

other marine percoidids Stocks

v4.63 (Dec-07-2023)

Not present Present Preferred

Stock	Time Series Types			
	B/Bmsy	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. BLACKGROUPEGMSATL [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-VIIabcefgijk-VIII-IXa [Striped red mullet ICES 6-7abcefgijk-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. TARAKNZ [Tarakihi Sub-Antarctic]	TB SSB	ER F	TB SSB	ER F
102. THREADCWACIV-BEN [Threadfin Central West Africa Cote Divoire-Benin]	TB SSB	ER F	TB SSB	ER F
103. THREADCWAGAB-AGO [Threadfin Central West Africa Gabon-Angola]	TB SSB	ER F	TB SSB	ER F
104. THREADCWAGIN-LBR [Threadfin Central West Africa Guinea-Liberia]	TB SSB	ER F	TB SSB	ER F
105. TILEGM [Tilefish Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
106. TILEMATLC [Tilefish Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F

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

Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

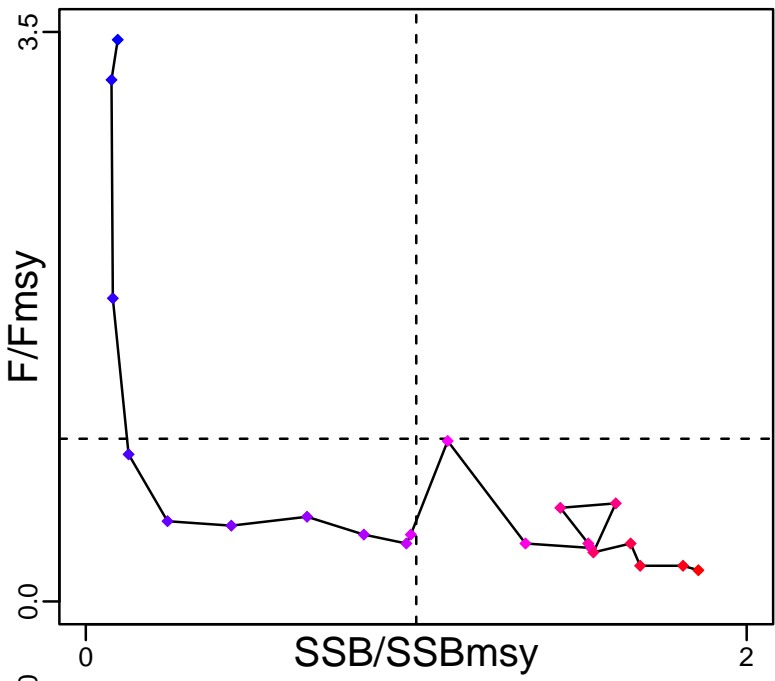
Metadata	
Scientific Name	Micropogonias undulatus
Current Assess ID	ASMFC-ATLCROAKMATLC-1981-2008-HIVELY
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2002, 2008

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

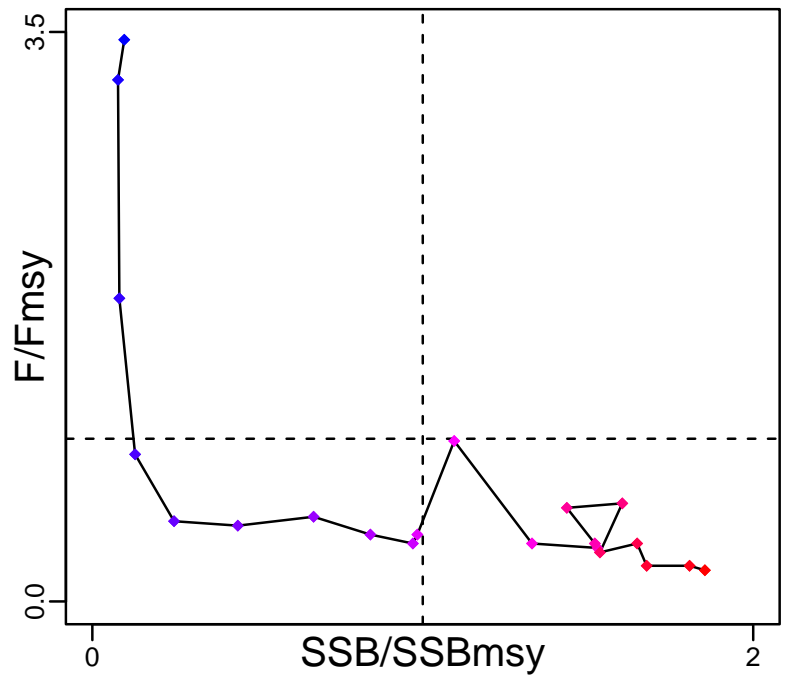
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2008	134,143	Females	-
TN	-	-	-	-	-
R	R-E00	2008	643,964,000	-	0
F	F-1/yr	2008	0.07	-	-
ER	ER-ratio	2002	0.088	-	-
TC	-	-	-	-	-
TL	TL-MT	2008	12,647	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	1.854	-	-
F/Fmsy	F-1/yr/Fmsy-1/yr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

Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

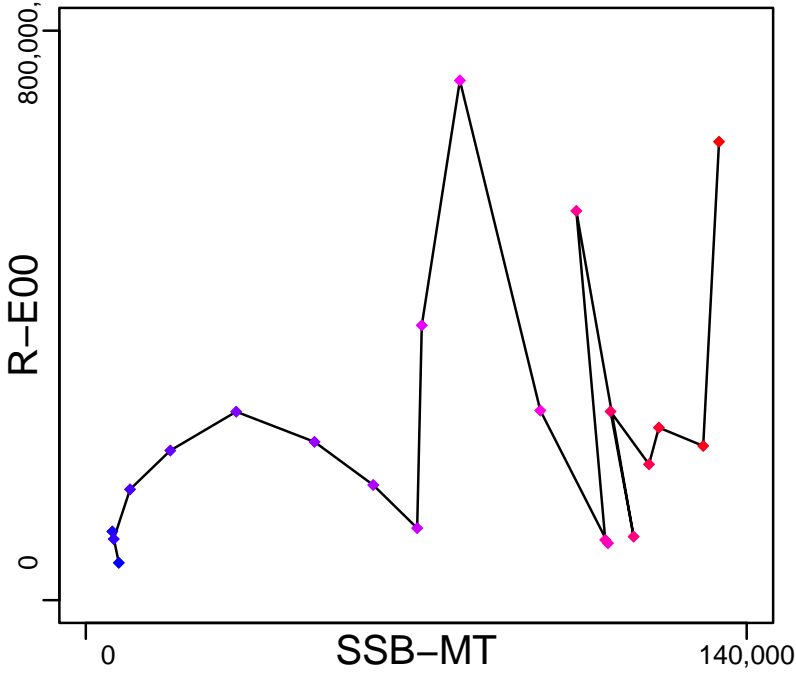
Kobe MSYpref (1981-2008-HIVELY)



Kobe MGTpref (1981-2008-HIVELY)



Spawner Recruit (1981-2008-HIVELY)



Production*



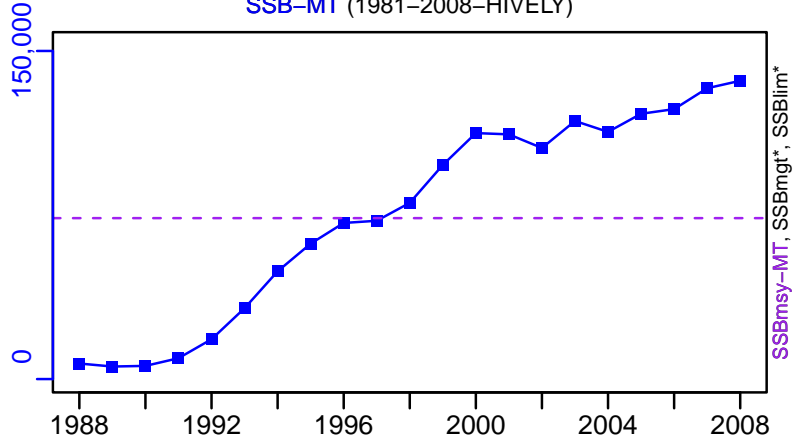
◆ Start Year ◆ End Year * No Data

Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

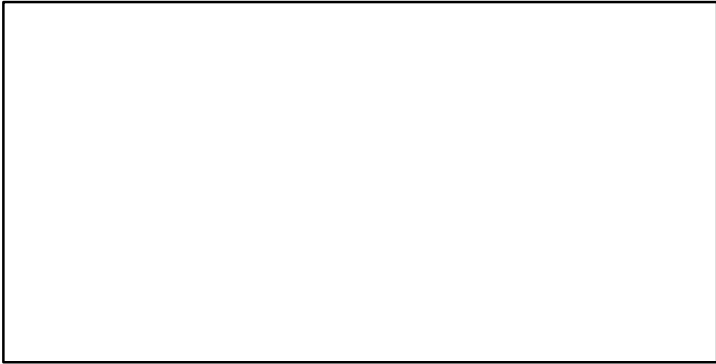
TB*



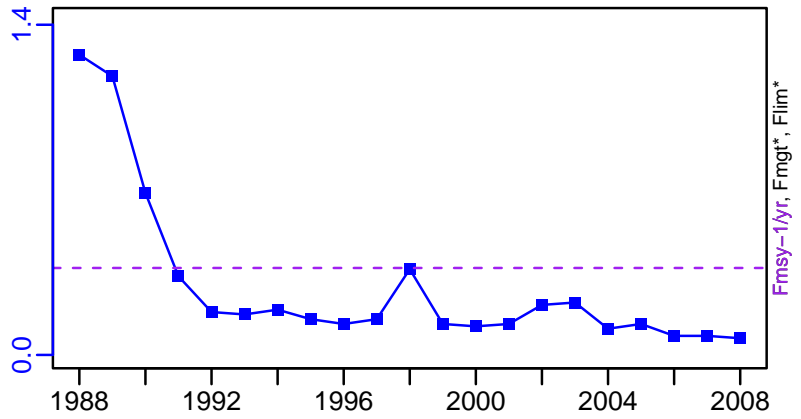
SSB-MT (1981-2008-HIVELY)



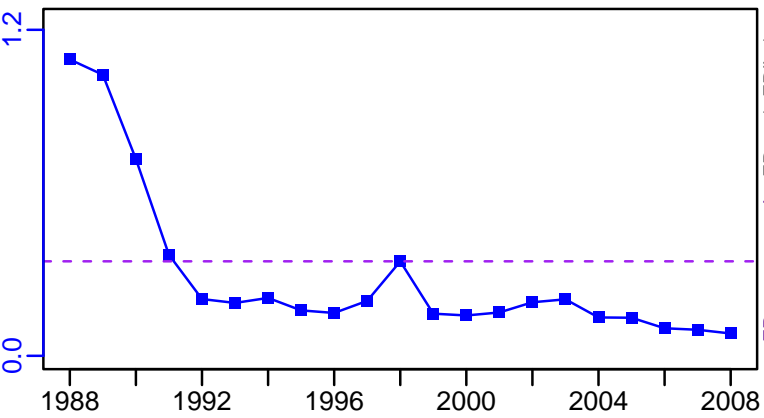
TN *



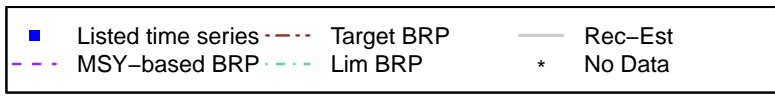
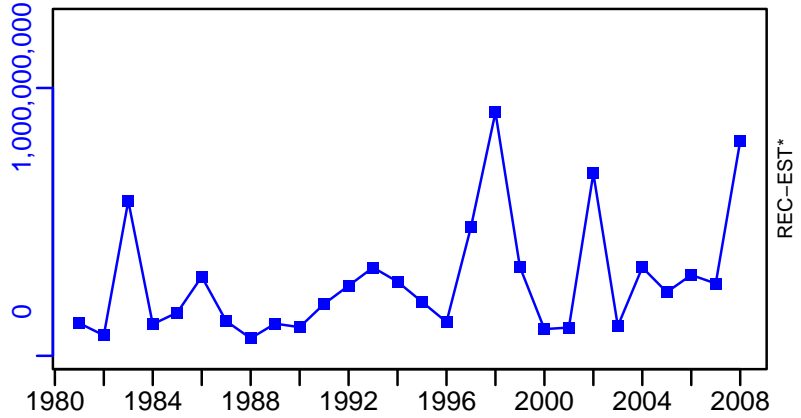
F-1/yr (1981-2008-HIVELY)



ER-calc-ratio (1981-2008-HIVELY)



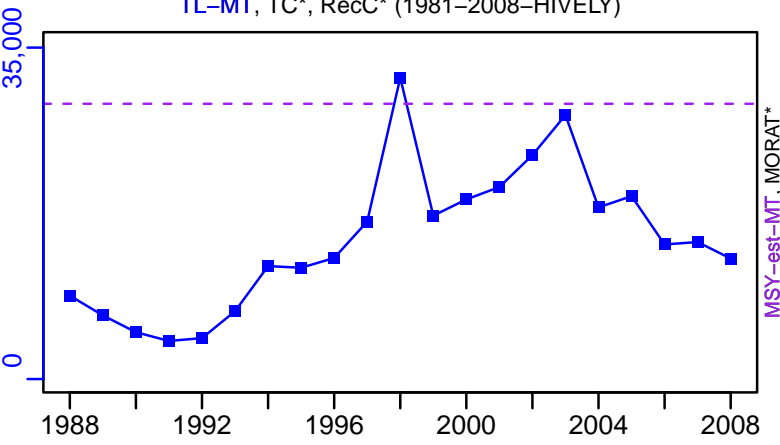
R-E00 (1981-2008-HIVELY)



Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

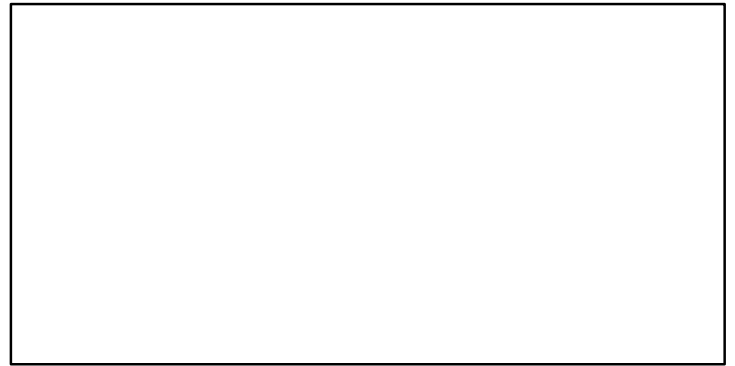
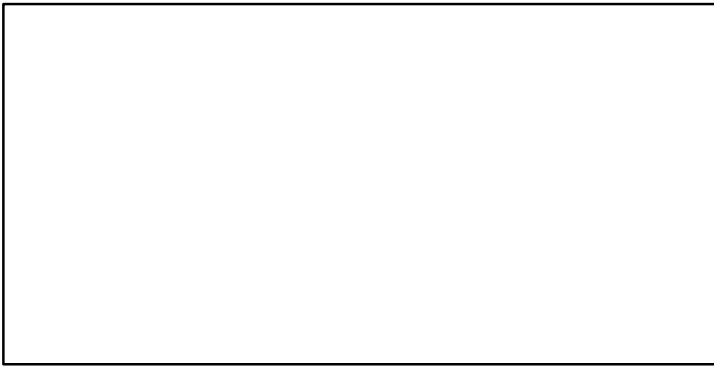
TL-MT, TC*, RecC* (1981-2008-HIVELY)

TAC*, Cpair*, Cadv*



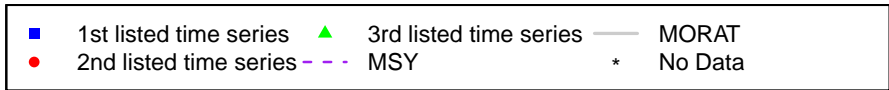
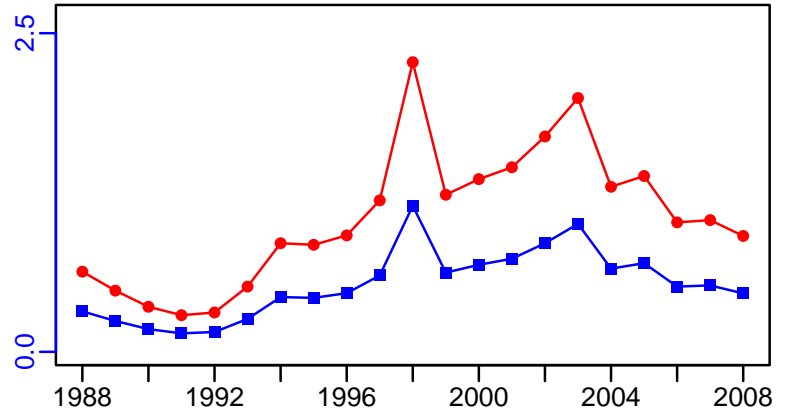
survB*

CPUE*



EFFORT*

TL-MT/MSY-est-MT, CdivMEANC-ratio, (1981-2008-HIVELY)



Australian salmon New Zealand [AUSSALMONNZ]

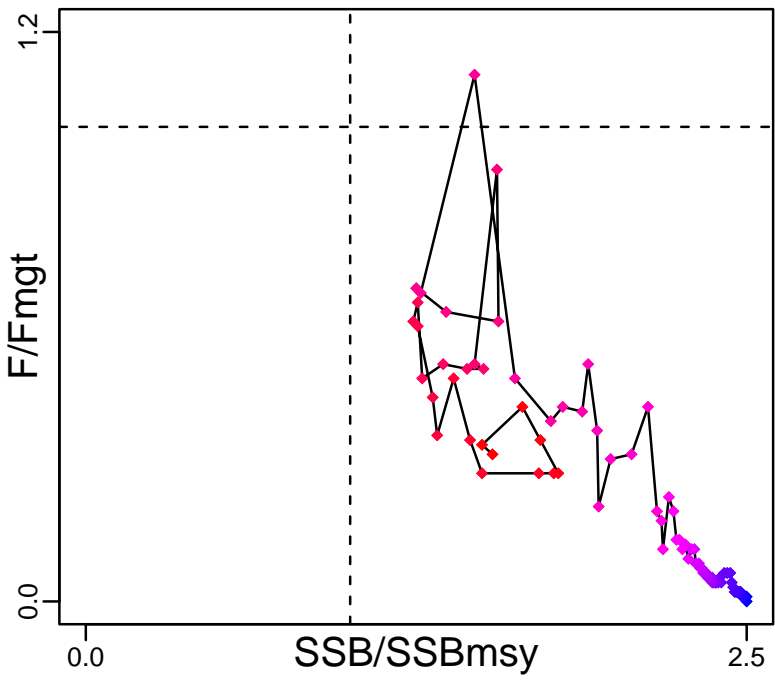
Metadata	
Scientific Name	Arripis trutta
Current Assess ID	NIWA-AUSSALMONNZ-1929-2013-FU
Area	New Zealand
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in RAM	2013, 2006

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

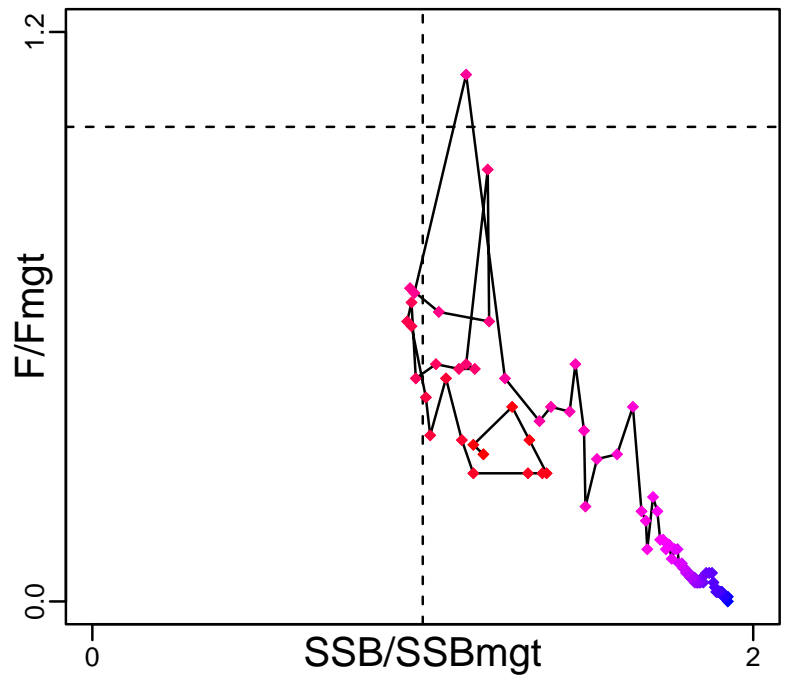
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2006	22,600	-	1+
SSB	SSB-MT	2013	27,200	-	4 to 20
TN	-	-	-	-	-
R	R-E00	2013	7,430,000	Both	-
F	F-1/yr	2013	0.07	Both	-
ER	ER-ratio	2006	0.099	-	-
TC	TC-MT	2013	1680		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2006	0.8		
SSB/SSBmsy	SSB-MT/SSBmsy-MT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

Australian salmon New Zealand [AUSSALMONNZ]

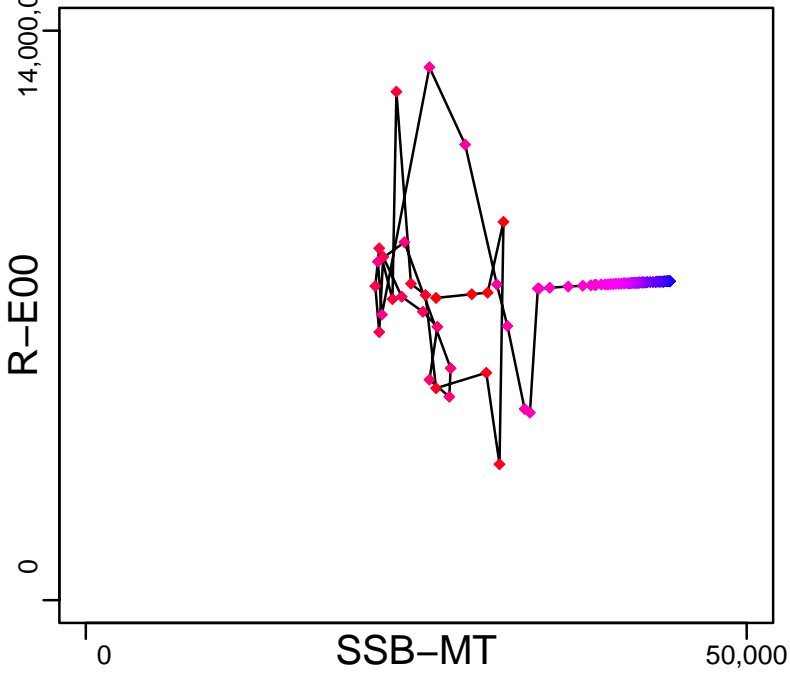
Kobe MSYpref (1929–2013–FU)



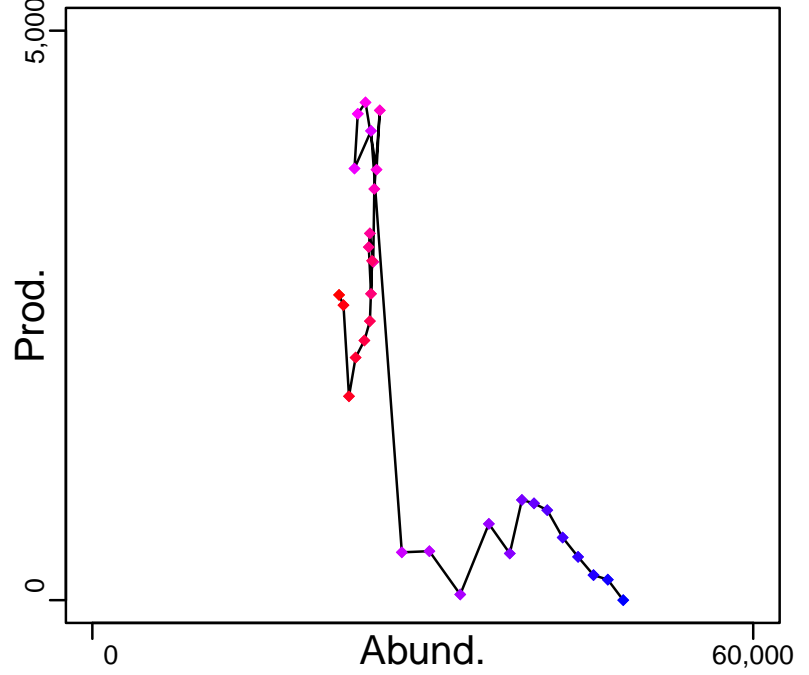
Kobe MGTpref (1929–2013–FU)



Spawner Recruit (1929–2013–FU)



Production (1929–2013–FU)

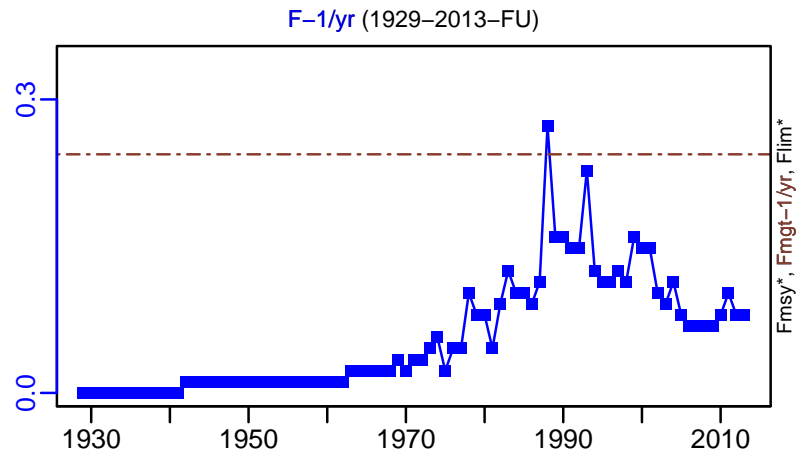
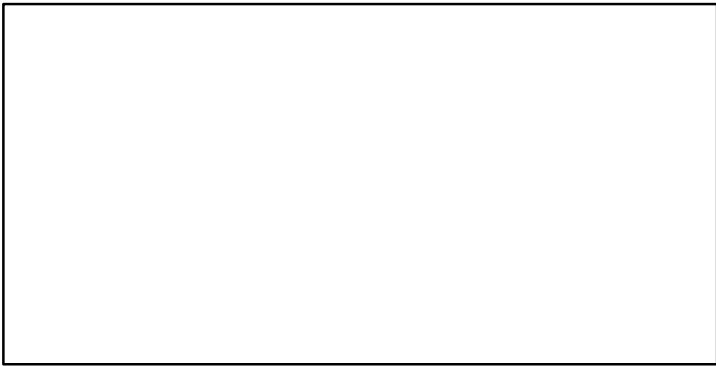
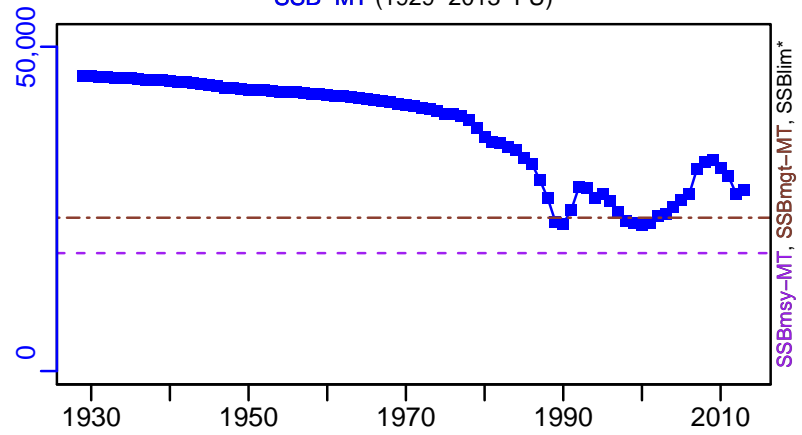
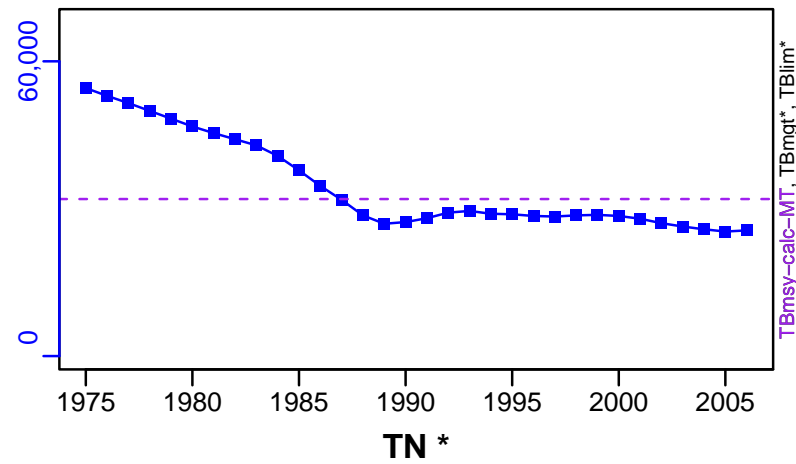


◆ Start Year ◆ End Year * No Data

Australian salmon New Zealand [AUSSALMONNZ]

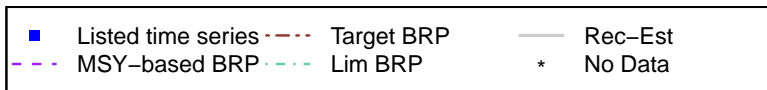
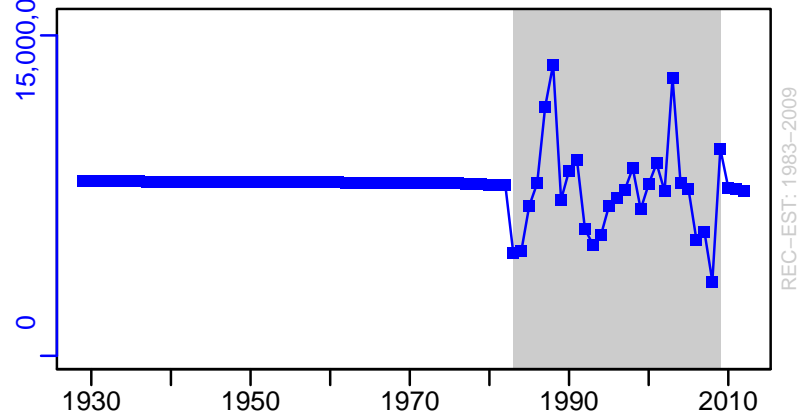
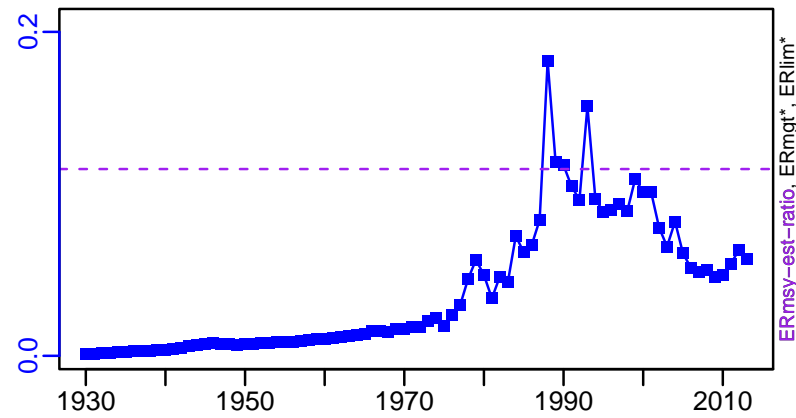
TB-MT (1975-2006-JENSEN)

SSB-MT (1929-2013-FU)



ER-calc-ratio (1929-2013-FU)

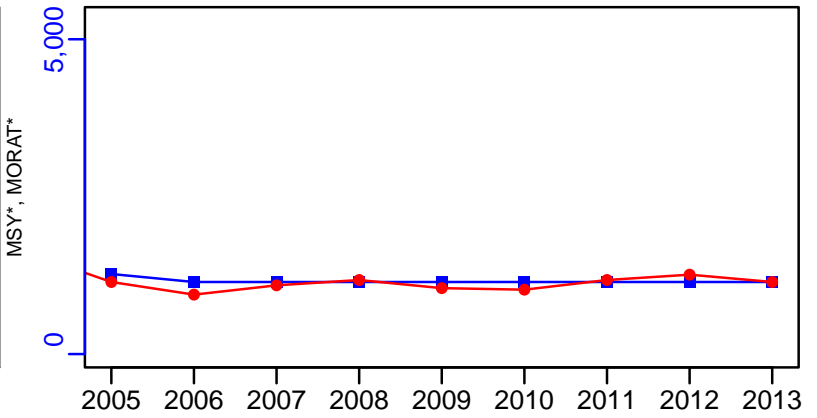
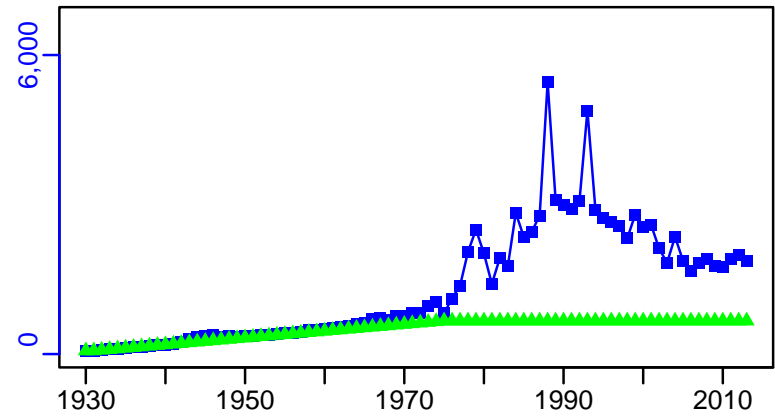
R-E00 (1929-2013-FU)



Australian salmon New Zealand [AUSSALMONNZ]

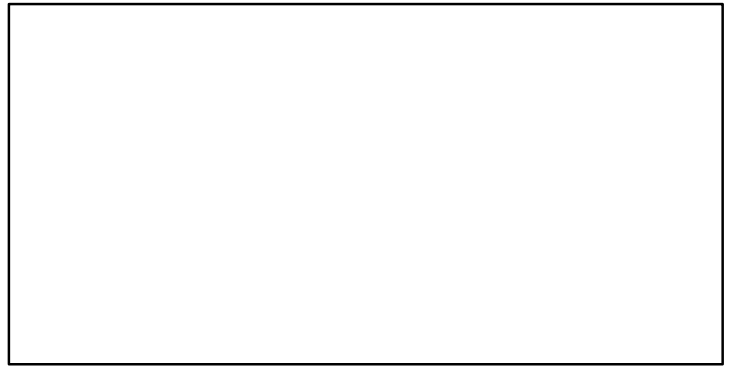
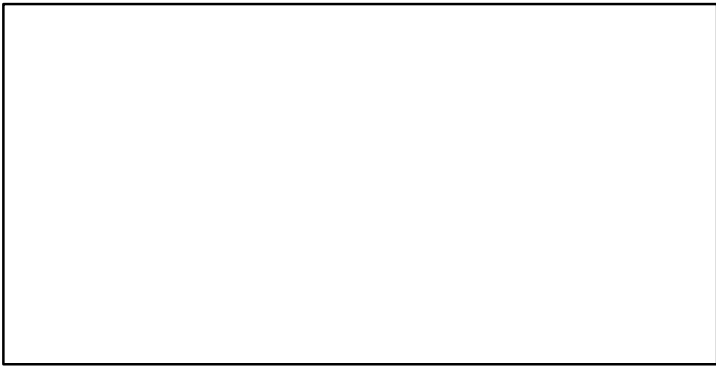
TC-MT, TL*, RecC-MT (1929-2013-FU)

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



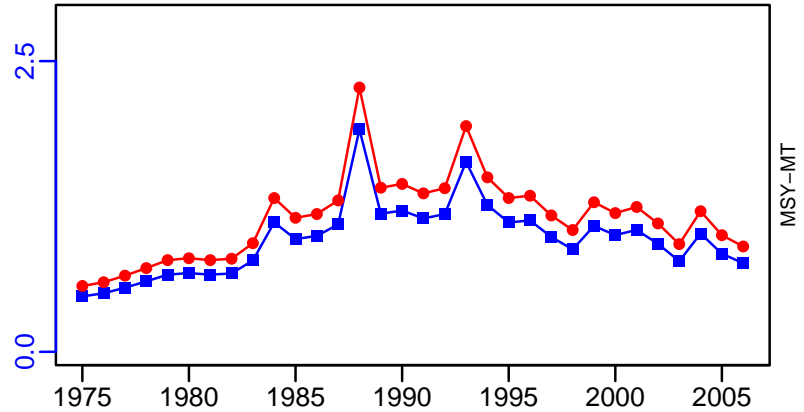
survB*

CPUE*



EFFORT*

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



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

Axillary seabream North West Africa [AXBRMNA]

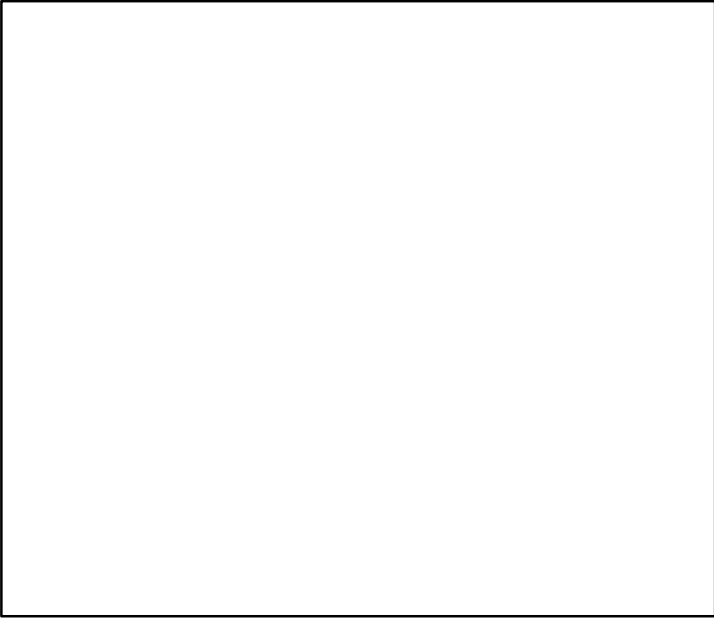
Metadata	
Scientific Name	Pagellus acarne
Current Assess ID	FAO-DR-AXBRMNA-1990-2016-ASHBROOK
Area	North West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2016

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

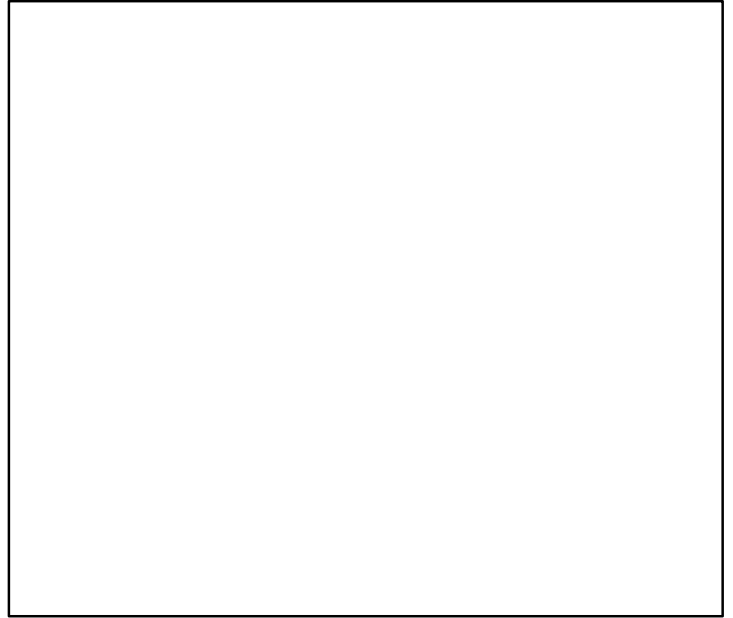
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	1598		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Axillary seabream North West Africa [AXBRMNA]

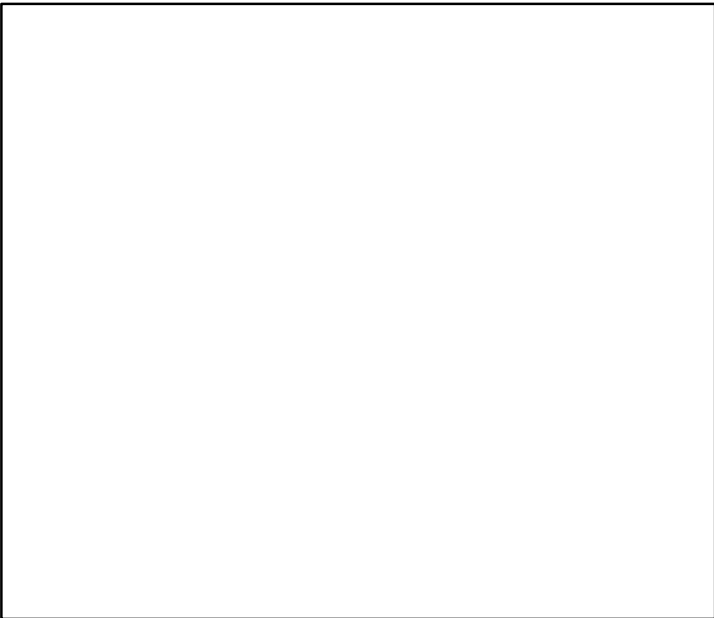
Kobe MSY*



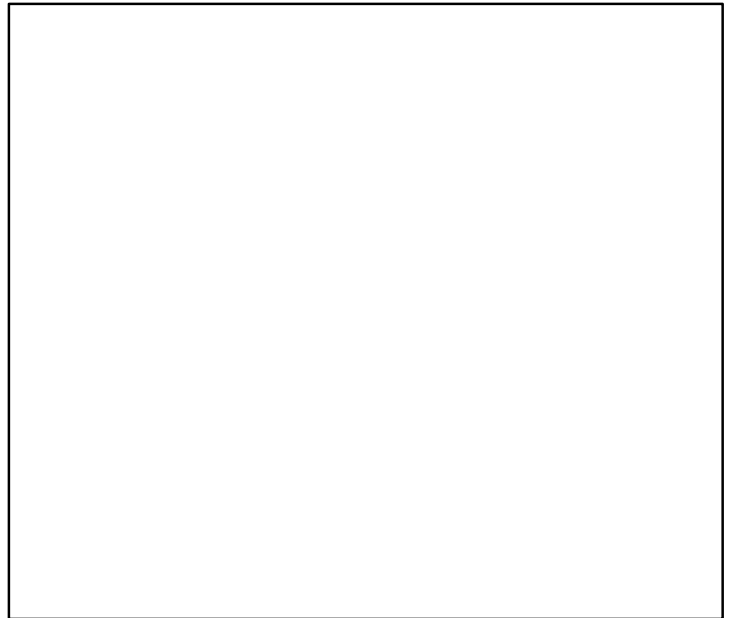
Kobe MGT*



Spawner Recruit*



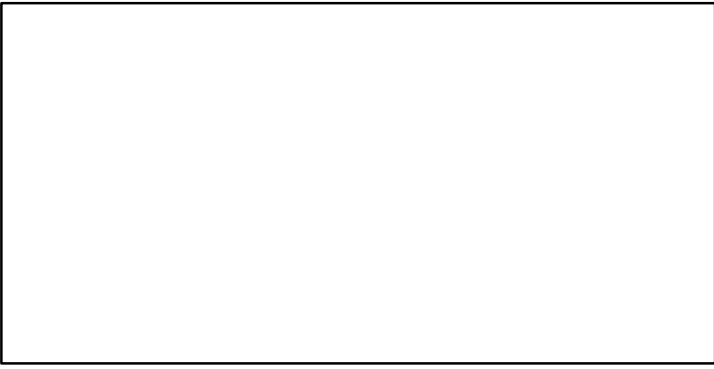
Production*



◆ Start Year ◆ End Year * No Data

Axillary seabream North West Africa [AXBRMNA]

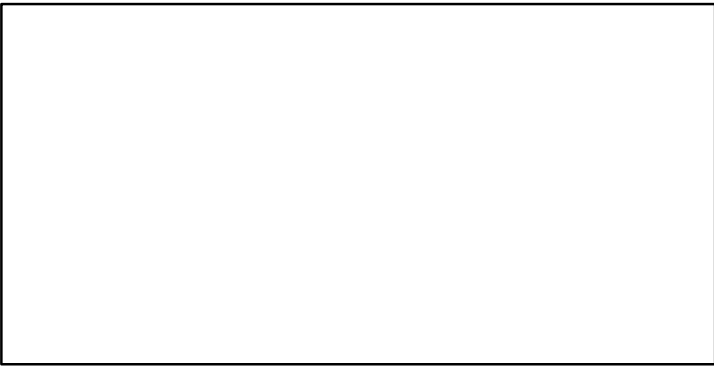
TB*



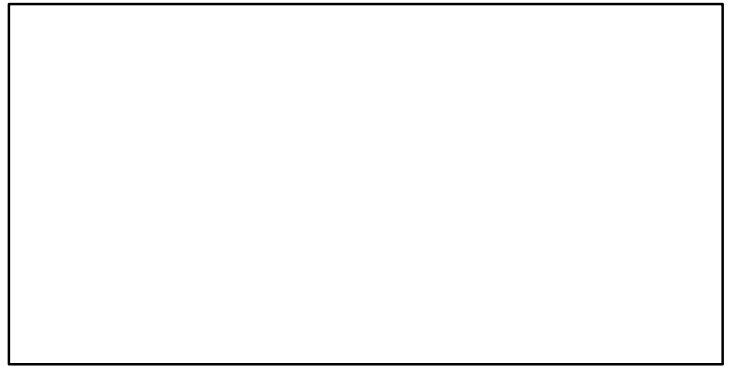
SSB*



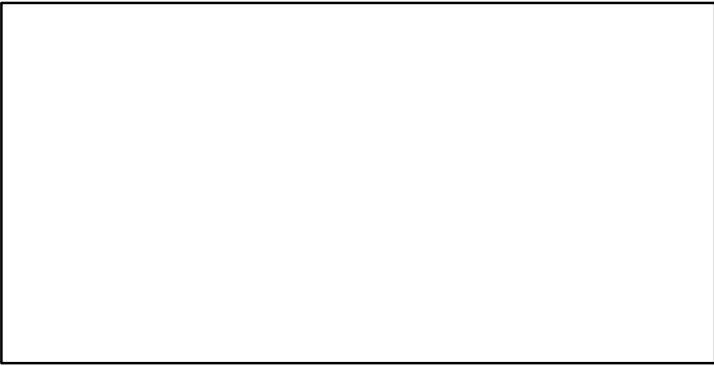
TN *



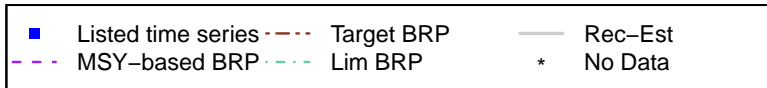
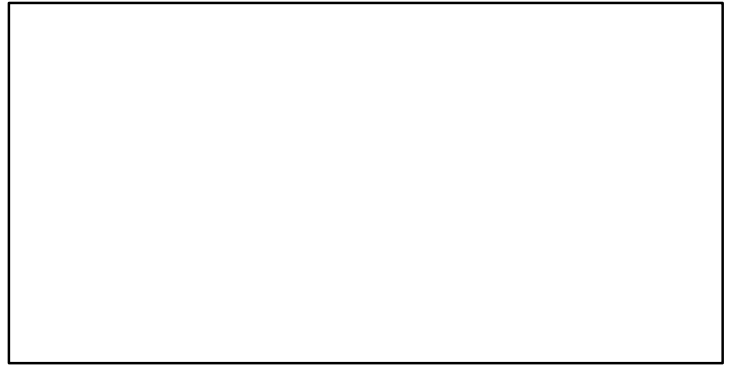
F*



ER*



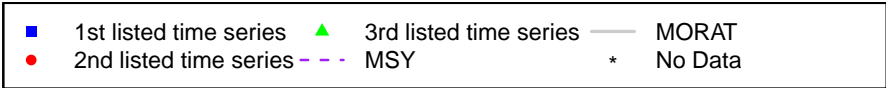
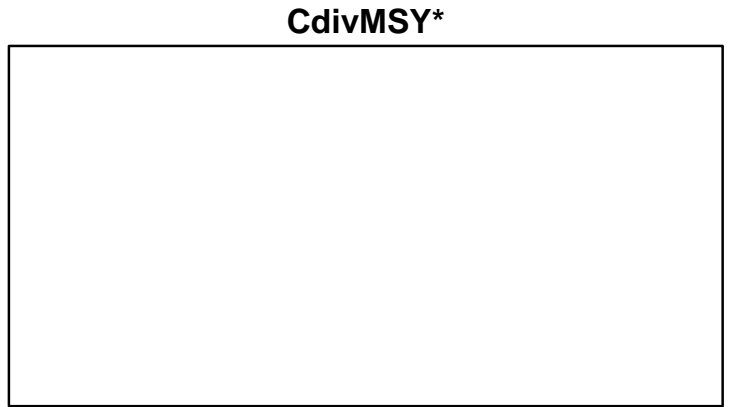
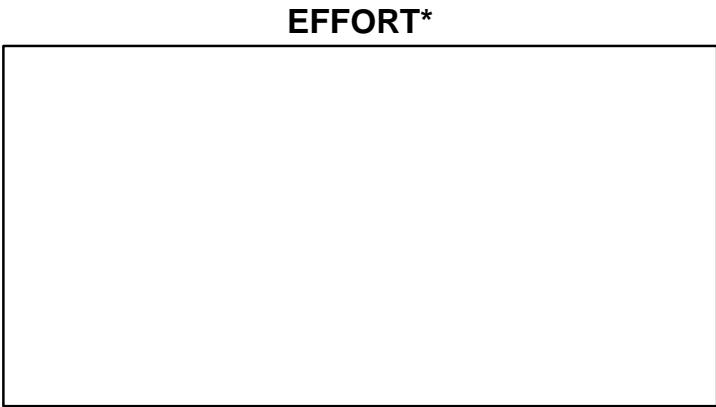
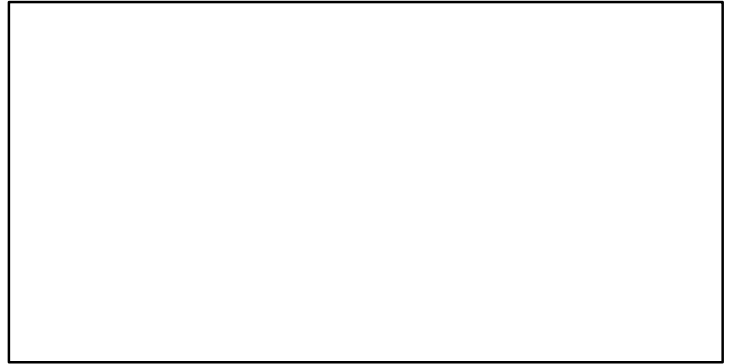
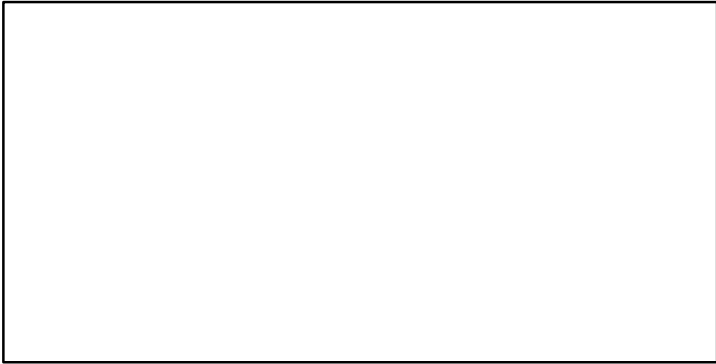
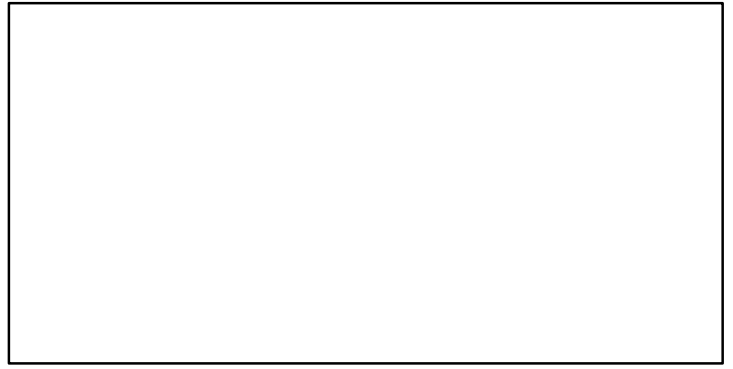
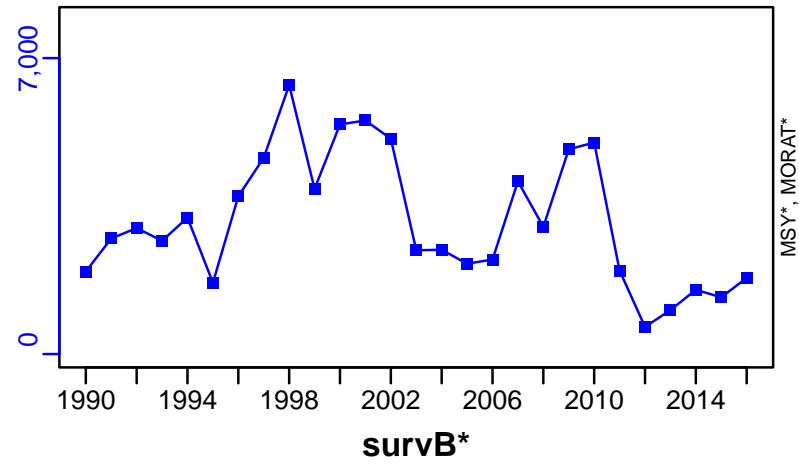
Recruits*



Axillary seabream North West Africa [AXBRMNA]

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

TAC*, Cpair*, Cadv*



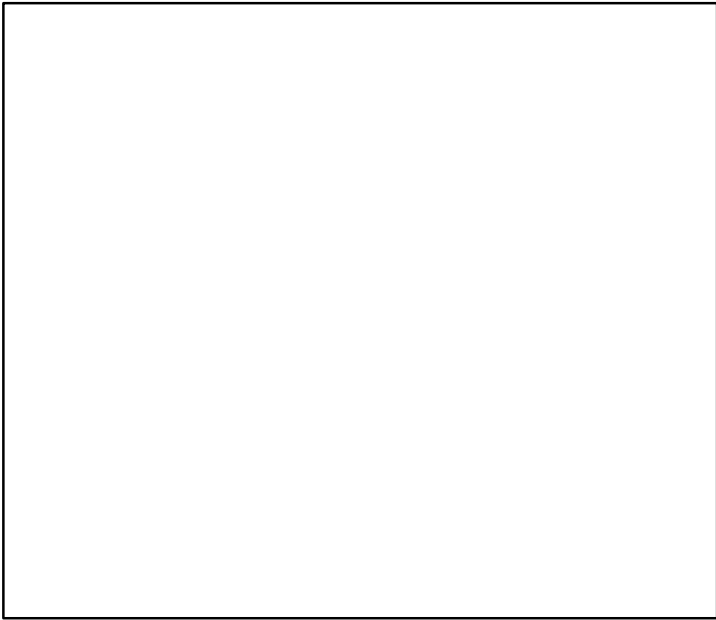
Bobo croaker Central West Africa Guinea-Liberia [BCROAKCWAGIN-LBR]

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

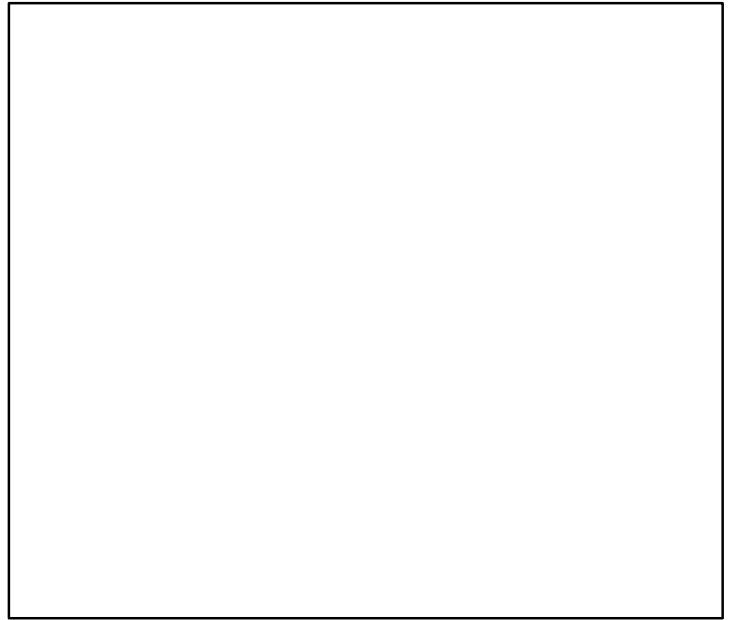
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

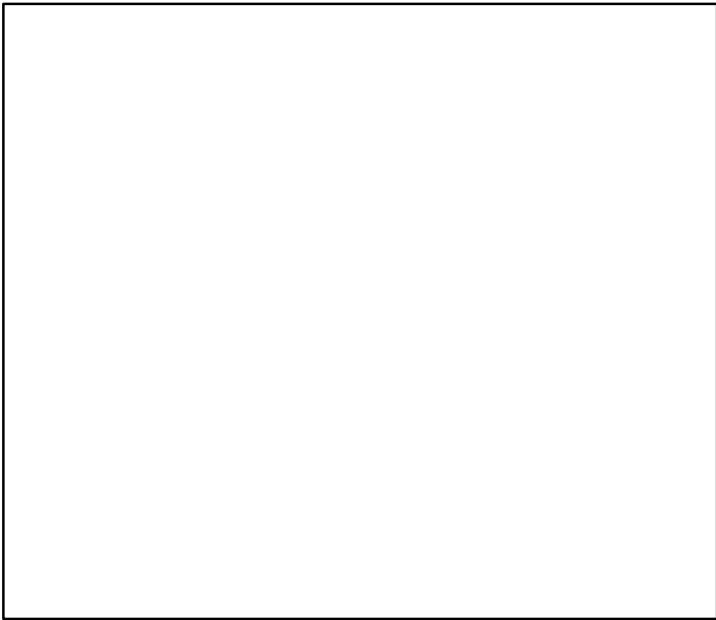
Kobe MSY*



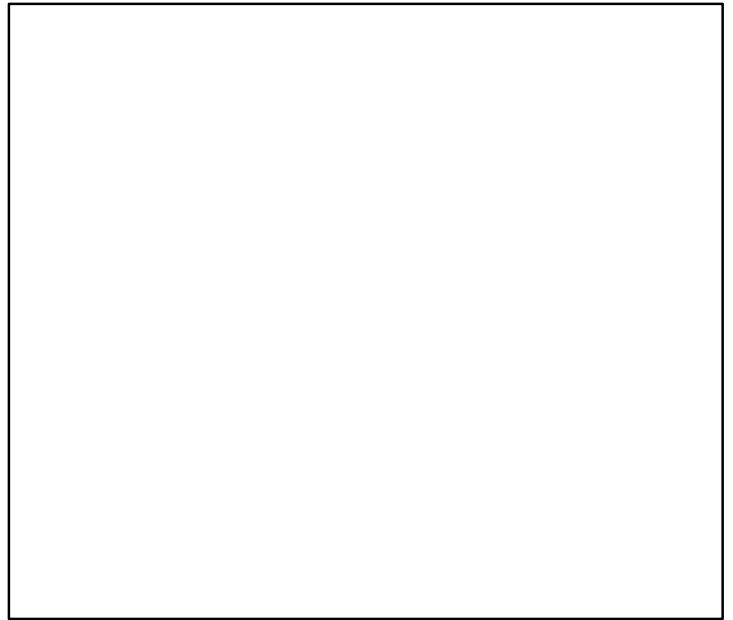
Kobe MGT*



Spawner Recruit*



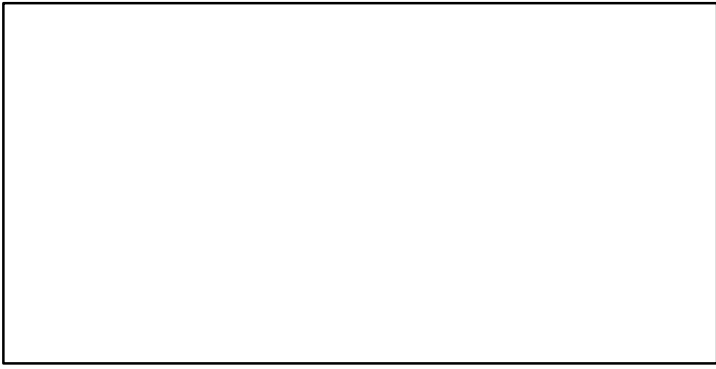
Production*



◆ Start Year ◆ End Year * No Data

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

TB*



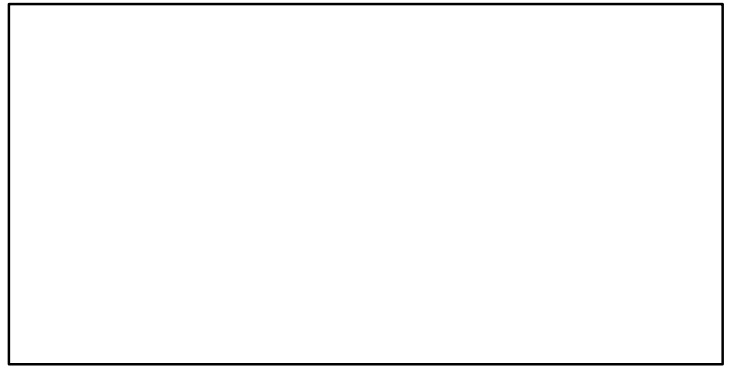
SSB*



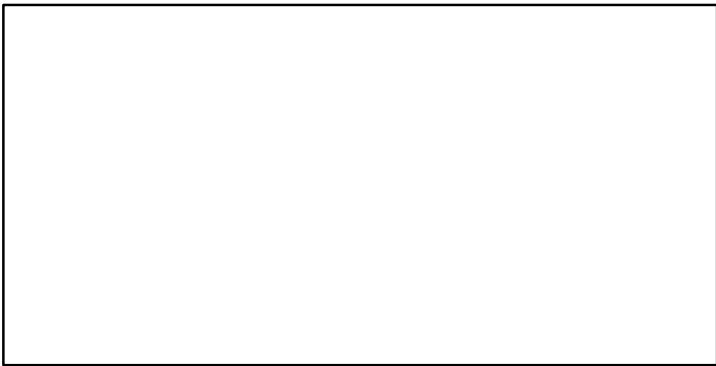
TN *



F*



ER*



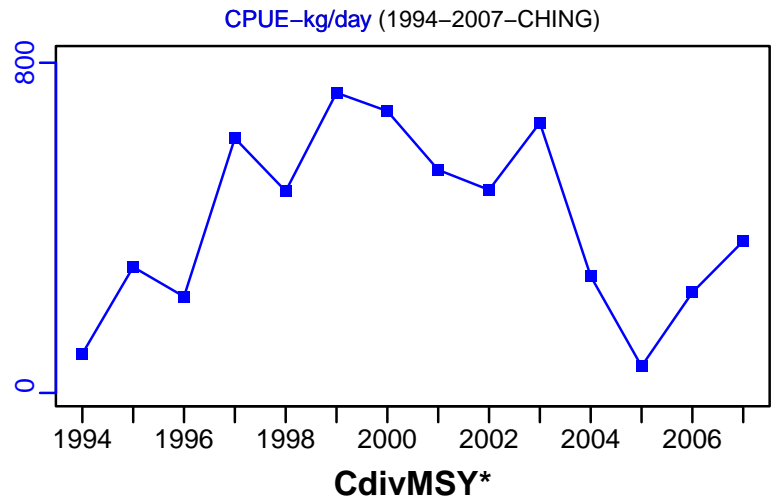
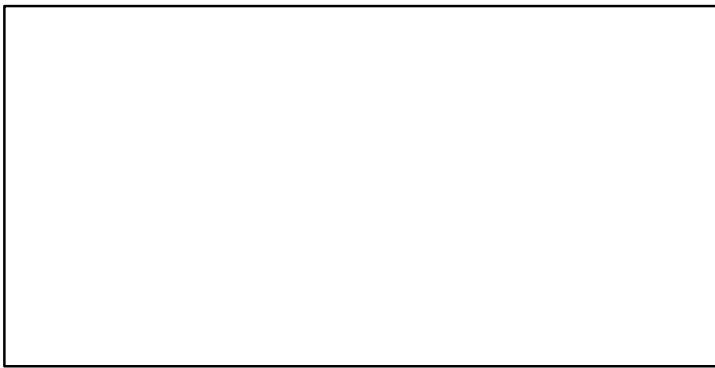
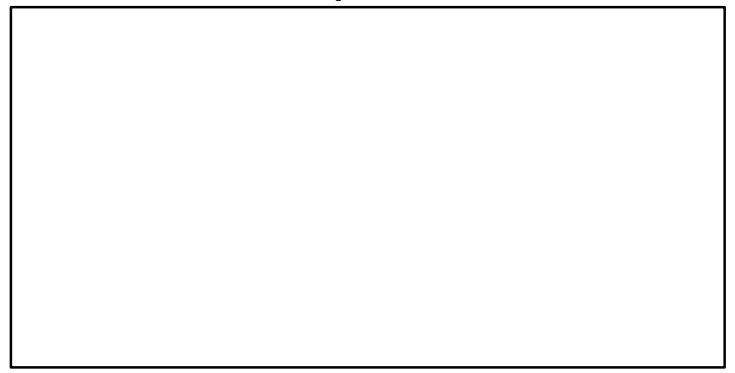
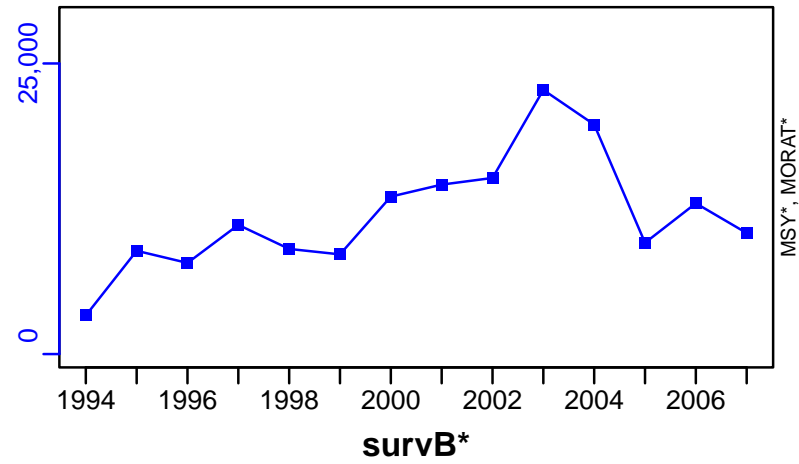
Recruits*



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

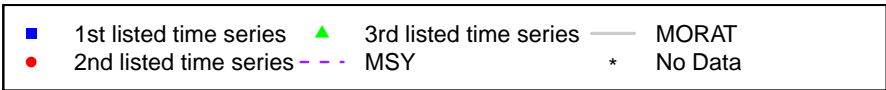
TC-MT, TL*, RecC* (1994-2007-CHING)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



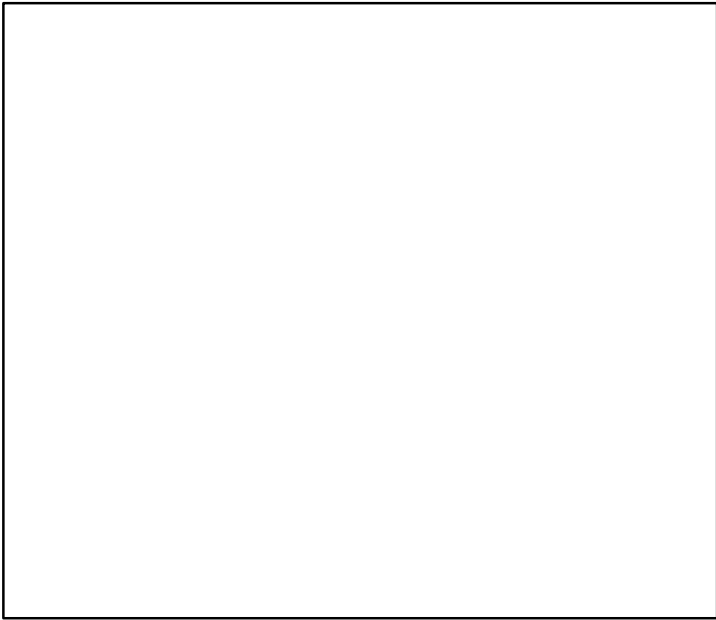
Bigeye grunt Central West Africa Cote Divoire-Benin [BGRUNTCWACIV-BEN]

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

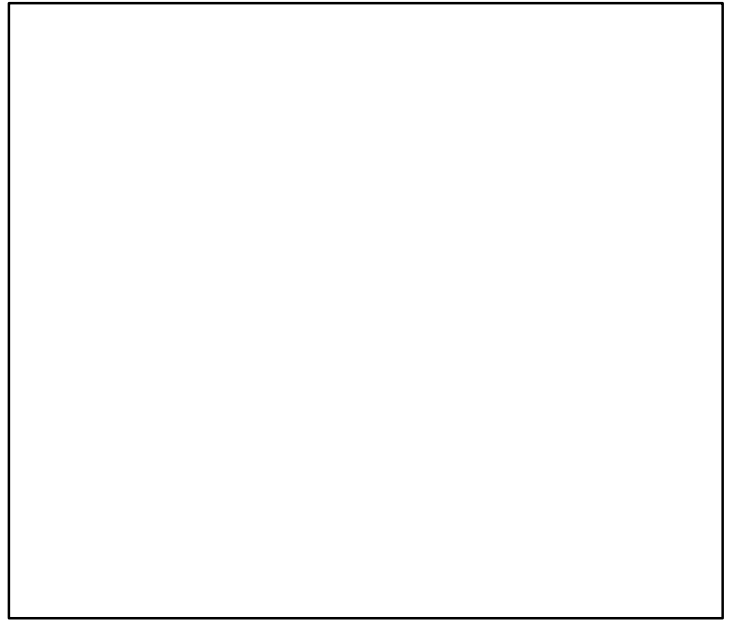
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

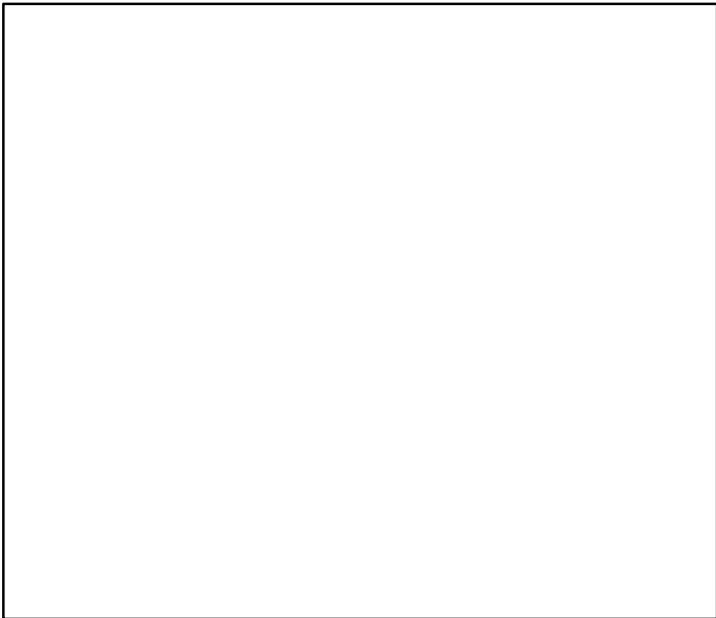
Kobe MSY*



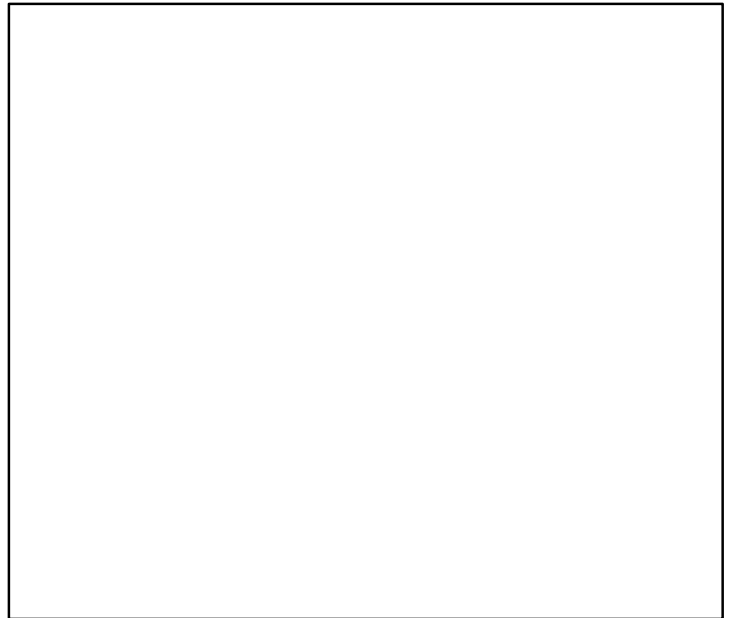
Kobe MGT*



Spawner Recruit*



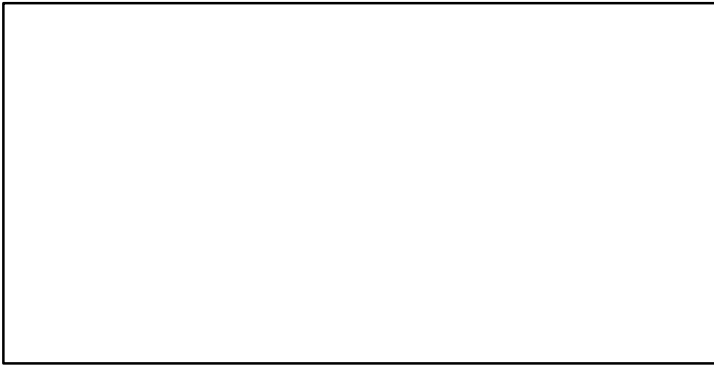
Production*



◆ Start Year ◆ End Year * No Data

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

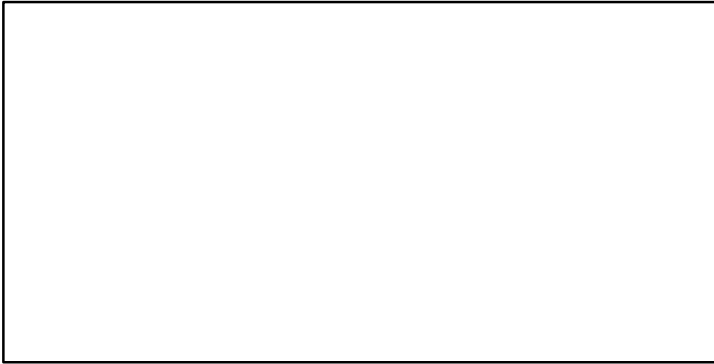
TB*



SSB*



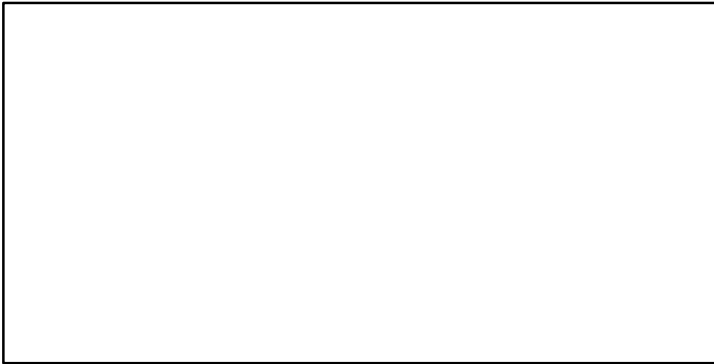
TN *



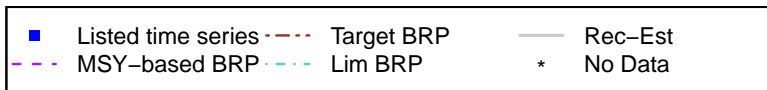
F*



ER*



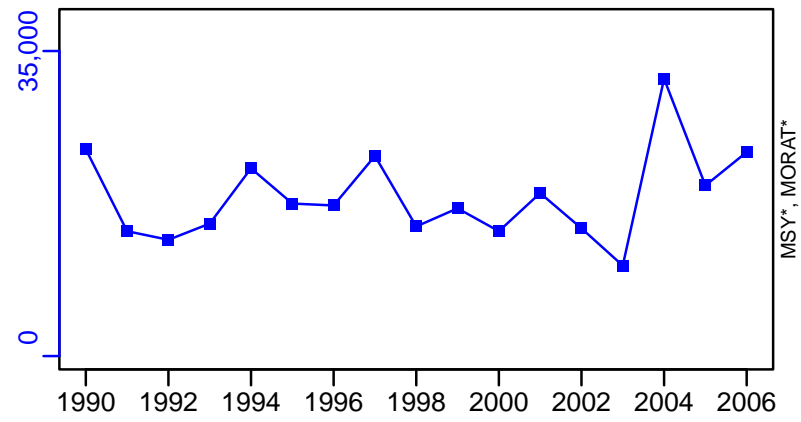
Recruits*



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

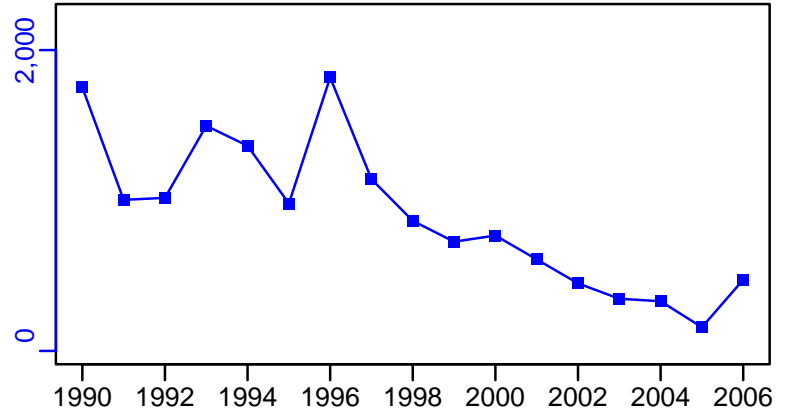
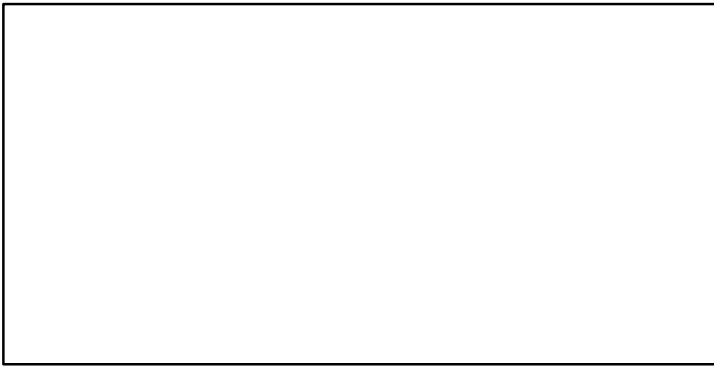
TC–MT, TL*, RecC* (1990–2006–CHING)

TAC*, Cpair*, Cadv*



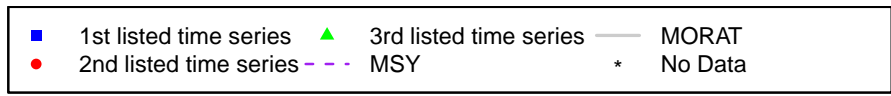
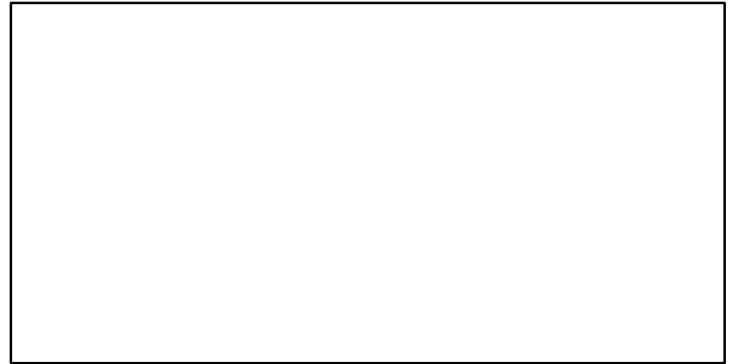
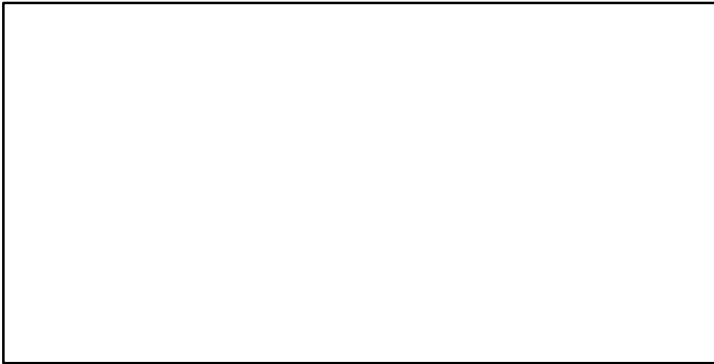
survB*

CPUE–kg/day (1990–2006–CHING)



EFFORT*

CdivMSY*



Bigeye grunt Central West Africa Congo_Angola [BGRUNTCWACOG_AGO]

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

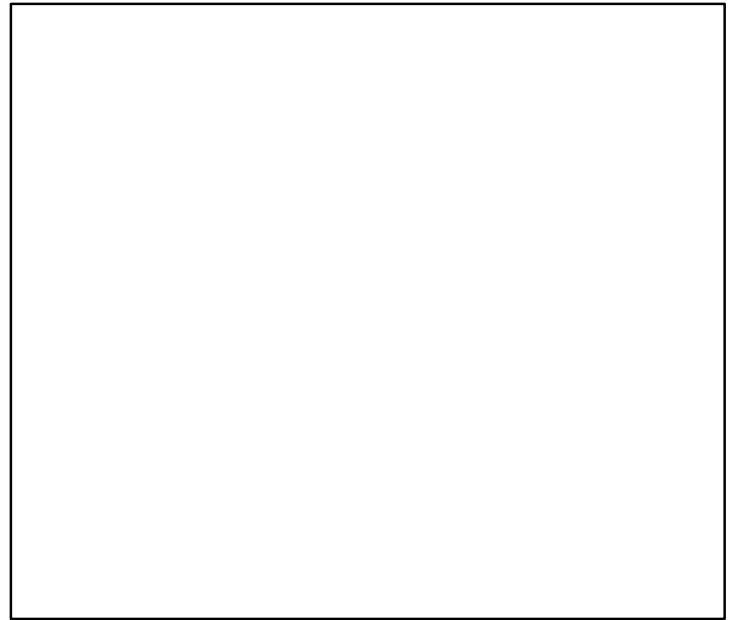
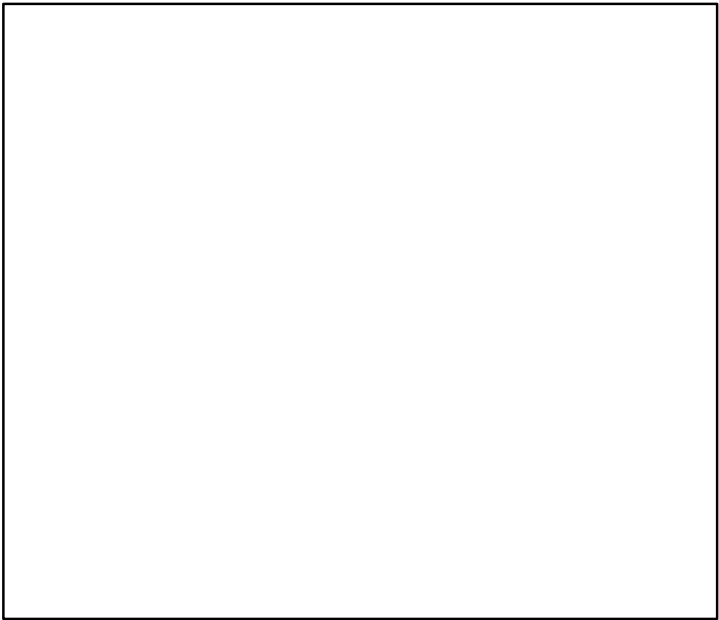
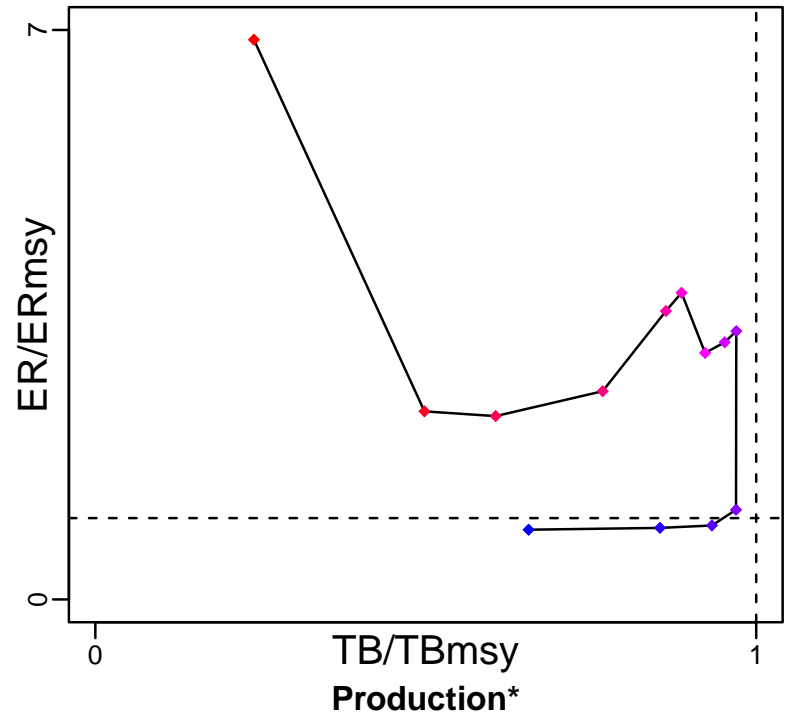
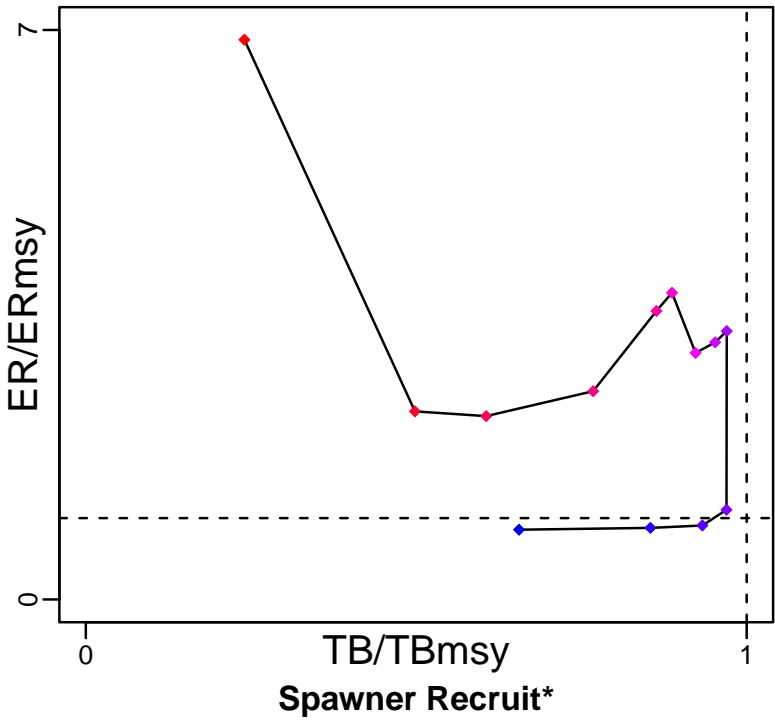
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

Bigeye grunt Central West Africa Congo_Angola [BGRUNTCWACOG_AGO]

Kobe MSYpref (1995-2007-CHING)

Kobe MGTpref (1995-2007-CHING)

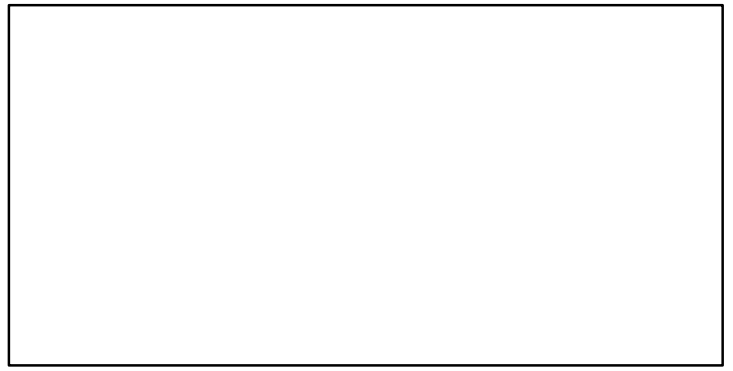
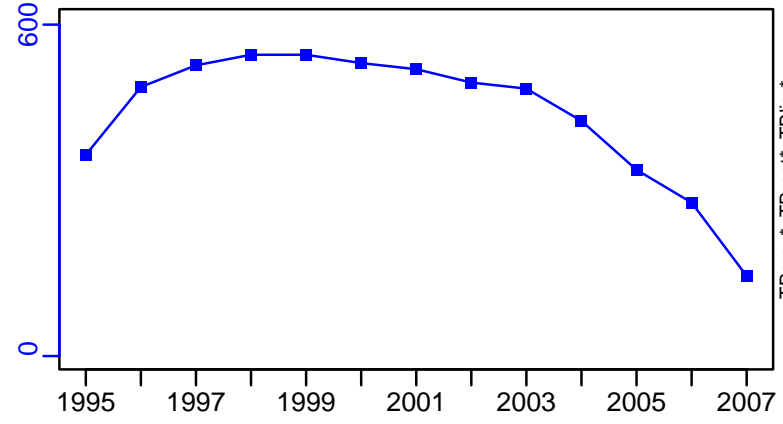


◆ Start Year ◆ End Year * No Data

Bigeye grunt Central West Africa Congo_Angola [BGRUNTCWACOG_AGO]

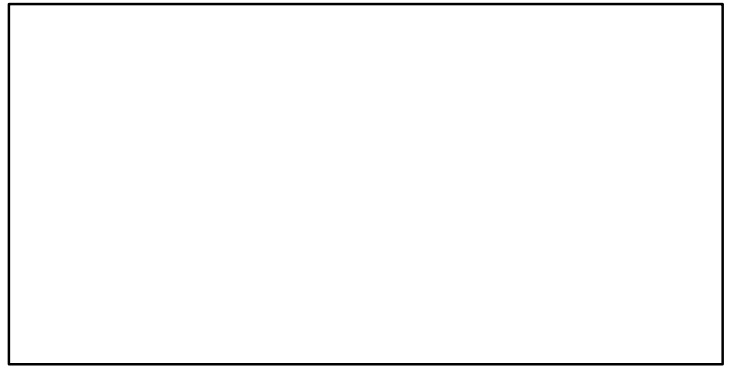
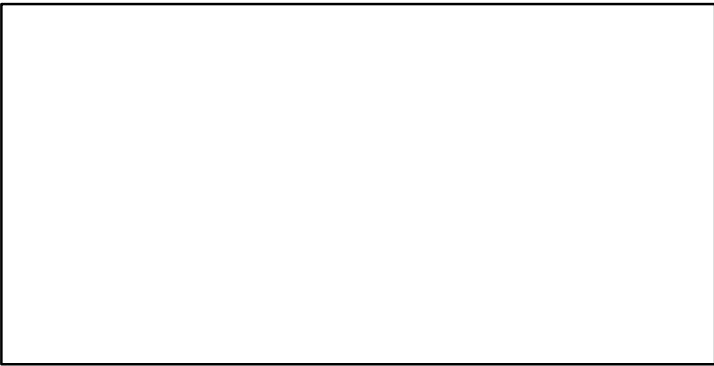
TB-index (1995-2007-CHING)

SSB*



TN *

F*



ER*

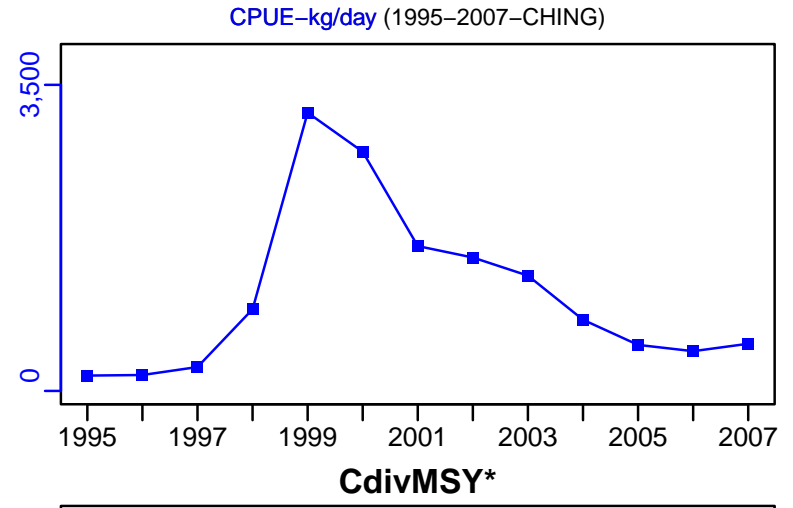
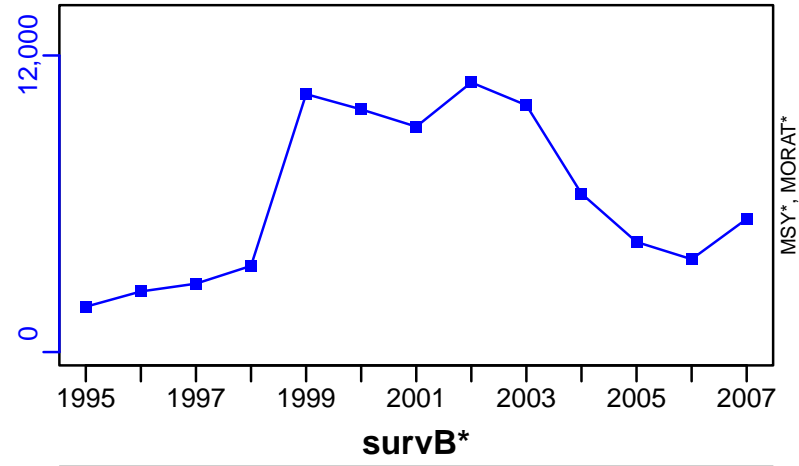
Recruits*



Bigeye grunt Central West Africa Congo_Angola [BGRUNTCWACOG_AGO]

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

TAC*, Cpair*, Cadv*



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

Black cardinalfish East coast of North Island [BKCDLFENI]

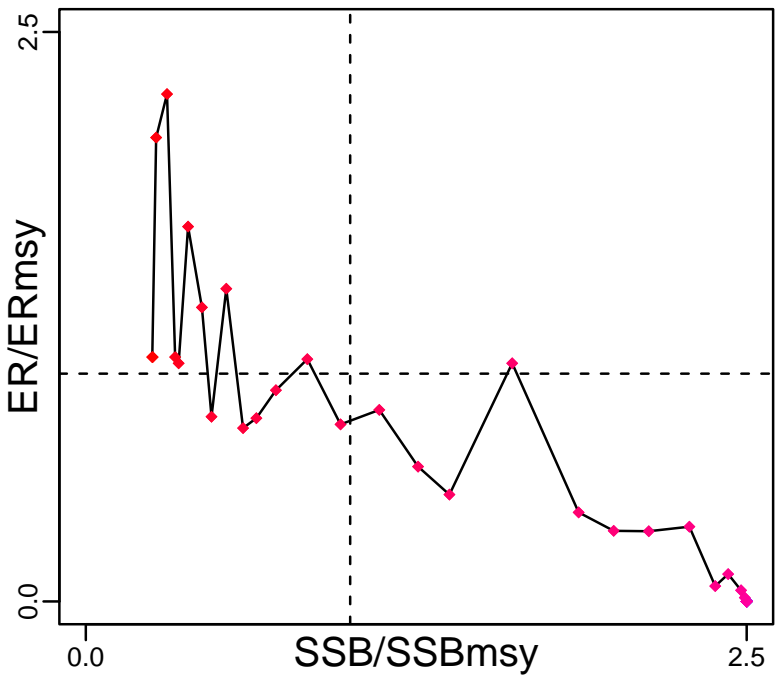
Metadata	
Scientific Name	Epigonus telescopus
Current Assess ID	NIWA-BKCDLFENI-1923-2009-CORDUE
Area	East coast of North Island
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in RAM	2009

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

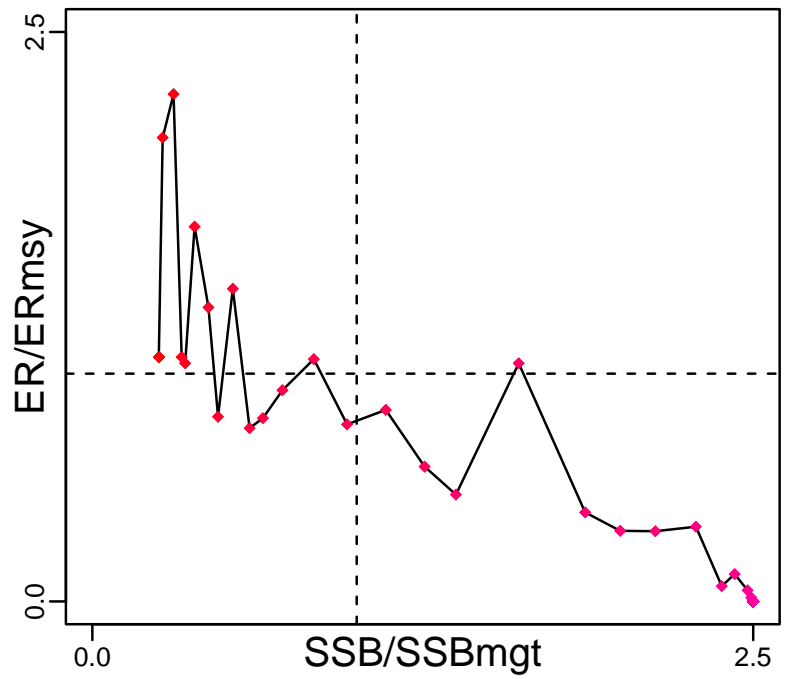
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2009	3620	Both	39.5
TN	-	-	-	-	-
R	R-E00	2009	982,000	-	1
F	F-1/yr	2009	0.457	-	-
ER	ER-ratio	2009	0.118	-	-
TC	TC-MT	2009	980		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	0.253		
F/Fmsy	FdivFmsy-dimensionless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

Black cardinalfish East coast of North Island [BKCDLFENI]

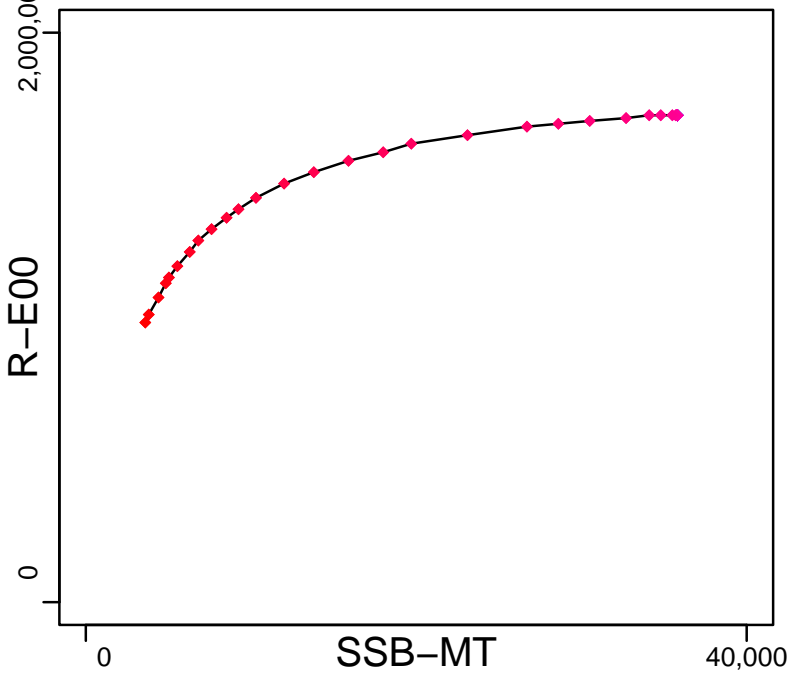
Kobe MSYpref (1923–2009–CORDUE)



Kobe MGTpref (1923–2009–CORDUE)



Spawner Recruit (1923–2009–CORDUE)



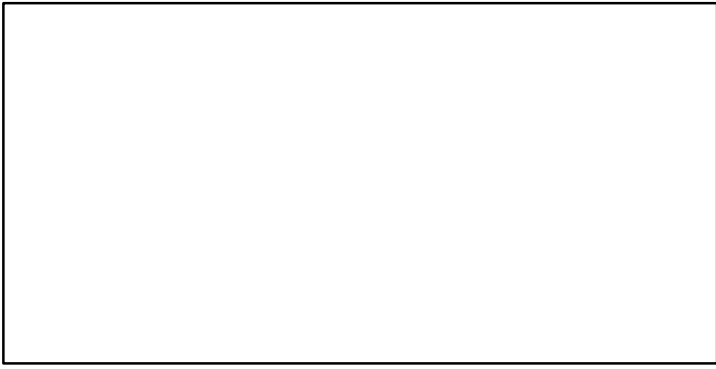
Production*



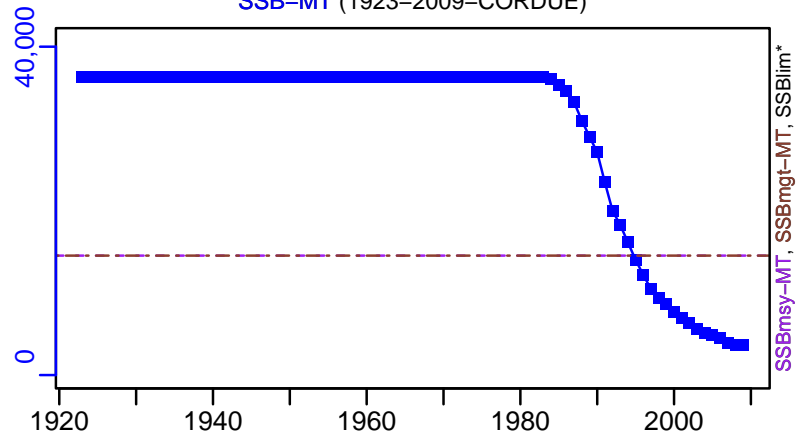
◆ Start Year ◆ End Year * No Data

Black cardinalfish East coast of North Island [BKCDLFENI]

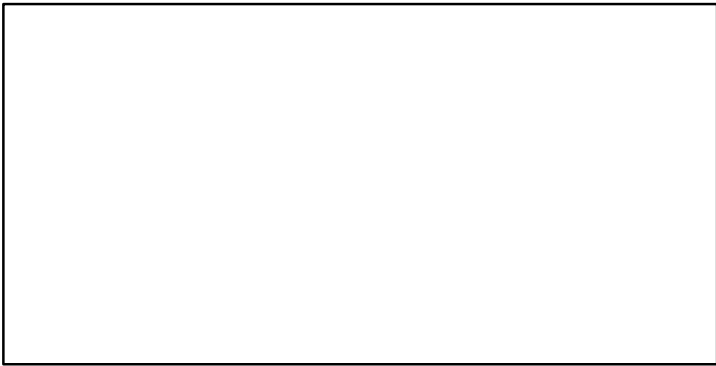
TB*



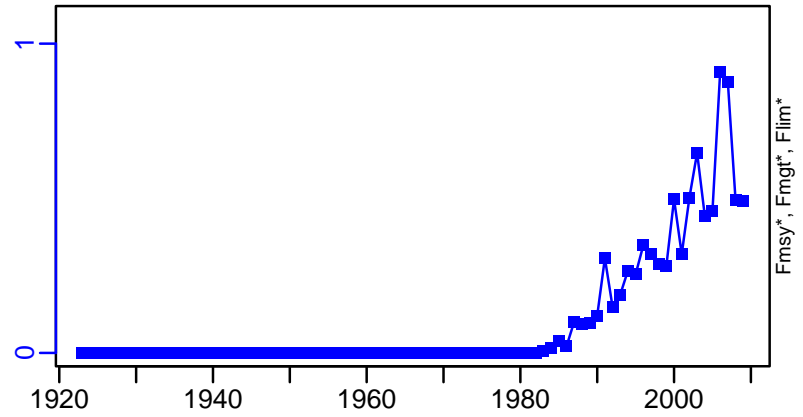
SSB-MT (1923-2009-CORDUE)



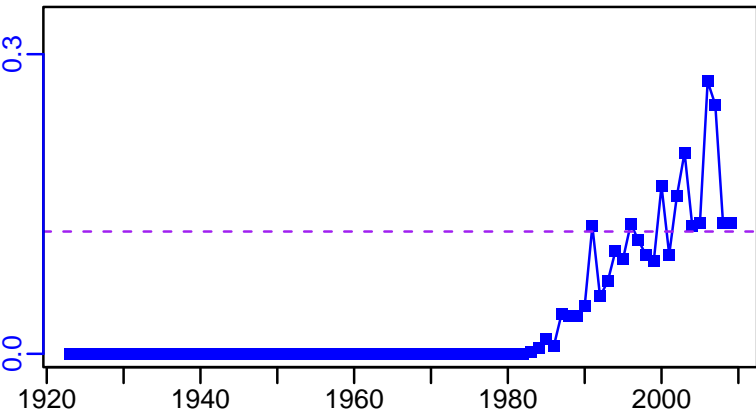
TN *



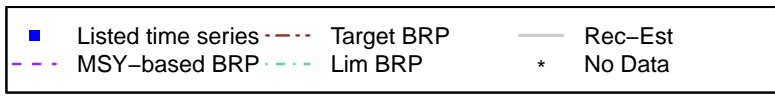
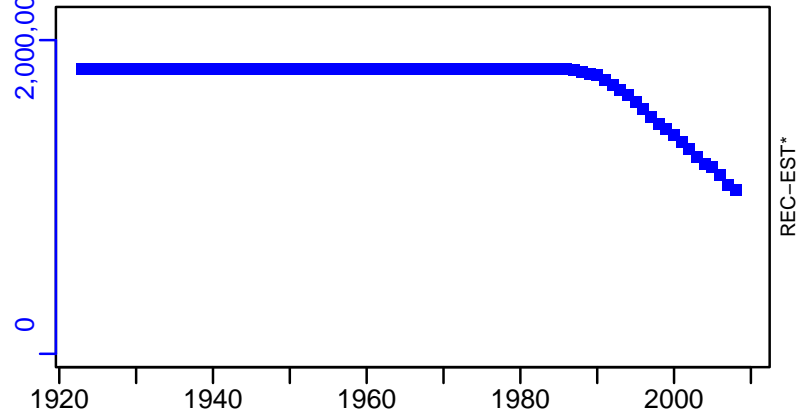
F-1/yr (1923-2009-CORDUE)



ER-ratio (1923-2009-CORDUE)



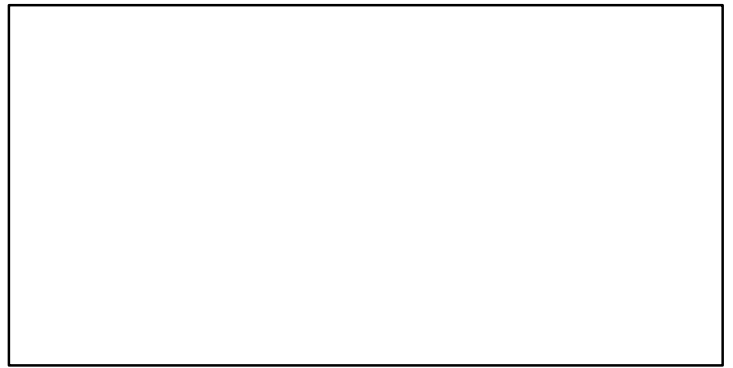
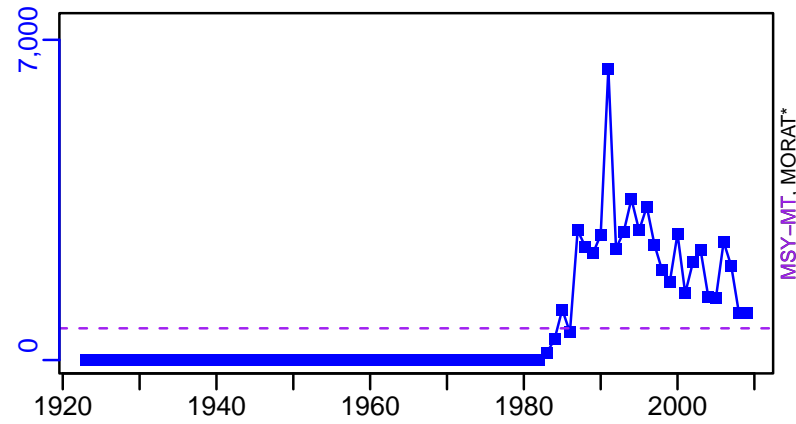
R-E00 (1923-2009-CORDUE)



Black cardinalfish East coast of North Island [BKCDLFENI]

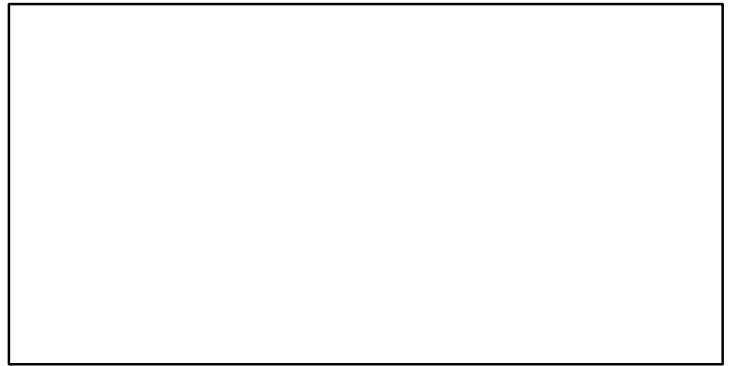
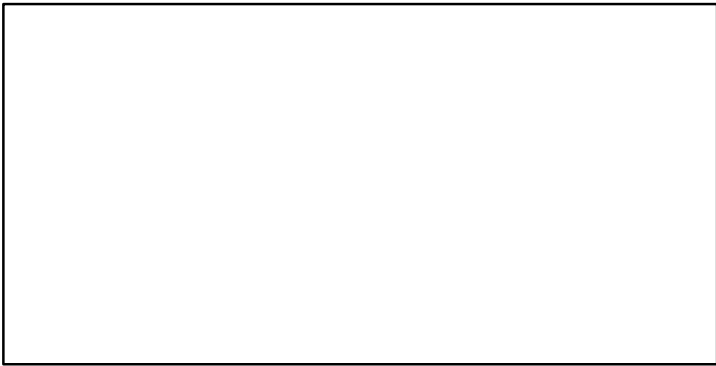
TC-MT, TL*, RecC* (1923-2009-CORDUE)

TAC*, Cpair*, Cadv*



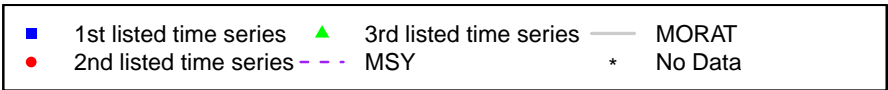
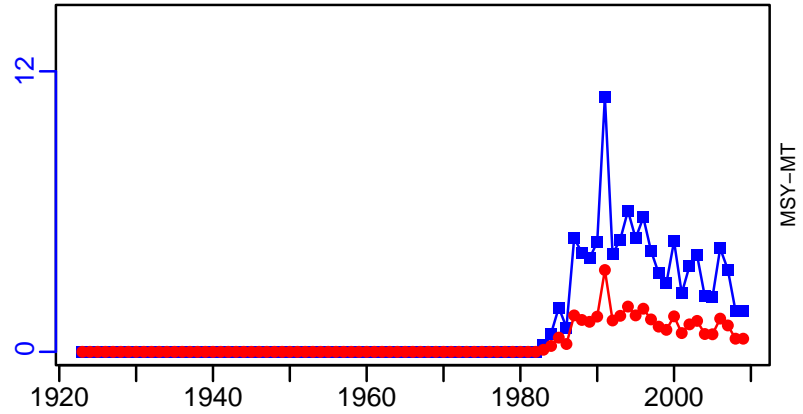
survB*

CPUE*



EFFORT*

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



Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPELGMSATL]

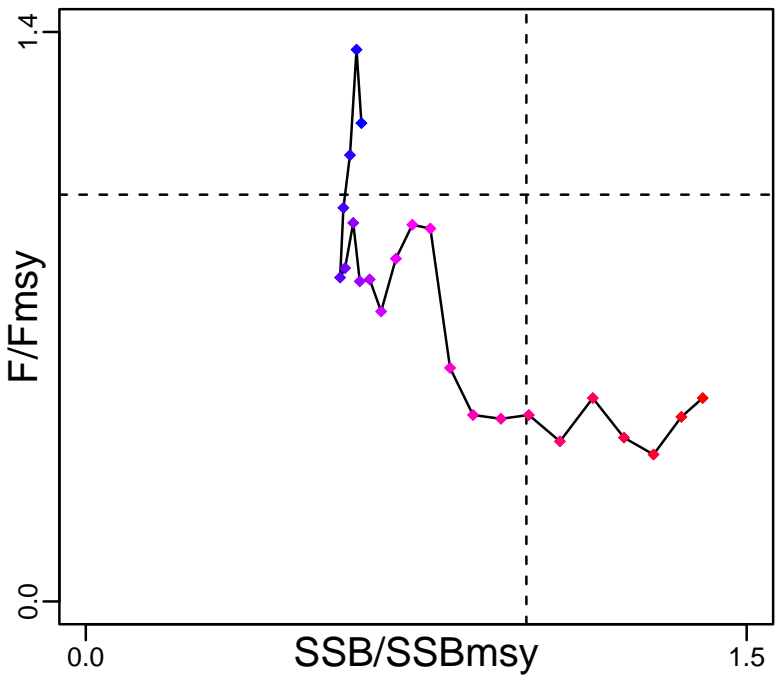
Metadata	
Scientific Name	Mycteroperca bonaci
Current Assess ID	SEFSC-BLACKGROUPELGMSATL-1986-2008-THORSON
Area	Gulf of Mexico and South Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2008

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

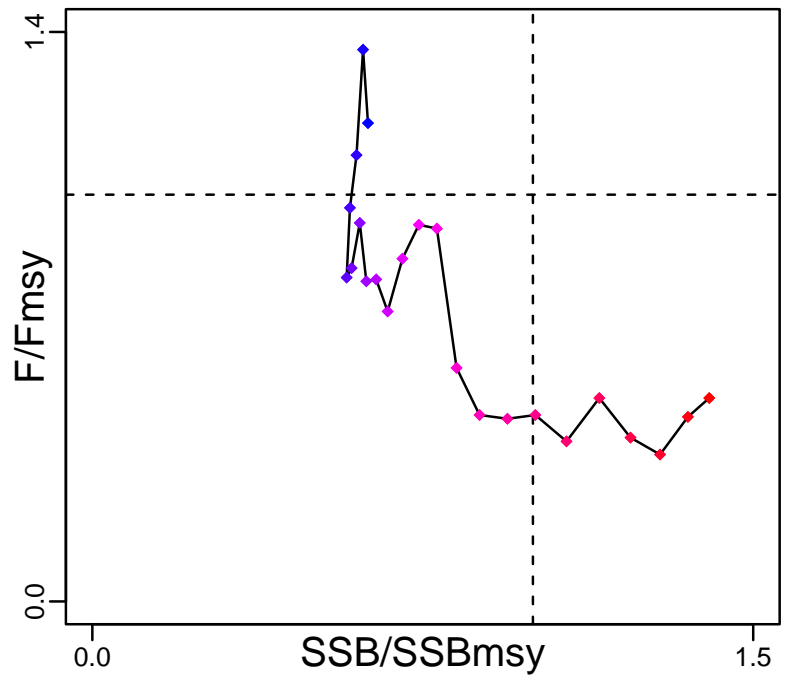
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2008	3760	Both	7+
TN	-	-	-	-	-
R	R-E00	2008	169,000	-	1
F	F-1/yr	2008	0.108	Females	5
ER	-	-	-	-	-
TC	TC-MT	2008	138		
TL	TL-MT	2008	99		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2008	1.4		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr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

Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEMGMSATL]

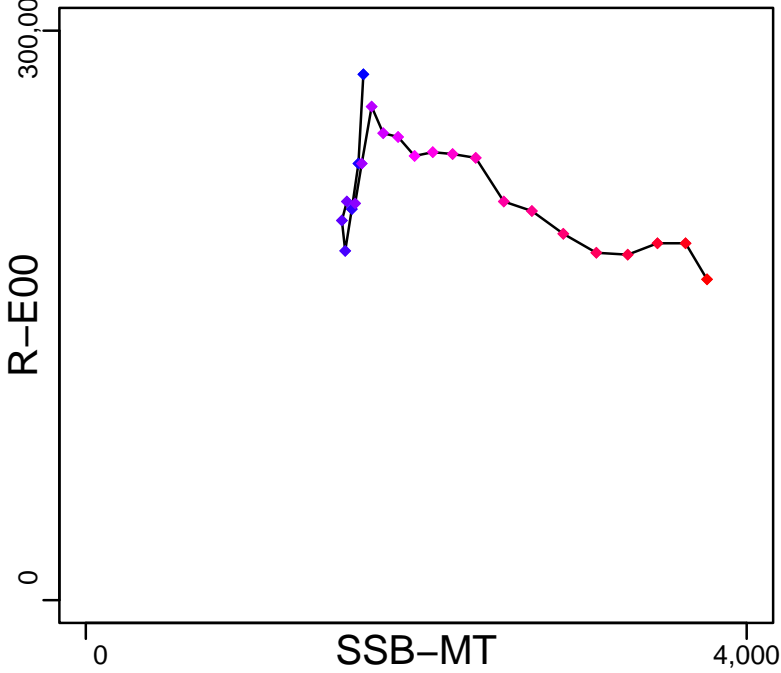
Kobe MSYpref (1986–2008–THORSON)



Kobe MGTpref (1986–2008–THORSON)



Spawner Recruit (1986–2008–THORSON)



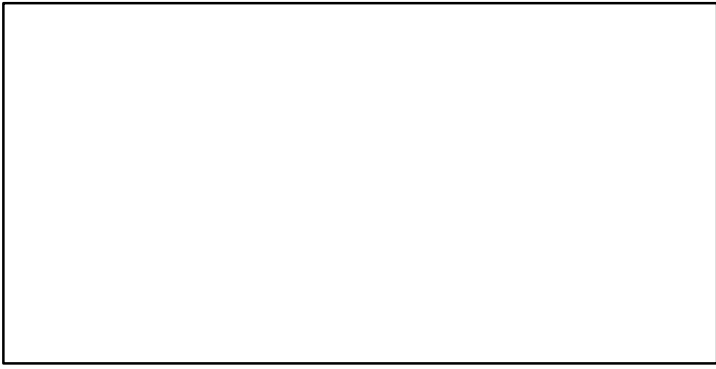
Production*



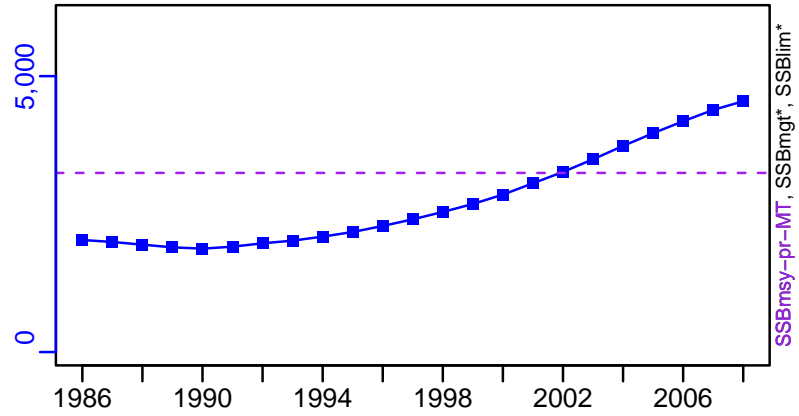
◆ Start Year ◆ End Year * No Data

Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEGMSATL]

TB*



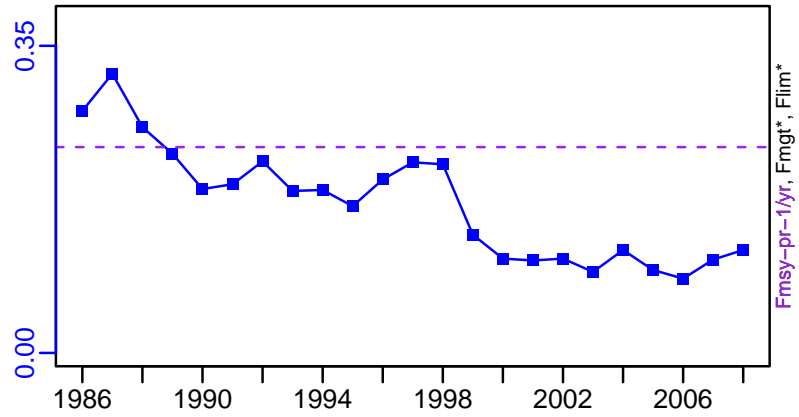
SSB-MT (1986-2008-THORSON)



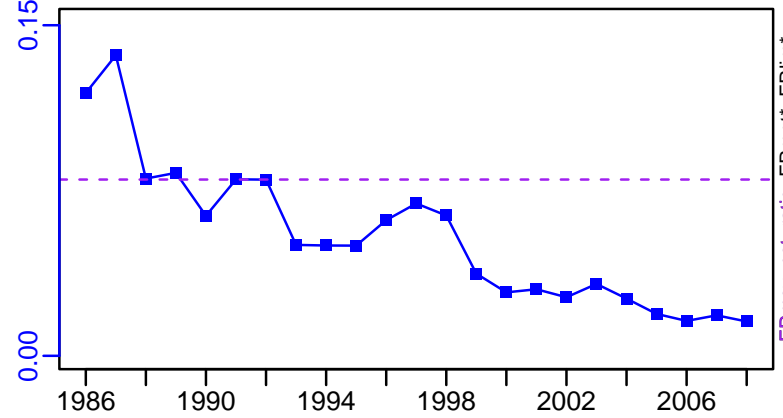
TN *



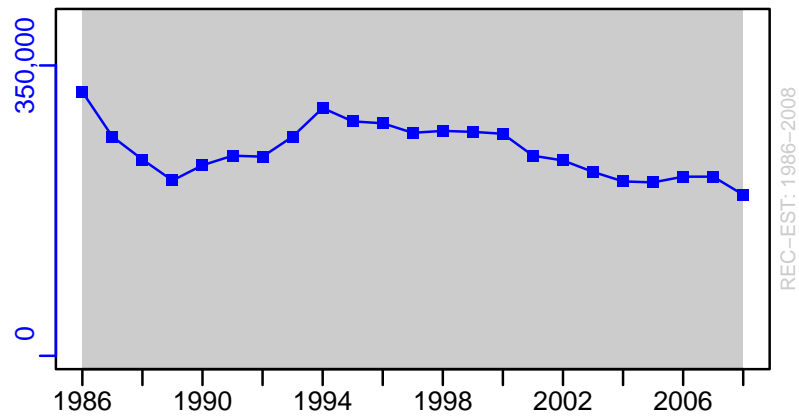
F-1/yr (1986-2008-THORSON)



ER-calc-ratio (1986-2008-THORSON)



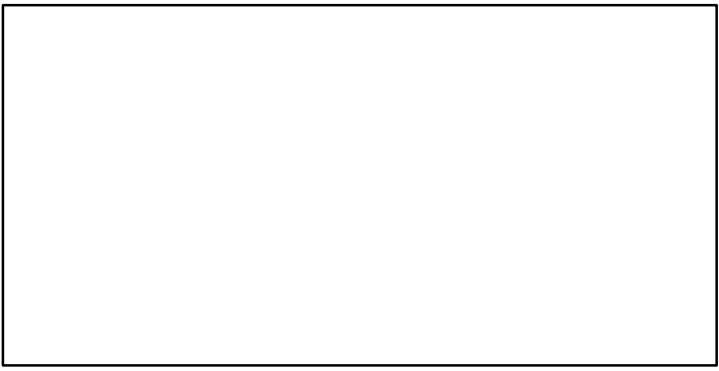
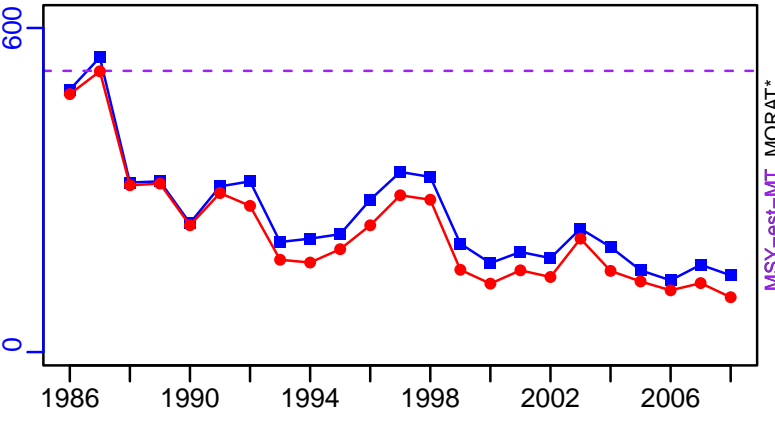
R-E00 (1986-2008-THORSON)



Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEMGMSATL]

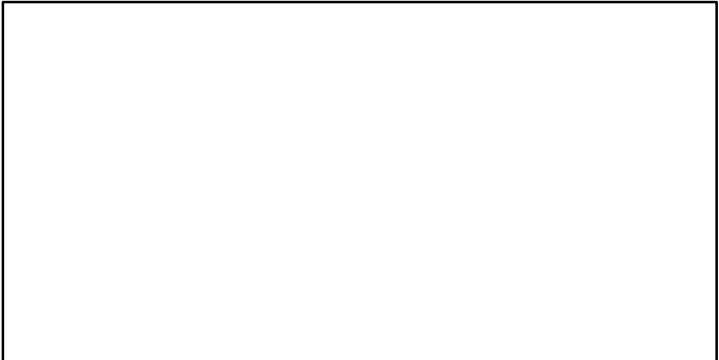
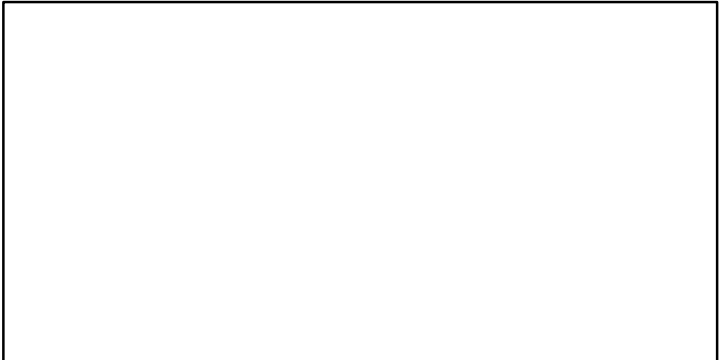
TC-MT, TL-MT, RecC* (1986-2008-THORSON)

TAC*, Cpair*, Cadv*



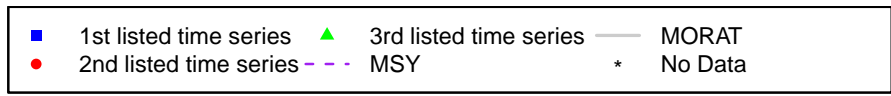
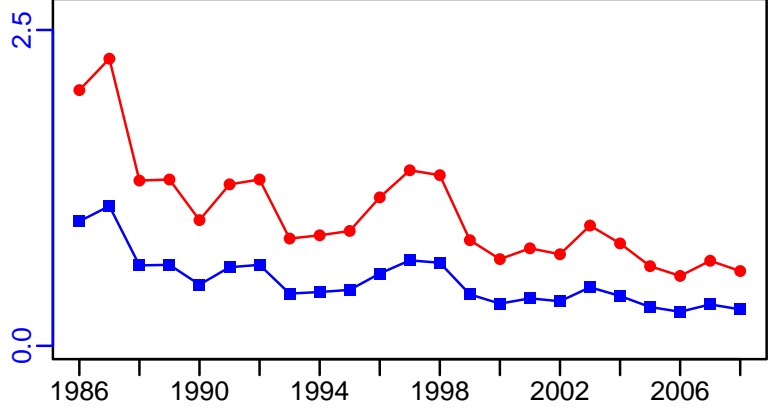
survB*

CPUE*



EFFORT*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (1986-2008-THORSON)



Blueline tilefish Southern Atlantic coast [BLTILESATLC]

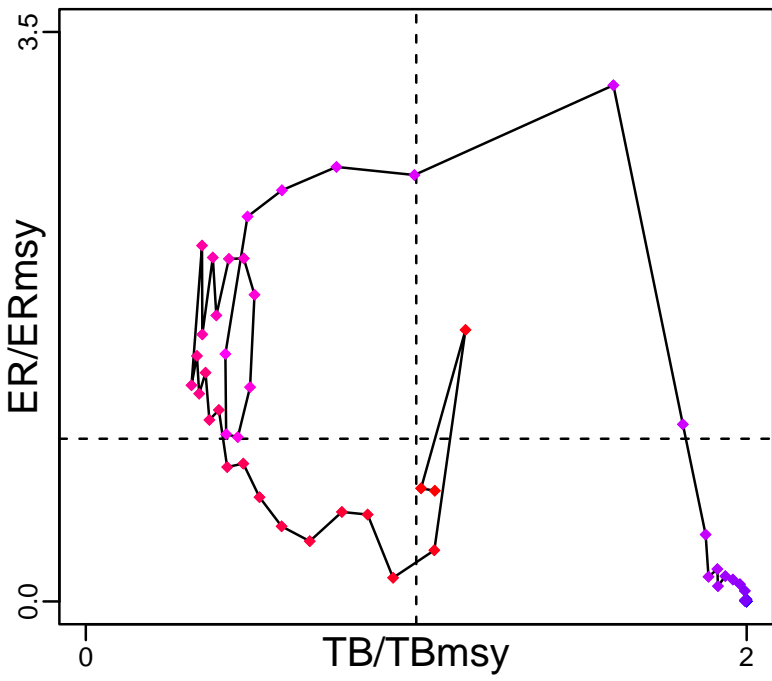
Metadata	
Scientific Name	Caulolatilus microps
Current Assess ID	SEFSC-BLTILESATLC-1958-2015-SISIMP2021
Area	Southern Atlantic coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2015, 2011

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

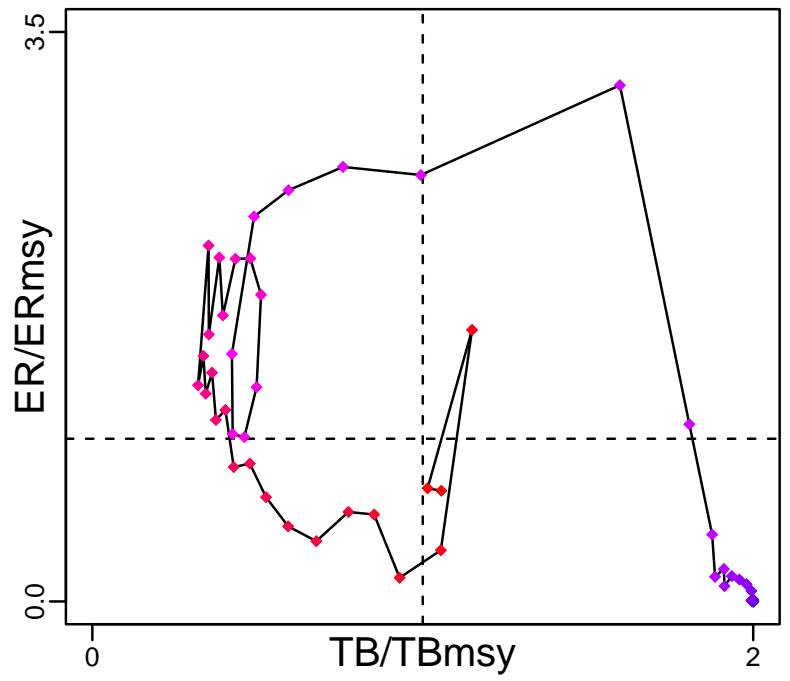
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	703	-	-
SSB	SSB-MT	2011	202	Females	3+
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2015	0.134	-	-
ER	ER-calc-ratio	2015	0.098	-	-
TC	TC-MT	2015	69		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	1.056		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.818		
F/Fmsy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

Blueline tilefish Southern Atlantic coast [BLTILESATLC]

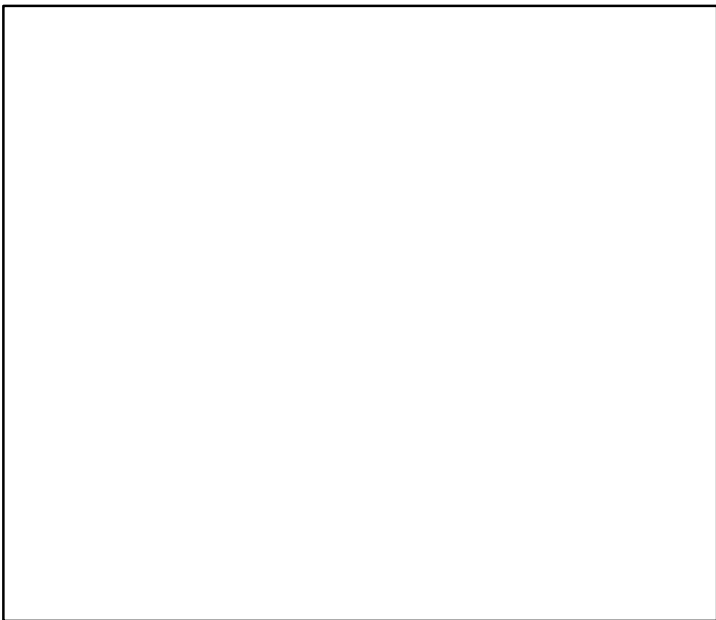
Kobe MSYpref (1958–2015–SISIMP2021)



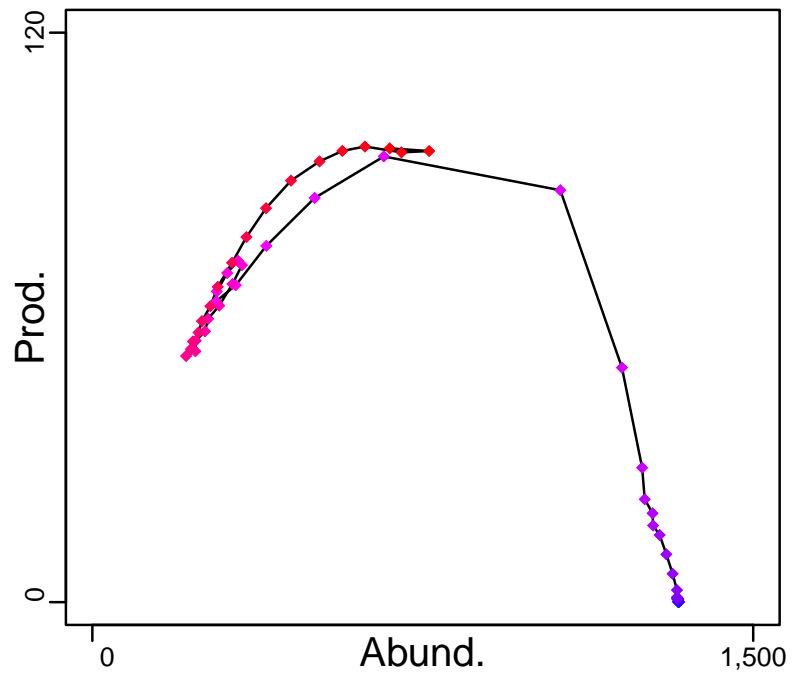
Kobe MGTpref (1958–2015–SISIMP2021)



Spawner Recruit*



Production (1958–2015–SISIMP2021)

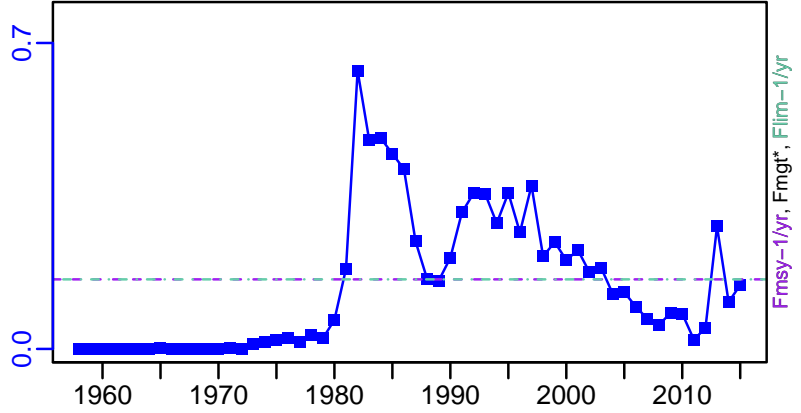
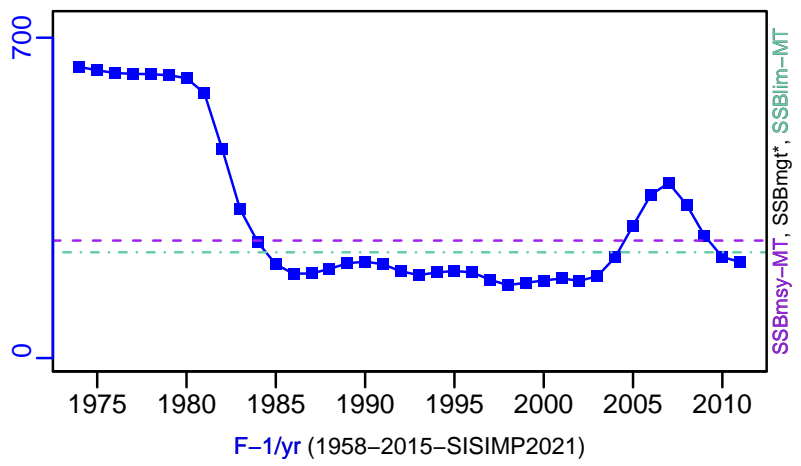
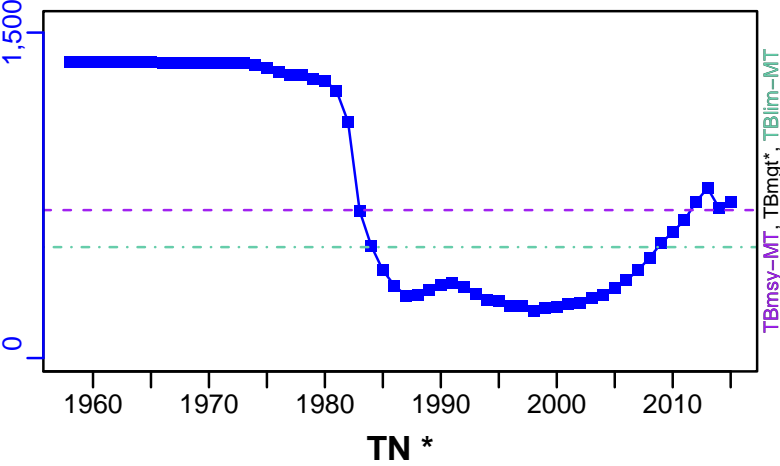


◆ Start Year ◆ End Year * No Data

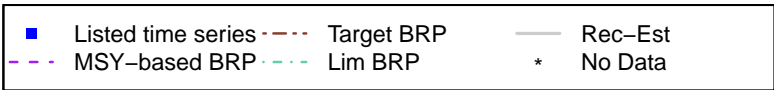
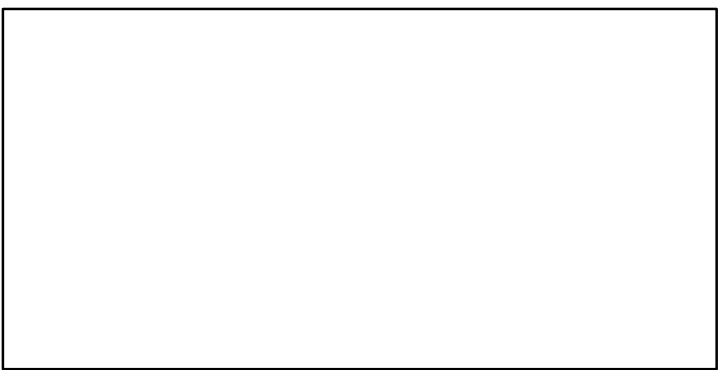
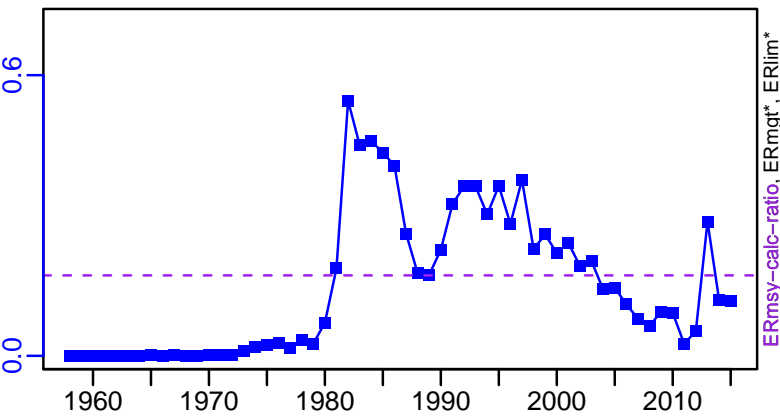
Blueline tilefish Southern Atlantic coast [BLTILESATLC]

TB-MT (1958-2015-SISIMP2021)

SSB-MT (1974-2011-SISIMP2016)



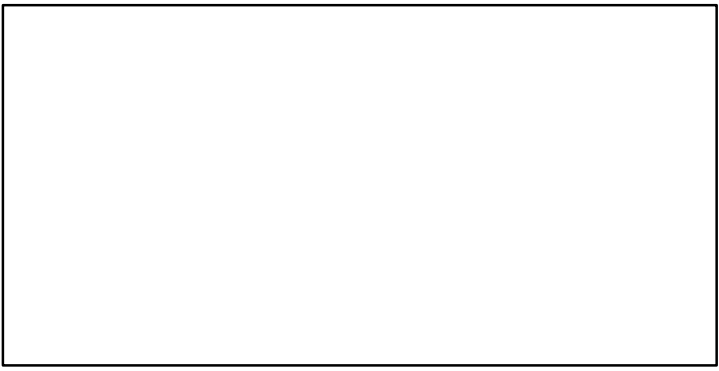
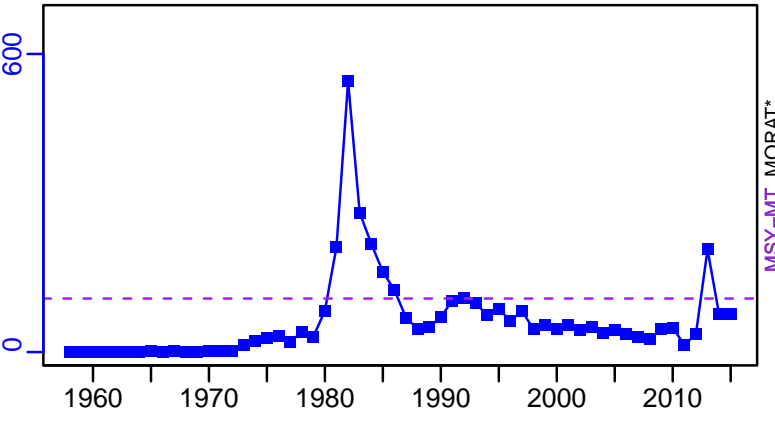
ER-calc-ratio (1958-2015-SISIMP2021)



Blueline tilefish Southern Atlantic coast [BLTILESATLC]

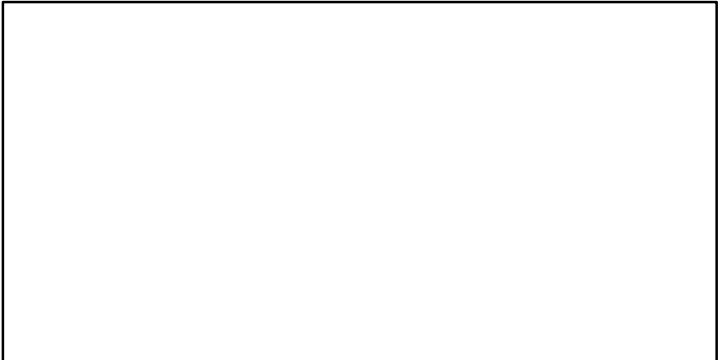
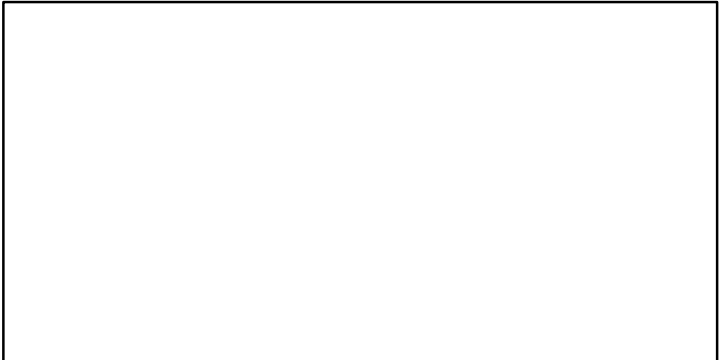
TC-MT, TL*, RecC* (1958-2015-SISIMP2021)

TAC*, Cpair*, Cadv*



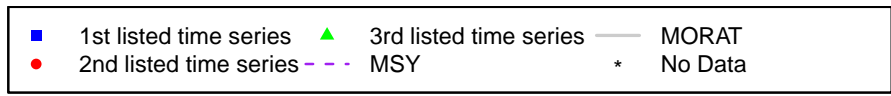
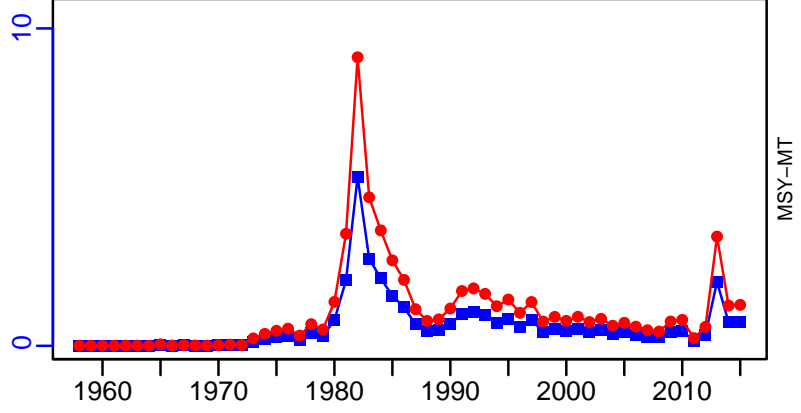
survB*

CPUE*



EFFORT*

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



Bluefish Atlantic Coast [BLUEFISHATLC]

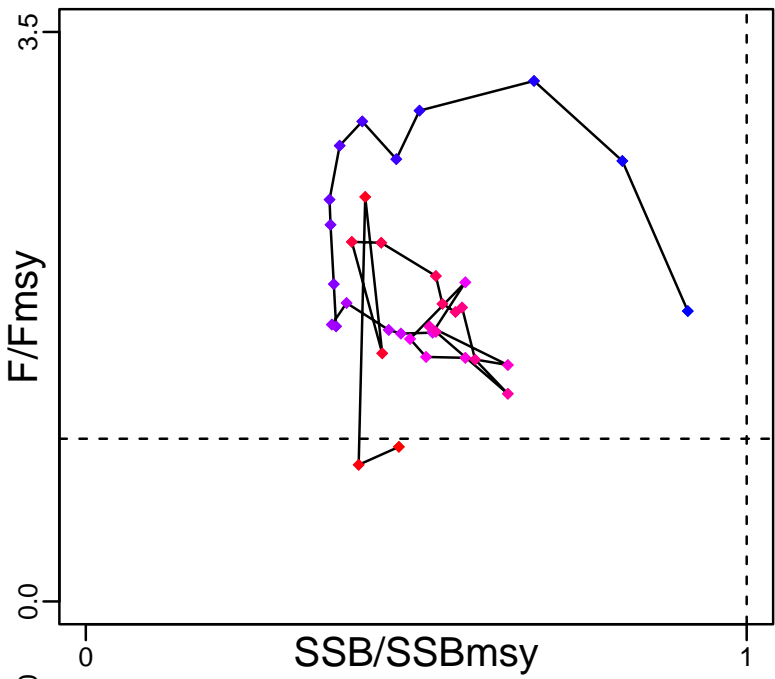
Metadata	
Scientific Name	Pomatomus saltatrix
Current Assess ID	NEFSC-BLUEFISHATLC-1985-2019-SISIMP2021-2
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2014, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2007	147,052
SSBmsy	SSBmsy-MT	2019	202,000
Fmsy	Fmsy-1/yr	2019	0.181
ERmsy	ERmsy-ratio	2007	0.106
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	25,500
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	101,000
Flim	Flim-1/yr	2019	0.181
ERlim	-	-	-

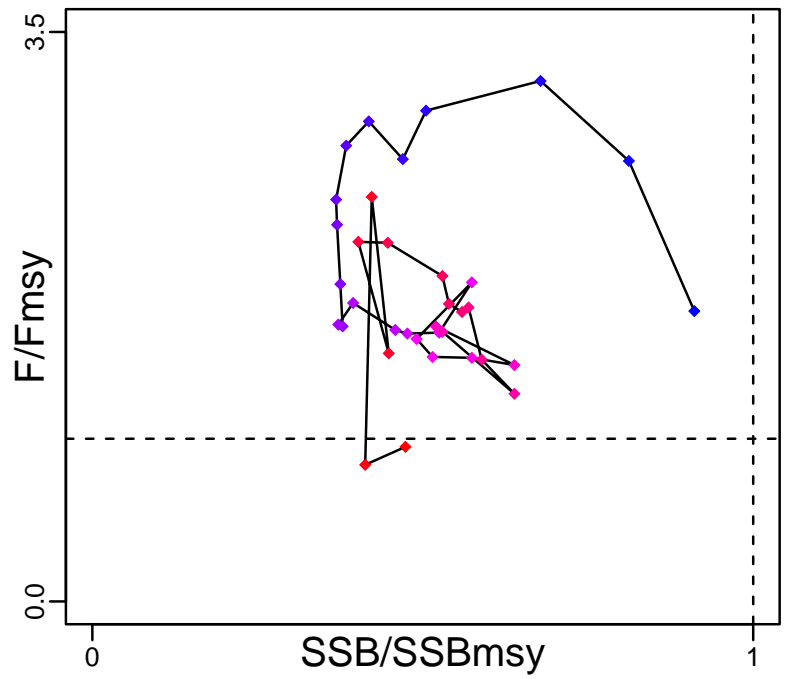
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	94,300	-	-
SSB	SSB-MT	2019	95,700	-	-
TN	-	-	-	-	-
R	R-E00	2019	27,900,000	-	0
F	F-1/yr	2019	0.172	-	-
ER	ER-calc-ratio	2014	0.104	-	-
TC	TC-MT	2019	15,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2007	1.047		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.474		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.95		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.954		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Bluefish Atlantic Coast [BLUEFISHATLC]

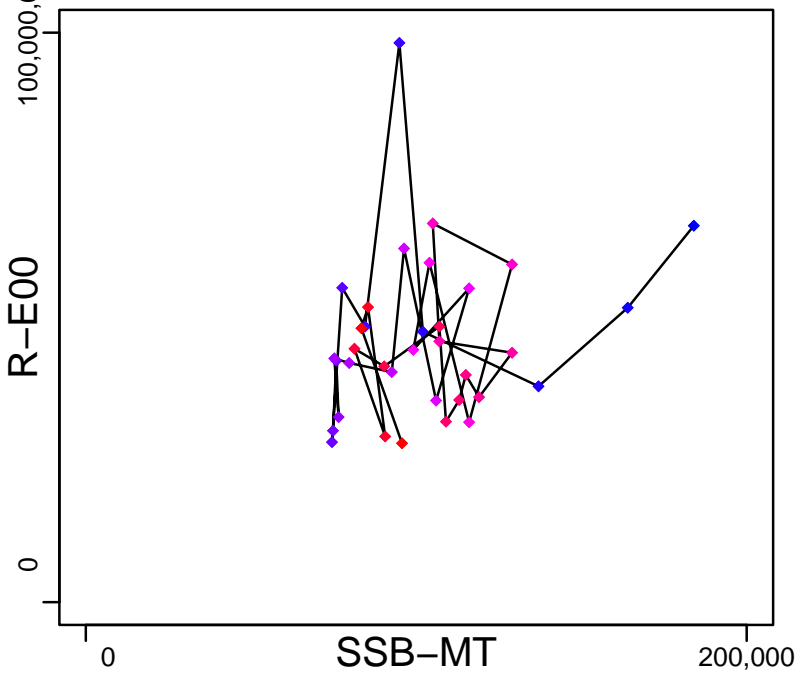
Kobe MSYpref (1985–2019–SISIMP2021–2)



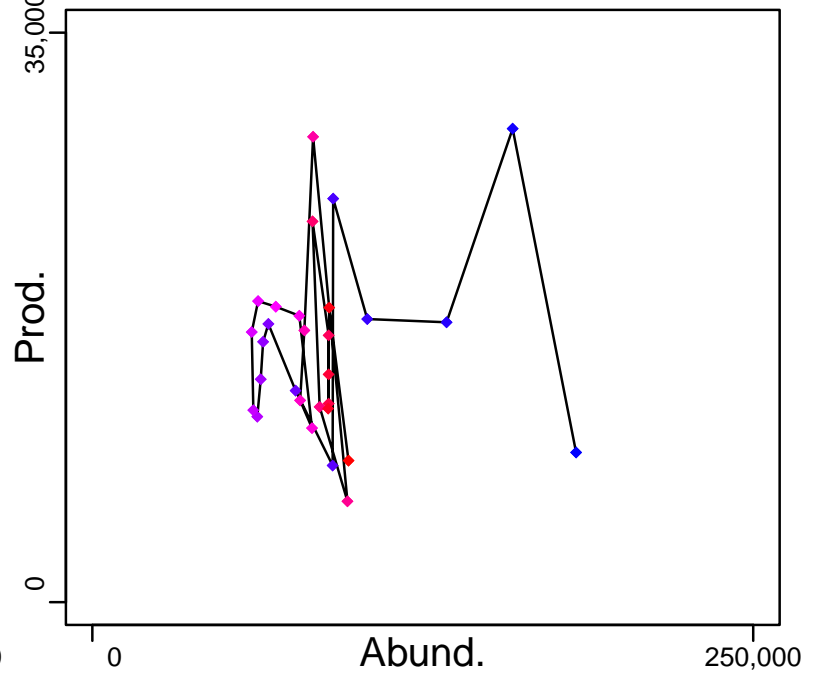
Kobe MGTpref (1985–2019–SISIMP2021–2)



Spawner Recruit (1985–2019–SISIMP2021–2)



Production (1985–2019–SISIMP2021–2)

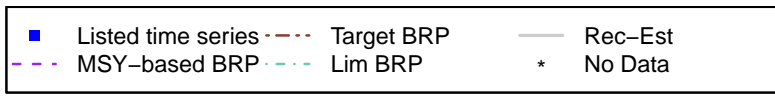
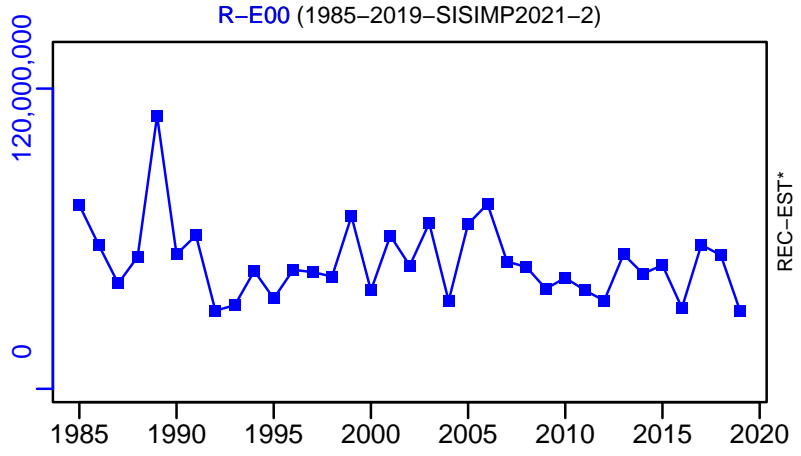
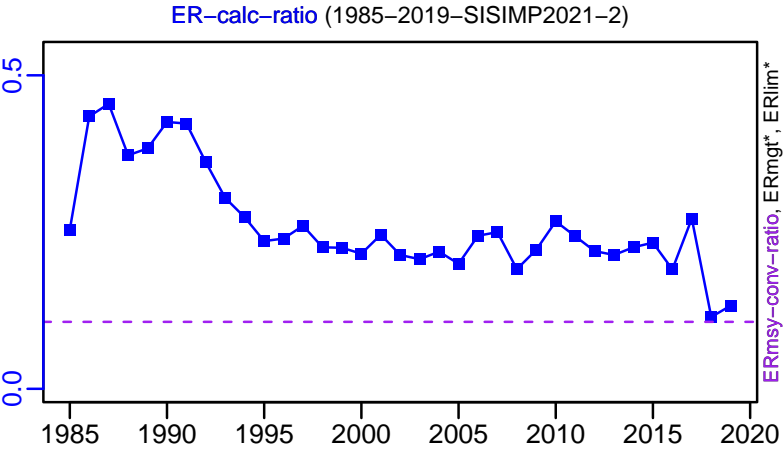
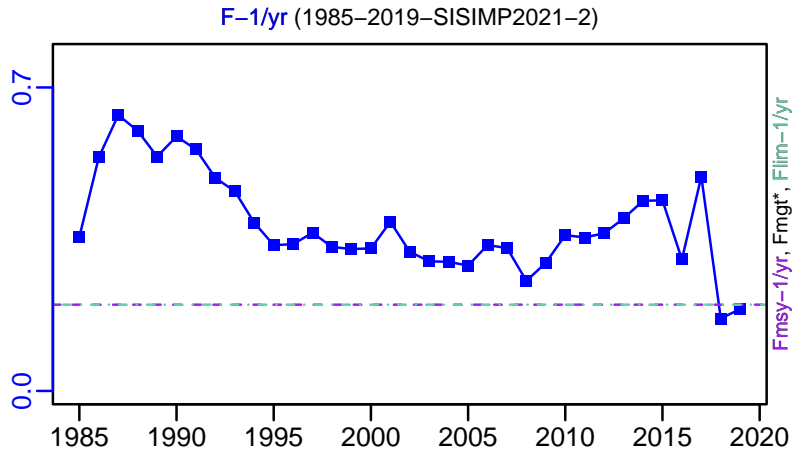
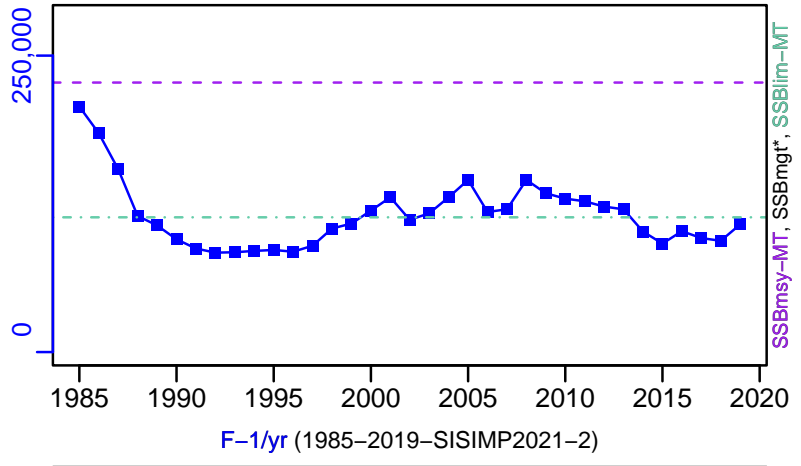
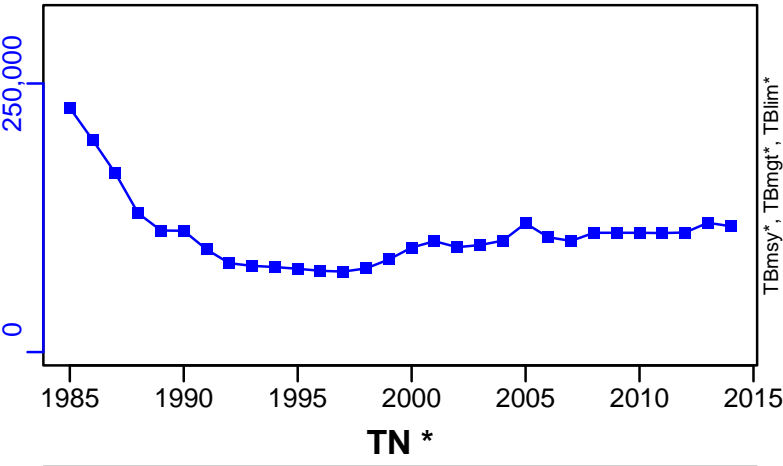


◆ Start Year ◆ End Year * No Data

Bluefish Atlantic Coast [BLUEFISHATLC]

TB-MT (1985-2014-SISIMP2016)

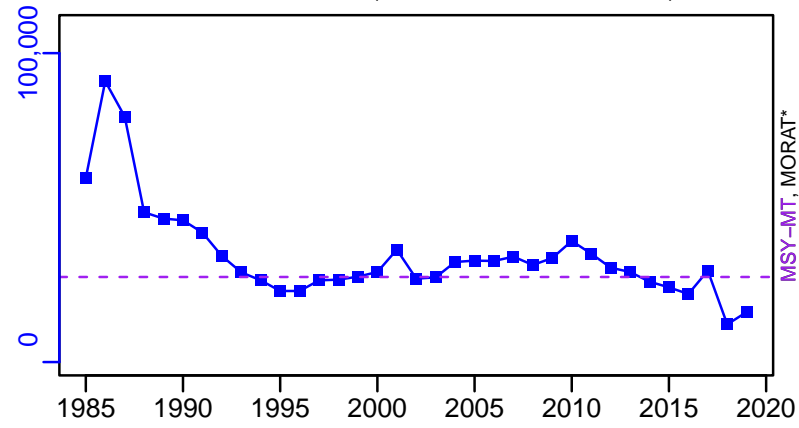
SSB-MT (1985-2019-SISIMP2021-2)



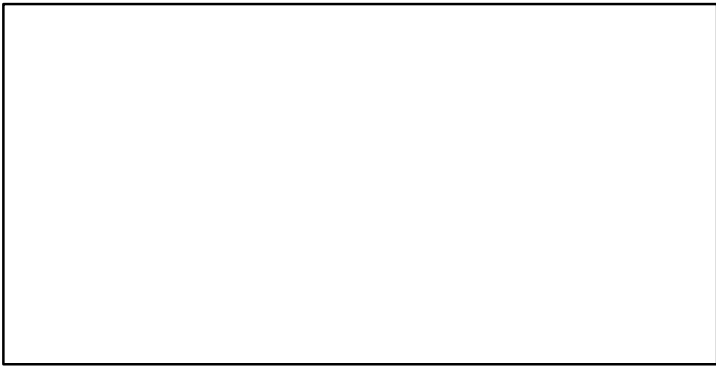
Bluefish Atlantic Coast [BLUEFISHATLC]

TC-MT, TL*, RecC* (1985-2019-SISIMP2021-2)

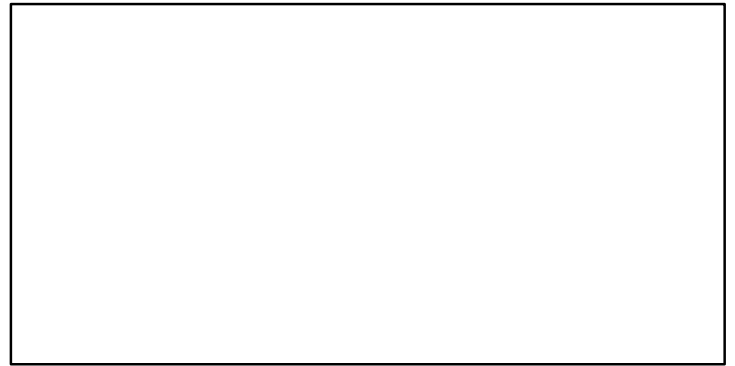
TAC*, Cpair*, Cadv*



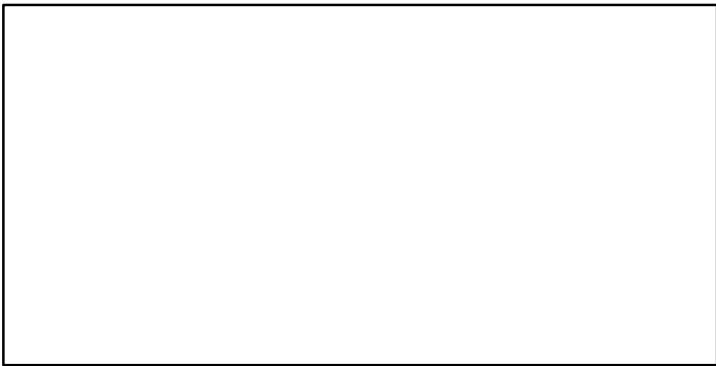
survB*



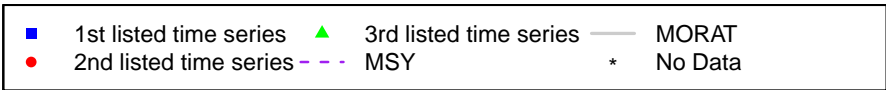
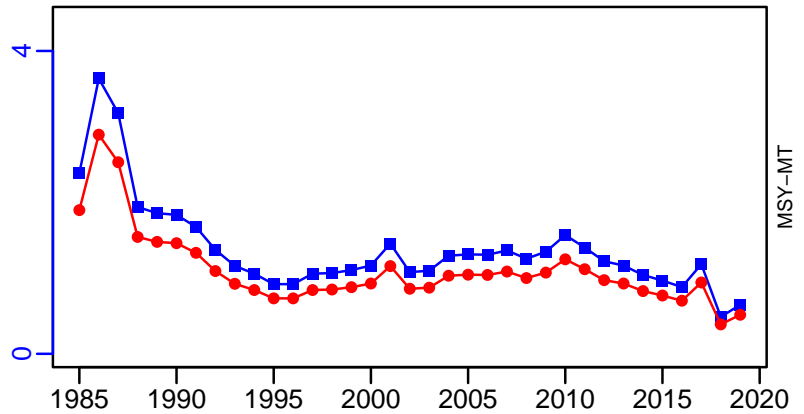
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1985-2019-SISIMP2021-2)



Yellow sea bream Sea of Japan [BRMSOJ]

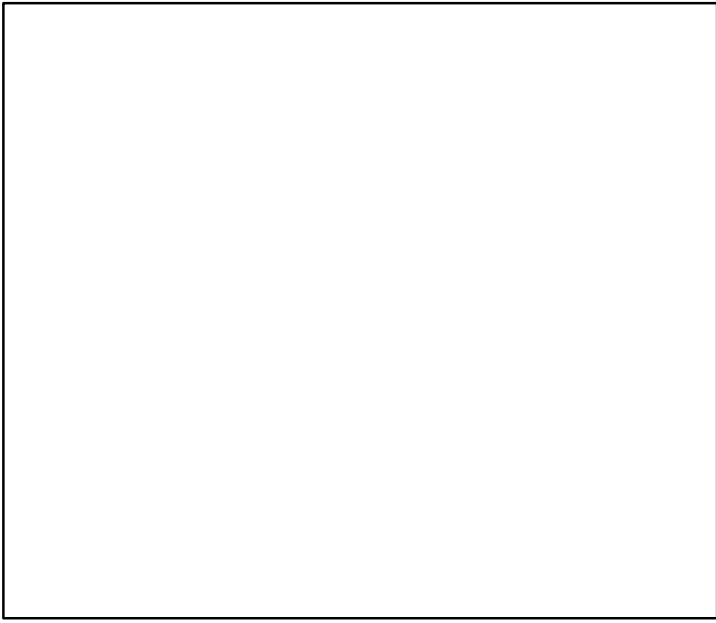
Metadata	
Scientific Name	Dentex tumifrons
Current Assess ID	FAFRFJ-BRMSOJ-1980-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2010, 2013

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

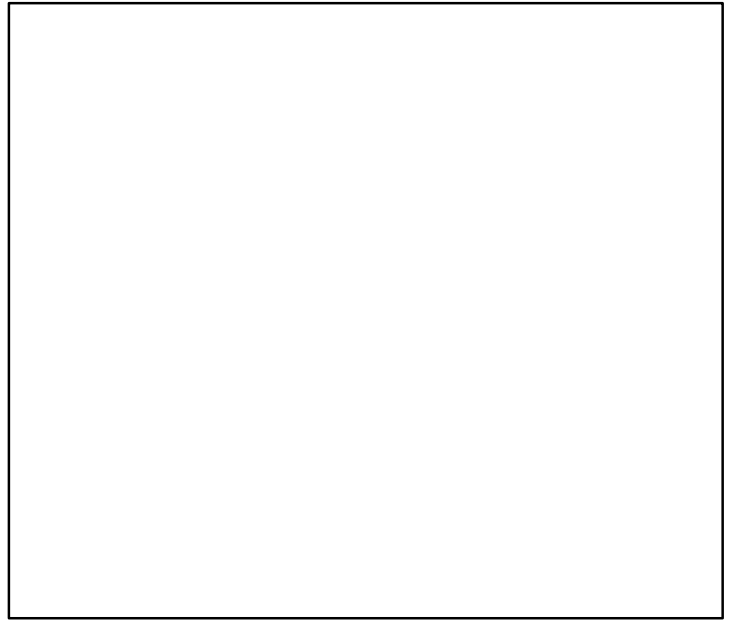
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	5560	-	0
SSB	SSB-MT	2010	2910	-	-
TN	-	-	-	-	-
R	R-E00	2010	4.4×10^7	-	-
F	F-1/yr	2010	0.46	-	0 to 4
ER	ER-ratio	2010	0.219	-	-
TC	TC-MT	2013	4140		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt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

Yellow sea bream Sea of Japan [BRMSOJ]

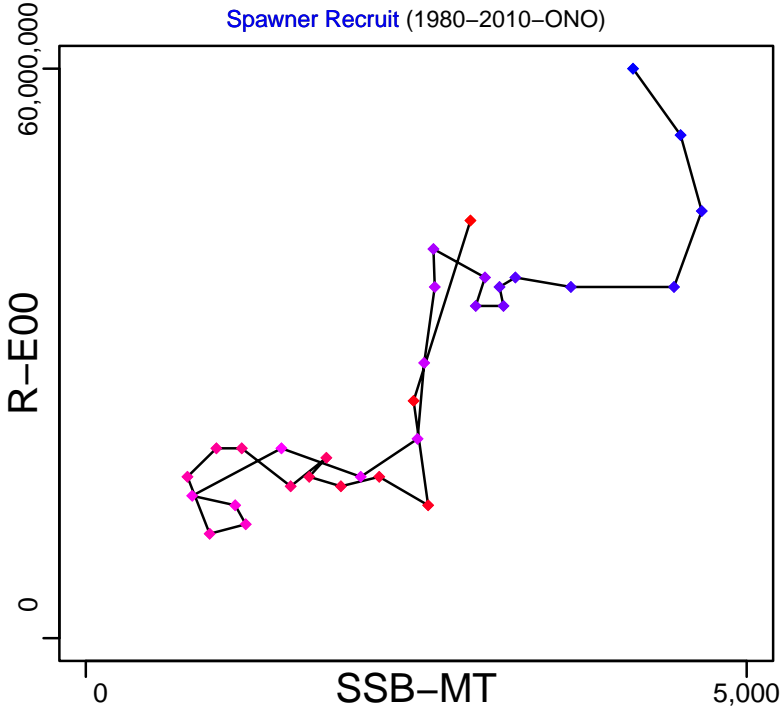
Kobe MSY*



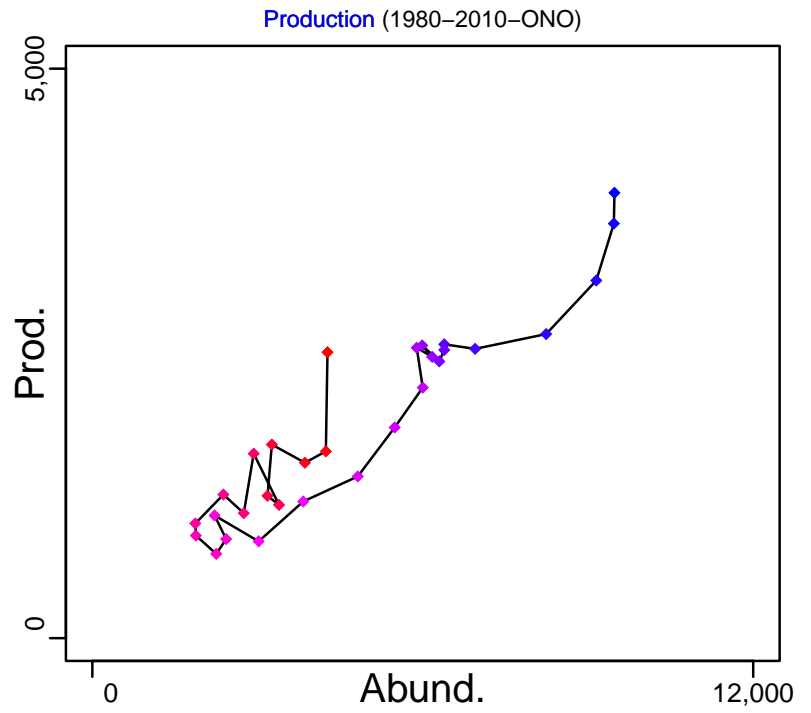
Kobe MGT*



Spawner Recruit (1980-2010-ONO)



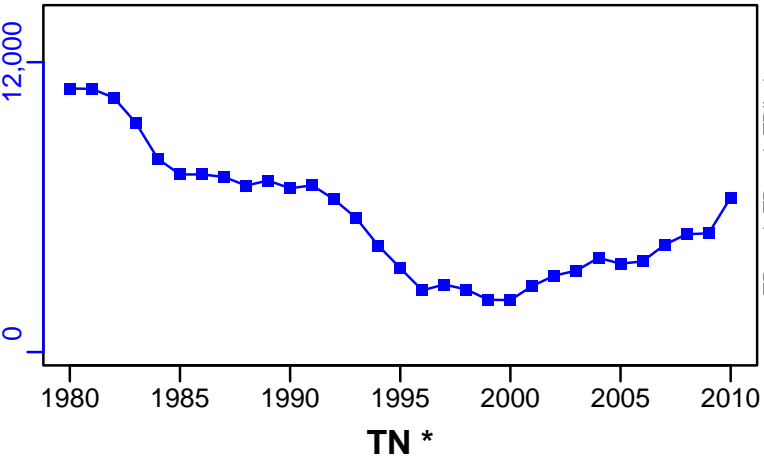
Production (1980-2010-ONO)



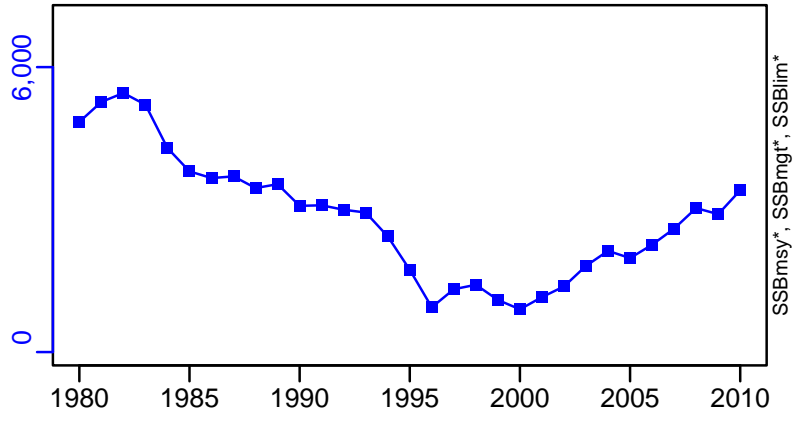
◆ Start Year ◆ End Year * No Data

Yellow sea bream Sea of Japan [BRMSOJ]

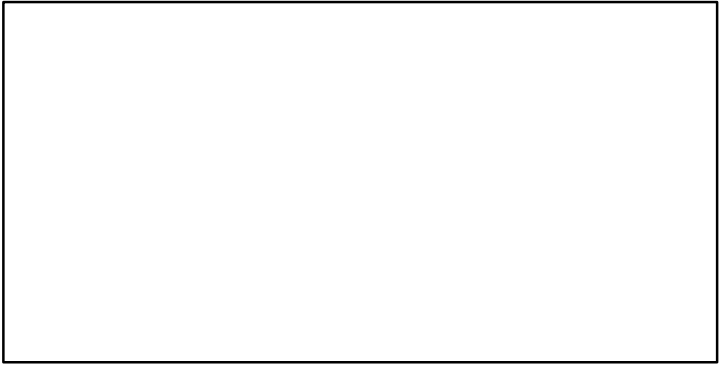
TB-MT (1980-2010-ONO)



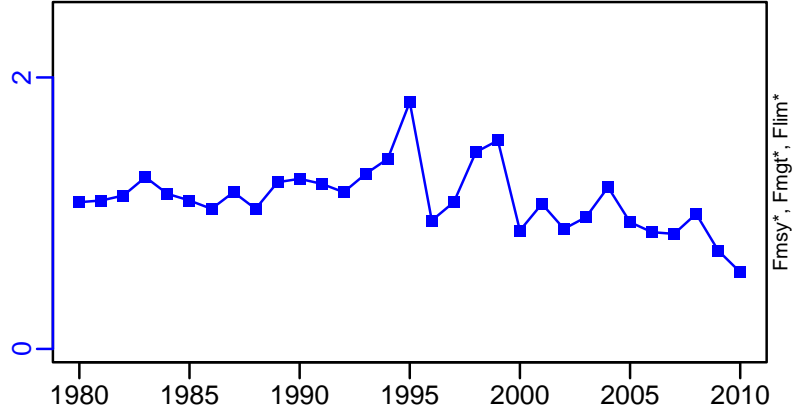
SSB-MT (1980-2010-ONO)



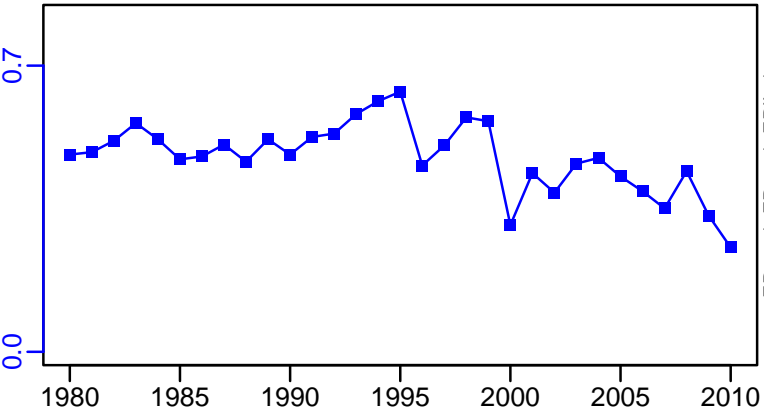
TN *



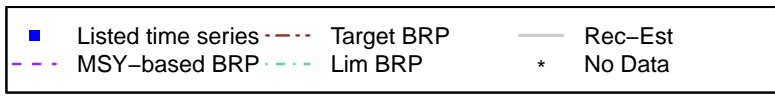
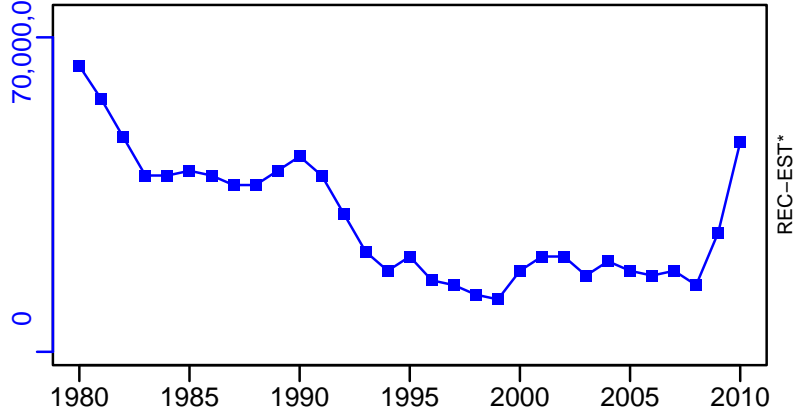
F-1/yr (1980-2010-ONO)



ER-ratio (1980-2010-ONO)



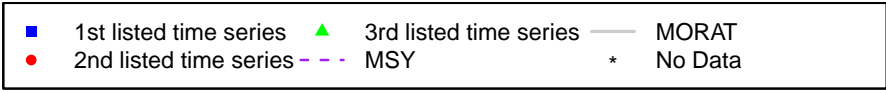
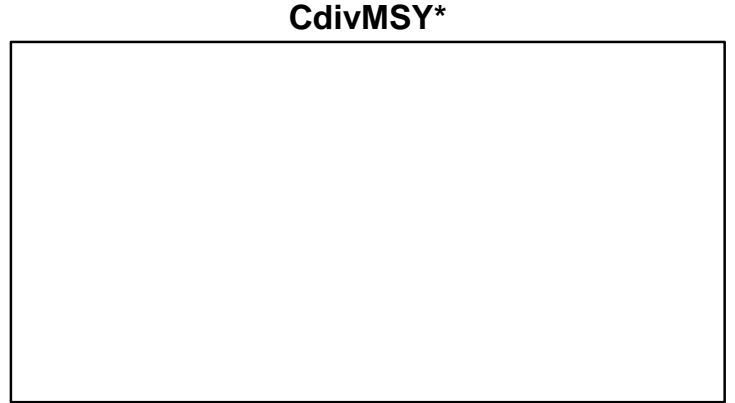
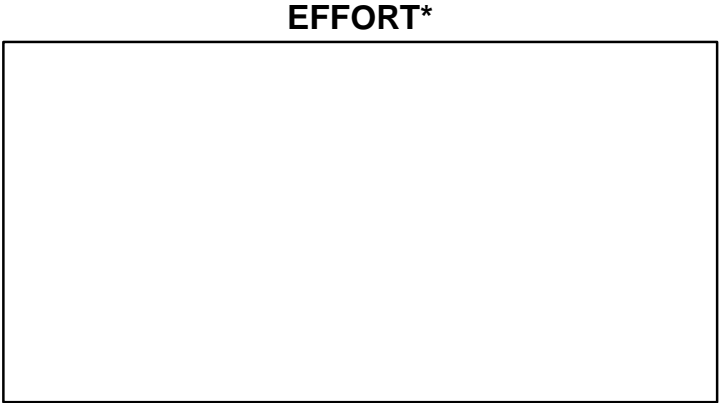
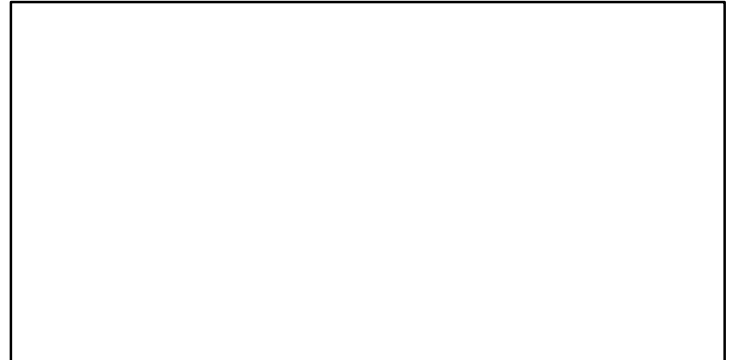
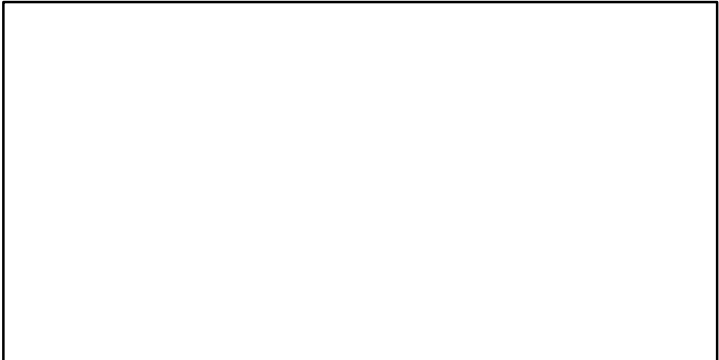
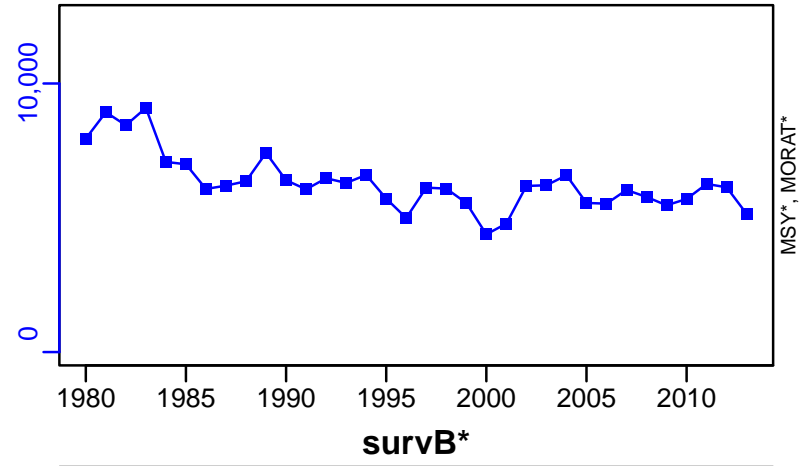
R-E00 (1980-2010-ONO)



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

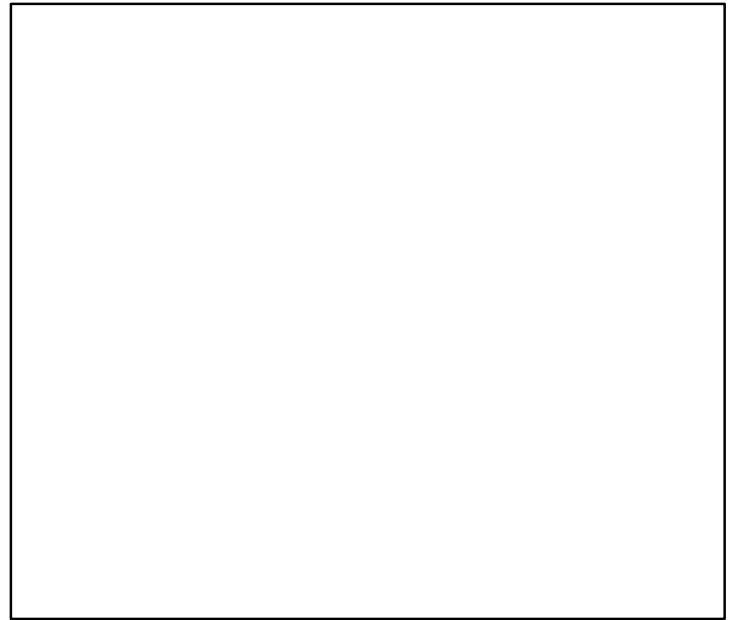
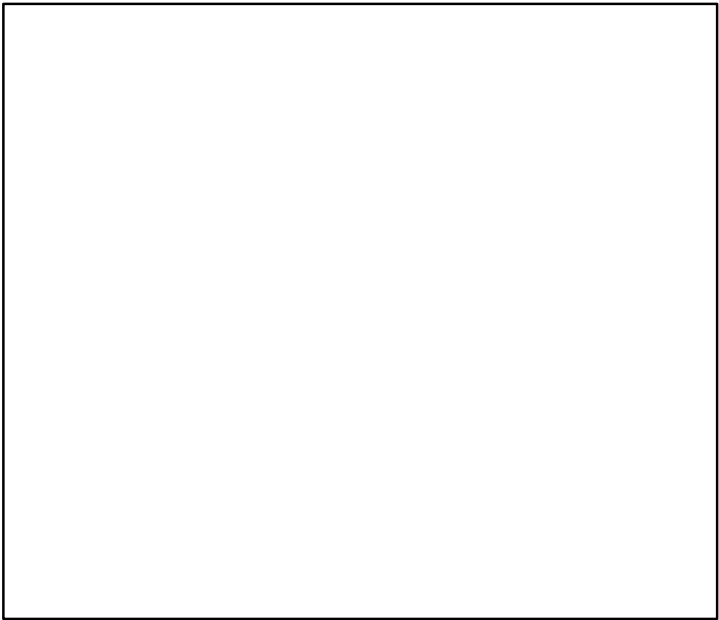
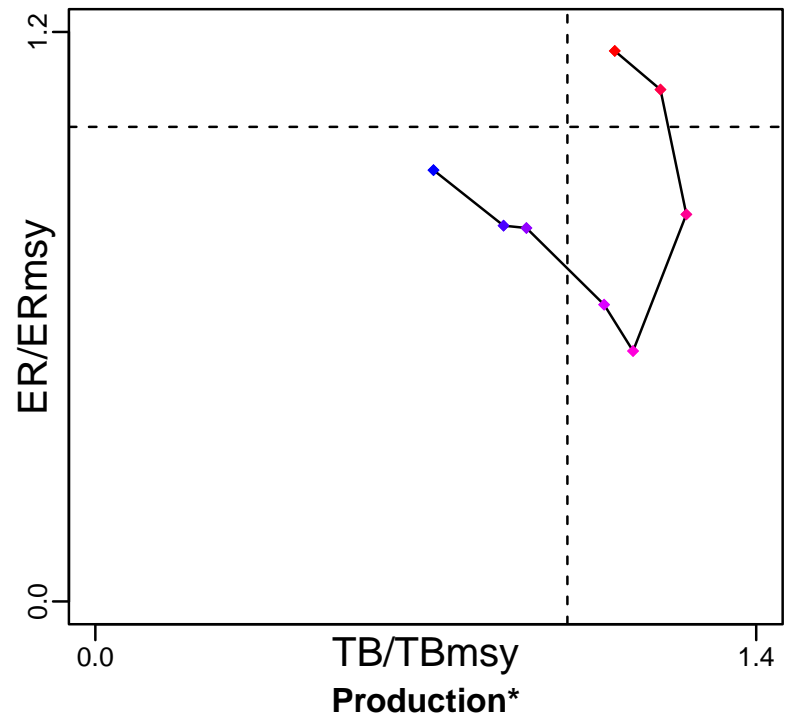
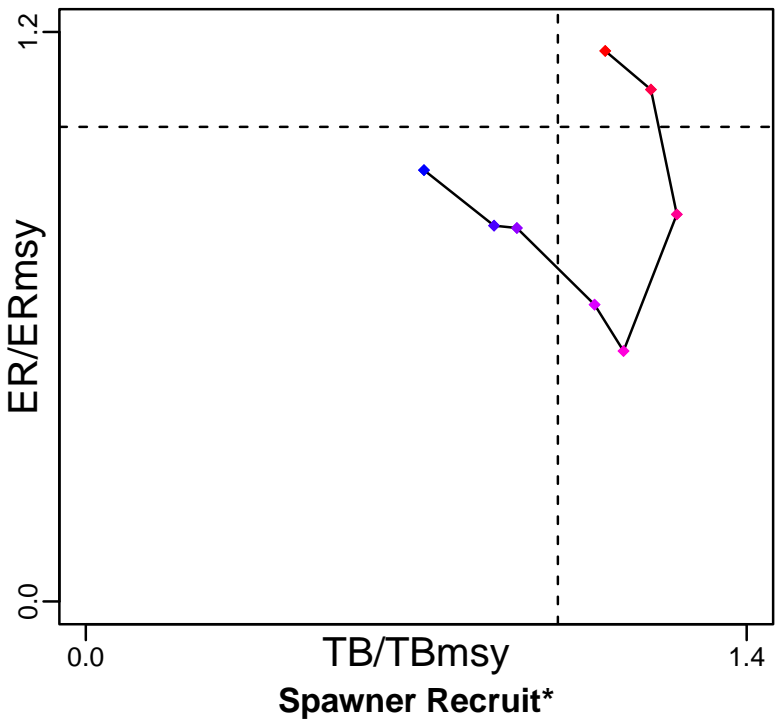
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

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

Kobe MSYpref (1990–2007–CHING)

Kobe MGTpref (1990–2007–CHING)

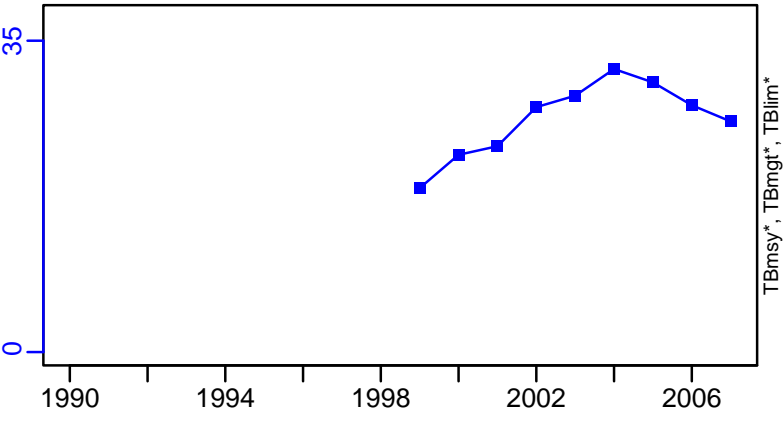


◆ Start Year ◆ End Year * No Data

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

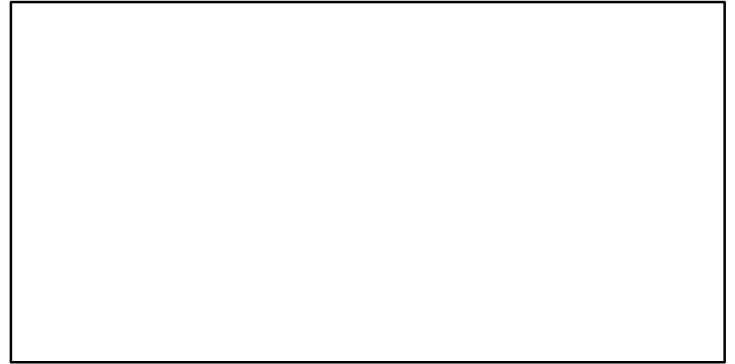
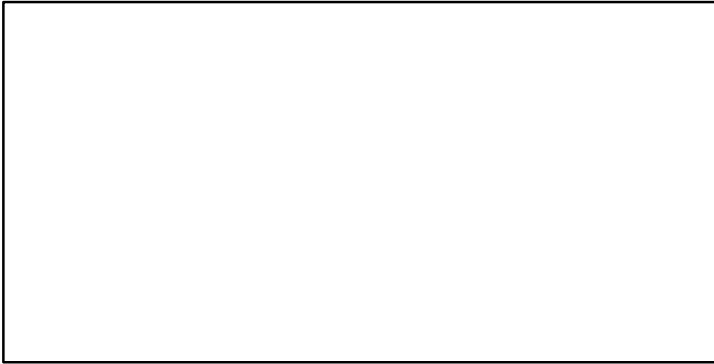
TB-index (1990–2007–CHING)

SSB*



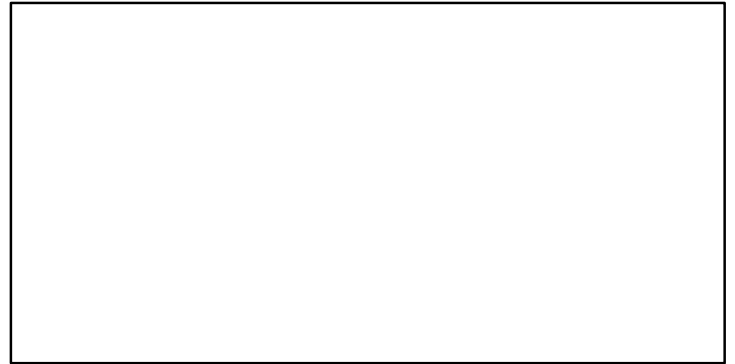
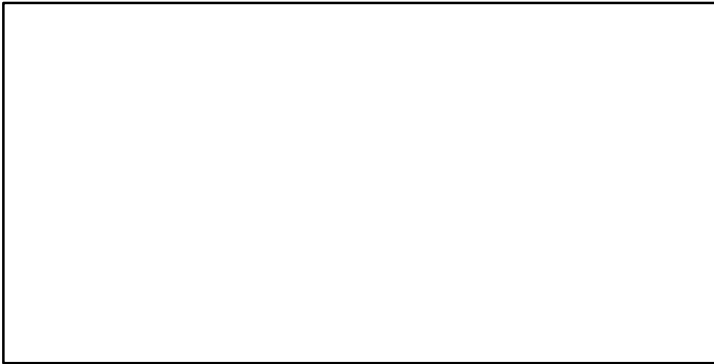
TN *

F*



ER*

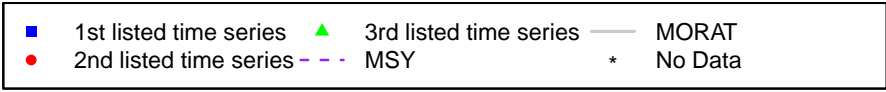
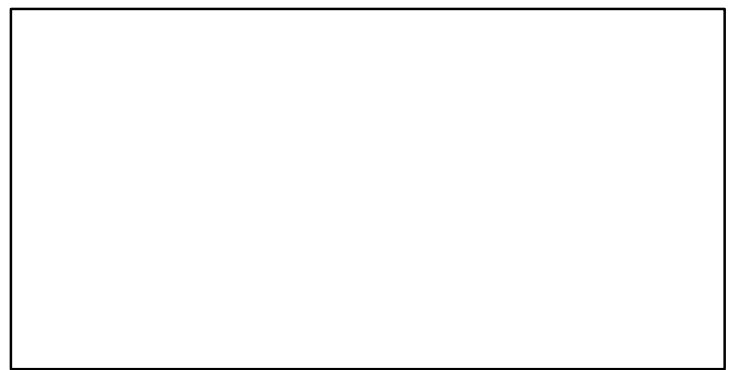
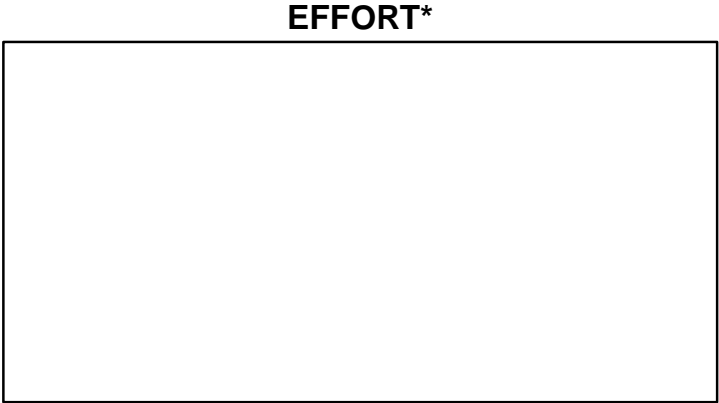
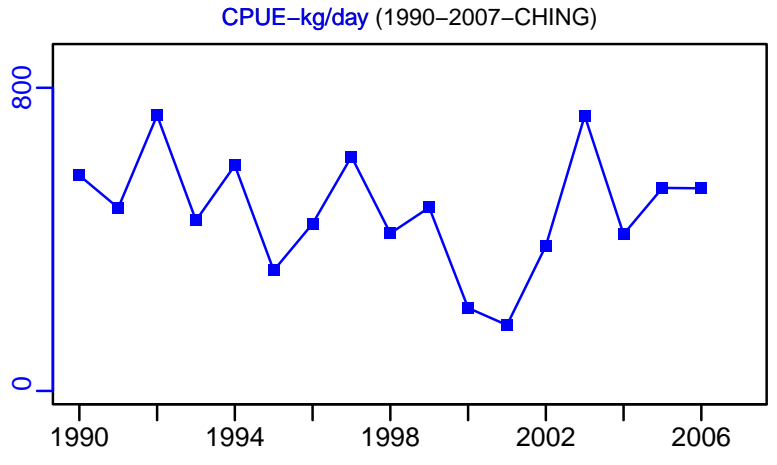
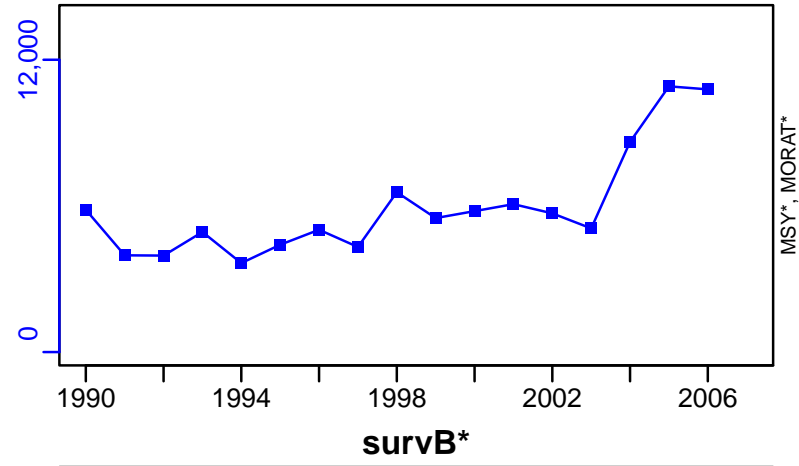
Recruits*



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

TC–MT, TL*, RecC* (1990–2007–CHING)

TAC*, Cpair*, Cadv*



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

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

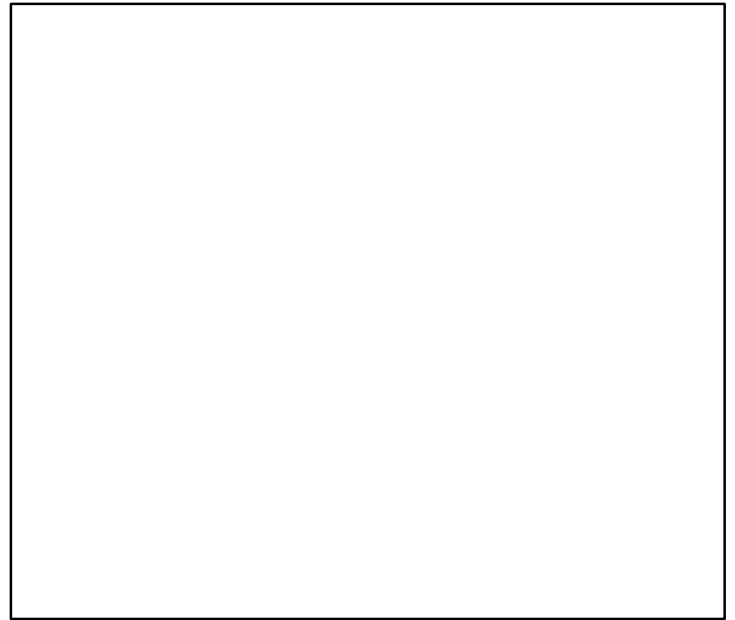
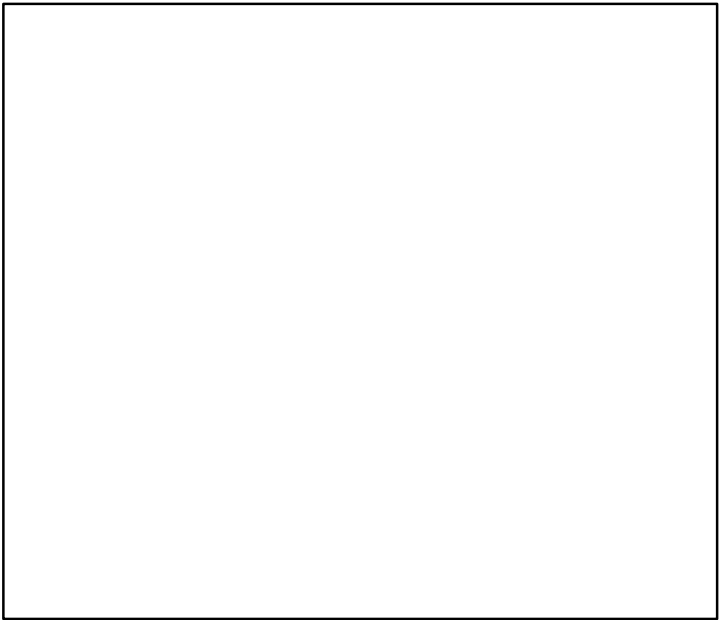
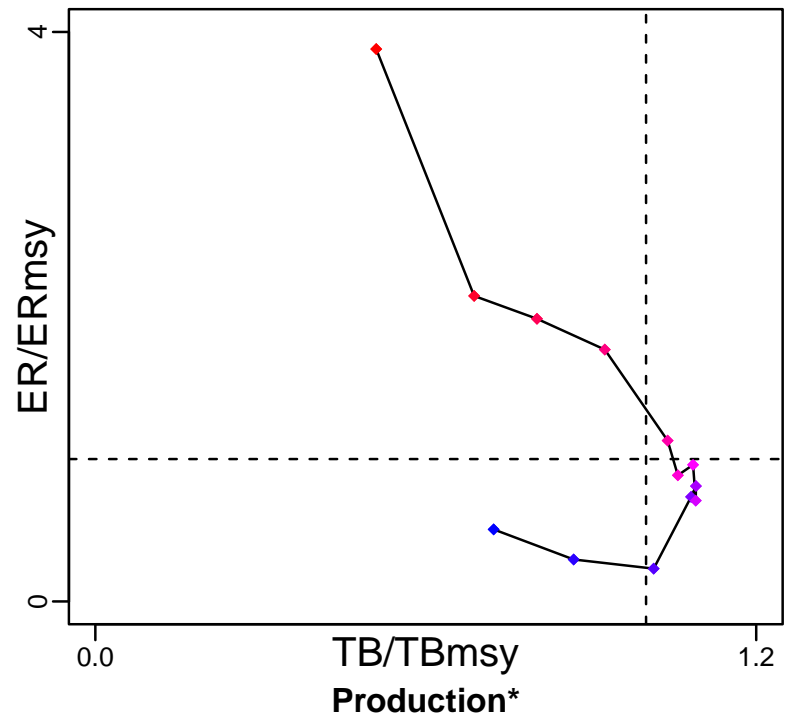
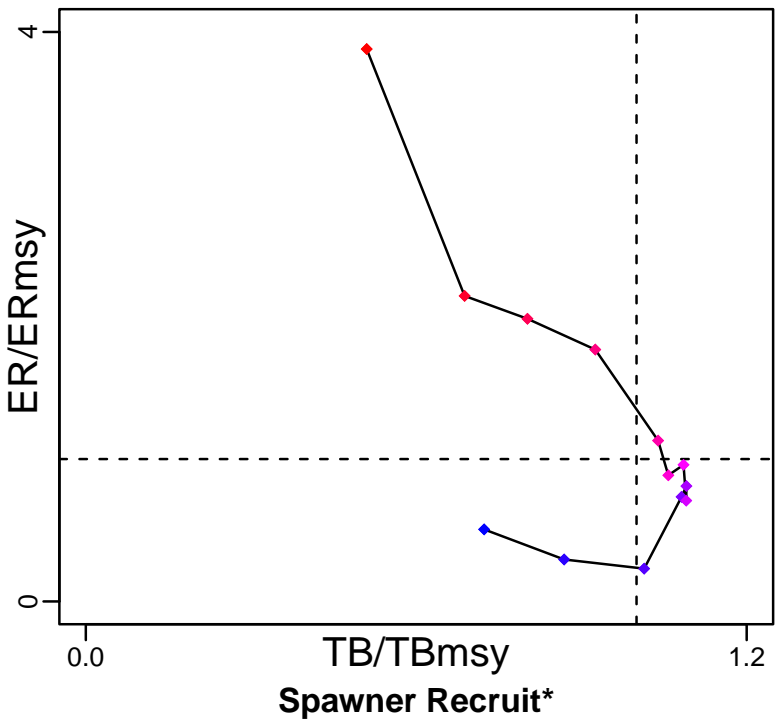
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

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

Kobe MSYpref (1995–2007–CHING)

Kobe MGTpref (1995–2007–CHING)

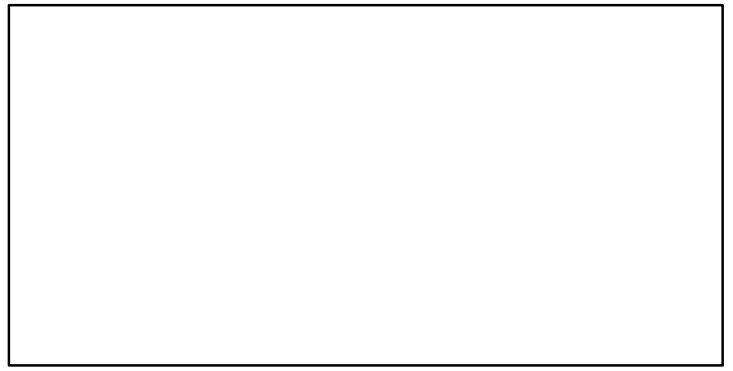
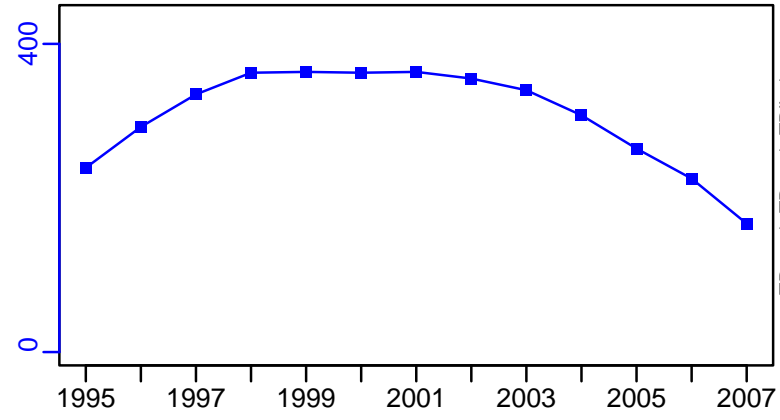


◆ Start Year ◆ End Year * No Data

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

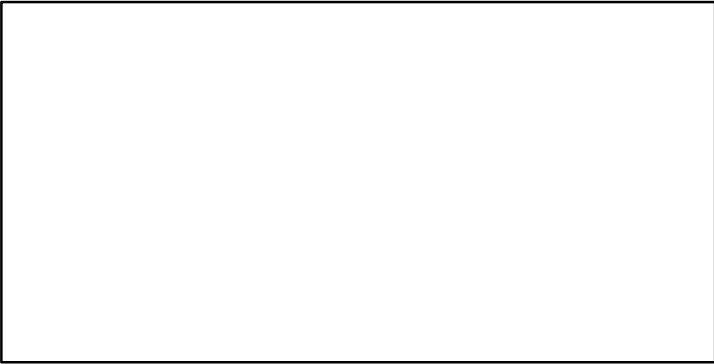
TB-index (1995–2007–CHING)

SSB*



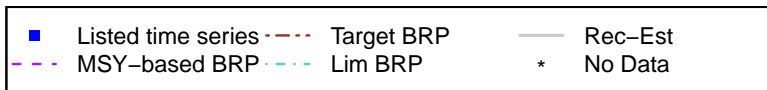
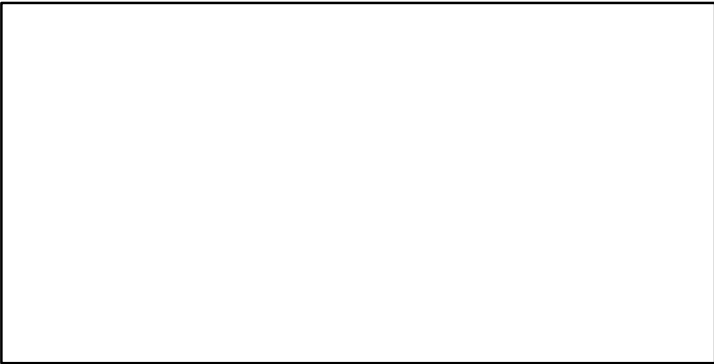
TN *

F*



ER*

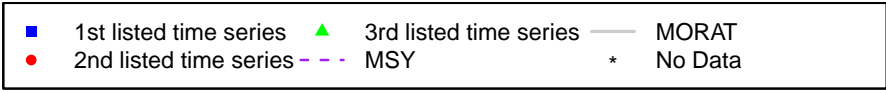
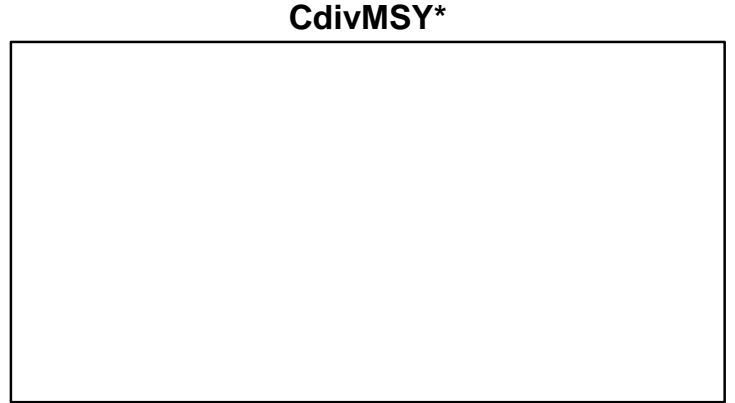
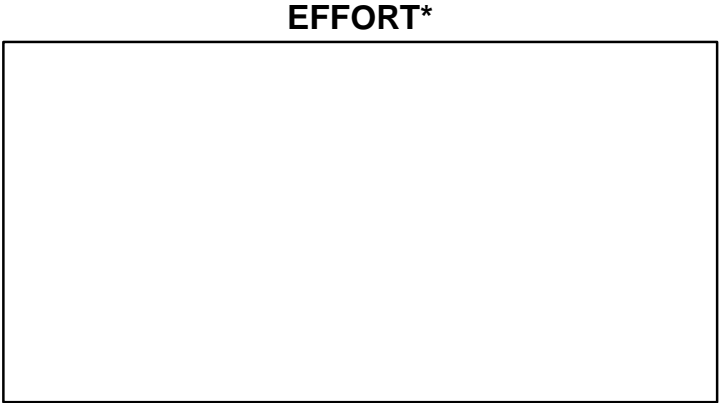
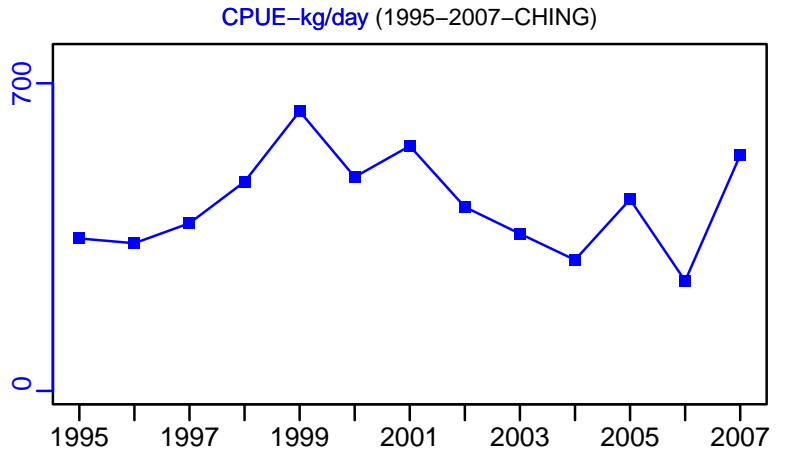
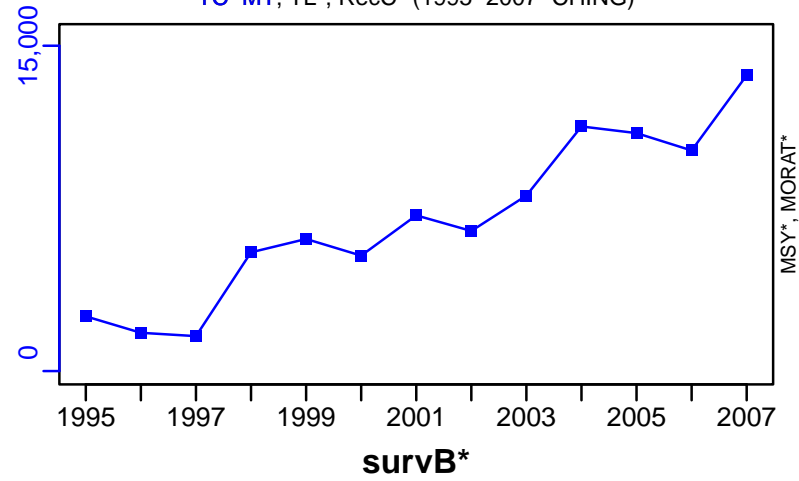
Recruits*



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

TC–MT, TL*, RecC* (1995–2007–CHING)

