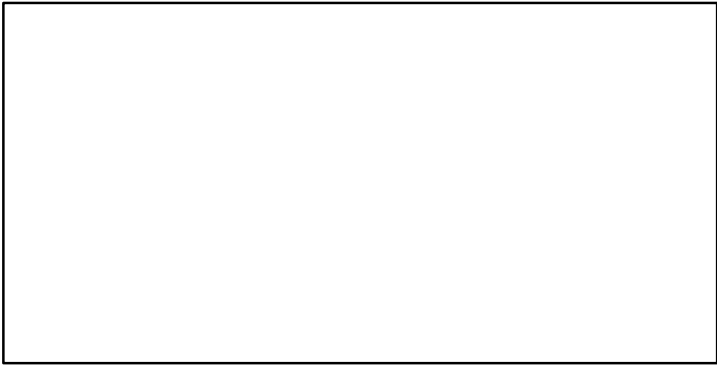
TN \*



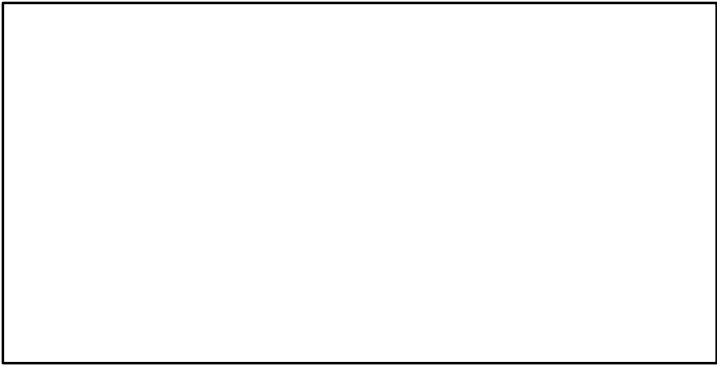
F\*



ER\*



Recruits\*



■ Listed time series

--- MSY-based BRP

--- Target BRP

--- Lim BRP

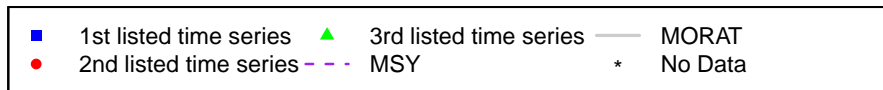
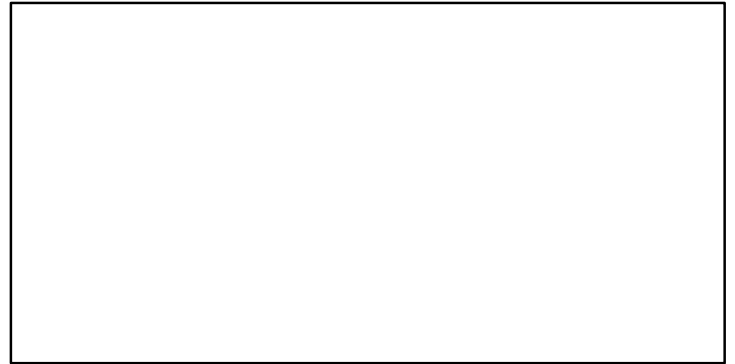
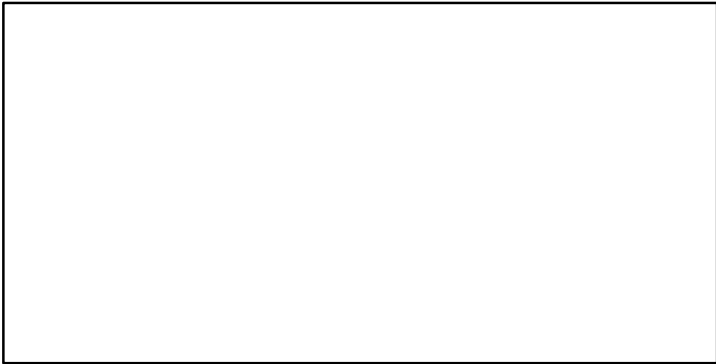