TAC*, Cpair*, Cadv*



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

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

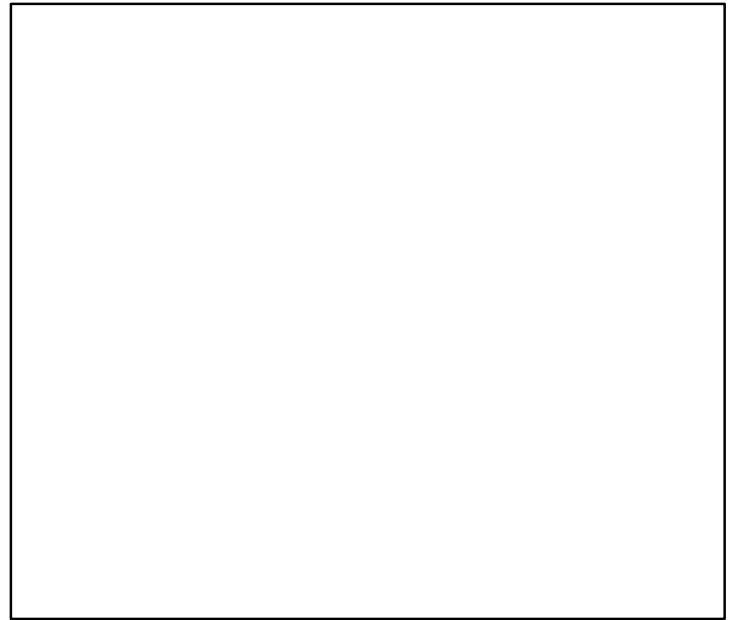
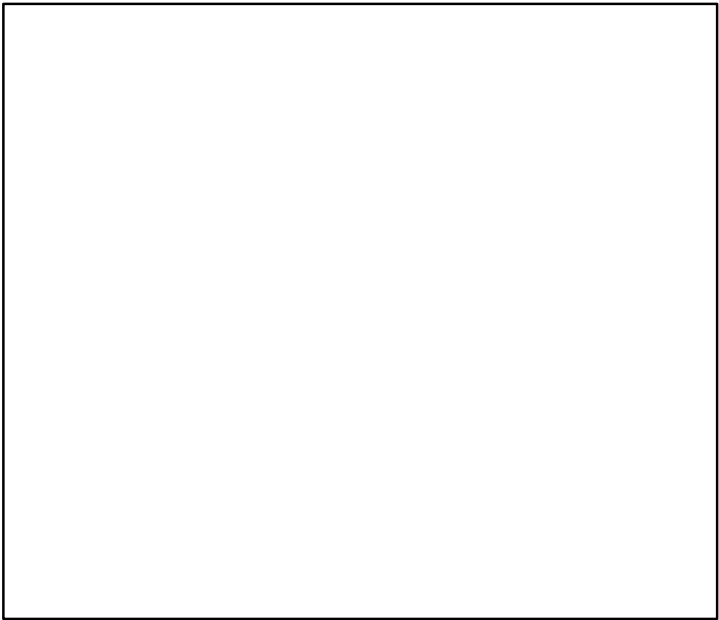
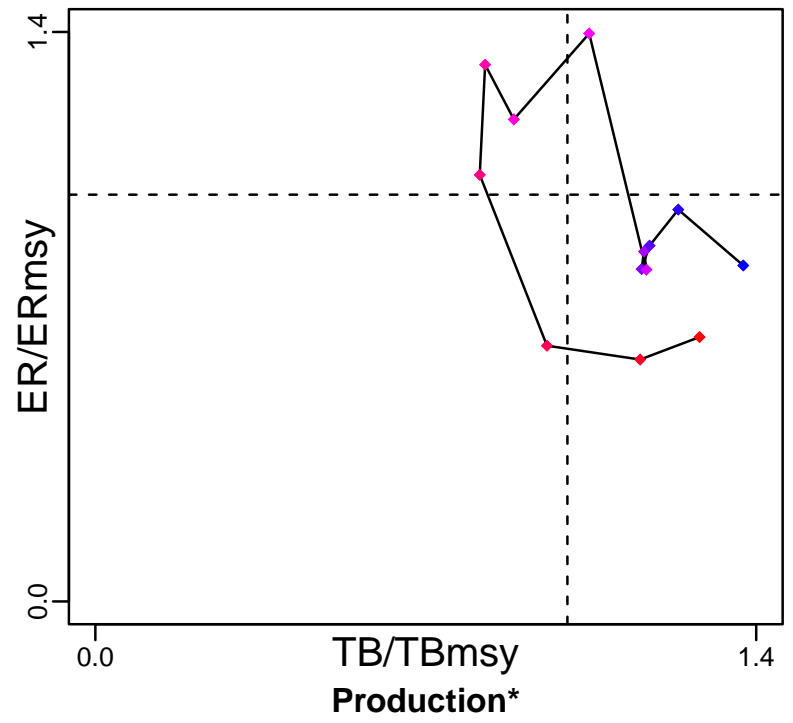
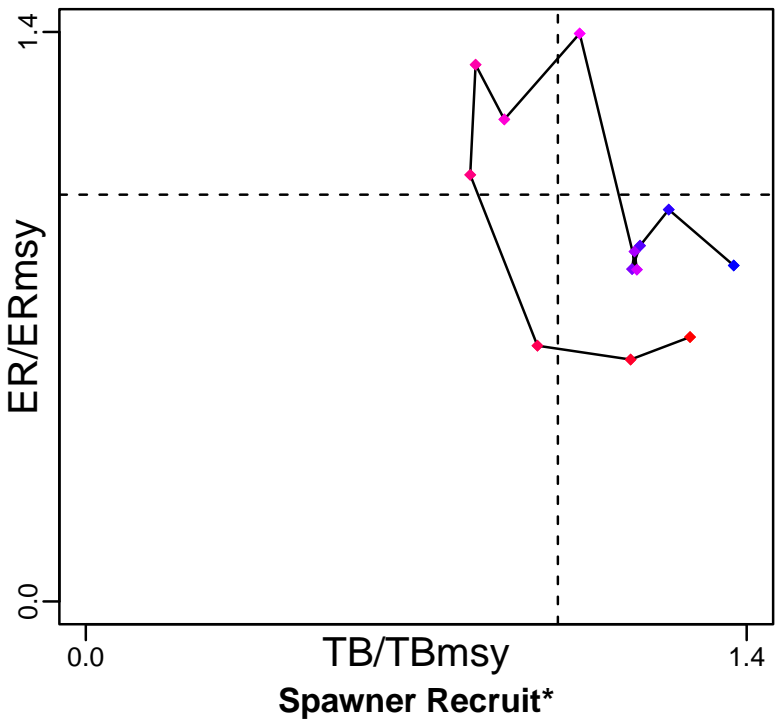
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

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

Kobe MSYpref (1994-2007-CHING)

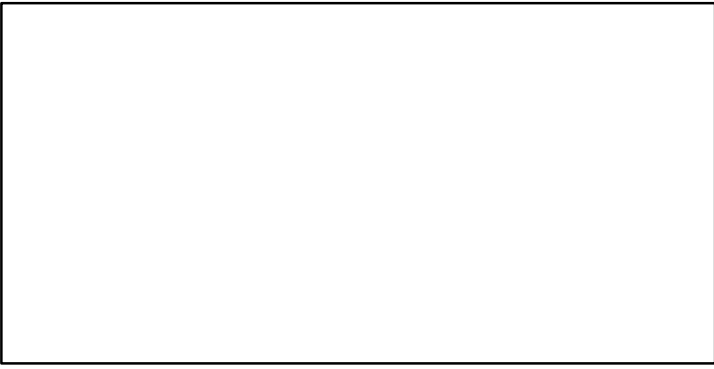
Kobe MGTpref (1994-2007-CHING)



◆ Start Year ◆ End Year * No Data

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

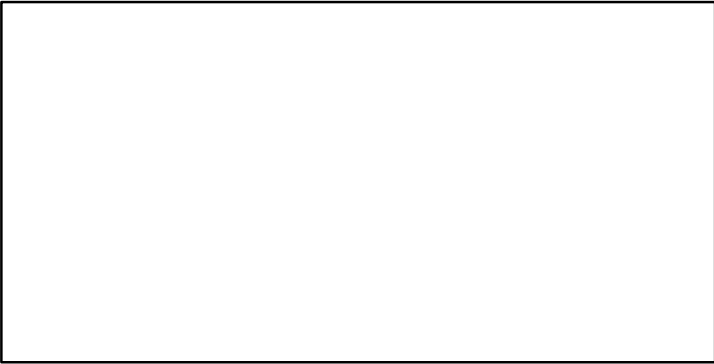
TB*



SSB*



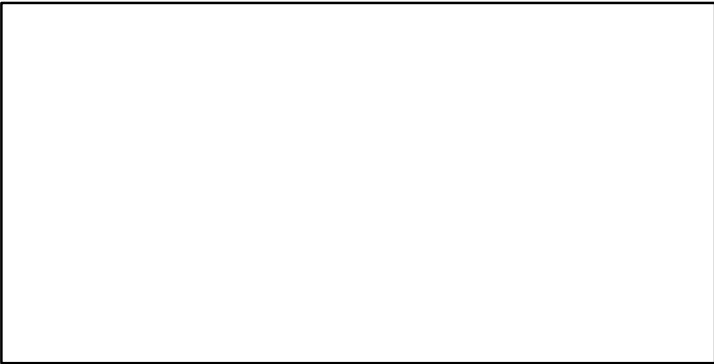
TN *



F*



ER*



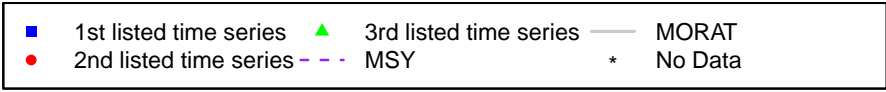
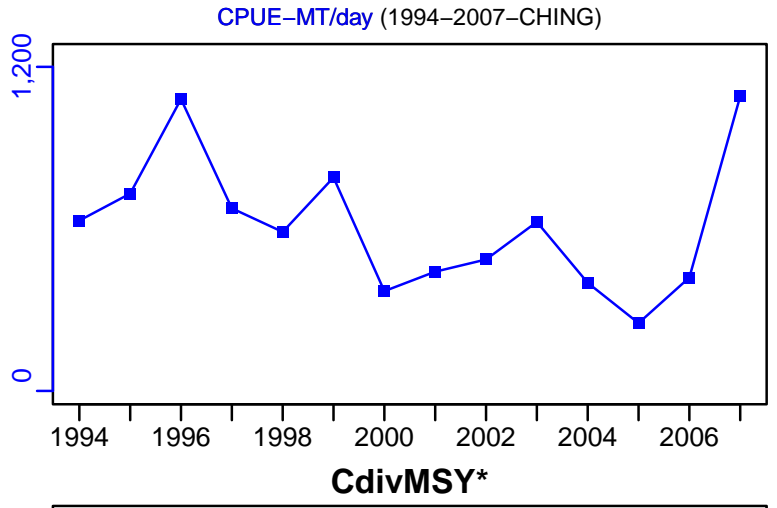
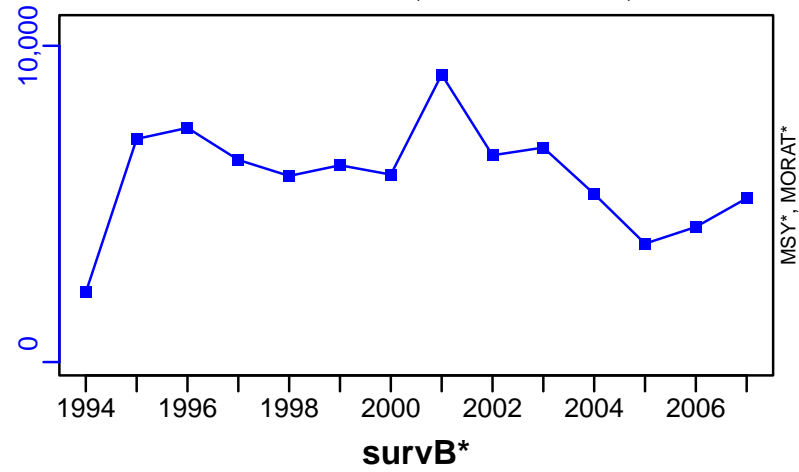
Recruits*



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

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

TAC*, Cpair*, Cadv*



Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

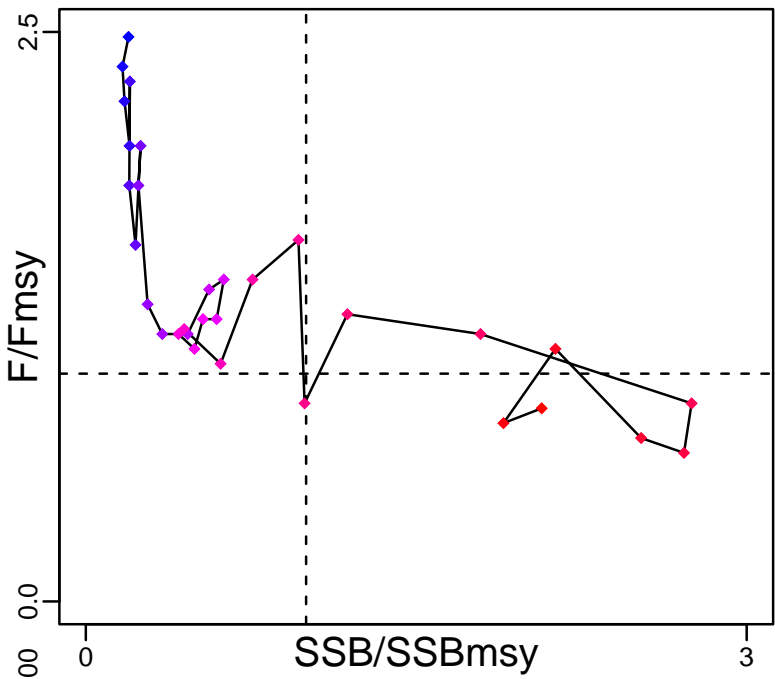
Metadata	
Scientific Name	Centropristis striata
Current Assess ID	NEFSC-BSBASSMATLC-1989-2019-SISIMP2021-2
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2015, 2007, 2011, 2018, 2019

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

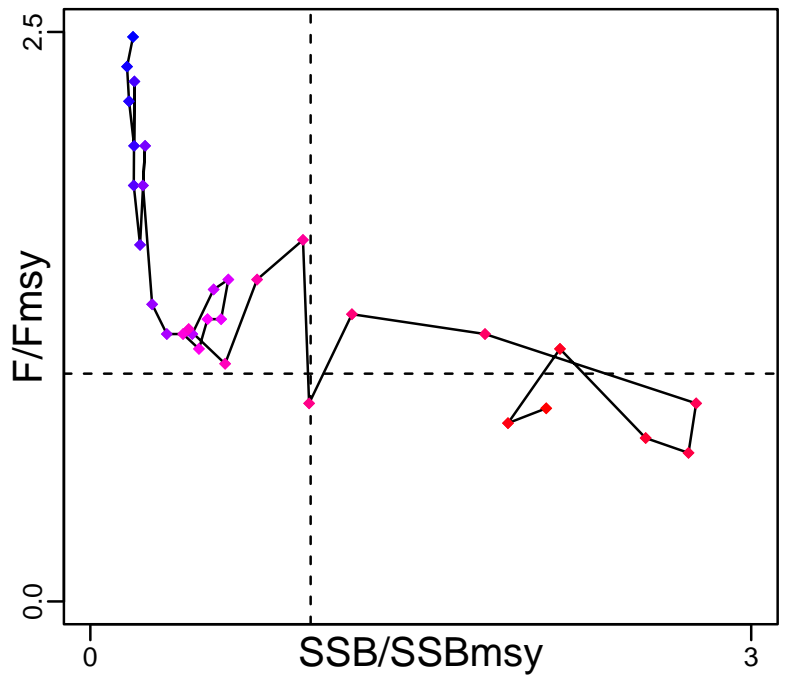
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	16,850	Both	-
SSB	SSB-MT	2019	29,800	-	-
TN	TN-E00	2015	70,334,820	Both	-
R	R-E00	2019	4.62×10^{10}	-	1
F	F-1/yr	2019	0.39	-	-
ER	ER-calc-ratio	2015	0.07	-	-
TC	TC-MT	2019	7990		
TL	TL-MT	2015	1183		
TB/TBmsy	TB-MT/TBmsy-MT	2015	0.976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

Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

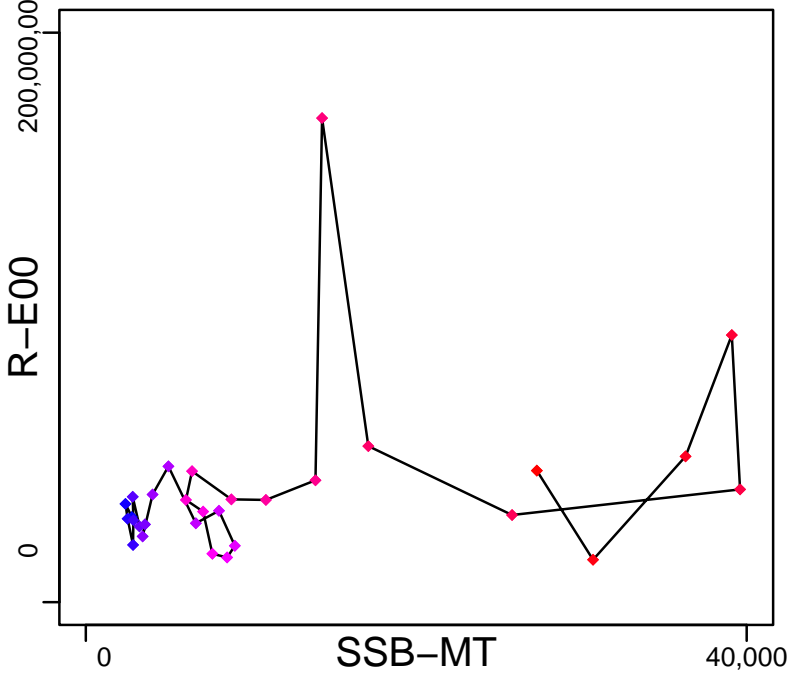
Kobe MSYpref (1989-2019-SISIMP2021-2)



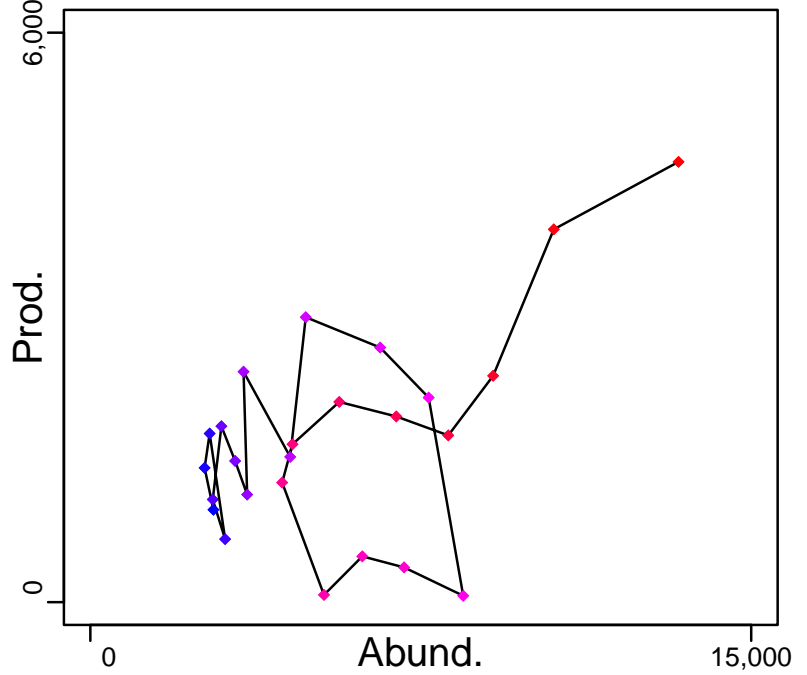
Kobe MGTpref (1989-2019-SISIMP2021-2)



Spawner Recruit (1989-2019-SISIMP2021-2)



Production (1989-2019-SISIMP2021-2)



◆ Start Year ◆ End Year * No Data

Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

TB-MT (1939-2015-ASHBROOK)

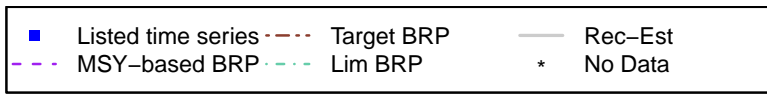
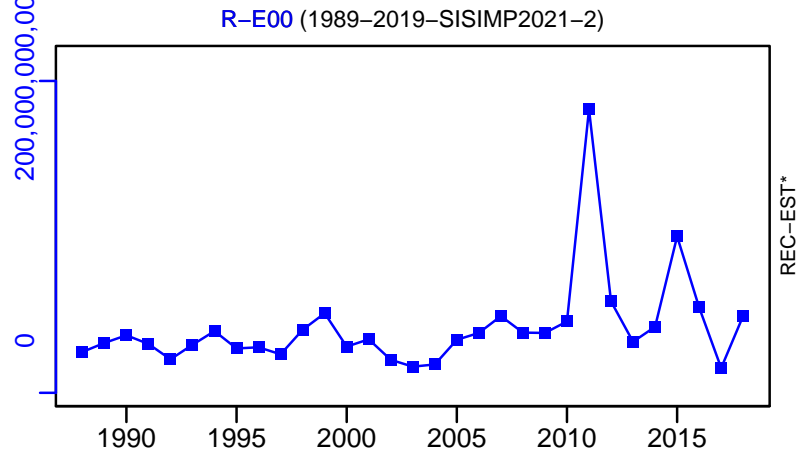
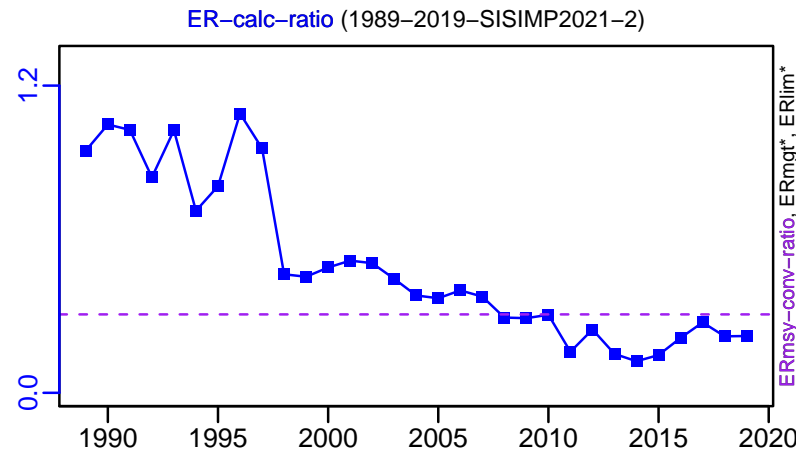
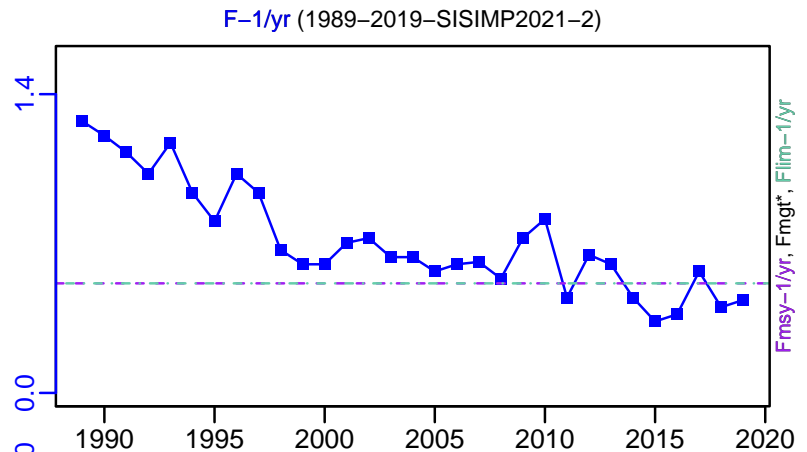
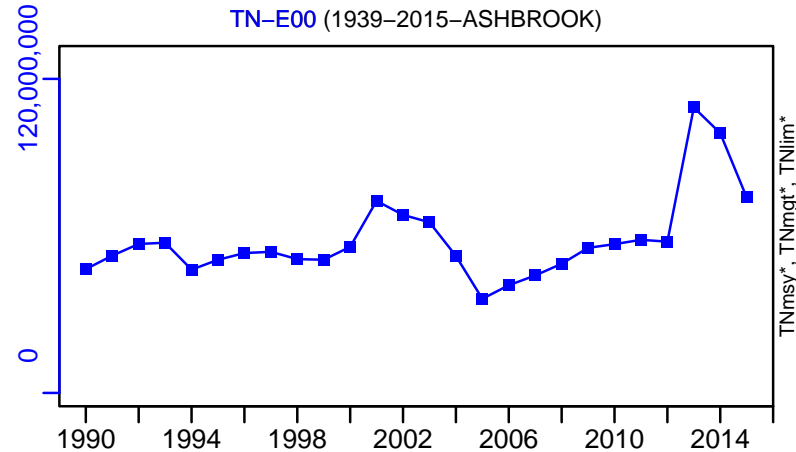
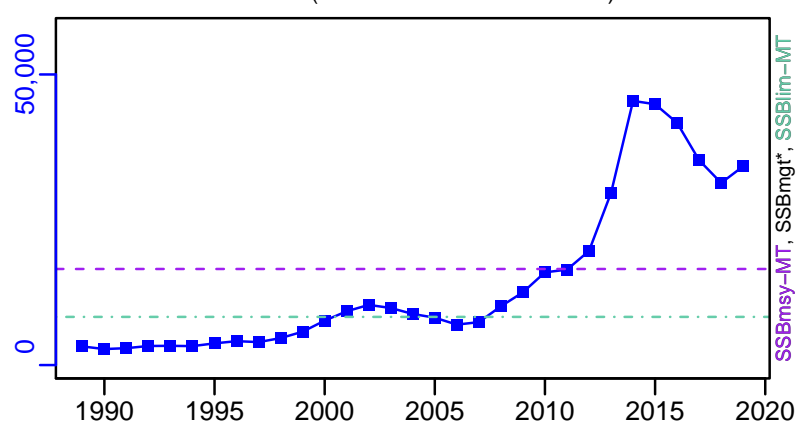
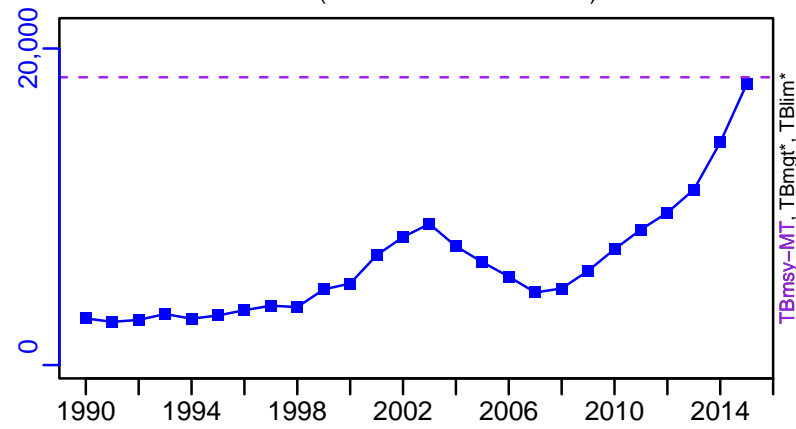
SSB-MT (1989-2019-SISIMP2021-2)

TN-E00 (1939-2015-ASHBROOK)

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

ER-calc-ratio (1989-2019-SISIMP2021-2)

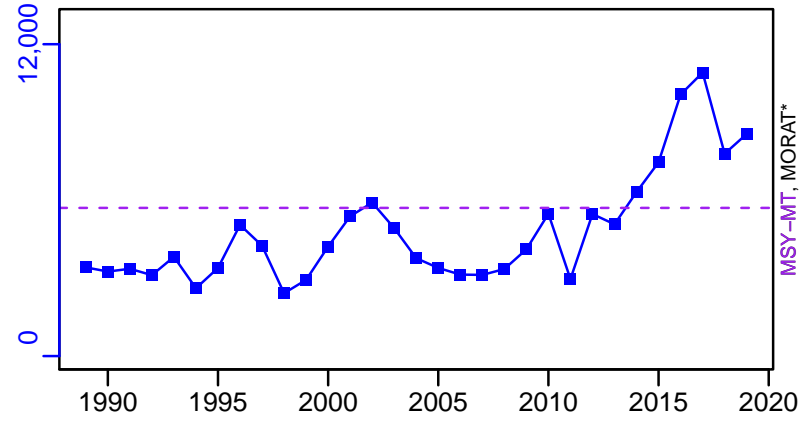
R-E00 (1989-2019-SISIMP2021-2)



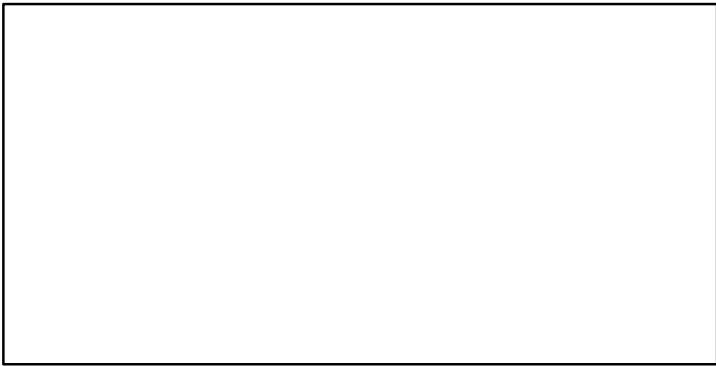
Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

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

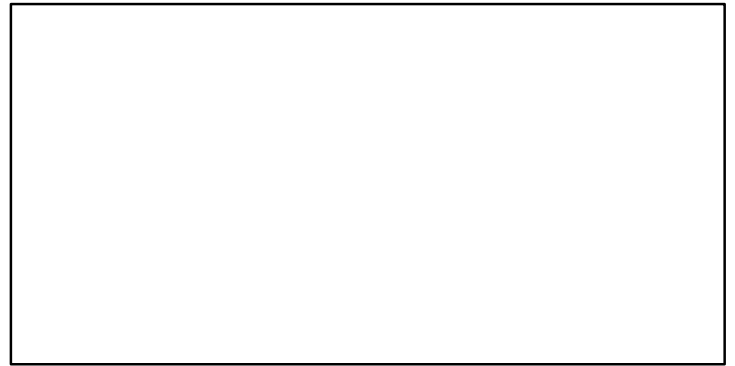
TAC*, Cpair*, Cadv*



survB*



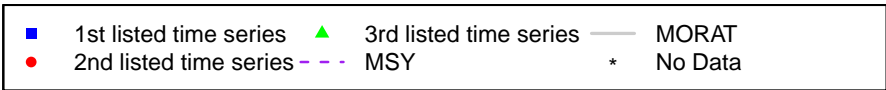
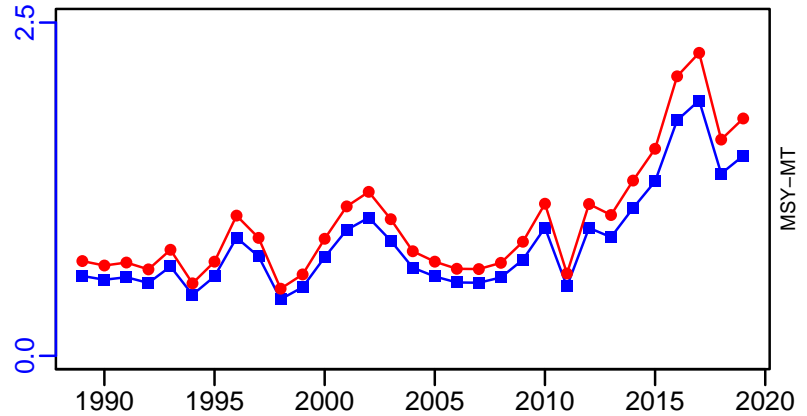
CPUE*



EFFORT*



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



Black sea bass South Atlantic [BSBASSSATL]

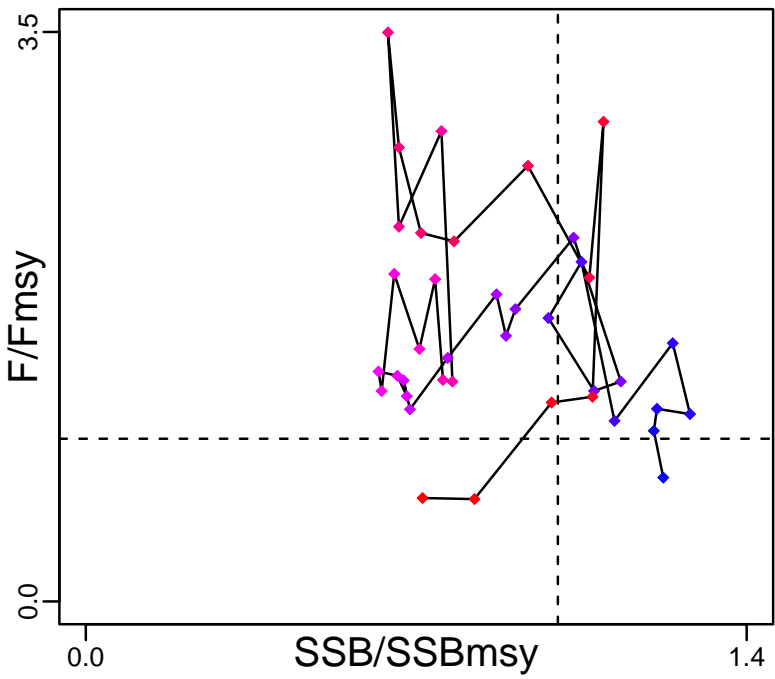
Metadata	
Scientific Name	Centropristis striata
Current Assess ID	SEFSC-BSBASSSATL-1977-2016-SISIMP2021
Area	South Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2010, 2016, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2010	5399
SSBmsy	SSBmsy-E00eggs	2016	3×10^{12}
Fmsy	Fmsy-1/yr	2016	0.31
ERmsy	ERmsy-calc-ratio	2010	0.148
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	424
M	M-1/yr	2010	0.38
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2016	1.859×10^{12}
Flim	Flim-1/yr	2016	0.31
ERlim	-	-	-

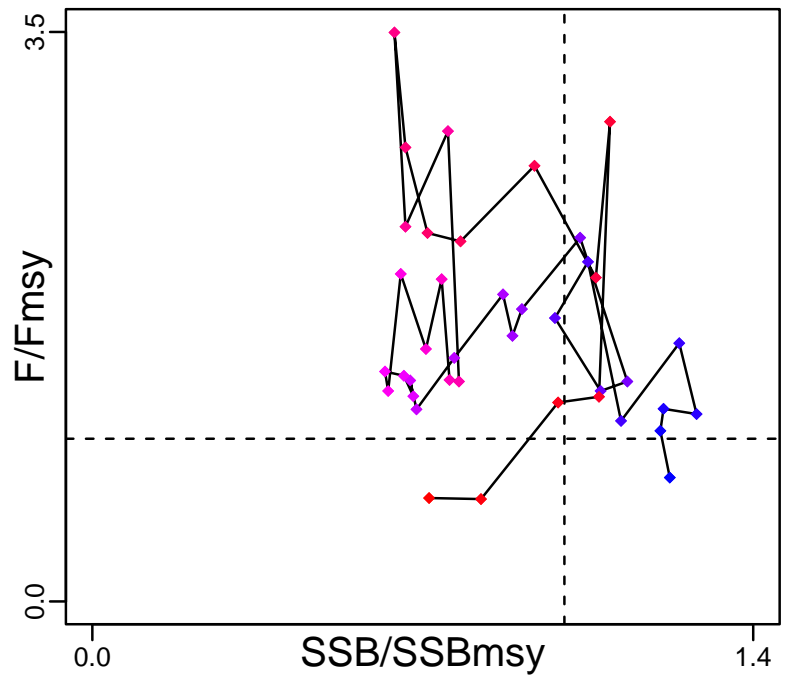
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	3800	-	-
SSB	SSB-E00eggs	2016	2.14×10^{12}	-	-
TN	-	-	-	-	-
R	R-E00	2016	20,625,990	-	1
F	F-1/yr	2016	0.197	-	-
ER	ER-calc-ratio	2010	0.154	-	-
TC	TC-MT	2016	262		
TL	TL-MT	2010	585		
TB/TBmsy	TB-MT/TBmsy-MT	2010	0.704		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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

Black sea bass South Atlantic [BSBASSATL]

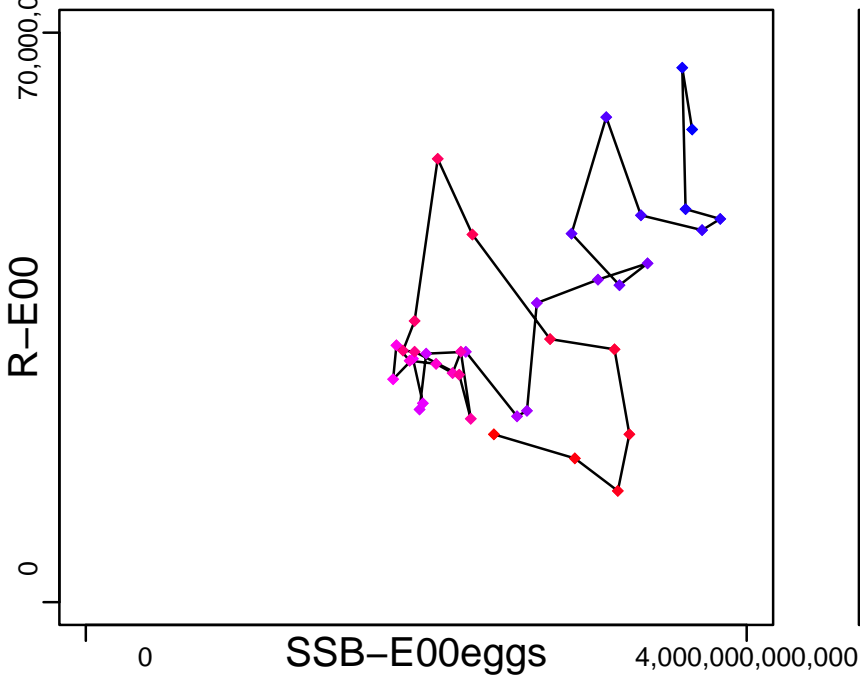
Kobe MSYpref (1977-2016-SISIMP2021)



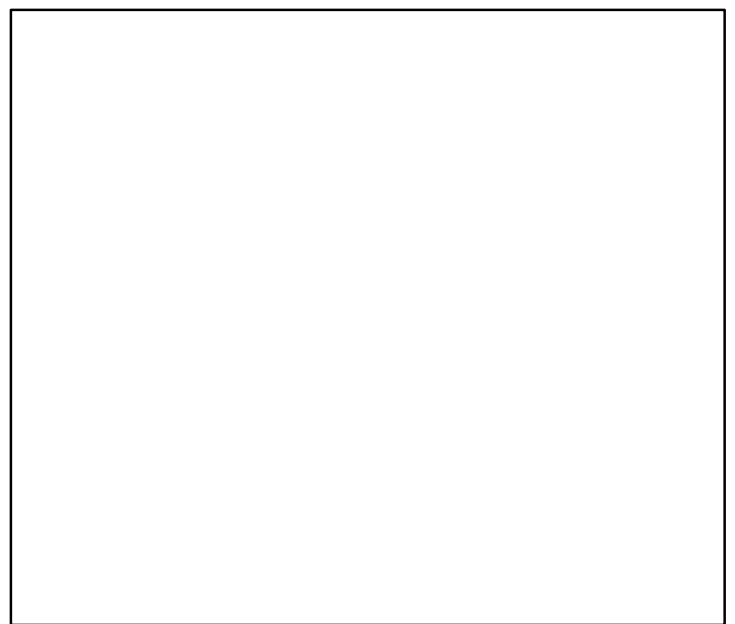
Kobe MGTpref (1977-2016-SISIMP2021)



Spawner Recruit (1977-2016-SISIMP2021)



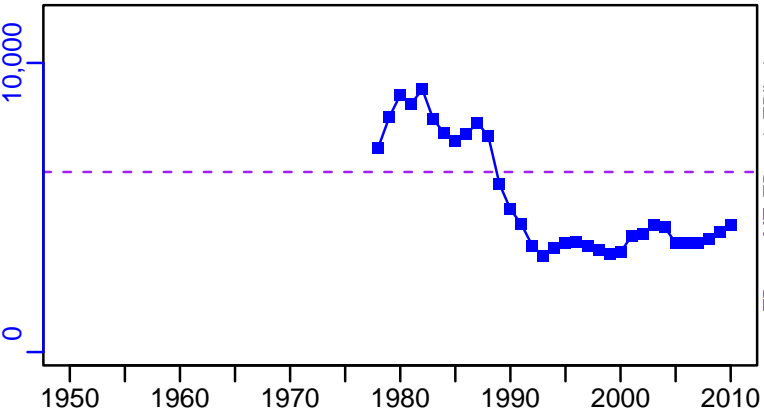
Production*



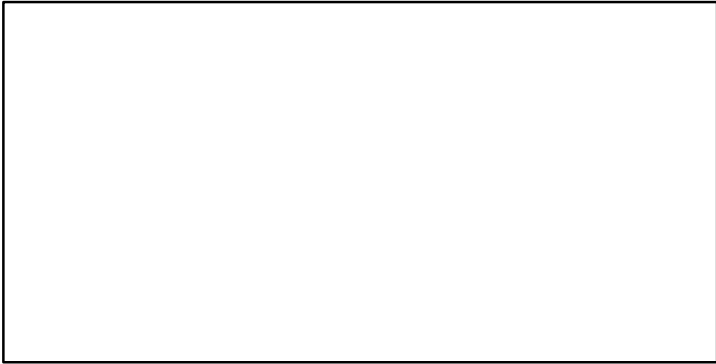
◆ Start Year ◆ End Year * No Data

Black sea bass South Atlantic [BSBASSSATL]

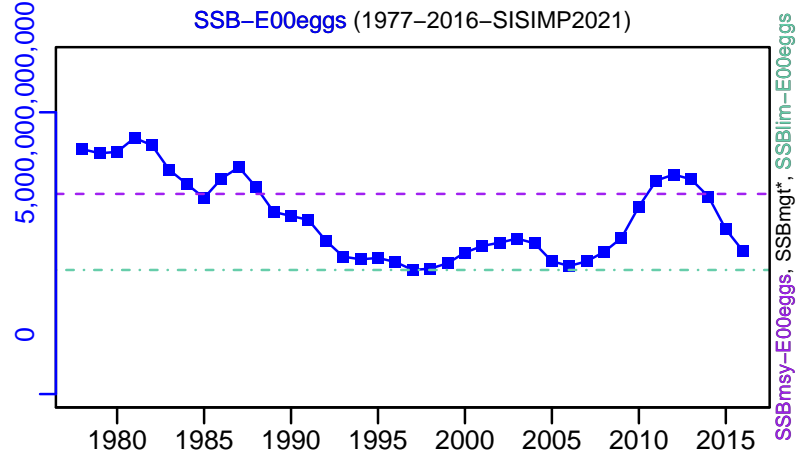
TB-MT (1950-2010-HIVELY)



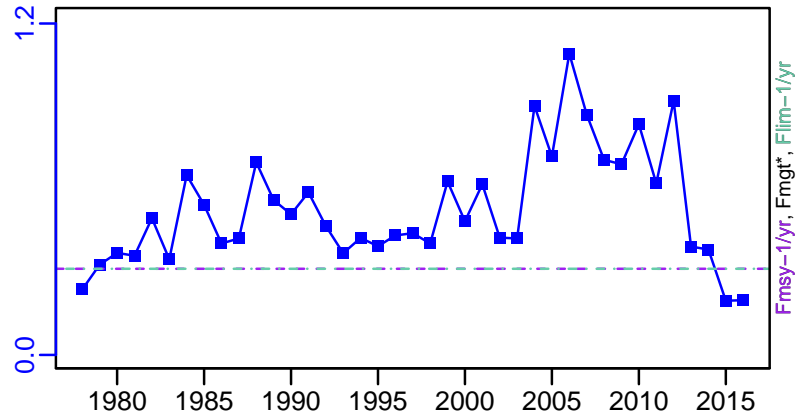
TN *



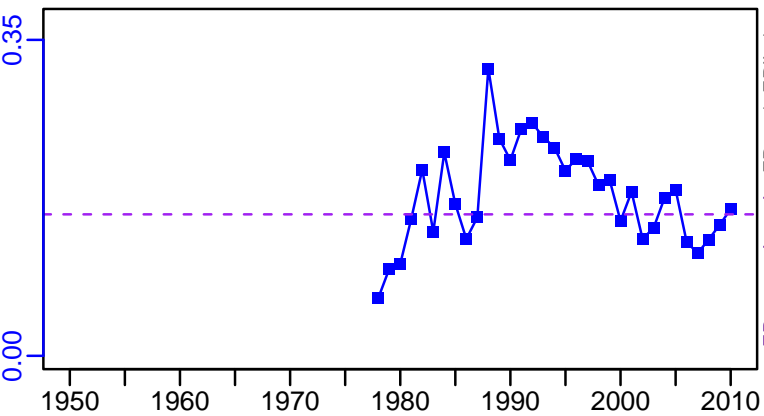
SSB-E00eggs (1977-2016-SISIMP2021)



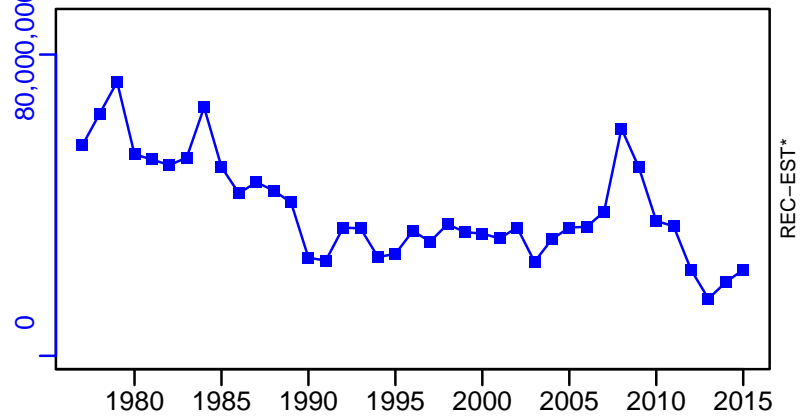
F-1/yr (1977-2016-SISIMP2021)



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



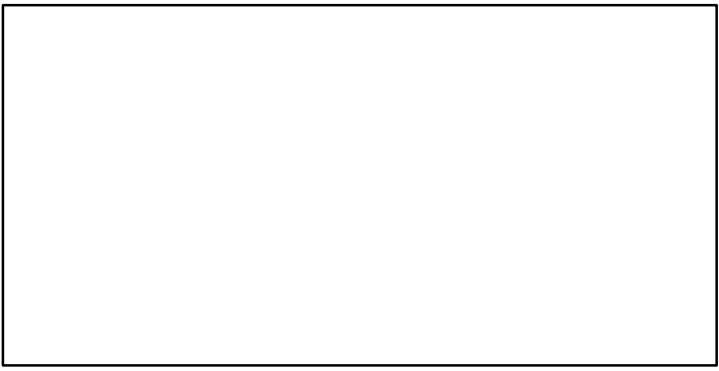
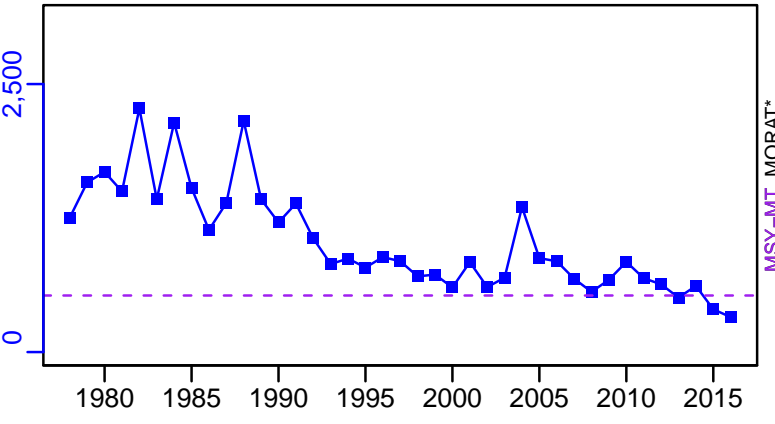
R-E00 (1977-2016-SISIMP2021)



Black sea bass South Atlantic [BSBASSATL]

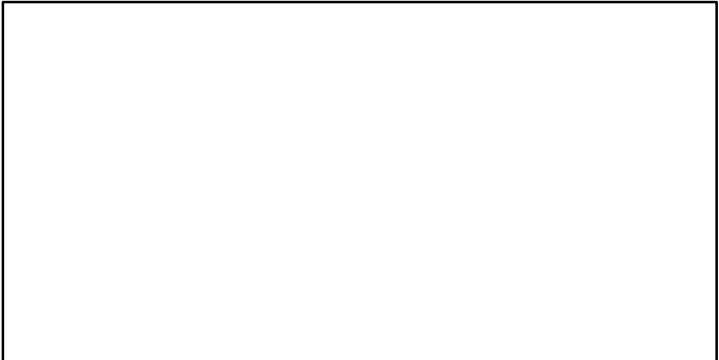
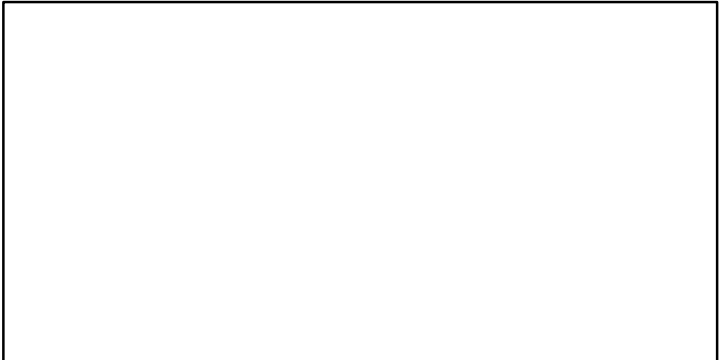
TC-MT, TL*, RecC* (1977-2016-SISIMP2021)

TAC*, Cpair*, Cadv*



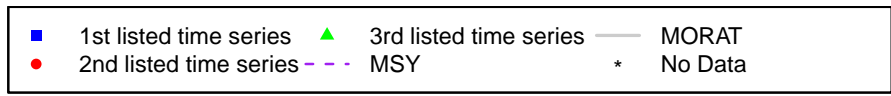
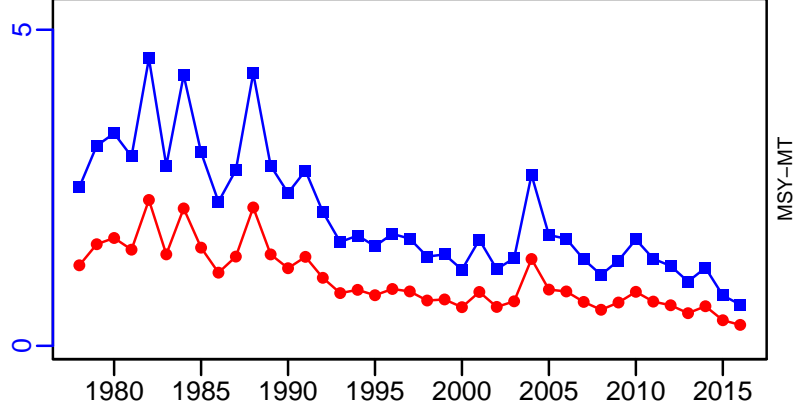
survB*

CPUE*



EFFORT*

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



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

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

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

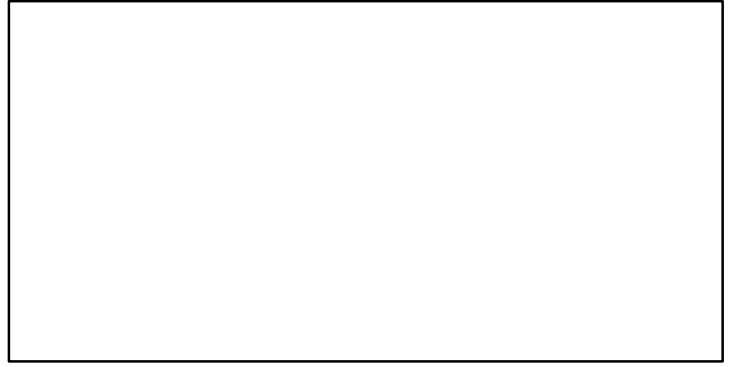
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	11,672	-	-
TL	-	-	-	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	-	-	-	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-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

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

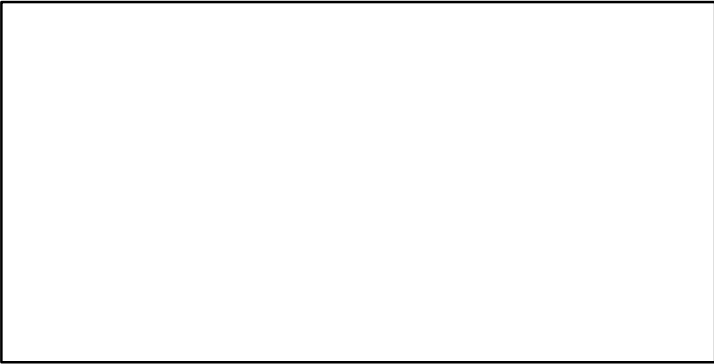
TB*



SSB*



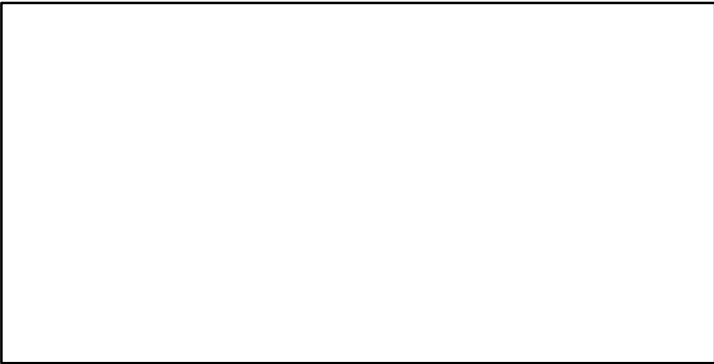
TN *



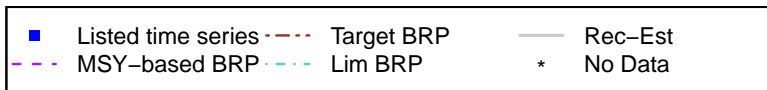
F*



ER*



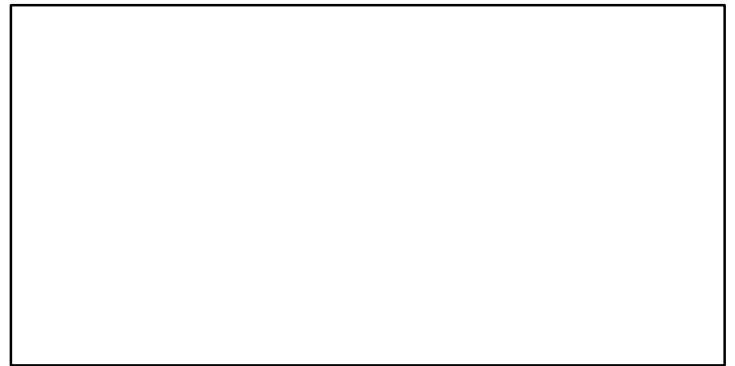
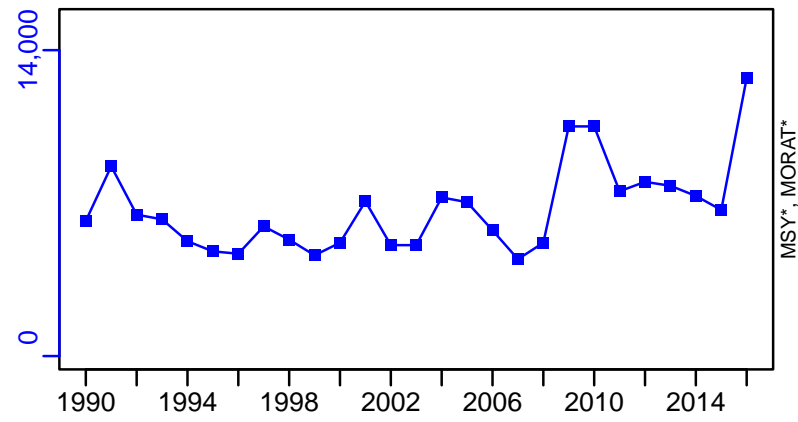
Recruits*



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

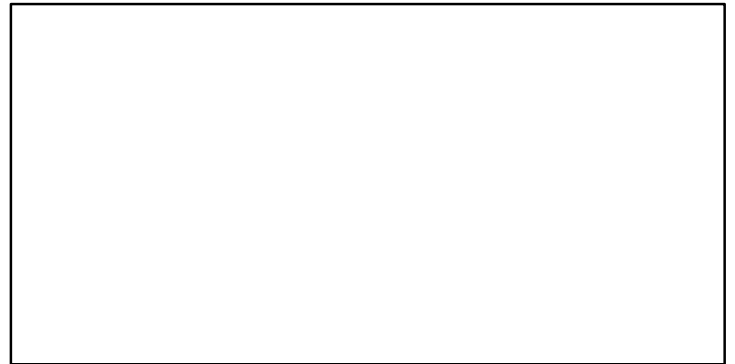
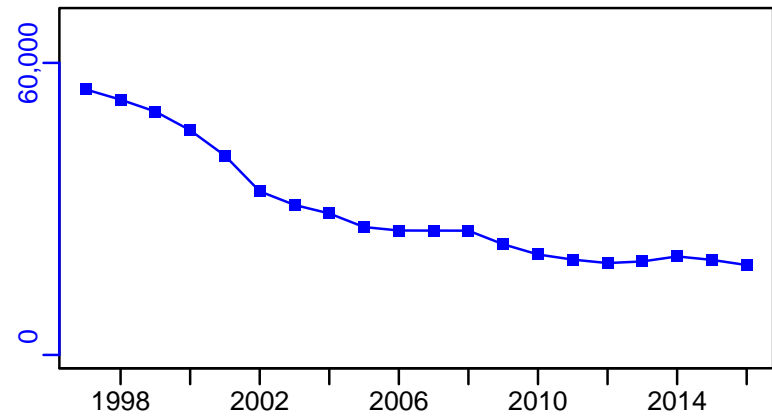
TC–MT, TL*, RecC* (1990–2016–ASHBROOK)

TAC*, Cpair*, Cadv*



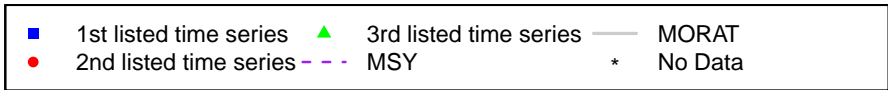
survB_index–index (1990–2016–ASHBROOK)

CPUE*



EFFORT*

CdivMSY*



Crimson jobfish Main Hawaiian Islands [CJOBMHI]

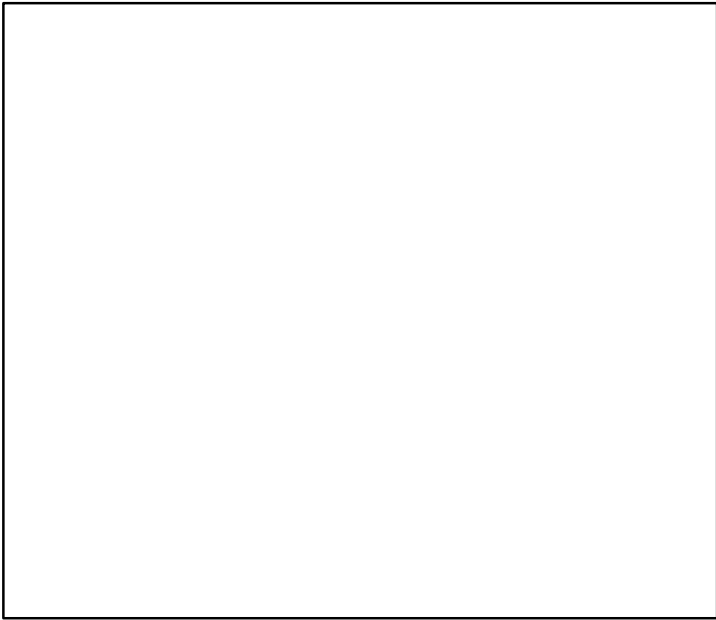
Metadata	
Scientific Name	Pristipomoides filamentosus
Current Assess ID	PIFSC-CJOBMHI-1949-2016-SISIMP2021
Area	Main Hawaiian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fisheries Science Center
Asmts in RAM	2016

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	-	-	-

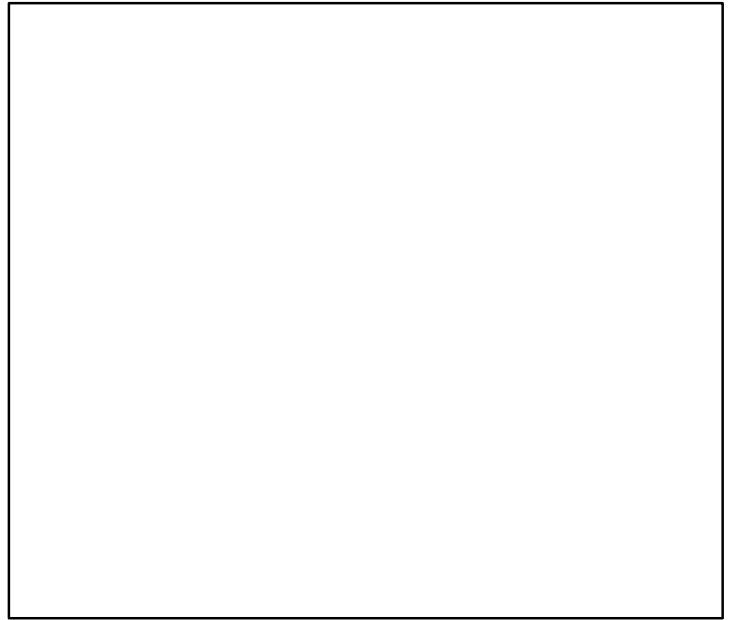
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	190		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Crimson jobfish Main Hawaiian Islands [CJOBMHI]

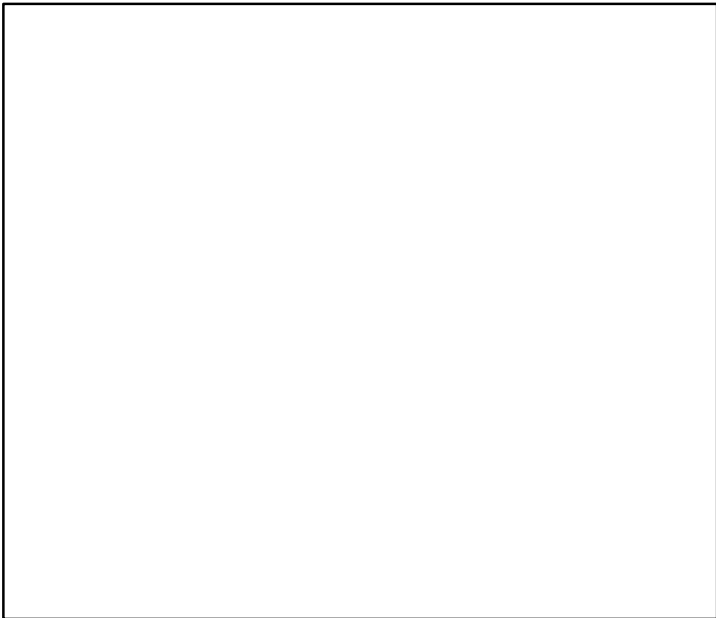
Kobe MSY*



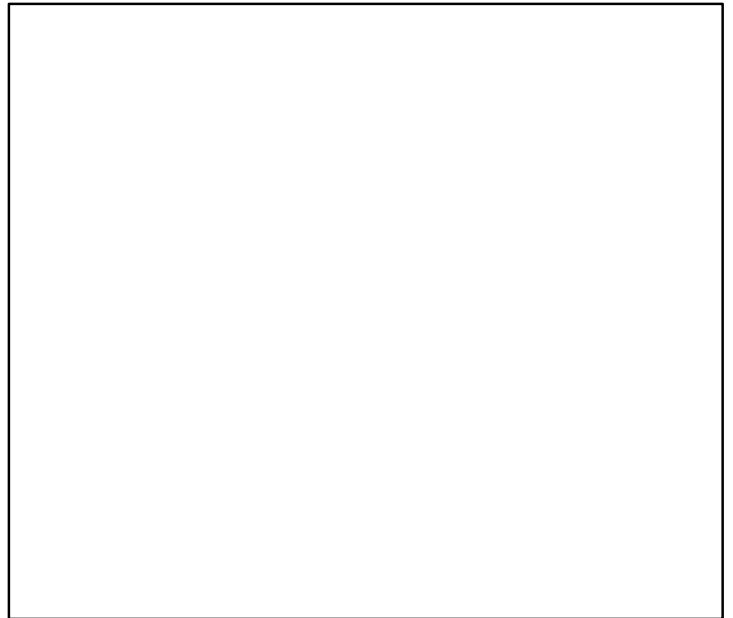
Kobe MGT*



Spawner Recruit*



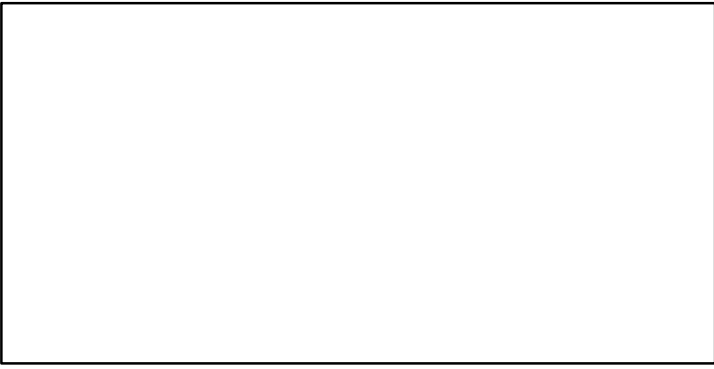
Production*



◆ Start Year ◆ End Year * No Data

Crimson jobfish Main Hawaiian Islands [CJOBMHI]

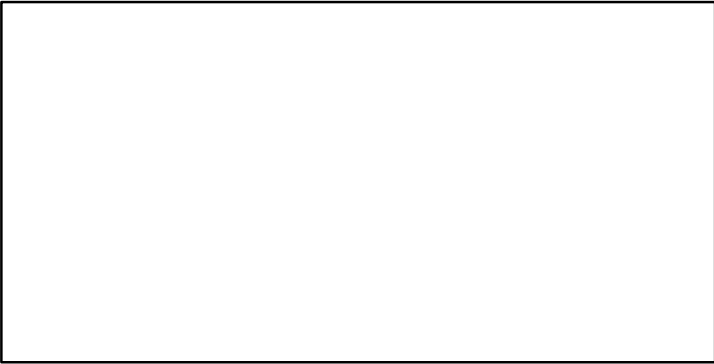
TB*



SSB*



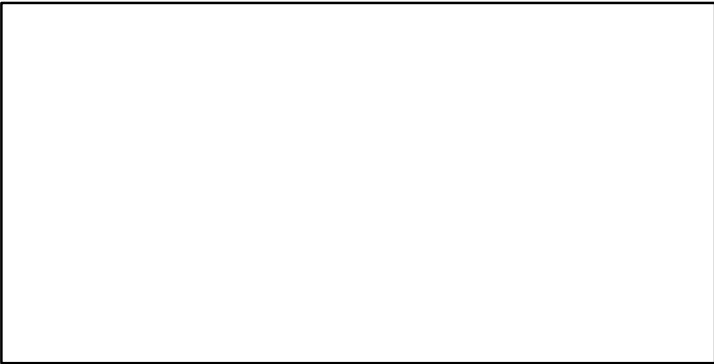
TN *



F*



ER*



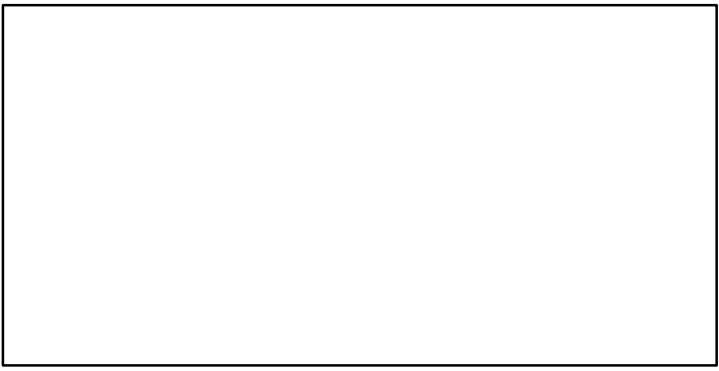
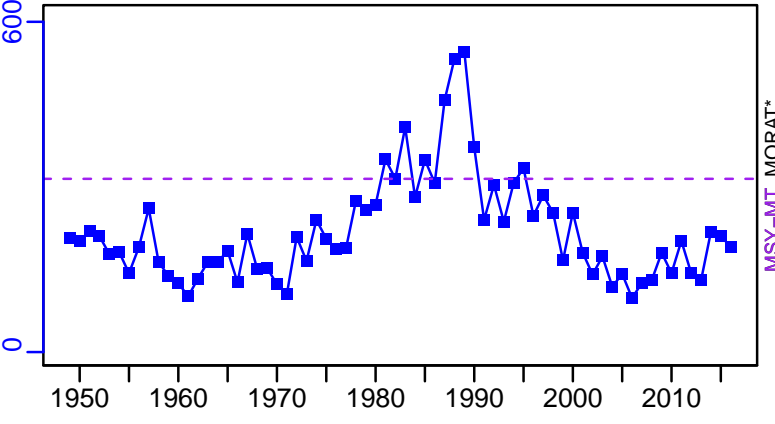
Recruits*



Crimson jobfish Main Hawaiian Islands [CJOBMHI]

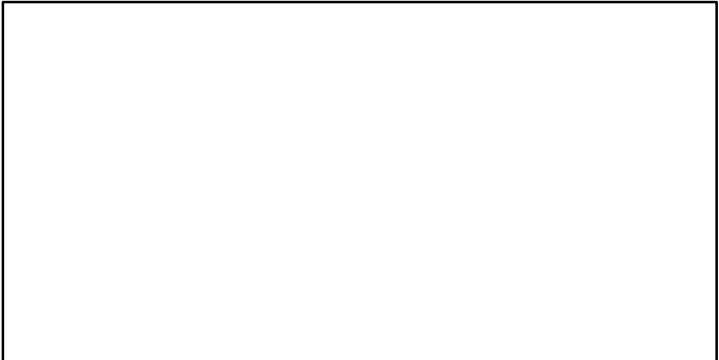
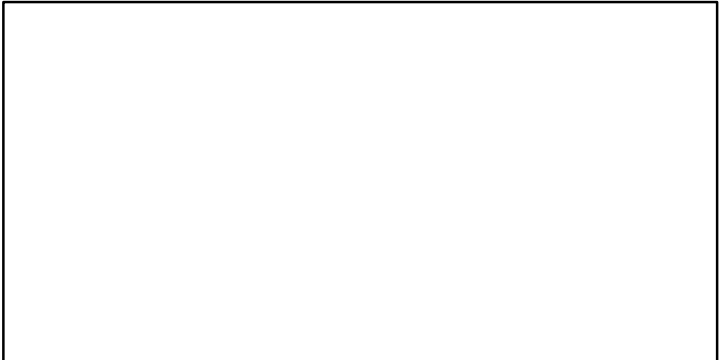
TC-MT, TL*, RecC* (1949-2016-SISIMP2021)

TAC*, Cpair*, Cadv*



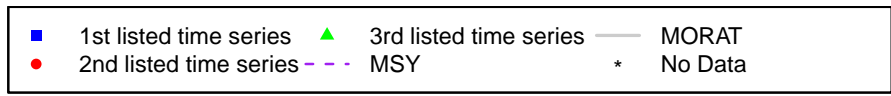
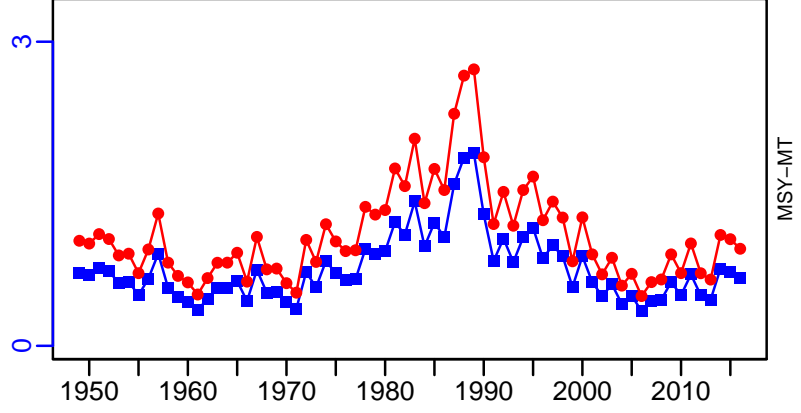
survB*

CPUE*



EFFORT*

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



Crimson jobfish Okinawa Islands [CJOBOKWI]

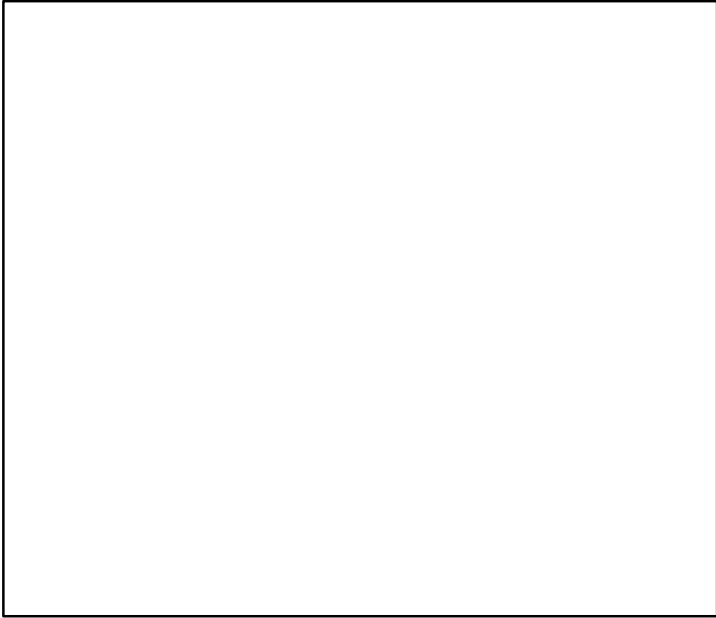
Metadata	
Scientific Name	Pristipomoides filamentosus
Current Assess ID	FAFRFJ-CJOBOKWI-1989-2013-JPNIMP2016
Area	Okinawa Islands
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

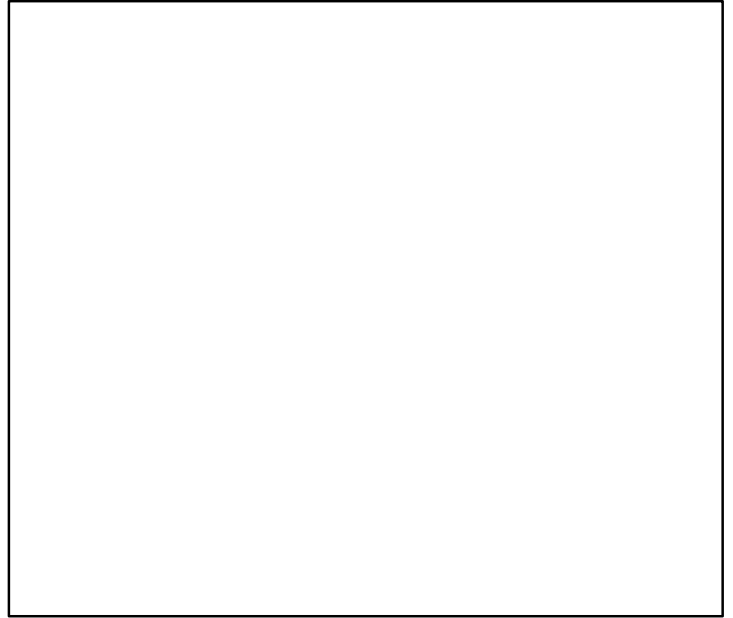
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	25		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Crimson jobfish Okinawa Islands [CJOBOKWI]

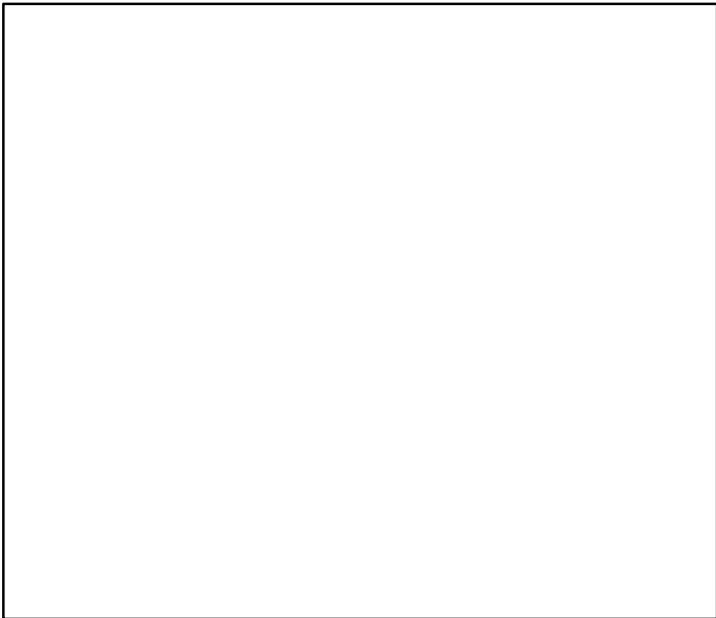
Kobe MSY*



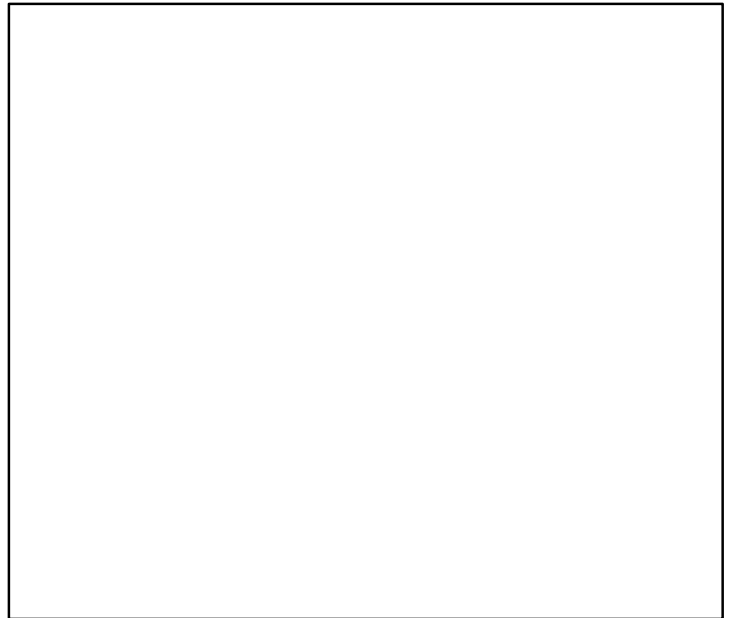
Kobe MGT*



Spawner Recruit*



Production*



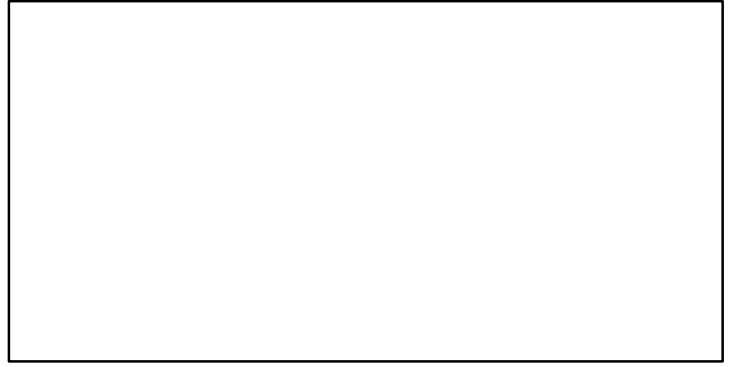
◆ Start Year ◆ End Year * No Data

Crimson jobfish Okinawa Islands [CJOBOKWI]

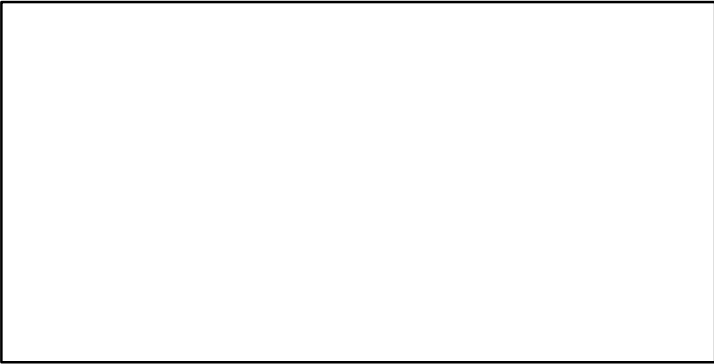
TB*



SSB*



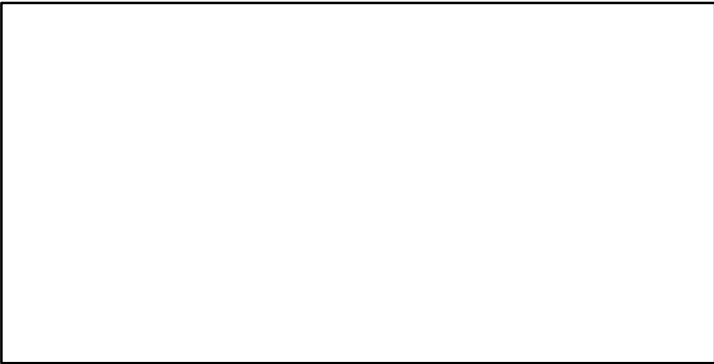
TN *



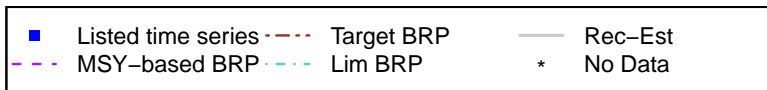
F*



ER*



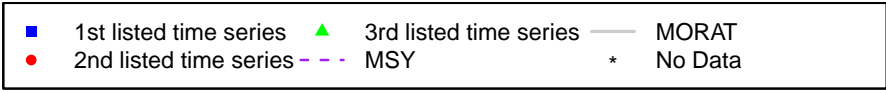
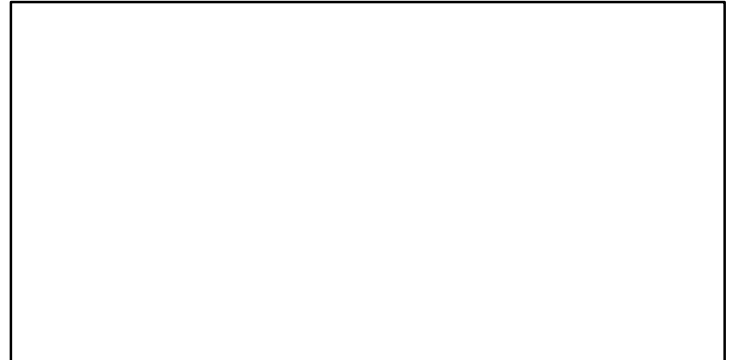
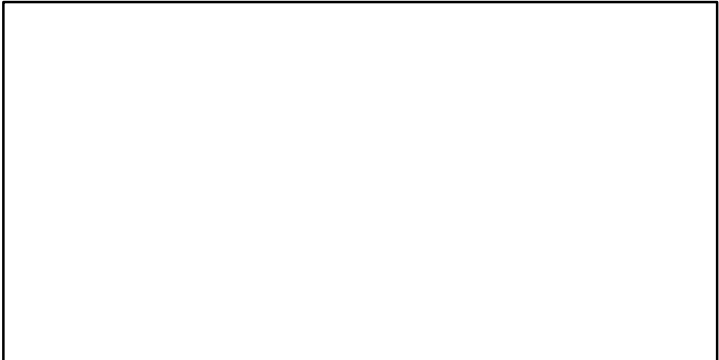
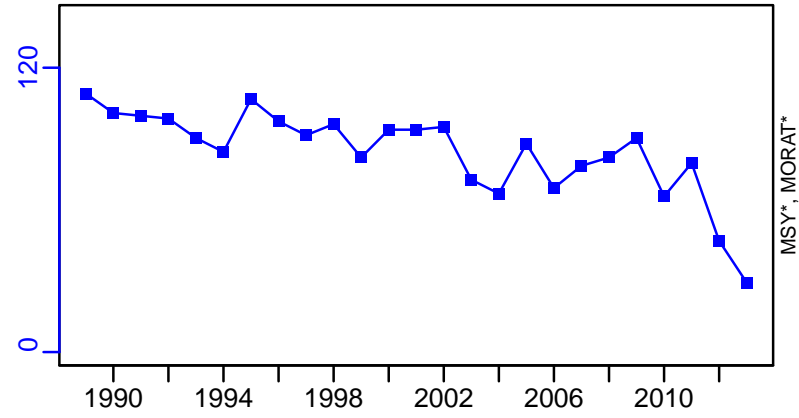
Recruits*



Crimson jobfish Okinawa Islands [CJOBOKWI]

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

TAC*, Cpair*, Cadv*



Cobia Gulf of Mexico [COBGM]

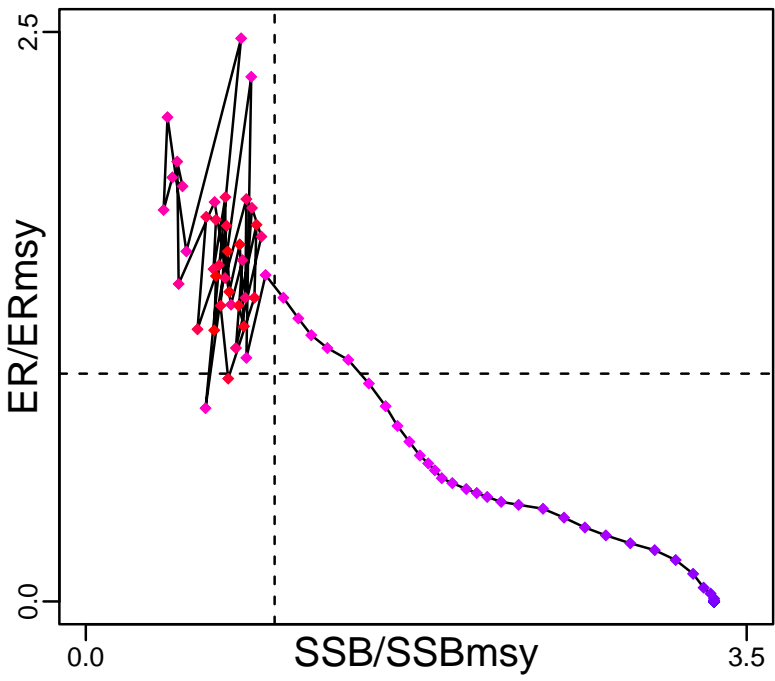
Metadata	
Scientific Name	Rachycentron canadum
Current Assess ID	SEFSC-COBGM-1927-2018-SISIMP2021-2
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2011, 2018

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

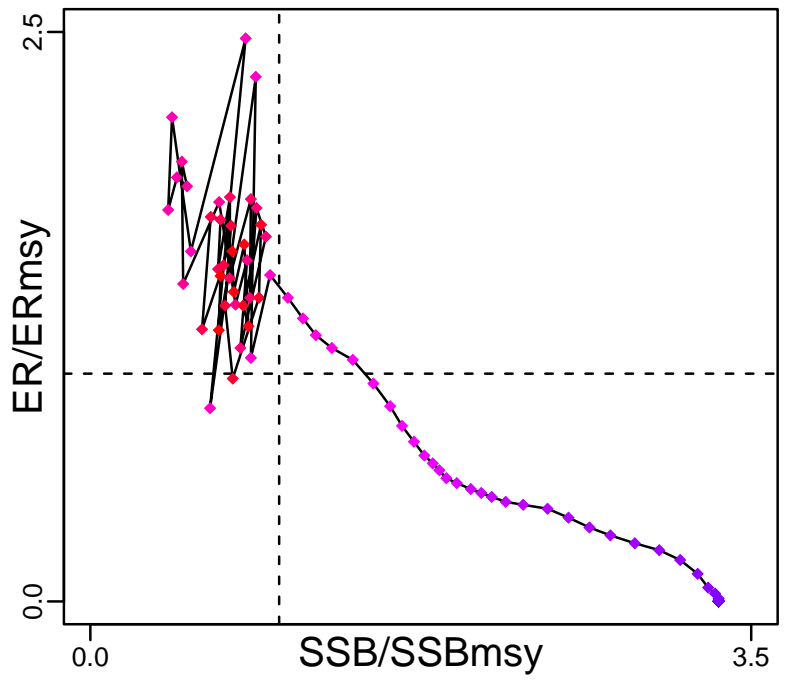
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	3020	-	1+
SSB	SSB-MT	2018	3730	-	-
TN	-	-	-	-	-
R	R-E00	2018	1,300,000	-	0
F	F-1/yr	2011	0.676	-	-
ER	ER-ratio	2018	0.33	-	-
TC	TC-MT	2018	1870		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.689		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Cobia Gulf of Mexico [COBGM]

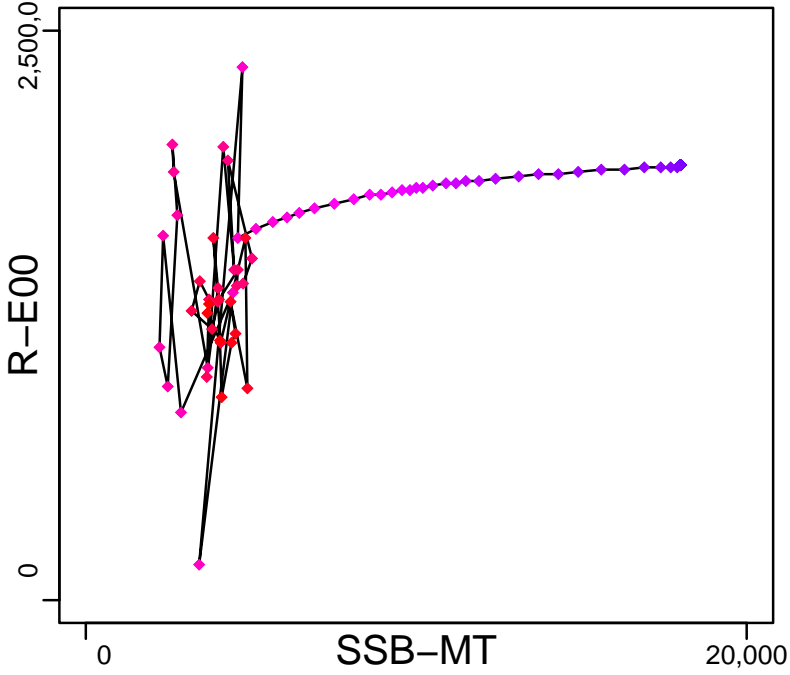
Kobe MSYpref (1927-2018-SISIMP2021-2)



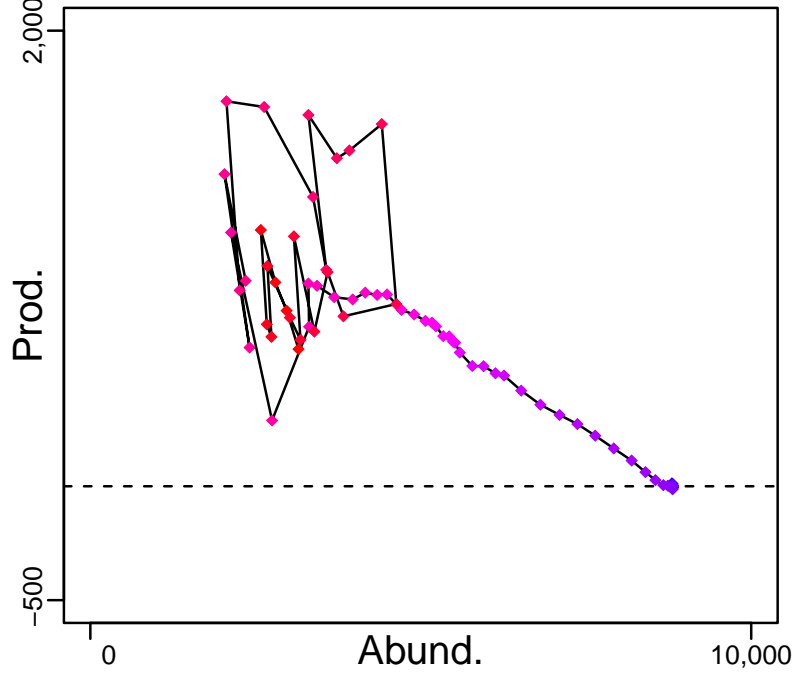
Kobe MGTpref (1927-2018-SISIMP2021-2)



Spawner Recruit (1927-2018-SISIMP2021-2)



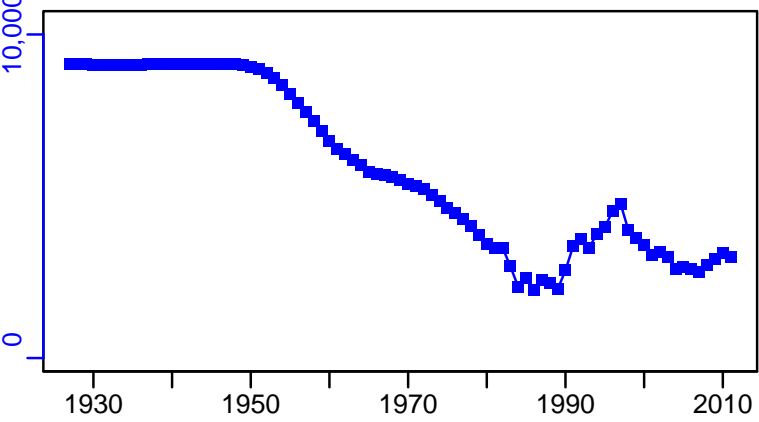
Production (1927-2018-SISIMP2021-2)



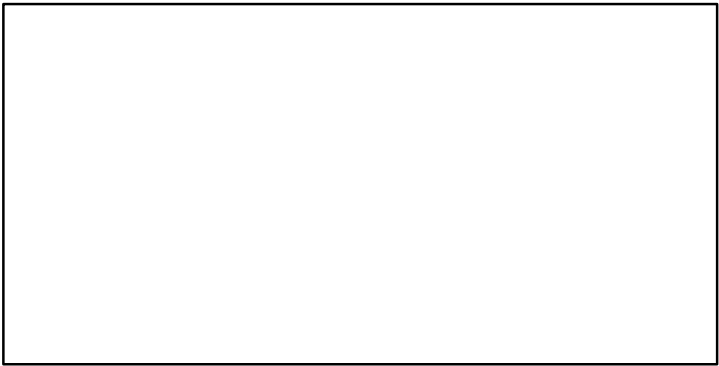
◆ Start Year ◆ End Year * No Data

Cobia Gulf of Mexico [COBGM]

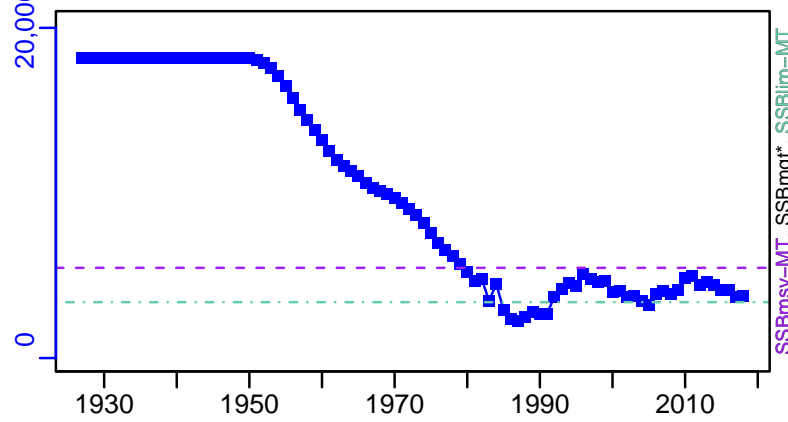
TB-MT (1927-2011-SISIMP2016)



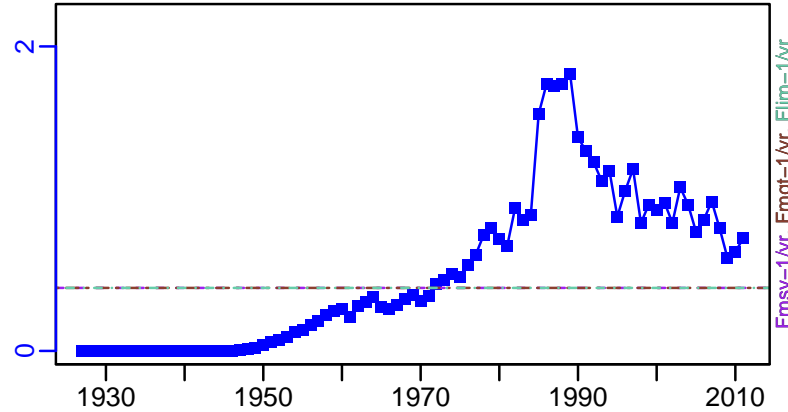
TN *



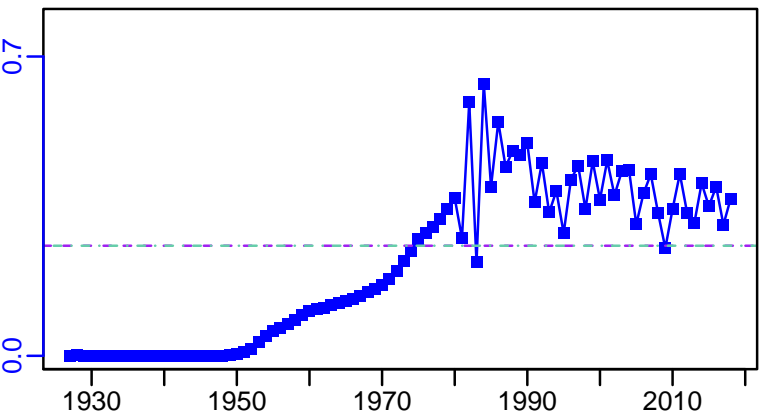
SSB-MT (1927-2018-SISIMP2021-2)



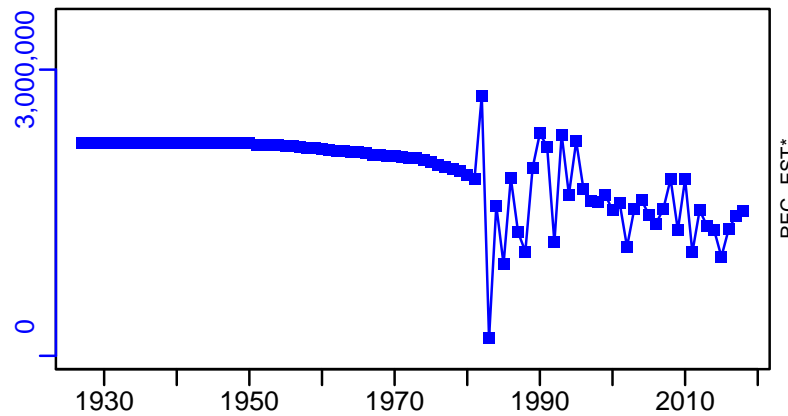
F-1/yr (1927-2011-SISIMP2016)



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



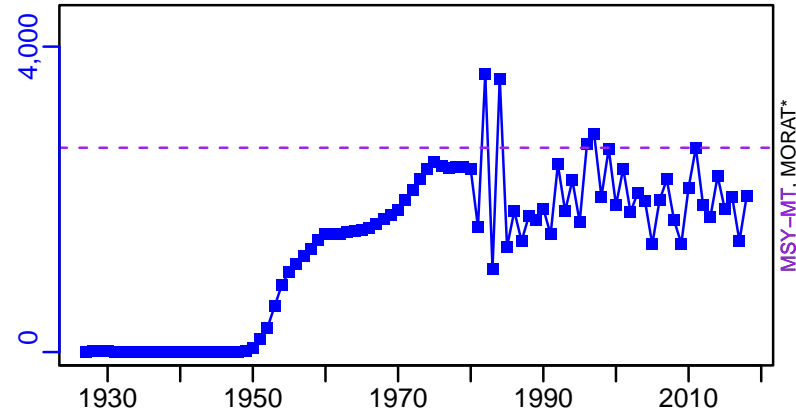
R-E00 (1927-2018-SISIMP2021-2)



Cobia Gulf of Mexico [COBGM]

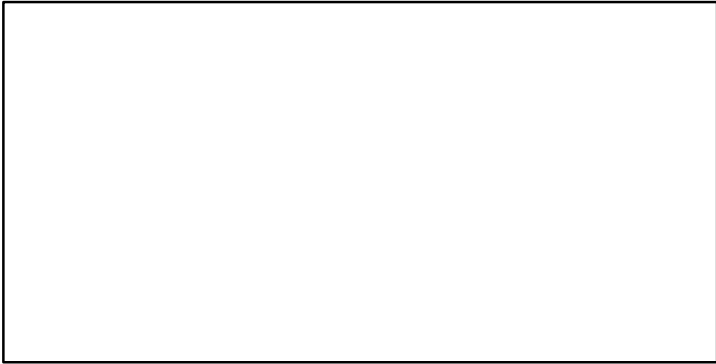
TC-MT, TL*, RecC* (1927-2018-SISIMP2021-2)

TAC*, Cpair*, Cadv*

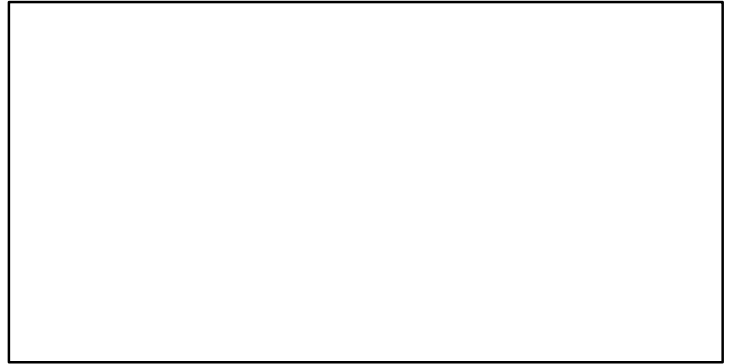


MSY-MT, MORAT*

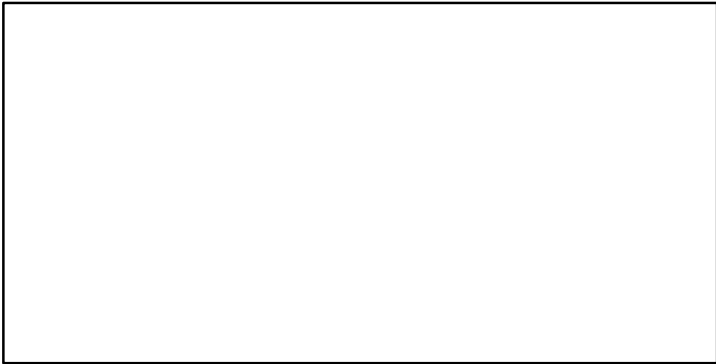
survB*



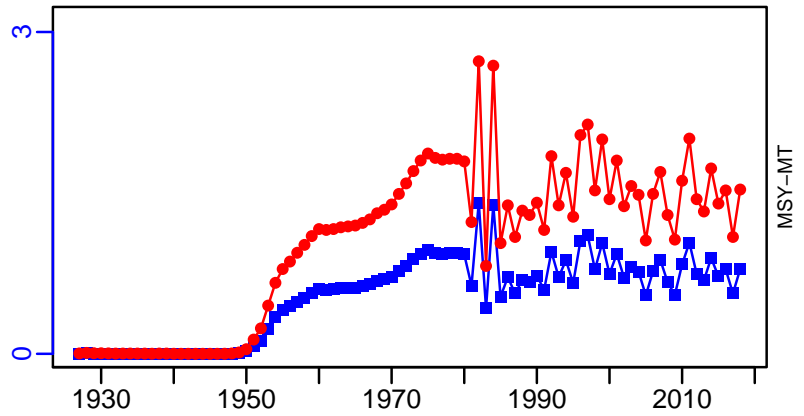
CPUE*



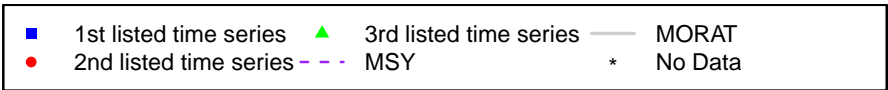
EFFORT*



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



MSY-MT



Cobia Southern Atlantic coast [COBSATLC]

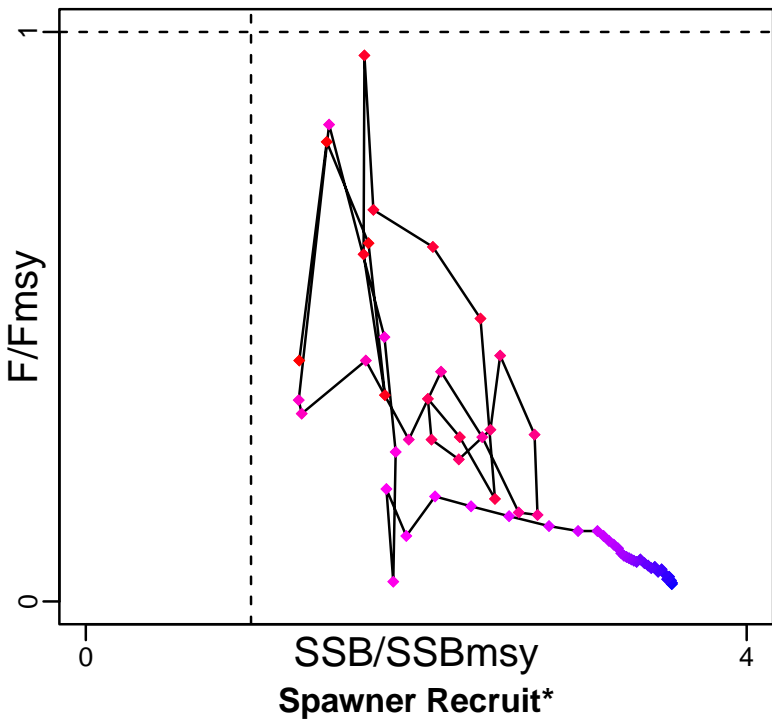
Metadata	
Scientific Name	Rachycentron canadum
Current Assess ID	SEFSC-COBSATLC-1950-2011-SISIMP2016
Area	Southern Atlantic coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2011

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

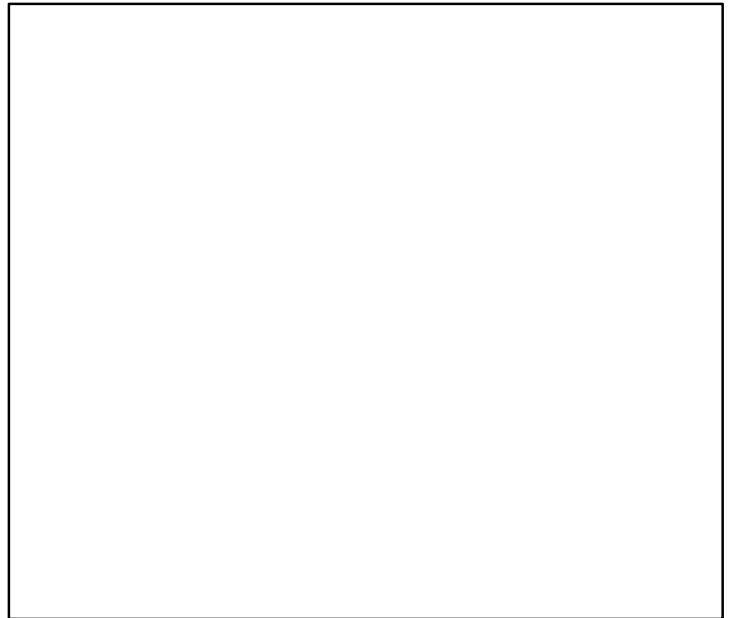
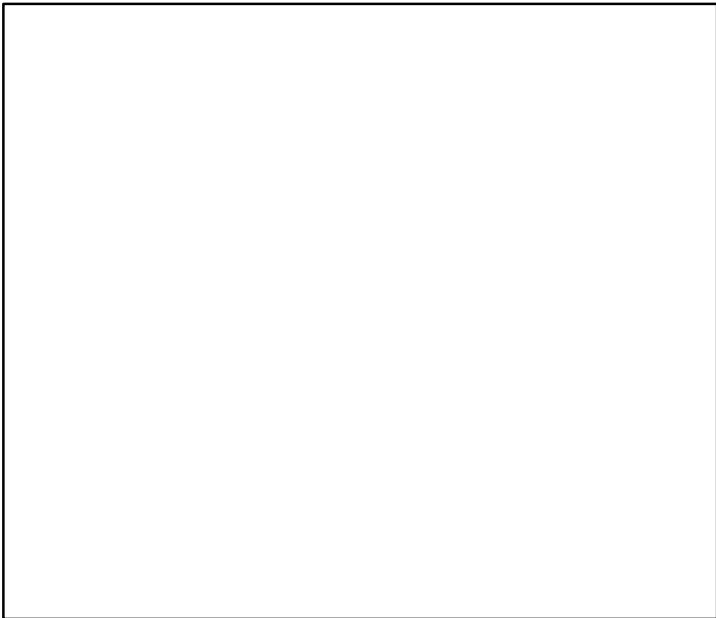
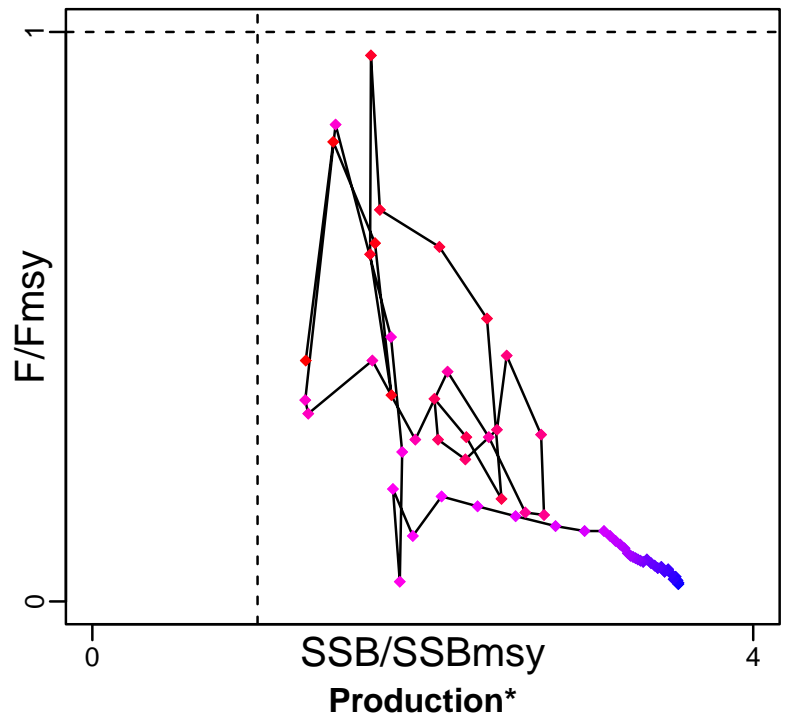
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	693	Females	2+
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2011	0.195	-	-
ER	-	-	-	-	-
TC	-	-	-	-	-
TL	TL-MT	2011	15	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	1.292	-	-
F/Fmsy	F-1/yr/Fmsy-1/yr	2011	0.423	-	-
ER/ERmsy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

Cobia Southern Atlantic coast [COBSATLC]

Kobe MSYpref (1950–2011–SISIMP2016)



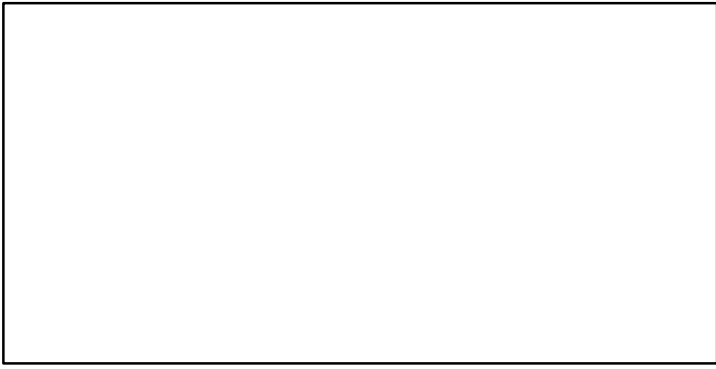
Kobe MGTpref (1950–2011–SISIMP2016)



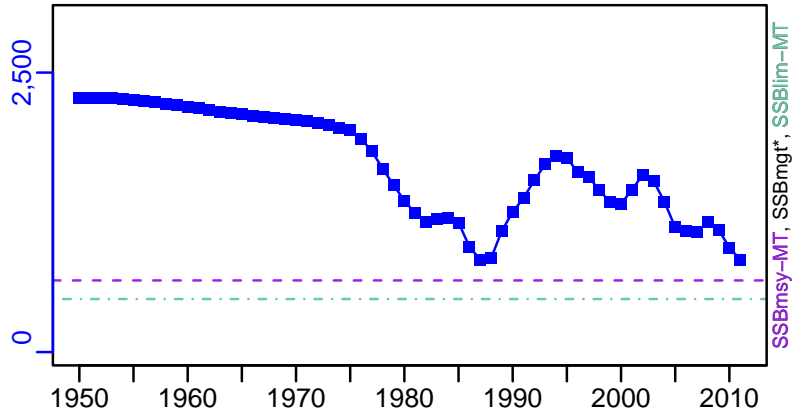
◆ Start Year ◆ End Year * No Data

Cobia Southern Atlantic coast [COBSATLC]

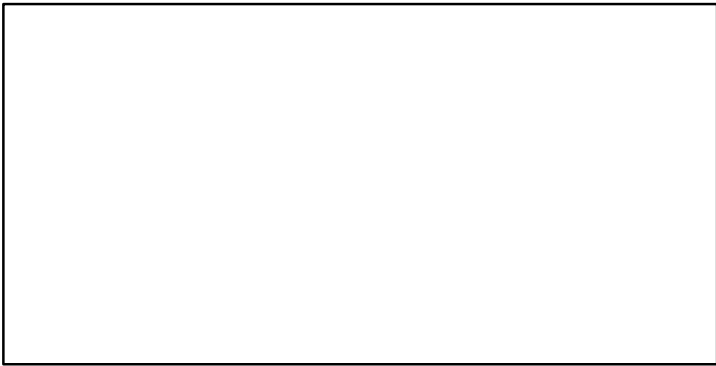
TB*



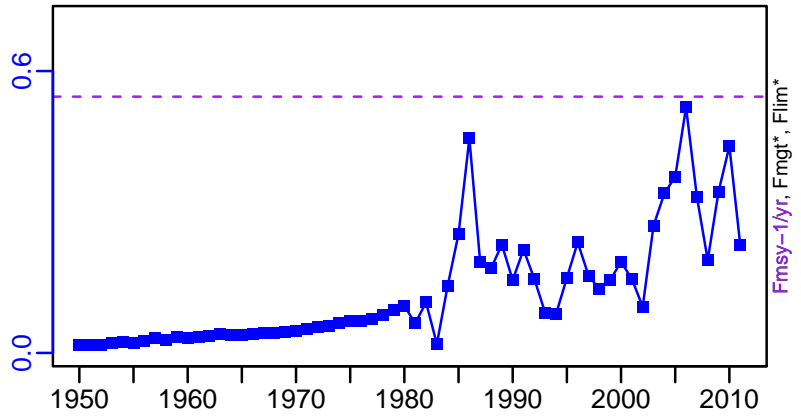
SSB-MT (1950-2011-SISIMP2016)



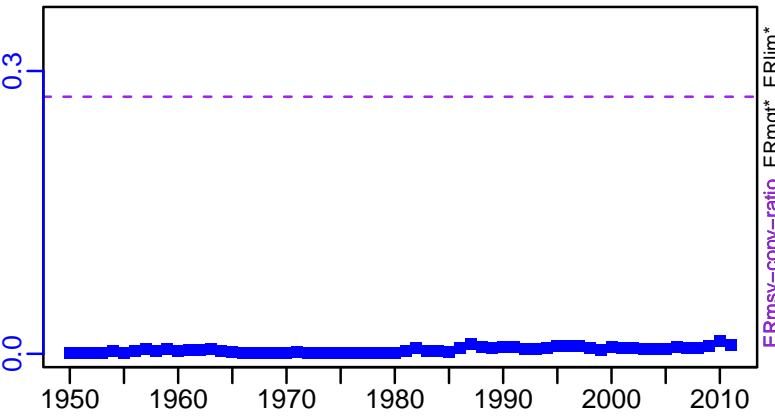
TN *



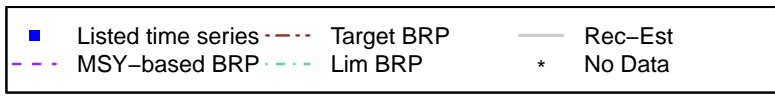
F-1/yr (1950-2011-SISIMP2016)



ER-calc-ratio (1950-2011-SISIMP2016)



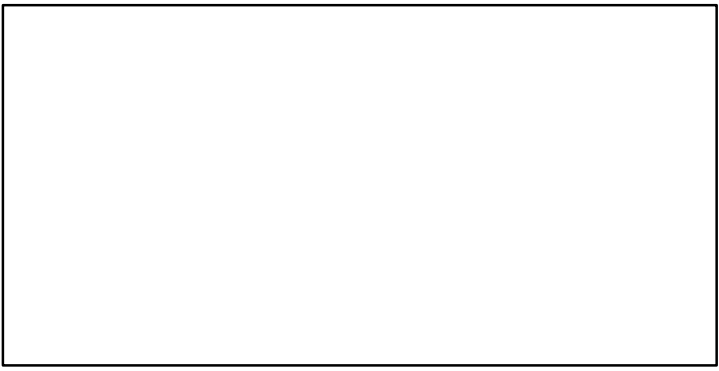
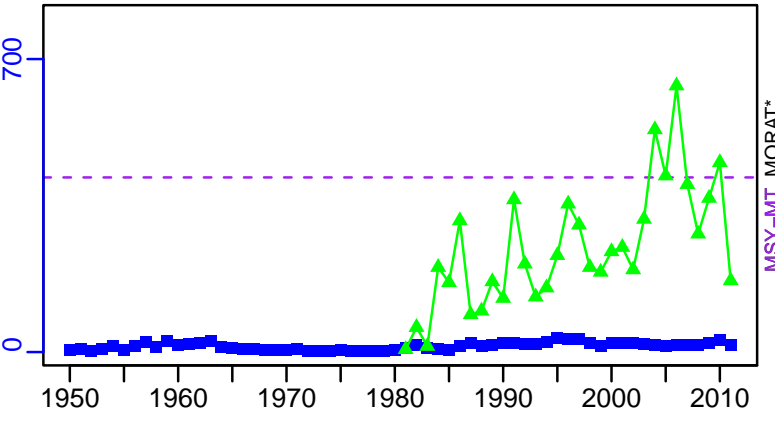
Recruits*



Cobia Southern Atlantic coast [COBSATLC]

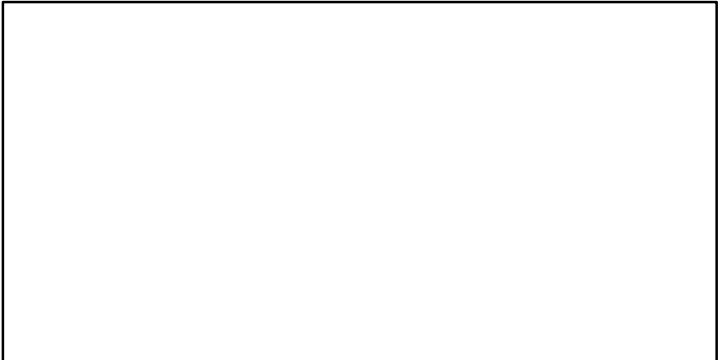
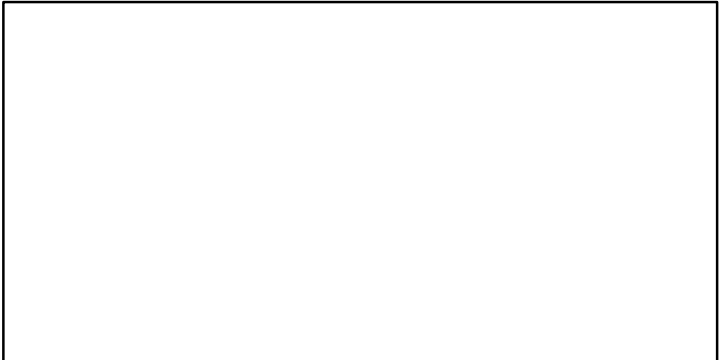
TL-MT, TC*, RecC-MT (1950-2011-SISIMP2016)

TAC*, Cpair*, Cadv*



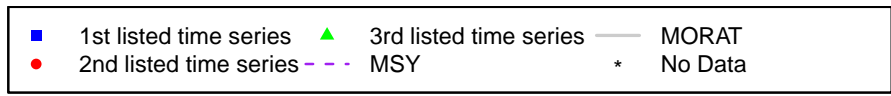
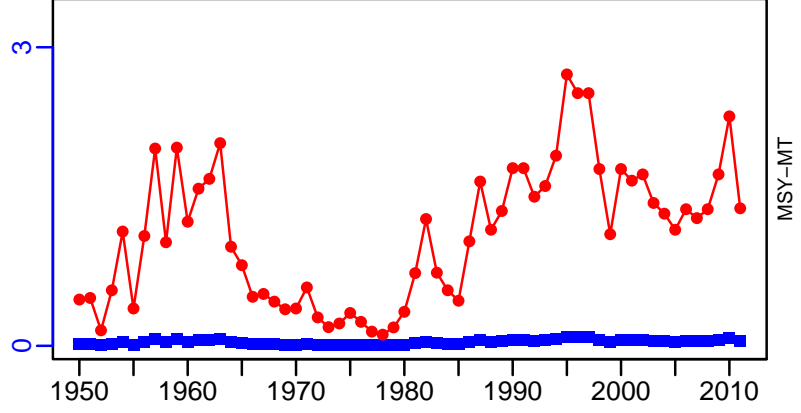
survB*

CPUE*



EFFORT*

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



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

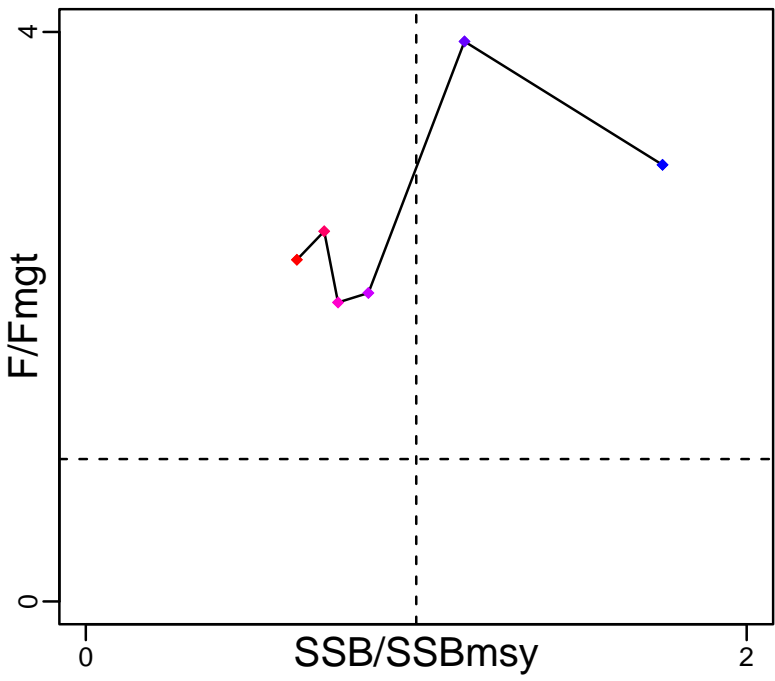
Metadata	
Scientific Name	Pagellus erythrinus
Current Assess ID	STECF-CPANDMEDGSA15-16-2006-2011-OSIO
Area	Malta Island and South of Sicily (GSA 15, 16)
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee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

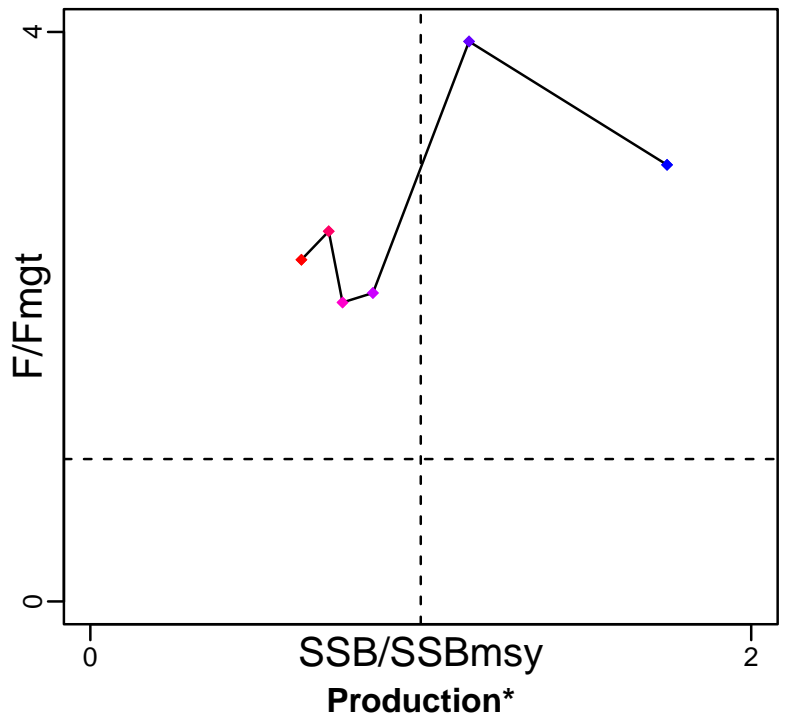
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	549	-	2+
TN	-	-	-	-	-
R	R-E00	2011	4,850,000	-	-
F	F-1/yr	2011	0.72	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	273		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-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

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

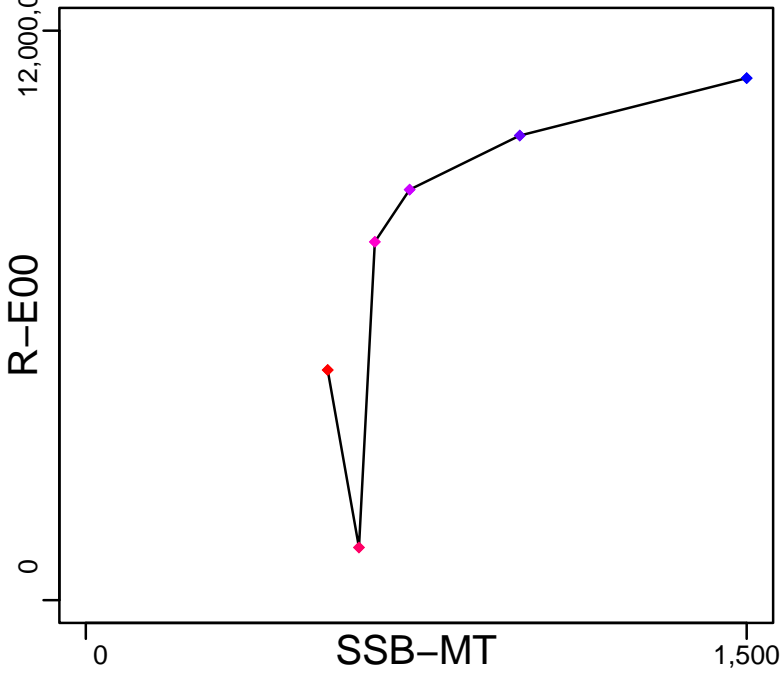
Kobe MSYpref (2006-2011-OSIO)



Kobe MGTpref (2006-2011-OSIO)



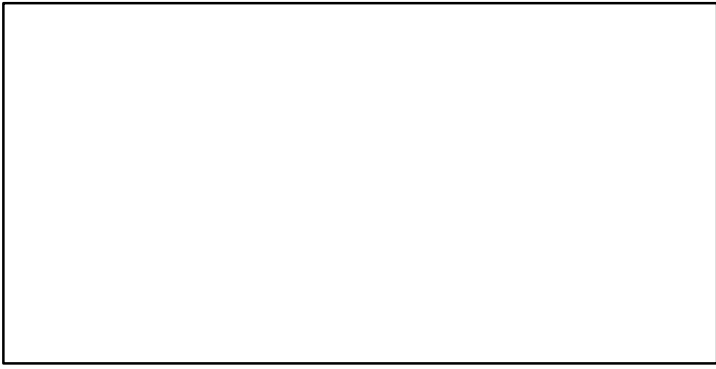
Spawner Recruit (2006-2011-OSIO)



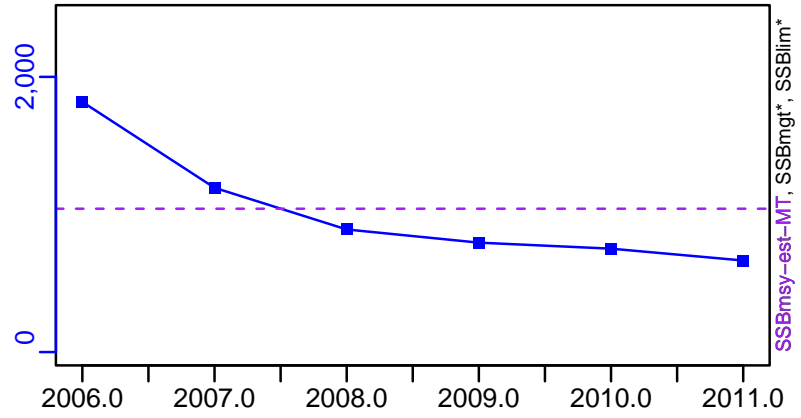
◆ Start Year ◆ End Year * No Data

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

TB*



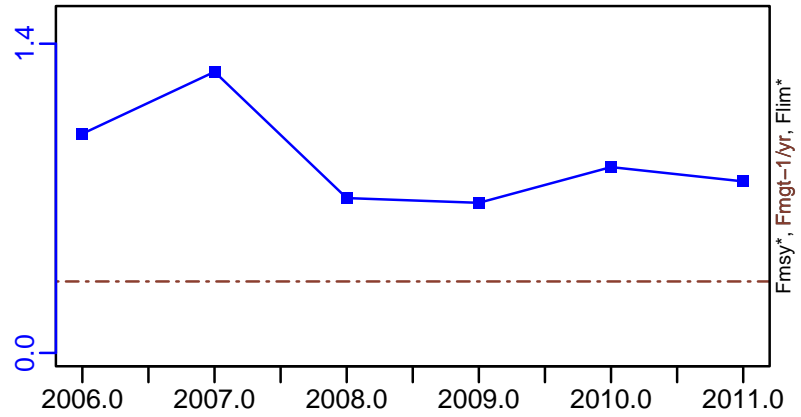
SSB-MT (2006-2011-OSIO)



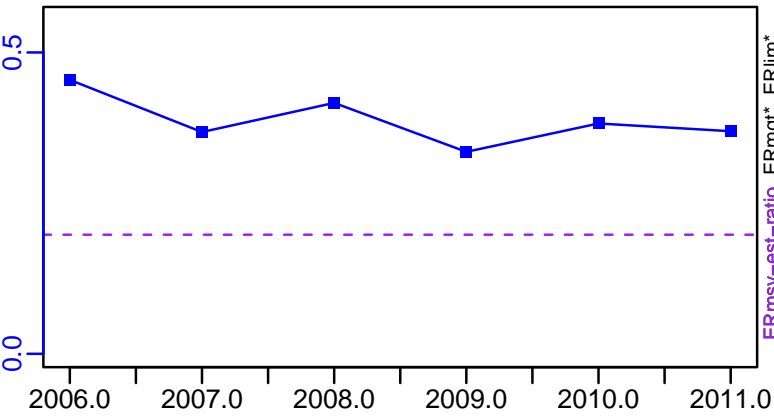
TN *



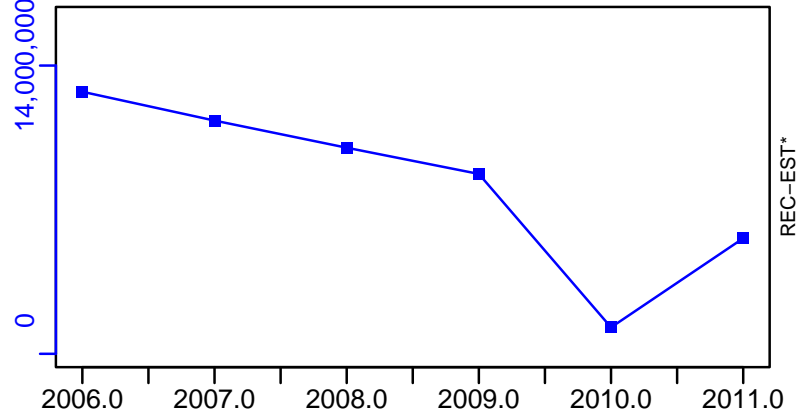
F-1/yr (2006-2011-OSIO)



ER-calc-ratio (2006-2011-OSIO)



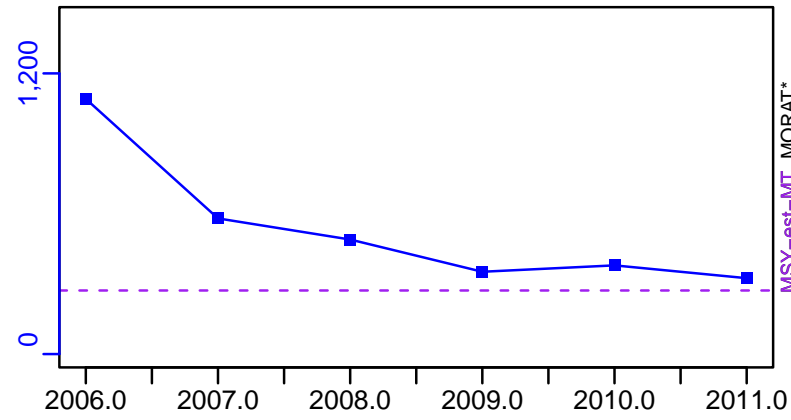
R-E00 (2006-2011-OSIO)



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

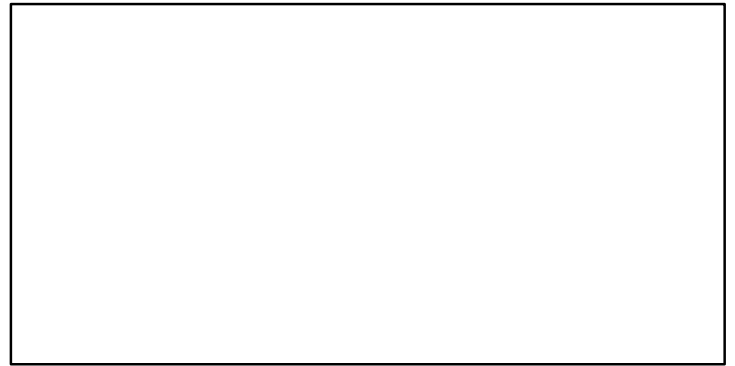
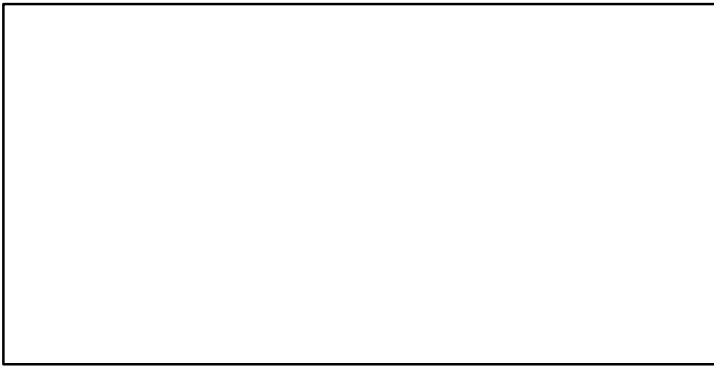
TC-MT, TL*, RecC* (2006-2011-OSIO)

TAC*, Cpair*, Cadv*



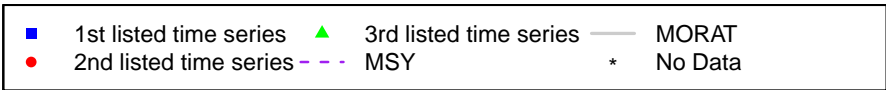
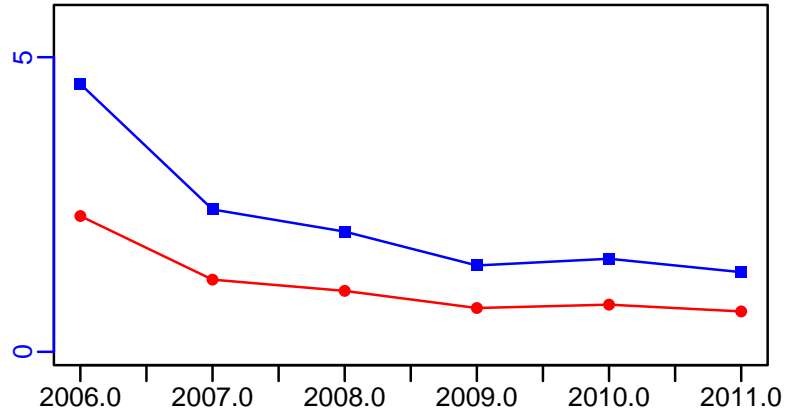
survB*

CPUE*



EFFORT*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006-2011-OSIO)



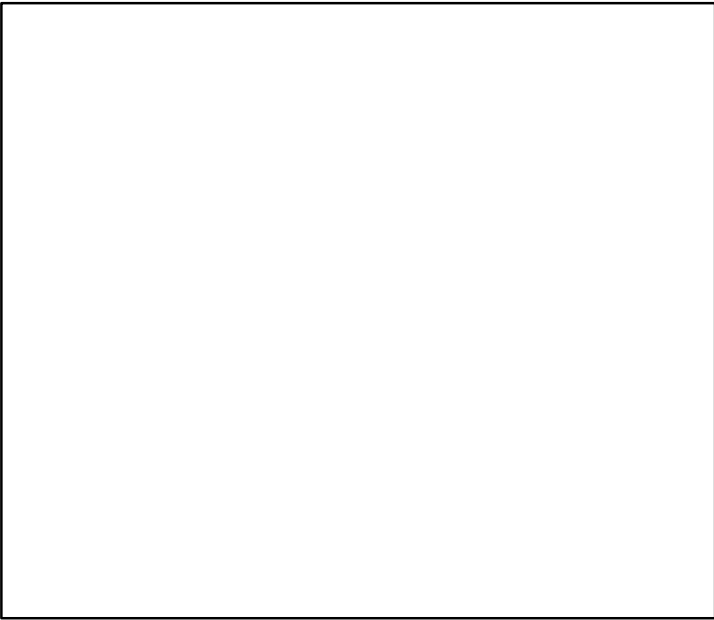
Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

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

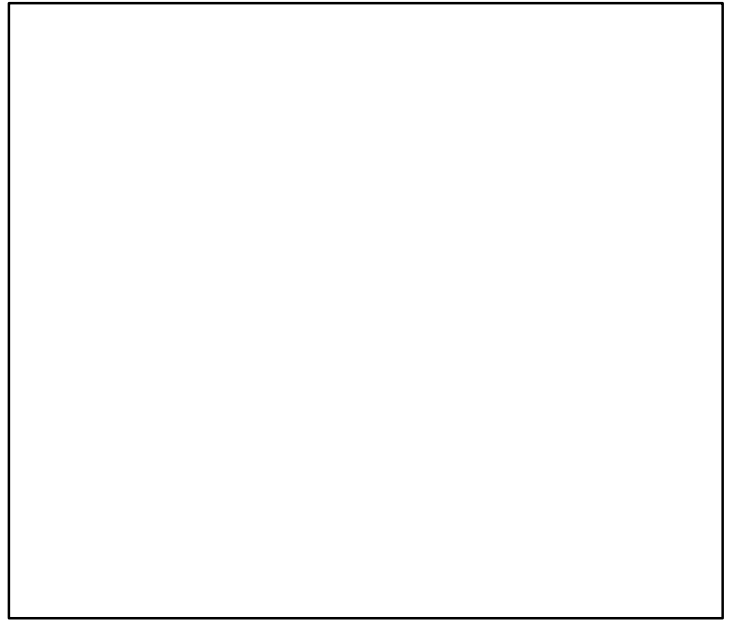
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2010	0.48
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

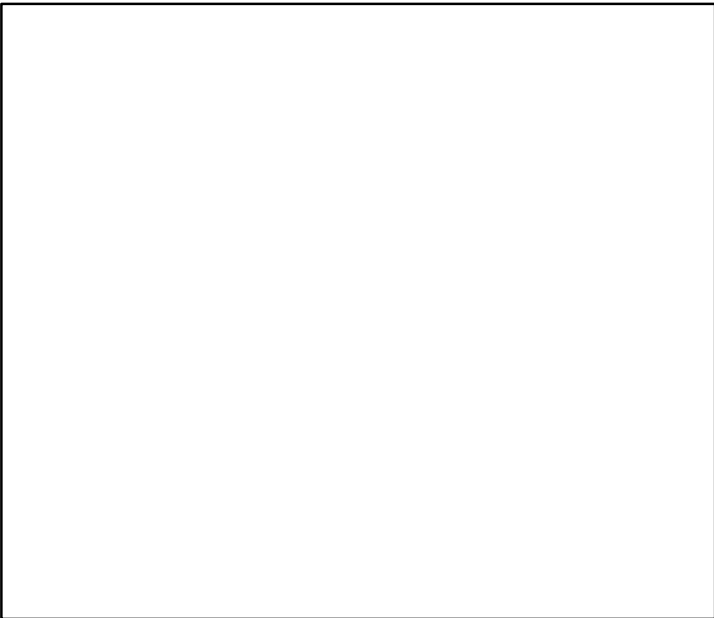
Kobe MSY*



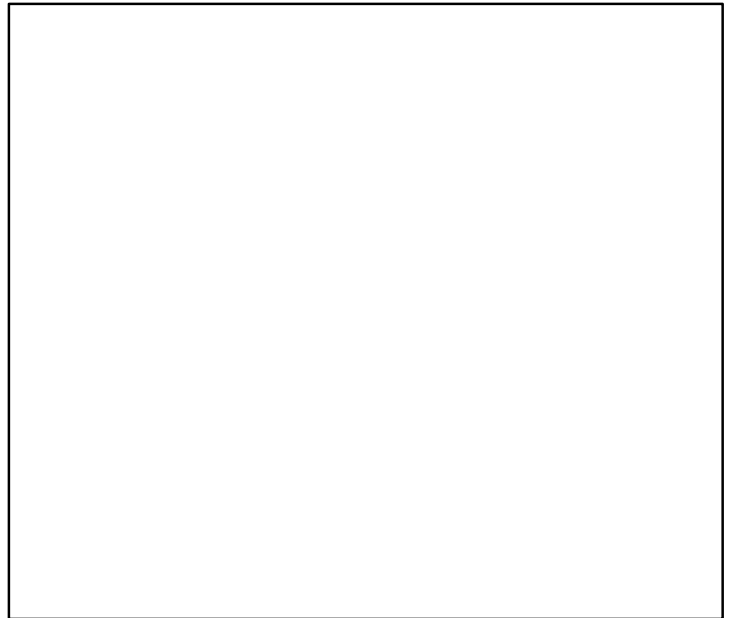
Kobe MGT*



Spawner Recruit*



Production*



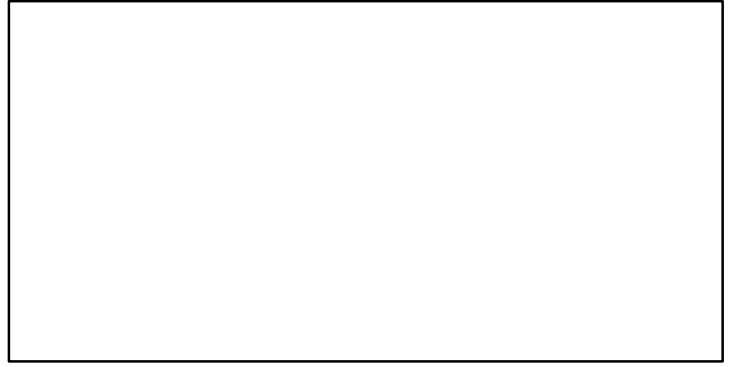
◆ Start Year ◆ End Year * No Data

Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

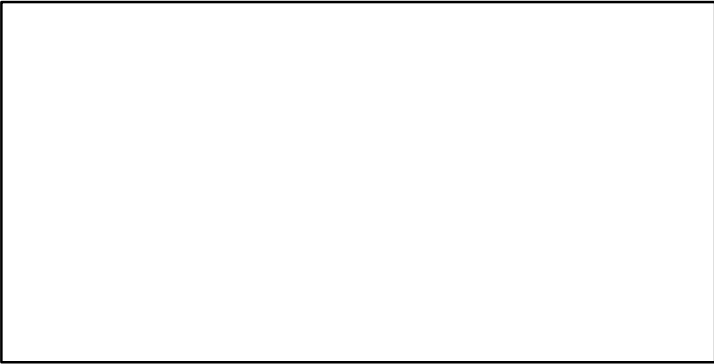
TB*



SSB*



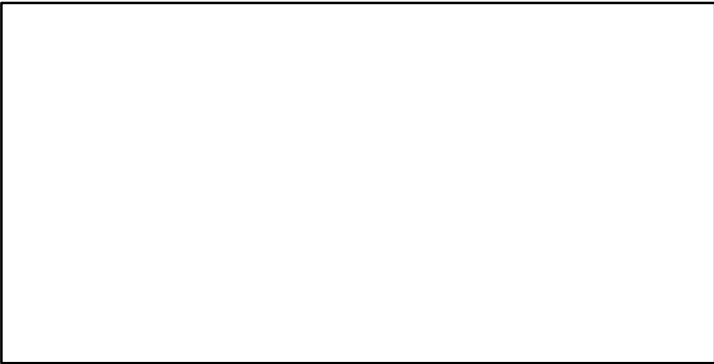
TN *



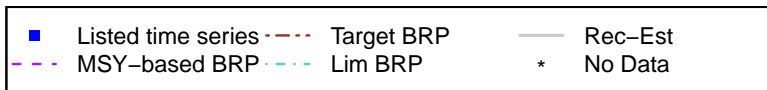
F*



ER*



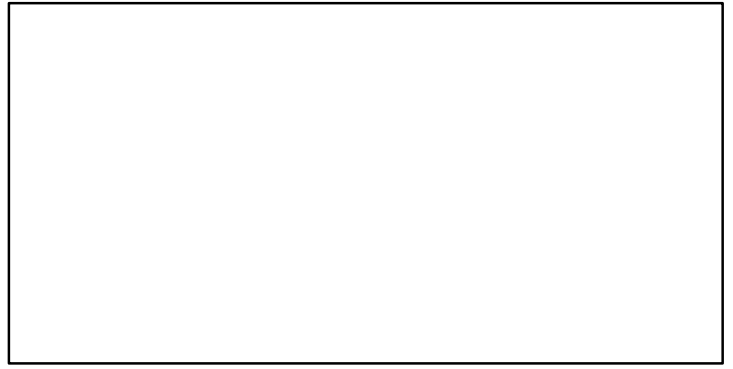
Recruits*



Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

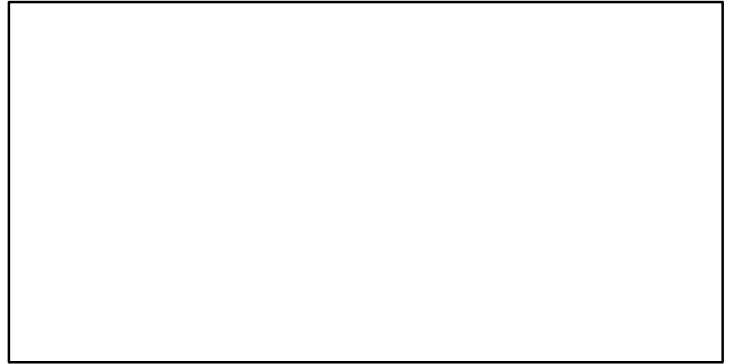
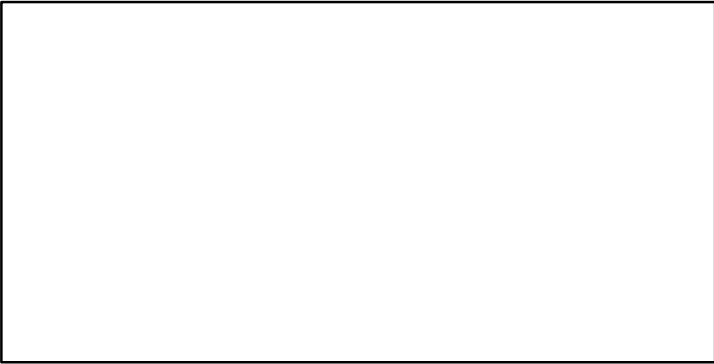
TC-MT, TL*, RecC* (2006-2010-OSIO)

TAC*, Cpair*, Cadv*



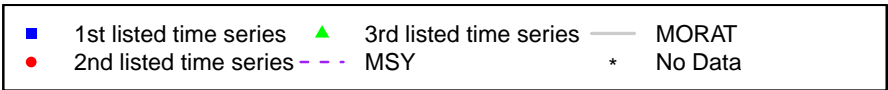
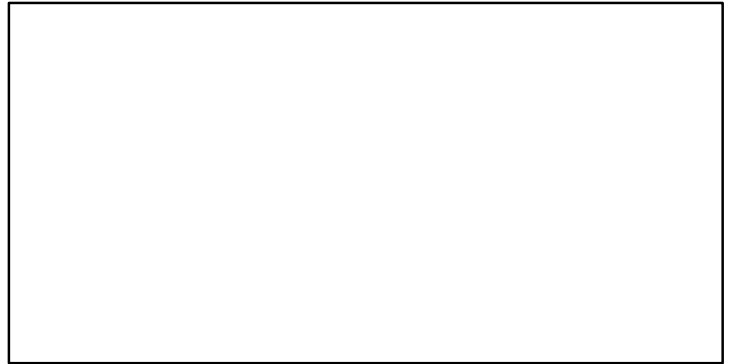
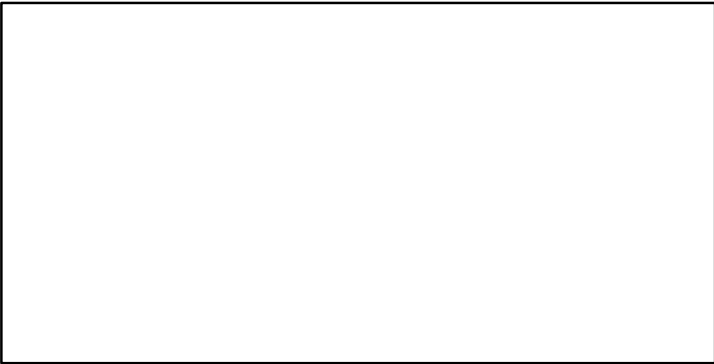
survB*

CPUE*



EFFORT*

CdivMSY*



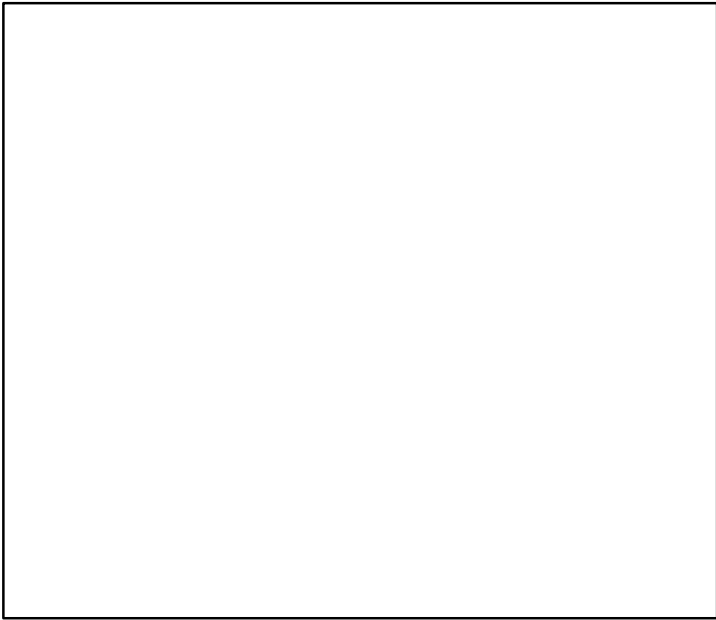
Croaker Central West Africa Cote Divoire-Benin [CROAKSPPCWACIV-BEN]

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

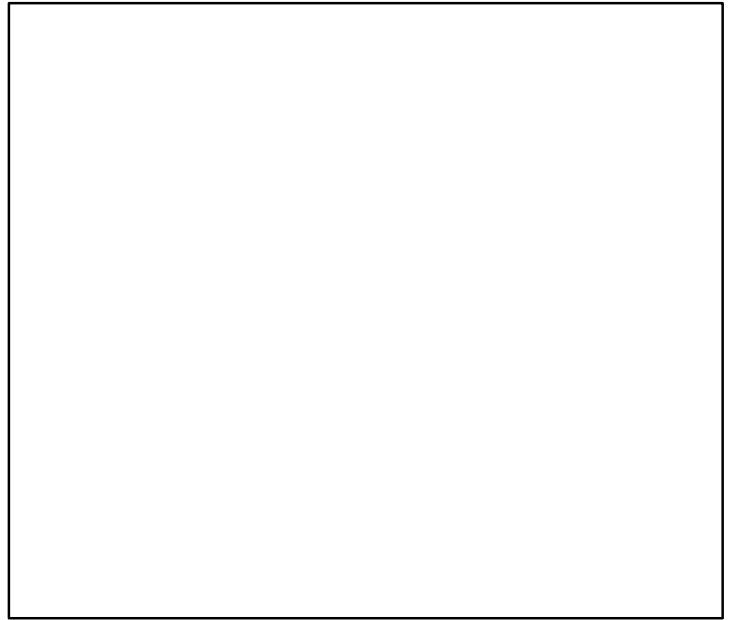
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

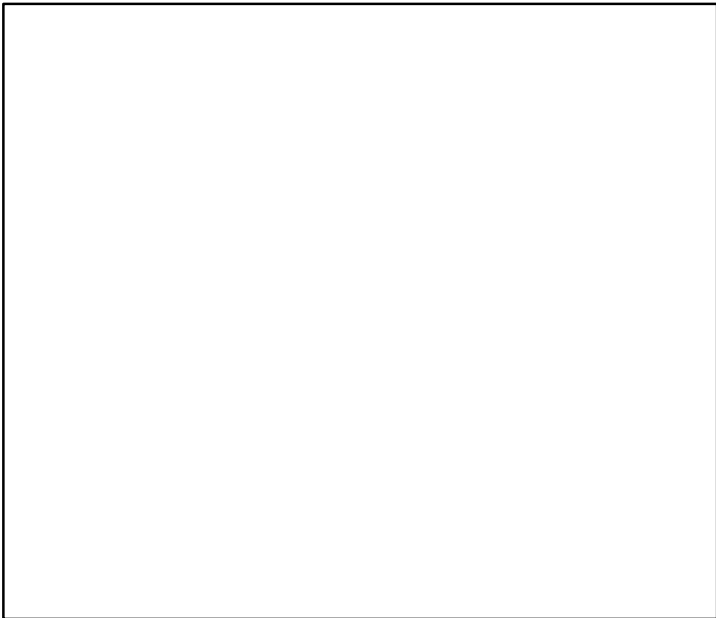
Kobe MSY*



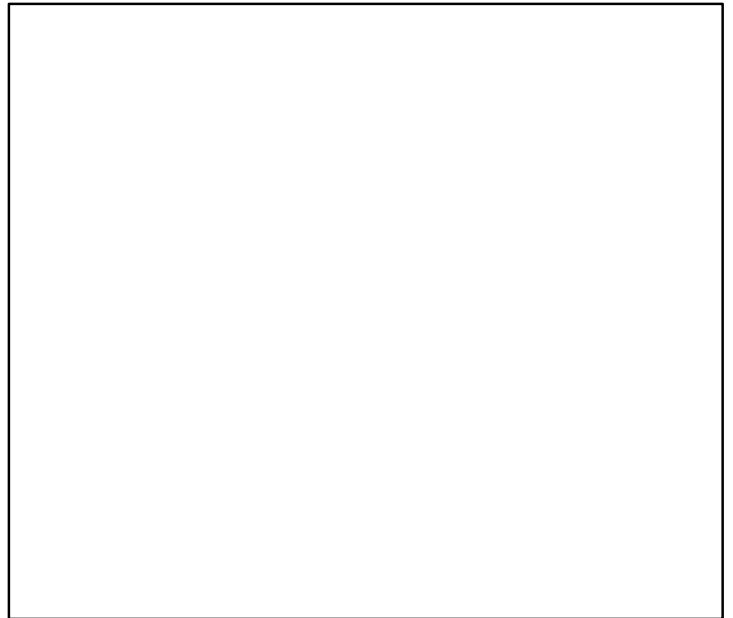
Kobe MGT*



Spawner Recruit*



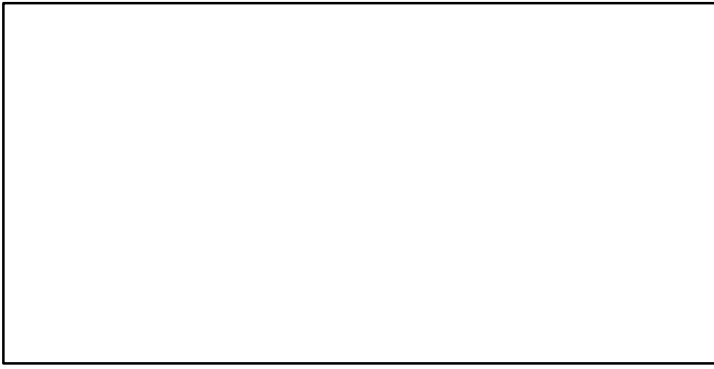
Production*



◆ Start Year ◆ End Year * No Data

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

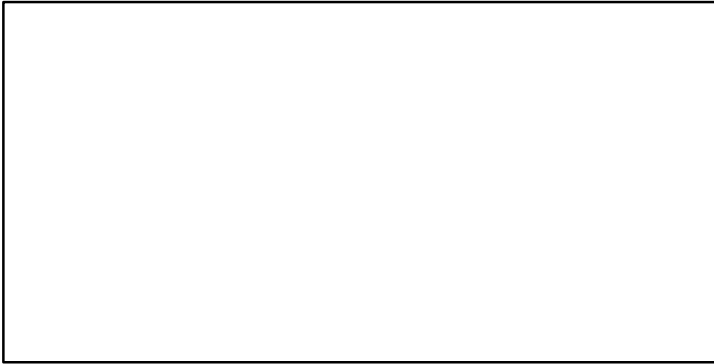
TB*



SSB*



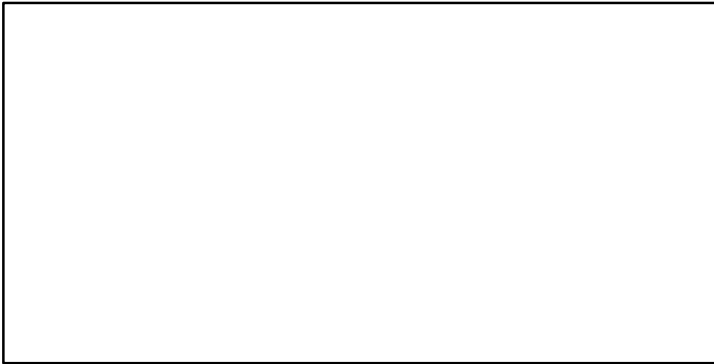
TN *



F*



ER*



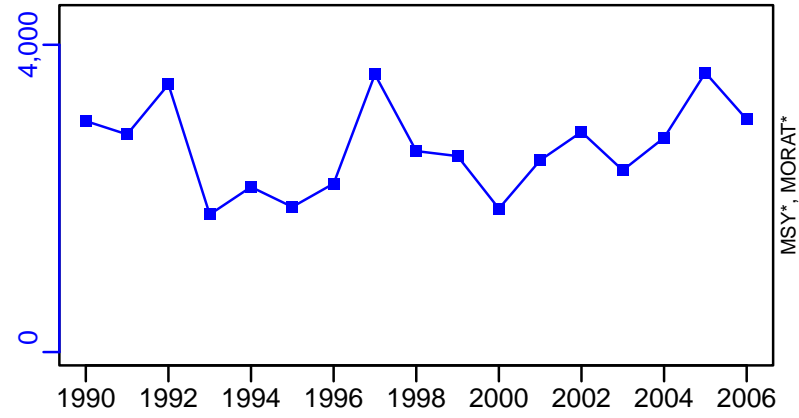
Recruits*



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

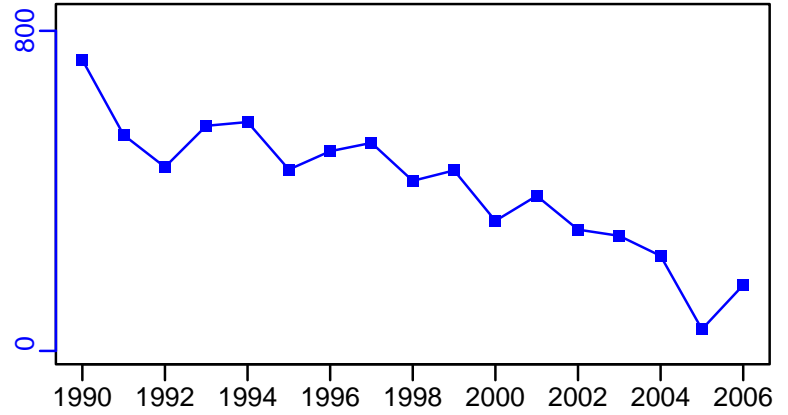
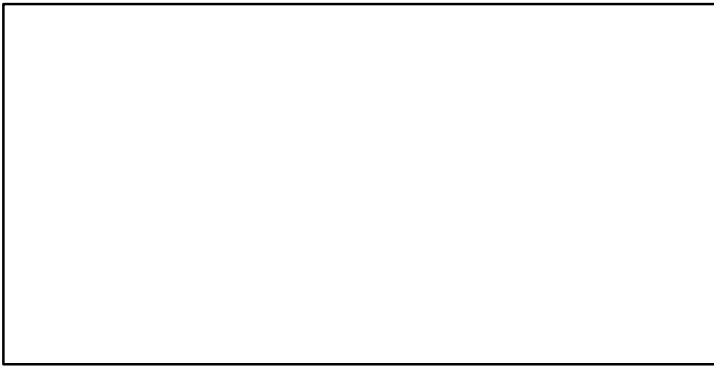
TC–MT, TL*, RecC* (1990–2006–CHING)

TAC*, Cpair*, Cadv*



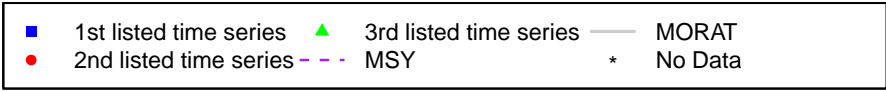
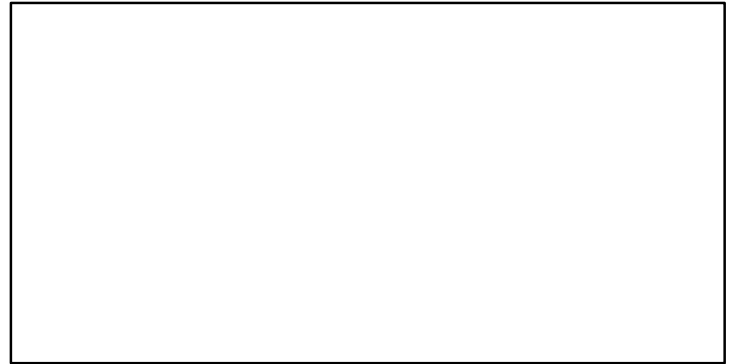
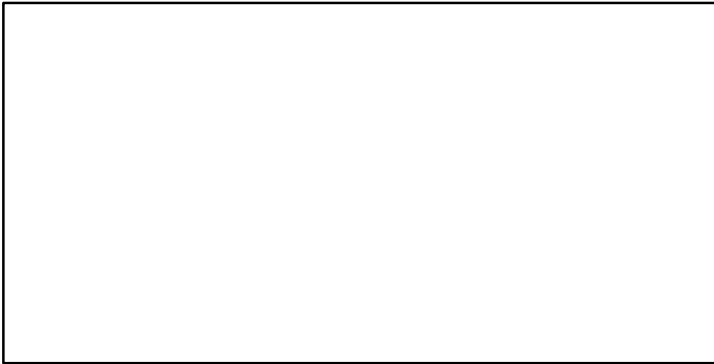
survB*

CPUE–kg/day (1990–2006–CHING)



EFFORT*

CdivMSY*



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

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

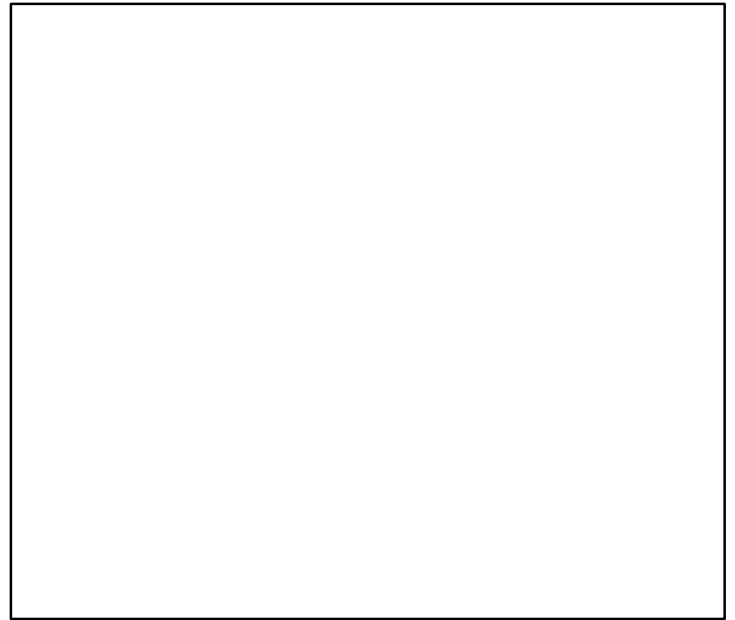
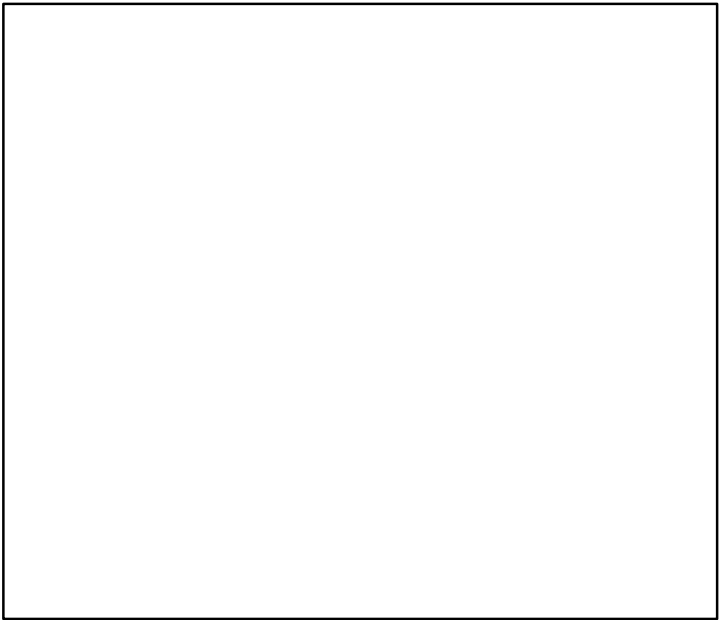
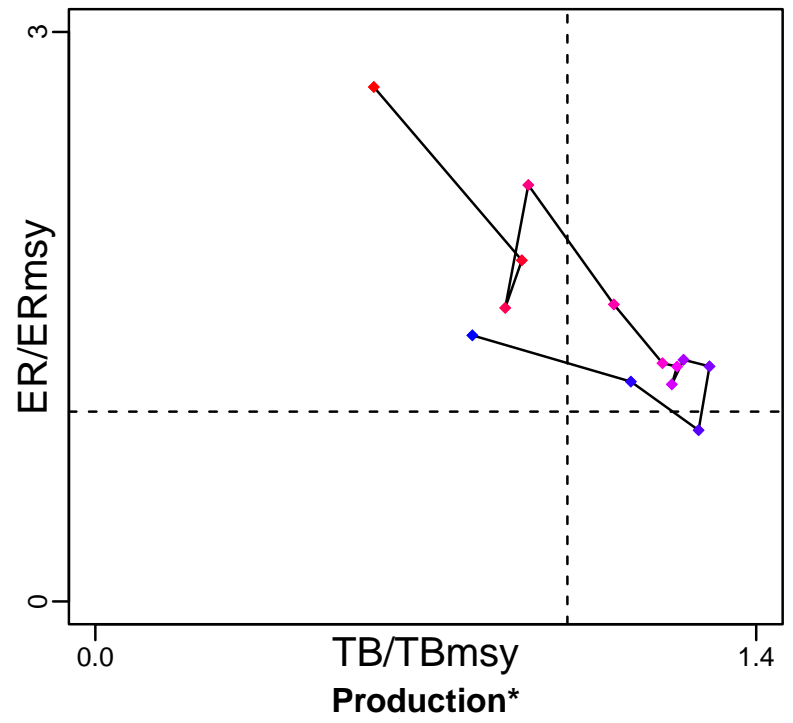
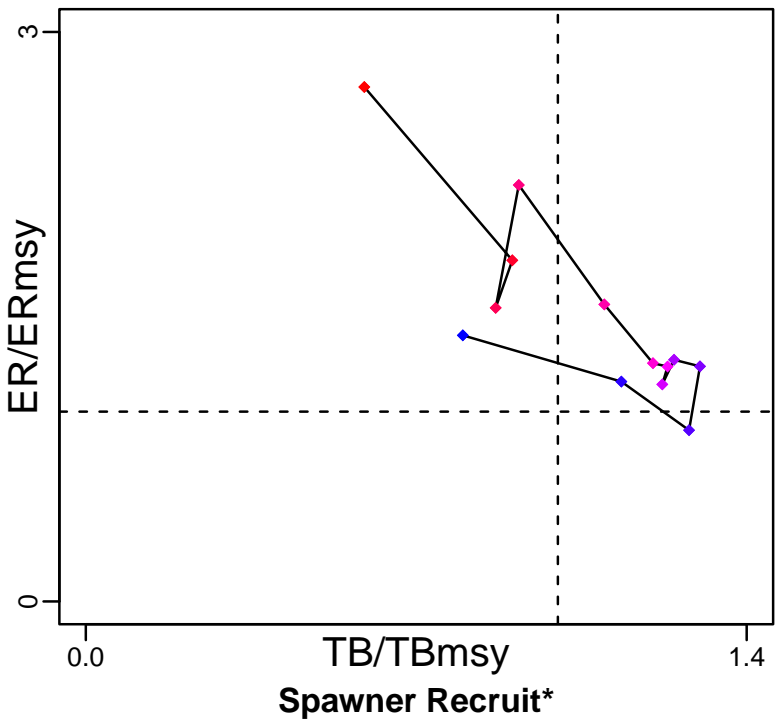
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

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

Kobe MSYpref (1990–2007–CHING)

Kobe MGTpref (1990–2007–CHING)

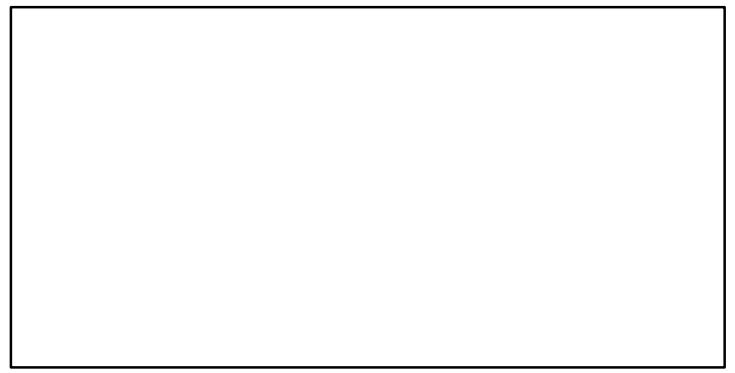
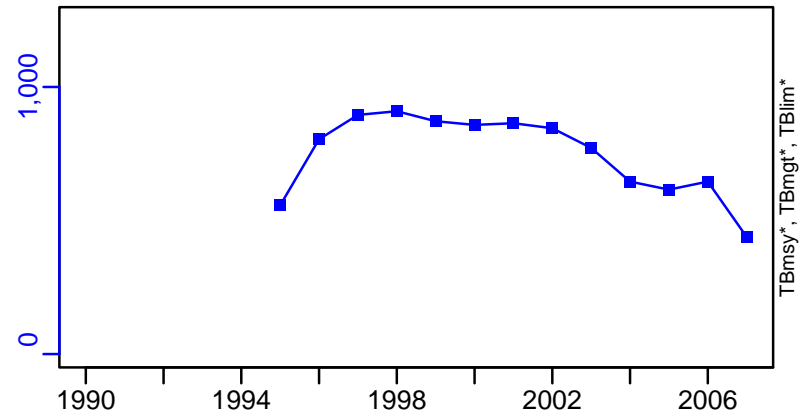


◆ Start Year ◆ End Year * No Data

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

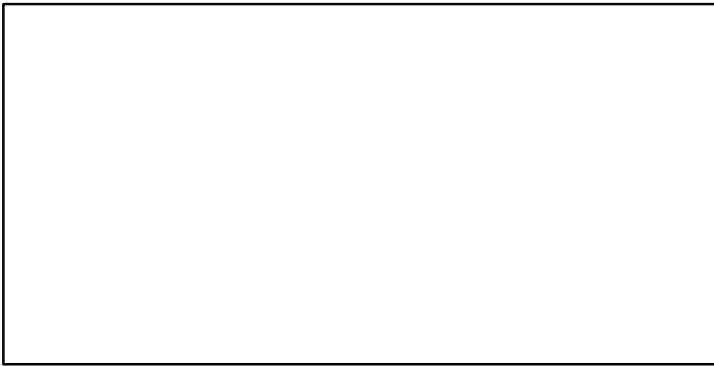
TB-index (1990–2007–CHING)

SSB*



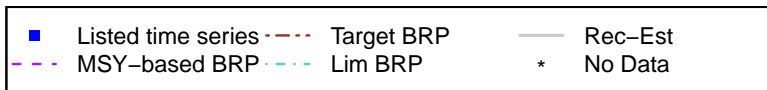
TN *

F*



ER*

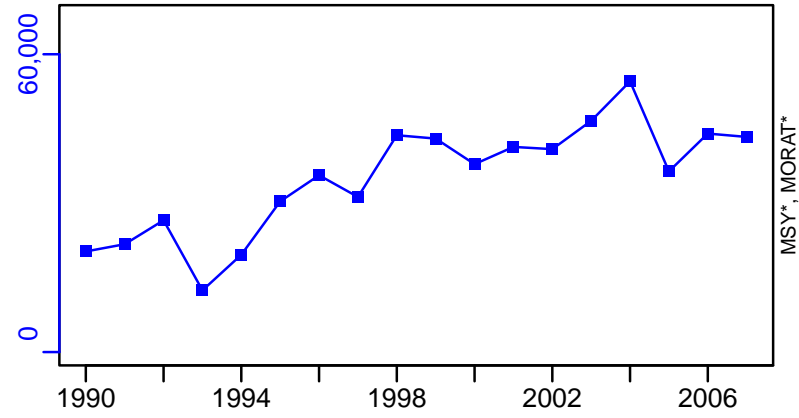
Recruits*



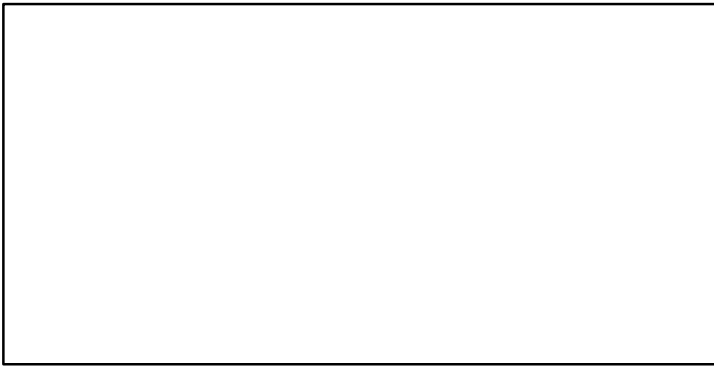
Croaker Central West Africa Gabon–Angola [CROAKSPPCWAGAB–AGO]

TC–MT, TL*, RecC* (1990–2007–CHING)

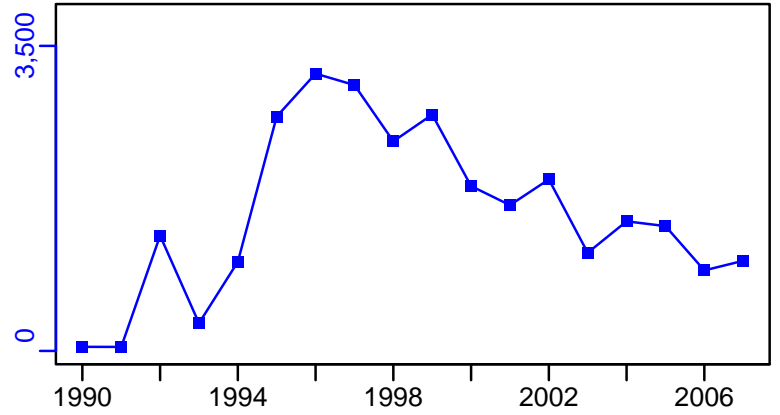
TAC*, Cpair*, Cadv*



survB*



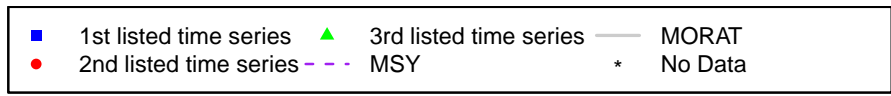
CPUE–kg/day (1990–2007–CHING)



EFFORT*



CdivMSY*



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

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

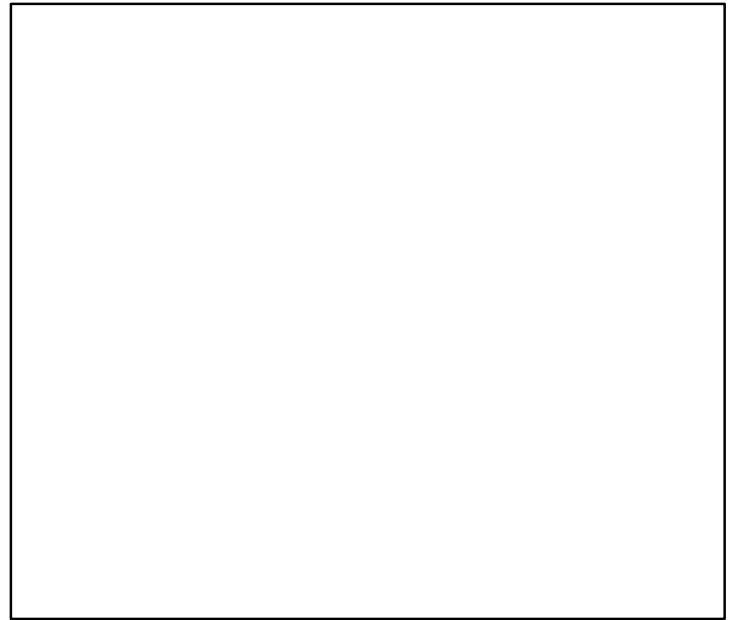
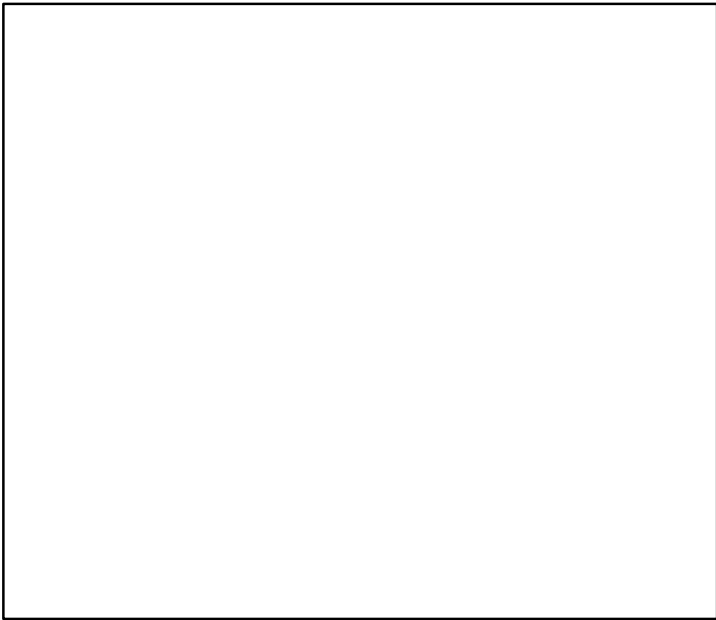
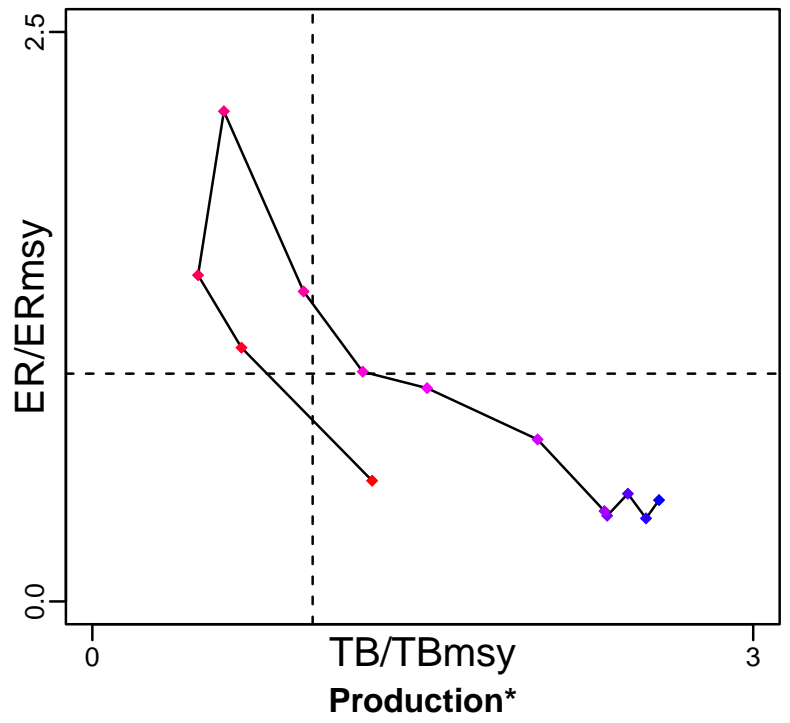
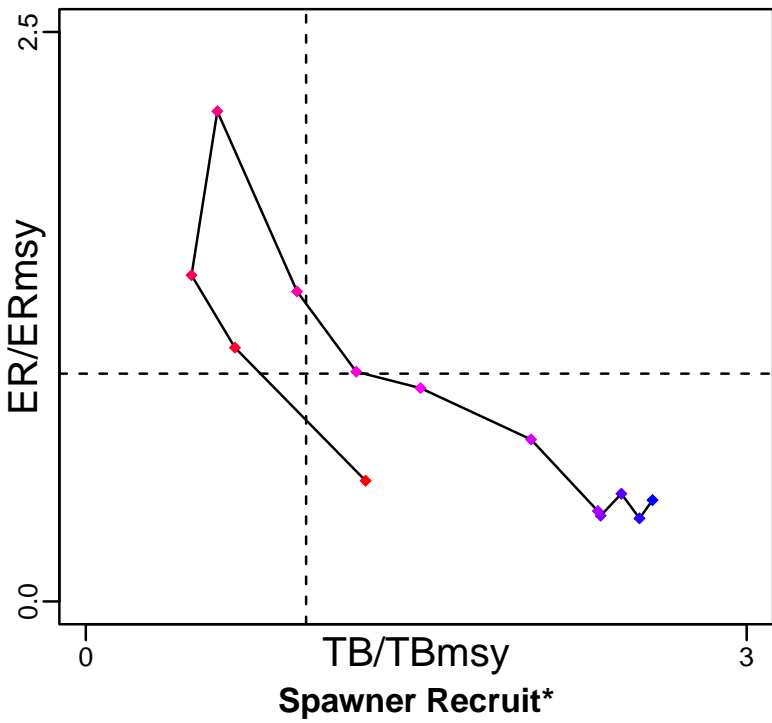
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

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

Kobe MSYpref (1994-2007-CHING)

Kobe MGTpref (1994-2007-CHING)

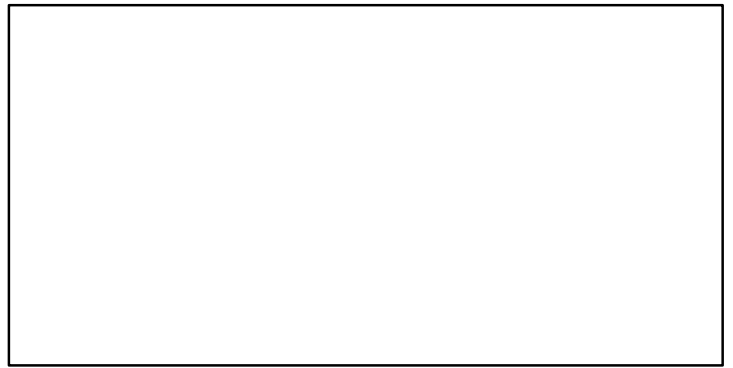
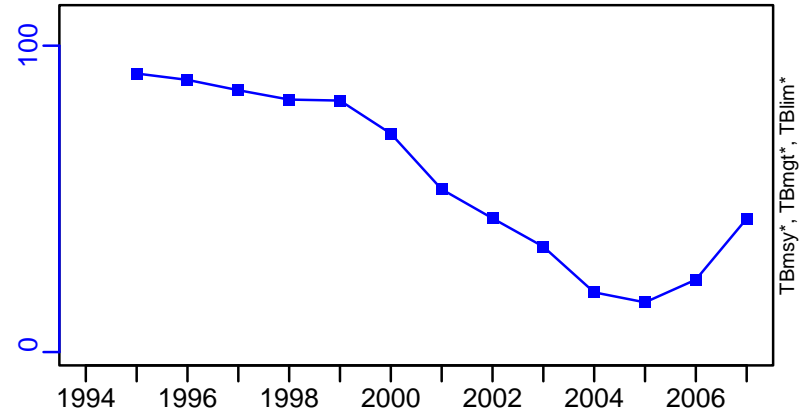


◆ Start Year ◆ End Year * No Data

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

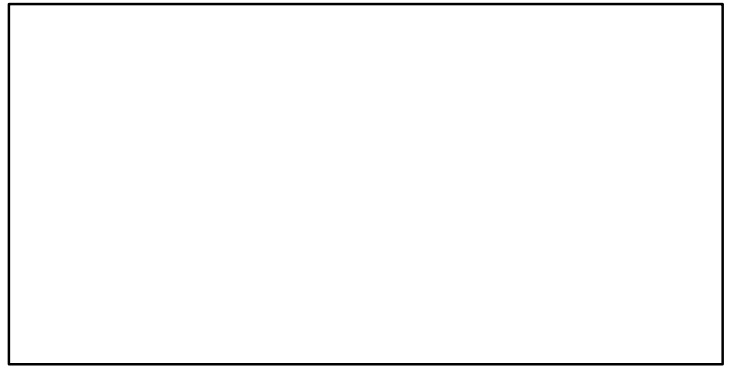
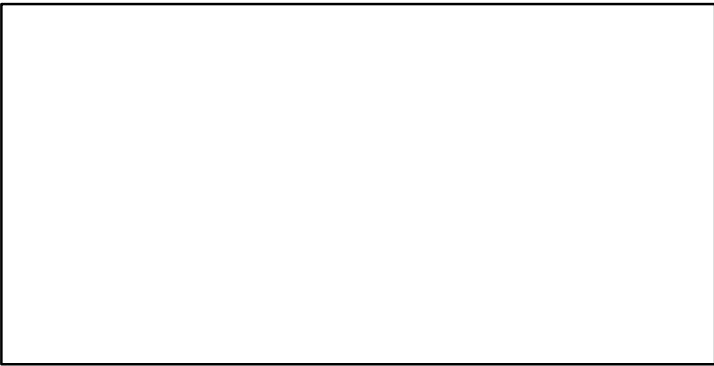
TB-index (1994-2007-CHING)

SSB*



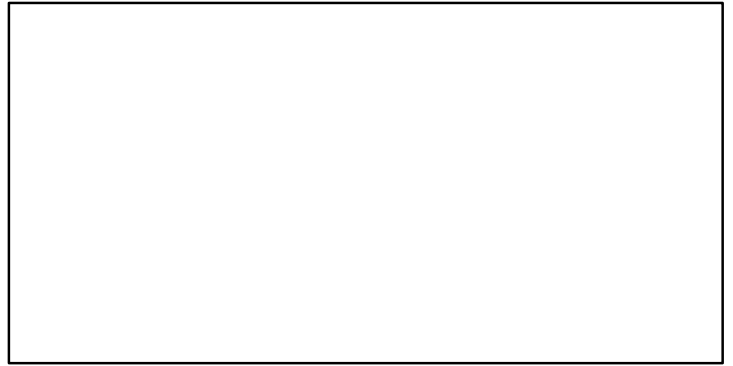
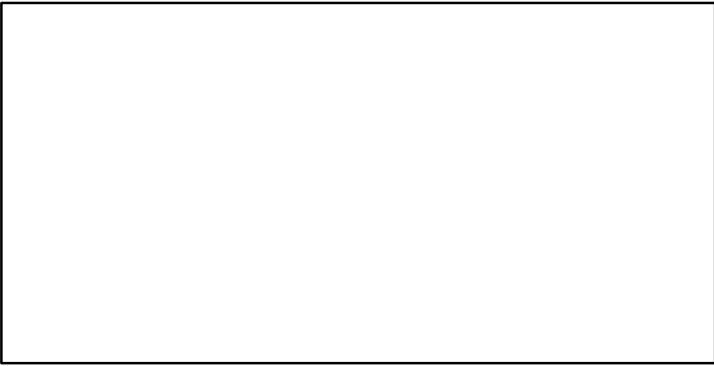
TN *

F*



ER*

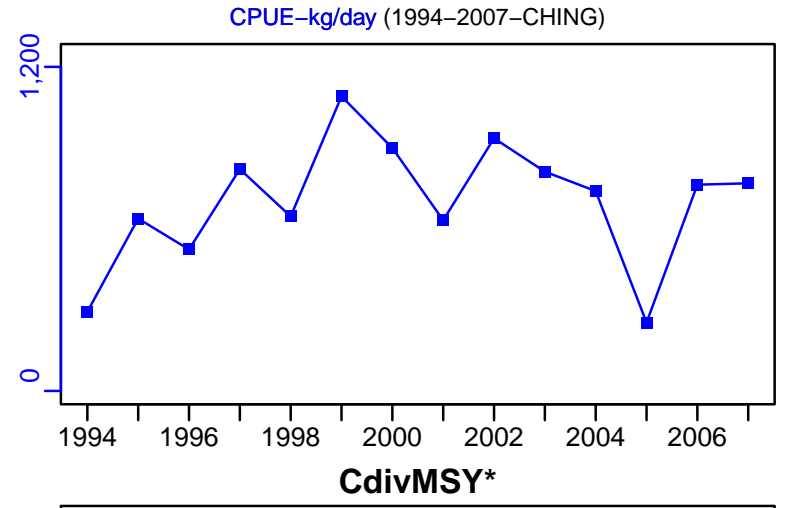
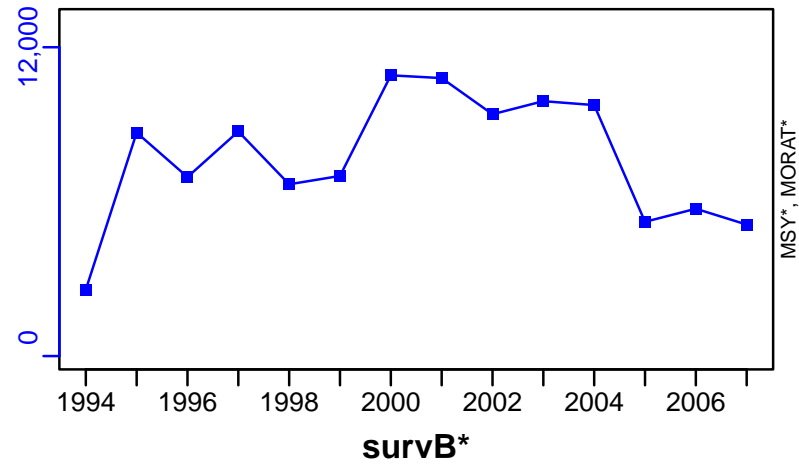
Recruits*



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

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

TAC*, Cpair*, Cadv*



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

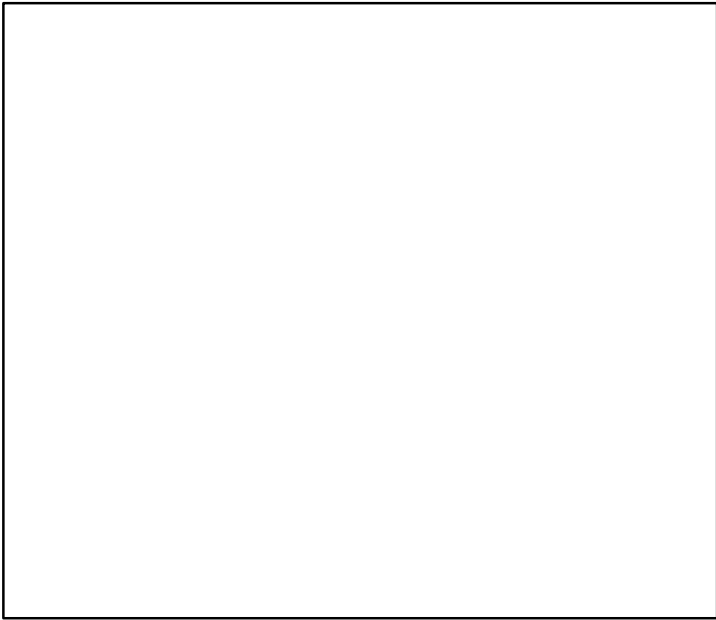
Croaker North West Africa Senegal_The Gambia [CROAKSPPNWASEN_GMB]

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

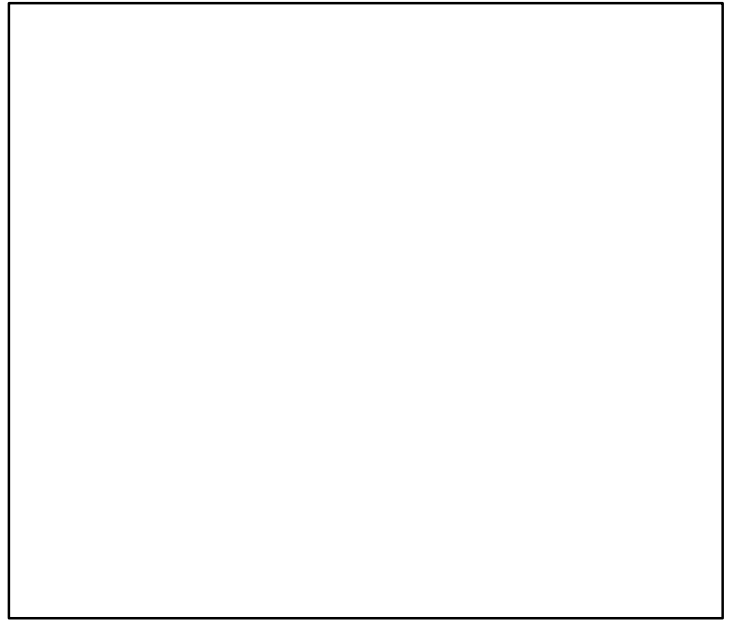
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

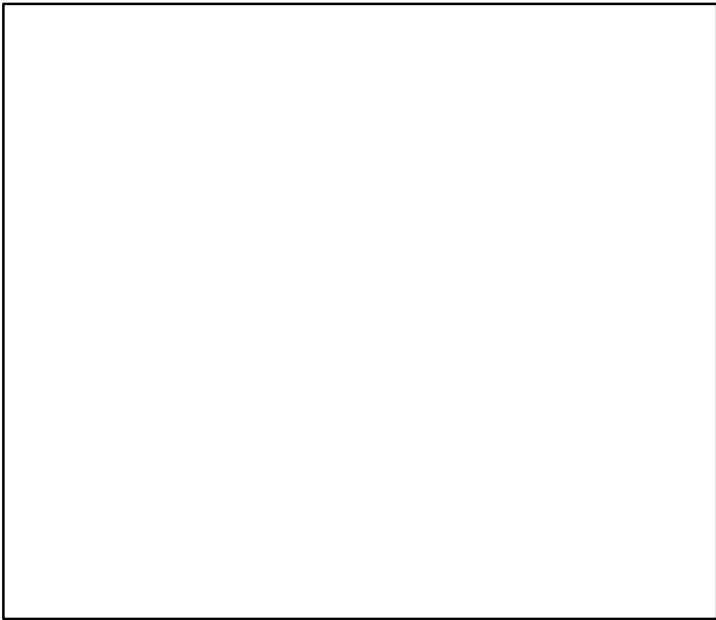
Kobe MSY*



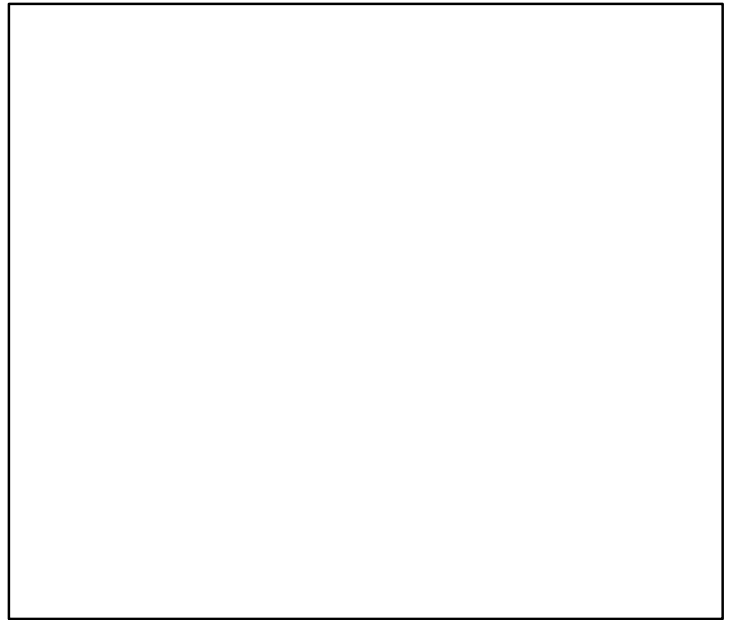
Kobe MGT*



Spawner Recruit*



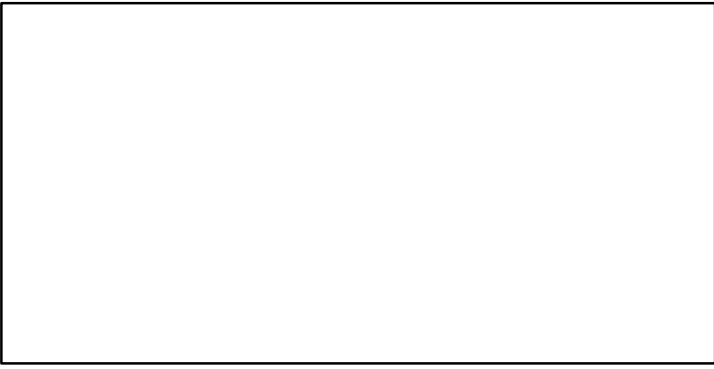
Production*



◆ Start Year ◆ End Year * No Data

Croaker North West Africa Senegal_The Gambia [CROAKSPPNWASEN_GMB]

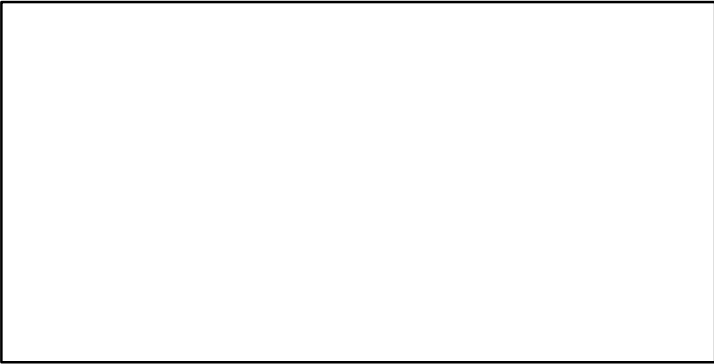
TB*



SSB*



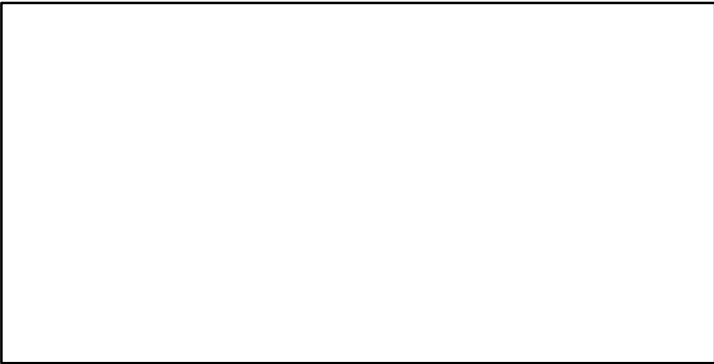
TN *



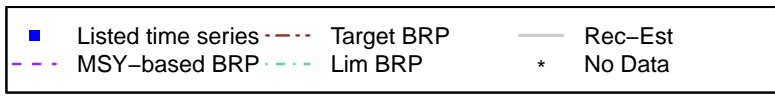
F*



ER*



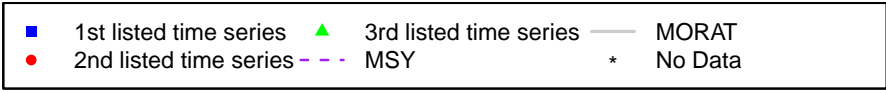
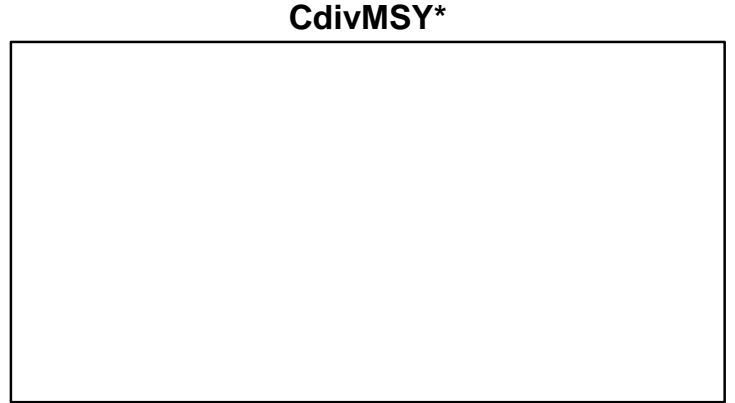
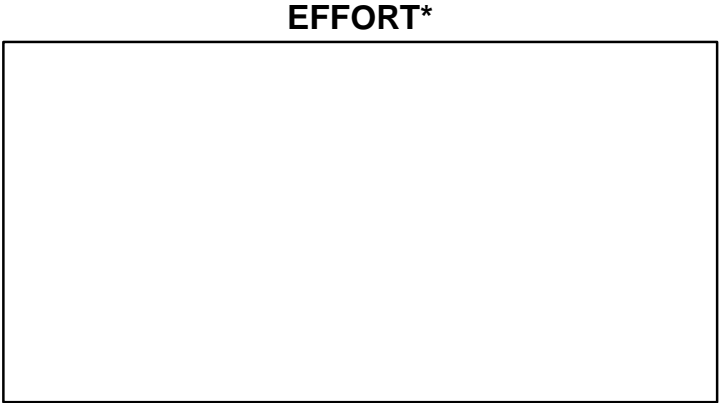
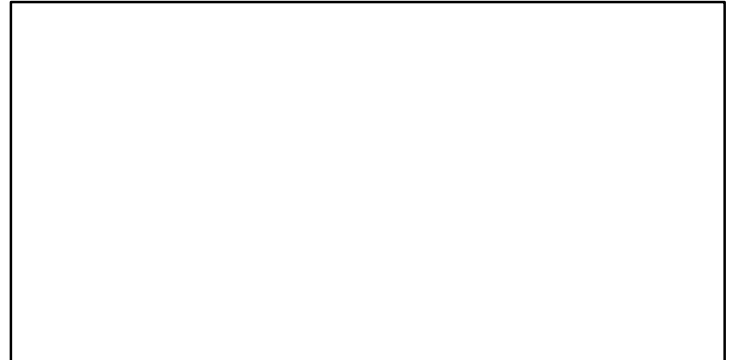
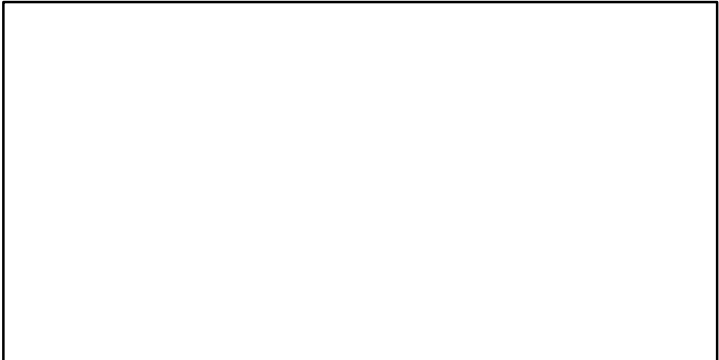
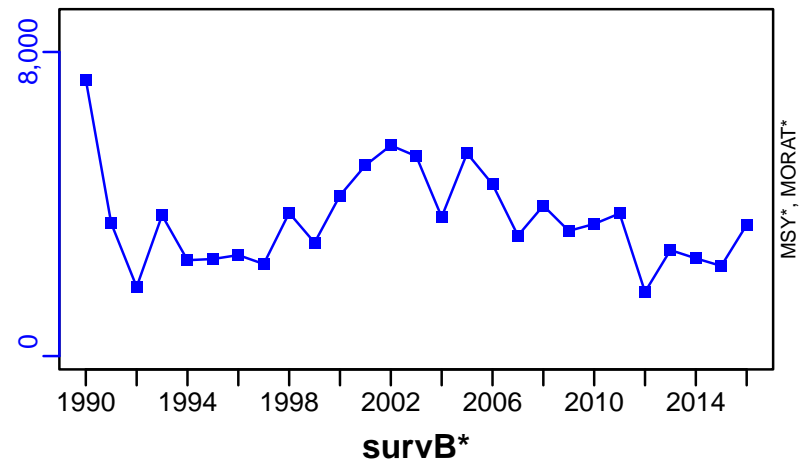
Recruits*



Croaker North West Africa Senegal_The Gambia [CROAKSPPNWASEN_GMB]

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

TAC*, Cpair*, Cadv*



European seabass Gulf of Lions [EBASSGSA7]

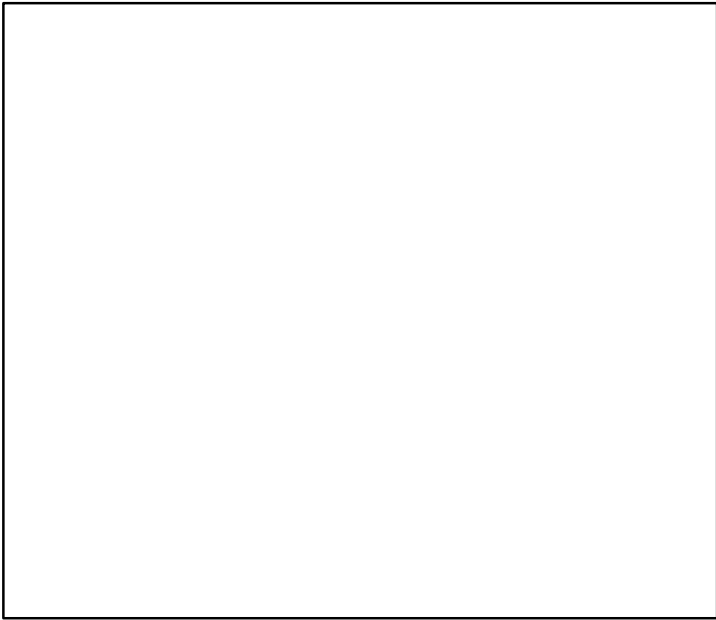
Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	STECF-EBASSGSA7-2002-2015-OSIO
Area	Gulf of Lions
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2015

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	-	-	-

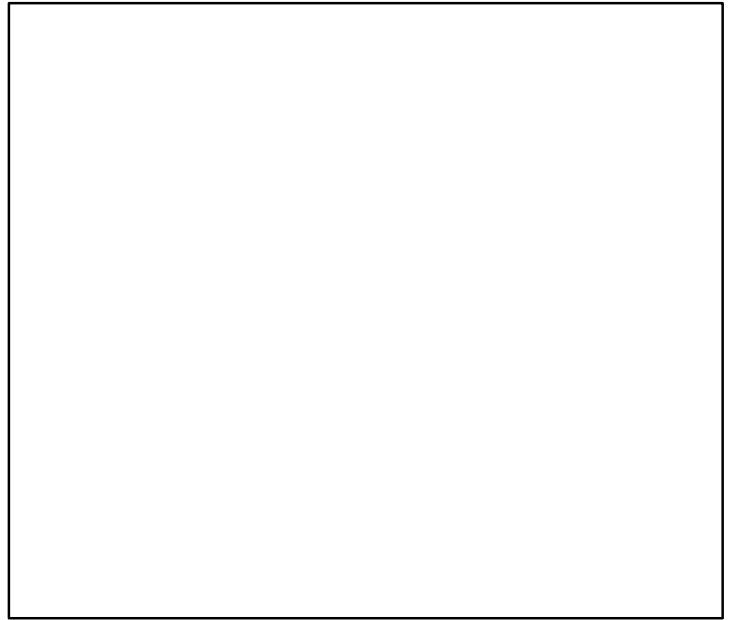
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	246	-	-
TN	-	-	-	-	-
R	R-E00	2015	3.86×10^8	-	-
F	F-1/yr	2015	0.536	-	-
ER	-	-	-	-	-
TC	-	-	-	-	-
TL	TL-MT	2015	272	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	-	-	-	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt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

European seabass Gulf of Lions [EBASSGSA7]

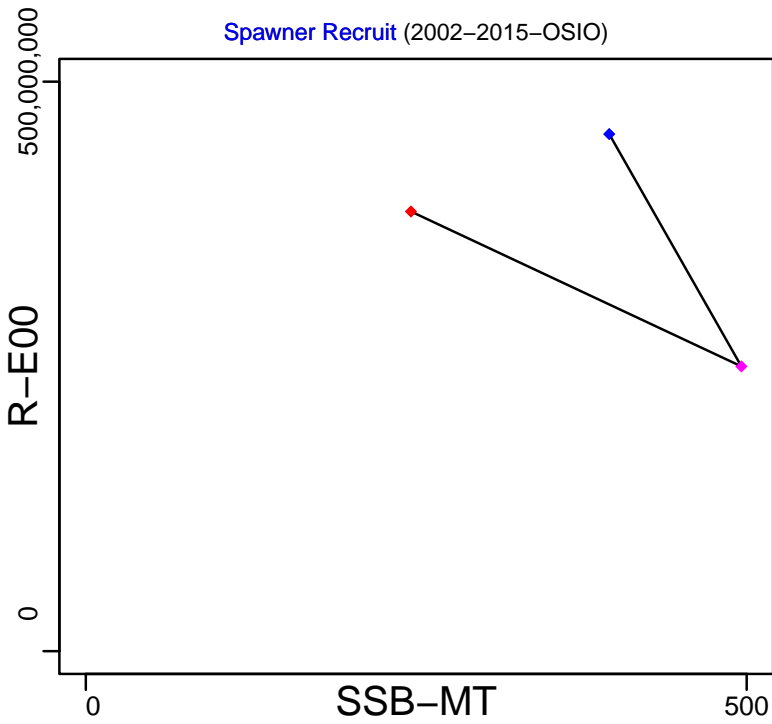
Kobe MSY*



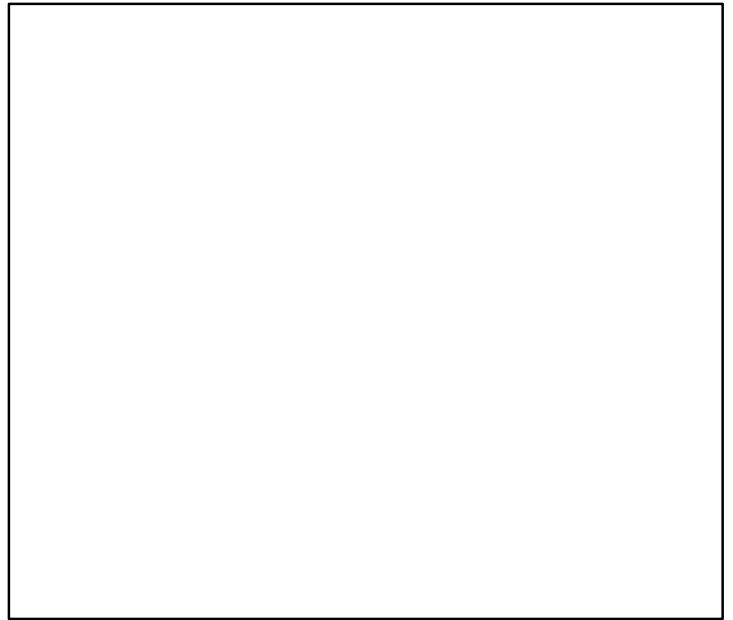
Kobe MGT*



Spawner Recruit (2002-2015-OSIO)



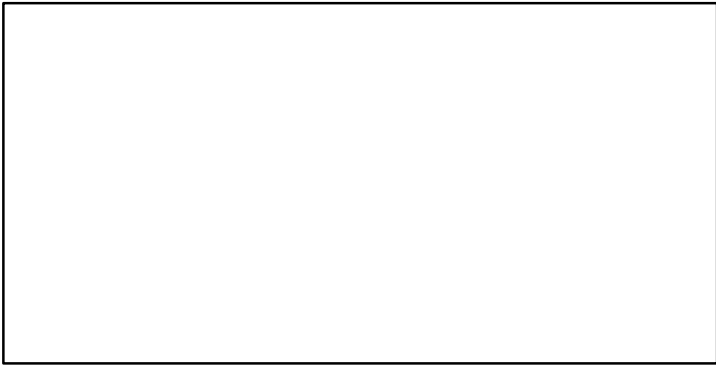
Production*



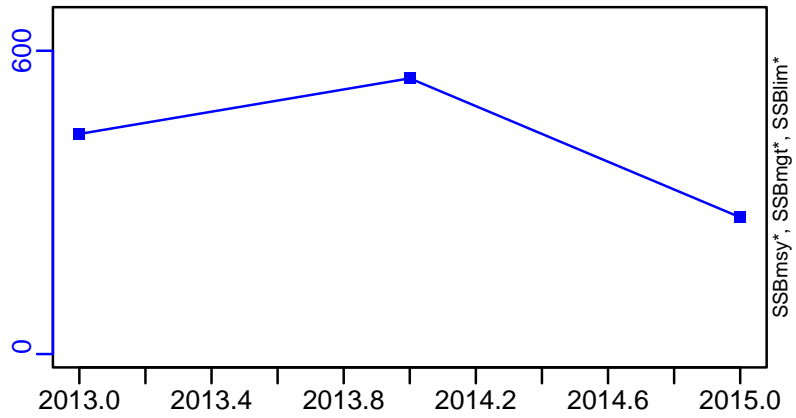
◆ Start Year ◆ End Year * No Data

European seabass Gulf of Lions [EBASSGSA7]

TB*



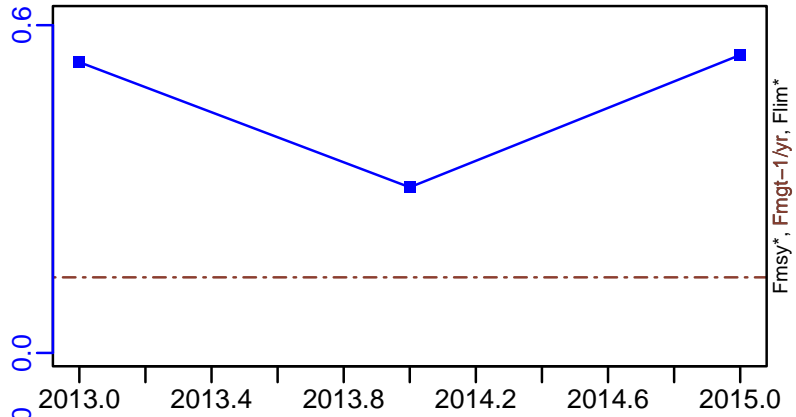
SSB-MT (2002-2015-OSIO)



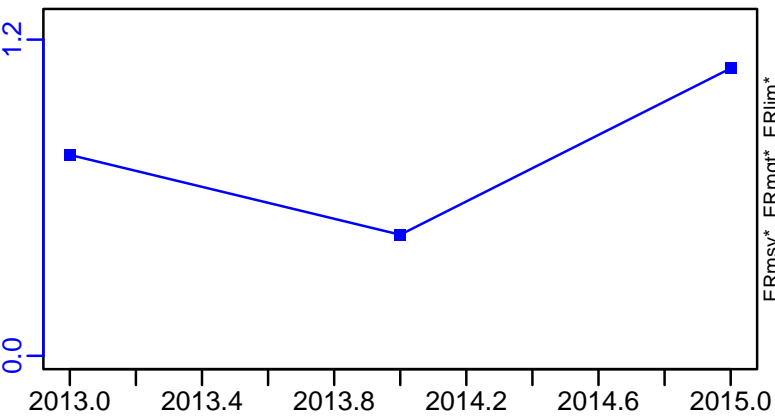
TN *



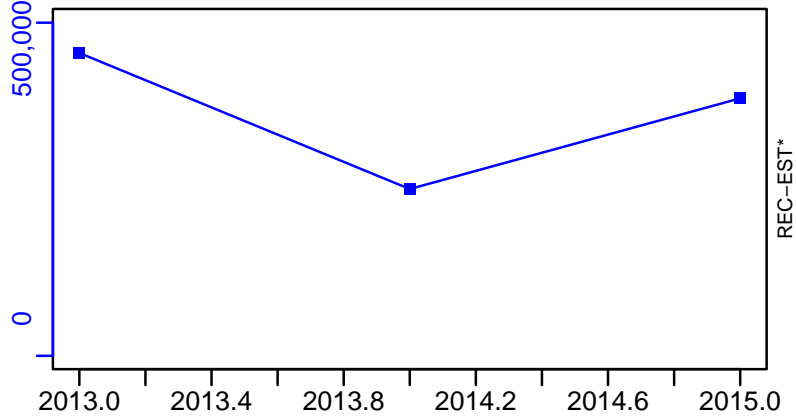
F-1/yr (2002-2015-OSIO)



ER-calc-ratio (2002-2015-OSIO)



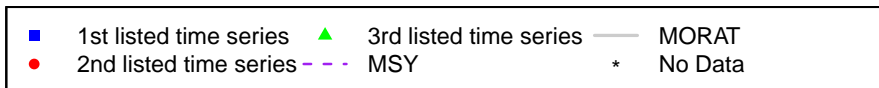
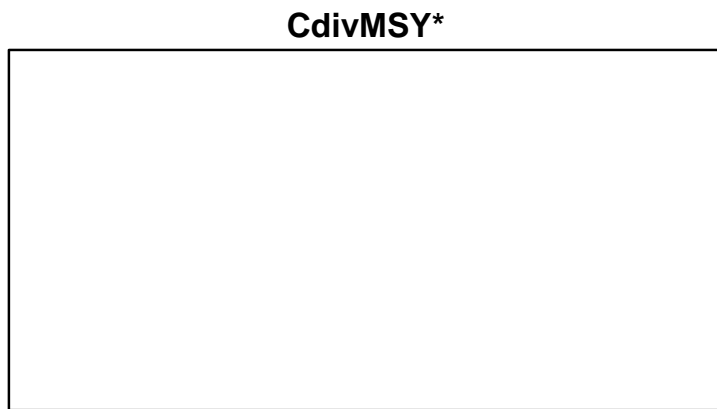
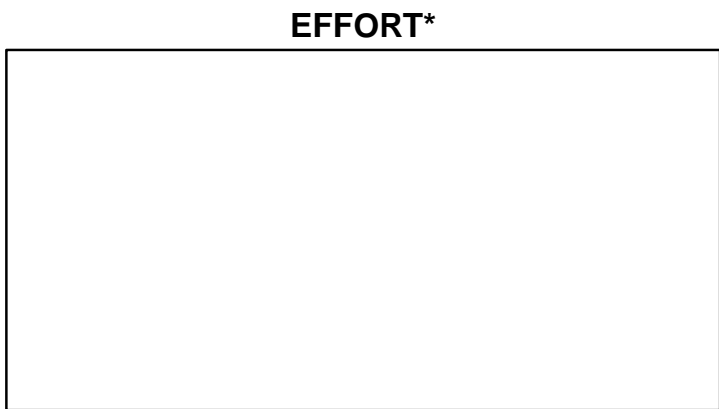
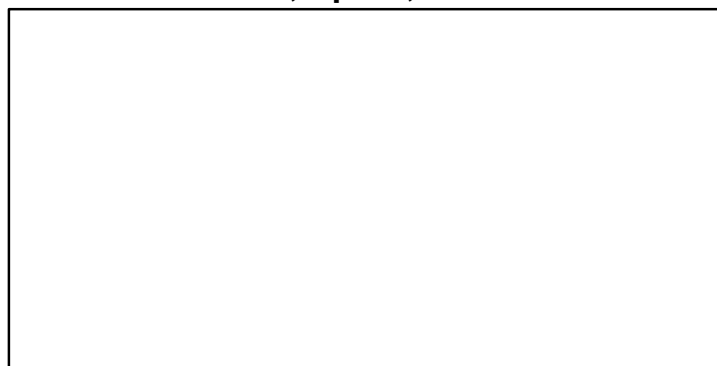
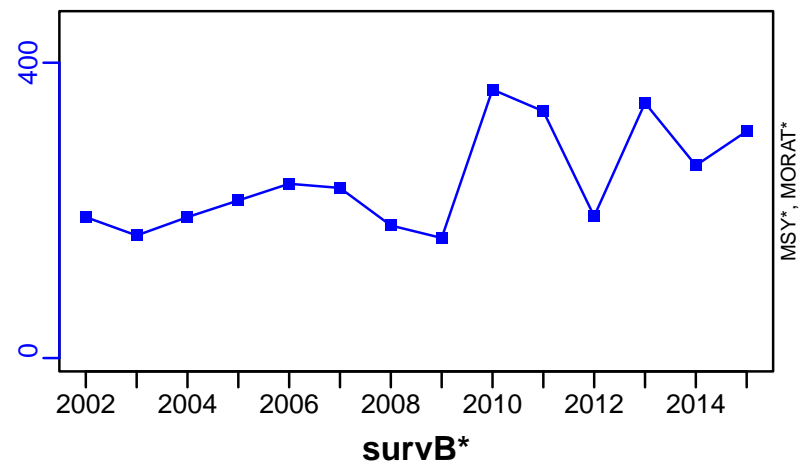
R-E00 (2002-2015-OSIO)



European seabass Gulf of Lions [EBASSGSA7]

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

TAC*, Cpair*, Cadv*



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

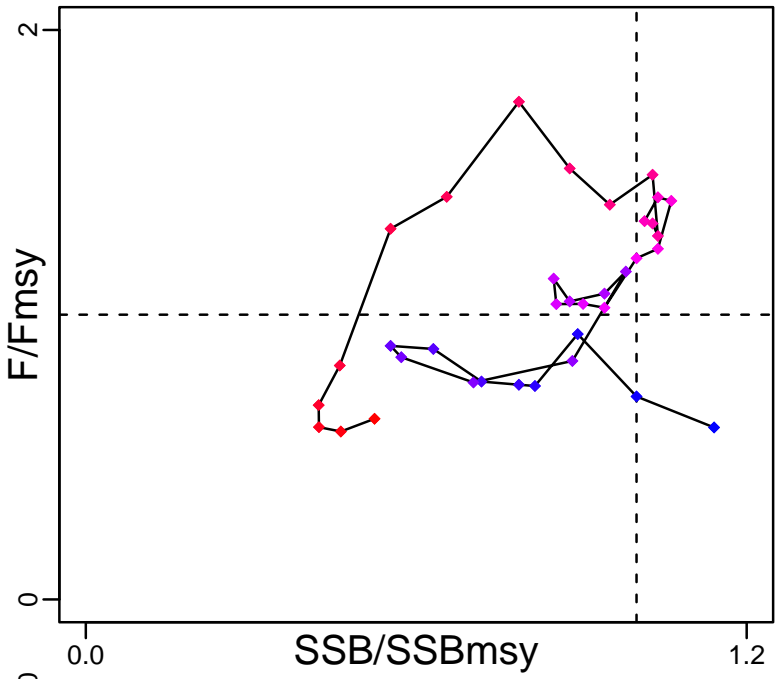
Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGCSE-EBASSIVbc-VII-1985-2021-ICESIMP2021-2
Area	ICES 4bc-7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2020,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

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

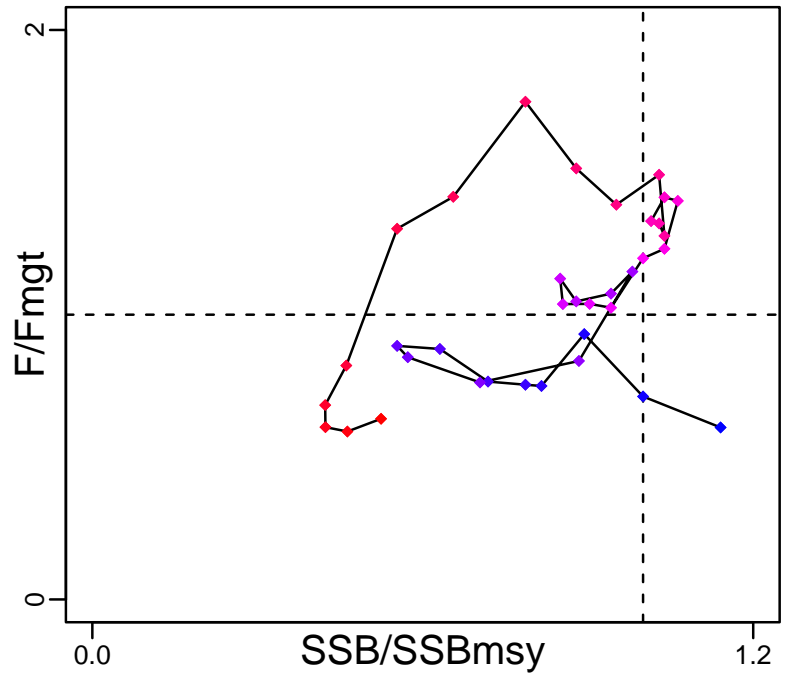
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	10,800	Both	-
SSB	SSB-MT	2021	11,600	-	-
TN	-	-	-	-	-
R	R-E00	2021	9,700,000	-	0
F	F-1/yr	2021	0.109	-	-
ER	ER-calc-ratio	2017	0.106	-	-
TC	TC-MT	2018	1150		
TL	TL-MT	2021	1040		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

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

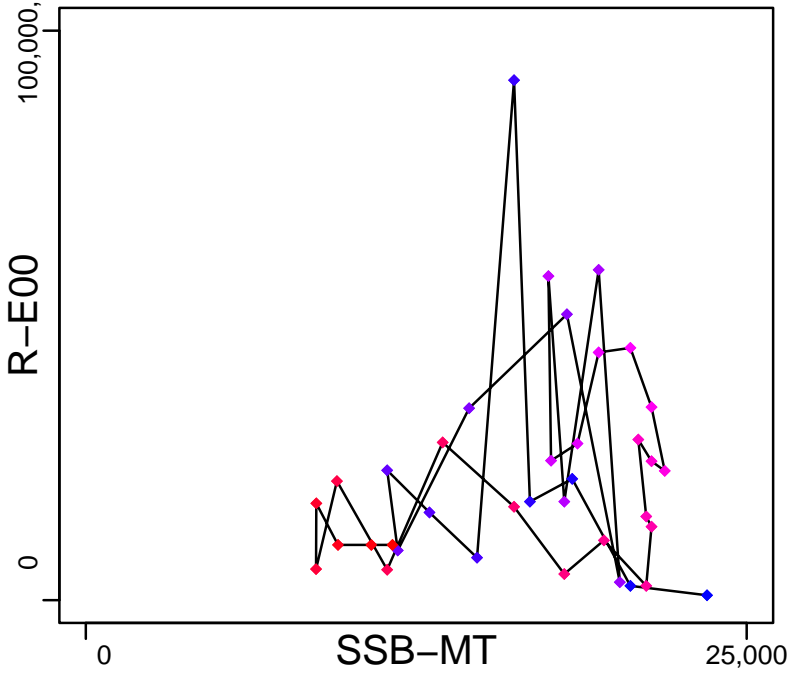
Kobe MSYpref (1985-2021-ICESIMP2021-2)



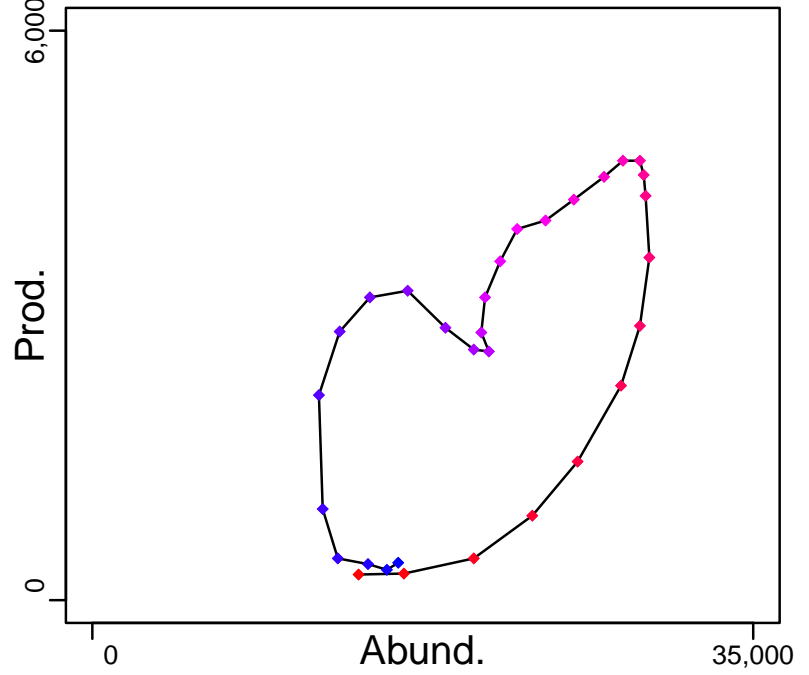
Kobe MGTpref (1985-2021-ICESIMP2021-2)



Spawner Recruit (1985-2021-ICESIMP2021-2)



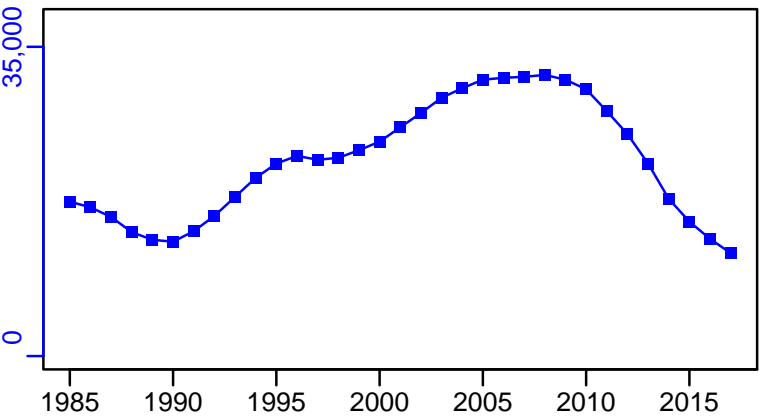
Production (1985-2021-ICESIMP2021-2)



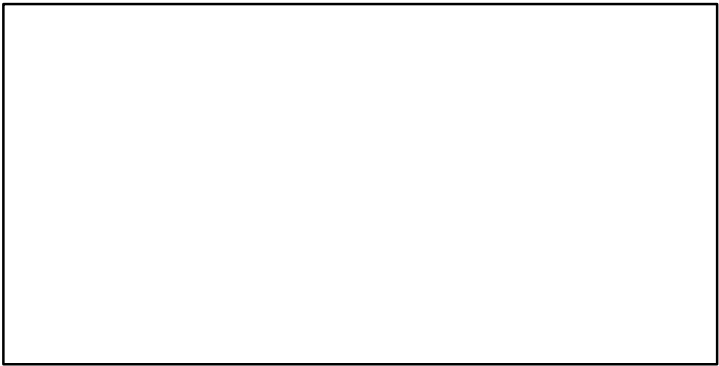
◆ Start Year ◆ End Year * No Data

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

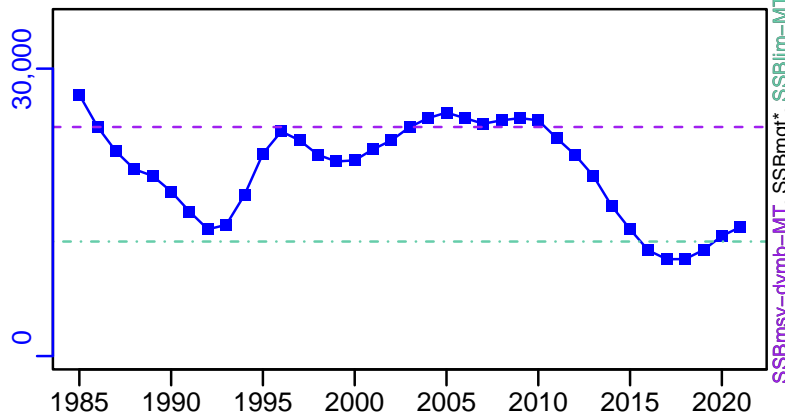
TB-MT (1985-2017-ICESIMP2018)



TN *

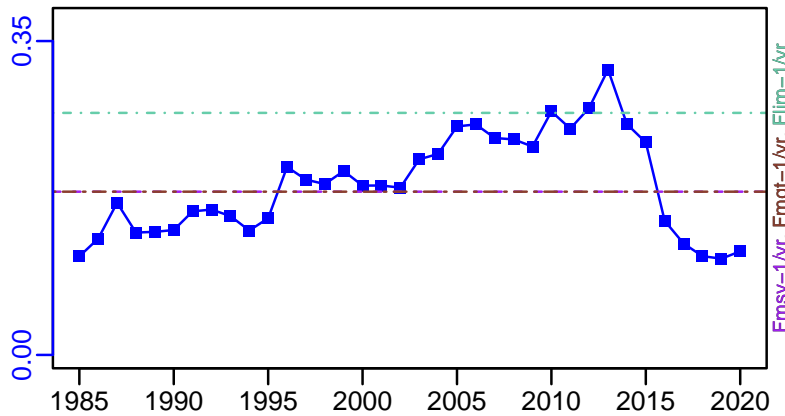


SSB-MT (1985-2021-ICESIMP2021-2)



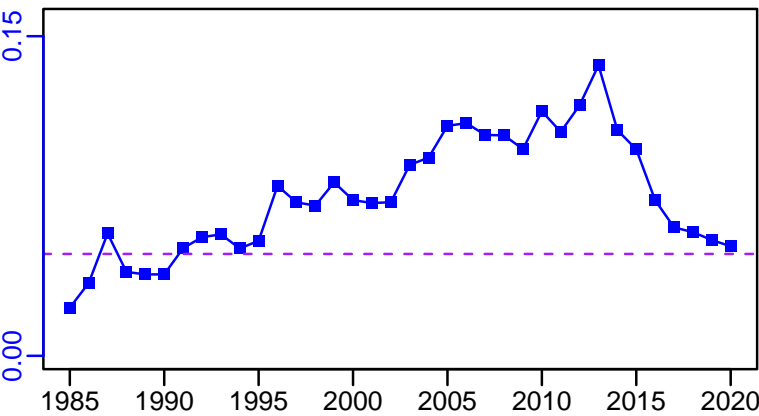
SSBmsy-dvmb-MT, SSBmgt*, SSBlim-MT

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



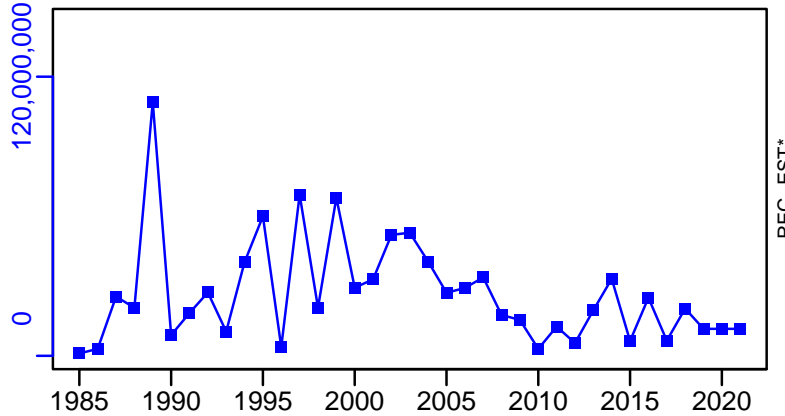
Fmsy-1/yr, Fmgt-1/yr, Flim-1/yr

ER-calc-ratio (1985-2021-ICESIMP2021-2)

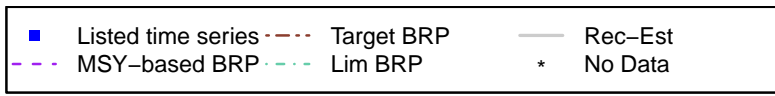


ERmsy-est-ratio, ERmgt*, ERlim*

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



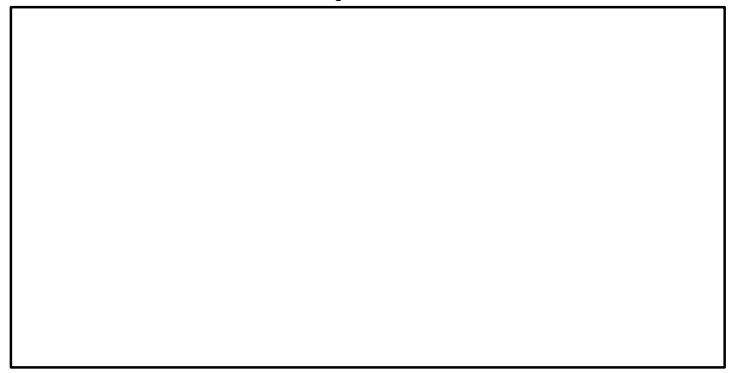
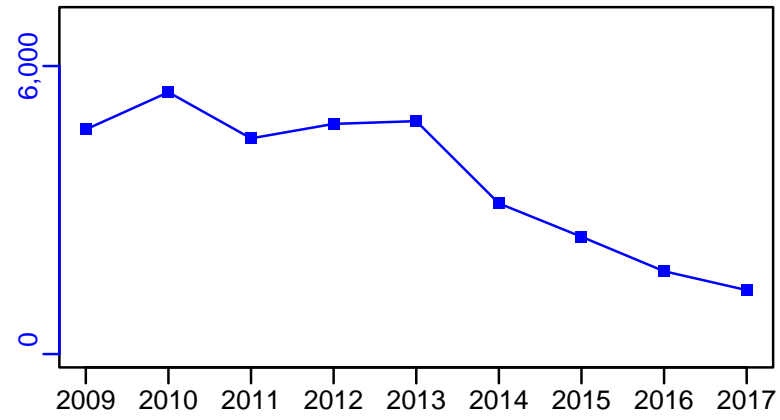
REC-EST*



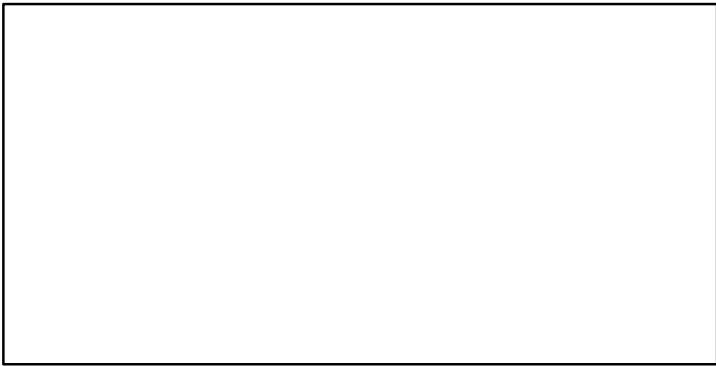
European seabass ICES 4bc-7 [EBASSIVbc-VII]

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

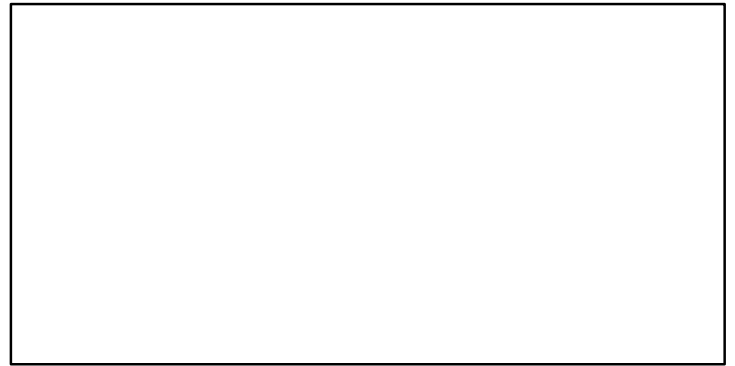
TAC*, Cpair*, Cadv*



survB*



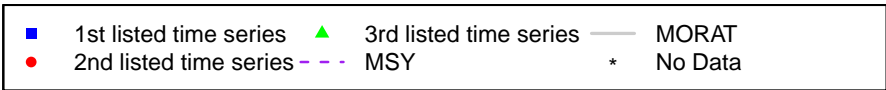
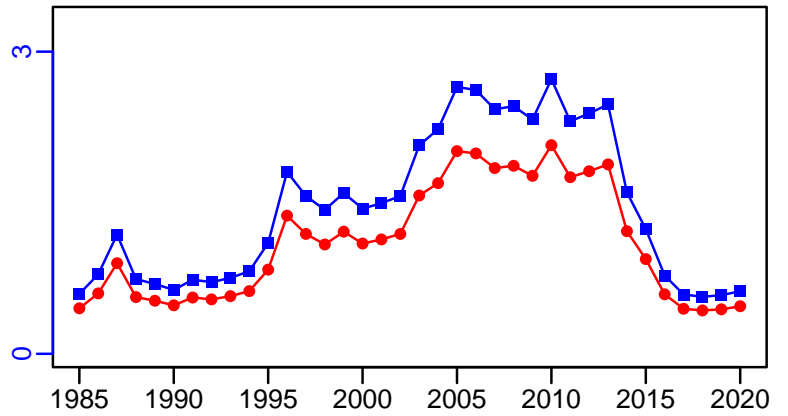
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1985-2021-ICESIMP2021-2)



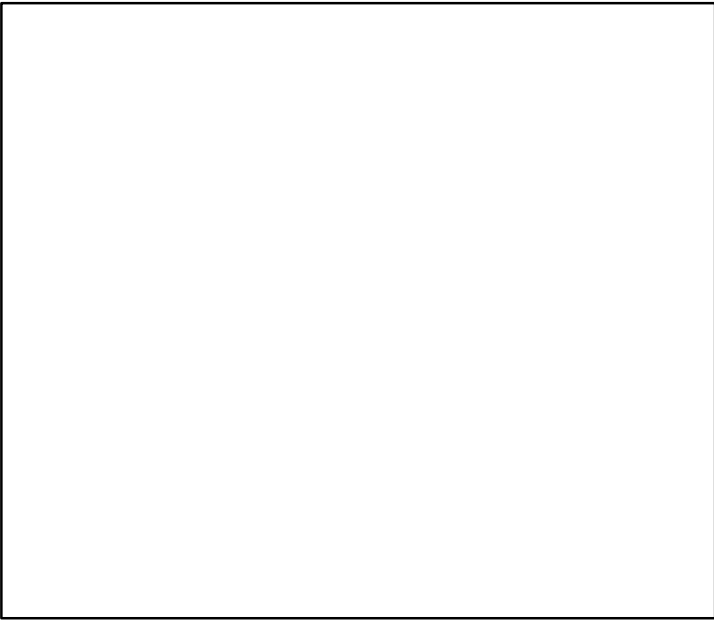
European seabass ICES 6a-7b-j [EBASSVIa-VIIb-j]

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

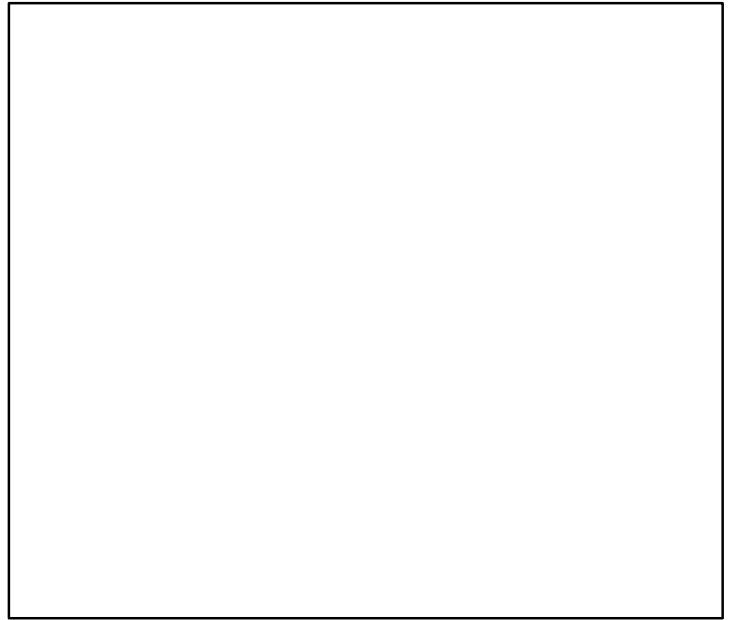
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

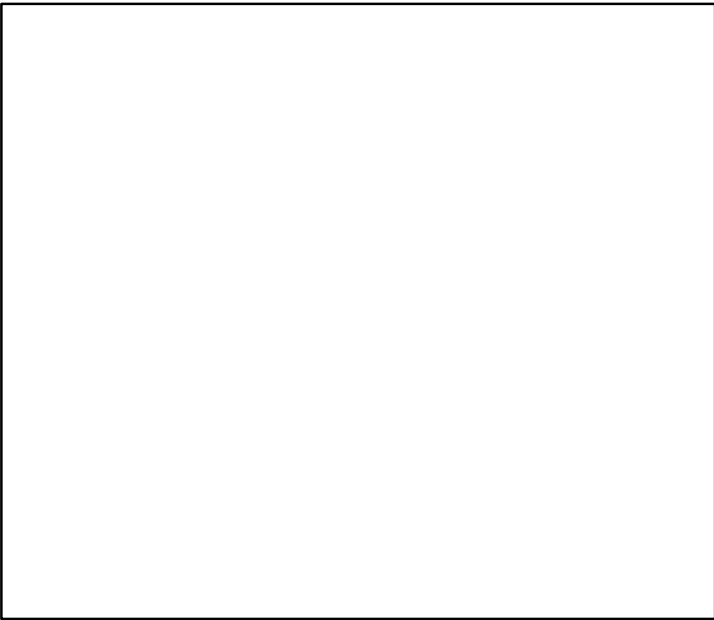
Kobe MSY*



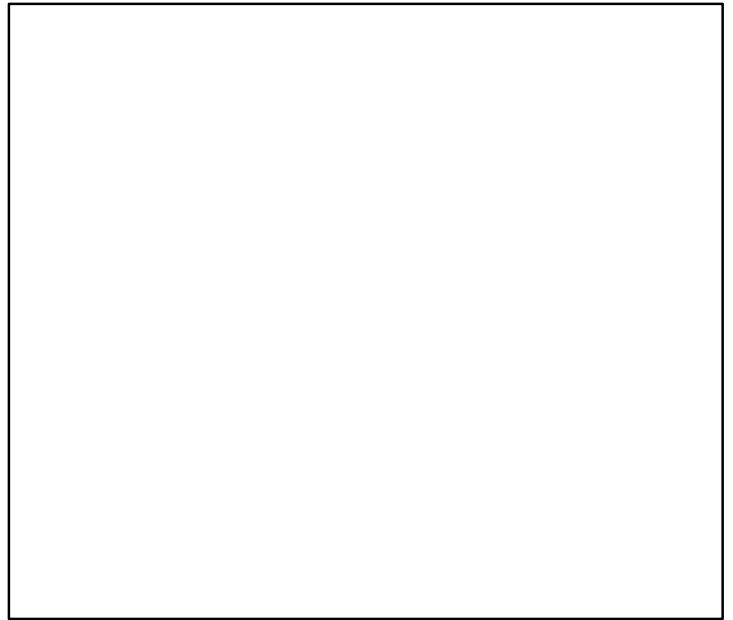
Kobe MGT*



Spawner Recruit*



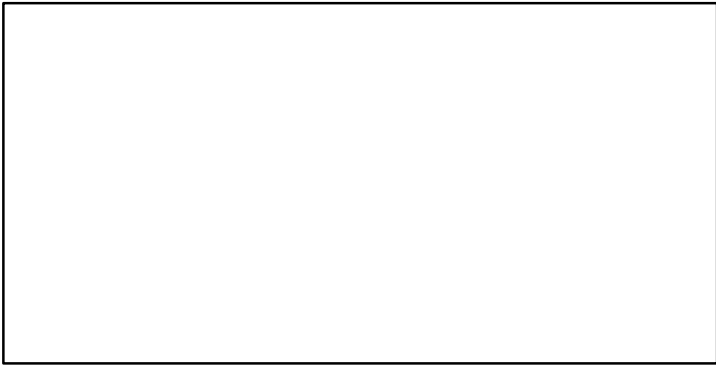
Production*



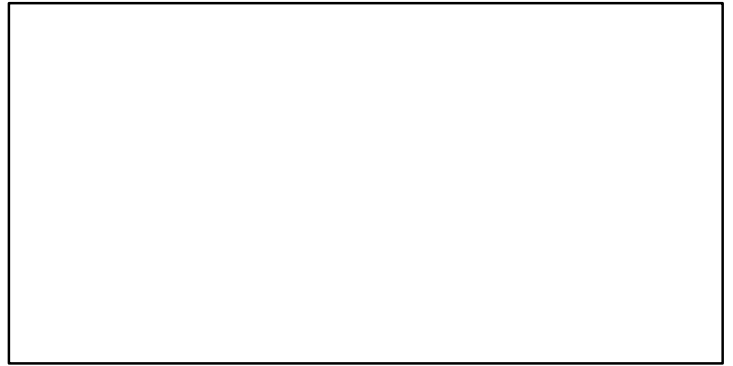
◆ Start Year ◆ End Year * No Data

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

TB*



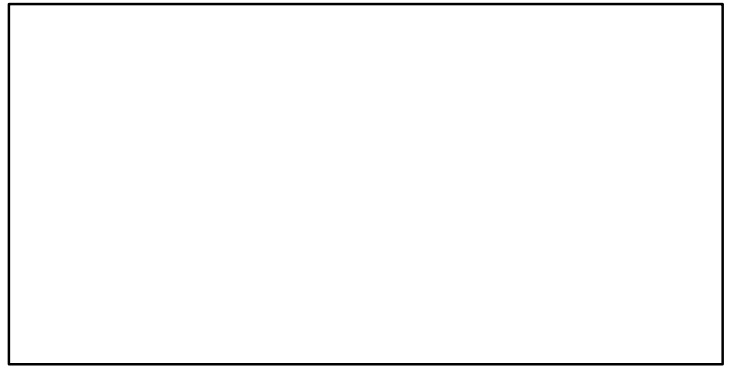
SSB*



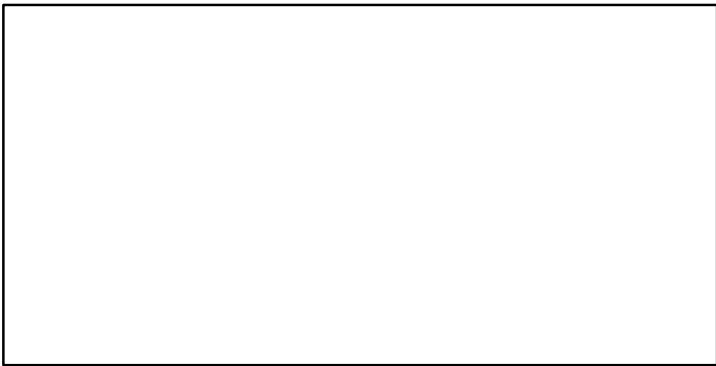
TN *



F*



ER*



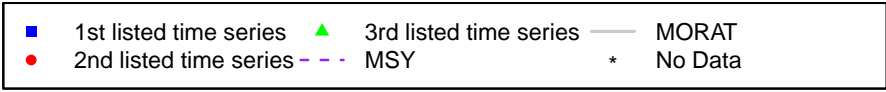
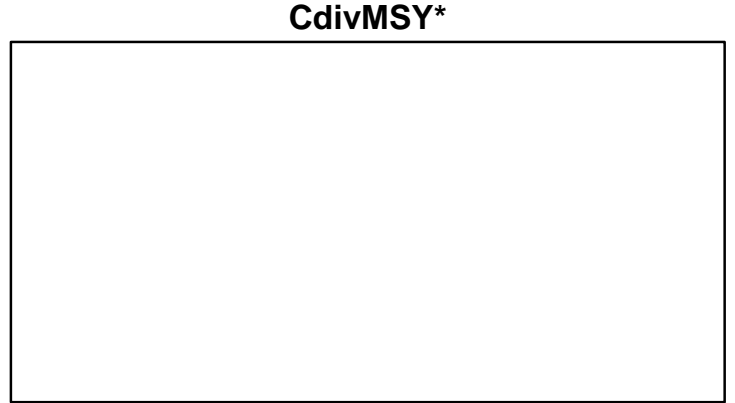
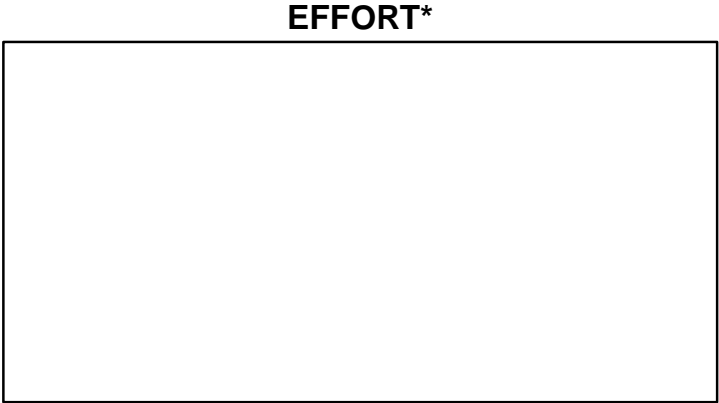
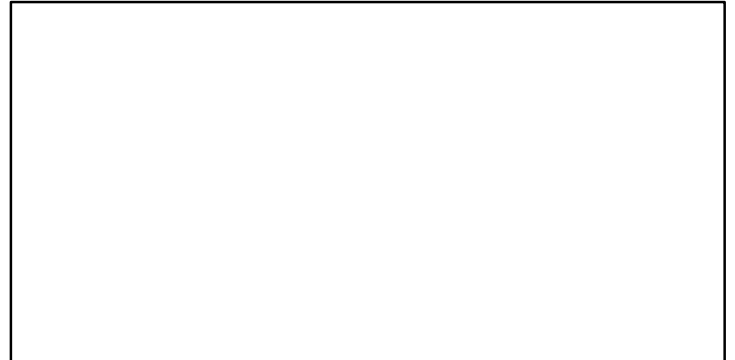
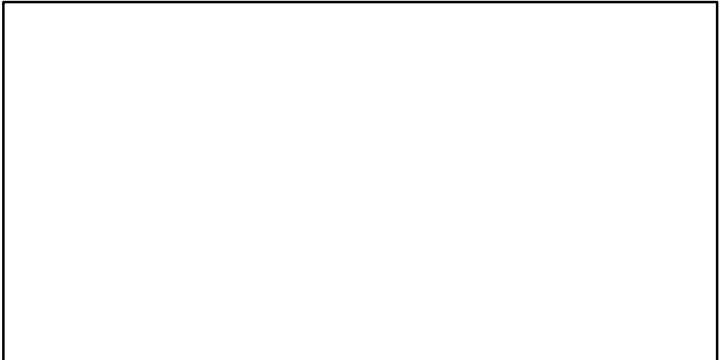
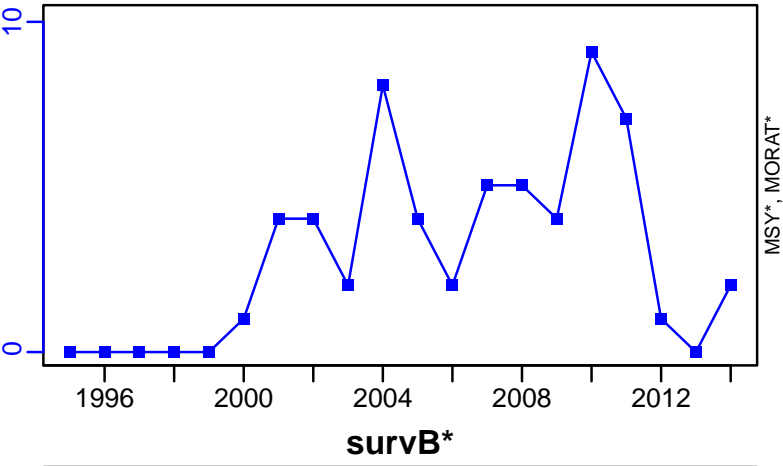
Recruits*



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

TC-MT, TL*, RecC* (1995-2015-ICESIMP2016)

TAC*, Cpair*, Cadv*



European seabass ICES 8ab [EBASSVIIIab]

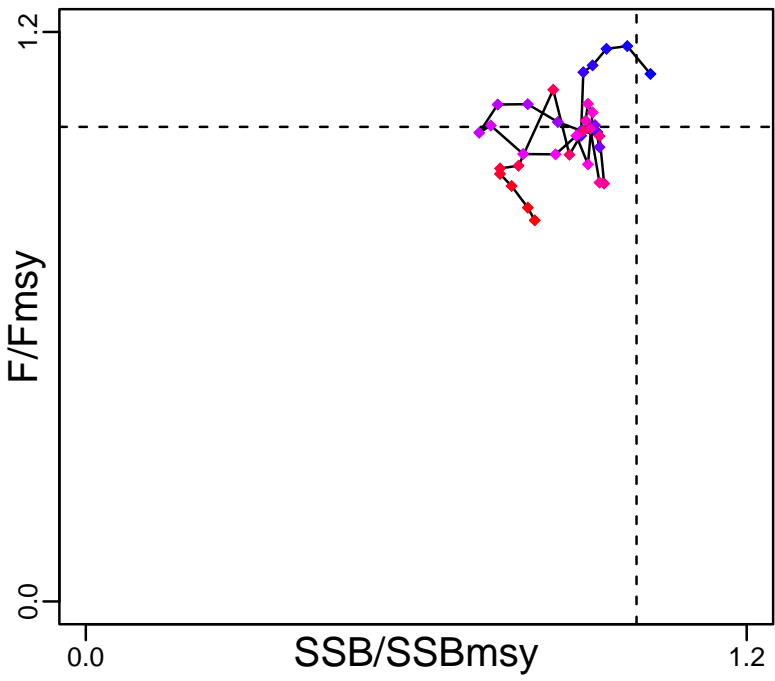
Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGBIE-EBASSVIIIab-1985-2021-ICESIMP2021-2
Area	ICES 8ab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2019, 2020, 2021,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

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

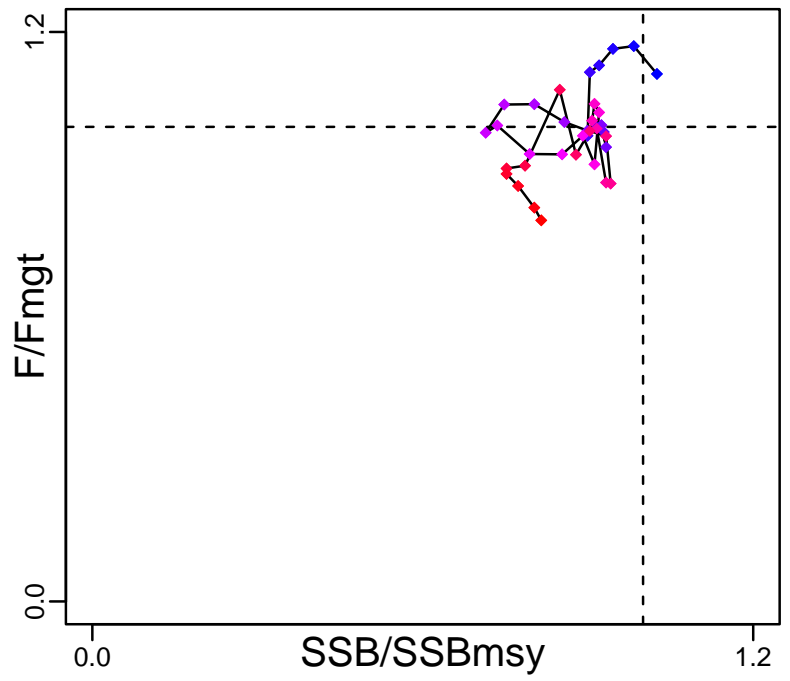
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	18,600	-	-
TN	-	-	-	-	-
R	R-E00	2021	17,900,000	-	0
F	F-1/yr	2021	0.111	-	-
ER	-	-	-	-	-
TC	TC-MT	2021	2130		
TL	TL-MT	2021	2090		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.803		
ER/ERmsy	-	-	-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

European seabass ICES 8ab [EBASSVIIIab]

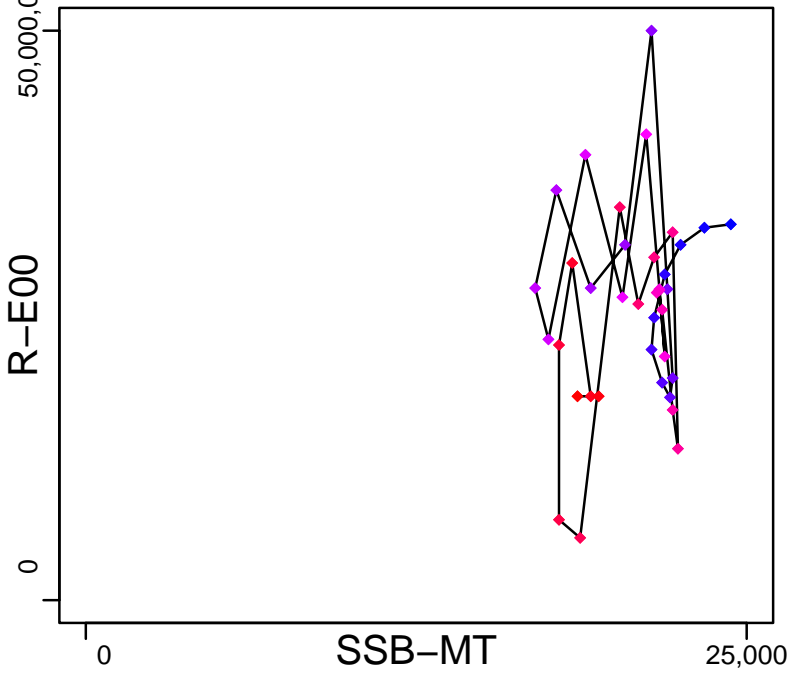
Kobe MSYpref (1985–2021–ICESIMP2021–2)



Kobe MGTpref (1985–2021–ICESIMP2021–2)



Spawner Recruit (1985–2021–ICESIMP2021–2)



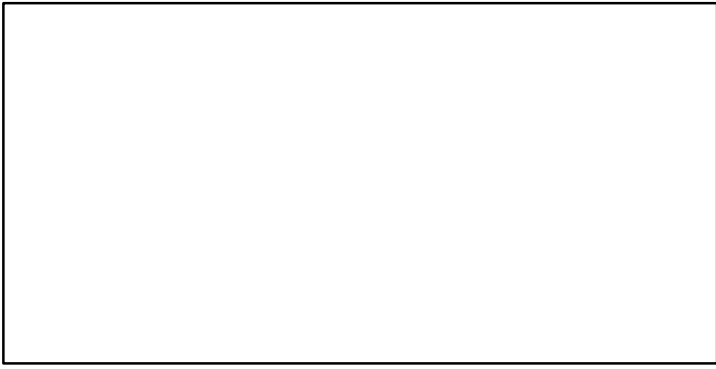
Production*



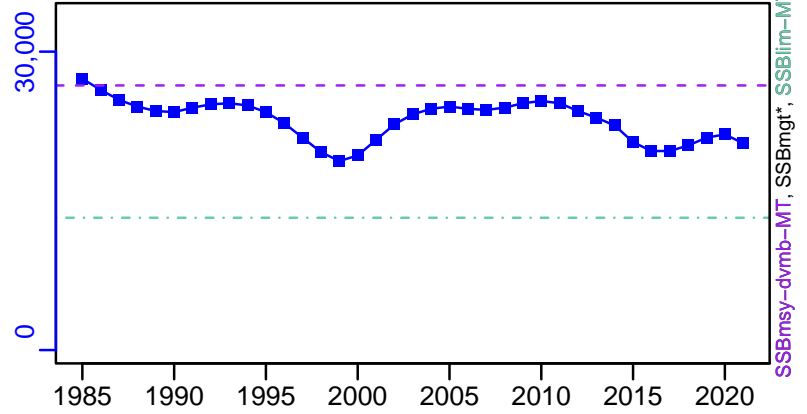
◆ Start Year ◆ End Year * No Data

European seabass ICES 8ab [EBASSVIIIab]

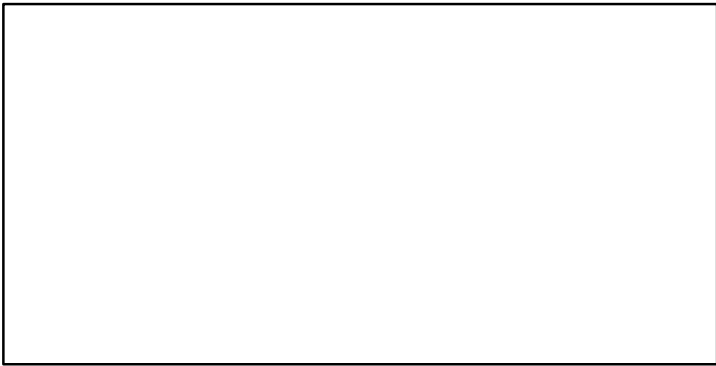
TB*



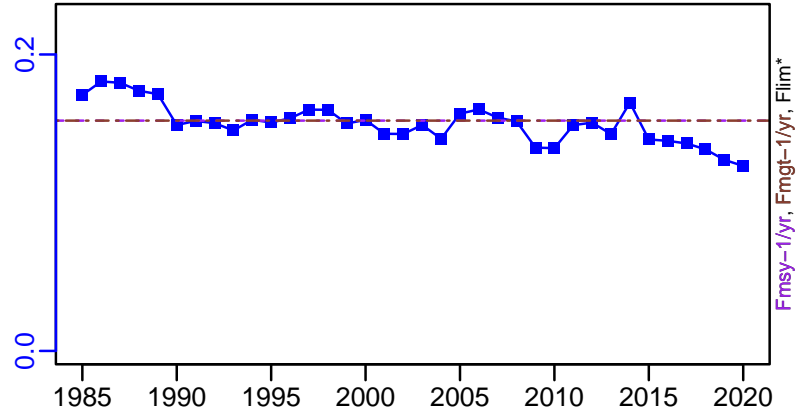
SSB-MT (1985-2021-ICESIMP2021-2)



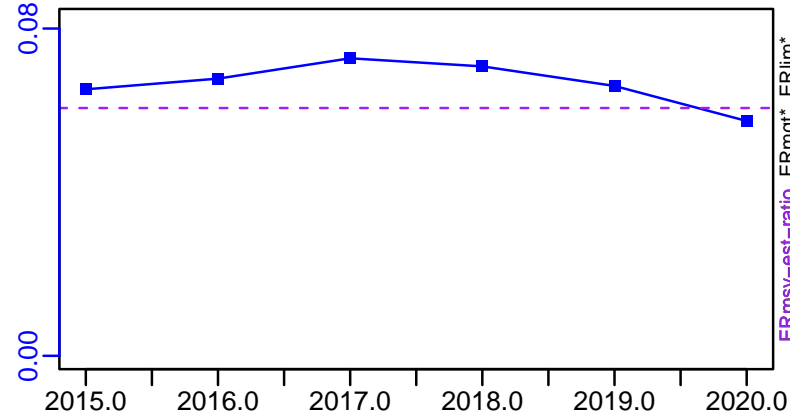
TN *



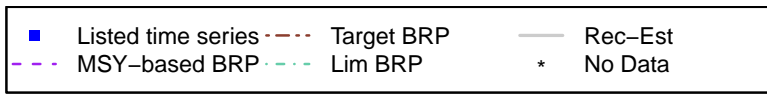
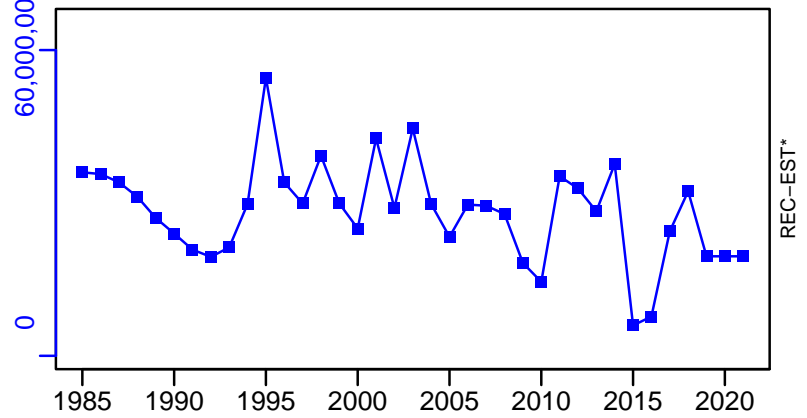
F-1/yr (1985-2021-ICESIMP2021-2)



ER-calc-ratio (1985-2021-ICESIMP2021-2)



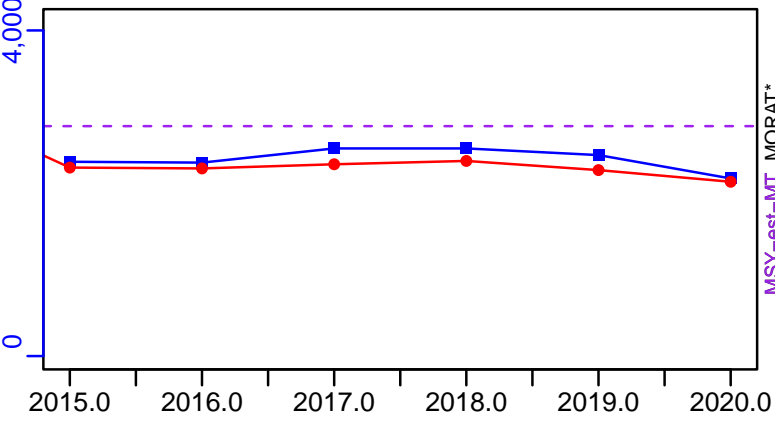
R-E00 (1985-2021-ICESIMP2021-2)



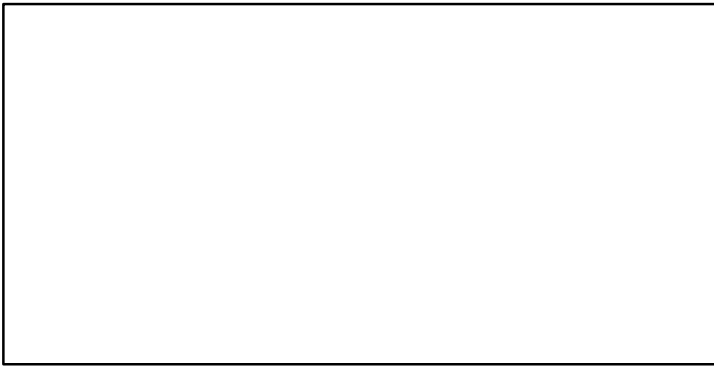
European seabass ICES 8ab [EBASSVIIIab]

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

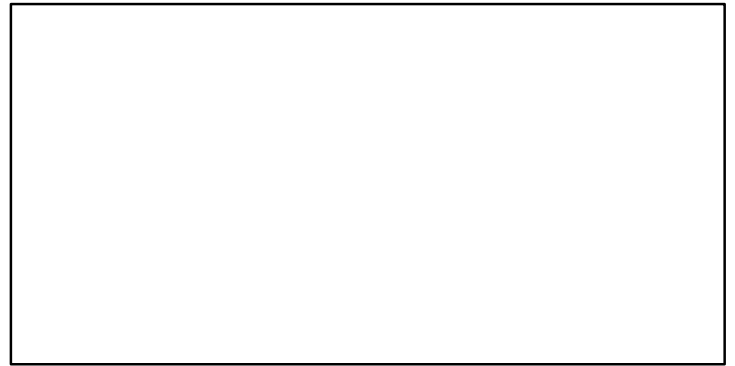
TAC*, Cpair*, Cadv*



survB*



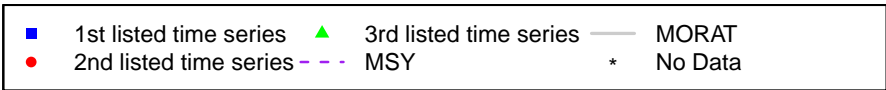
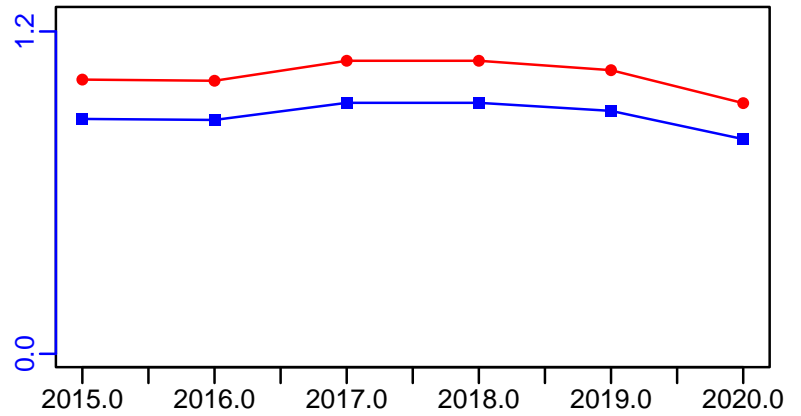
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1985-2021-ICESIMP2021-2)



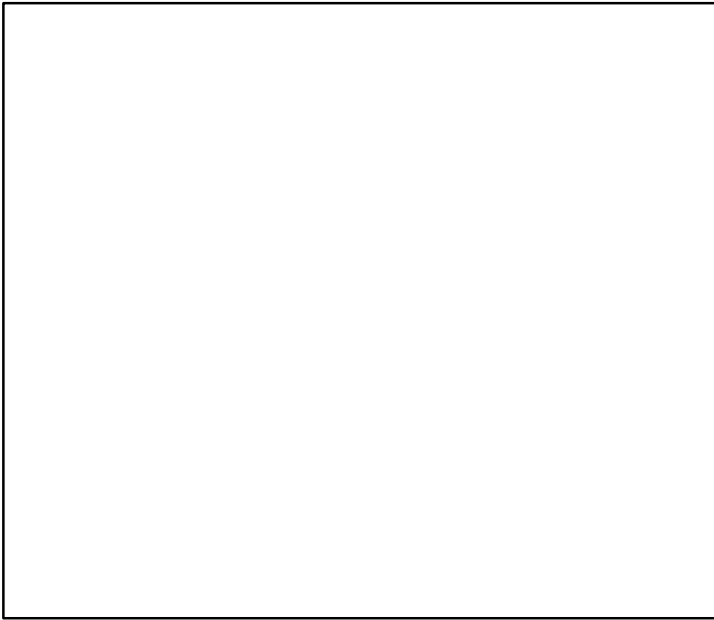
European seabass ICES 8c-9a [EBASSVIIIc-IXa]

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

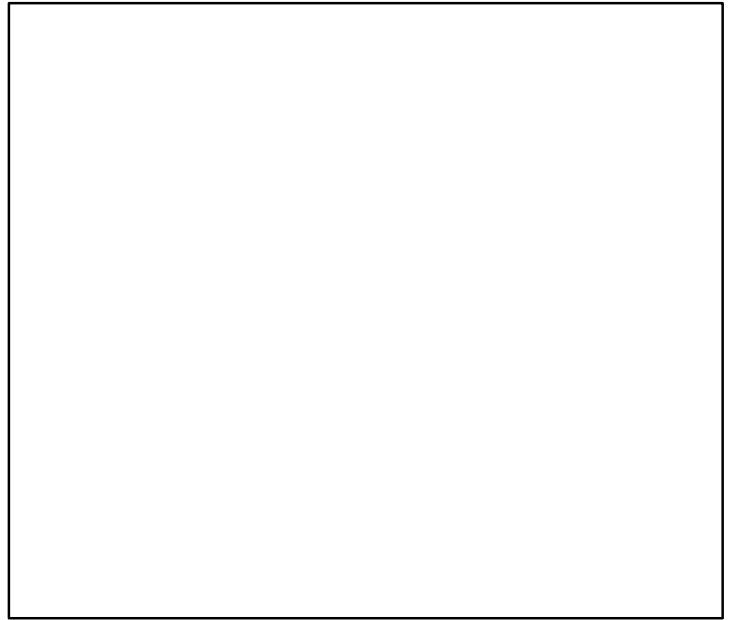
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

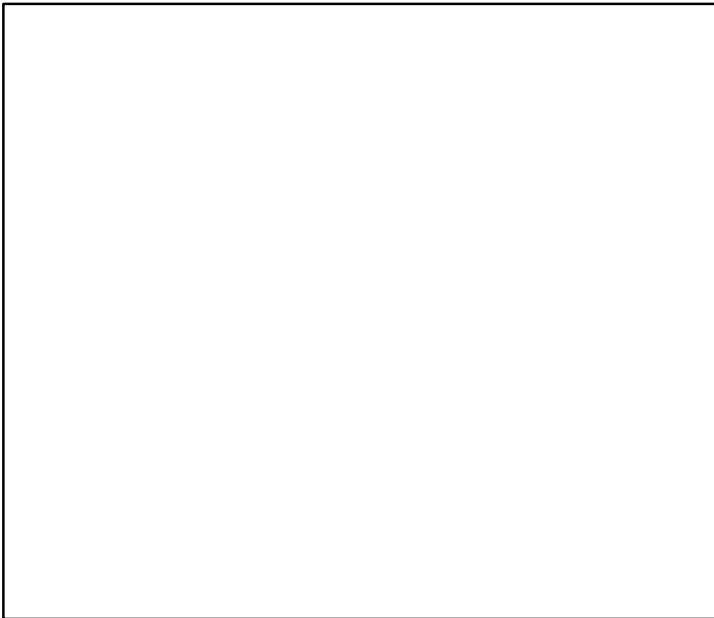
Kobe MSY*



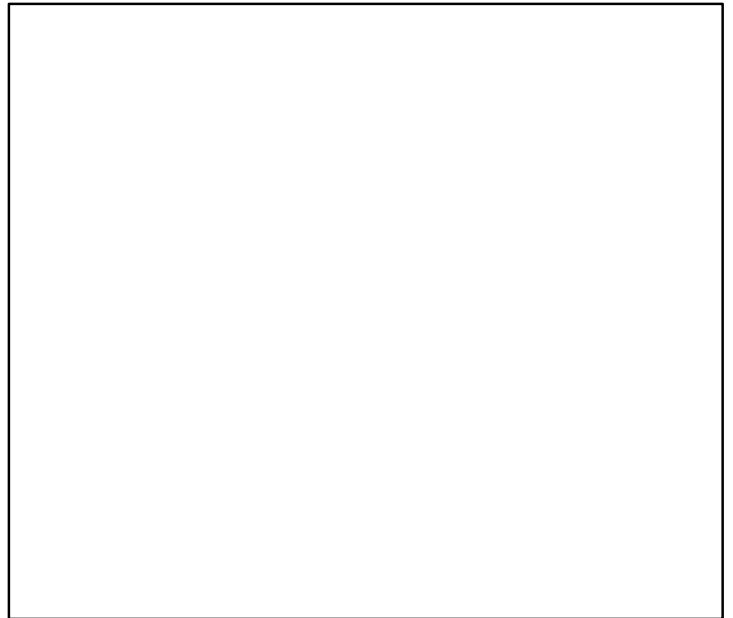
Kobe MGT*



Spawner Recruit*



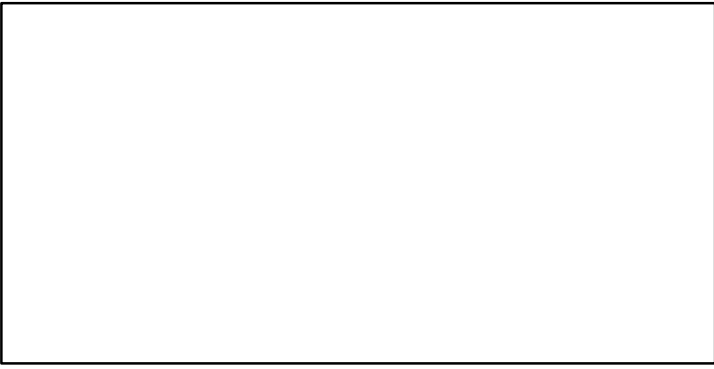
Production*



◆ Start Year ◆ End Year * No Data

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

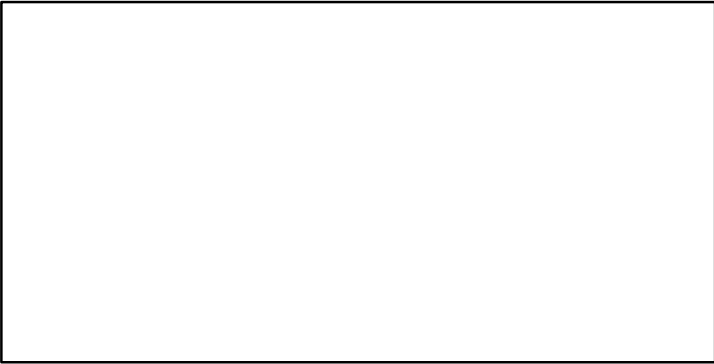
TB*



SSB*



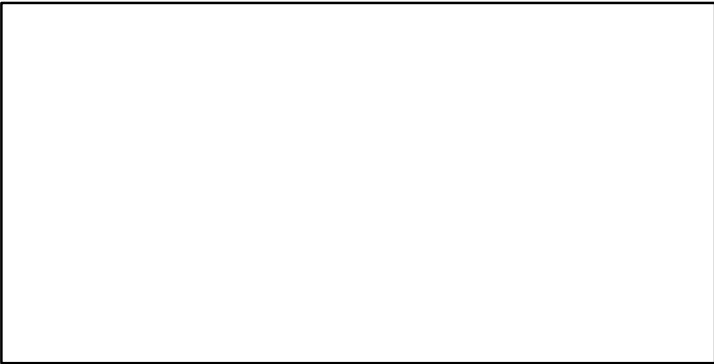
TN *



F*



ER*



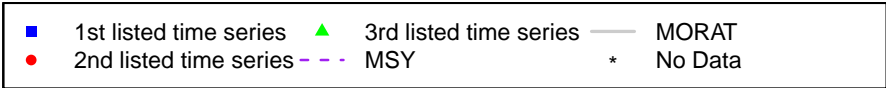
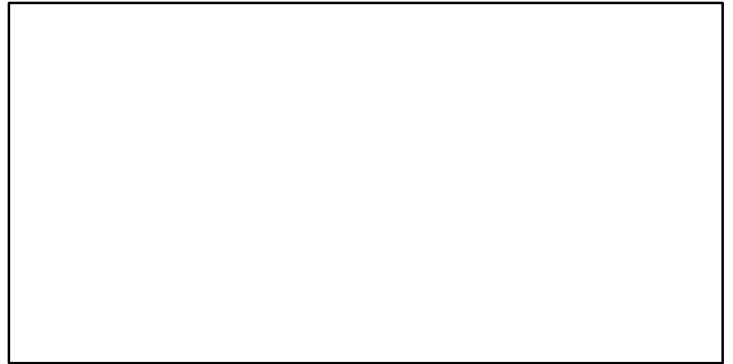
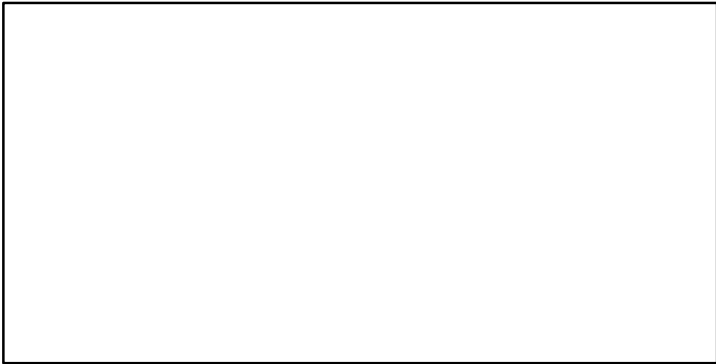
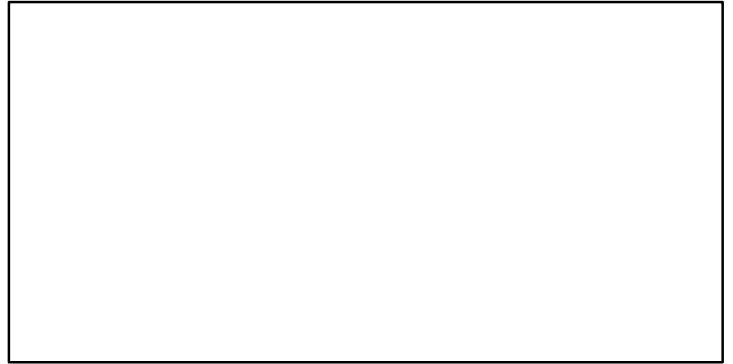
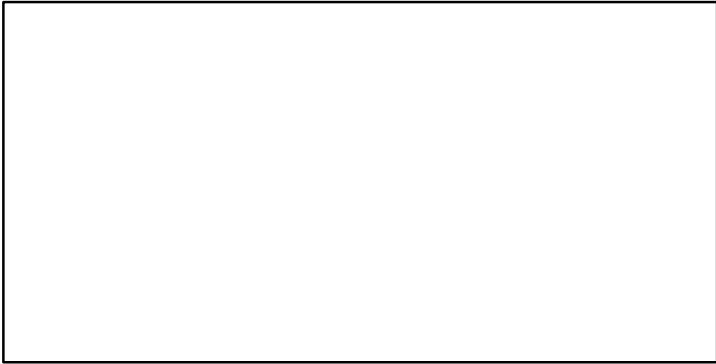
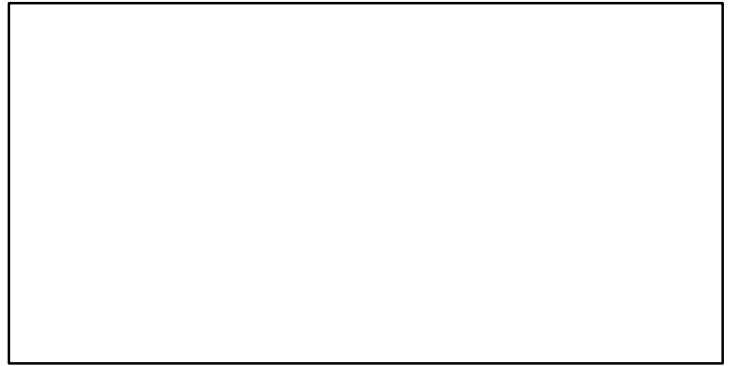
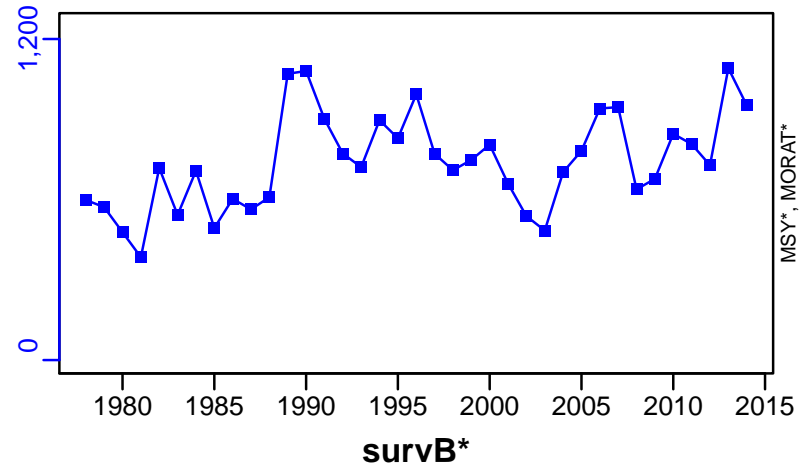
Recruits*



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

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

TAC*, Cpair*, Cadv*



Flame snapper Okinawa Islands [FSNAPOKWI]

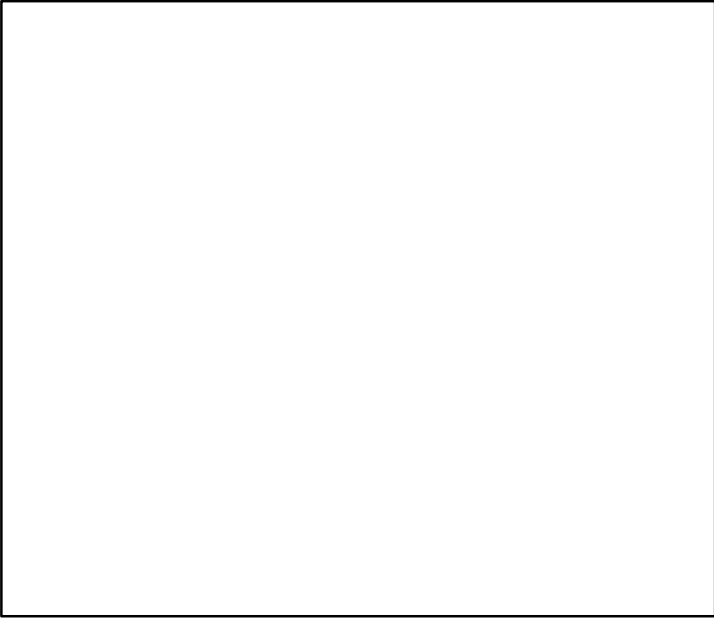
Metadata	
Scientific Name	Etelis coruscans
Current Assess ID	FAFRFJ-FSNAPOKWI-1989-2013-JPNIMP2016
Area	Okinawa Islands
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

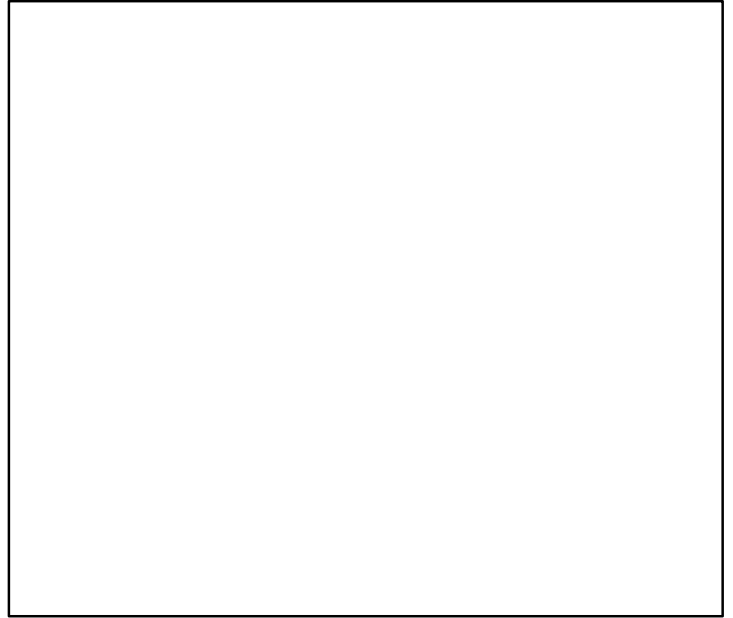
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	103		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Flame snapper Okinawa Islands [FSNAPOKWI]

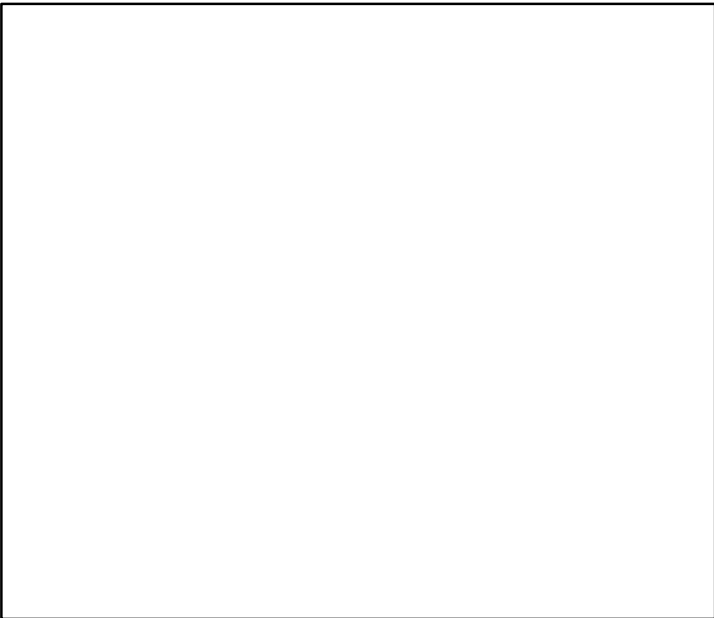
Kobe MSY*



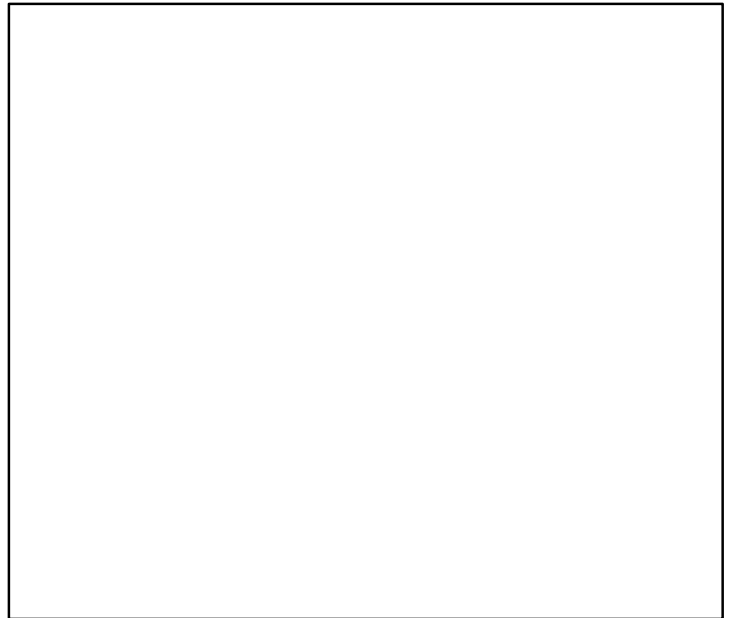
Kobe MGT*



Spawner Recruit*



Production*



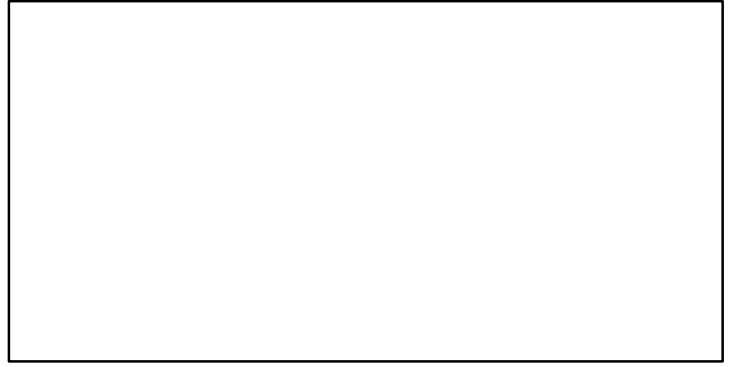
◆ Start Year ◆ End Year * No Data

Flame snapper Okinawa Islands [FSNAPOKWI]

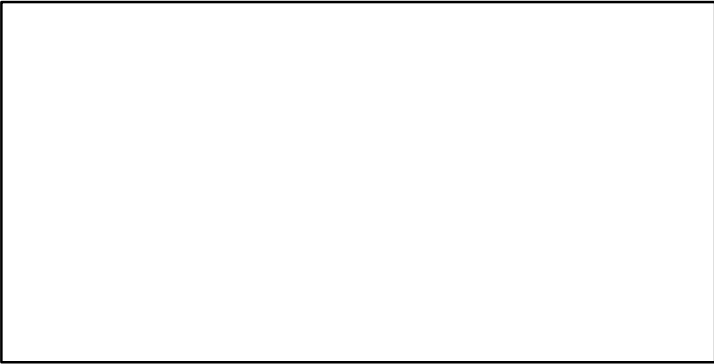
TB*



SSB*



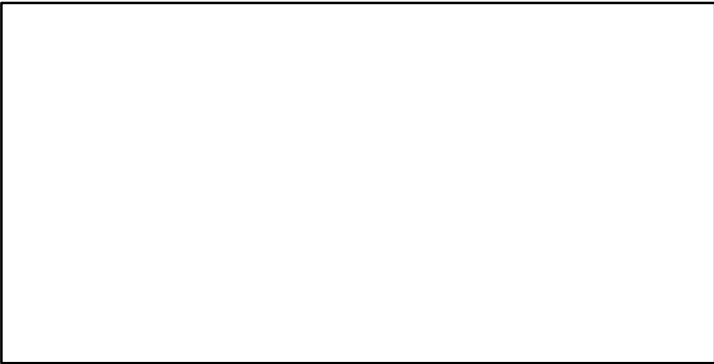
TN *



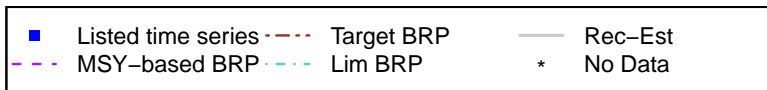
F*



ER*



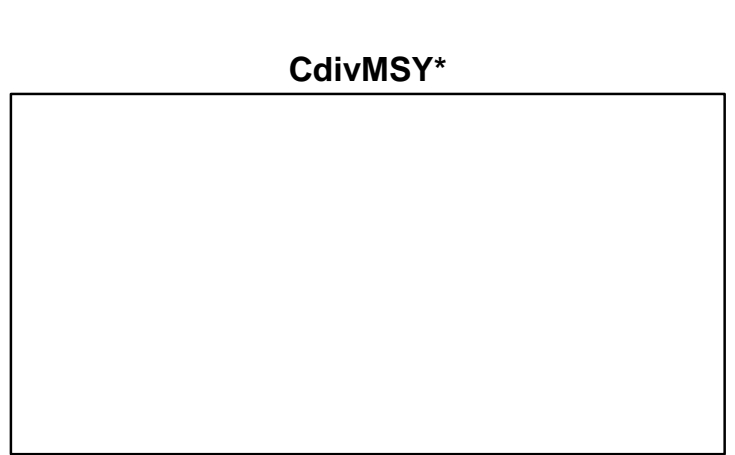
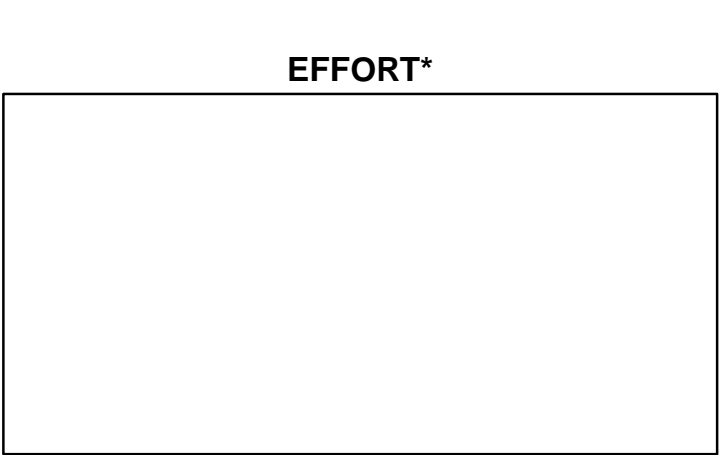
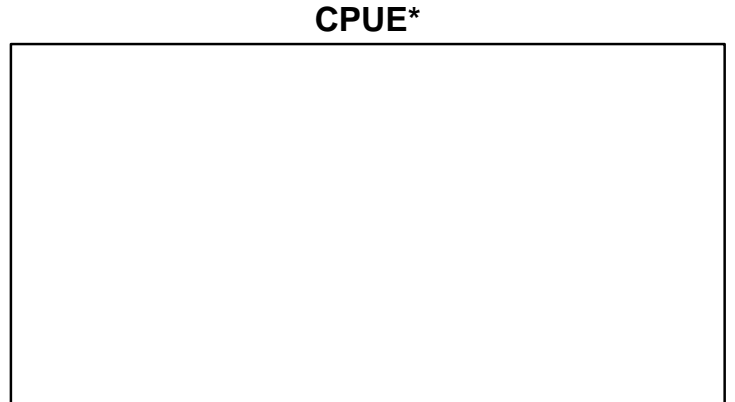
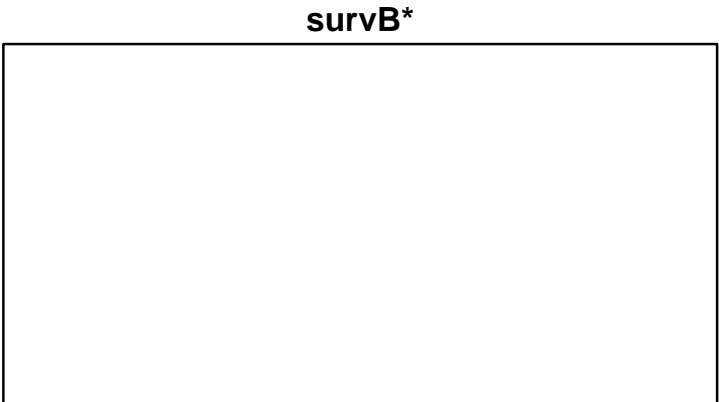
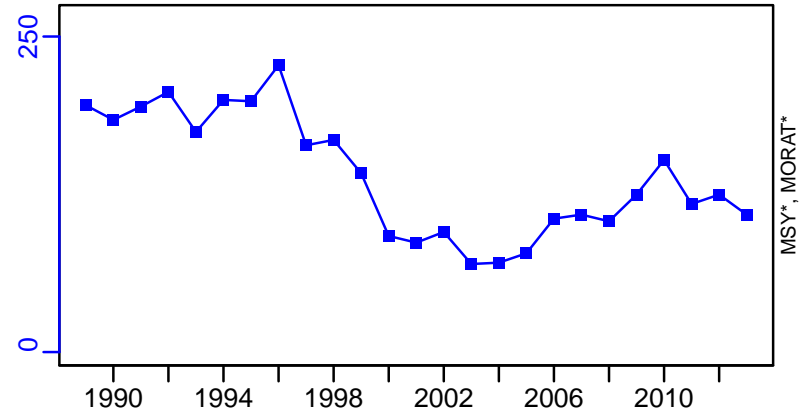
Recruits*



Flame snapper Okinawa Islands [FSNAPOKWI]

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

TAC*, Cpair*, Cadv*



Gag Gulf of Mexico [GAGGM]

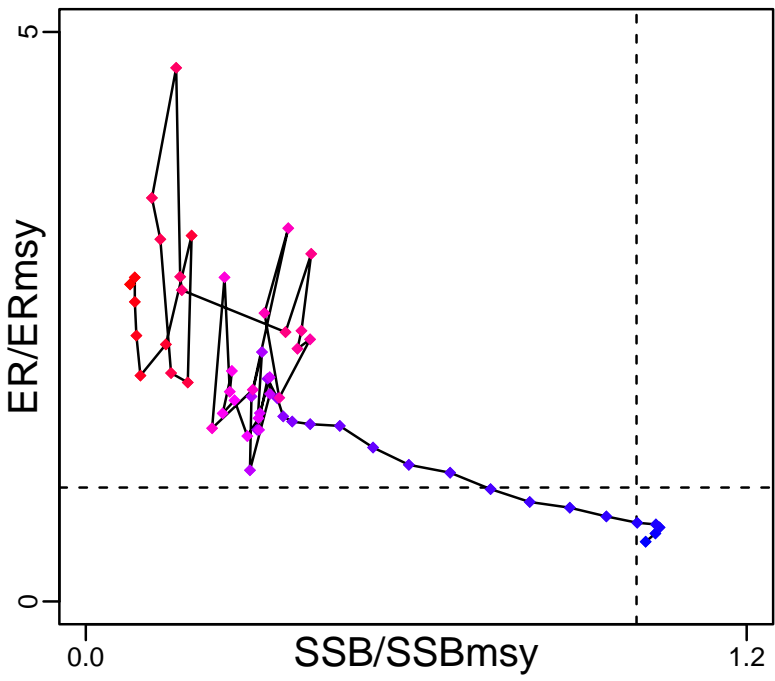
Metadata	
Scientific Name	Mycteroperca microlepis
Current Assess ID	SEFSC-GAGGM-1963-2019-SISIMP2022
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2012, 2019

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

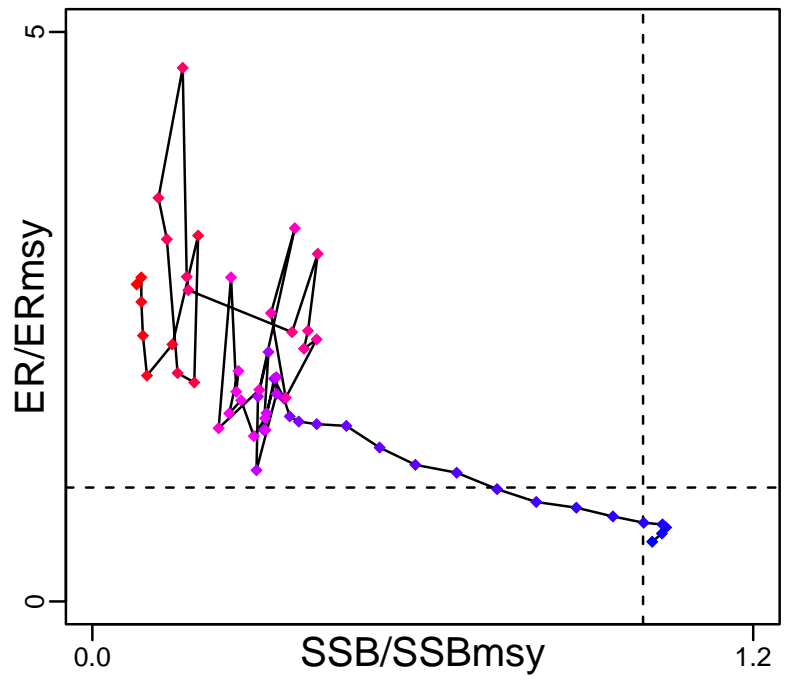
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	2295	-	-
TN	-	-	-	-	-
R	R-E00	2019	2,805,700	-	0
F	F-1/yr	2012	0.083	-	-
ER	ER-ratio	2019	0.412	-	3
TC	TC-MT	2019	1712		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.08		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2012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

Gag Gulf of Mexico [GAGGM]

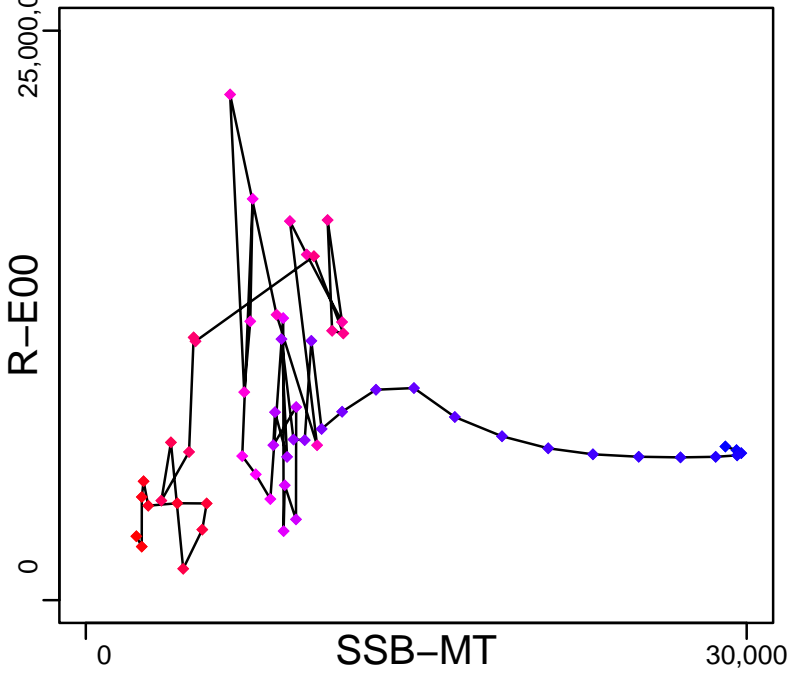
Kobe MSYpref (1963–2019–SISIMP2022)



Kobe MGTpref (1963–2019–SISIMP2022)



Spawner Recruit (1963–2019–SISIMP2022)



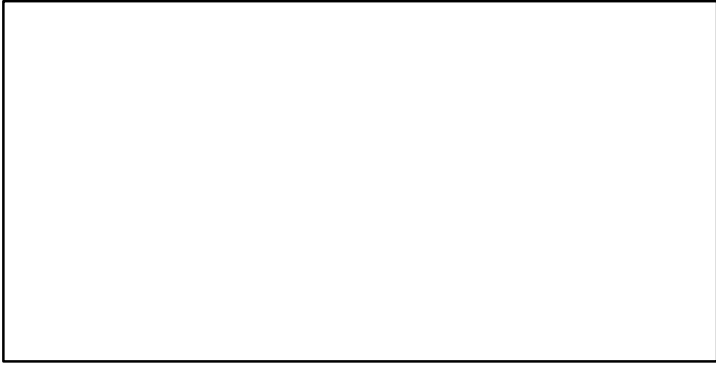
Production*



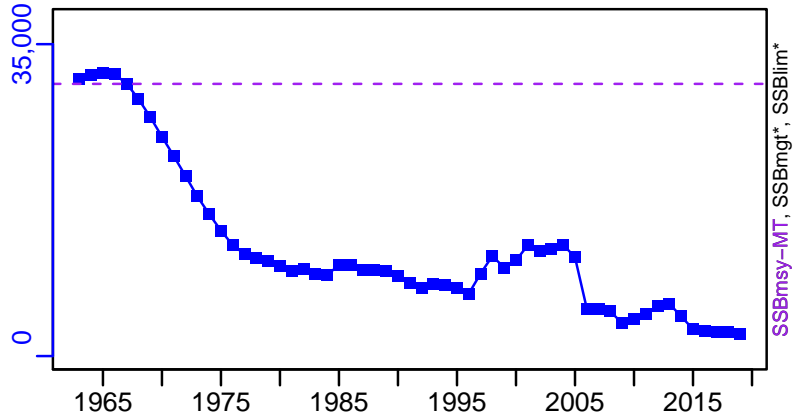
◆ Start Year ◆ End Year * No Data

Gag Gulf of Mexico [GAGGM]

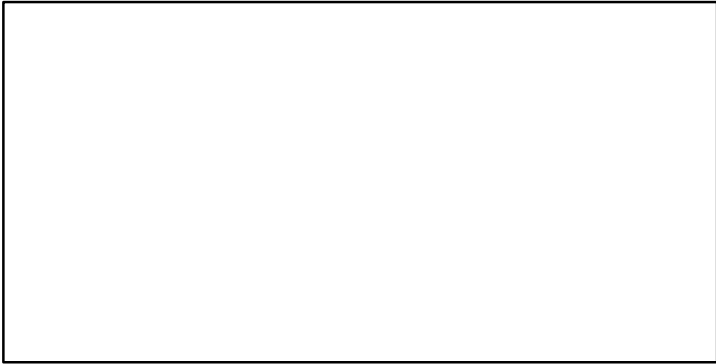
TB*



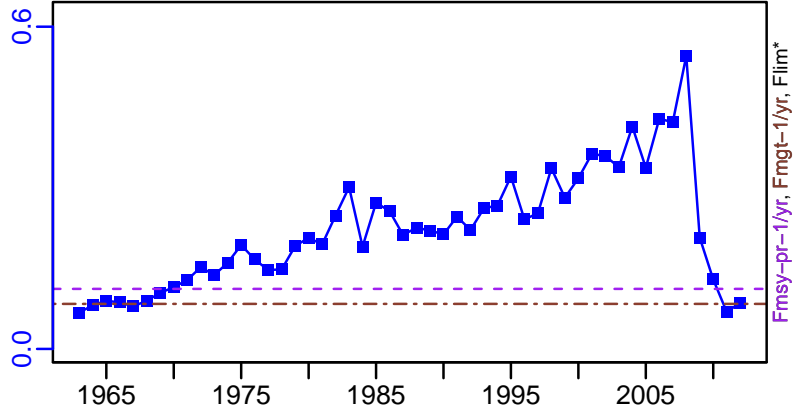
SSB-MT (1963-2019-SISIMP2022)



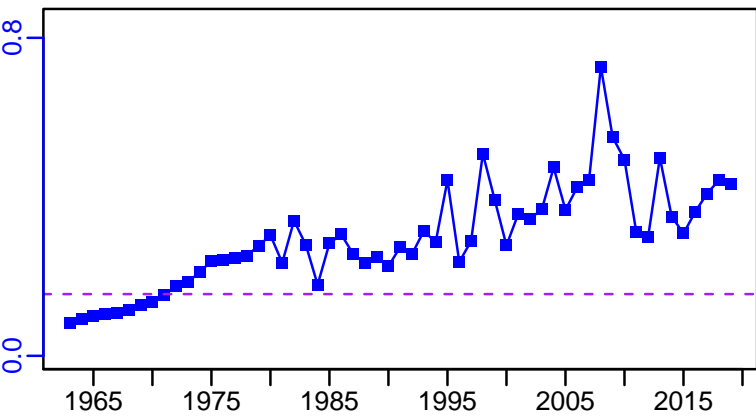
TN *



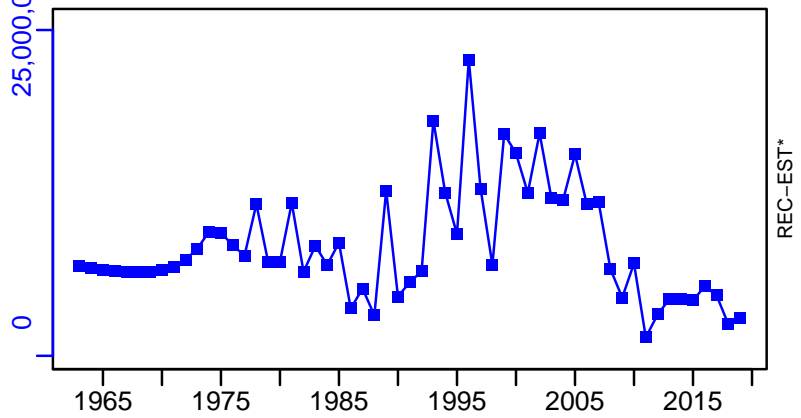
F-1/yr (1963-2012-HIVELY)



ER-ratio (1963-2019-SISIMP2022)



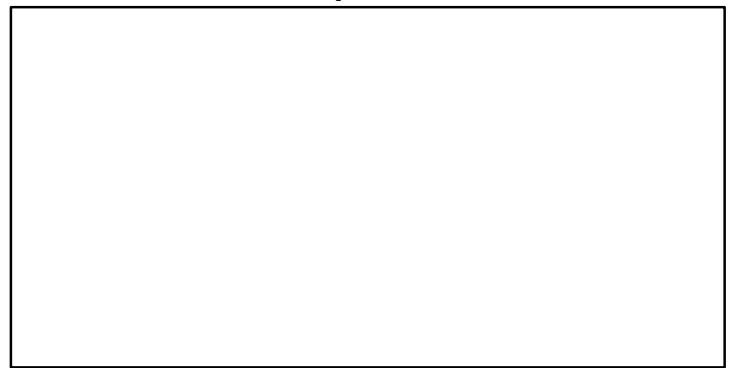
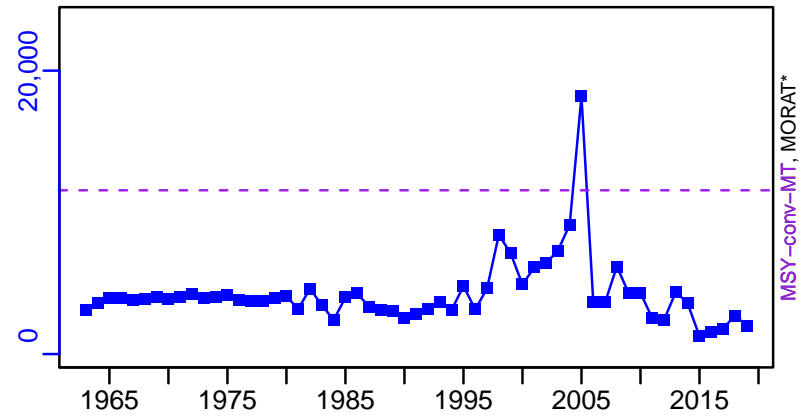
R-E00 (1963-2019-SISIMP2022)



Gag Gulf of Mexico [GAGGM]

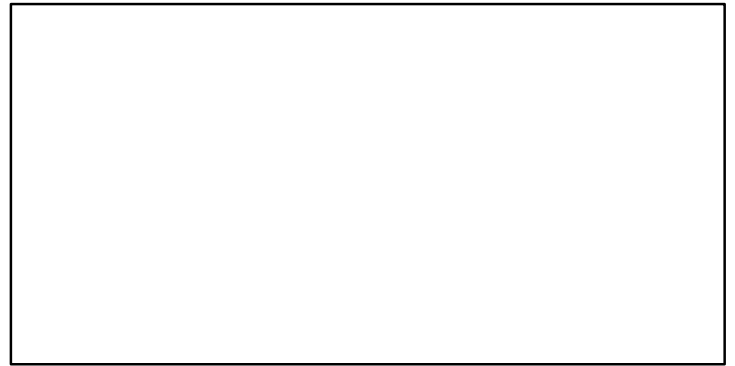
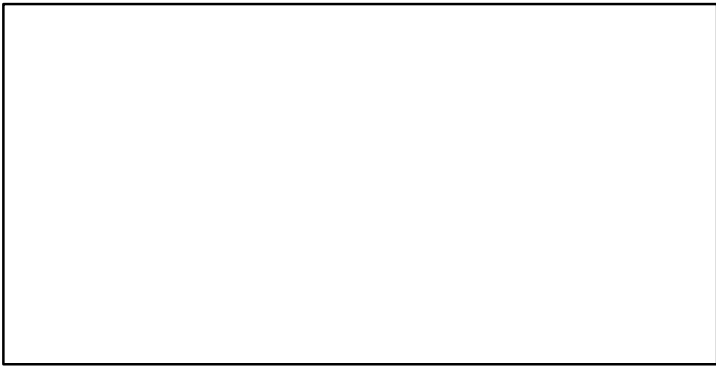
TC-MT, TL*, RecC* (1963-2019-SISIMP2022)

TAC*, Cpair*, Cadv*



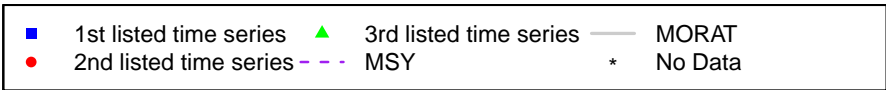
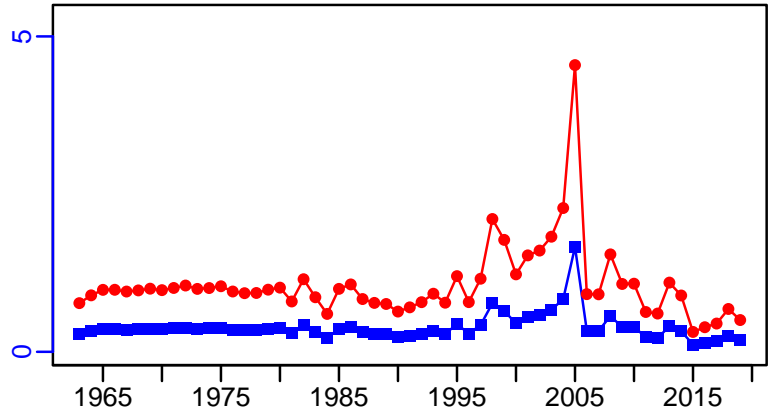
survB*

CPUE*



EFFORT*

TC-MT/MSY-conv-MT, CdivMEANC-ratio, (1963-2019-SISIMP2022)



Gag Southern Atlantic coast [GAGSATLC]

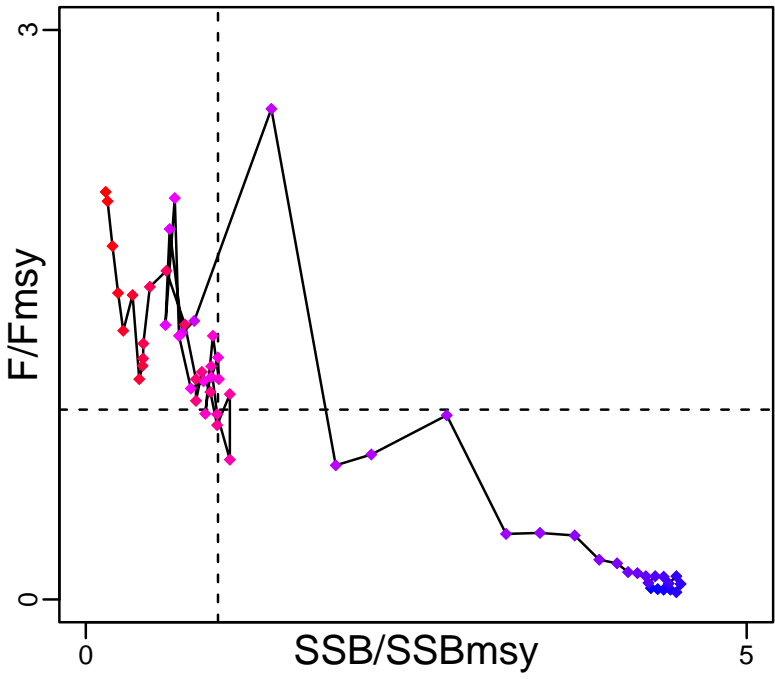
Metadata	
Scientific Name	Mycteroperca microlepis
Current Assess ID	SEFSC-GAGSATLC-1962-2019-SISIMP2021-2
Area	Southern Atlantic coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2005, 2012, 2019

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

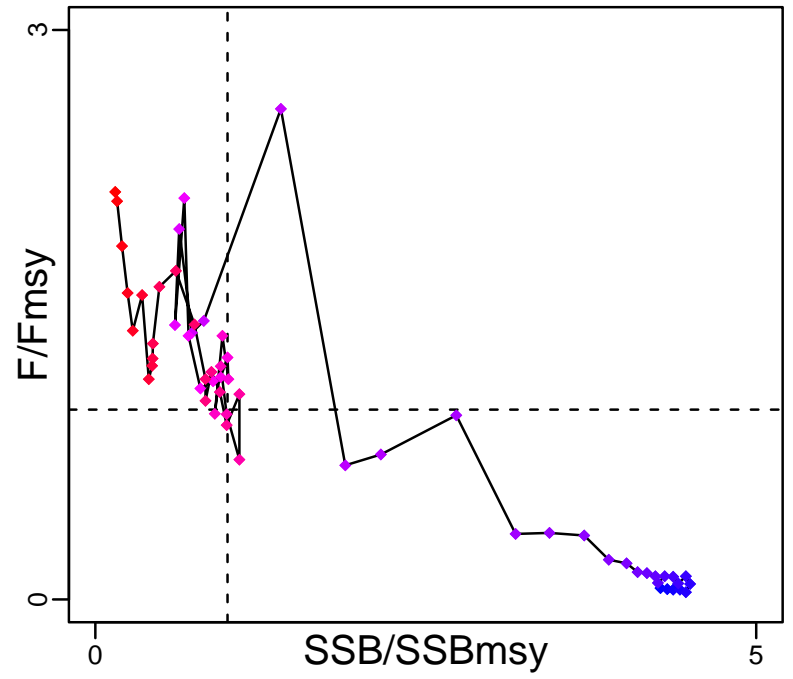
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	2620	-	1+
SSB	SSB-MT	2019	235	-	-
TN	-	-	-	-	-
R	R-E00	2019	283,000	-	1
F	F-1/yr	2019	0.79	-	-
ER	ER-calc-ratio	2012	0.094	-	-
TC	TC-MT	2019	247		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	0.646		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019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

Gag Southern Atlantic coast [GAGSATLC]

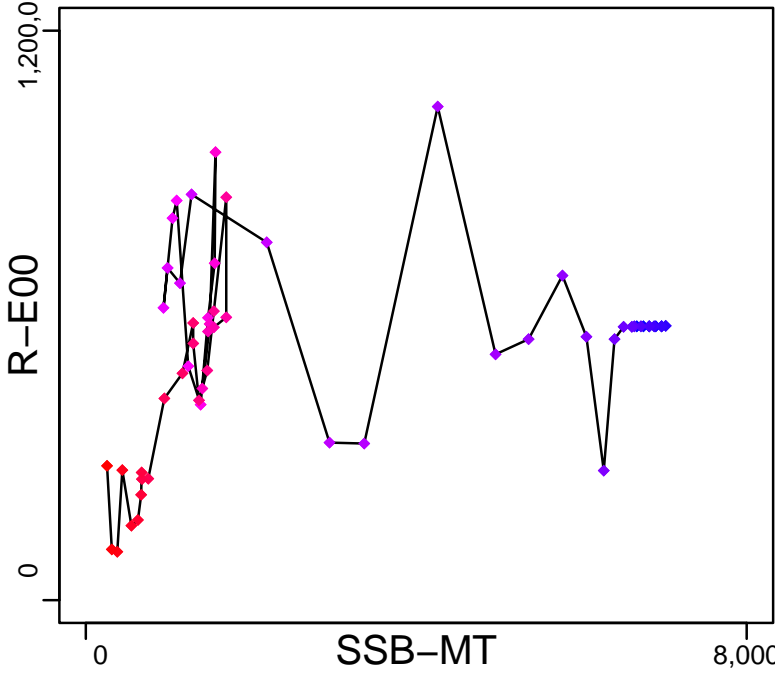
Kobe MSY_{pref} (1962–2019–SISIMP2021–2)



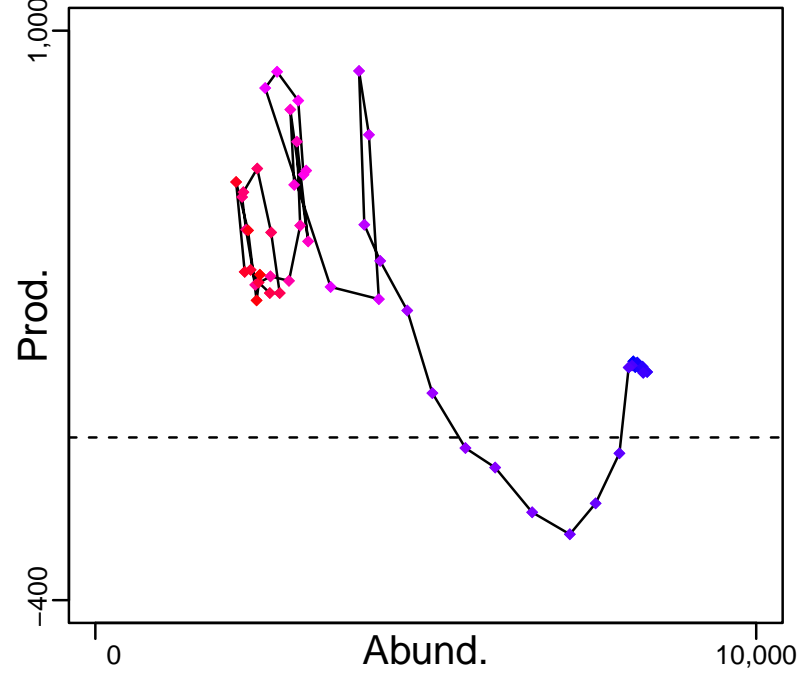
Kobe MGT_{pref} (1962–2019–SISIMP2021–2)



Spawner Recruit (1962–2019–SISIMP2021–2)



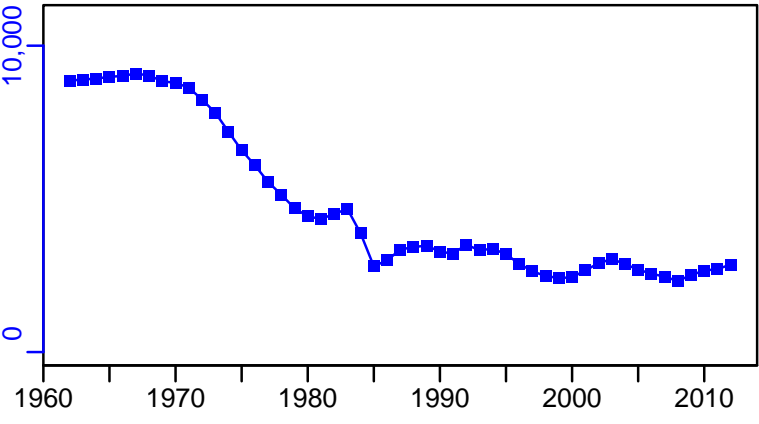
Production (1962–2019–SISIMP2021–2)



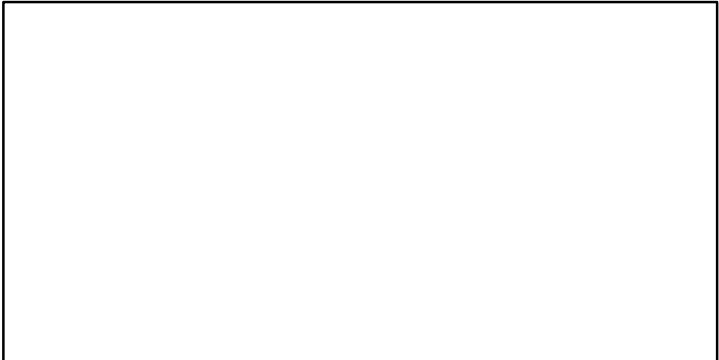
◆ Start Year ◆ End Year * No Data

Gag Southern Atlantic coast [GAGSATLC]

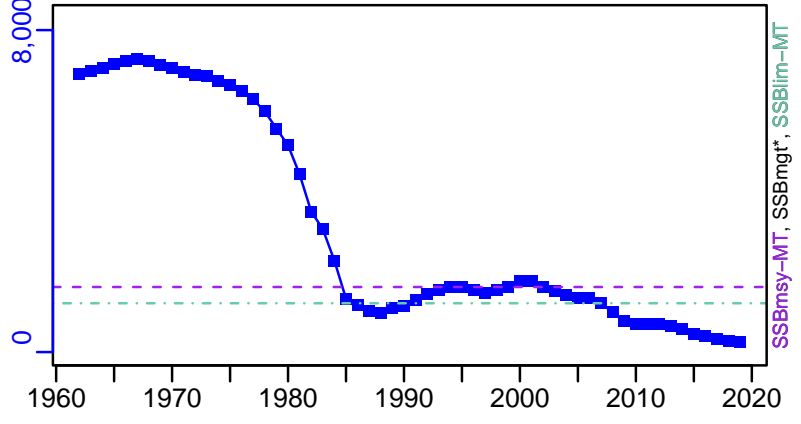
TB-MT (1962-2012-SISIMP2016)



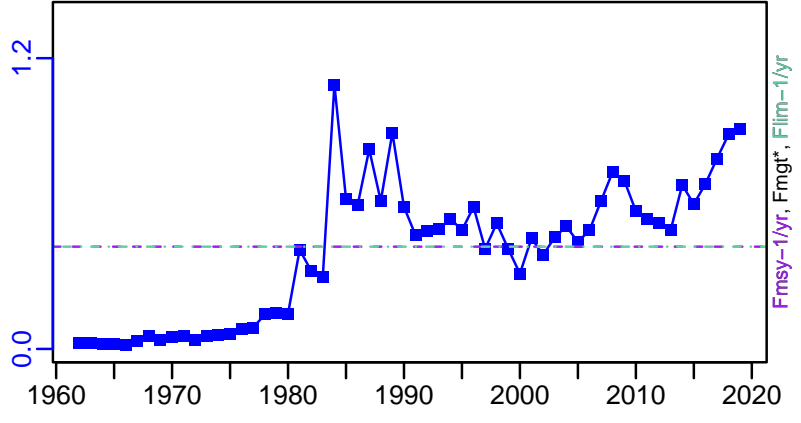
TN *



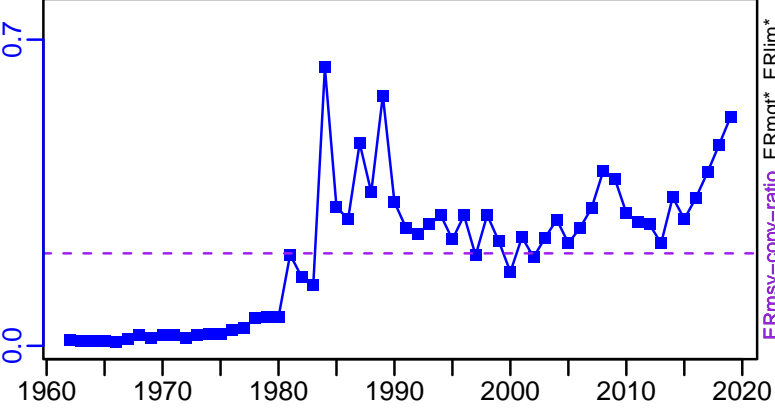
SSB-MT (1962-2019-SISIMP2021-2)



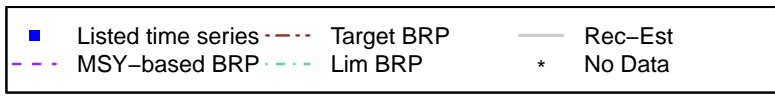
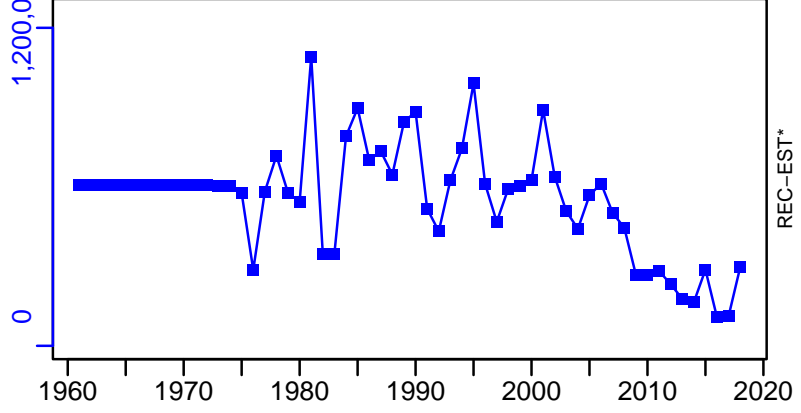
F-1/yr (1962-2019-SISIMP2021-2)



ER-calc-ratio (1962-2019-SISIMP2021-2)



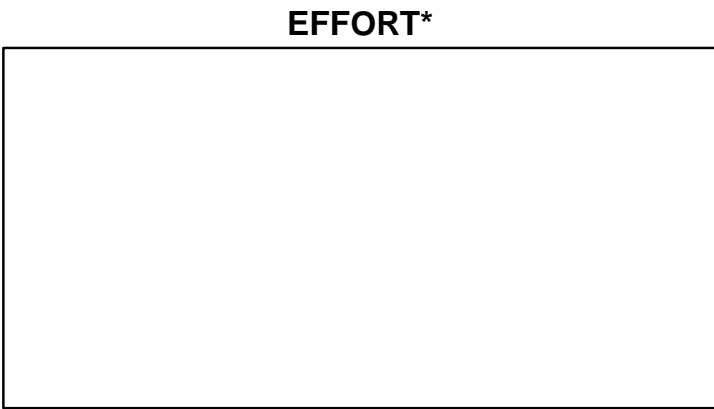
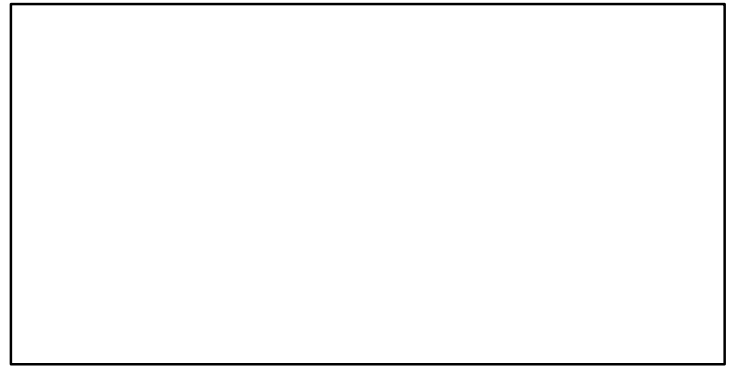
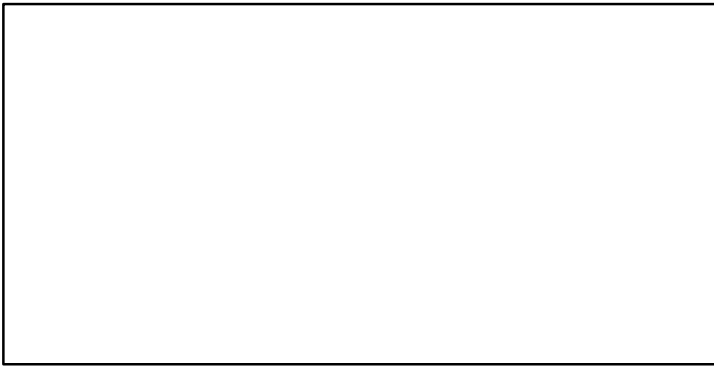
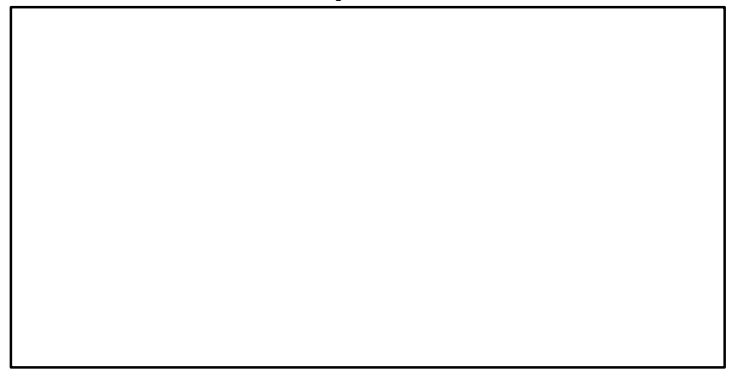
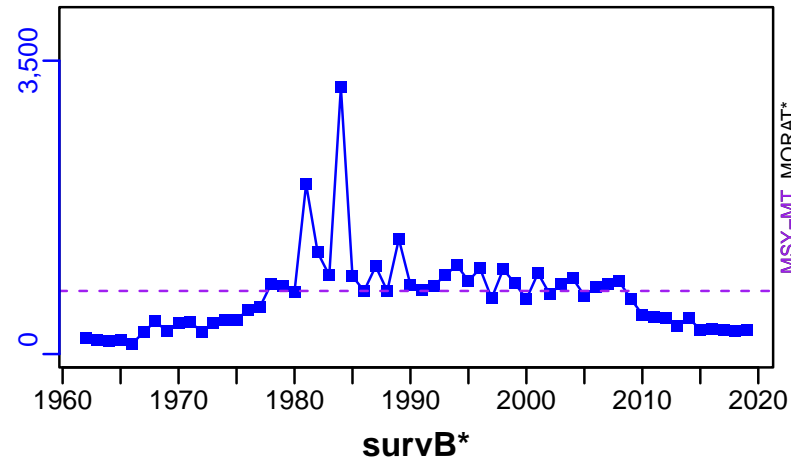
R-E00 (1962-2019-SISIMP2021-2)



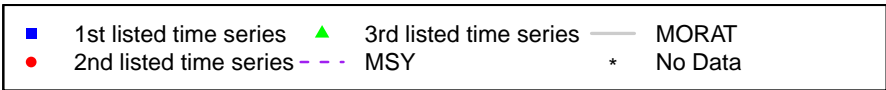
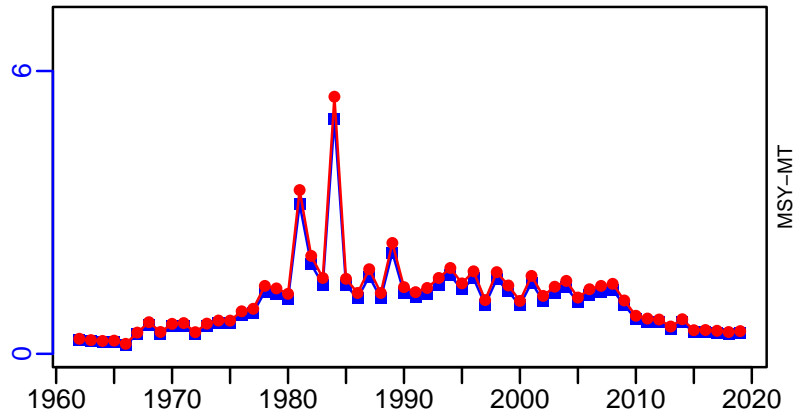
Gag Southern Atlantic coast [GAGSATLC]

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]

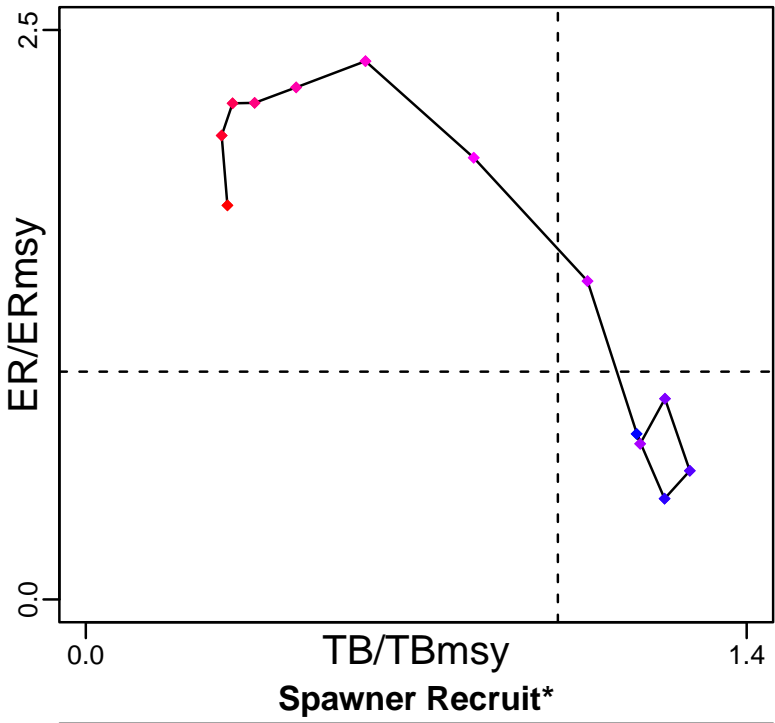
Metadata	
Scientific Name	Pomadasys spp
Current Assess ID	FAO-DR-GGRUNTCWAGAB-AGO-1995-2007-CHING
Area	Central West Africa Gabon-Angola
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2007

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

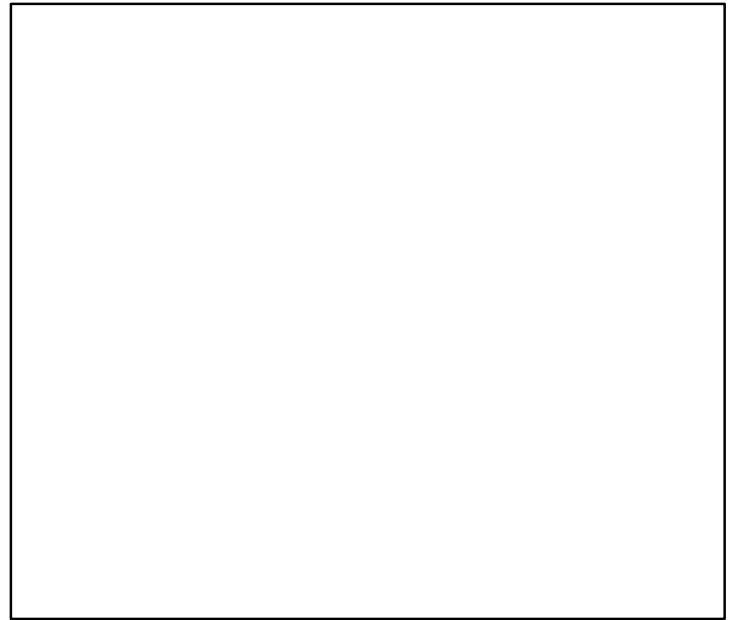
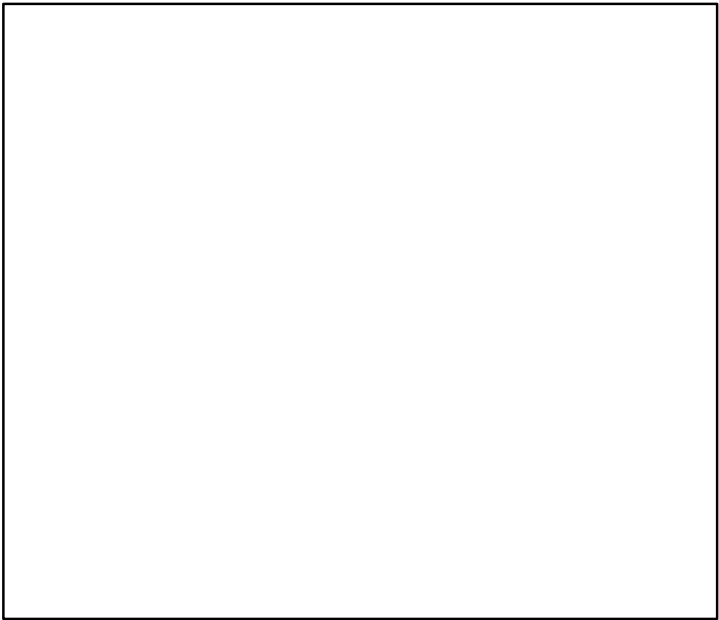
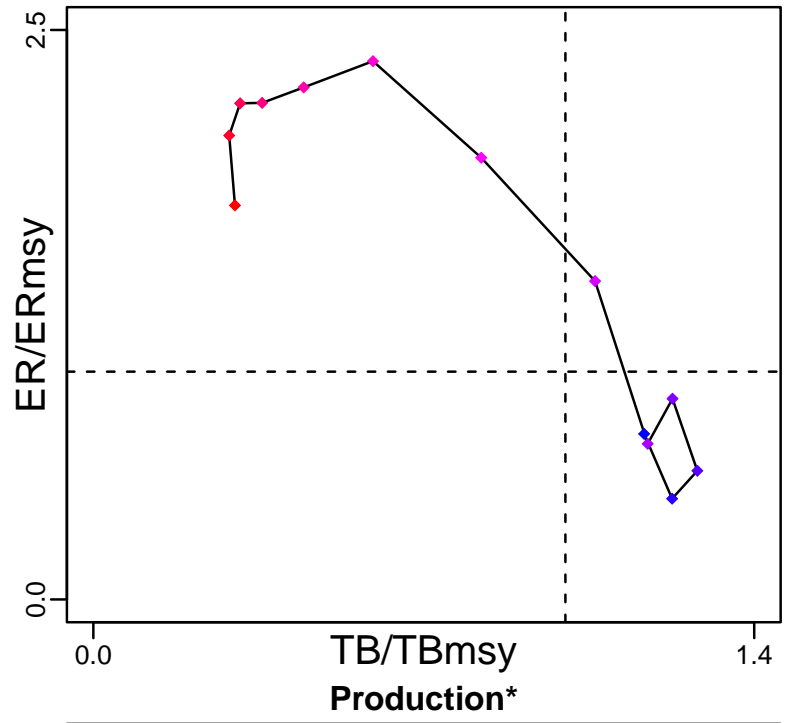
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	19	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	912		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt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

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

Kobe MSYpref (1995–2007–CHING)



Kobe MGTpref (1995–2007–CHING)

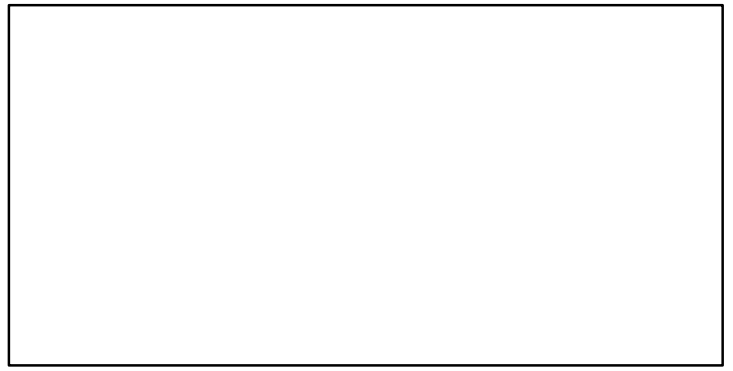
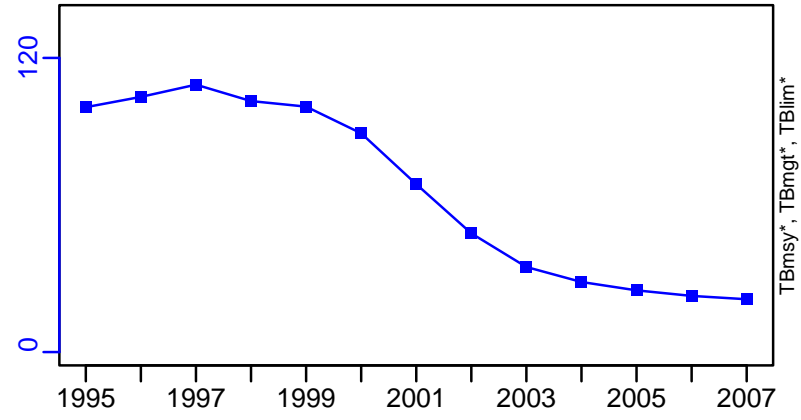


◆ Start Year ◆ End Year * No Data

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

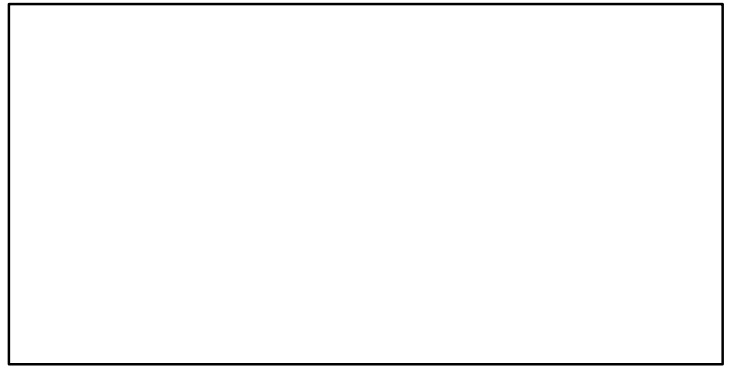
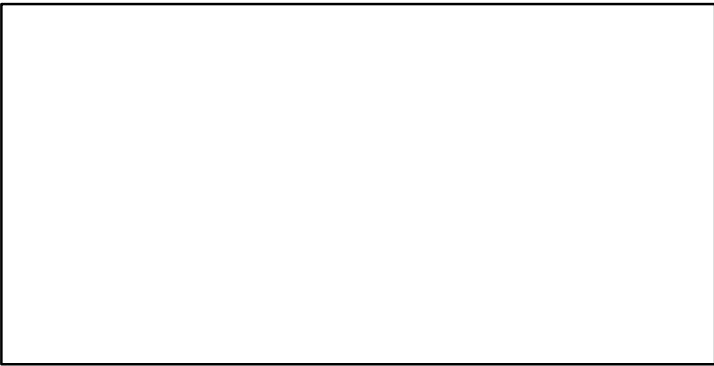
TB-index (1995–2007–CHING)

SSB*



TN *

F*



ER*

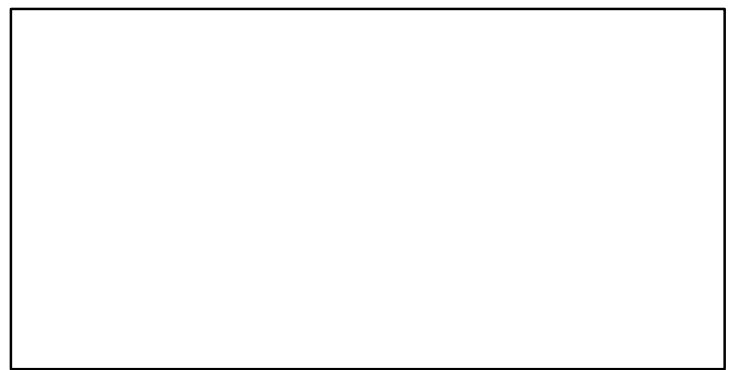
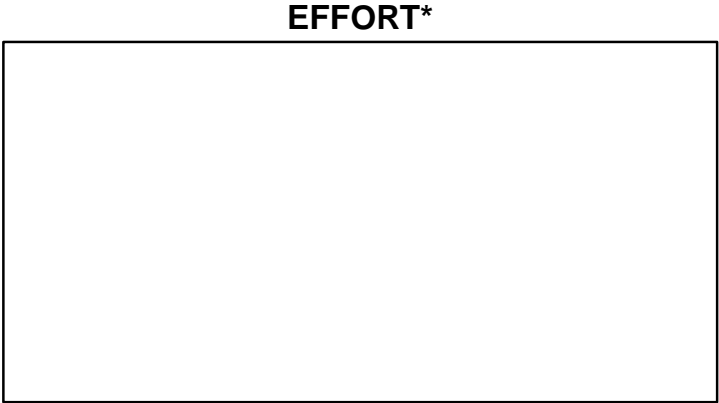
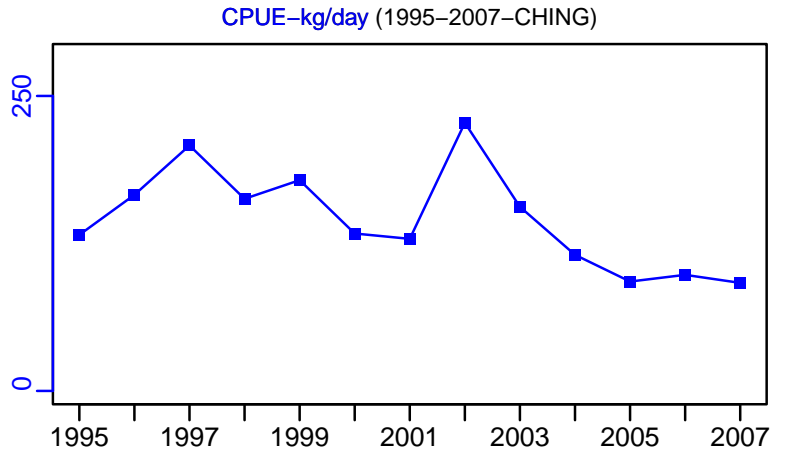
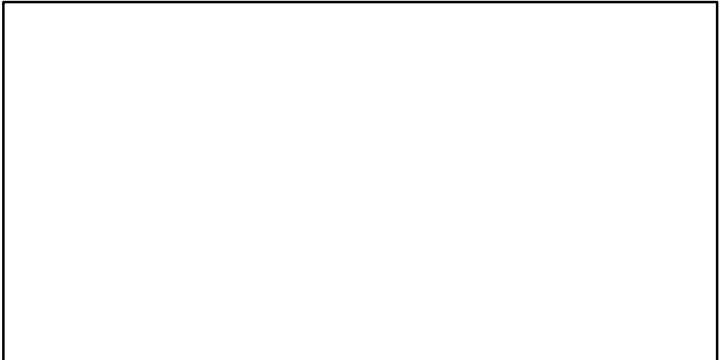
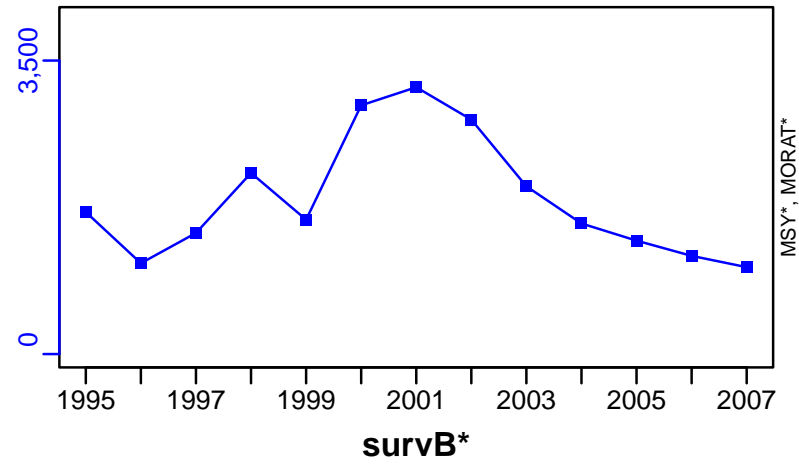
Recruits*



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

TC–MT, TL*, RecC* (1995–2007–CHING)

TAC*, Cpair*, Cadv*



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

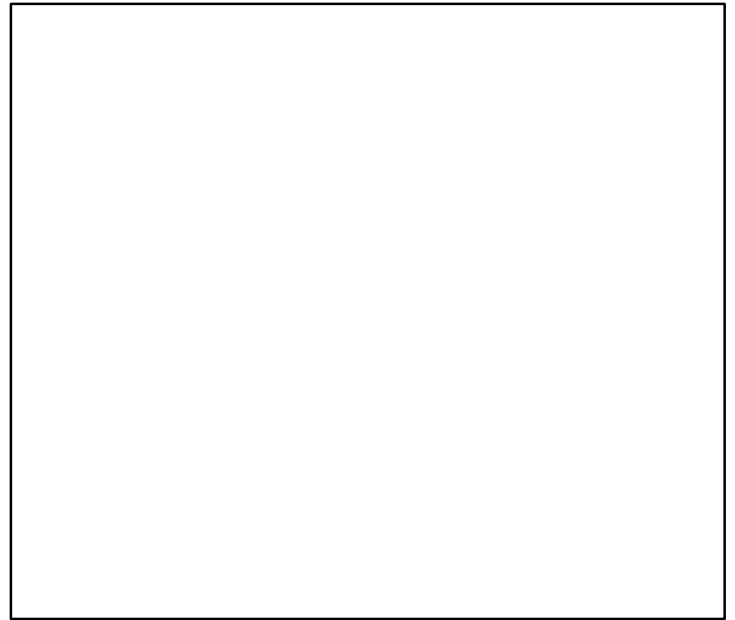
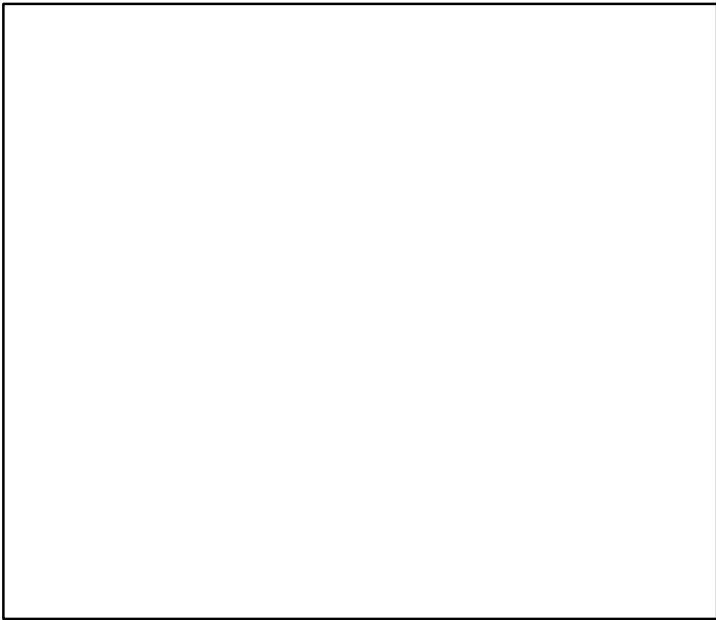
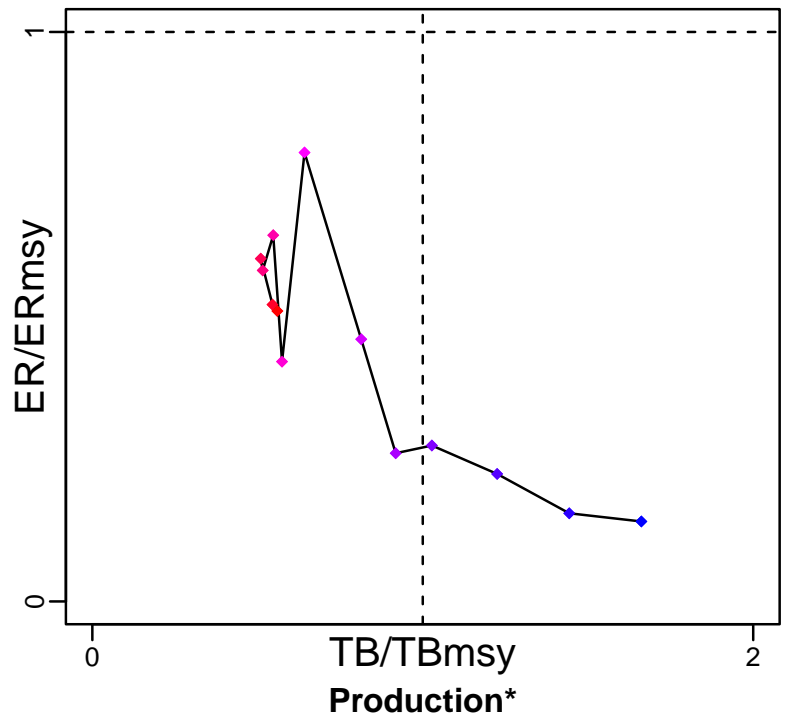
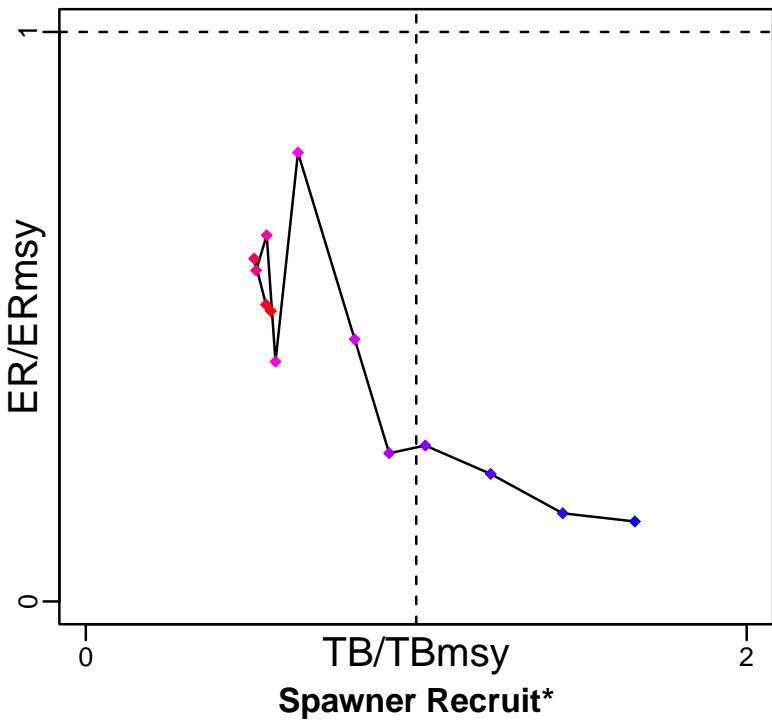
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

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

Kobe MSYpref (1994-2007-CHING)

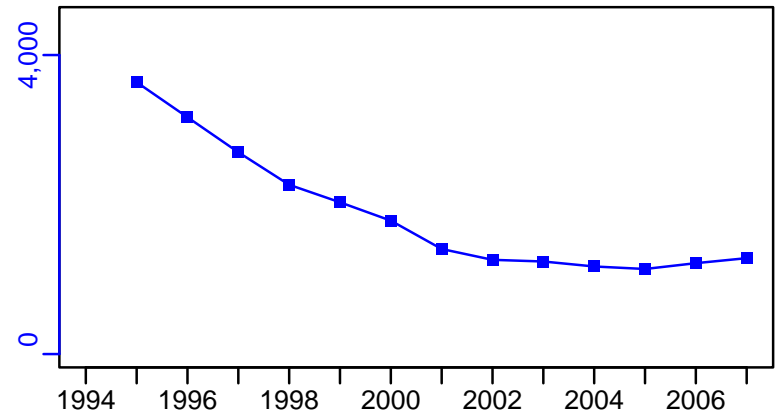
Kobe MGTpref (1994-2007-CHING)



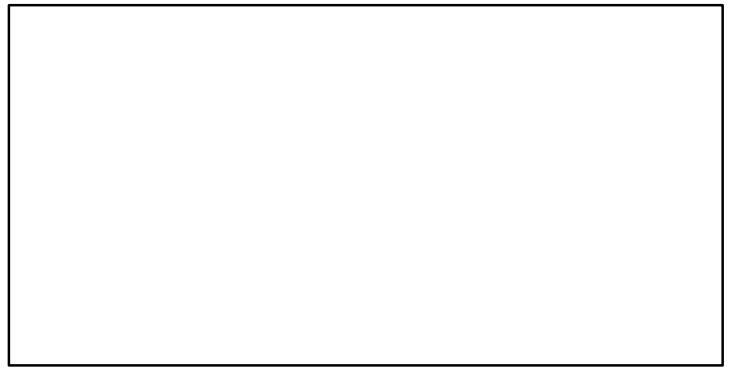
◆ Start Year ◆ End Year * No Data

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

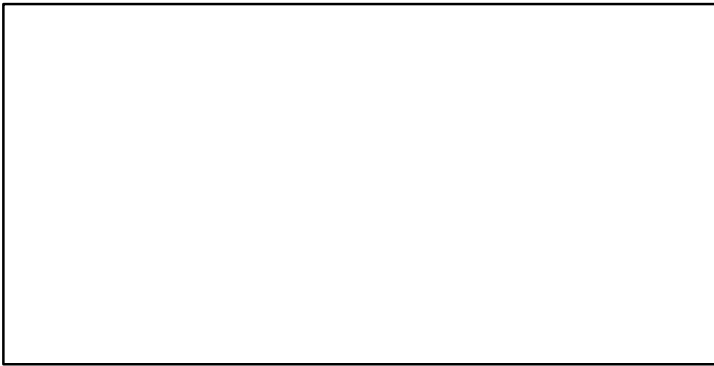
TB-index (1994-2007-CHING)



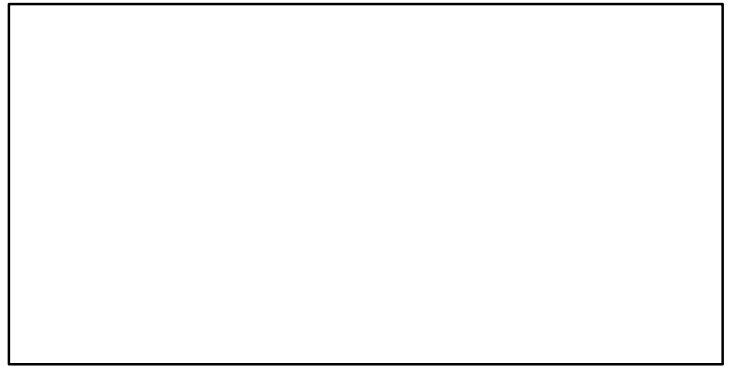
SSB*



TN *



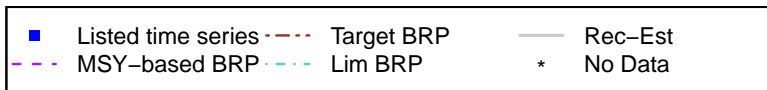
F*



ER*



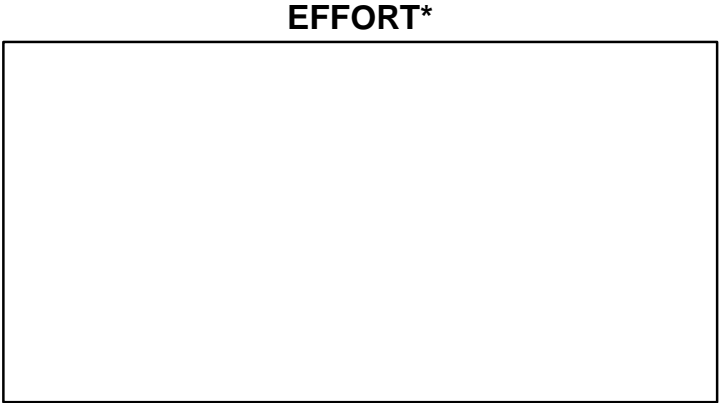
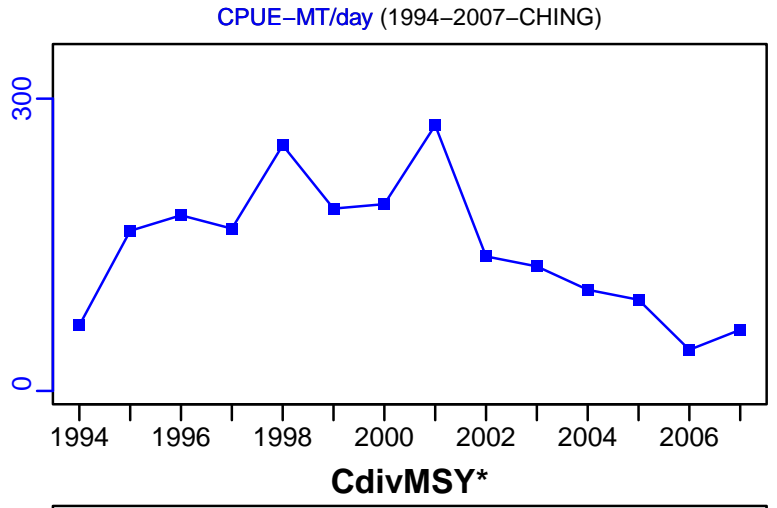
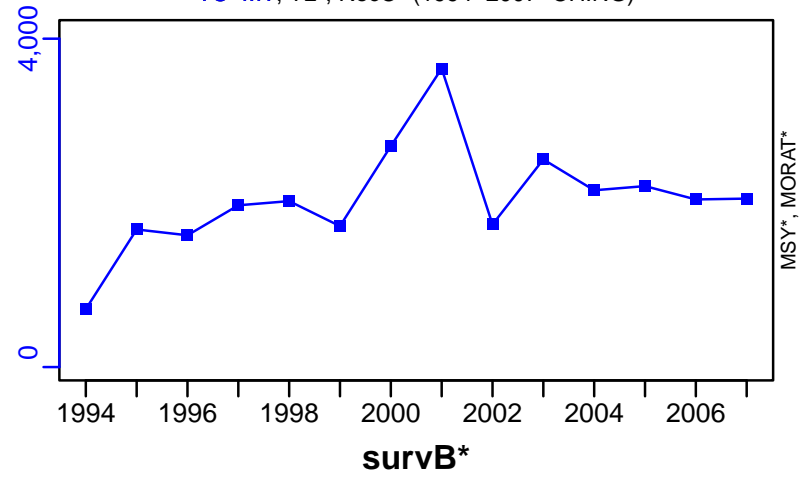
Recruits*



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

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

TAC*, Cpair*, Cadv*



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

Gilthead seabream Gulf of Lions [GHBRMGSA7]

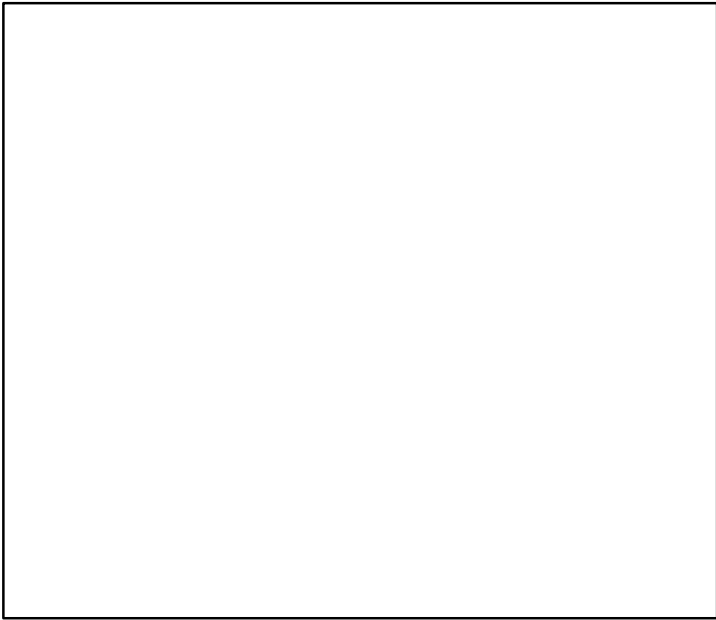
Metadata	
Scientific Name	Sparus aurata
Current Assess ID	STECF-GHBRMGSA7-2013-2015-OSIO
Area	Gulf of Lions
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2015	0.19
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

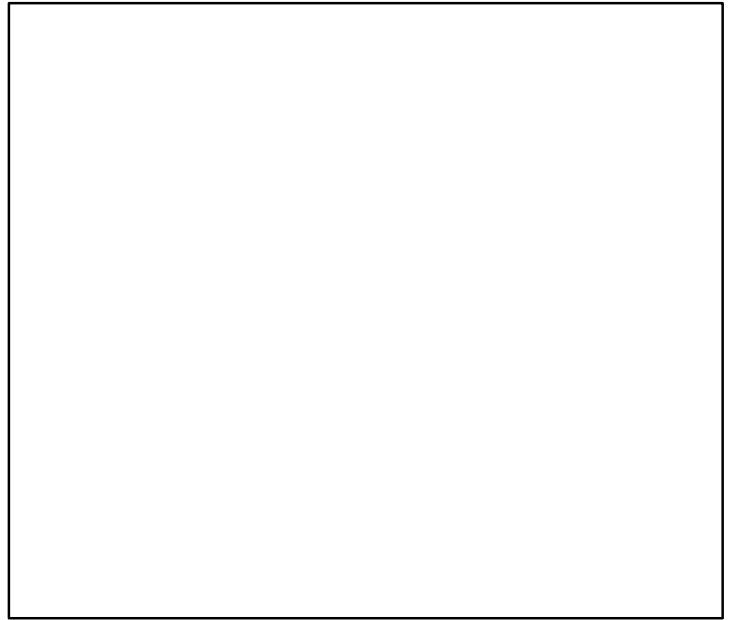
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	2650	-	-
TN	-	-	-	-	-
R	R-E00	2015	5.76×10^{10}	-	-
F	F-1/yr	2015	0.45	-	-
ER	-	-	-	-	-
TC	-	-	-	-	-
TL	TL-MT	2015	1700	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	-	-	-	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	2.368	-	-
ER/ERmgt	-	-	-	-	-

Gilthead seabream Gulf of Lions [GHBRMGSA7]

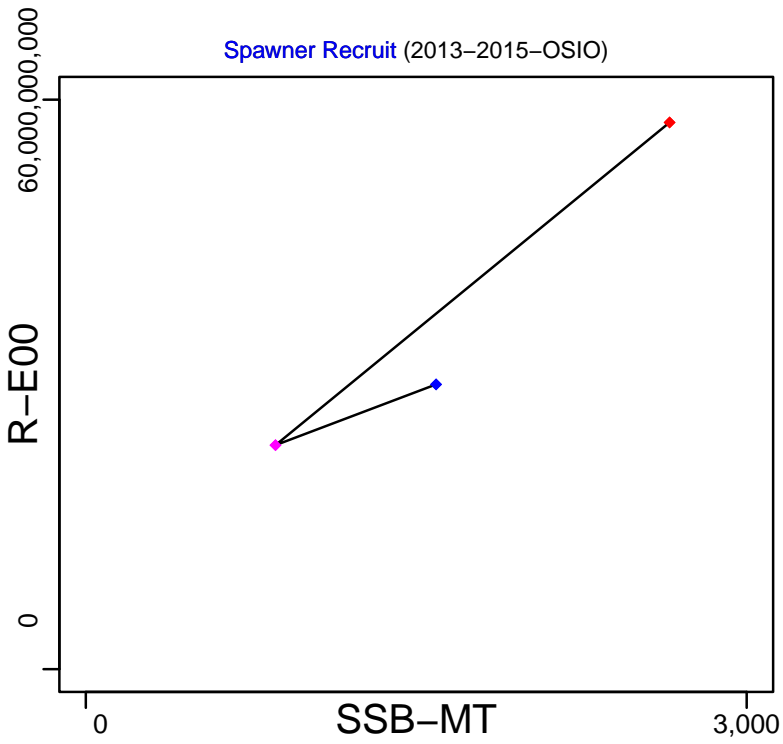
Kobe MSY*



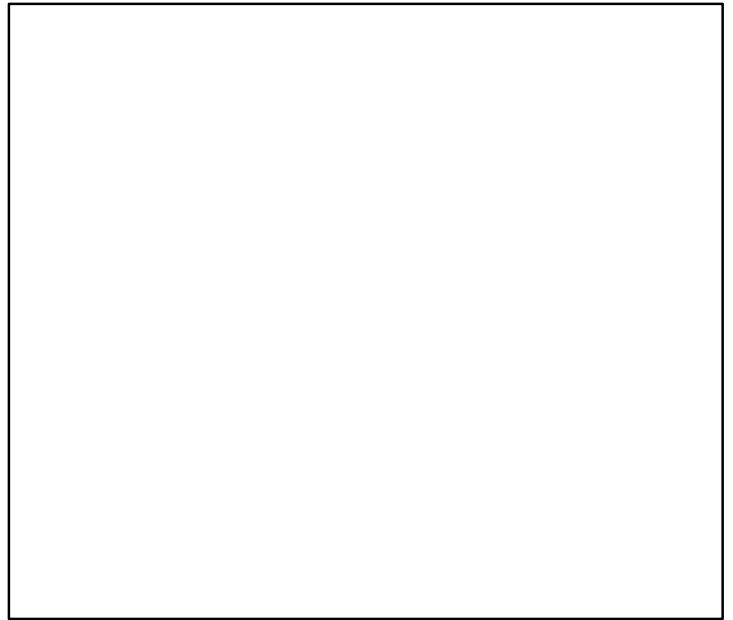
Kobe MGT*



Spawner Recruit (2013–2015–OSIO)



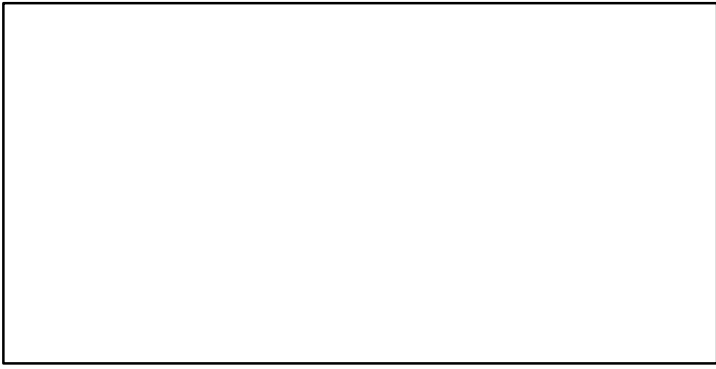
Production*



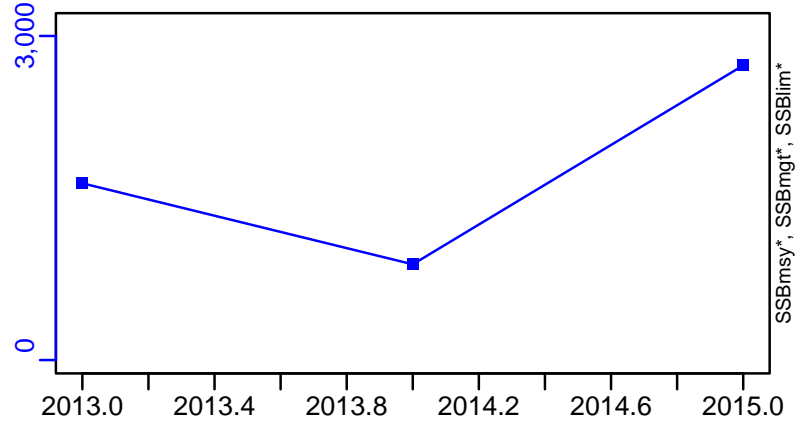
◆ Start Year ◆ End Year * No Data

Gilthead seabream Gulf of Lions [GHB RMGSA7]

TB*



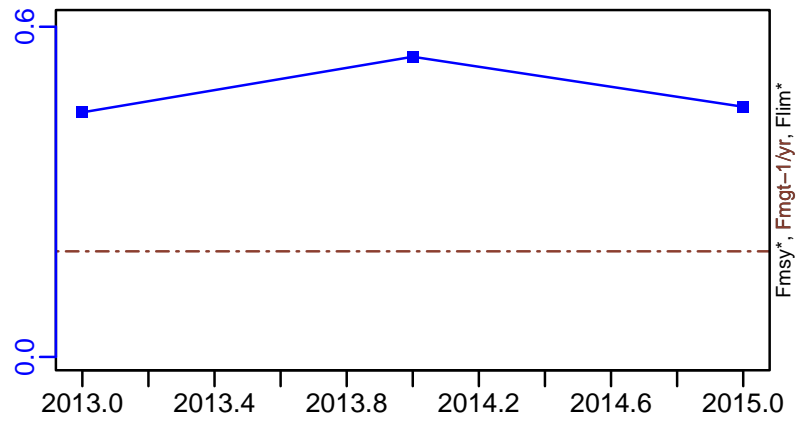
SSB-MT (2013-2015-OSIO)



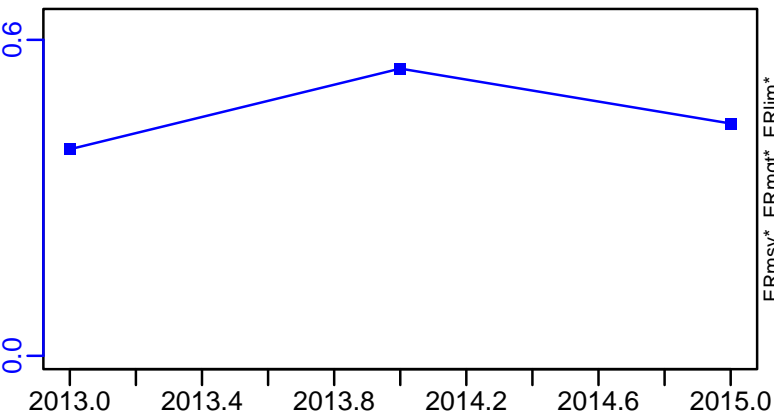
TN *



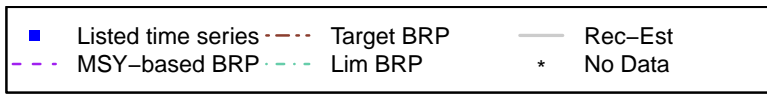
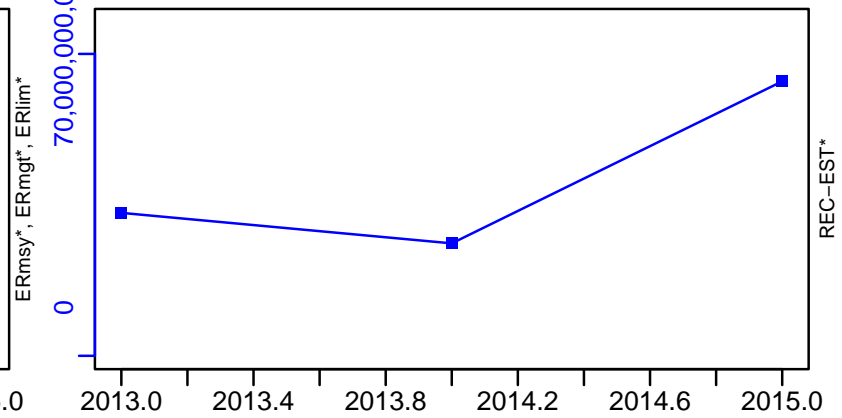
F-1/yr (2013-2015-OSIO)



ER-calc-ratio (2013-2015-OSIO)



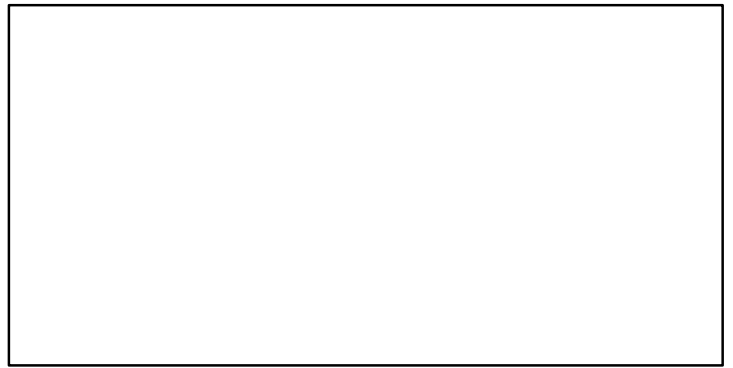
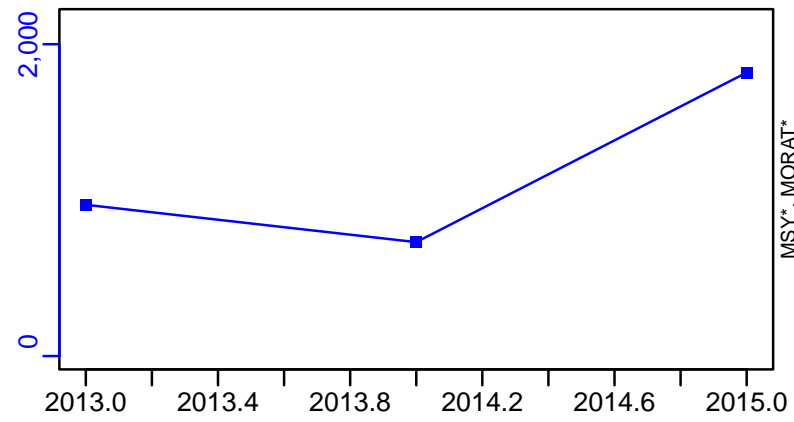
R-E00 (2013-2015-OSIO)



Gilthead seabream Gulf of Lions [GHBRMGSA7]

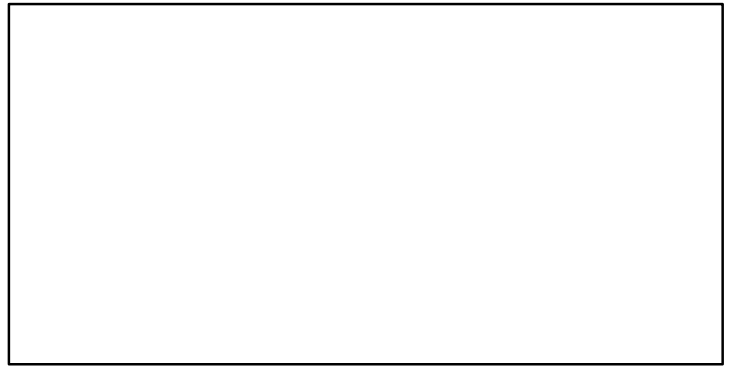
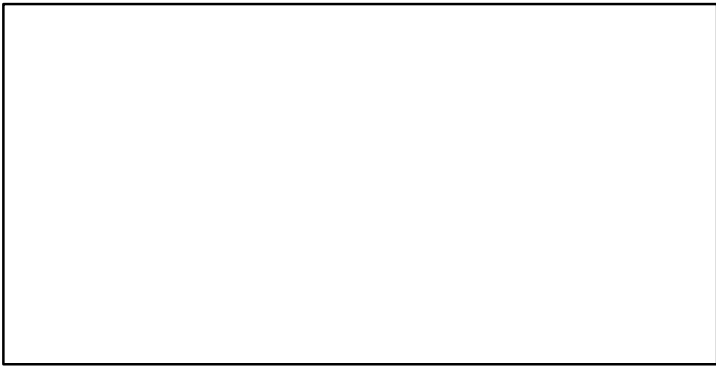
TL-MT, TC*, RecC* (2013-2015-OSIO)

TAC*, Cpair*, Cadv*



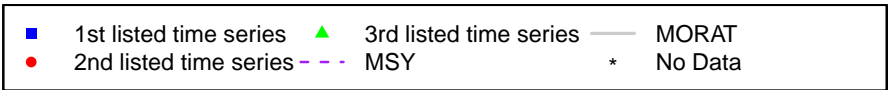
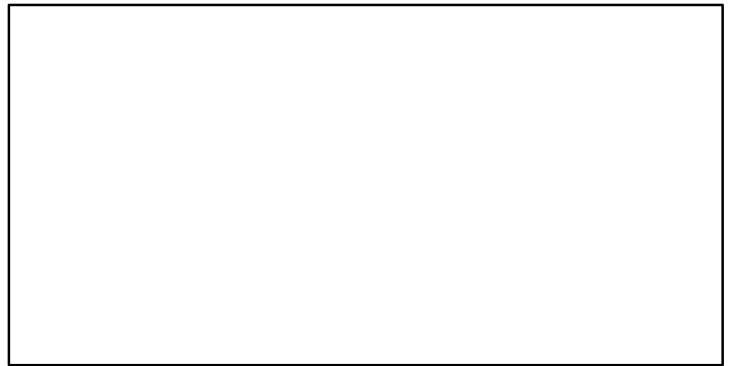
survB*

CPUE*



EFFORT*

CdivMSY*



Green jobfish Main Hawaiian Islands [GJOBMHI]

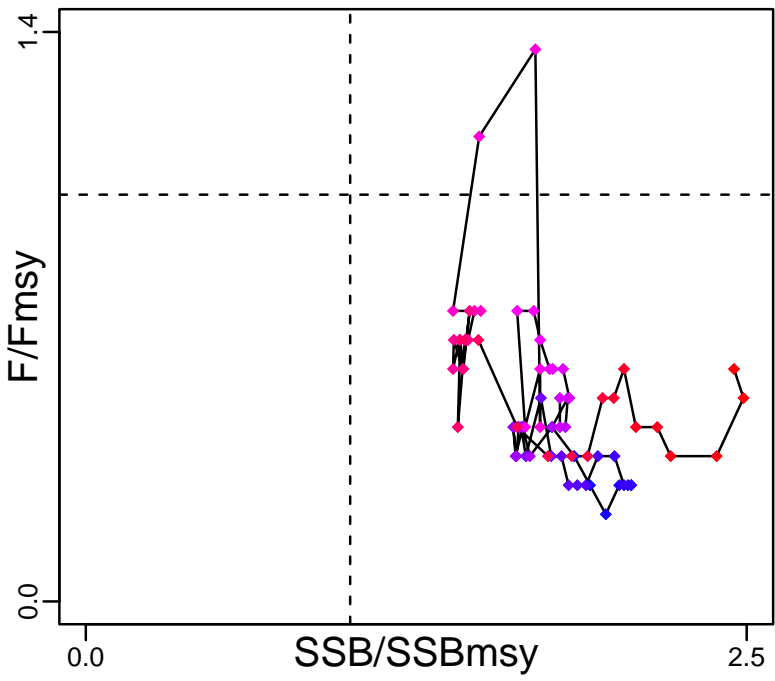
Metadata	
Scientific Name	Aprion virescens
Current Assess ID	PIFSC-GJOBMHI-1948-2018-SISIMP2021-2
Area	Main Hawaiian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fisheries Science Center
Asmts in RAM	2018, 2015

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

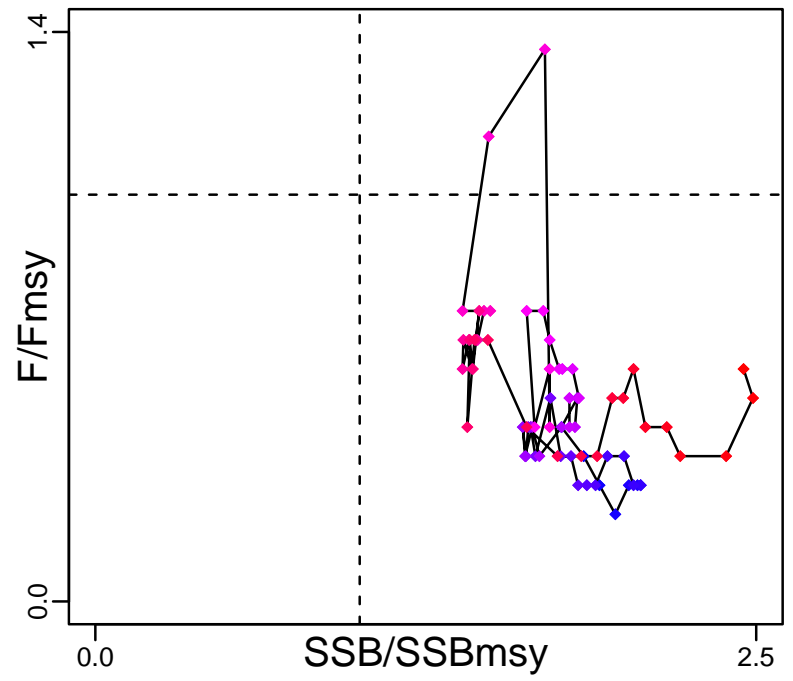
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	819	-	-
TN	-	-	-	-	-
R	R-E00	2018	74,000	-	0
F	F-1/yr	2018	0.08	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	125		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	2.452		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.571		
ER/ERmsy	-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

Green jobfish Main Hawaiian Islands [GJOBMHI]

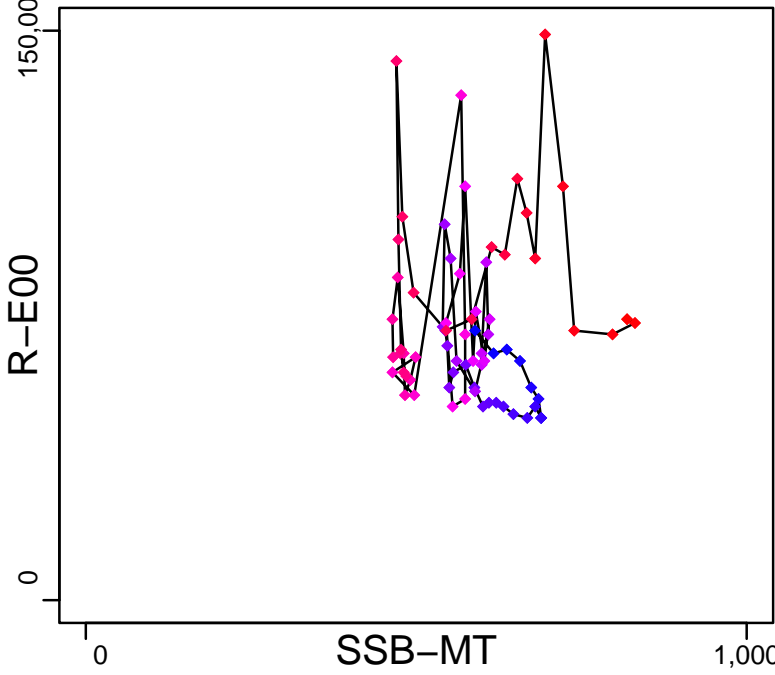
Kobe MSYpref (1948–2018–SISIMP2021–2)



Kobe MGTpref (1948–2018–SISIMP2021–2)



Spawner Recruit (1948–2018–SISIMP2021–2)



Production*



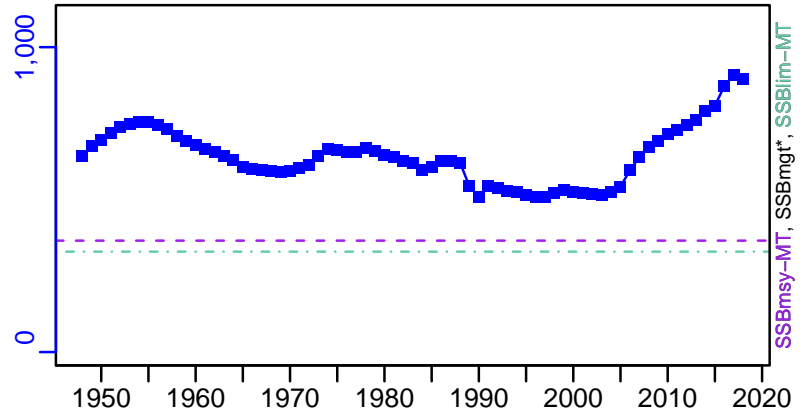
◆ Start Year ◆ End Year * No Data

Green jobfish Main Hawaiian Islands [GJOBMHI]

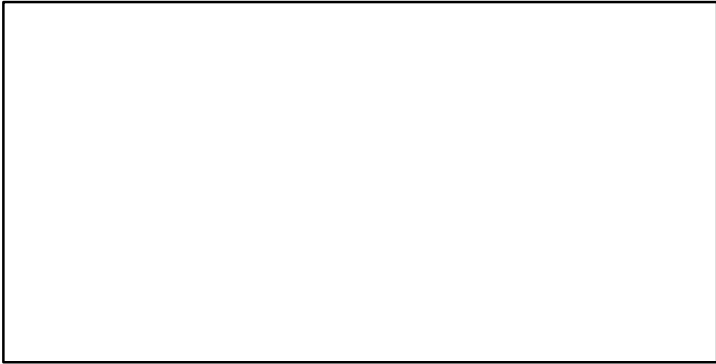
TB*



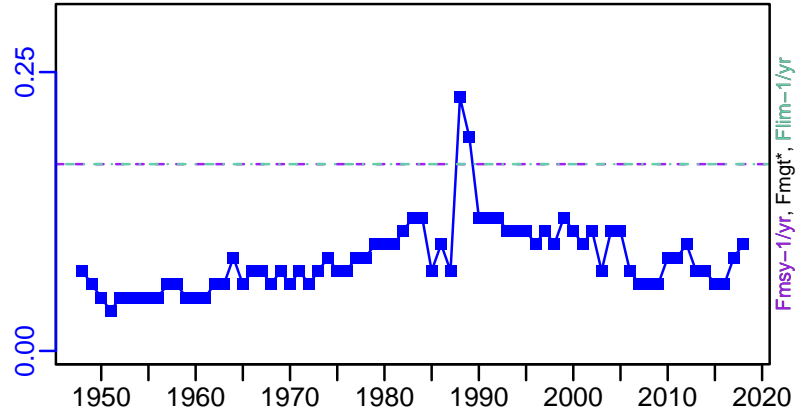
SSB-MT (1948-2018-SISIMP2021-2)



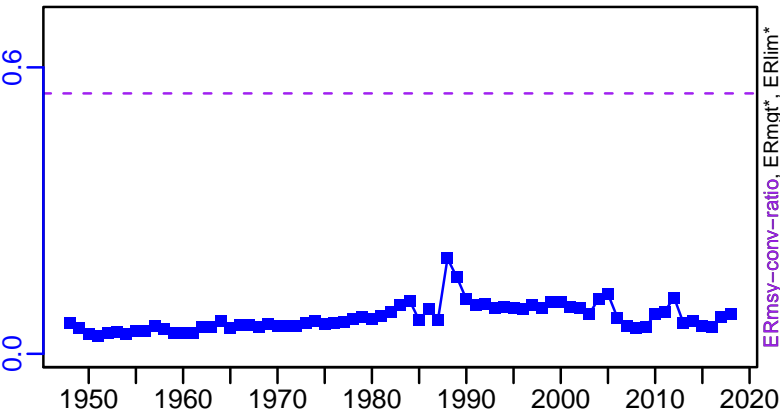
TN *



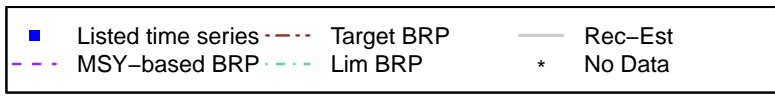
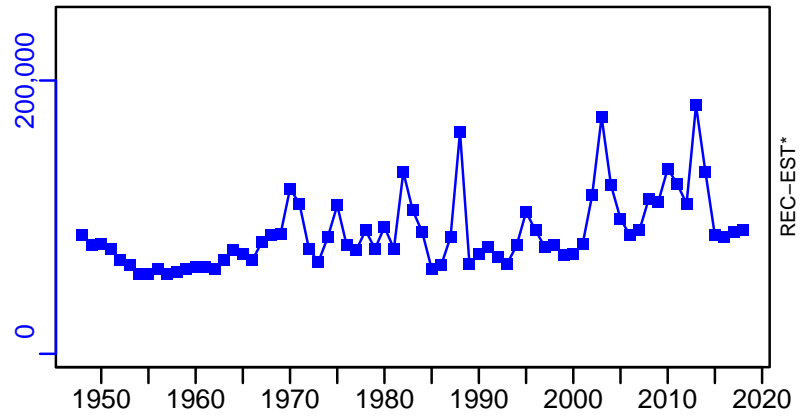
F-1/yr (1948-2018-SISIMP2021-2)



ER-calc-ratio (1948-2018-SISIMP2021-2)



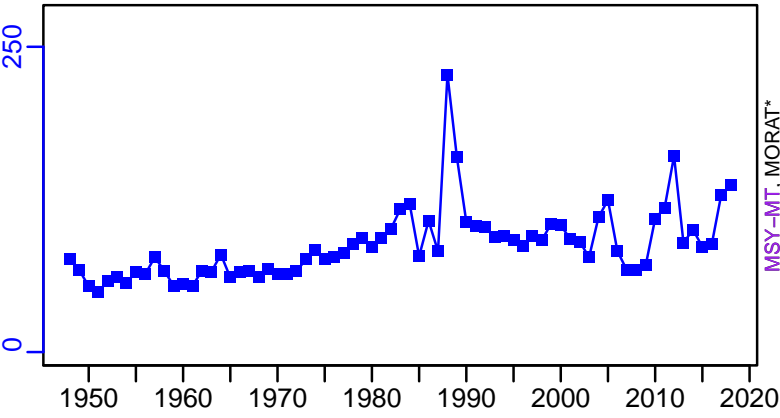
R-E00 (1948-2018-SISIMP2021-2)



Green jobfish Main Hawaiian Islands [GJOBMHI]

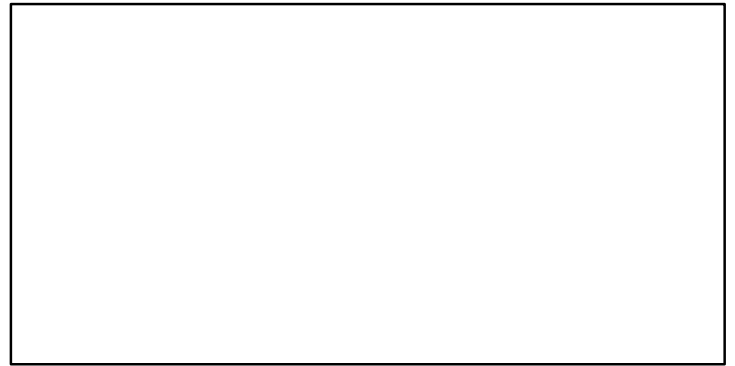
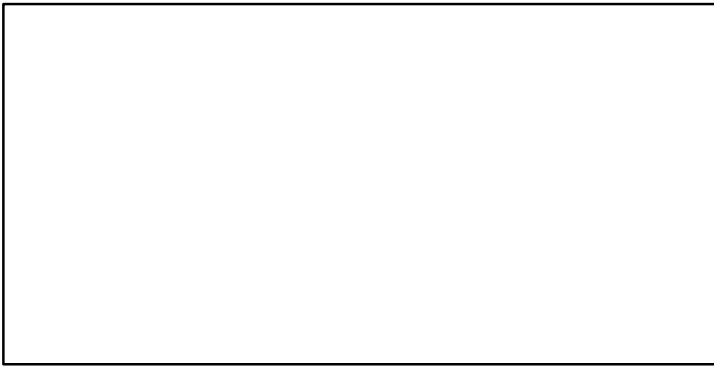
TC-MT, TL*, RecC* (1948-2018-SISIMP2021-2)

TAC*, Cpair*, Cadv*



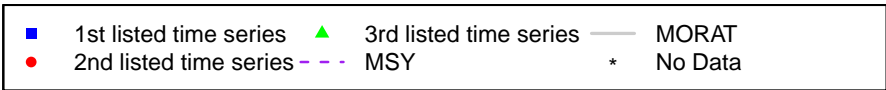
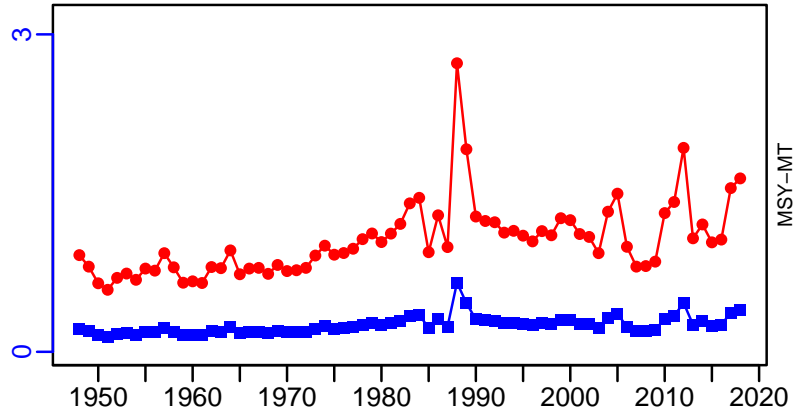
survB*

CPUE*



EFFORT*

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



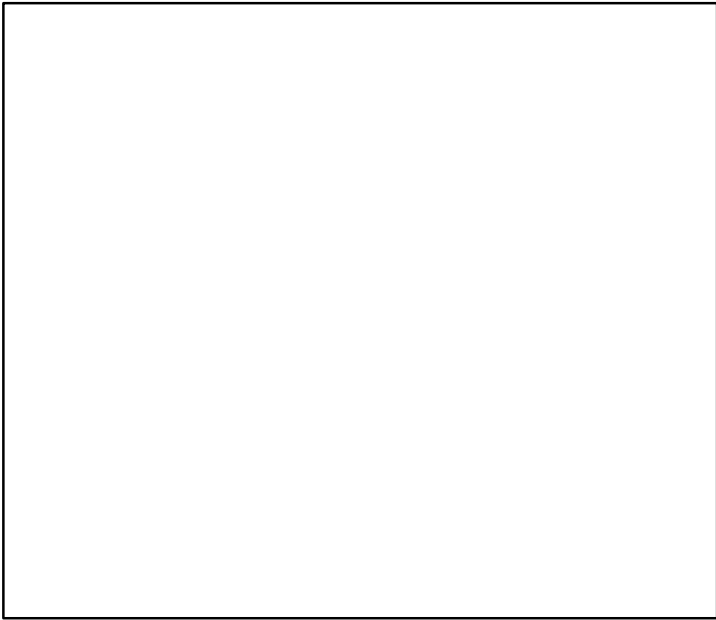
Goliath grouper Southern Atlantic coast and Gulf of Mexico [GLGROUPSATLCGM]

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

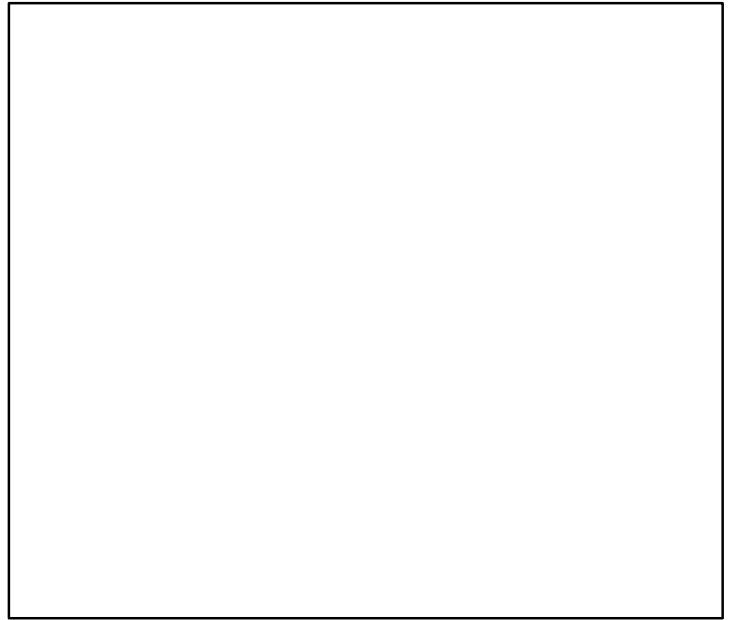
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

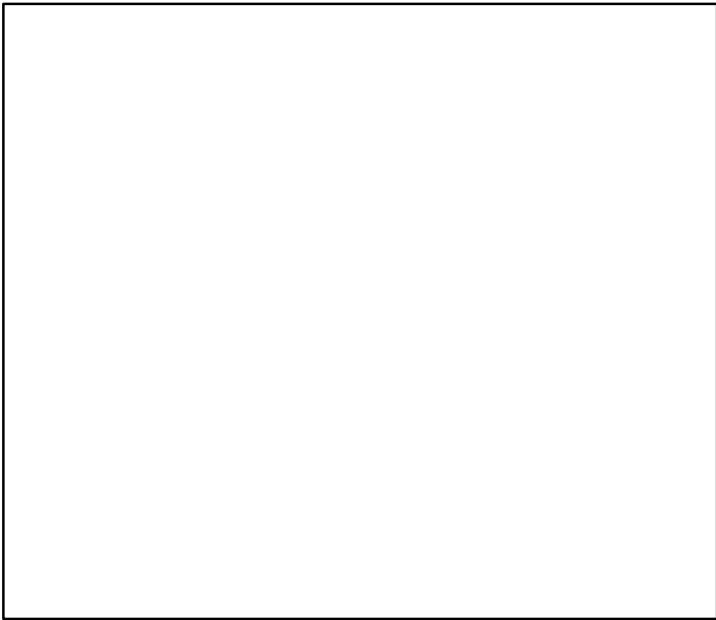
Kobe MSY*



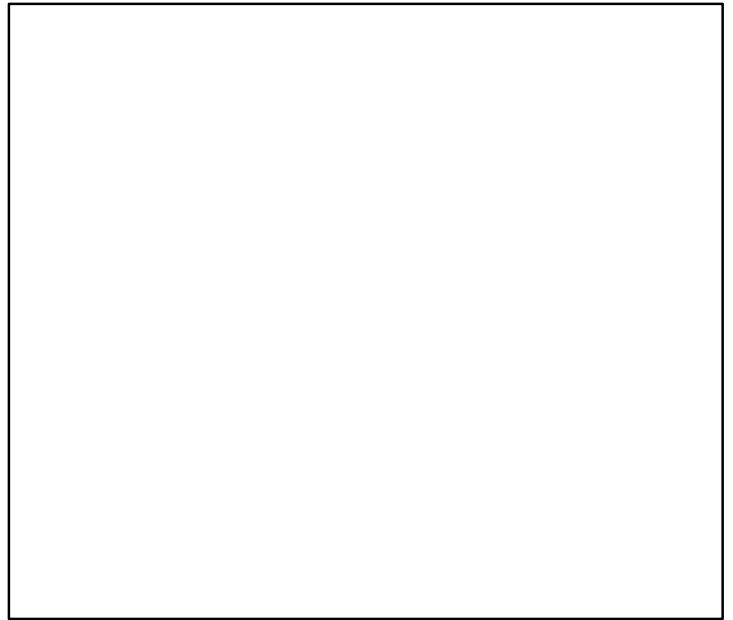
Kobe MGT*



Spawner Recruit*



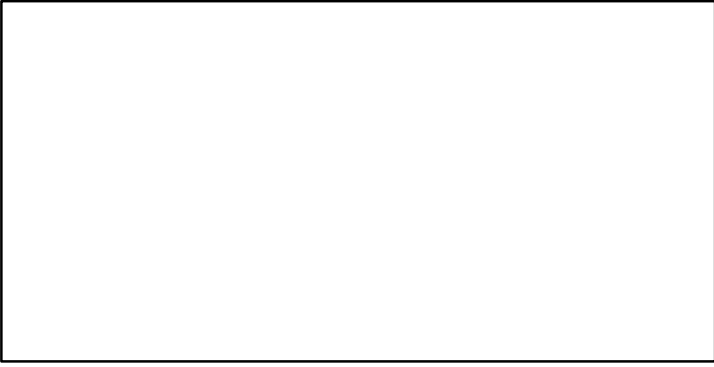
Production*



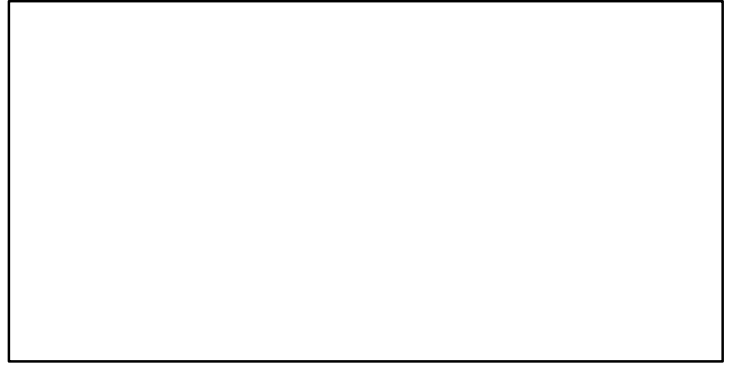
◆ Start Year ◆ End Year * No Data

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

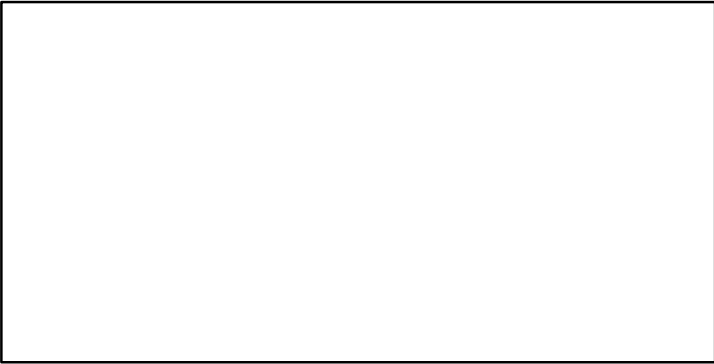
TB*



SSB*



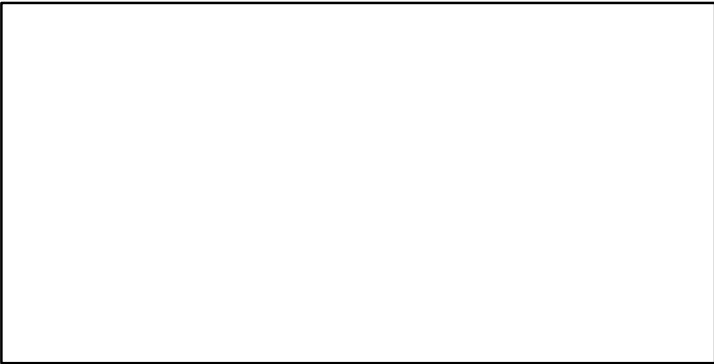
TN *



F*



ER*



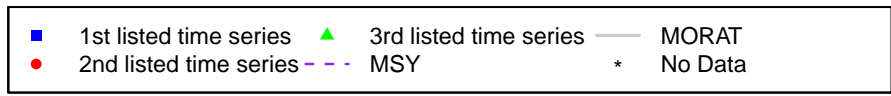
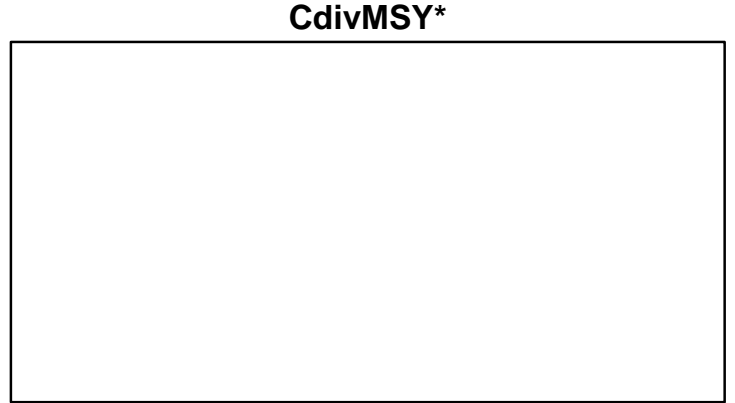
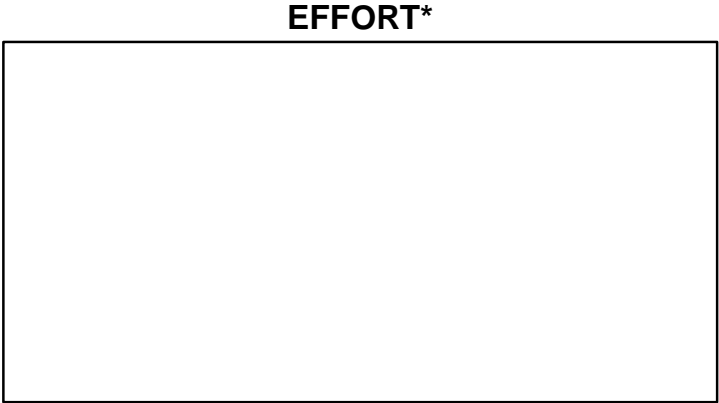
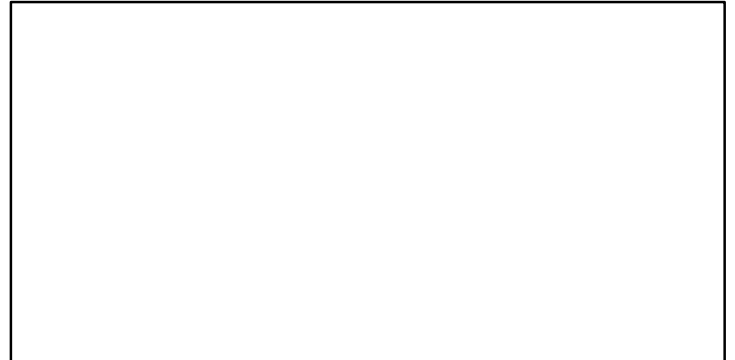
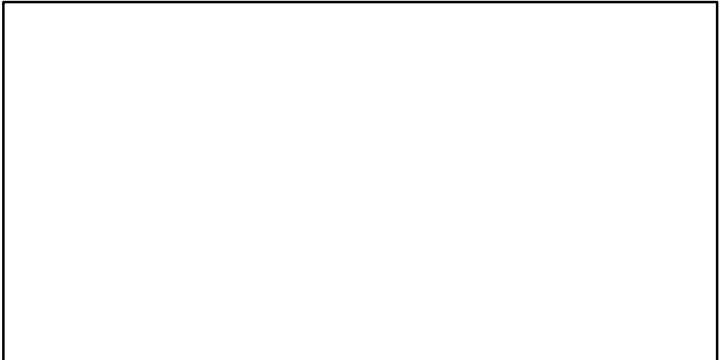
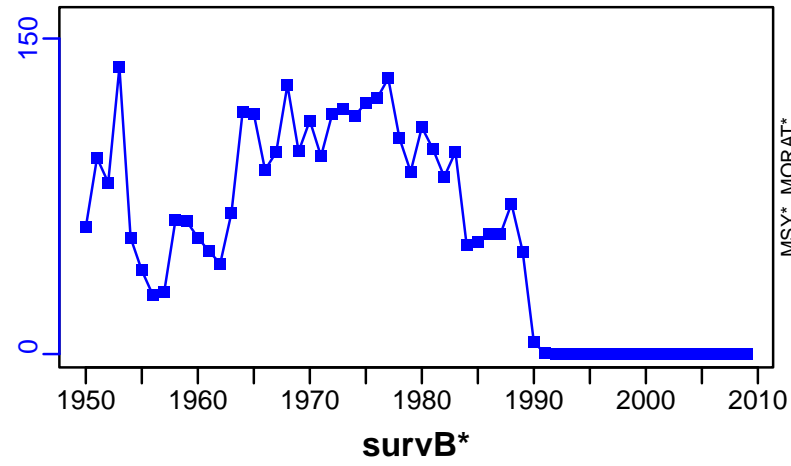
Recruits*



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

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

TAC*, Cpair*, Cadv*



Gray snapper Gulf of Mexico [GRSNAPGM]

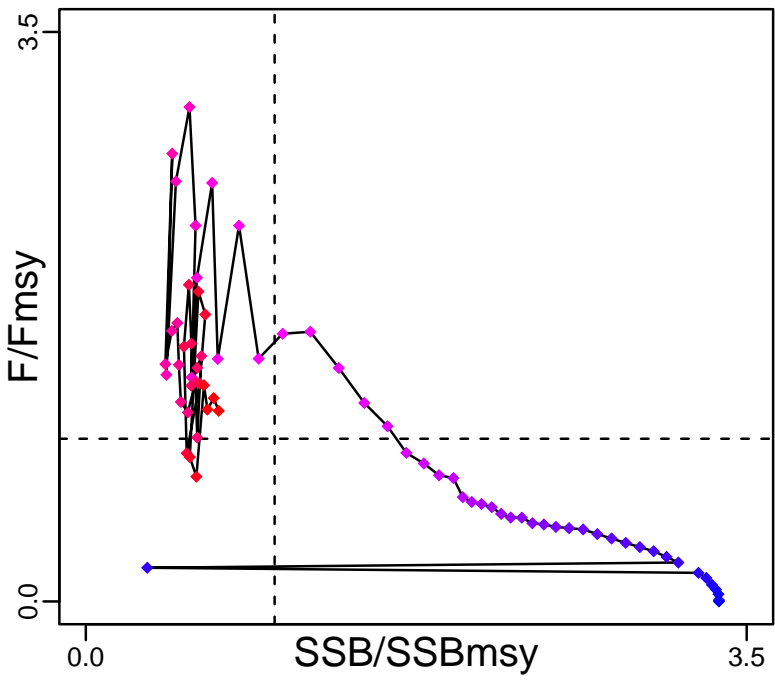
Metadata	
Scientific Name	Lutjanus griseus
Current Assess ID	SEFSC-GRSNAPGM-1945-2015-SISIMP2021
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2015

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

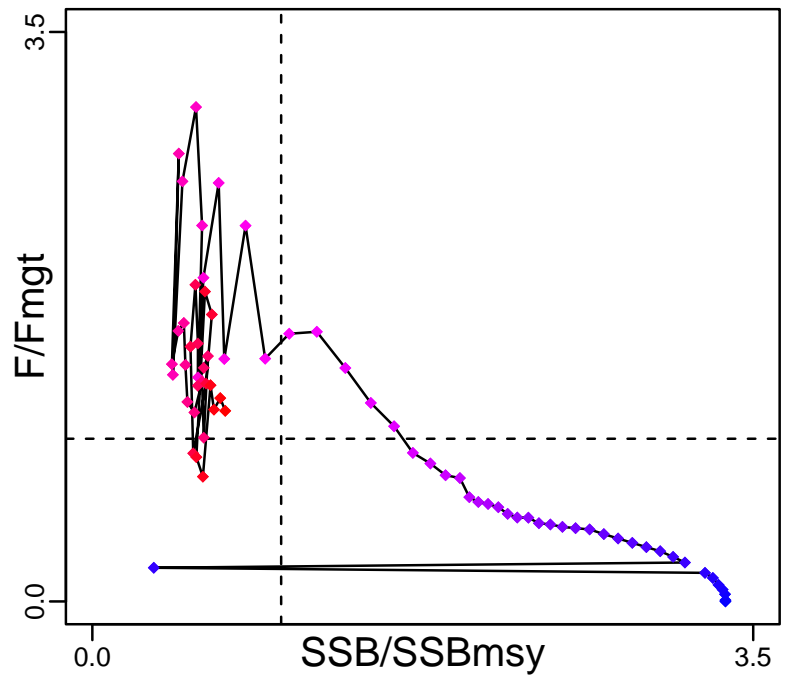
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	4660	-	-
TN	-	-	-	-	-
R	R-E00	2015	10,223,200	-	0
F	F-1/yr	2015	0.135	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	882		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.704		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.171		
ER/ERmsy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

Gray snapper Gulf of Mexico [GRSNAPGM]

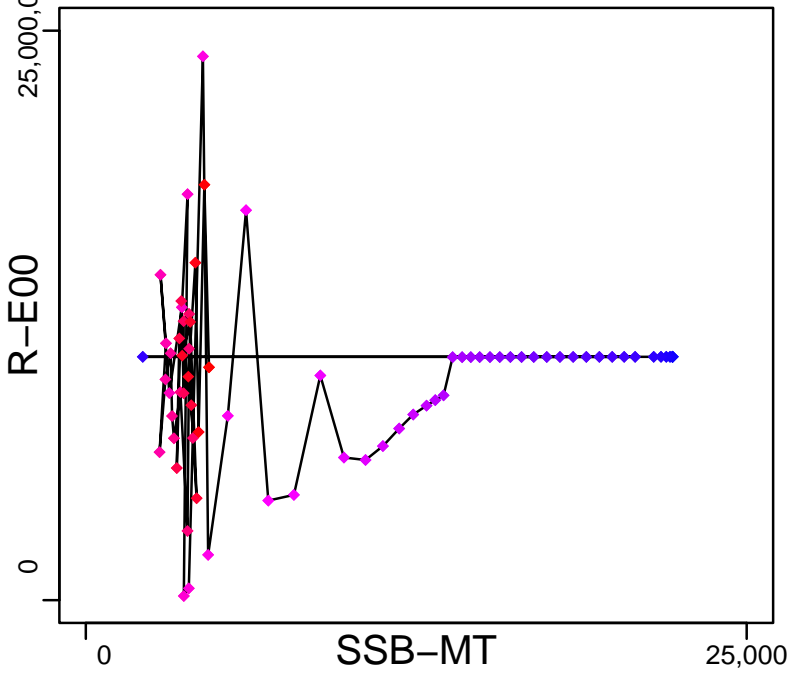
Kobe MSYpref (1945–2015–SISIMP2021)



Kobe MGTpref (1945–2015–SISIMP2021)



Spawner Recruit (1945–2015–SISIMP2021)



Production*



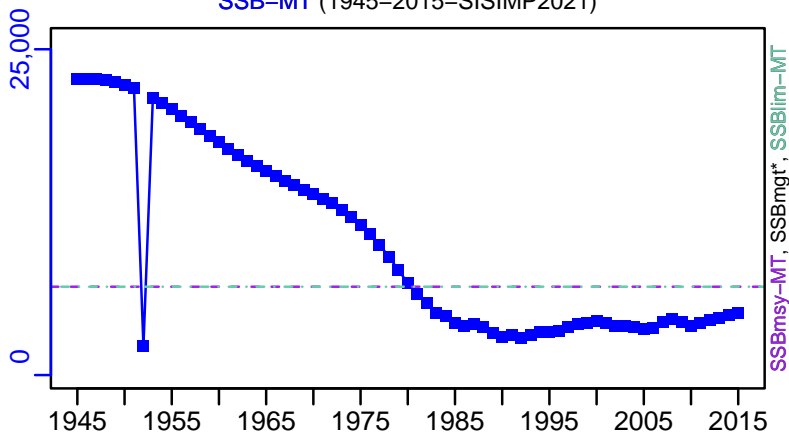
◆ Start Year ◆ End Year * No Data

Gray snapper Gulf of Mexico [GRSNAPGM]

TB*



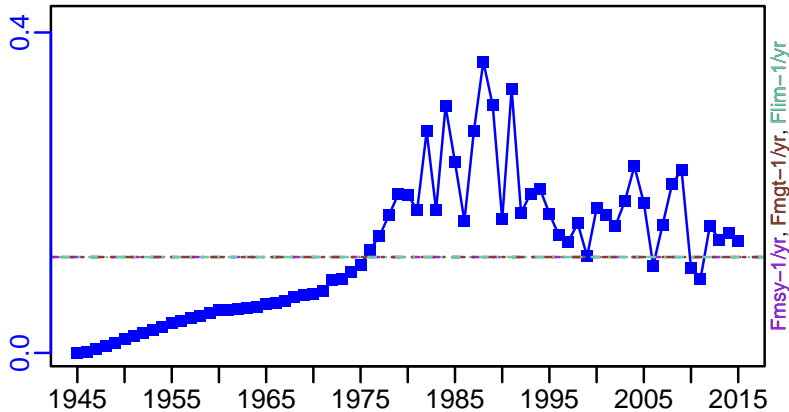
SSB-MT (1945-2015-SISIMP2021)



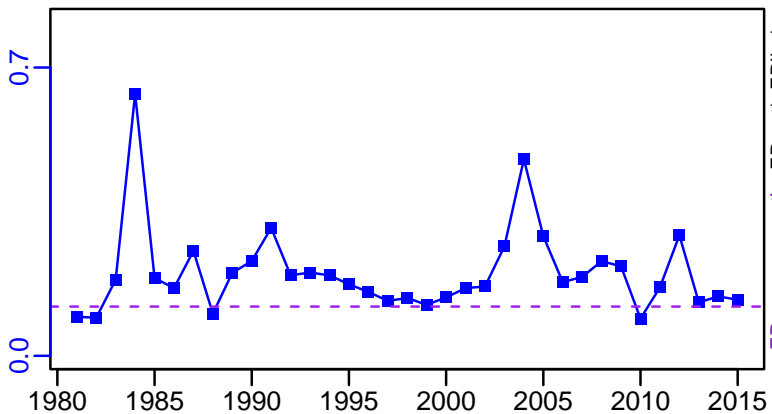
TN *



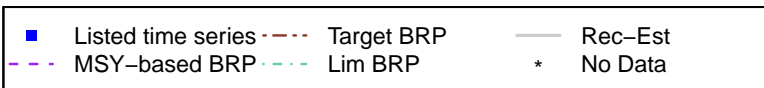
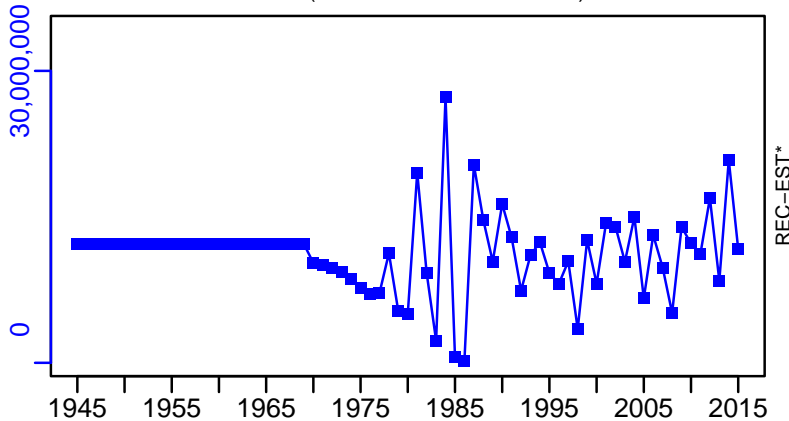
F-1/yr (1945-2015-SISIMP2021)



ER-calc-ratio (1945-2015-SISIMP2021)



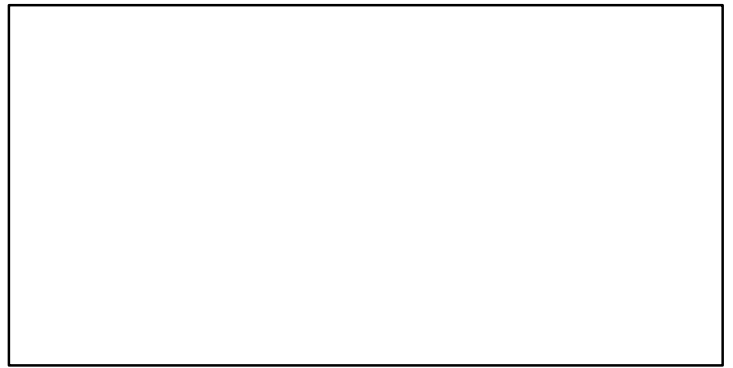
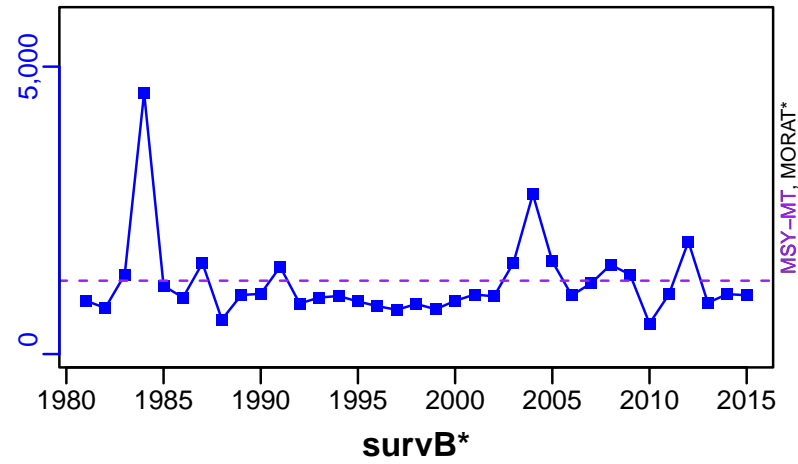
R-E00 (1945-2015-SISIMP2021)



Gray snapper Gulf of Mexico [GRSNAPGM]

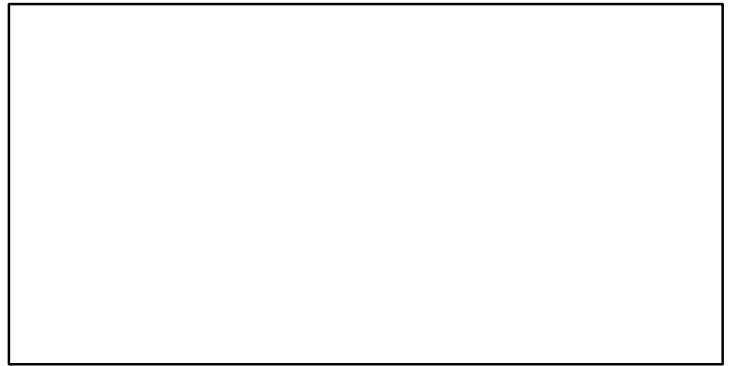
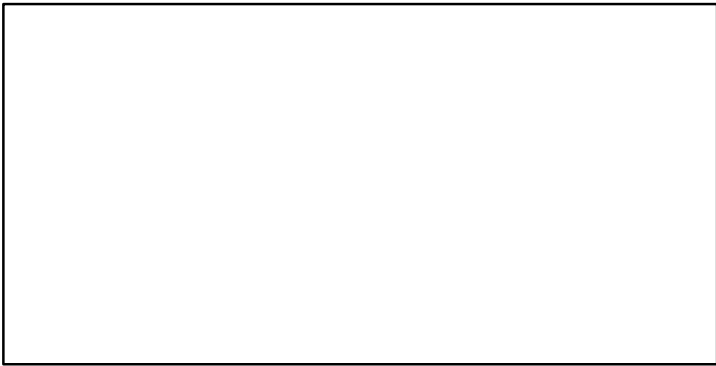
TC-MT, TL*, RecC* (1945-2015-SISIMP2021)

TAC*, Cpair*, Cadv*



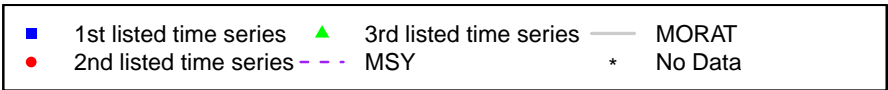
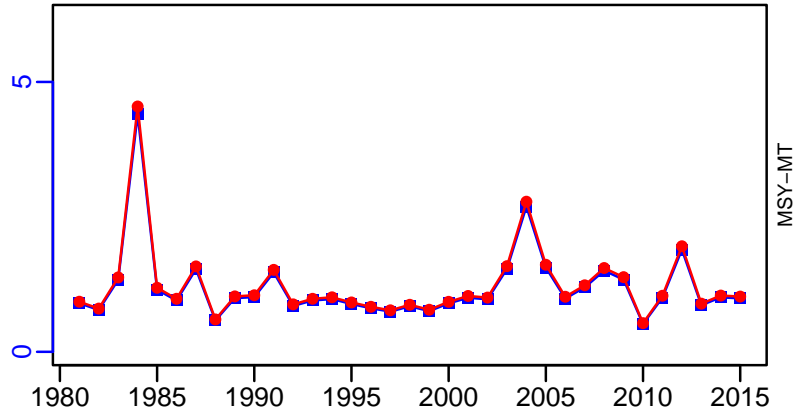
survB*

CPUE*



EFFORT*

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



Horsehead tilefish East China Sea [HHTILEECS]