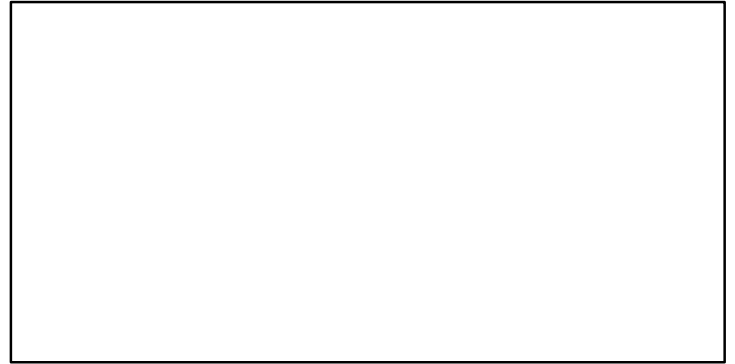
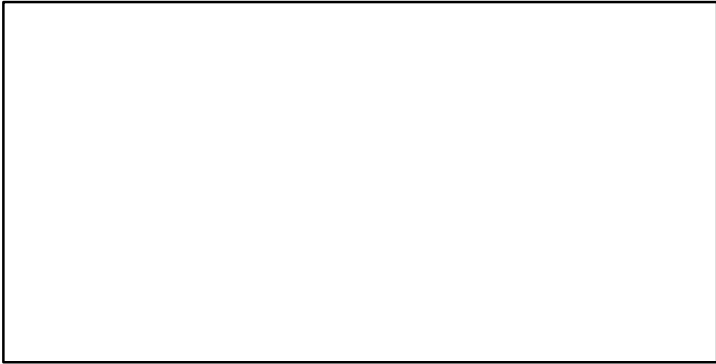
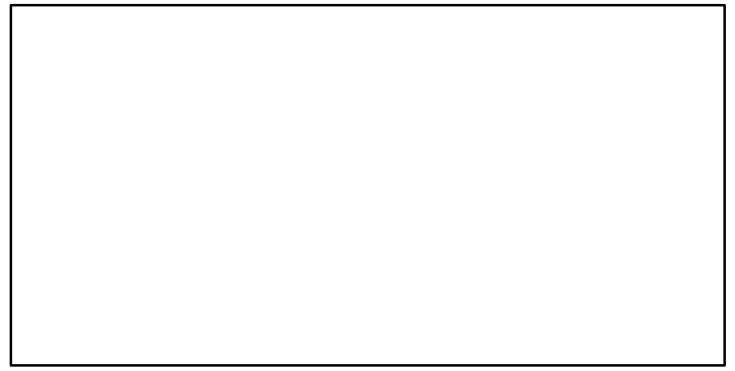
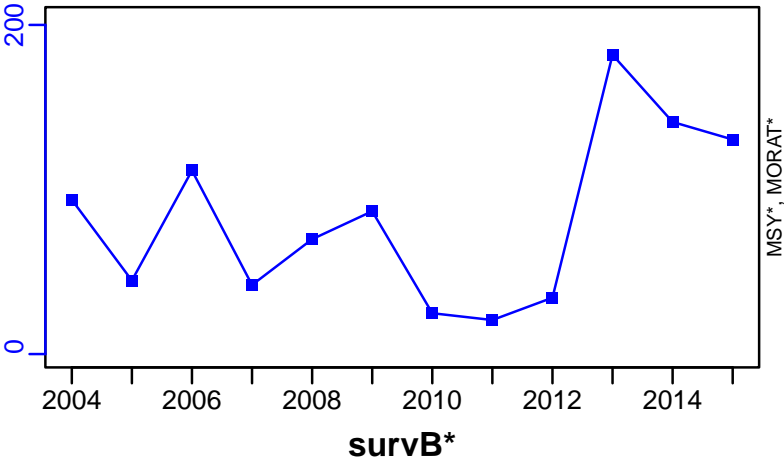
— Rec-Est

\* No Data

# Yellowstripe goatfish Main Hawaiian Islands [YSGTFMHI]

TC-MT, TL\*, RecC\* (2004–2015–SISIMP2021)