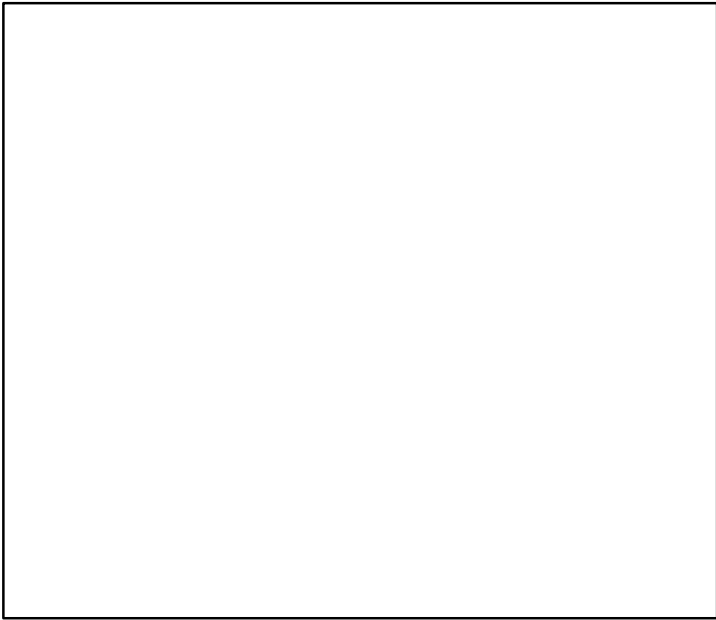
Metadata	
Scientific Name	Branchiostegus japonicus
Current Assess ID	FAFRFJ-HHTILEECS-1985-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

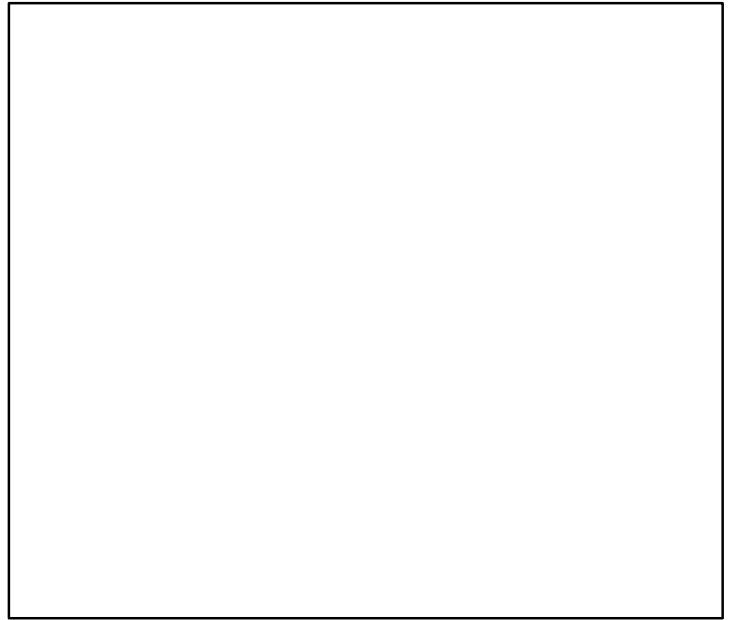
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	611		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Horsehead tilefish East China Sea [HHTILEECS]

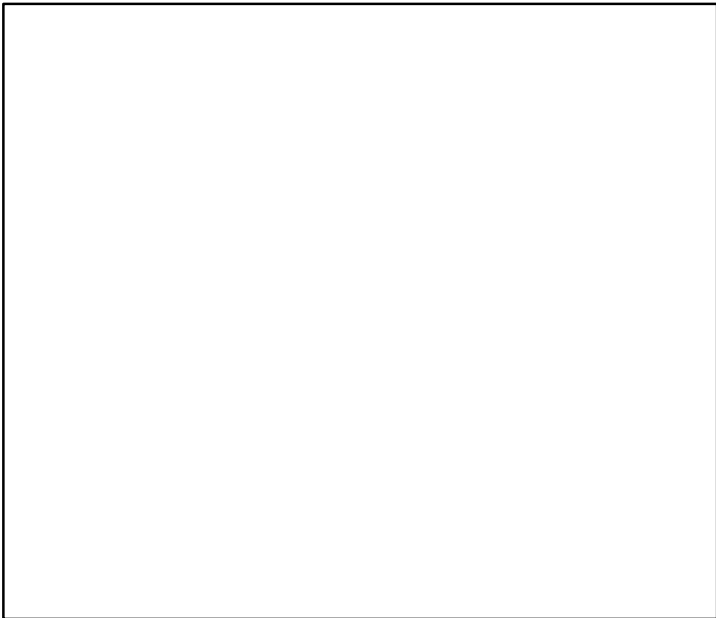
Kobe MSY*



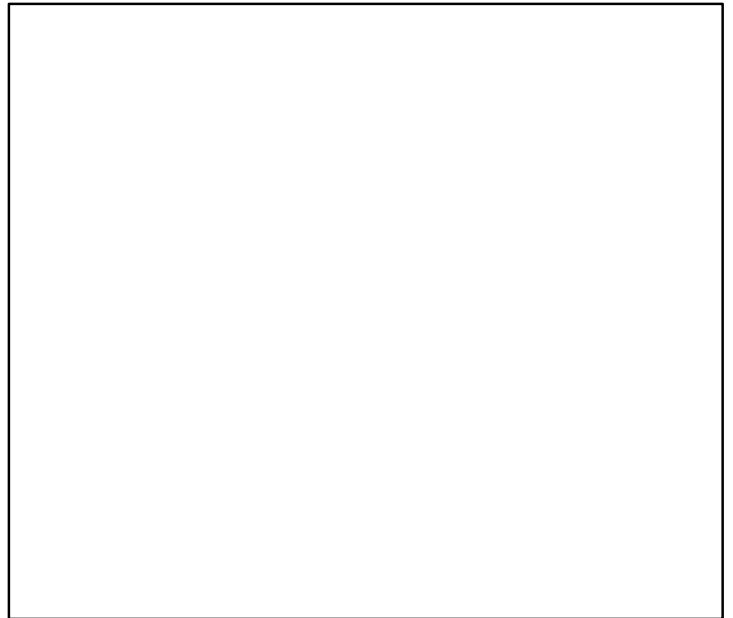
Kobe MGT*



Spawner Recruit*



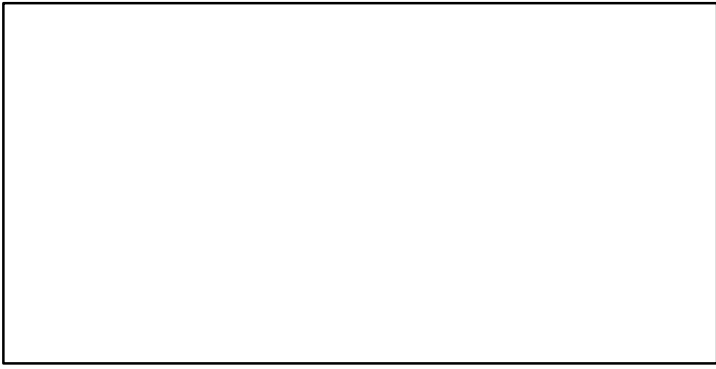
Production*



◆ Start Year ◆ End Year * No Data

Horsehead tilefish East China Sea [HHTILEECS]

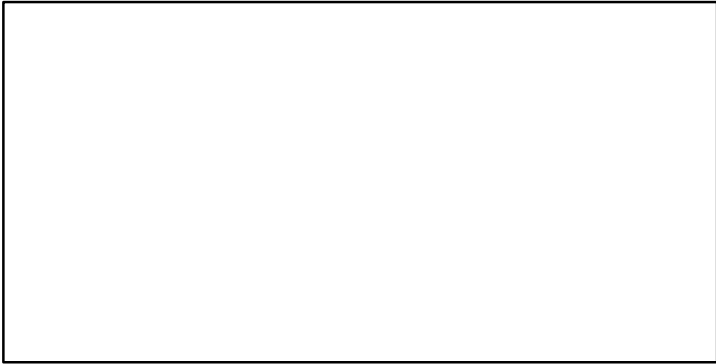
TB*



SSB*



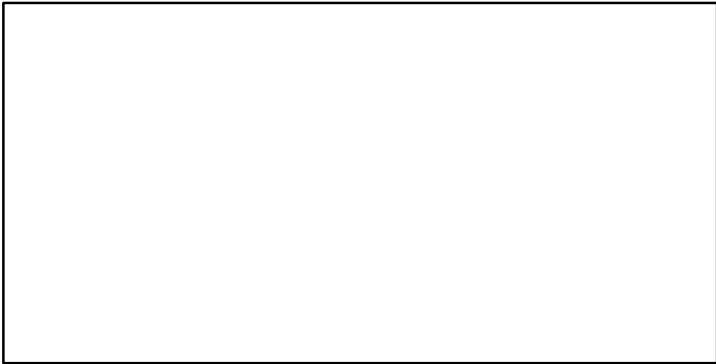
TN *



F*



ER*



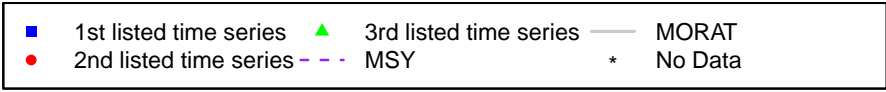
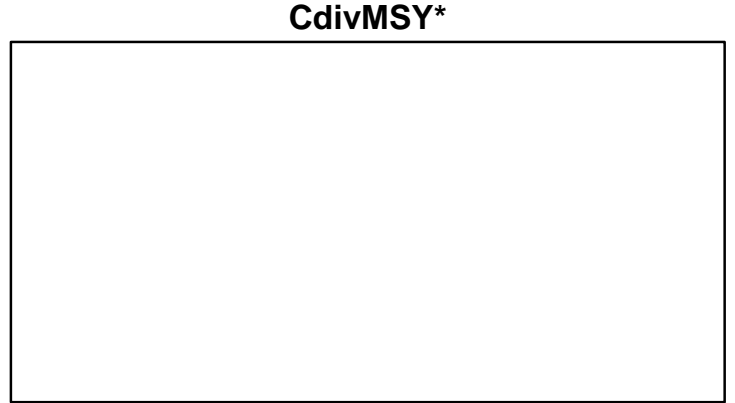
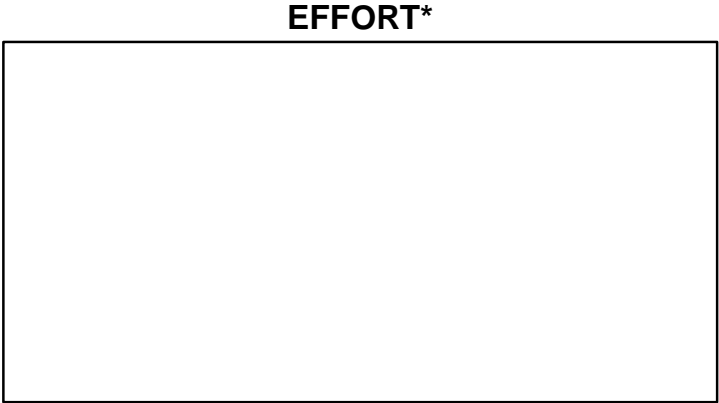
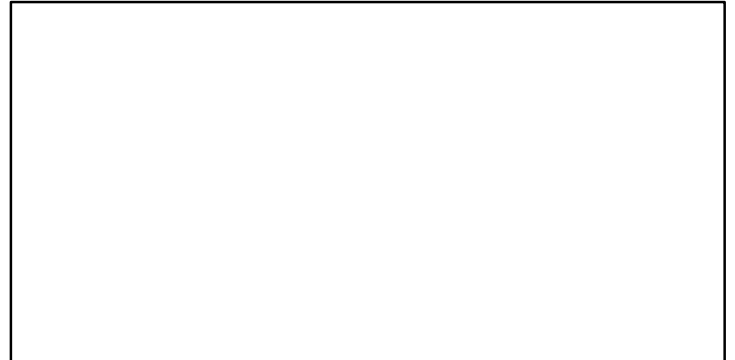
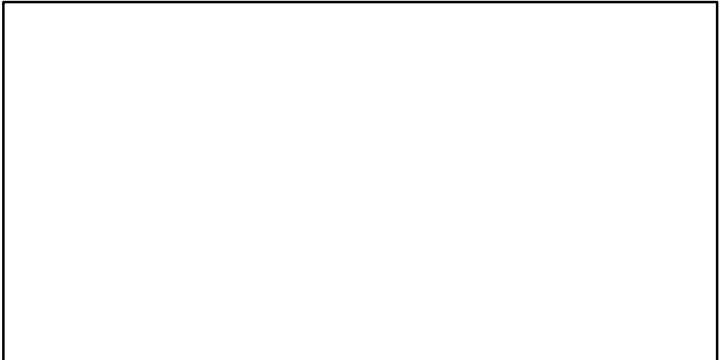
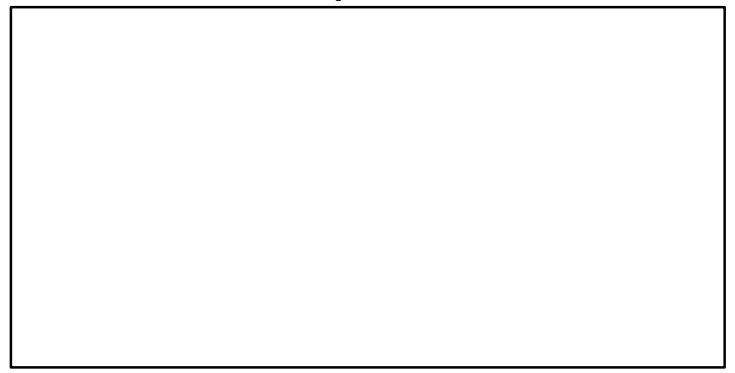
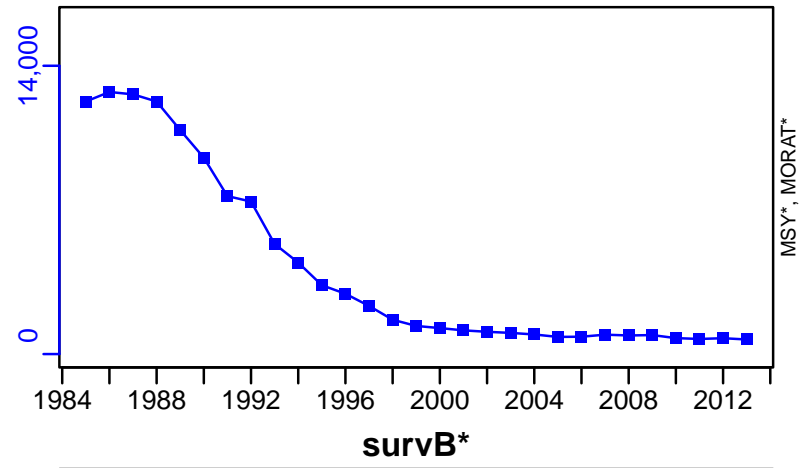
Recruits*



Horsehead tilefish East China Sea [HHTILEECS]

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

TAC*, Cpair*, Cadv*



Japanese snapper Okinawa Islands [JSNAPOKWI]

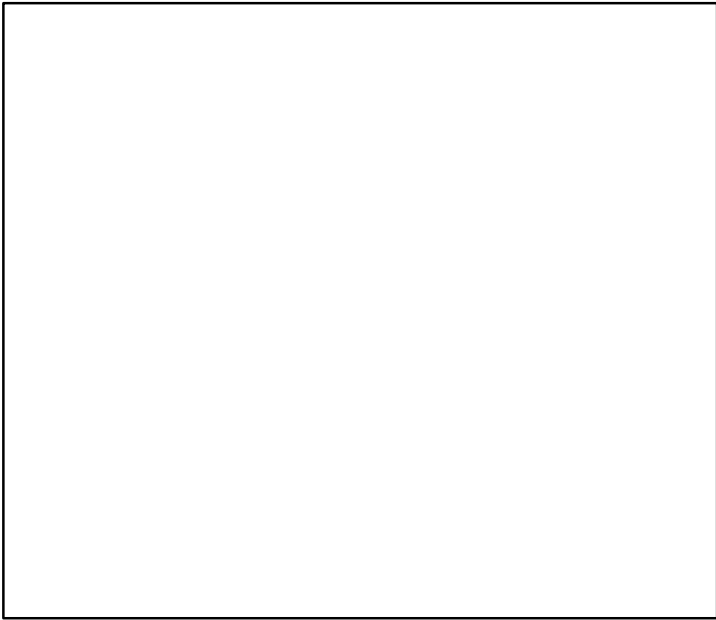
Metadata	
Scientific Name	Paracaesio caerulea
Current Assess ID	FAFRFJ-JSNAPOKWI-1989-2013-JPNIMP2016
Area	Okinawa Islands
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

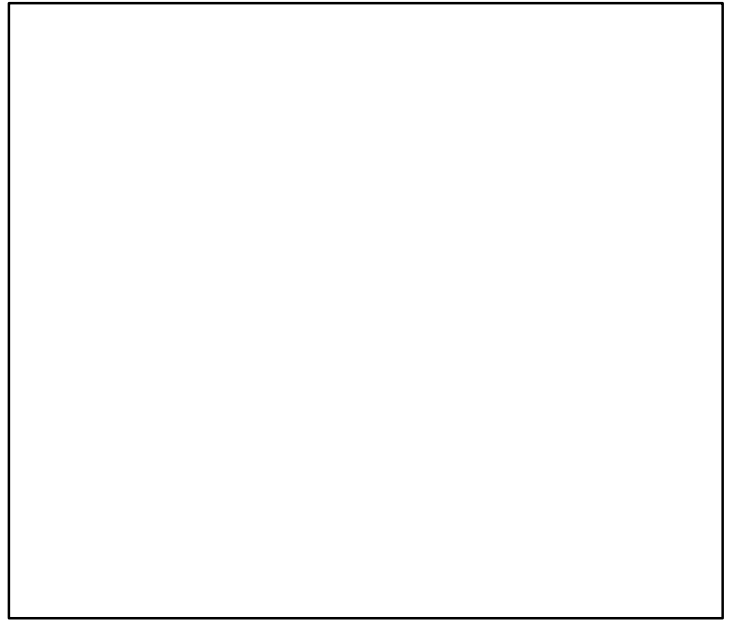
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	153		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese snapper Okinawa Islands [JSNAPOKWI]

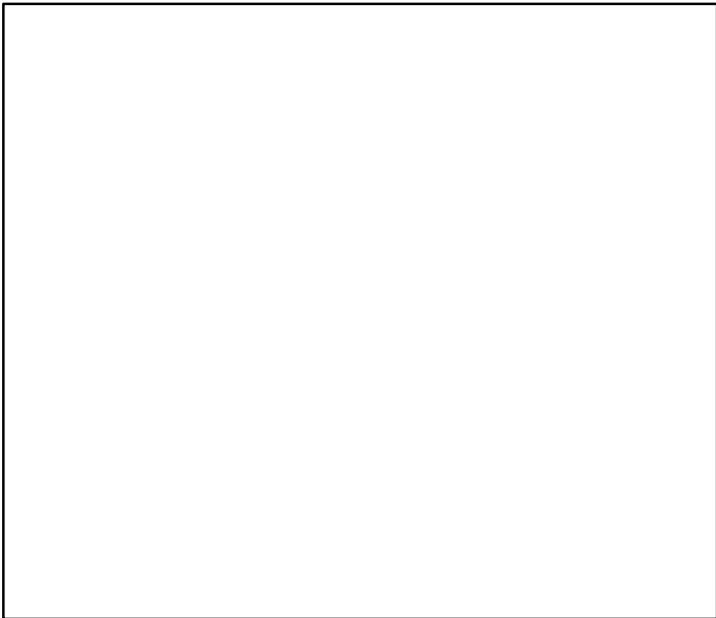
Kobe MSY*



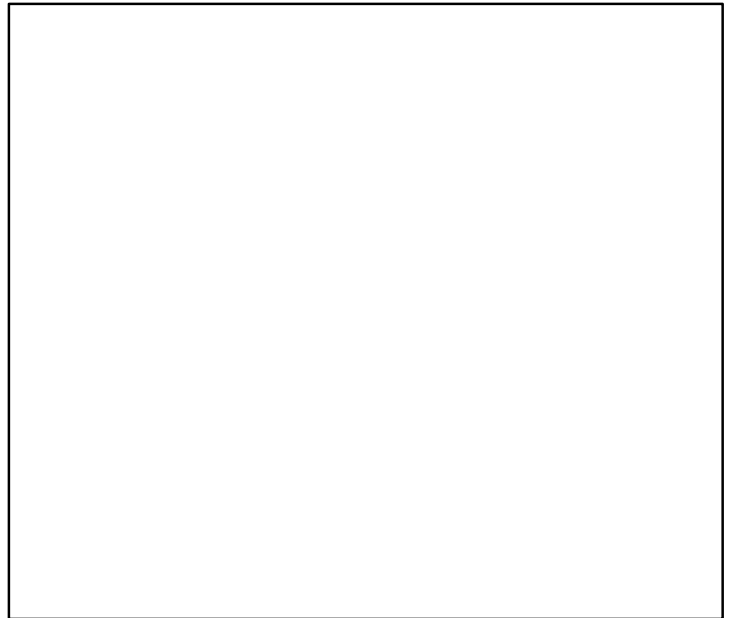
Kobe MGT*



Spawner Recruit*



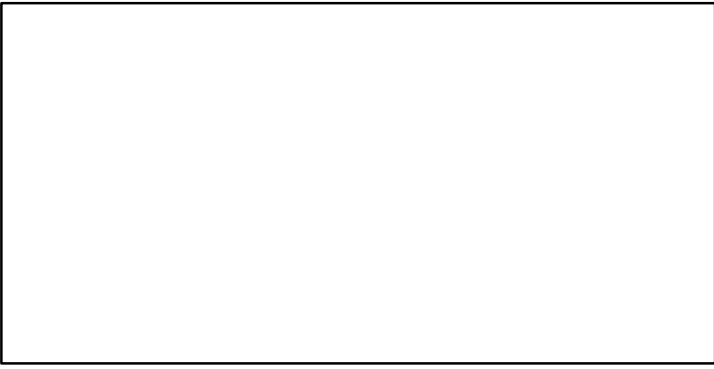
Production*



◆ Start Year ◆ End Year * No Data

Japanese snapper Okinawa Islands [JSNAPOKWI]

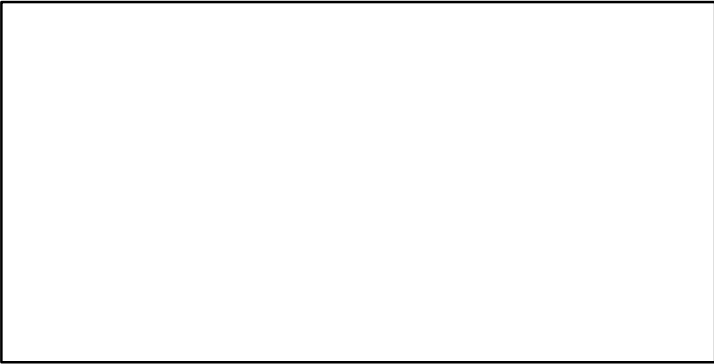
TB*



SSB*



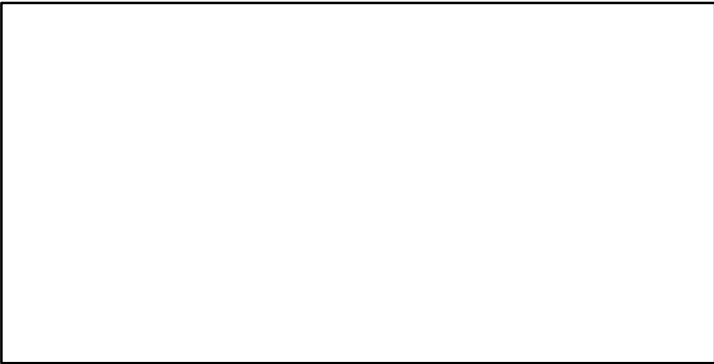
TN *



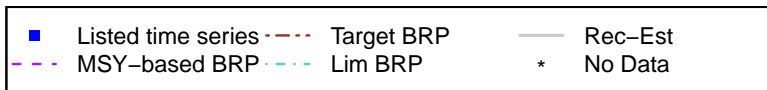
F*



ER*



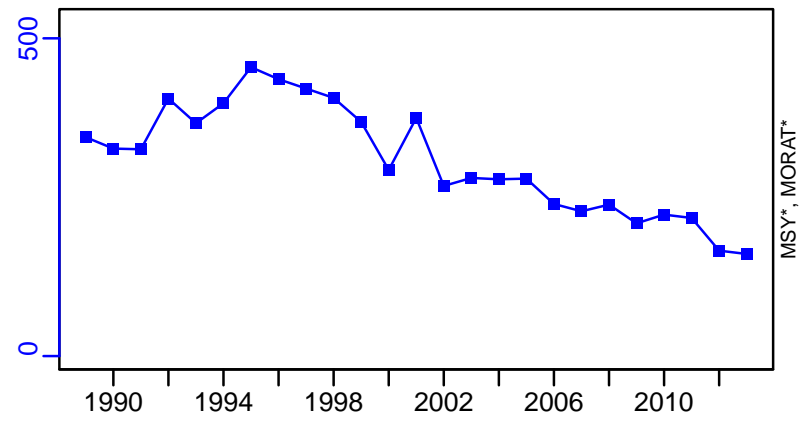
Recruits*



Japanese snapper Okinawa Islands [JSNAPOKWI]

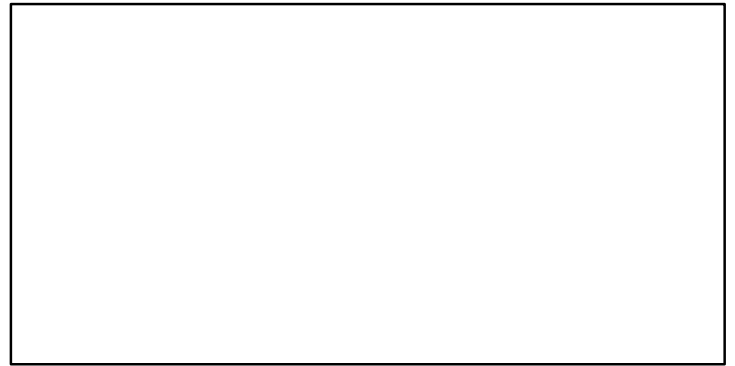
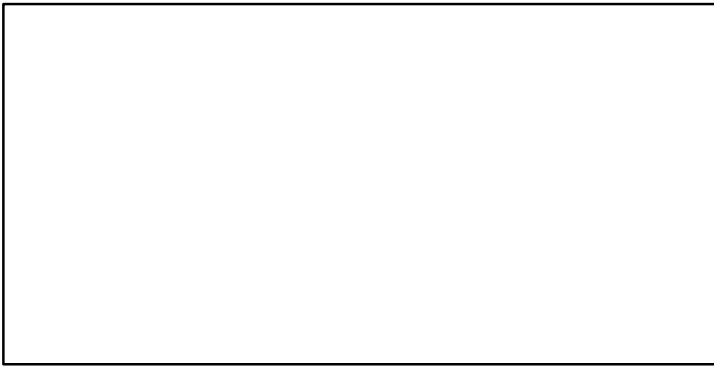
TC-MT, TL*, RecC* (1989-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



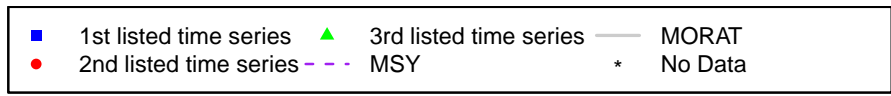
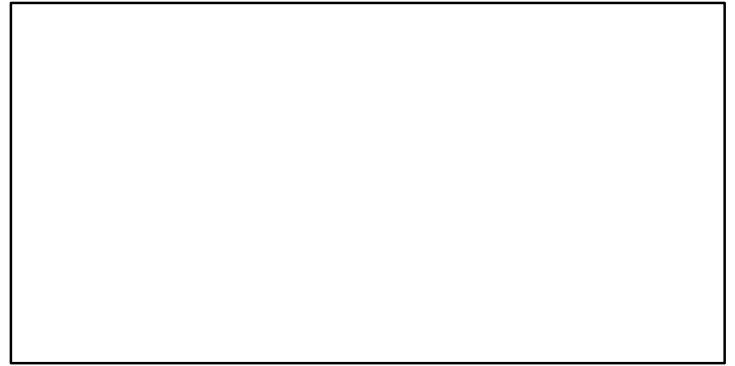
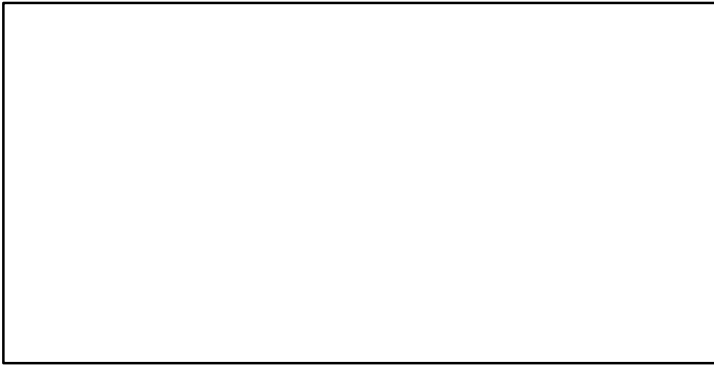
survB*

CPUE*



EFFORT*

CdivMSY*



Large eye dentex Central West Africa Angola [LDENTCWAAGO]

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

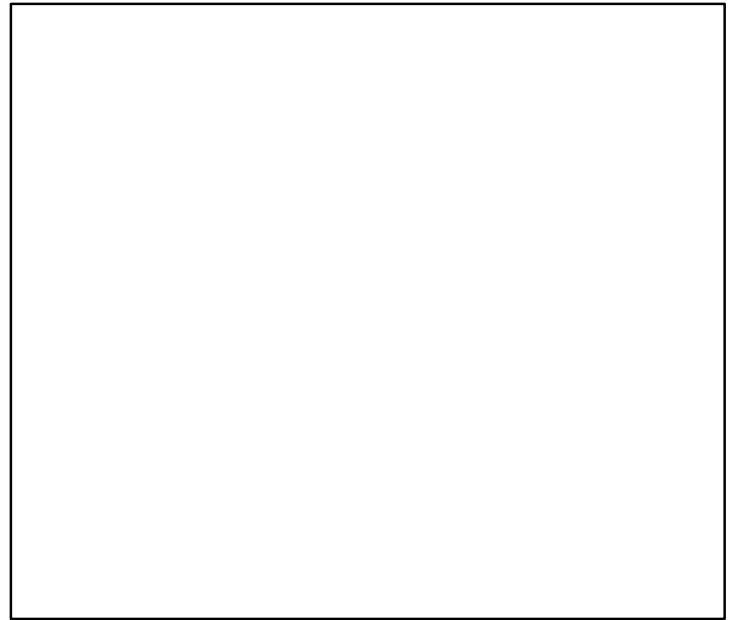
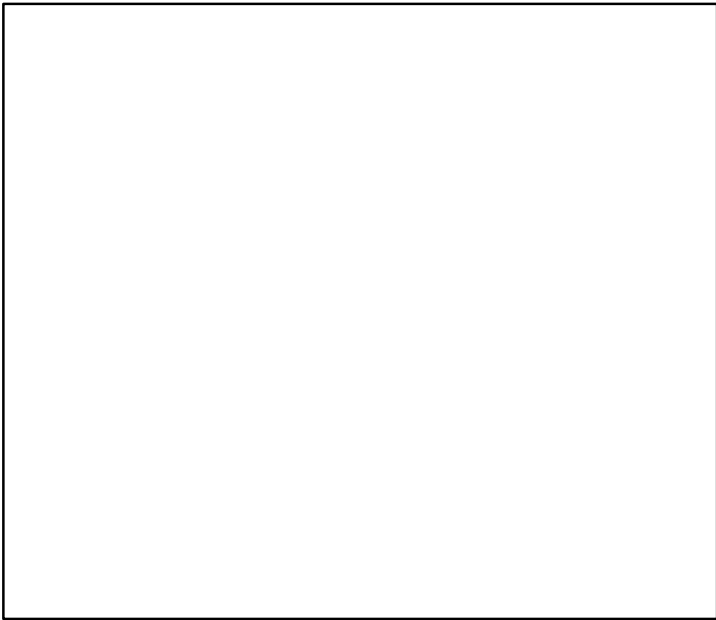
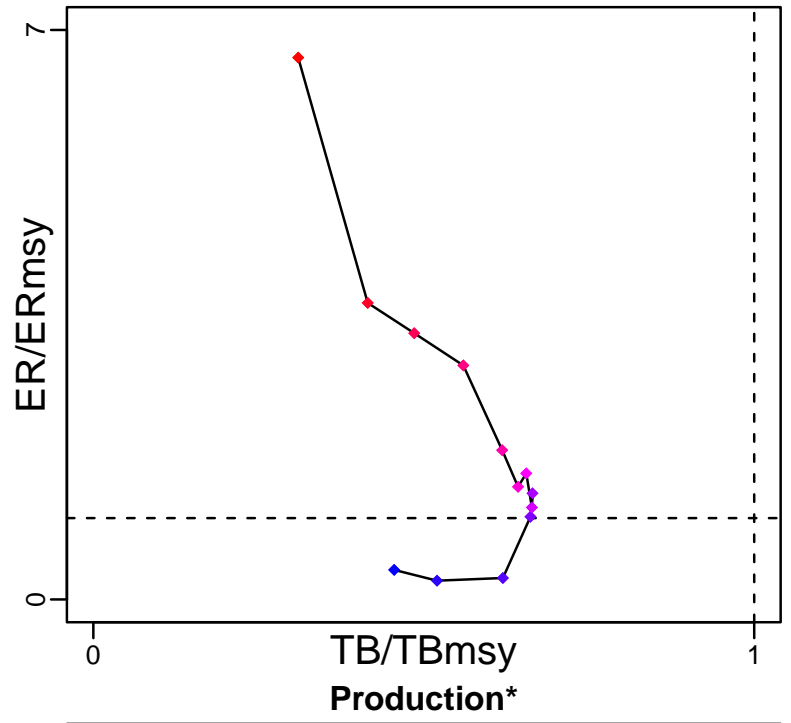
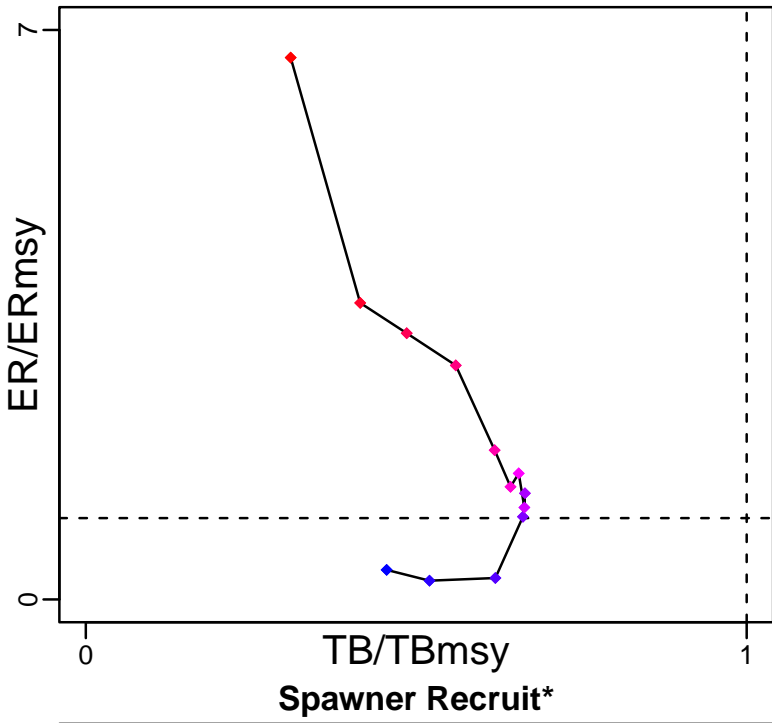
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

Large eye dentex Central West Africa Angola [LDENTCWAAGO]

Kobe MSYpref (1995–2007–CHING)

Kobe MGTpref (1995–2007–CHING)

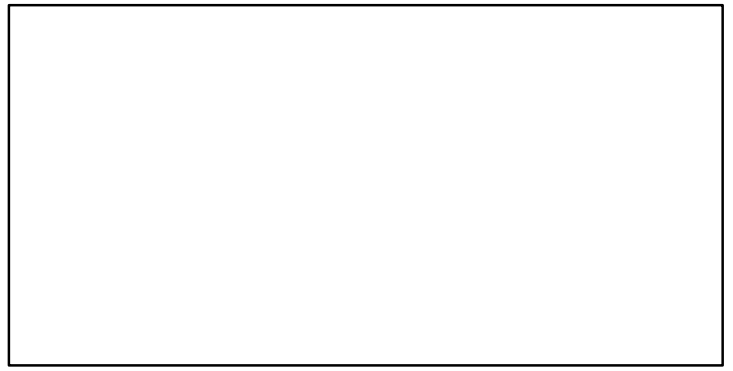
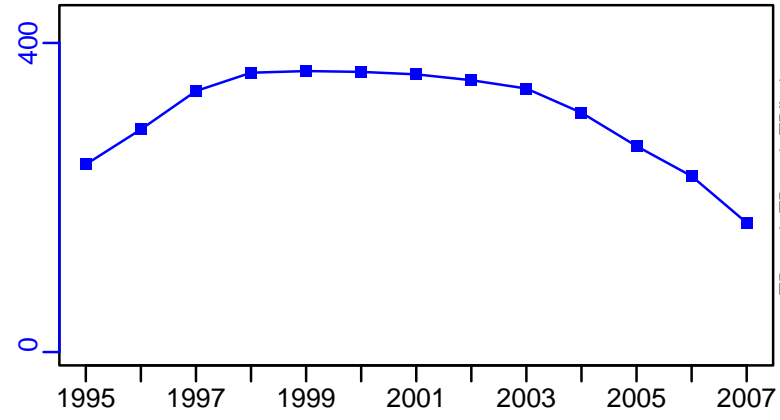


◆ Start Year ◆ End Year * No Data

Large eye dentex Central West Africa Angola [LDENTCWAAGO]

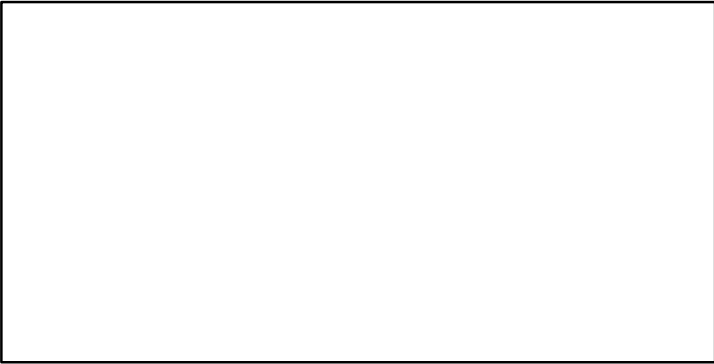
TB-index (1995-2007-CHING)

SSB*



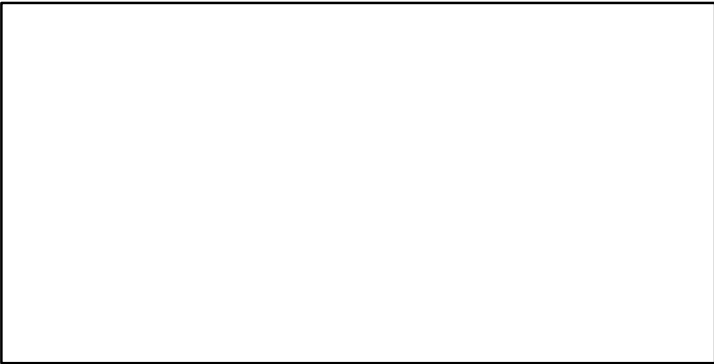
TN *

F*



ER*

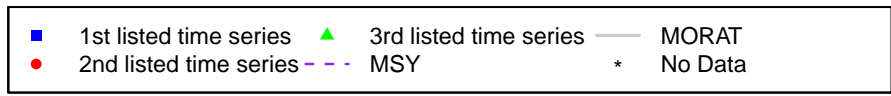
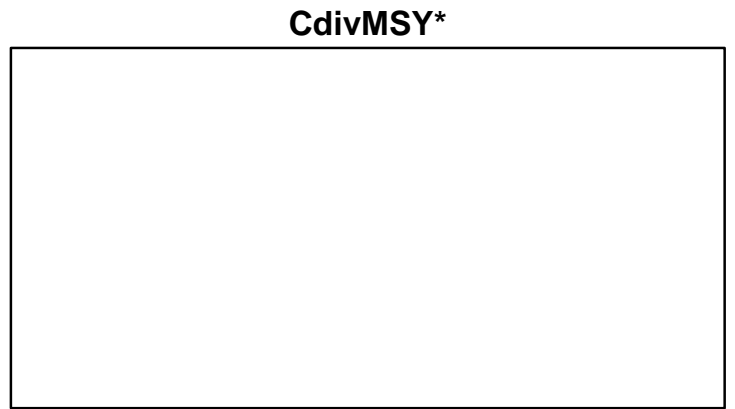
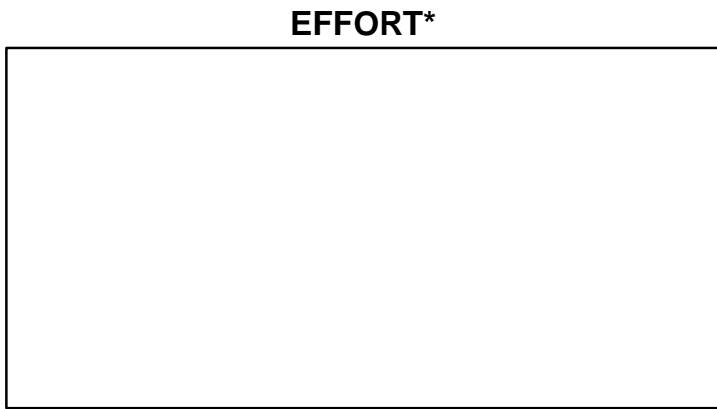
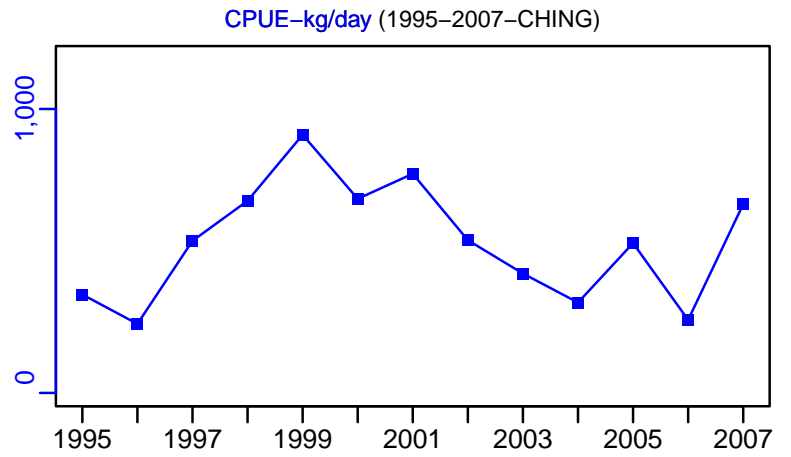
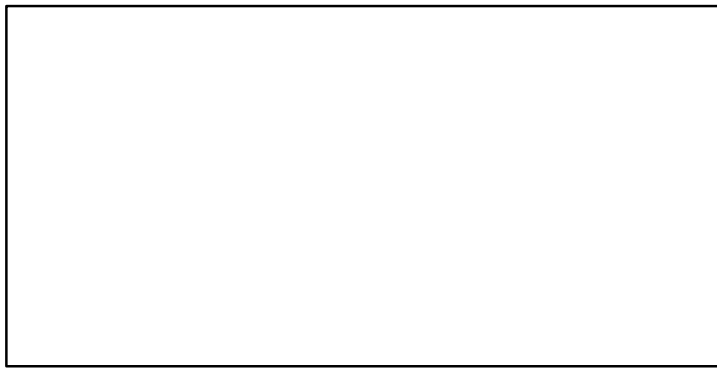
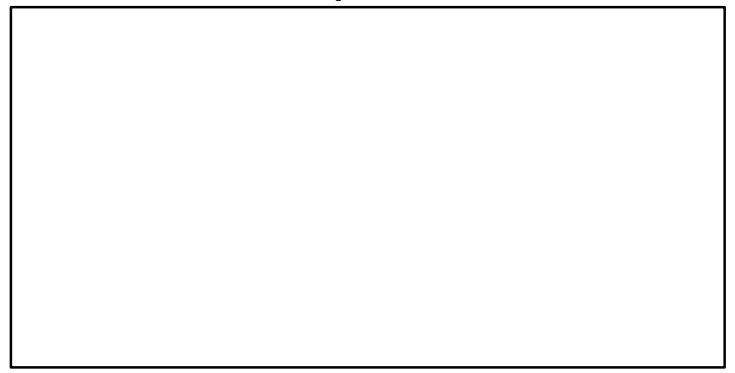
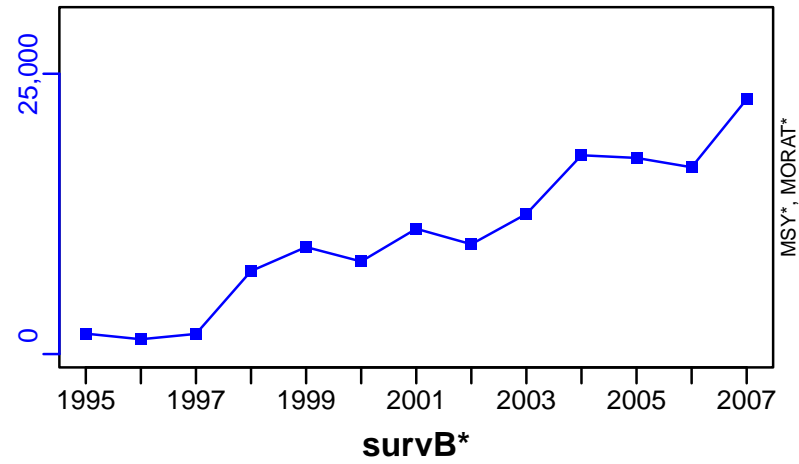
Recruits*



Large eye dentex Central West Africa Angola [LDENTCWAAGO]

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

TAC*, Cpair*, Cadv*



Large eye dentex North West Africa [LDENTNWA]

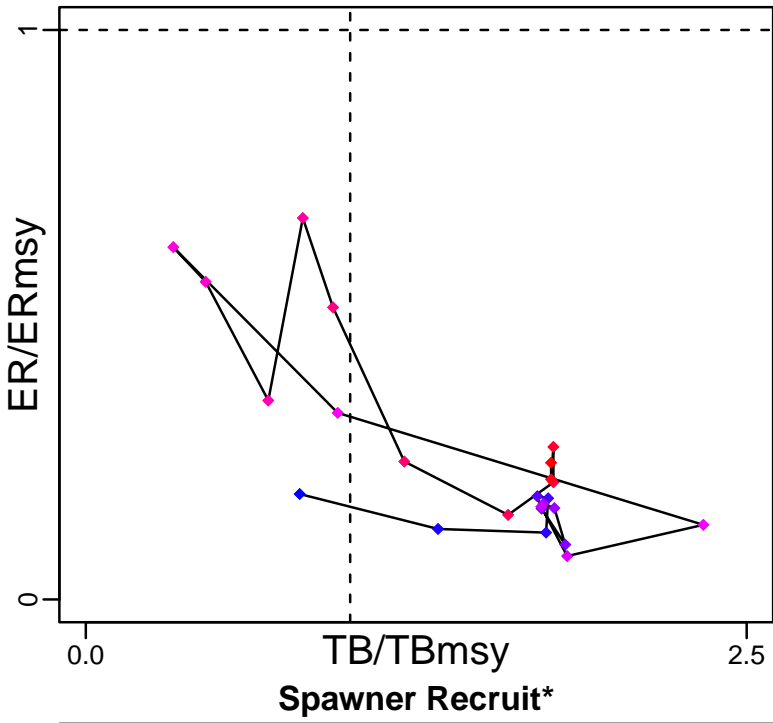
Metadata	
Scientific Name	Dentex macrophthalmus
Current Assess ID	FAO-DR-LDENTNWA-1982-2016-ASHBROOK
Area	North West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2016

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

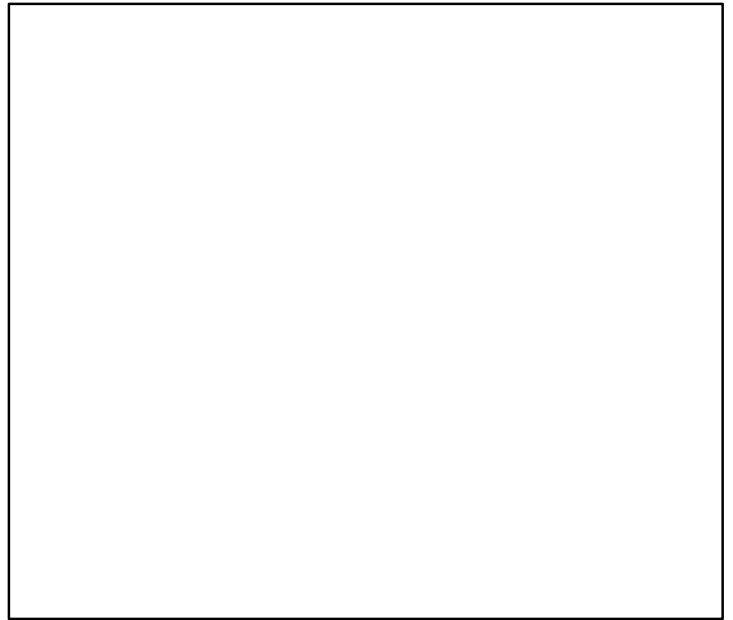
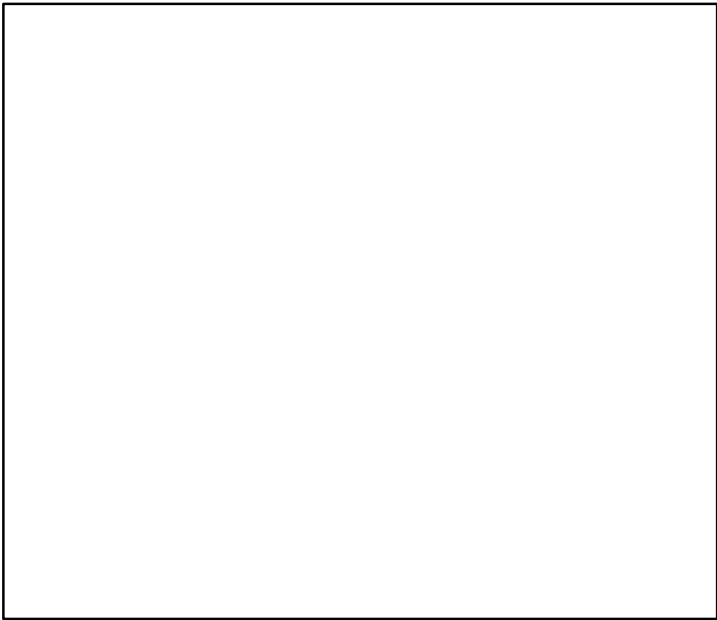
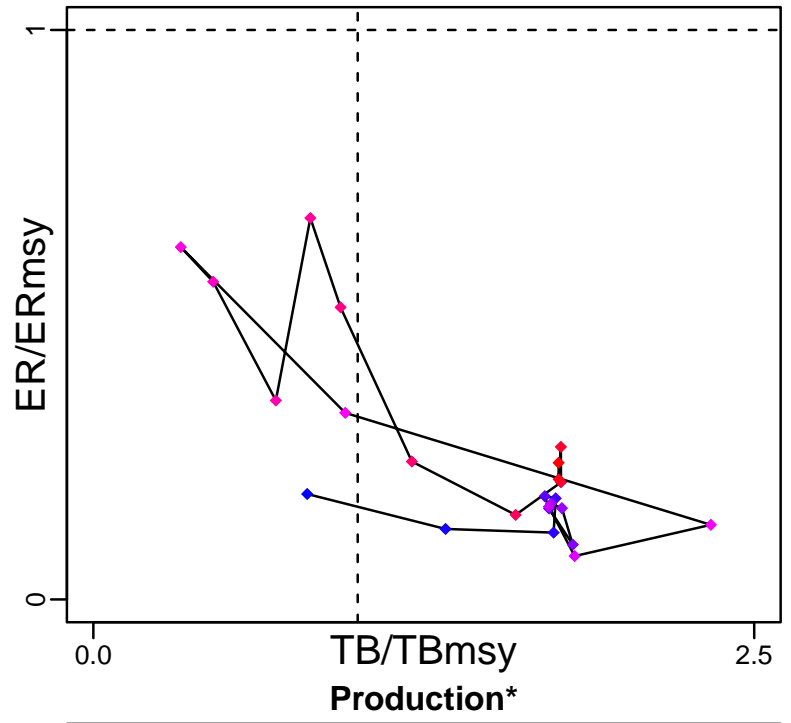
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	7188		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Large eye dentex North West Africa [LDENTNWA]

Kobe MSYpref (1982–2016–ASHBROOK)



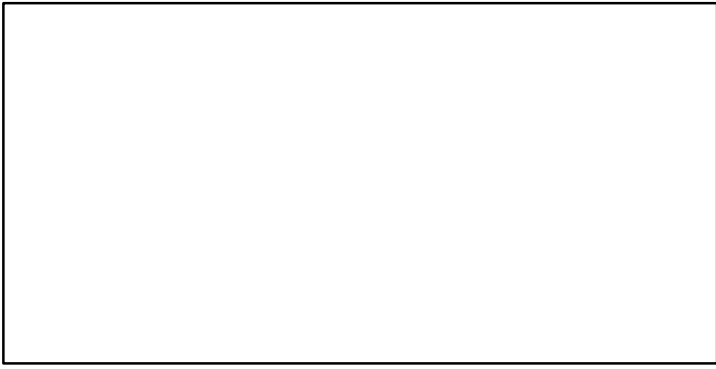
Kobe MGTpref (1982–2016–ASHBROOK)



◆ Start Year ◆ End Year * No Data

Large eye dentex North West Africa [LDENTNWA]

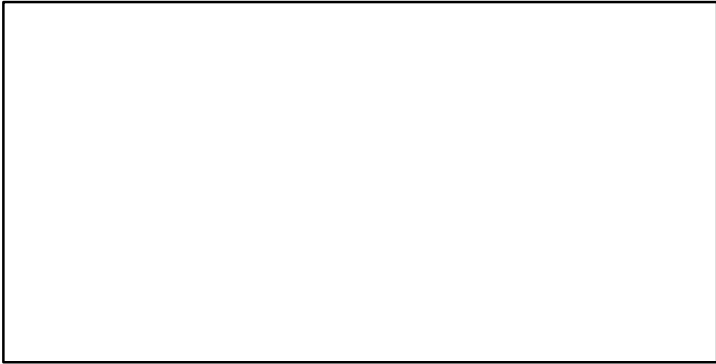
TB*



SSB*



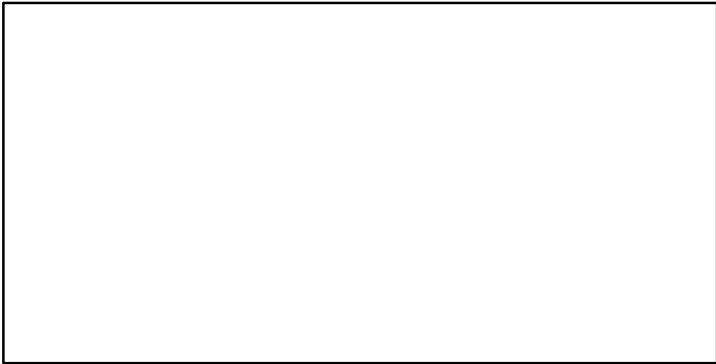
TN *



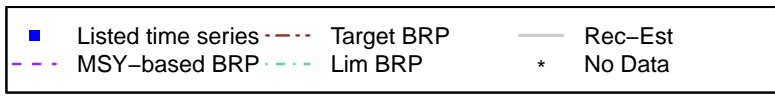
F*



ER*

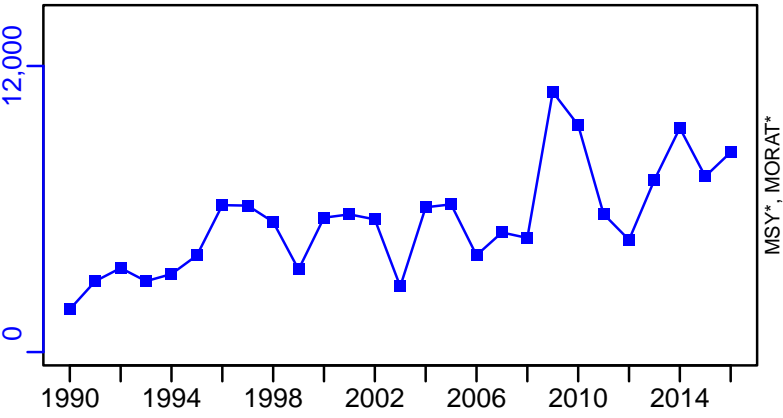


Recruits*

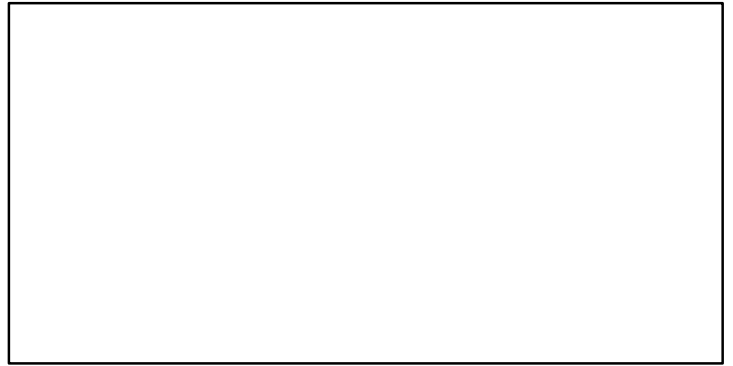


Large eye dentex North West Africa [LDENTNWA]

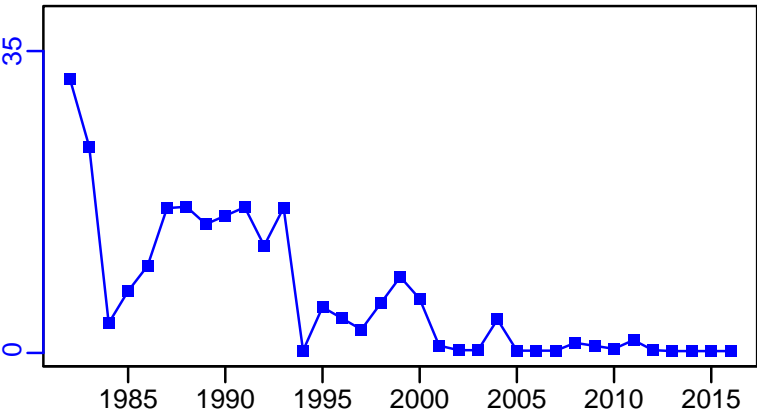
TC-MT, TL*, RecC* (1982-2016-ASHBROOK)



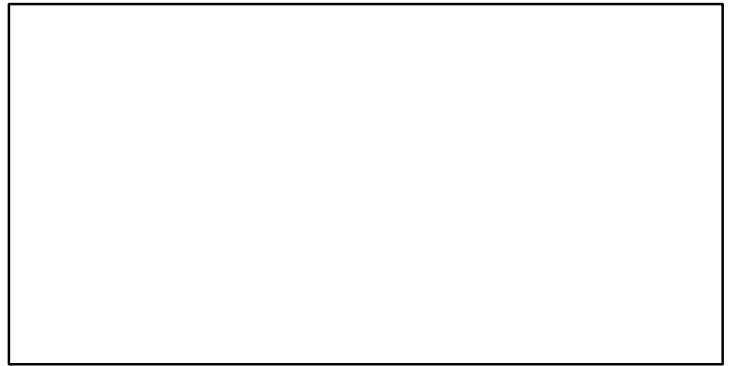
TAC*, Cpair*, Cadv*



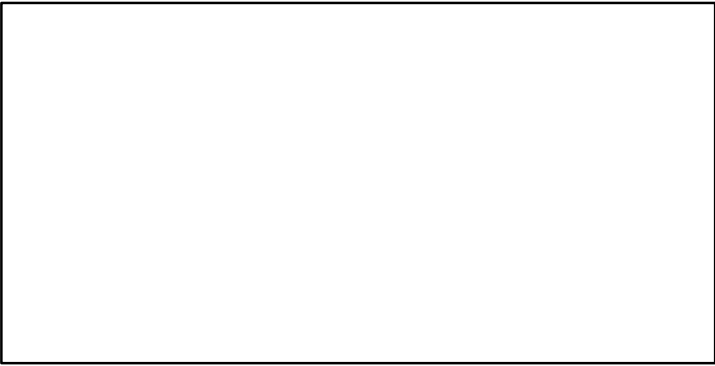
survB_index-index (1982-2016-ASHBROOK)



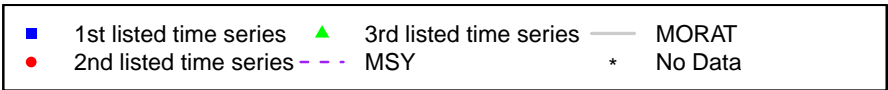
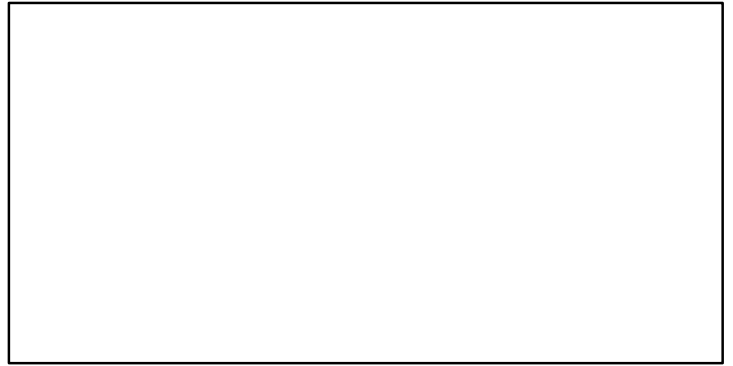
CPUE*



EFFORT*



CdivMSY*



Lavender jobfish Okinawa Islands [LJOBOKWI]

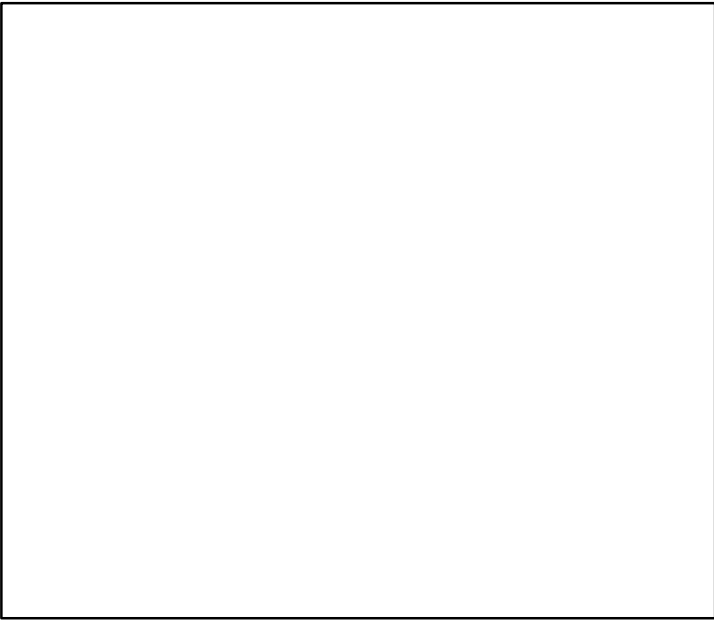
Metadata	
Scientific Name	Pristipomoides sieboldii
Current Assess ID	FAFRFJ-LJOBOKWI-1989-2013-JPNIMP2016
Area	Okinawa Islands
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

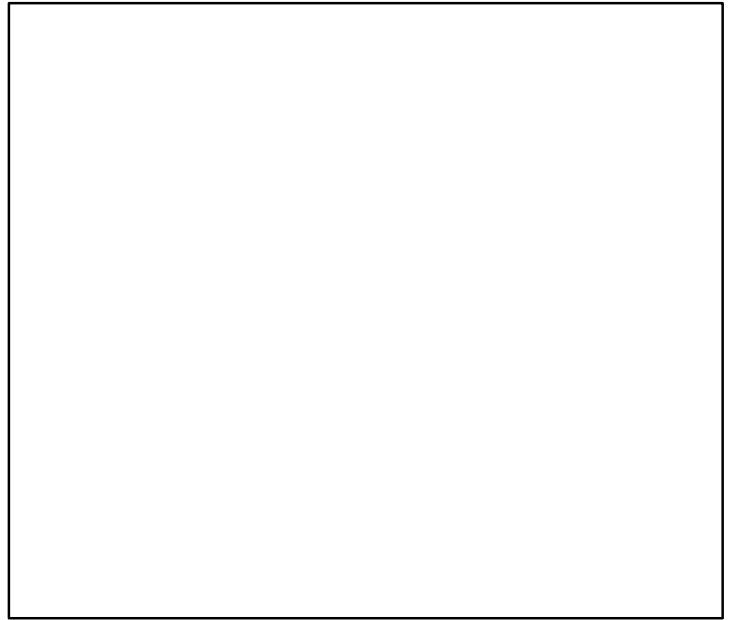
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	103		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Lavender jobfish Okinawa Islands [LJOBOKWI]

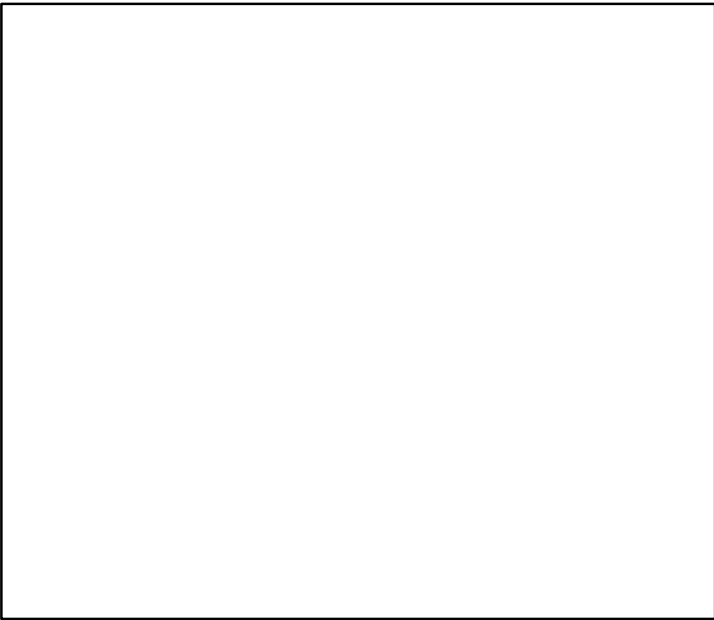
Kobe MSY*



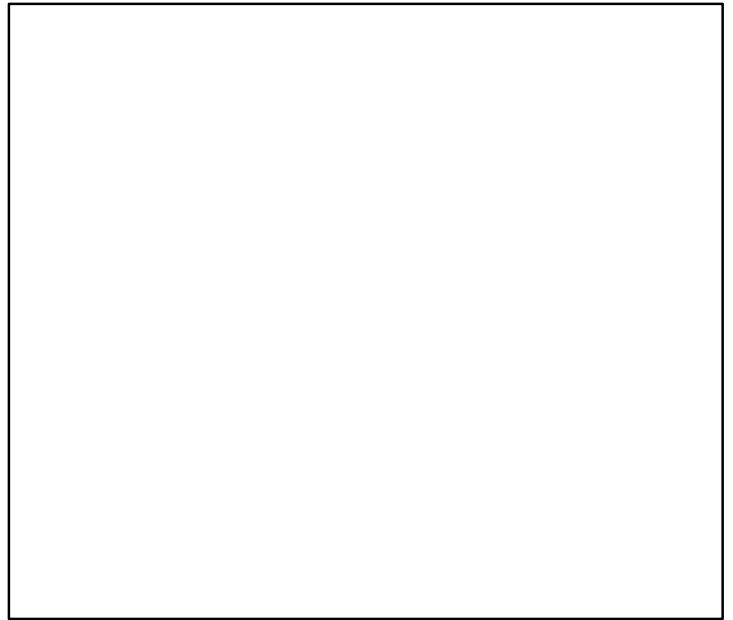
Kobe MGT*



Spawner Recruit*



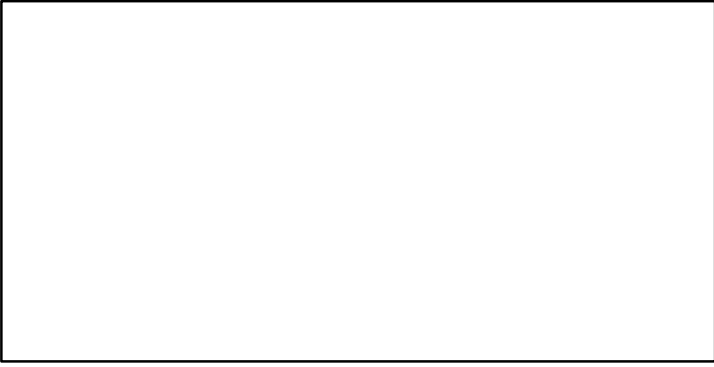
Production*



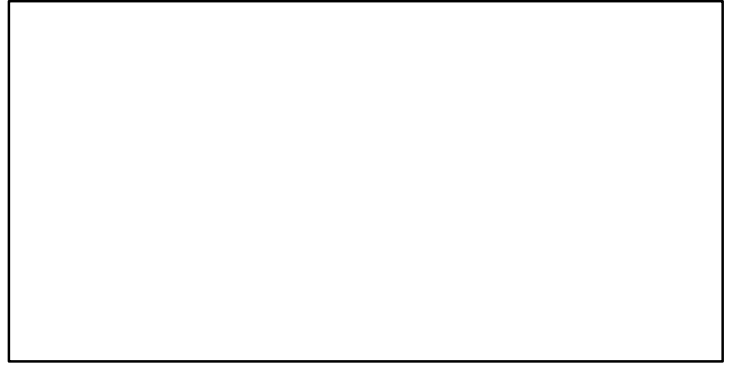
◆ Start Year ◆ End Year * No Data

Lavender jobfish Okinawa Islands [LJOBOKWI]

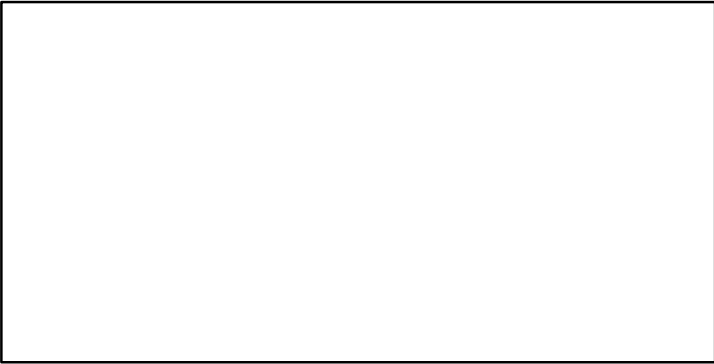
TB*



SSB*



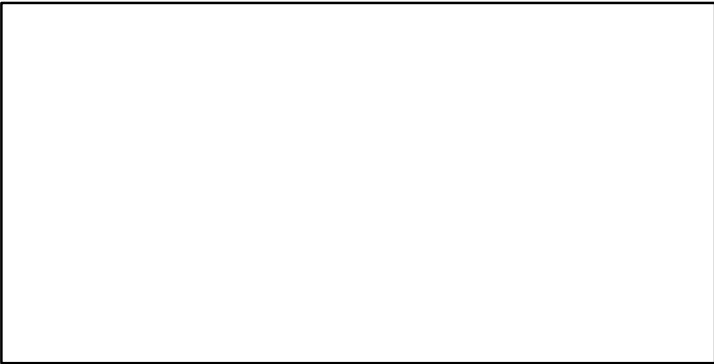
TN *



F*



ER*



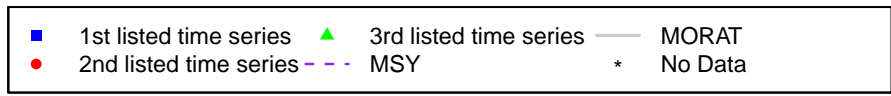
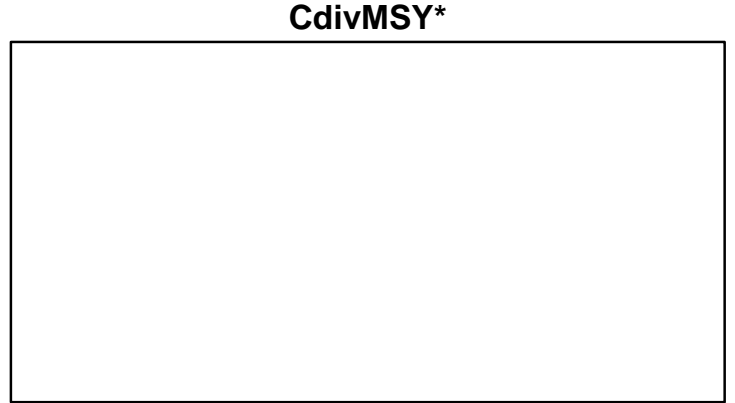
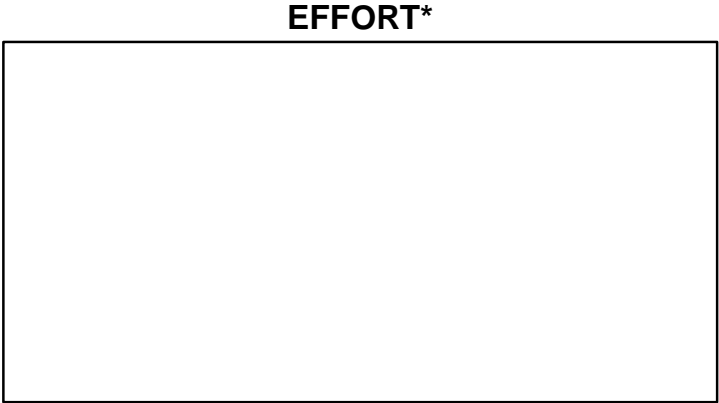
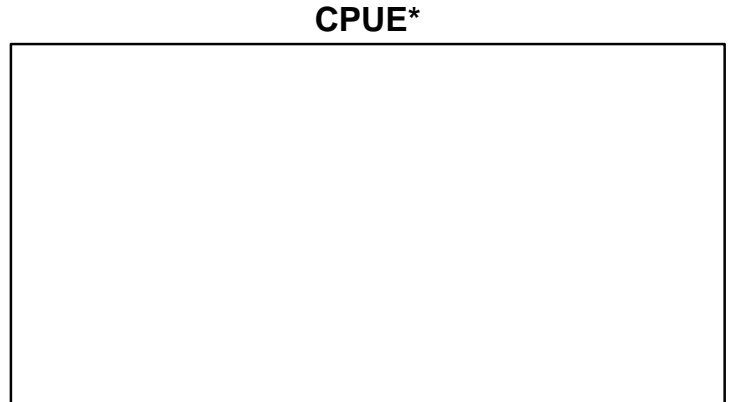
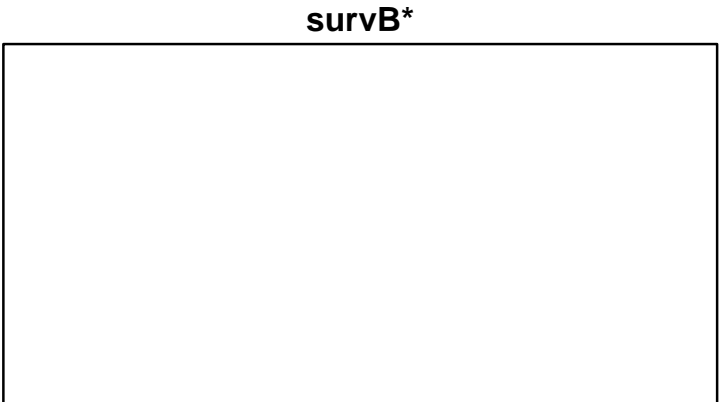
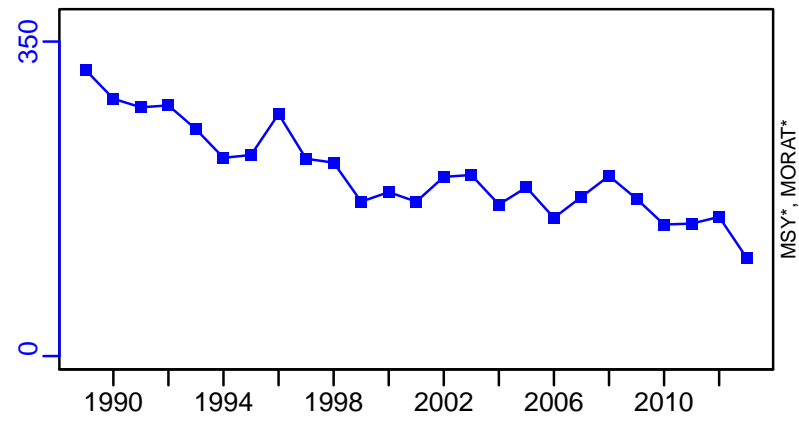
Recruits*



Lavender jobfish Okinawa Islands [LJOBOKWI]

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

TAC*, Cpair*, Cadv*



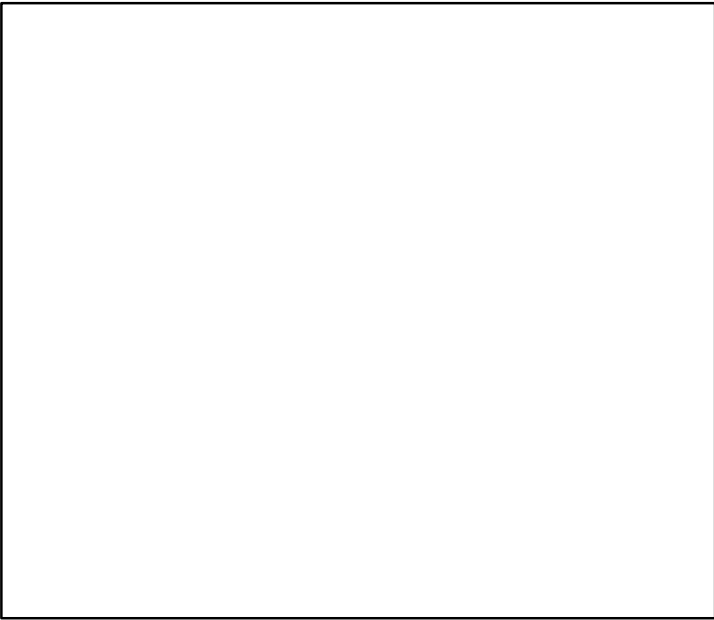
Lane snapper Gulf of Mexico [LNSNAPGM]

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

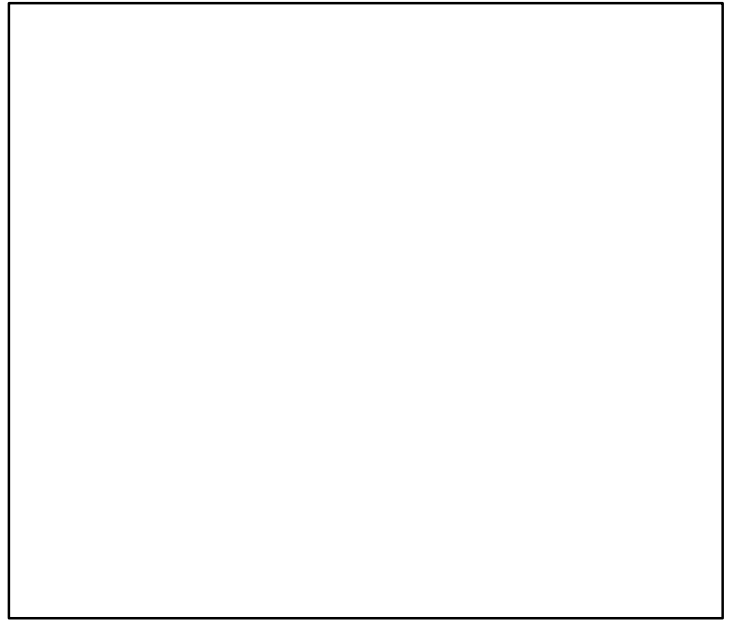
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	141
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

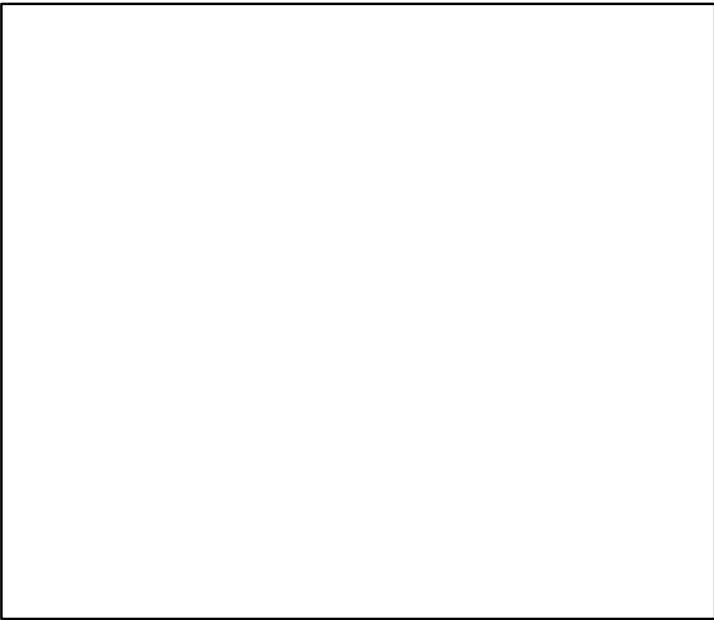
Kobe MSY*



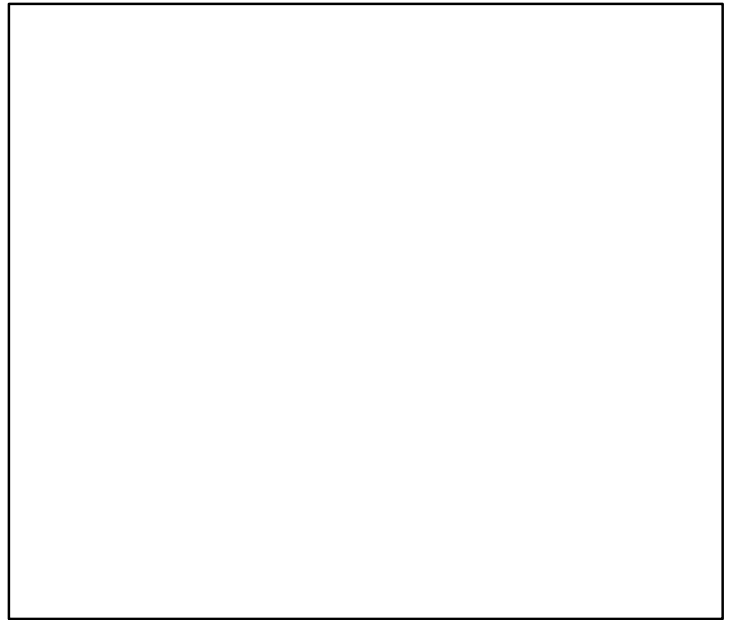
Kobe MGT*



Spawner Recruit*



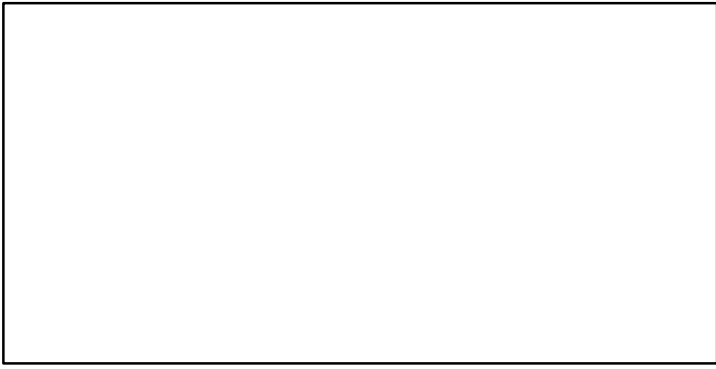
Production*



◆ Start Year ◆ End Year * No Data

Lane snapper Gulf of Mexico [LNSNAPGM]

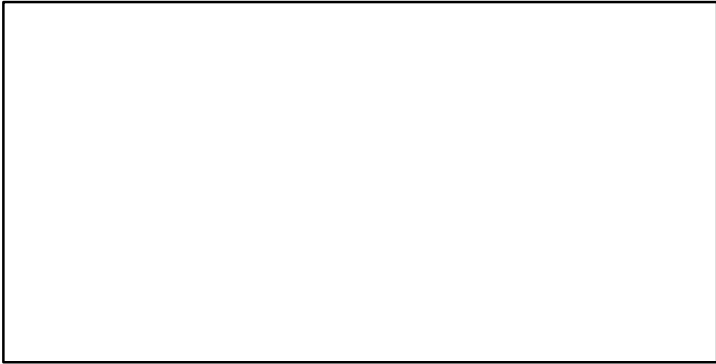
TB*



SSB*



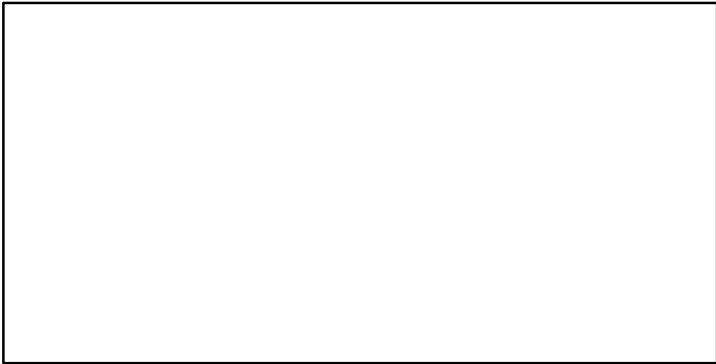
TN *



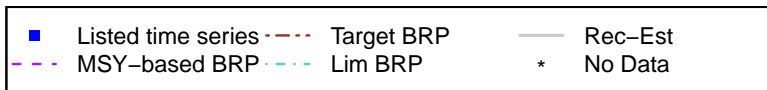
F*



ER*



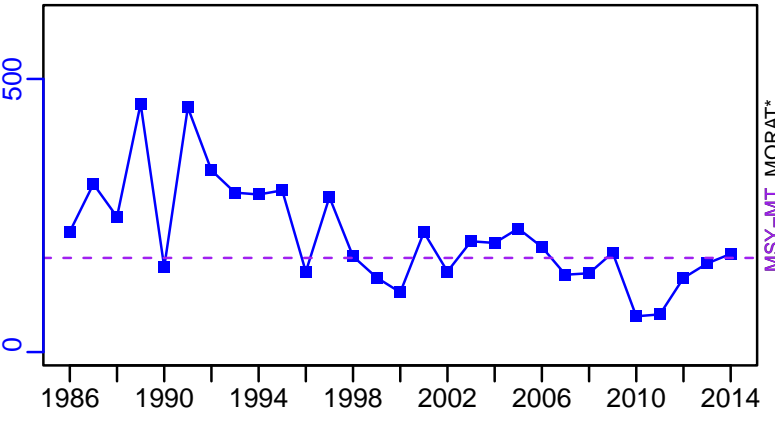
Recruits*



Lane snapper Gulf of Mexico [LNSNAPGM]

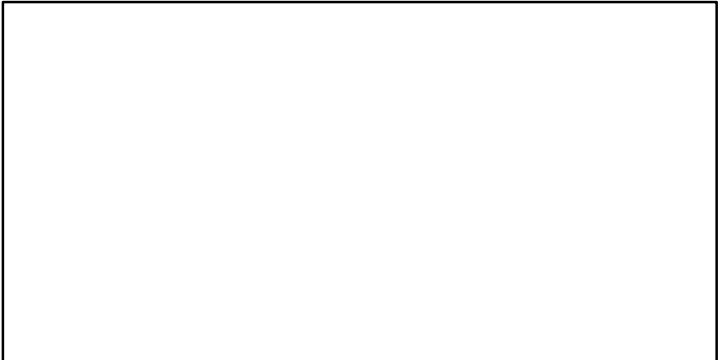
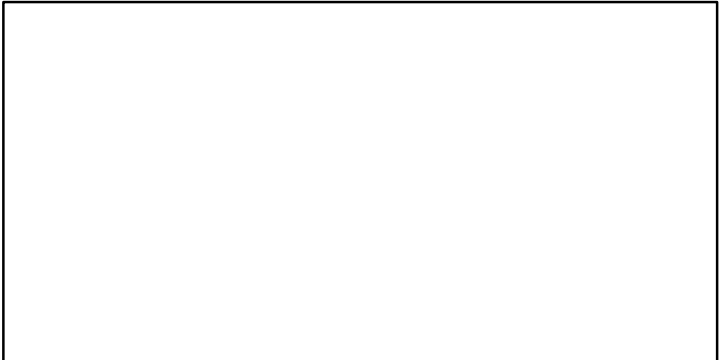
TC-MT, TL*, RecC* (1986-2014-SISIMP2021)

TAC*, Cpair*, Cadv*



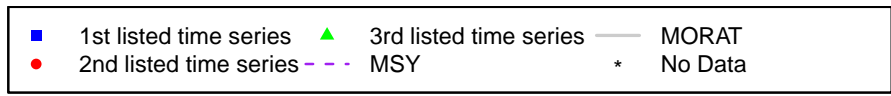
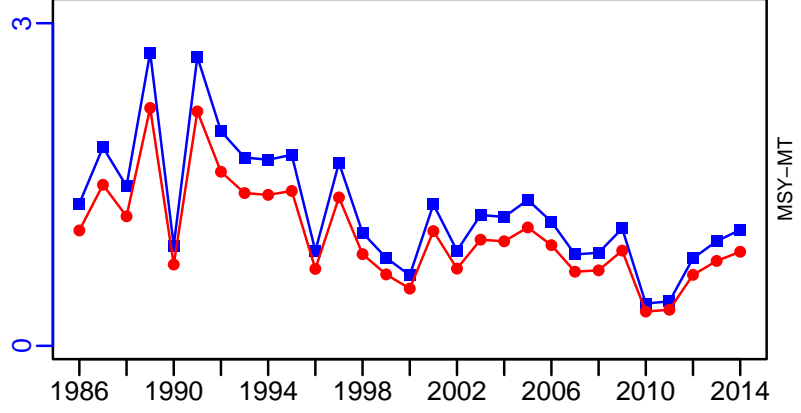
survB*

CPUE*



EFFORT*

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



Jackass morwong Eastern half of Southeast Australia [MORWONGESE]

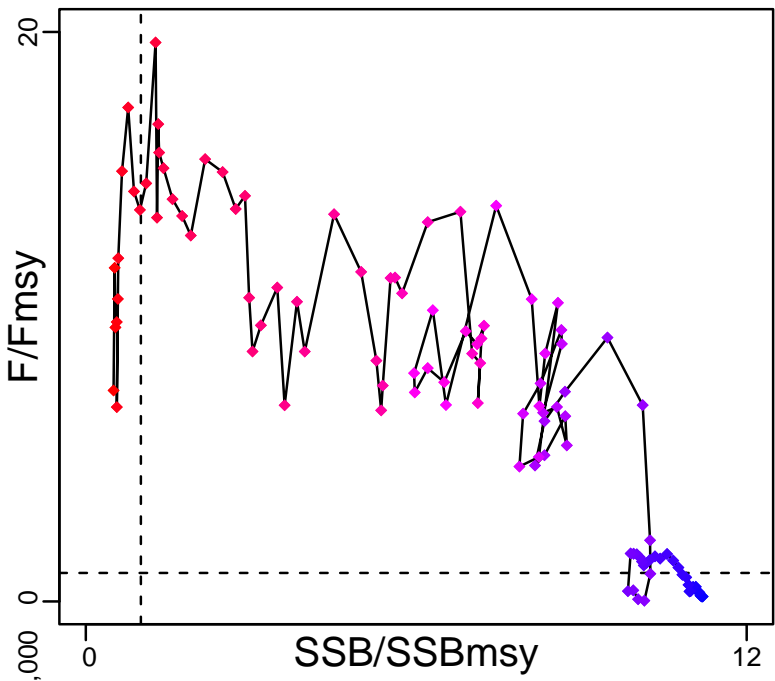
Metadata	
Scientific Name	Nemadactylus macropterus
Current Assess ID	CSIRO-MORWONGESE-1915-2020-MOESENER
Area	Eastern half of Southeast Australia
Management Authority	Australian Fisheries Management Authority, Australia national management
Assessor	Commonwealth Scientific and Industrial Research Organization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

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

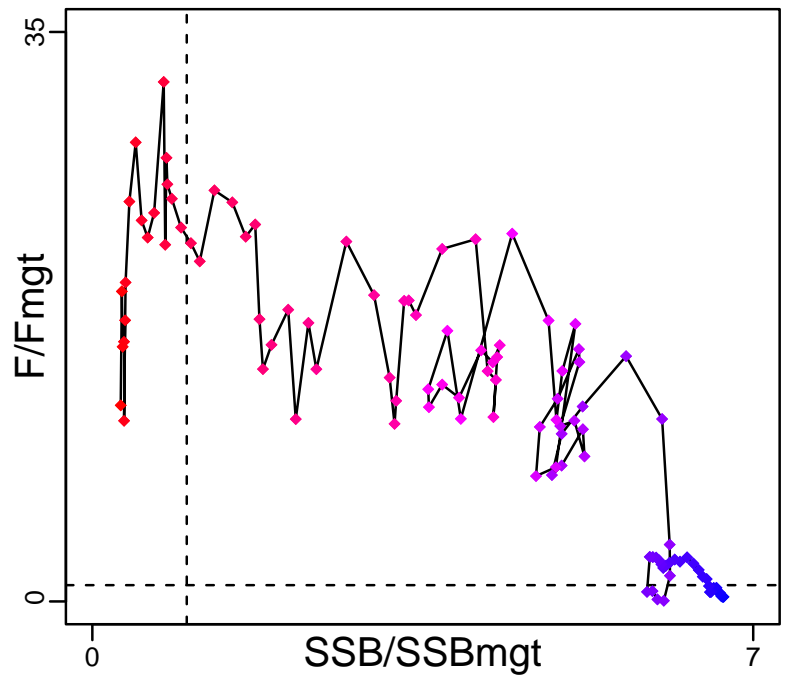
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	1528	-	-
SSB	SSB-MT	2020	1073	-	-
TN	-	-	-	-	-
R	R-E00	2020	9.61×10^{11}	-	-
F	F-1/yr	2020	0.95	-	-
ER	ER-ratio	2020	0.071	-	-
TC	TC-MT	2020	103		
TL	TL-MT	2017	139		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	0.504		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Jackass morwong Eastern half of Southeast Australia [MORWONGESE]

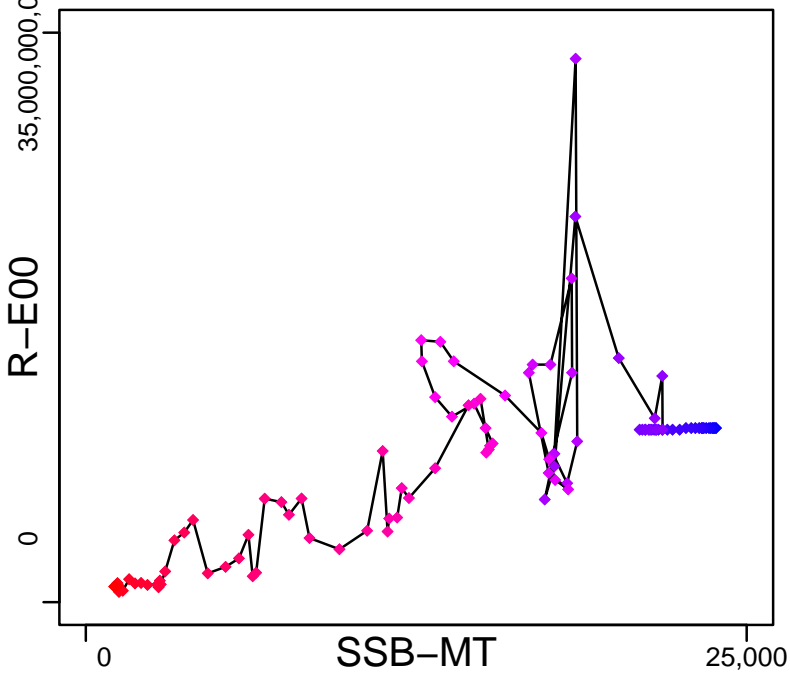
Kobe MSYpref (1915–2020–MOESENEDER)



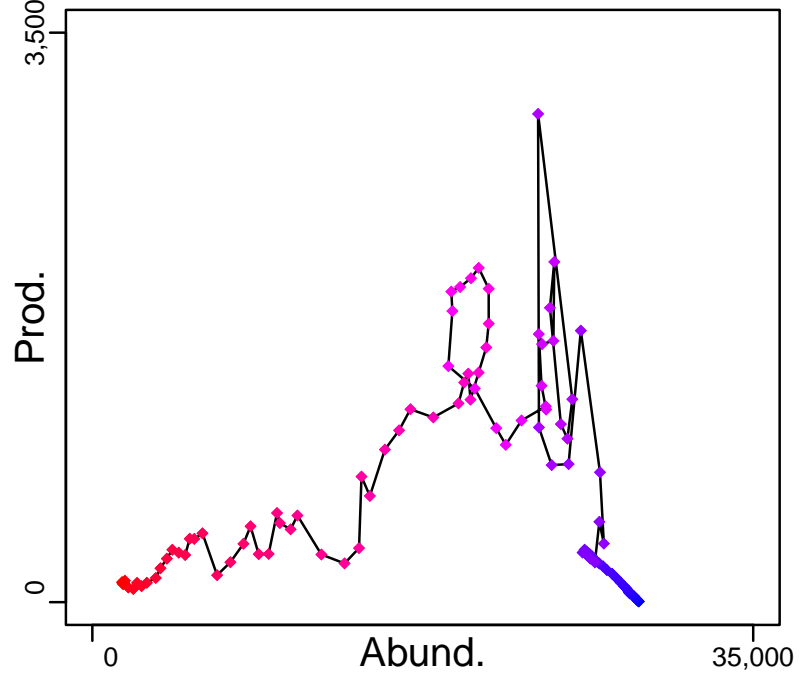
Kobe MGTpref (1915–2020–MOESENEDER)



Spawner Recruit (1915–2020–MOESENEDER)



Production (1915–2020–MOESENEDER)

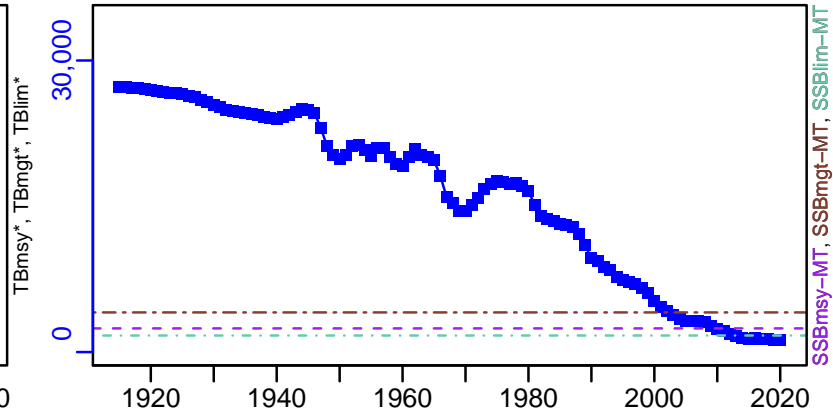
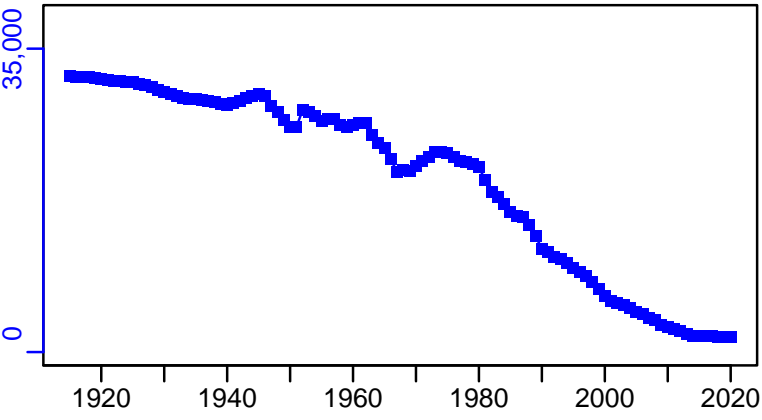


◆ Start Year ◆ End Year * No Data

Jackass morwong Eastern half of Southeast Australia [MORWONGESE]

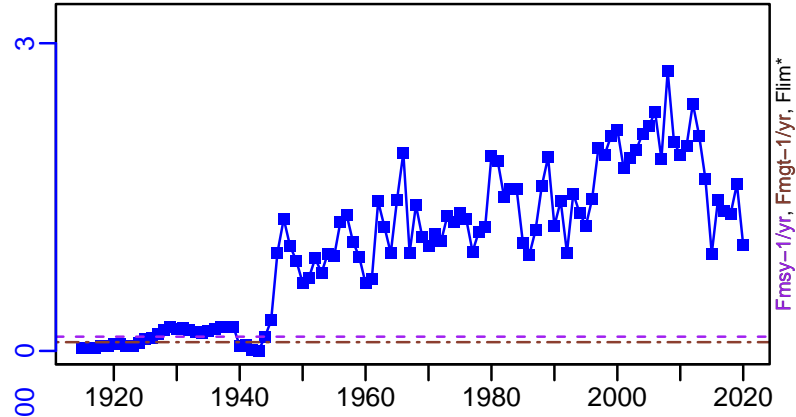
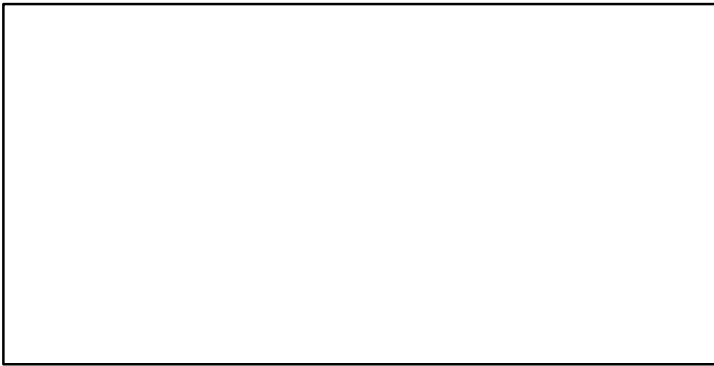
TB-MT (1915-2020-MOESENER)

SSB-MT (1915-2020-MOESENER)



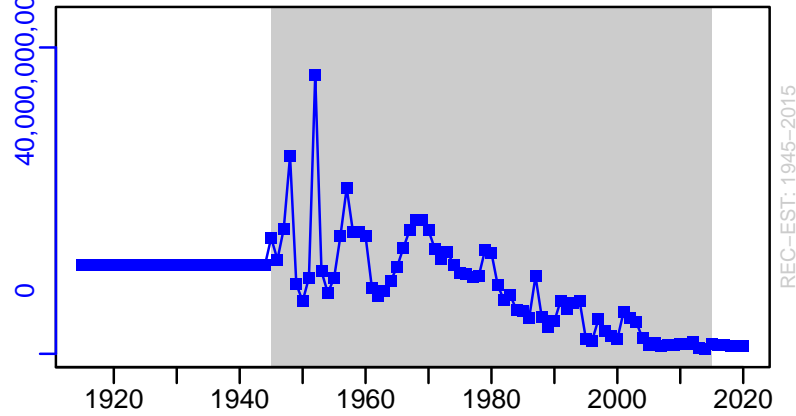
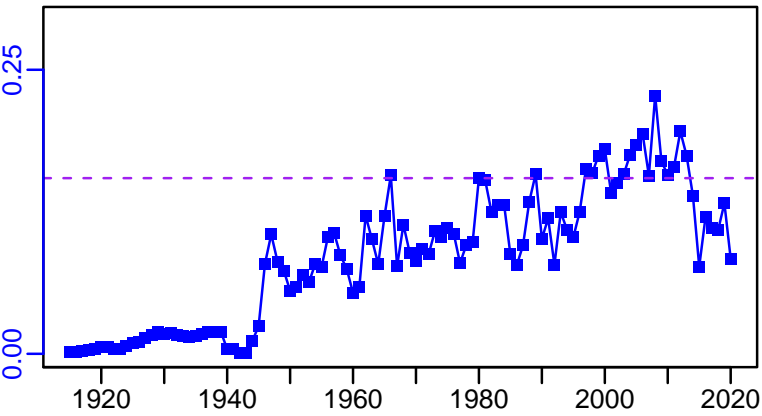
TN *

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



ER-ratio (1915-2020-MOESENER)

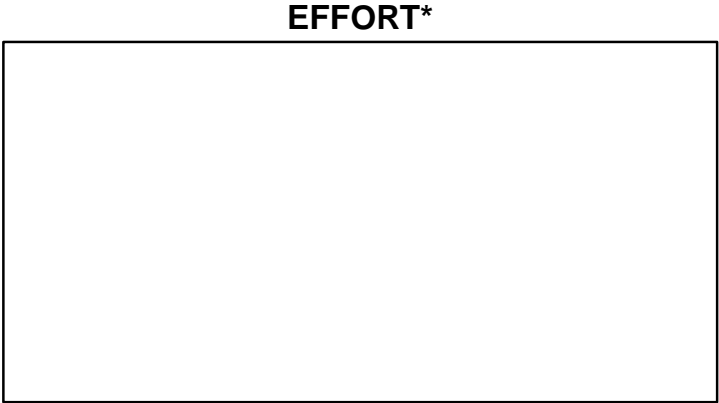
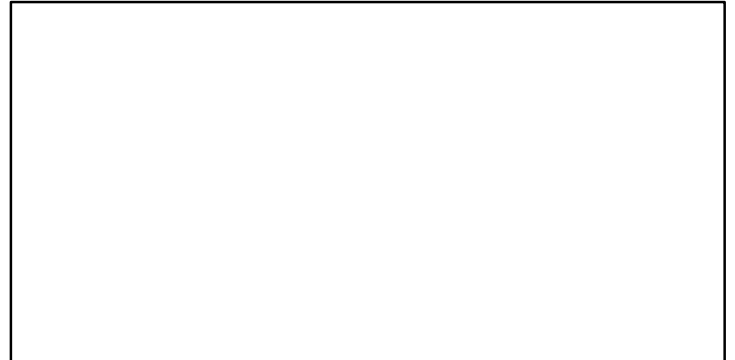
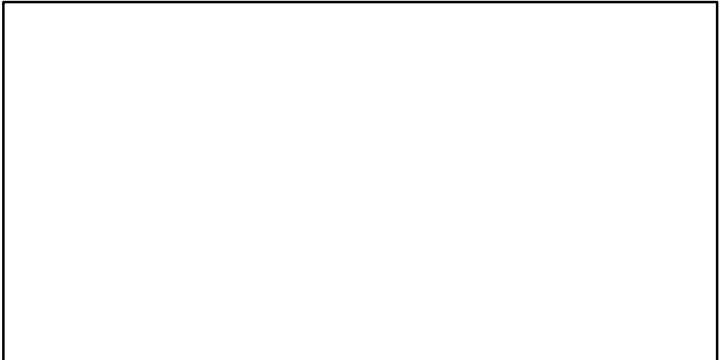
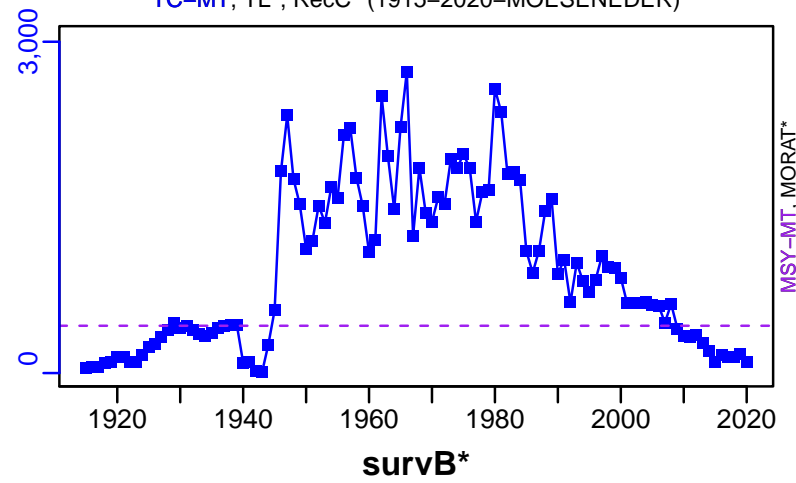
R-E00 (1915-2020-MOESENER)



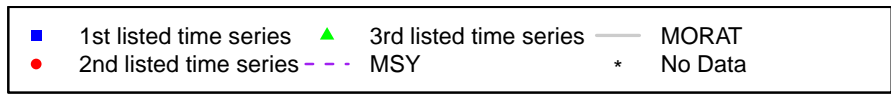
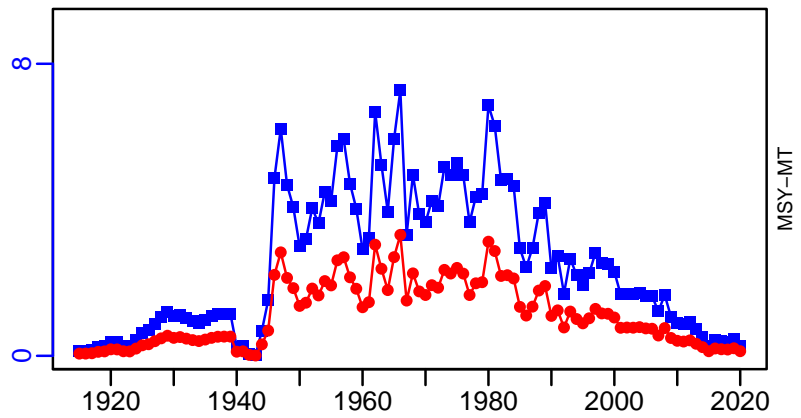
Jackass morwong Eastern half of Southeast Australia [MORWONGESE]

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

TAC*, Cpair*, Cadv*



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



Jackass morwong Western half of Southeast Australia [MORWONGWSE]

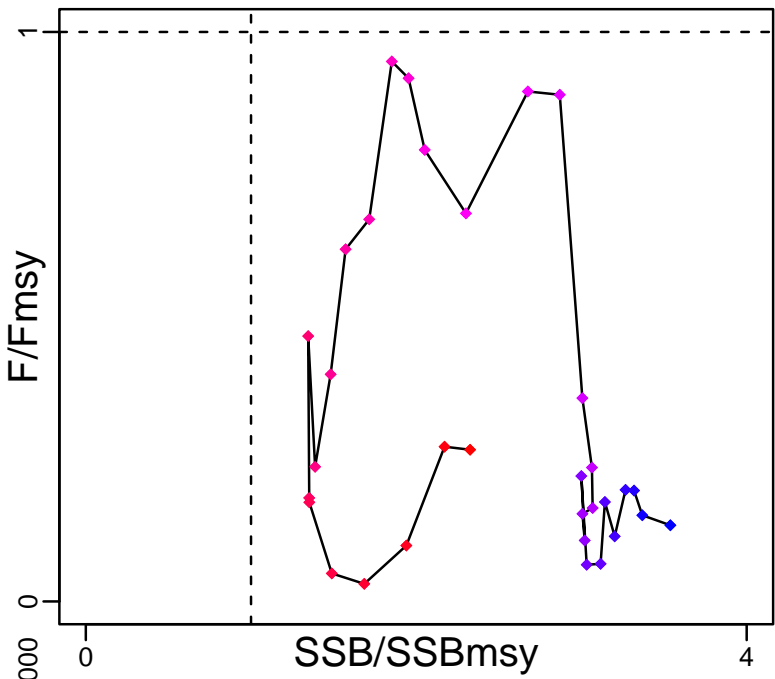
Metadata	
Scientific Name	Nemadactylus macropterus
Current Assess ID	CSIRO-MORWONGWSE-1986-2017-MOESENEREDER
Area	Western half of Southeast Australia
Management Authority	Australian Fisheries Management Authority, Australia national management
Assessor	Commonwealth Scientific and Industrial Research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

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

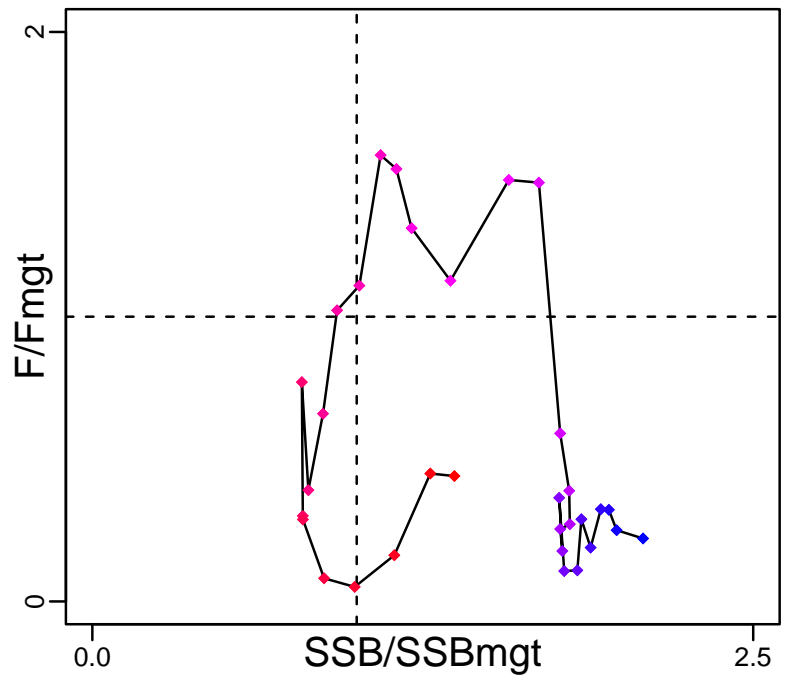
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	2338	-	-
SSB	SSB-MT	2017	1803	Females	-
TN	-	-	-	-	-
R	R-E00	2017	1.14×10^{12}	-	-
F	F-1/yr	2017	0.04	-	-
ER	ER-ratio	2017	0.039	-	-
TC	-	-	-	-	-
TL	TL-MT	2017	87	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.326	-	-
F/Fmsy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

Jackass morwong Western half of Southeast Australia [MORWONGWSE]

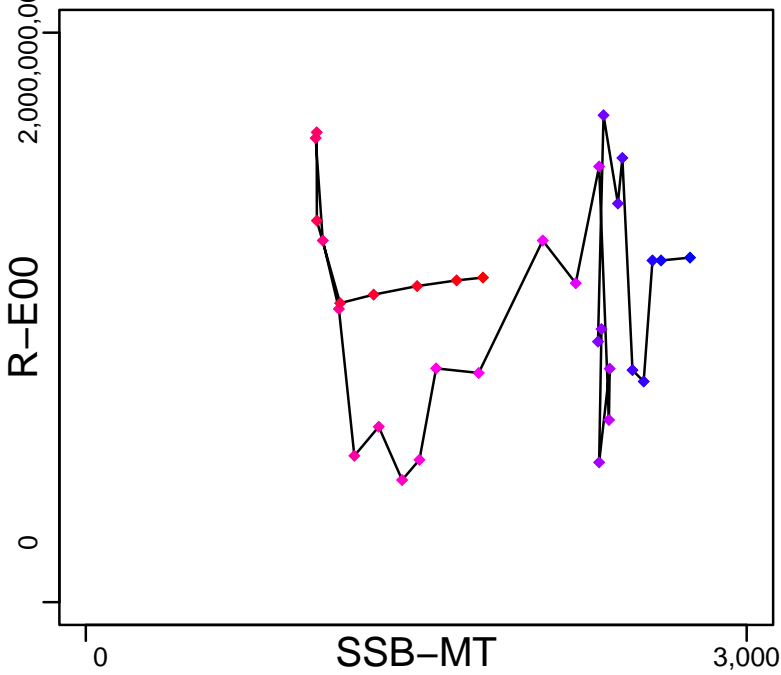
Kobe MSYpref (1986–2017–MOESENEDER)



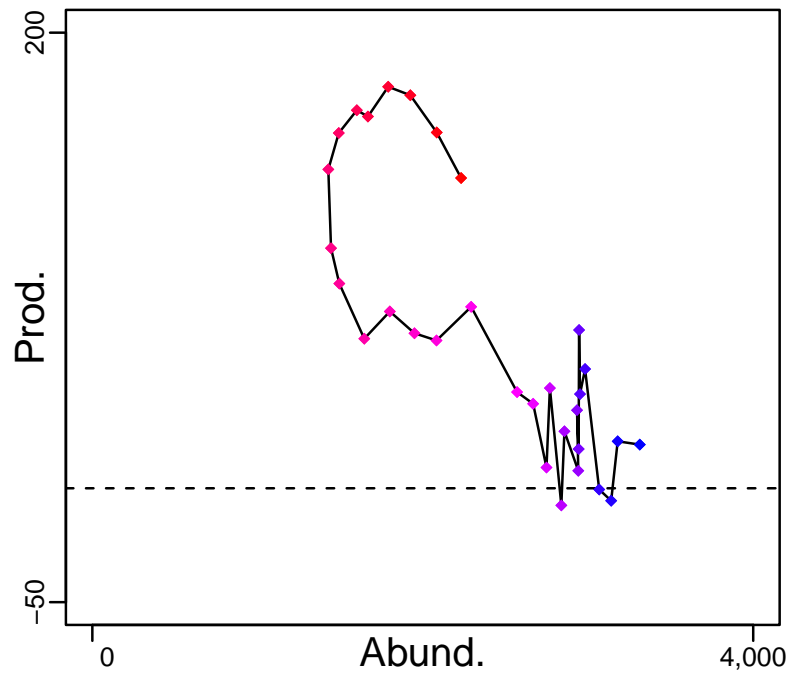
Kobe MGTpref (1986–2017–MOESENEDER)



Spawner Recruit (1986–2017–MOESENEDER)



Production (1986–2017–MOESENEDER)

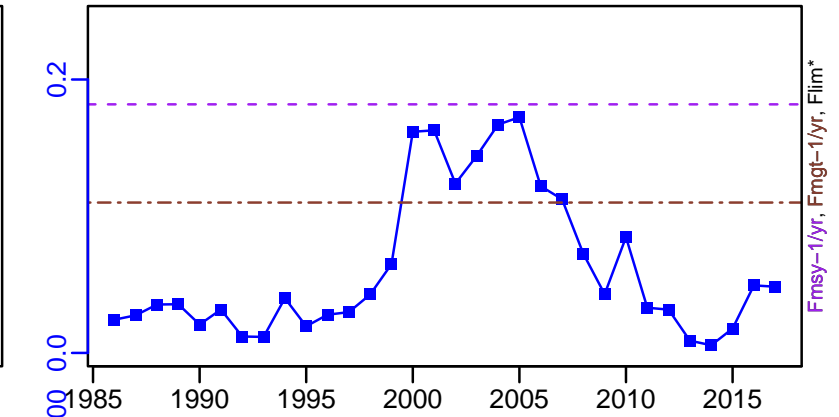
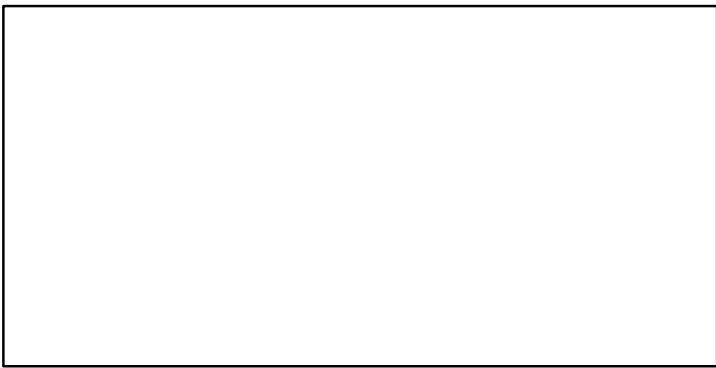
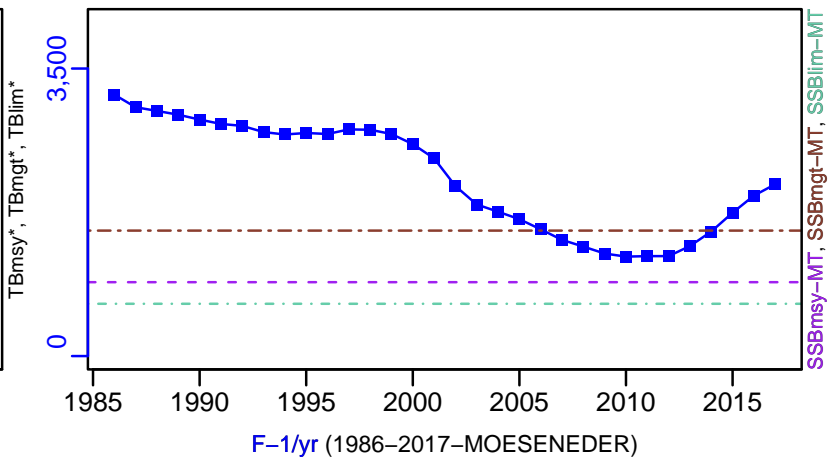
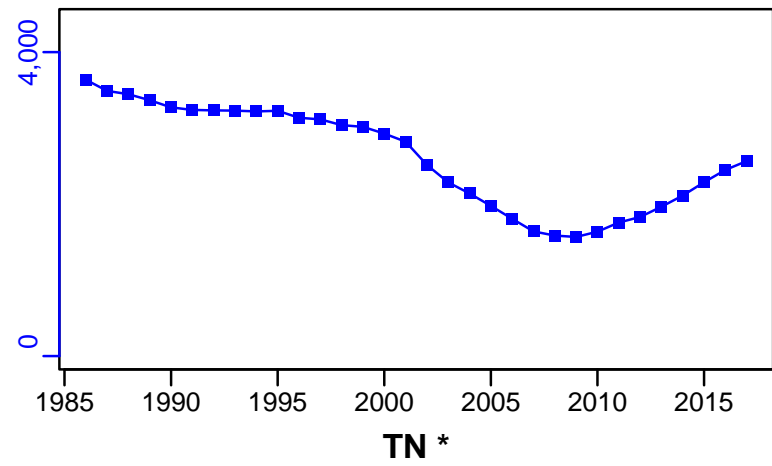


◆ Start Year ◆ End Year * No Data

Jackass morwong Western half of Southeast Australia [MORWONGWSE]

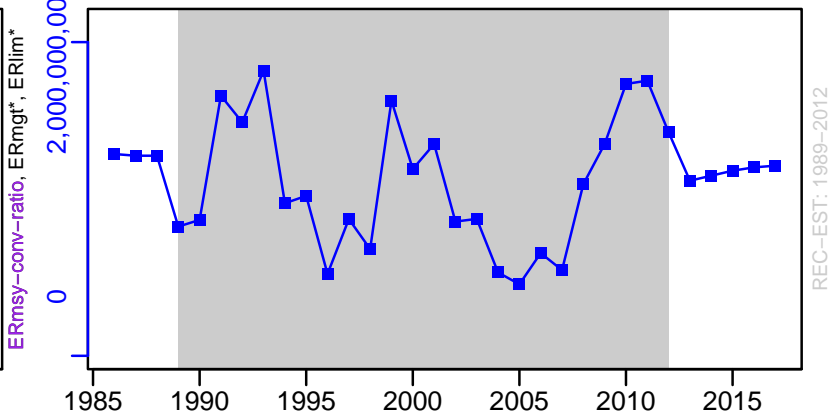
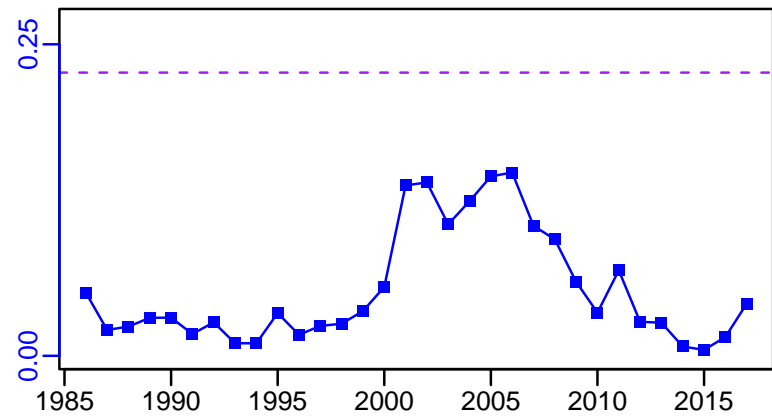
TB-MT (1986-2017-MOESENER)

SSB-MT (1986-2017-MOESENER)



ER-ratio (1986-2017-MOESENER)

R-E00 (1986-2017-MOESENER)

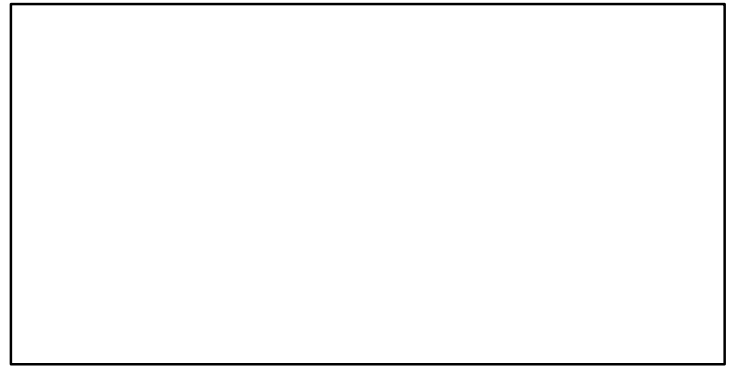
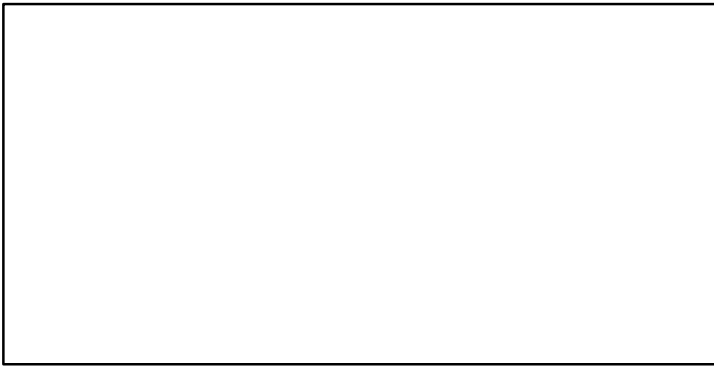
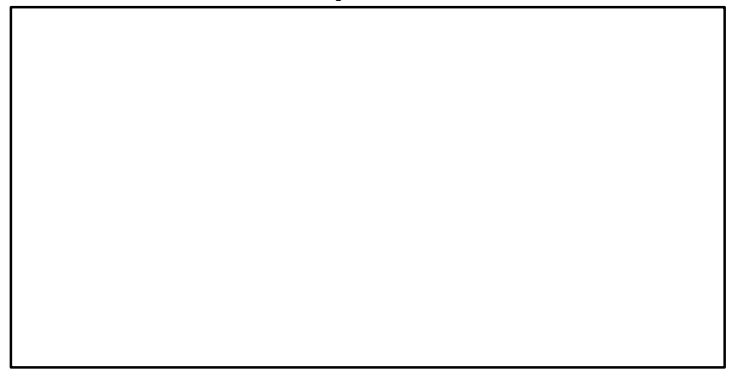
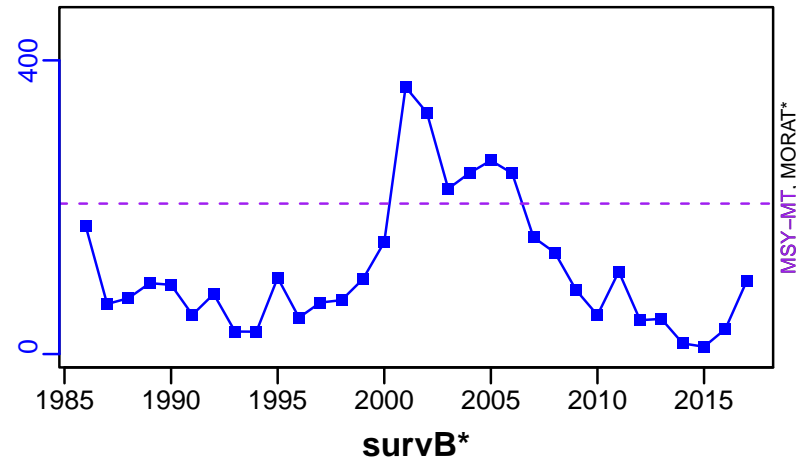


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	- · - Lim BRP	* No Data

Jackass morwong Western half of Southeast Australia [MORWONGWSE]

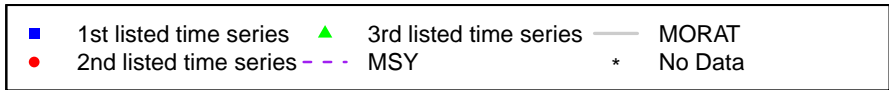
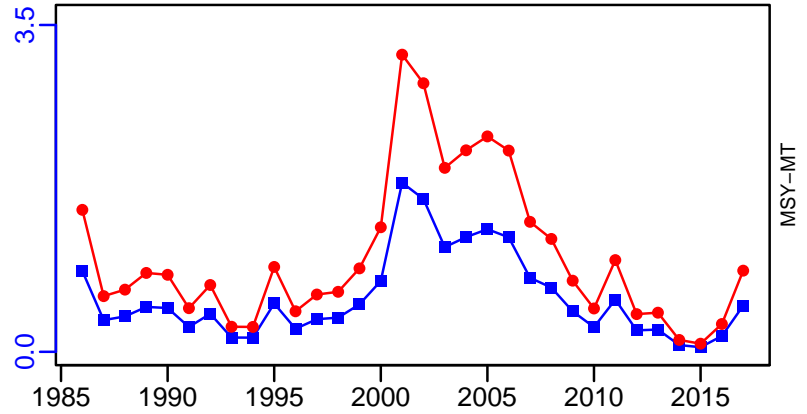
TL-MT, TC*, RecC* (1986-2017-MOESENER)

TAC*, Cpair*, Cadv*



EFFORT*

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



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

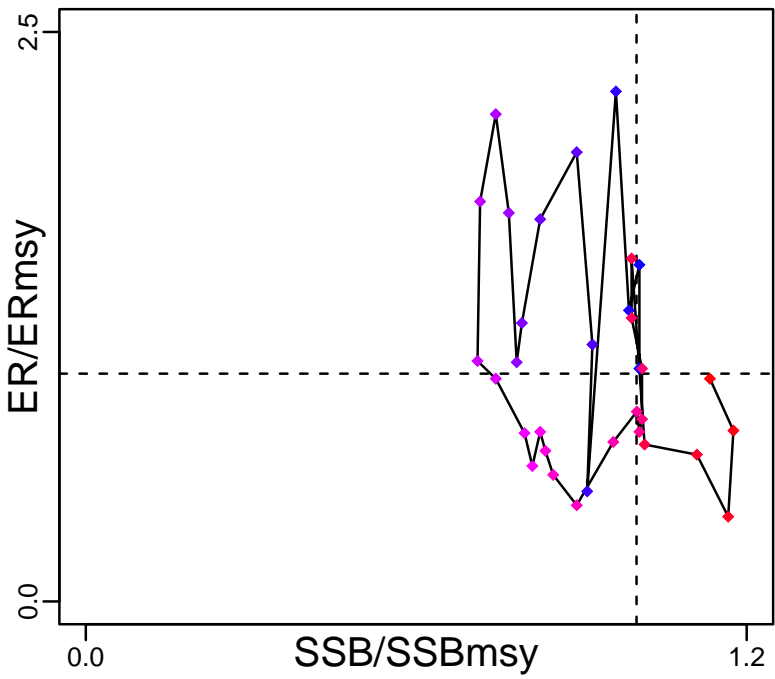
Metadata	
Scientific Name	Lutjanus analis
Current Assess ID	SEFSC-MUTSNAPSATLCGM-1981-2013-SISIMP2016
Area	Southern Atlantic coast and Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2006, 2013

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

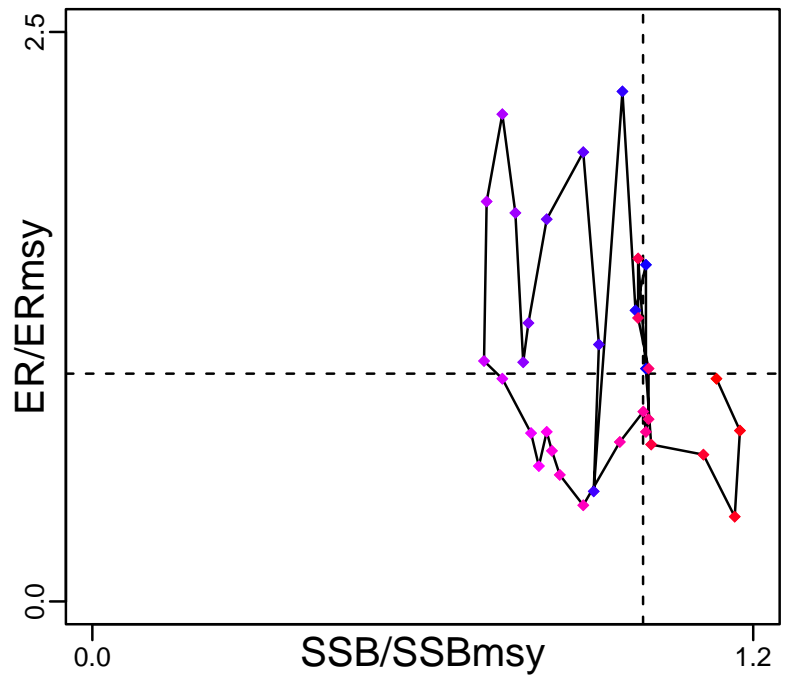
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	5210	-	-
SSB	SSB-MT	2013	2390	Females	4+
TN	-	-	-	-	-
R	R-E00	2006	1,580,000	-	-
F	F-1/yr	2006	0.18	-	-
ER	ER-ratio	2013	0.176	-	3
TC	TC-MT	2013	404		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	2.266		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013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

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

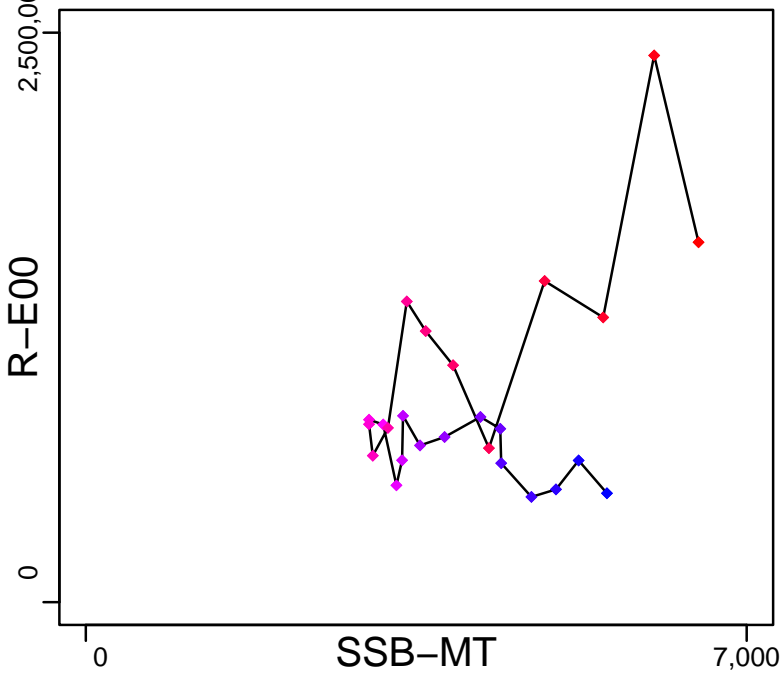
Kobe MSYpref (1981–2013–SISIMP2016)



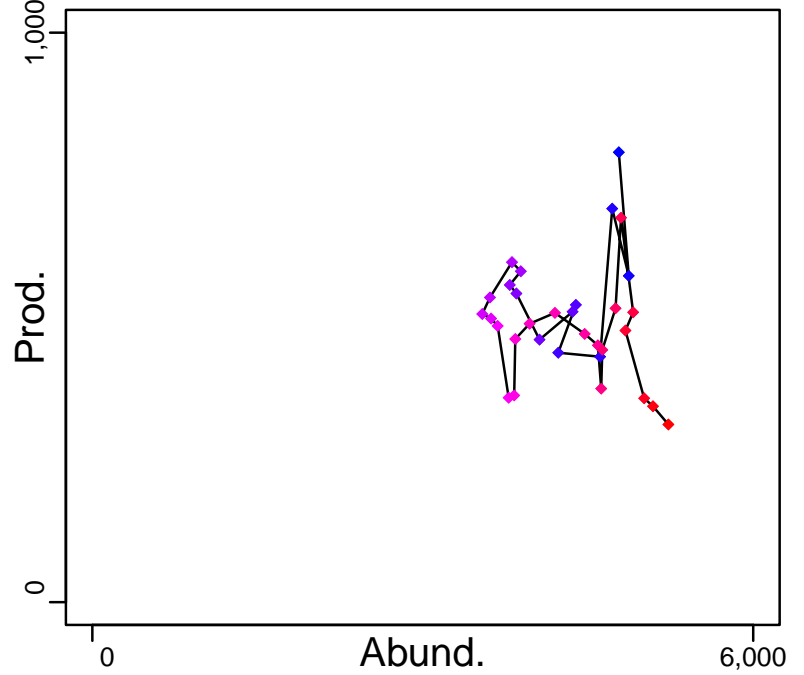
Kobe MGTpref (1981–2013–SISIMP2016)



Spawner Recruit (1981–2006–JENSEN)



Production (1981–2013–SISIMP2016)

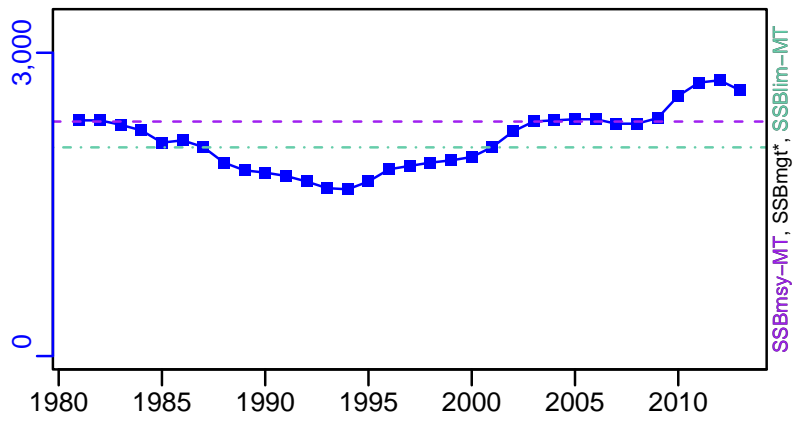
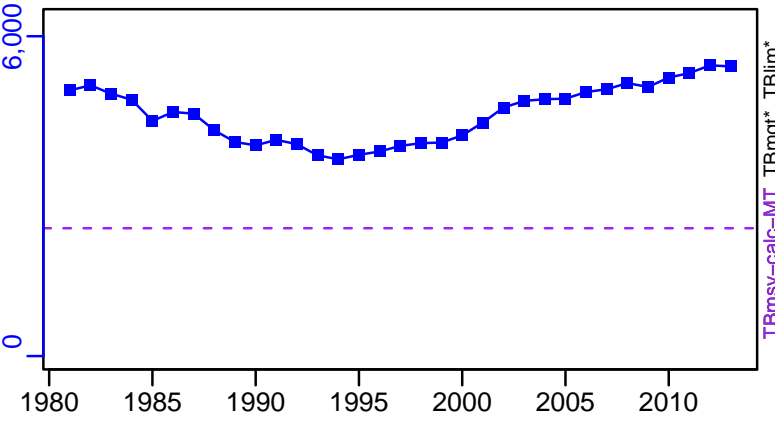


◆ Start Year ◆ End Year * No Data

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

TB-MT (1981-2013-SISIMP2016)

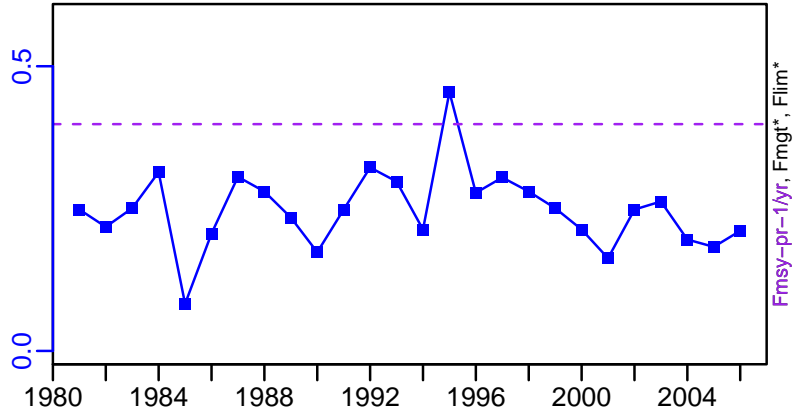
SSB-MT (1981-2013-SISIMP2016)



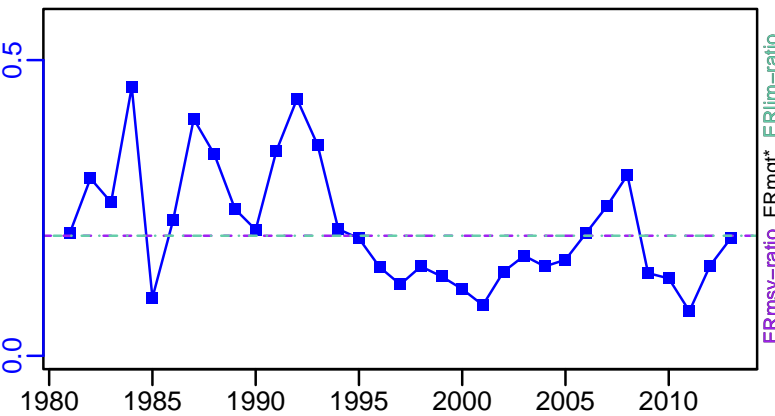
TN *



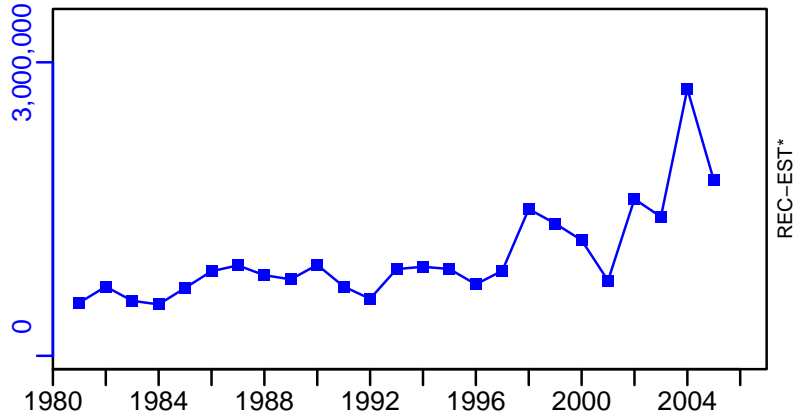
F-1/yr (1981-2006-JENSEN)



ER-ratio (1981-2013-SISIMP2016)



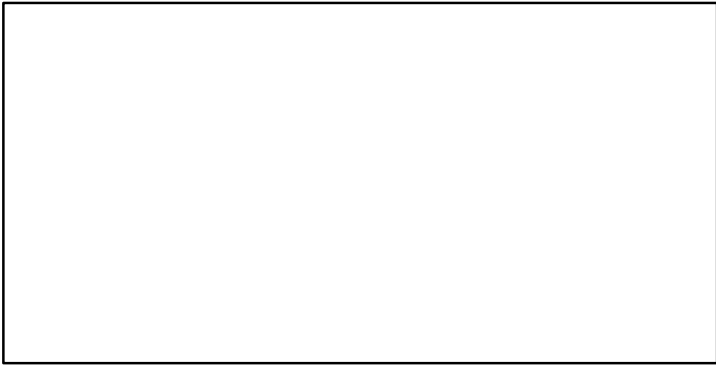
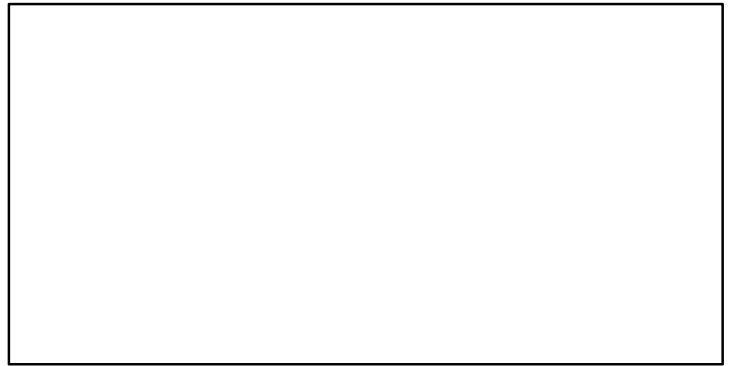
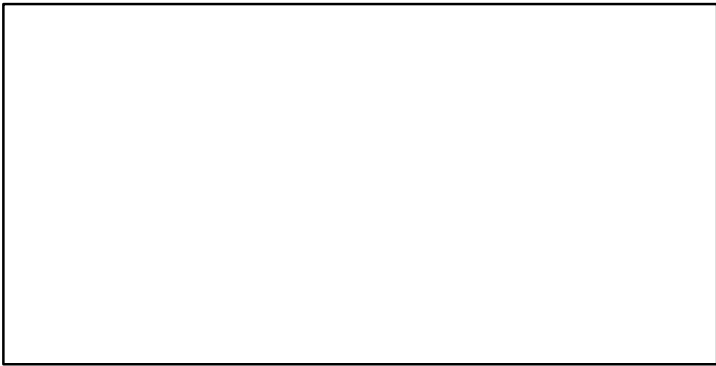
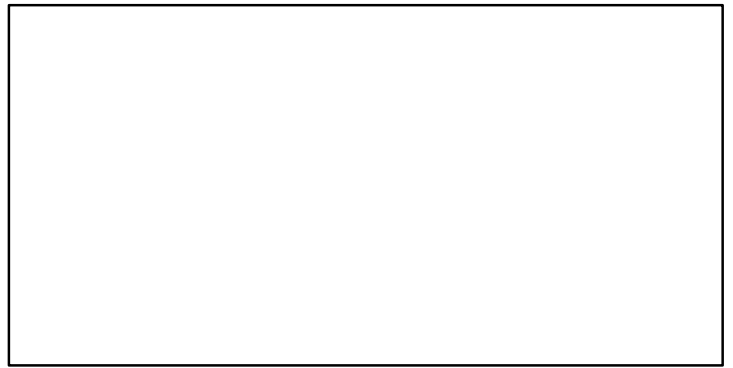
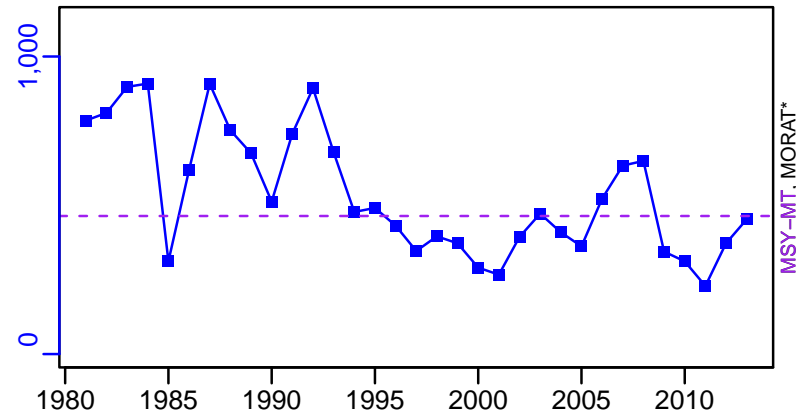
R-E00 (1981-2006-JENSEN)



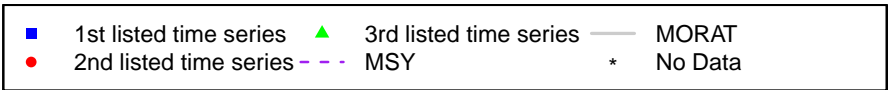
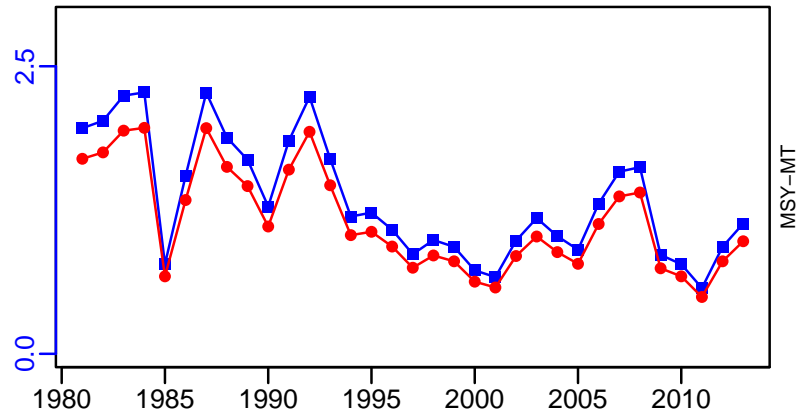
Mutton snapper Southern Atlantic coast and Gulf of Mexico [MUTSNAPSATLCGM]

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

TAC*, Cpair*, Cadv*



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



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

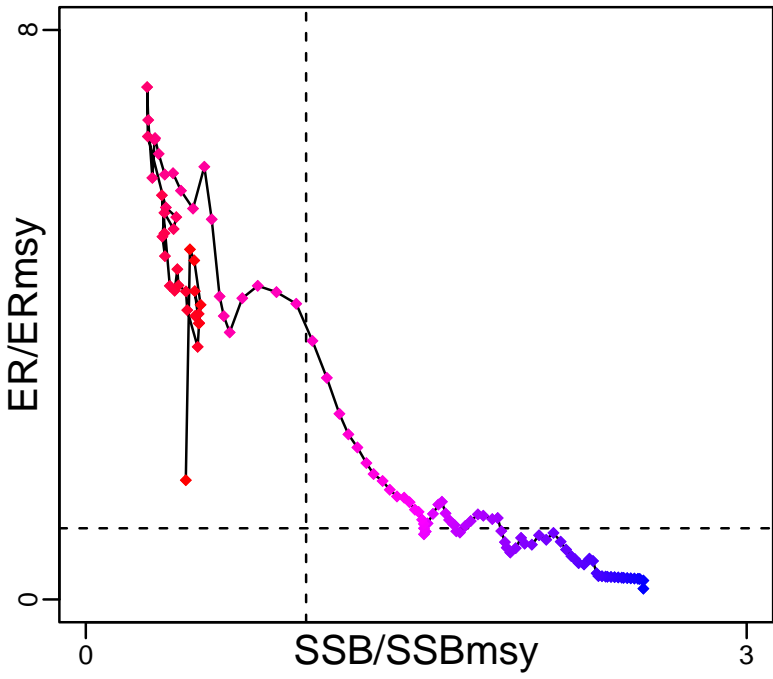
Metadata	
Scientific Name	Chrysophrys auratus
Current Assess ID	NIWA-NZSNAPNZ1BOP-HAGU-1899-2013-FU
Area	New Zealand SNA 1 Bay of Plenty and Hauraki Gulf
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in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

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

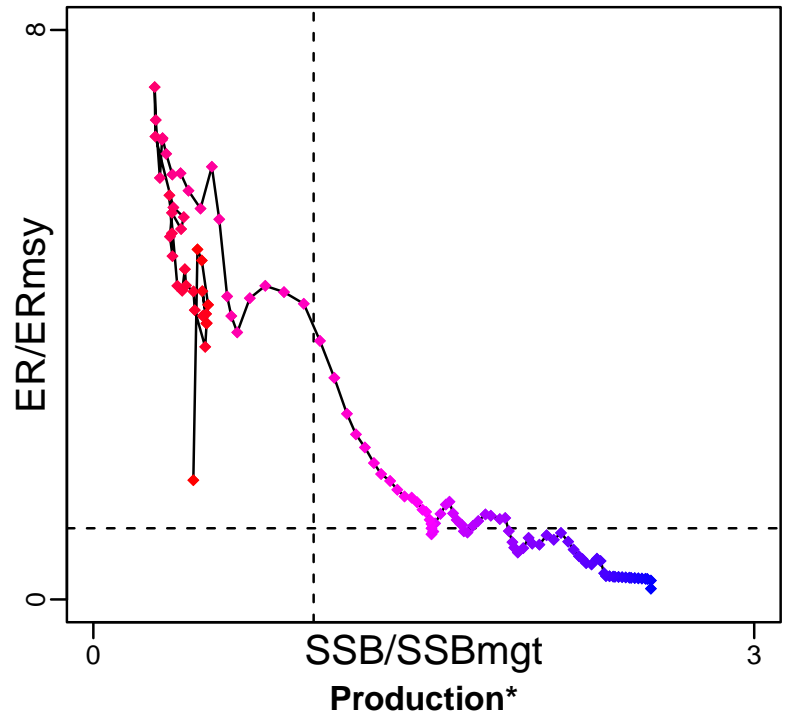
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2013	55,600	-	4 to 20
TN	-	-	-	-	-
R	R-E00	2013	1.4×10^7	Both	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2300	-	-
TL	-	-	-	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.454	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	-	-	-	-	-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

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

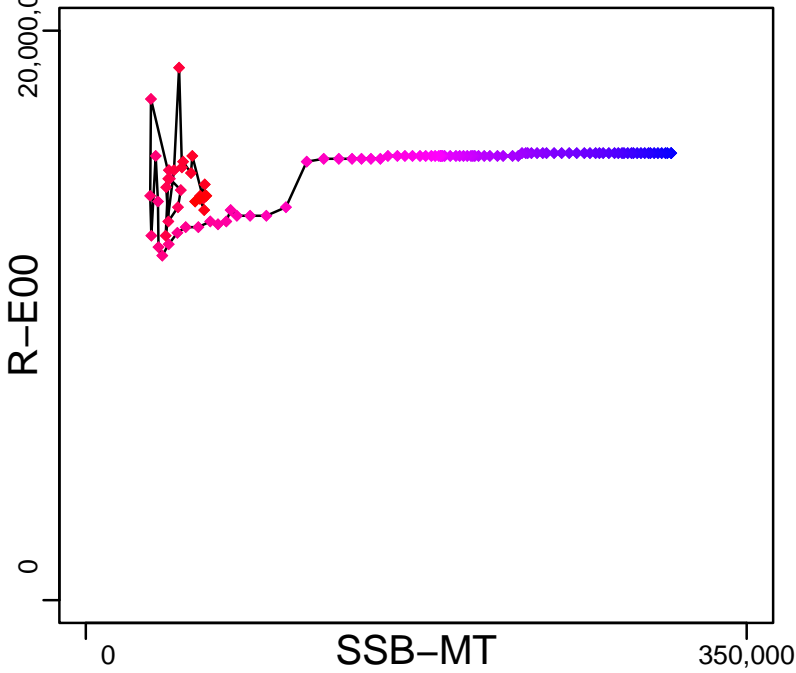
Kobe MSYpref (1899-2013-FU)



Kobe MGTpref (1899-2013-FU)



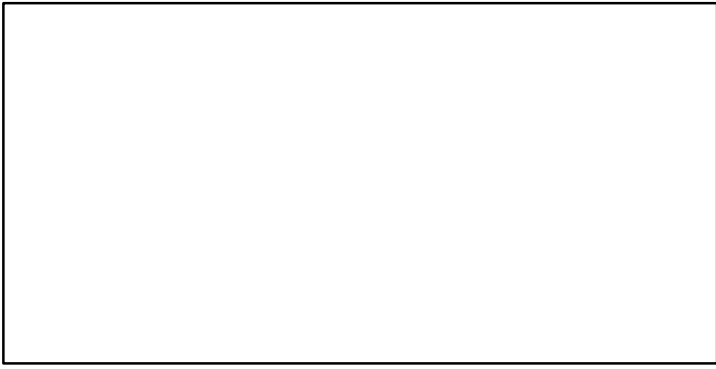
Spawner Recruit (1899-2013-FU)



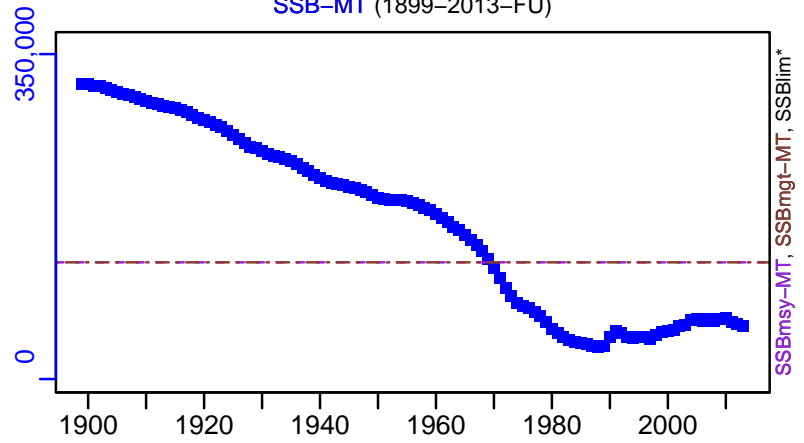
◆ Start Year ◆ End Year * No Data

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

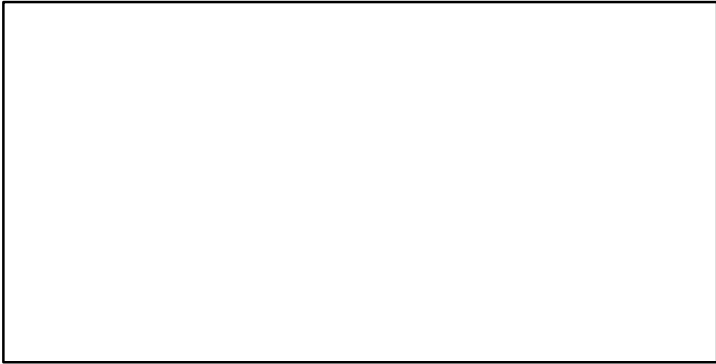
TB*



SSB-MT (1899-2013-FU)



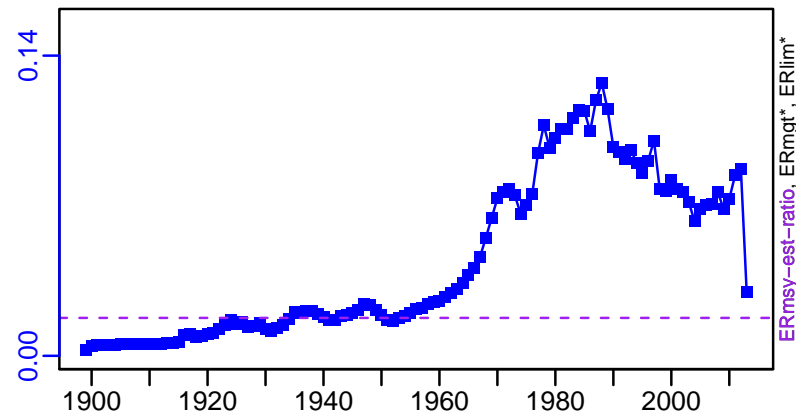
TN *



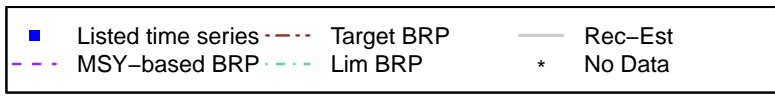
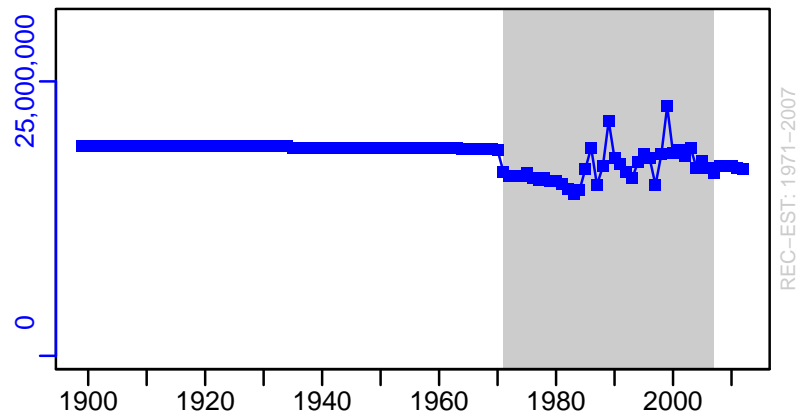
F*



ER-calc-ratio (1899-2013-FU)



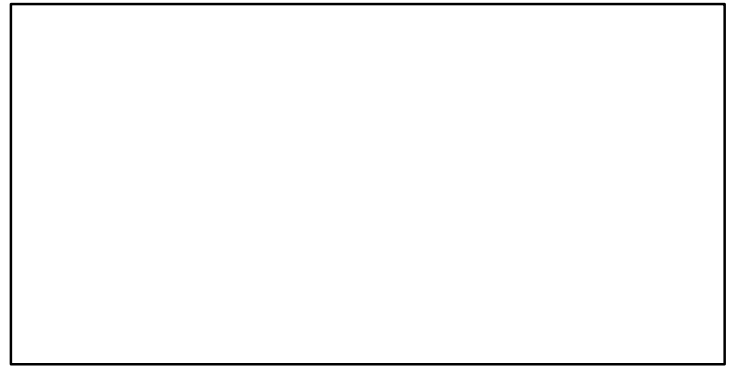
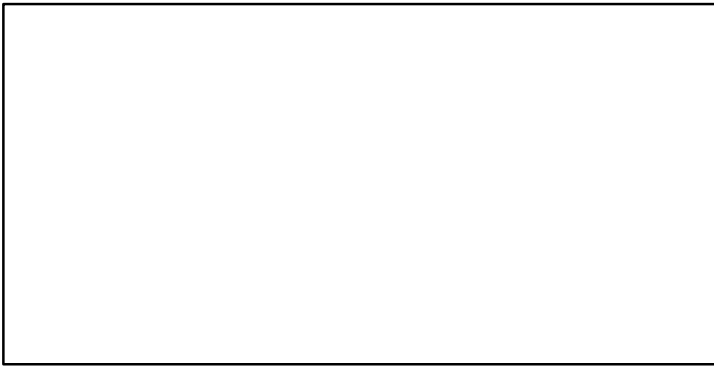
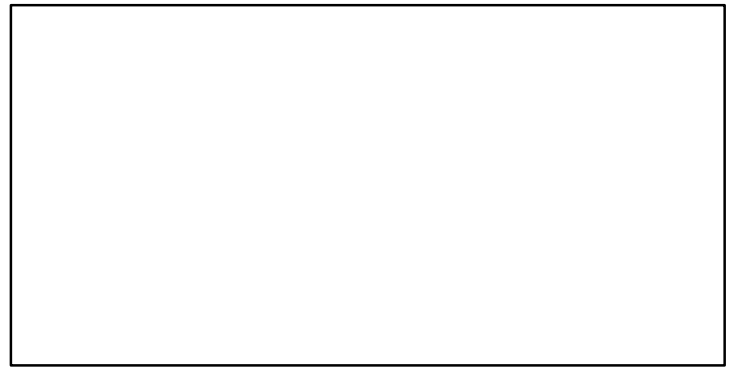
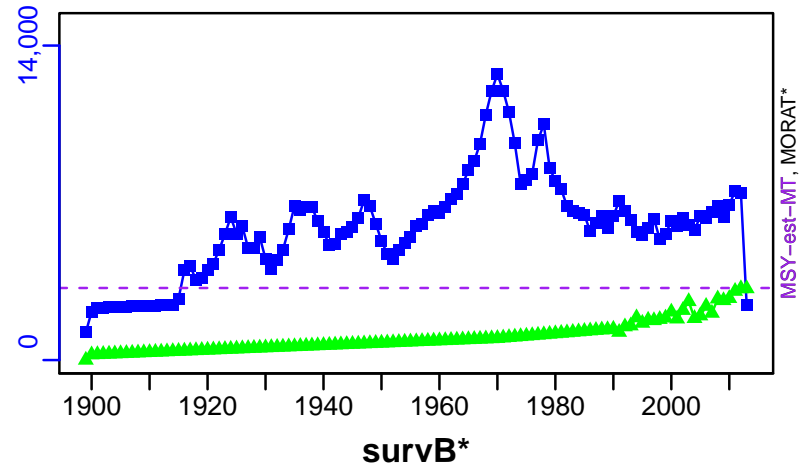
R-E00 (1899-2013-FU)



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

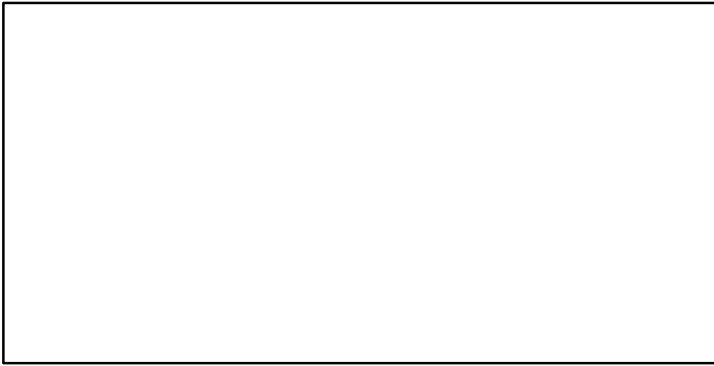
TC-MT, TL*, RecC-MT (1899-2013-FU)

TAC*, Cpair*, Cadv*

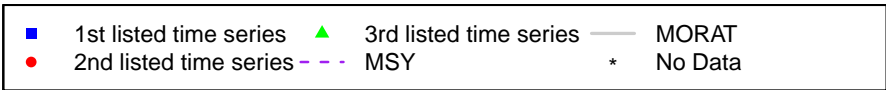
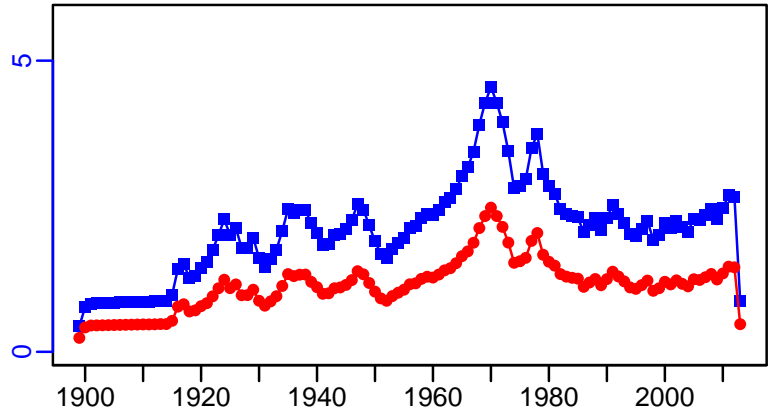


CPUE*

EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1899-2013-FU)



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

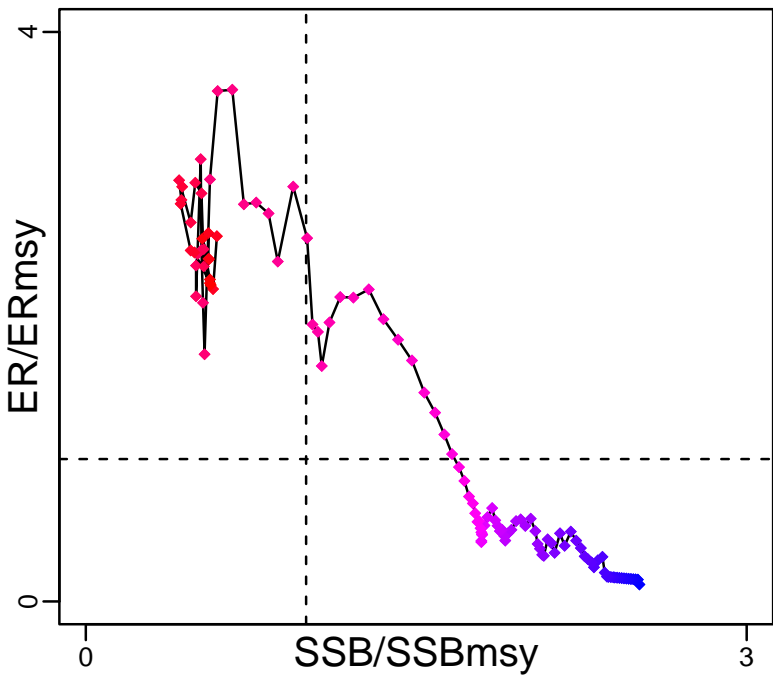
Metadata	
Scientific Name	Chrysophrys auratus
Current Assess ID	NIWA-NZSNAPNZ1ENLD-1899-2013-FU
Area	New Zealand SNA 1 east Northland
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	28,570
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	28,570
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2013	71,425
MSY	-	-	-
M	M-1/yr	2013	0.075
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

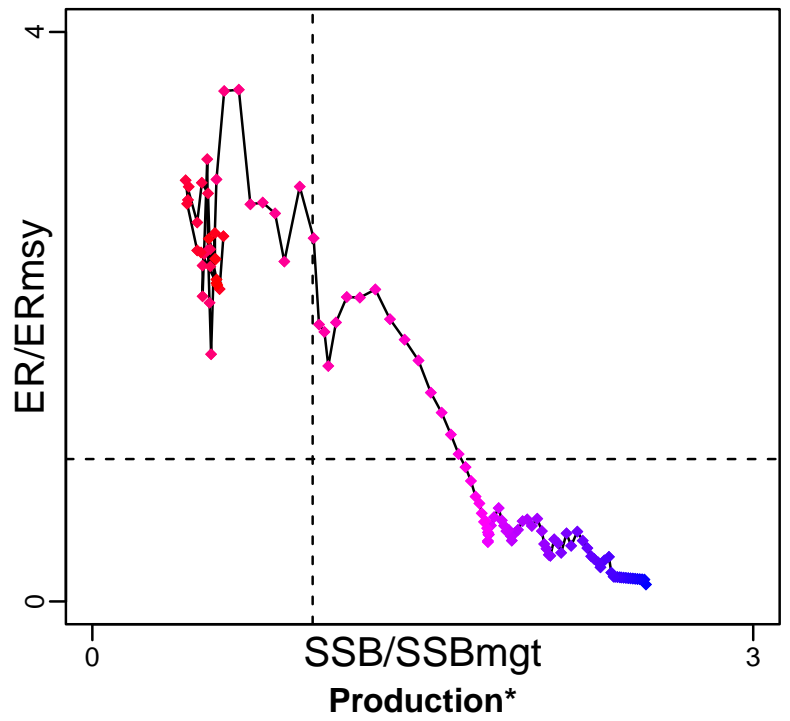
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2013	16,200	-	4 to 20
TN	-	-	-	-	-
R	R-E00	2013	3,730,000	Both	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	1750		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.567		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	0.567		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

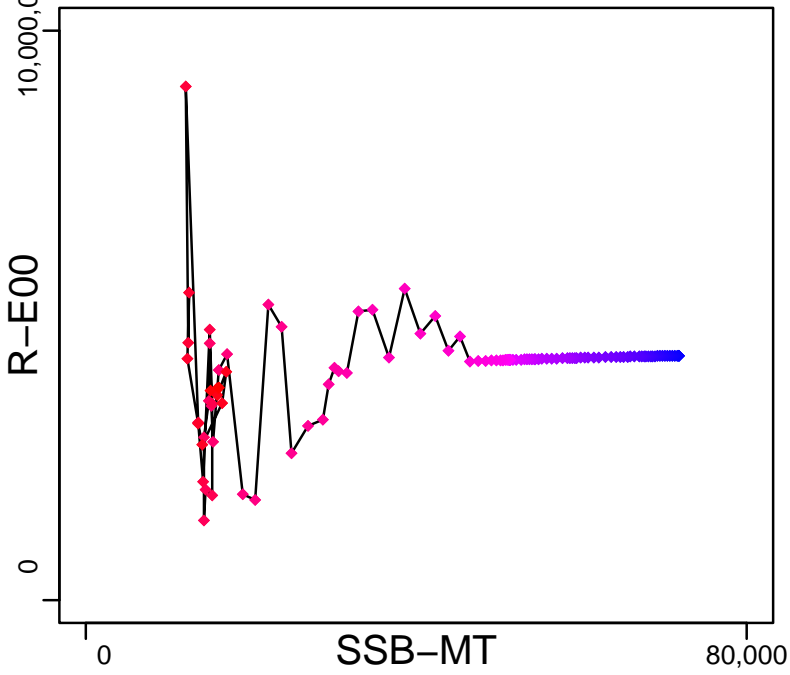
Kobe MSYpref (1899–2013–FU)



Kobe MGTpref (1899–2013–FU)



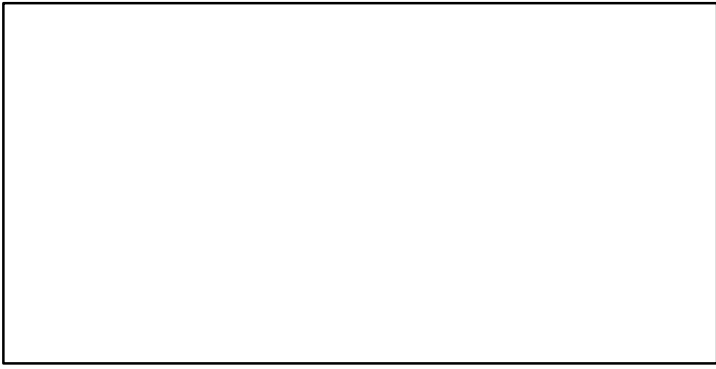
Spawner Recruit (1899–2013–FU)



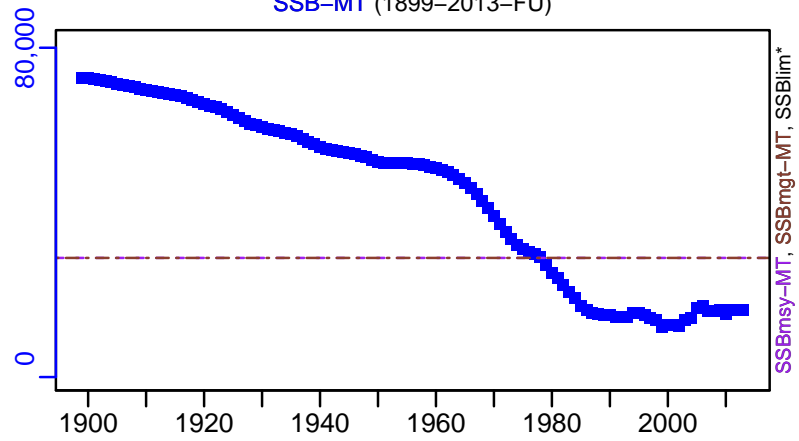
◆ Start Year ◆ End Year * No Data

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

TB*



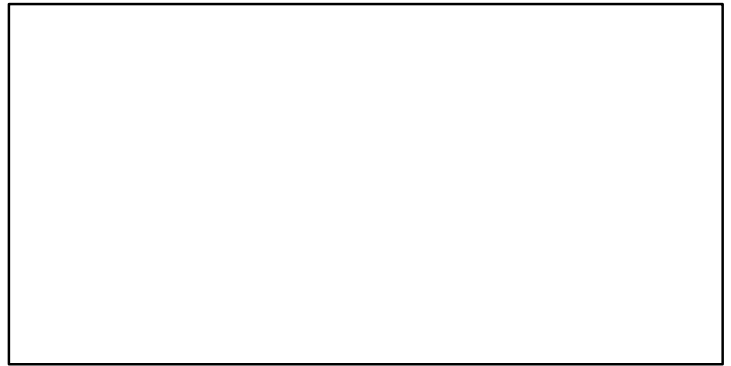
SSB-MT (1899-2013-FU)



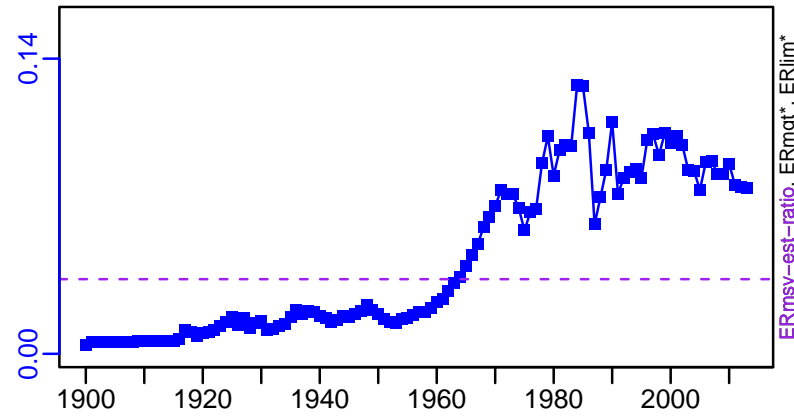
TN *



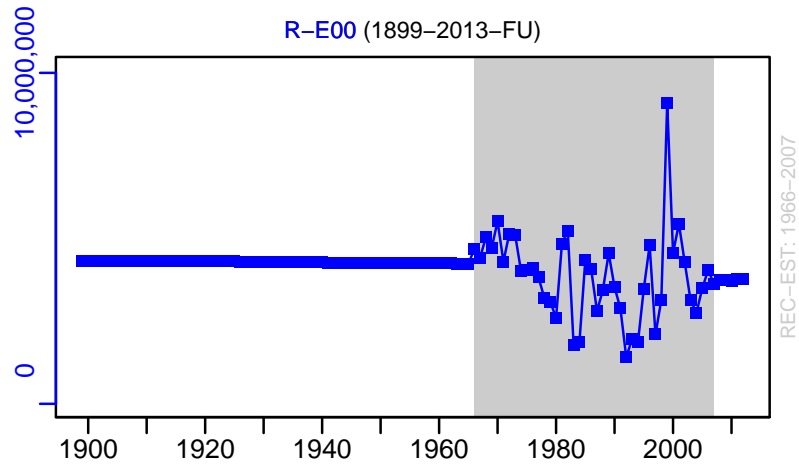
F*



ER-calc-ratio (1899-2013-FU)



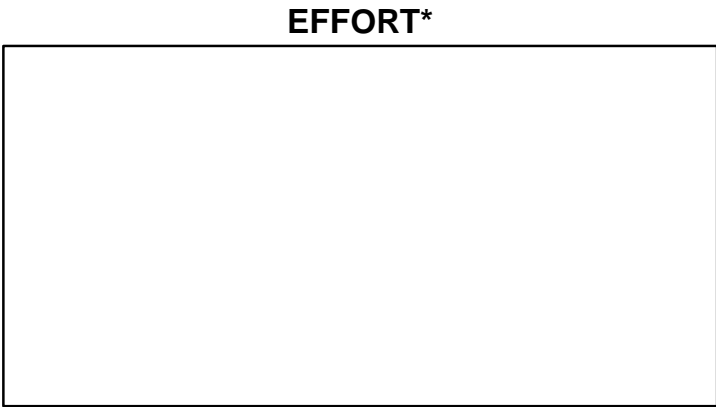
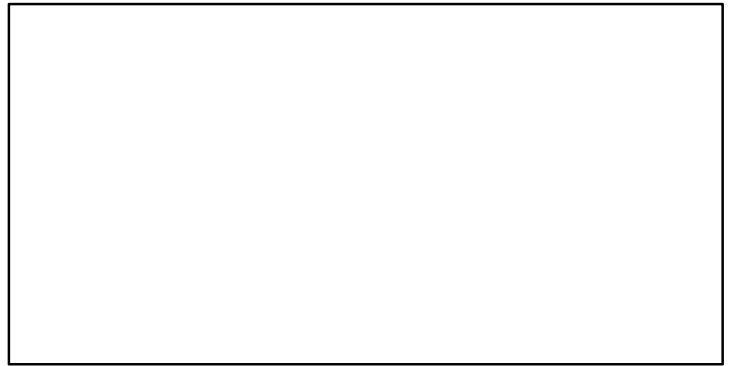
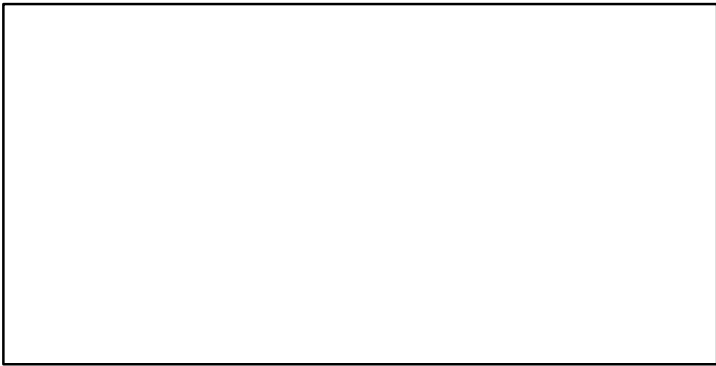
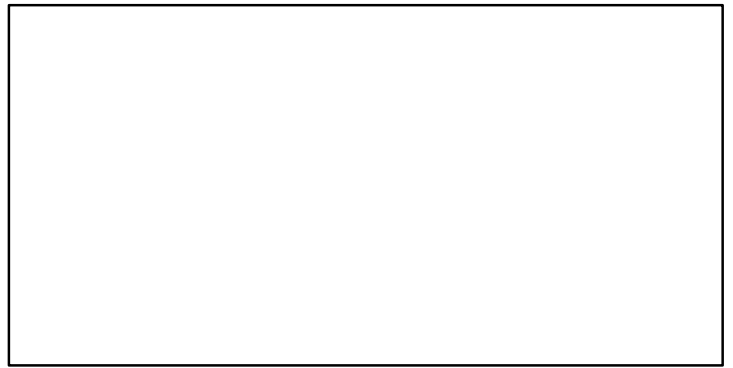
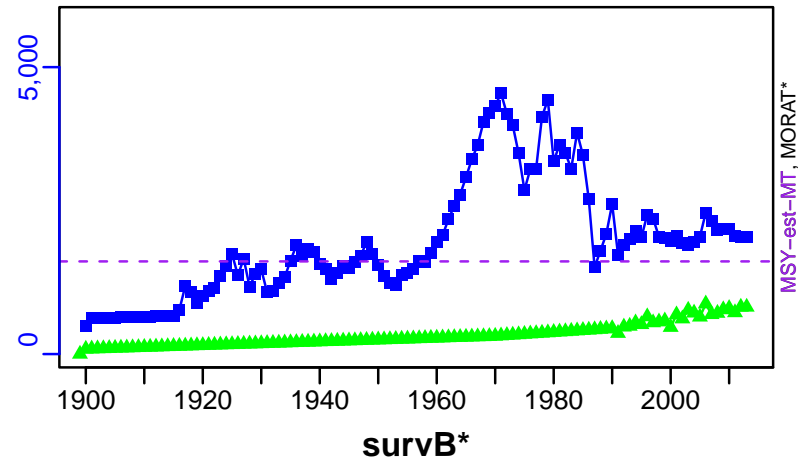
R-E00 (1899-2013-FU)



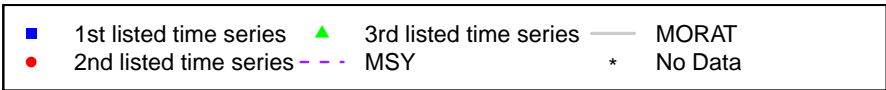
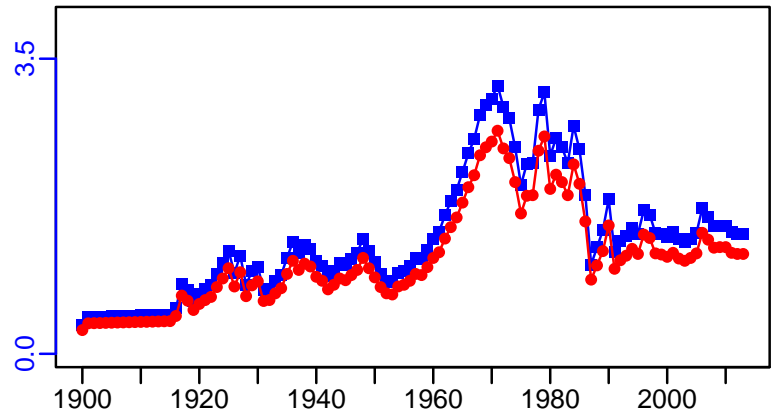
New Zealand snapper New Zealand SNA 1 east Northland [NZSNAPNZ1ENLD]

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

TAC*, Cpair*, Cadv*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1899-2013-FU)



New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

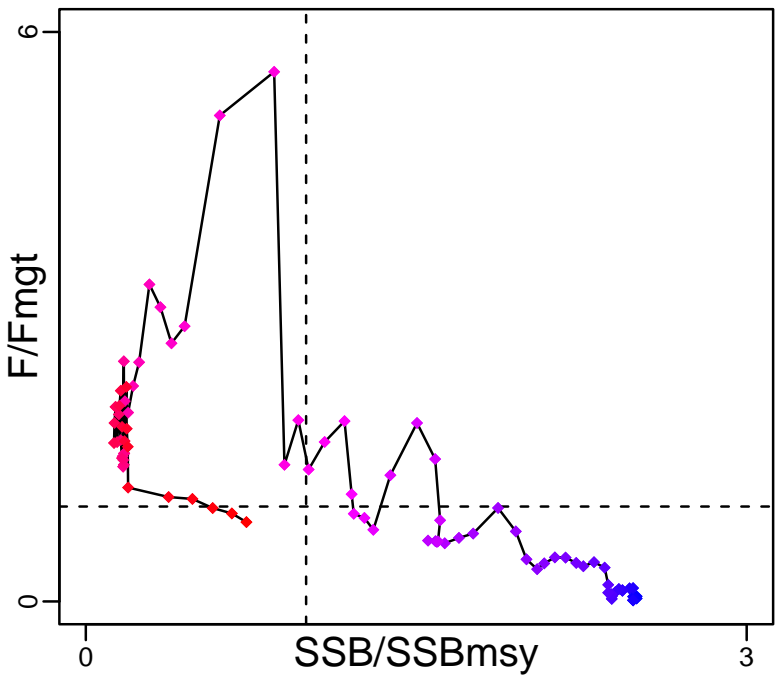
Metadata	
Scientific Name	Chrysophrys auratus
Current Assess ID	NZMFishINSHOREWG-NZSNAPNZ7-1931-2014-LANGLEY
Area	New Zealand SNA 7
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	Inshore Working Group
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	6199
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	6199
Fmgt	Fmgt-1/yr	2014	0.056
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2014	15,497
MSY	MSY-MT	2014	699
M	M-1/yr	2014	0.075
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

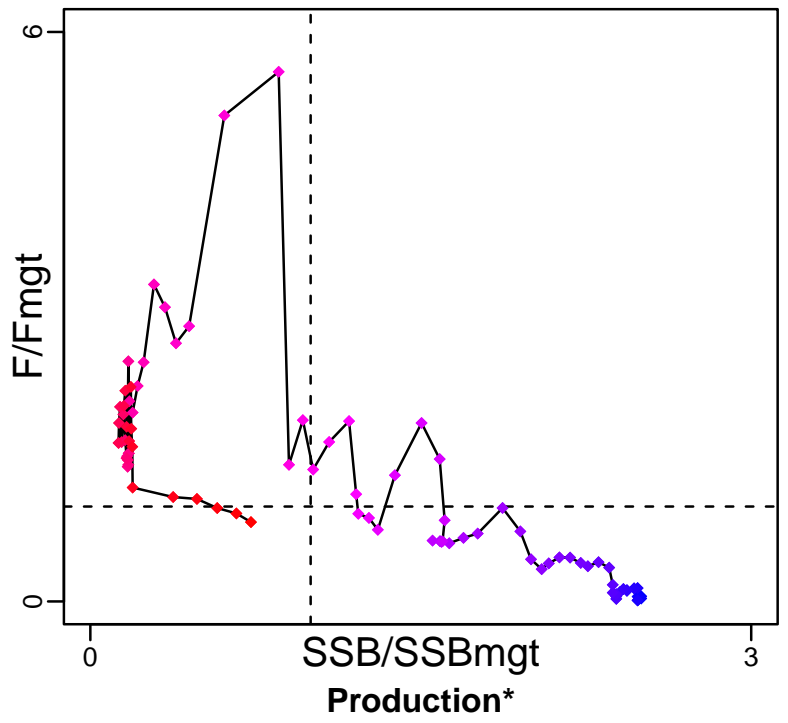
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	4520	Females	3 to 30+
TN	-	-	-	-	-
R	R-E00	2014	757,000	Both	0
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	426		
TL	TL-MT	2014	200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.729		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	0.729		
F/Fmgt	FdivFmgt-dimensionless	2014	0.836		
ER/ERmgt	-	-	-		

New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

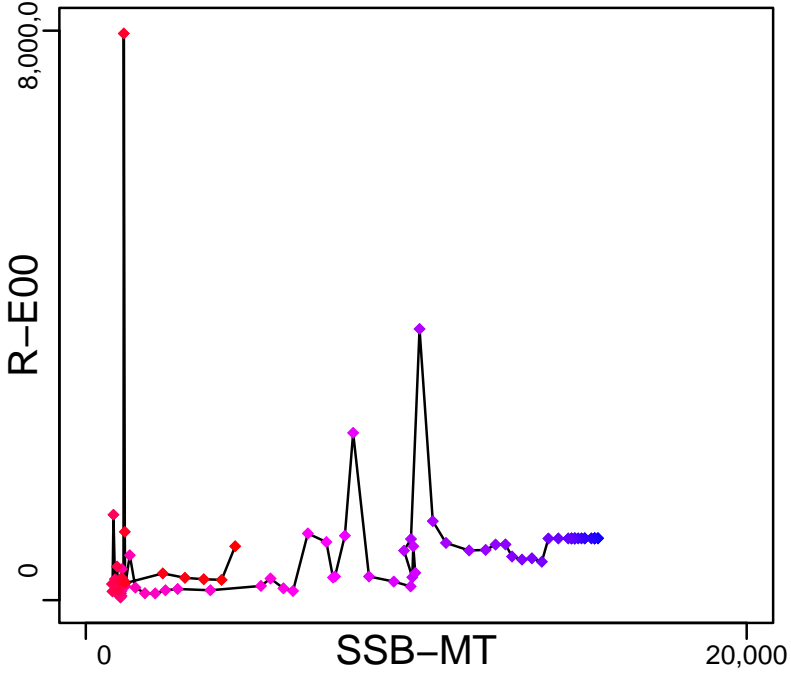
Kobe MSYpref (1931–2014–LANGLEY)



Kobe MGTpref (1931–2014–LANGLEY)



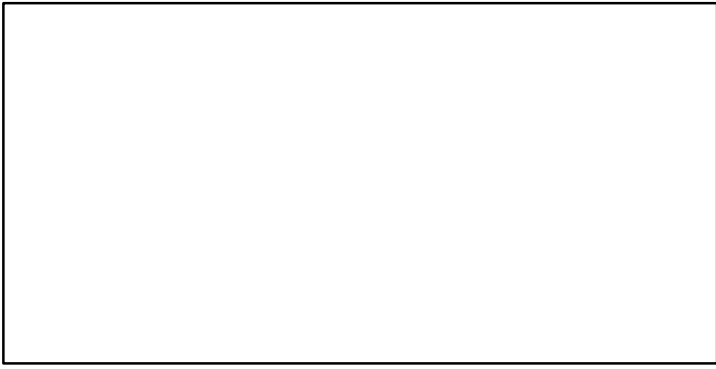
Spawner Recruit (1931–2014–LANGLEY)



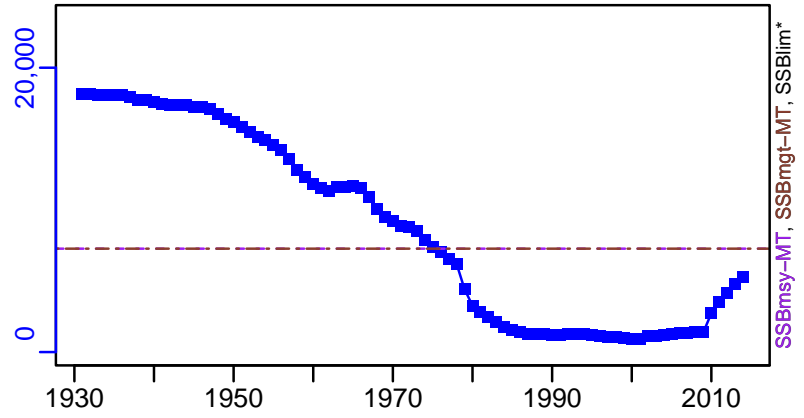
◆ Start Year ◆ End Year * No Data

New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

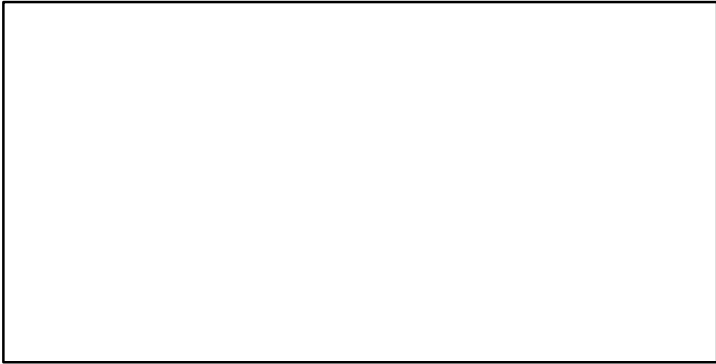
TB*



SSB-MT (1931-2014-LANGLEY)



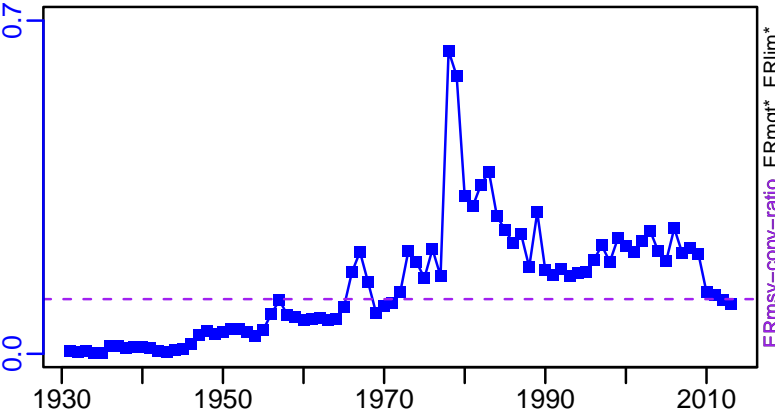
TN *



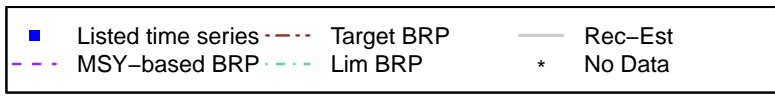
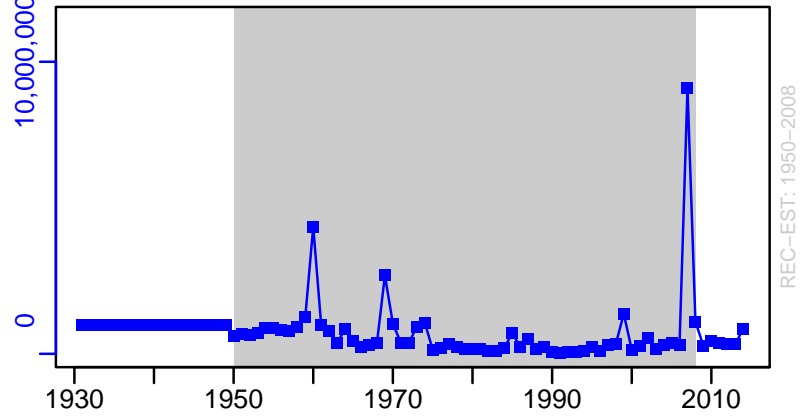
F*



ER-calc-ratio (1931-2014-LANGLEY)



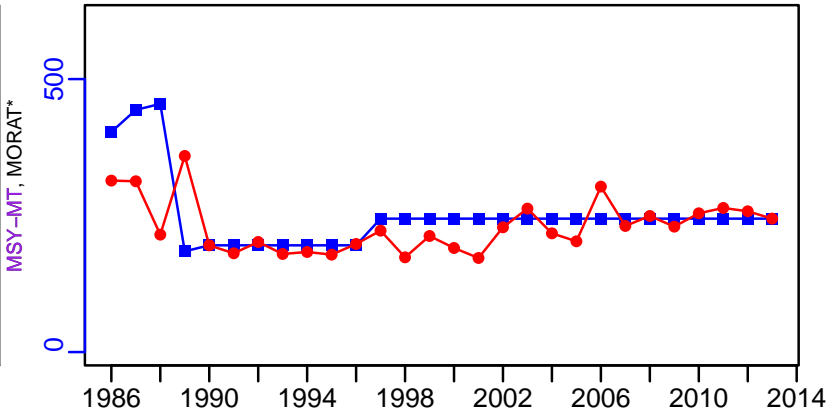
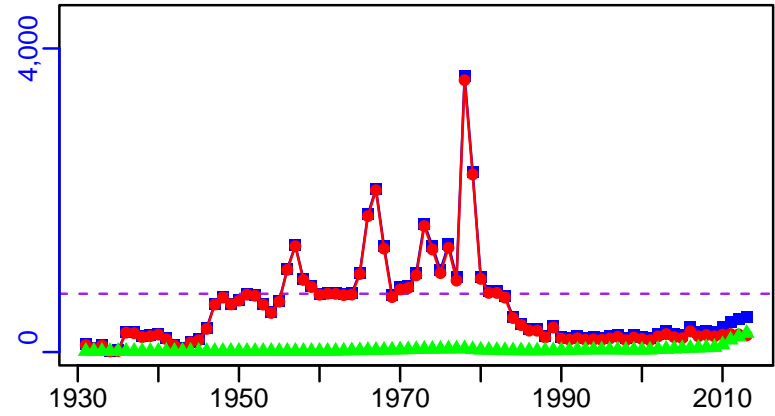
R-E00 (1931-2014-LANGLEY)



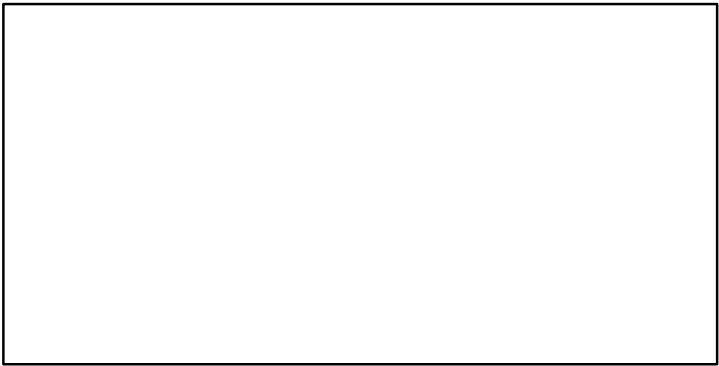
New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

TC-MT, TL-MT, RecC-MT (1931-2014-LANGLEY)

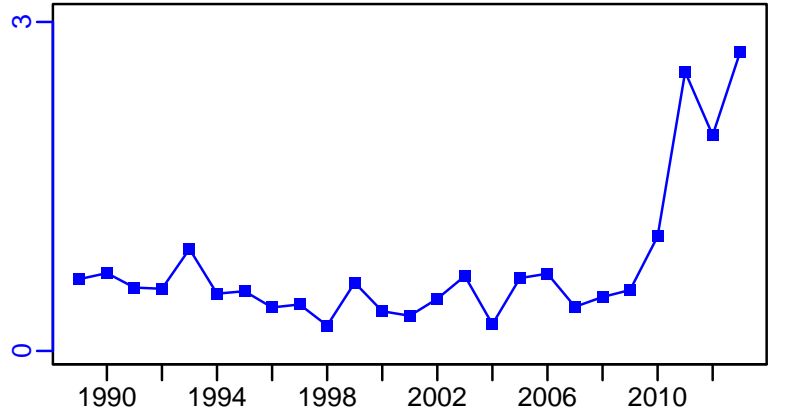
TAC-MT, Cpair-MT, Cadv* (1931-2014-LANGLEY)



survB*



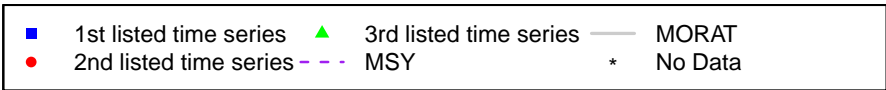
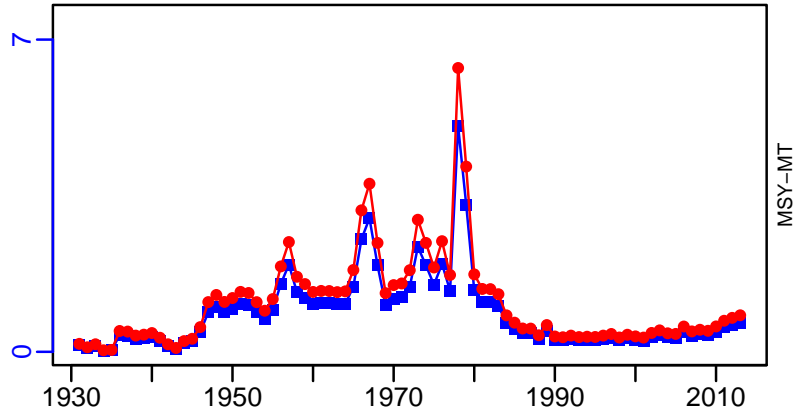
CPUE-index (1931-2014-LANGLEY)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1931-2014-LANGLEY)



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

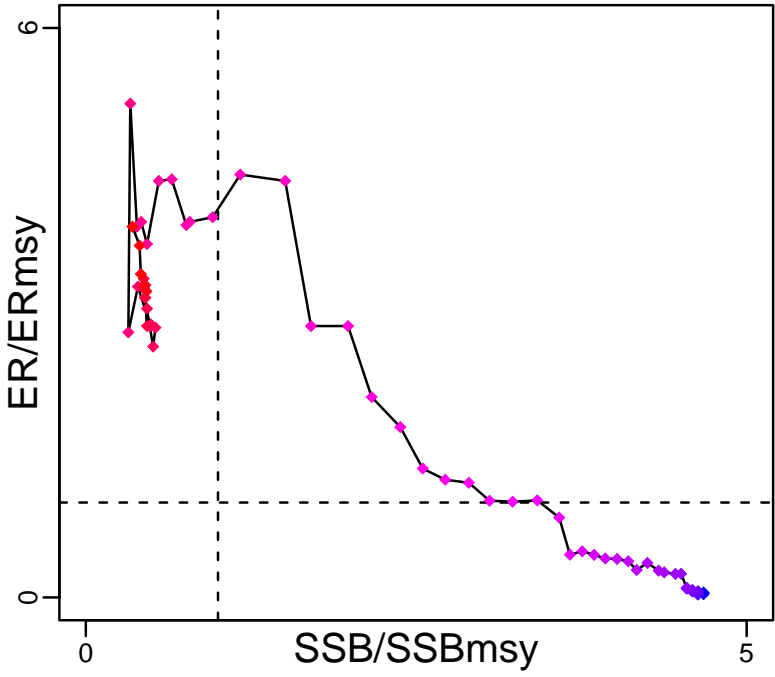
Metadata	
Scientific Name	Chrysophrys auratus
Current Assess ID	NZMFishINSHOREWG-NZSNAPNZ8-1931-2005-JENSEN
Area	New Zealand Area 8 (Auckland and Central West)
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	Inshore Working Group
Asmts in RAM	2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2005	37,979
SSBmsy	SSBmsy-MT	2005	23,536
Fmsy	Fmsy-1/yr	2005	0.092
ERmsy	ERmsy-ratio	2005	0.06
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2005	120,884
MSY	MSY-MT	2005	2285
M	M-1/yr	2005	0.051
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

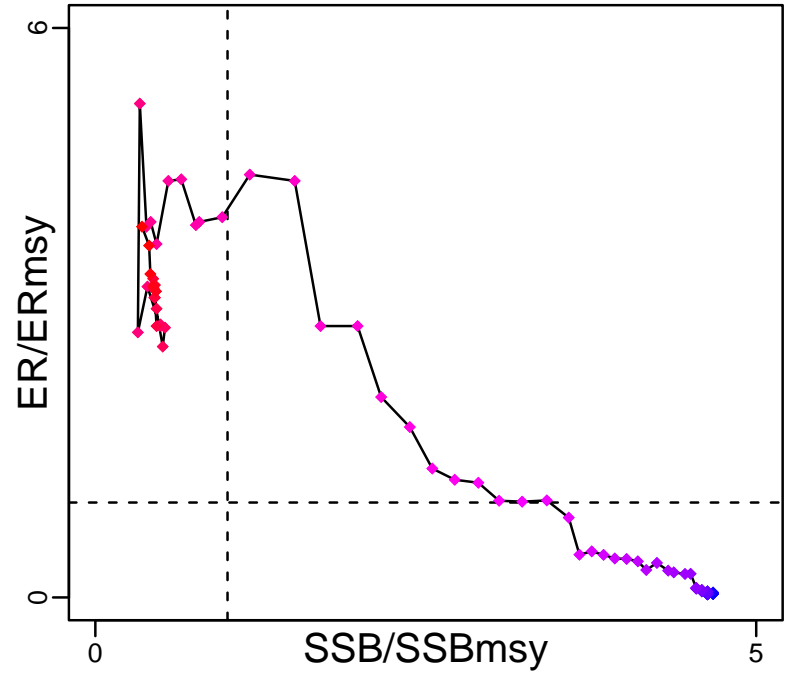
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2005	8310	Both	-
TN	-	-	-	-	-
R	R-E00	2005	1,770,000	-	3
F	F-1/yr	2005	0.23	-	-
ER	ER-ratio	2005	0.235	-	-
TC	TC-MT	2005	1950		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2005	0.353		
F/Fmsy	F-1/yr/Fmsy-1/yr	2005	2.492		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	3.906		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

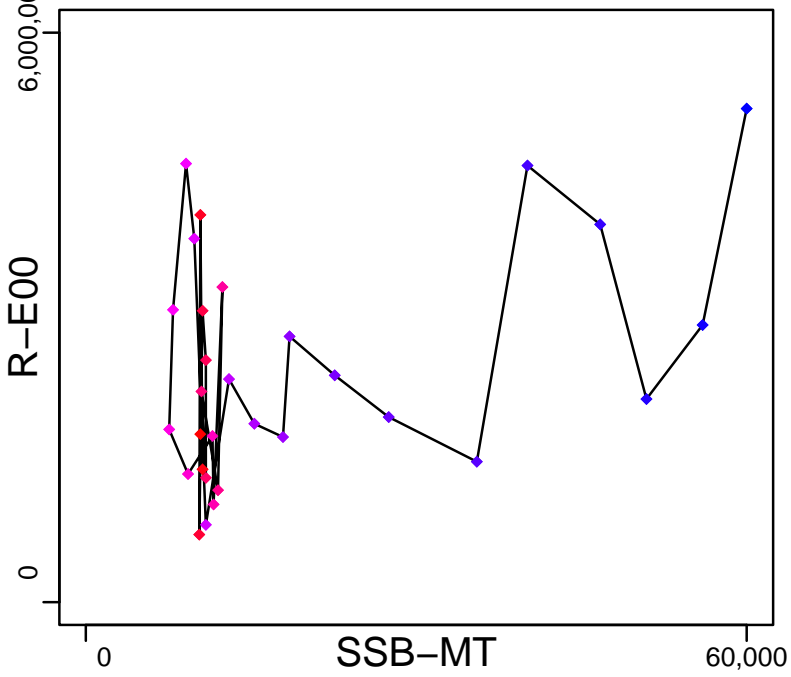
Kobe MSYpref (1931–2005–JENSEN)



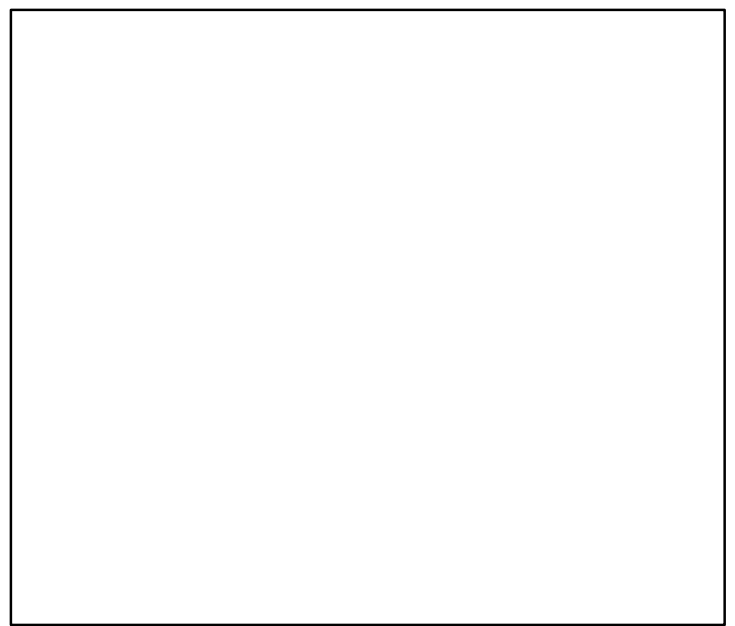
Kobe MGTpref (1931–2005–JENSEN)



Spawner Recruit (1931–2005–JENSEN)



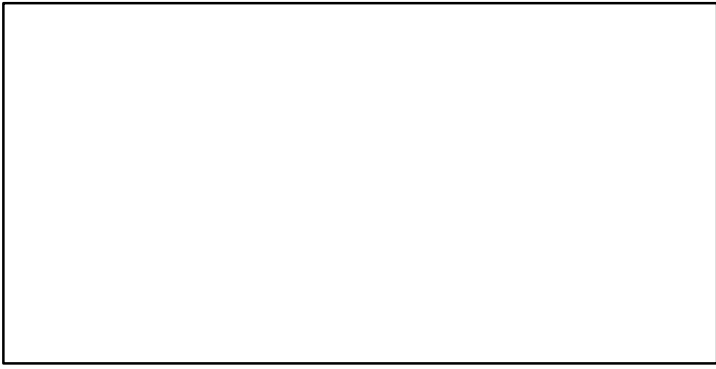
Production*



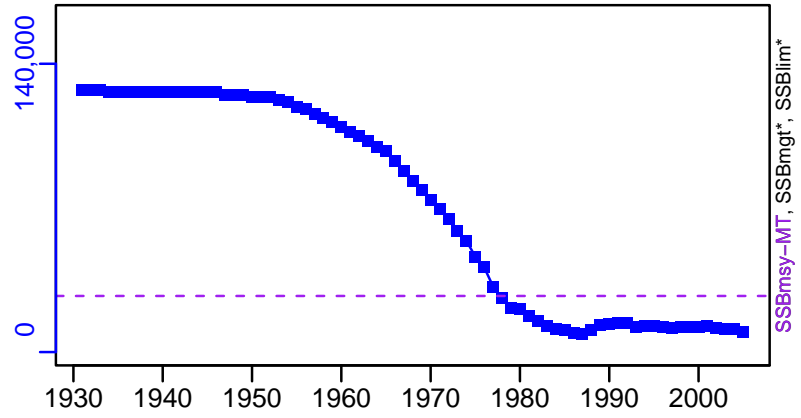
◆ Start Year ◆ End Year * No Data

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

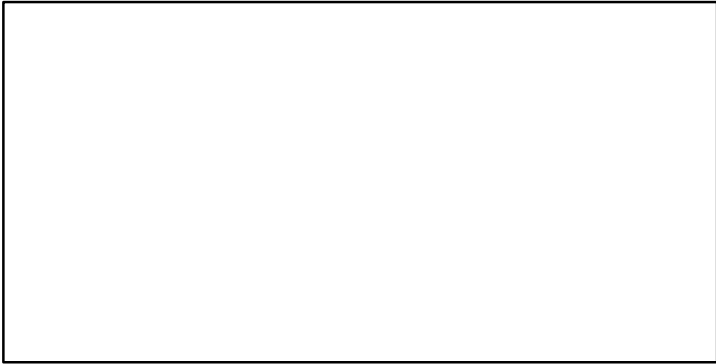
TB*



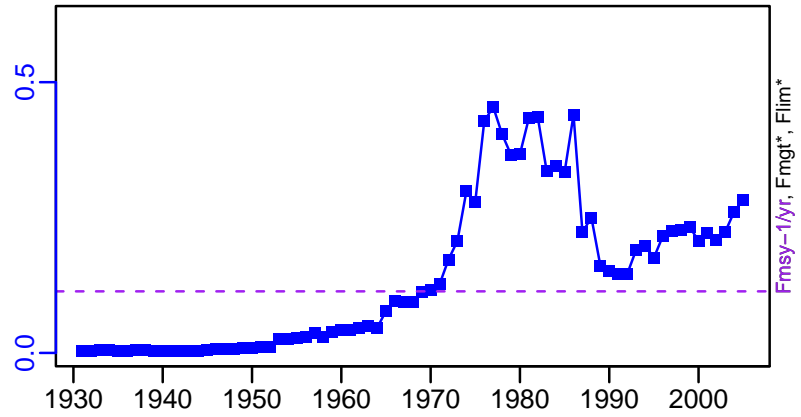
SSB-MT (1931-2005-JENSEN)



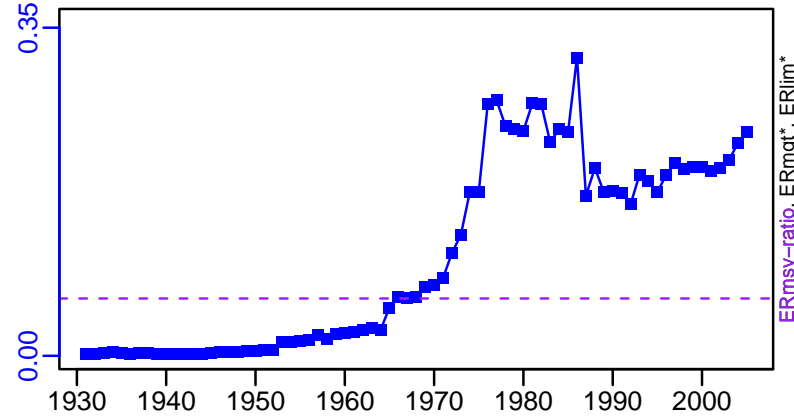
TN *



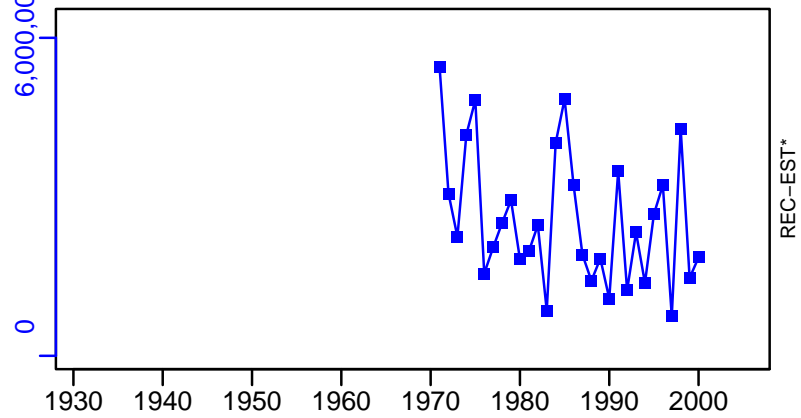
F-1/yr (1931-2005-JENSEN)



ER-ratio (1931-2005-JENSEN)



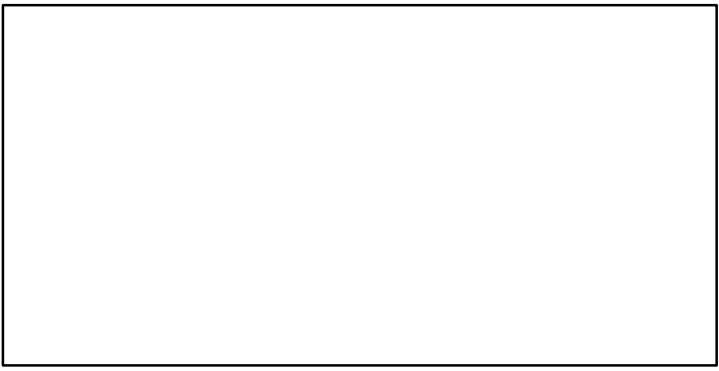
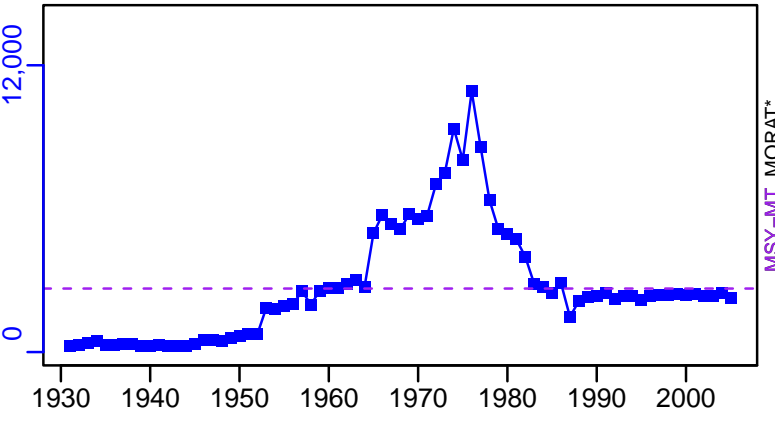
R-E00 (1931-2005-JENSEN)



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

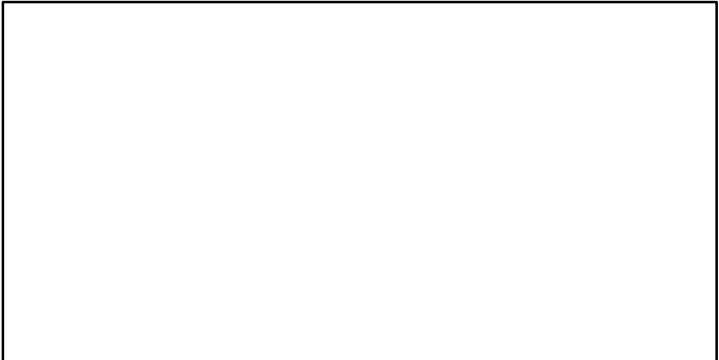
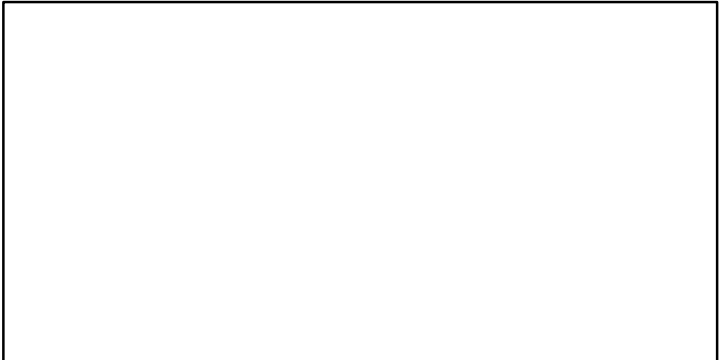
TC-MT, TL*, RecC* (1931-2005-JENSEN)

TAC*, Cpair*, Cadv*



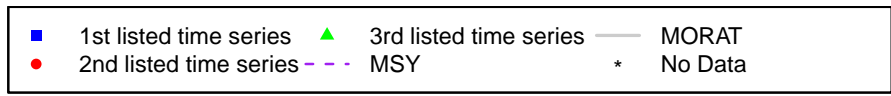
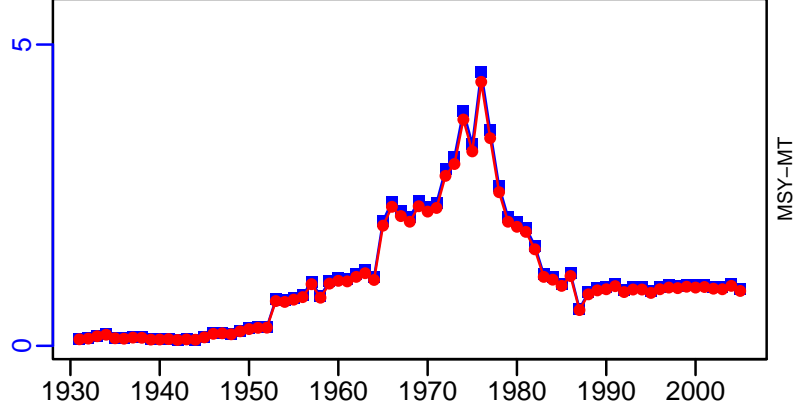
survB*

CPUE*



EFFORT*

TC-MT/MSY-MT, CdivMEANC-ratio, (1931-2005-JENSEN)



Pandora spp North West Africa [PANDSPPNWA]

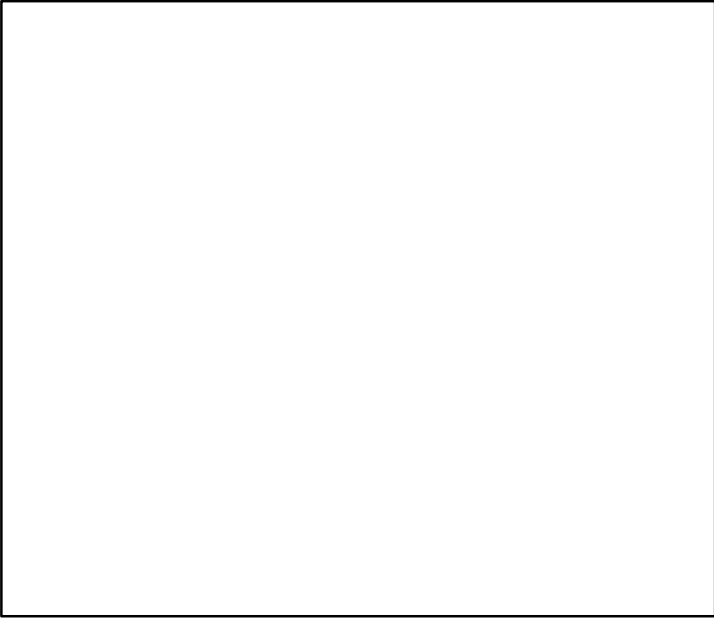
Metadata	
Scientific Name	Pagellus spp
Current Assess ID	FAO-DR-PANDSPPNWA-1990-2016-ASHBROOK
Area	North West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2016

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

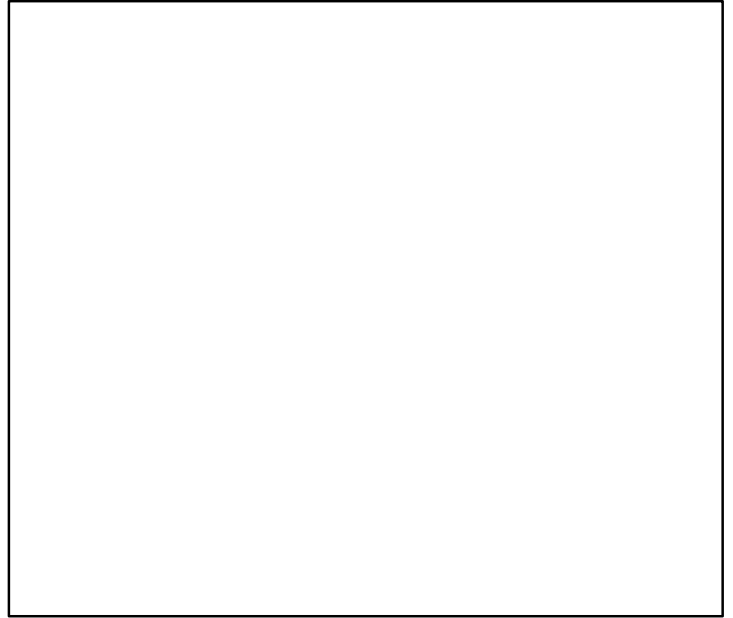
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2701		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pandora spp North West Africa [PANDSPPNWA]

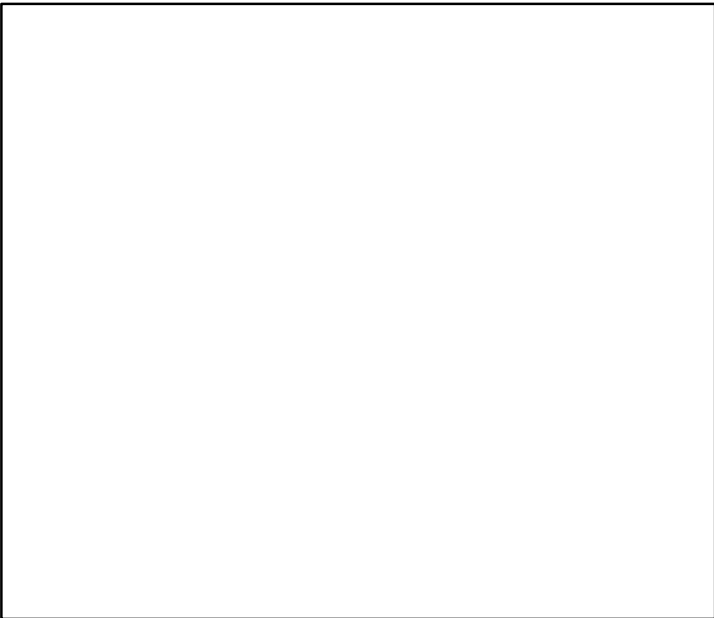
Kobe MSY*



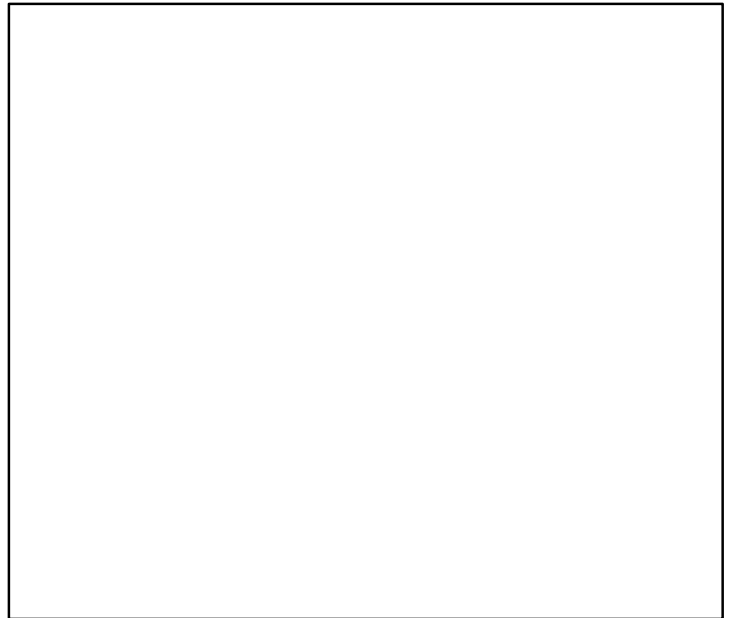
Kobe MGT*



Spawner Recruit*



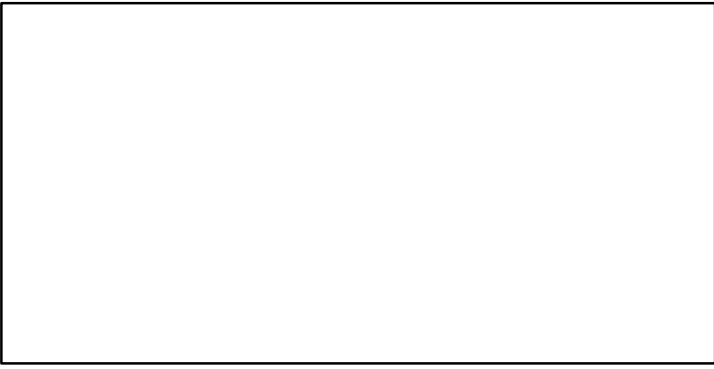
Production*



◆ Start Year ◆ End Year * No Data

Pandora spp North West Africa [PANDSPPNWA]

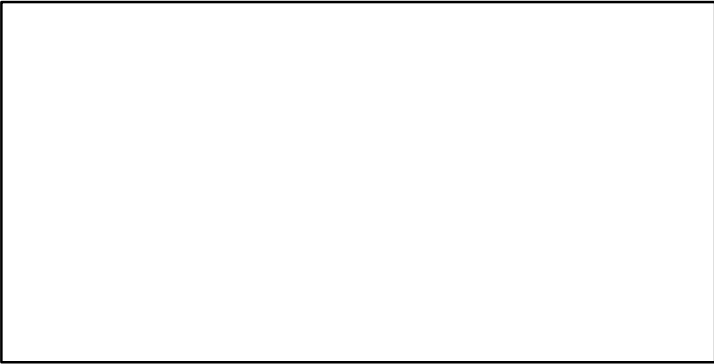
TB*



SSB*



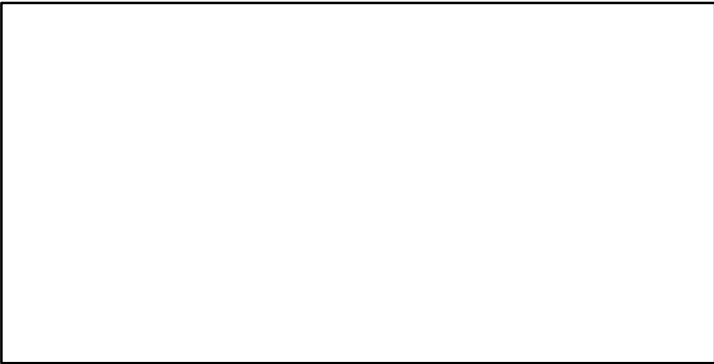
TN *



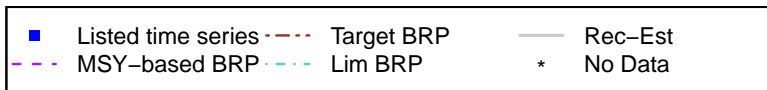
F*



ER*



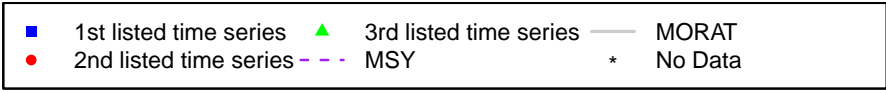
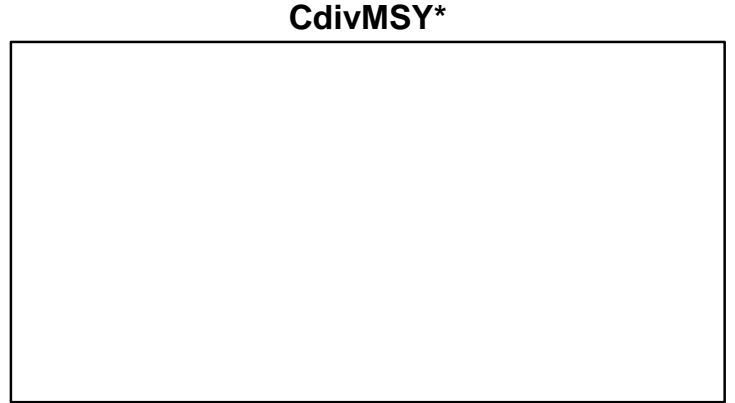
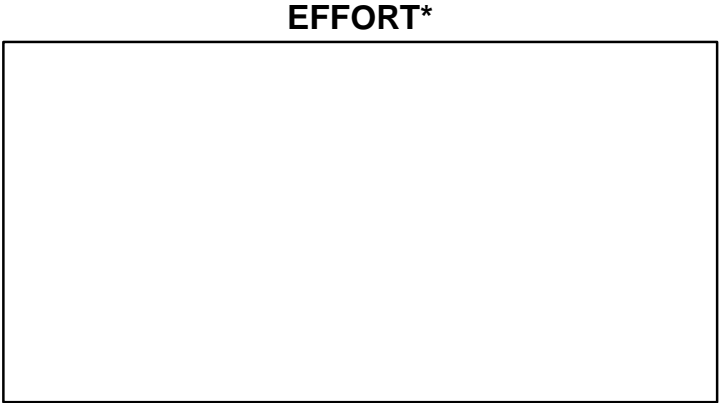
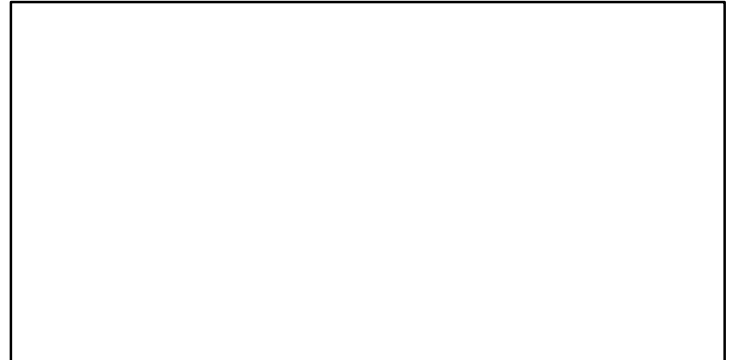
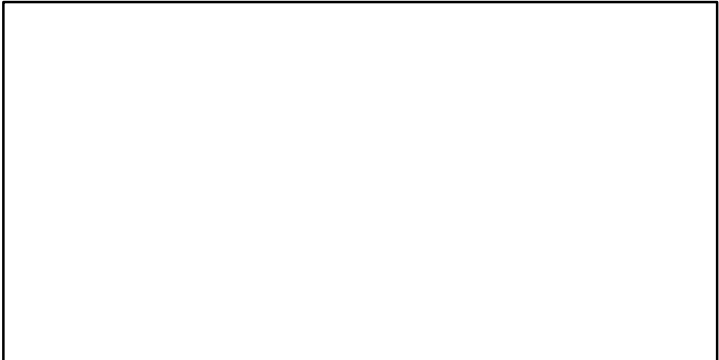
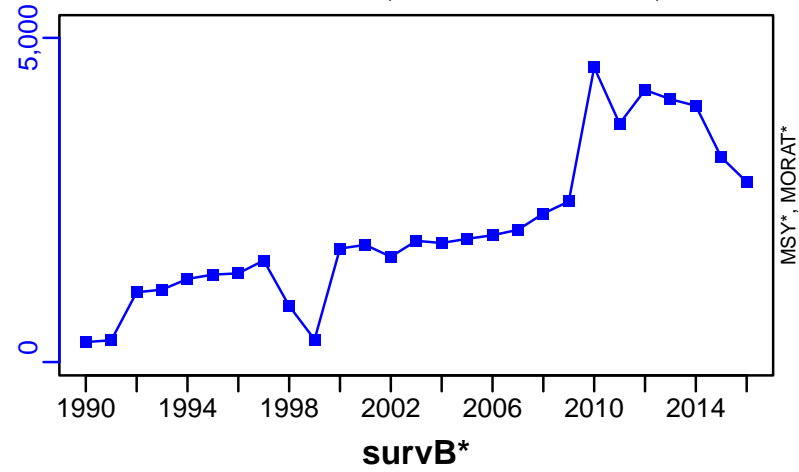
Recruits*



Pandora spp North West Africa [PANDSPPNWA]

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

TAC*, Cpair*, Cadv*



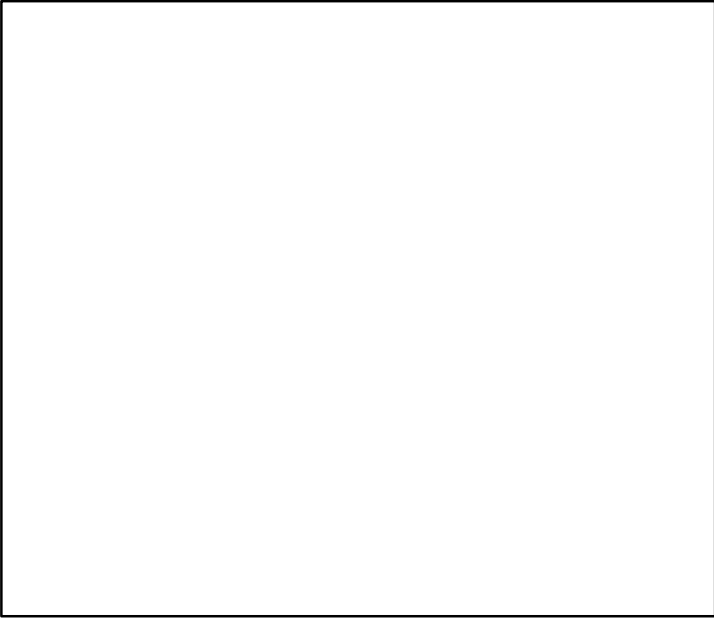
Picarel Cyprus Island [PICAMEDGSA25]

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

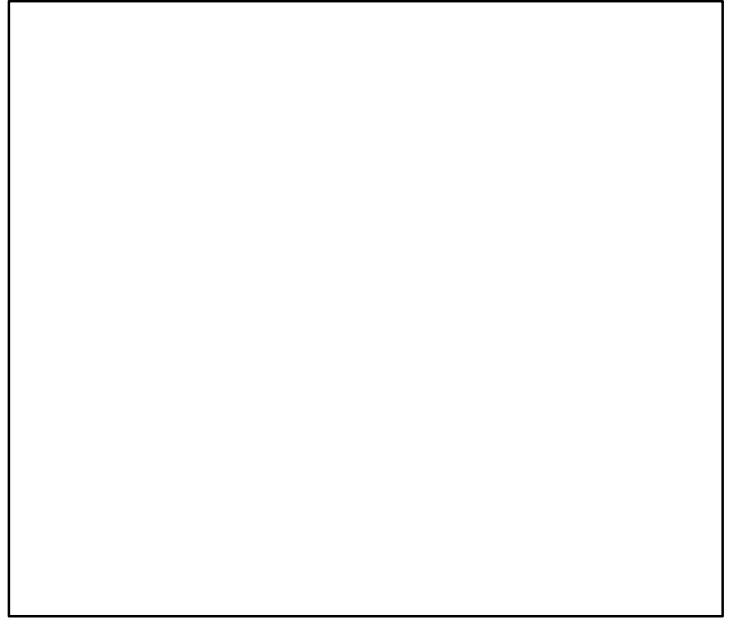
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2010	0.31
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2010	1350	-	0+
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.08	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	245		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2010	0.258		
ER/ERmgt	-	-	-		

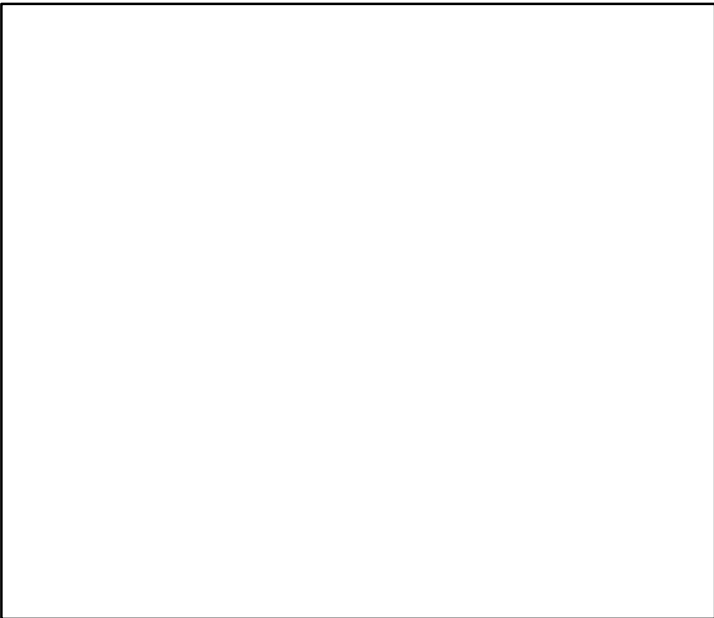
Kobe MSY*



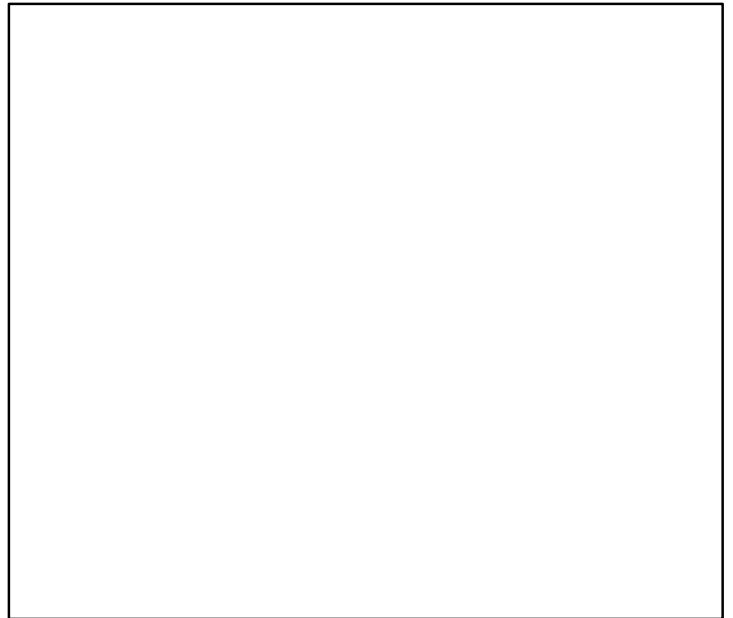
Kobe MGT*



Spawner Recruit*



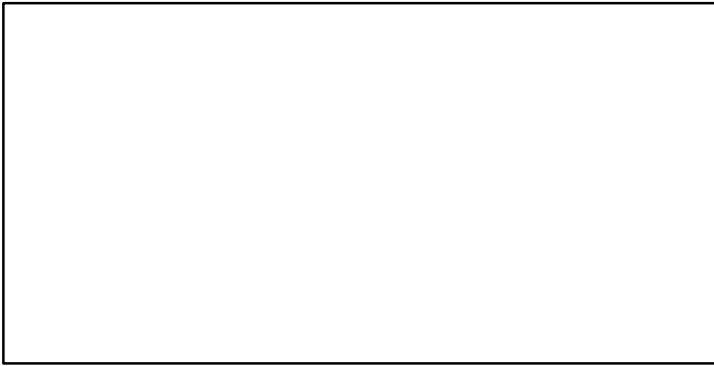
Production*



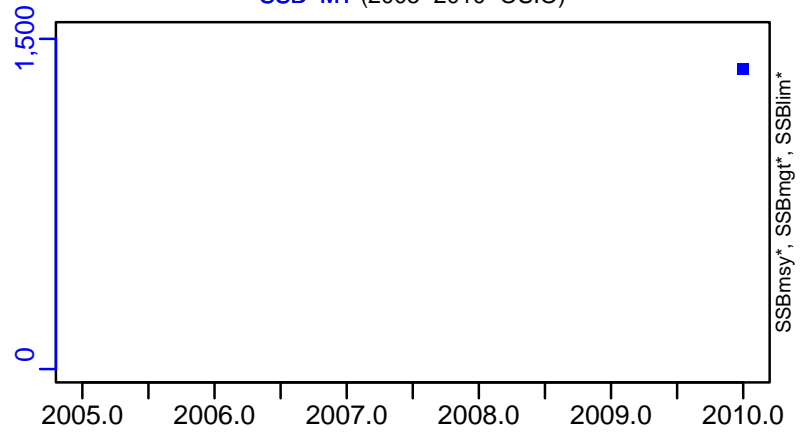
◆ Start Year ◆ End Year * No Data

Picarel Cyprus Island [PICAMEDGSA25]

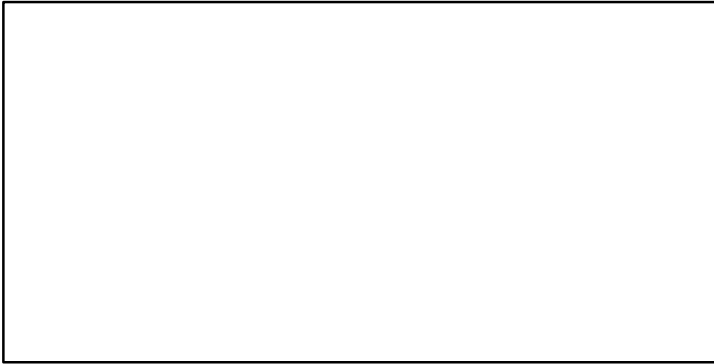
TB*



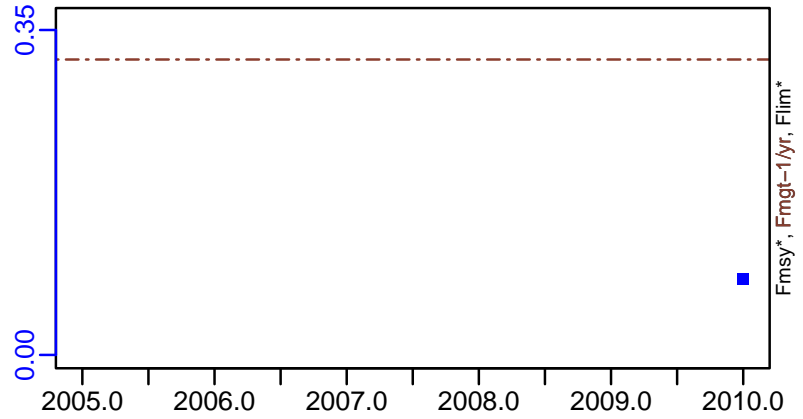
SSB-MT (2005-2010-OSIO)



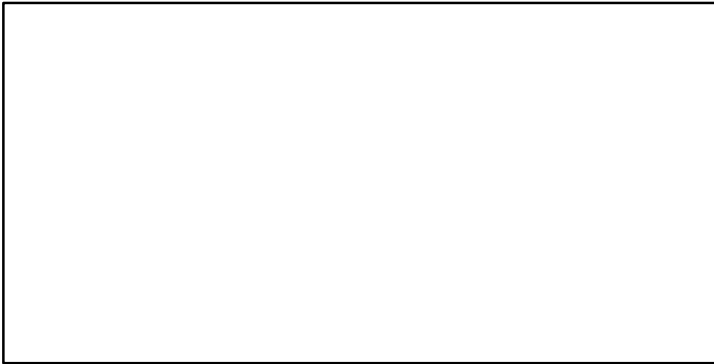
TN *



F-1/yr (2005-2010-OSIO)



ER*



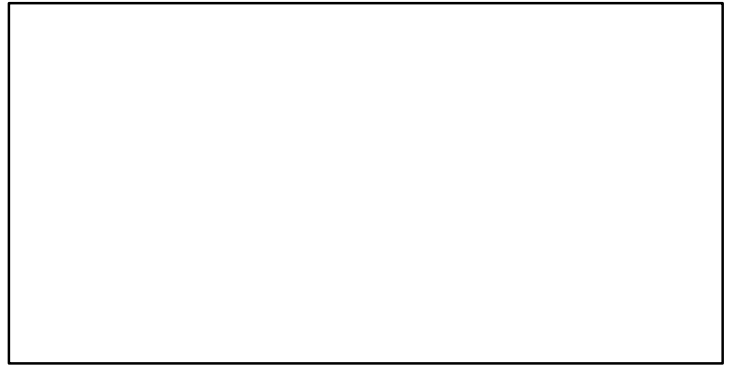
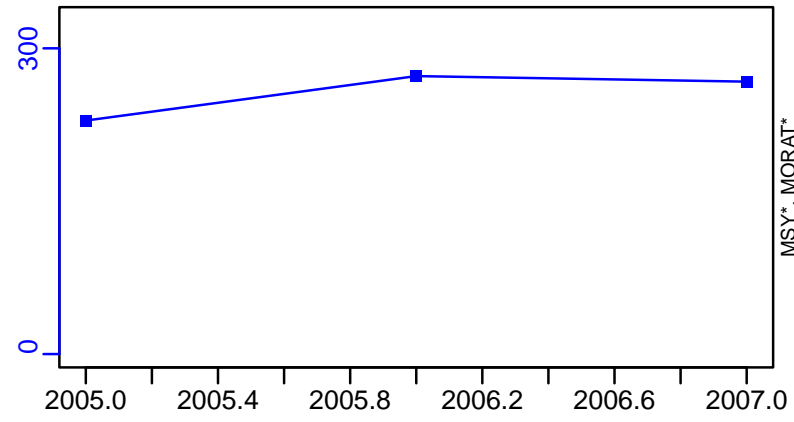
Recruits*



Picarel Cyprus Island [PICAMEDGSA25]

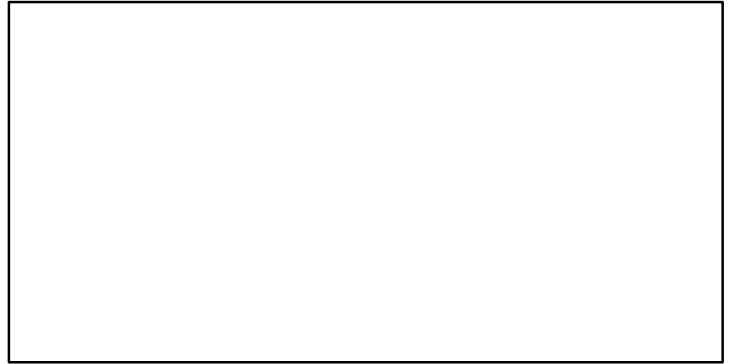
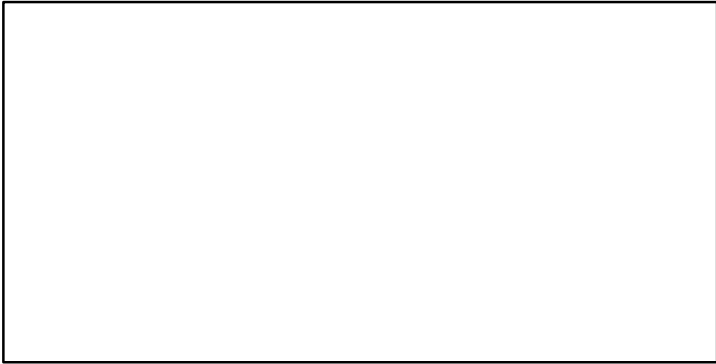
TC-MT, TL*, RecC* (2005-2010-OSIO)

TAC*, Cpair*, Cadv*



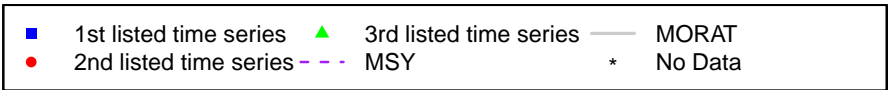
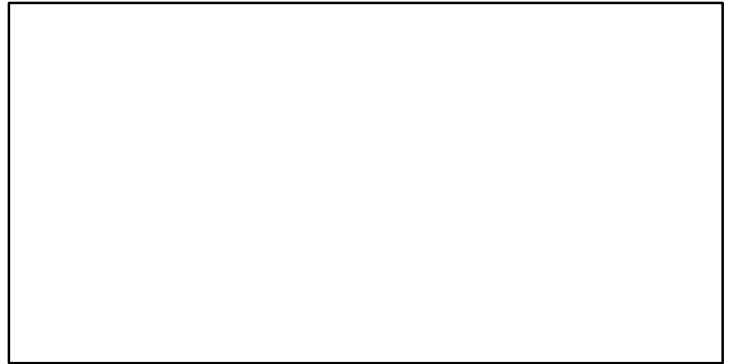
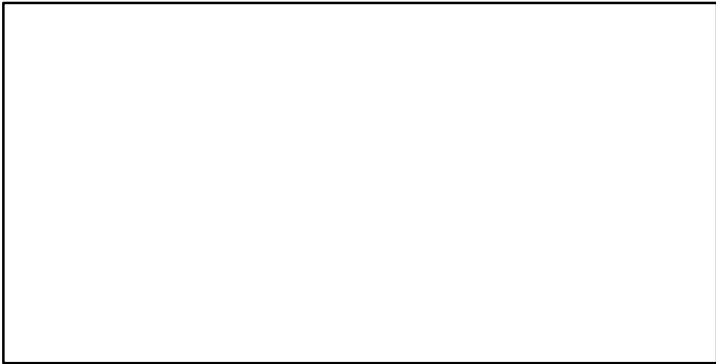
survB*

CPUE*



EFFORT*

CdivMSY*



Red seabream East China Sea [RBRMECS]

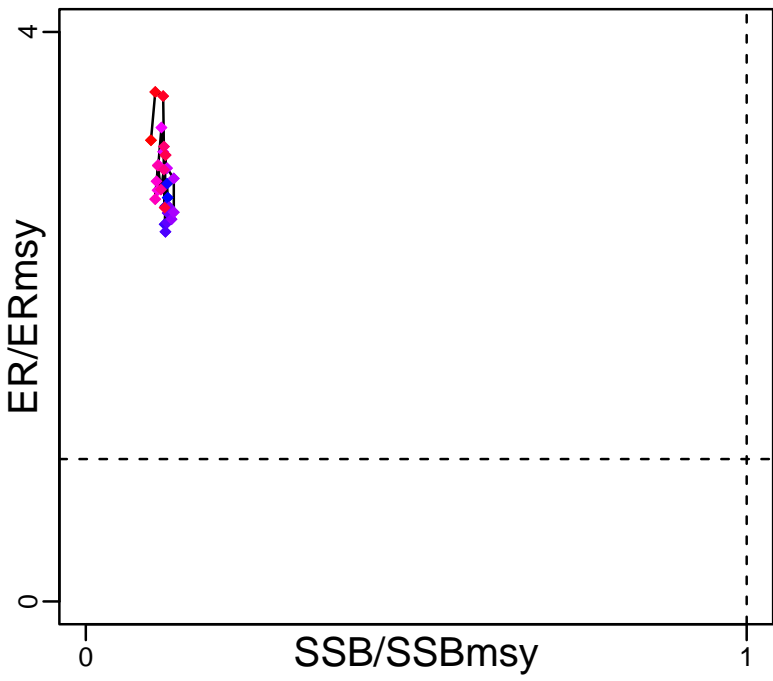
Metadata	
Scientific Name	Pagrus major
Current Assess ID	FAFRFJ-RBRMECS-1969-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2010, 2013

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

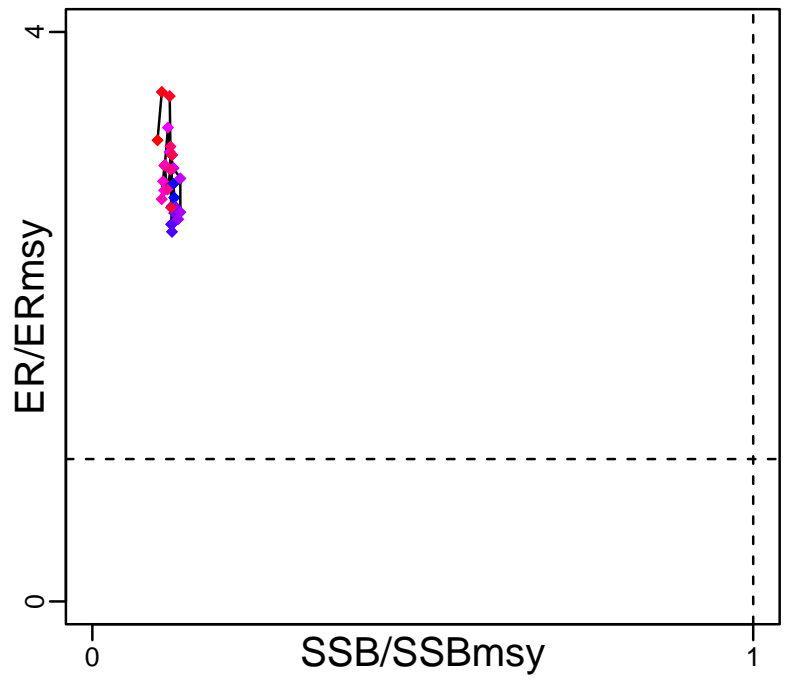
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	14,200	-	1
SSB	SSB-MT	2013	8590	Both	3
TN	-	-	-	-	-
R	R-E00	2013	10,800,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.389	-	-
TC	TC-MT	2013	5520		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.147		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.099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

Red seabream East China Sea [RBRMECS]

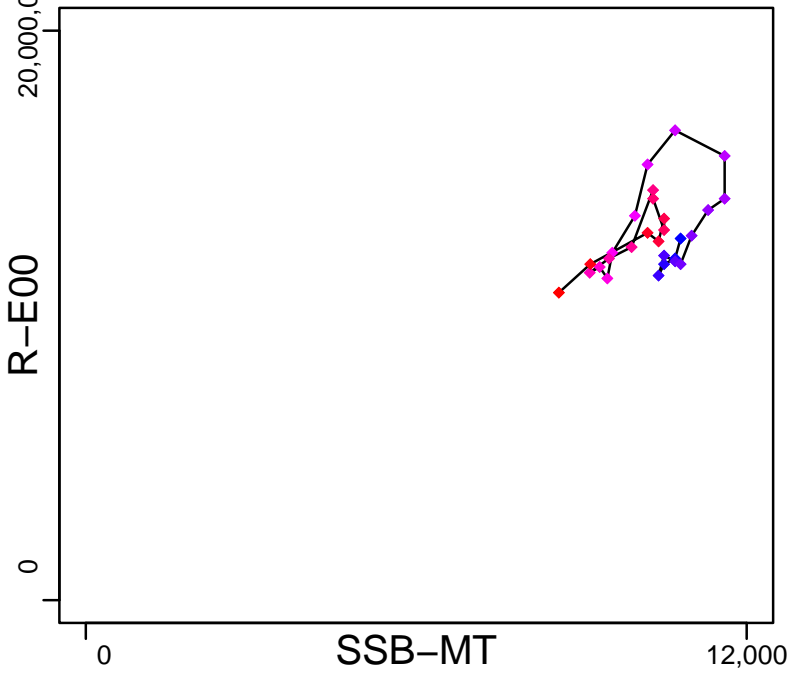
Kobe MSYpref (1969–2013–JPNIMP2016)



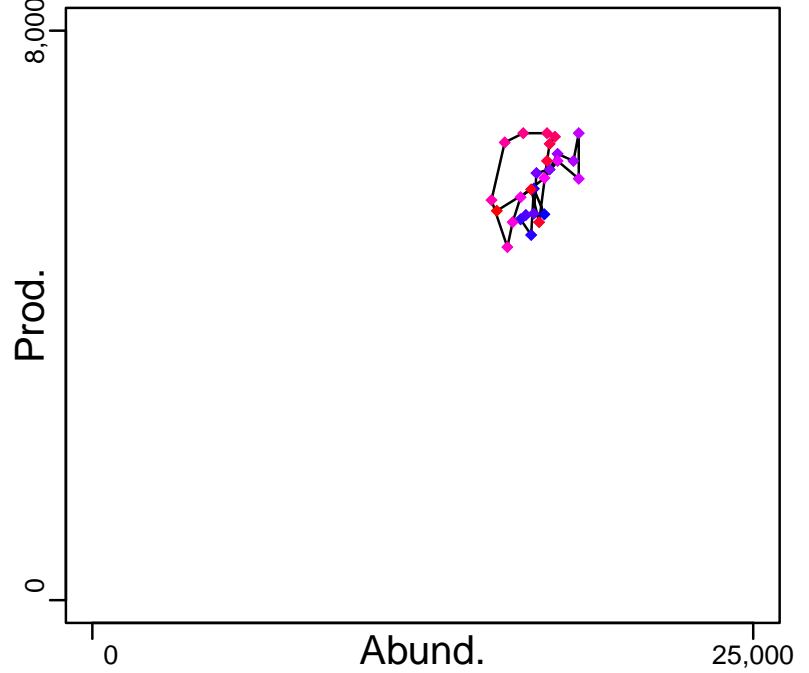
Kobe MGTpref (1969–2013–JPNIMP2016)



Spawner Recruit (1969–2013–JPNIMP2016)



Production (1969–2013–JPNIMP2016)

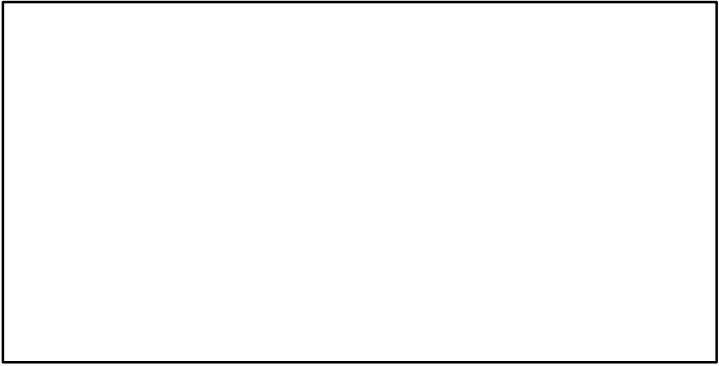
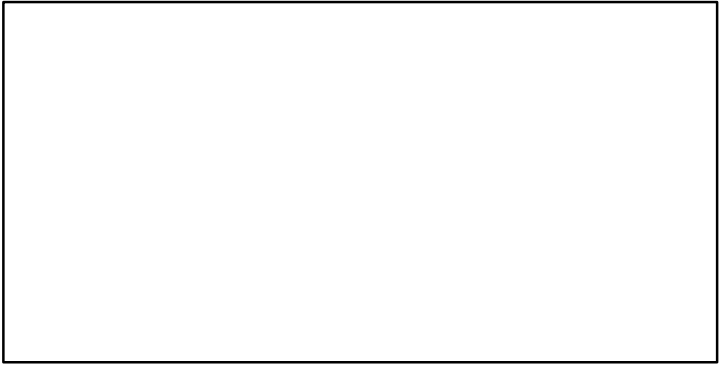
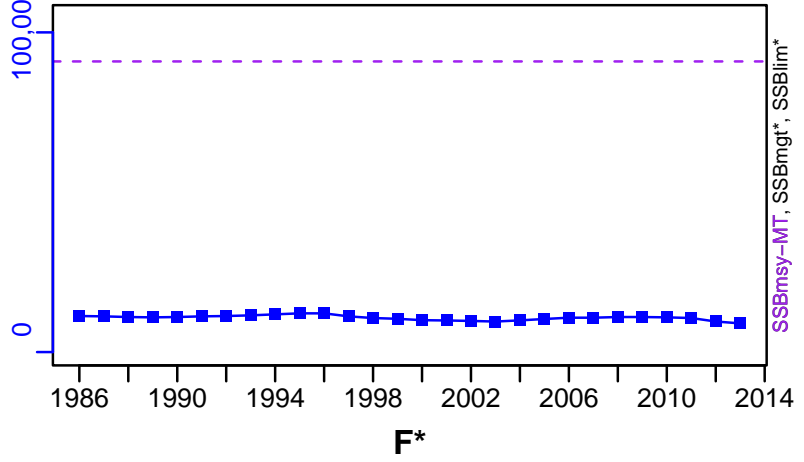
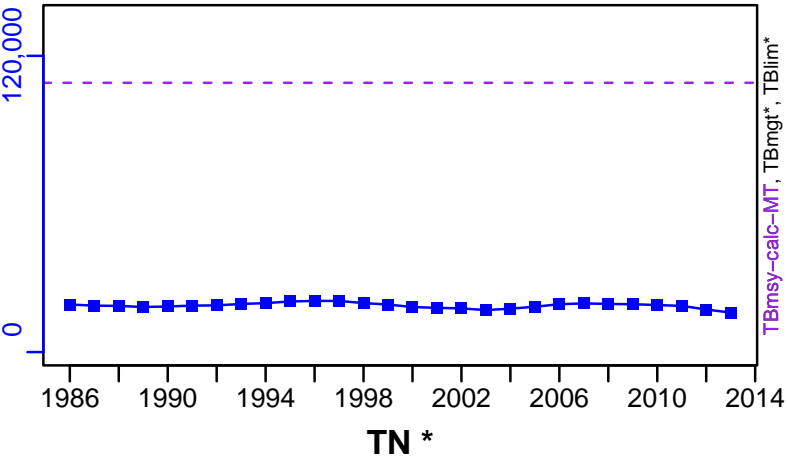


◆ Start Year ◆ End Year * No Data

Red seabream East China Sea [RBRMECS]

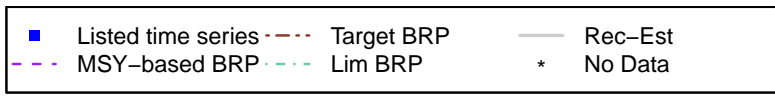
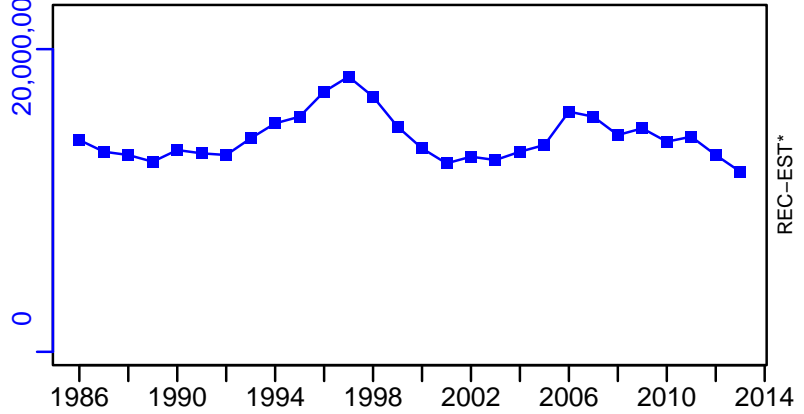
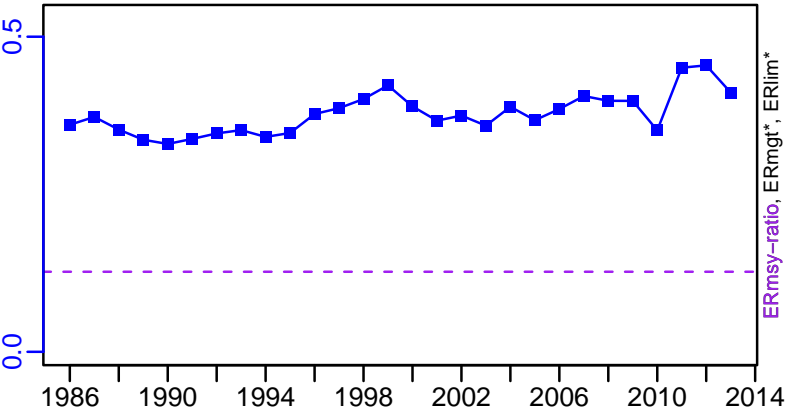
TB-MT (1969-2013-JPNIMP2016)

SSB-MT (1969-2013-JPNIMP2016)



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

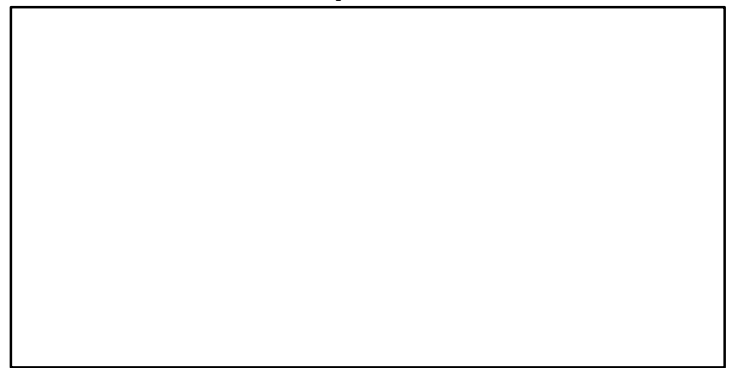
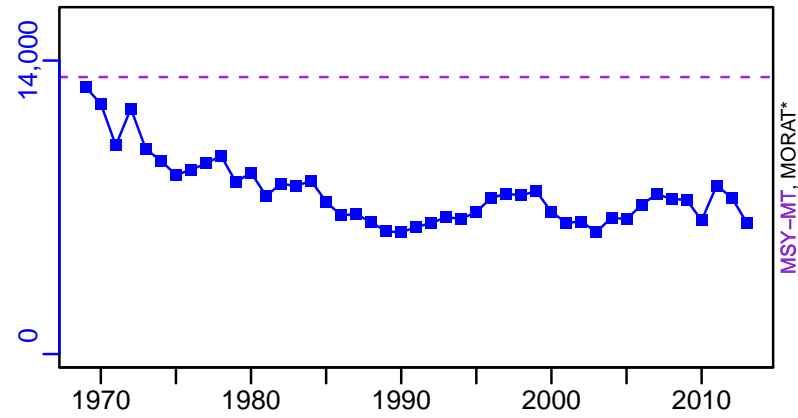
R-E00 (1969-2013-JPNIMP2016)



Red seabream East China Sea [RBRMECS]

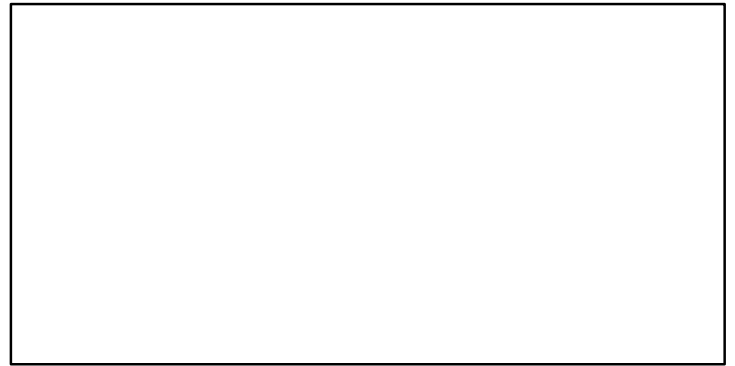
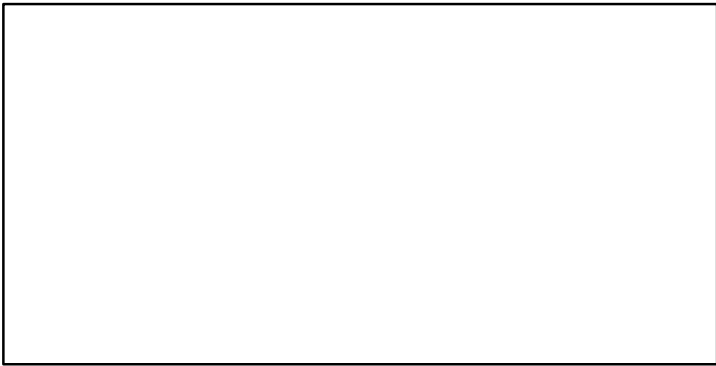
TC-MT, TL*, RecC* (1969-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



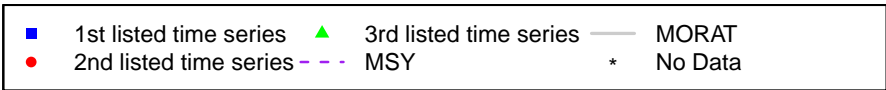
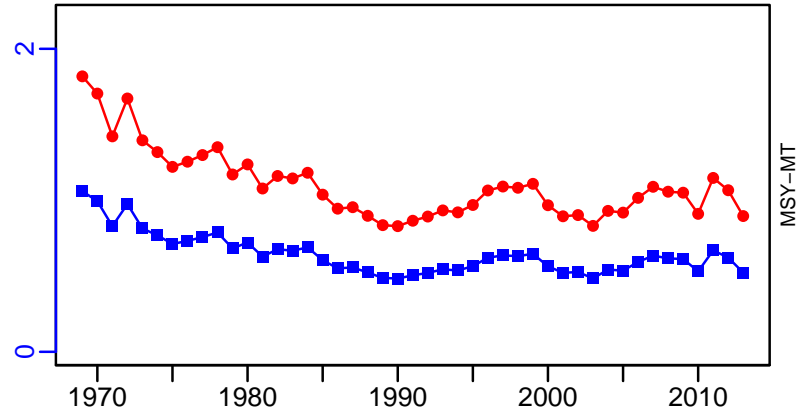
survB*

CPUE*



EFFORT*

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



Red seabream ICES 9 [RBRMIX]

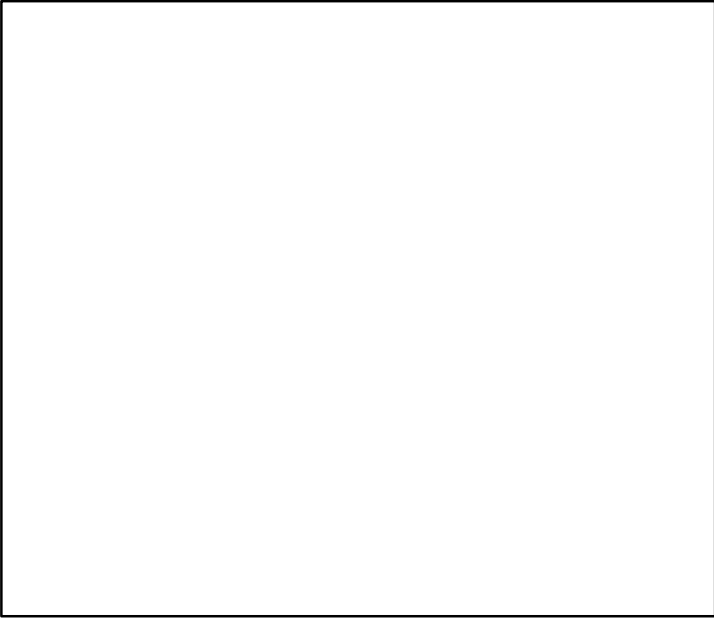
Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMIX-1988-2019-ICESIMP2021-2
Area	ICES 9
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017, 2019

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

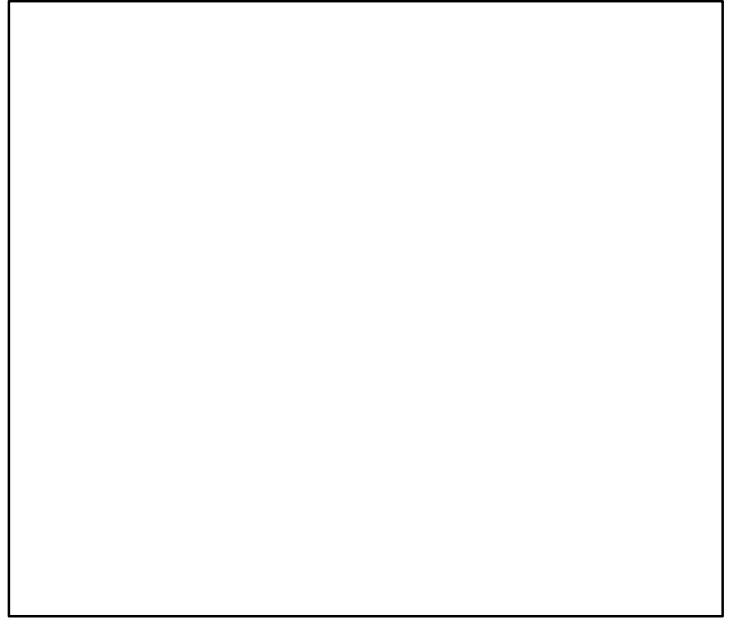
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	295		
TL	TL-MT	2019	60		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-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

Red seabream ICES 9 [RBRMIX]

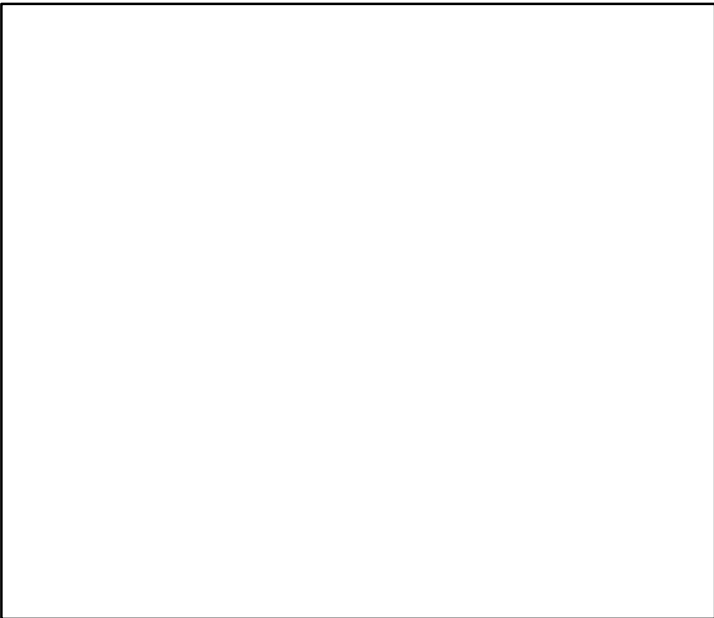
Kobe MSY*



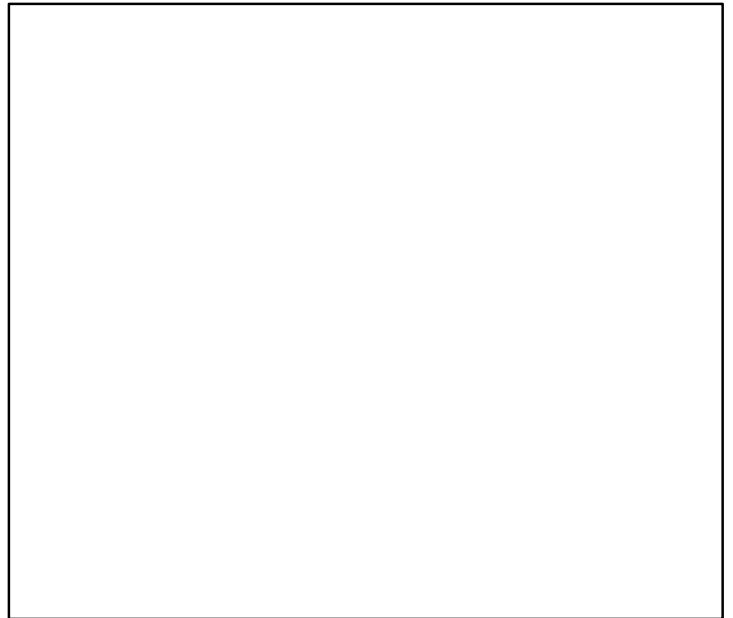
Kobe MGT*



Spawner Recruit*



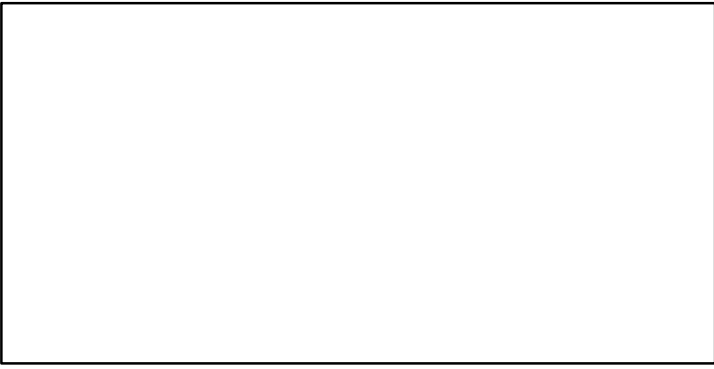
Production*



◆ Start Year ◆ End Year * No Data

Red seabream ICES 9 [RBRMIX]

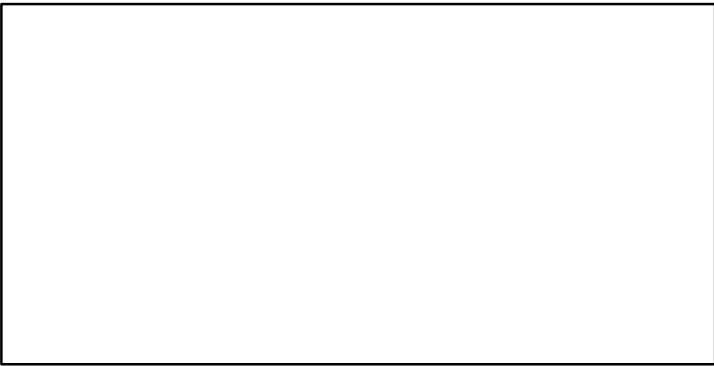
TB*



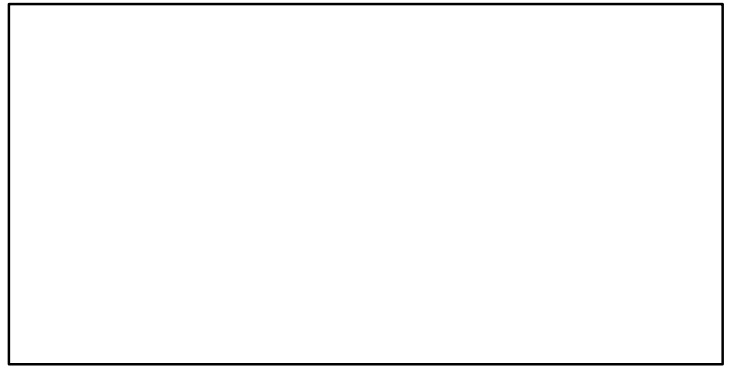
SSB*



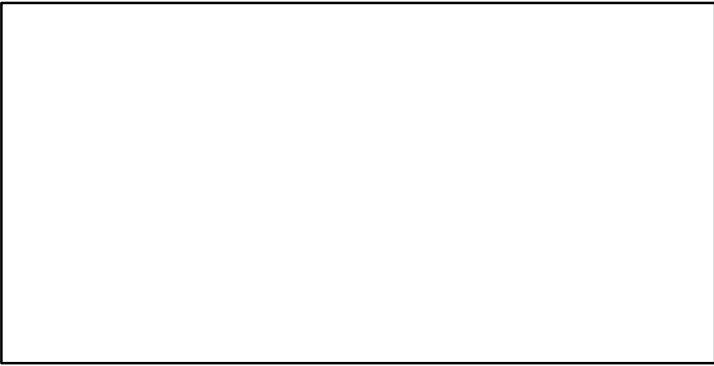
TN *



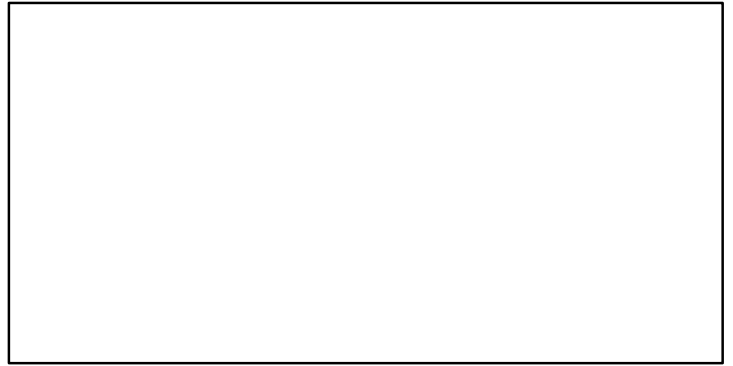
F*



ER*

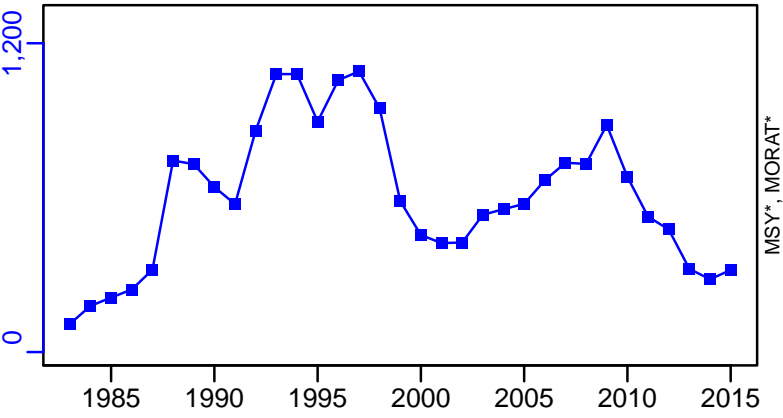


Recruits*

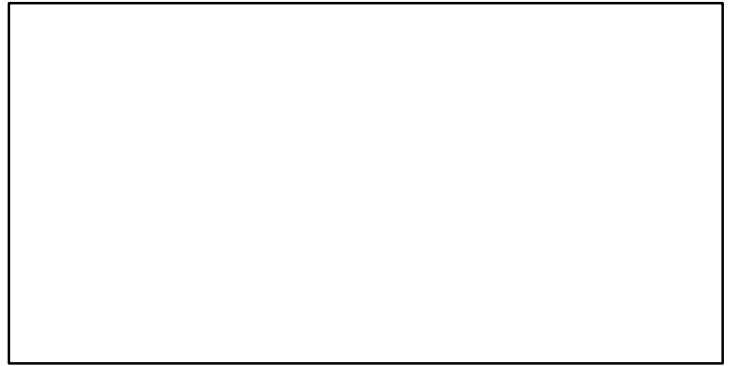


Red seabream ICES 9 [RBRMIX]

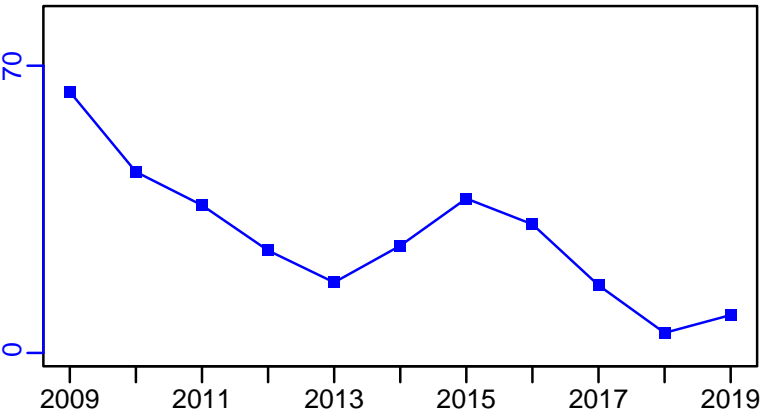
TC-MT, TL*, RecC* (1983-2016-ICESIMP2016)



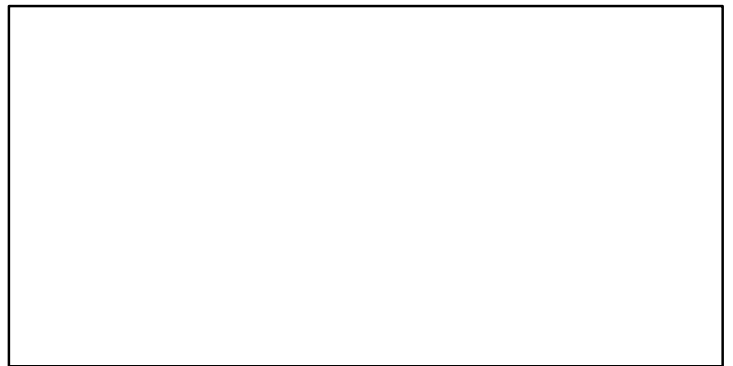
TAC*, Cpair*, Cadv*



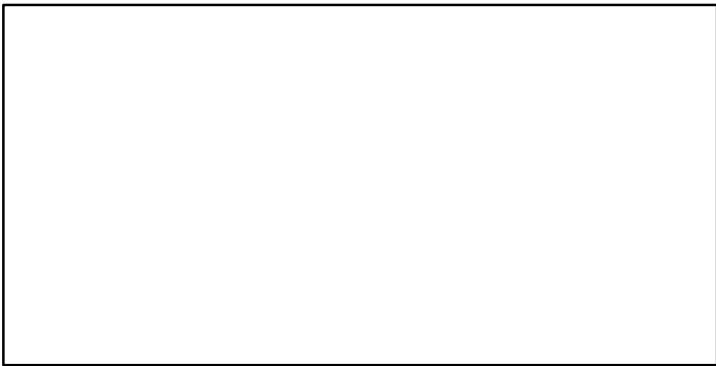
survB-index (1988-2019-ICESIMP2021-2)



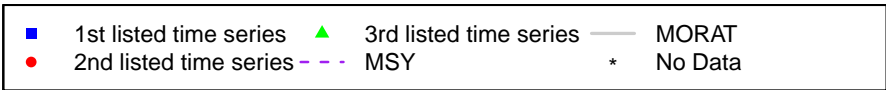
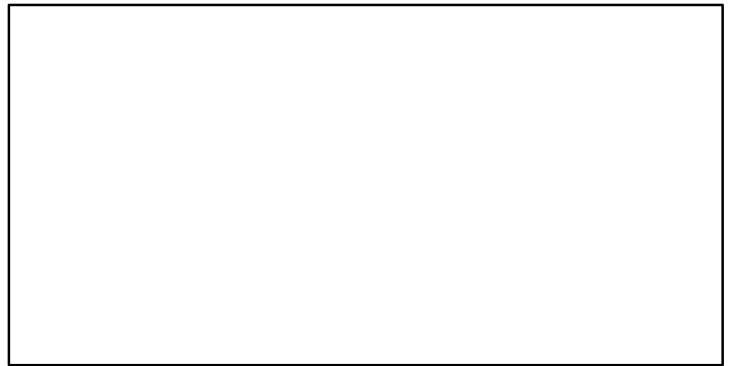
CPUE*



EFFORT*



CdivMSY*



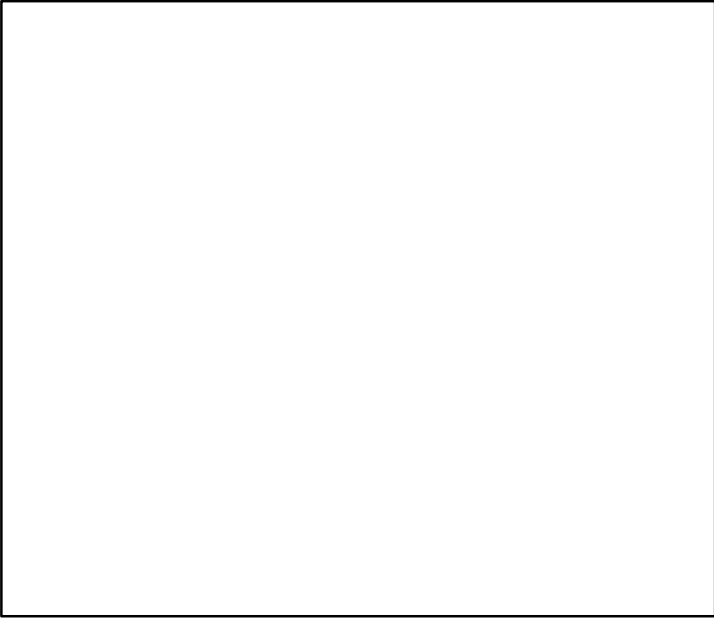
Red seabream Alboran Island Sea (GSA 1,3) [RBRMMEDGSA1-3]

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

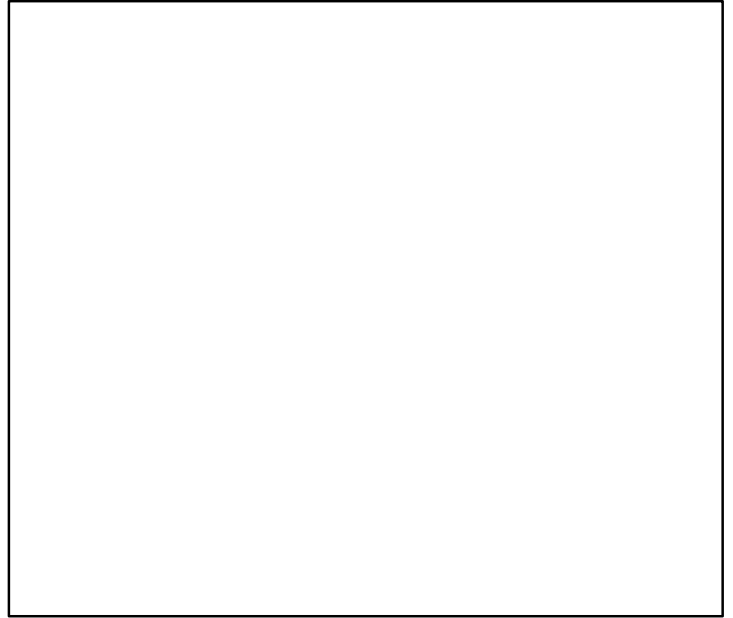
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

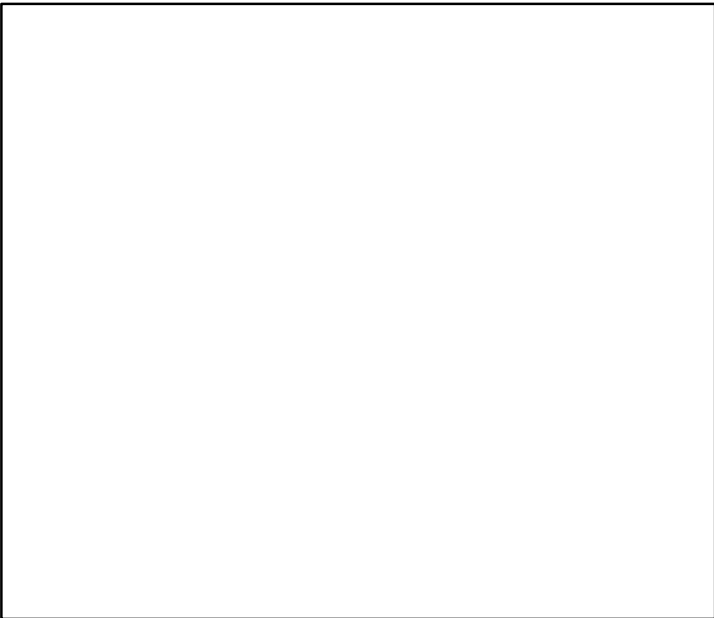
Kobe MSY*



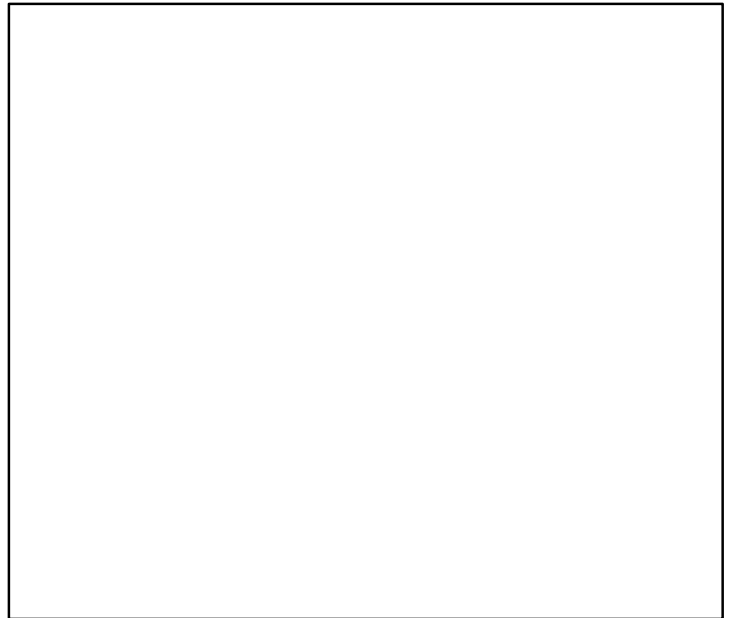
Kobe MGT*



Spawner Recruit*



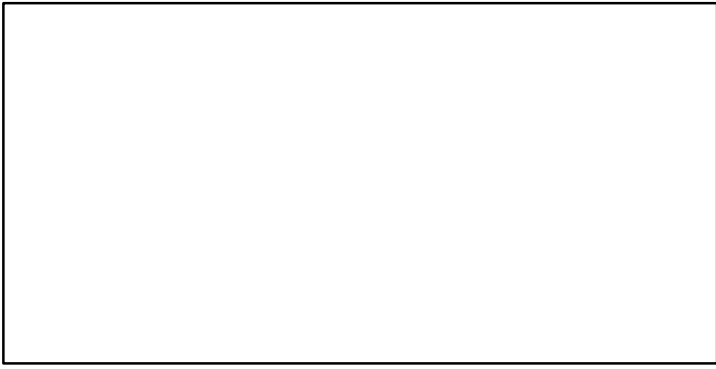
Production*



◆ Start Year ◆ End Year * No Data

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

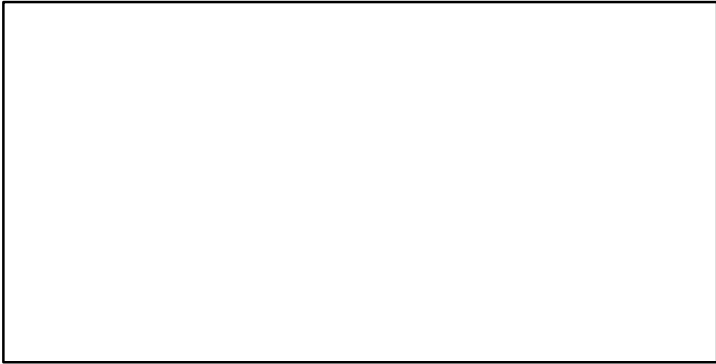
TB*



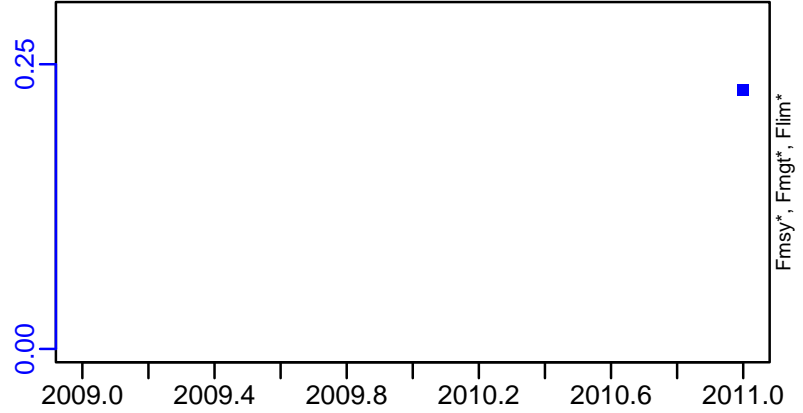
SSB*



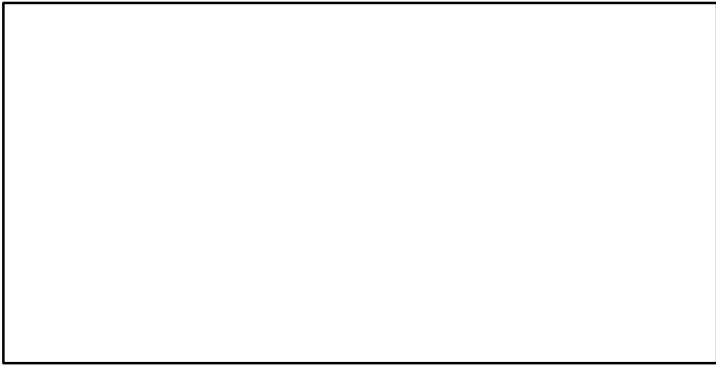
TN *



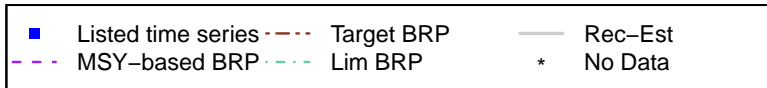
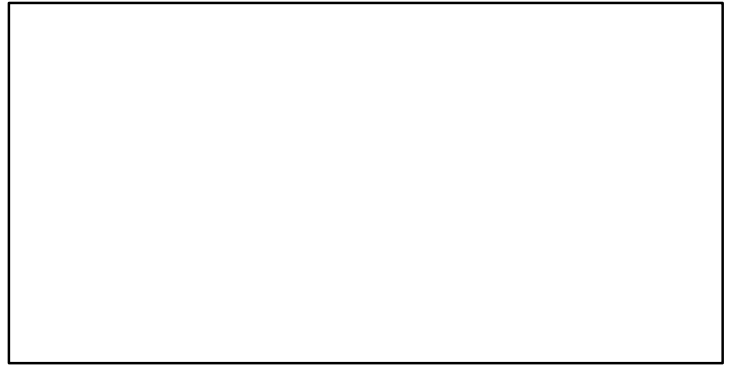
F-1/yr (2009-2011-BANOBI)



ER*



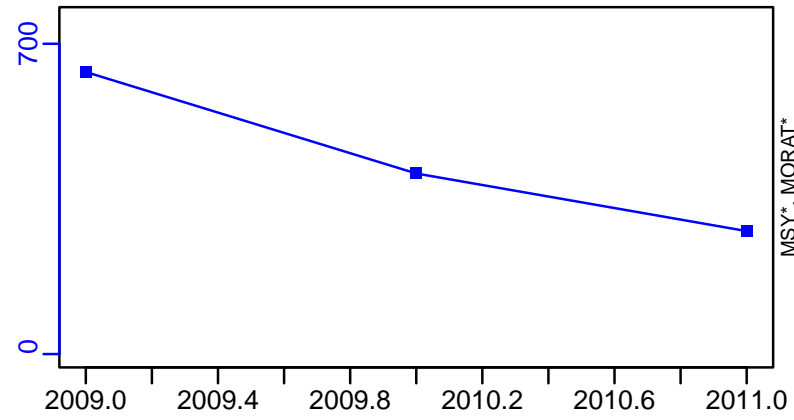
Recruits*



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

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

TAC*, Cpair*, Cadv*



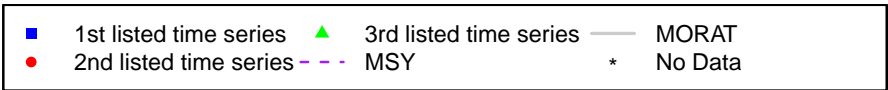
MSY*, MORAT*

survB*

CPUE*

EFFORT*

CdivMSY*



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

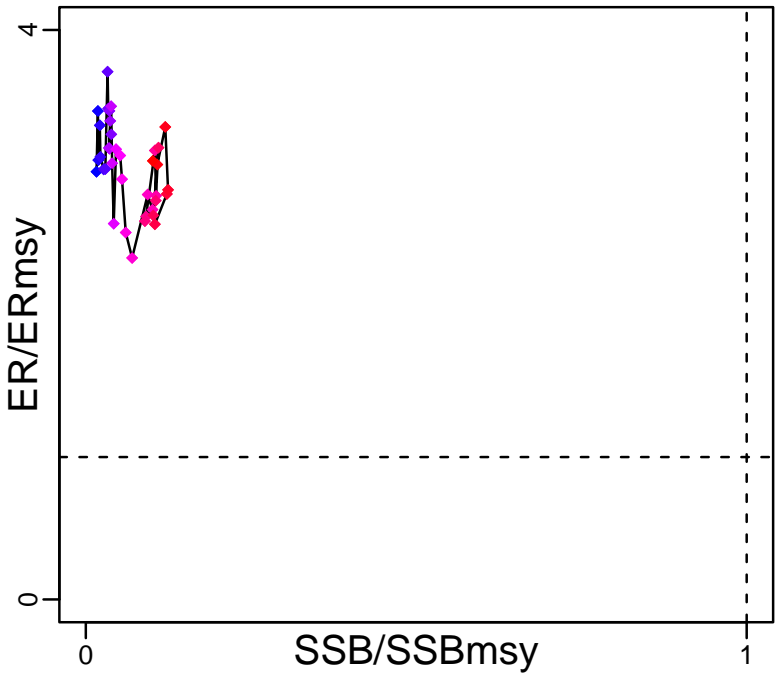
Metadata	
Scientific Name	Pagrus major
Current Assess ID	FAFRFJ-RBRMSETOE-1977-2013-JPNIMP2016
Area	Inland Sea of Japan (East)
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2010, 2013

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

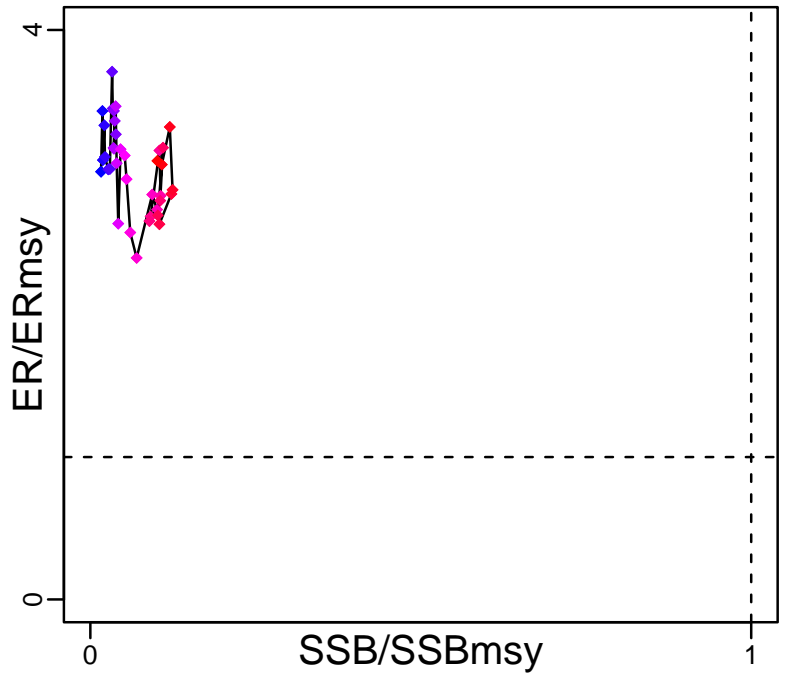
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	4030	-	0
SSB	SSB-MT	2013	1680	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,730,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.447	-	-
TC	TC-MT	2013	1800		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.188		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.101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

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

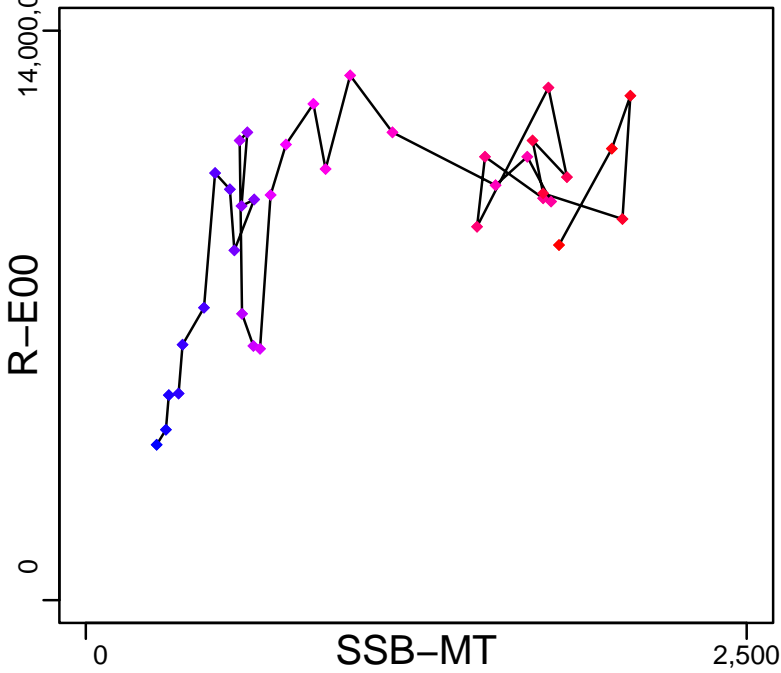
Kobe MSYpref (1977-2013-JPNIMP2016)



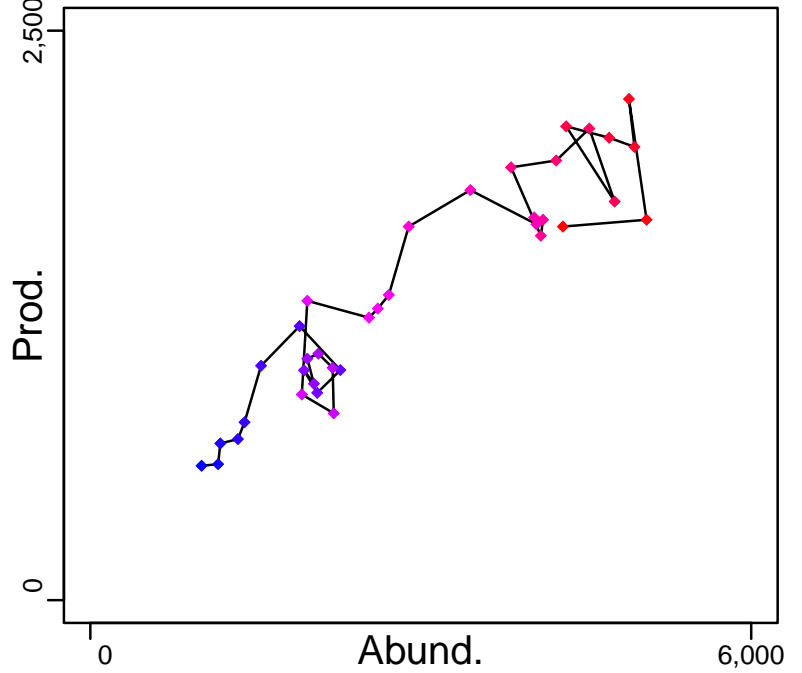
Kobe MGTpref (1977-2013-JPNIMP2016)



Spawner Recruit (1977-2013-JPNIMP2016)



Production (1977-2013-JPNIMP2016)

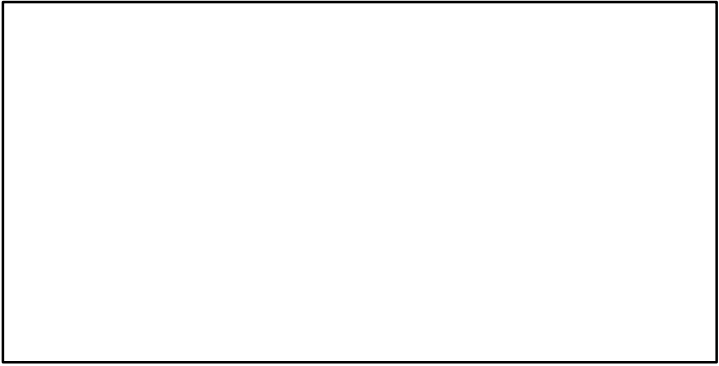
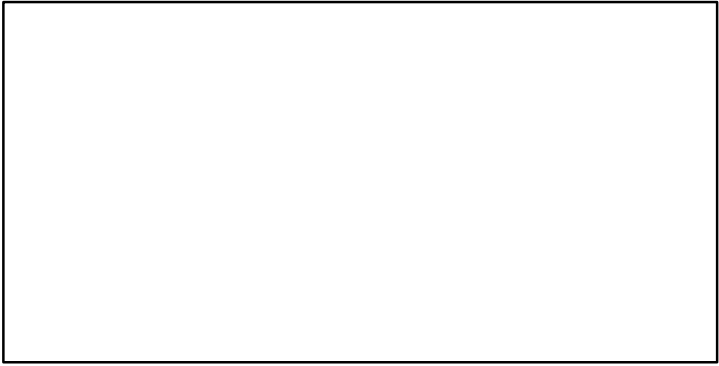
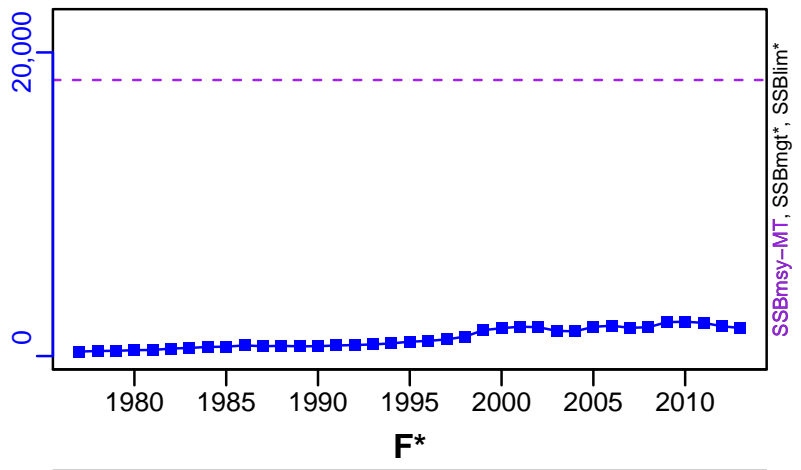
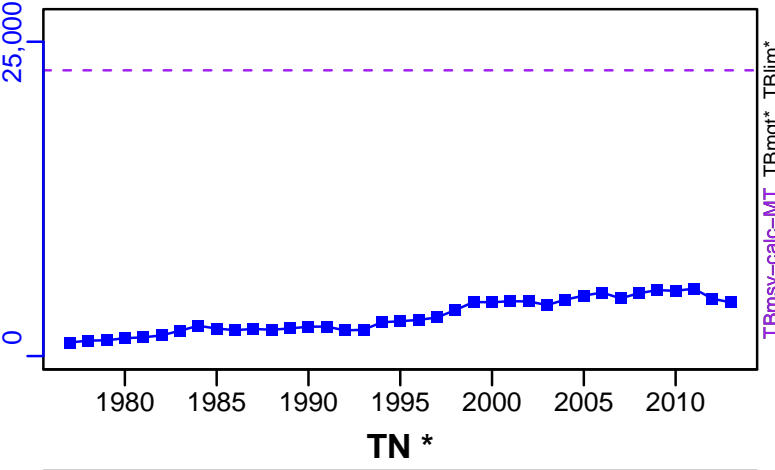


◆ Start Year ◆ End Year * No Data

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

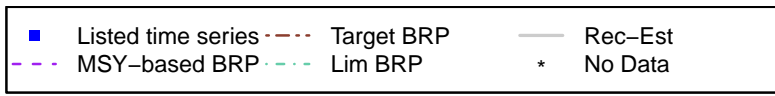
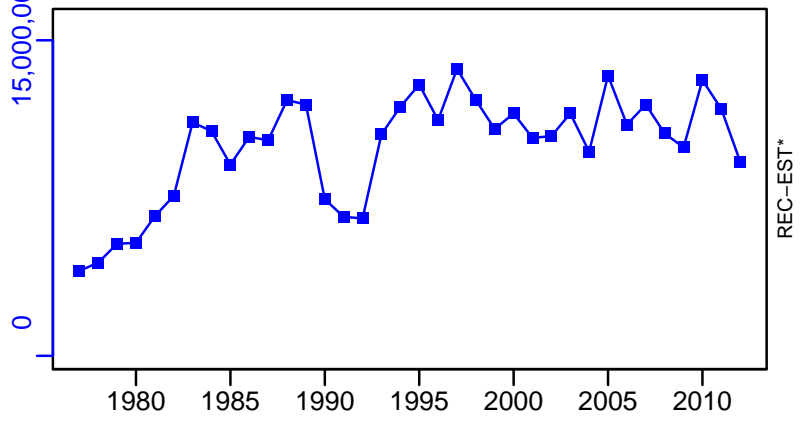
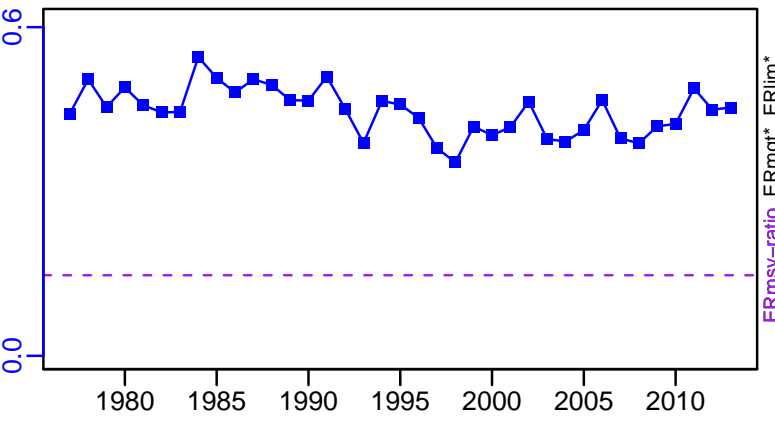
TB-MT (1977-2013-JPNIMP2016)

SSB-MT (1977-2013-JPNIMP2016)



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

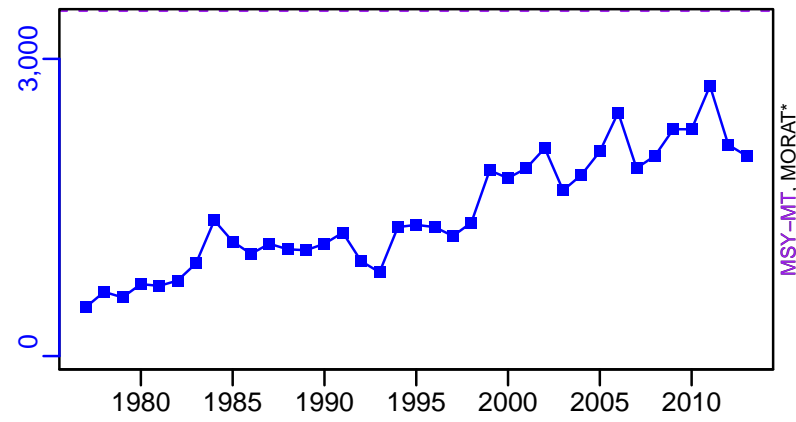
R-E00 (1977-2013-JPNIMP2016)



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

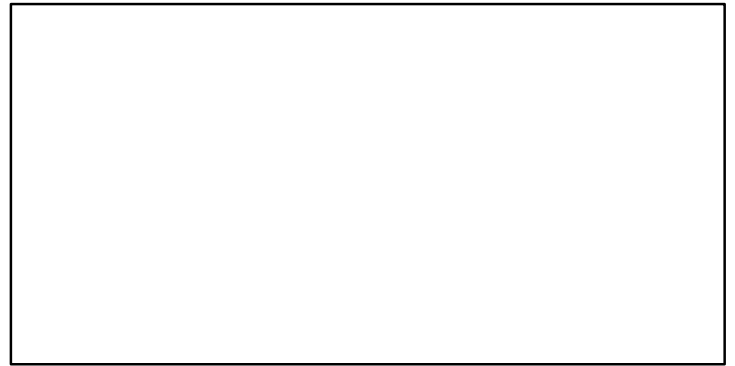
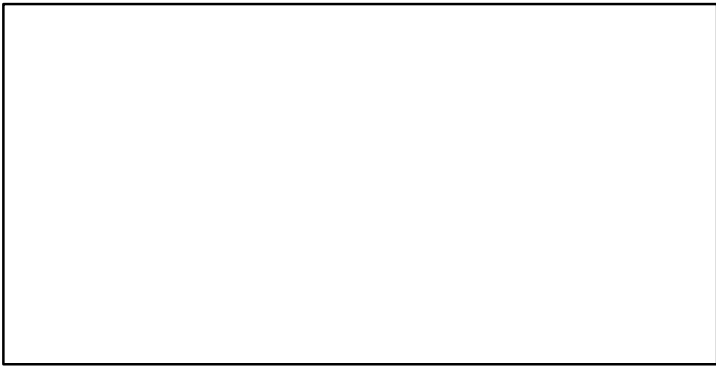
TC-MT, TL*, RecC* (1977-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



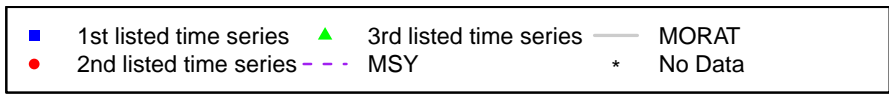
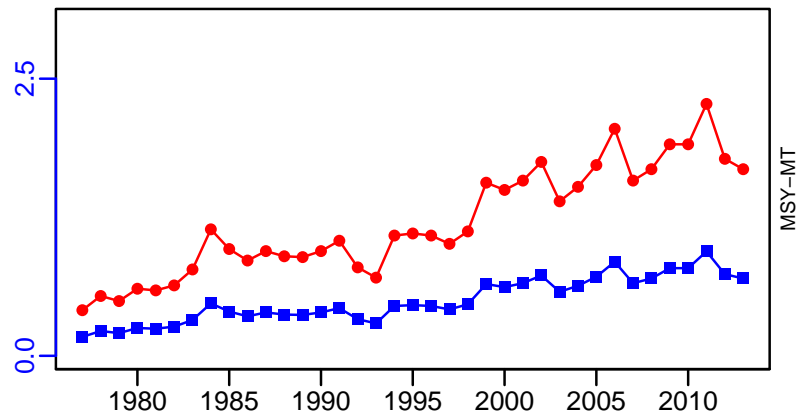
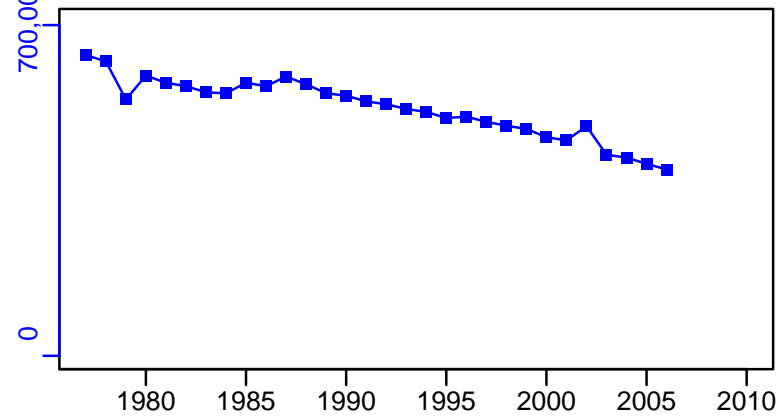
survB*

CPUE*



EFFORT-nominal (1977-2010-ONO)

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



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

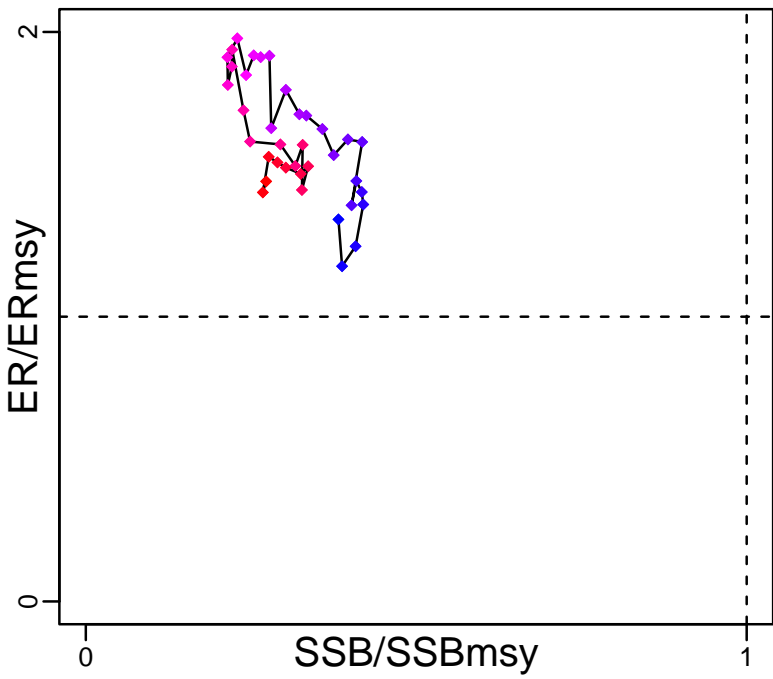
Metadata	
Scientific Name	Pagrus major
Current Assess ID	FAFRFJ-RBRMSETOW-1977-2013-JPNIMP2016
Area	Inland Sea of Japan (West)
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2010, 2013

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

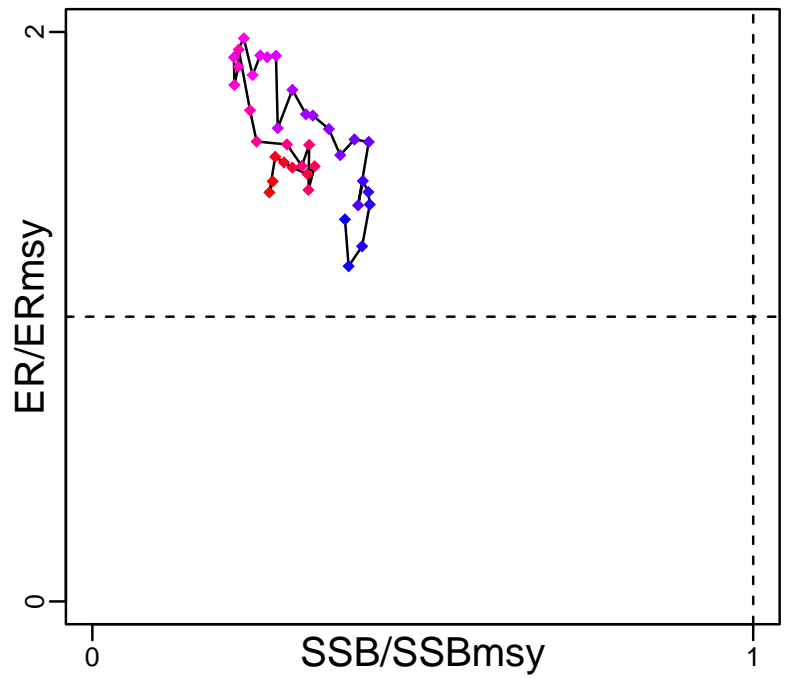
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	8620	-	0
SSB	SSB-MT	2013	4940	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,300,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.255	-	-
TC	TC-MT	2013	2200		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.357		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.273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

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

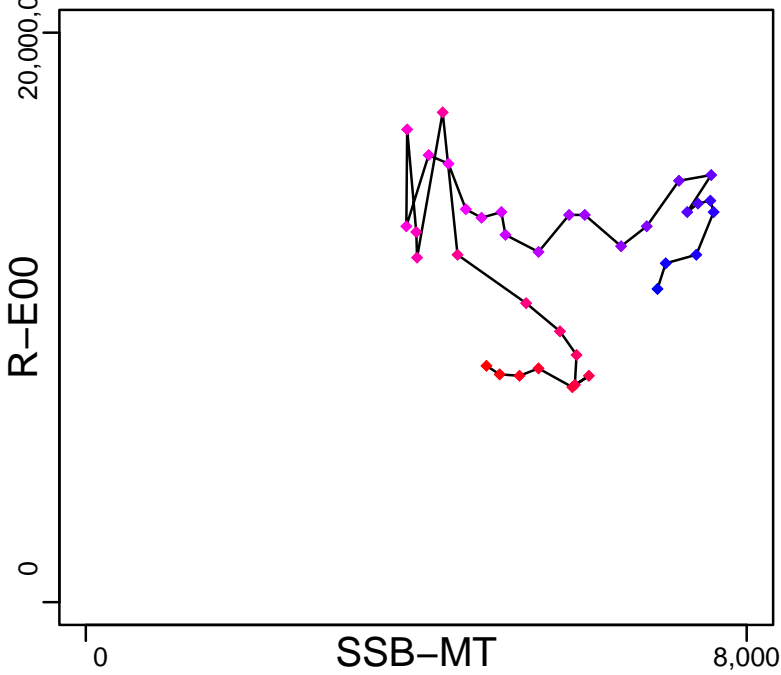
Kobe MSYpref (1977-2013-JPNIMP2016)



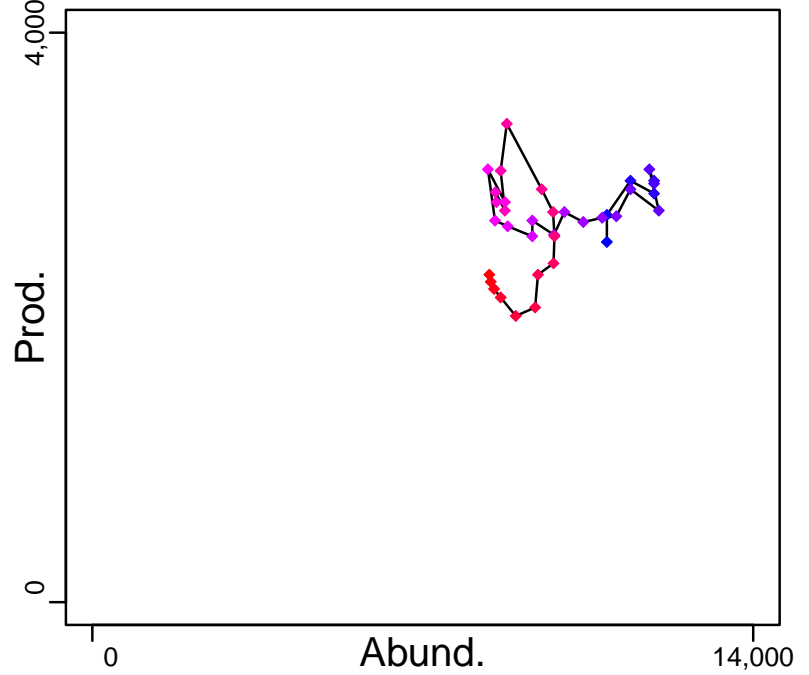
Kobe MGTpref (1977-2013-JPNIMP2016)



Spawner Recruit (1977-2013-JPNIMP2016)



Production (1977-2013-JPNIMP2016)

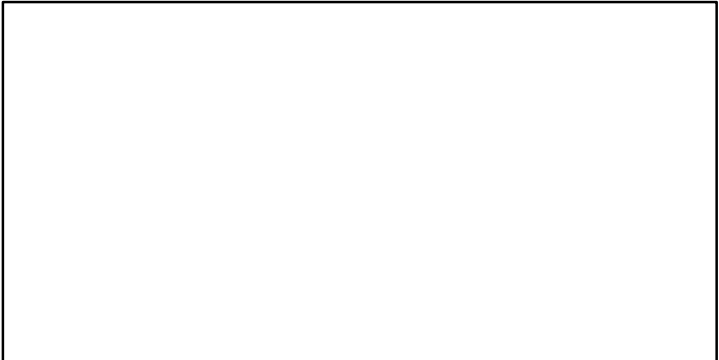
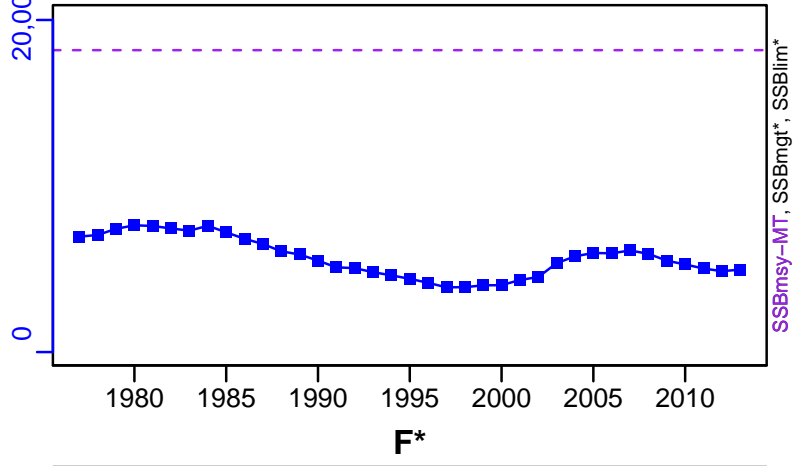
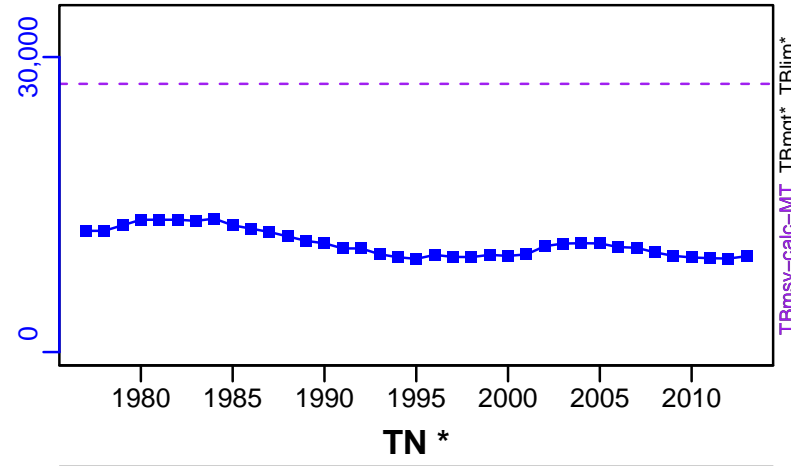


◆ Start Year ◆ End Year * No Data

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

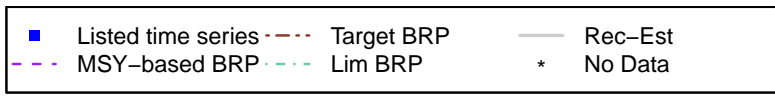
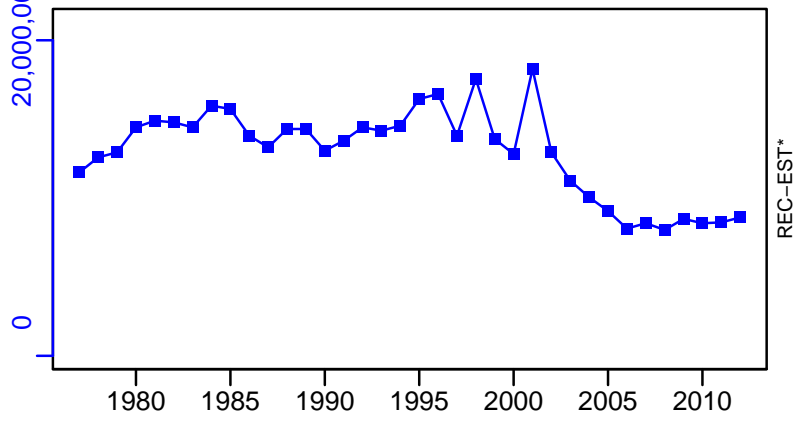
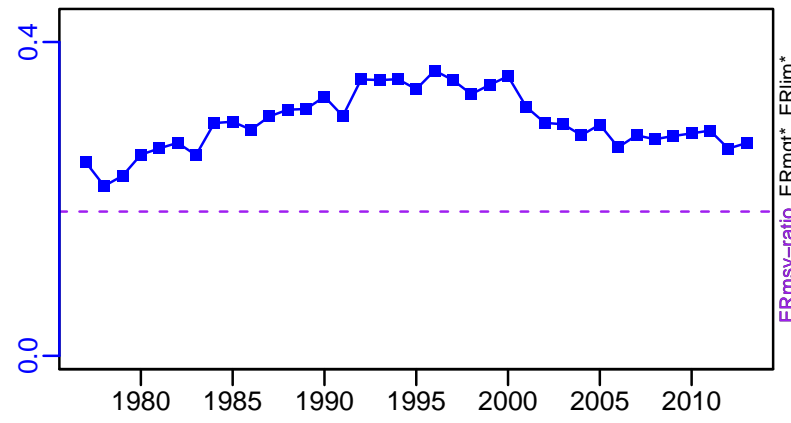
TB-MT (1977-2013-JPNIMP2016)

SSB-MT (1977-2013-JPNIMP2016)



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

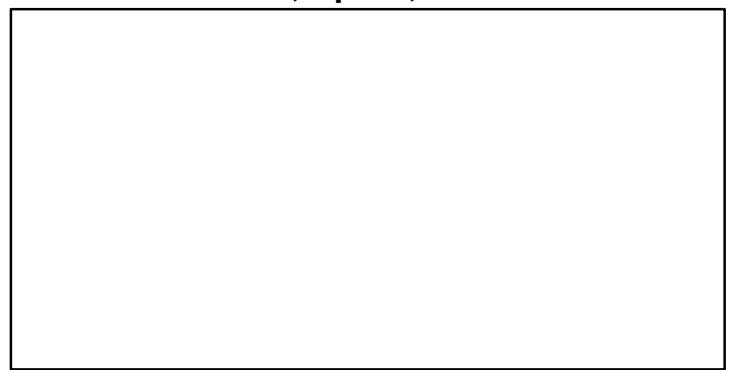
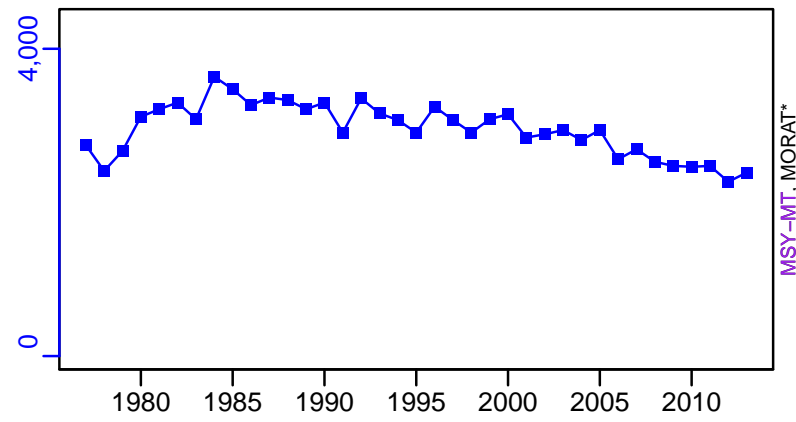
R-E00 (1977-2013-JPNIMP2016)



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

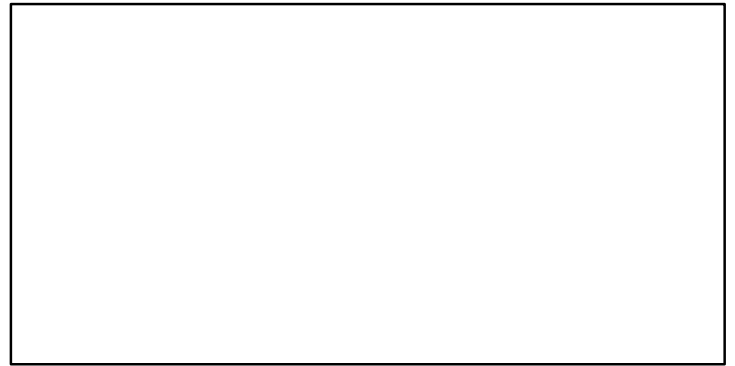
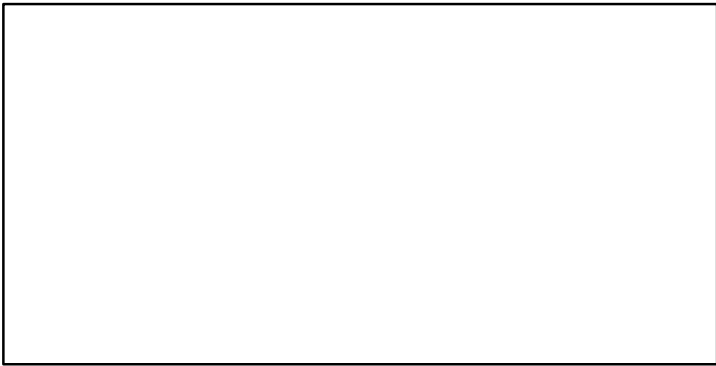
TC-MT, TL*, RecC* (1977-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



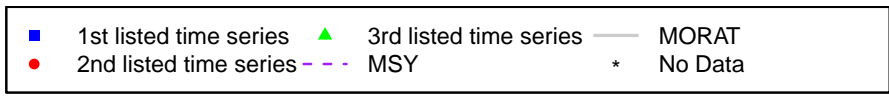
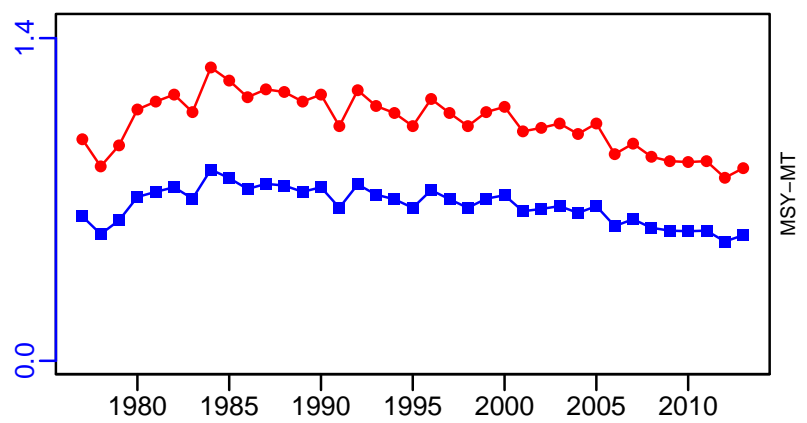
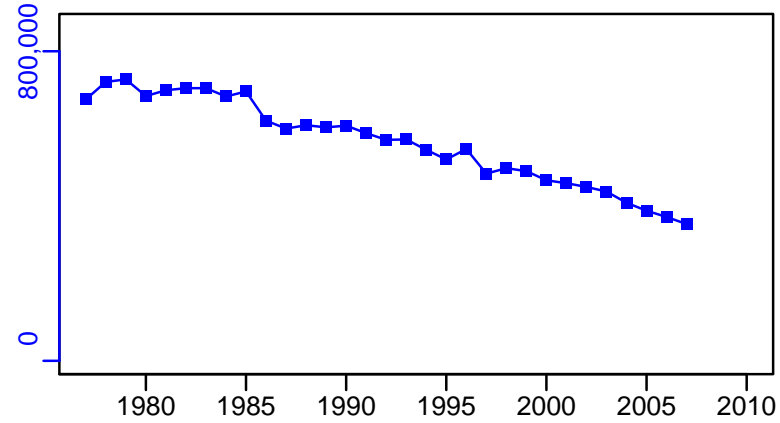
survB*

CPUE*



EFFORT-nominal (1977-2010-ONO)

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



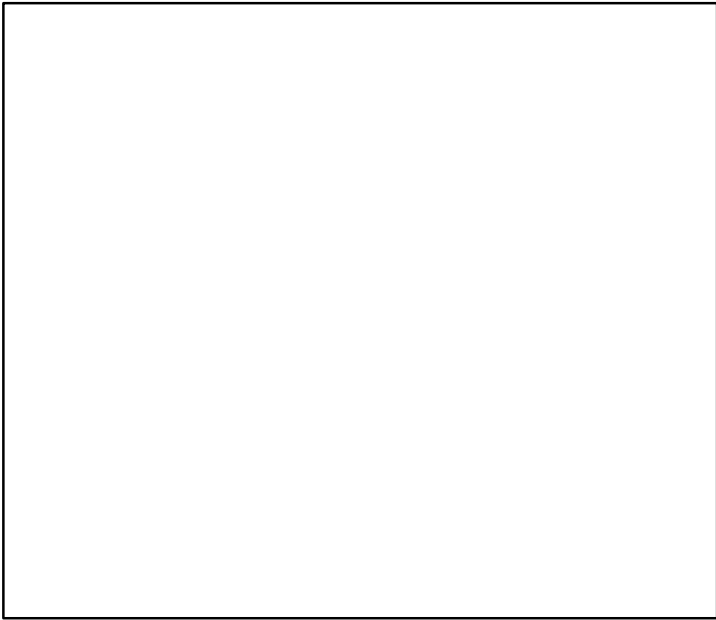
Red seabream ICES 6-7-8 [RBRMVI-VII-VIII]

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

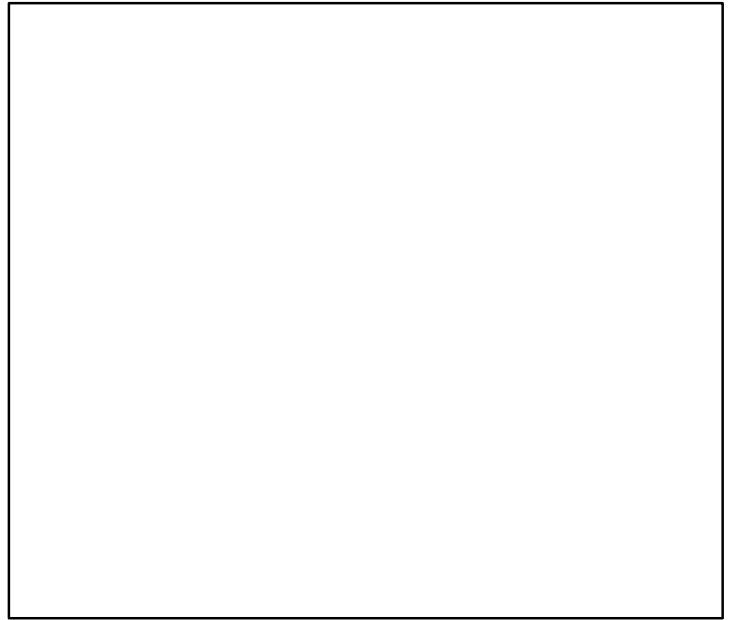
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

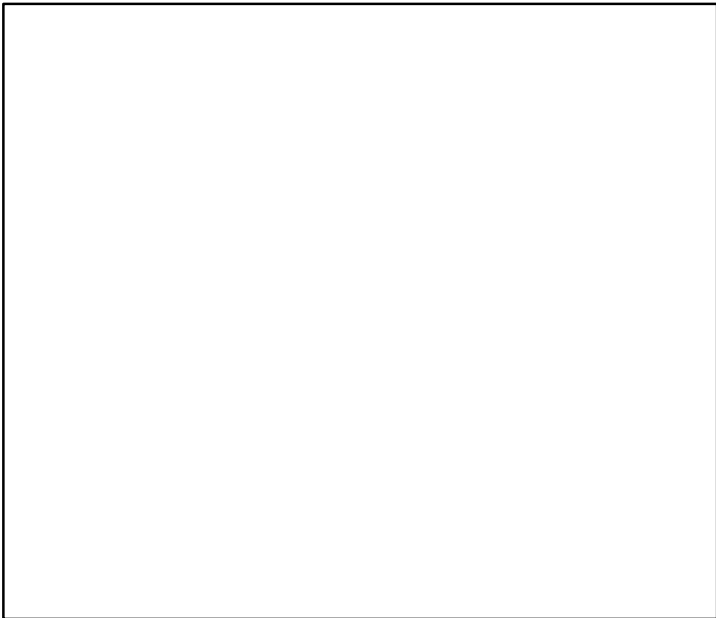
Kobe MSY*



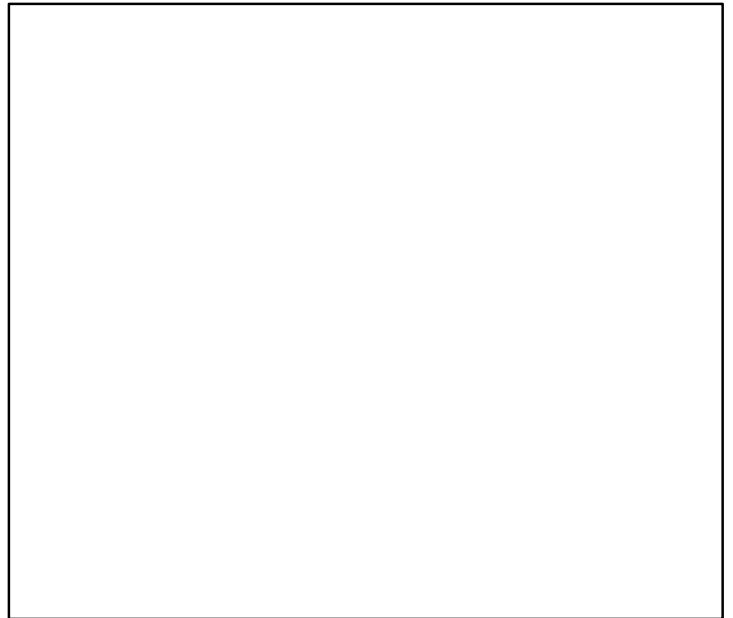
Kobe MGT*



Spawner Recruit*



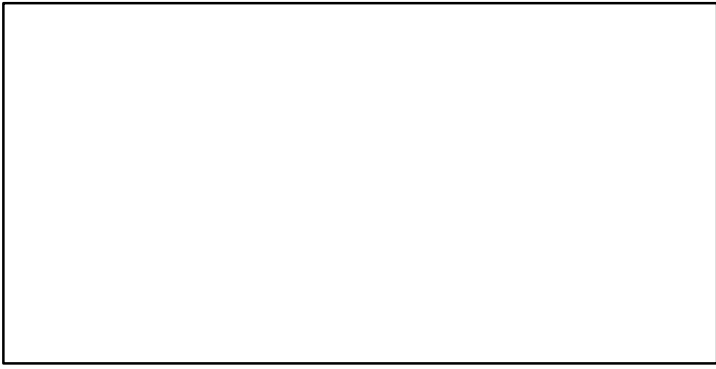
Production*



◆ Start Year ◆ End Year * No Data

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

TB*



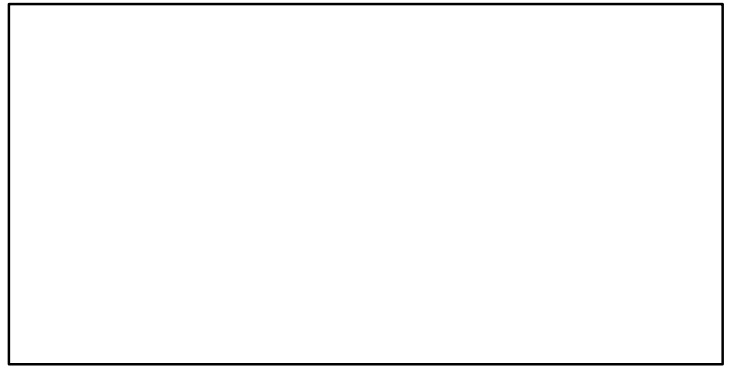
SSB*



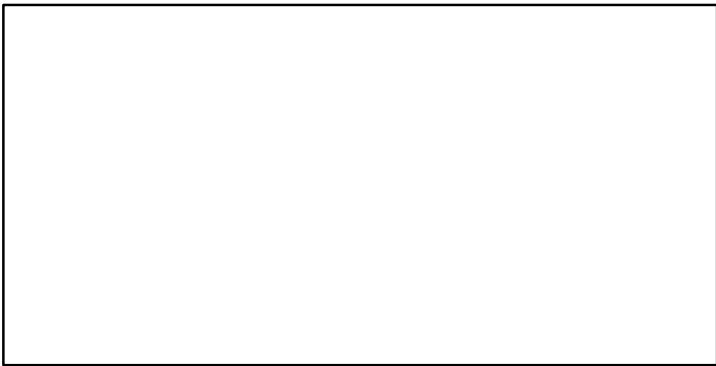
TN *



F*



ER*



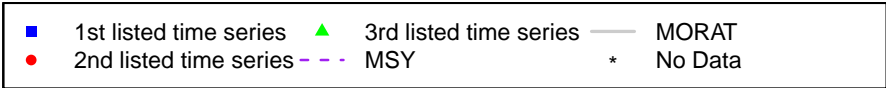
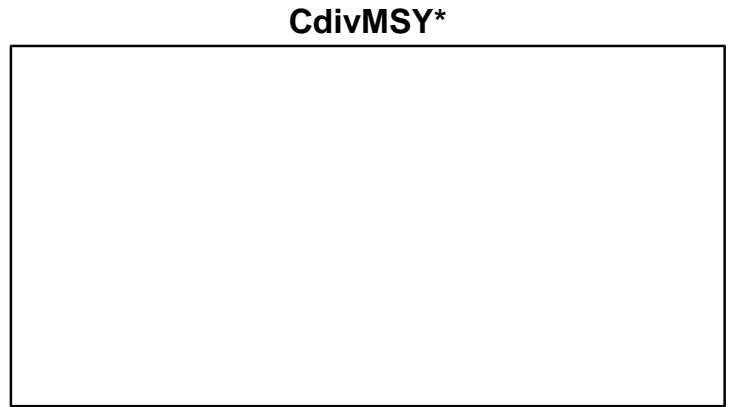
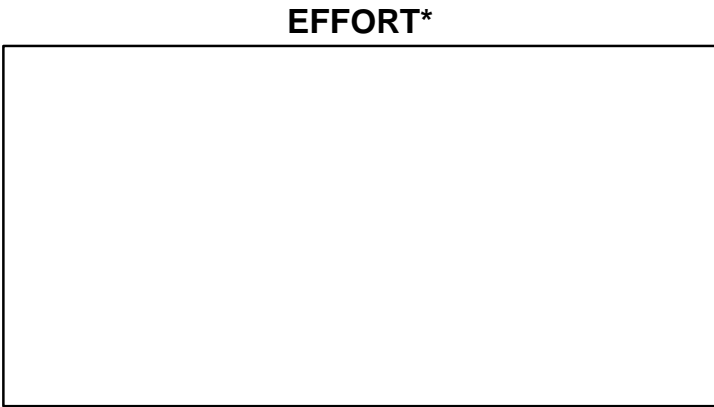
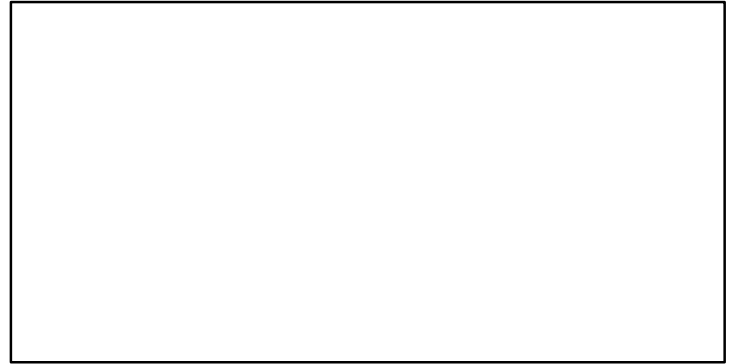
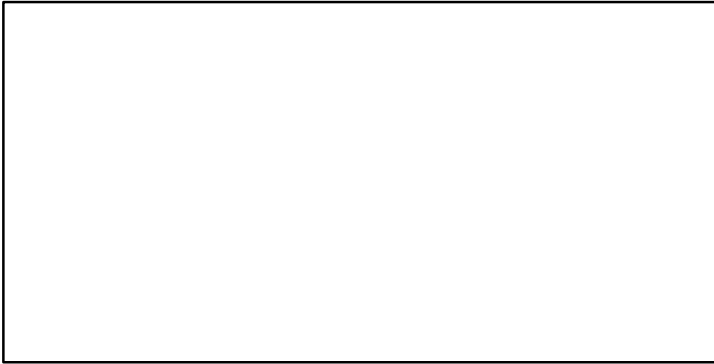
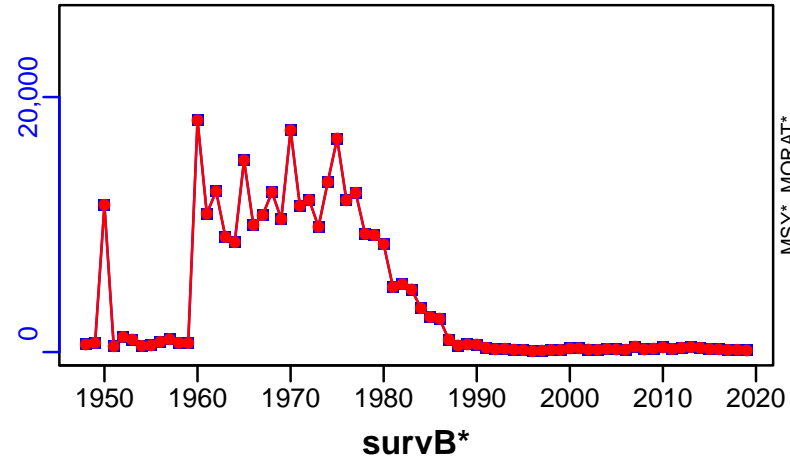
Recruits*



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

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

TAC*, Cpair*, Cadv*



Red seabream Azores Grounds [RBRMX]

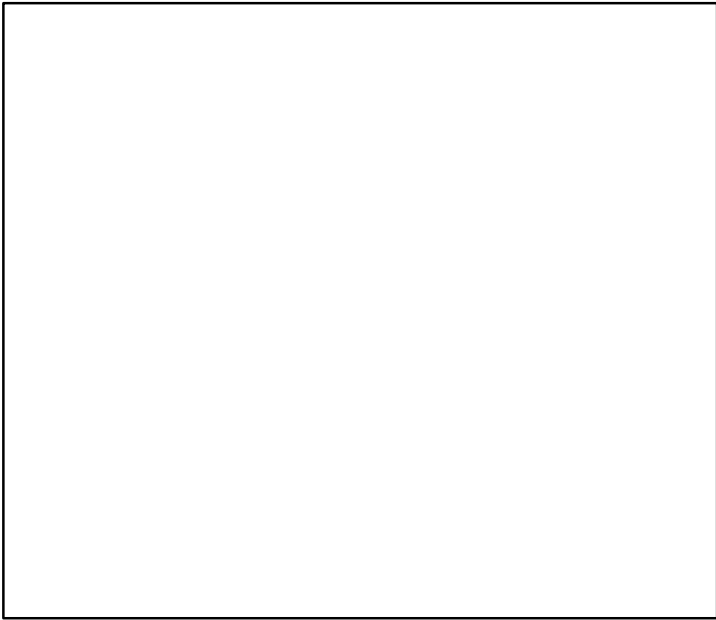
Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMX-1980-2020-ICESIMP2021-2
Area	Azores Grounds
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2016,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

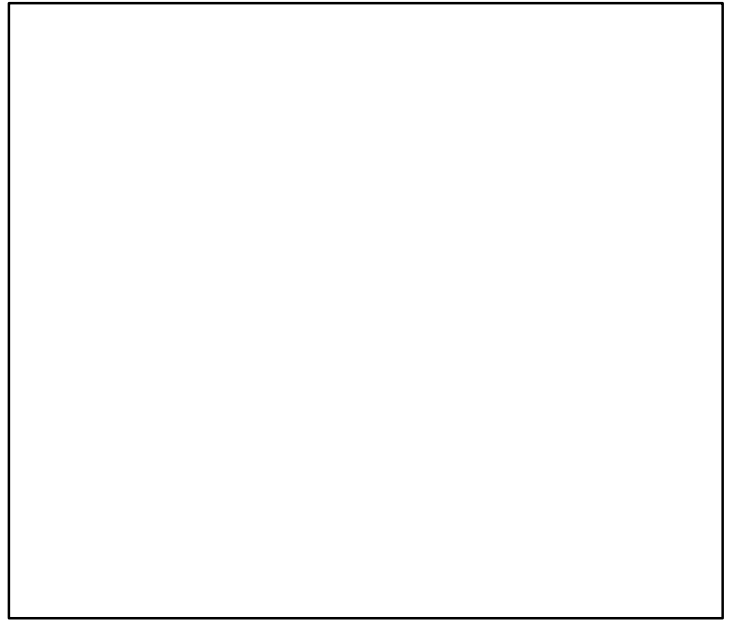
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	445		
TL	TL-MT	2020	491		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-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

Red seabream Azores Grounds [RBRMX]

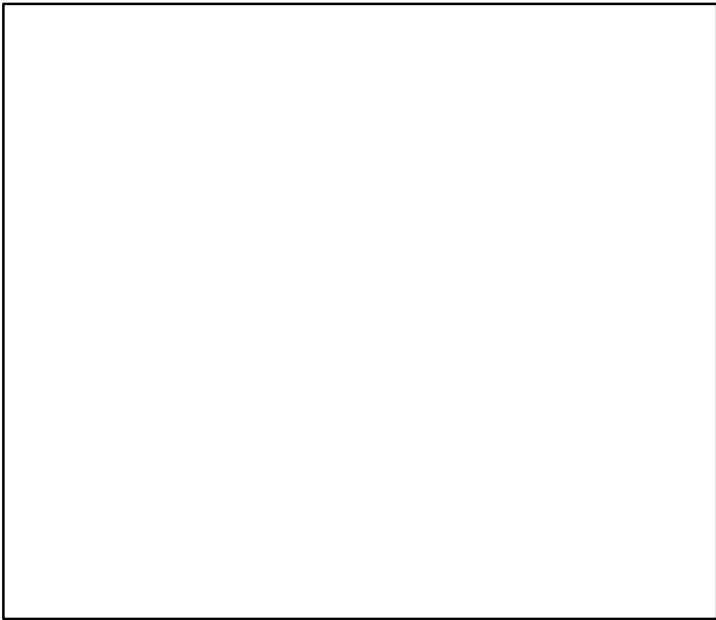
Kobe MSY*



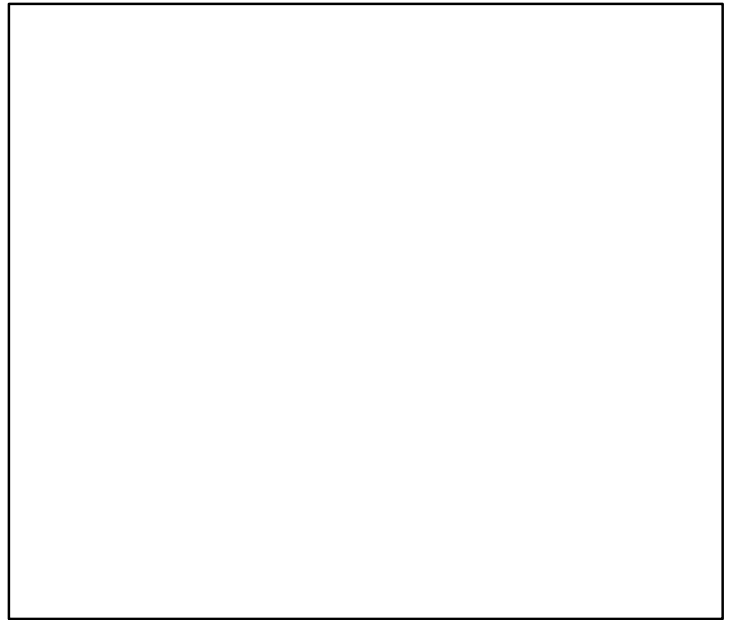
Kobe MGT*



Spawner Recruit*



Production*



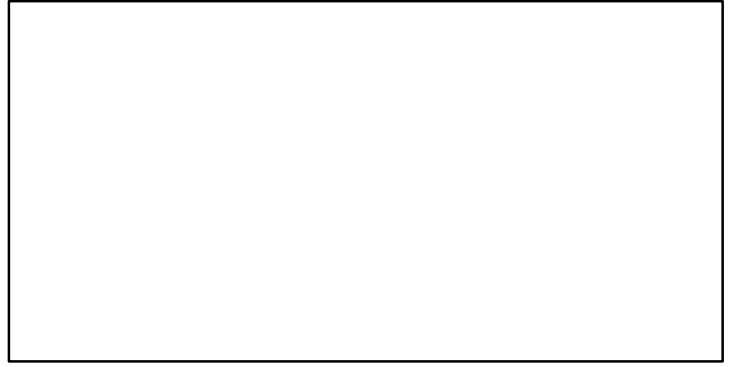
◆ Start Year ◆ End Year * No Data

Red seabream Azores Grounds [RBRMX]

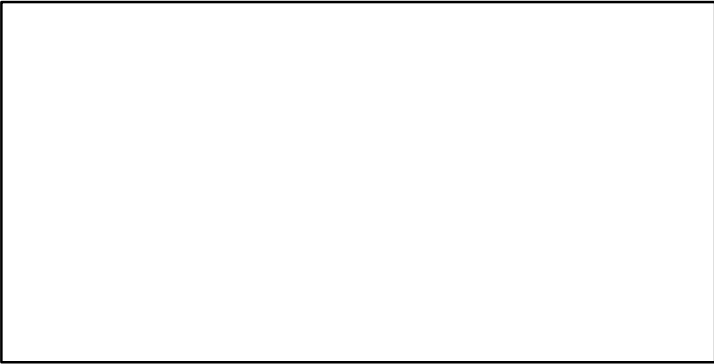
TB*



SSB*



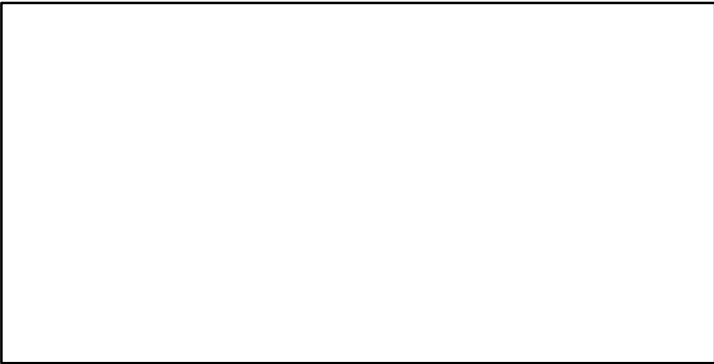
TN *



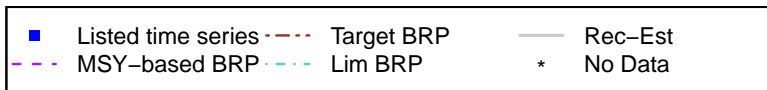
F*



ER*

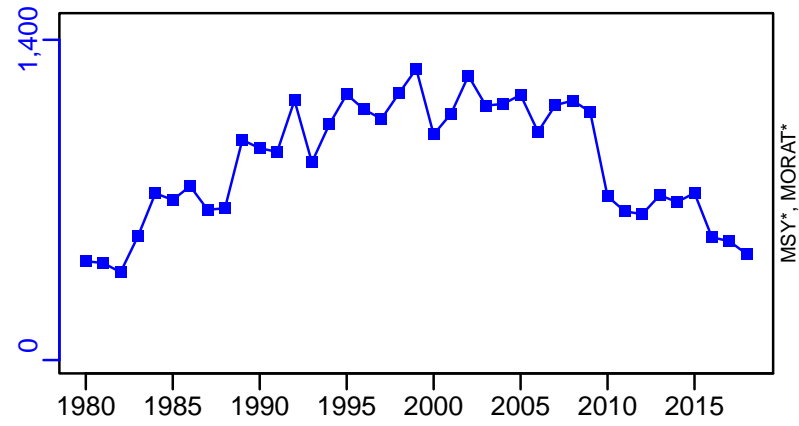


Recruits*

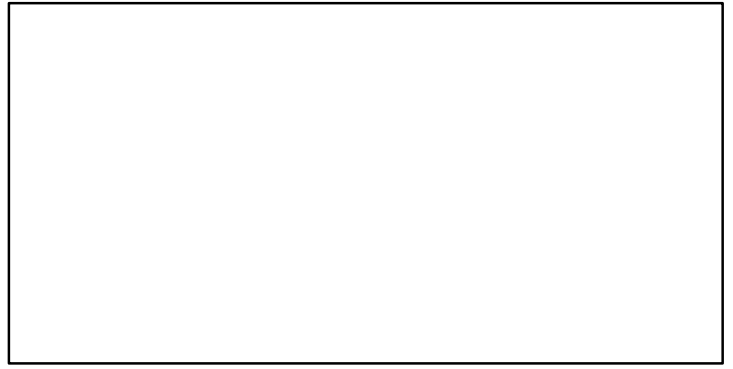


Red seabream Azores Grounds [RBRMX]

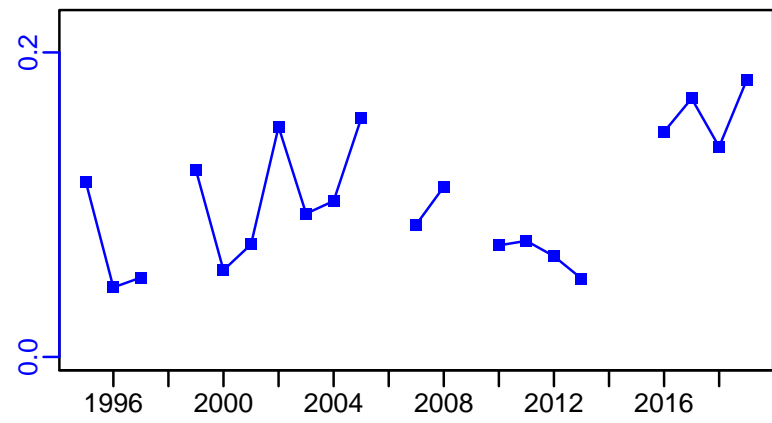
TC-MT, TL*, RecC* (1980-2018-ICESIMP2021)



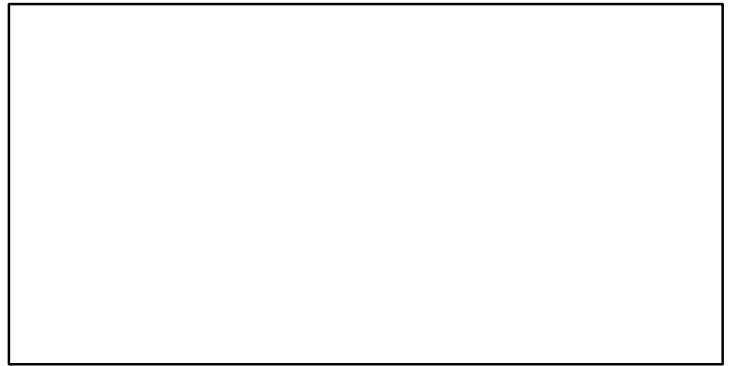
TAC*, Cpair*, Cadv*



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



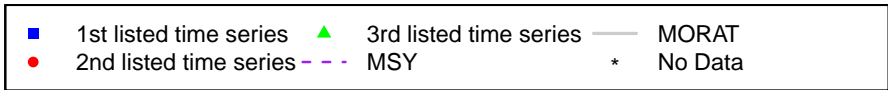
CPUE*



EFFORT*



CdivMSY*



Red grouper Gulf of Mexico [RGROUPGM]

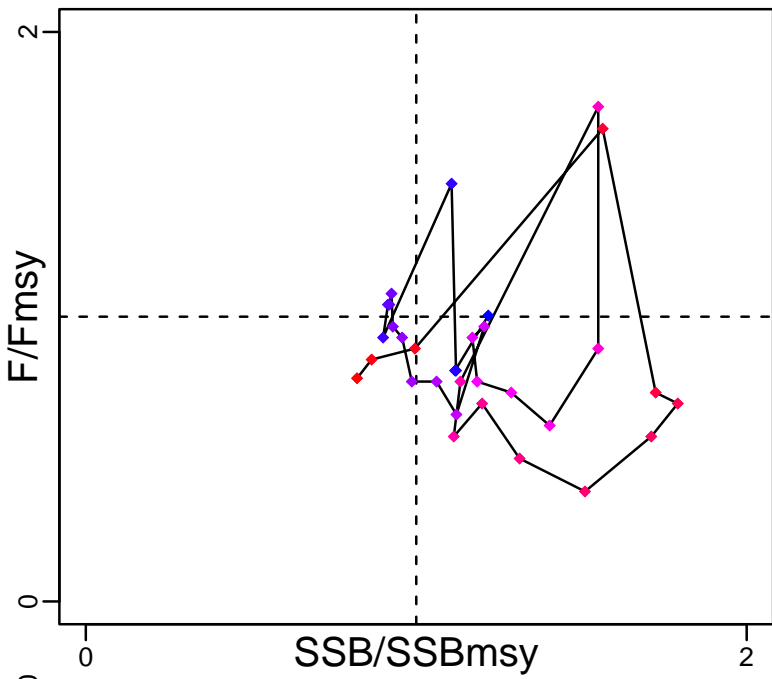
Metadata	
Scientific Name	Epinephelus morio
Current Assess ID	SEFSC-RGROUPGM-1963-2017-SISIMP2021-2
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2017, 2005, 2013

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

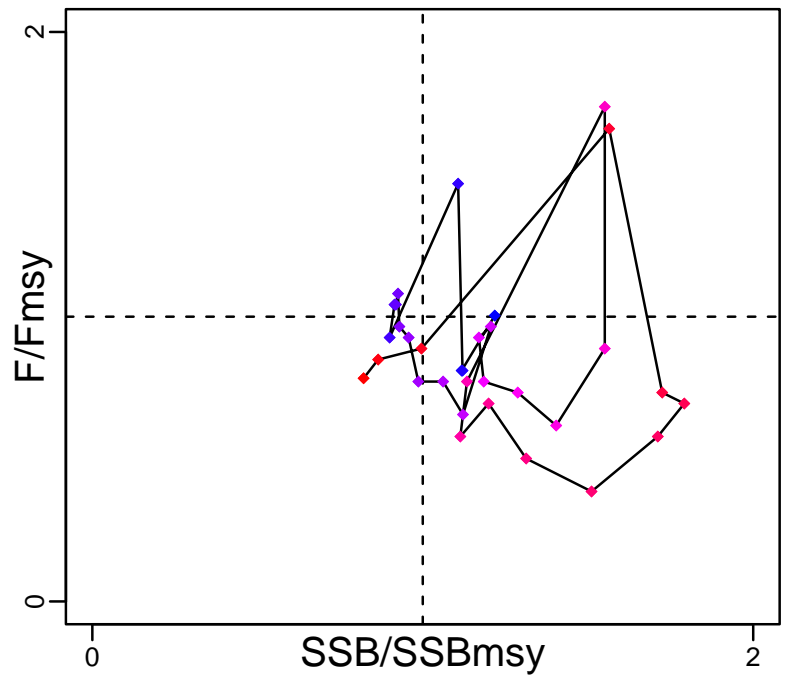
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	46,500	-	0+
SSB	SSB-E00eggs	2017	6.14×10^8	-	-
TN	-	-	-	-	-
R	R-E00	2017	14,200,000	-	0
F	F-1/yr	2017	0.203	-	-
ER	ER-ratio	2013	0.126	-	-
TC	TC-MT	2017	1510		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	1.51		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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

Red grouper Gulf of Mexico [RGROUPGM]

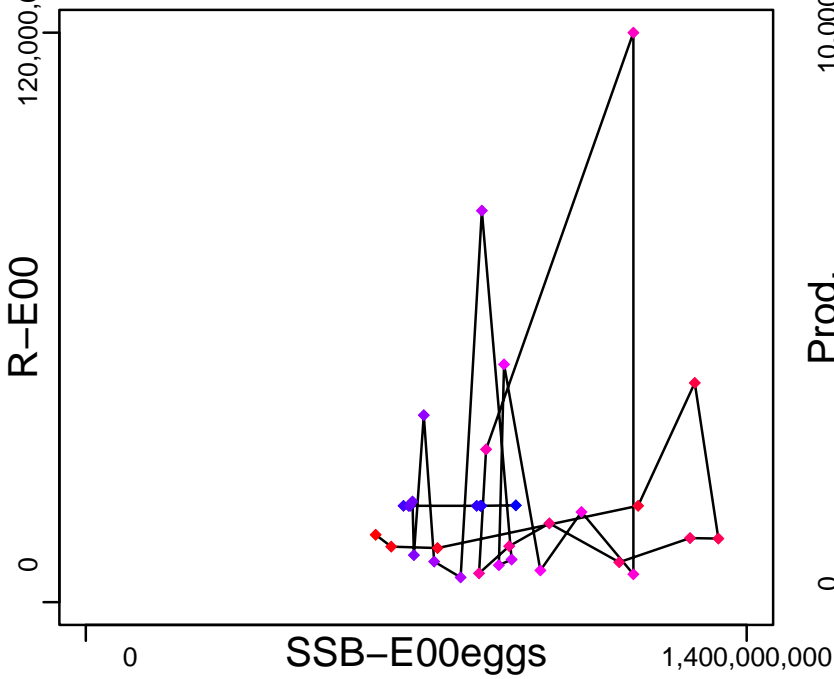
Kobe MSYpref (1963–2017–SISIMP2021–2)



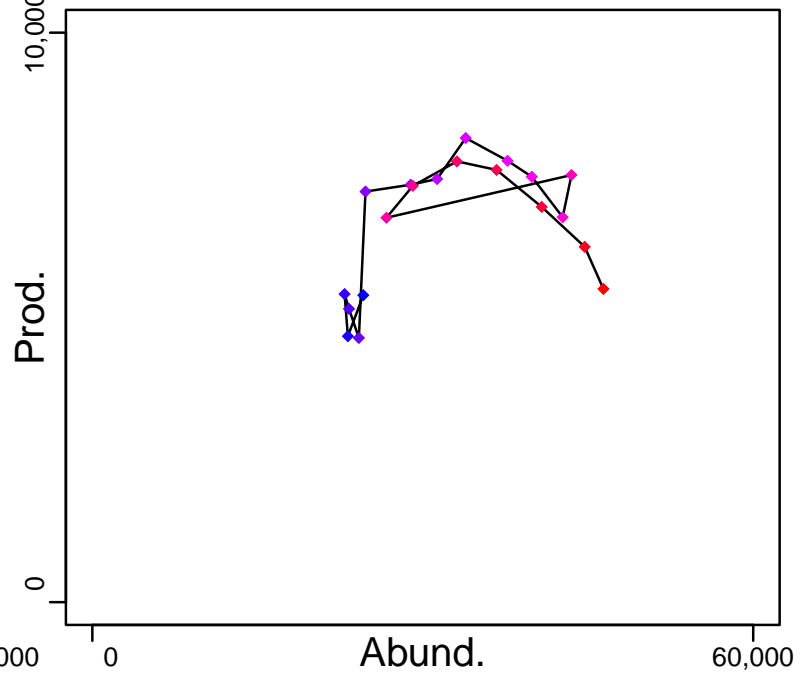
Kobe MGTpref (1963–2017–SISIMP2021–2)



Spawner Recruit (1963–2017–SISIMP2021–2)



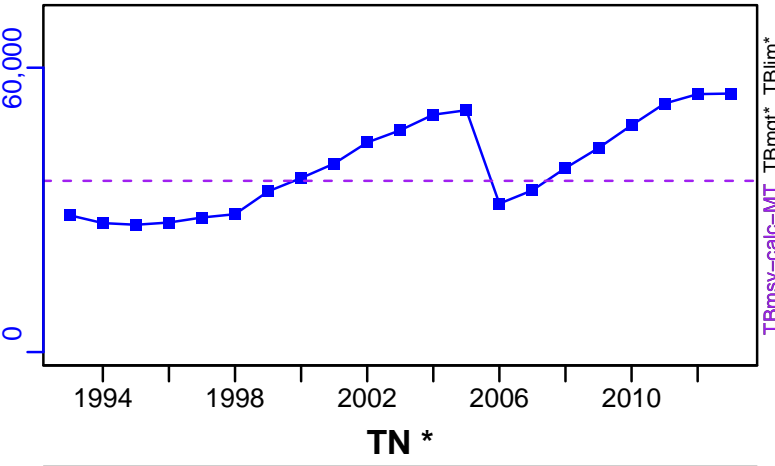
Production (1993–2013–SISIMP2016)



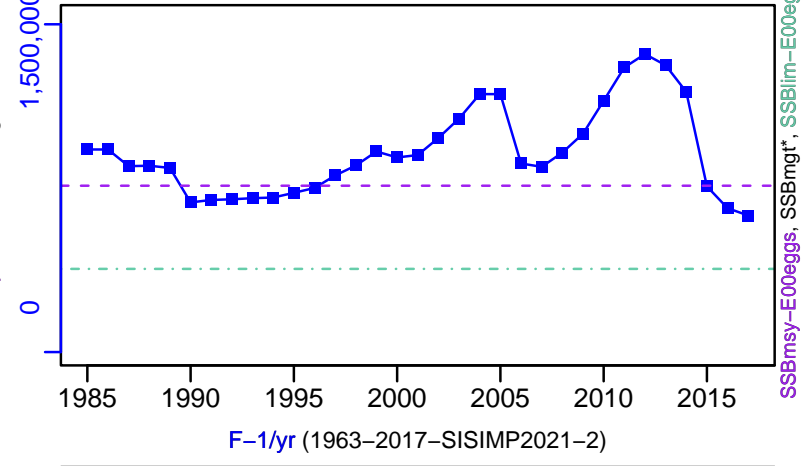
◆ Start Year ◆ End Year * No Data

Red grouper Gulf of Mexico [RGROUPGM]

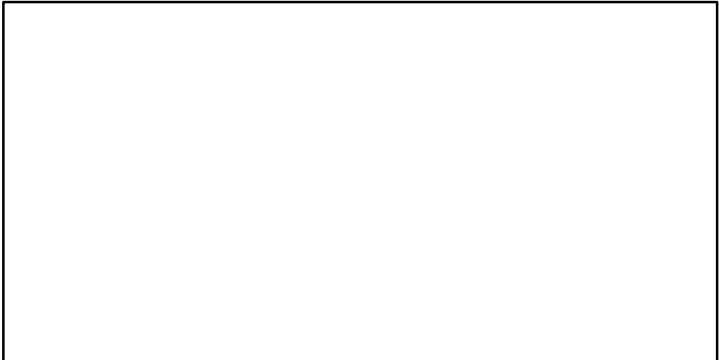
TB-MT (1993-2013-SISIMP2016)



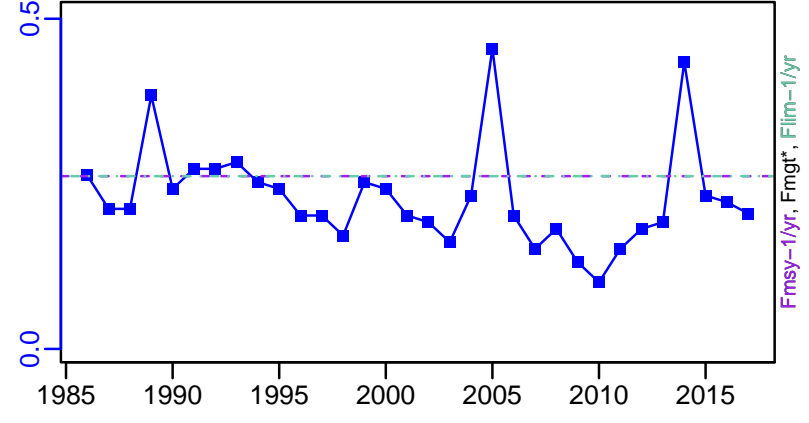
SSB-E00eggs (1963-2017-SISIMP2021-2)



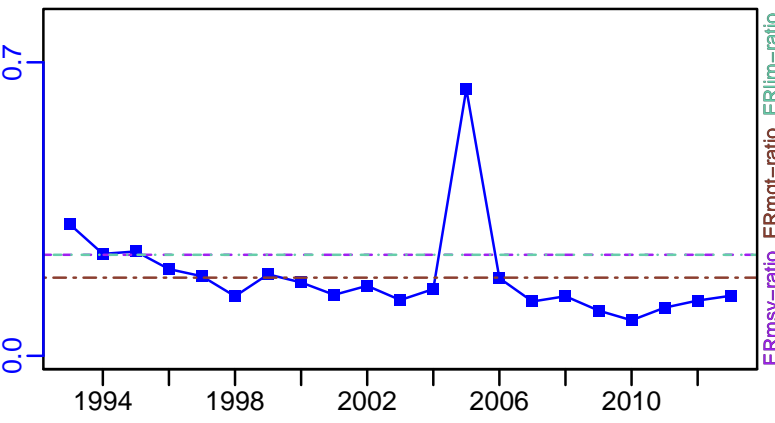
TN *



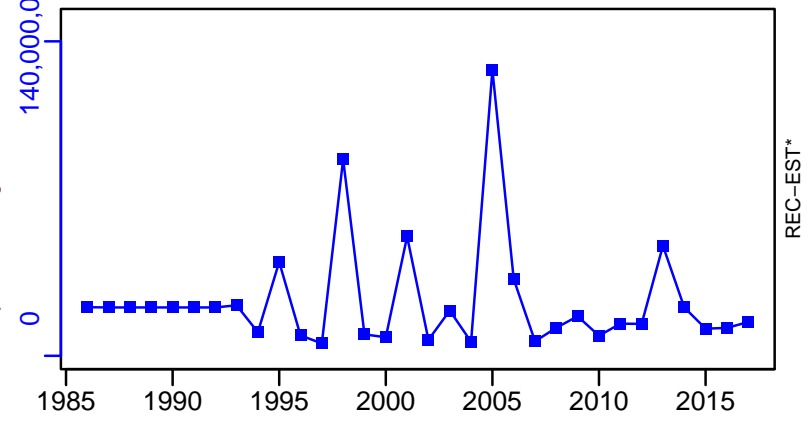
F-1/yr (1963-2017-SISIMP2021-2)



ER-ratio (1993-2013-SISIMP2016)



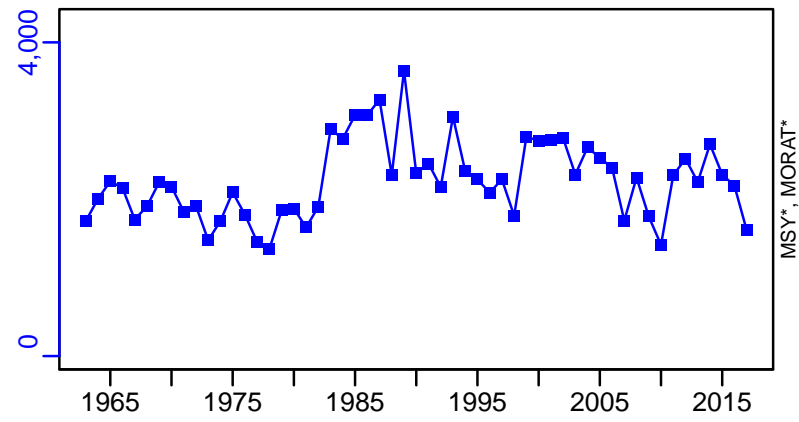
R-E00 (1963-2017-SISIMP2021-2)



Red grouper Gulf of Mexico [RGROUPGM]

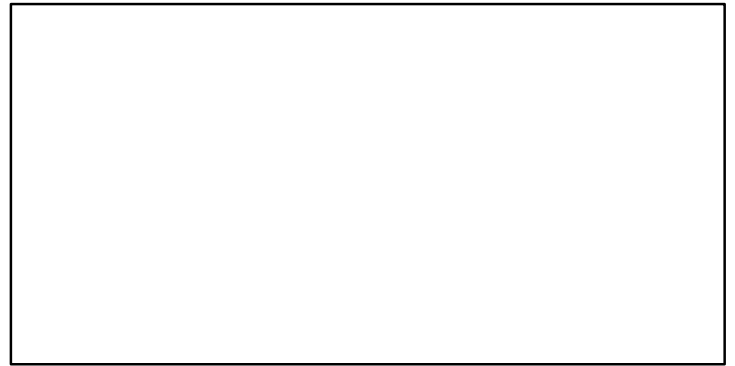
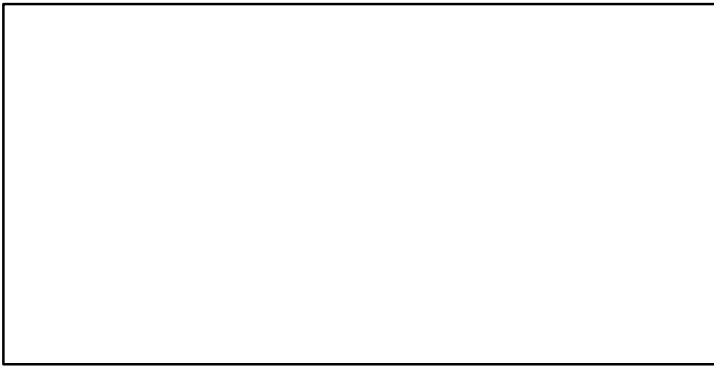
TC-MT, TL*, RecC* (1963-2017-SISIMP2021-2)

TAC*, Cpair*, Cadv*



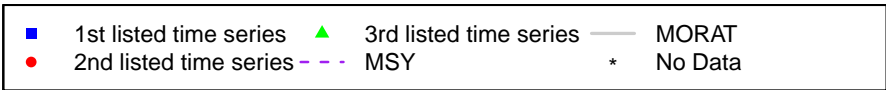
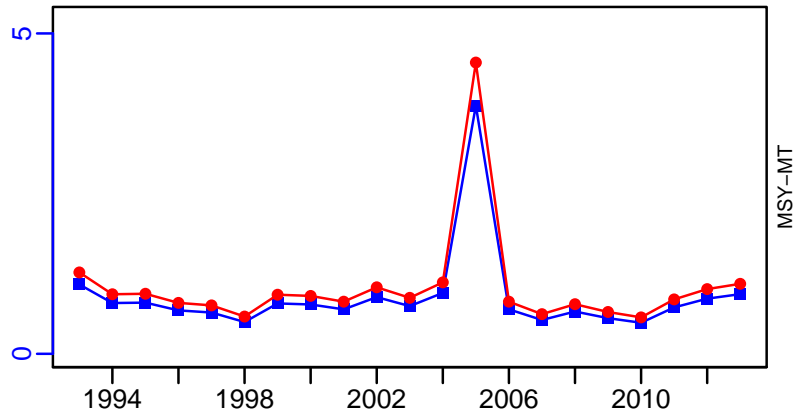
survB*

CPUE*



EFFORT*

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



Red grouper South Atlantic [RGROUPSATL]

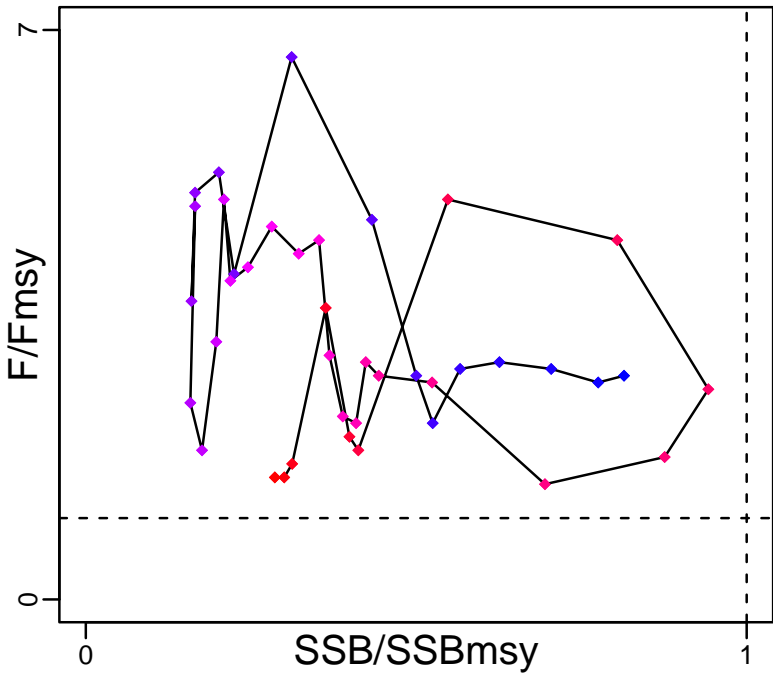
Metadata	
Scientific Name	Epinephelus morio
Current Assess ID	SEFSC-RGROUPSATL-1975-2015-SISIMP2021
Area	South Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2015, 2009

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

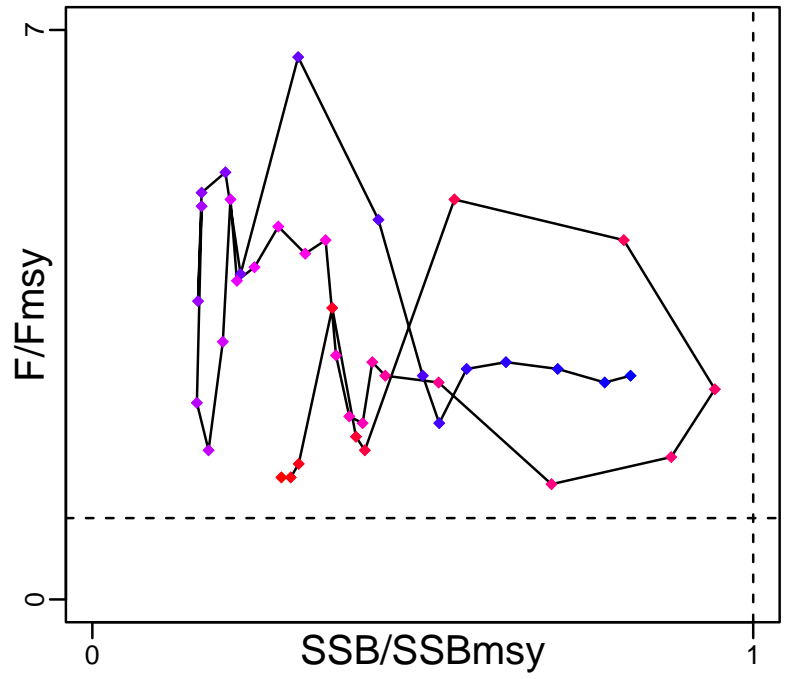
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	2760	-	-
SSB	SSB-MT	2015	911	-	-
TN	-	-	-	-	-
R	R-E00	2015	151,485	-	1
F	F-1/yr	2015	0.18	-	-
ER	ER-calc-ratio	2009	0.222	-	-
TC	TC-MT	2009	665		
TL	TL-MT	2009	647		
TB/TBmsy	TB-MT/TBmsy-MT	2009	0.75		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015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

Red grouper South Atlantic [RGROUPSATL]

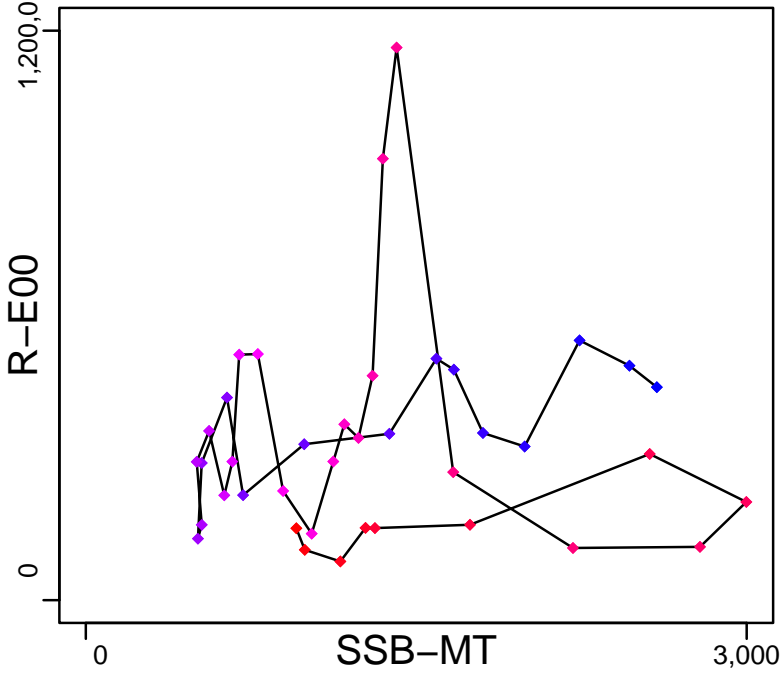
Kobe MSYpref (1975–2015–SISIMP2021)



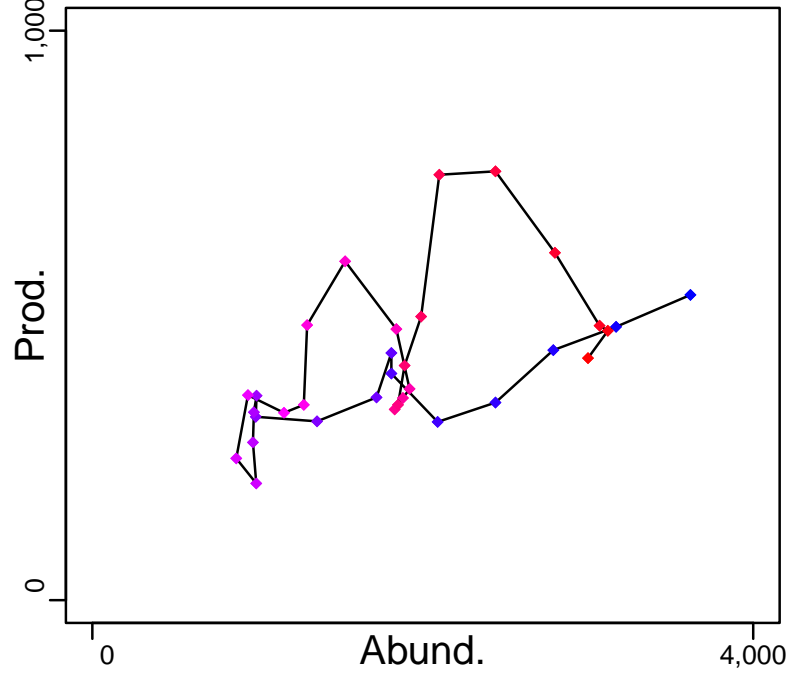
Kobe MGTpref (1975–2015–SISIMP2021)



Spawner Recruit (1975–2015–SISIMP2021)



Production (1976–2009–HIVELY)

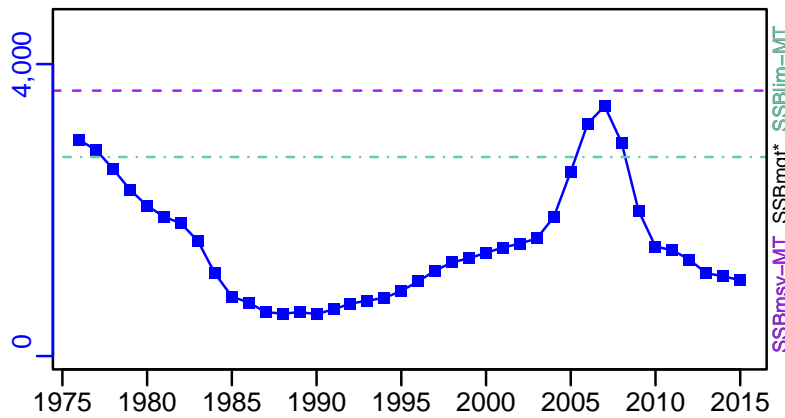
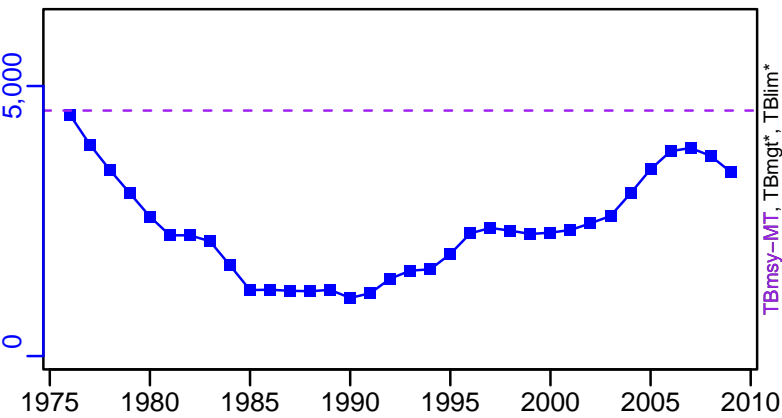


◆ Start Year ◆ End Year * No Data

Red grouper South Atlantic [RGROUPSATL]

TB-MT (1976-2009-HIVELY)

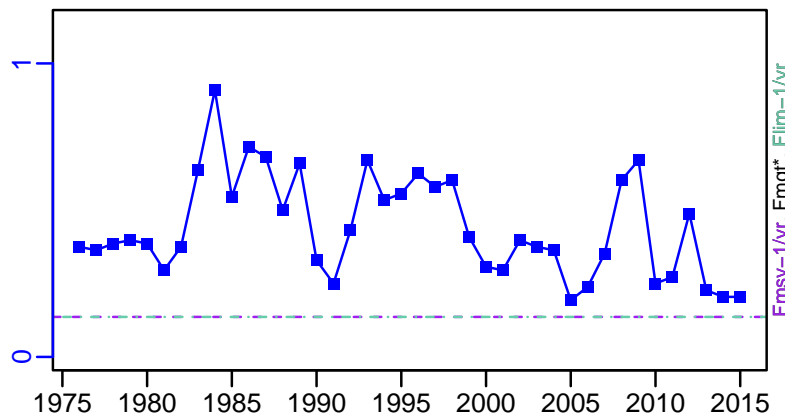
SSB-MT (1975-2015-SISIMP2021)



TN *

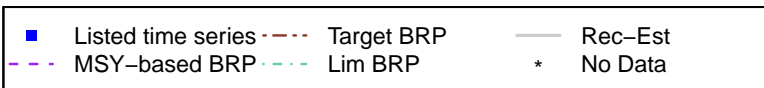
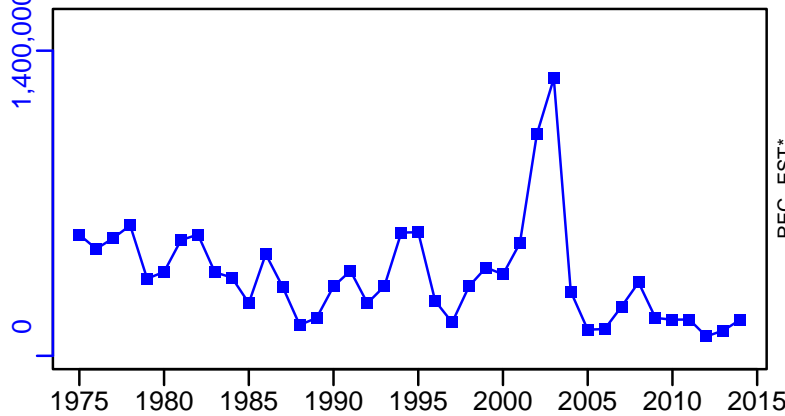
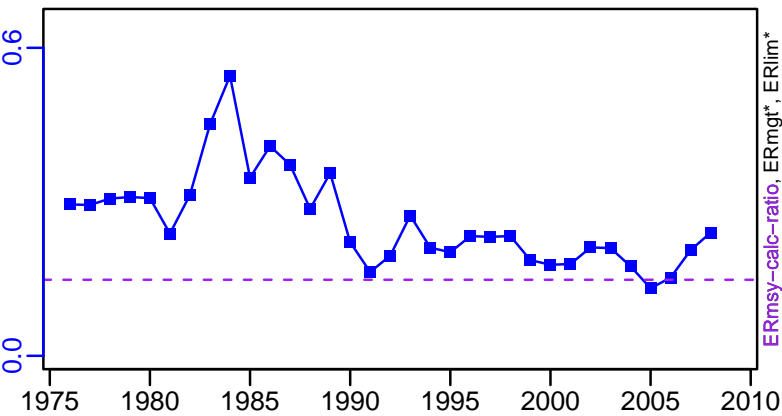


F-1/yr (1975-2015-SISIMP2021)



ER-calc-ratio (1976-2009-HIVELY)

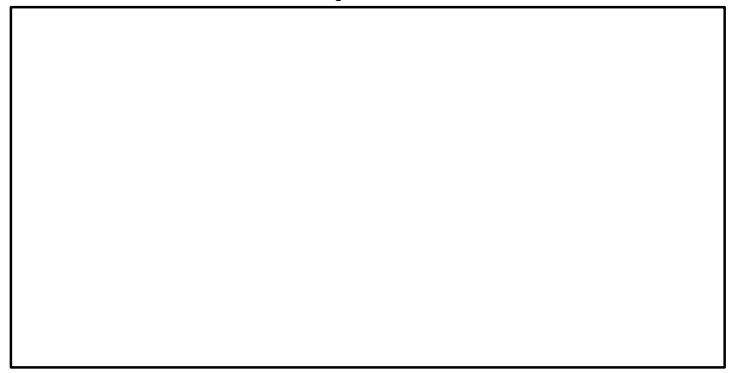
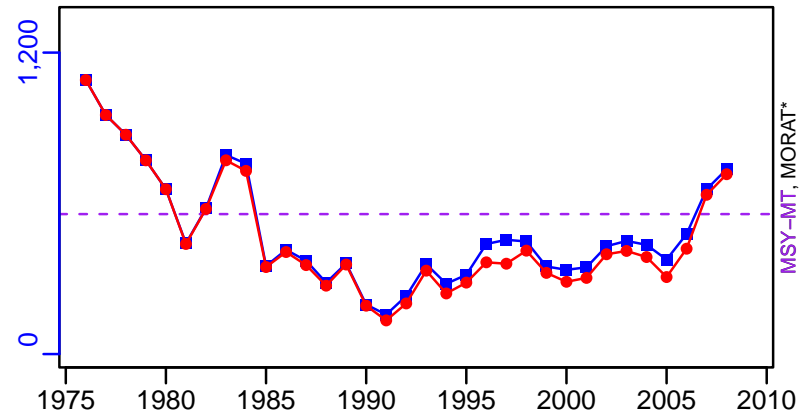
R-E00 (1975-2015-SISIMP2021)



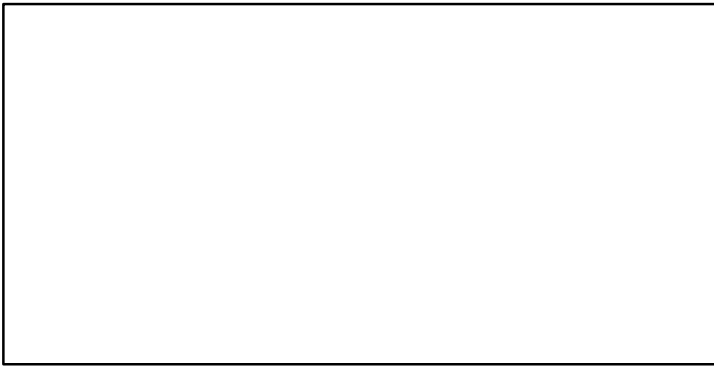
Red grouper South Atlantic [RGROUPSATL]

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

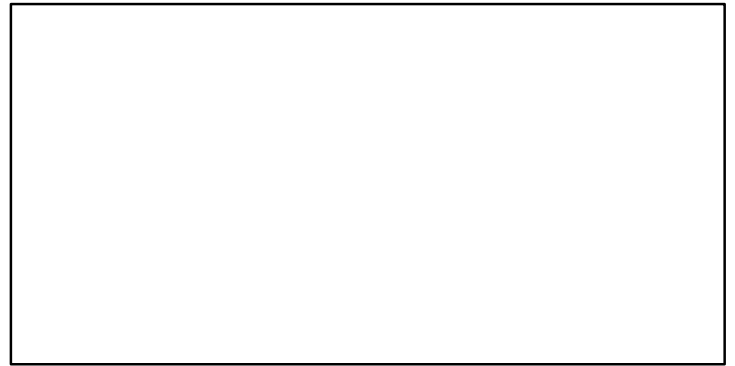
TAC*, Cpair*, Cadv*



survB*



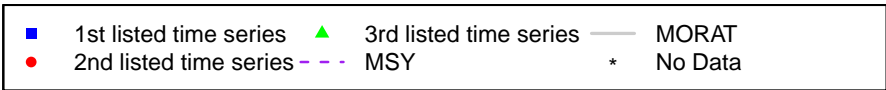
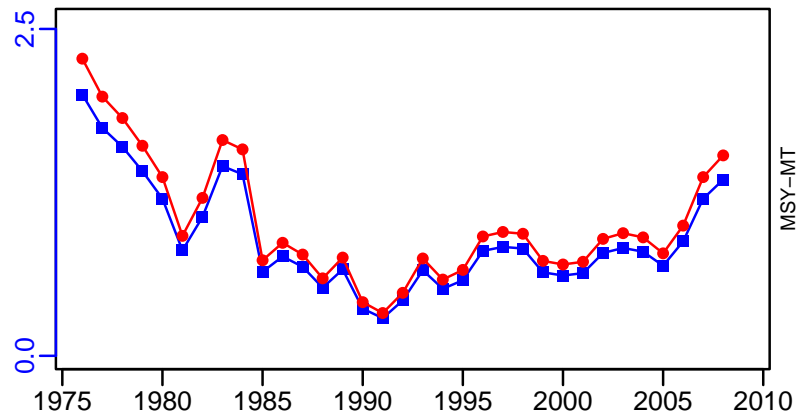
CPUE*



EFFORT*



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



Rubberlip grunt North West Africa [RGRUNTNA]

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

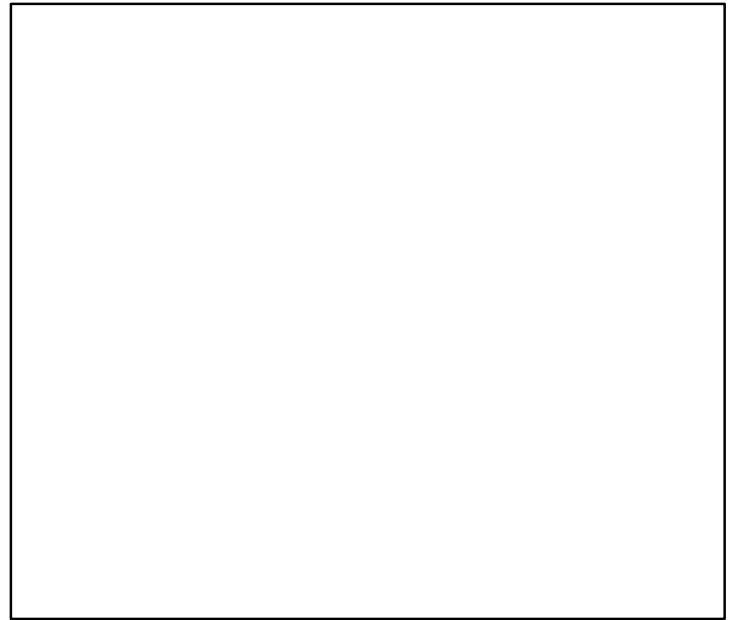
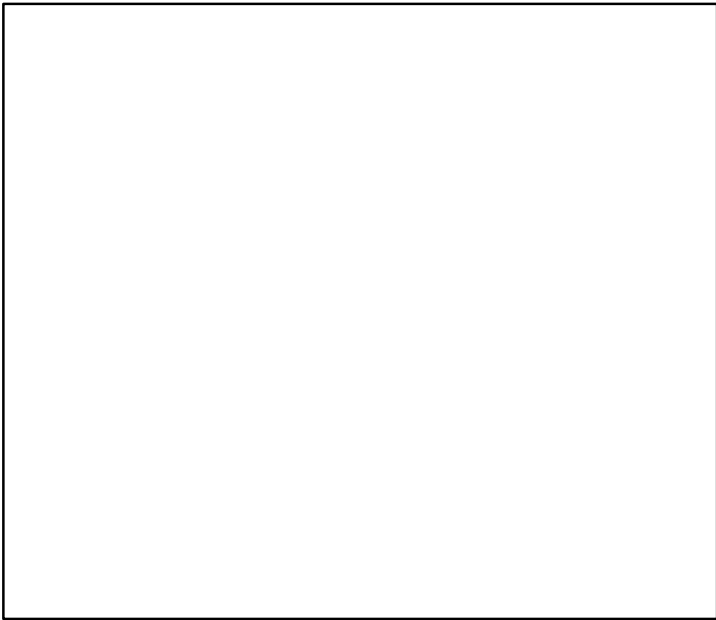
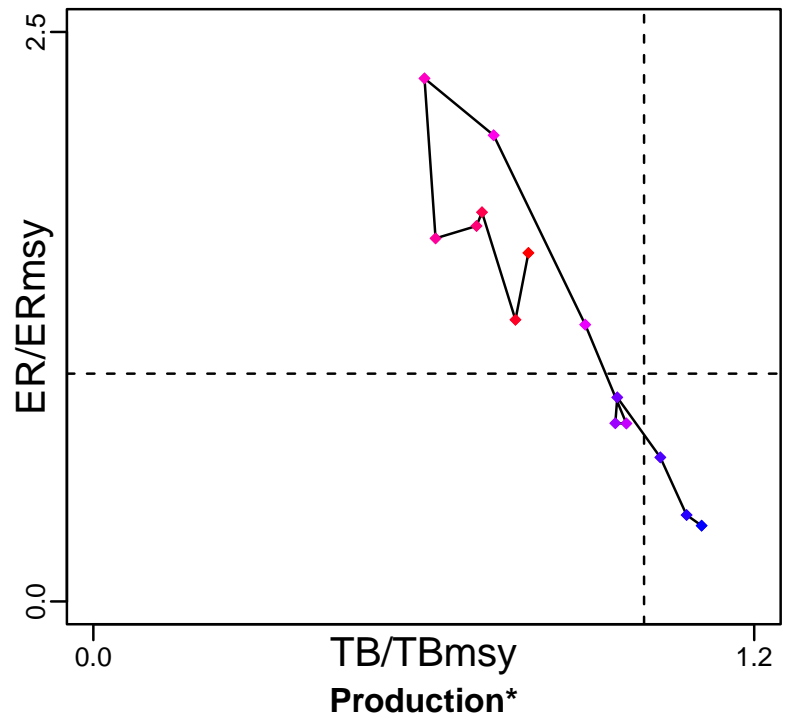
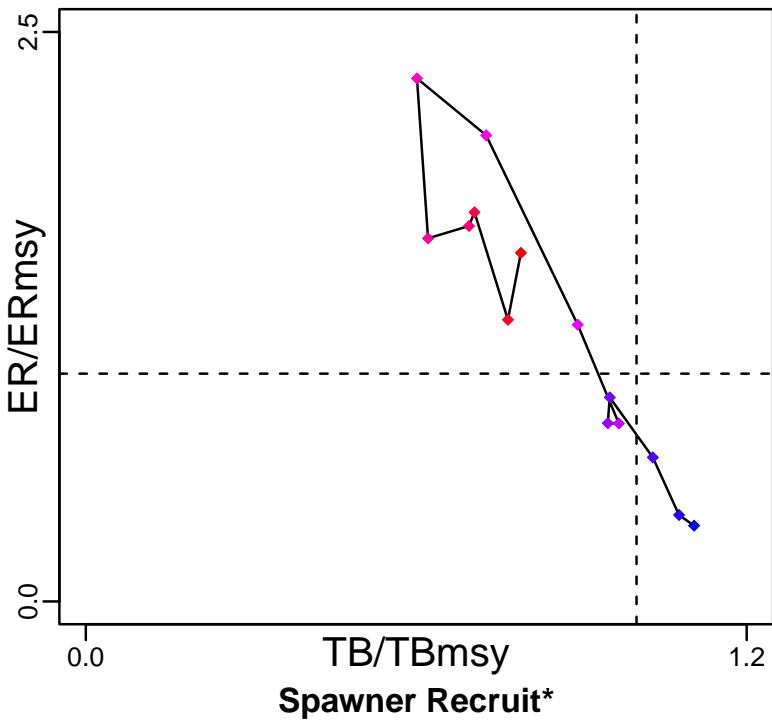
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

Rubberlip grunt North West Africa [RGRUNTNWA]

Kobe MSYpref (1990–2016–ASHBROOK)

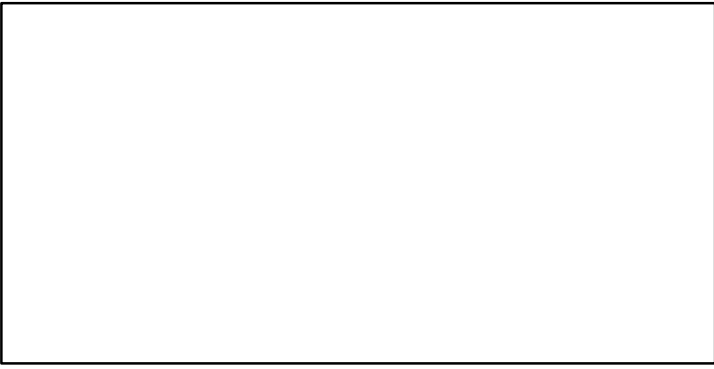
Kobe MGTpref (1990–2016–ASHBROOK)



◆ Start Year ◆ End Year * No Data

Rubberlip grunt North West Africa [RGRUNTNWA]

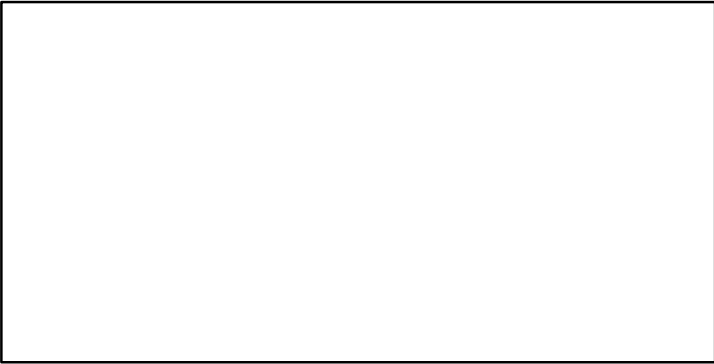
TB*



SSB*



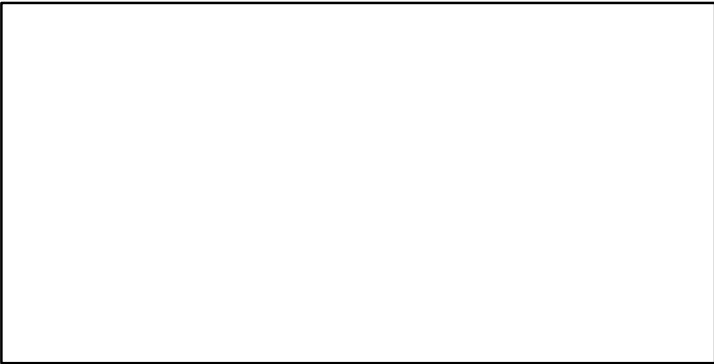
TN *



F*



ER*

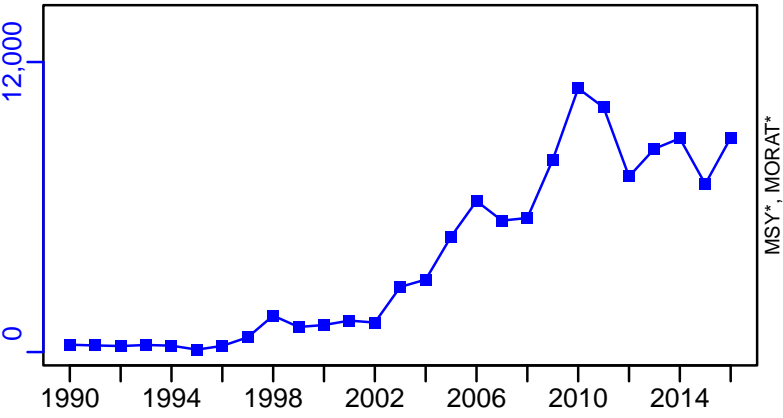


Recruits*

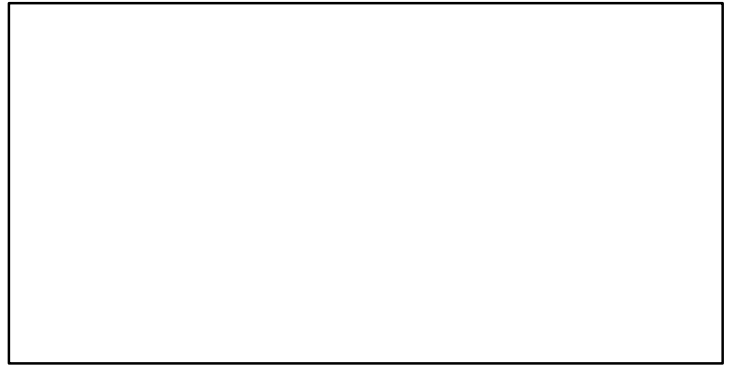


Rubberlip grunt North West Africa [RGRUNTNWA]

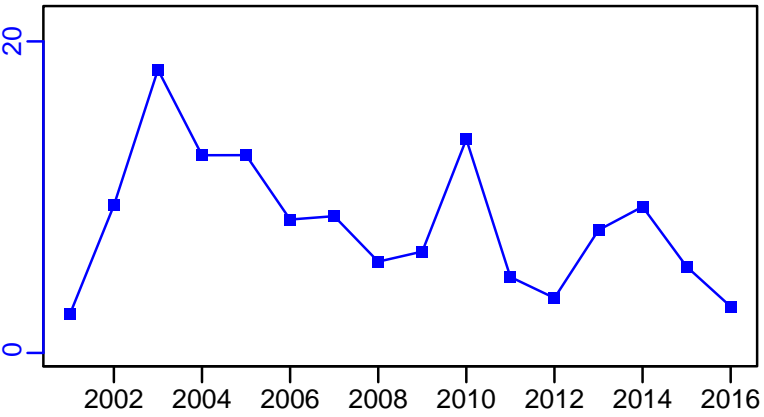
TC-MT, TL*, RecC* (1990-2016-ASHBROOK)



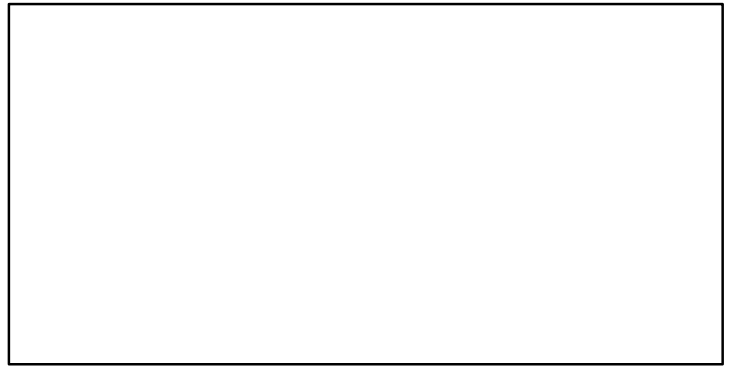
TAC*, Cpair*, Cadv*



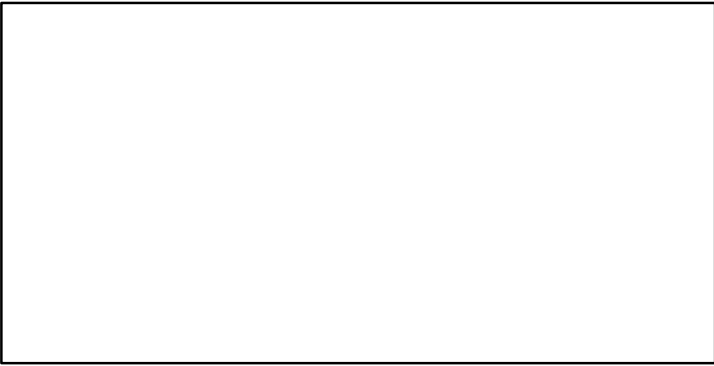
survB_index-index (1990-2016-ASHBROOK)



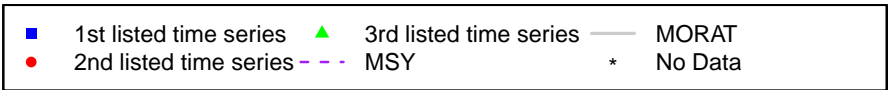
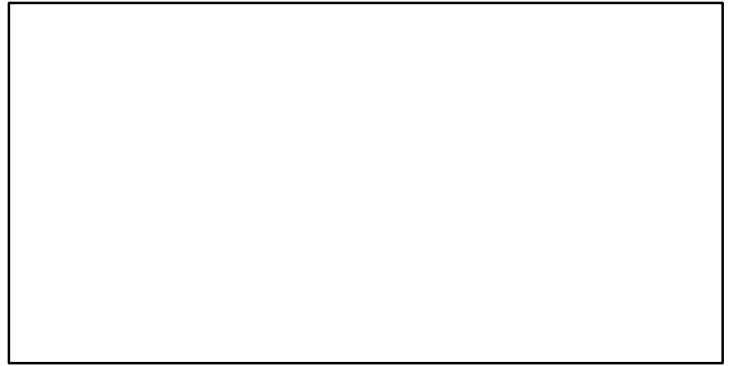
CPUE*



EFFORT*



CdivMSY*



Red mullet Northern Alboran Sea [RMULLMEDGSA1]

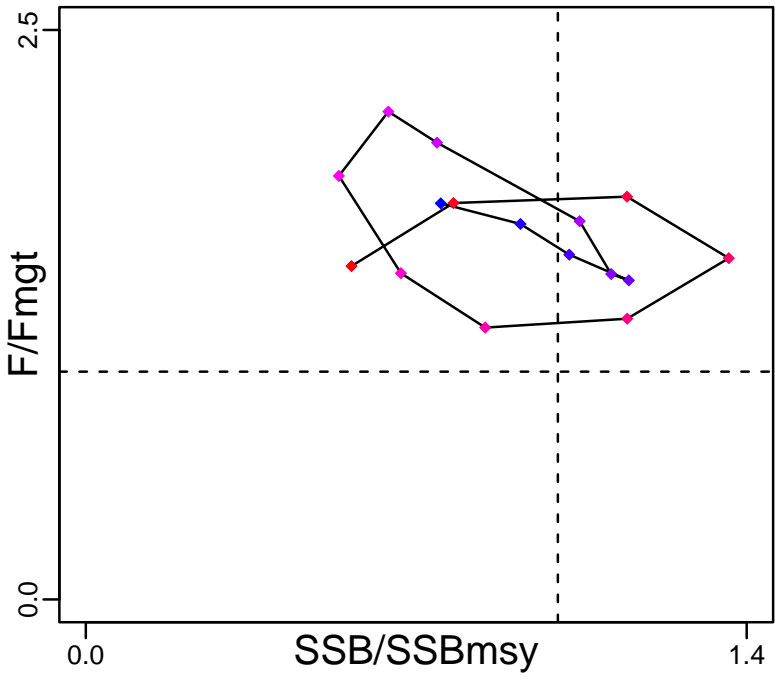
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	STECF-RMULLMEDGSA1-2004-2019-MEDIMP2021-2
Area	Northern Alboran Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.702
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

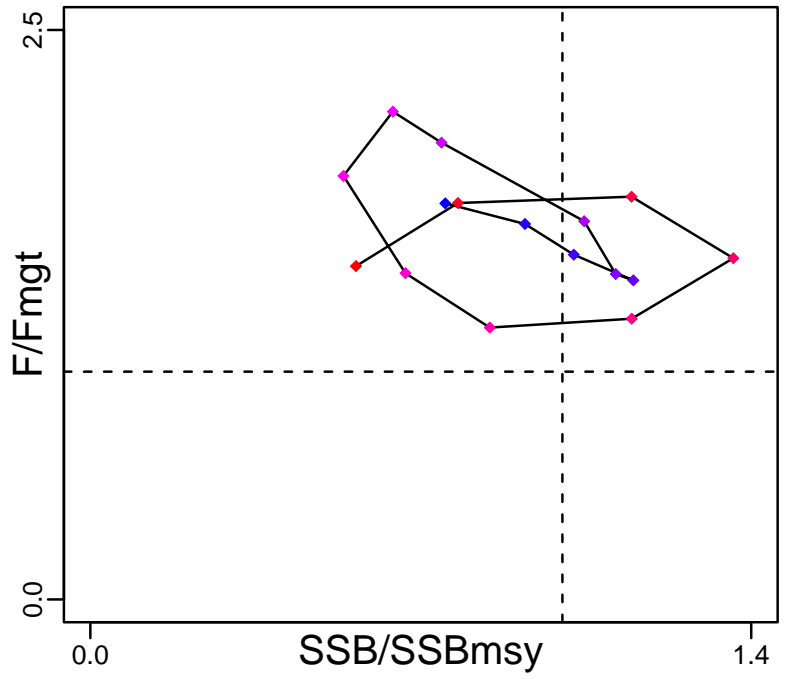
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	161	-	-
TN	-	-	-	-	-
R	R-E00	2019	3,890,013	-	-
F	F-1/yr	2019	1.028	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	115		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.463		
ER/ERmgt	-	-	-		

Red mullet Northern Alboran Sea [RMULLMEDGSA1]

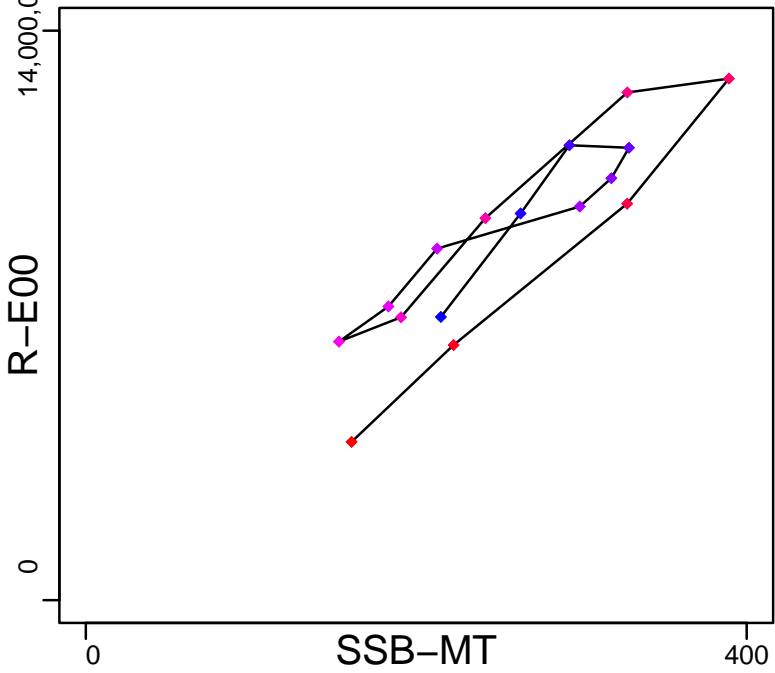
Kobe MSYpref (2004–2019–MEDIMP2021–2)



Kobe MGTpref (2004–2019–MEDIMP2021–2)



Spawner Recruit (2004–2019–MEDIMP2021–2)



Production*



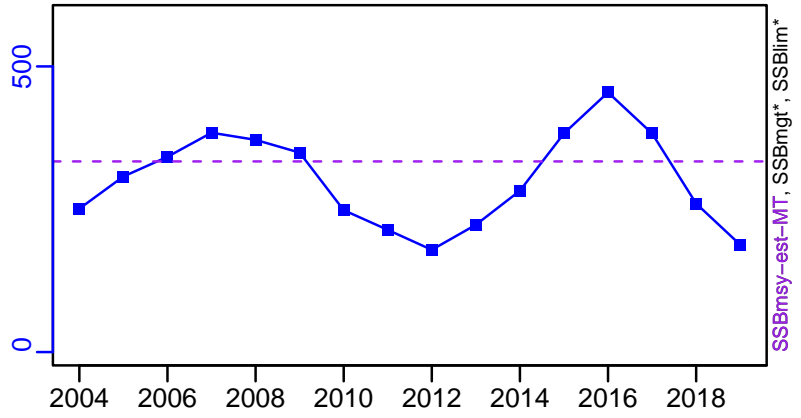
◆ Start Year ◆ End Year * No Data

Red mullet Northern Alboran Sea [RMULLMEDGSA1]

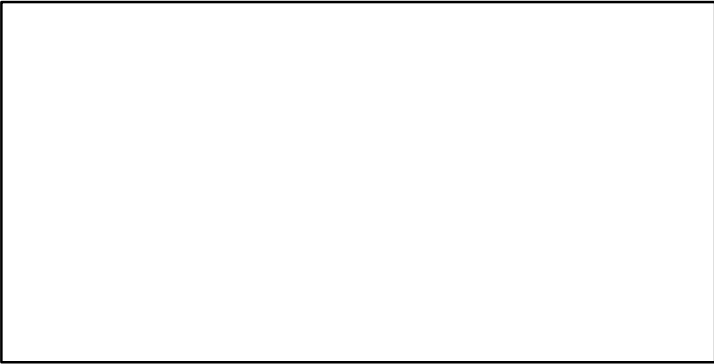
TB*



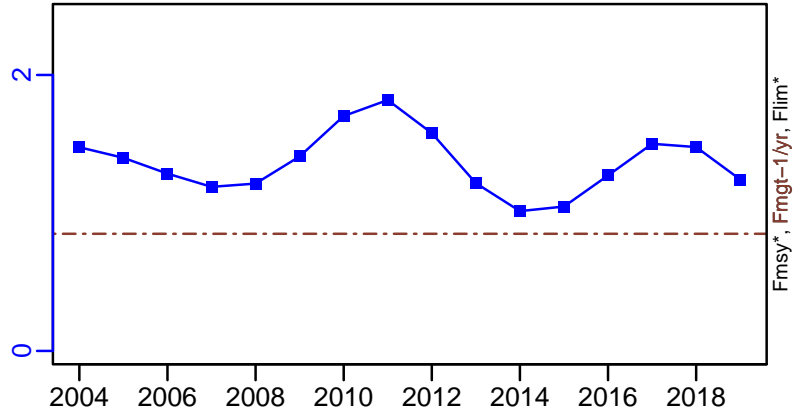
SSB-MT (2004-2019-MEDIMP2021-2)



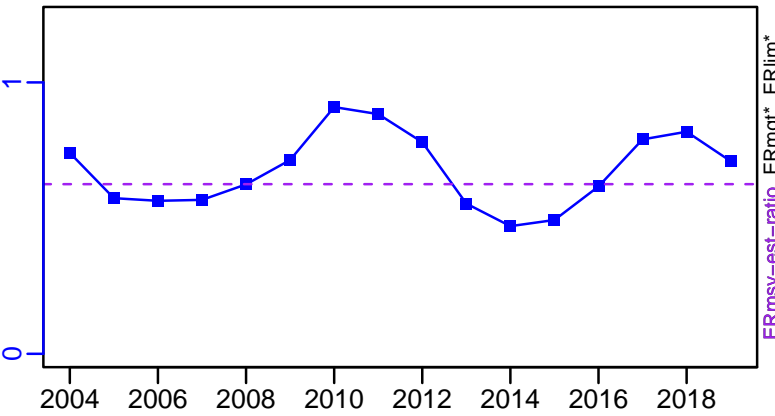
TN *



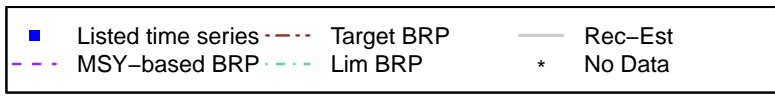
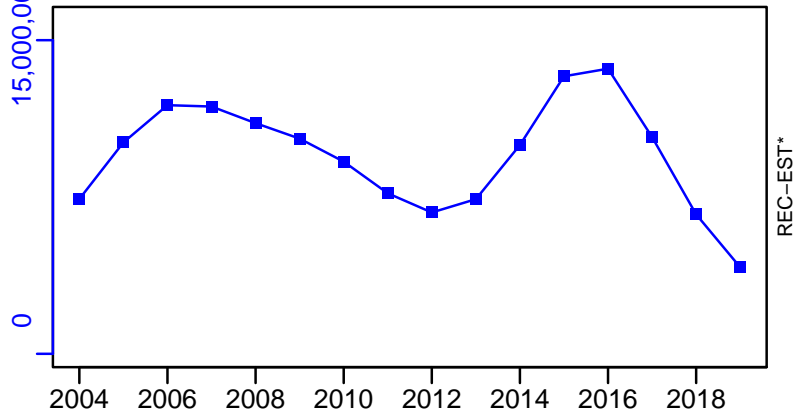
F-1/yr (2004-2019-MEDIMP2021-2)



ER-calc-ratio (2004-2019-MEDIMP2021-2)



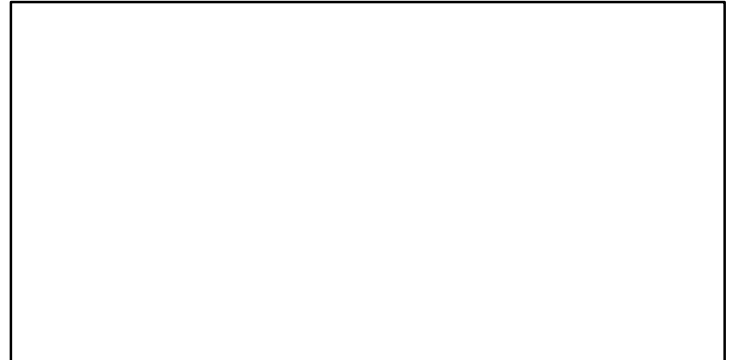
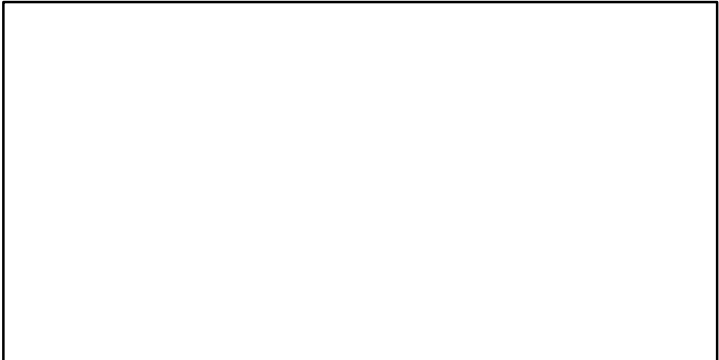
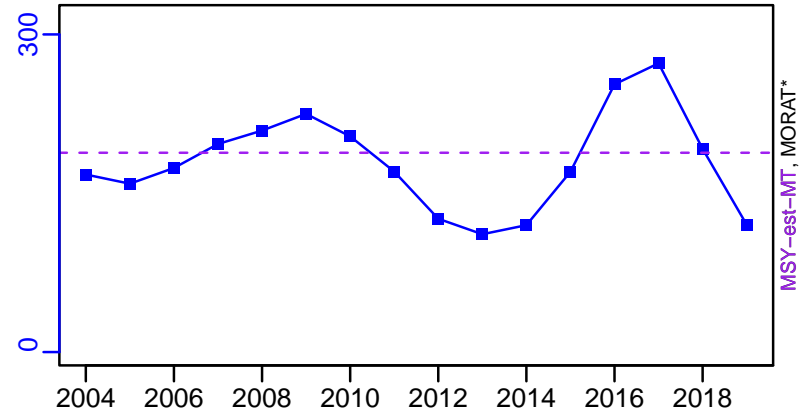
R-E00 (2004-2019-MEDIMP2021-2)



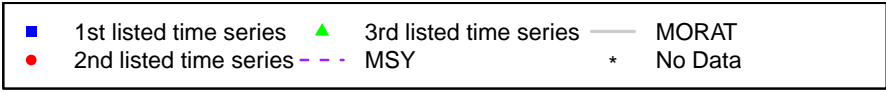
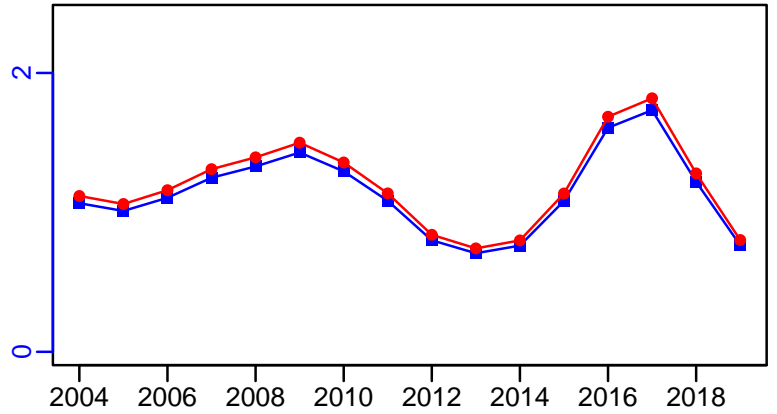
Red mullet Northern Alboran Sea [RMULLMEDGSA1]

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

TAC*, Cpair*, Cadv*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2004-2019-MEDIMP2021-2)



Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

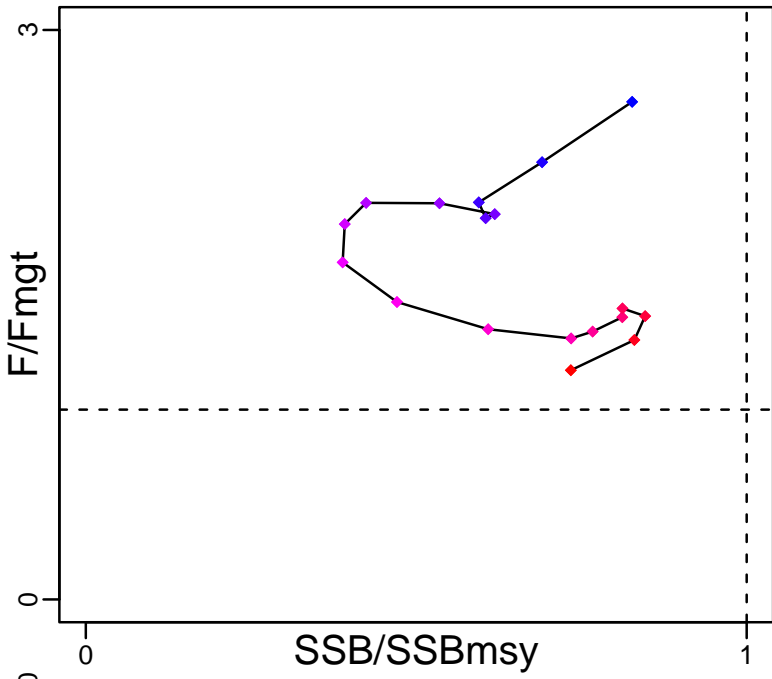
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	STECF-RMULLMEDGSA10-2002-2019-MEDIMP2021-2
Area	South Tyrrhenian Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts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

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

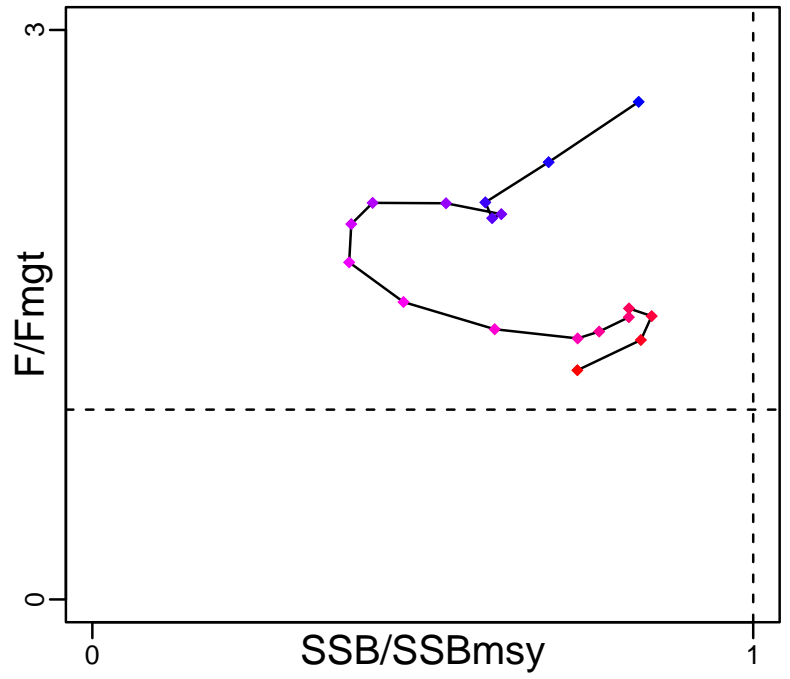
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	661	-	-
TN	-	-	-	-	-
R	R-E00	2019	124,069,753	-	-
F	F-1/yr	2019	0.475	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	334		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-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

Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

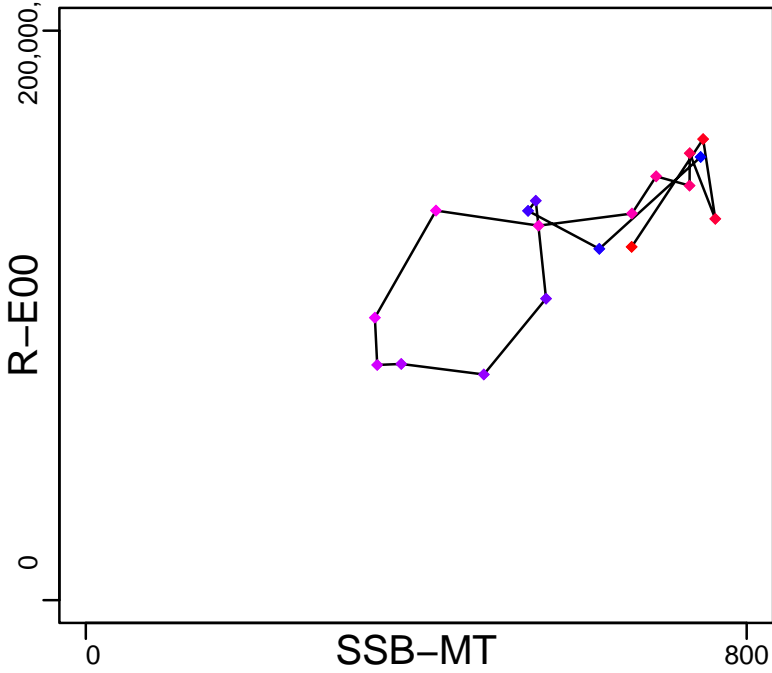
Kobe MSYpref (2002–2019–MEDIMP2021–2)



Kobe MGTpref (2002–2019–MEDIMP2021–2)



Spawner Recruit (2002–2019–MEDIMP2021–2)



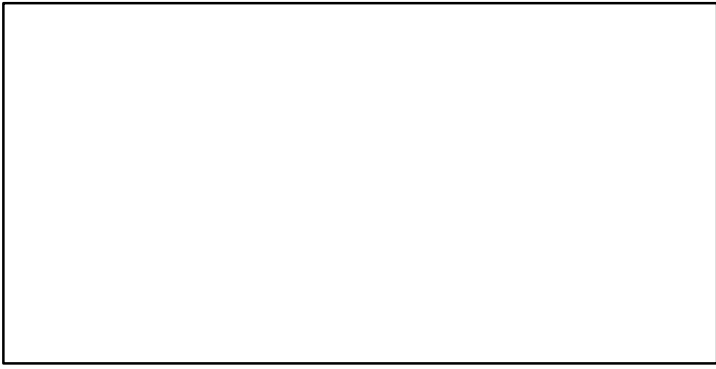
Production*



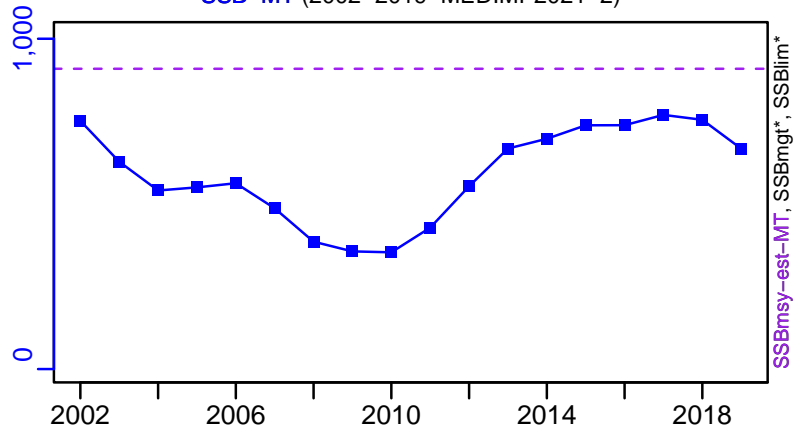
◆ Start Year ◆ End Year * No Data

Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

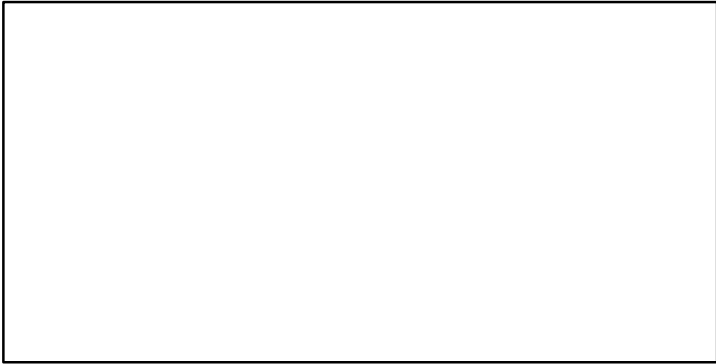
TB*



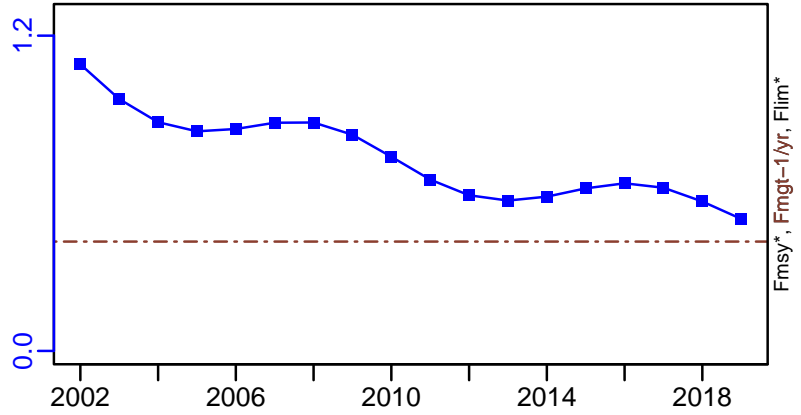
SSB-MT (2002-2019-MEDIMP2021-2)



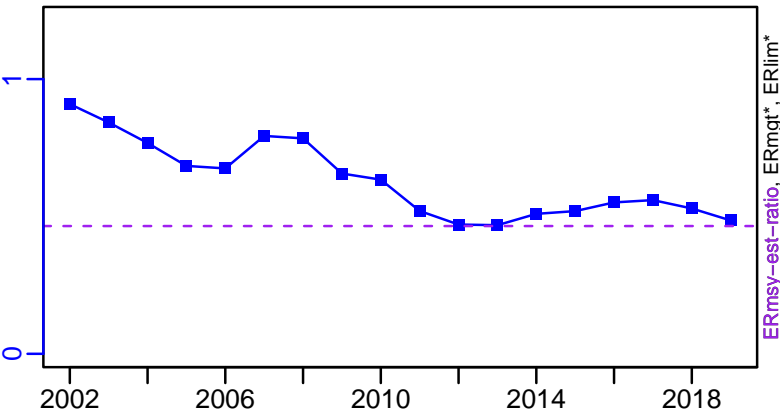
TN *



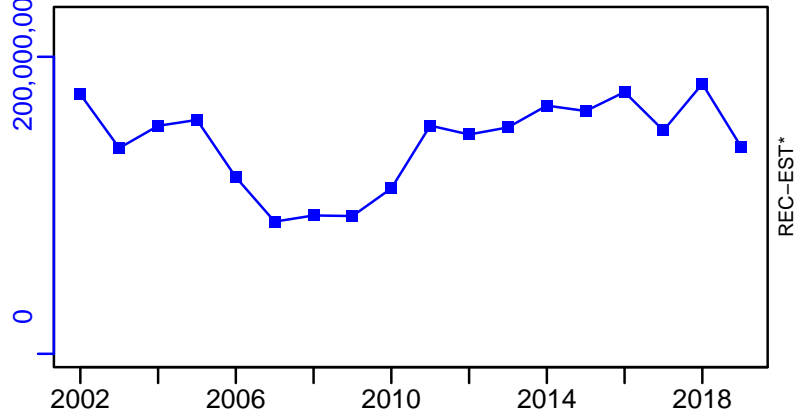
F-1/yr (2002-2019-MEDIMP2021-2)



ER-calc-ratio (2002-2019-MEDIMP2021-2)



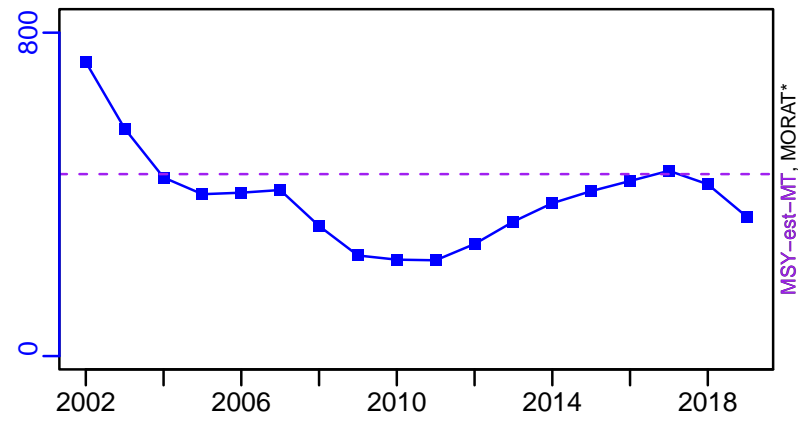
R-E00 (2002-2019-MEDIMP2021-2)



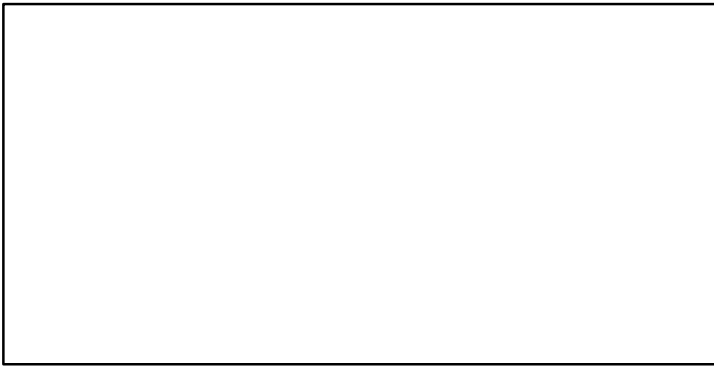
Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

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

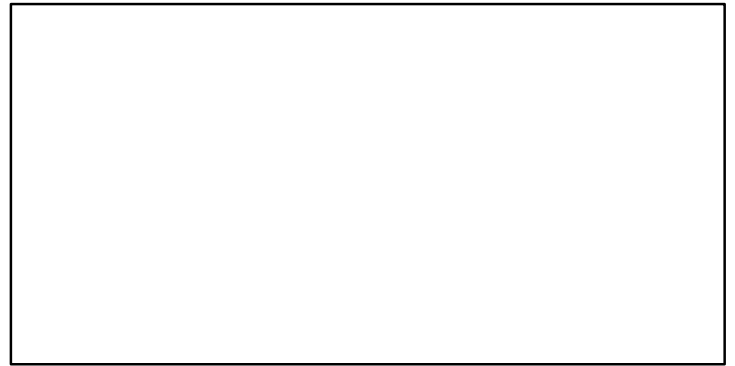
TAC*, Cpair*, Cadv*



survB*



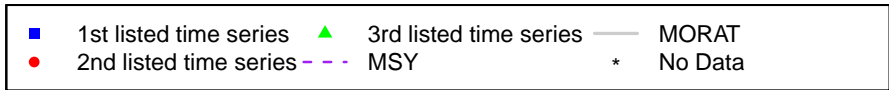
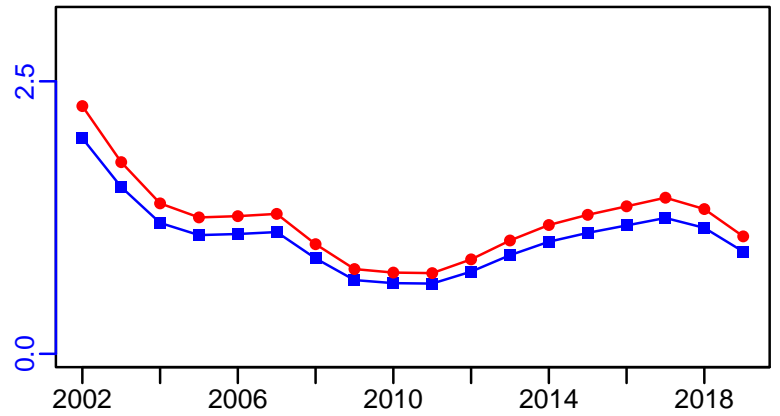
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2002-2019-MEDIMP2021-2)



Red mullet Sardinia [RMULLMEDGSA11]

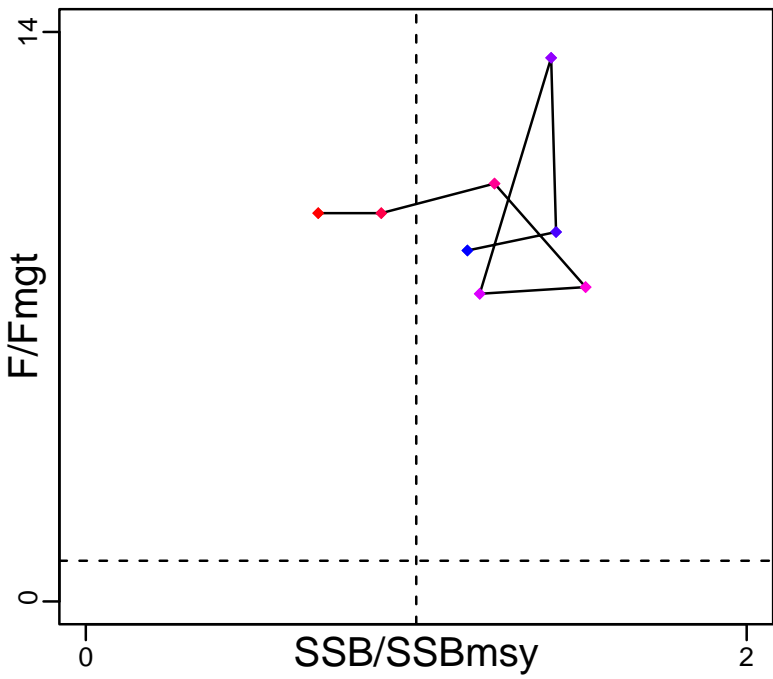
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	STECF-RMULLMEDGSA11-2005-2012-OSIO
Area	Sardinia
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2012	0.11
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

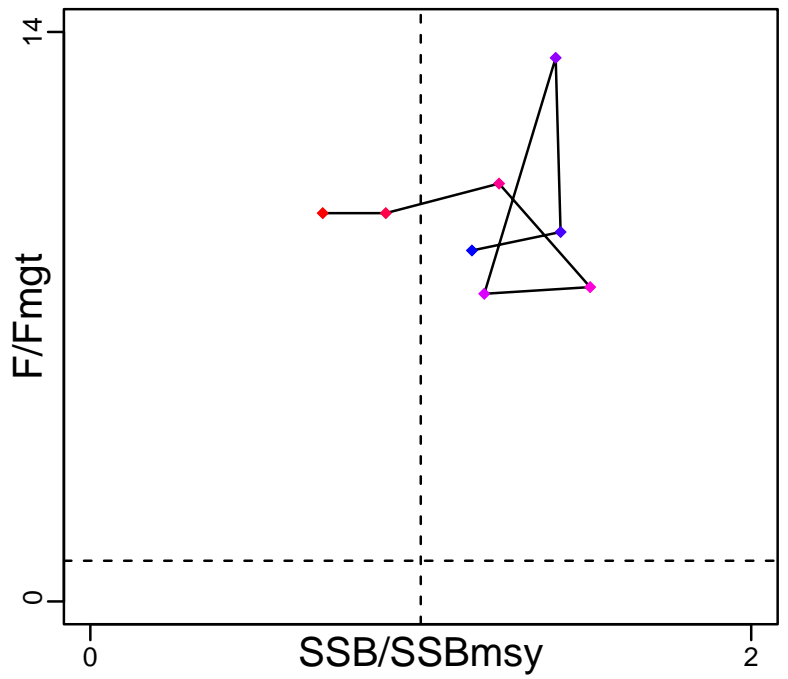
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	94	-	1+
TN	-	-	-	-	-
R	R-E00	2012	26,600,000	-	-
F	F-1/yr	2012	1.05	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	136		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	9.545		
ER/ERmgt	-	-	-		

Red mullet Sardinia [RMULLMEDGSA11]

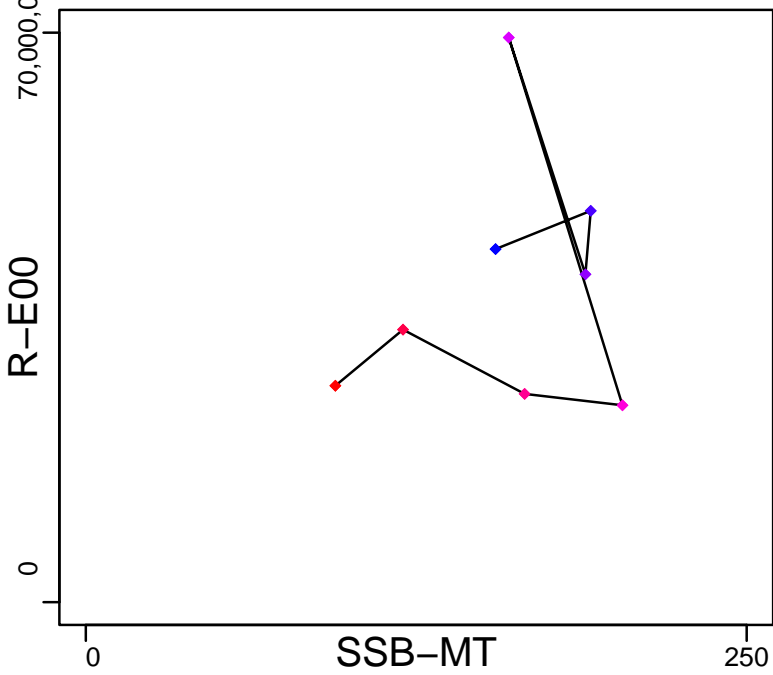
Kobe MSYpref (2005–2012–OSIO)



Kobe MGTpref (2005–2012–OSIO)



Spawner Recruit (2005–2012–OSIO)



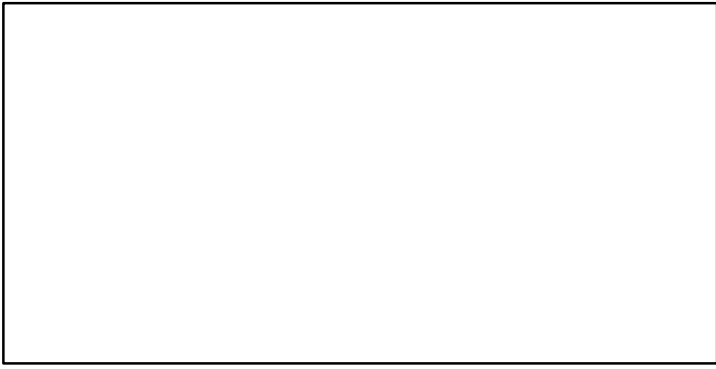
Production*



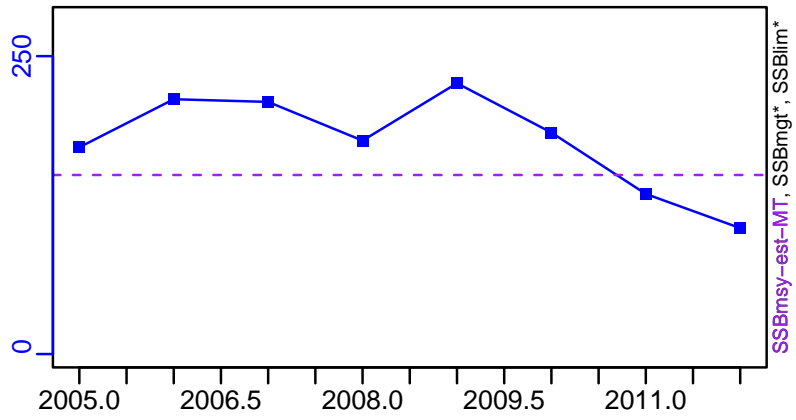
◆ Start Year ◆ End Year * No Data

Red mullet Sardinia [RMULLMEDGSA11]

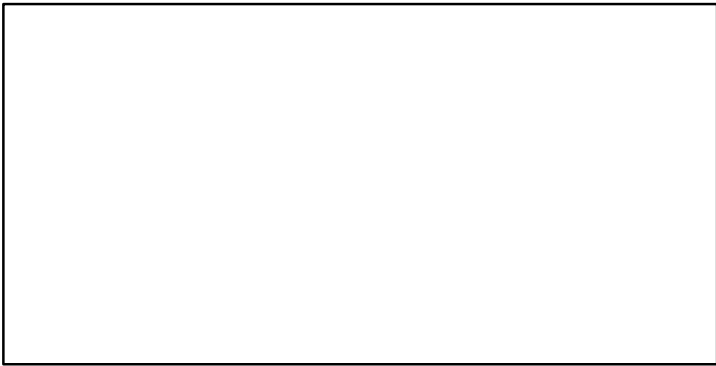
TB*



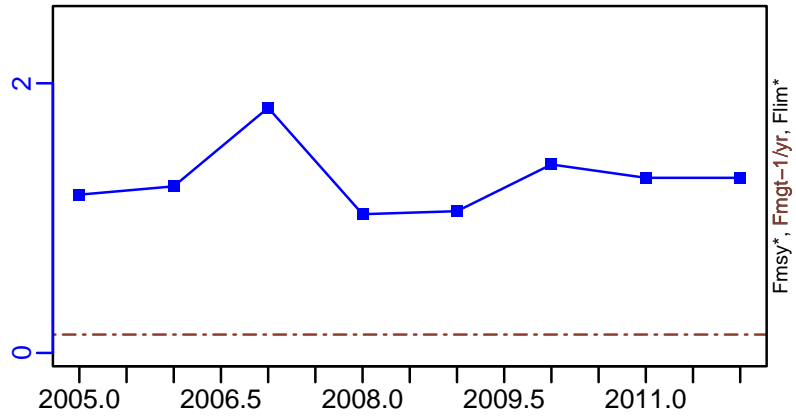
SSB-MT (2005-2012-OSIO)



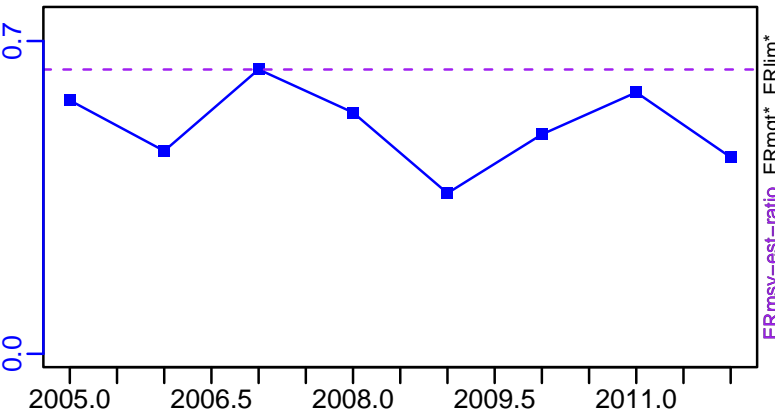
TN *



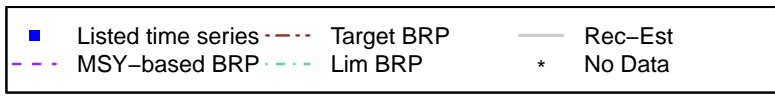
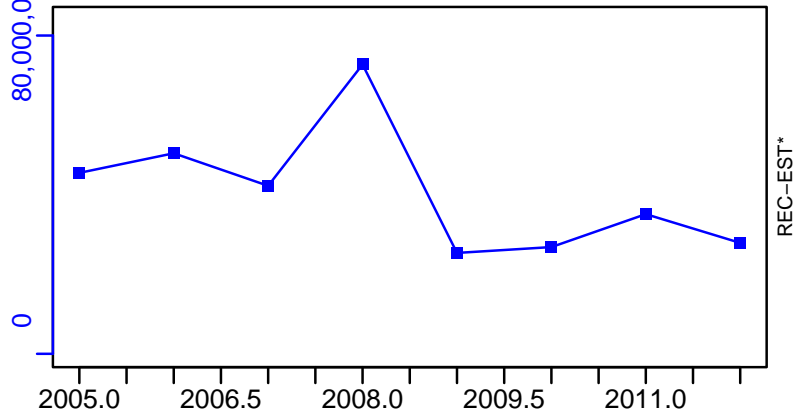
F-1/yr (2005-2012-OSIO)



ER-calc-ratio (2005-2012-OSIO)



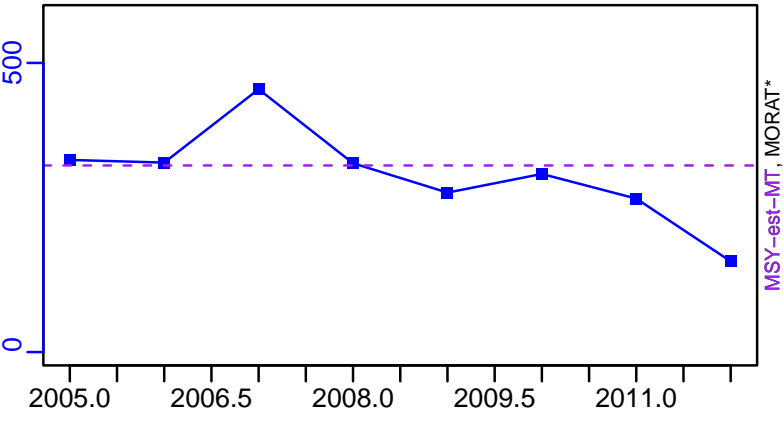
R-E00 (2005-2012-OSIO)



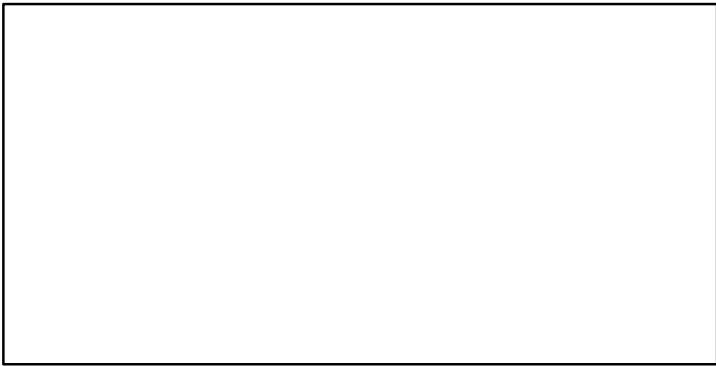
Red mullet Sardinia [RMULLMEDGSA11]

TC-MT, TL*, RecC* (2005-2012-OSIO)

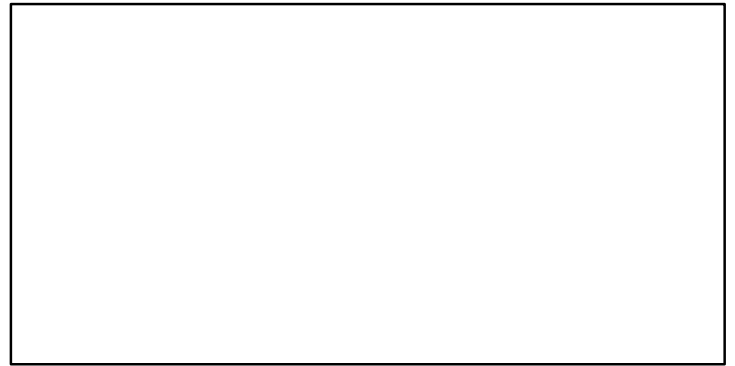
TAC*, Cpair*, Cadv*



survB*



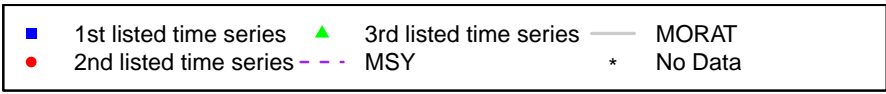
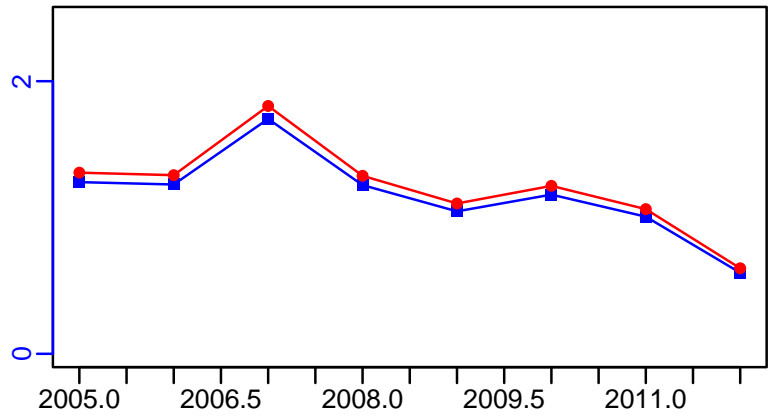
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2005-2012-OSIO)



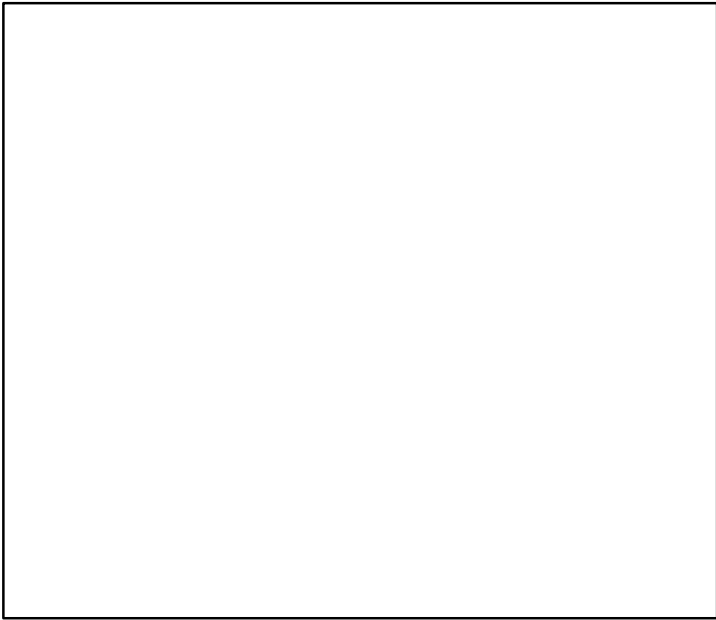
Red mullet Malta Island and South of Sicily (GSA 15, 16) [RMULLMEDGSA15-16]

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

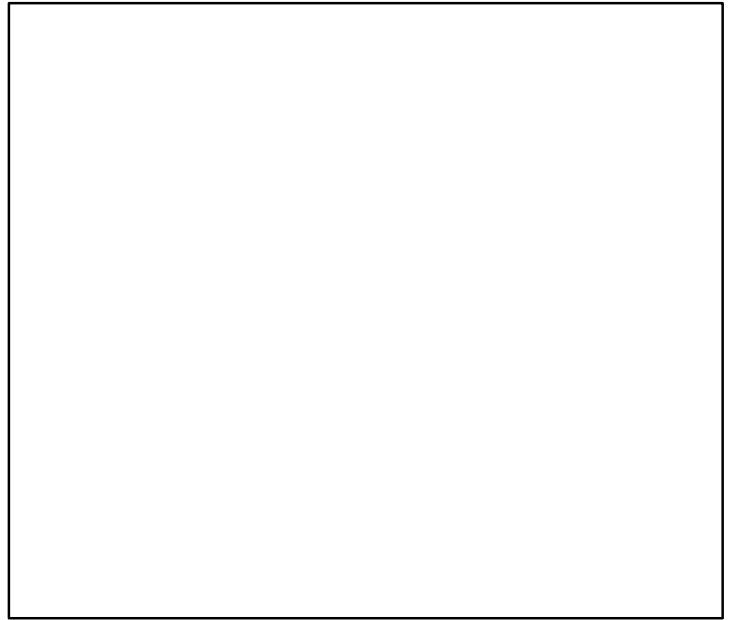
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.45
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	1150	-	1.5+
TN	-	-	-	-	-
R	R-E00	2011	68,900,000	-	-
F	F-1/yr	2011	1.3	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	609		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	2.889		
ER/ERmgt	-	-	-		

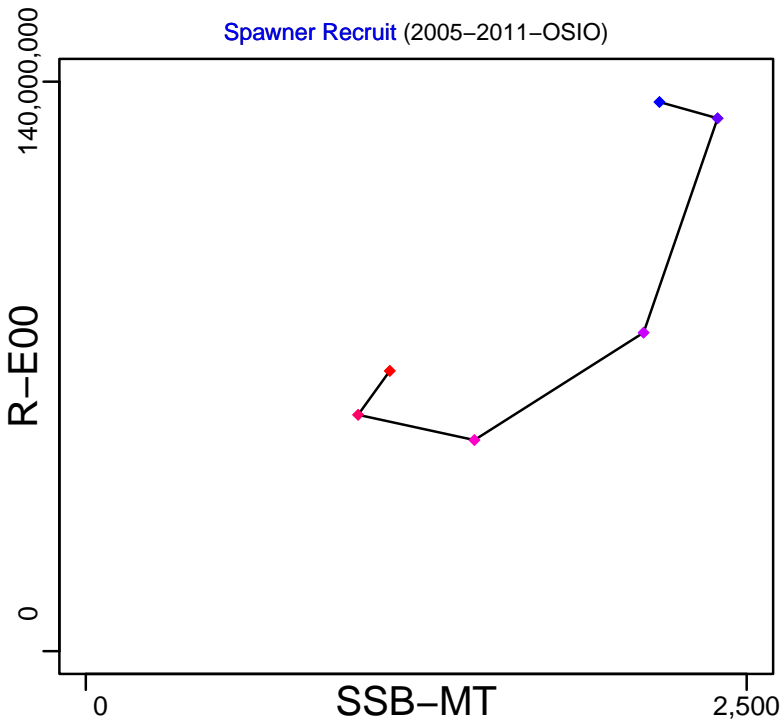
Kobe MSY*



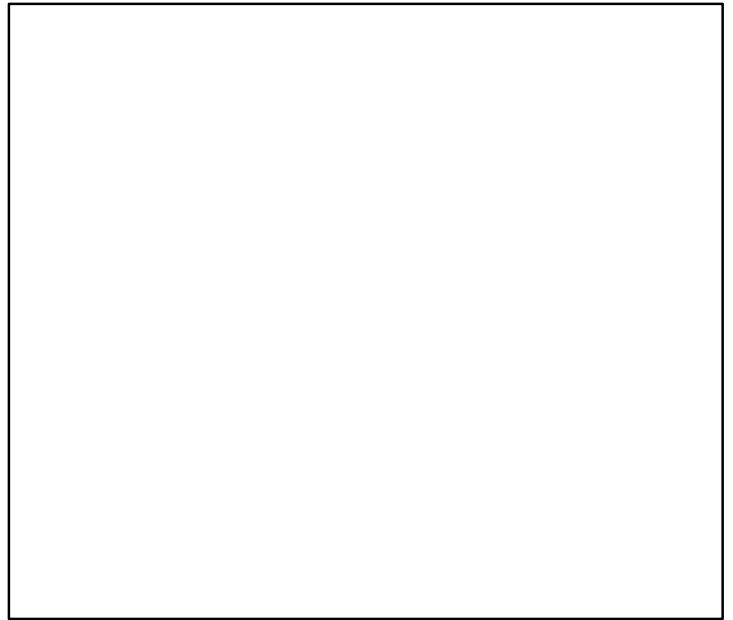
Kobe MGT*



Spawner Recruit (2005-2011-OSIO)



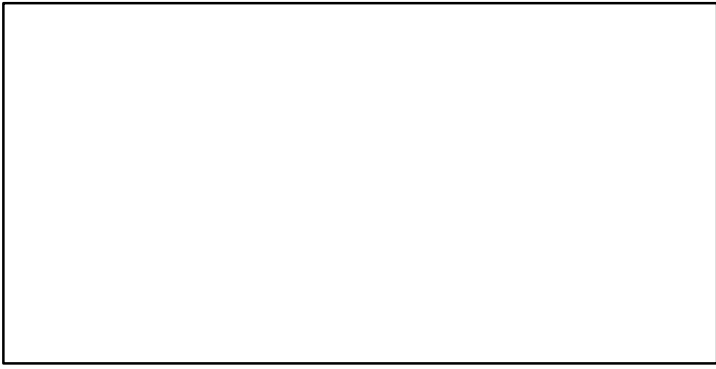
Production*



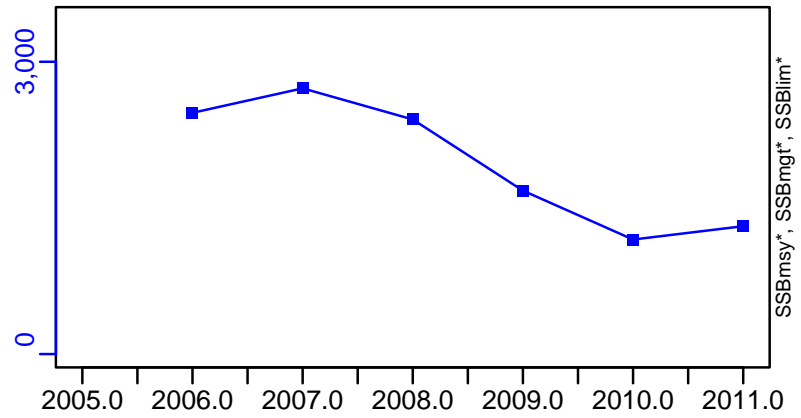
◆ Start Year ◆ End Year * No Data

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

TB*



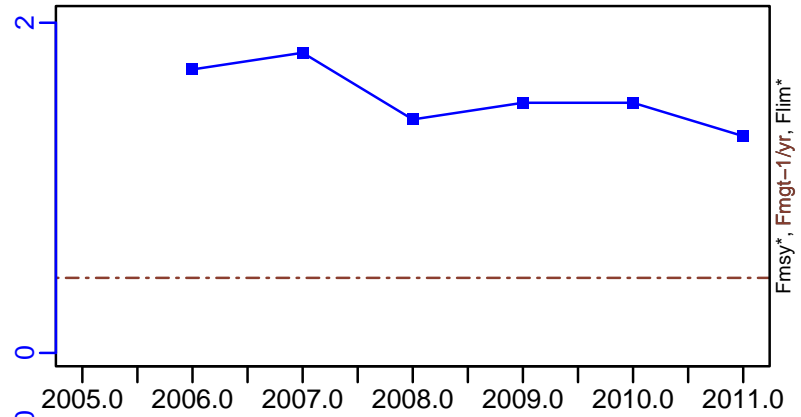
SSB-MT (2005-2011-OSIO)



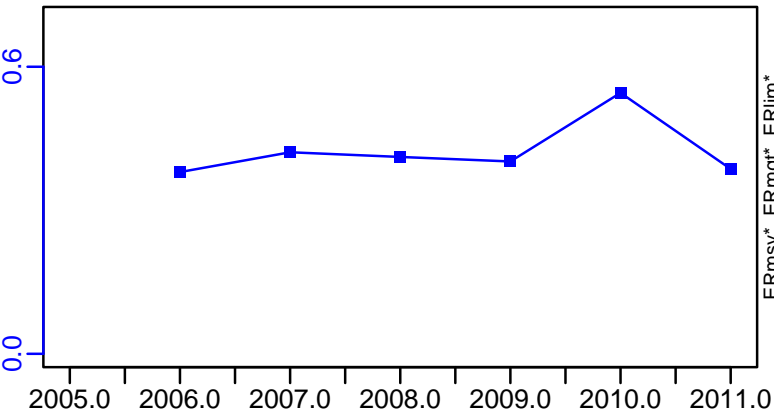
TN *



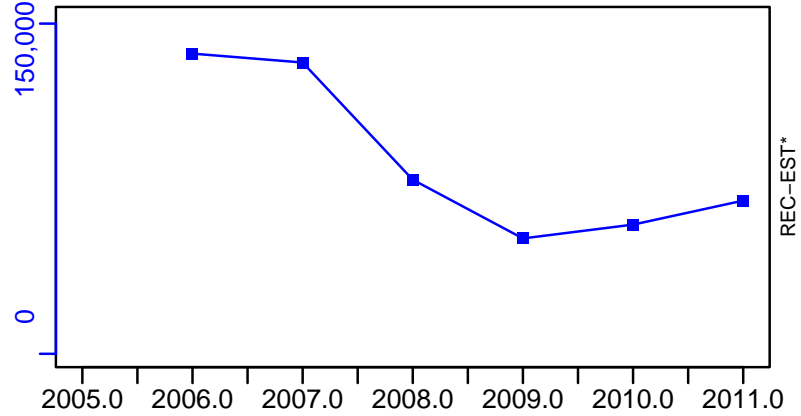
F-1/yr (2005-2011-OSIO)



ER-calc-ratio (2005-2011-OSIO)



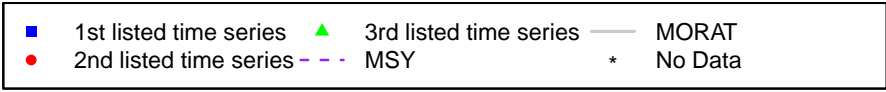
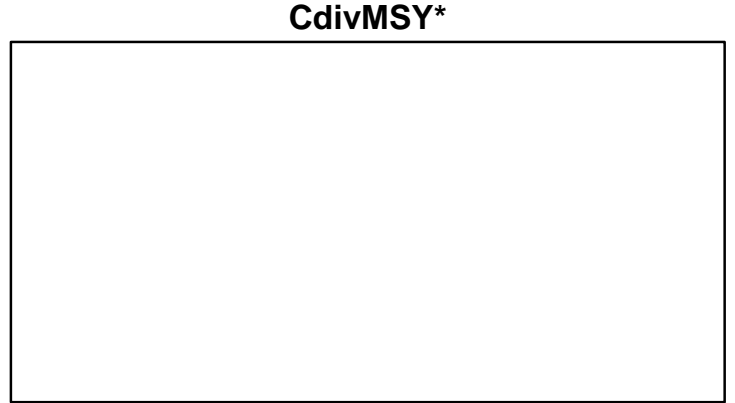
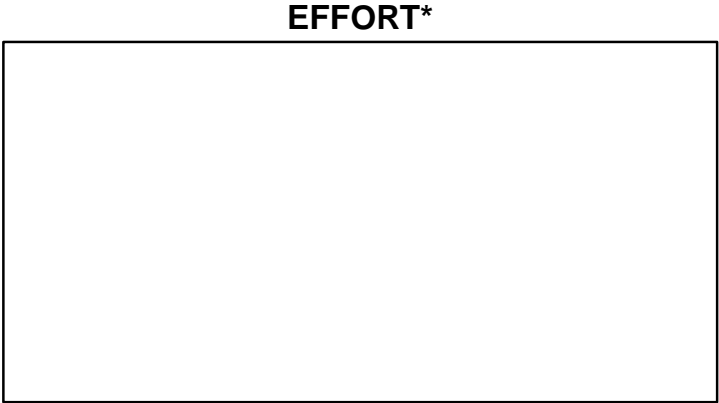
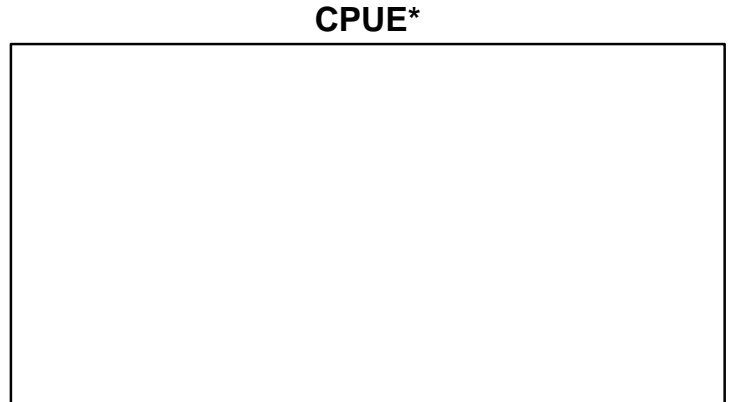
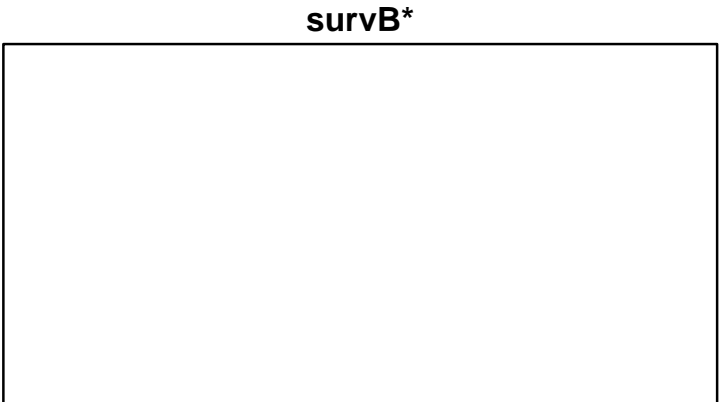
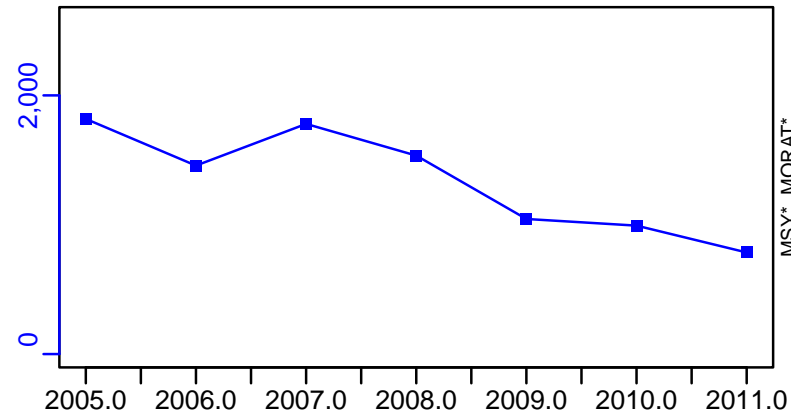
R-E00 (2005-2011-OSIO)



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

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

TAC*, Cpair*, Cadv*



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

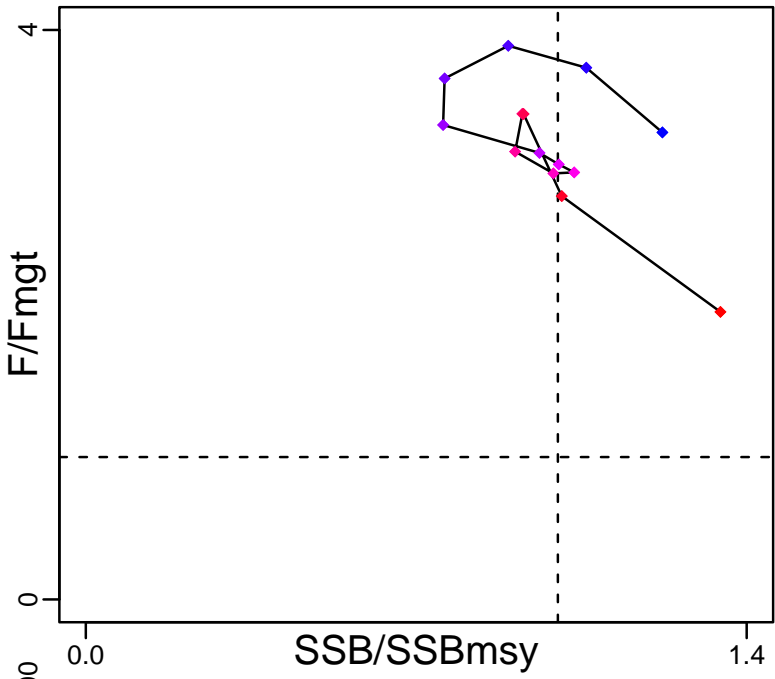
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	STECF-RMULLMEDGSA17-18-2006-2019-MEDIMP2021-2
Area	Adriatic Sea (GSA 17,18)
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.34
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

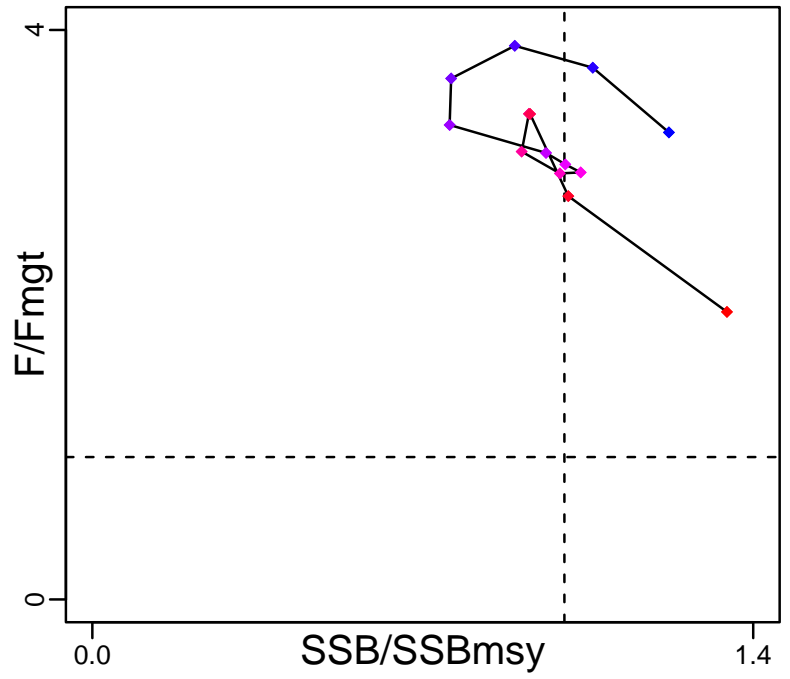
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	7587	-	-
TN	-	-	-	-	-
R	R-E00	2019	955,114,012	-	-
F	F-1/yr	2019	0.687	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	4632		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.02		
ER/ERmgt	-	-	-		

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

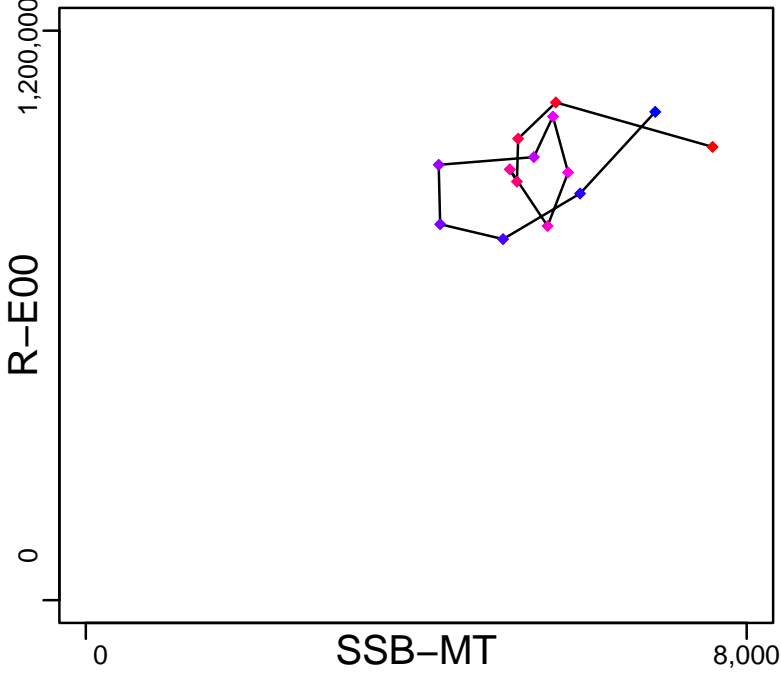
Kobe MSYpref (2006-2019-MEDIMP2021-2)



Kobe MGTpref (2006-2019-MEDIMP2021-2)



Spawner Recruit (2006-2019-MEDIMP2021-2)



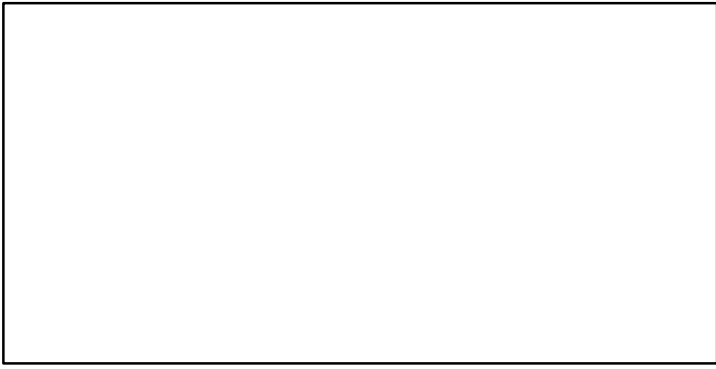
Production*



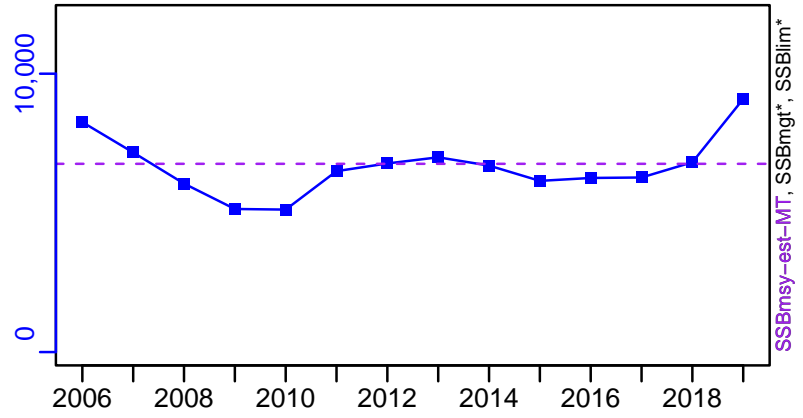
◆ Start Year ◆ End Year * No Data

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

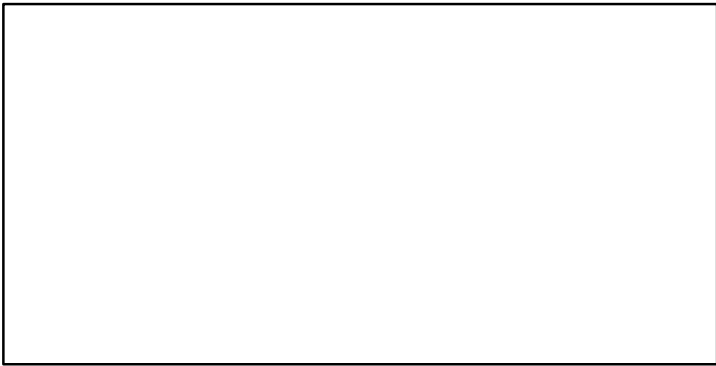
TB*



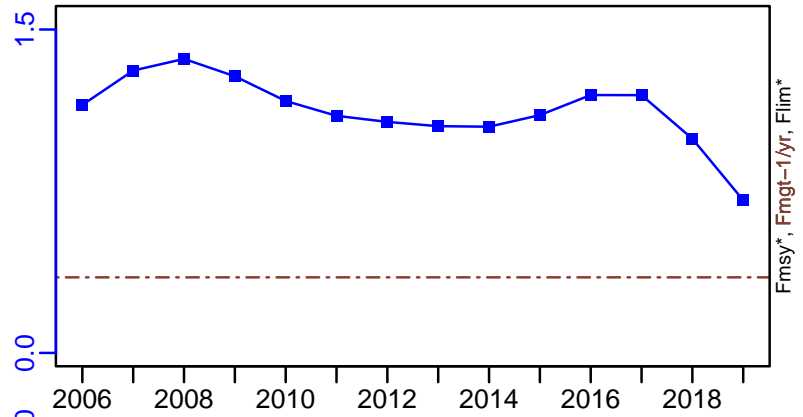
SSB-MT (2006-2019-MEDIMP2021-2)



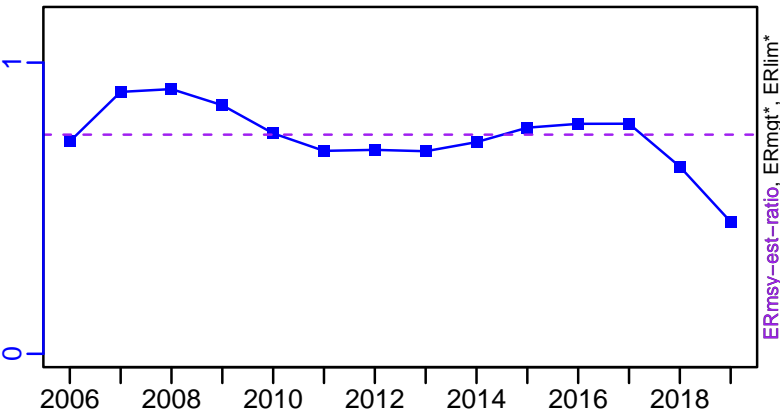
TN *



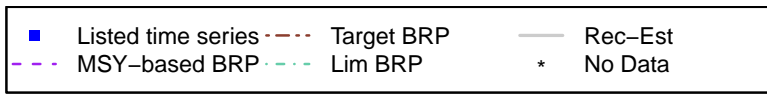
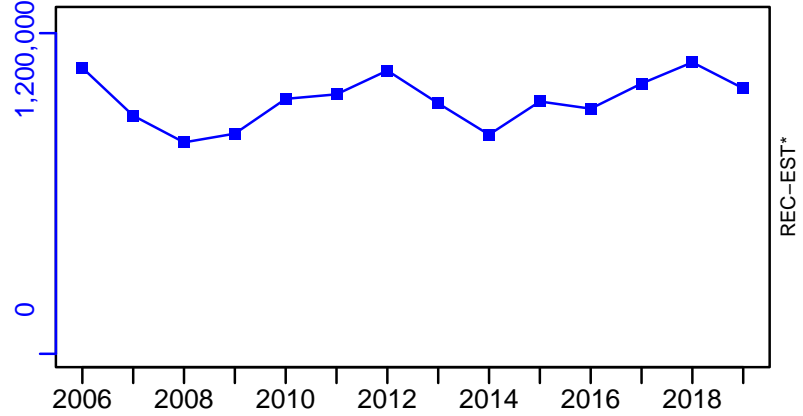
F-1/yr (2006-2019-MEDIMP2021-2)



ER-calc-ratio (2006-2019-MEDIMP2021-2)



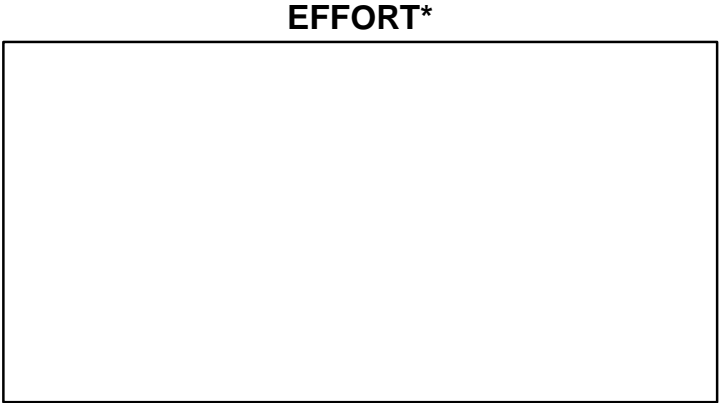
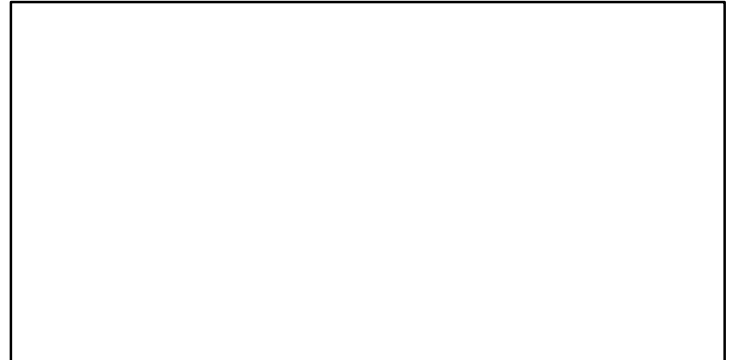
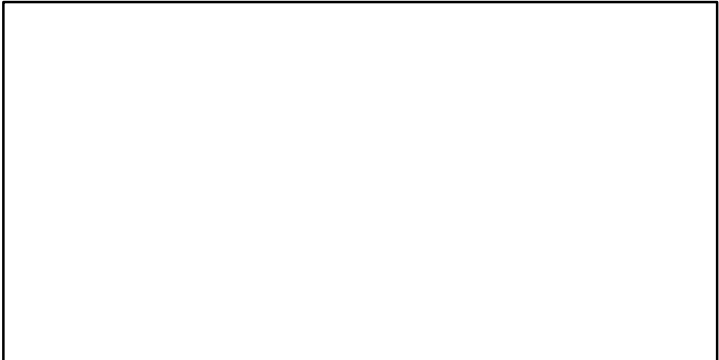
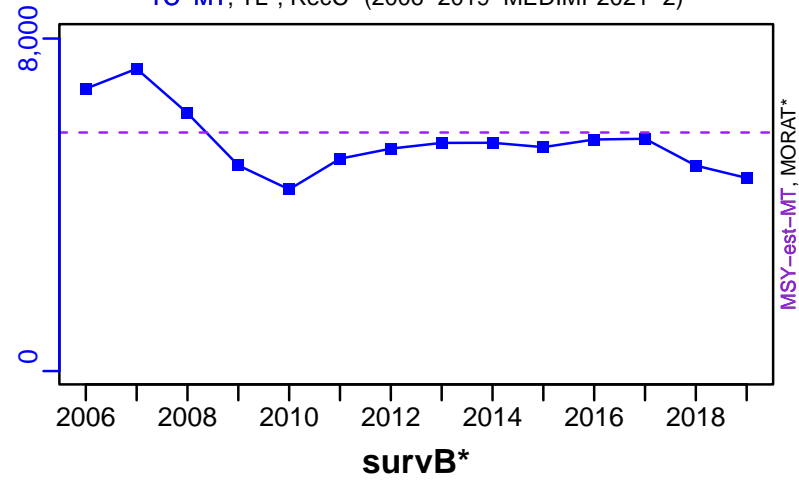
R-E00 (2006-2019-MEDIMP2021-2)



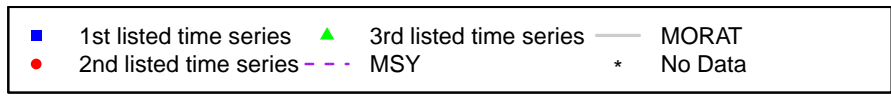
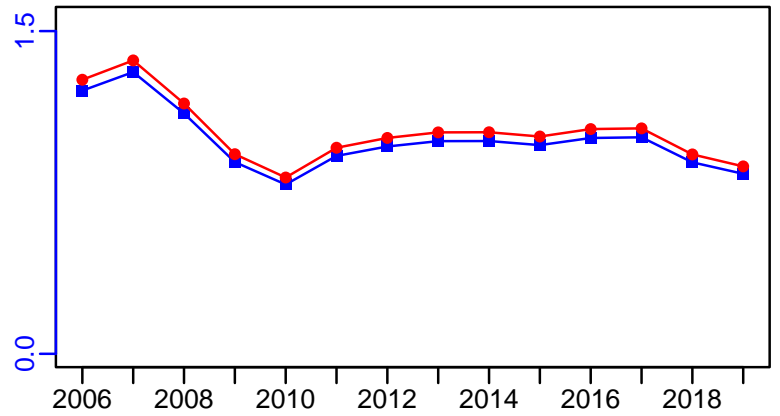
Red mullet Adriatic Sea (GSA 17,18) [RMULLMEDGSA17-18]

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

TAC*, Cpair*, Cadv*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006-2019-MEDIMP2021-2)



Red mullet Western Ionian Sea [RMULLMEDGSA19]

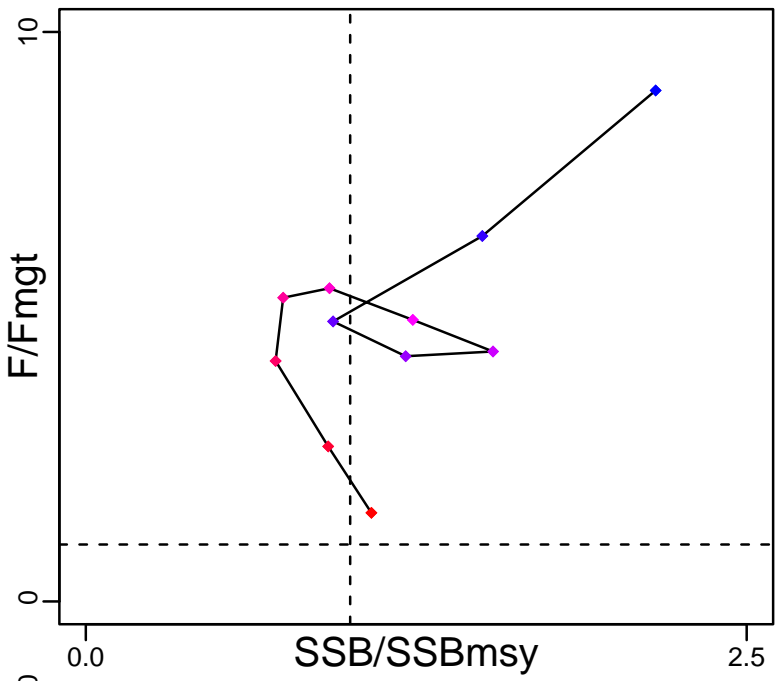
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	STECF-RMULLMEDGSA19-2006-2016-MEDIMP2021-2
Area	Western Ionian Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2016	0.36
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

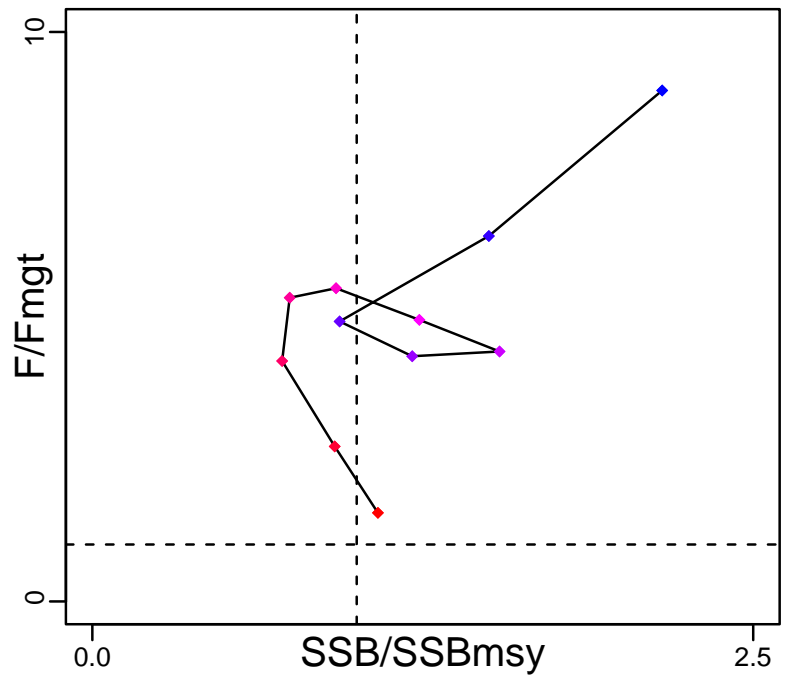
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	641	-	-
TN	-	-	-	-	-
R	R-E00	2016	27,230,000	-	-
F	F-1/yr	2016	0.56	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	278		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.556		
ER/ERmgt	-	-	-		

Red mullet Western Ionian Sea [RMULLMEDGSA19]

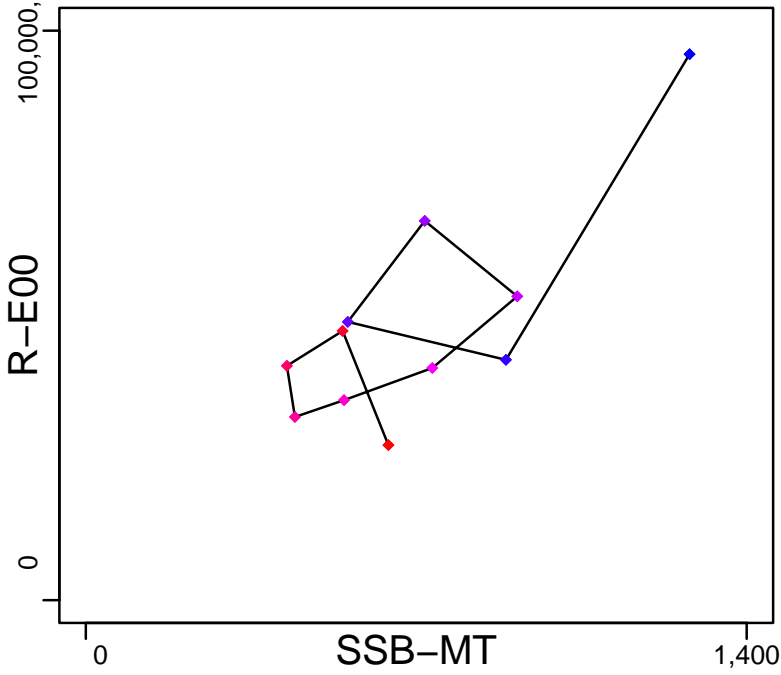
Kobe MSYpref (2006–2016–MEDIMP2021–2)



Kobe MGTpref (2006–2016–MEDIMP2021–2)



Spawner Recruit (2006–2016–MEDIMP2021–2)



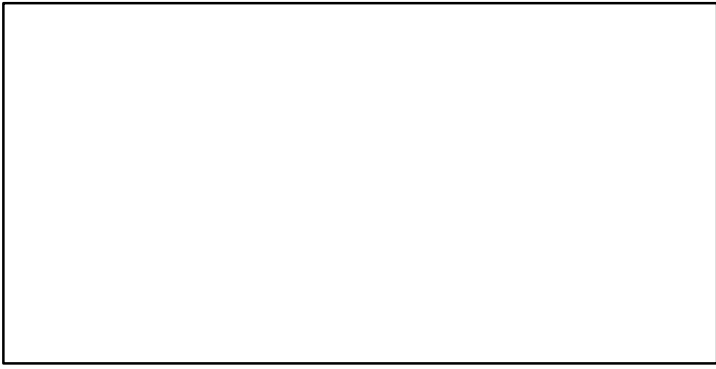
Production*



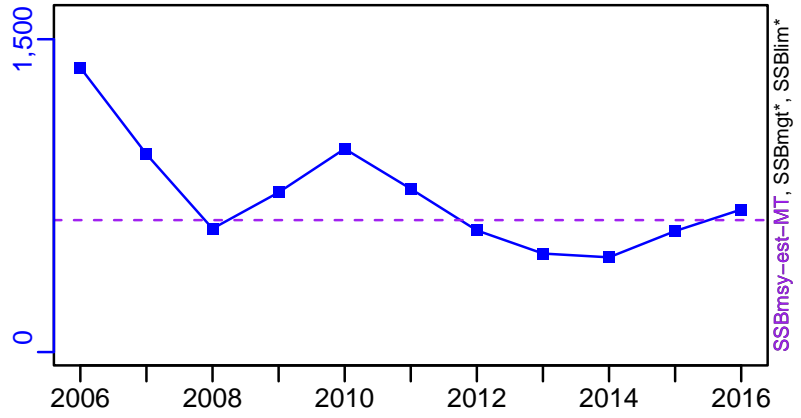
◆ Start Year ◆ End Year * No Data

Red mullet Western Ionian Sea [RMULLMEDGSA19]

TB*



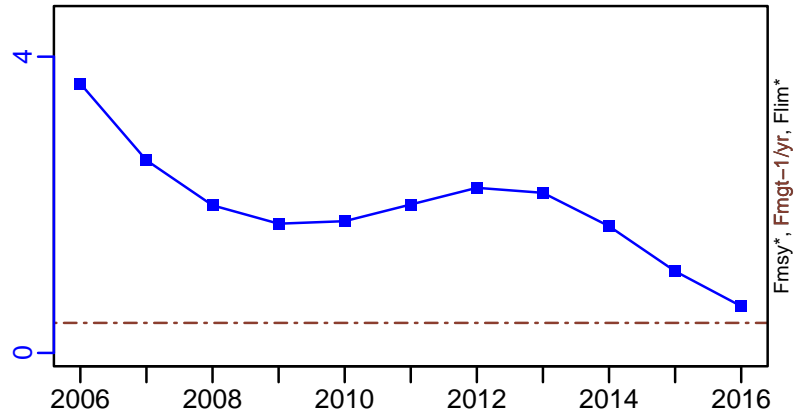
SSB-MT (2006-2016-MEDIMP2021-2)



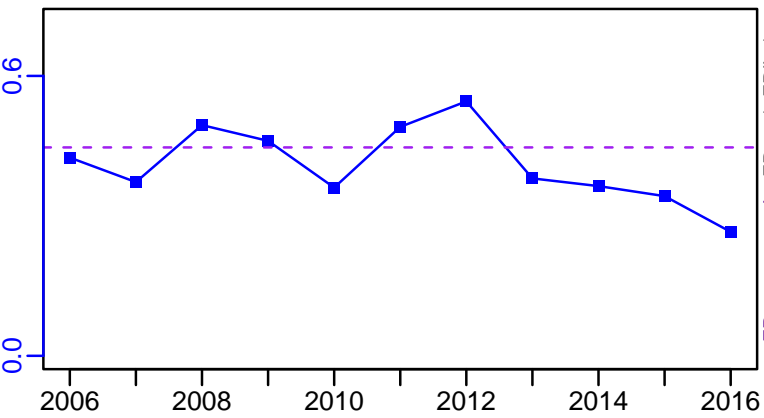
TN *



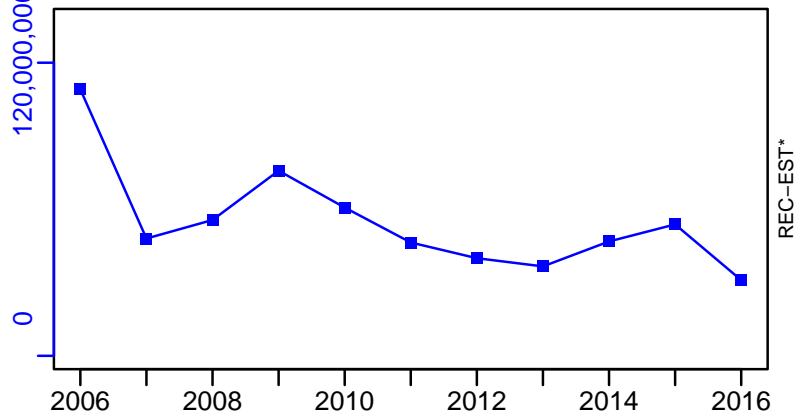
F-1/yr (2006-2016-MEDIMP2021-2)



ER-calc-ratio (2006-2016-MEDIMP2021-2)



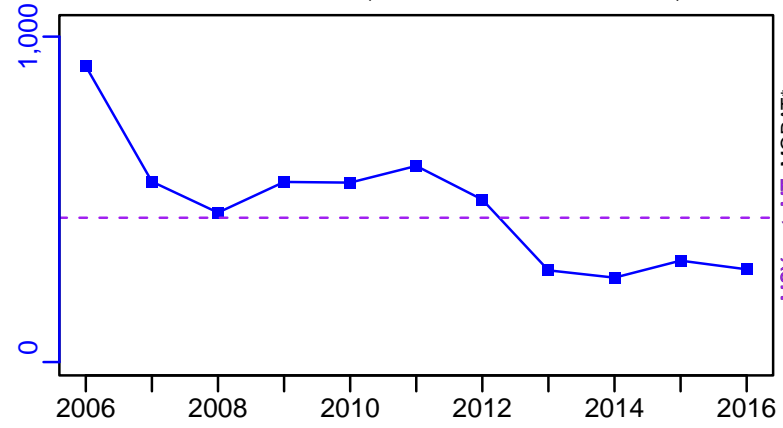
R-E00 (2006-2016-MEDIMP2021-2)



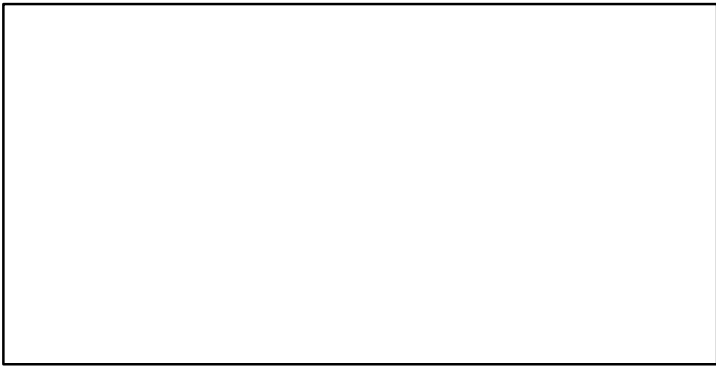
Red mullet Western Ionian Sea [RMULLMEDGSA19]

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

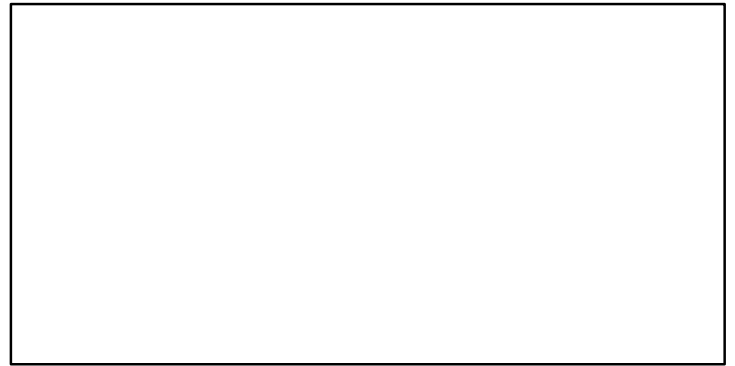
TAC*, Cpair*, Cadv*



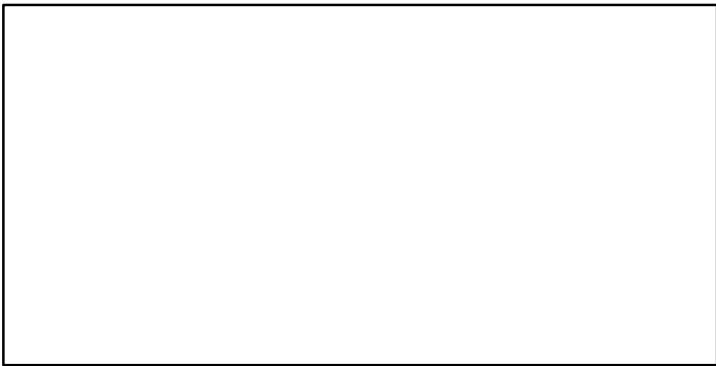
survB*



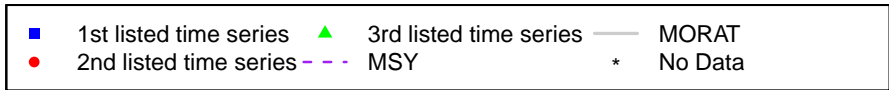
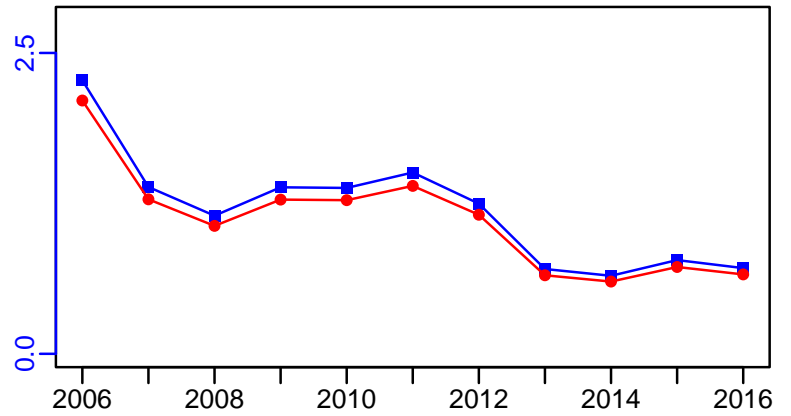
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006-2016-MEDIMP2021-2)



Red mullet Aegean Sea [RMULLMEDGSA22]

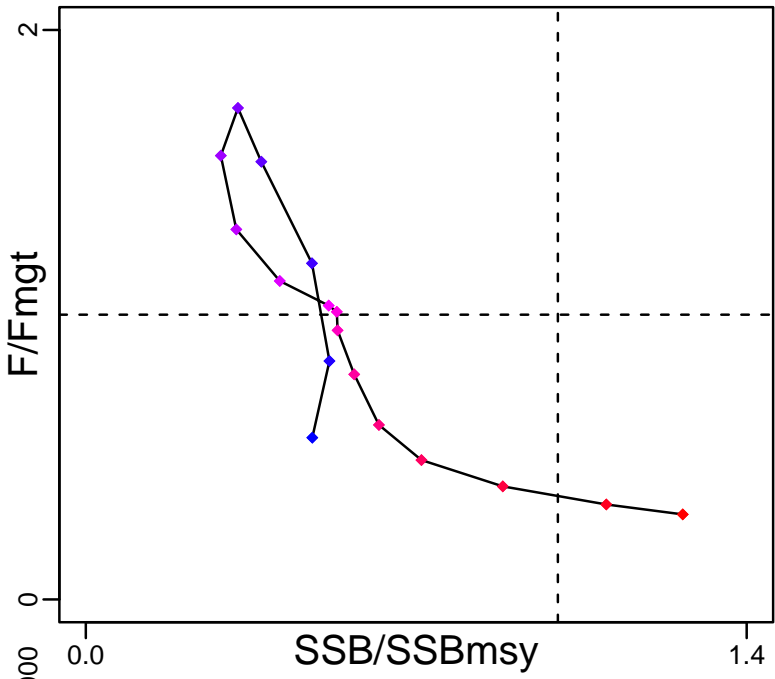
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	STECF-RMULLMEDGSA22-2003-2019-MEDIMP2021-2
Area	Aegean Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.501
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

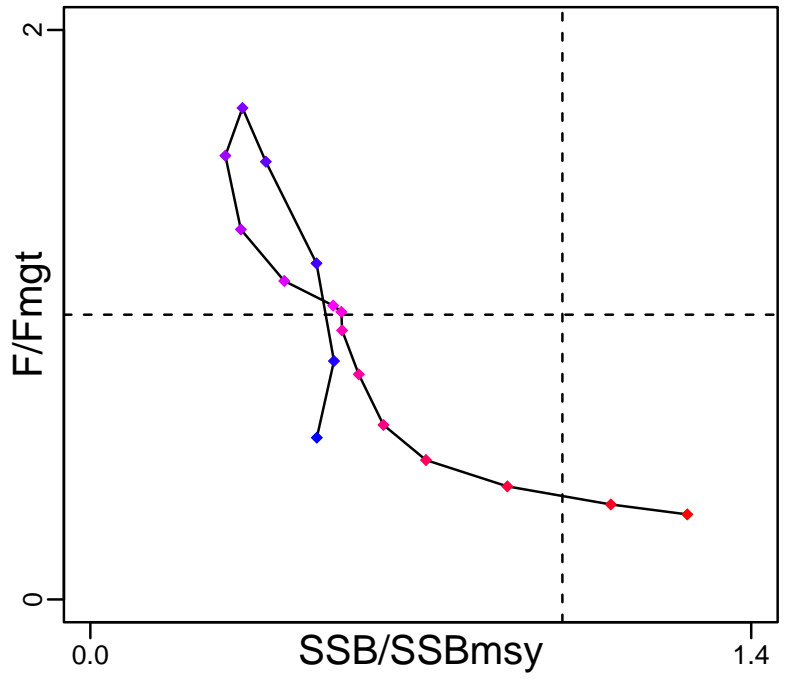
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	12,379	-	-
TN	-	-	-	-	-
R	R-E00	2019	2×10^{11}	-	-
F	F-1/yr	2019	0.15	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	1804		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.299		
ER/ERmgt	-	-	-		

Red mullet Aegean Sea [RMULLMEDGSA22]

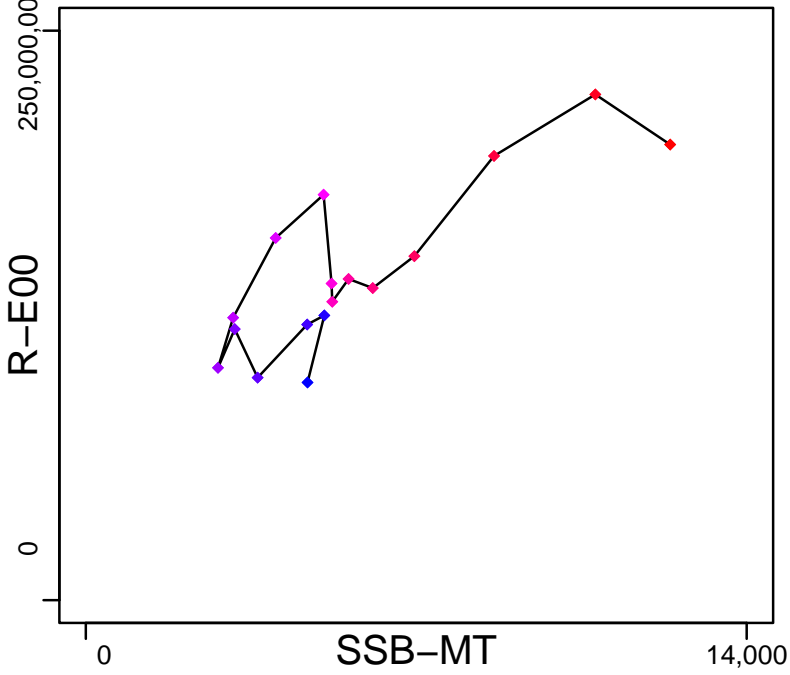
Kobe MSYpref (2003–2019–MEDIMP2021–2)



Kobe MGTpref (2003–2019–MEDIMP2021–2)



Spawner Recruit (2003–2019–MEDIMP2021–2)



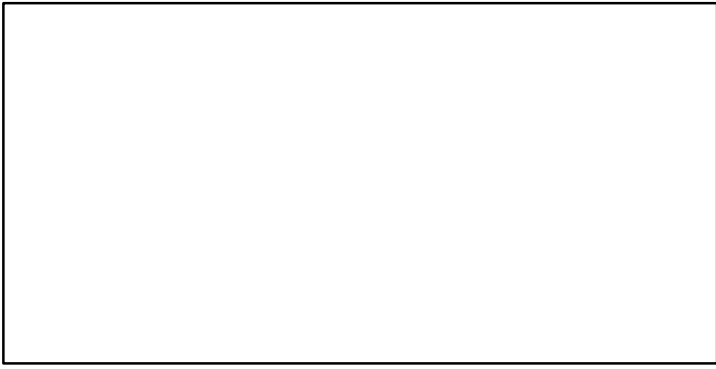
Production*



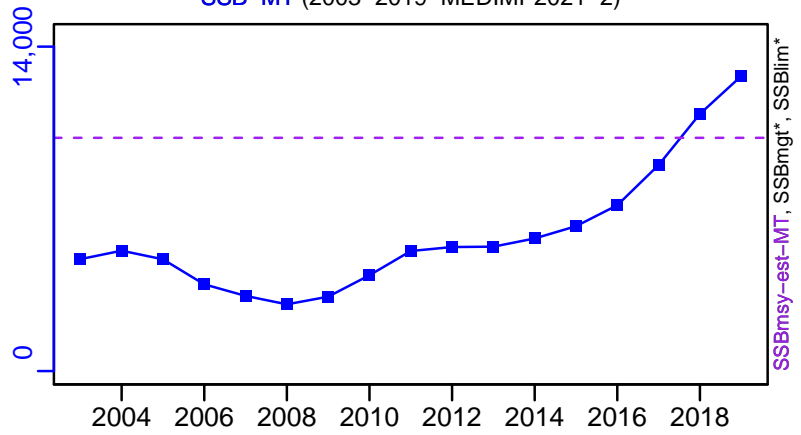
◆ Start Year ◆ End Year * No Data

Red mullet Aegean Sea [RMULLMEDGSA22]

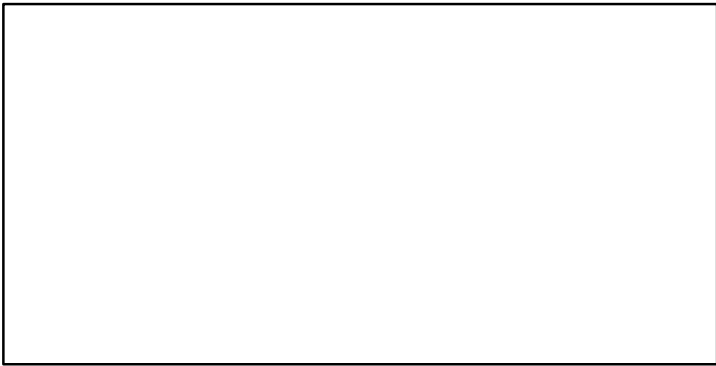
TB*



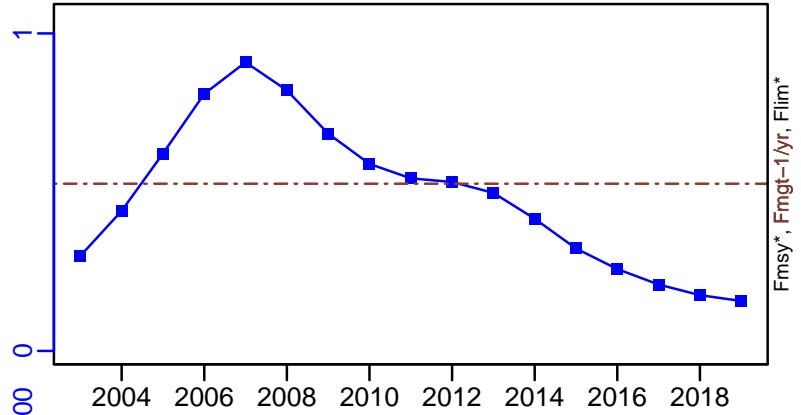
SSB-MT (2003-2019-MEDIMP2021-2)



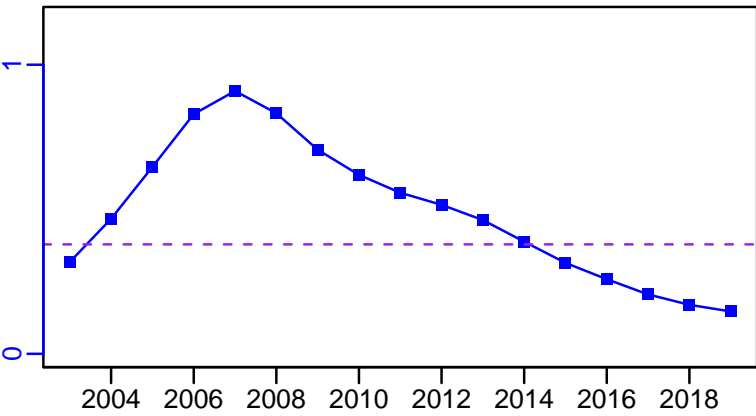
TN *



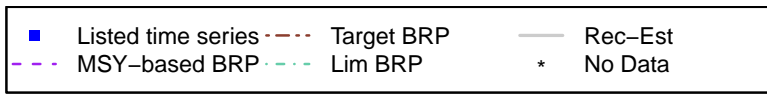
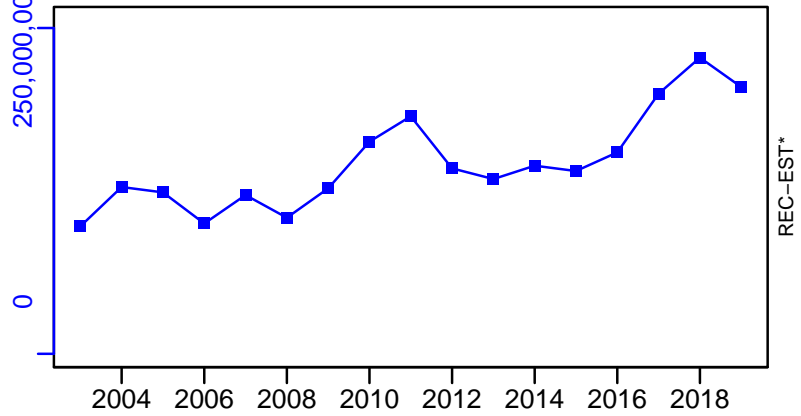
F-1/yr (2003-2019-MEDIMP2021-2)



ER-calc-ratio (2003-2019-MEDIMP2021-2)



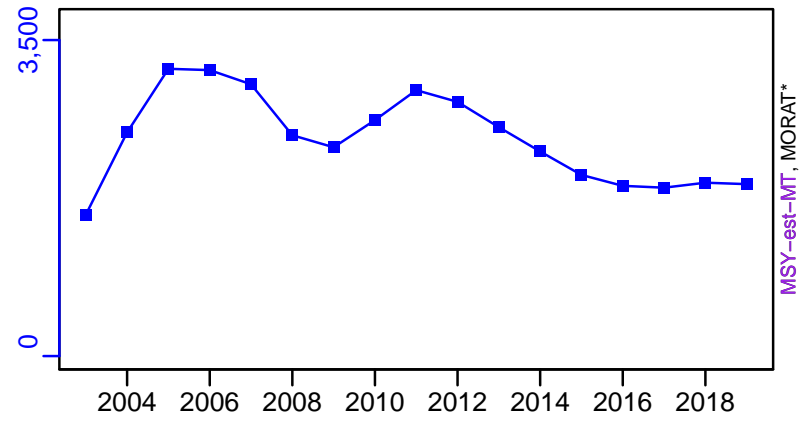
R-E00 (2003-2019-MEDIMP2021-2)



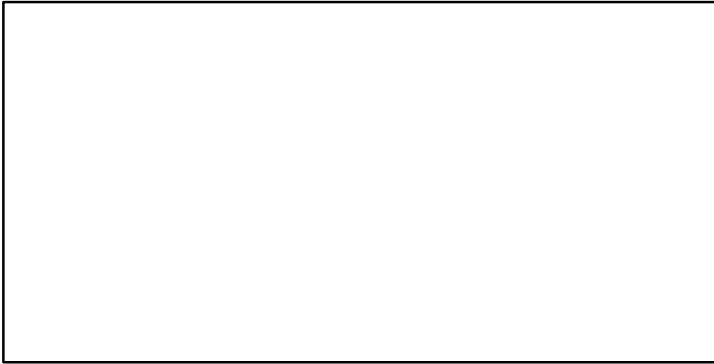
Red mullet Aegean Sea [RMULLMEDGSA22]

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

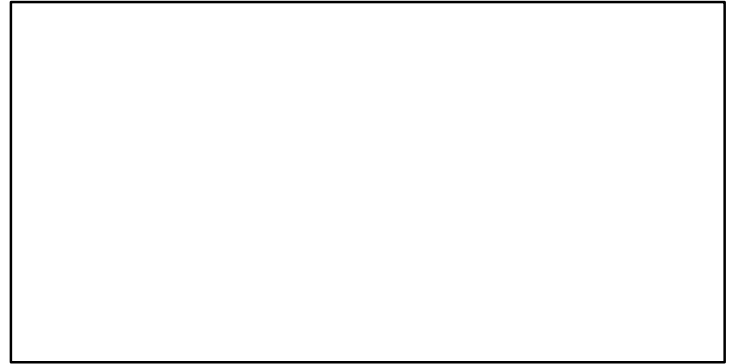
TAC*, Cpair*, Cadv*



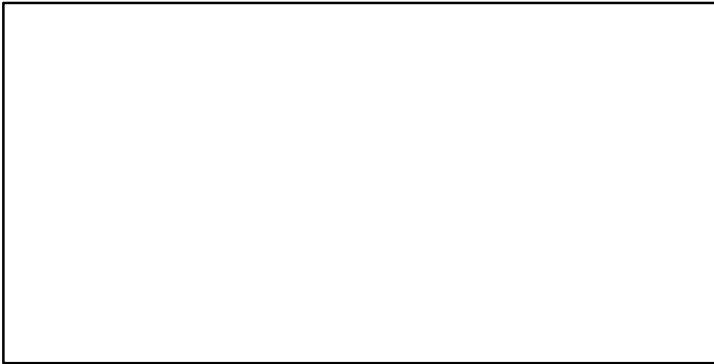
survB*



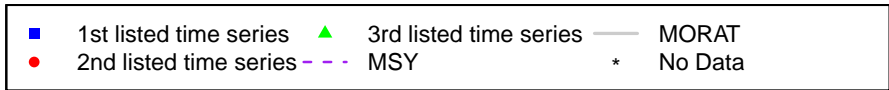
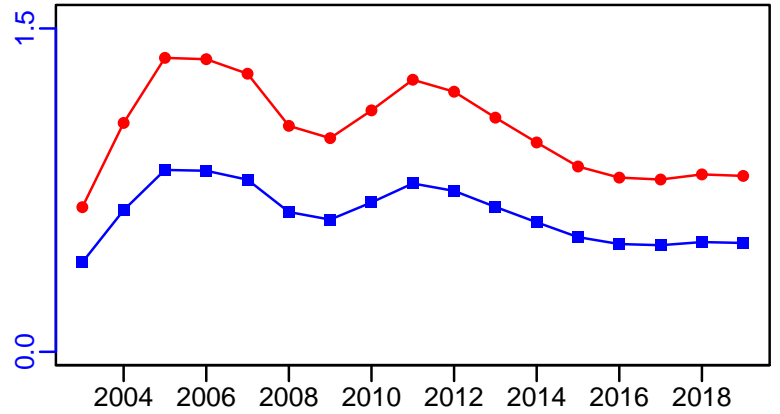
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2003-2019-MEDIMP2021-2)



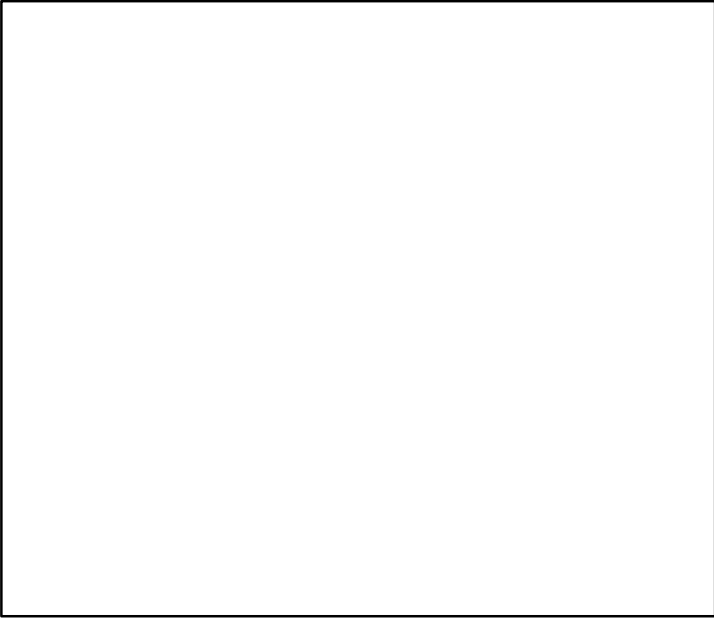
Red mullet Cyprus Island [RMULLMEDGSA25]

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

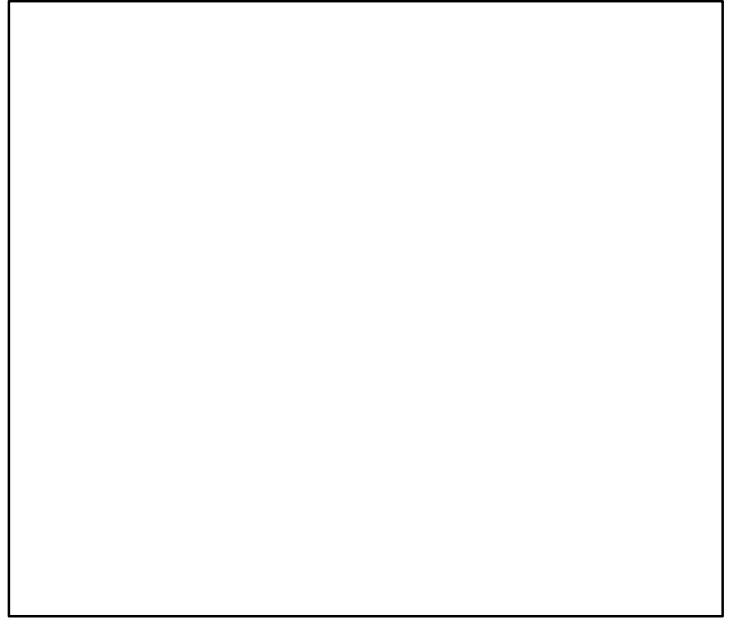
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2008	0.22
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2008	58	-	-
TN	-	-	-	-	-
R	R-E00	2008	1,480,000	-	-
F	F-1/yr	2008	0.84	-	-
ER	-	-	-	-	-
TC	TC-MT	2008	33		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2008	3.818		
ER/ERmgt	-	-	-		

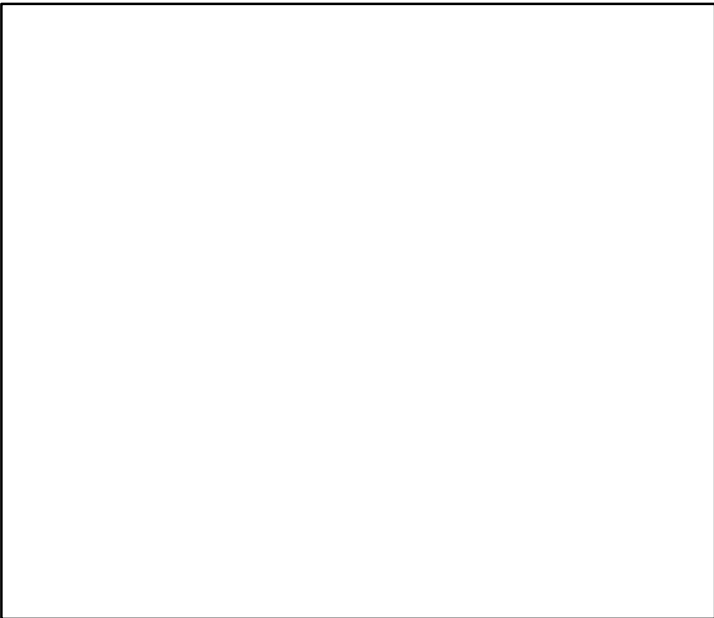
Kobe MSY*



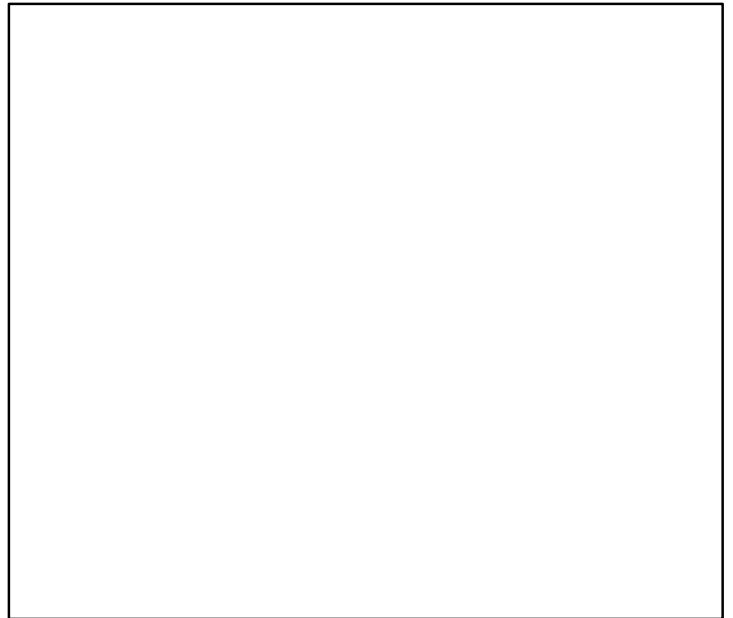
Kobe MGT*



Spawner Recruit*



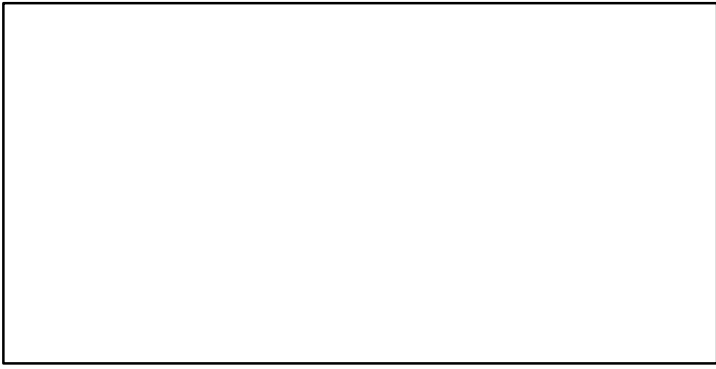
Production*



◆ Start Year ◆ End Year * No Data

Red mullet Cyprus Island [RMULLMEDGSA25]

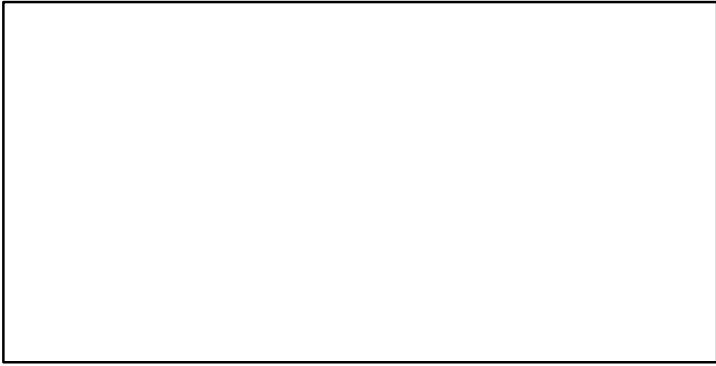
TB*



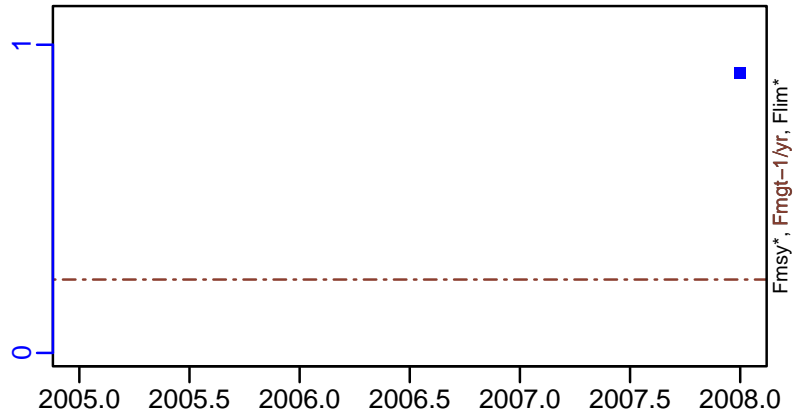
SSB-MT (2005-2008-OSIO)



TN *



F-1/yr (2005-2008-OSIO)



ER-calc-ratio (2005-2008-OSIO)



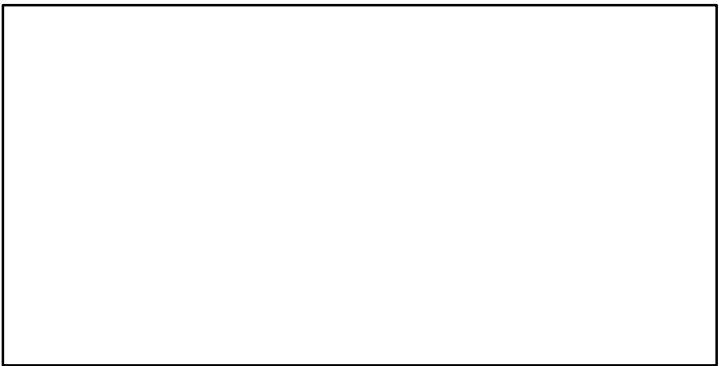
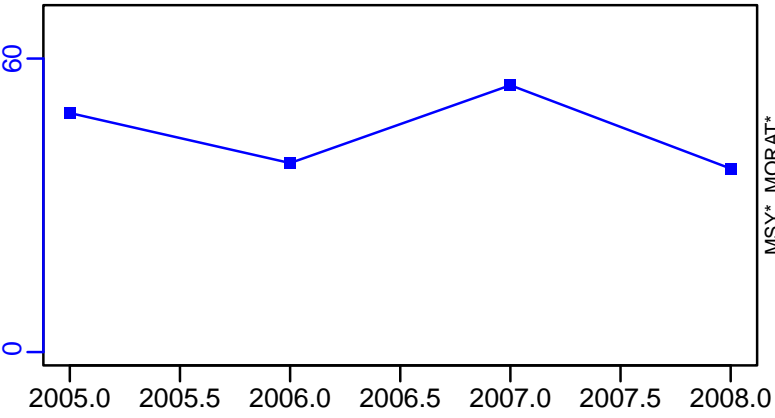
R-E00 (2005-2008-OSIO)



Red mullet Cyprus Island [RMULLMEDGSA25]

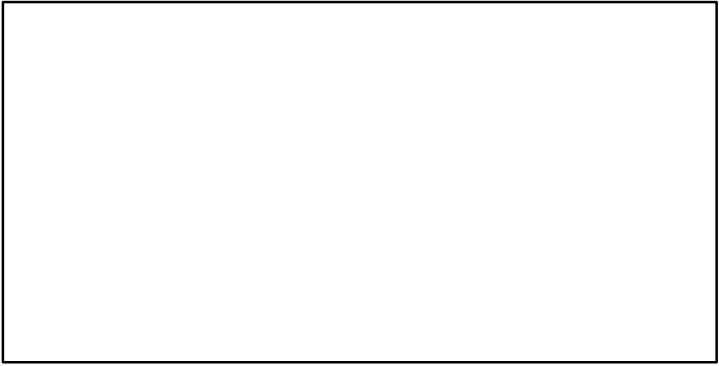
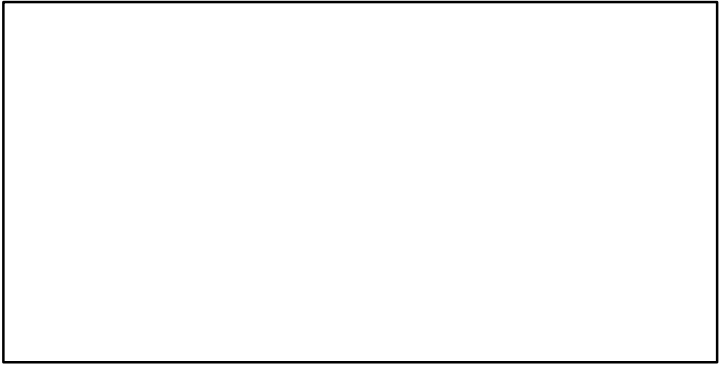
TC-MT, TL*, RecC* (2005-2008-OSIO)

TAC*, Cpair*, Cadv*



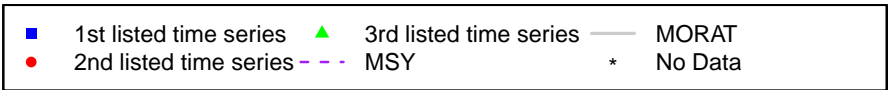
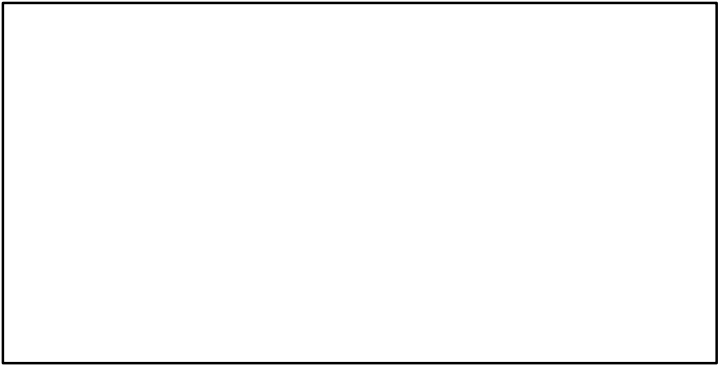
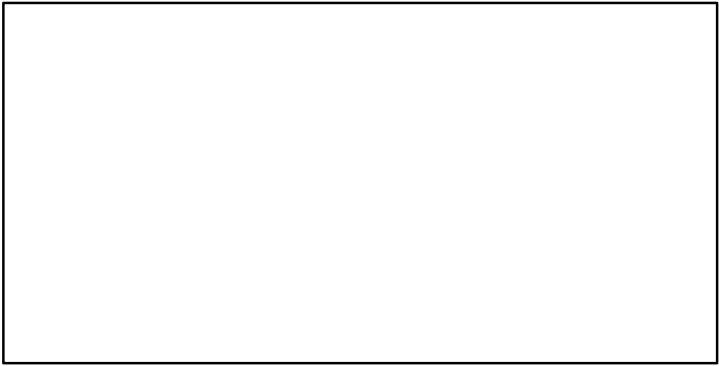
survB*

CPUE*



EFFORT*

CdivMSY*



Red mullet Black Sea [RMULLMEDGSA29]

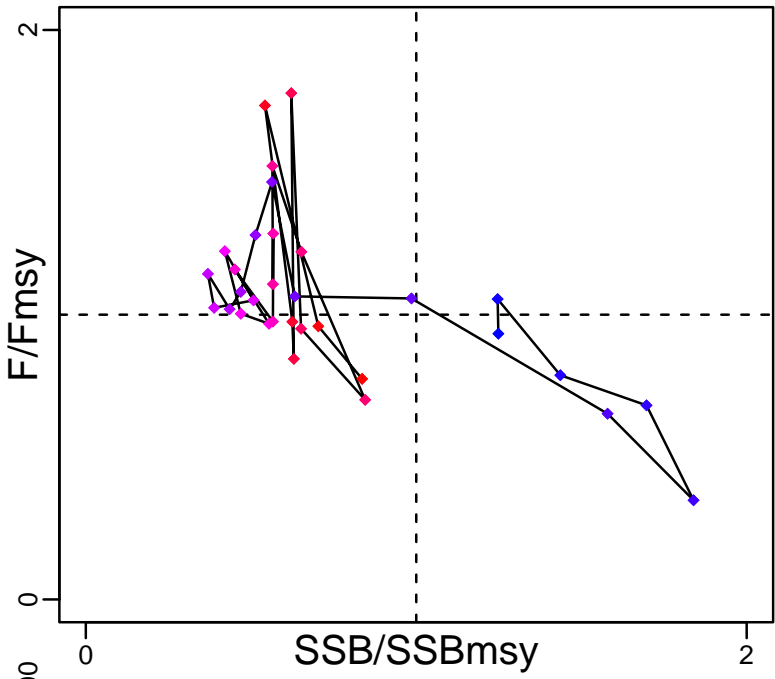
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	SGSABS-RMULLMEDGSA29-1990-2021-HIVELY
Area	Black Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Subregional Group on Stock Assessment for the Black Sea
Asmts in RAM	2021, 2014,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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.7
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.7
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

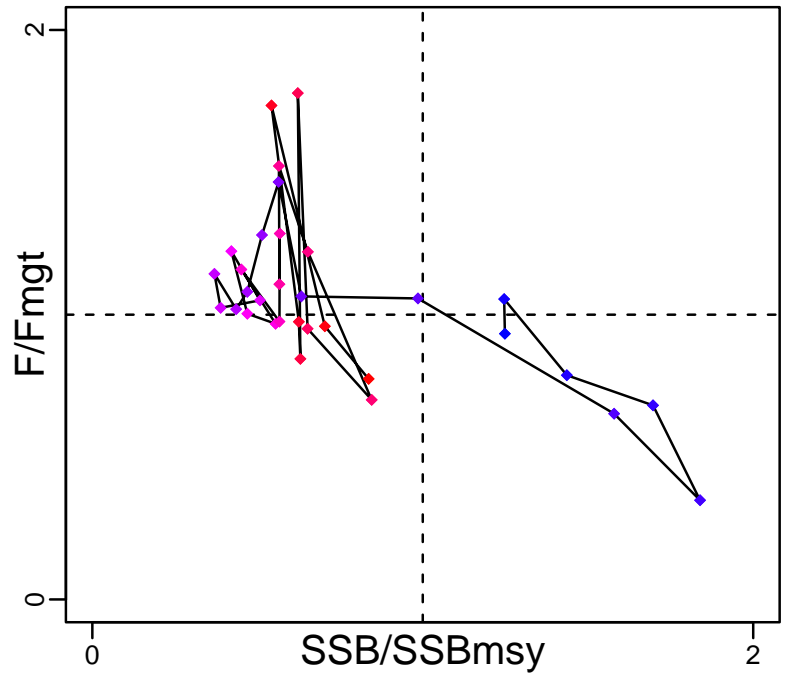
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	6933	-	-
TN	-	-	-	-	-
R	R-E00	2021	2,822,999,790	-	0
F	F-1/yr	2021	0.542	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	3617	-	-
TL	TL-MT	2021	3151	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.775	-	-
ER/ERmsy	-	-	-	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.775	-	-
ER/ERmgt	-	-	-	-	-

Red mullet Black Sea [RMULLMEDGSA29]

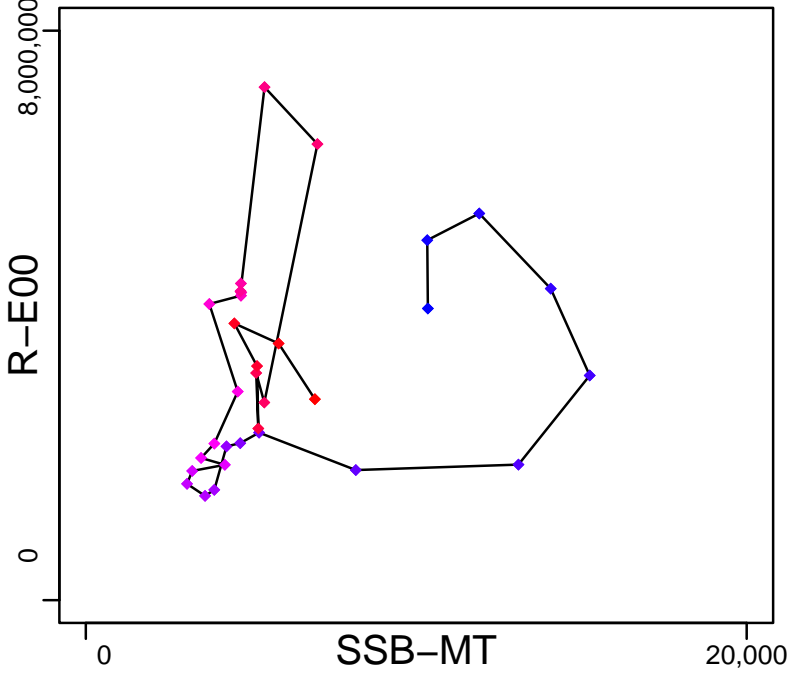
Kobe MSYpref (1990–2021–HIVELY)



Kobe MGTpref (1990–2021–HIVELY)



Spawner Recruit (1990–2021–HIVELY)



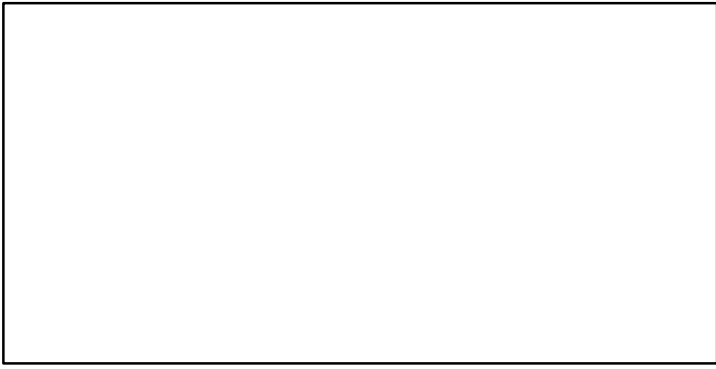
Production*



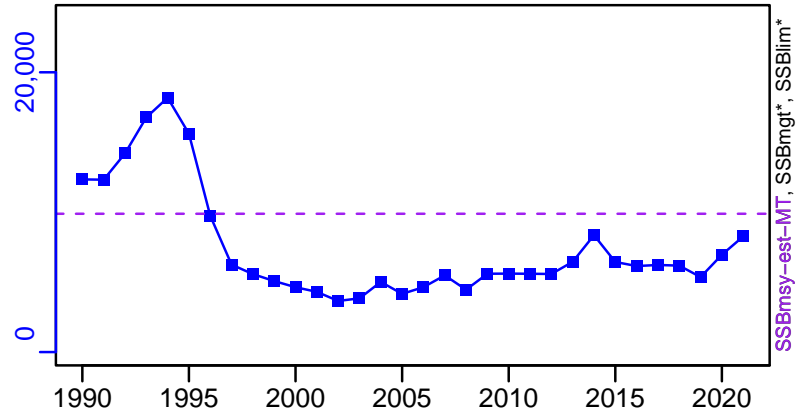
◆ Start Year ◆ End Year * No Data

Red mullet Black Sea [RMULLMEDGSA29]

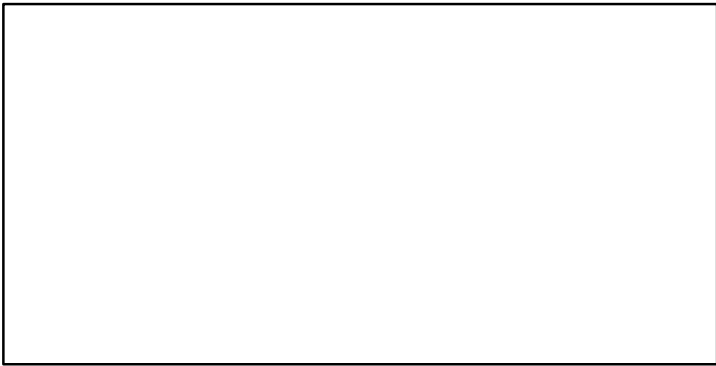
TB*



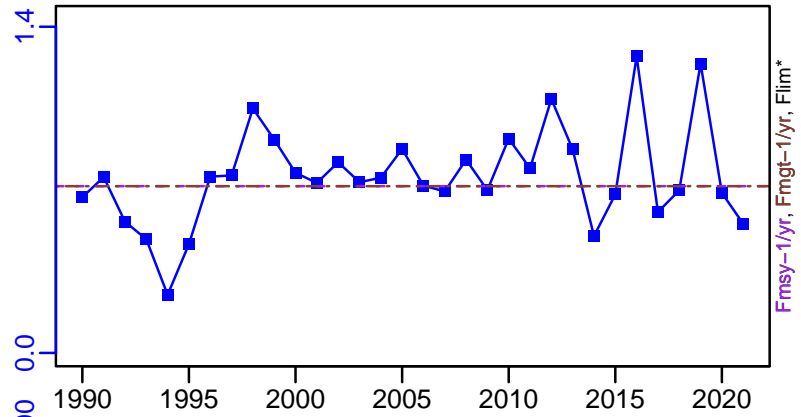
SSB-MT (1990-2021-HIVELY)



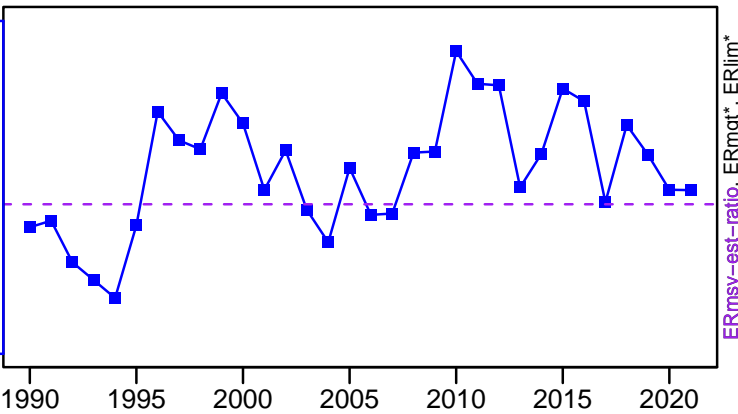
TN *



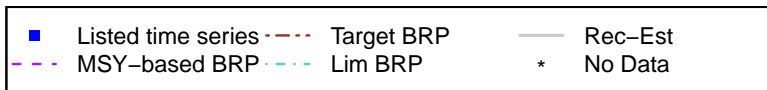
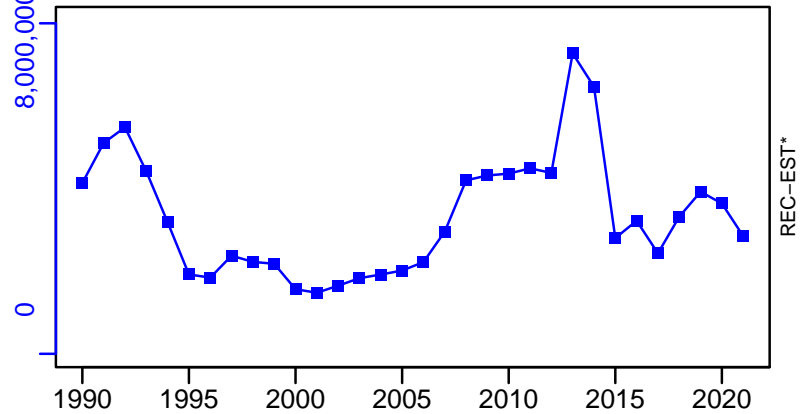
F-1/yr (1990-2021-HIVELY)



ER-calc-ratio (1990-2021-HIVELY)



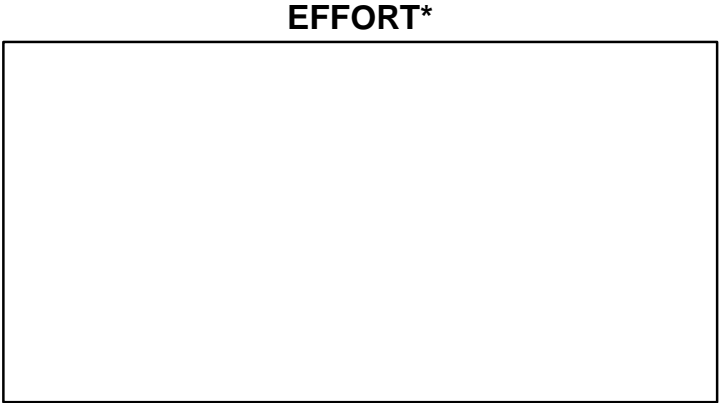
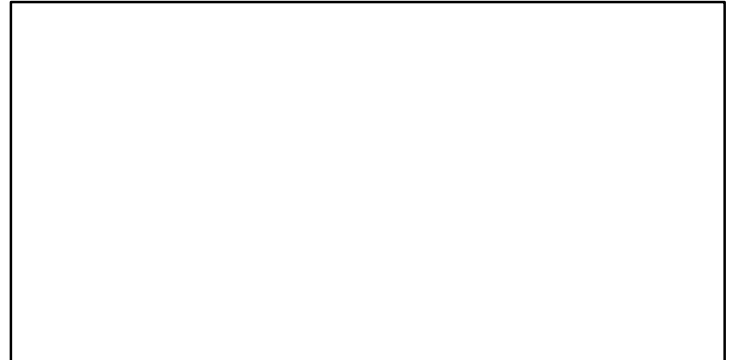
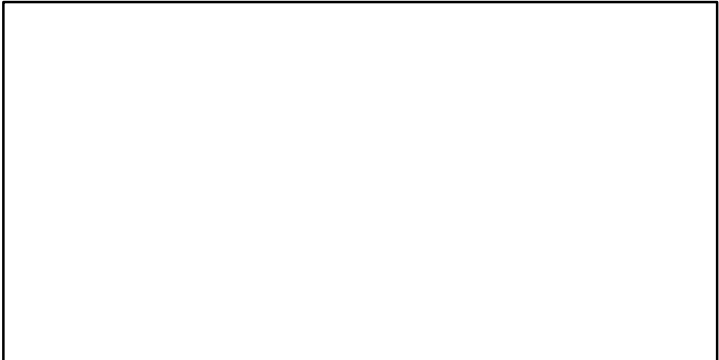
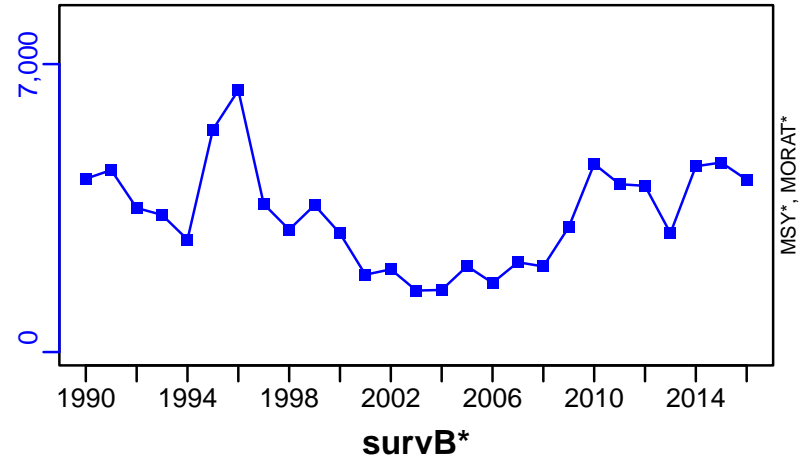
R-E00 (1990-2021-HIVELY)



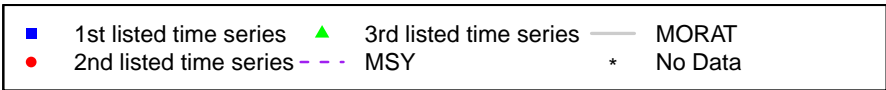
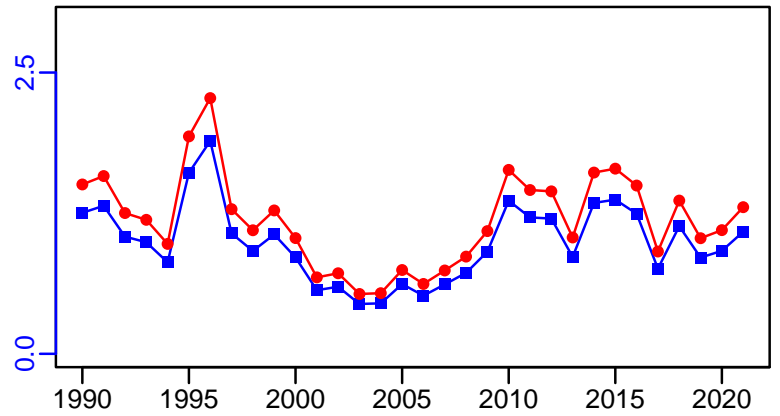
Red mullet Black Sea [RMULLMEDGSA29]

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

TAC*, Cpair*, Cadv*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1990-2021-HIVELY)



Red mullet Balearic Island [RMULLMEDGSA5]

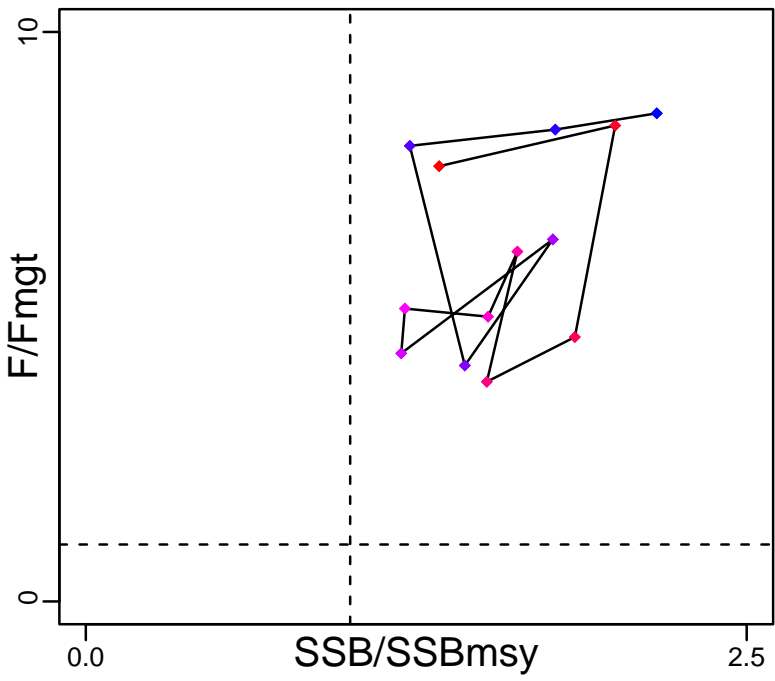
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	STECF-RMULLMEDGSA5-2000-2012-OSIO
Area	Balearic Island
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2012

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

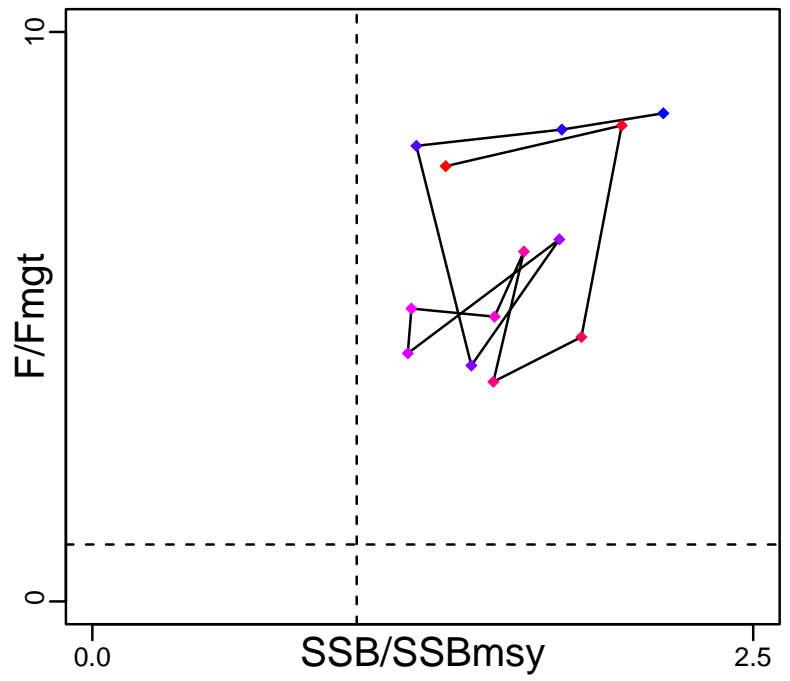
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	29	-	1+
TN	-	-	-	-	-
R	R-E00	2012	1,050,000	-	-
F	F-1/yr	2012	1.07	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	16		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		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

Red mullet Balearic Island [RMULLMEDGSA5]

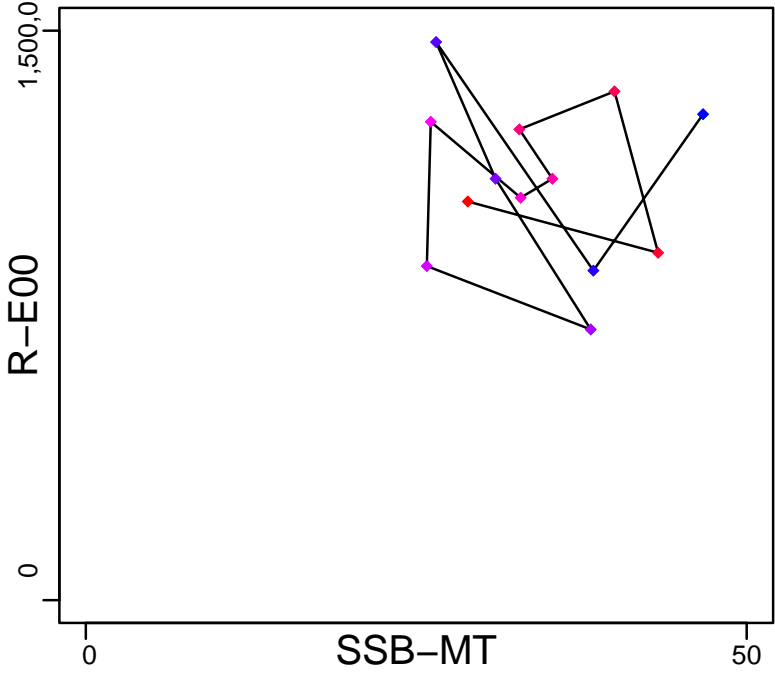
Kobe MSYpref (2000–2012–OSIO)



Kobe MGTpref (2000–2012–OSIO)



Spawner Recruit (2000–2012–OSIO)



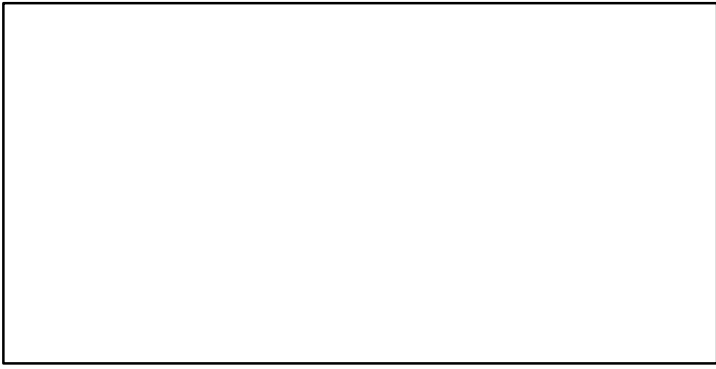
Production*



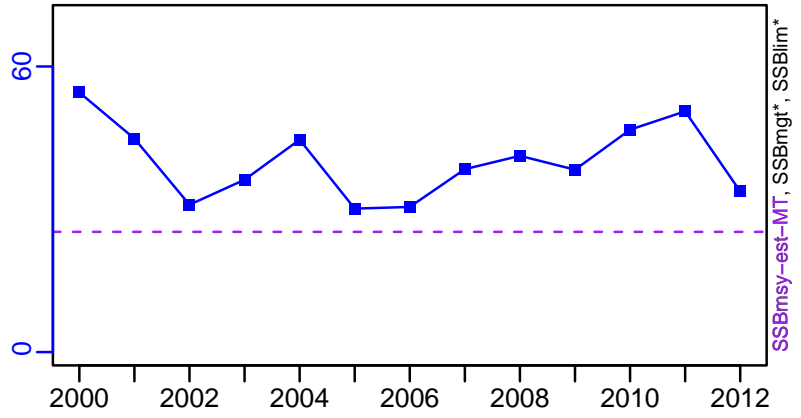
◆ Start Year ◆ End Year * No Data

Red mullet Balearic Island [RMULLMEDGSA5]

TB*



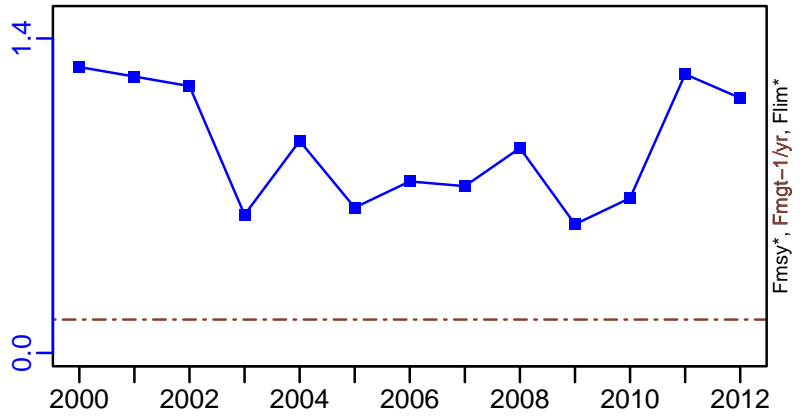
SSB-MT (2000-2012-OSIO)



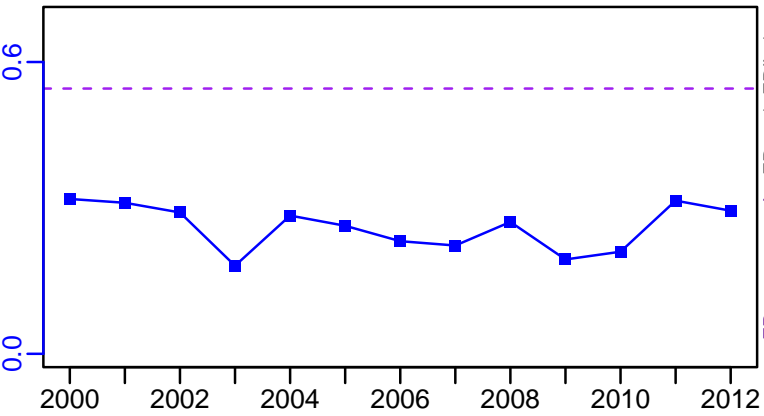
TN *



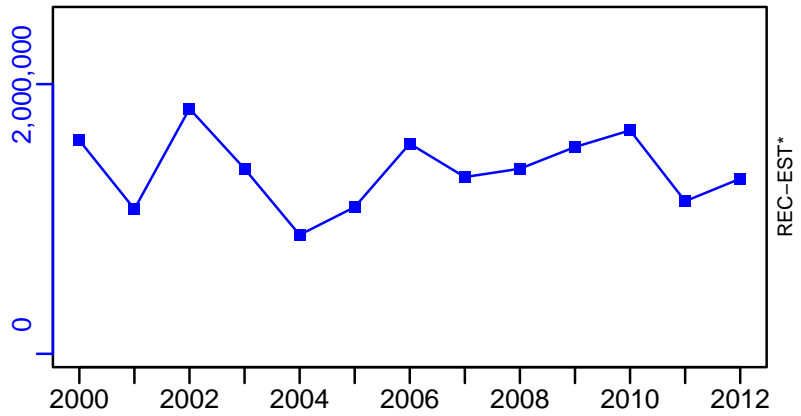
F-1/yr (2000-2012-OSIO)



ER-calc-ratio (2000-2012-OSIO)

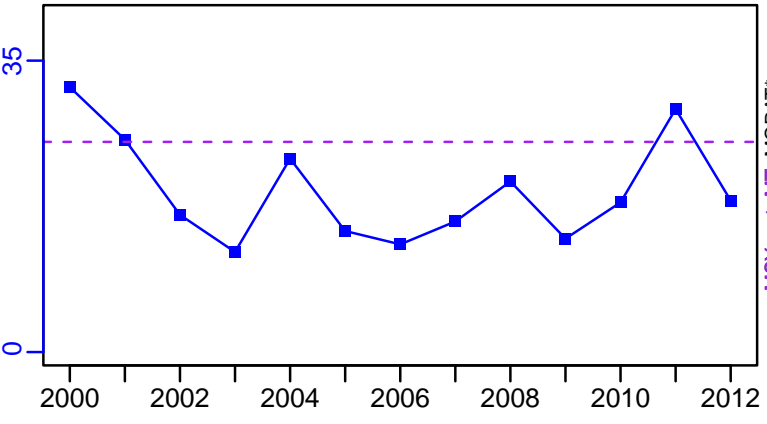


R-E00 (2000-2012-OSIO)



Red mullet Balearic Island [RMULLMEDGSA5]

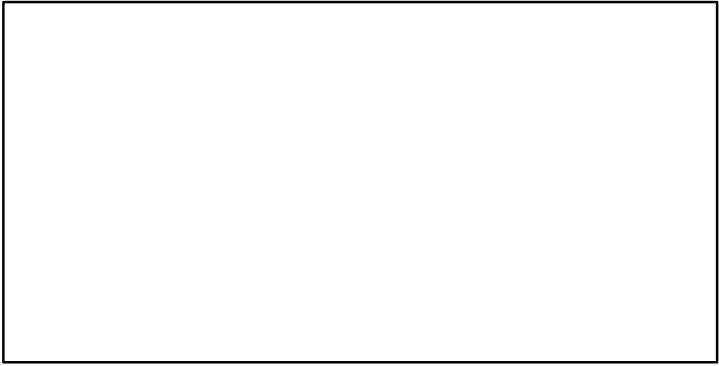
TC-MT, TL*, RecC* (2000-2012-OSIO)



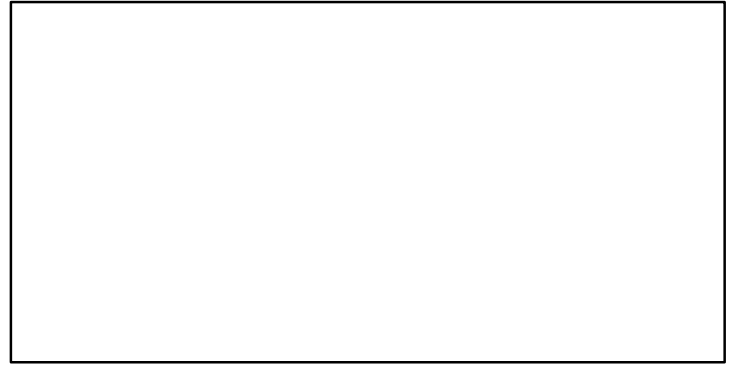
TAC*, Cpair*, Cadv*



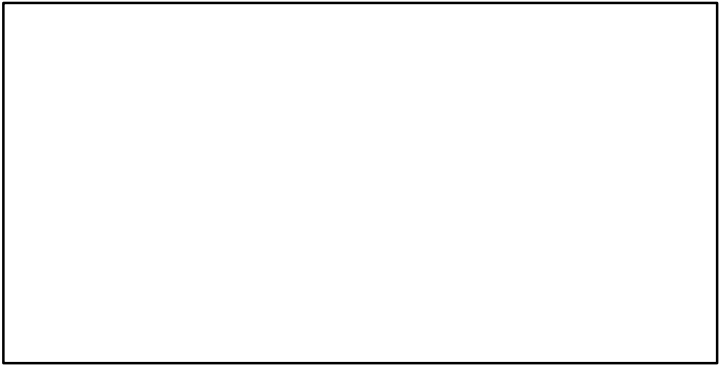
survB*



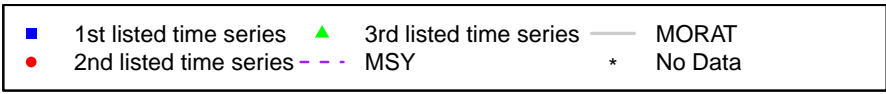
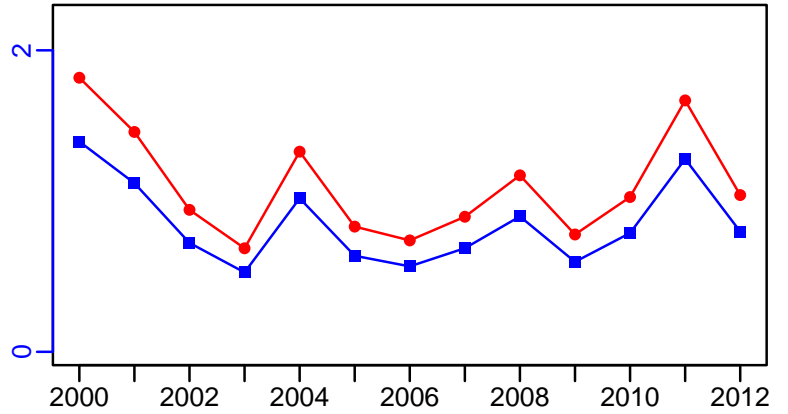
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2000-2012-OSIO)



Red mullet Northern Spain [RMULLMEDGSA6]

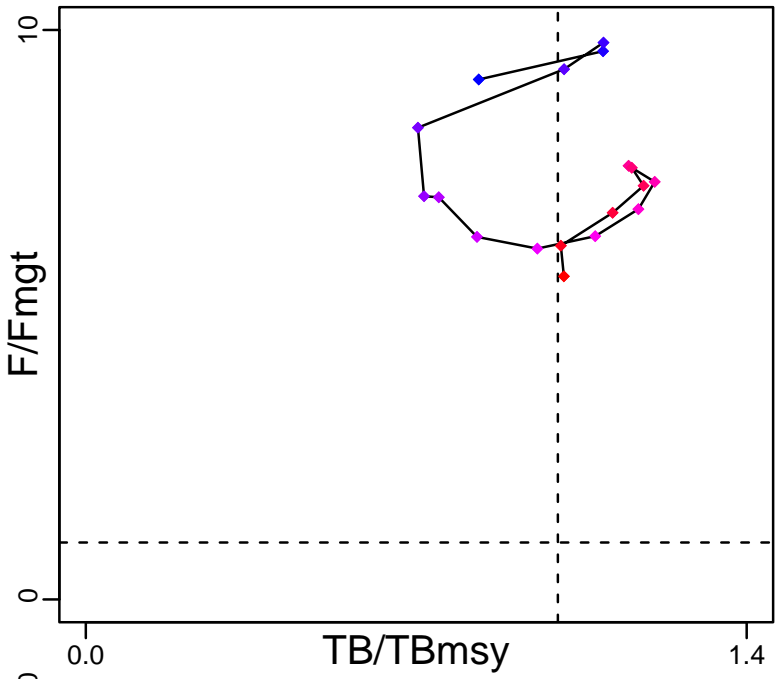
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	WGSAD-RMULLMEDGSA6-2004-2021-HIVELY
Area	Northern Spain
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Working Group on Stock Assessment of Demersal Species
Asmts in RAM	2013, 2019,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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.25
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

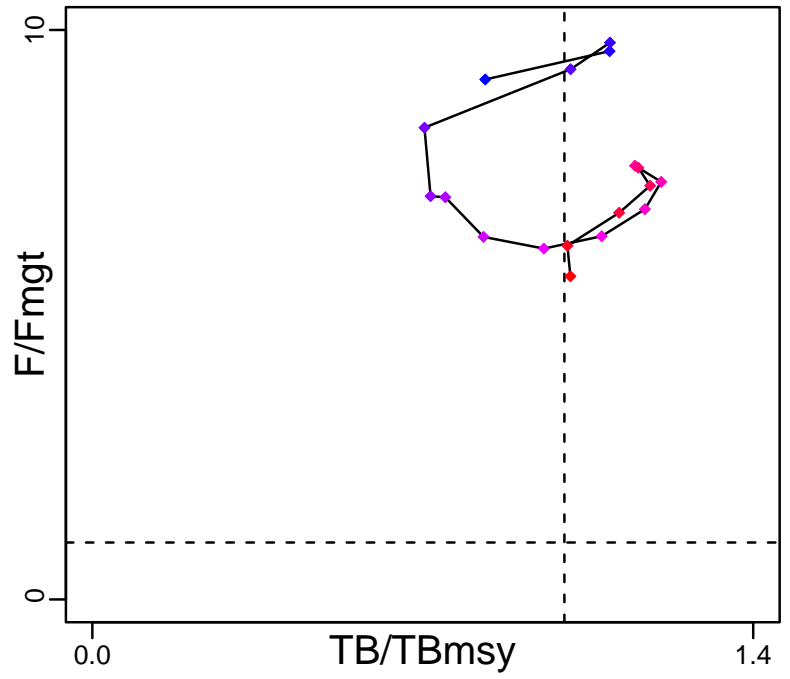
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2021	3006	-	-
SSB	SSB-MT	2021	849	-	-
TN	-	-	-	-	-
R	R-E00	2021	99,163,000	-	-
F	F-1/yr	2021	1.419	-	-
ER	ER-calc-ratio	2021	0.327	-	-
TC	TC-MT	2019	1546		
TL	TL-MT	2021	982		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	5.674		
ER/ERmgt	-	-	-		

Red mullet Northern Spain [RMULLMEDGSA6]

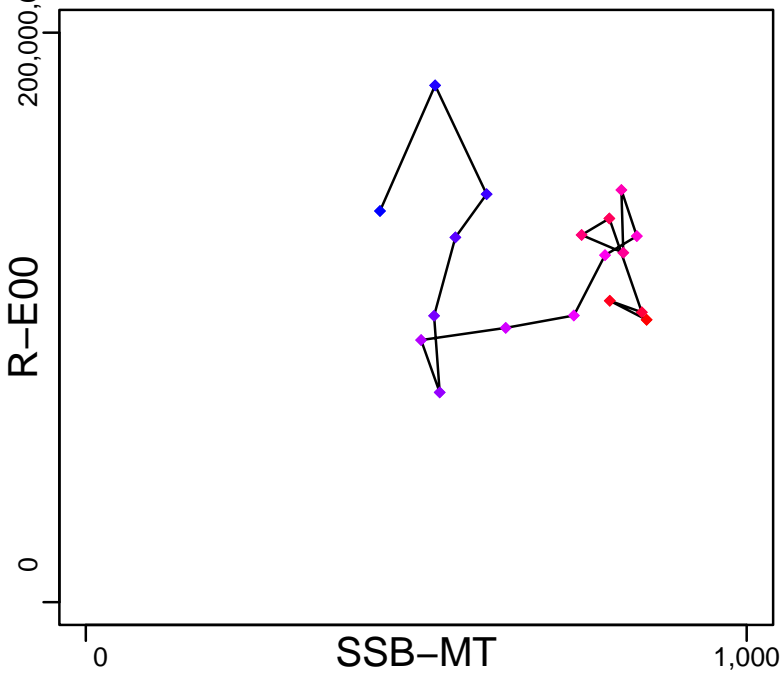
Kobe MSYpref (2004–2021–HIVELY)



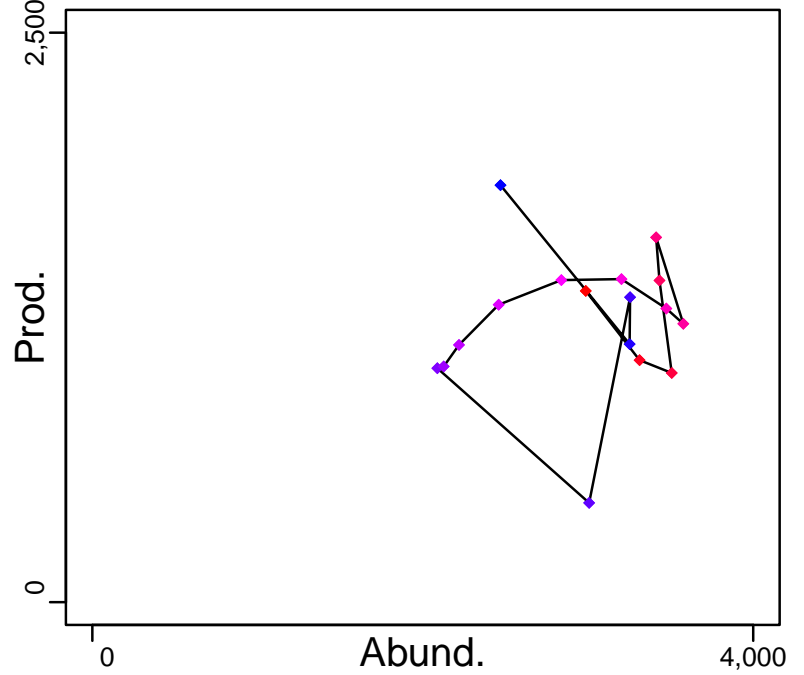
Kobe MGTpref (2004–2021–HIVELY)



Spawner Recruit (2004–2021–HIVELY)



Production (2004–2021–HIVELY)

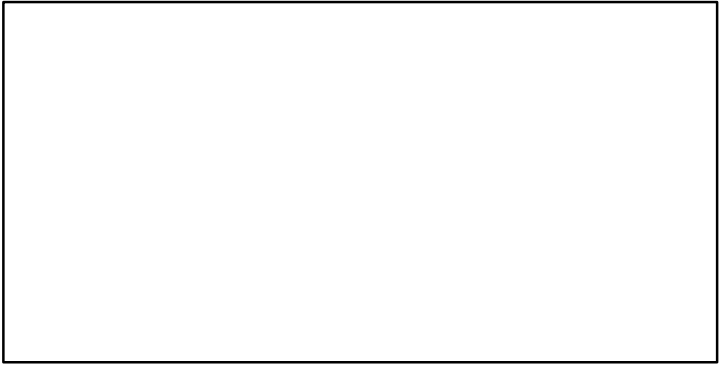
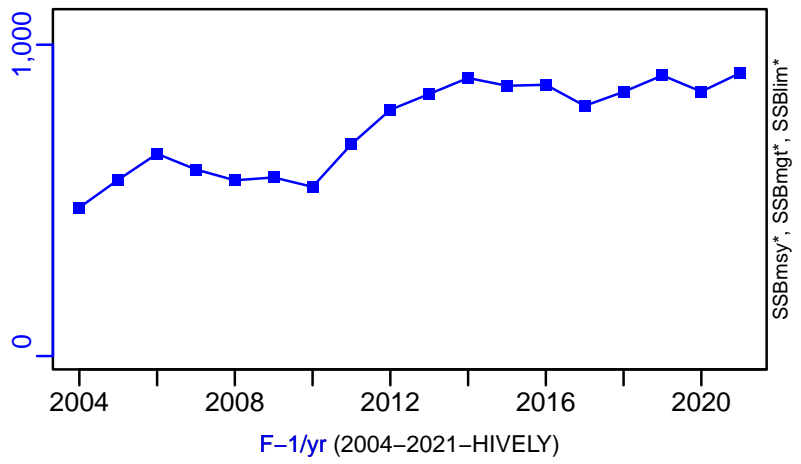
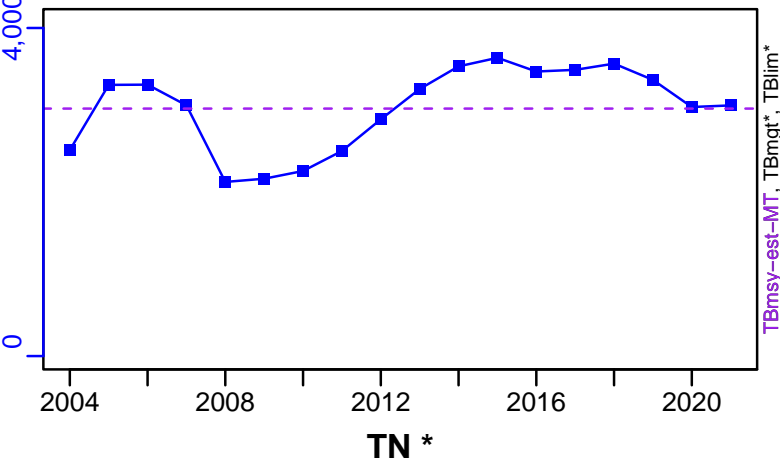


◆ Start Year ◆ End Year * No Data

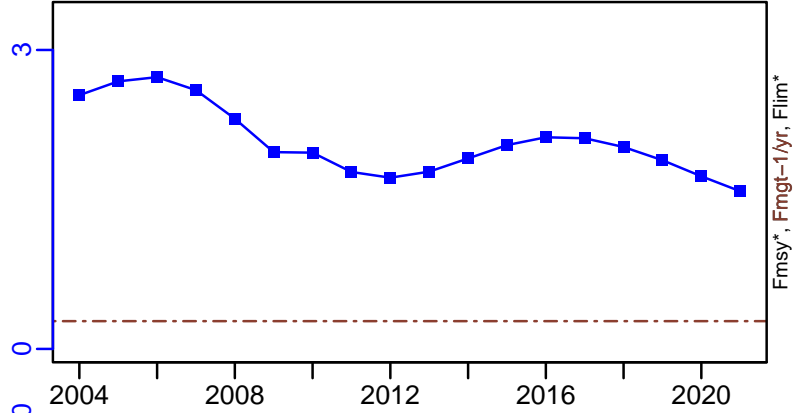
Red mullet Northern Spain [RMULLMEDGSA6]

TB-MT (2004-2021-HIVELY)

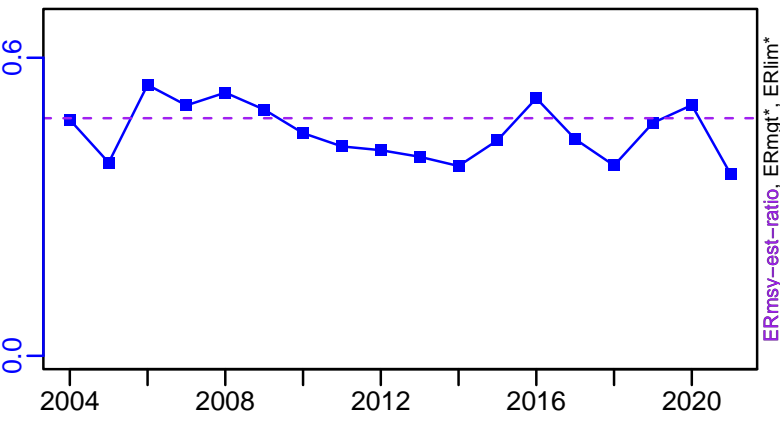
SSB-MT (2004-2021-HIVELY)



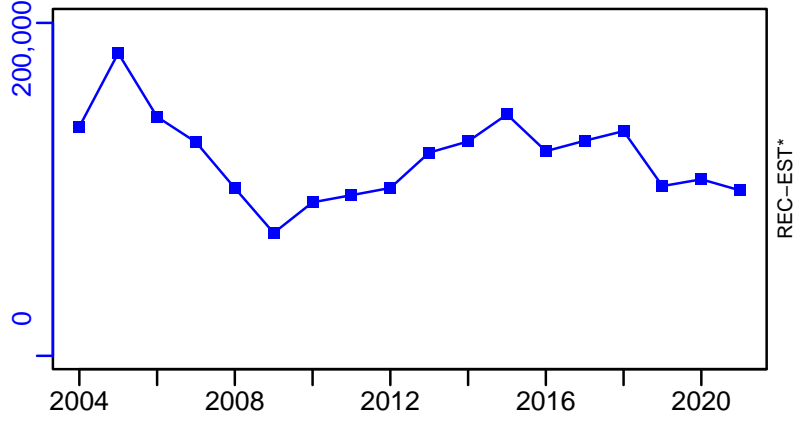
F-1/yr (2004-2021-HIVELY)



ER-calc-ratio (2004-2021-HIVELY)



R-E00 (2004-2021-HIVELY)

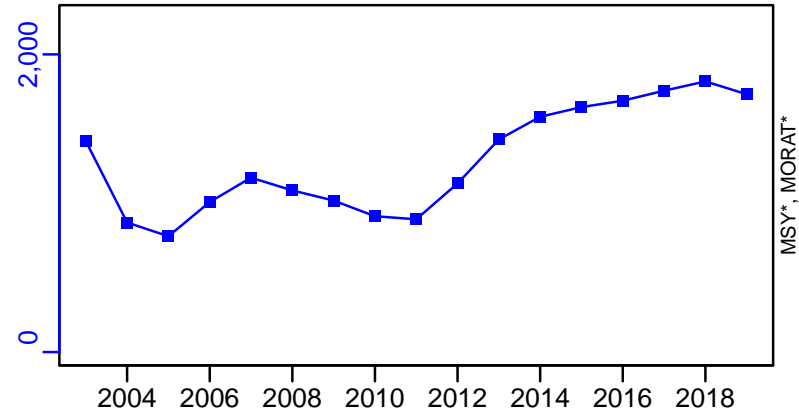


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	- - - Lim BRP	* No Data

Red mullet Northern Spain [RMULLMEDGSA6]

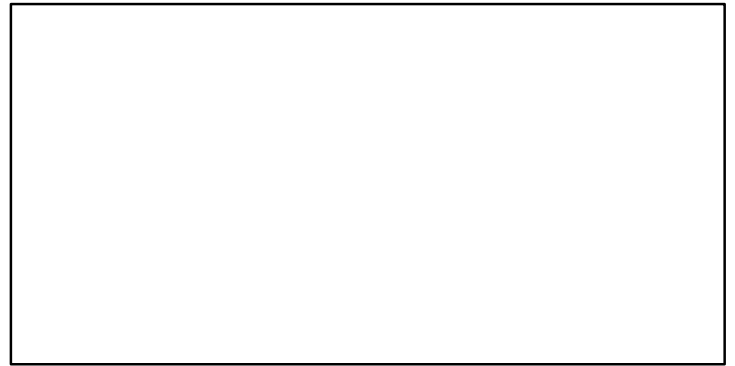
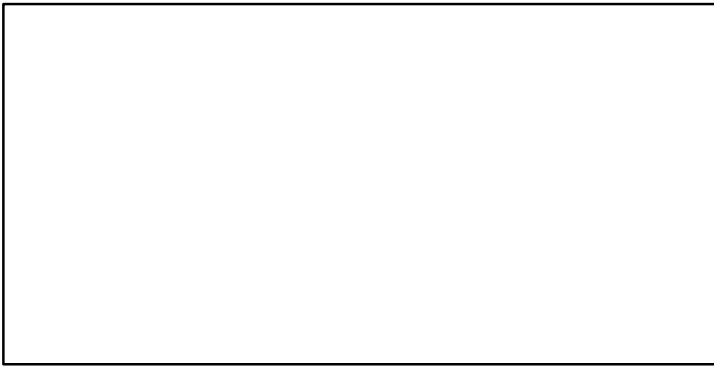
TC-MT, TL*, RecC* (2003-2019-MEDIMP2021-2)

TAC*, Cpair*, Cadv*



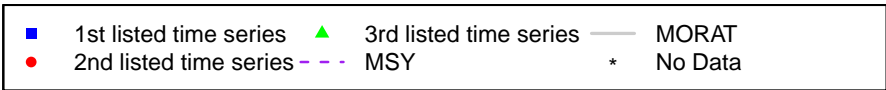
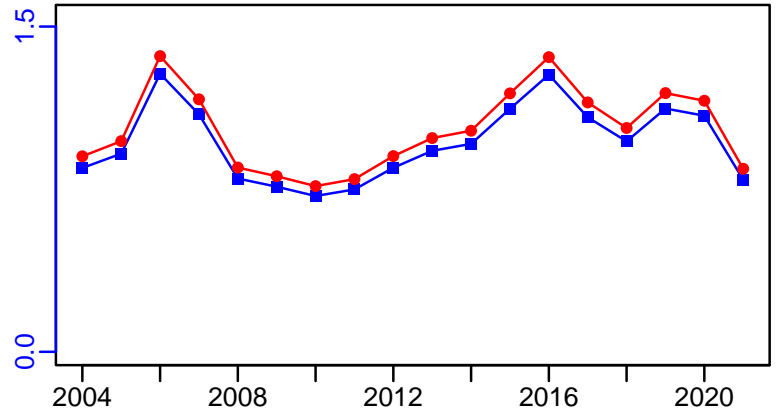
survB*

CPUE*



EFFORT*

TL-MT/MSY-est-MT, CdivMEANC-ratio, (2004-2021-HIVELY)



Red mullet Gulf of Lions [RMULLMEDGSA7]

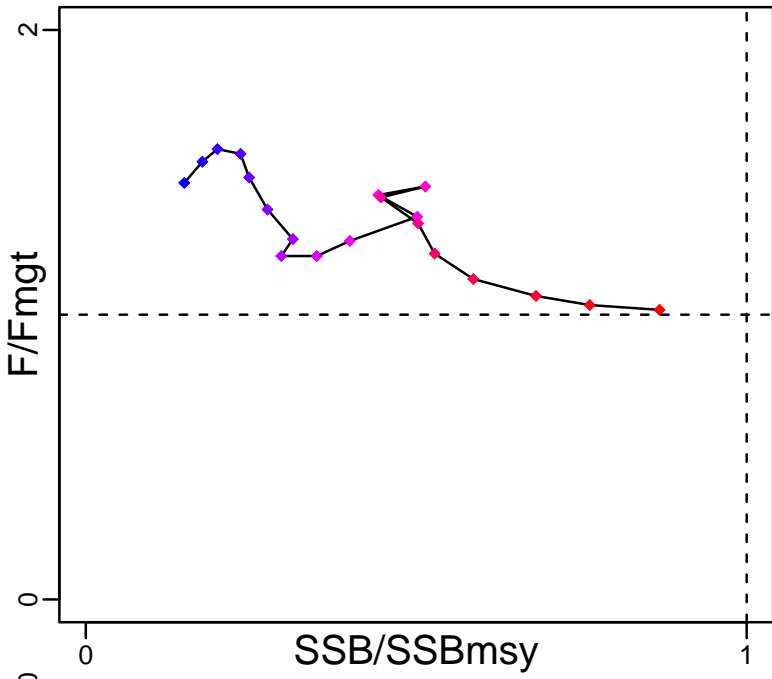
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	WGSAD-RMULLMEDGSA7-2002-2021-HIVELY
Area	Gulf of Lions
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Working Group on Stock Assessment of Demersal Species
Asmts in RAM	2019, 2013,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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	870
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	870
Fmgt	Fmgt-1/yr	2021	0.471
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	123
Flim	-	-	-
ERlim	-	-	-

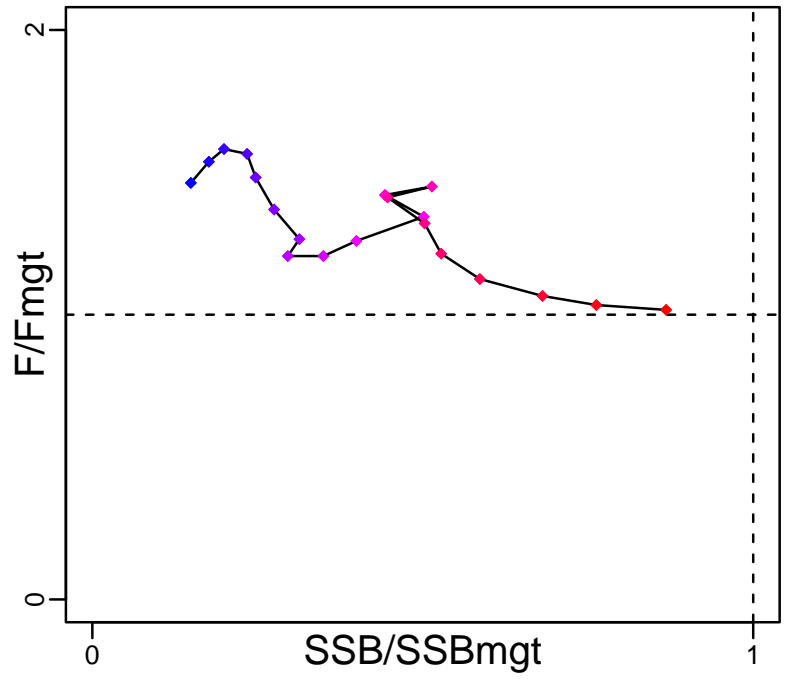
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	755	-	-
TN	-	-	-	-	-
R	R-E00	2021	109,799,920	-	-
F	F-1/yr	2021	0.479	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	320		
TL	TL-MT	2021	432		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.868		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	0.868		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.017		
ER/ERmgt	-	-	-		

Red mullet Gulf of Lions [RMULLMEDGSA7]

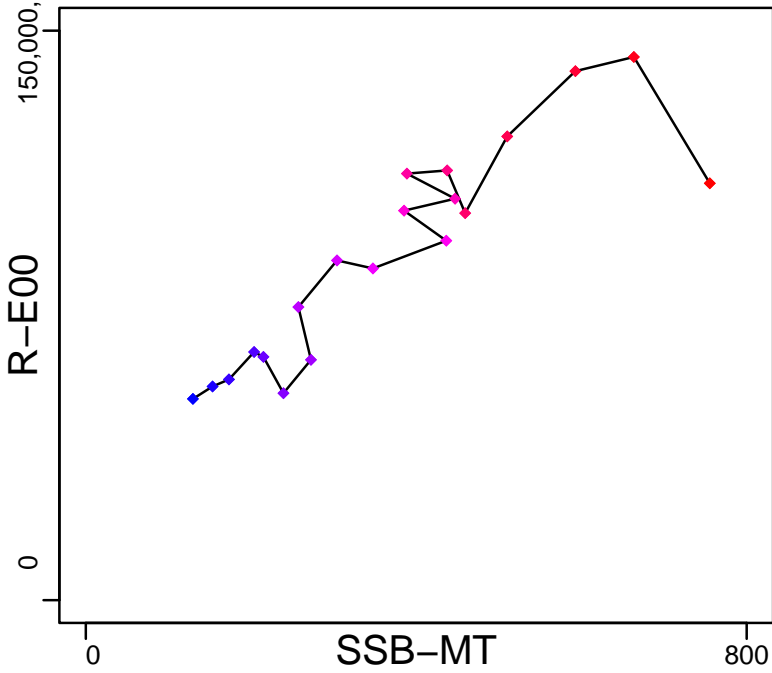
Kobe MSYpref (2002–2021–HIVELY)



Kobe MGTpref (2002–2021–HIVELY)



Spawner Recruit (2002–2021–HIVELY)



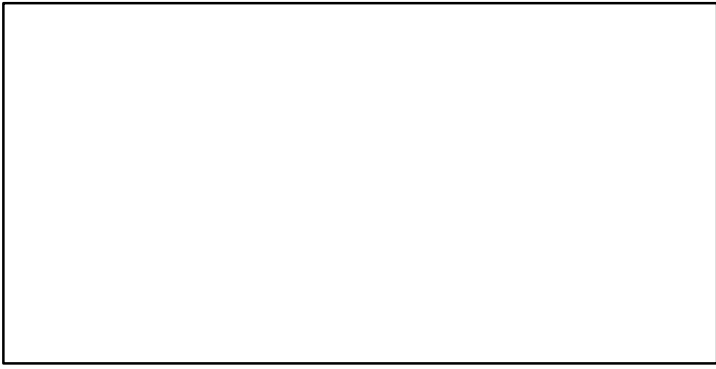
Production*



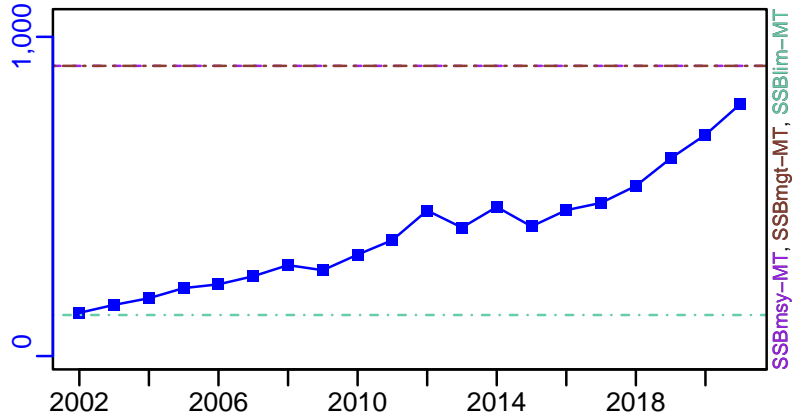
◆ Start Year ◆ End Year * No Data

Red mullet Gulf of Lions [RMULLMEDGSA7]

TB*



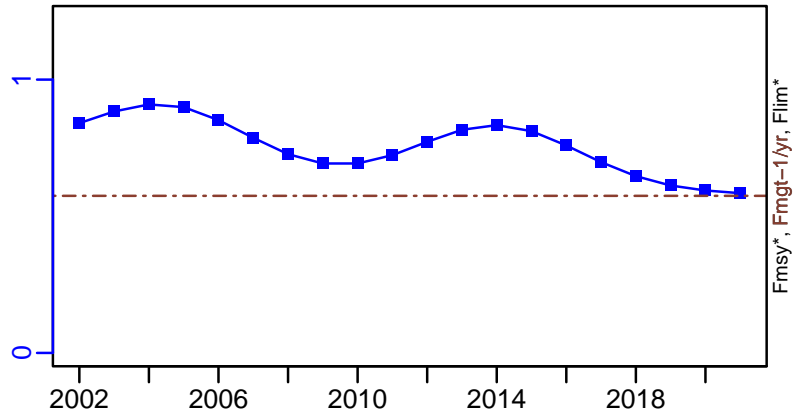
SSB-MT (2002-2021-HIVELY)



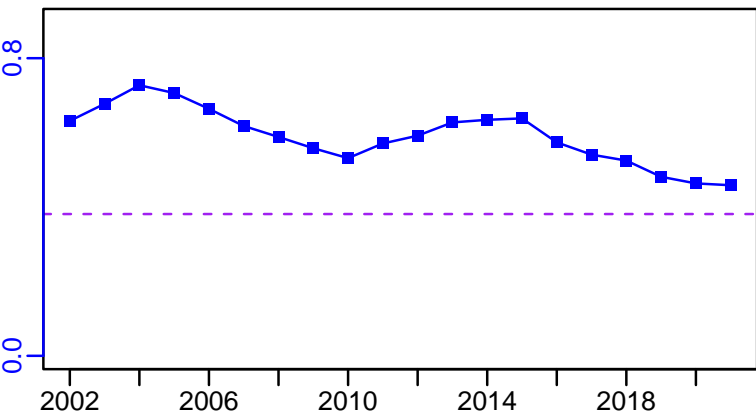
TN *



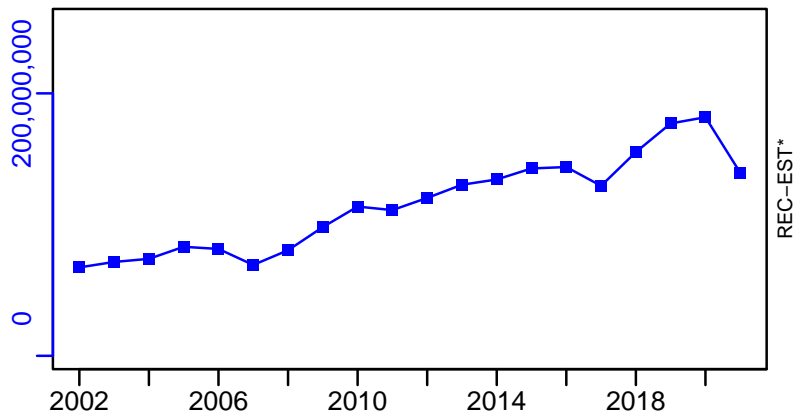
F-1/yr (2002-2021-HIVELY)



ER-calc-ratio (2002-2021-HIVELY)



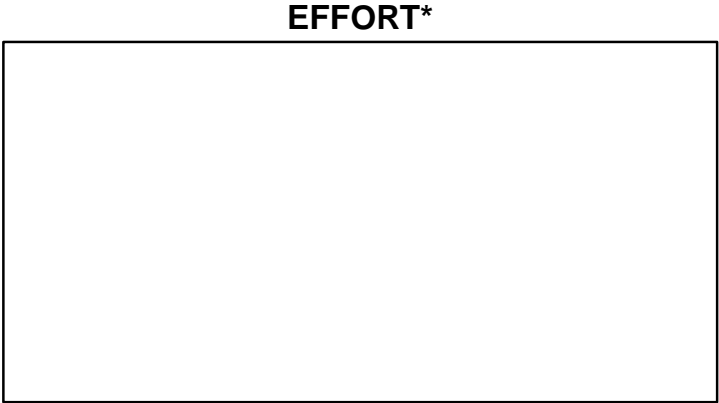
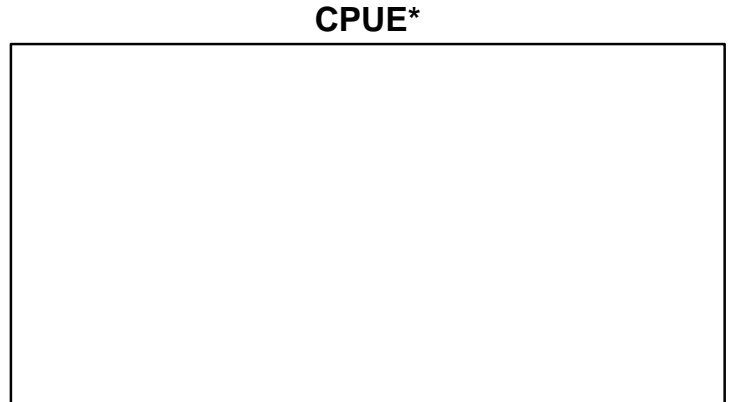
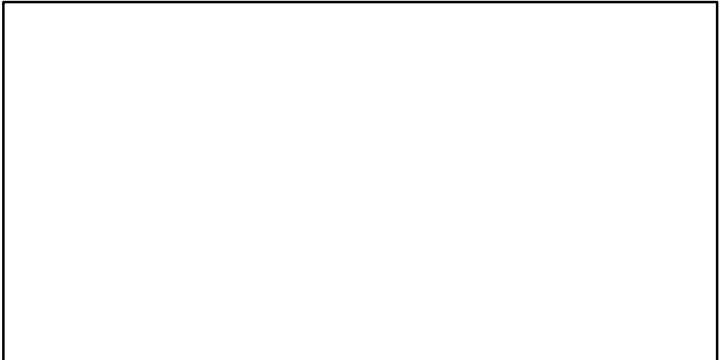
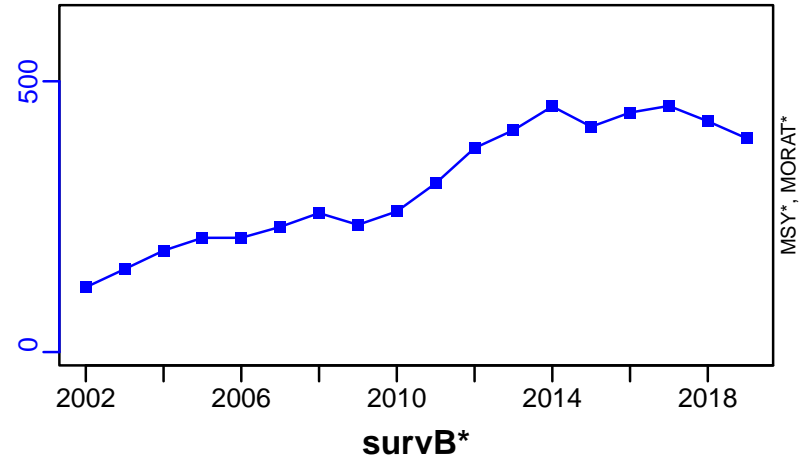
R-E00 (2002-2021-HIVELY)



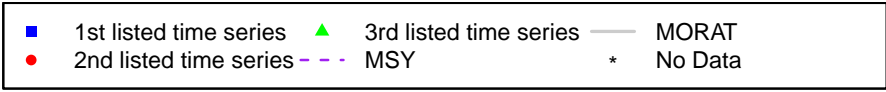
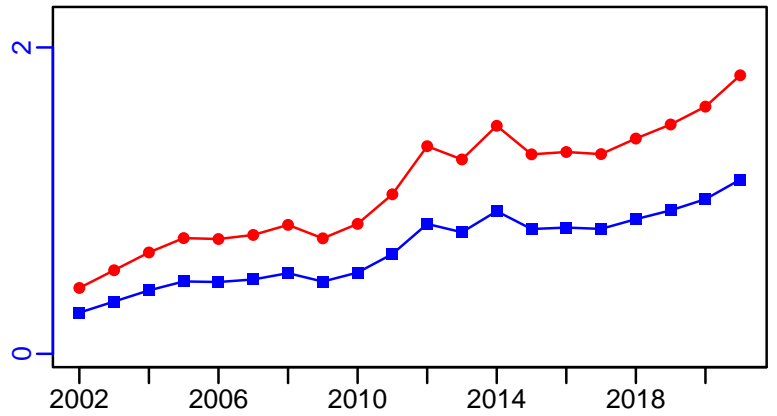
Red mullet Gulf of Lions [RMULLMEDGSA7]

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

TAC*, Cpair*, Cadv*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (2002-2021-HIVELY)



Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

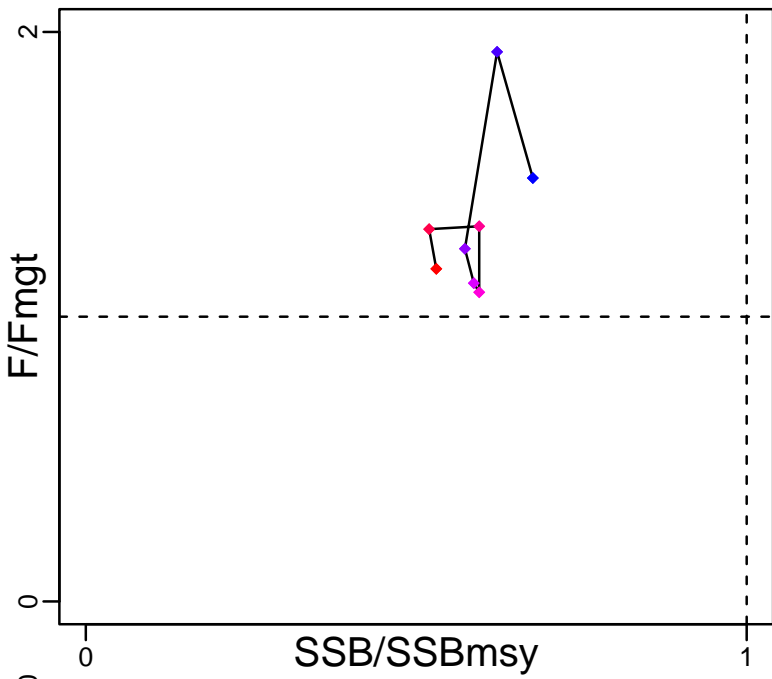
Metadata	
Scientific Name	Mullus barbatus
Current Assess ID	STECF-RMULLMEDGSA9-2004-2019-MEDIMP2021-2
Area	Ligurian and North Tyrrhenian Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.506
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

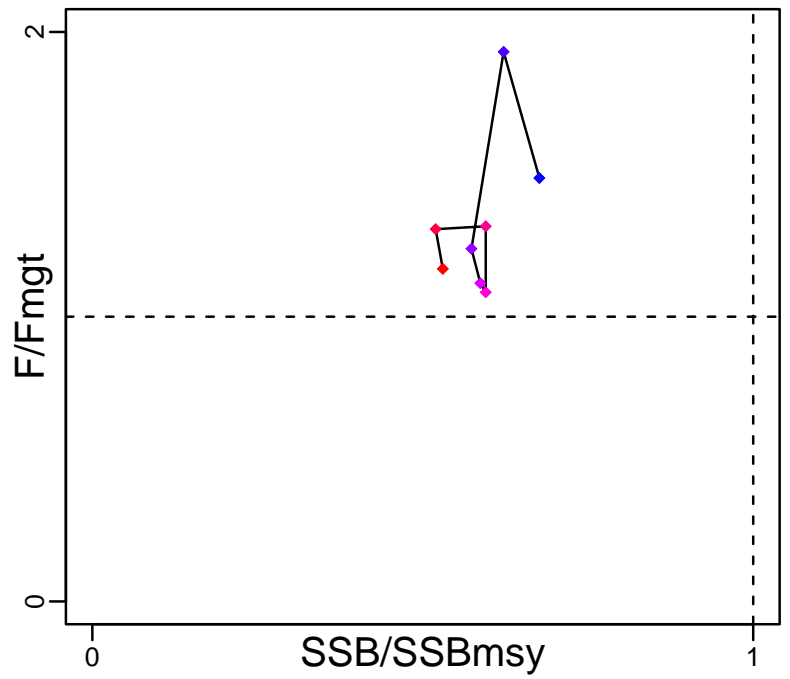
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	1409	-	-
TN	-	-	-	-	-
R	R-E00	2019	271,663,084	-	-
F	F-1/yr	2019	0.846	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	1011		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.67		
ER/ERmgt	-	-	-		

Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

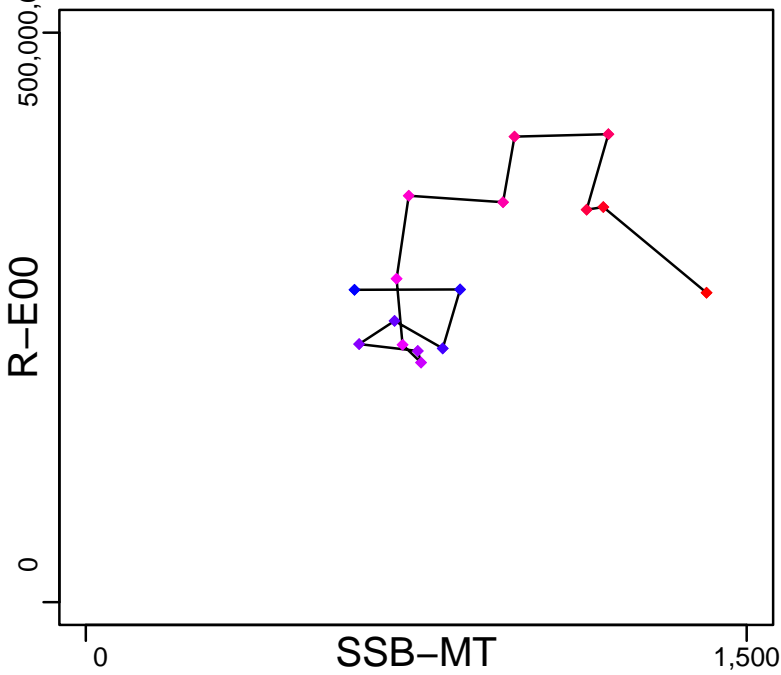
Kobe MSYpref (2006–2013–OSIO)



Kobe MGTpref (2006–2013–OSIO)



Spawner Recruit (2004–2019–MEDIMP2021–2)



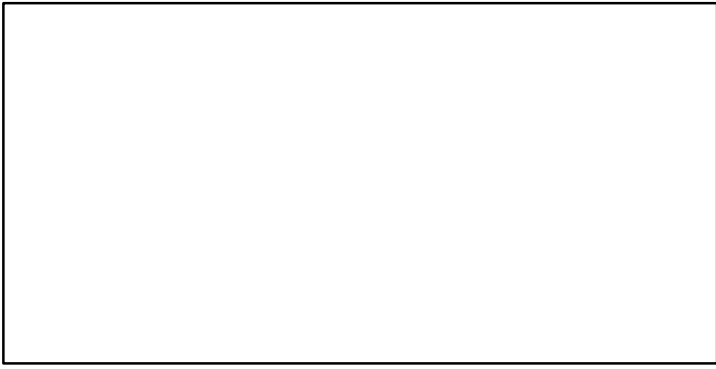
Production*



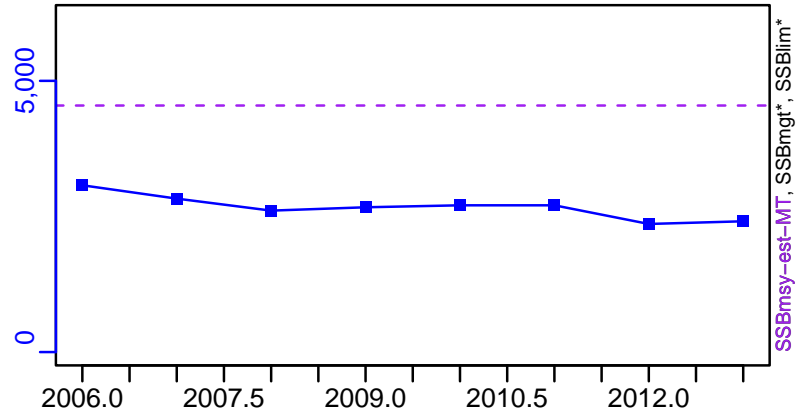
◆ Start Year ◆ End Year * No Data

Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

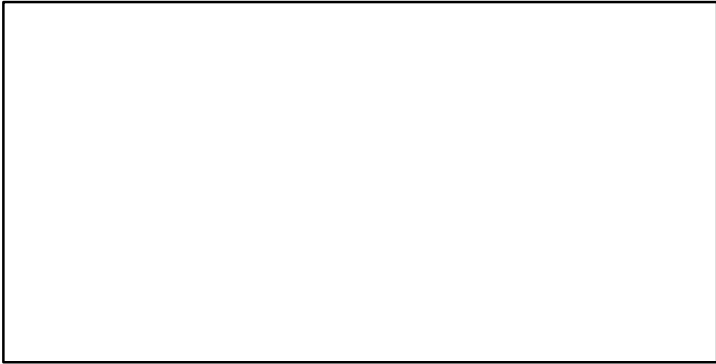
TB*



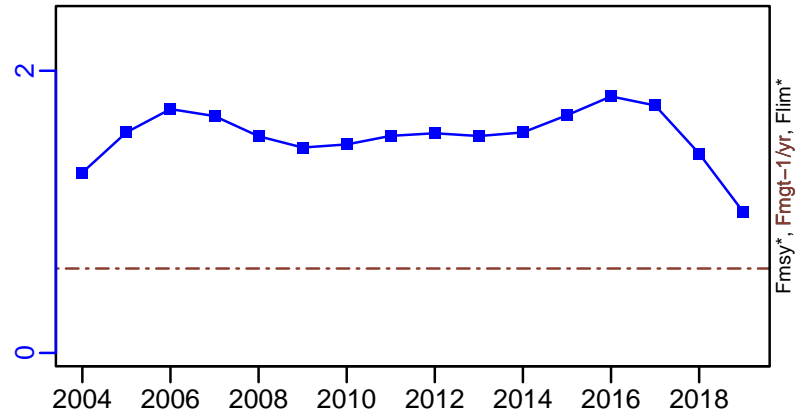
SSB-MT (2006-2013-OSIO)



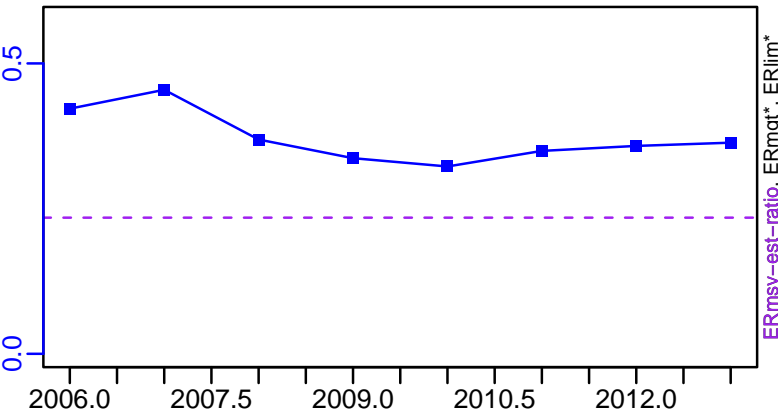
TN *



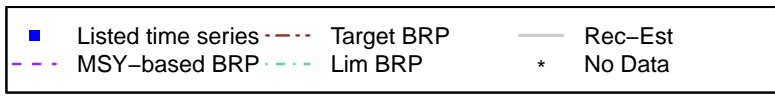
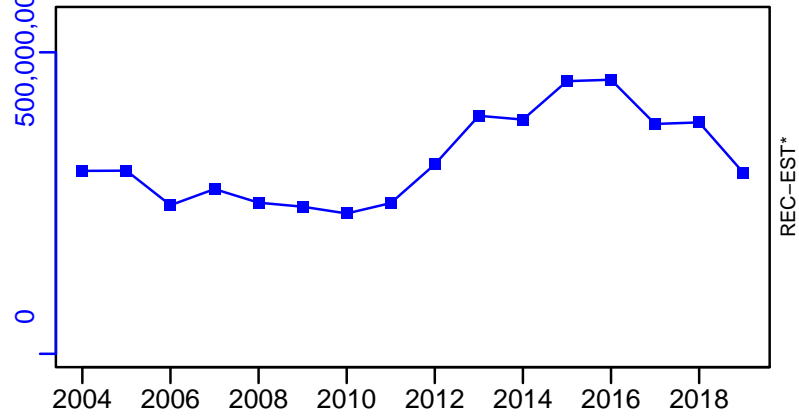
F-1/yr (2004-2019-MEDIMP2021-2)



ER-calc-ratio (2006-2013-OSIO)



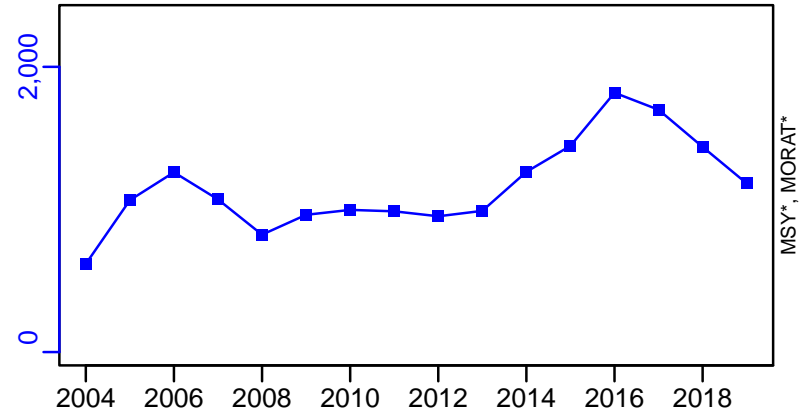
R-E00 (2004-2019-MEDIMP2021-2)



Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

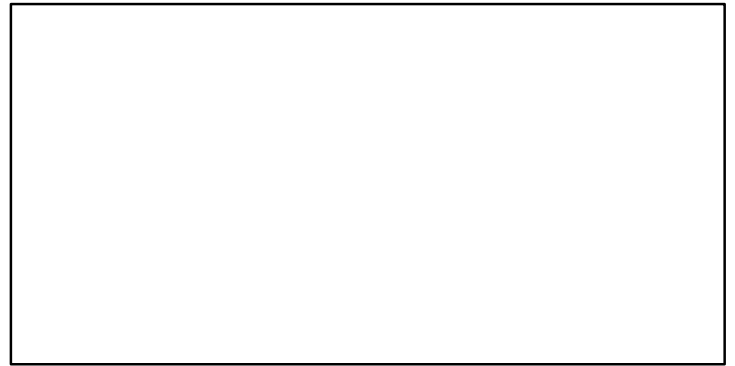
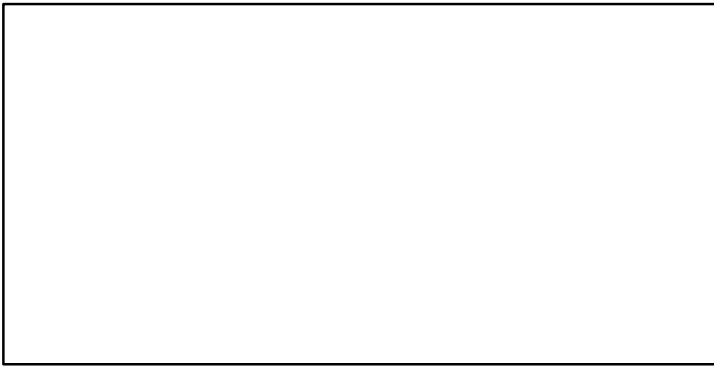
TC-MT, TL*, RecC* (2004-2019-MEDIMP2021-2)

TAC*, Cpair*, Cadv*



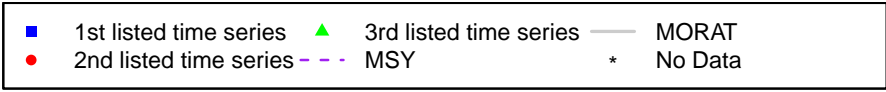
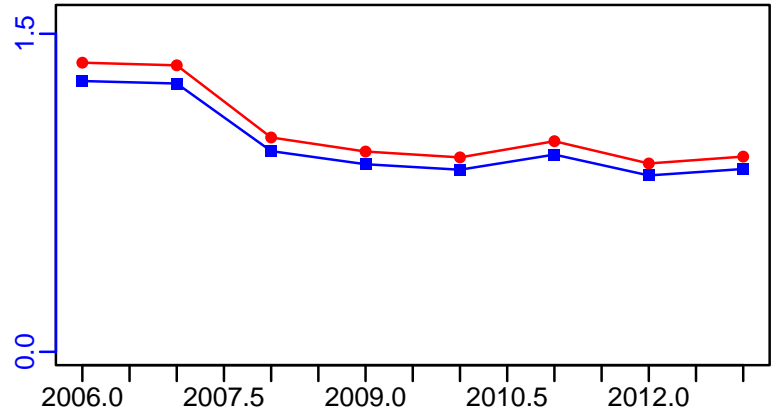
survB*

CPUE*



EFFORT*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006-2013-OSIO)



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

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

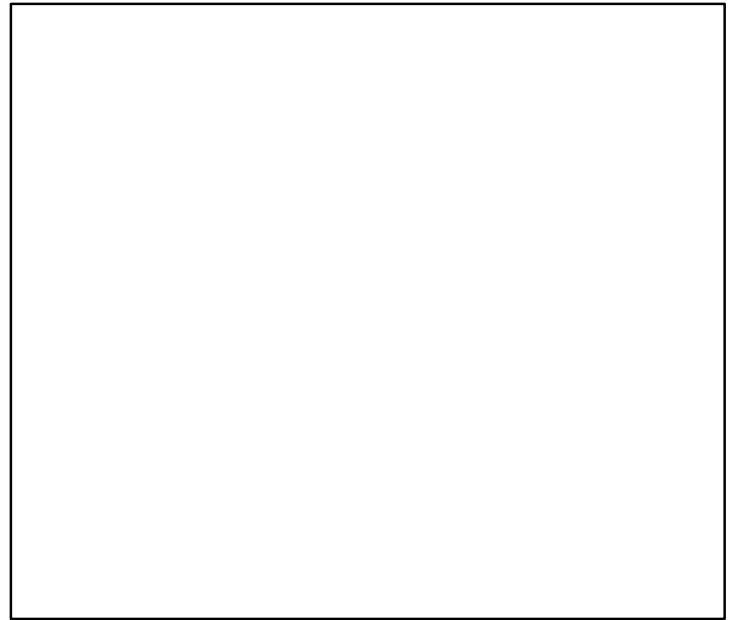
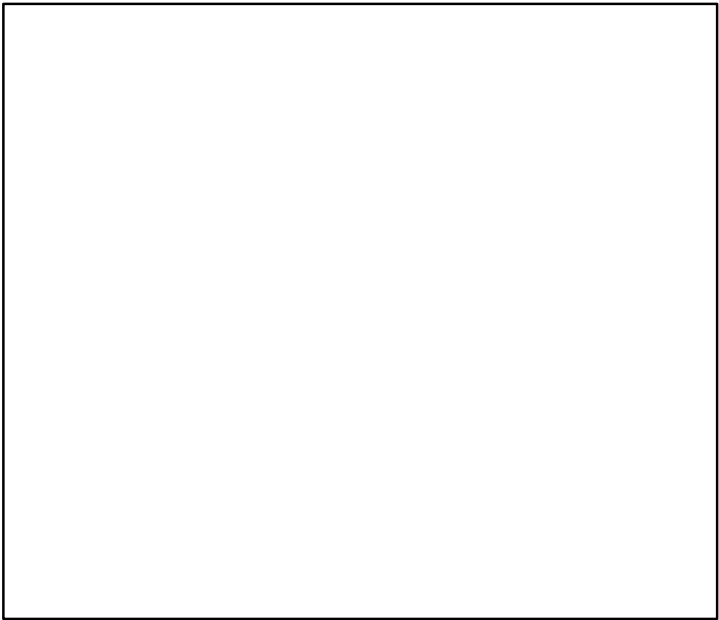
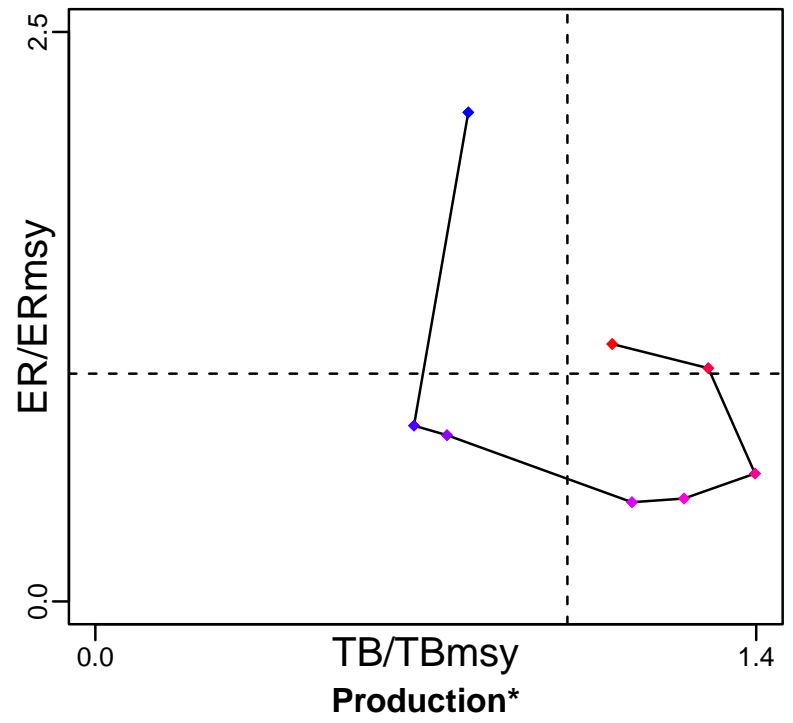
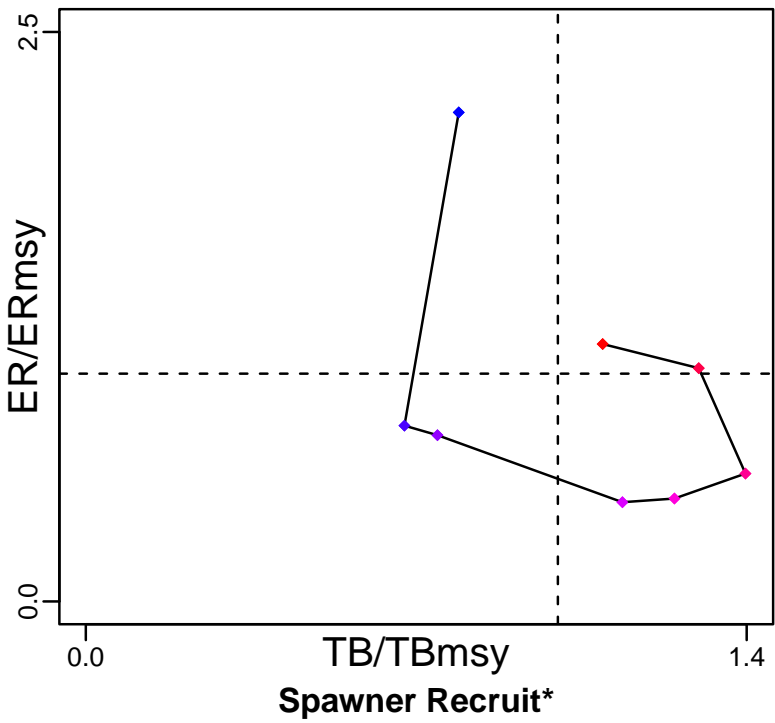
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

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

Kobe MSYpref (1990–2007–CHING)

Kobe MGTpref (1990–2007–CHING)

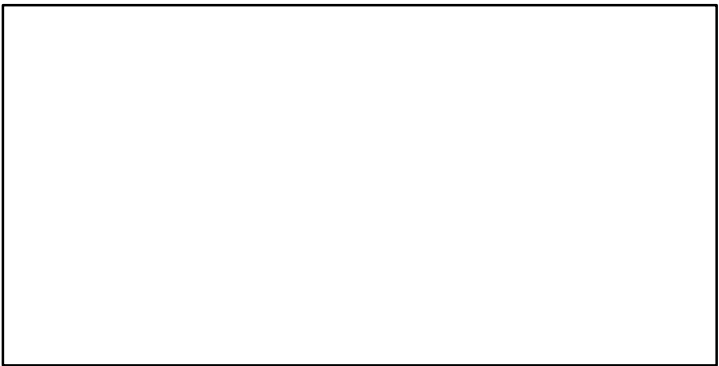
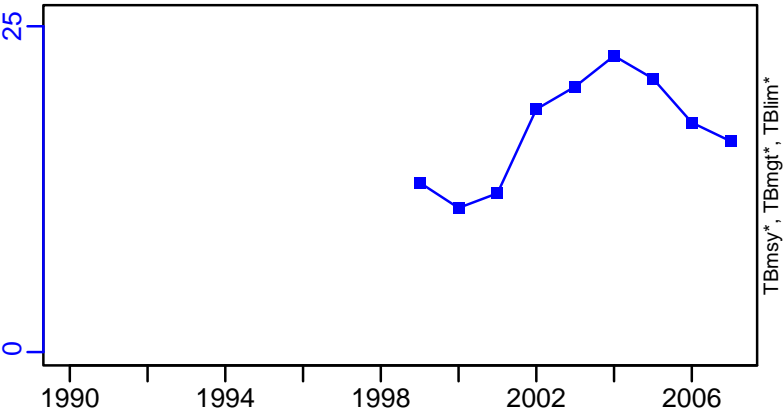


◆ Start Year ◆ End Year * No Data

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

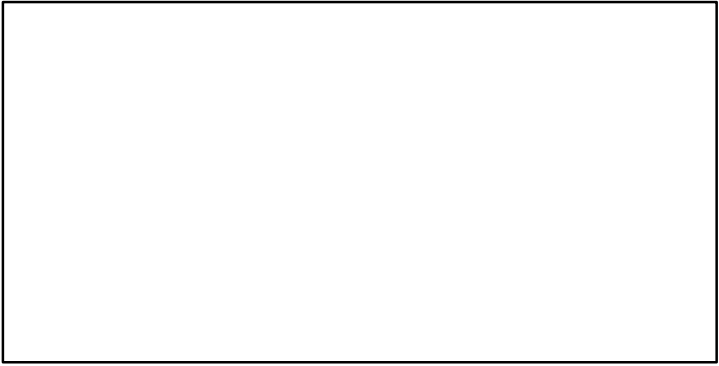
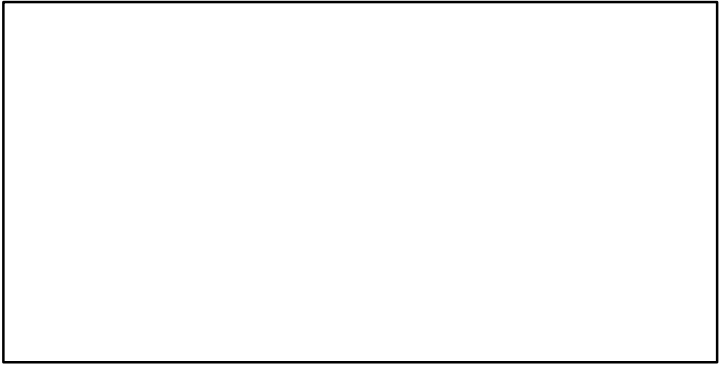
TB-index (1990–2007–CHING)

SSB*



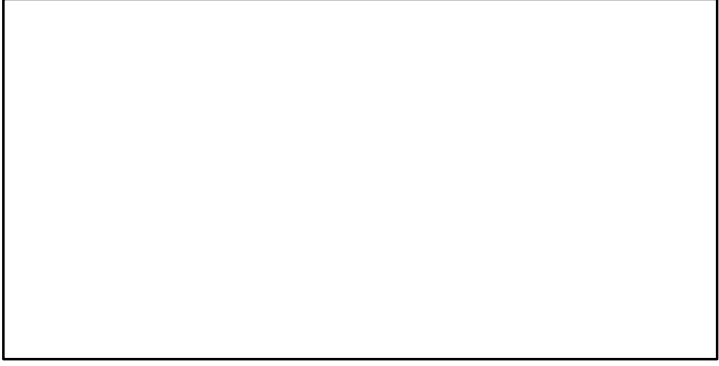
TN *

F*



ER*

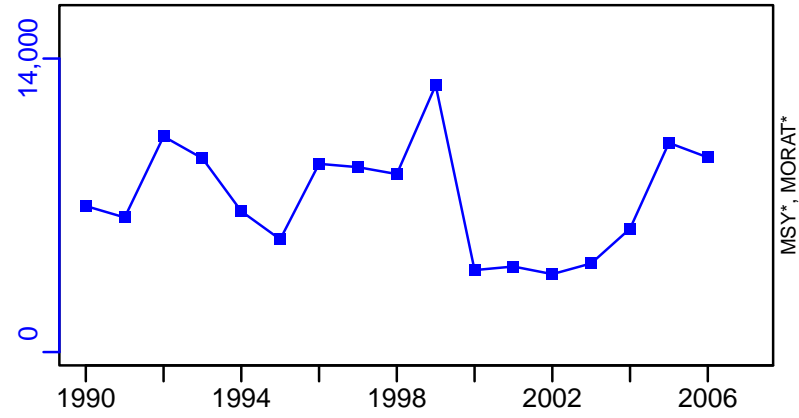
Recruits*



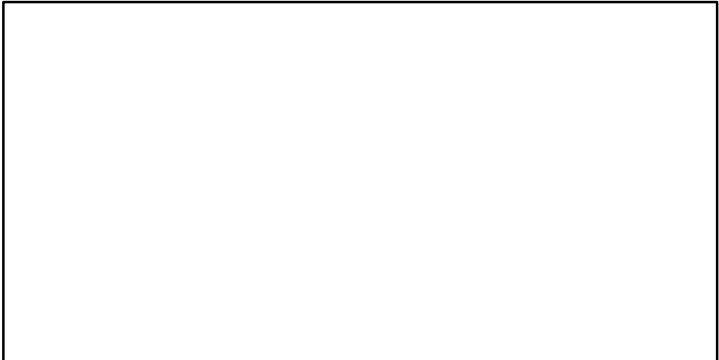
Red pandora Central West Africa Cote Divoire–Benin [RPANDCWACIV–BEN]

TC–MT, TL*, RecC* (1990–2007–CHING)

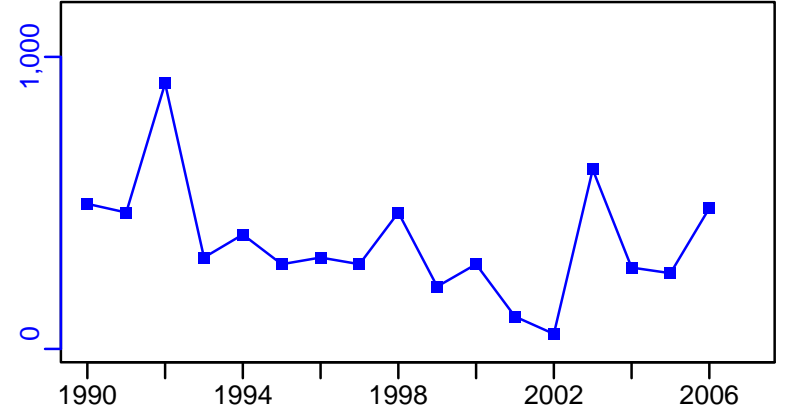
TAC*, Cpair*, Cadv*



survB*



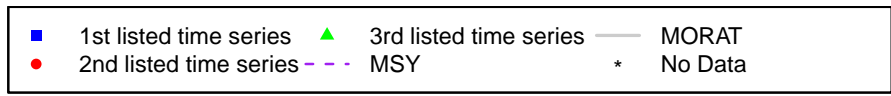
CPUE–kg/day (1990–2007–CHING)



EFFORT*



CdivMSY*



Red pandora North West Africa [RPANDNWA]

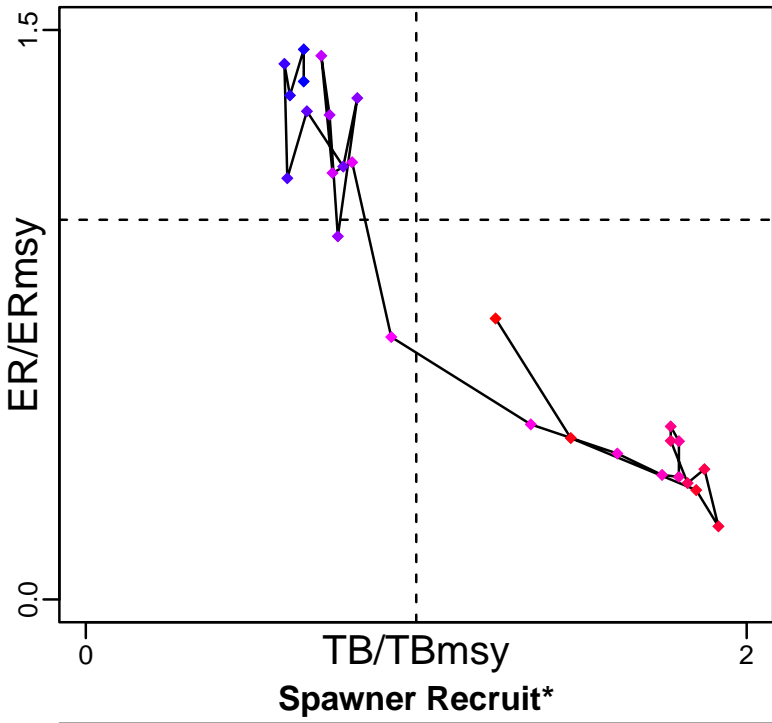
Metadata	
Scientific Name	Pagellus bellottii
Current Assess ID	FAO-DR-RPANDNWA-1990-2016-ASHBROOK
Area	North West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2016