TAC\*, Cpair\*, Cadv\*





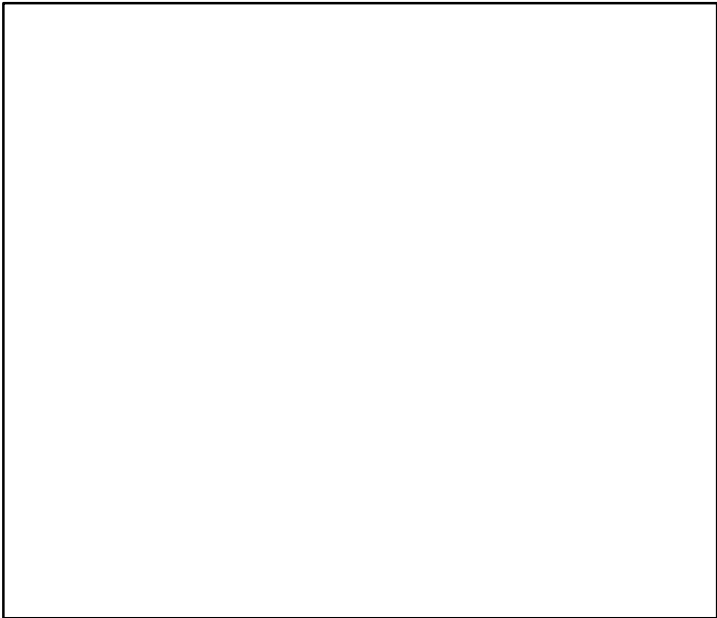
## Yellowtail snapper Southern Atlantic coast and Gulf of Mexico [YTSNAPSATLCGM]

Metadata	
<b>Scientific Name</b>	Ocyurus chrysurus
<b>Current Assess ID</b>	SEFSC-YTSNAPSATLCGM-1950-2011-HIVELY
<b>Area</b>	Southern Atlantic coast and Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-pr-1/yr	2011	0.29
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2011	1700
M	M-1/yr	2011	0.19
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	26,600	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2011	0.047	-	-
ER	ER-calc-ratio	2011	0.029	-	-
TC	-	-	-		
TL	TL-MT	2011	858		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2011	0.162		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