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

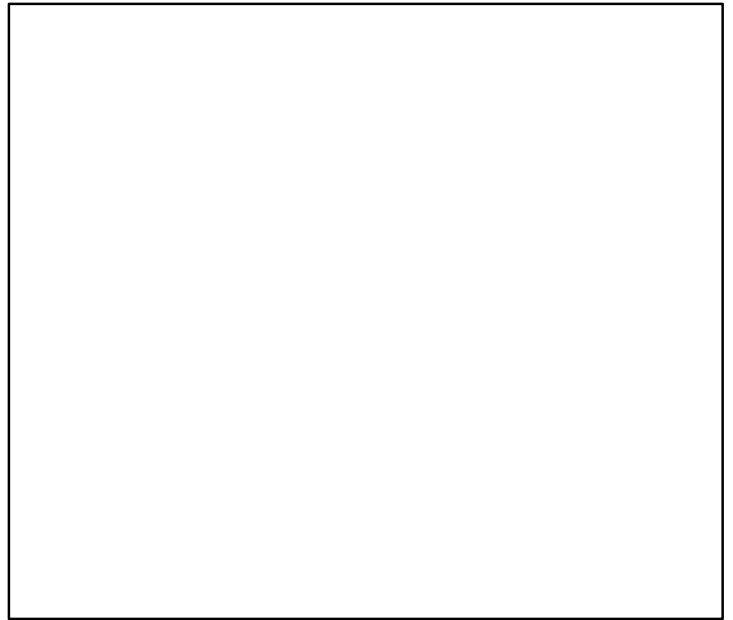
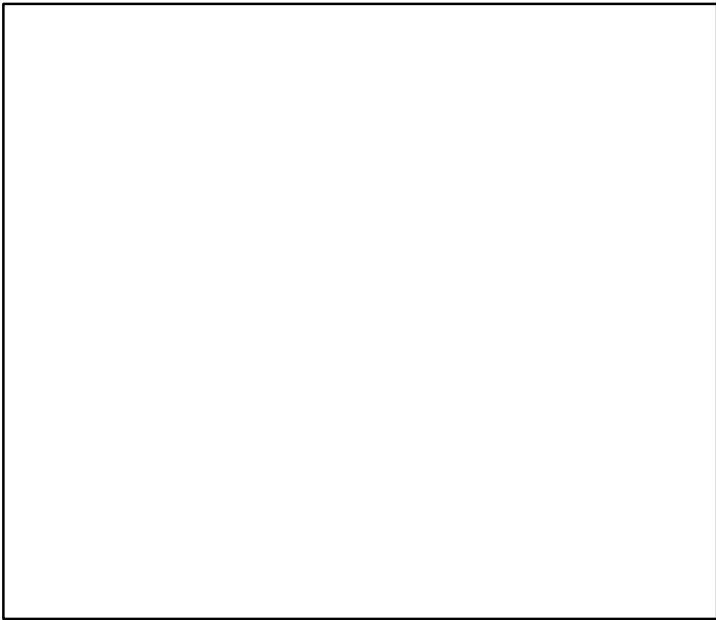
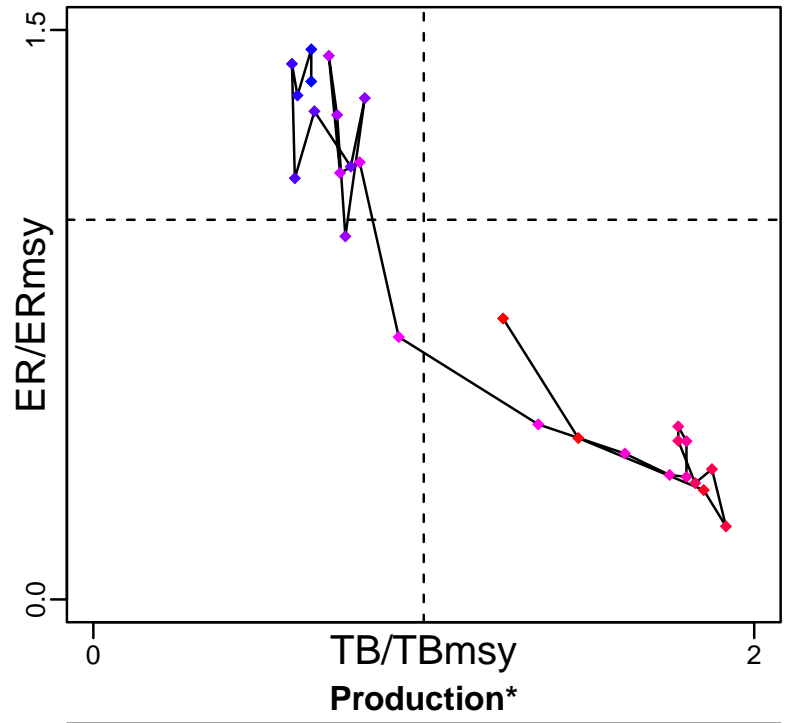
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	9304		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red pandora North West Africa [RPANDNWA]

Kobe MSYpref (1990–2016–ASHBROOK)



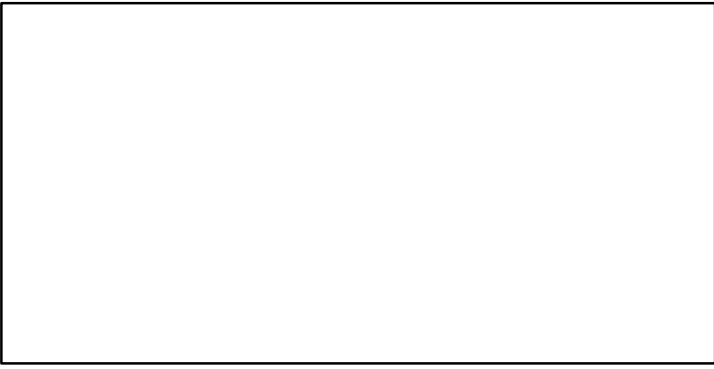
Kobe MGTpref (1990–2016–ASHBROOK)



◆ Start Year ◆ End Year * No Data

Red pandora North West Africa [RPANDNWA]

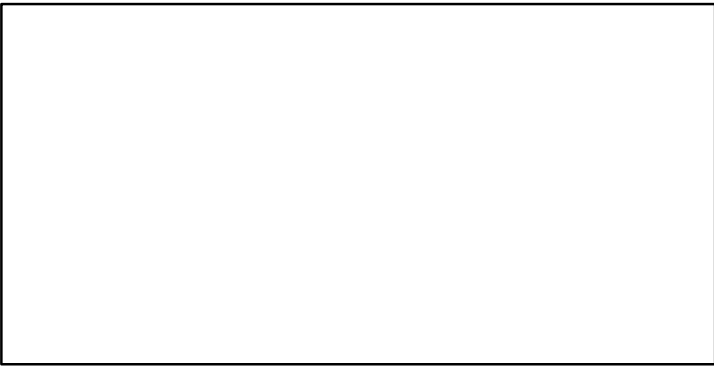
TB*



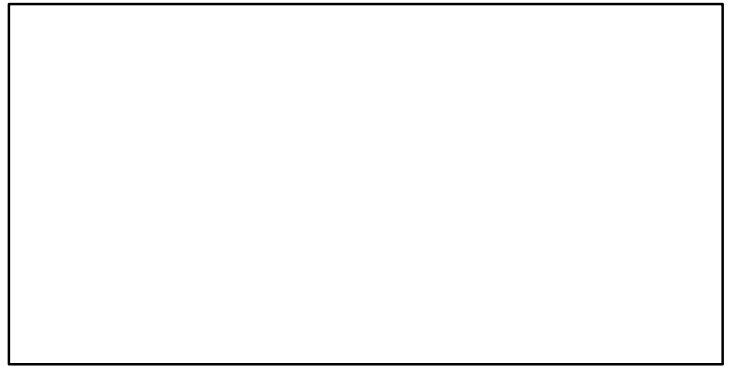
SSB*



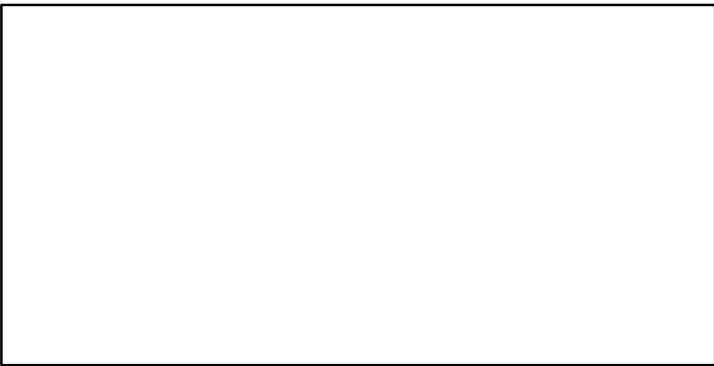
TN *



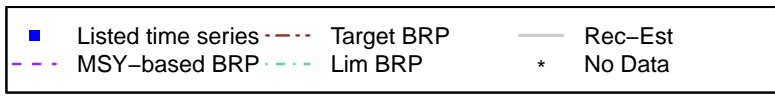
F*



ER*



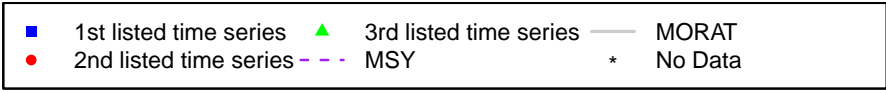
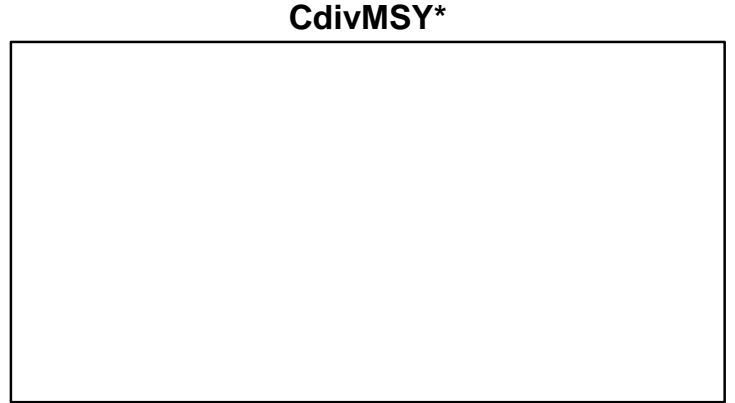
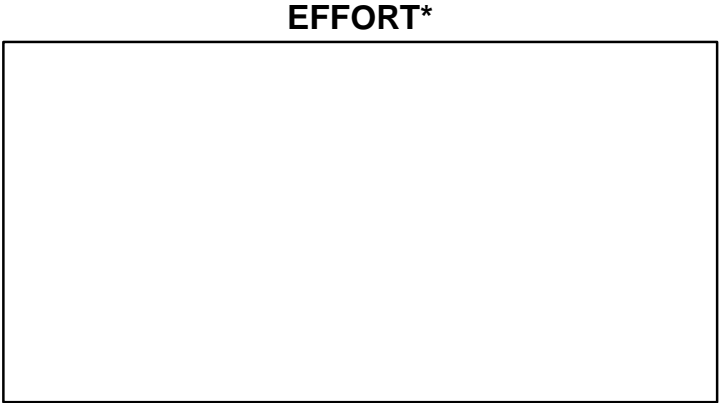
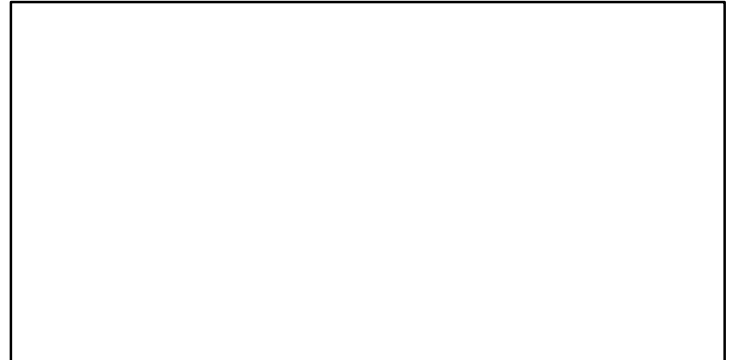
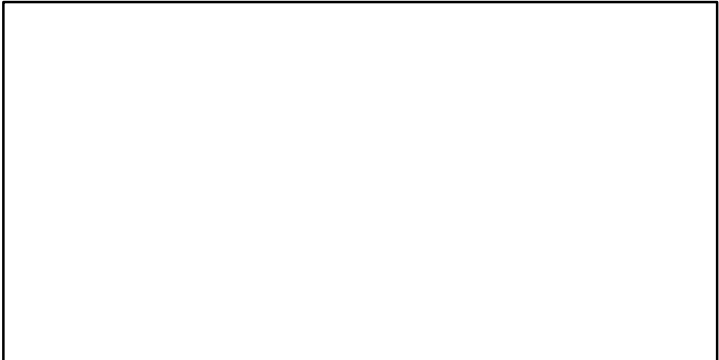
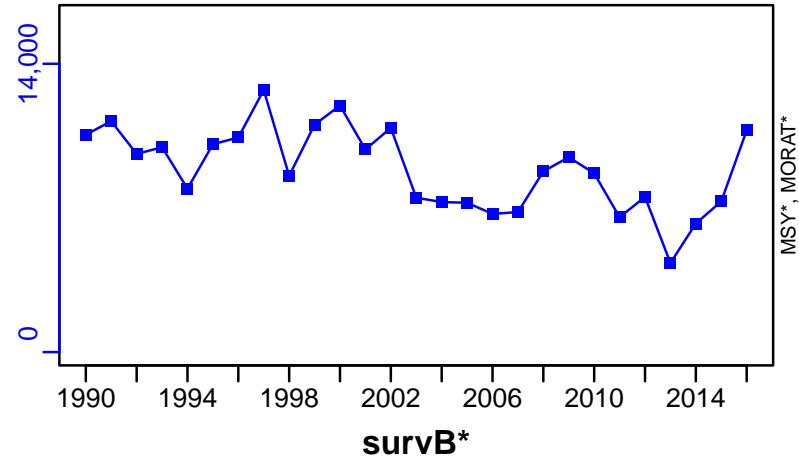
Recruits*



Red panda North West Africa [RPANDNWA]

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

TAC*, Cpair*, Cadv*



Red porgy Southern Atlantic coast [RPORGYSATLC]

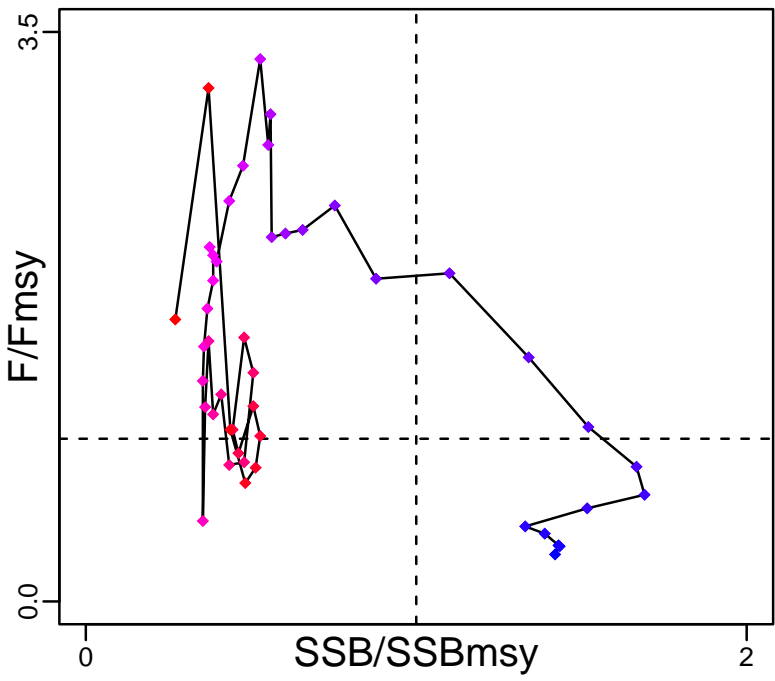
Metadata	
Scientific Name	Pagrus pagrus
Current Assess ID	SEFSC-RPORGYSATLC-1972-2017-SISIMP2021-2
Area	Southern Atlantic coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2012, 2017

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

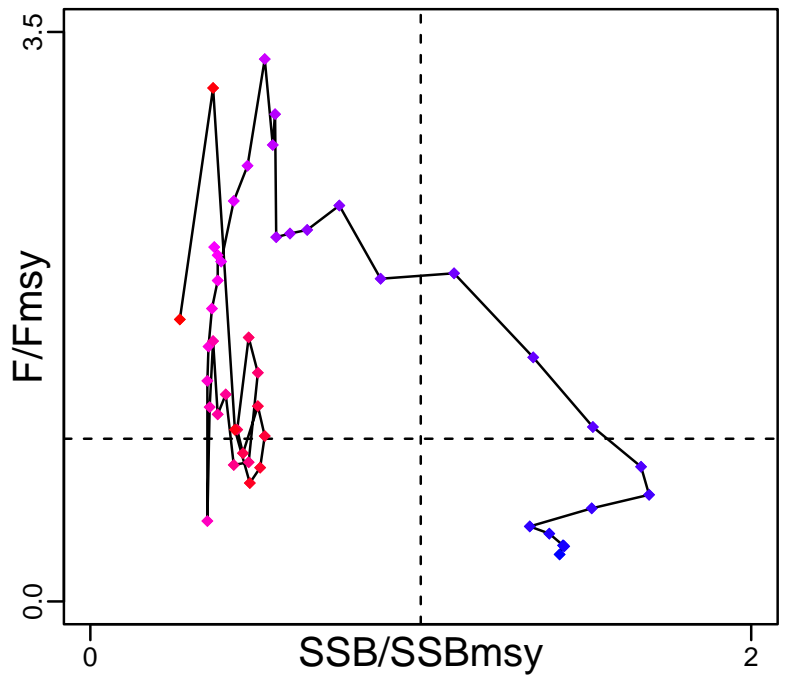
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	2020	-	-
SSB	SSB-MT	2017	780	-	-
TN	-	-	-	-	-
R	R-E00	2017	345,000	-	1
F	F-1/yr	2017	0.312	-	-
ER	ER-calc-ratio	2012	0.077	-	-
TC	TC-MT	2017	115		
TL	TL-MT	2012	155		
TB/TBmsy	TB-MT/TBmsy-MT	2012	0.475		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017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

Red porgy Southern Atlantic coast [RPORGYSATLC]

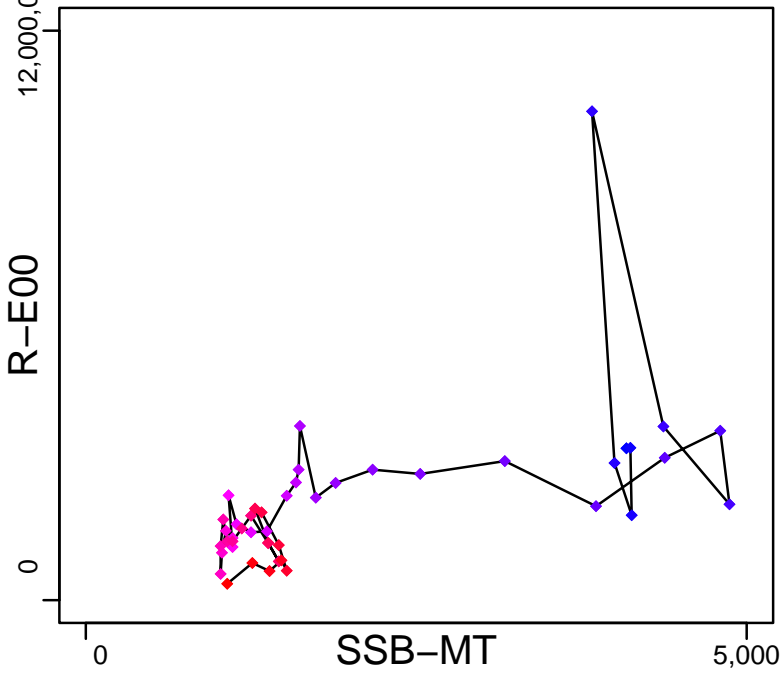
Kobe MSYpref (1972–2017–SISIMP2021–2)



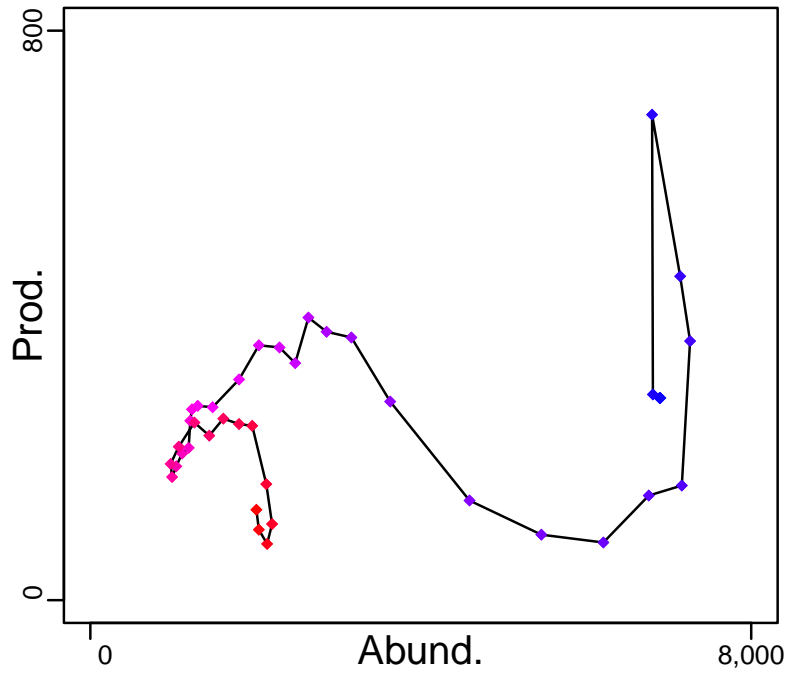
Kobe MGTpref (1972–2017–SISIMP2021–2)



Spawner Recruit (1972–2017–SISIMP2021–2)



Production (1972–2017–SISIMP2021–2)

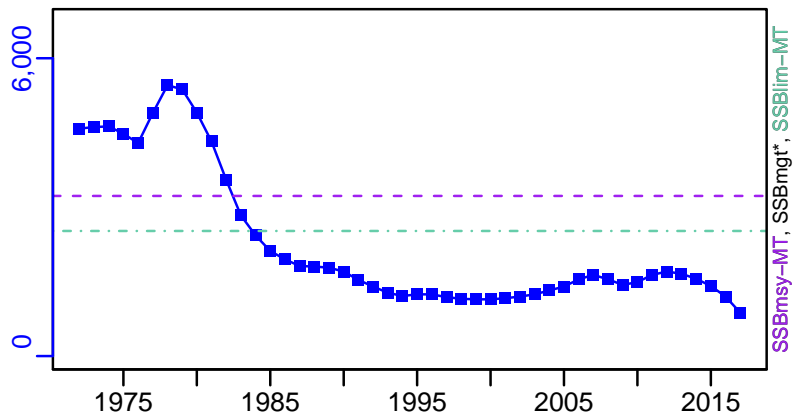
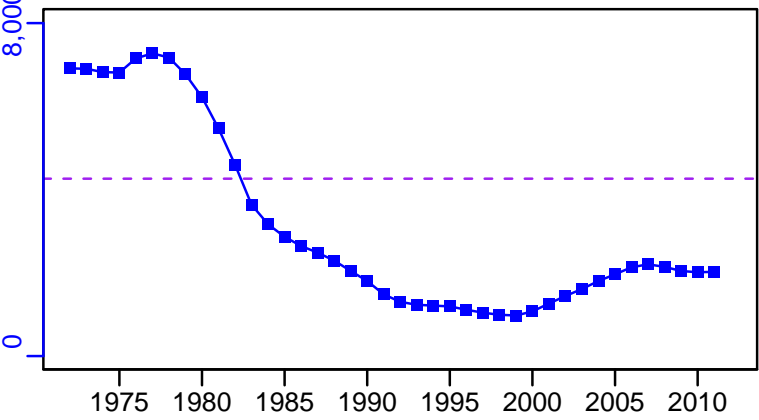


◆ Start Year ◆ End Year * No Data

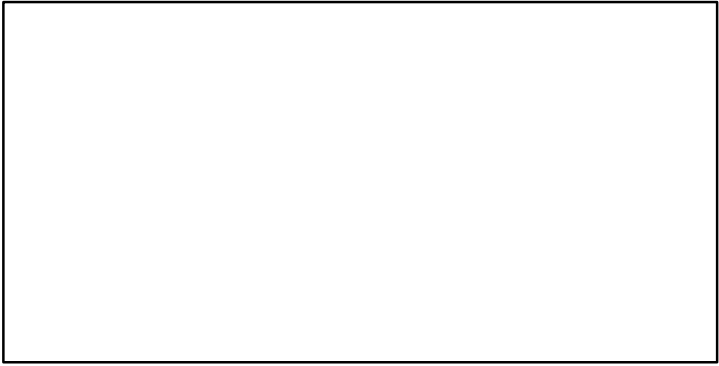
Red porgy Southern Atlantic coast [RPORGYSATLC]

TB-MT (1972-2012-HIVELY)

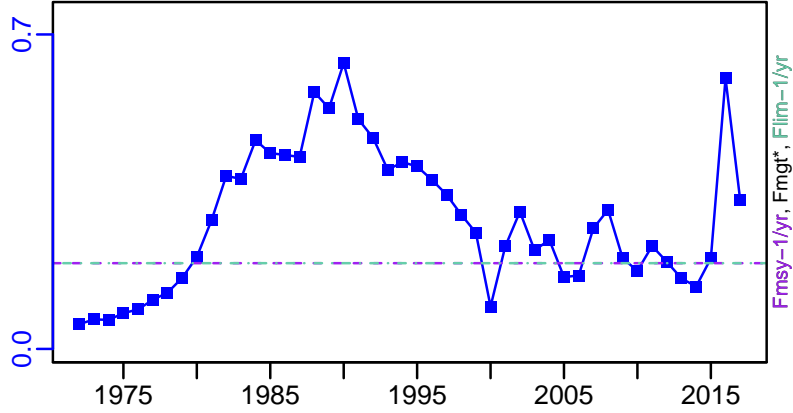
SSB-MT (1972-2017-SISIMP2021-2)



TN *

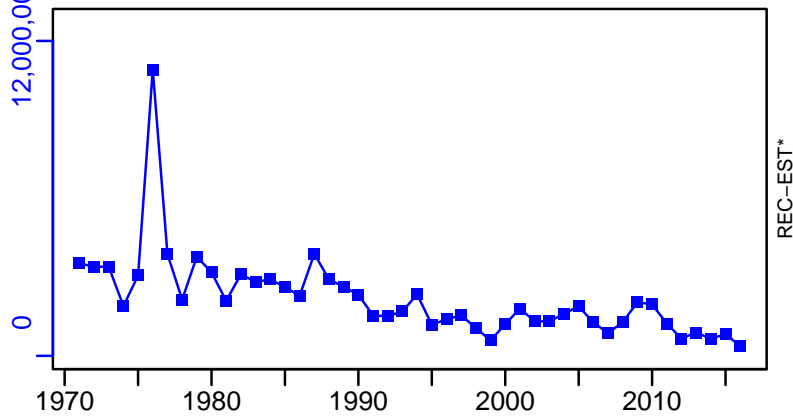
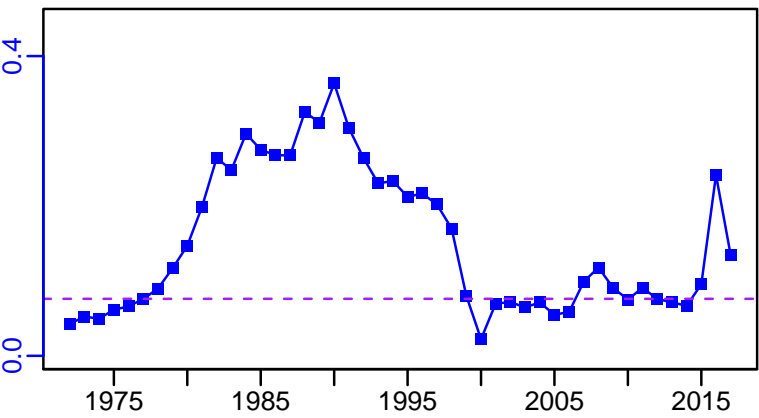


F-1/yr (1972-2017-SISIMP2021-2)



ER-calc-ratio (1972-2017-SISIMP2021-2)

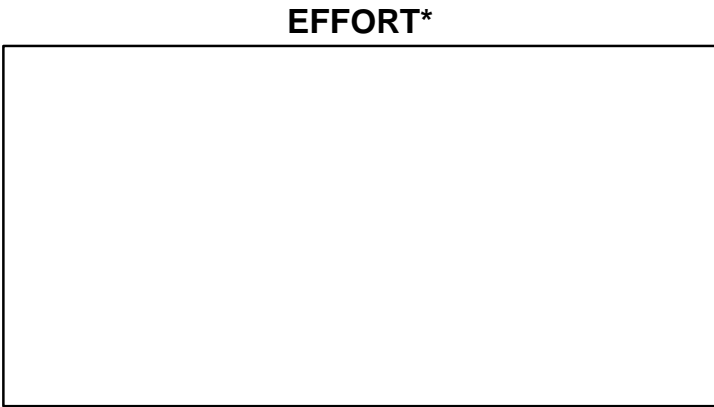
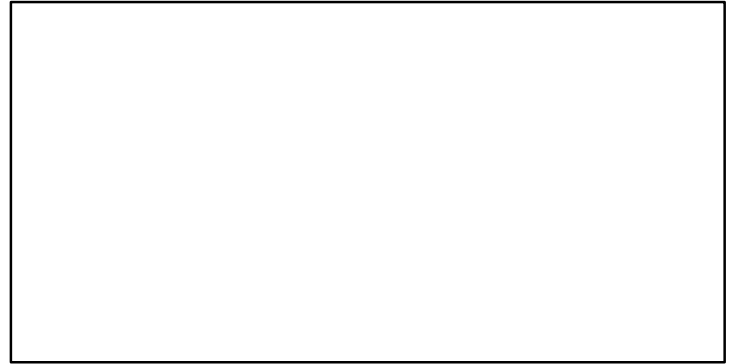
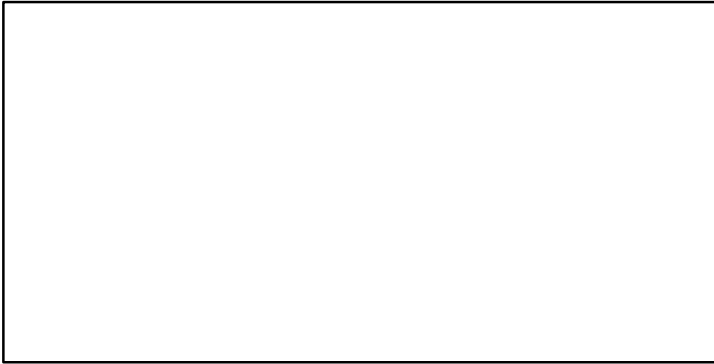
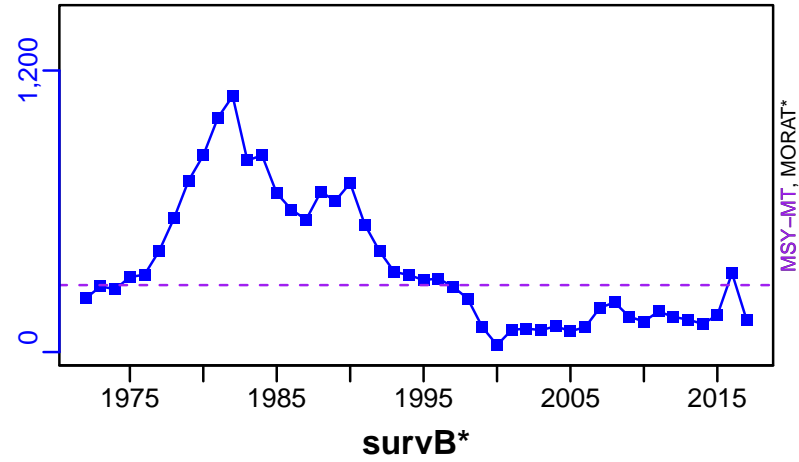
R-E00 (1972-2017-SISIMP2021-2)



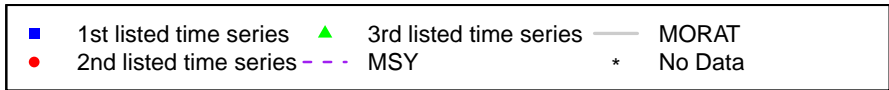
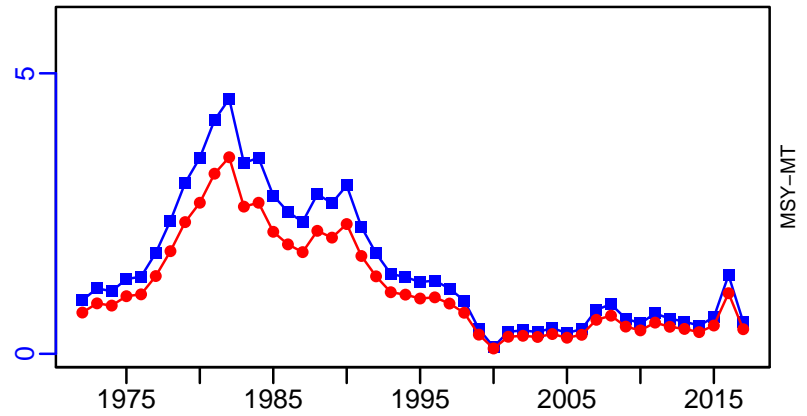
Red porgy Southern Atlantic coast [RPORGYSATLC]

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

TAC*, Cpair*, Cadv*



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



Red snapper Gulf of Mexico [RSNAPGM]

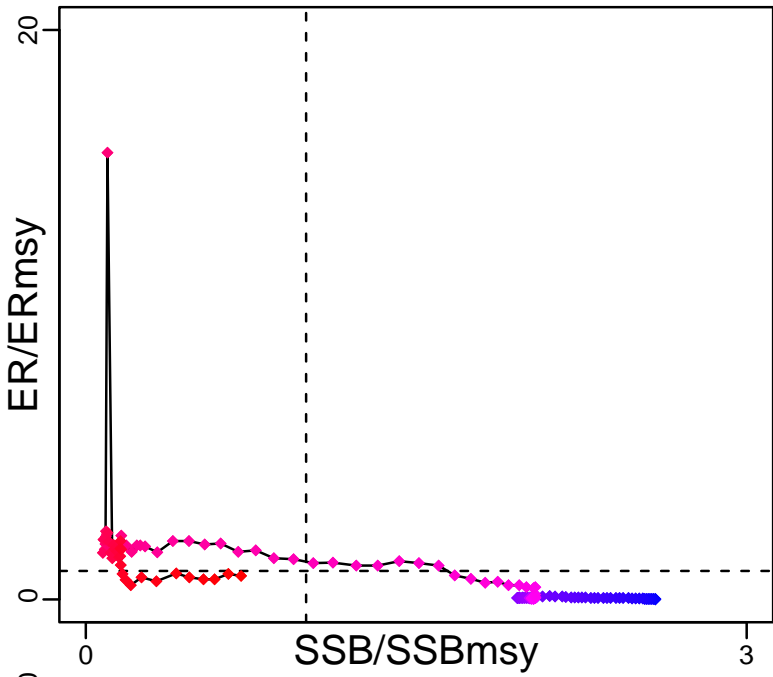
Metadata	
Scientific Name	Lutjanus campechanus
Current Assess ID	SEFSC-RSNAPGM-1872-2016-SISIMP2021-2
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2011, 2013, 2016, 2016

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

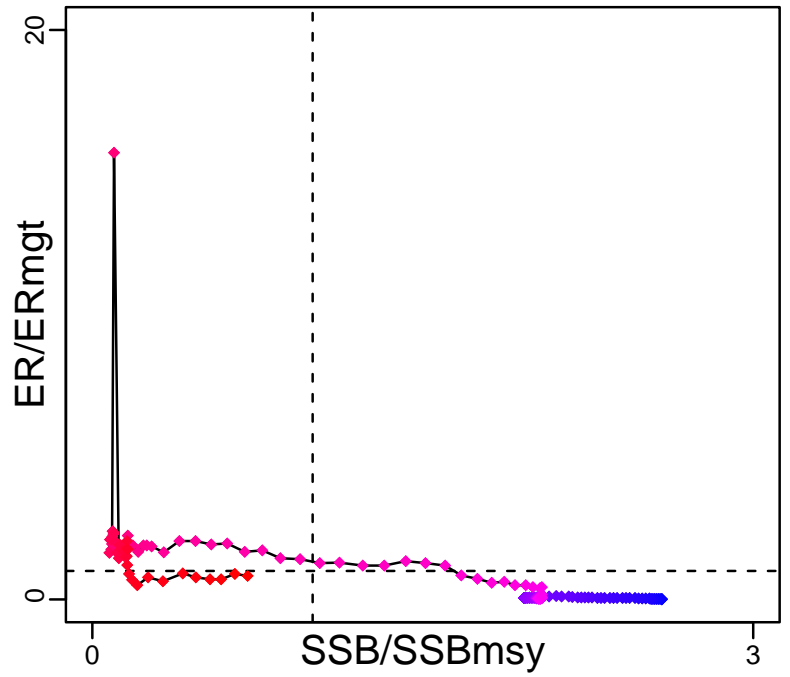
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	64,100	-	0+
SSB	SSB-E00eggs	2016	8.67×10^{14}	-	-
TN	-	-	-	-	-
R	R-E00	2016	138,792,000	-	0
F	F-1/yr	2011	0.062	-	-
ER	ER-ratio	2016	0.048	-	-
TC	TC-MT	2016	3050		
TL	TL-MT	2011	1630		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.536		
SSB/SSBmsy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

Red snapper Gulf of Mexico [RSNAPGM]

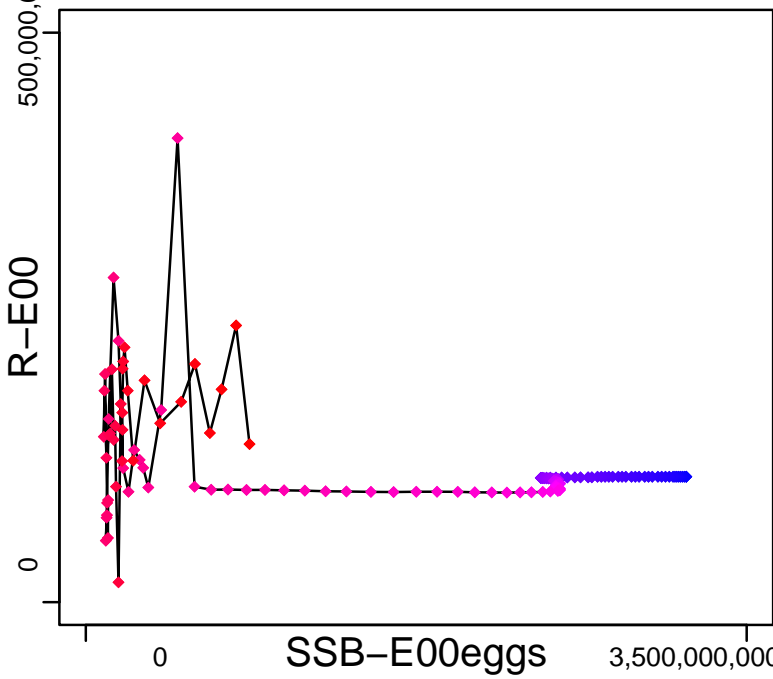
Kobe MSYpref (1872–2016–SISIMP2021)



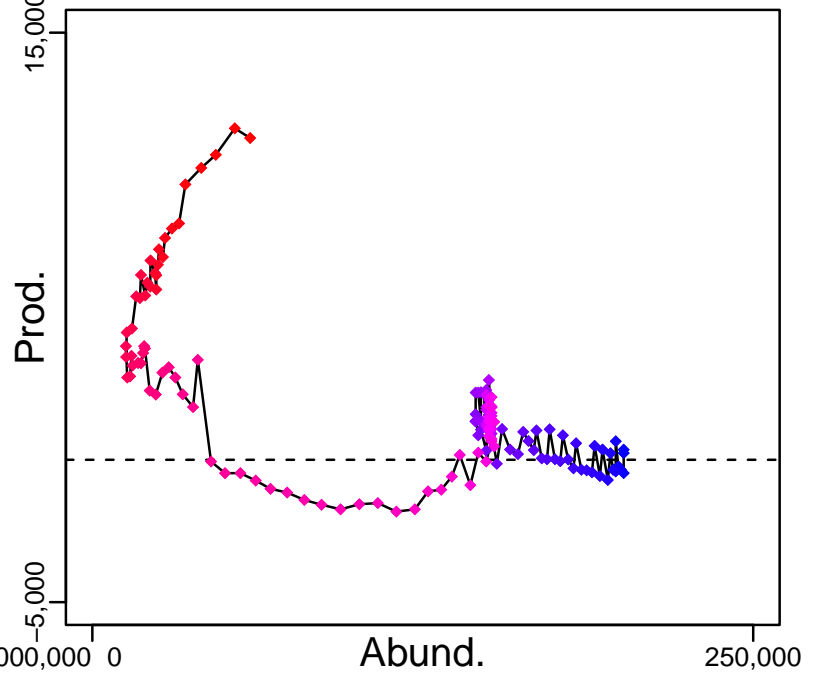
Kobe MGTpref (1872–2016–SISIMP2021)



Spawner Recruit (1872–2016–SISIMP2021)



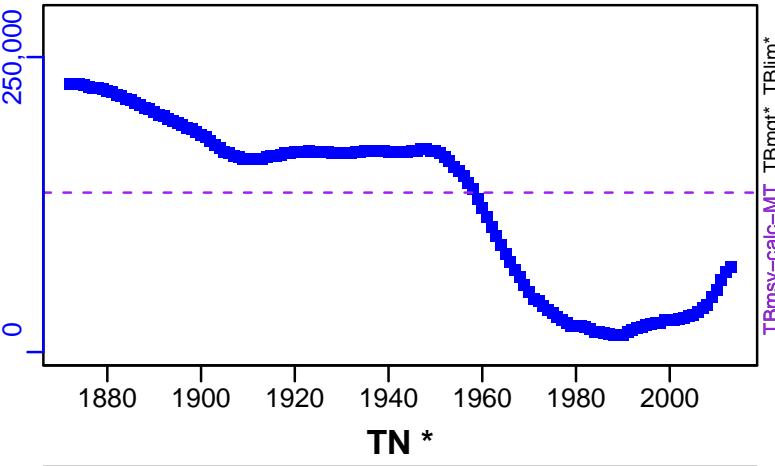
Production (1872–2013–SISIMP2016)



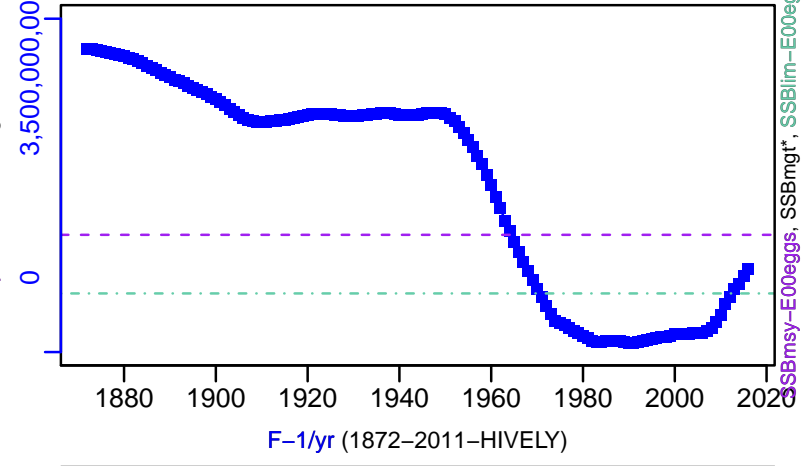
◆ Start Year ◆ End Year * No Data

Red snapper Gulf of Mexico [RSNAPGM]

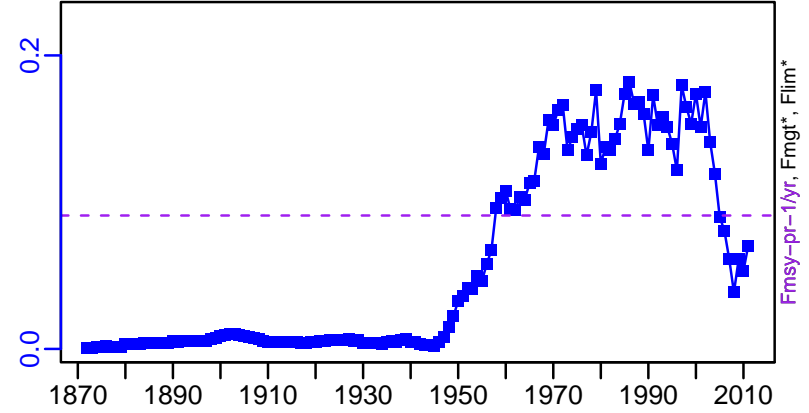
TB-MT (1872-2013-SISIMP2016)



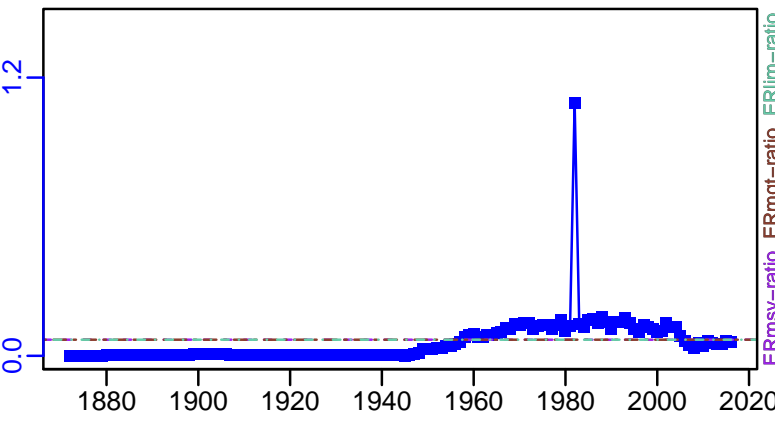
SSB-E00eggs (1872-2016-SISIMP2021)



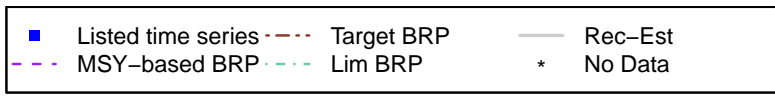
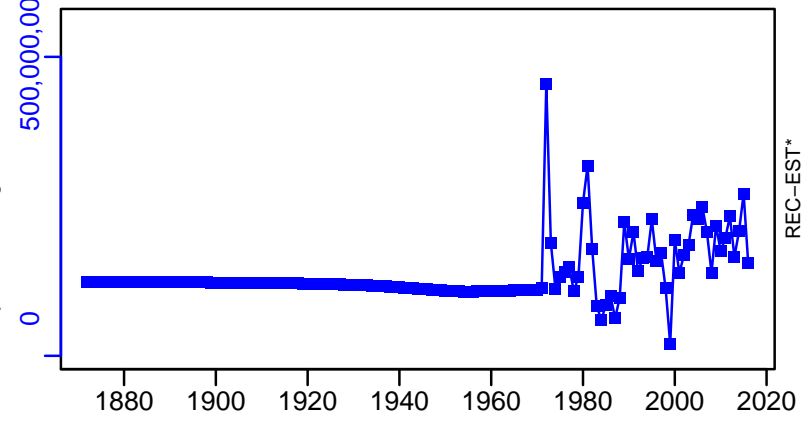
F-1/yr (1872-2011-HIVELY)



ER-ratio (1872-2016-SISIMP2021)



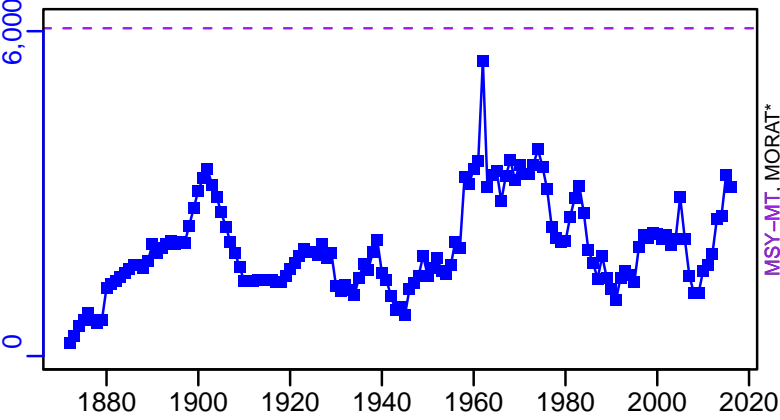
R-E00 (1872-2016-SISIMP2021)



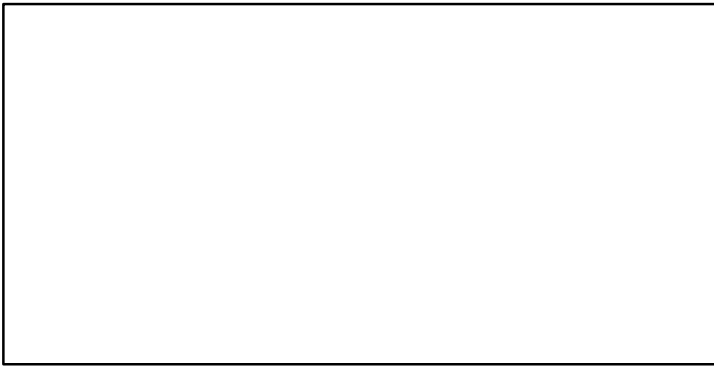
Red snapper Gulf of Mexico [RSNAPGM]

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

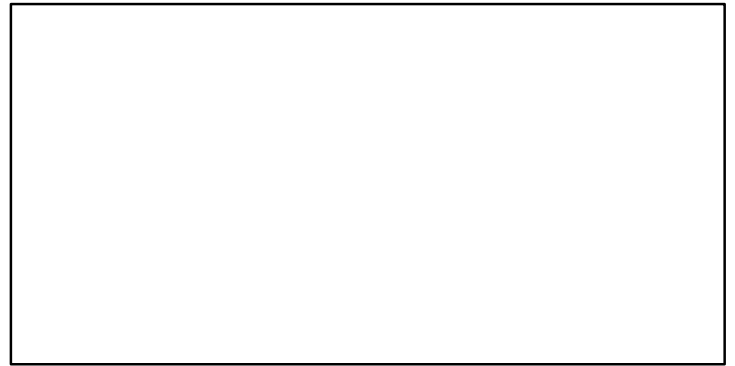
TAC*, Cpair*, Cadv*



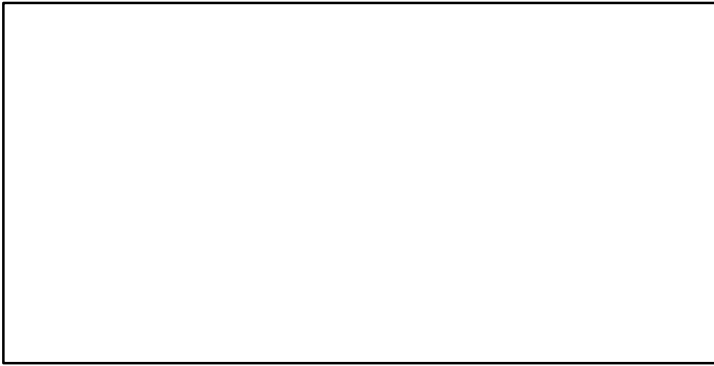
survB*



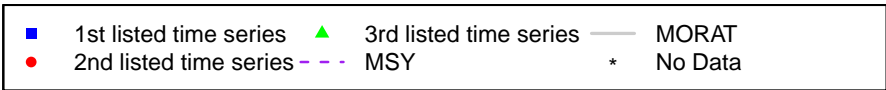
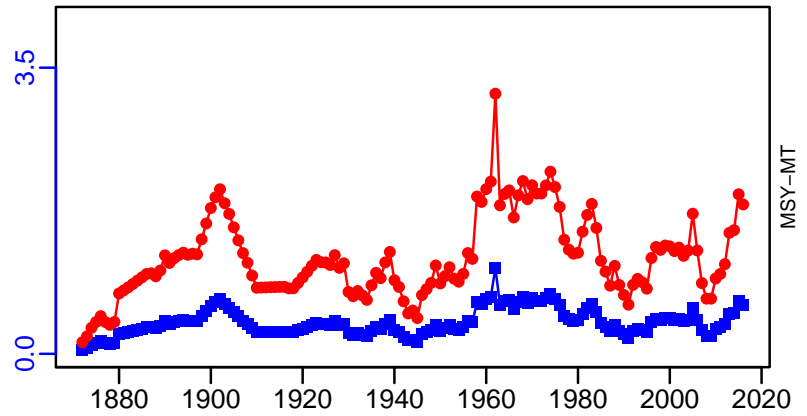
CPUE*



EFFORT*



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



Red snapper Southern Atlantic coast [RSNAPSATLC]

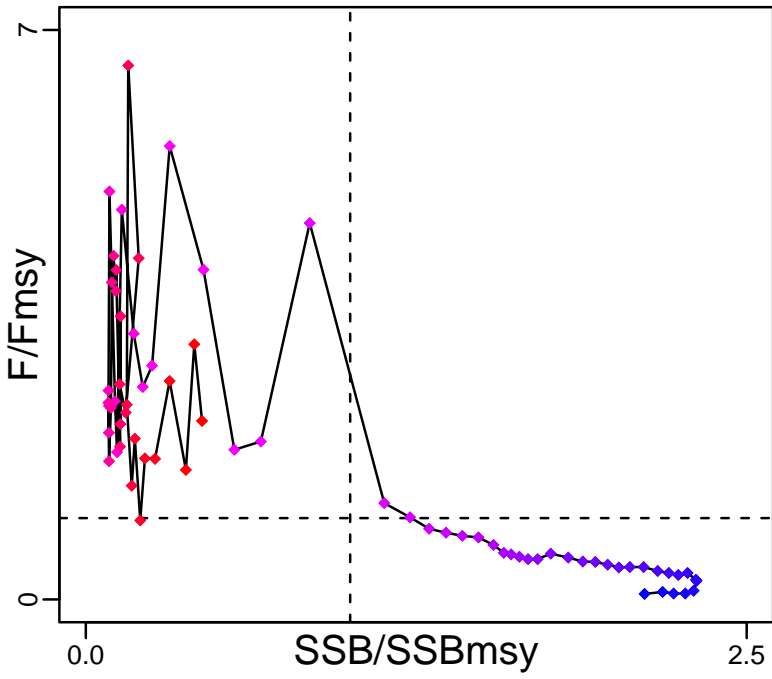
Metadata	
Scientific Name	Lutjanus campechanus
Current Assess ID	SEFSC-RSNAPSATLC-1949-2019-SISIMP2022
Area	Southern Atlantic coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2019, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2010	13,632
SSBmsy	SSBmsy-E00eggs	2019	$6.354,26 \times 10^{13}$
Fmsy	Fmsy-1/yr	2019	0.206
ERmsy	ERmsy-calc-ratio	2010	0.061
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	184
M	M-1/yr	2010	0.08
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2014	2.46×10^{13}
Flim	Flim-1/yr	2014	0.146
ERlim	-	-	-

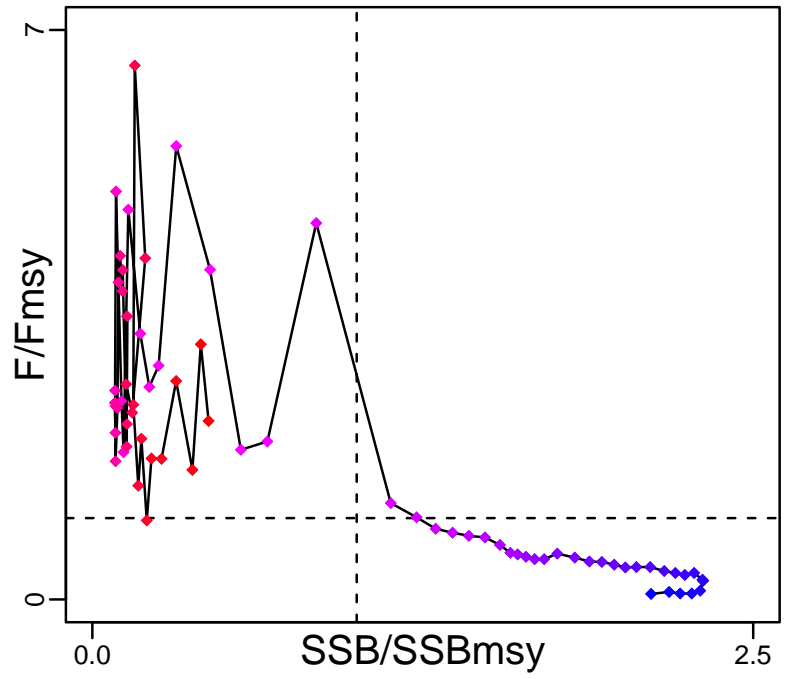
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	1430	-	-
SSB	SSB-E00eggs	2019	$2.791,91 \times 10^{13}$	-	-
TN	-	-	-	-	-
R	R-E00	2019	1,212,587	-	1
F	F-1/yr	2019	0.452	-	-
ER	ER-calc-ratio	2010	0.335	-	-
TC	TC-MT	2014	330		
TL	TL-MT	2010	653		
TB/TBmsy	TB-MT/TBmsy-MT	2010	0.105		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2019	0.439		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	2.194		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2010	5.464		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red snapper Southern Atlantic coast [RSNAPSATLC]

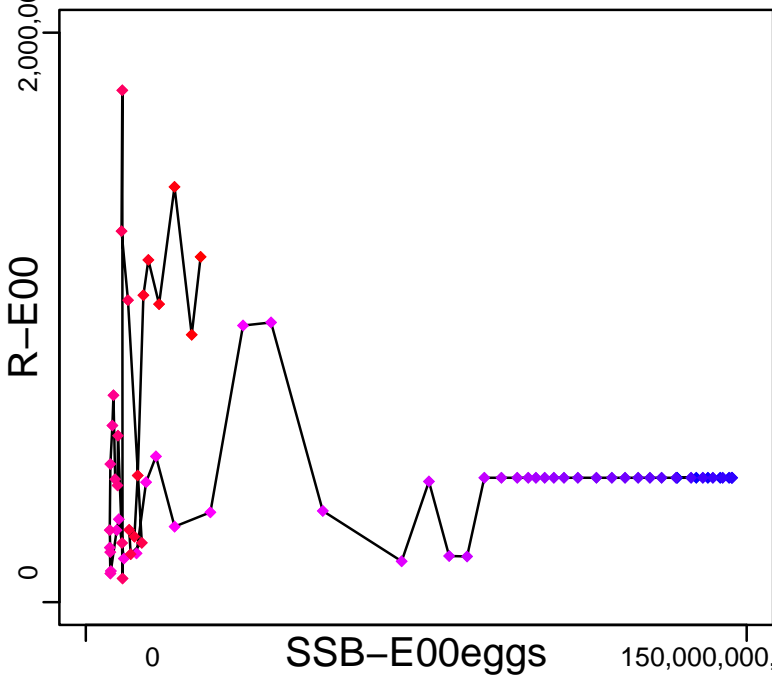
Kobe MSYpref (1949–2019–SISIMP2022)



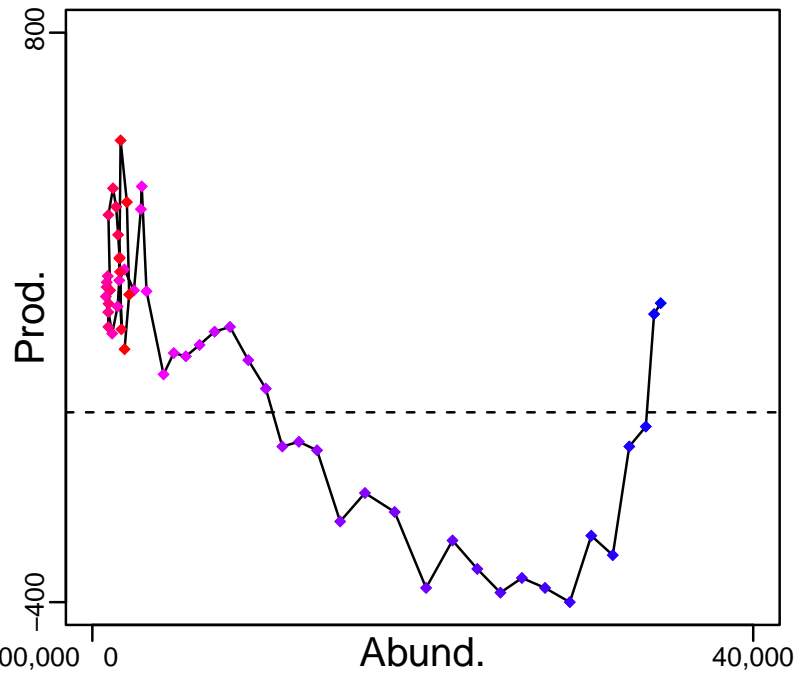
Kobe MGTpref (1949–2019–SISIMP2022)



Spawner Recruit (1949–2019–SISIMP2022)



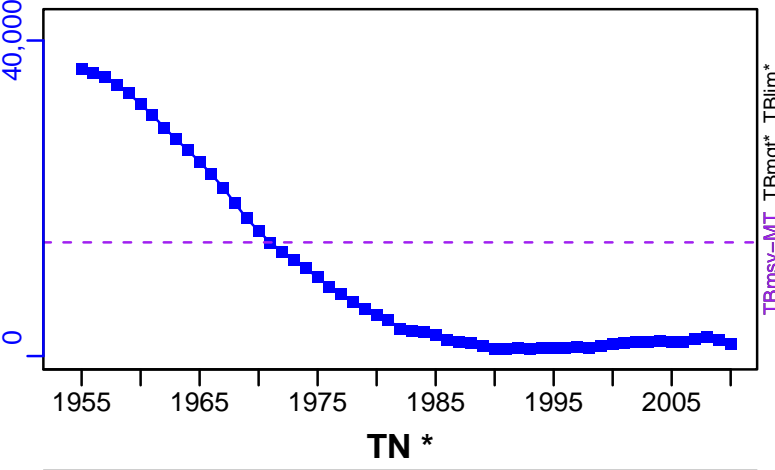
Production (1954–2010–HIVELY)



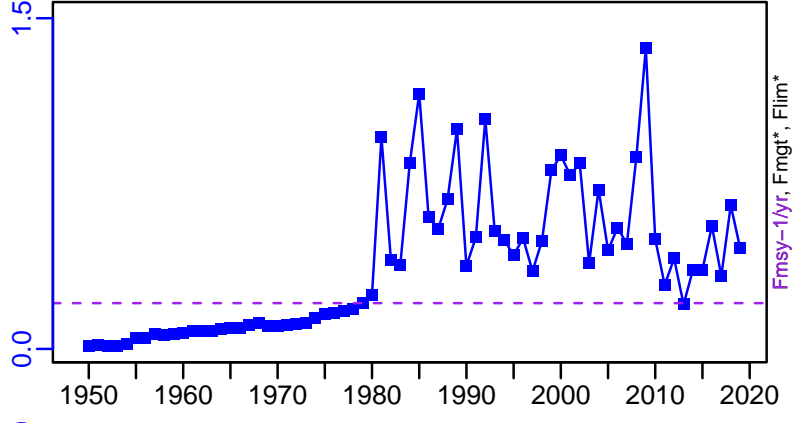
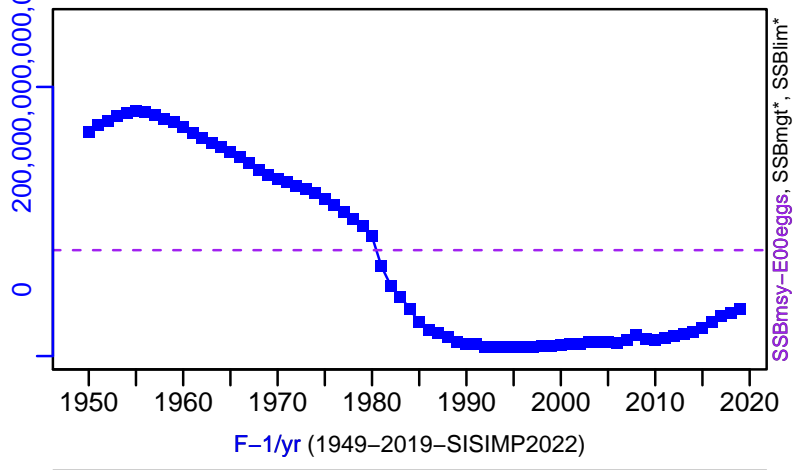
◆ Start Year ◆ End Year * No Data

Red snapper Southern Atlantic coast [RSNAPSATLC]

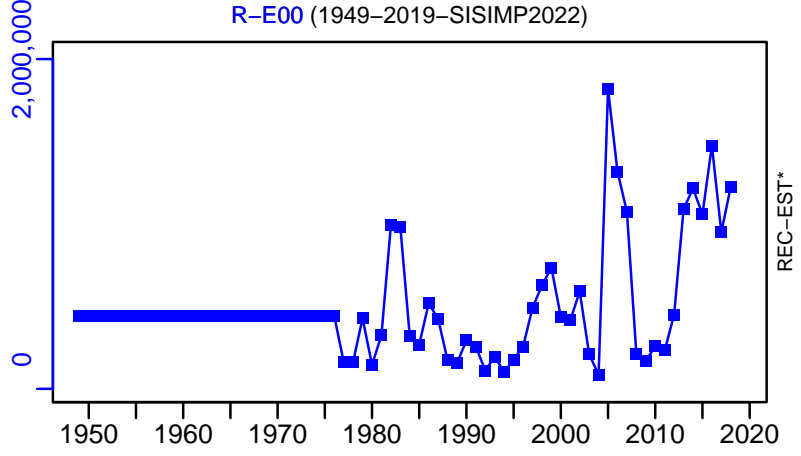
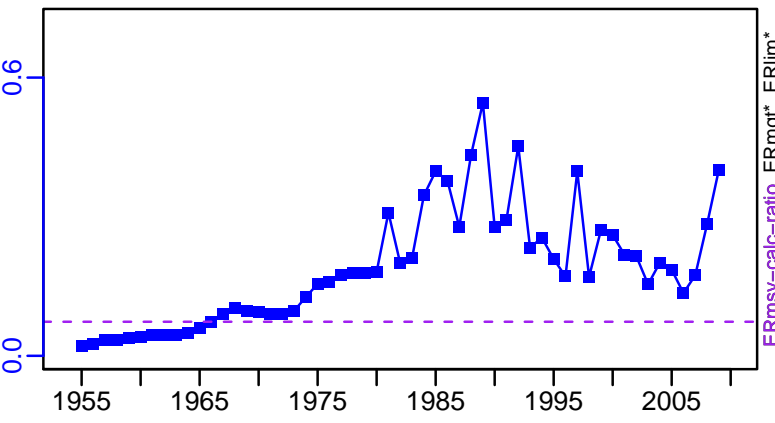
TB-MT (1954-2010-HIVELY)



SSB-E00eggs (1949-2019-SISIMP2022)



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

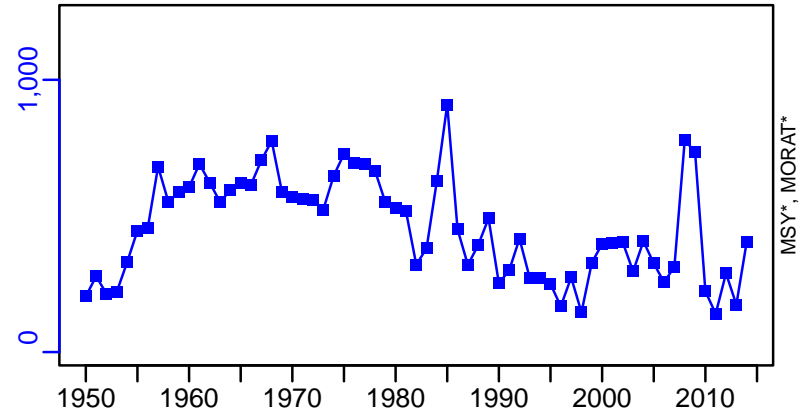


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	- - - Lim BRP	* No Data

Red snapper Southern Atlantic coast [RSNAPSATLC]

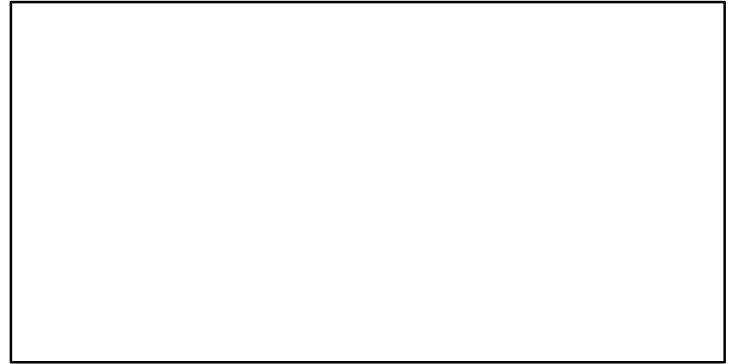
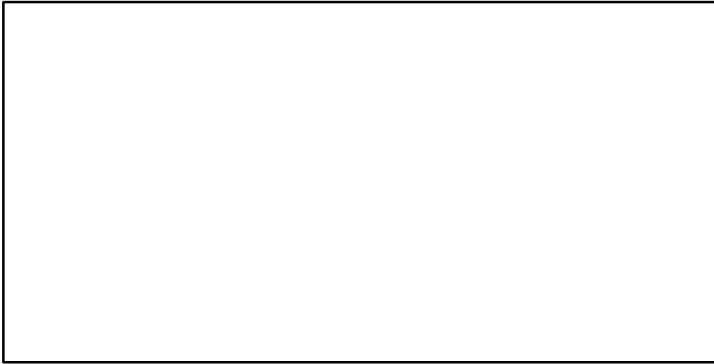
TC-MT, TL*, RecC* (1950-2014-SISIMP2016)

TAC*, Cpair*, Cadv*



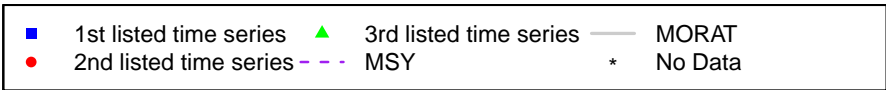
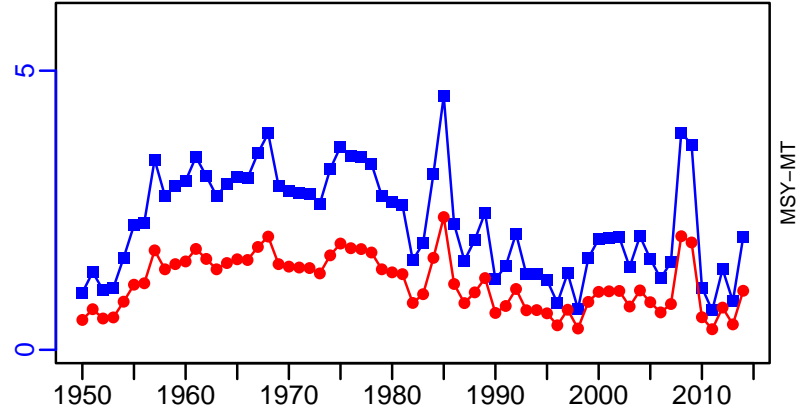
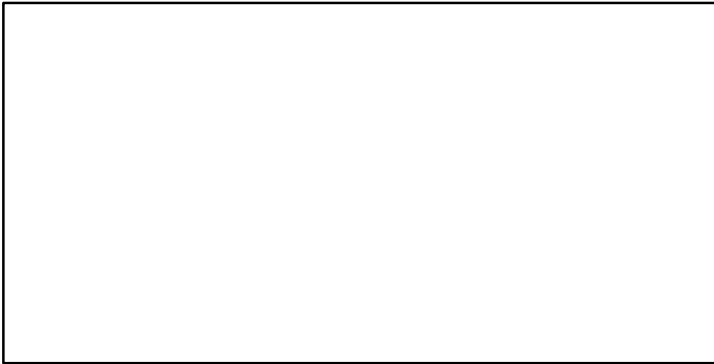
survB*

CPUE*



EFFORT*

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



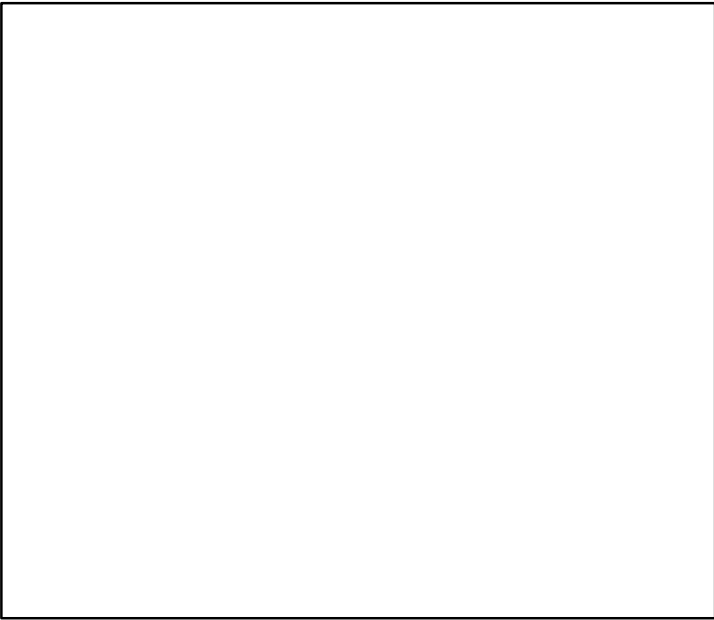
Seabreams spp North West Africa Morocco [SBMSPPNWAMAR]

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

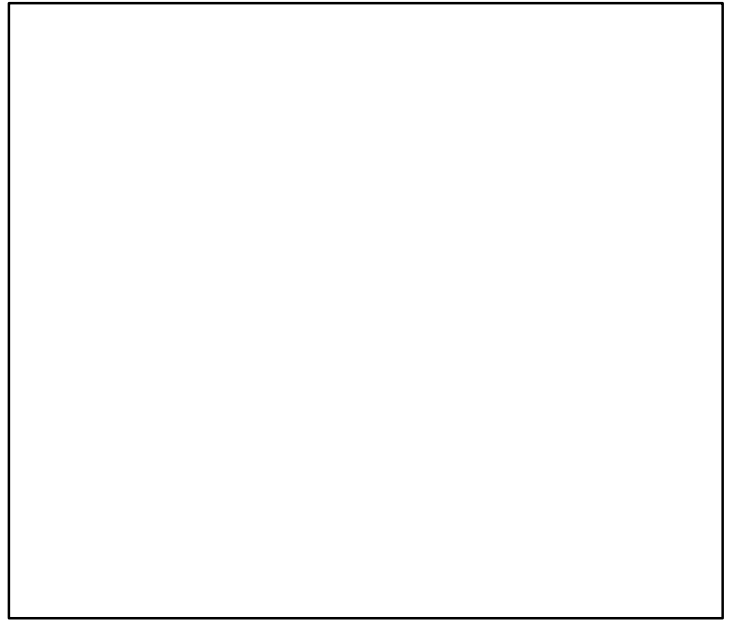
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

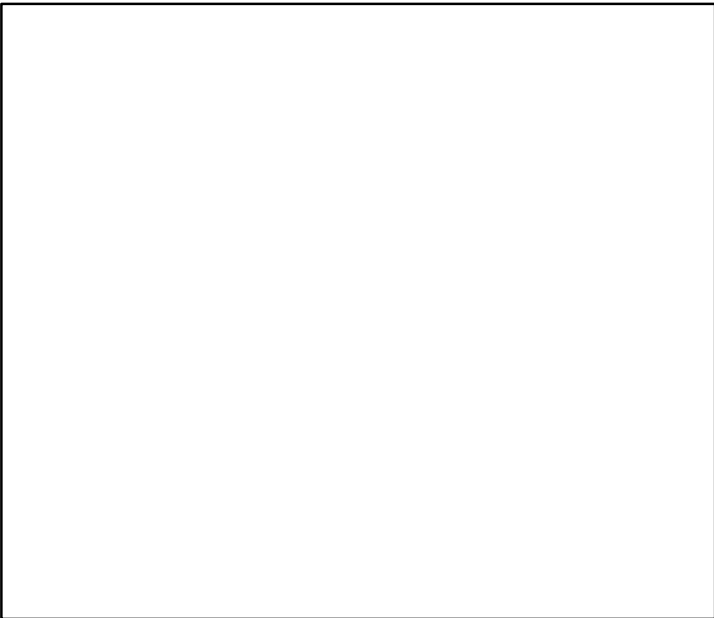
Kobe MSY*



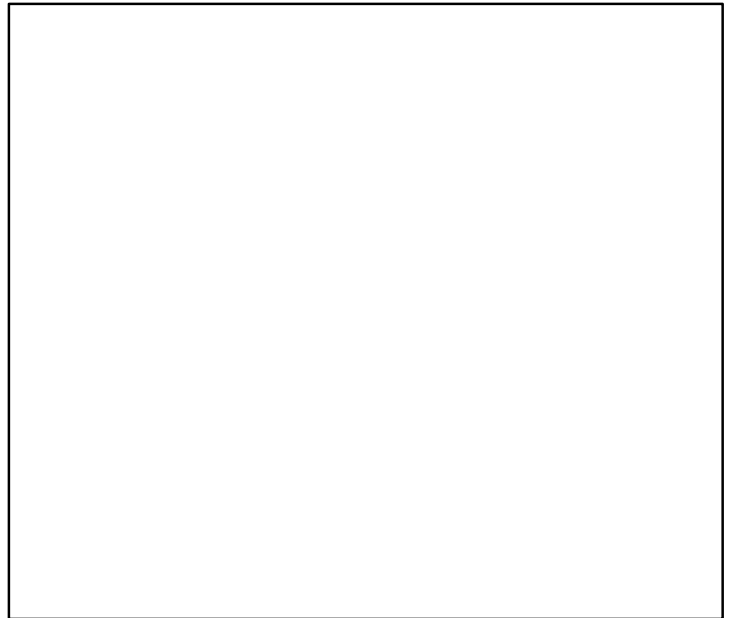
Kobe MGT*



Spawner Recruit*



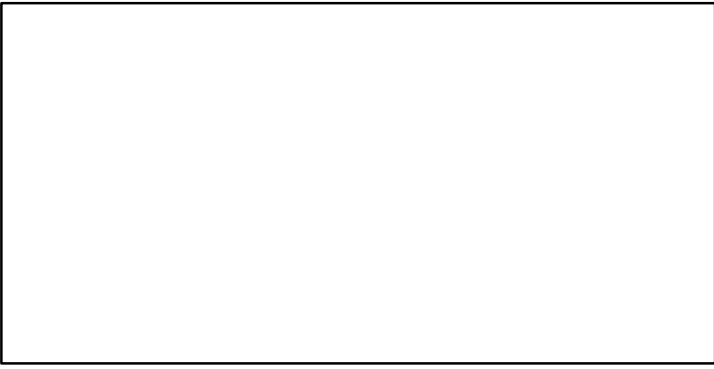
Production*



◆ Start Year ◆ End Year * No Data

Seabreams spp North West Africa Morocco [SBMSPPNWAMAR]

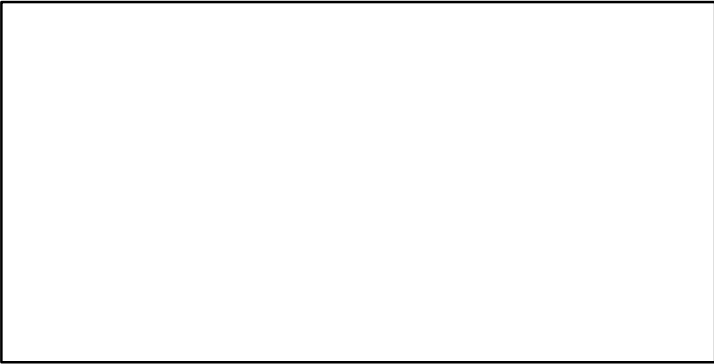
TB*



SSB*



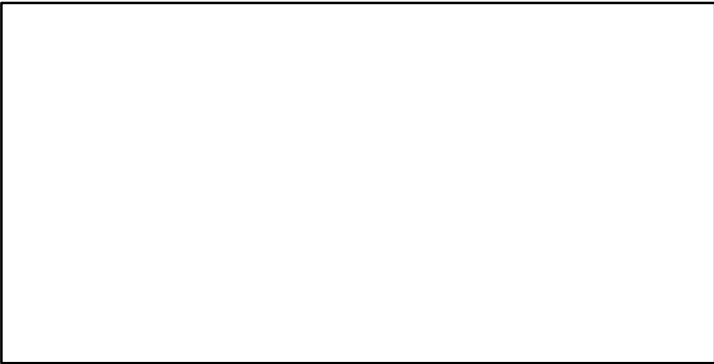
TN *



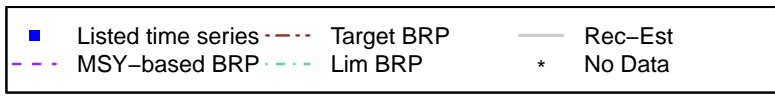
F*



ER*



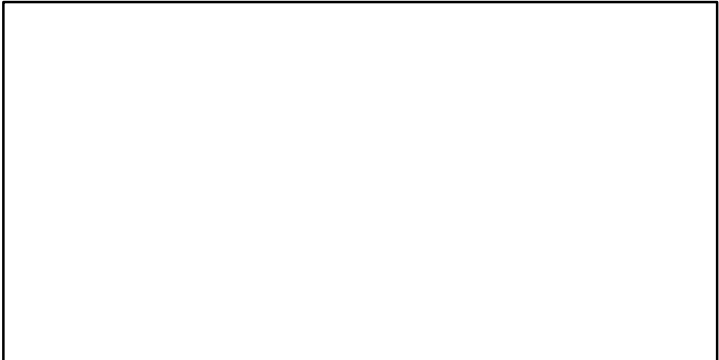
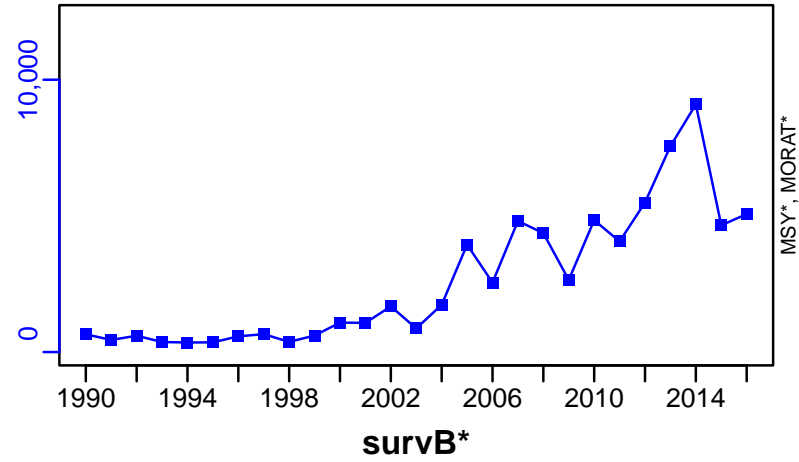
Recruits*



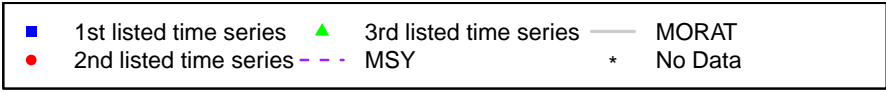
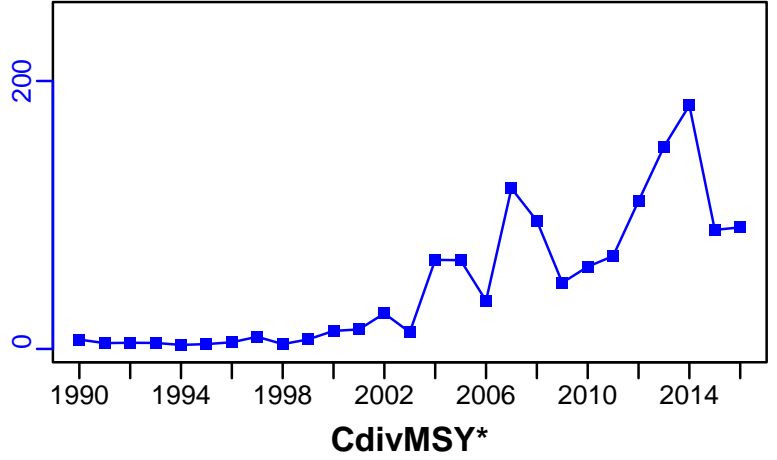
Seabreams spp North West Africa Morocco [SBMSPPNWAMAR]

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

TAC*, Cpair*, Cadv*



CPUE-index (1990-2016-ASHBROOK)



Deepwater cardinalfish Chile [SBREAMCH]

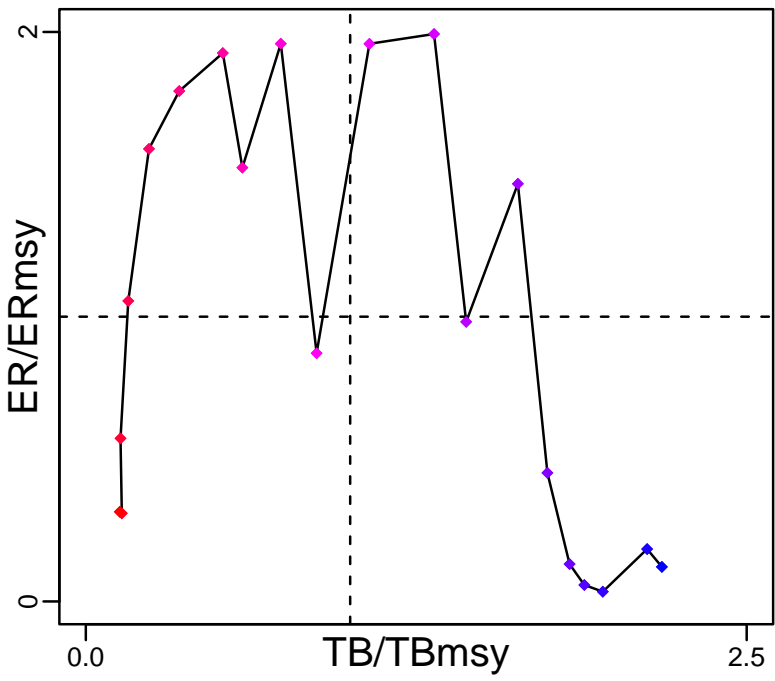
Metadata	
Scientific Name	Epigonus crassicaudus
Current Assess ID	SPRFMO-SBREAMCH-1989-2011-CHING
Area	Chile
Management Authority	South Pacific Regional Fisheries Management Organization
Assessor	South Pacific Regional Fisheries Management Organization
Asmts in RAM	2011

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

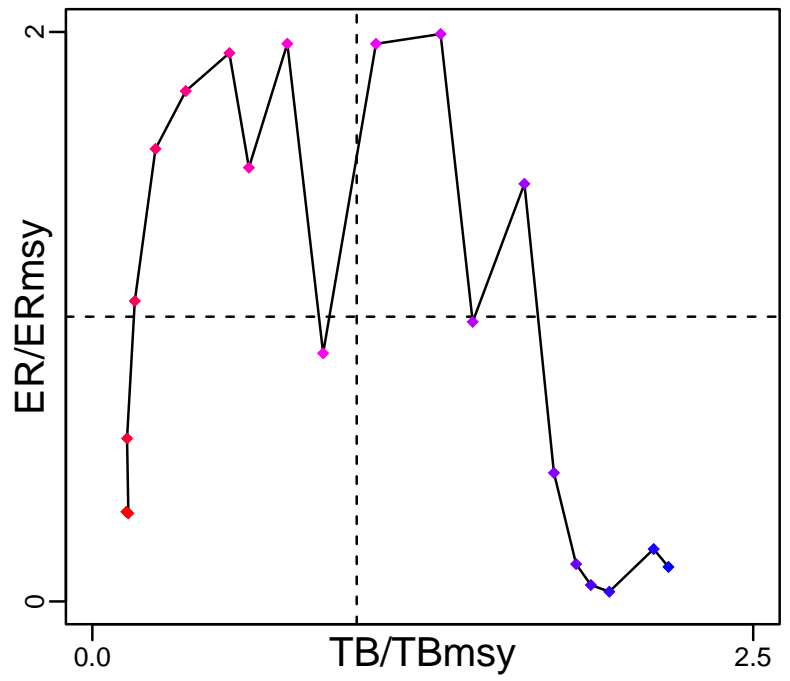
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	920	-	-
SSB	SSB-MT	2011	607	-	-
TN	-	-	-	-	-
R	R-E00	2011	553,000	-	-
F	F-1/yr	2011	12.2	-	-
ER	ER-calc-ratio	2011	0.097	-	-
TC	-	-	-	-	-
TL	TL-MT	2011	89	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	-	-	-	-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

Deepwater cardinalfish Chile [SBREAMCH]

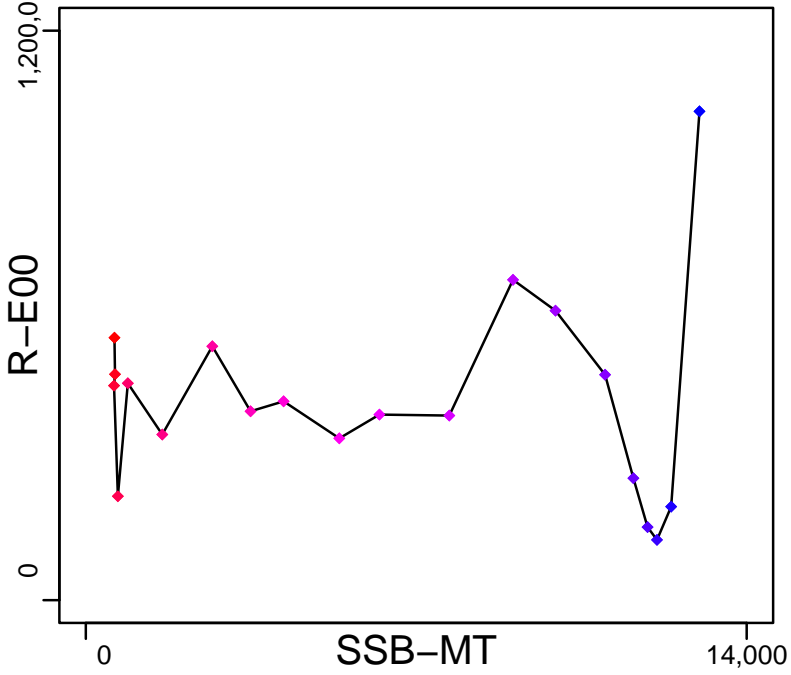
Kobe MSYpref (1989–2011–CHING)



Kobe MGTpref (1989–2011–CHING)



Spawner Recruit (1989–2011–CHING)



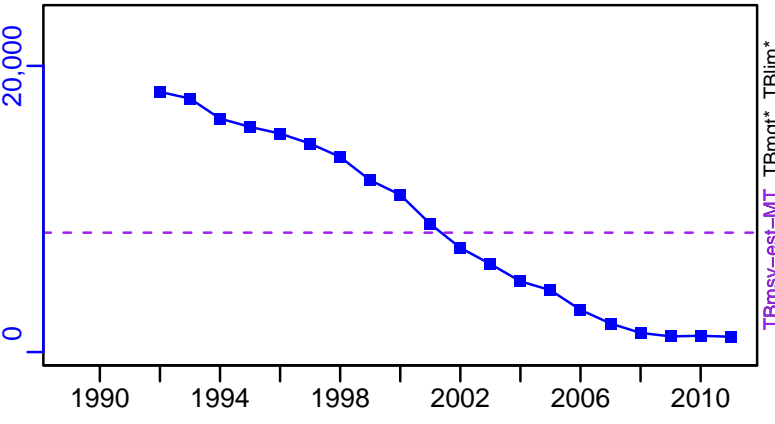
Production*



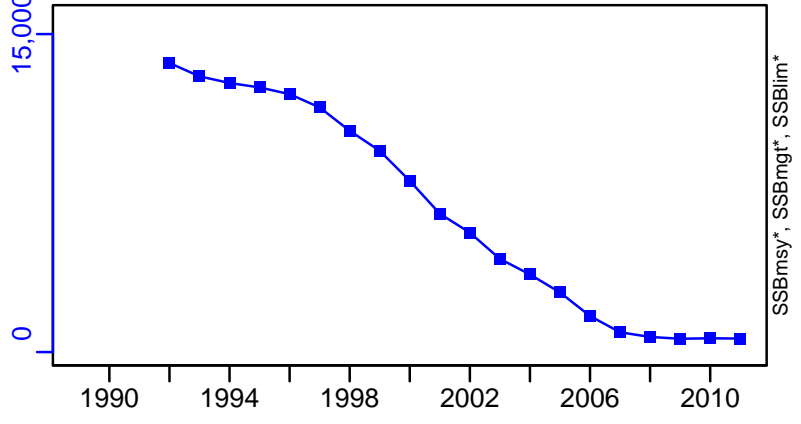
◆ Start Year ◆ End Year * No Data

Deepwater cardinalfish Chile [SBREAMCH]

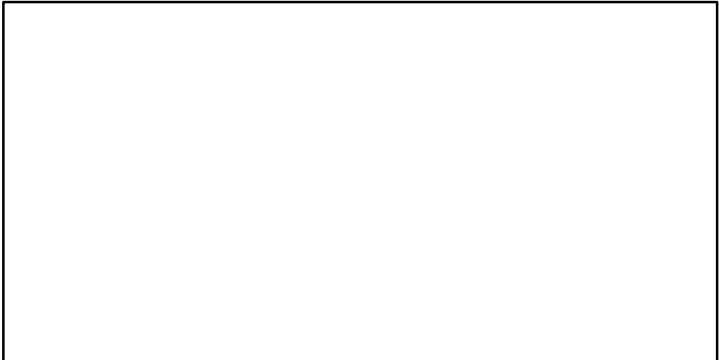
TB-MT (1989-2011-CHING)



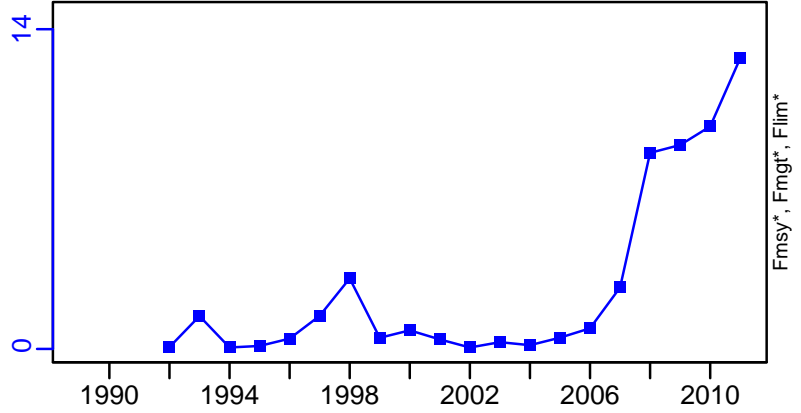
SSB-MT (1989-2011-CHING)



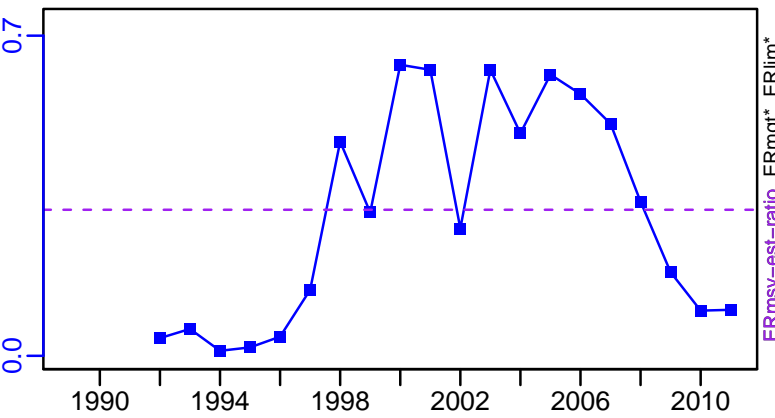
TN *



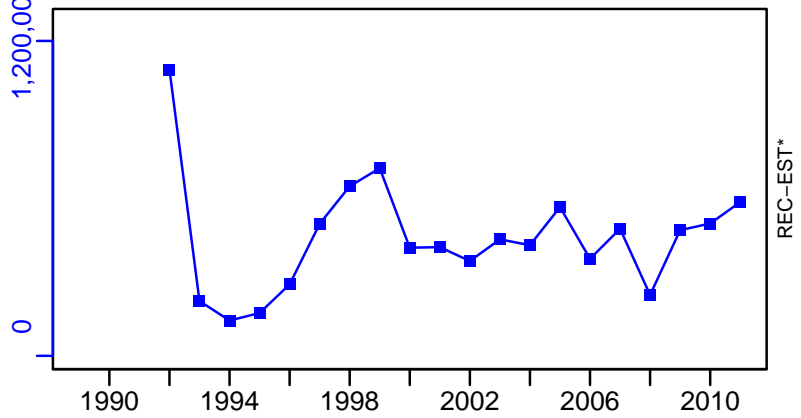
F-1/yr (1989-2011-CHING)



ER-calc-ratio (1989-2011-CHING)



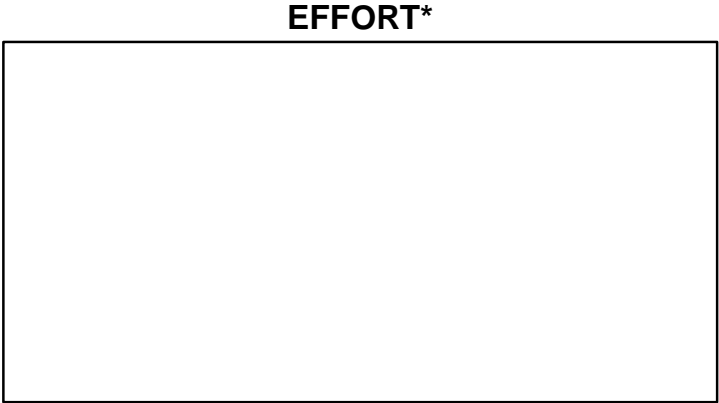
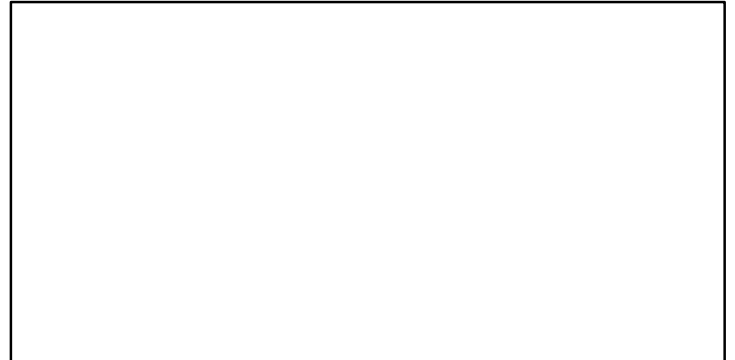
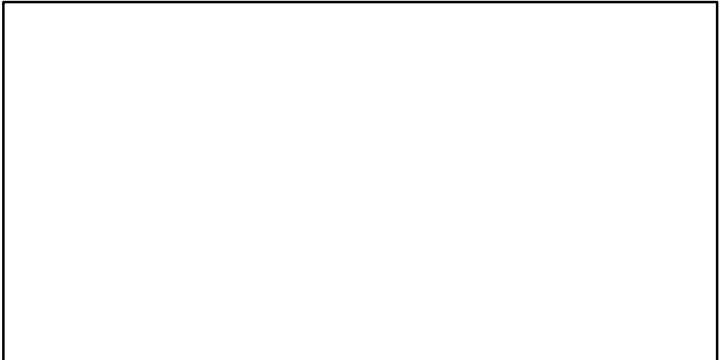
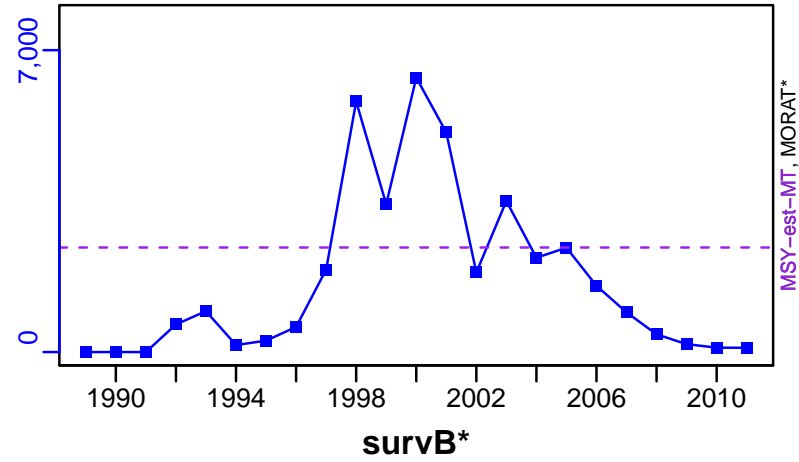
R-E00 (1989-2011-CHING)



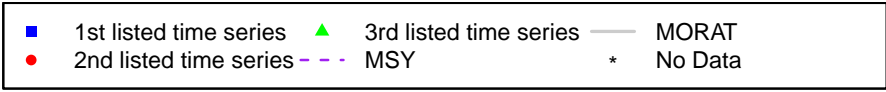
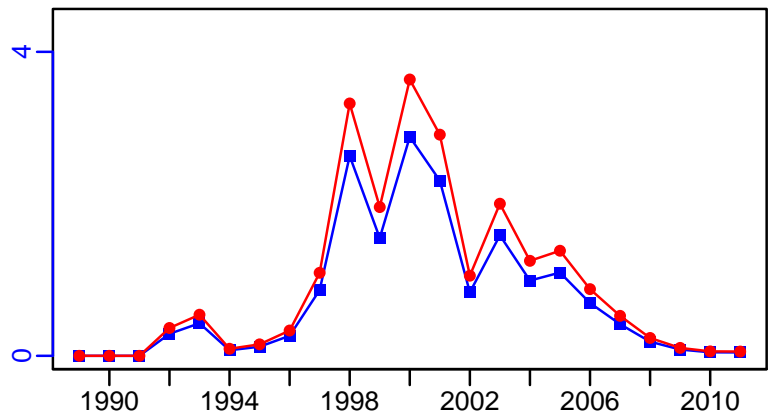
Deepwater cardinalfish Chile [SBREAMCH]

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

TAC*, Cpair*, Cadv*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1989-2011-CHING)



Scup Northwestern Atlantic Coast [SCUPNWATLC]

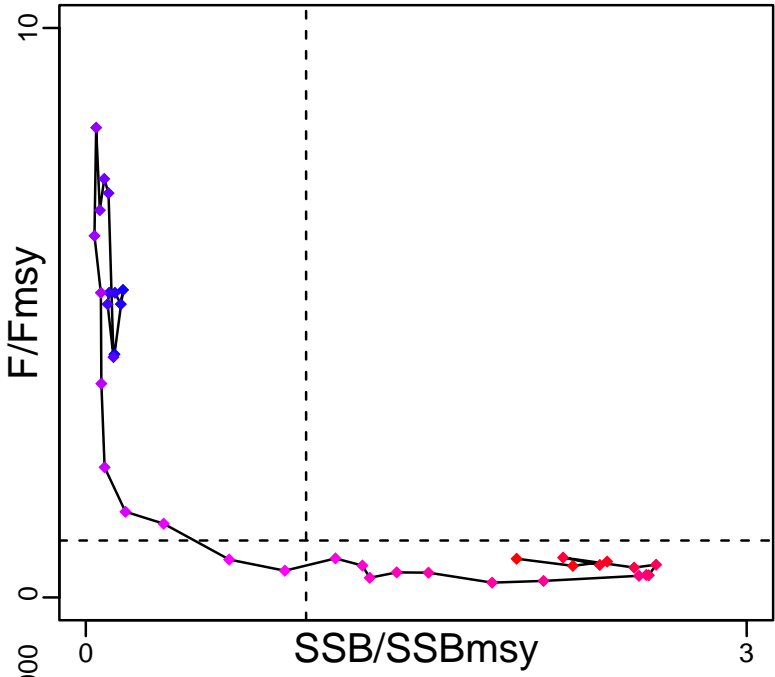
Metadata	
Scientific Name	Stenotomus chrysops
Current Assess ID	NEFSC-SCUPNWATLC-1981-2019-SISIMP2021-2
Area	Northwestern Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2016, 2018, 2019, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	90,000
Fmsy	Fmsy-1/yr	2019	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	12,700
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	45,000
Flim	Flim-1/yr	2019	0.2
ERlim	-	-	-

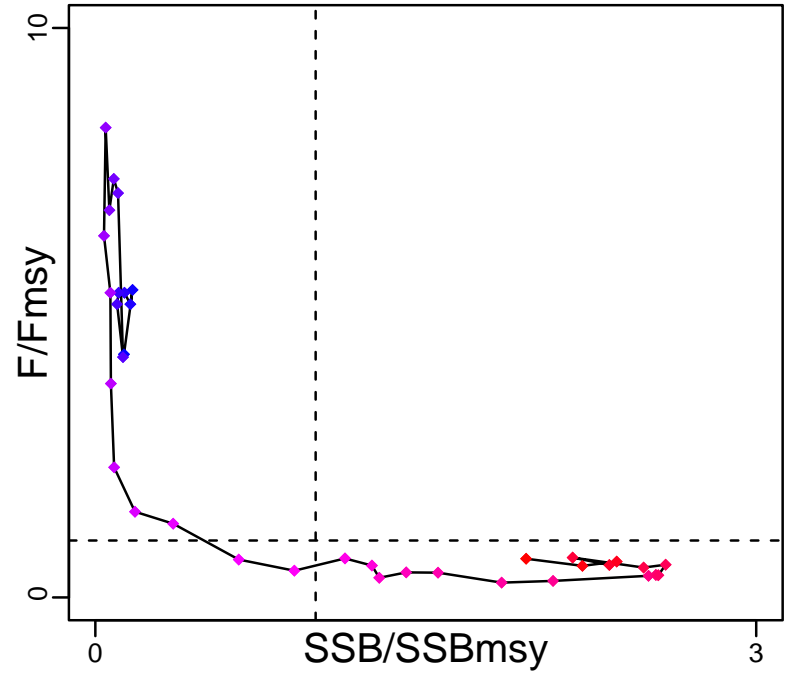
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	176,000	-	-
TN	-	-	-	-	-
R	R-E00	2019	3.41×10^{10}	-	0
F	F-1/yr	2019	0.136	-	-
ER	ER-ratio	2007	0.029	-	-
TC	TC-MT	2019	16,000		
TL	TL-MT	2007	4200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.956		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.68		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Scup Northwestern Atlantic Coast [SCUPNWATLC]

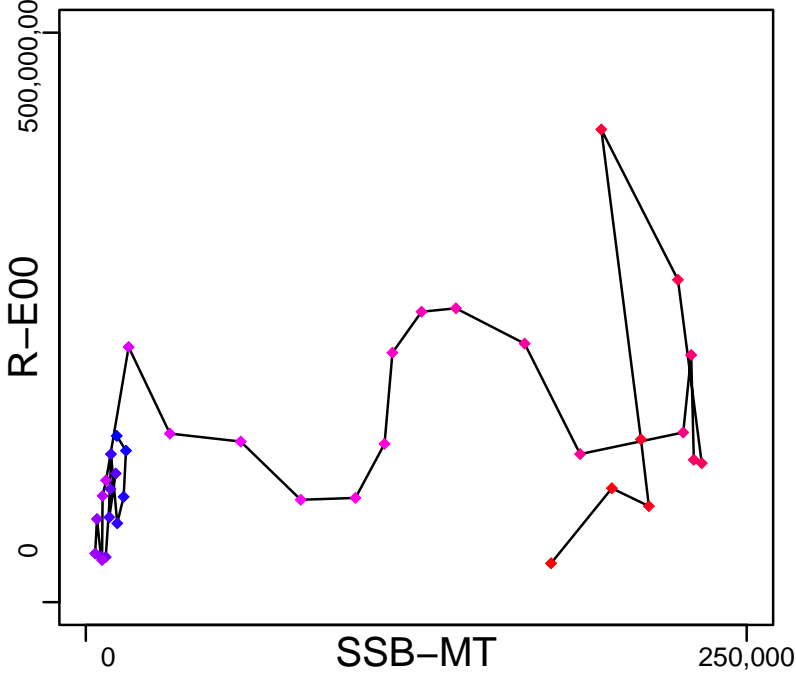
Kobe MSYpref (1981-2019-SISIMP2021-2)



Kobe MGTpref (1981-2019-SISIMP2021-2)



Spawner Recruit (1981-2019-SISIMP2021-2)



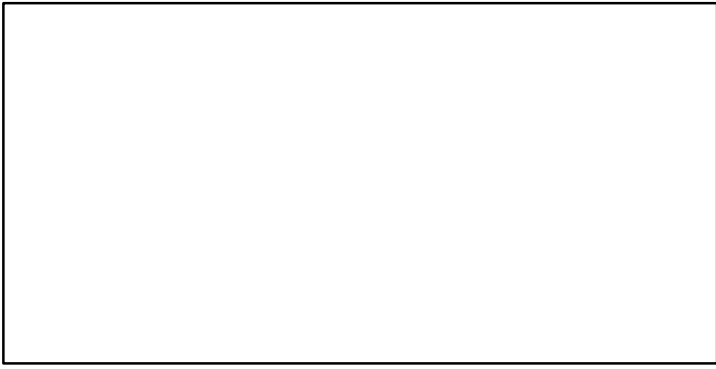
Production*



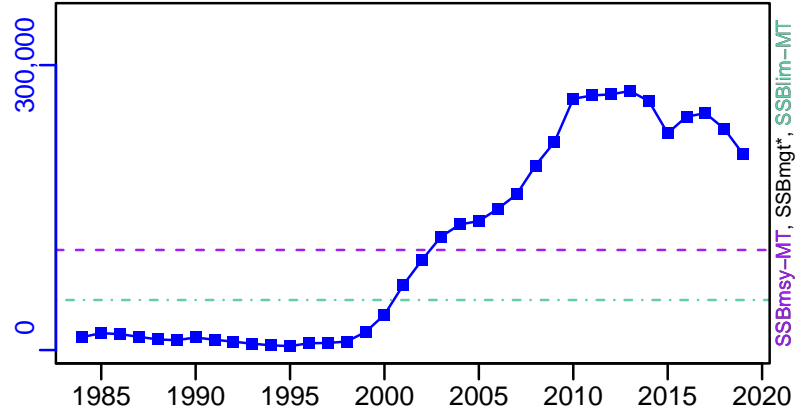
◆ Start Year ◆ End Year * No Data

Scup Northwestern Atlantic Coast [SCUPNWATLC]

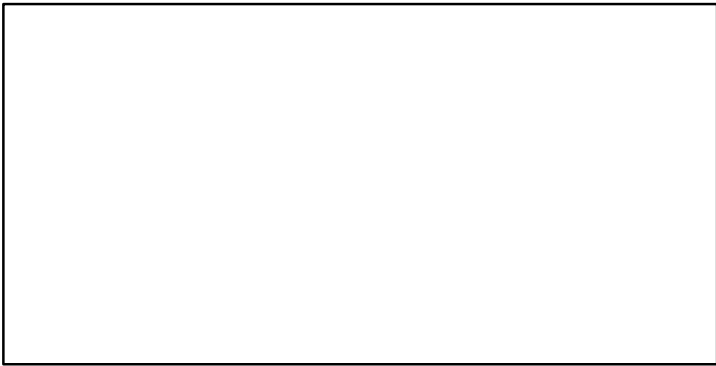
TB*



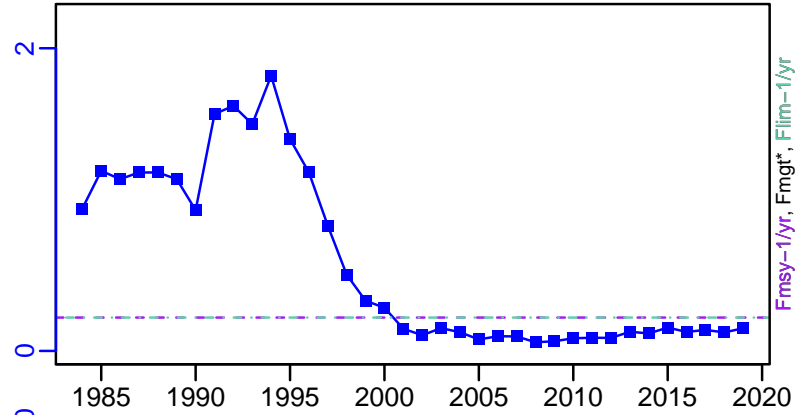
SSB-MT (1981-2019-SISIMP2021-2)



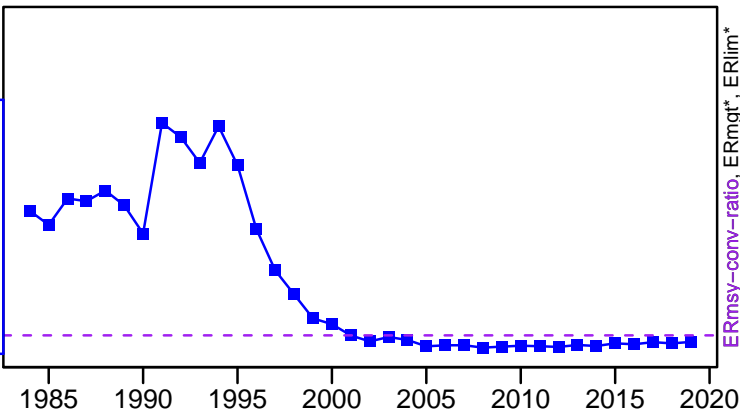
TN *



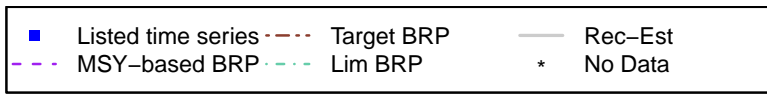
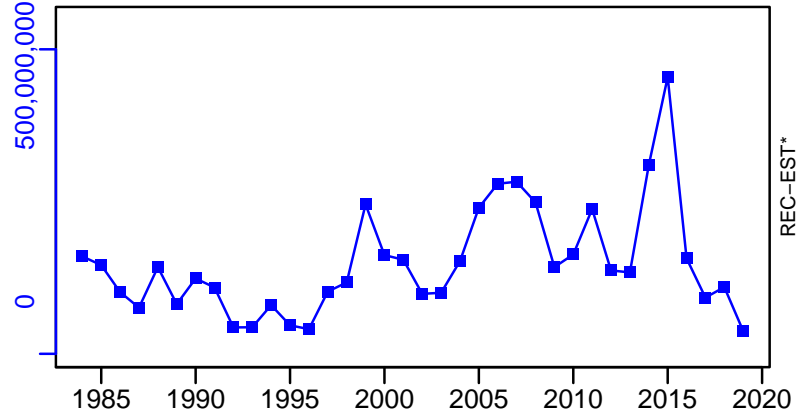
F-1/yr (1981-2019-SISIMP2021-2)



ER-calc-ratio (1981-2019-SISIMP2021-2)



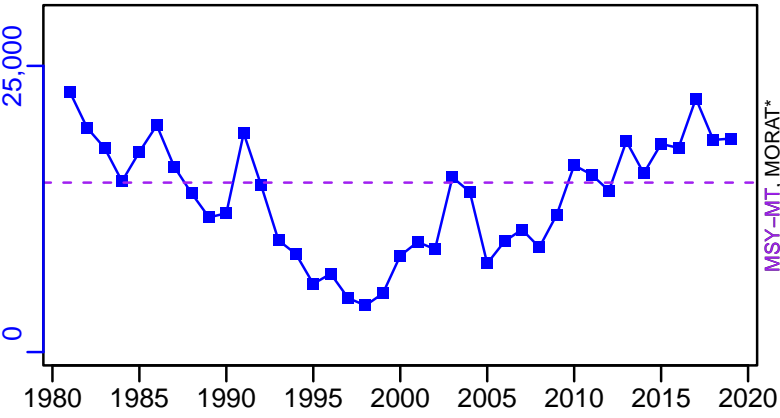
R-E00 (1981-2019-SISIMP2021-2)



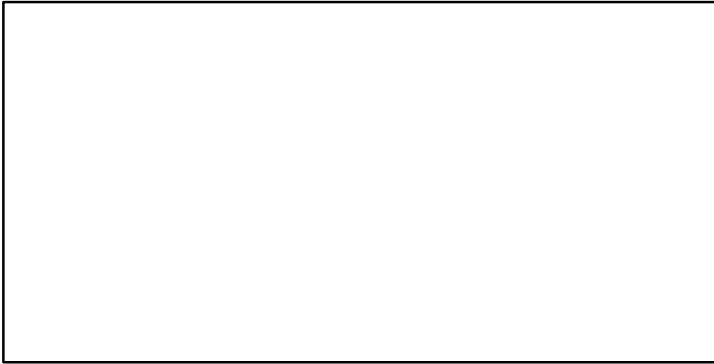
Scup Northwest Atlantic Coast [SCUPNWATLC]

TC-MT, TL*, RecC* (1981-2019-SISIMP2021-2)

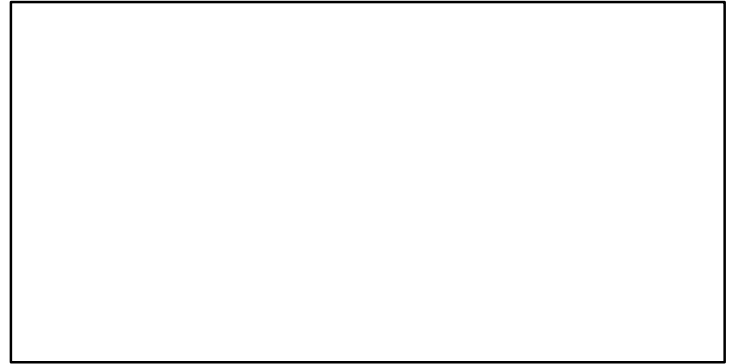
TAC*, Cpair*, Cadv*



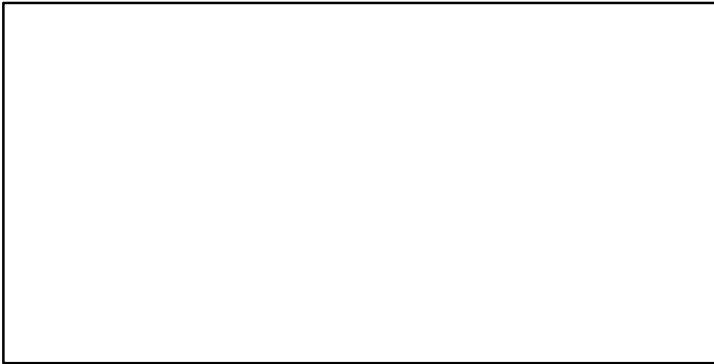
survB*



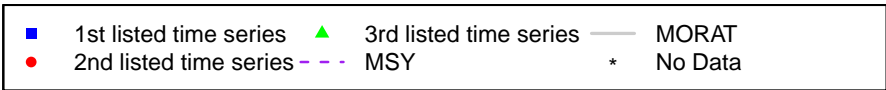
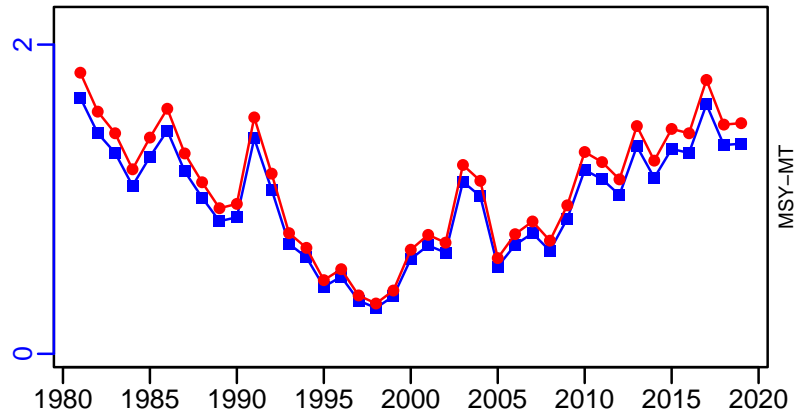
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1981-2019-SISIMP2021-2)



Silk snapper Caribbean [SKSNAPCARIB]

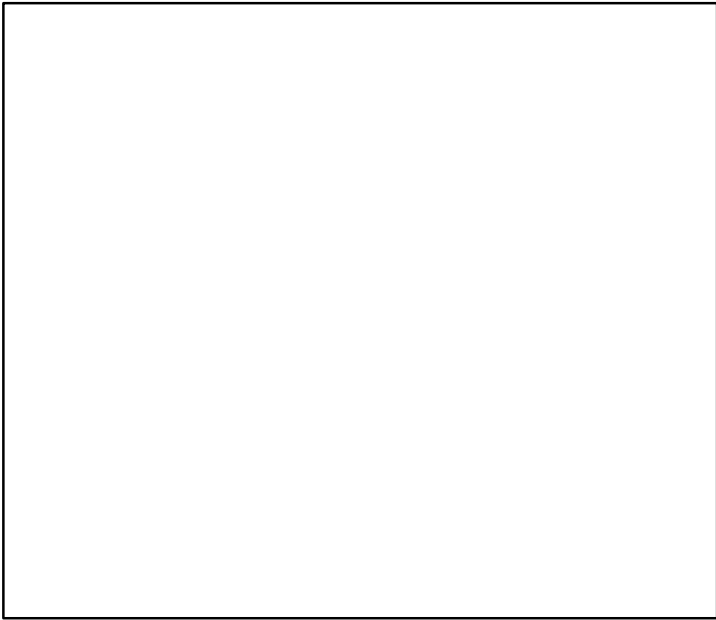
Metadata	
Scientific Name	Lutjanus vivanus
Current Assess ID	SEFSC-SKSNAPCARIB-1983-2009-SISIMP2016
Area	Caribbean
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2009

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

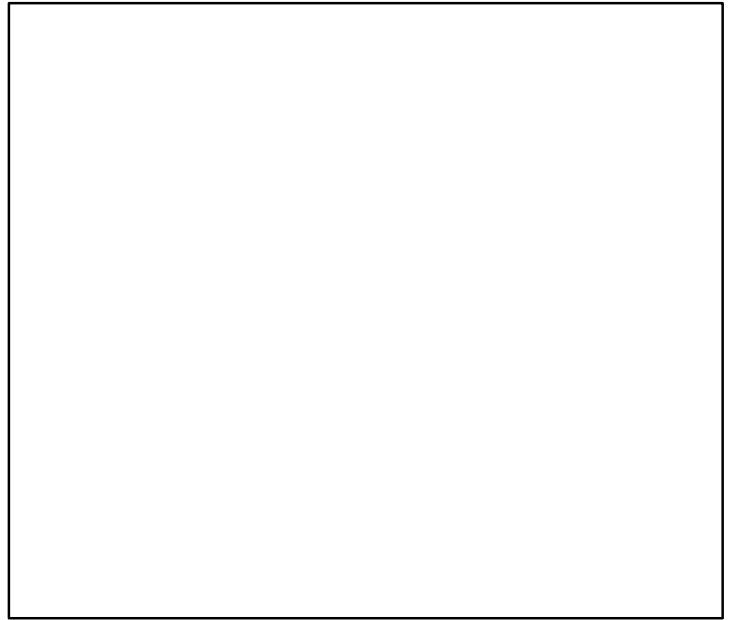
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2009	38		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Silk snapper Caribbean [SKSNAPCARIB]

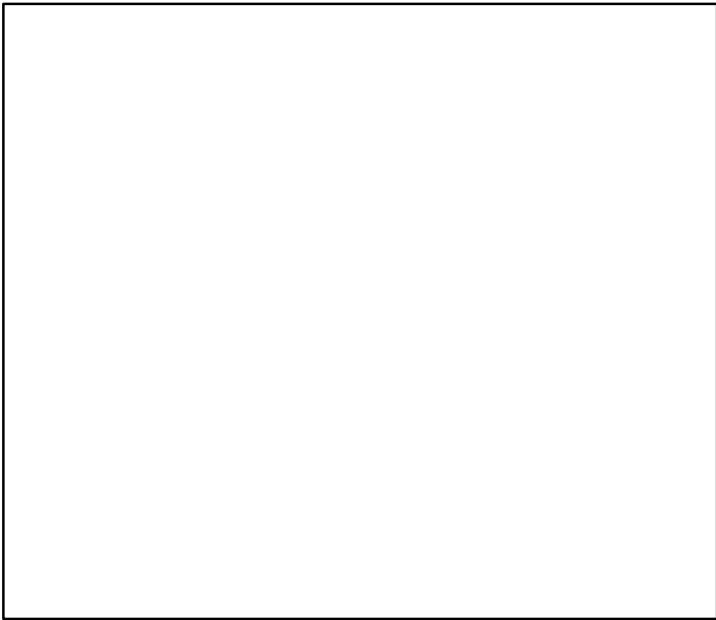
Kobe MSY*



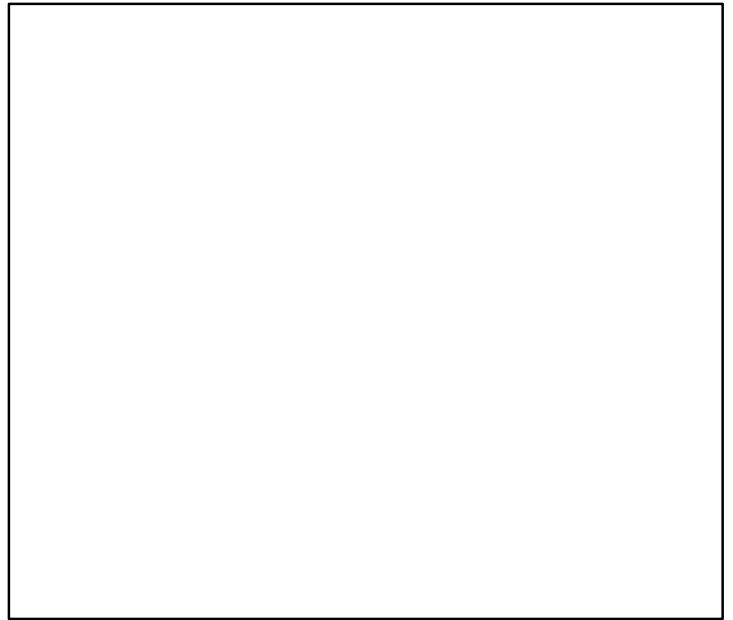
Kobe MGT*



Spawner Recruit*



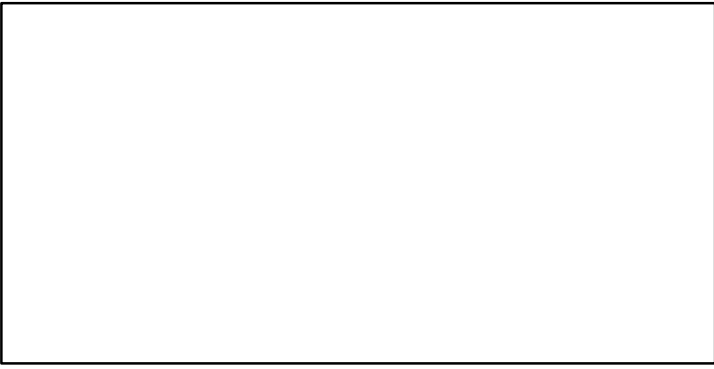
Production*



◆ Start Year ◆ End Year * No Data

Silk snapper Caribbean [SKSNAPCARIB]

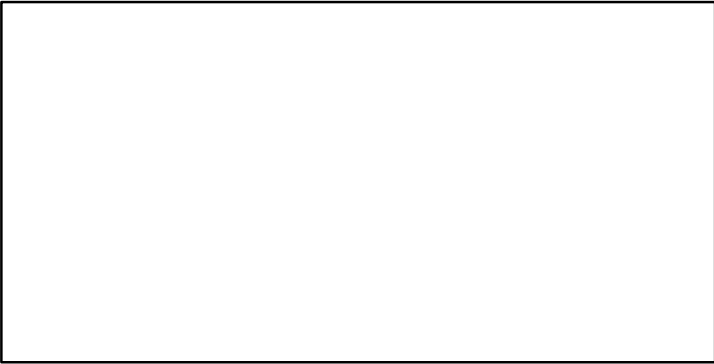
TB*



SSB*



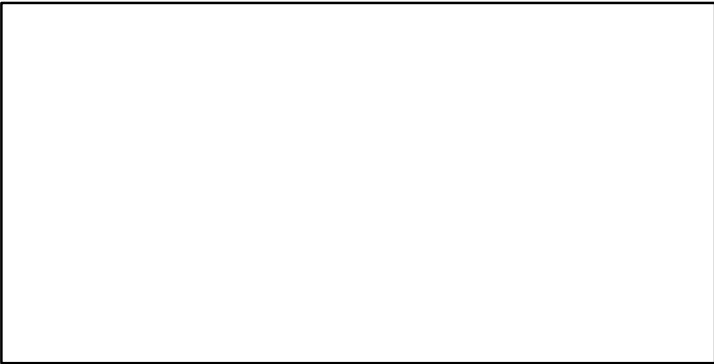
TN *



F*



ER*



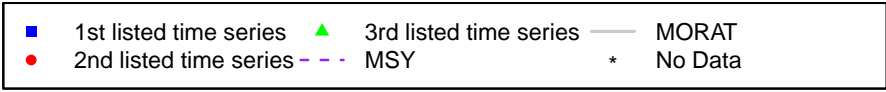
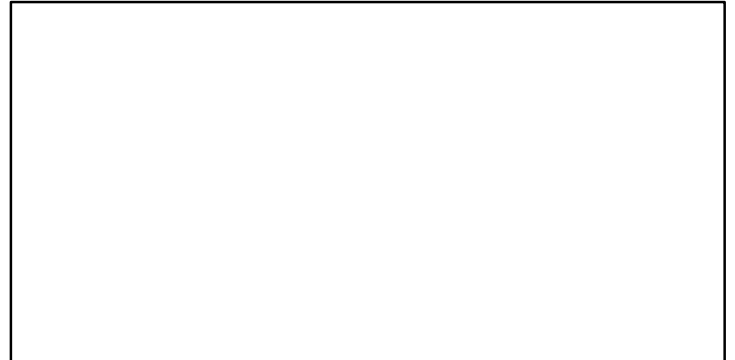
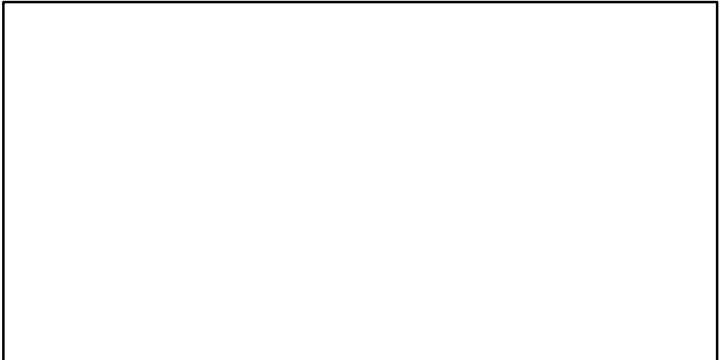
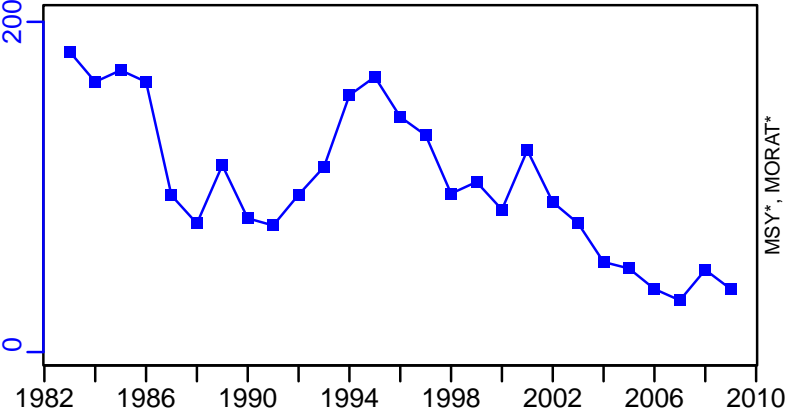
Recruits*



Silk snapper Caribbean [SKSNAPCARIB]

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

TAC*, Cpair*, Cadv*



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

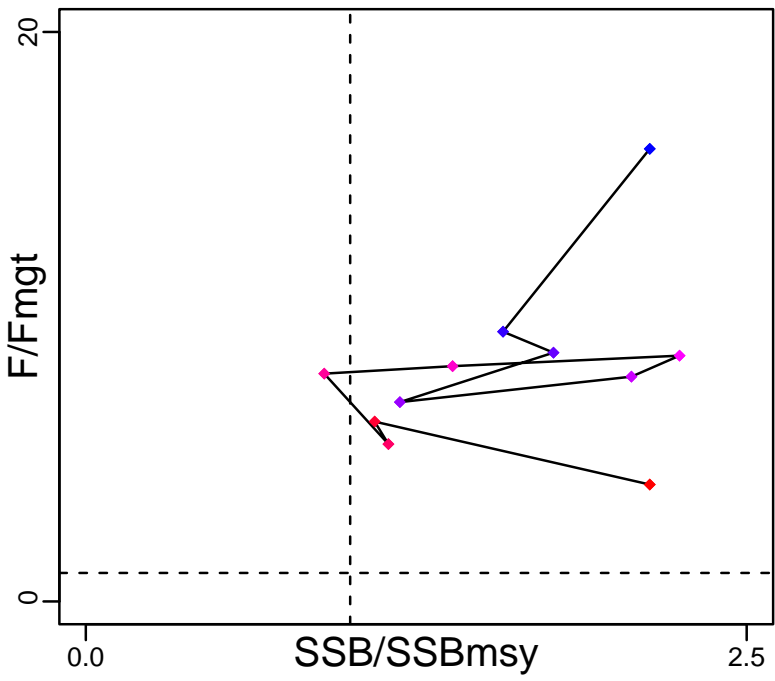
Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	STECF-SMULLMEDGSA15-16-2002-2012-OSIO
Area	Malta Island and South of Sicily (GSA 15, 16)
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee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

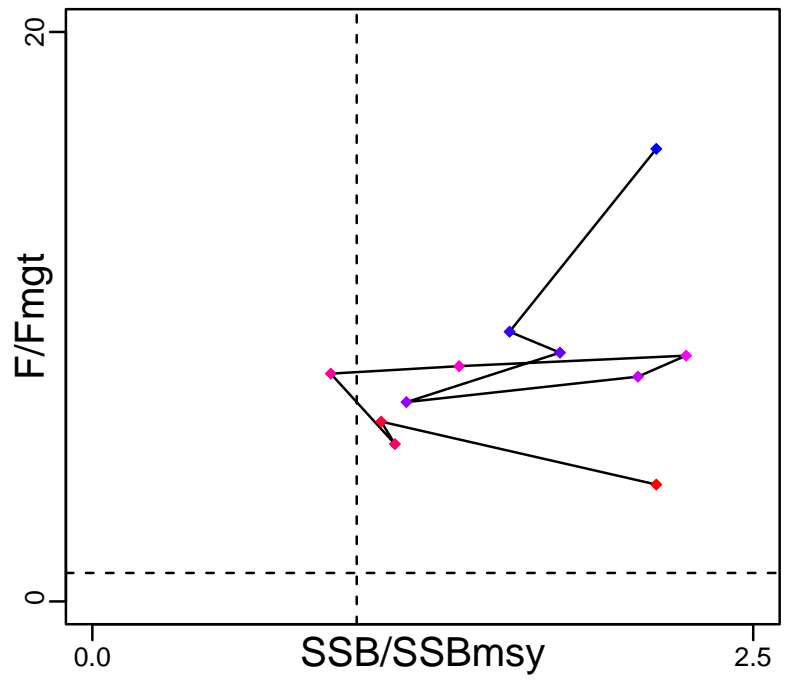
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	2460	-	2+
TN	-	-	-	-	-
R	R-E00	2012	4.2×10^7	-	-
F	F-1/yr	2012	0.78	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	753		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-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

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

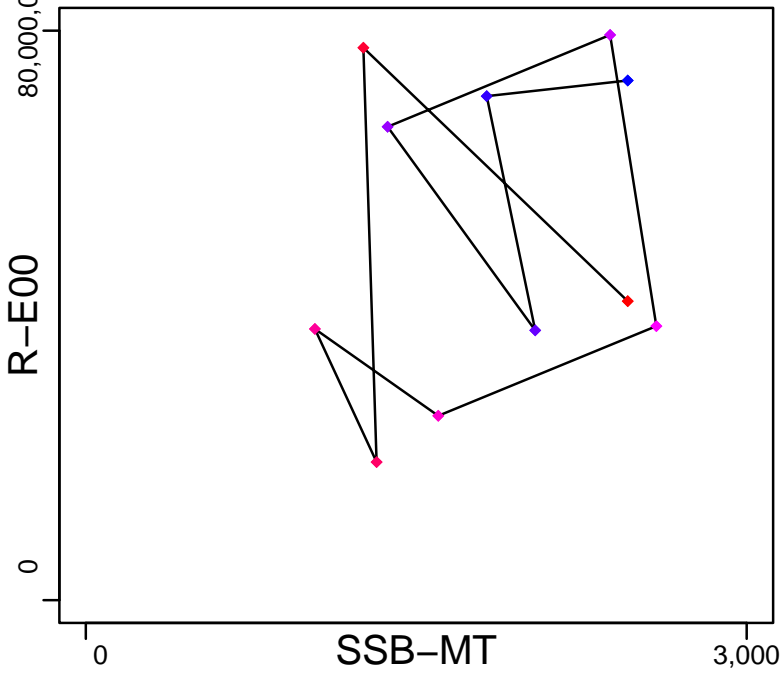
Kobe MSYpref (2002-2012-OSIO)



Kobe MGTpref (2002-2012-OSIO)



Spawner Recruit (2002-2012-OSIO)



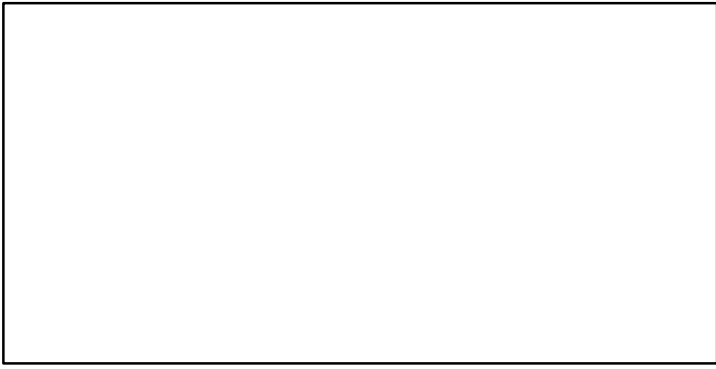
Production*



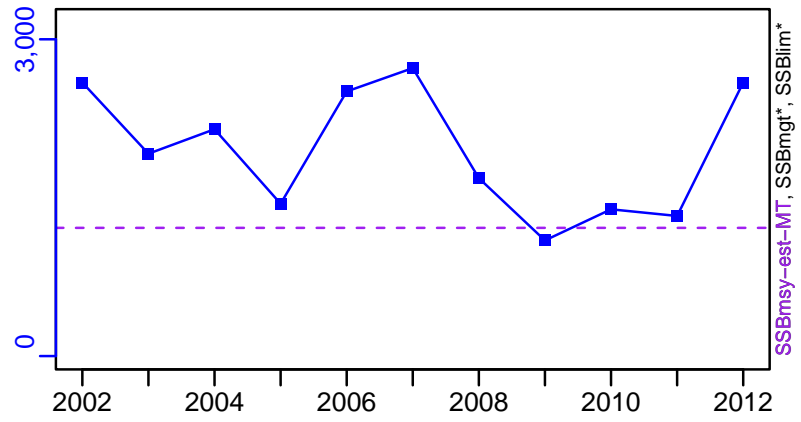
◆ Start Year ◆ End Year * No Data

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

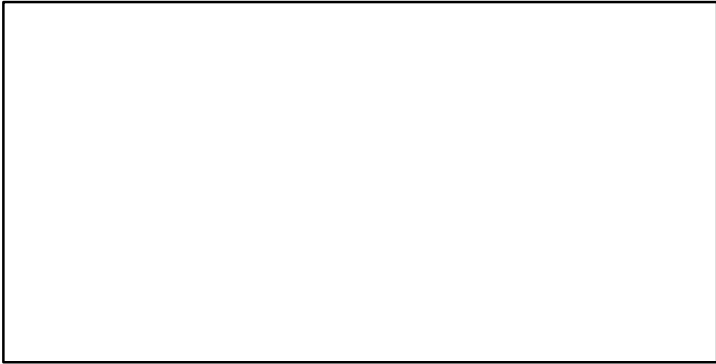
TB*



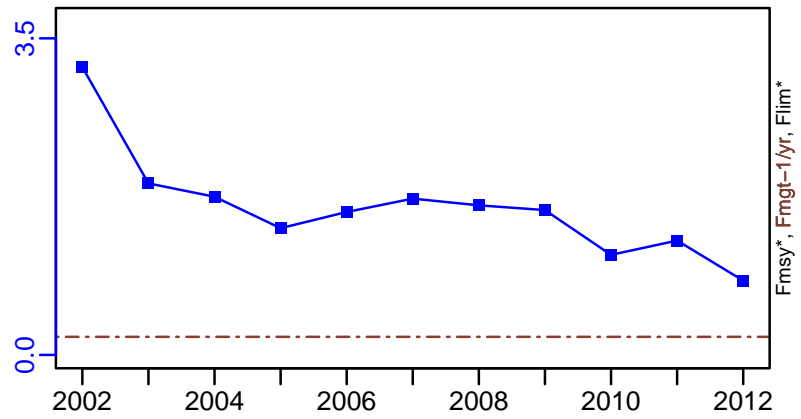
SSB-MT (2002-2012-OSIO)



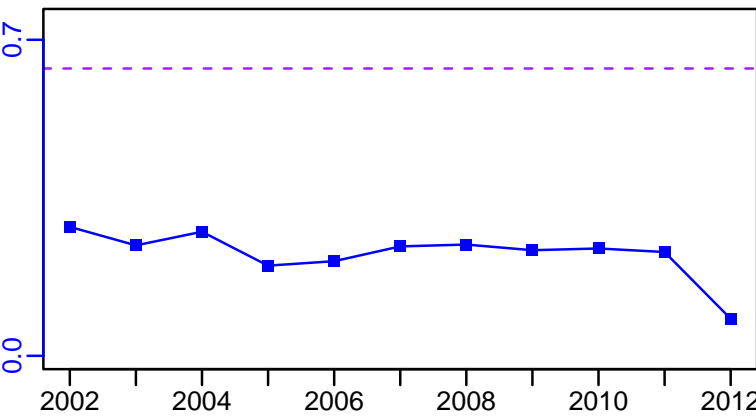
TN *



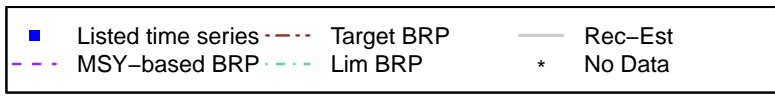
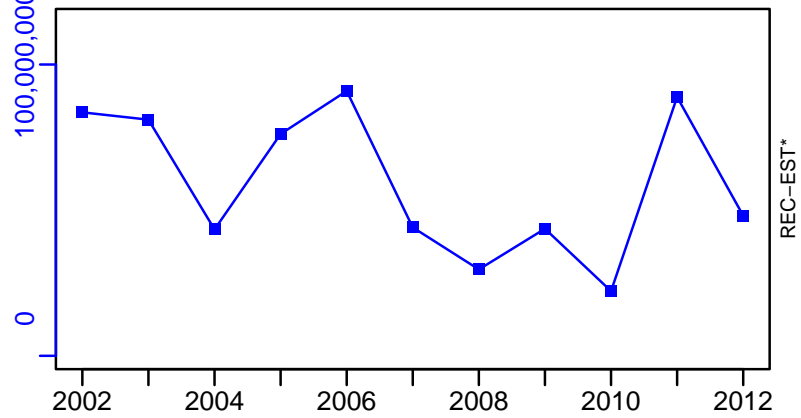
F-1/yr (2002-2012-OSIO)



ER-calc-ratio (2002-2012-OSIO)



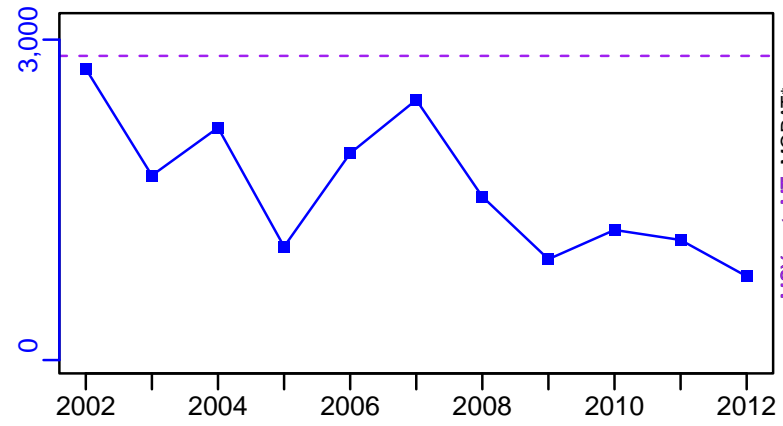
R-E00 (2002-2012-OSIO)



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

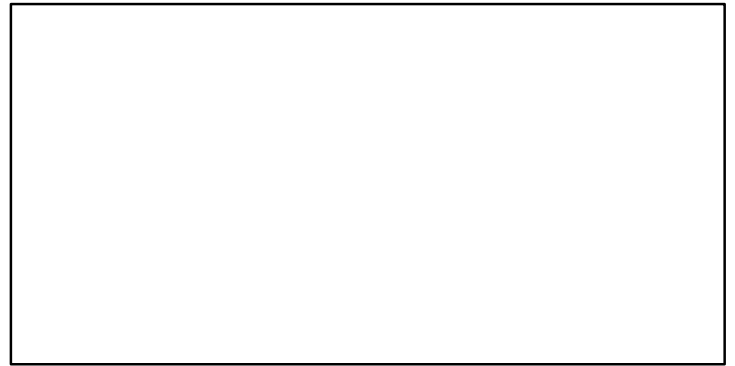
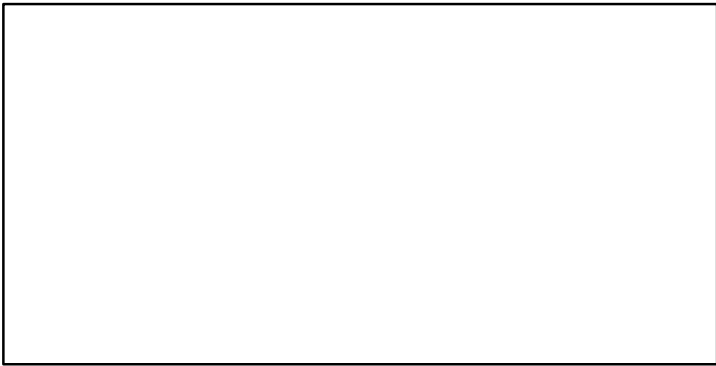
TC-MT, TL*, RecC* (2002-2012-OSIO)

TAC*, Cpair*, Cadv*



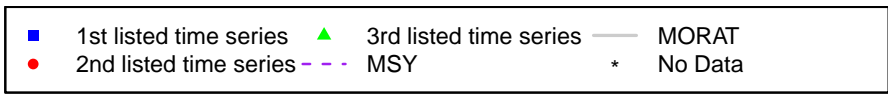
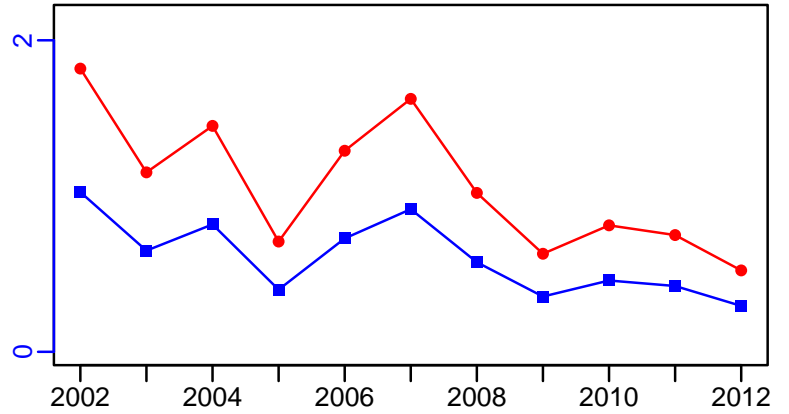
survB*

CPUE*



EFFORT*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (2002-2012-OSIO)



Surmullet Balearic Island [SMULLMEDGSA5]

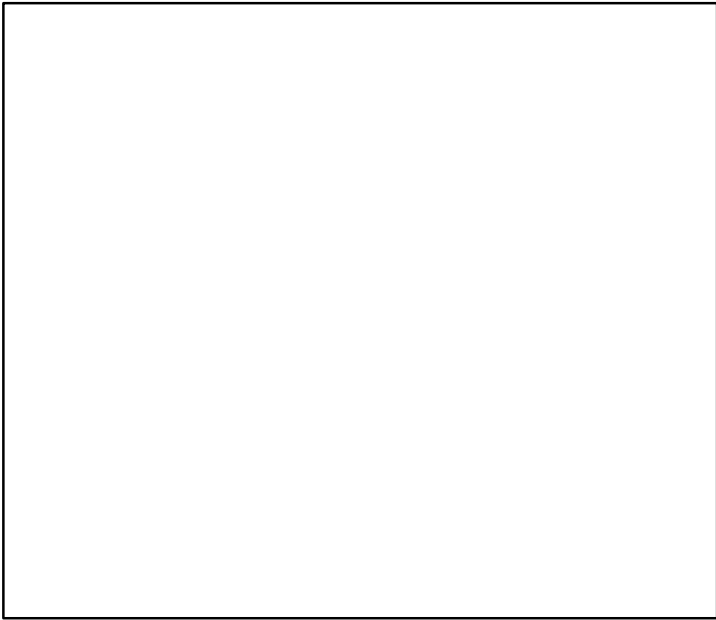
Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	WGSAD-SMULLMEDGSA5-2000-2021-HIVELY
Area	Balearic Island
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Working Group on Stock Assessment of Demersal Species
Asmts in RAM	2012, 2019,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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.243
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

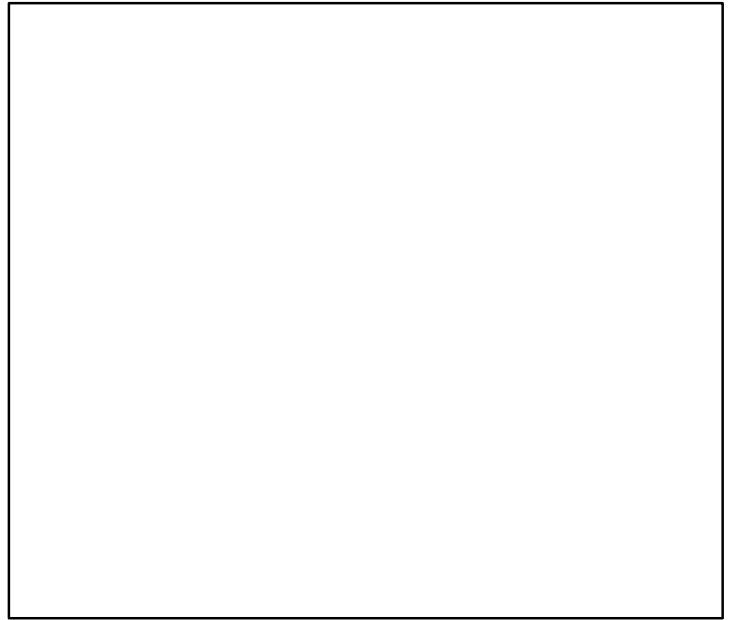
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2021	428	-	-
SSB	SSB-MT	2021	322	-	-
TN	-	-	-	-	-
R	R-E00	2021	6,630,300	-	-
F	F-1/yr	2021	0.5	-	-
ER	ER-calc-ratio	2021	0.191	-	-
TC	TC-MT	2021	82		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	2.056		
ER/ERmgt	-	-	-		

Surmullet Balearic Island [SMULLMEDGSA5]

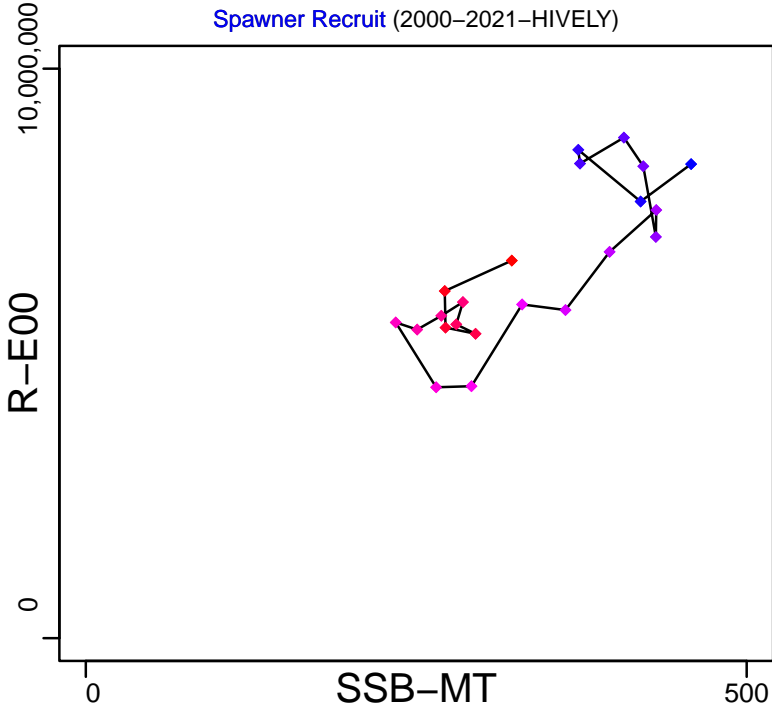
Kobe MSY*



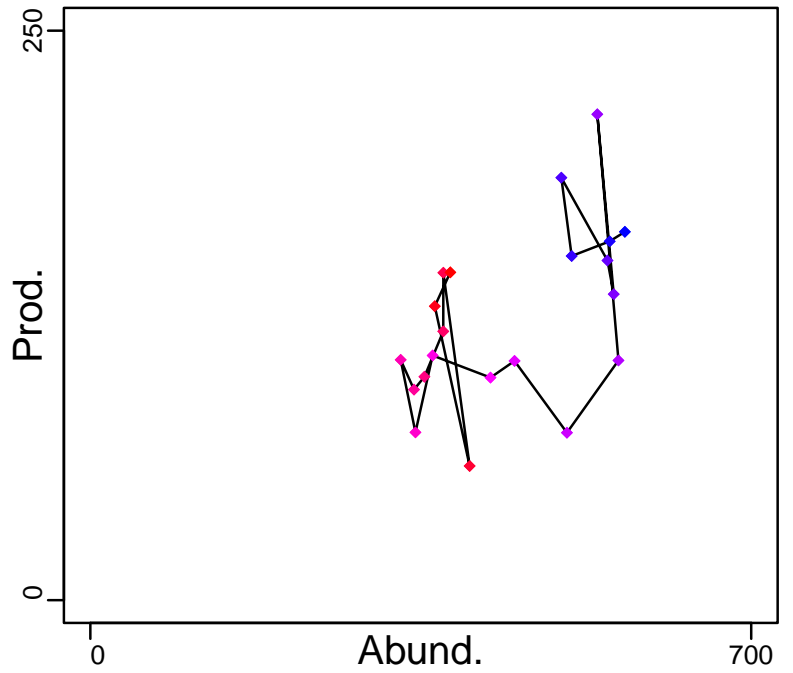
Kobe MGT*



Spawner Recruit (2000–2021–HIVELY)



Production (2000–2021–HIVELY)

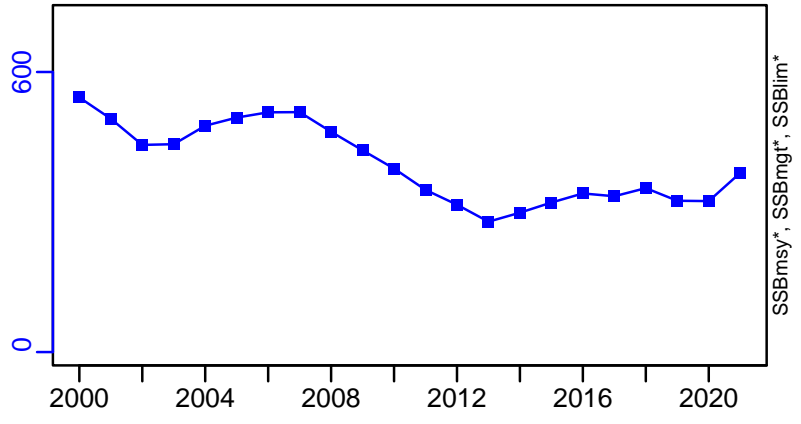
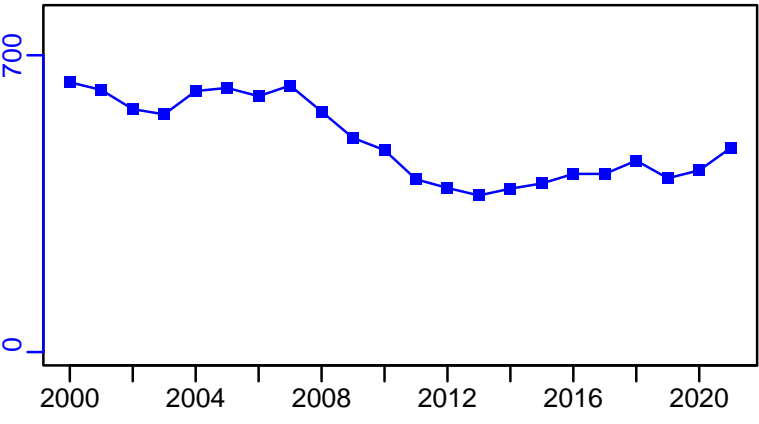


◆ Start Year ◆ End Year * No Data

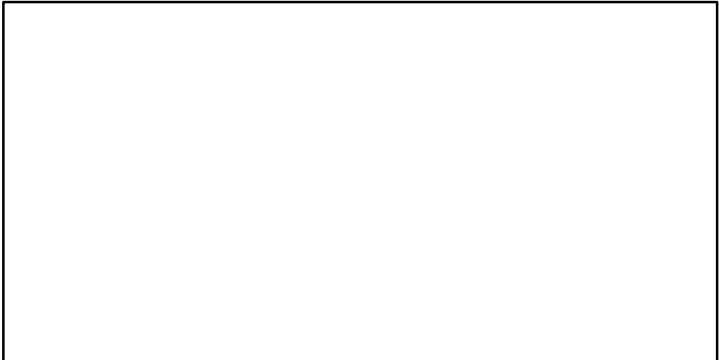
Surmullet Balearic Island [SMULLMEDGSA5]

TB-MT (2000-2021-HIVELY)

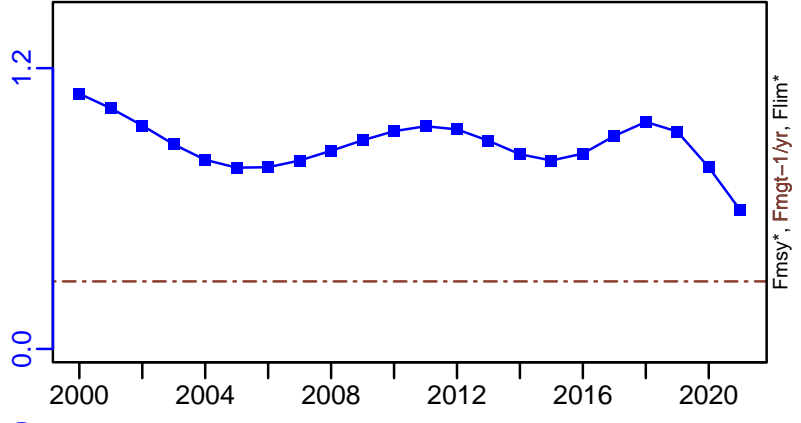
SSB-MT (2000-2021-HIVELY)



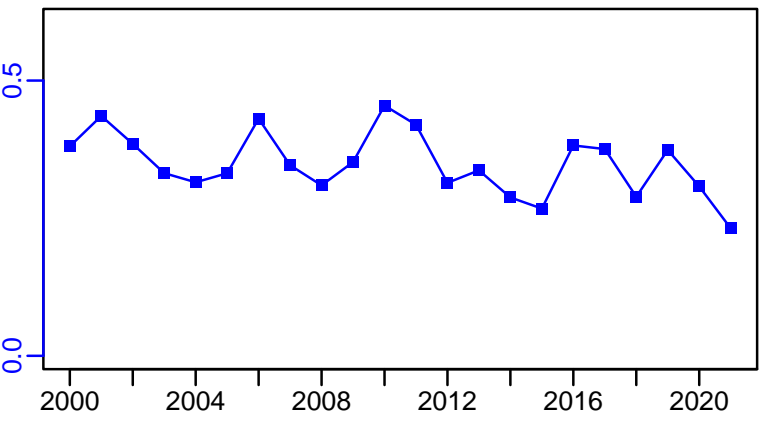
TN *



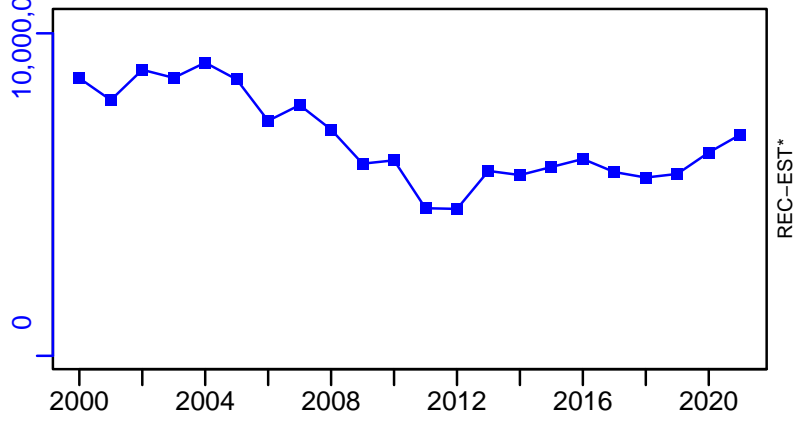
F-1/yr (2000-2021-HIVELY)



ER-calc-ratio (2000-2021-HIVELY)



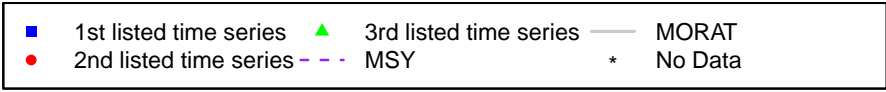
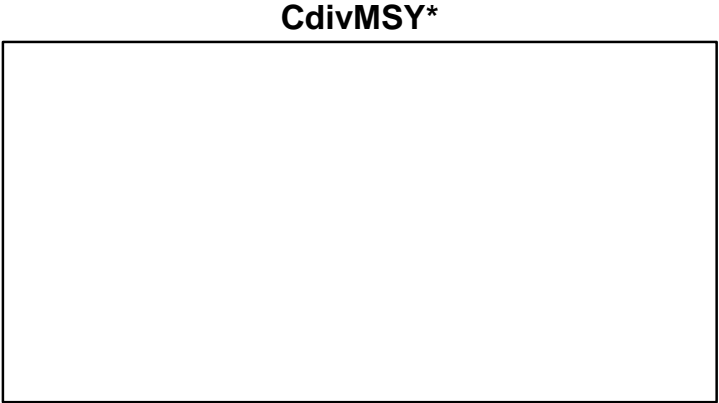
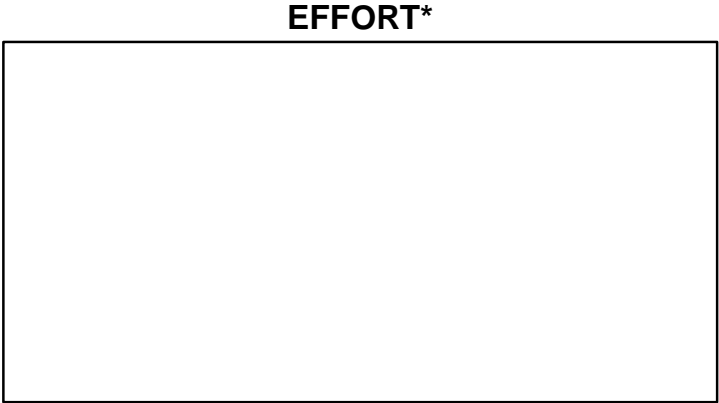
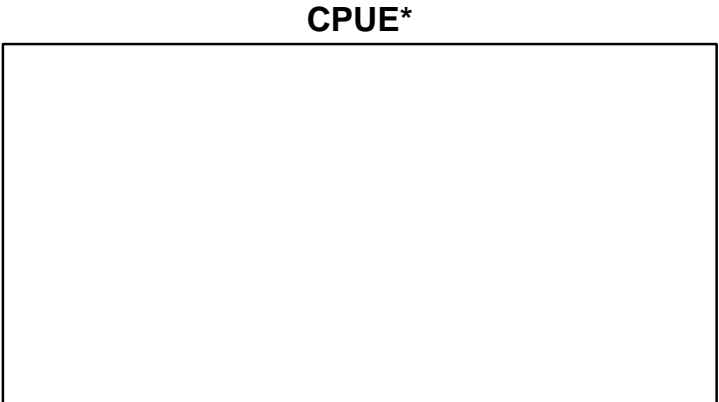
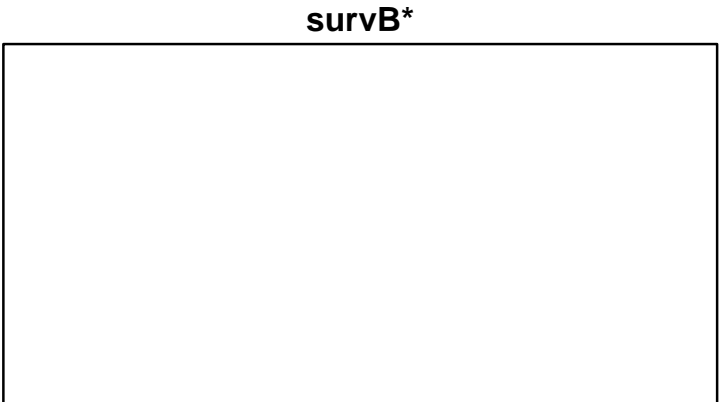
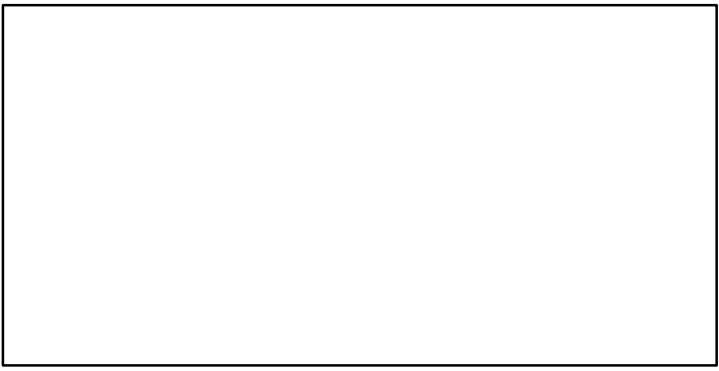
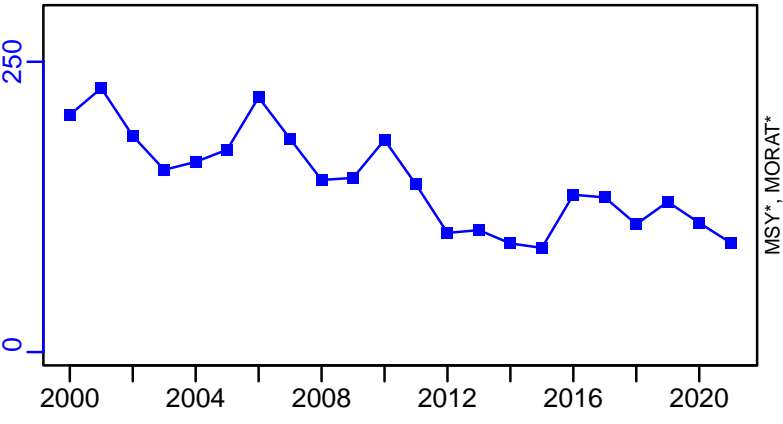
R-E00 (2000-2021-HIVELY)



Surmullet Balearic Island [SMULLMEDGSA5]

TC-MT, TL*, RecC* (2000-2021-HIVELY)

TAC*, Cpair*, Cadv*



Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

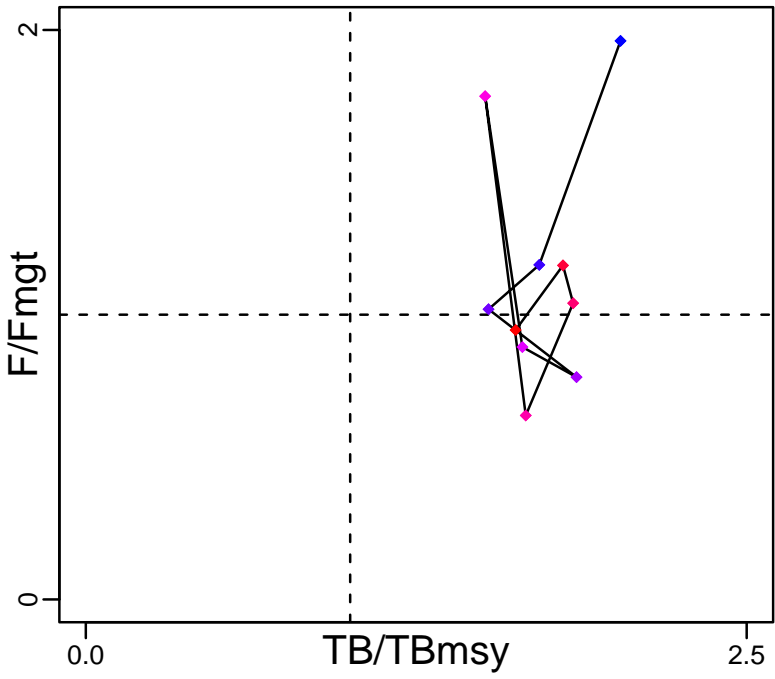
Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	STECF-SMULLMEDGSA9-2006-2015-OSIO
Area	Ligurian and North Tyrrhenian Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2015	0.52
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

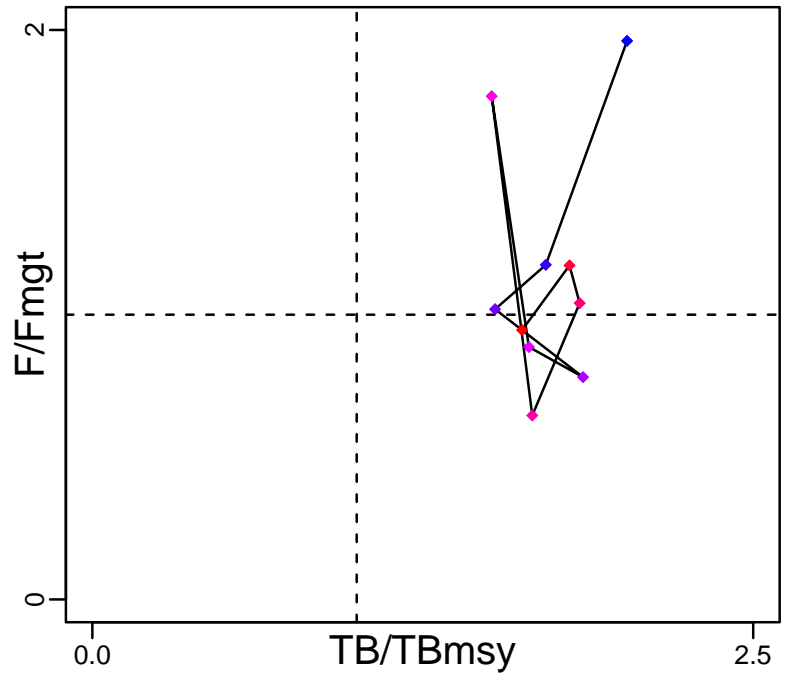
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1270	-	-
SSB	SSB-MT	2015	463	Both	-
TN	-	-	-	-	-
R	R-E00	2015	16,600,000	-	-
F	F-1/yr	2015	0.492	-	-
ER	ER-calc-ratio	2015	0.205	-	-
TC	TC-MT	2015	260		
TL	TL-MT	2015	260		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.946		
ER/ERmgt	-	-	-		

Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

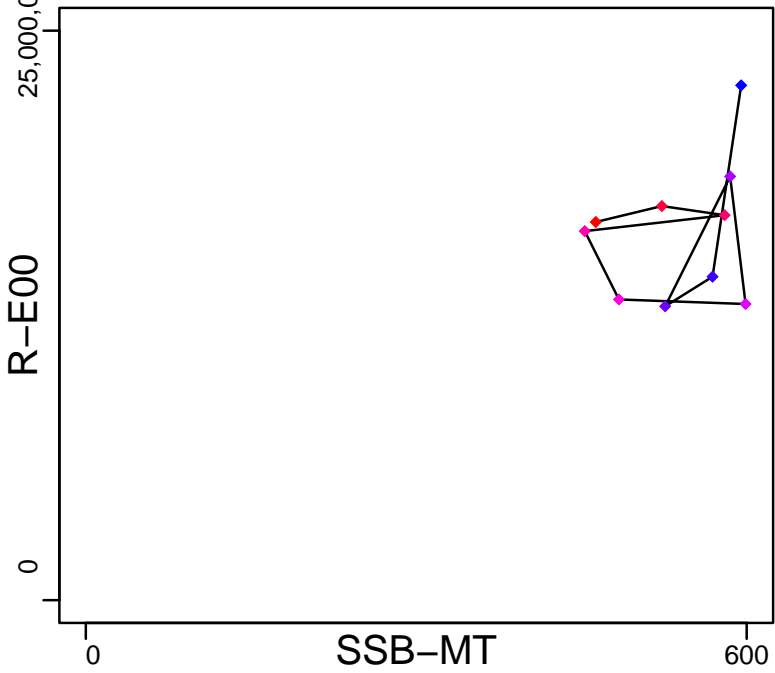
Kobe MSYpref (2006–2015–OSIO)



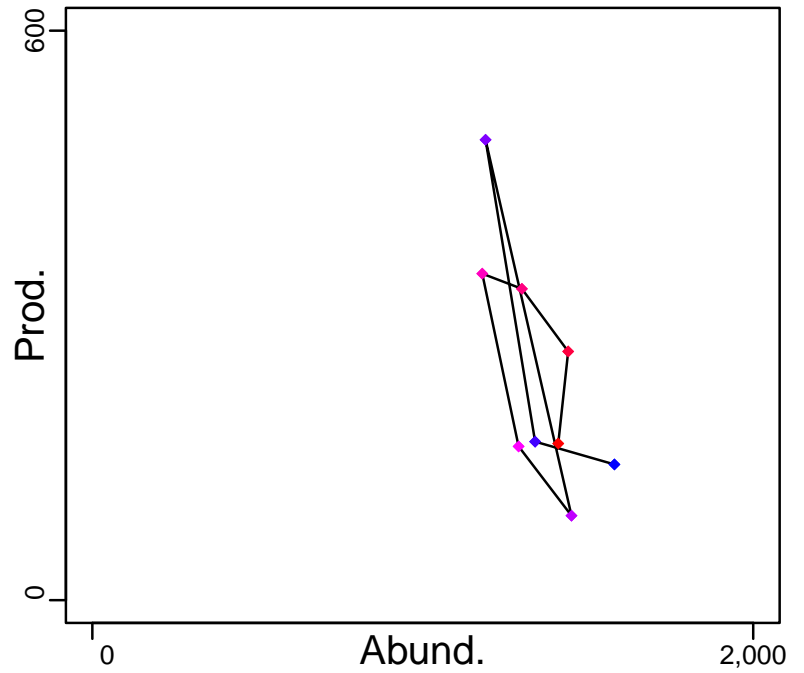
Kobe MGTpref (2006–2015–OSIO)



Spawner Recruit (2006–2015–OSIO)



Production (2006–2015–OSIO)

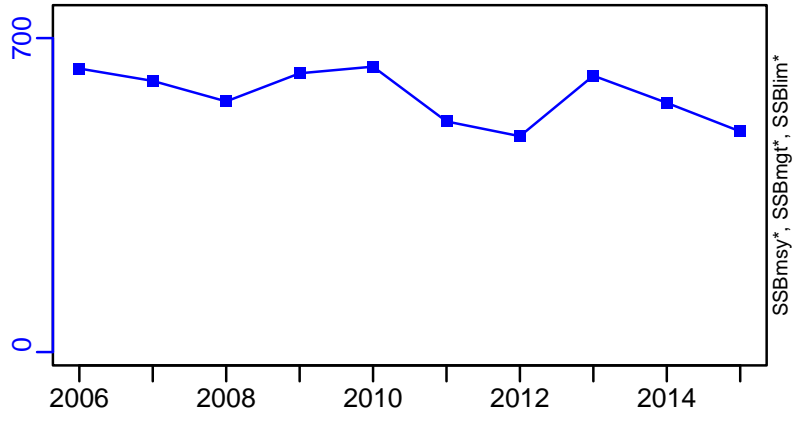
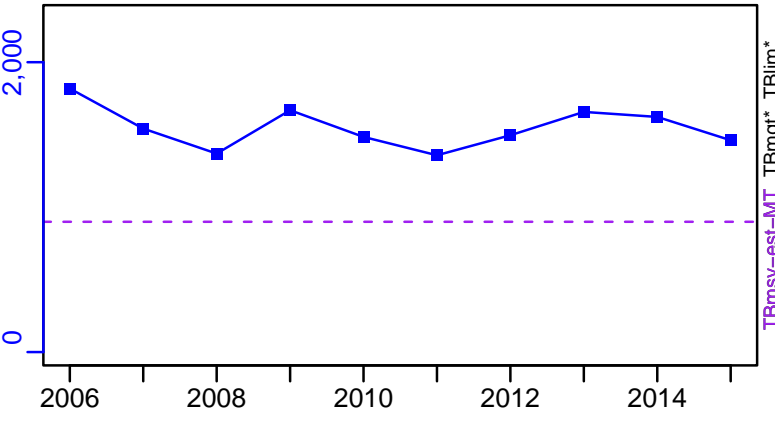


◆ Start Year ◆ End Year * No Data

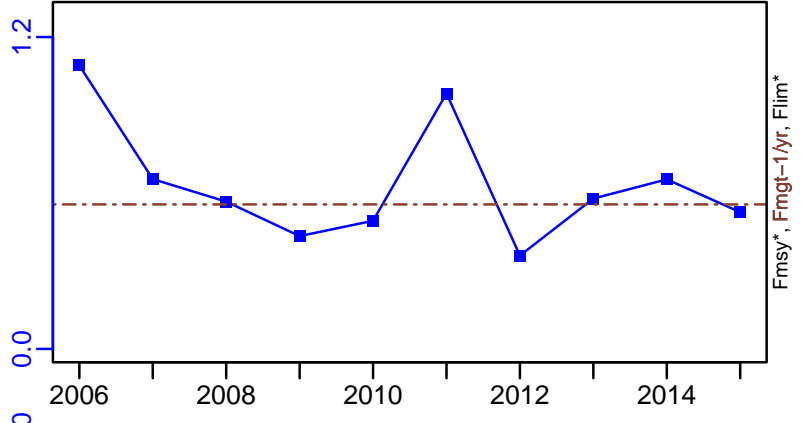
Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

TB-MT (2006-2015-OSIO)

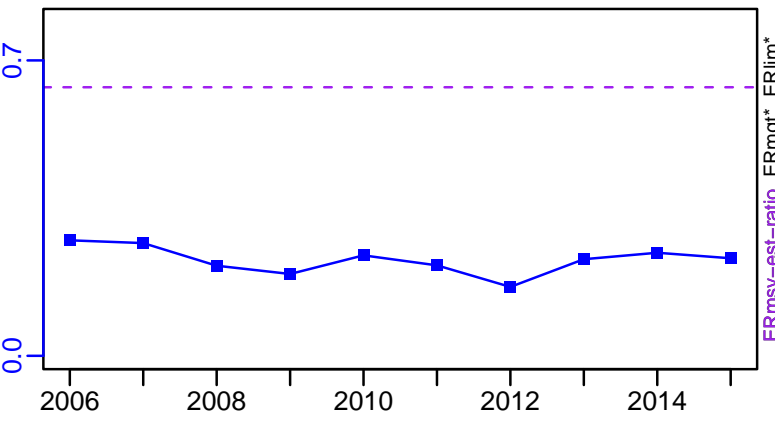
SSB-MT (2006-2015-OSIO)



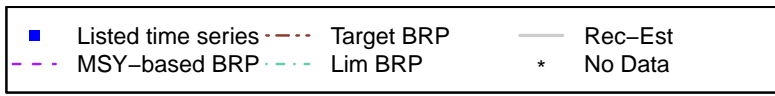
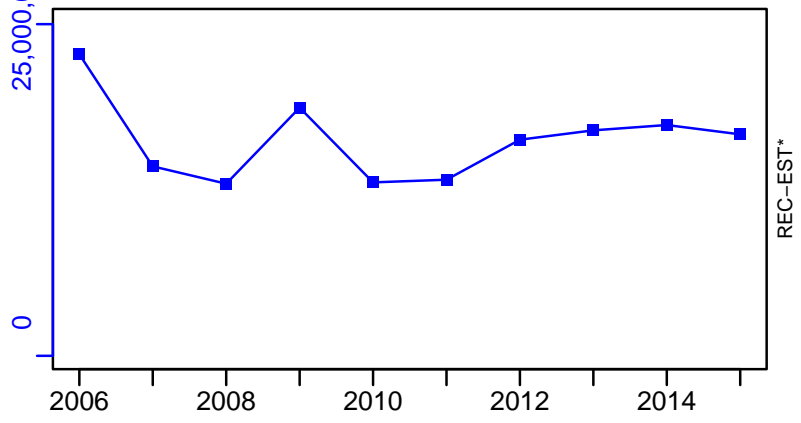
F-1/yr (2006-2015-OSIO)



ER-calc-ratio (2006-2015-OSIO)



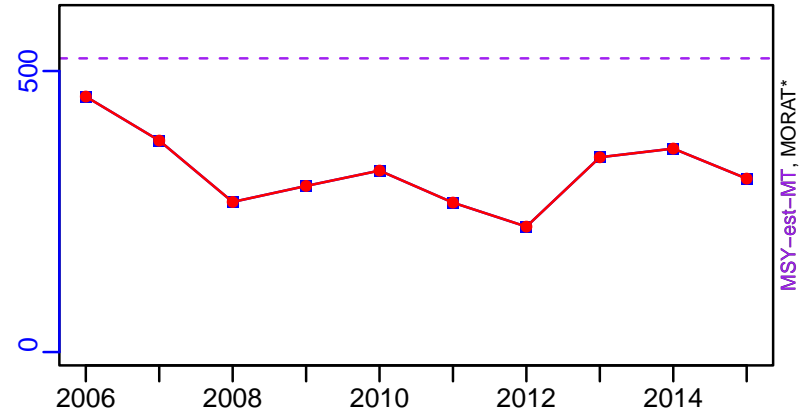
R-E00 (2006-2015-OSIO)



Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

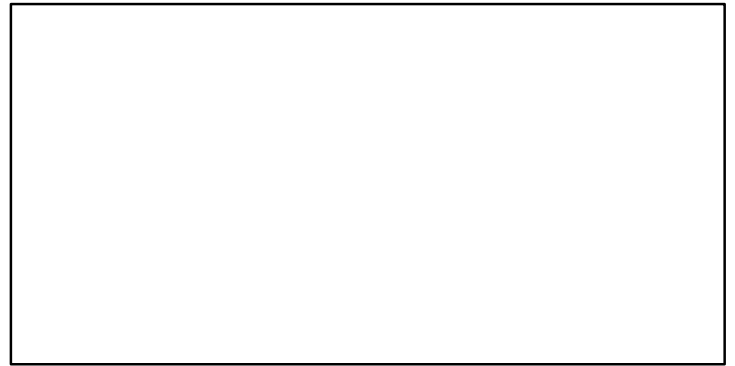
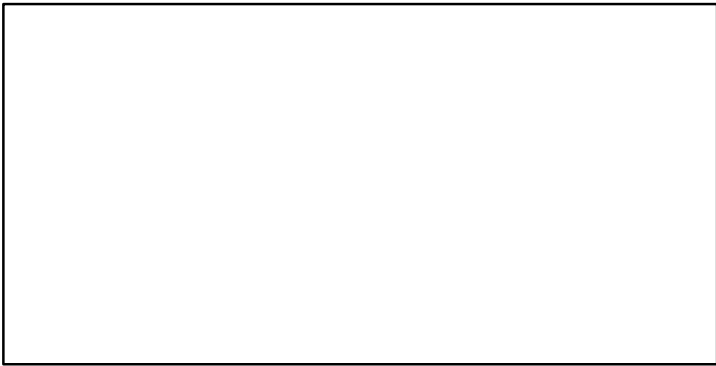
TC-MT, TL-MT, RecC* (2006-2015-OSIO)

TAC*, Cpair*, Cadv*



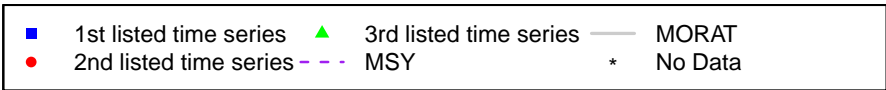
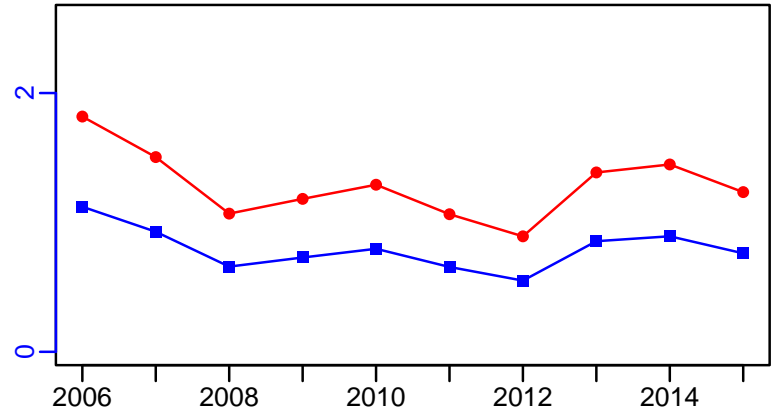
survB*

CPUE*



EFFORT*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006-2015-OSIO)



Snapper Gulf St. Vincent [SNAPSAUSGSV]

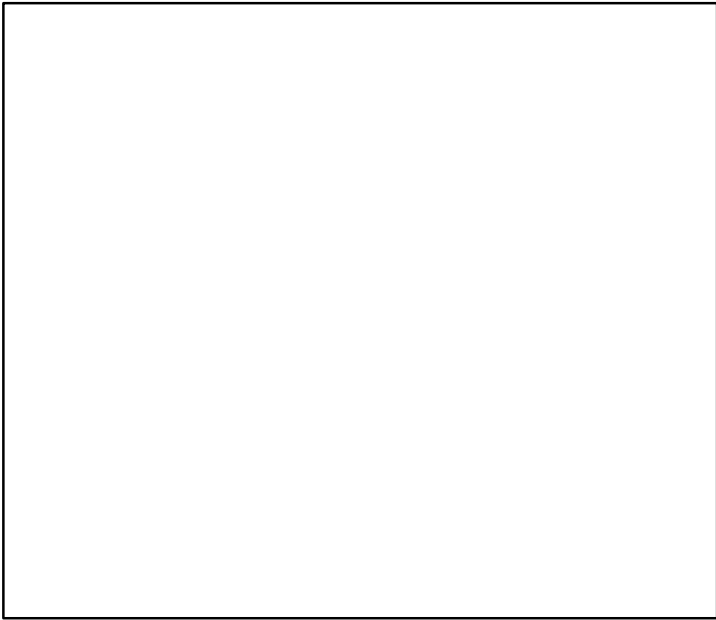
Metadata	
Scientific Name	Chrysophrys auratus
Current Assess ID	SARDI-SNAPSAUSGSV-1983-2022-HIVELY
Area	Gulf St. Vincent
Management Authority	South Australian Research and Development Institute
Assessor	South Australian Research and Development Institute
Asmts in RAM	2022

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

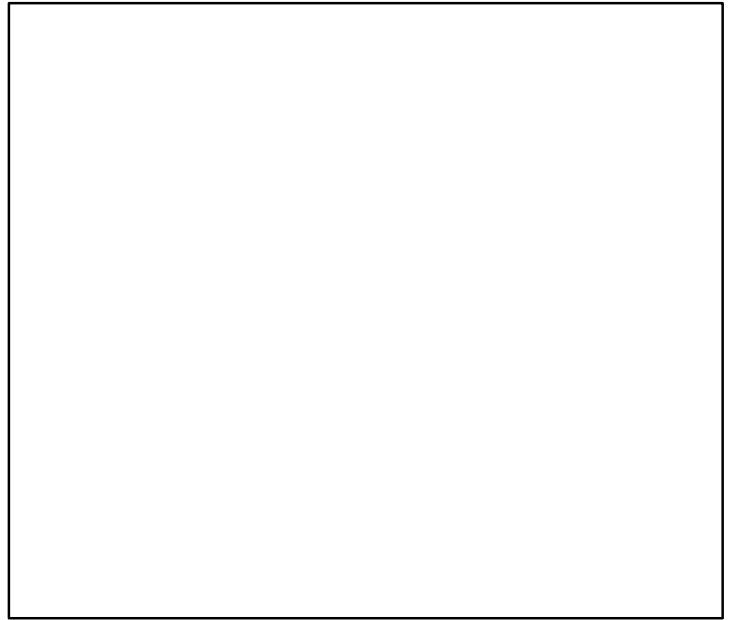
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	375	-	-
SSB	SSB-relative	2022	0.032	-	-
TN	-	-	-	-	-
R	R-E00	2022	13,045	-	-
F	-	-	-	-	-
ER	ER-ratio	2022	0.021	-	-
TC	TC-MT	2022	163		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt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

Snapper Gulf St. Vincent [SNAPSAUSGSV]

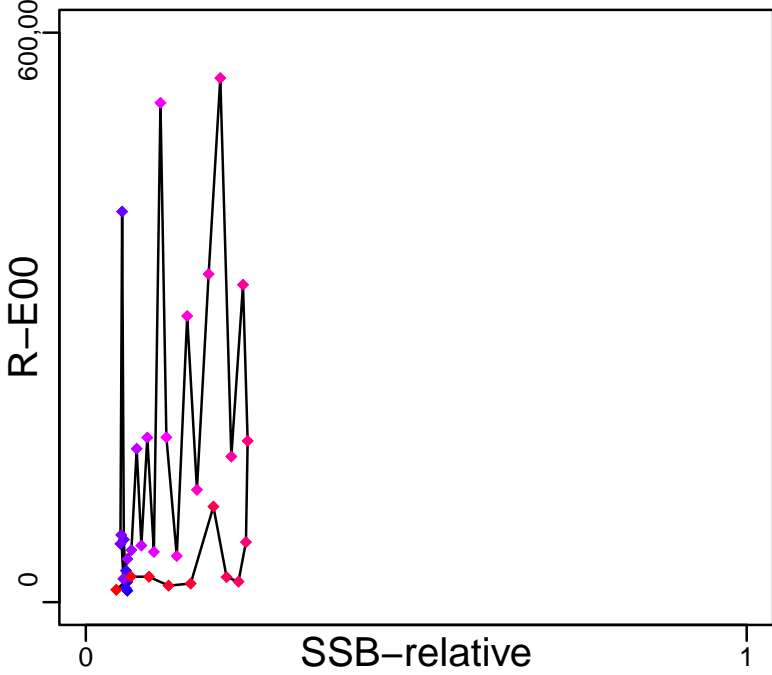
Kobe MSY*



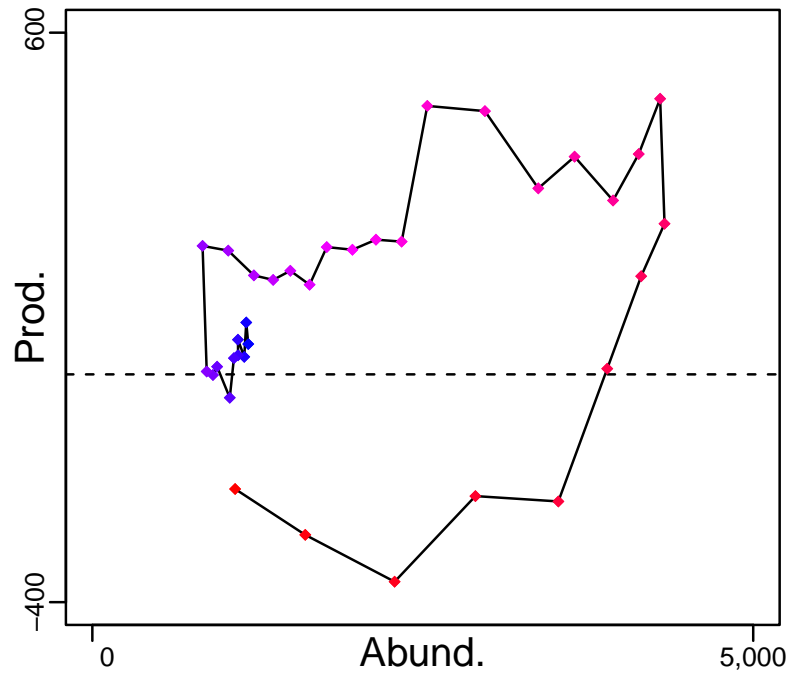
Kobe MGT*



Spawner Recruit (1983–2022–HIVELY)



Production (1983–2022–HIVELY)

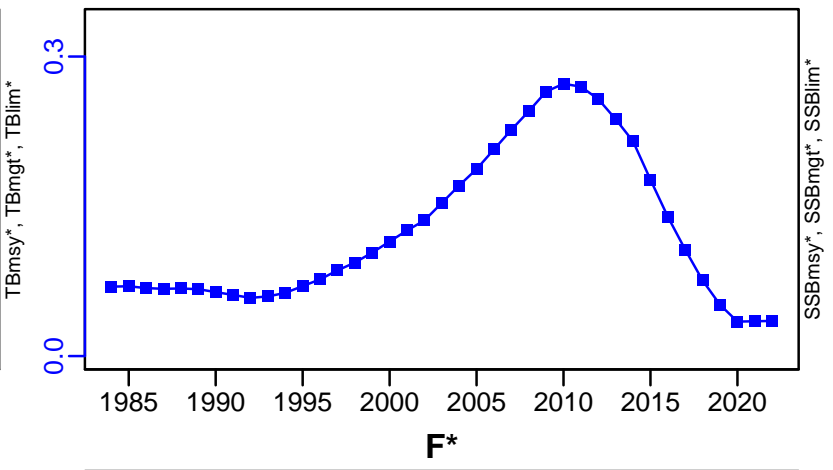
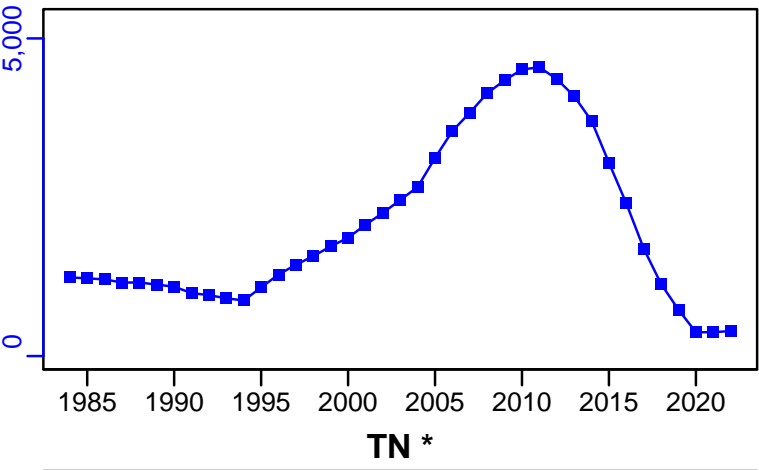


◆ Start Year ◆ End Year * No Data

Snapper Gulf St. Vincent [SNAPSAUSGSV]

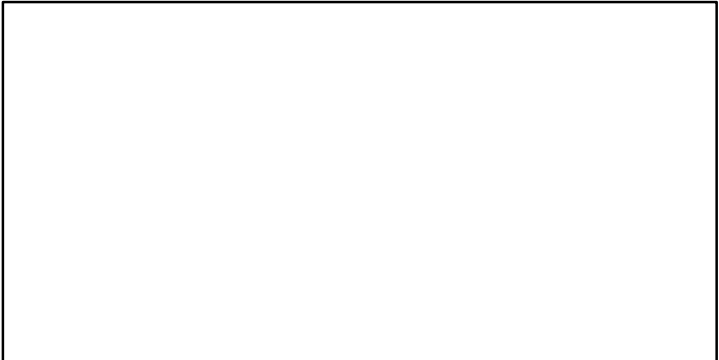
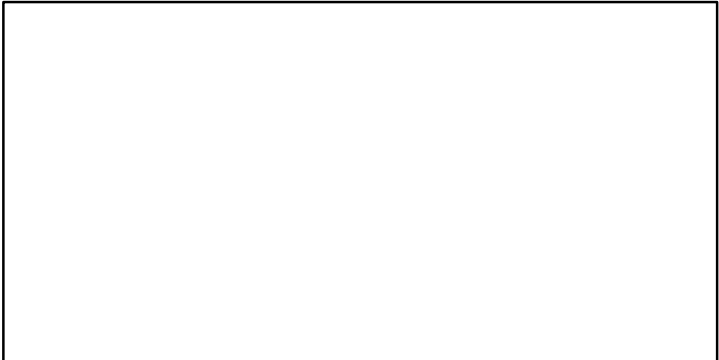
TB-MT (1983-2022-HIVELY)

SSB-relative (1983-2022-HIVELY)



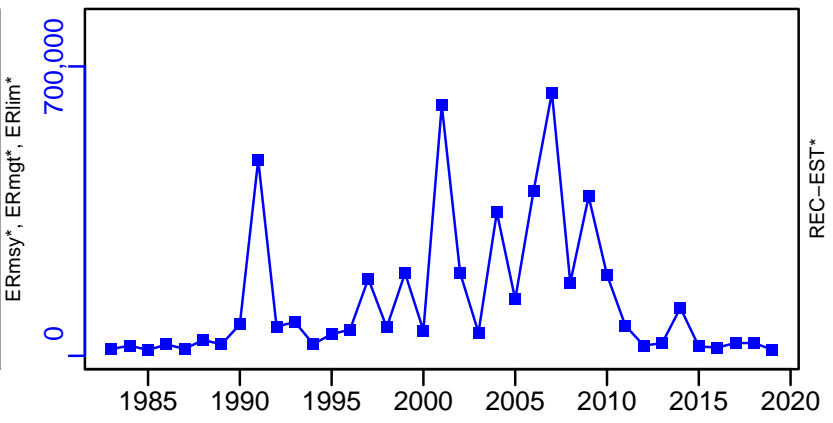
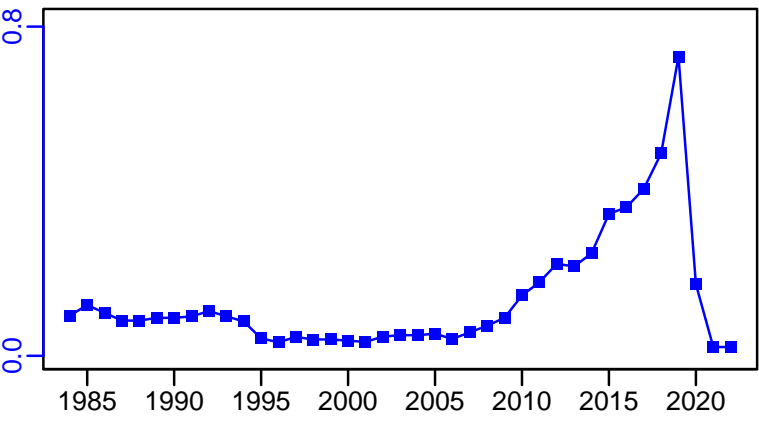
TN *

F*



ER-ratio (1983-2022-HIVELY)

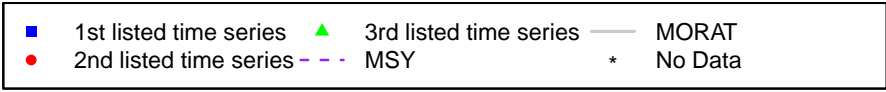
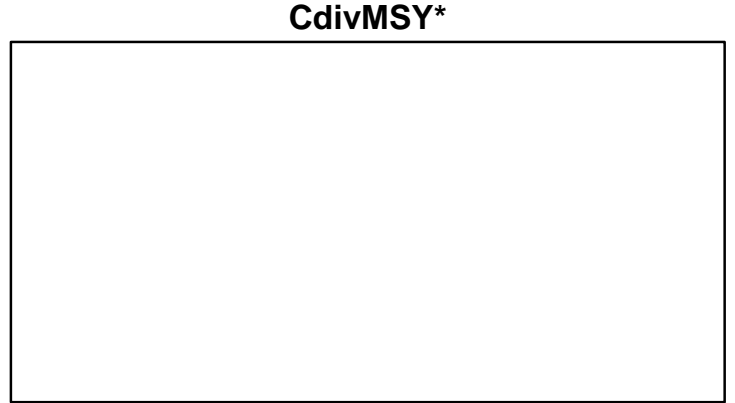
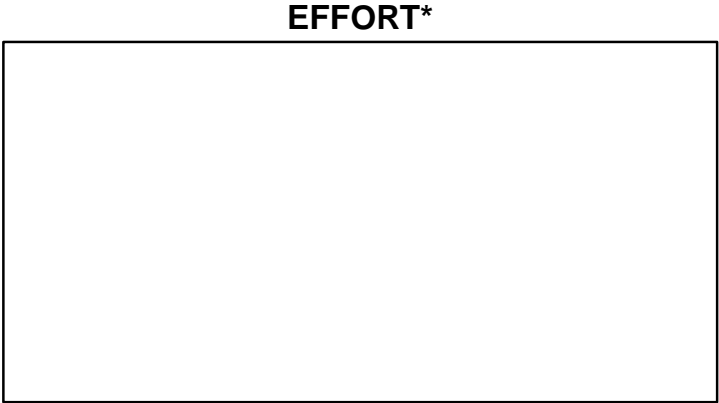
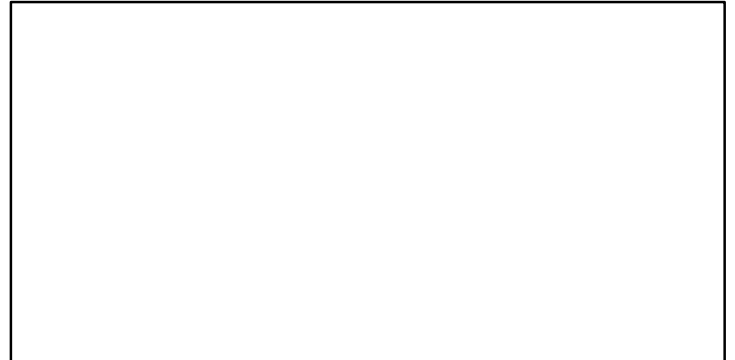
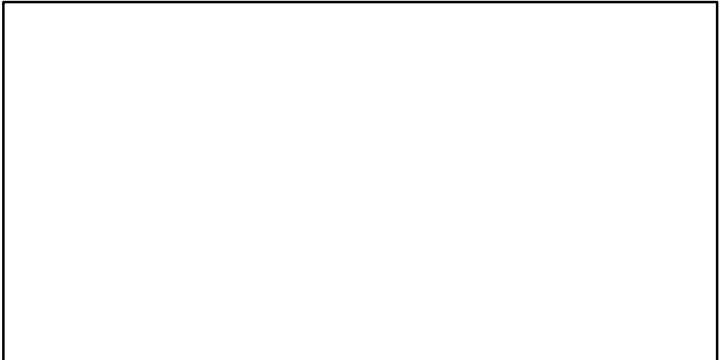
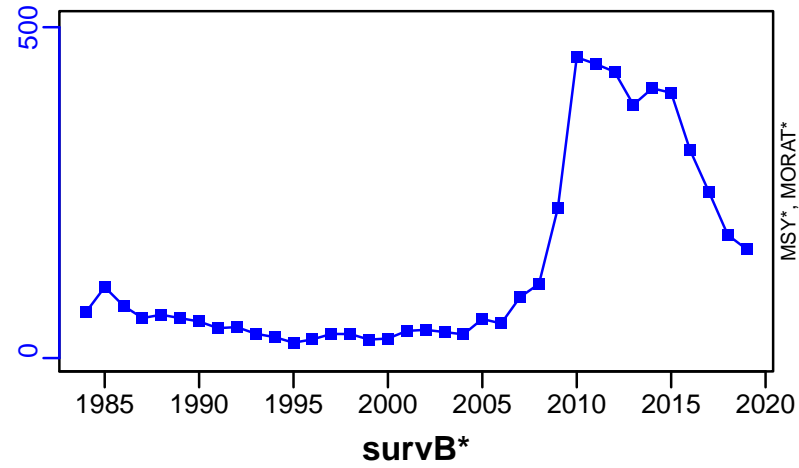
R-E00 (1983-2022-HIVELY)



Snapper Gulf St. Vincent [SNAPSAUSGSV]

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

TAC*, Cpair*, Cadv*



Snapper South-East Region [SNAPSAUSSER]

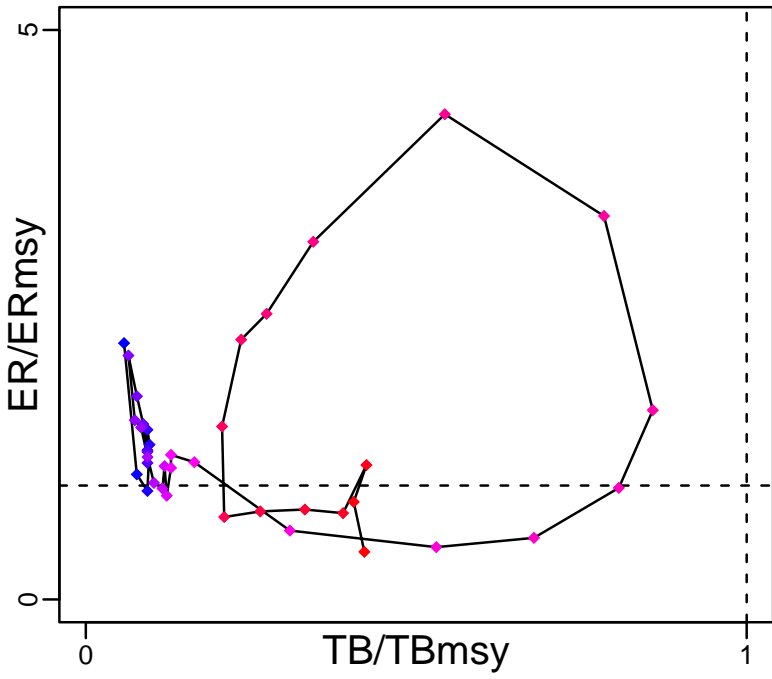
Metadata	
Scientific Name	Chrysophrys auratus
Current Assess ID	SARDI-SNAPSAUSSER-1983-2022-HIVELY
Area	South-East Region
Management Authority	South Australian Research and Development Institute
Assessor	South Australian Research and Development Institute
Asmts in RAM	2022

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

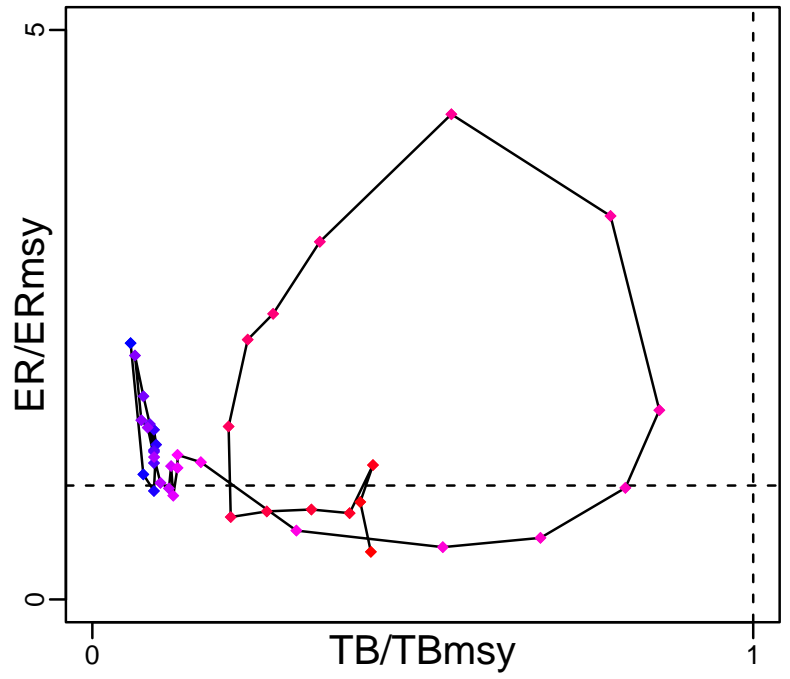
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	354	-	-
SSB	SSB-relative	2022	0.066	-	-
TN	-	-	-	-	-
R	R-E00	2022	14,339	-	-
F	-	-	-	-	-
ER	ER-ratio	2022	0.055	-	-
TC	TC-MT	2022	33		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt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

Snapper South-East Region [SNAPSAUSSER]

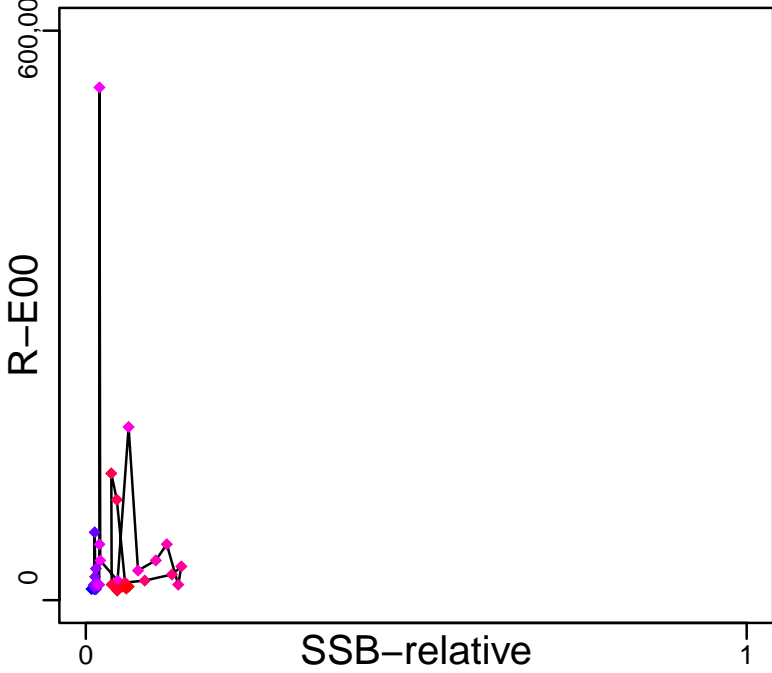
Kobe MSYpref (1983–2022–HIVELY)



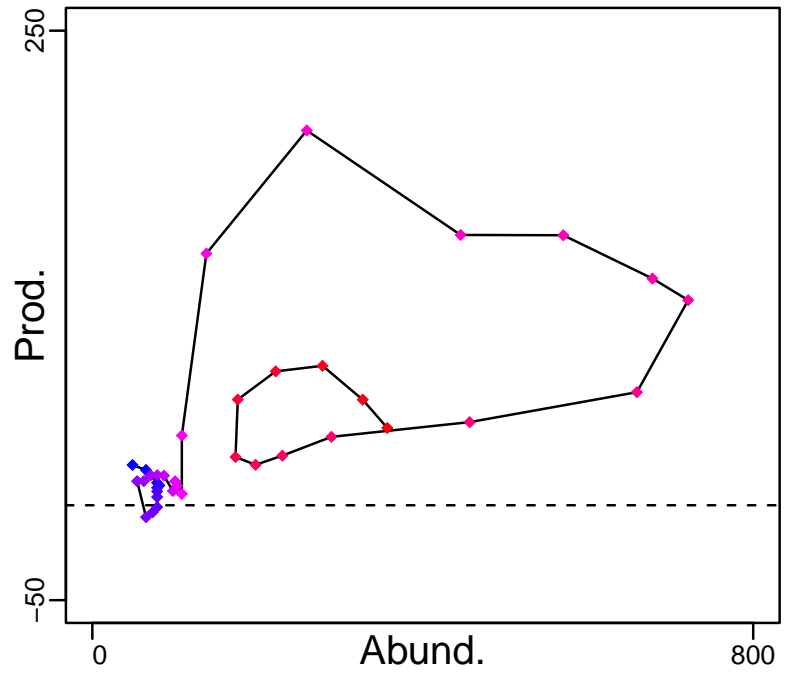
Kobe MGTpref (1983–2022–HIVELY)



Spawner Recruit (1983–2022–HIVELY)



Production (1983–2022–HIVELY)

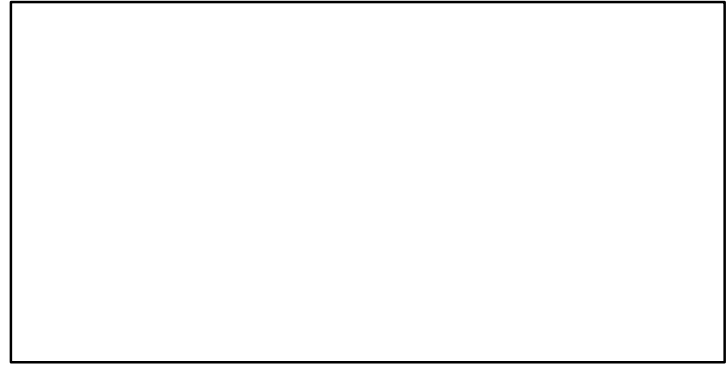
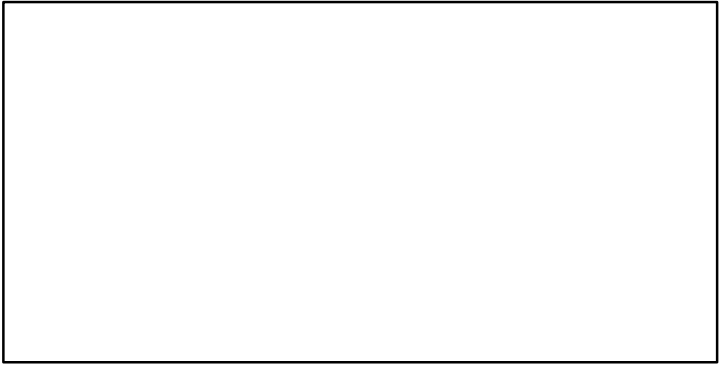
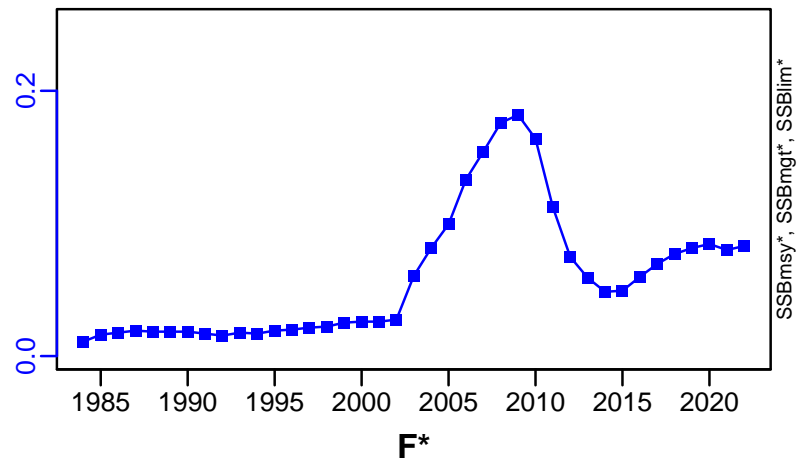
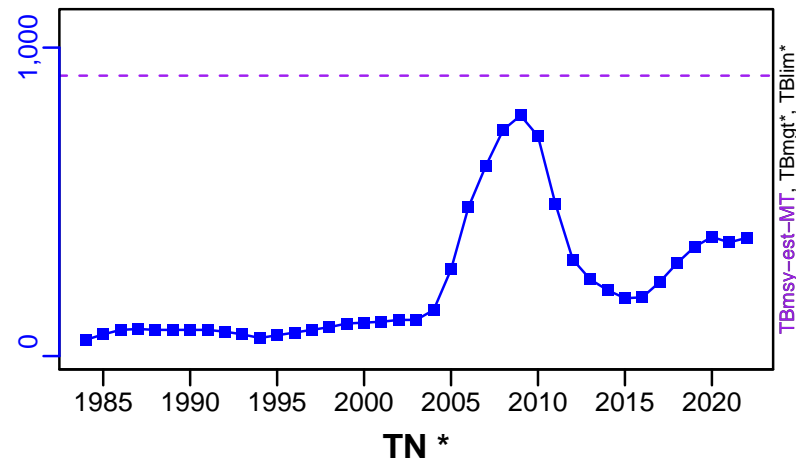


◆ Start Year ◆ End Year * No Data

Snapper South-East Region [SNAPSAUSSER]