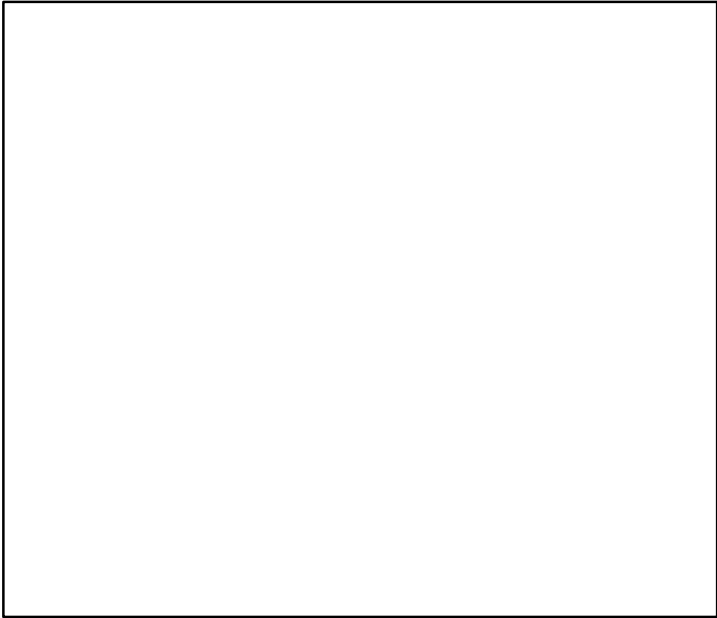
Kobe MSY\*



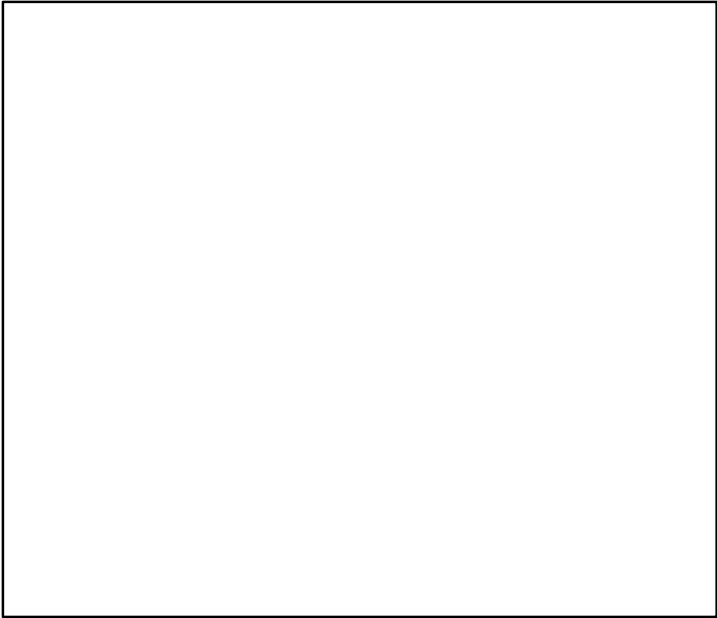
Kobe MGT\*



Spawner Recruit\*



Production\*

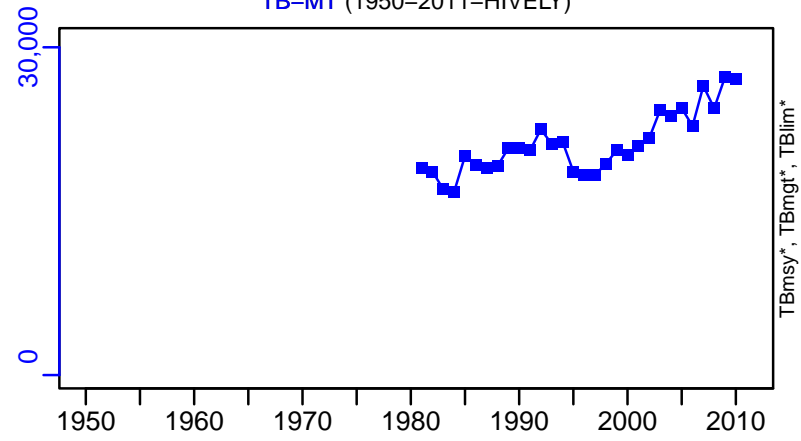


◆ Start Year ◆ End Year \* No Data

# Yellowtail snapper Southern Atlantic coast and Gulf of Mexico [YTSNAPSATLCGM]

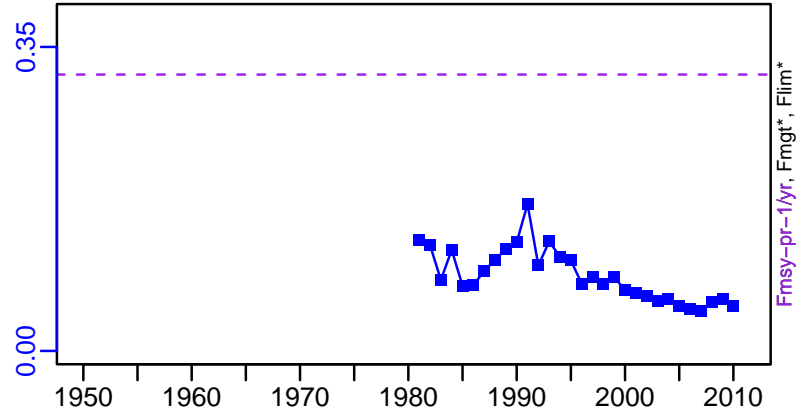
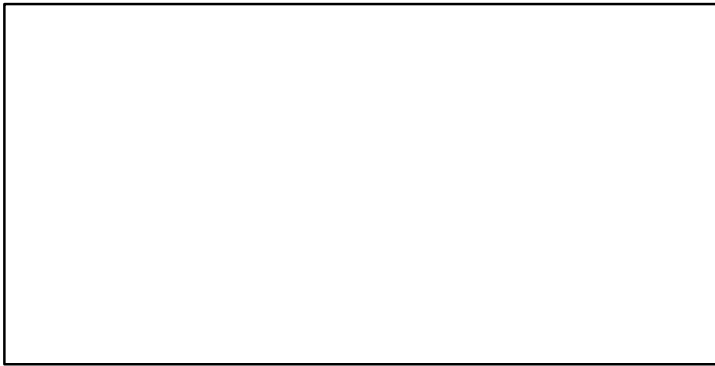
TB-MT (1950–2011–HIVELY)

SSB\*



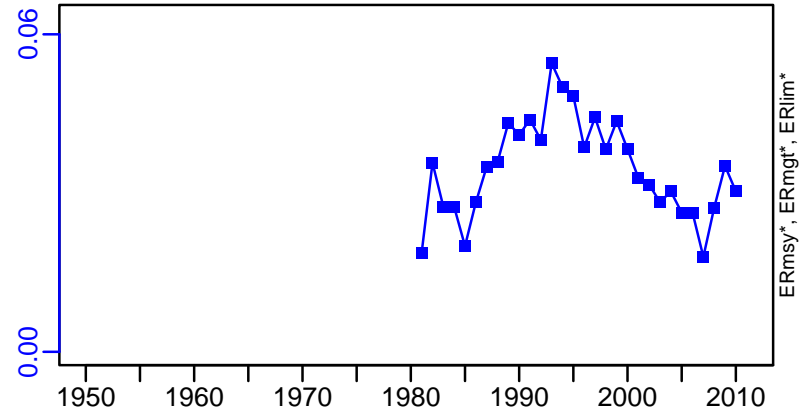
TN \*

F-1/yr (1950–2011–HIVELY)



ER-calc-ratio (1950–2011–HIVELY)

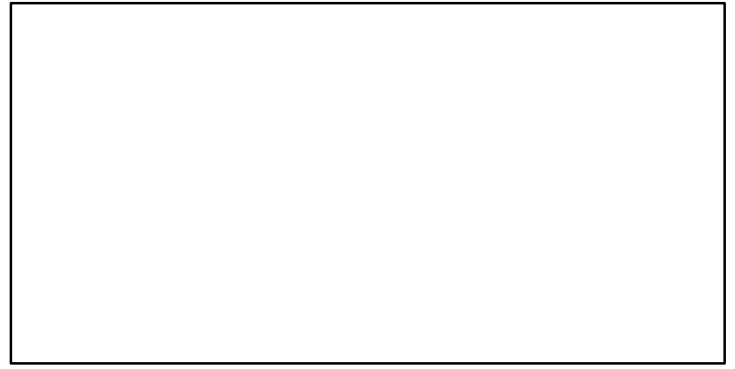
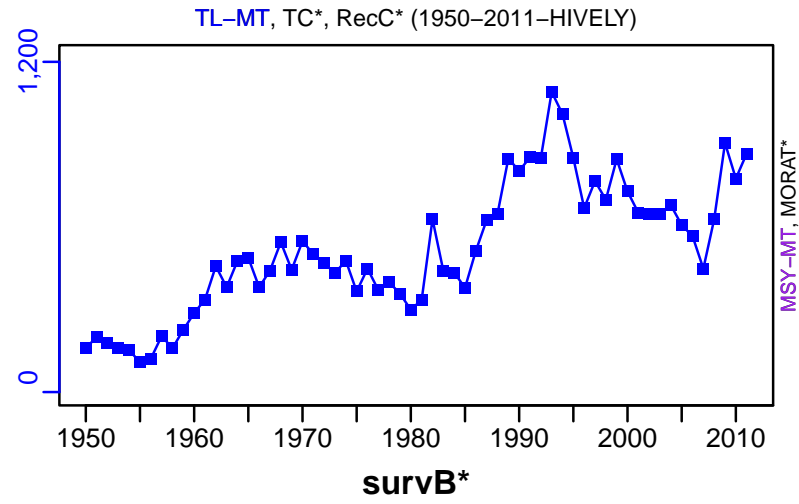
Recruits\*



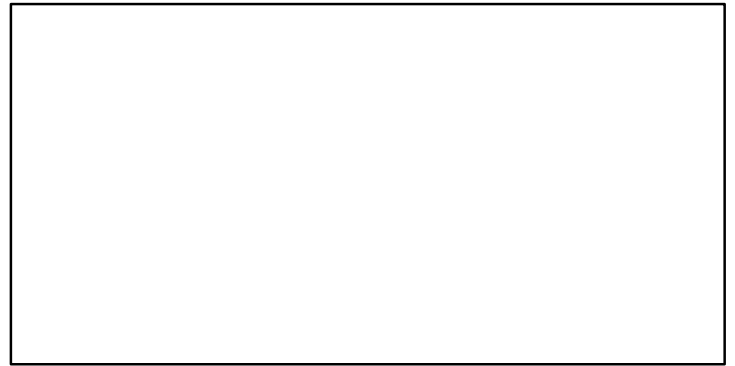
# Yellowtail snapper Southern Atlantic coast and Gulf of Mexico [YTSNAPSATLCGM]

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

TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



TL-MT/MSY-MT, CdivMEANC-ratio, (1950–2011–HIVELY)