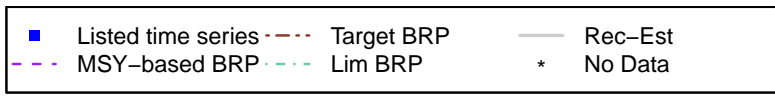
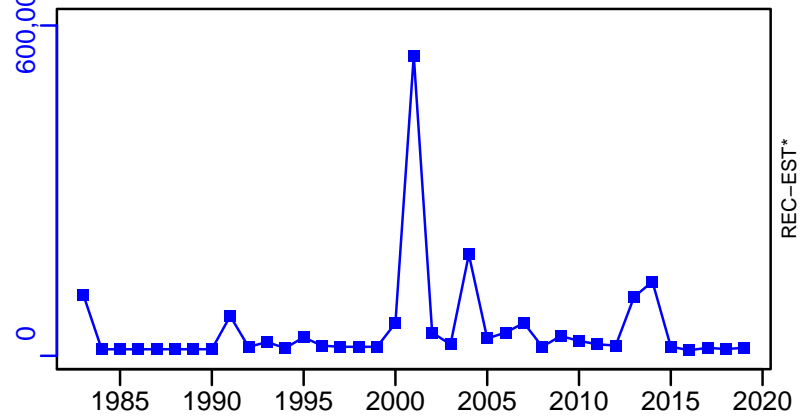
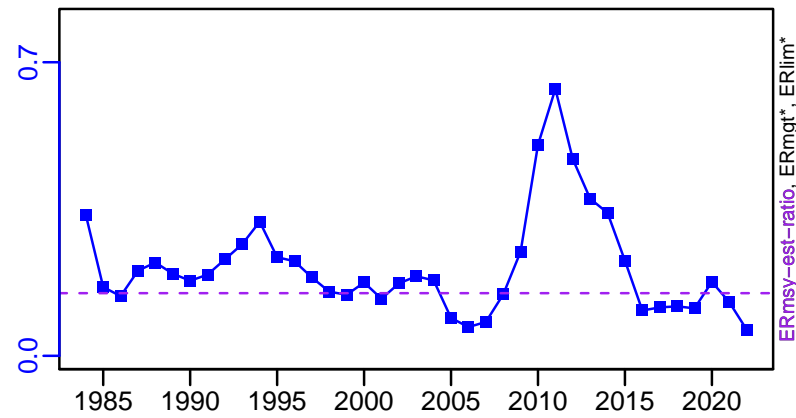
TB-MT (1983-2022-HIVELY)

SSB-relative (1983-2022-HIVELY)



ER-ratio (1983-2022-HIVELY)

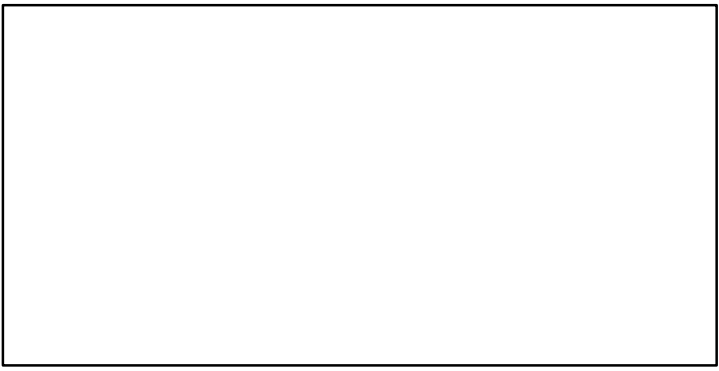
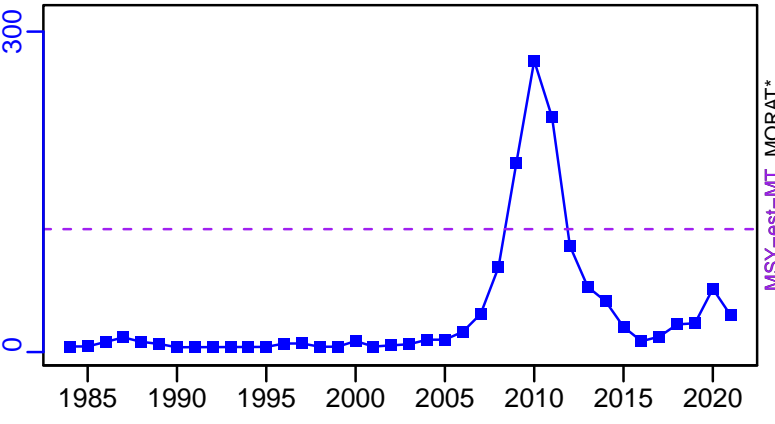
R-E00 (1983-2022-HIVELY)



Snapper South-East Region [SNAPSAUSSER]

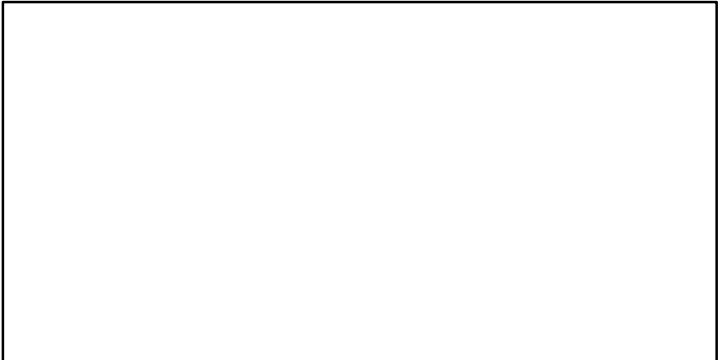
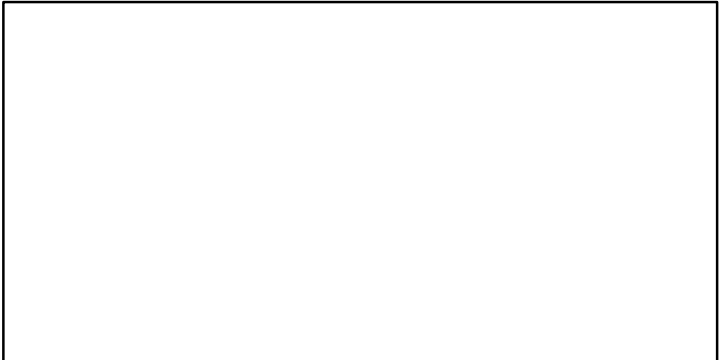
TC-MT, TL*, RecC* (1983-2022-HIVELY)

TAC*, Cpair*, Cadv*



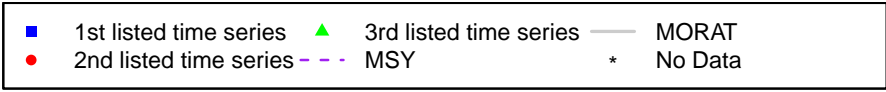
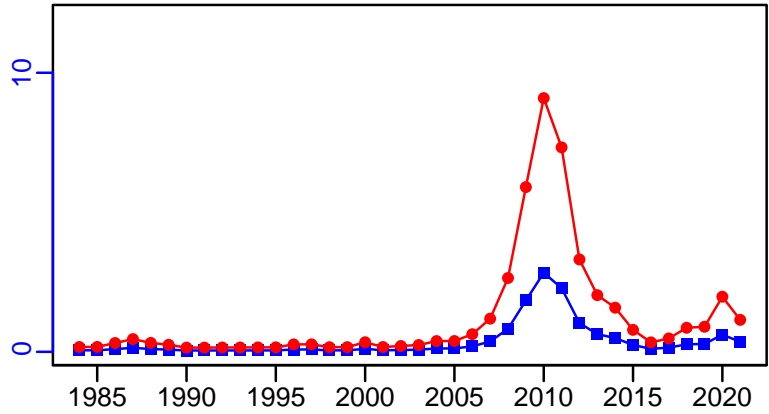
survB*

CPUE*



EFFORT*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (1983-2022-HIVELY)



Snapper Spencer Gulf and West Coast [SNAPSAUSSGWC]

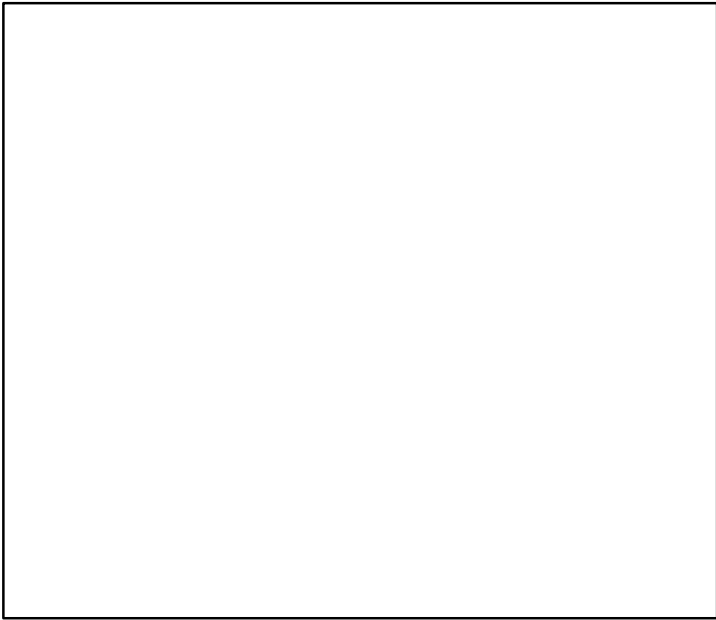
Metadata	
Scientific Name	Chrysophrys auratus
Current Assess ID	SARDI-SNAPSAUSSGWC-1983-2022-HIVELY
Area	Spencer Gulf and West Coast
Management Authority	South Australian Research and Development Institute
Assessor	South Australian Research and Development Institute
Asmts in RAM	2022

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

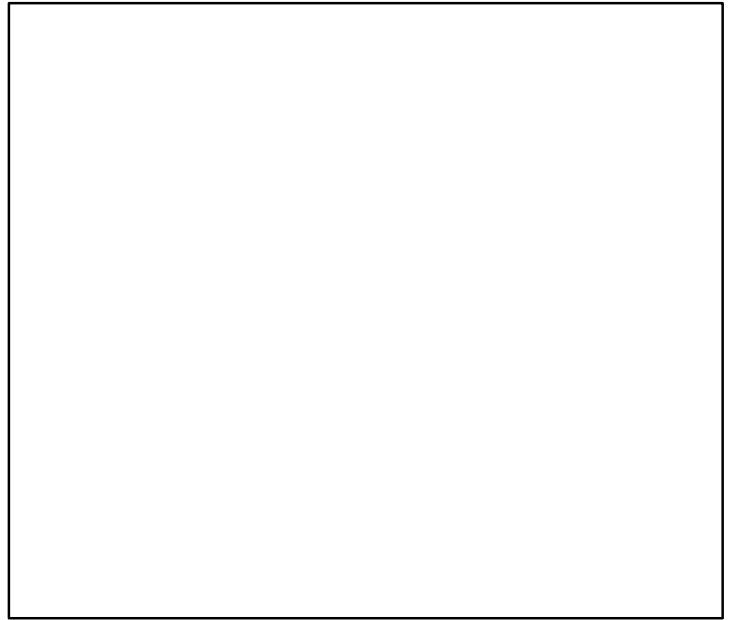
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	543	-	-
SSB	SSB-relative	2022	0.021	-	-
TN	-	-	-	-	-
R	R-E00	2022	56,888	-	-
F	-	-	-	-	-
ER	ER-ratio	2022	0.02	-	-
TC	TC-MT	2022	47		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt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

Snapper Spencer Gulf and West Coast [SNAPSAUSSGWC]

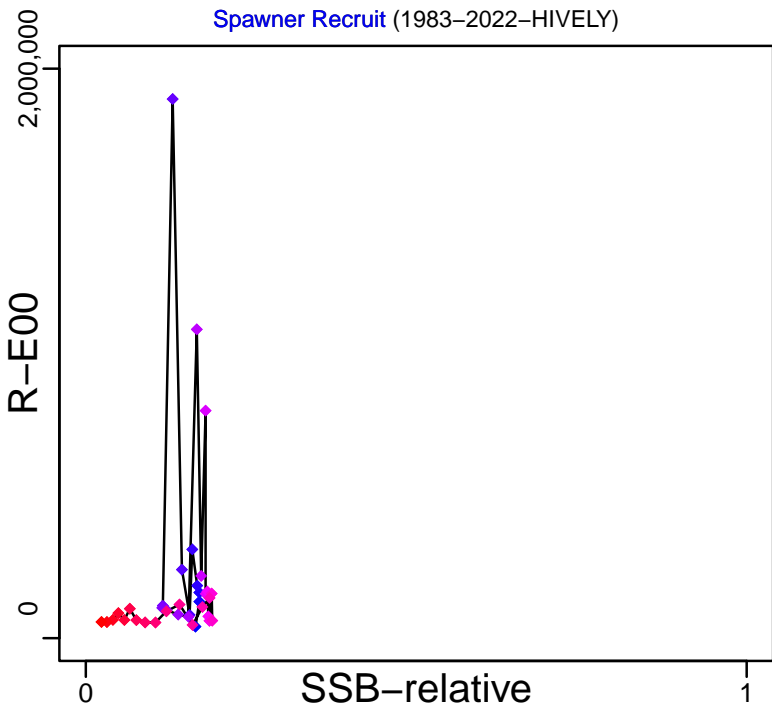
Kobe MSY*



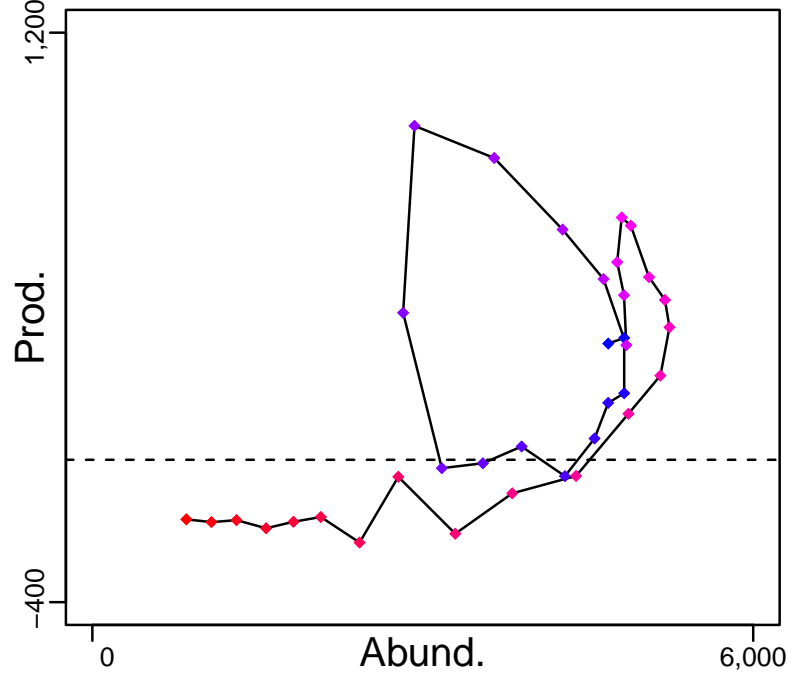
Kobe MGT*



Spawner Recruit (1983–2022–HIVELY)



Production (1983–2022–HIVELY)

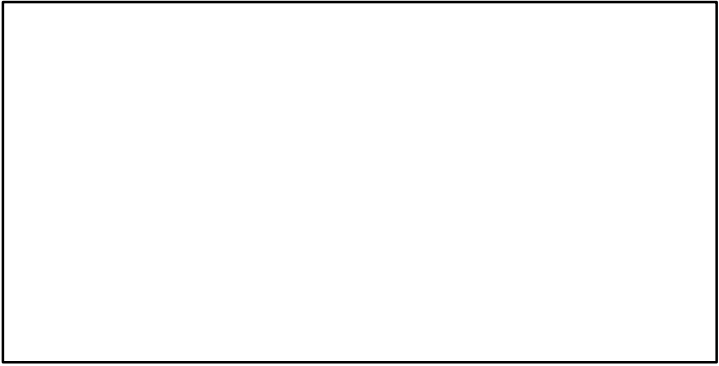
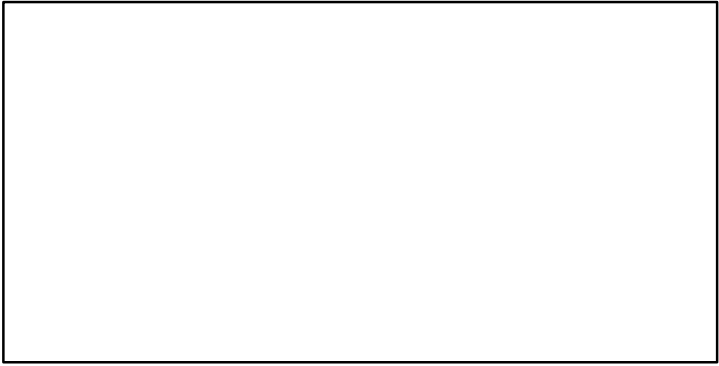
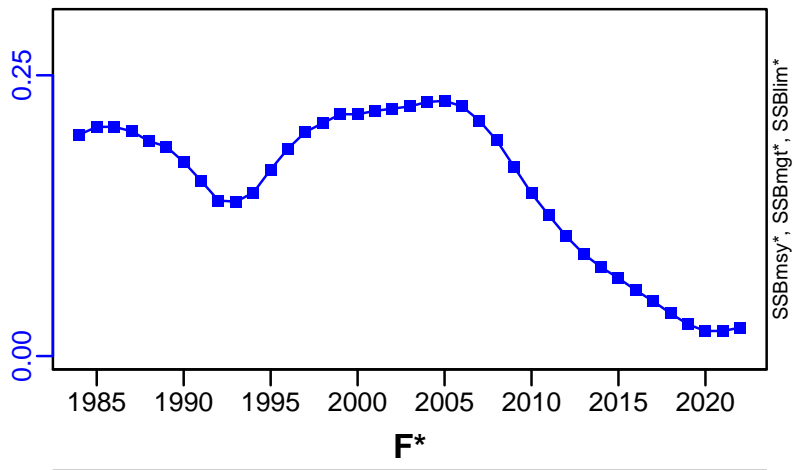
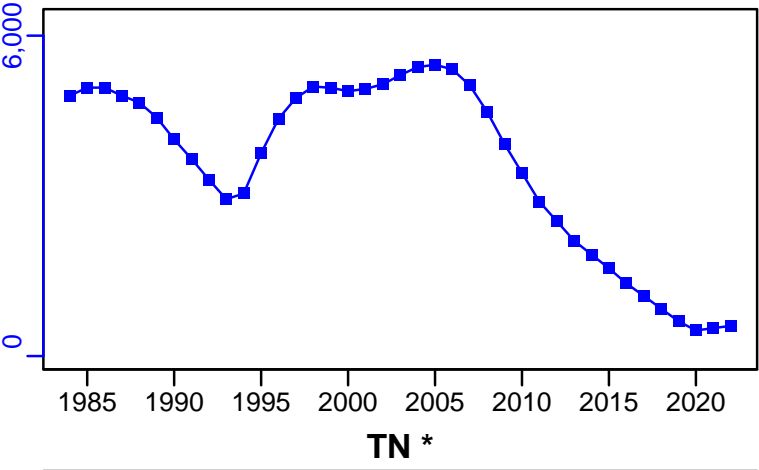


◆ Start Year ◆ End Year * No Data

Snapper Spencer Gulf and West Coast [SNAPSAUSSGWC]

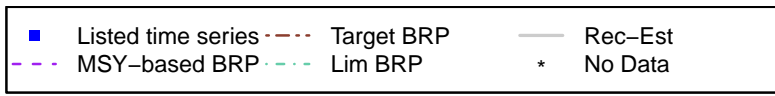
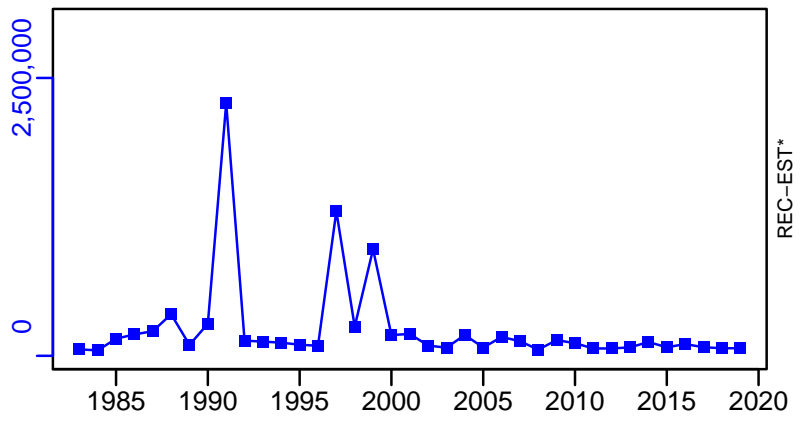
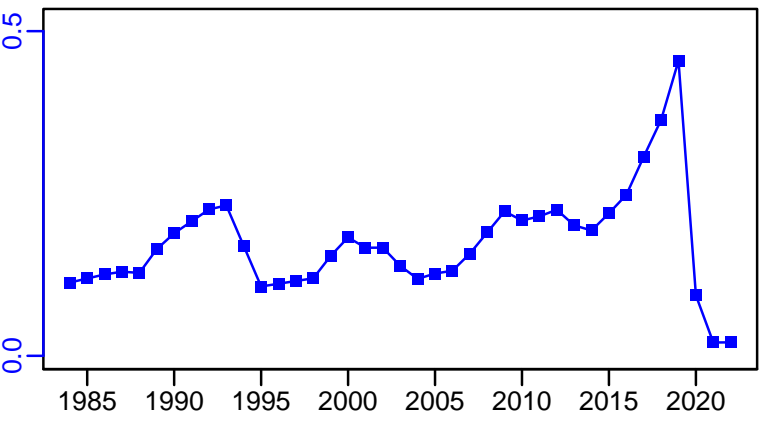
TB-MT (1983-2022-HIVELY)

SSB-relative (1983-2022-HIVELY)



ER-ratio (1983-2022-HIVELY)

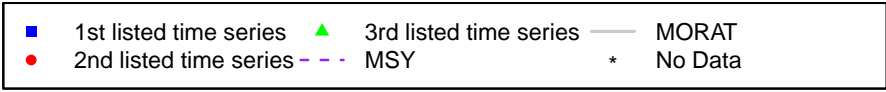
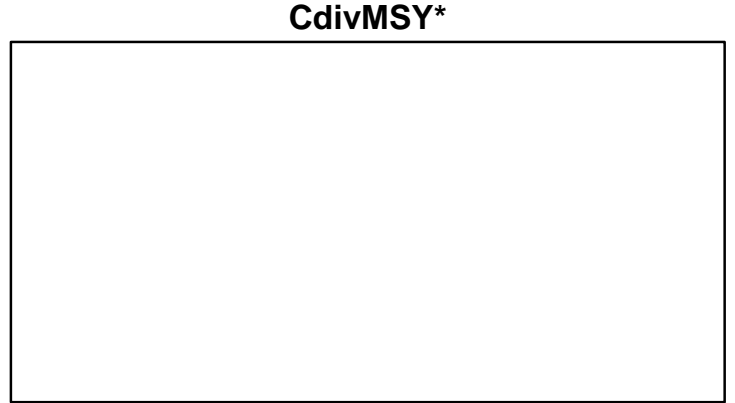
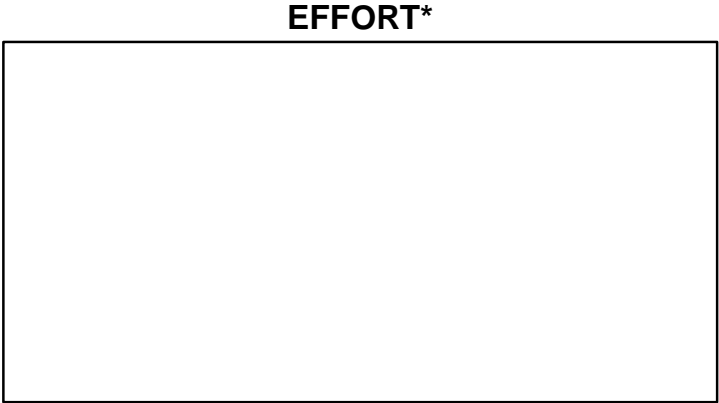
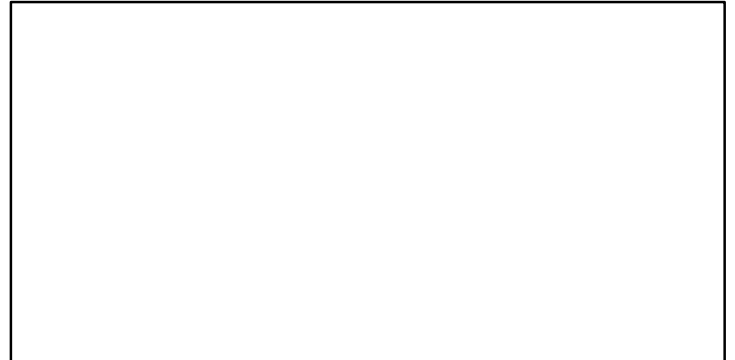
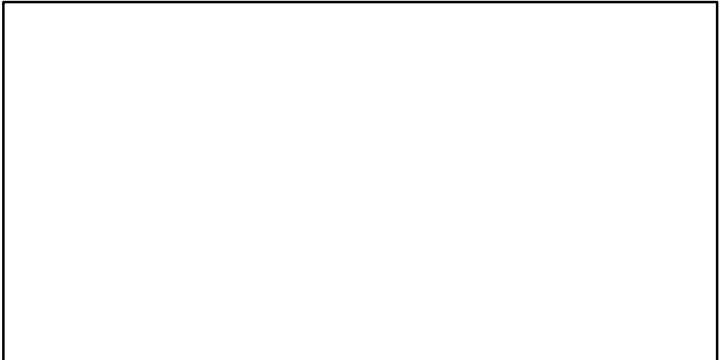
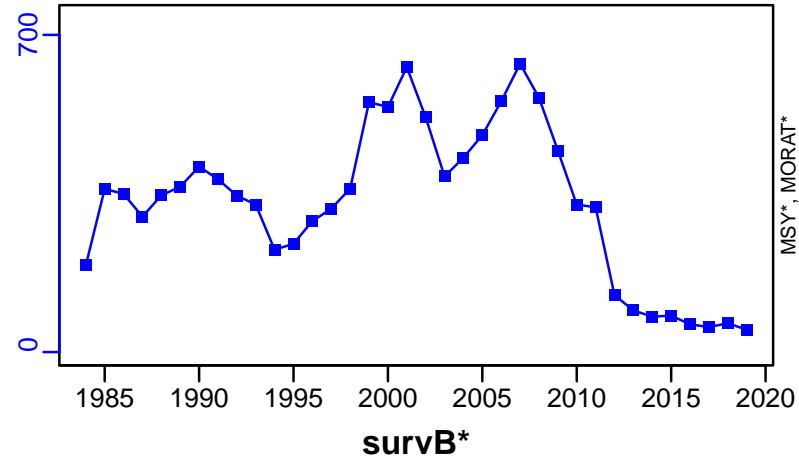
R-E00 (1983-2022-HIVELY)



Snapper Spencer Gulf and West Coast [SNAPSAUSSGWC]

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

TAC*, Cpair*, Cadv*



Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

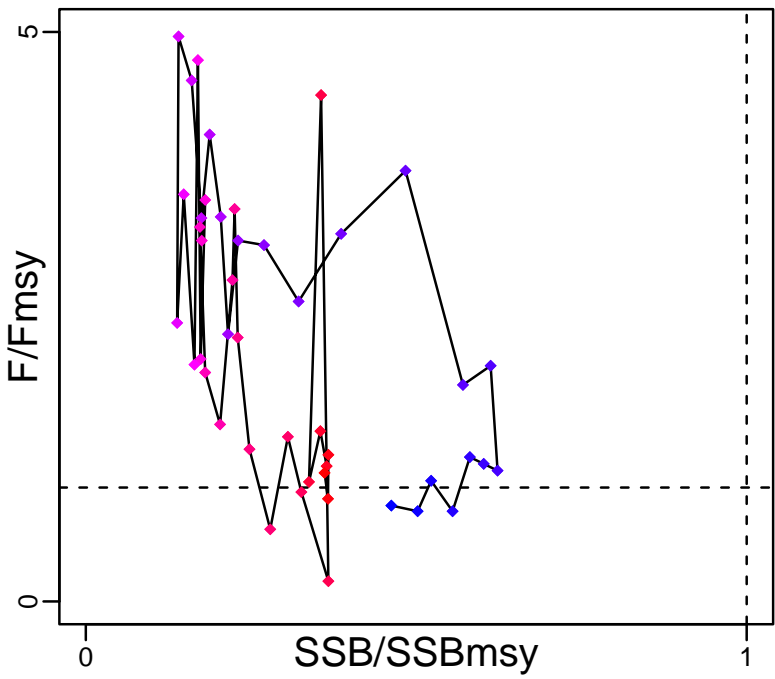
Metadata	
Scientific Name	Epinephelus niveatus
Current Assess ID	SEFSC-SNOWGROUPSATLC-1974-2018-SISIMP2021-2
Area	Southern Atlantic coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2013, 2018

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

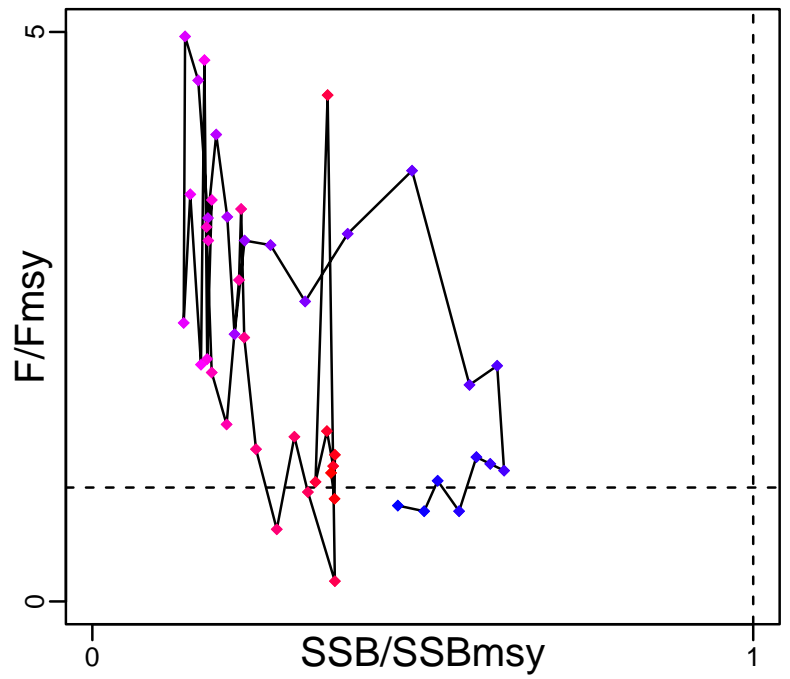
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	1200	-	-
SSB	SSB-MT	2018	690	-	-
TN	-	-	-	-	-
R	R-E00	2018	197,000	-	1
F	F-1/yr	2018	0.114	-	-
ER	ER-calc-ratio	2013	0.097	-	-
TC	TC-MT	2018	105		
TL	TL-MT	2013	110		
TB/TBmsy	TB-MT/TBmsy-MT	2013	0.574		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018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

Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

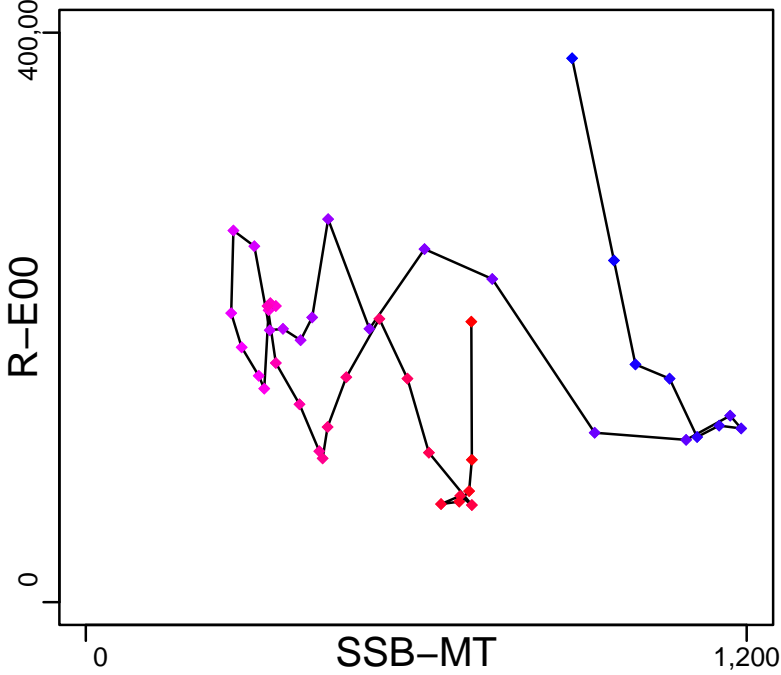
Kobe MSYpref (1974–2018–SISIMP2021–2)



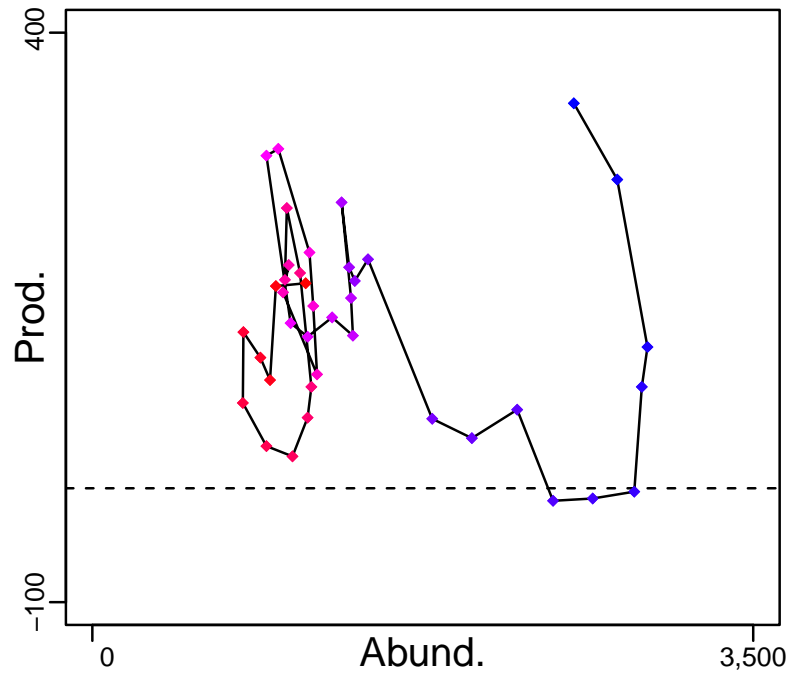
Kobe MGTpref (1974–2018–SISIMP2021–2)



Spawner Recruit (1974–2018–SISIMP2021–2)



Production (1974–2018–SISIMP2021–2)

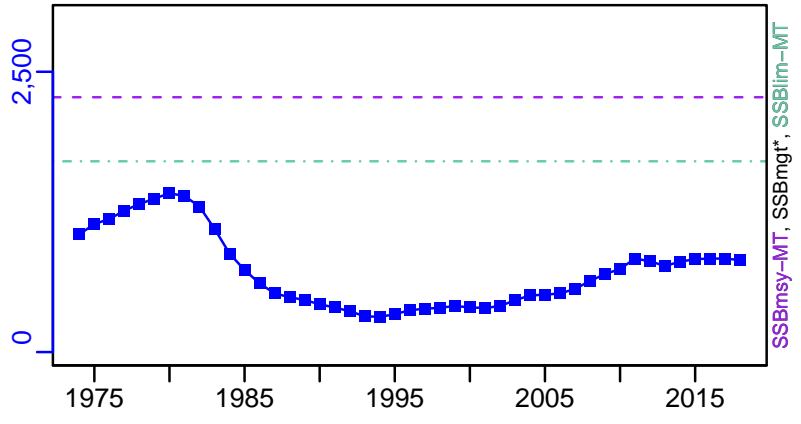
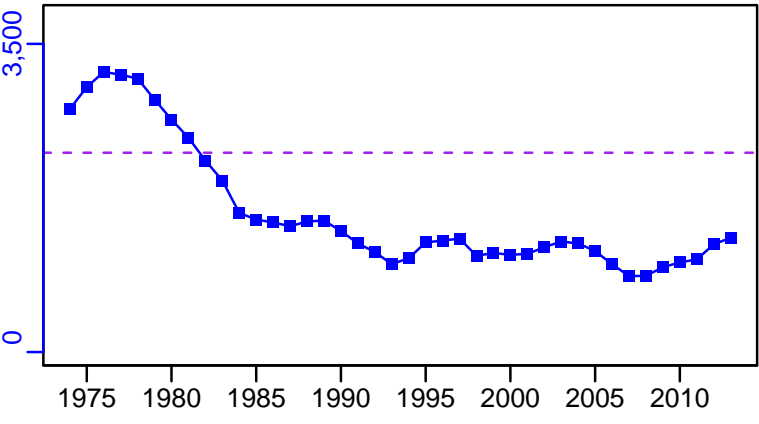


◆ Start Year ◆ End Year * No Data

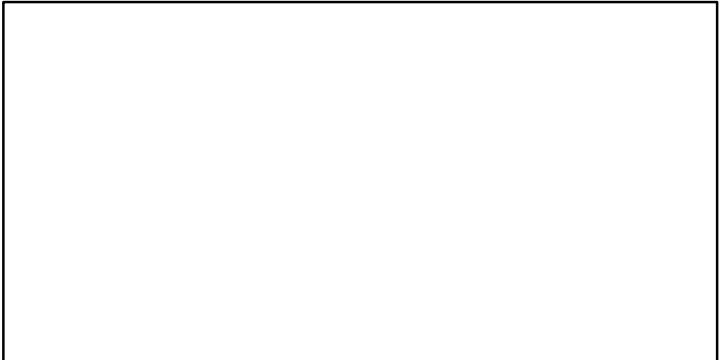
Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

TB-MT (1974-2013-HIVELY)

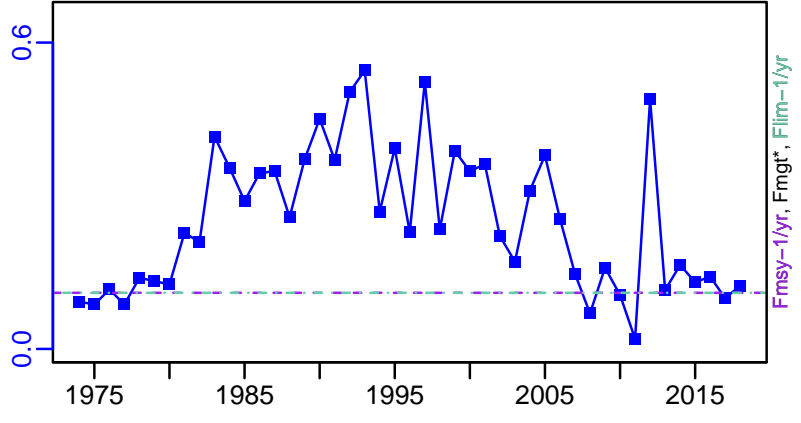
SSB-MT (1974-2018-SISIMP2021-2)



TN *

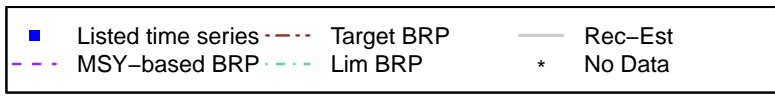
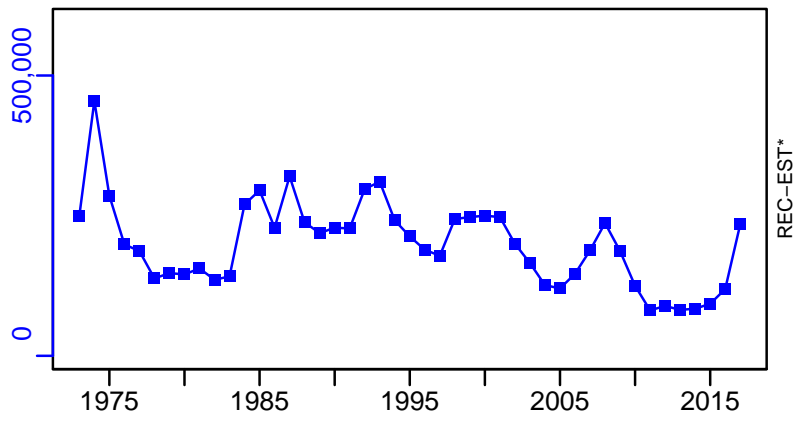
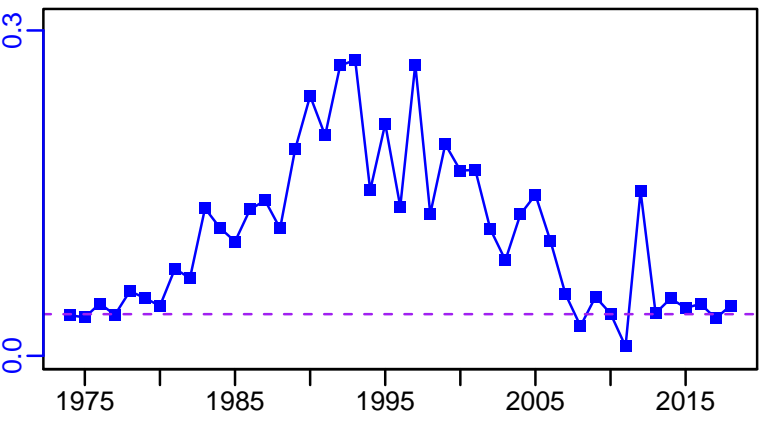


F-1/yr (1974-2018-SISIMP2021-2)



ER-calc-ratio (1974-2018-SISIMP2021-2)

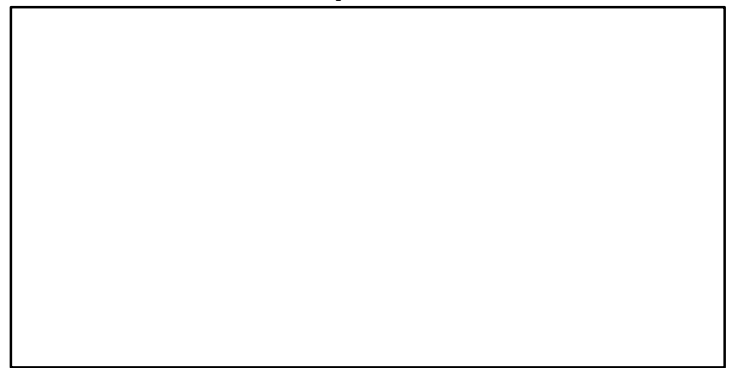
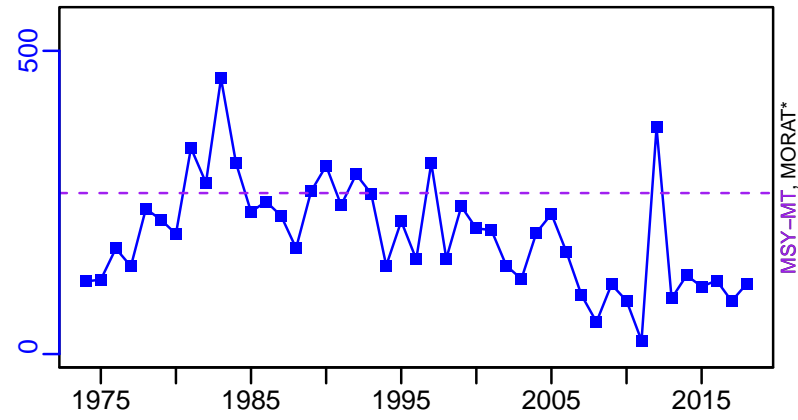
R-E00 (1974-2018-SISIMP2021-2)



Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

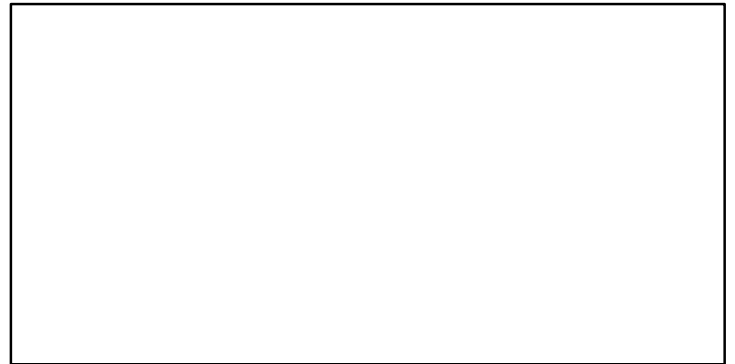
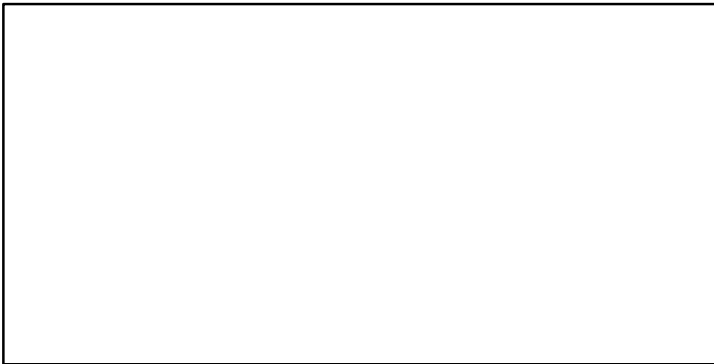
TC-MT, TL*, RecC* (1974-2018-SISIMP2021-2)

TAC*, Cpair*, Cadv*



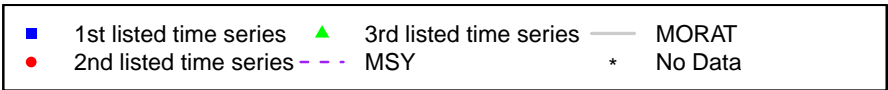
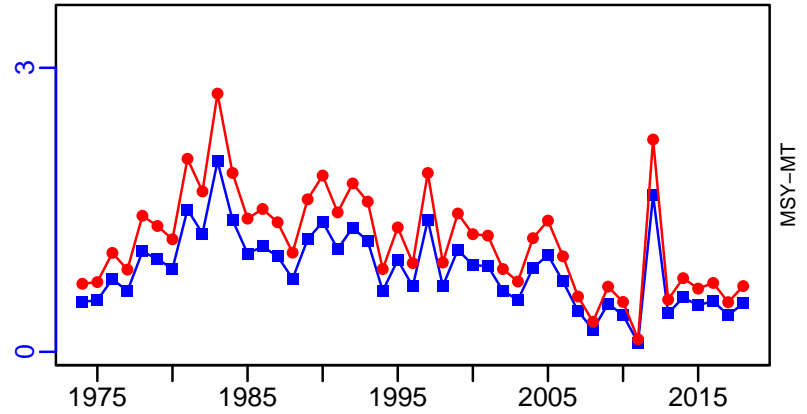
survB*

CPUE*



EFFORT*

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



Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

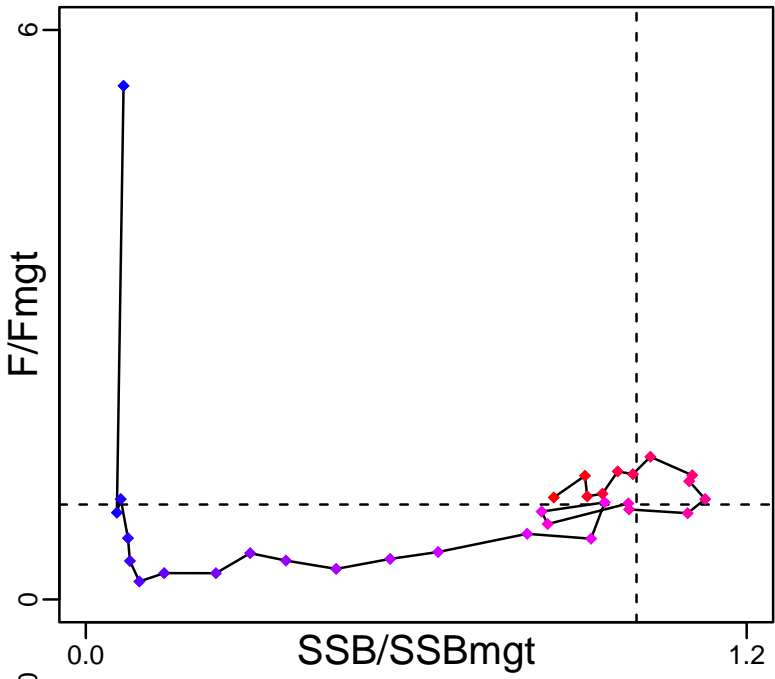
Metadata	
Scientific Name	Morone saxatilis
Current Assess ID	NEFSC-STRIPEDBASSGOMCHATT-1981-2012-HIVELY
Area	Gulf of Maine / Cape Hatteras
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012

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	-	-	-

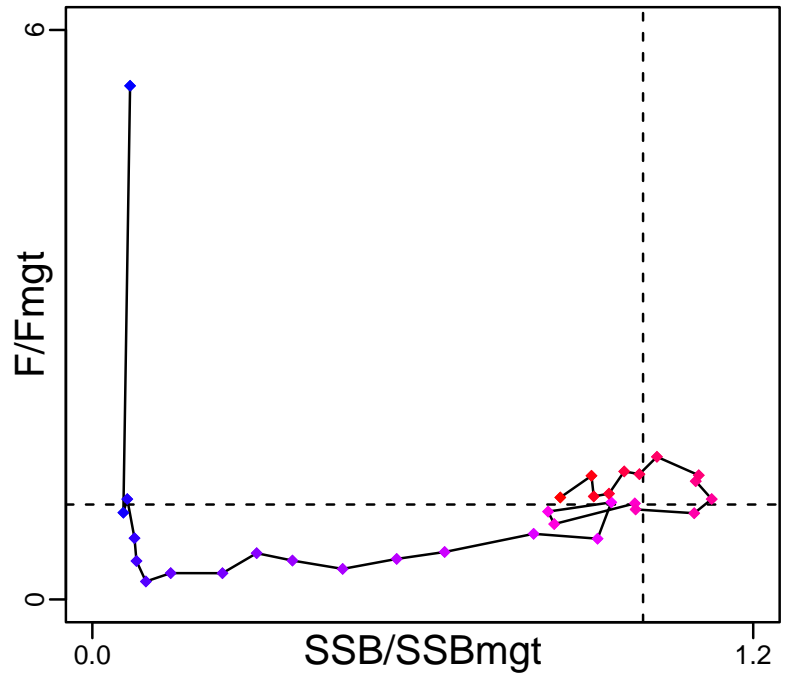
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	61,500	Females	4+
TN	TN-E00	2012	2.15×10^8	-	-
R	R-E00	2012	1.44×10^8	-	1
F	F-1/yr	2012	0.188	-	-
ER	ER-calc-ratio	2012	0.017	-	-
TC	TC-E00	2012	3,600,000		
TL	TL-MT	2012	3080		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
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]

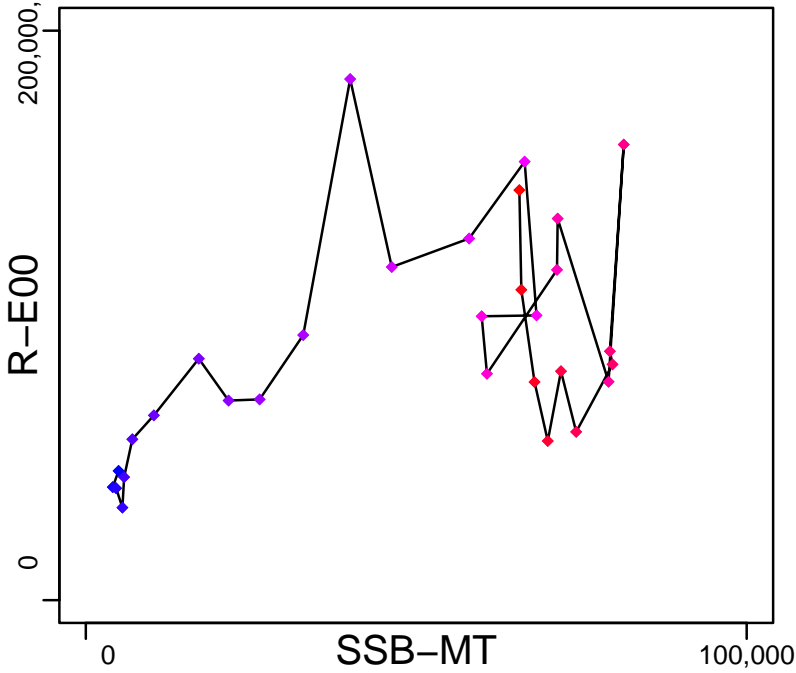
Kobe MSYpref (1981–2012–HIVELY)



Kobe MGTpref (1981–2012–HIVELY)



Spawner Recruit (1981–2012–HIVELY)



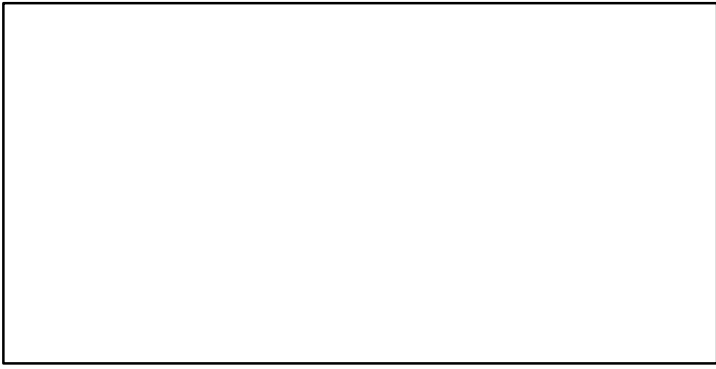
Production*



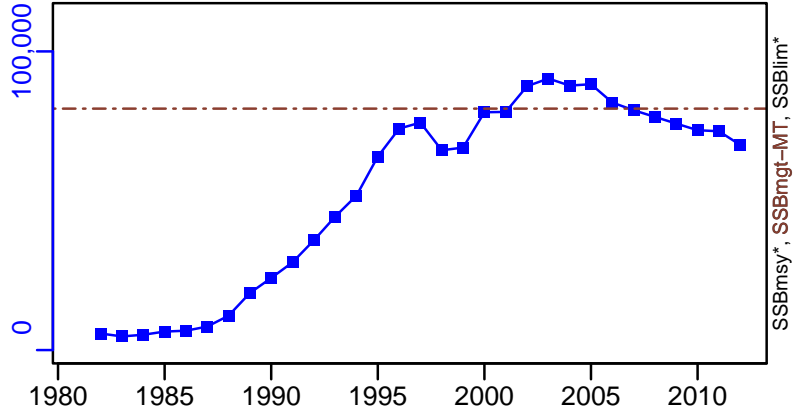
◆ Start Year ◆ End Year * No Data

Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

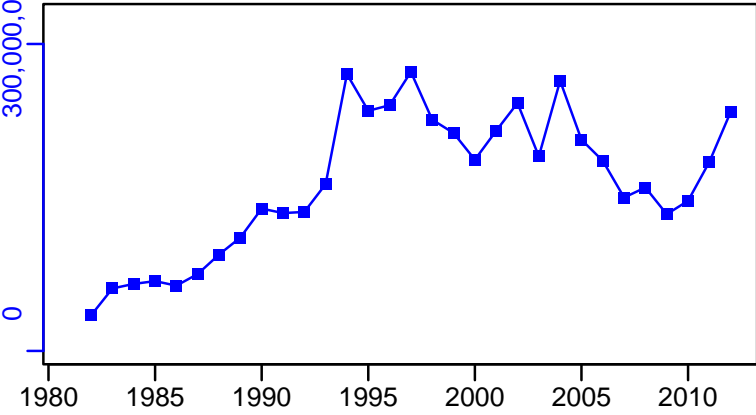
TB*



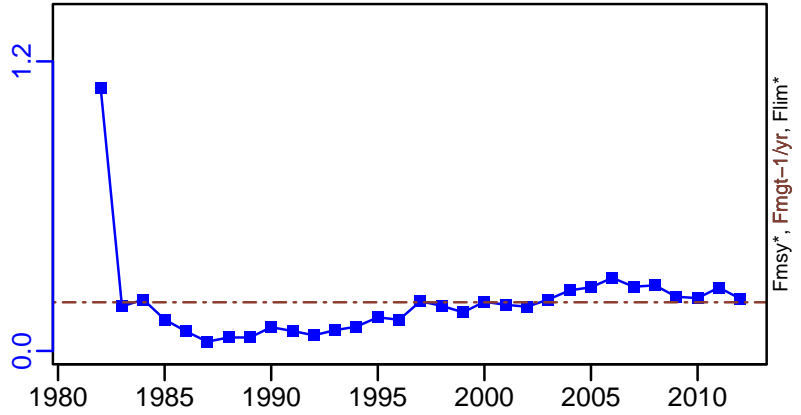
SSB-MT (1981-2012-HIVELY)



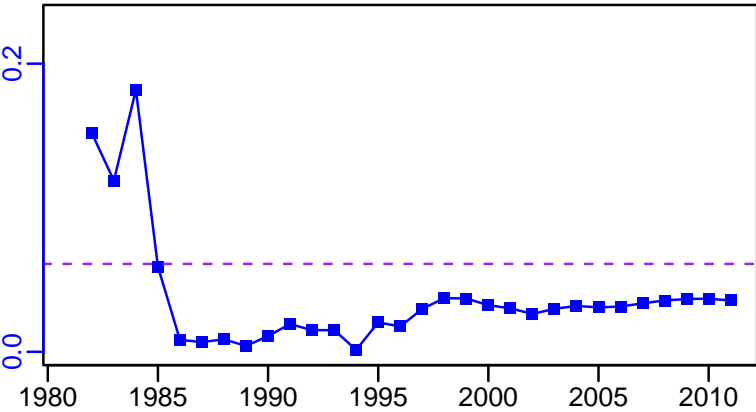
TN-E00 (1981-2012-HIVELY)



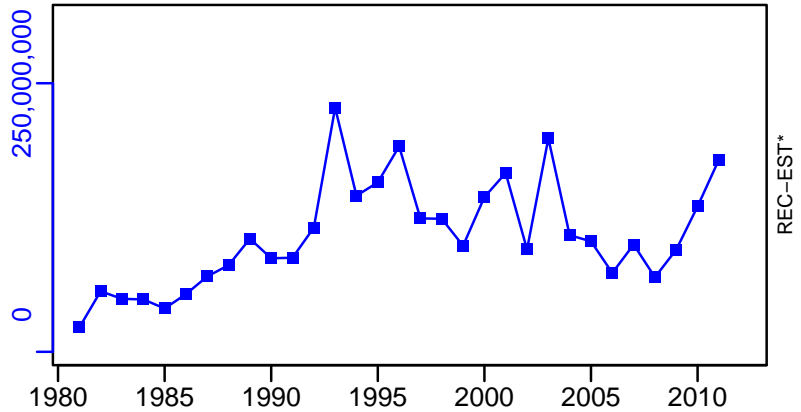
F-1/yr (1981-2012-HIVELY)



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



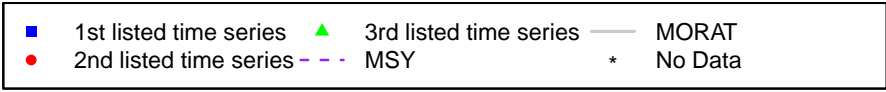
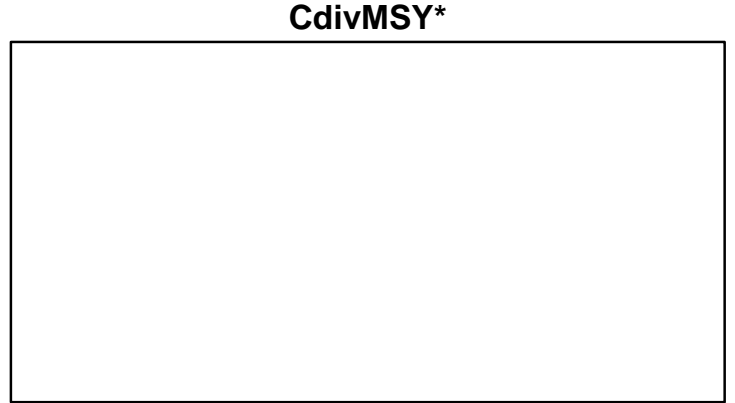
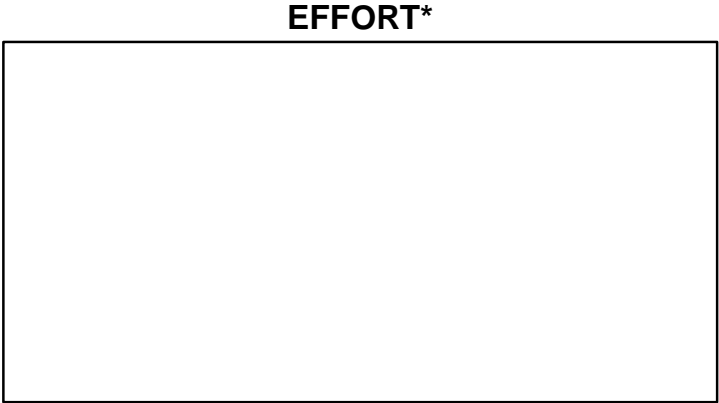
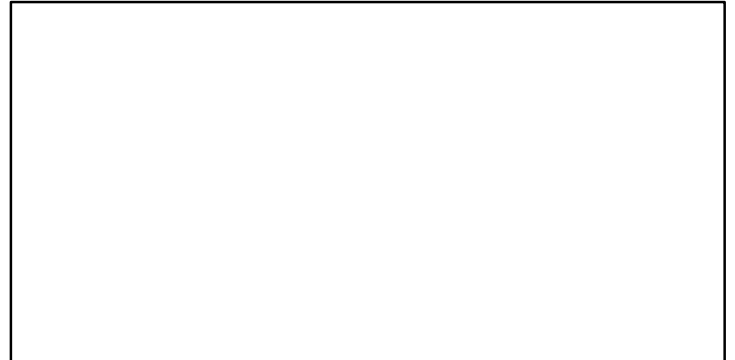
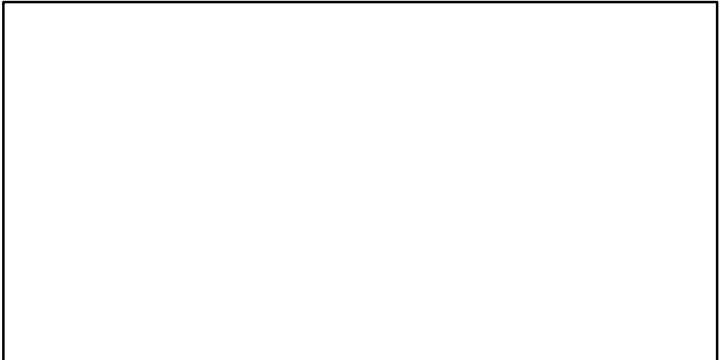
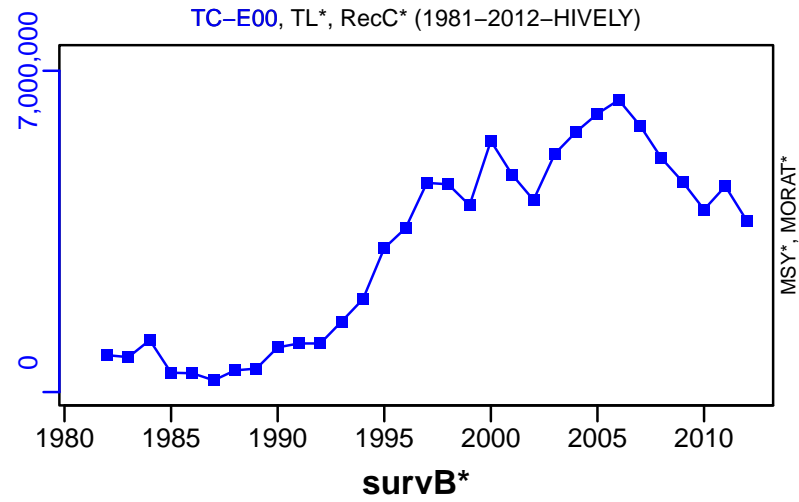
R-E00 (1981-2012-HIVELY)



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]

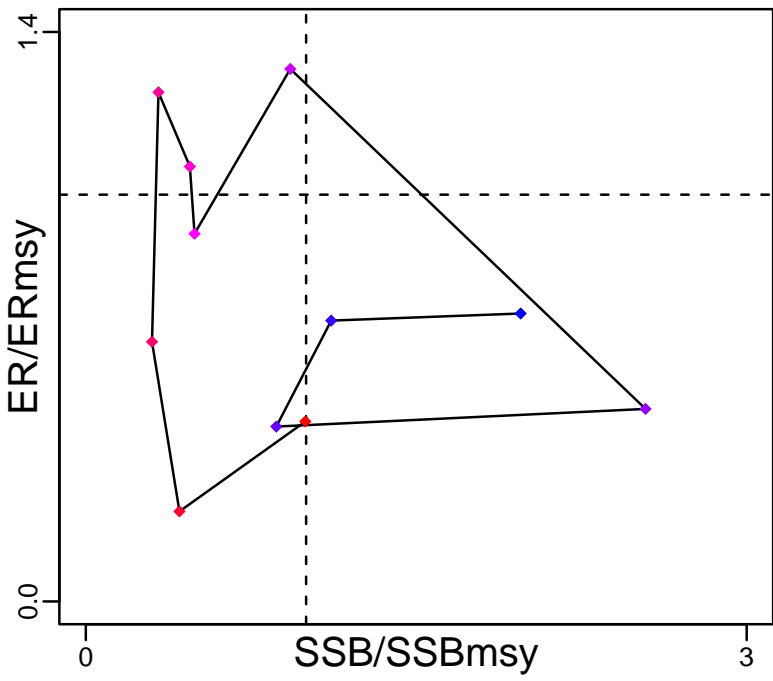
Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	WGNSSK-STRMULLIIIa-IV-VIId-2004-2020-ICESIMP2021-2
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts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

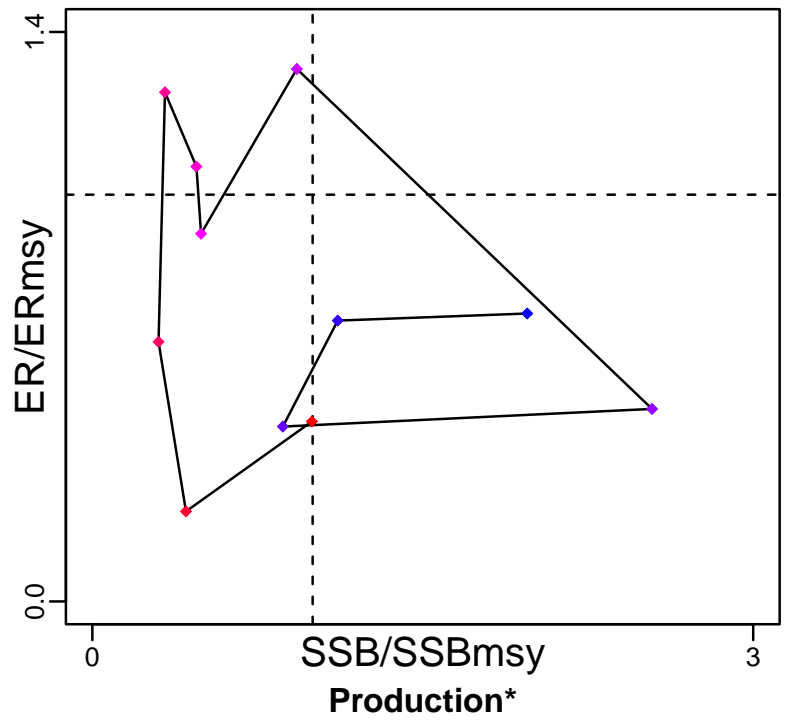
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2018	0.591	-	-
TN	-	-	-	-	-
R	R-relative	2018	7	-	-
F	F-relative	2018	2.077	-	1 to 2
ER	-	-	-	-	-
TC	TC-MT	2018	1648		
TL	TL-MT	2020	3500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt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

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

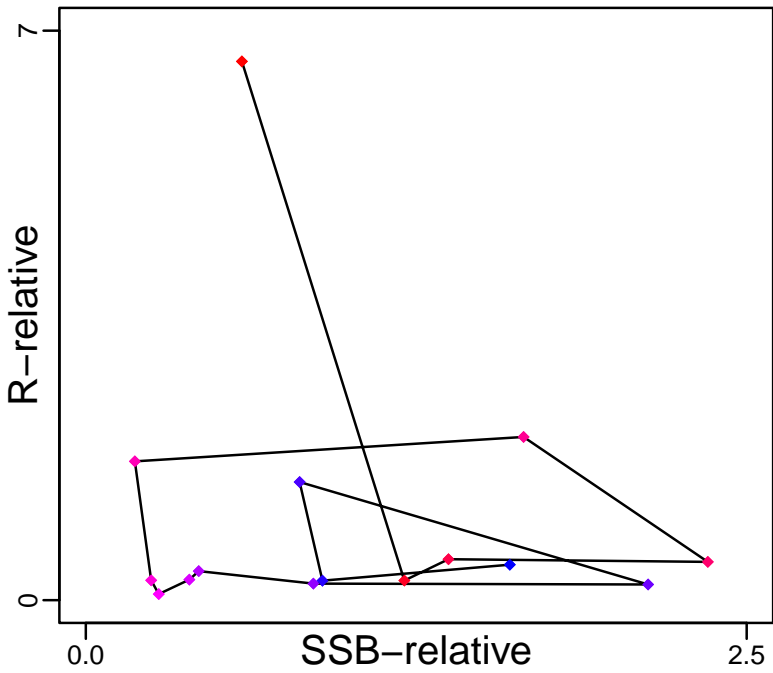
Kobe MSYpref (1975-2014-ICESIMP2018)



Kobe MGTpref (1975-2014-ICESIMP2018)



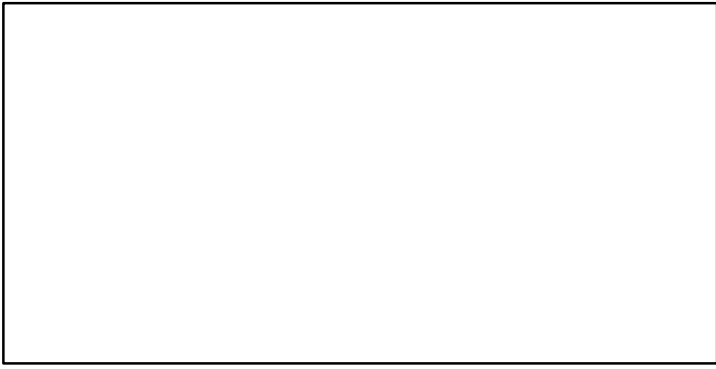
Spawner Recruit (2004-2018-ICESIMP2021)



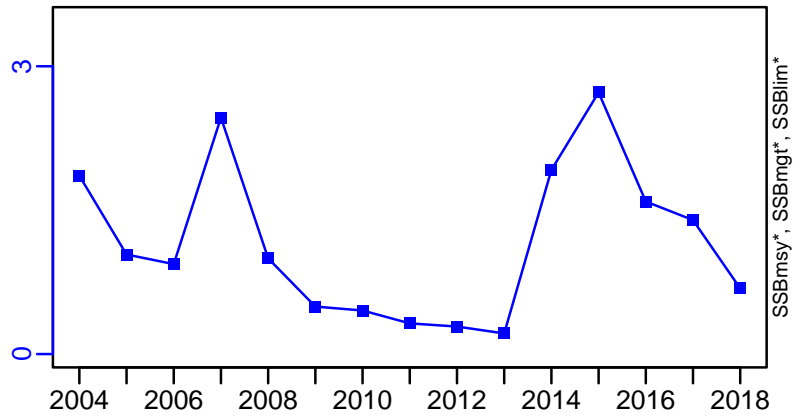
◆ Start Year ◆ End Year * No Data

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

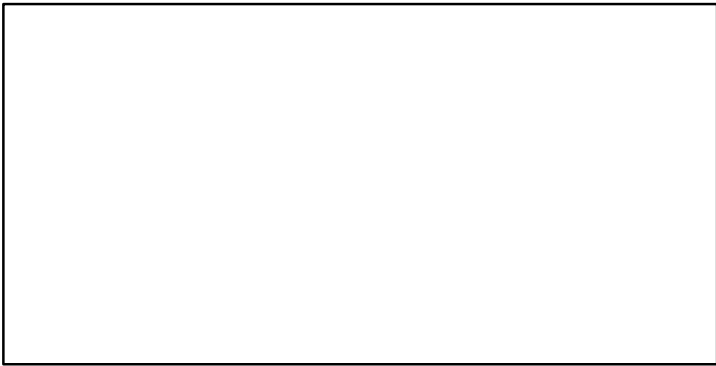
TB*



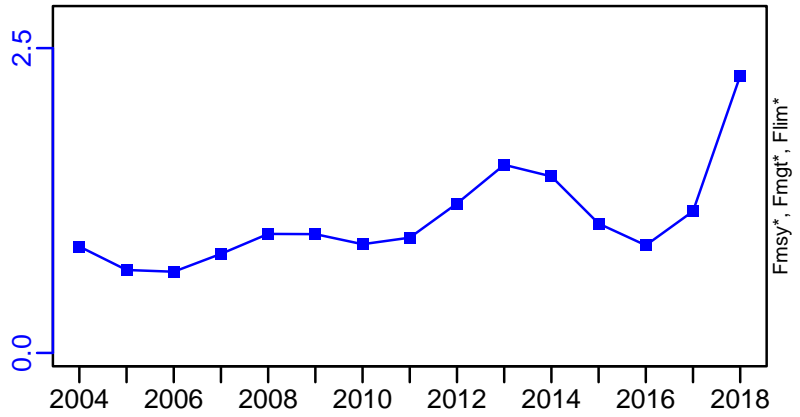
SSB-relative (2004-2018-ICESIMP2021)



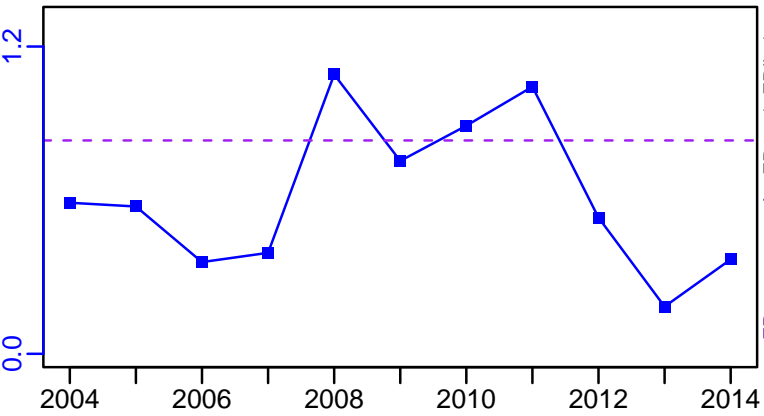
TN *



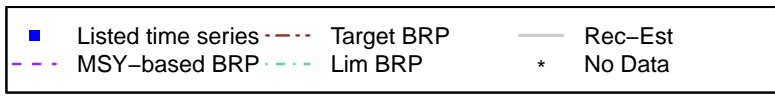
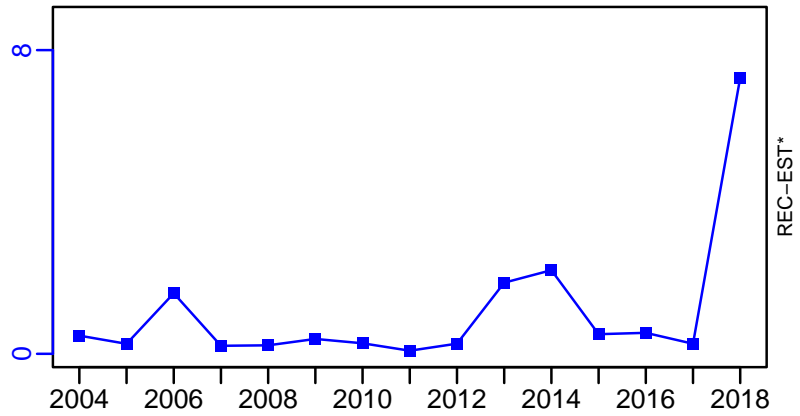
F-relative (2004-2018-ICESIMP2021)



ER-calc-ratio (1975-2014-ICESIMP2018)



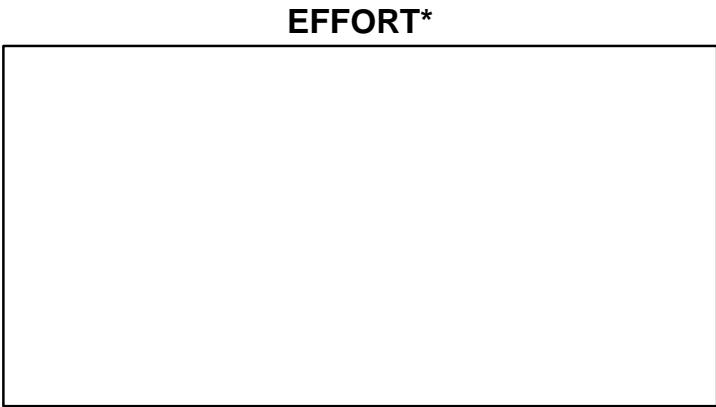
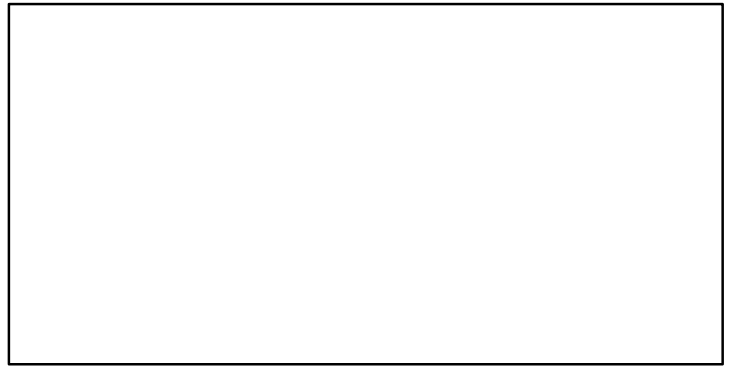
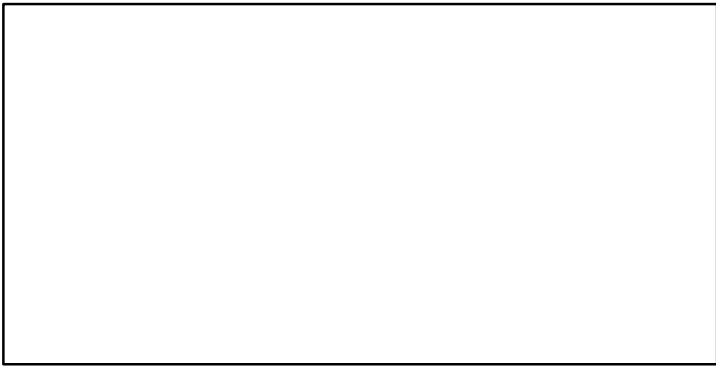
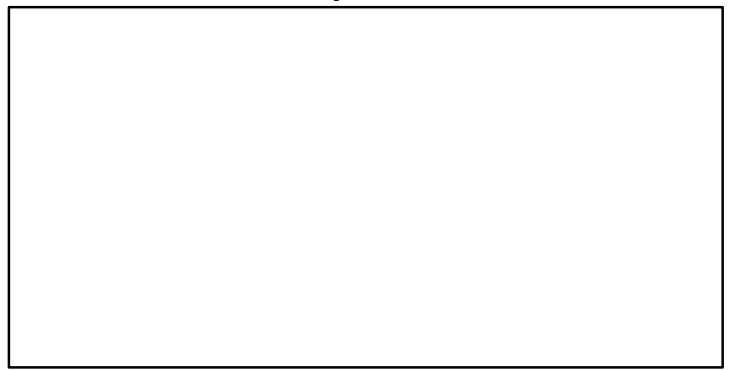
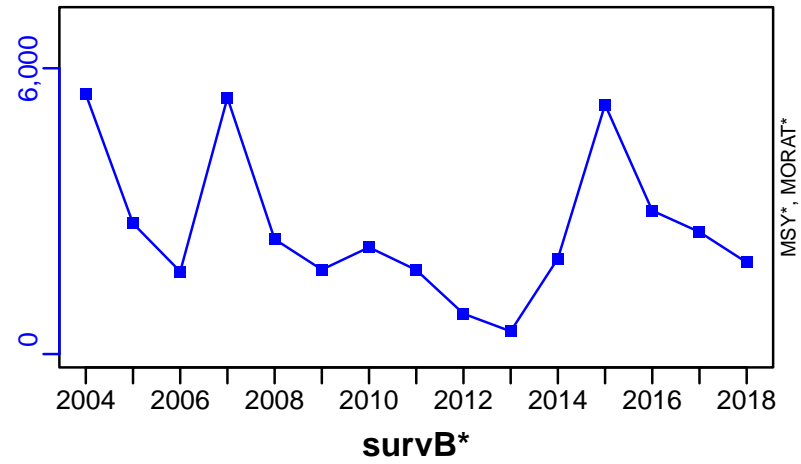
R-relative (2004-2018-ICESIMP2021)



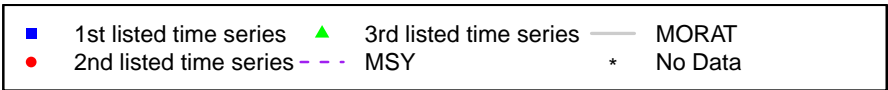
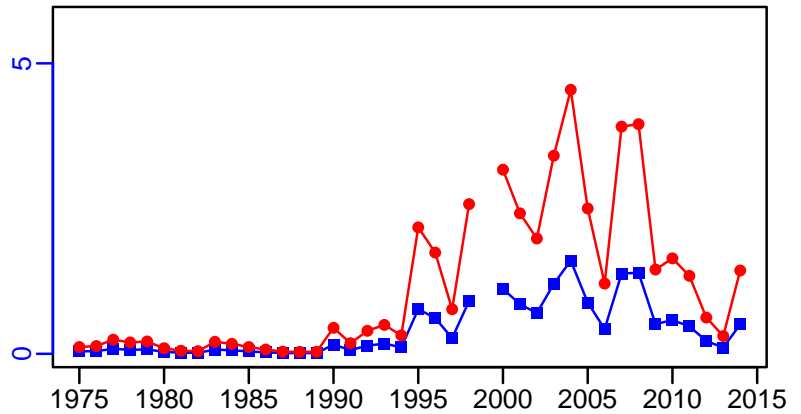
Striped red mullet ICES 3a-4-7d [STRMULLIIIa-IV-VIId]

TC-MT, TL*, RecC* (2004-2018-ICESIMP2021)

TAC*, Cpair*, Cadv*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1975-2014-ICESIMP2018)



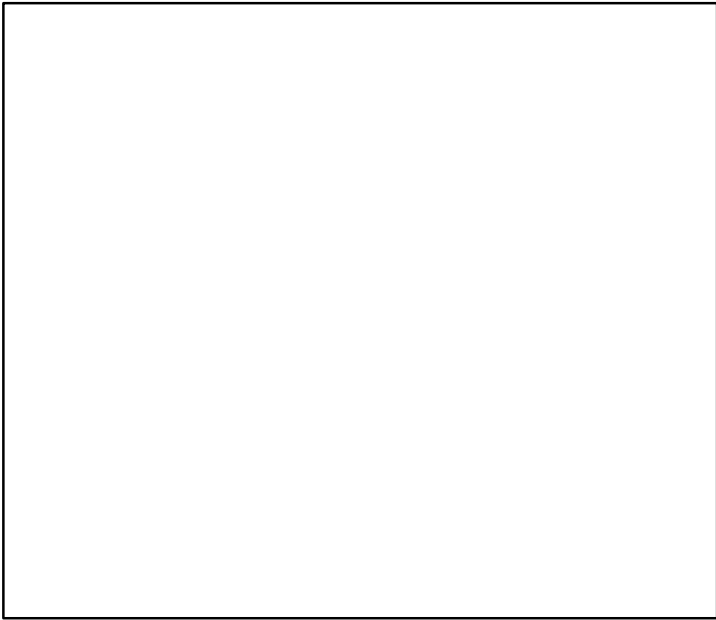
Striped red mullet ICES 6-7abcefg hijk-8-9a [STRMULLVI-VIIabcefg hijk-VIII-IXa]

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

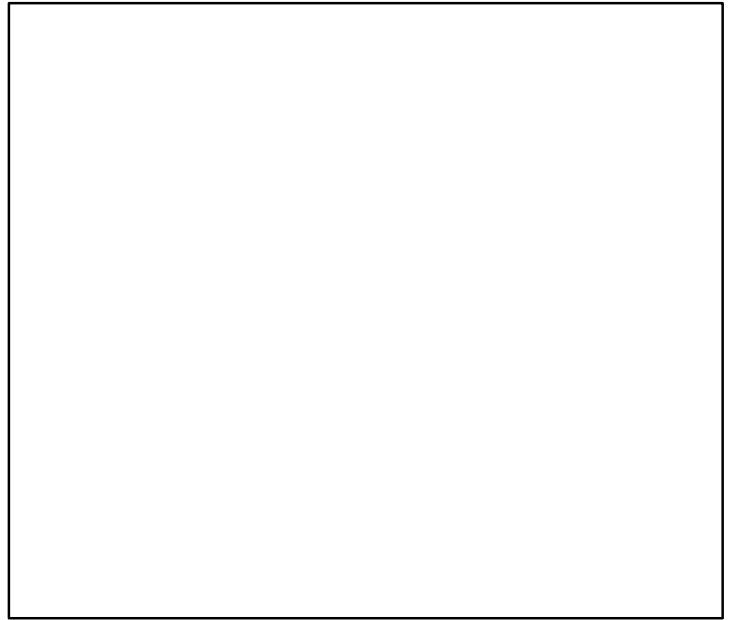
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-	-	-

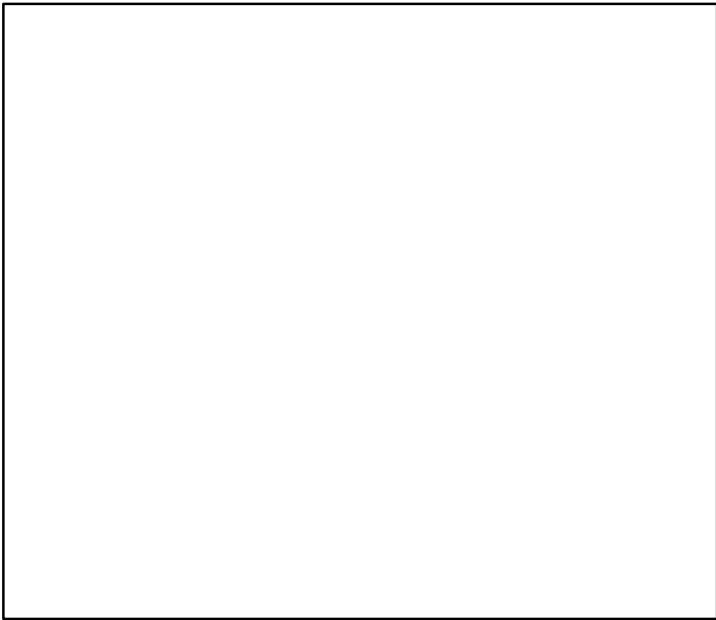
Kobe MSY*



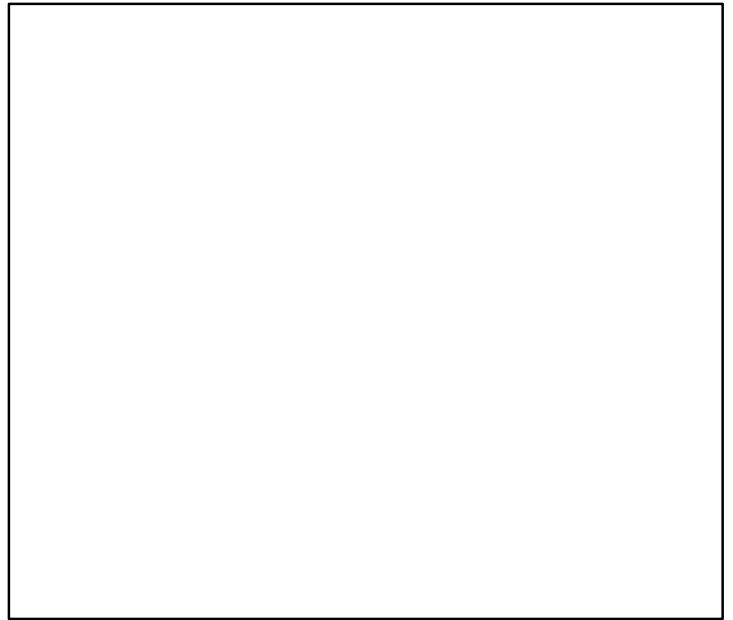
Kobe MGT*



Spawner Recruit*



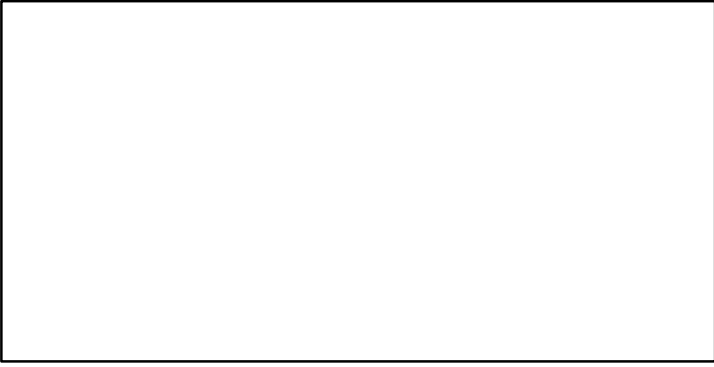
Production*



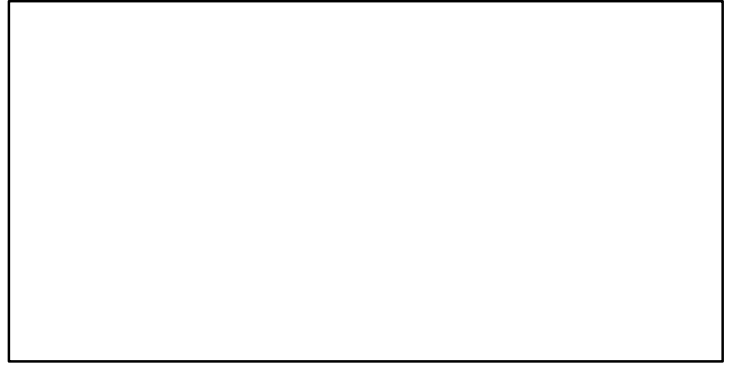
◆ Start Year ◆ End Year * No Data

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

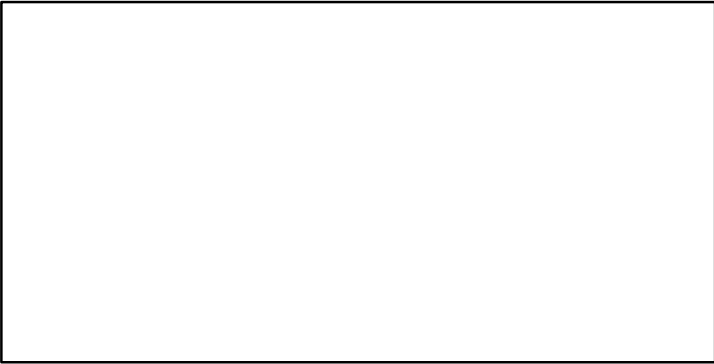
TB*



SSB*



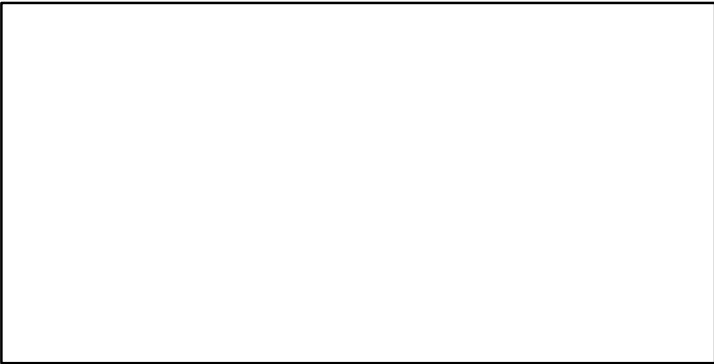
TN *



F*



ER*



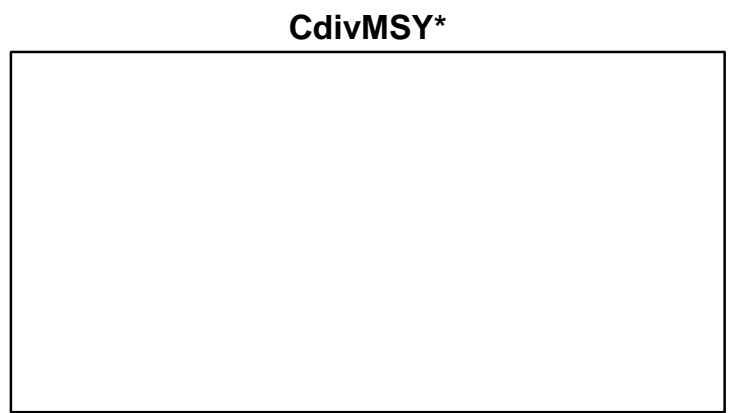
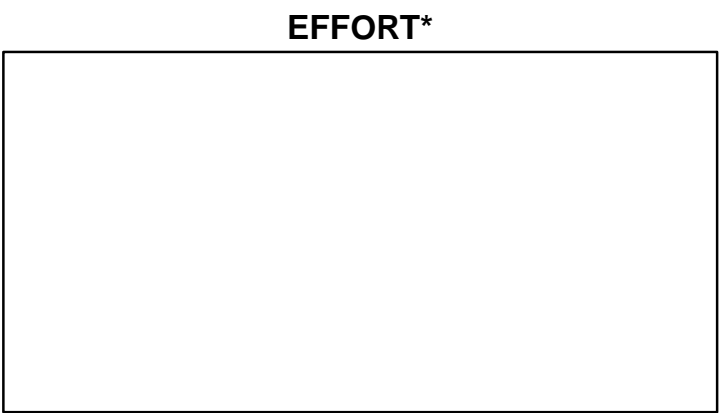
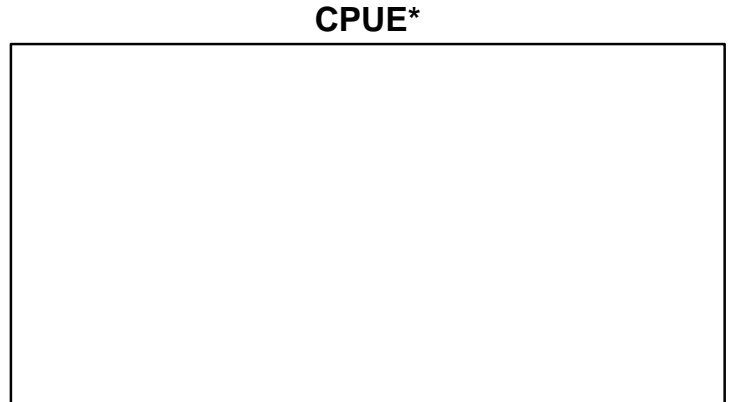
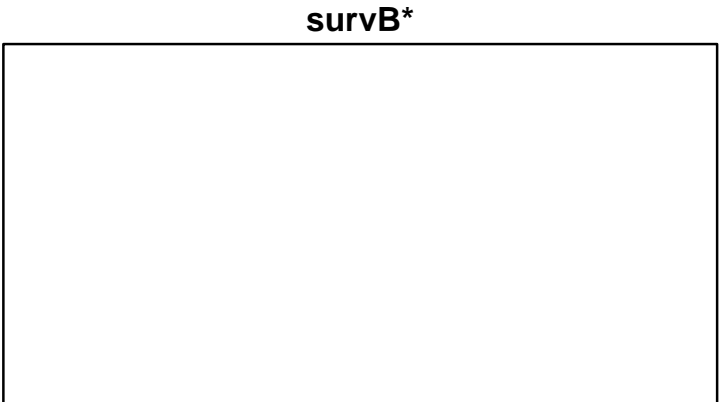
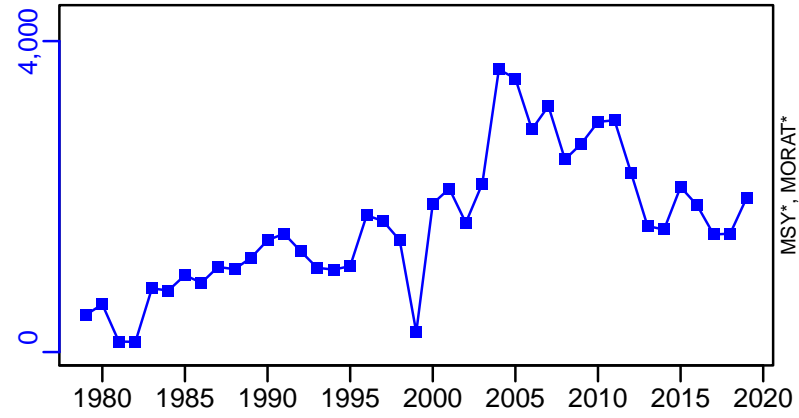
Recruits*



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*



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

Sleek unicornfish Main Hawaiian Islands [SUNIMHI]

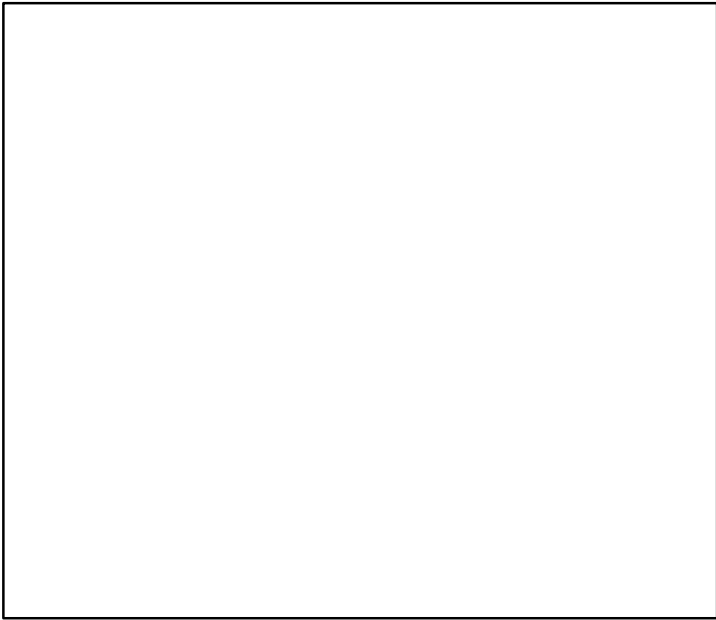
Metadata	
Scientific Name	Naso hexacanthus
Current Assess ID	PIFSC-SUNIMHI-2004-2015-SISIMP2021
Area	Main Hawaiian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fisheries Science Center
Asmts in RAM	2015

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

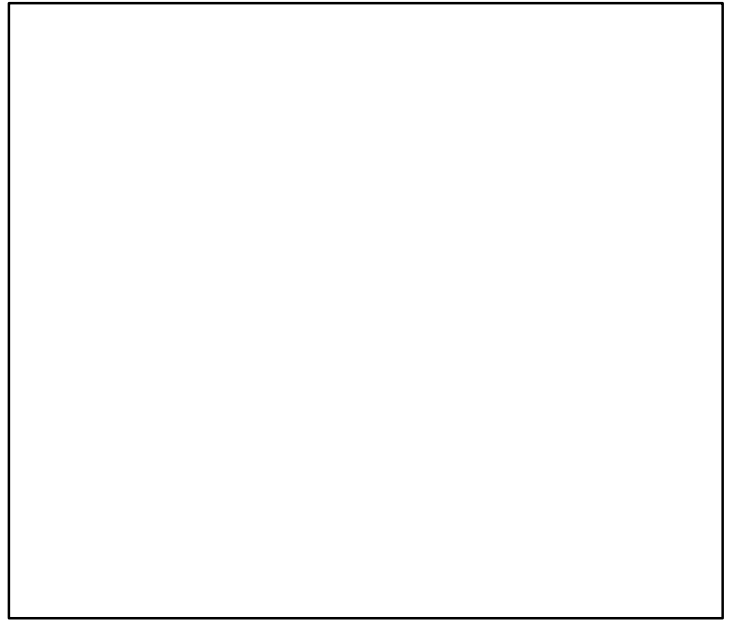
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	1.579		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sleek unicornfish Main Hawaiian Islands [SUNIMHI]

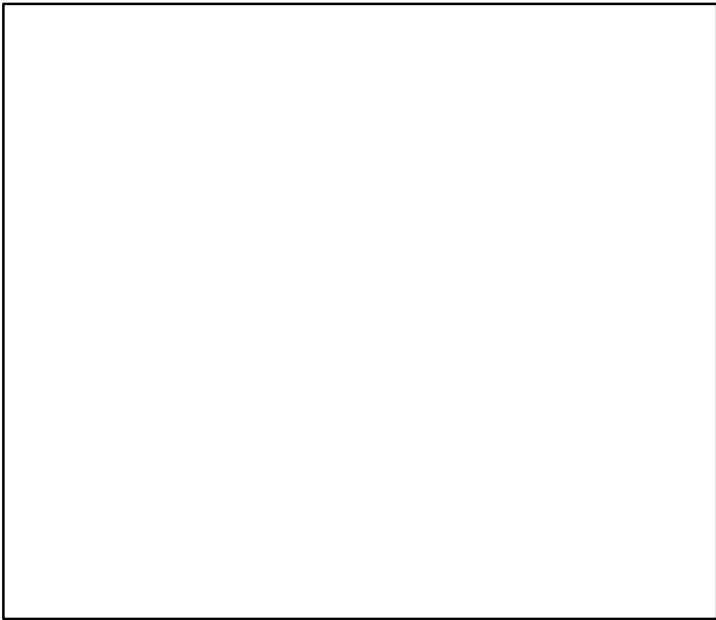
Kobe MSY*



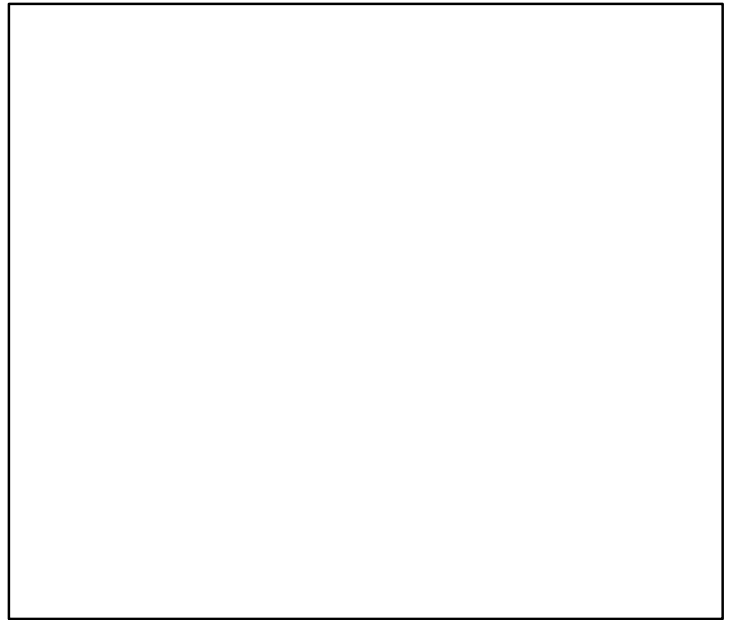
Kobe MGT*



Spawner Recruit*



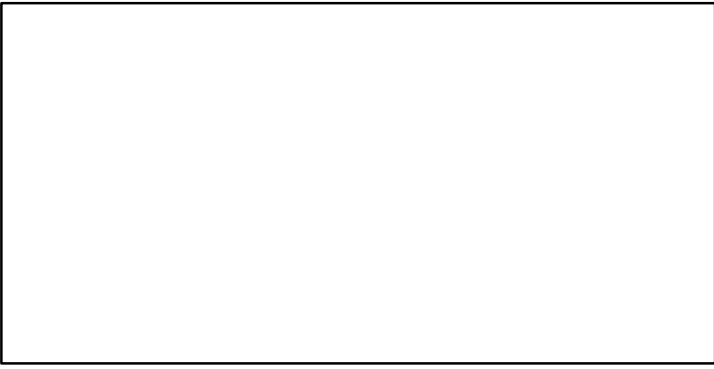
Production*



◆ Start Year ◆ End Year * No Data

Sleek unicornfish Main Hawaiian Islands [SUNIMHI]

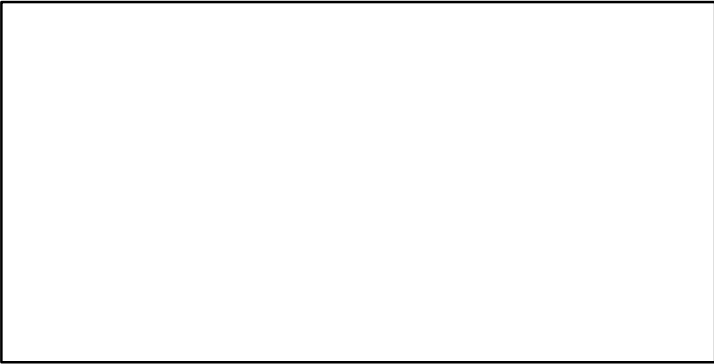
TB*



SSB*



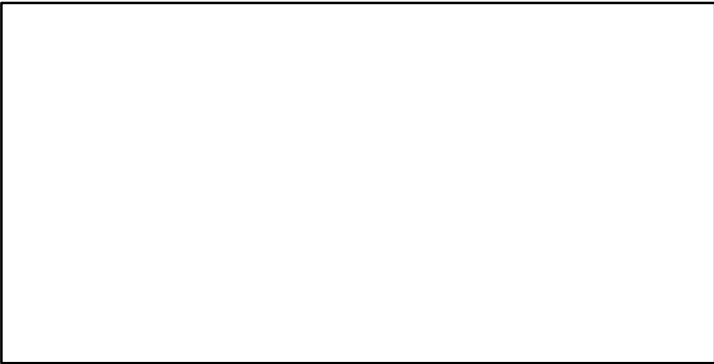
TN *



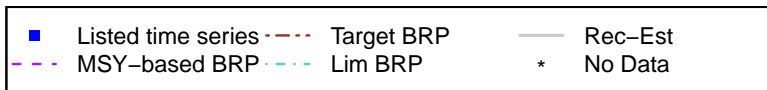
F*



ER*



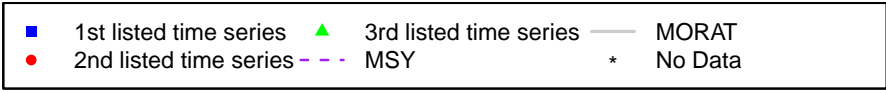
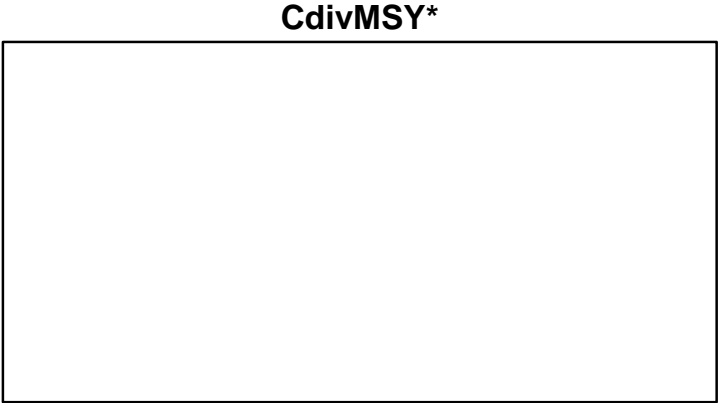
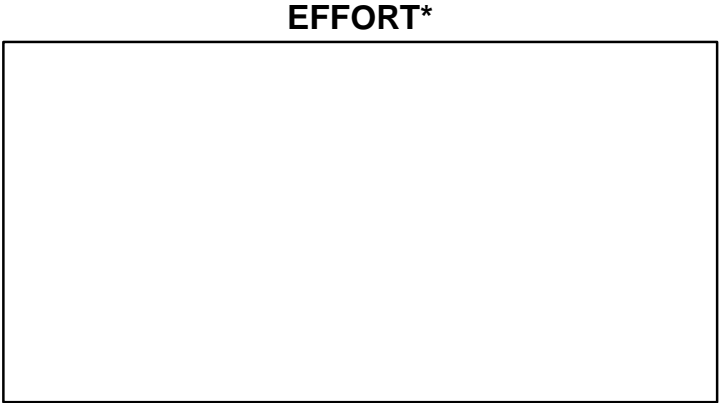
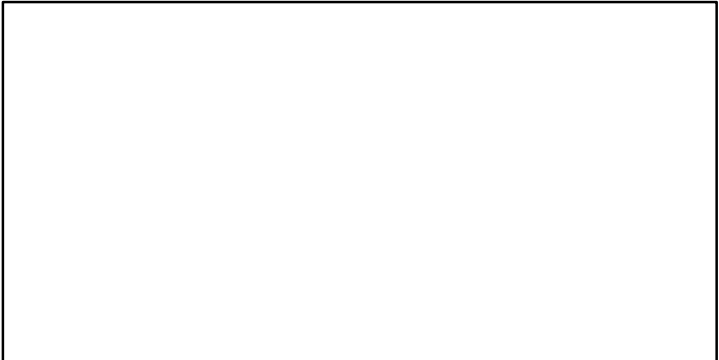
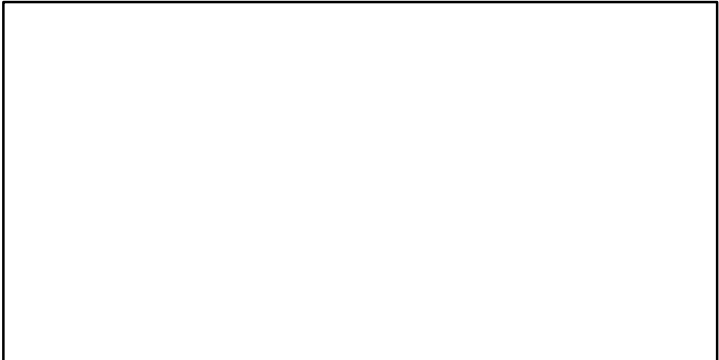
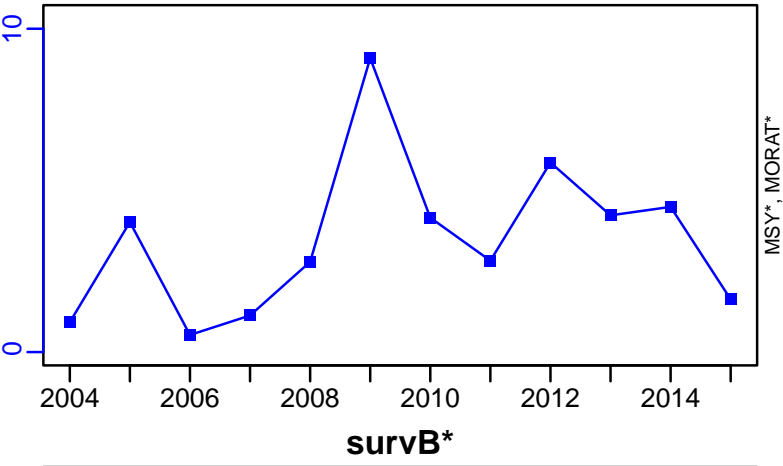
Recruits*



Sleek unicornfish Main Hawaiian Islands [SUNIMHI]

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

TAC*, Cpair*, Cadv*



School whiting Southeast Australia [SWHITSE]

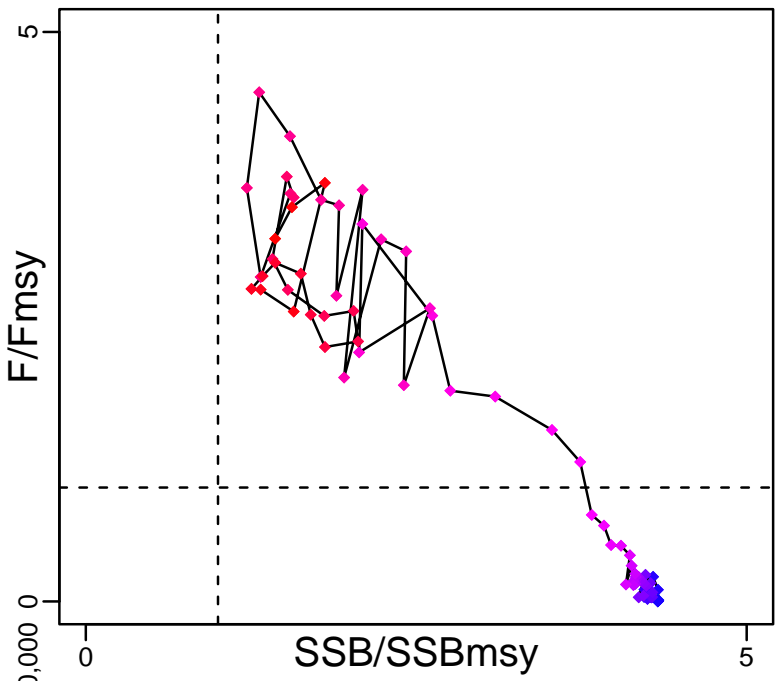
Metadata	
Scientific Name	Sillago flindersi
Current Assess ID	CSIRO-SWHITSE-1942-2019-MOESENER
Area	Southeast Australia
Management Authority	Australian Fisheries Management Authority, Australia national management
Assessor	Commonwealth Scientific and Industrial Research Organization
Asmts in RAM	2019,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

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

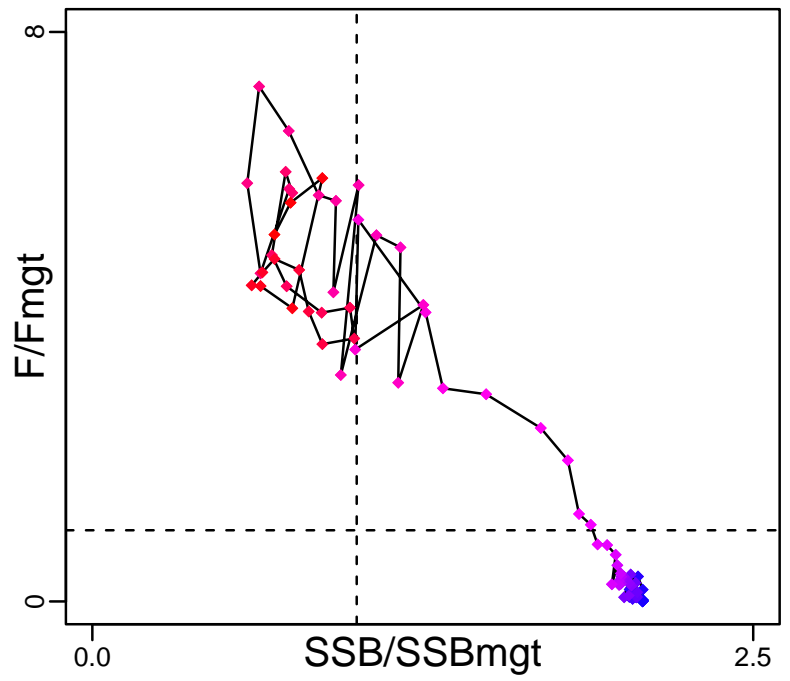
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	10,931	-	-
SSB	SSB-MT	2019	3565	-	-
TN	-	-	-	-	-
R	R-E00	2019	3.27×10^{14}	-	-
F	F-1/yr	2019	1.085	-	-
ER	ER-ratio	2019	0.198	-	-
TC	TC-MT	2019	1752		
TL	TL-MT	2016	1440		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.432		
F/Fmsy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

School whiting Southeast Australia [SWHITSE]

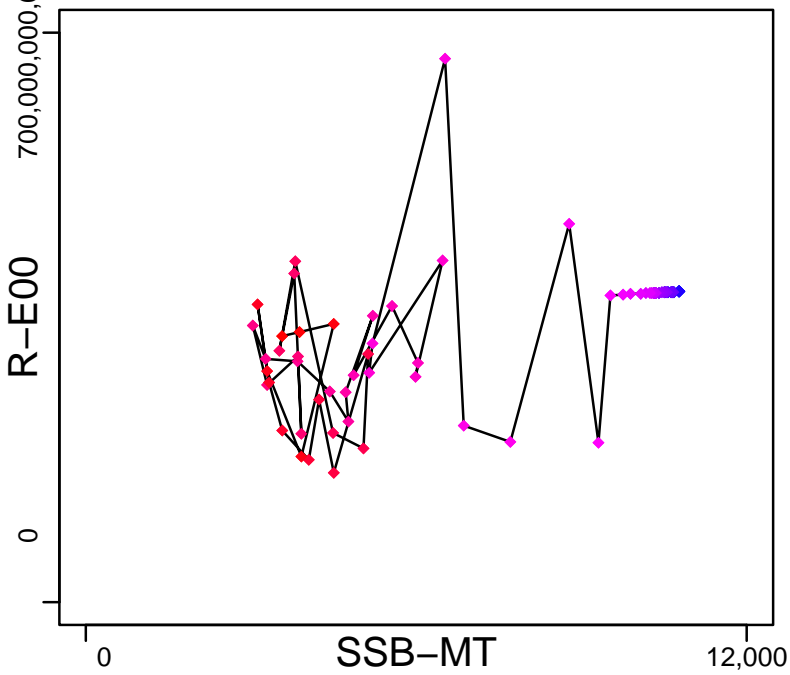
Kobe MSYpref (1942–2019–MOESENEDER)



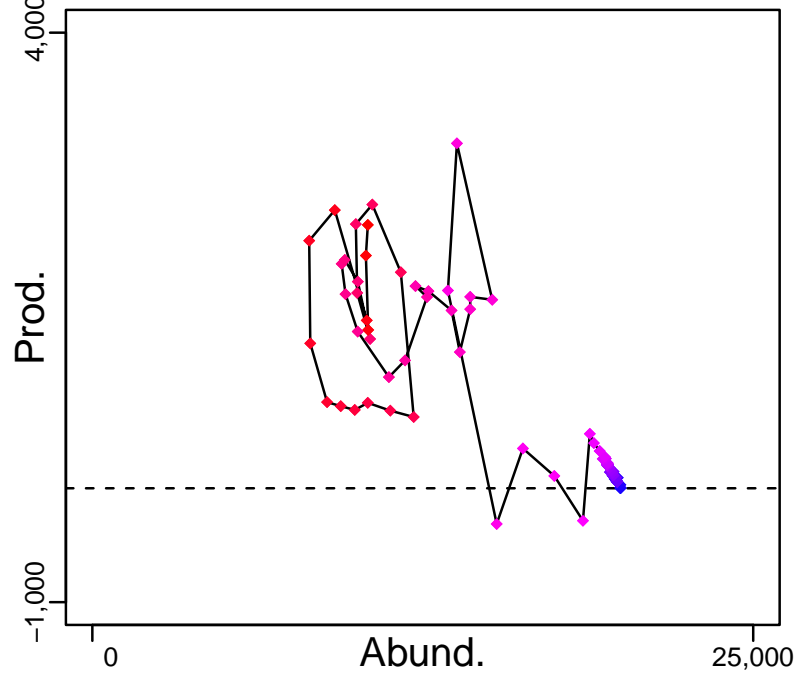
Kobe MGTpref (1942–2019–MOESENEDER)



Spawner Recruit (1942–2019–MOESENEDER)



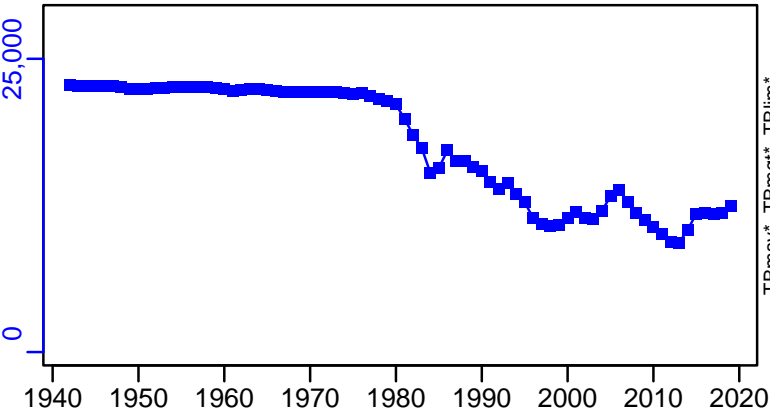
Production (1942–2019–MOESENEDER)



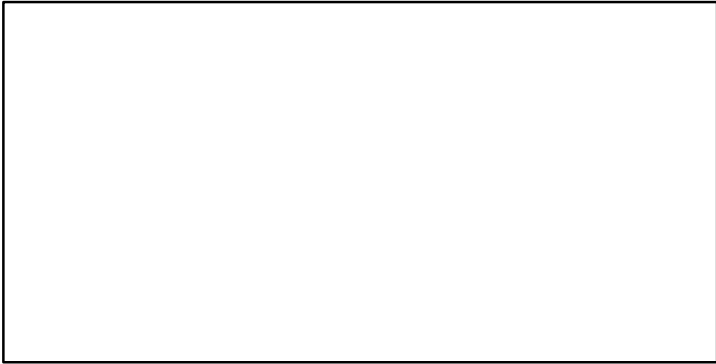
◆ Start Year ◆ End Year * No Data

School whiting Southeast Australia [SWHITSE]

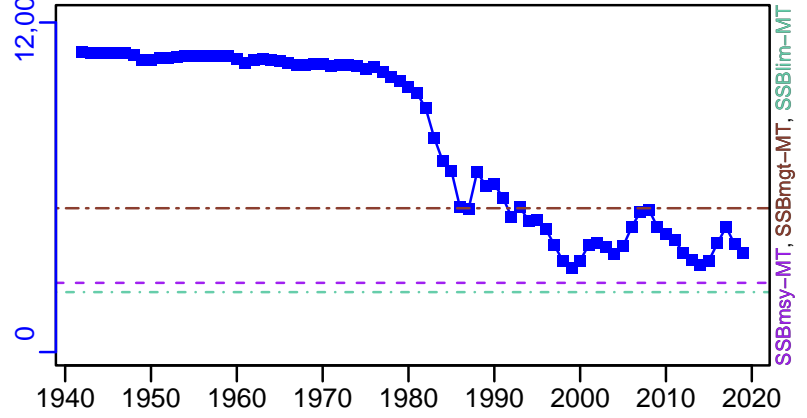
TB-MT (1942-2019-MOESENER)



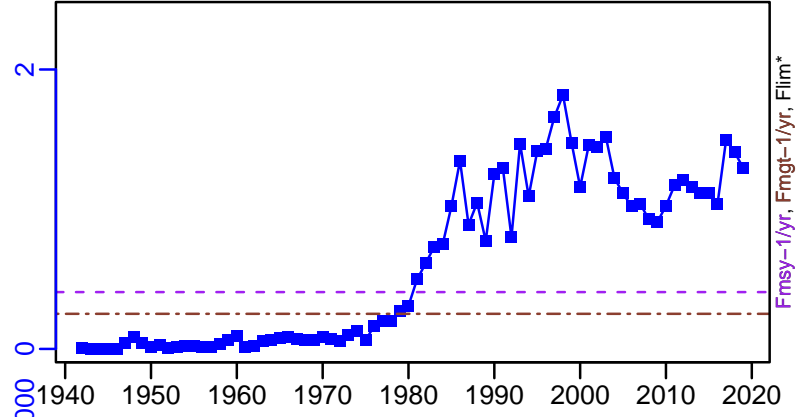
TN *



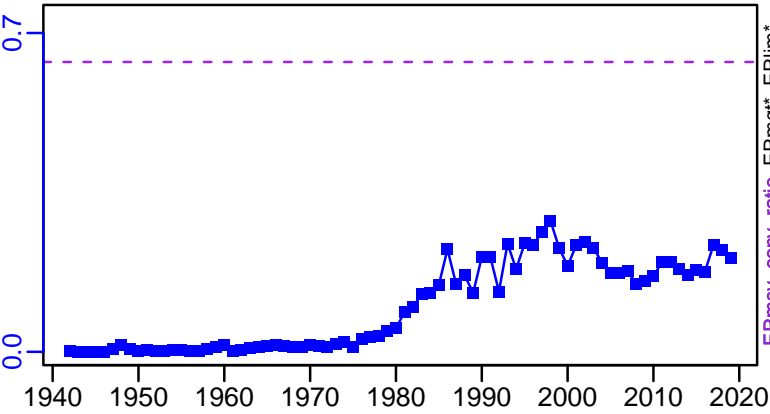
SSB-MT (1942-2019-MOESENER)



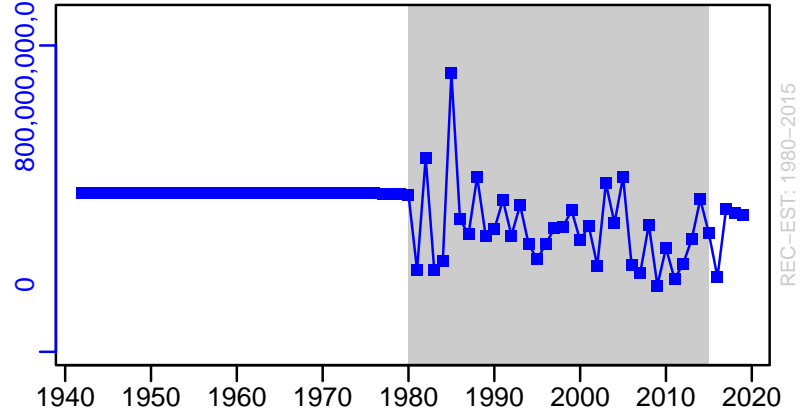
F-1/yr (1942-2019-MOESENER)



ER-ratio (1942-2019-MOESENER)



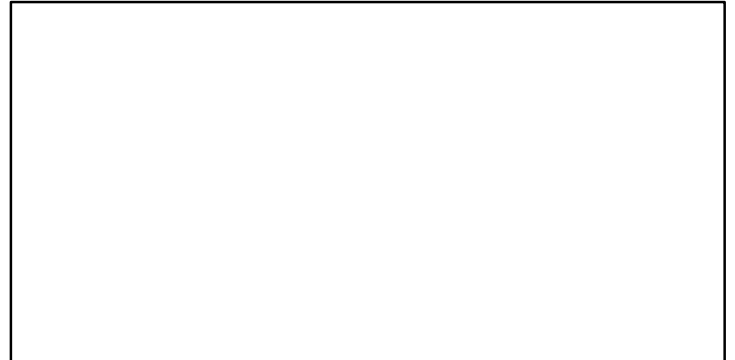
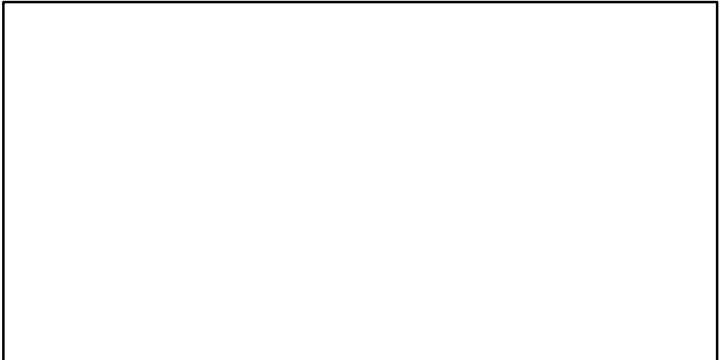
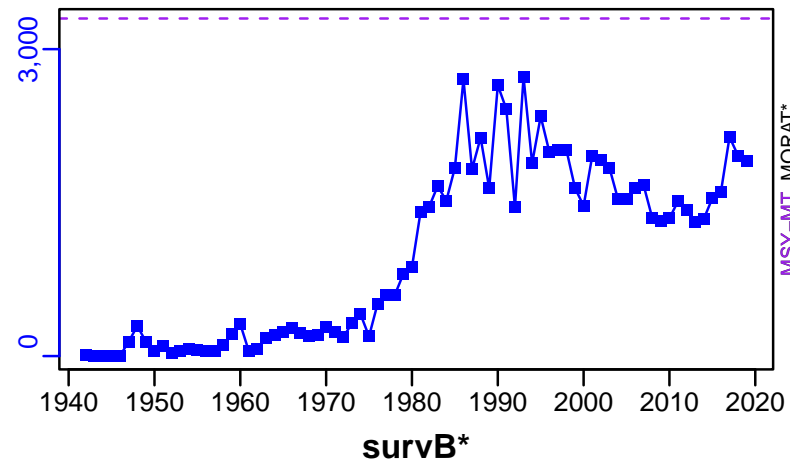
R-E00 (1942-2019-MOESENER)



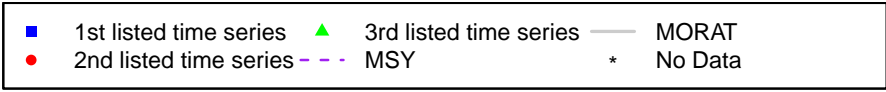
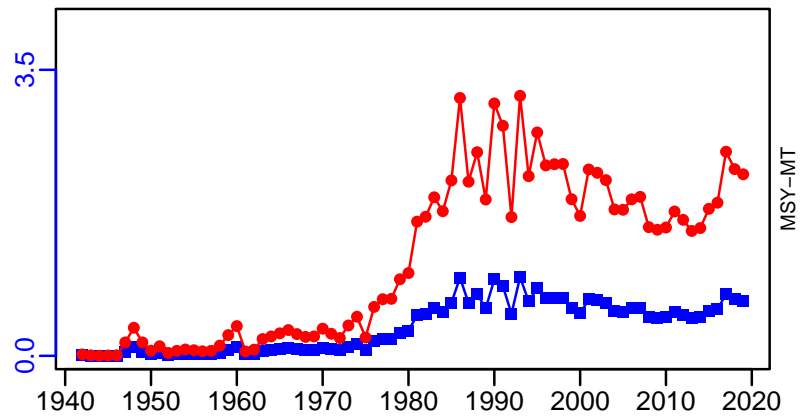
School whiting Southeast Australia [SWHITSE]

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

TAC*, Cpair*, Cadv*



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



Tarakihi Sub-Antarctic [TARAKNZ]

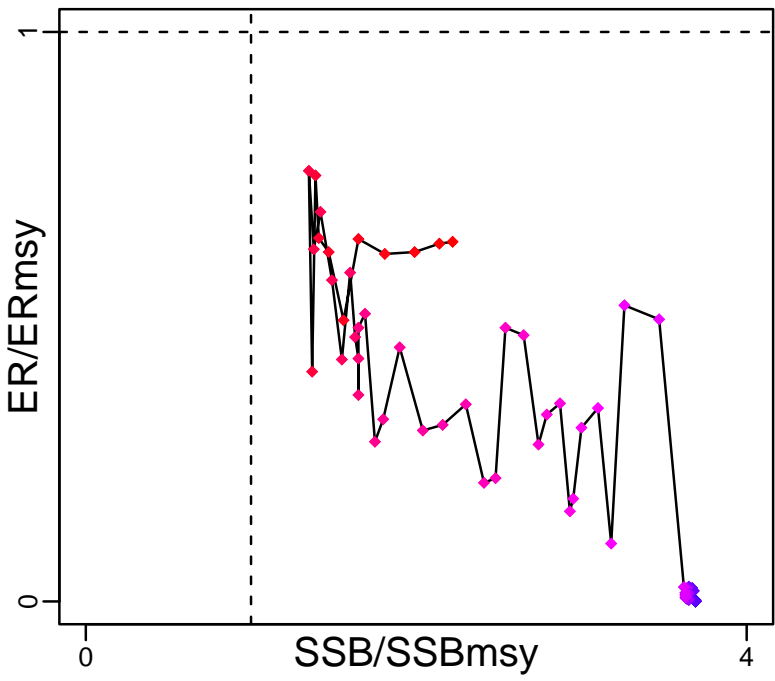
Metadata	
Scientific Name	Nemadactylus macropterus
Current Assess ID	NIWA-TARAKNZ-1932-2007-CORDUE
Area	Sub-Antarctic
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in RAM	2007

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

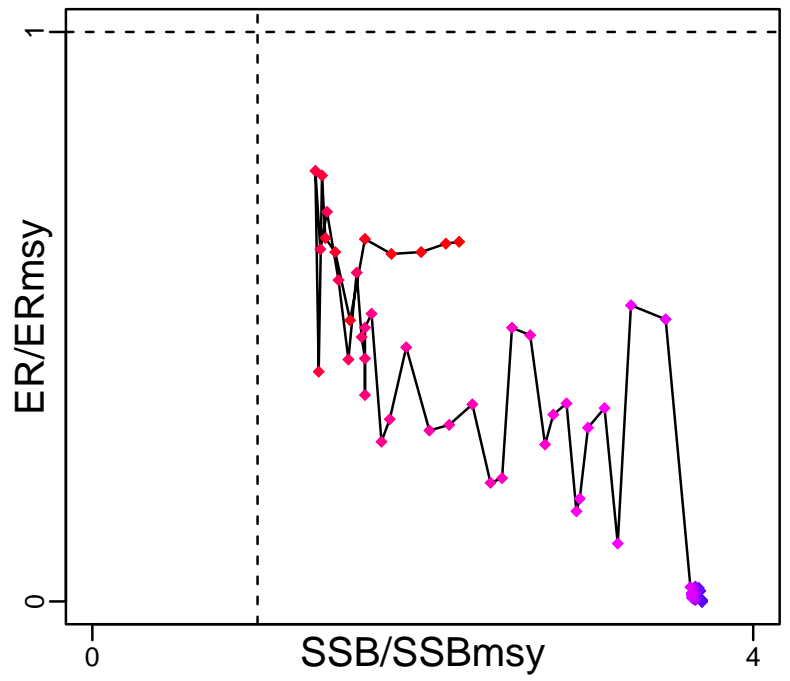
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2007	10,800	Both	-
TN	-	-	-	-	-
R	R-E00	2007	2,310,000	-	0
F	F-1/yr	2007	0.077	-	-
ER	ER-ratio	2007	0.038	-	-
TC	TC-MT	2007	957		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2007	2.22		
F/Fmsy	FdivFmsy-dimensionless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

Tarakihi Sub-Antarctic [TARAKNZ]

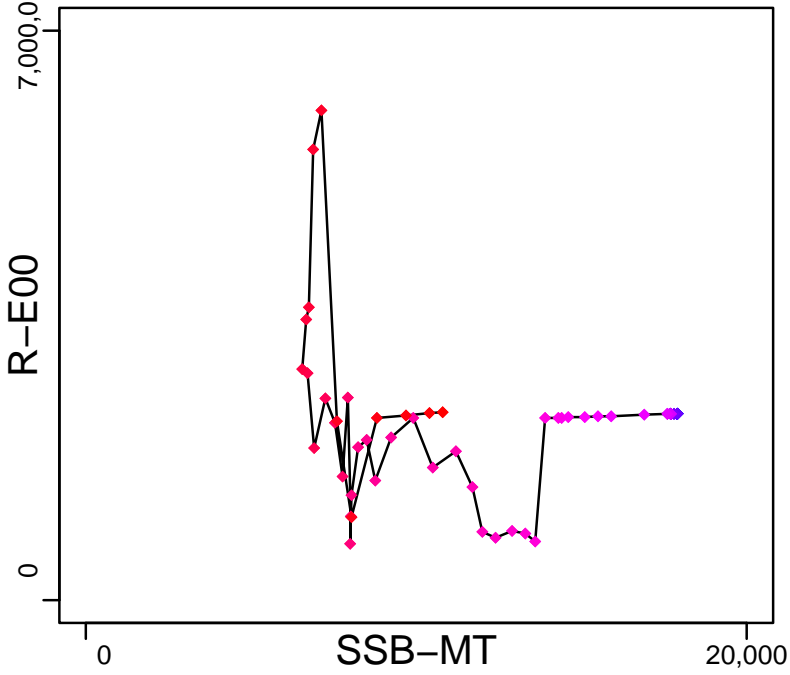
Kobe MSYpref (1932-2007-CORDUE)



Kobe MGTpref (1932-2007-CORDUE)



Spawner Recruit (1932-2007-CORDUE)



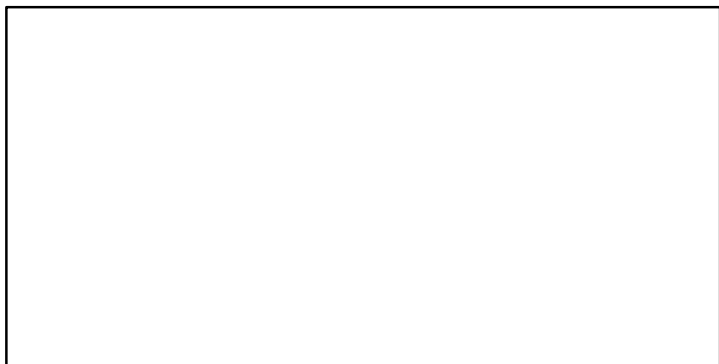
Production*



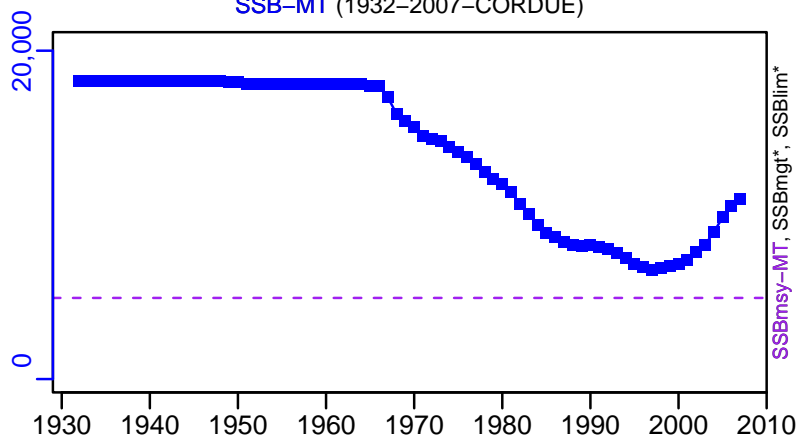
◆ Start Year ◆ End Year * No Data

Tarakihi Sub-Antarctic [TARAKNZ]

TB*



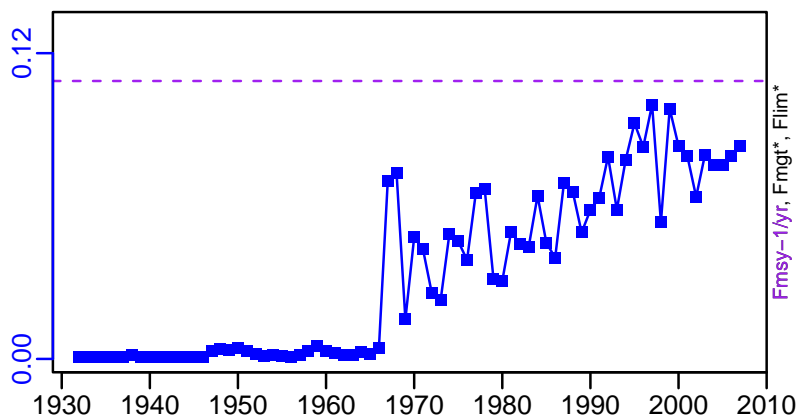
SSB-MT (1932-2007-CORDUE)



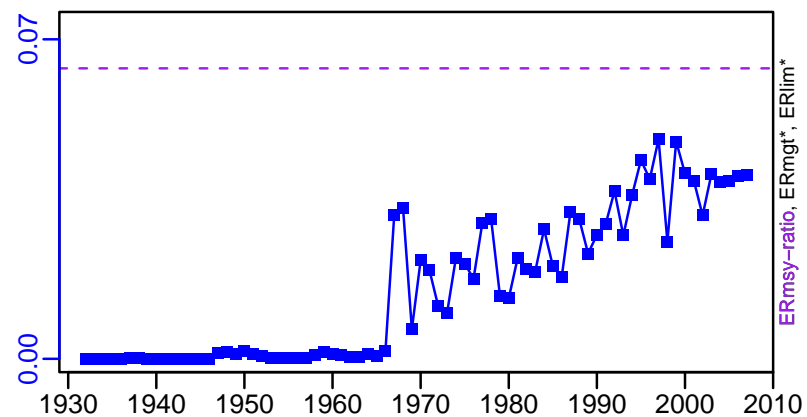
TN *



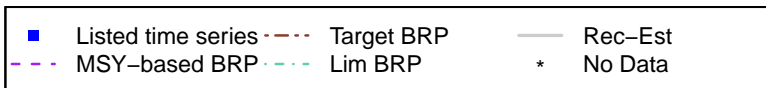
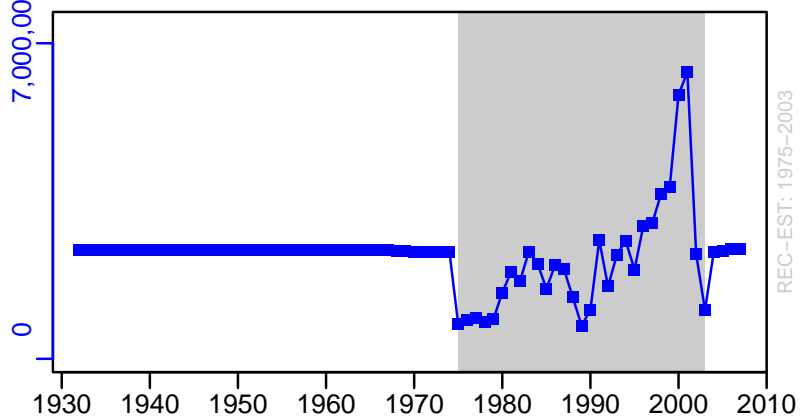
F-1/yr (1932-2007-CORDUE)



ER-ratio (1932-2007-CORDUE)



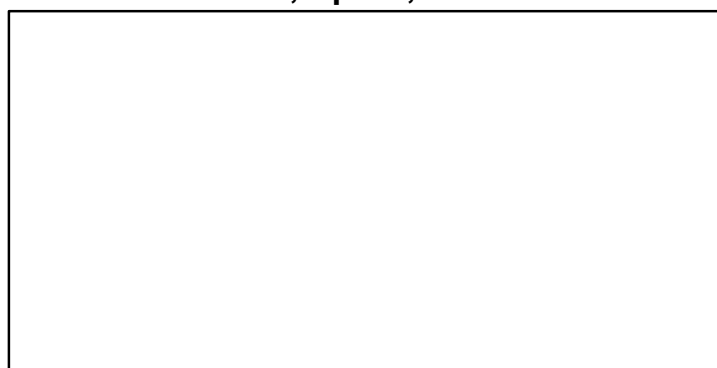
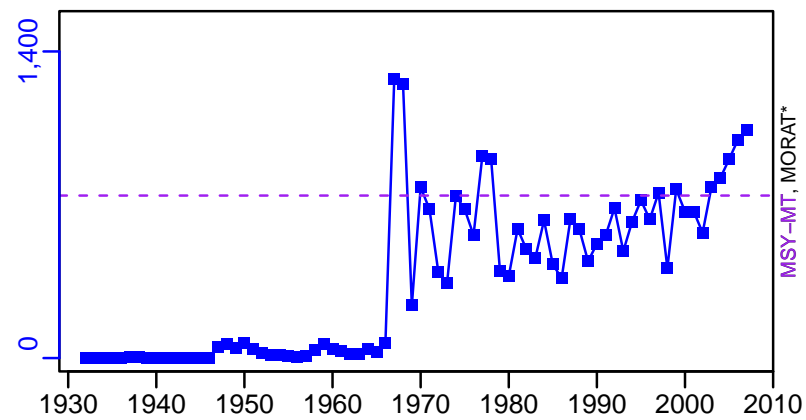
R-E00 (1932-2007-CORDUE)



Tarakihi Sub-Antarctic [TARAKNZ]

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

TAC*, Cpair*, Cadv*



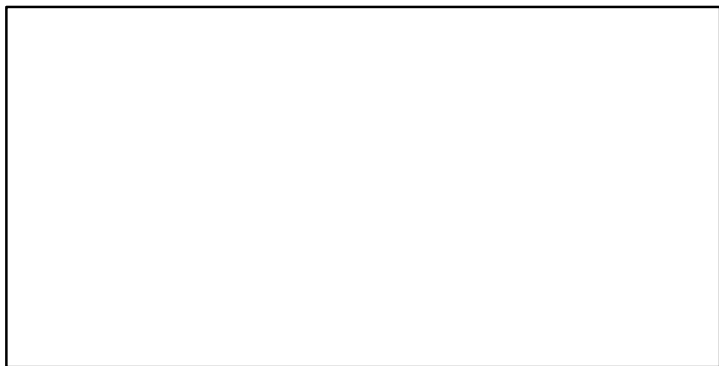
survB*



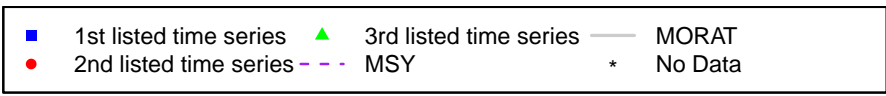
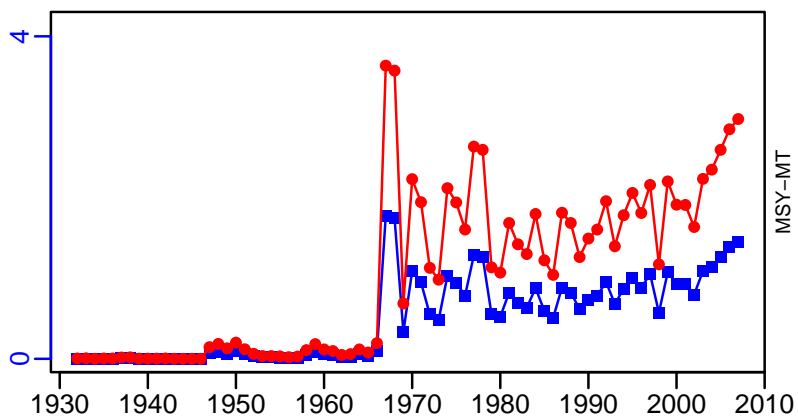
CPUE*



EFFORT*



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



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

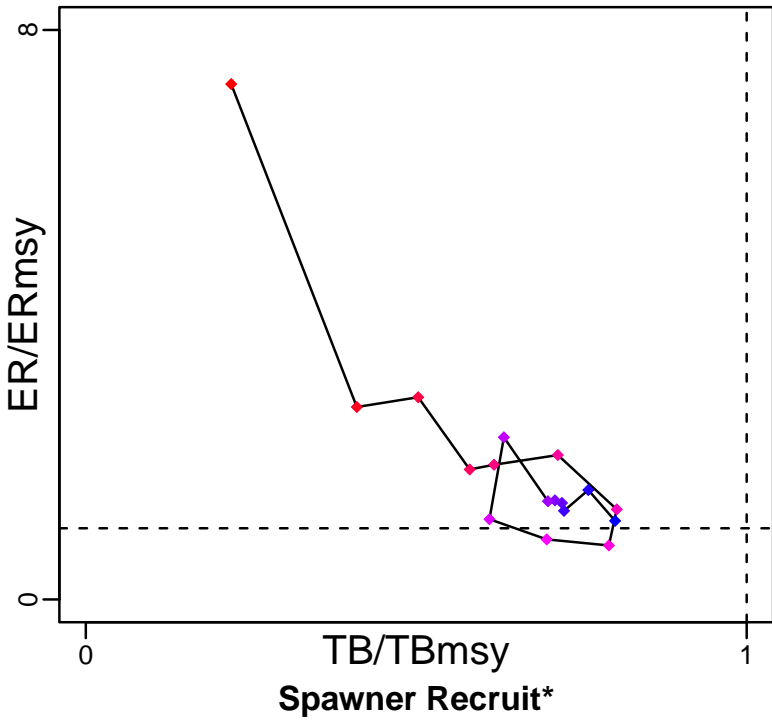
Metadata	
Scientific Name	Galeoides decadactylus
Current Assess ID	FAO-DR-THREADCWACIV-BEN-1990-2006-CHING
Area	Central West Africa Cote Divoire-Benin
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources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

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

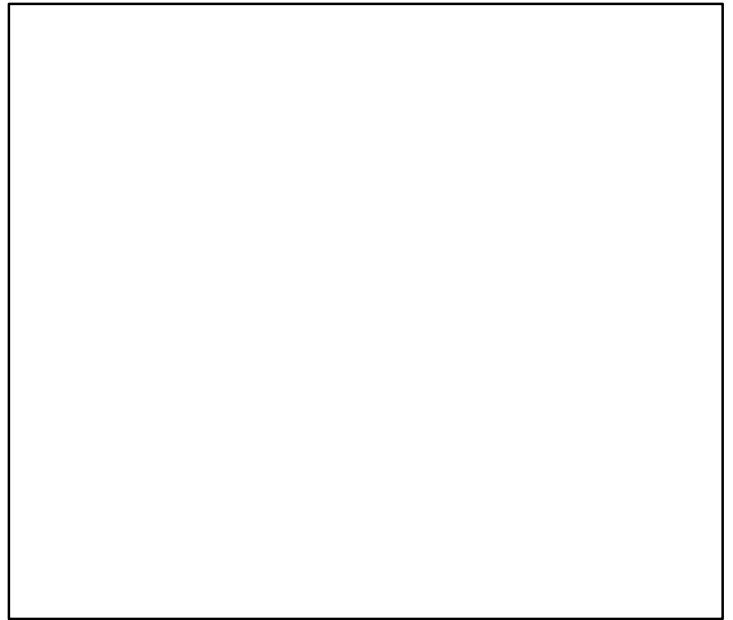
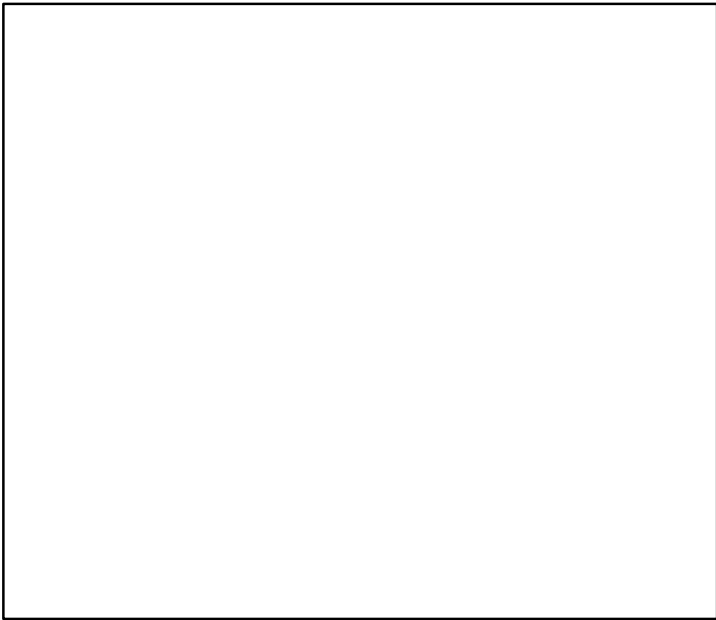
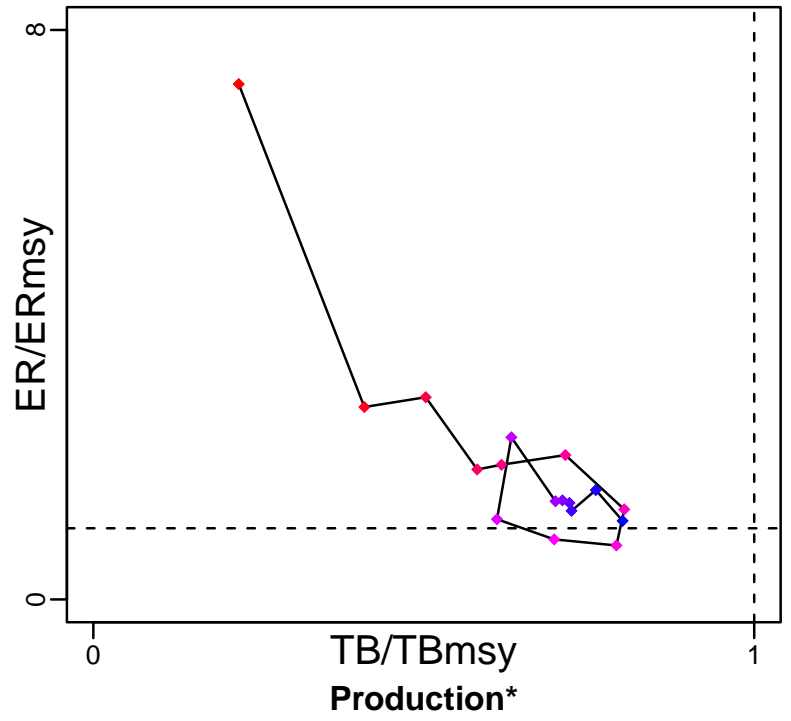
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2006	15	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2006	3980		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt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

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

Kobe MSYpref (1990–2006–CHING)



Kobe MGTpref (1990–2006–CHING)

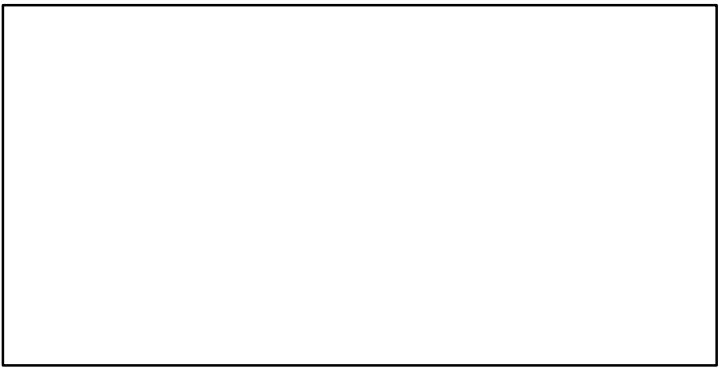
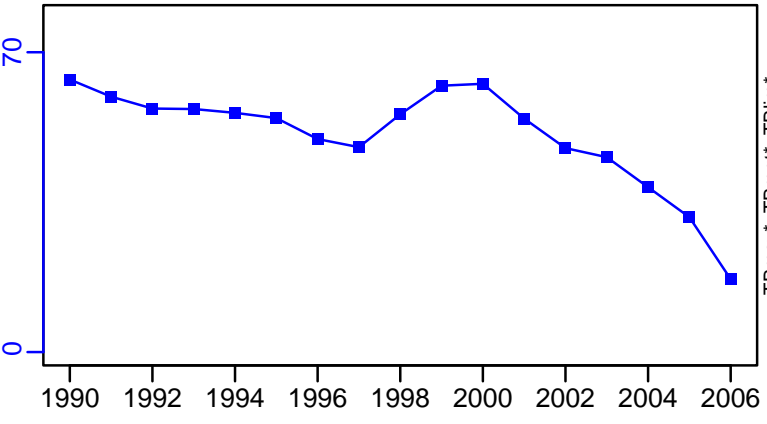


◆ Start Year ◆ End Year * No Data

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

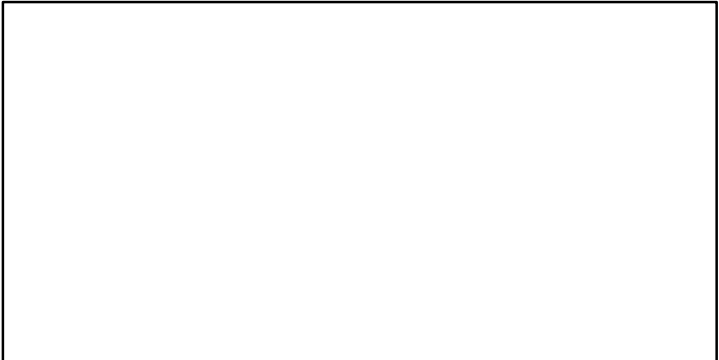
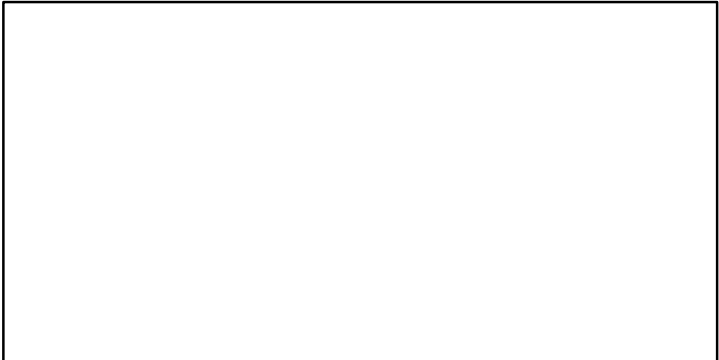
TB-index (1990–2006–CHING)

SSB*



TN *

F*



ER*

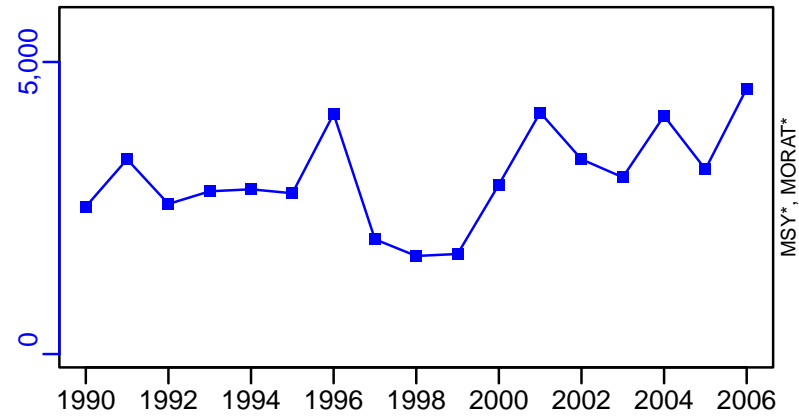
Recruits*



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

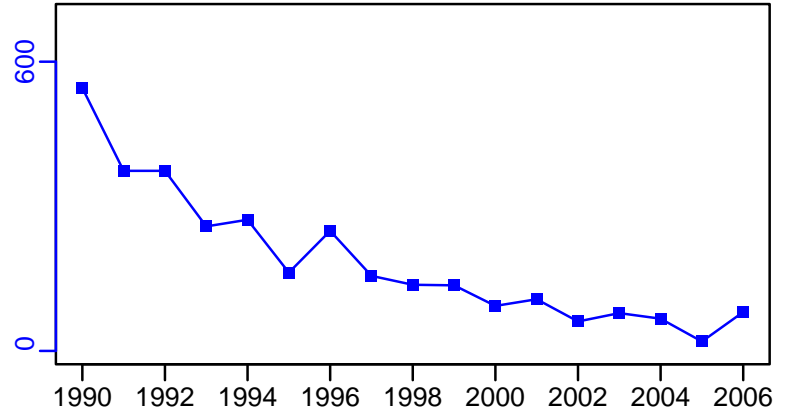
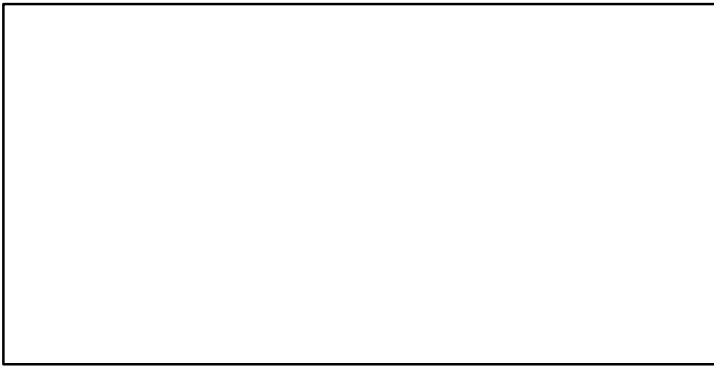
TC–MT, TL*, RecC* (1990–2006–CHING)

TAC*, Cpair*, Cadv*



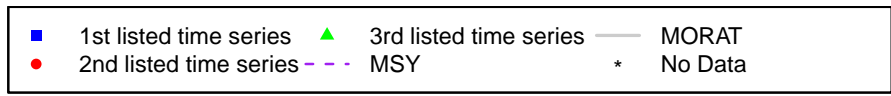
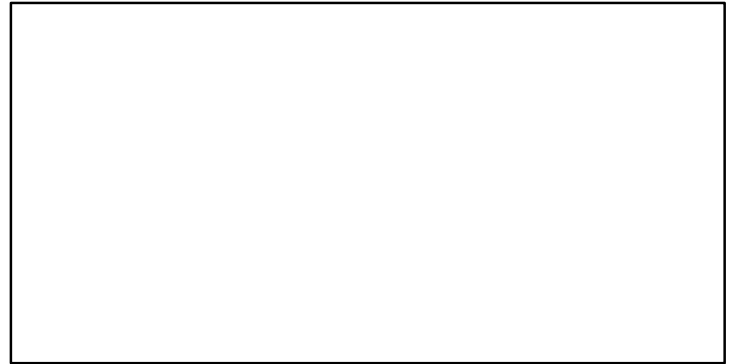
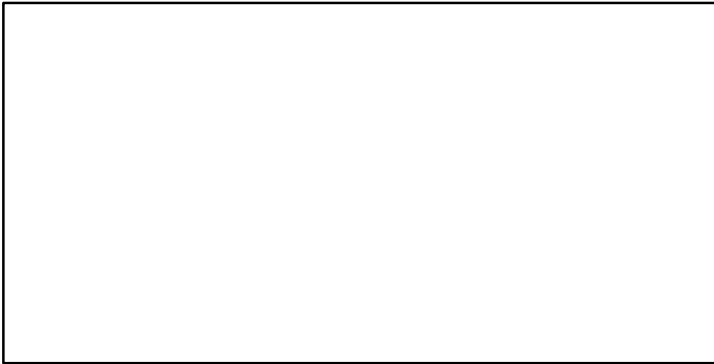
survB*

CPUE–kg/day (1990–2006–CHING)



EFFORT*

CdivMSY*



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

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

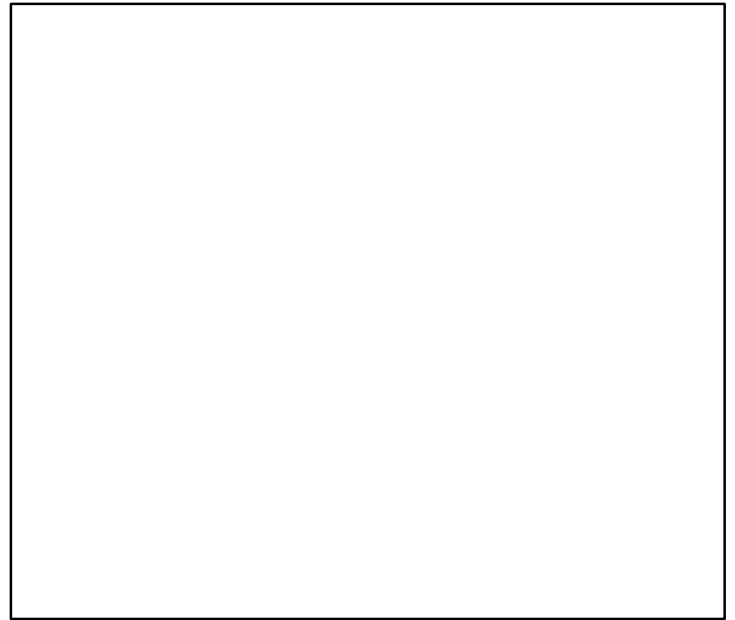
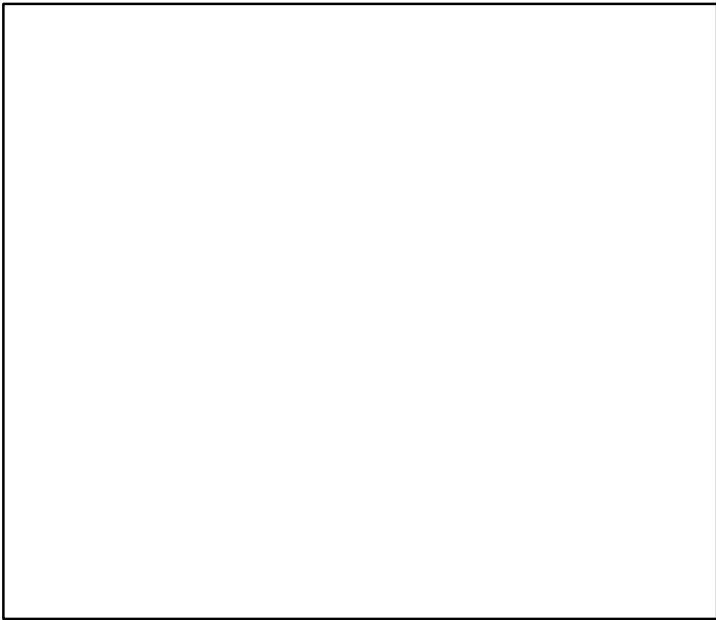
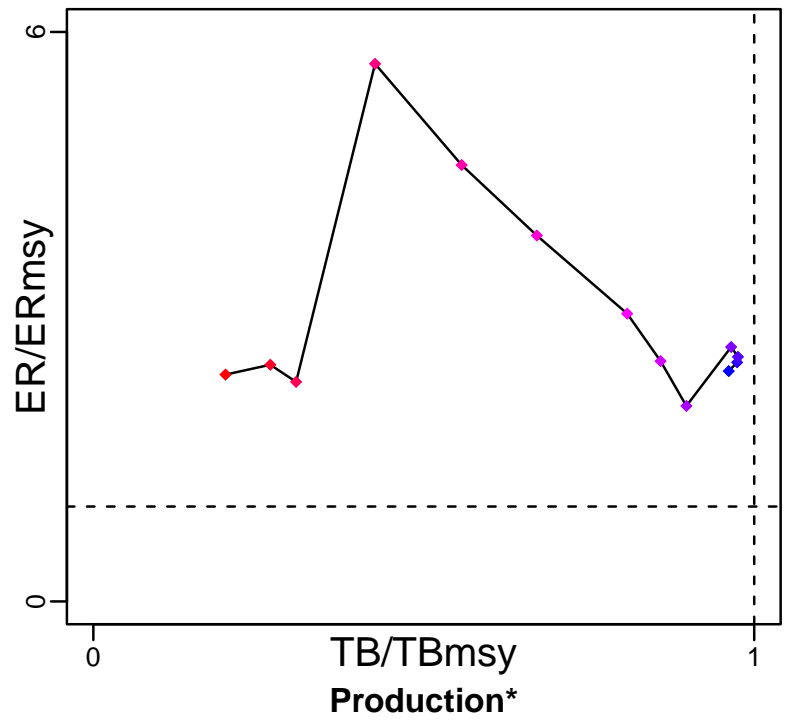
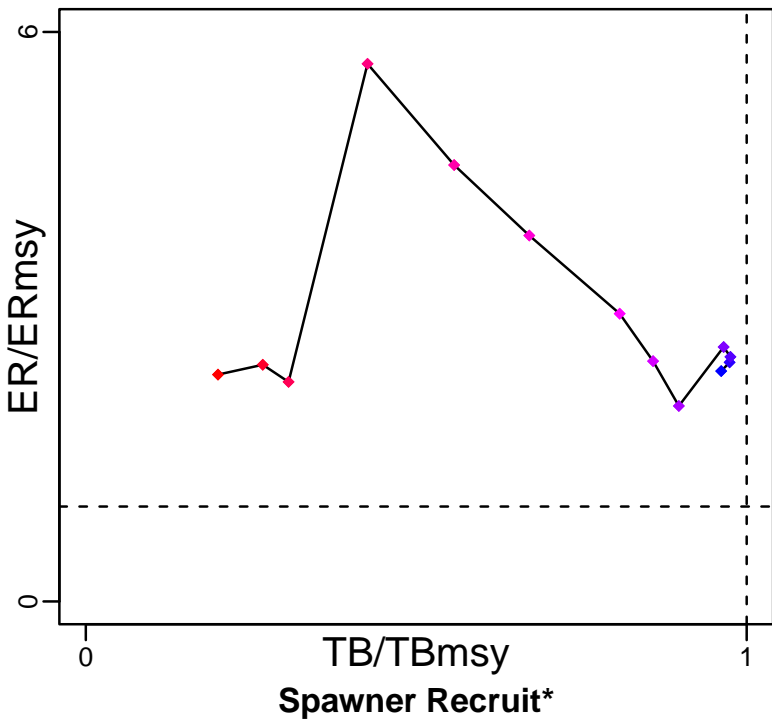
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

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

Kobe MSYpref (1990–2007–CHING)

Kobe MGTpref (1990–2007–CHING)

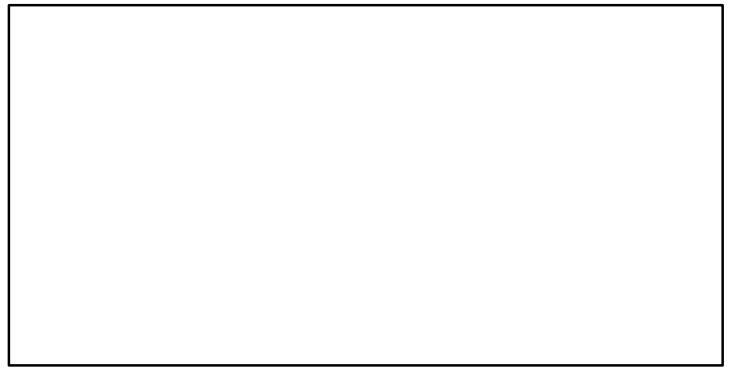
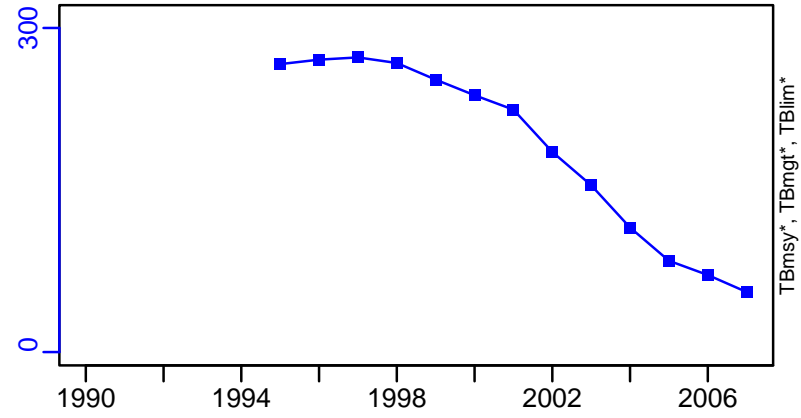


◆ Start Year ◆ End Year * No Data

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

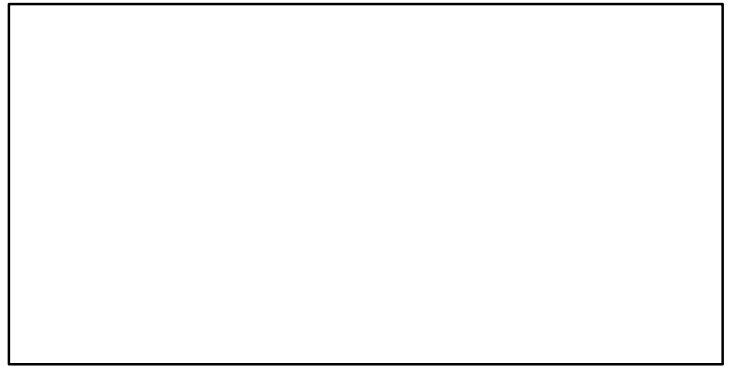
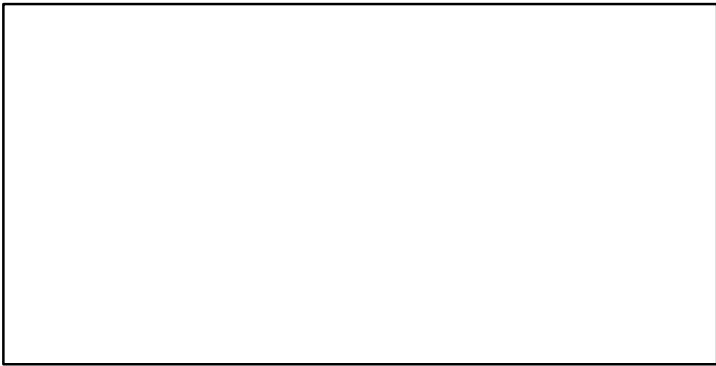
TB-index (1990–2007–CHING)

SSB*



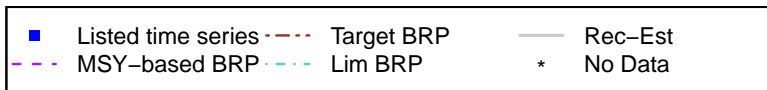
TN *

F*



ER*

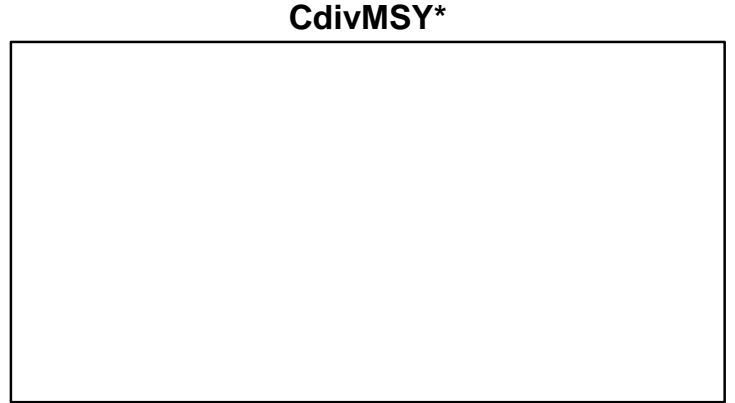
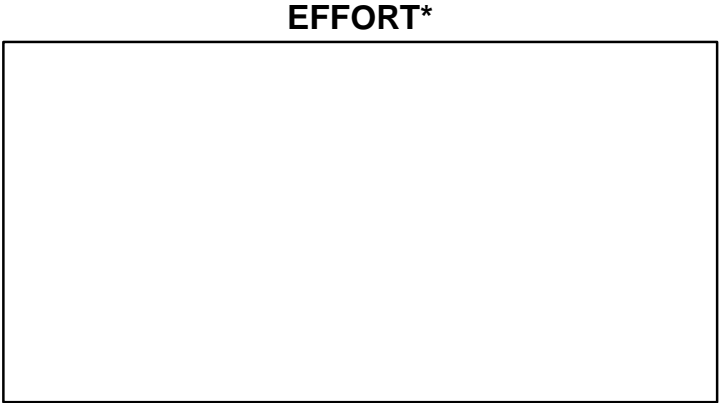
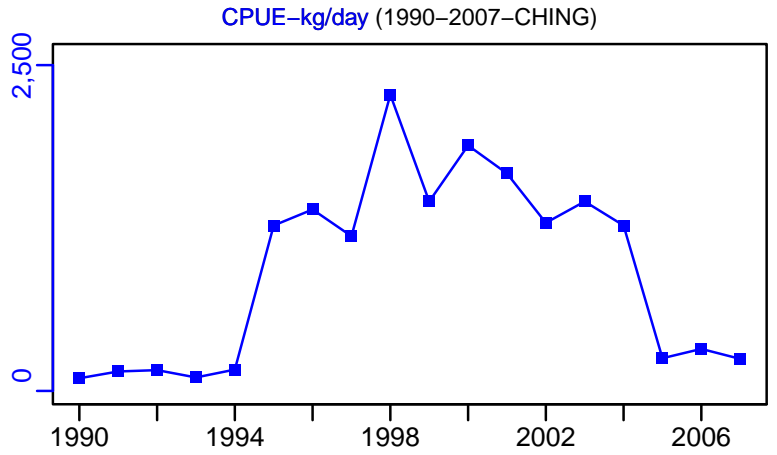
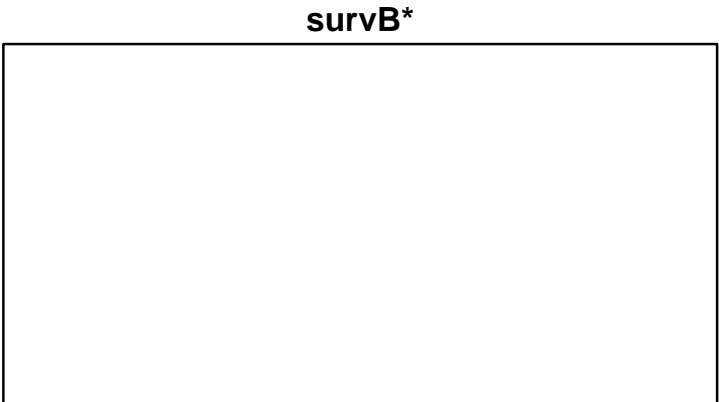
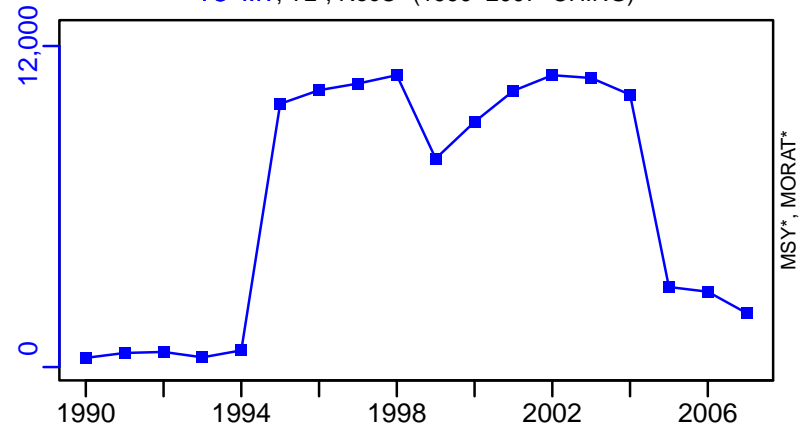
Recruits*



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

TC–MT, TL*, RecC* (1990–2007–CHING)

TAC*, Cpair*, Cadv*



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

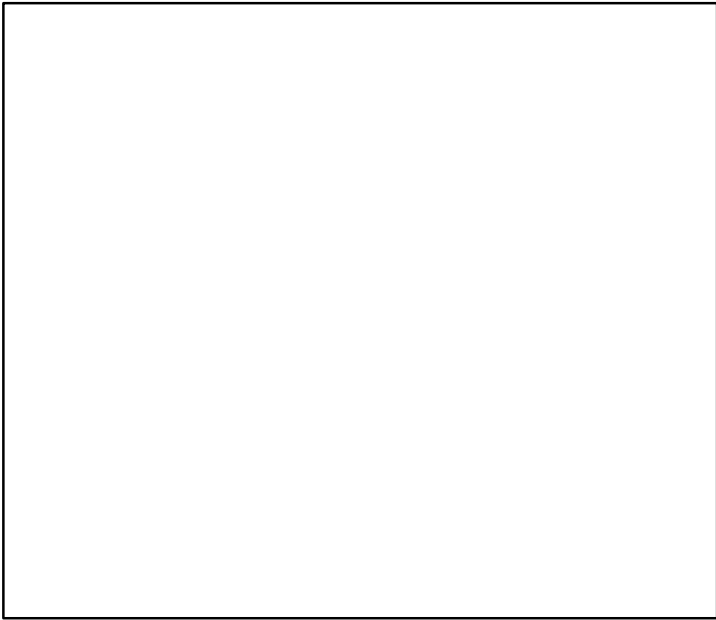
Threadfin Central West Africa Guinea-Liberia [THREADCWAGIN-LBR]

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

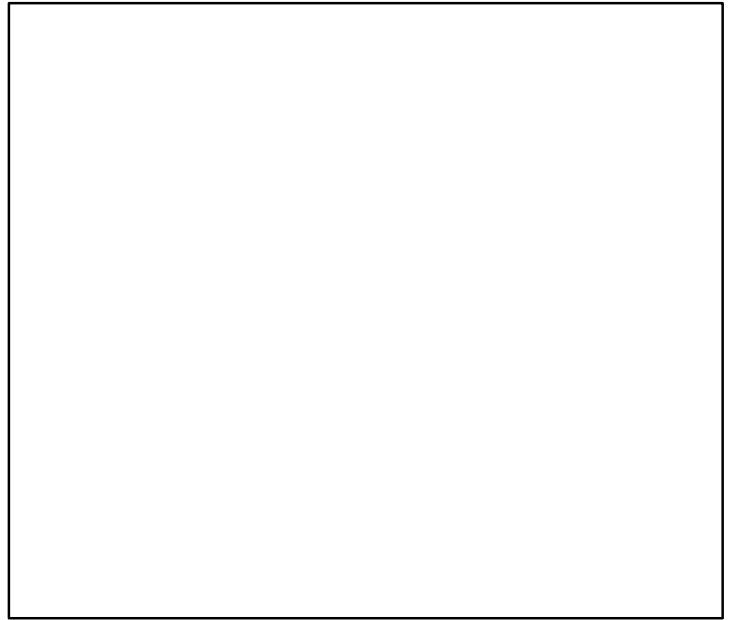
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

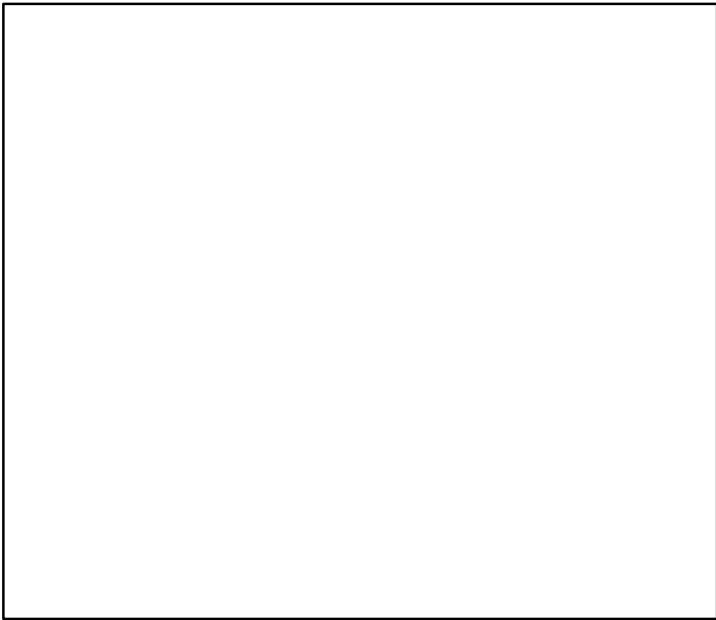
Kobe MSY*



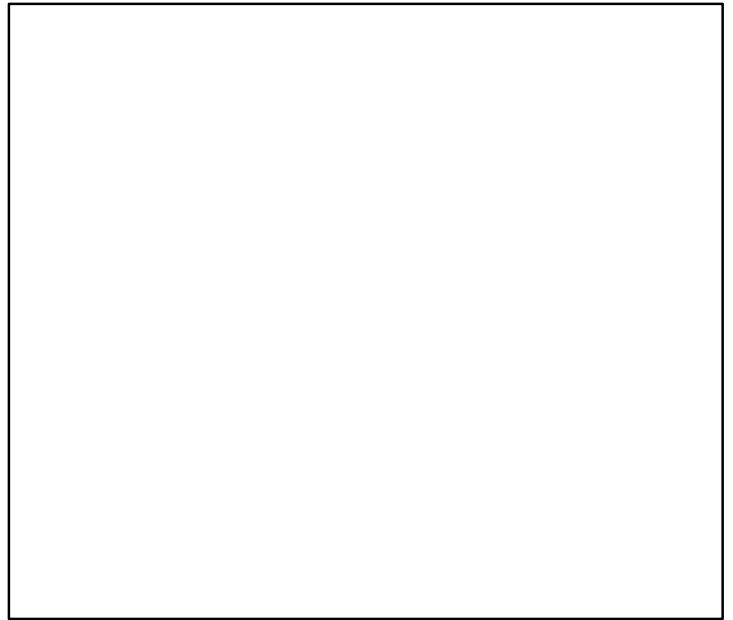
Kobe MGT*



Spawner Recruit*



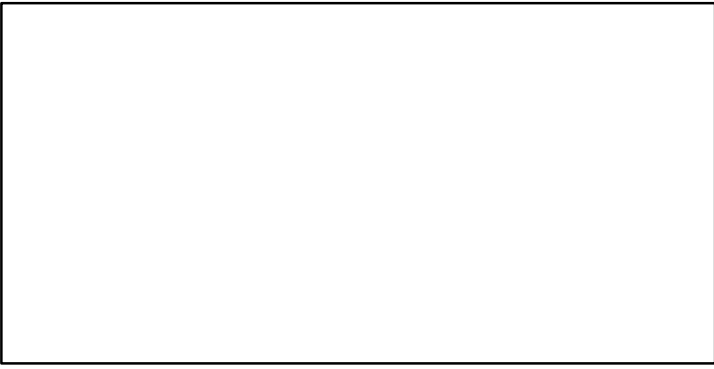
Production*



◆ Start Year ◆ End Year * No Data

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

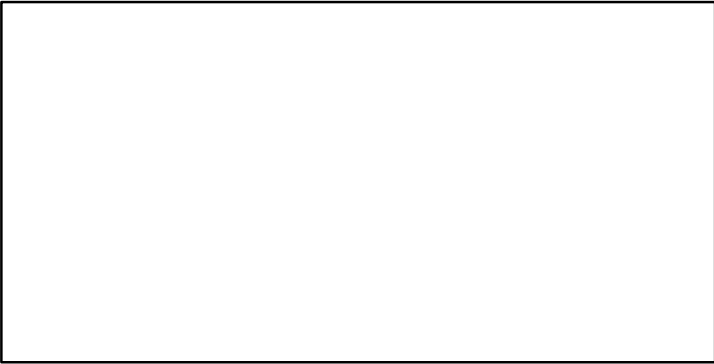
TB*



SSB*



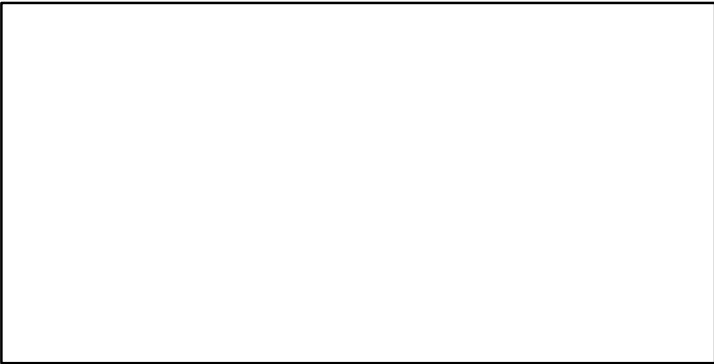
TN *



F*



ER*



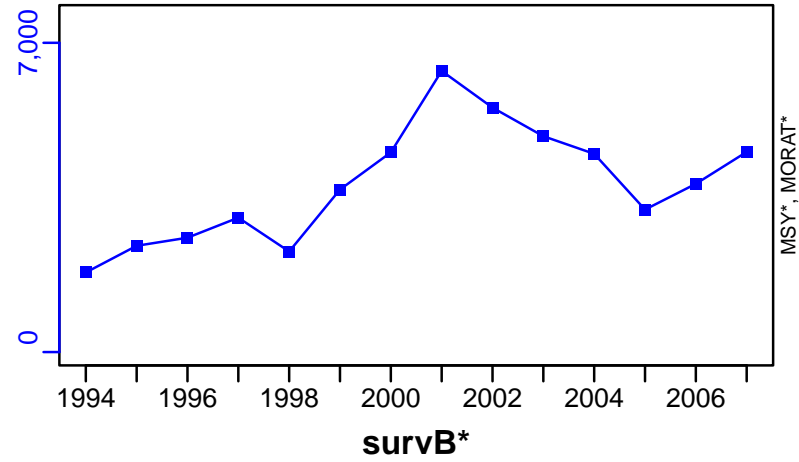
Recruits*



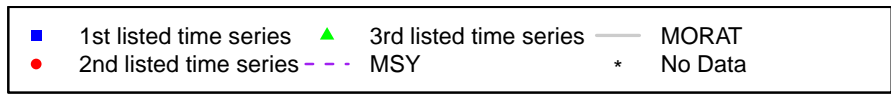
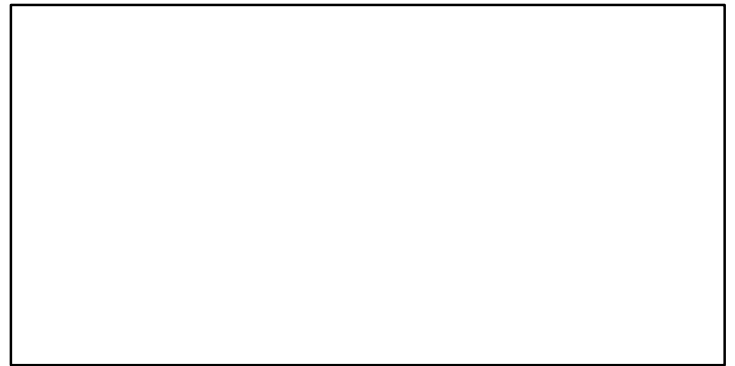
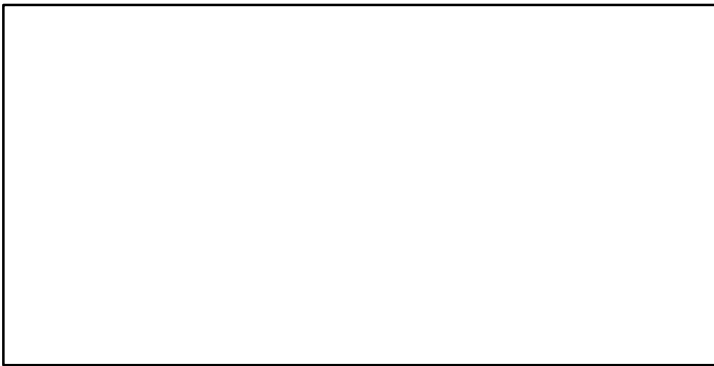
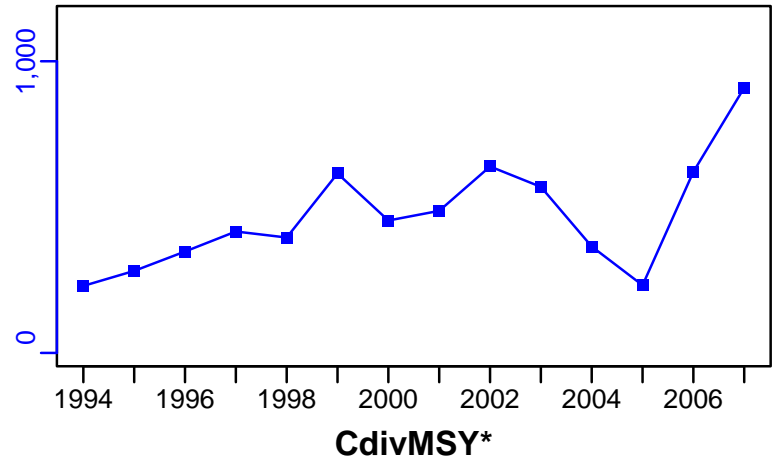
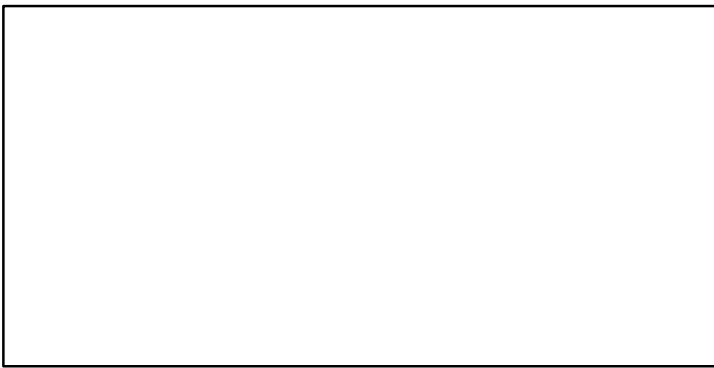
Threadfin Central West Africa Guinea-Liberia [THREADCWAGIN-LBR]

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

TAC*, Cpair*, Cadv*



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



Tilefish Gulf of Mexico [TILEGM]

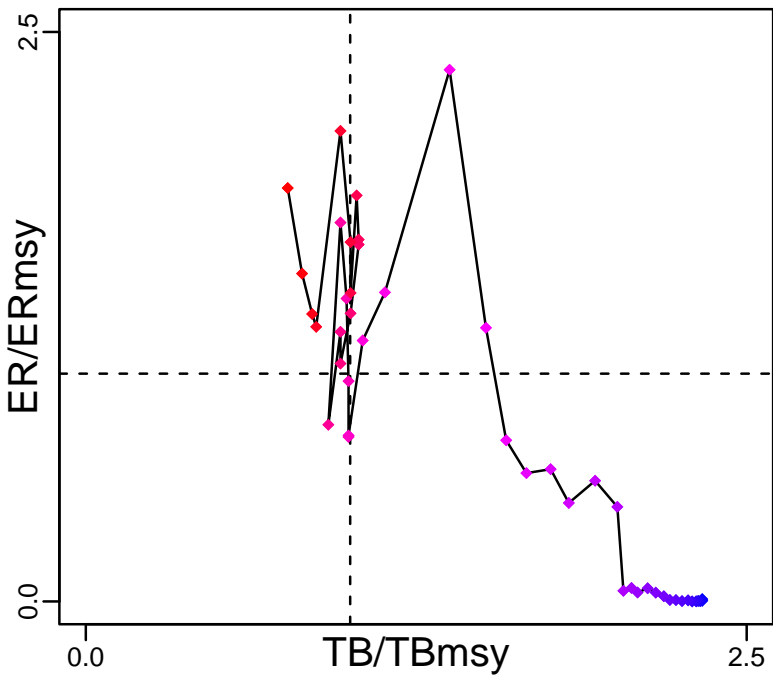
Metadata	
Scientific Name	Lopholatilus chamaeleonticeps
Current Assess ID	SEFSC-TILEGM-1965-2009-HIVELY
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2009

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

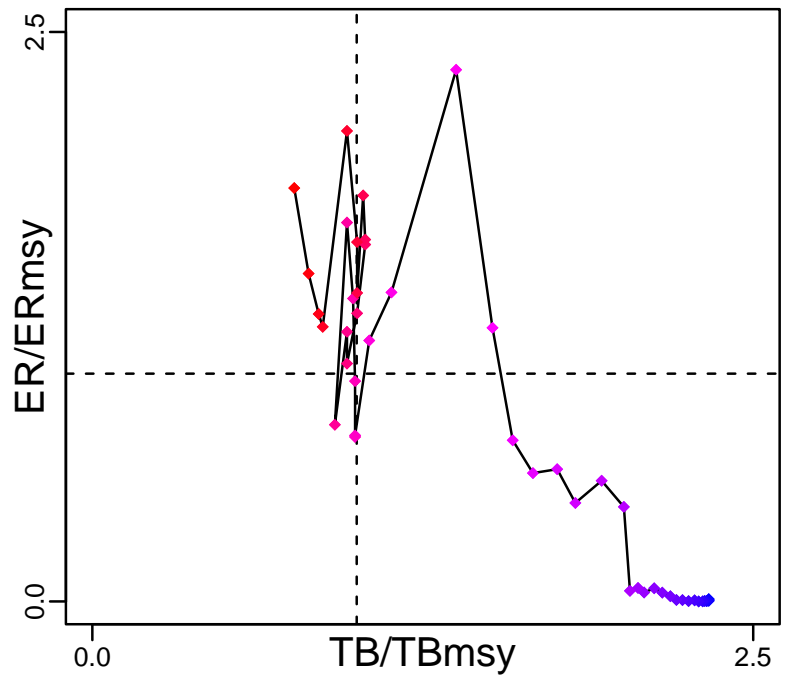
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	999	-	-
SSB	SSB-FemaleGonadMT	2009	17	Females	2+
TN	-	-	-	-	-
R	R-E00	2009	204,000	-	-
F	F-1/yr	2009	0.17	-	-
ER	ER-calc-ratio	2009	0.186	-	-
TC	-	-	-	-	-
TL	TL-MT	2009	186	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-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

Tilefish Gulf of Mexico [TILEGM]

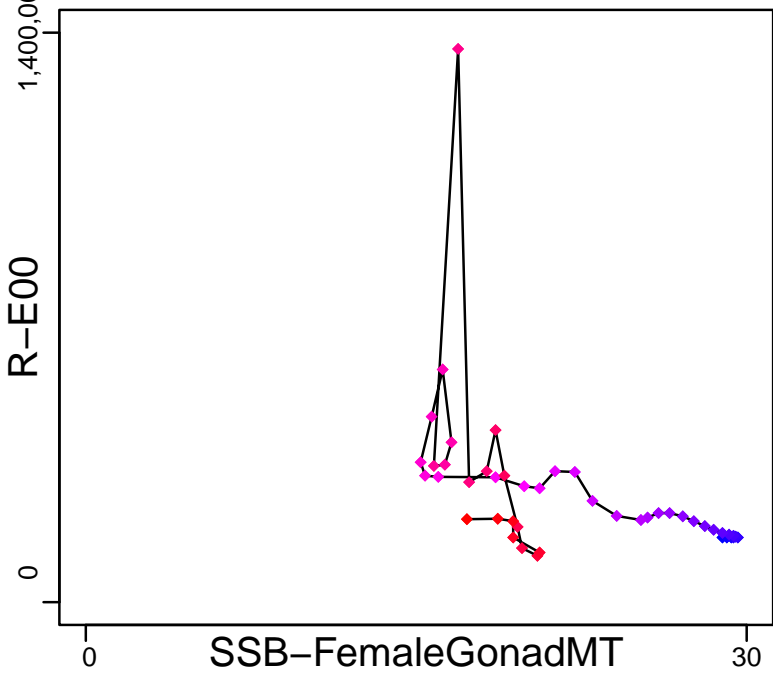
Kobe MSYpref (1965–2009–HIVELY)



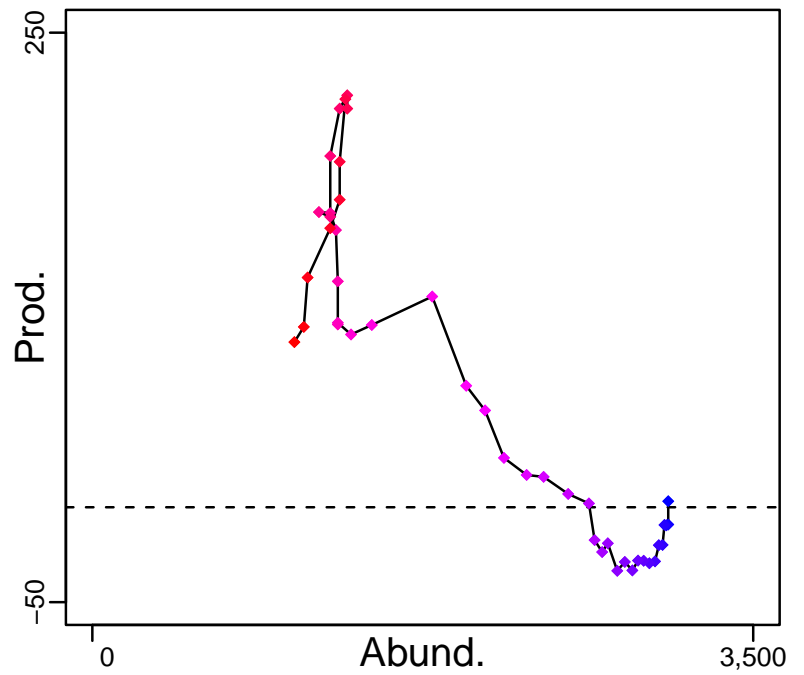
Kobe MGTpref (1965–2009–HIVELY)



Spawner Recruit (1965–2009–HIVELY)



Production (1965–2009–HIVELY)

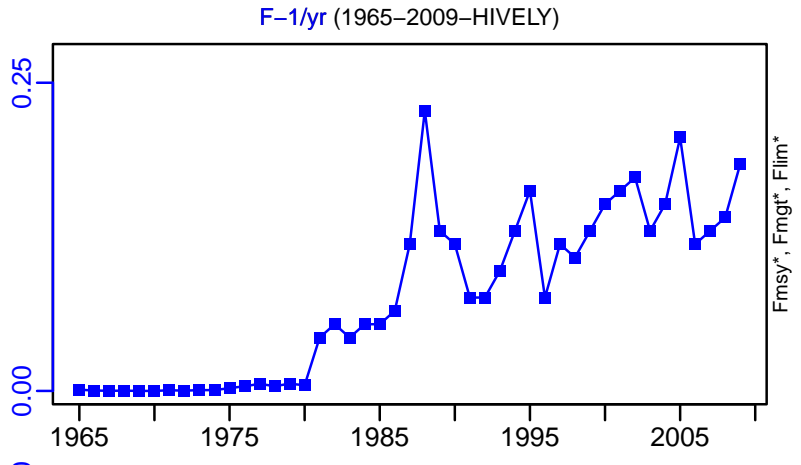
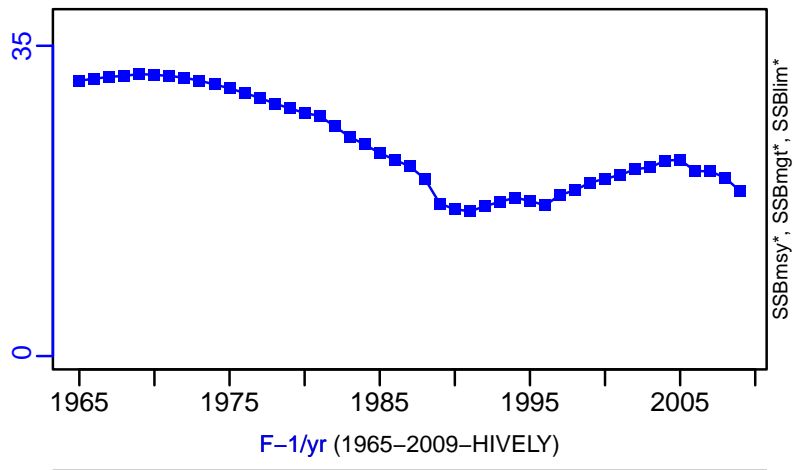
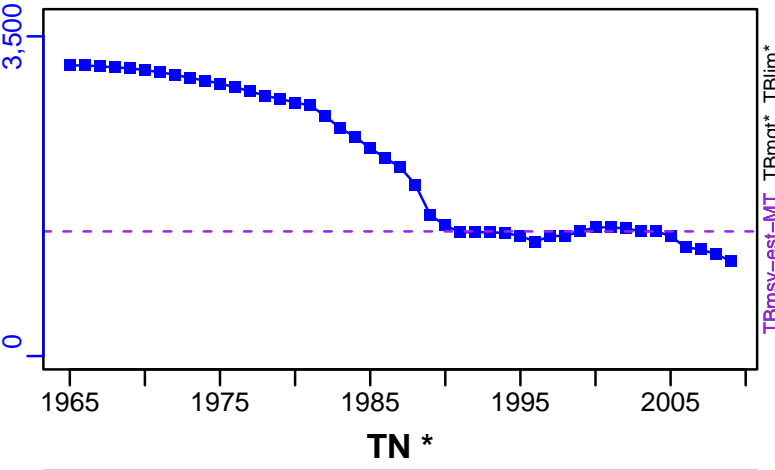


◆ Start Year ◆ End Year * No Data

Tilefish Gulf of Mexico [TILEGM]

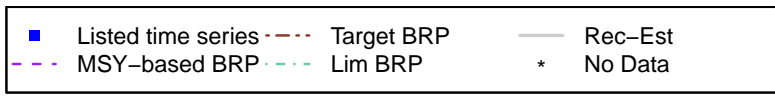
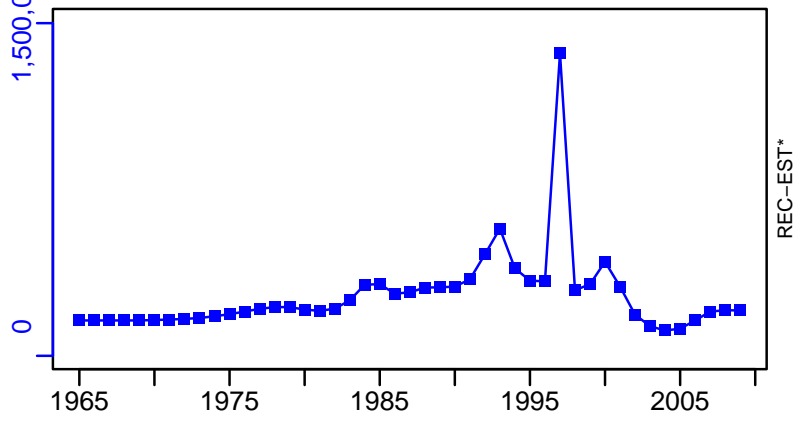
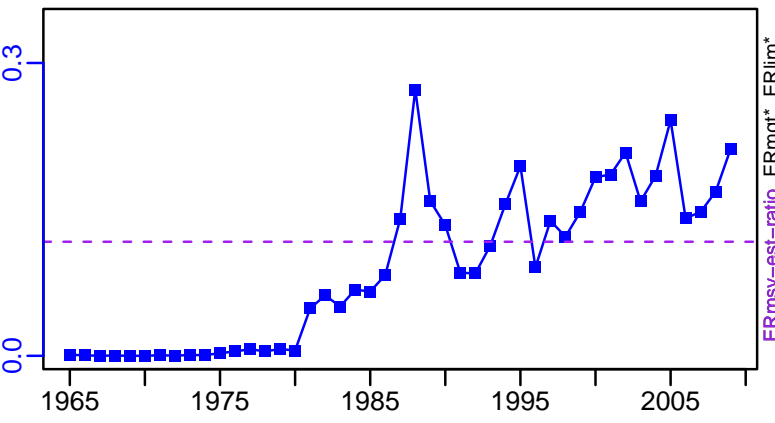
TB-MT (1965-2009-HIVELY)

SSB-FemaleGonadMT (1965-2009-HIVELY)



ER-calc-ratio (1965-2009-HIVELY)

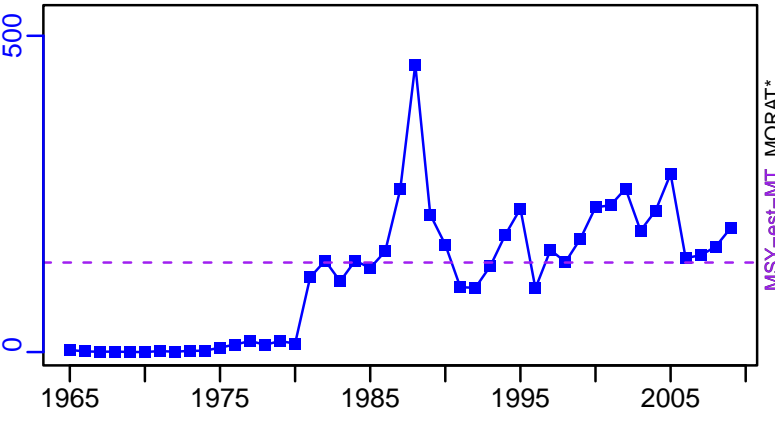
R-E00 (1965-2009-HIVELY)



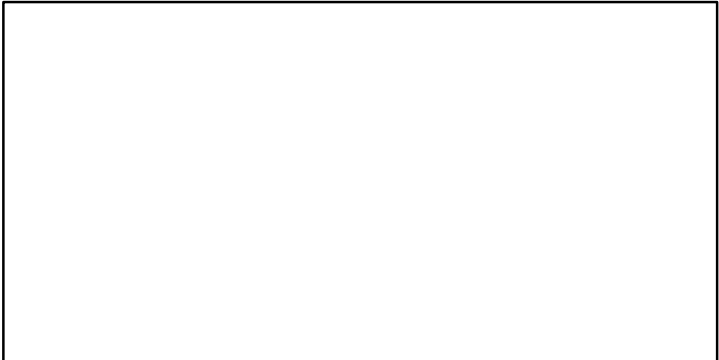
Tilefish Gulf of Mexico [TILEGM]

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

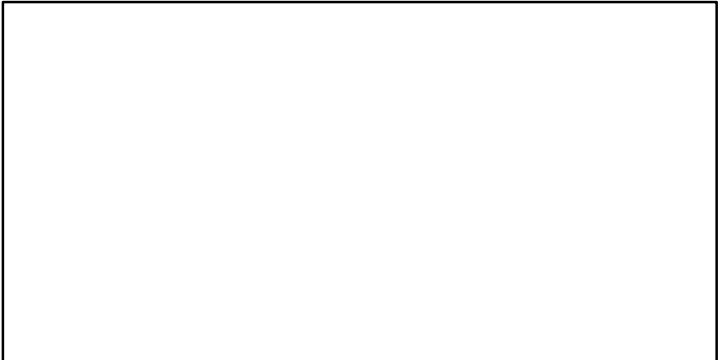
TAC*, Cpair*, Cadv*



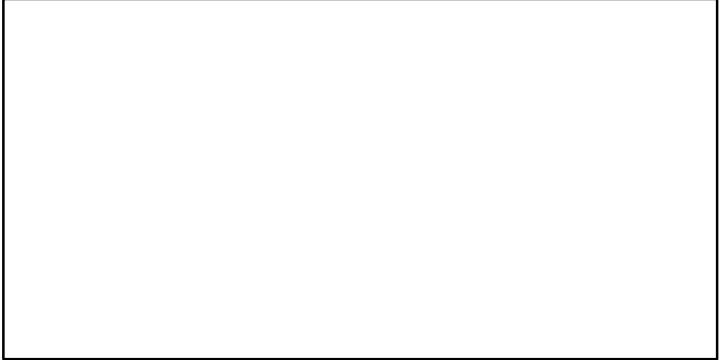
survB*



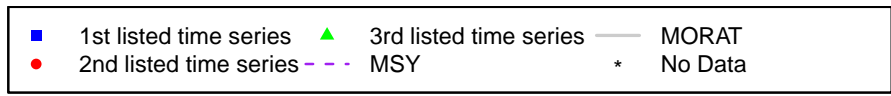
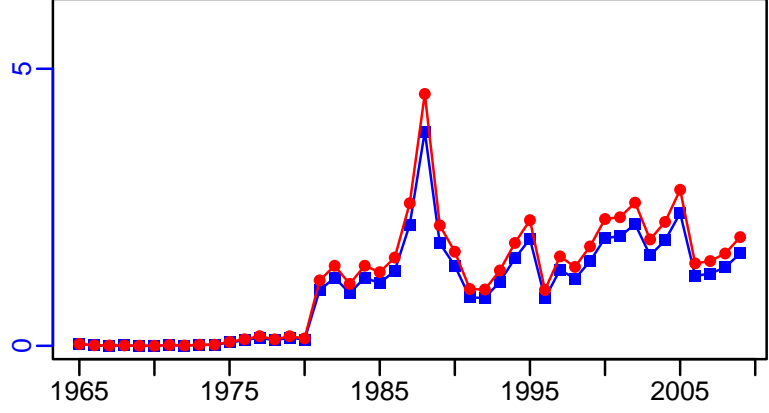
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1965-2009-HIVELY)



Tilefish Mid-Atlantic Coast [TILEMATLC]

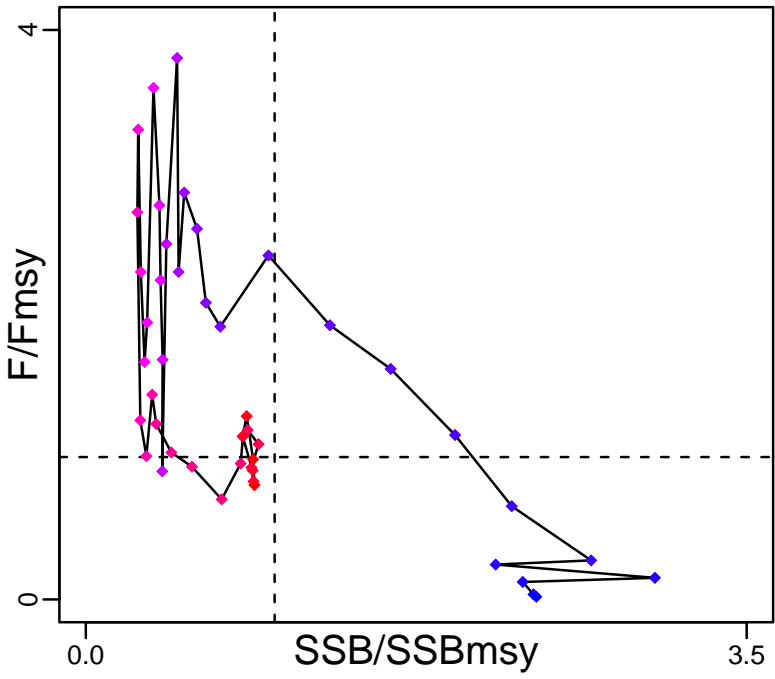
Metadata	
Scientific Name	Lopholatilus chamaeleonticeps
Current Assess ID	NEFSC-TILEMATLC-1970-2016-SISIMP2021
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012, 2016

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	-	-	-

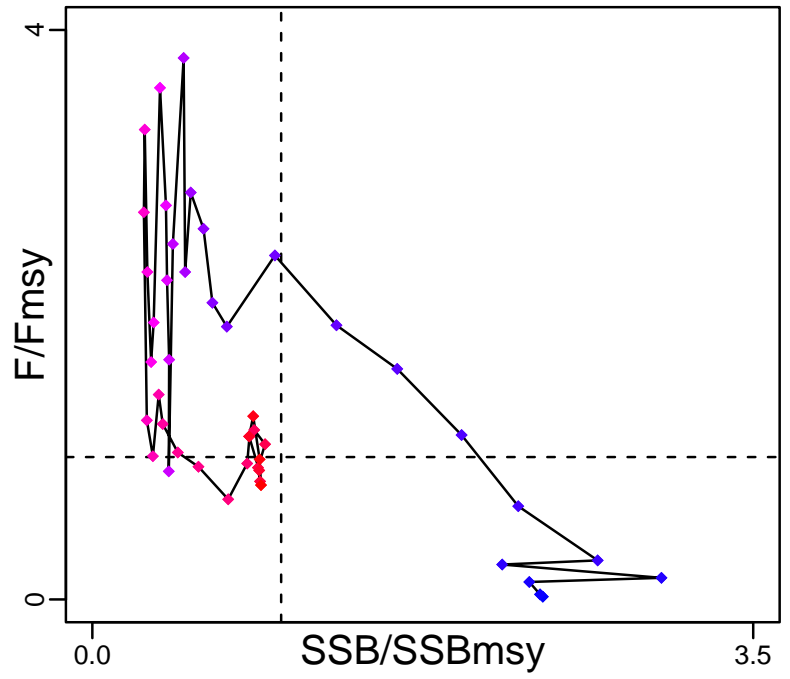
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	8479	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,184,000	-	1
F	F-1/yr	2016	0.249	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	502		
TL	TL-MT	2012	834		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.893		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.803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

Tilefish Mid-Atlantic Coast [TILEMATLC]

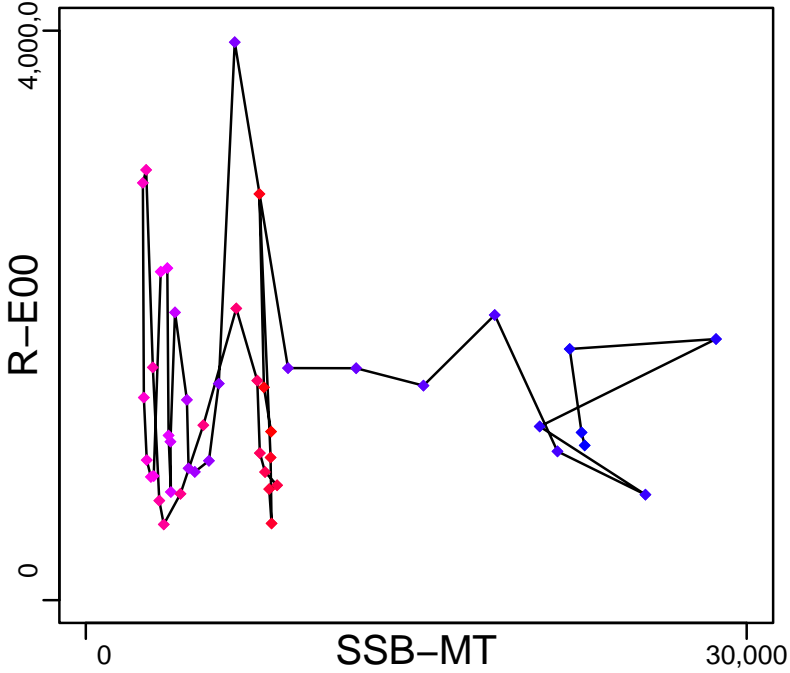
Kobe MSYpref (1970-2016-SISIMP2021)



Kobe MGTpref (1970-2016-SISIMP2021)



Spawner Recruit (1970-2016-SISIMP2021)



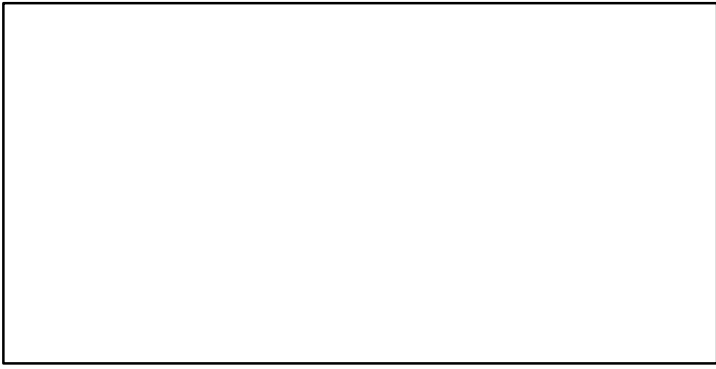
Production*



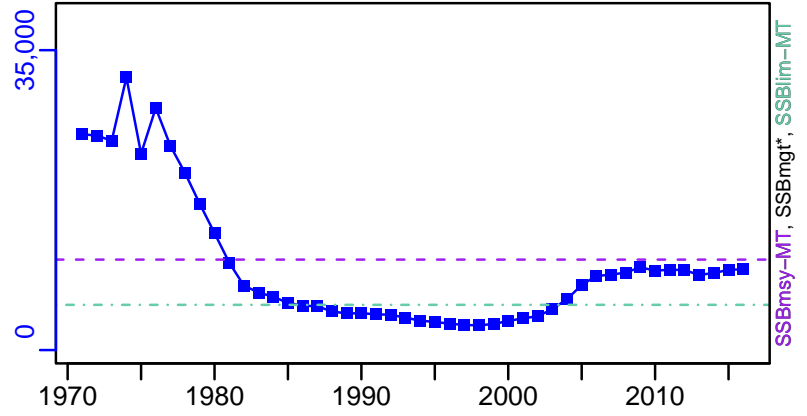
◆ Start Year ◆ End Year * No Data

Tilefish Mid-Atlantic Coast [TILEMATLC]

TB*



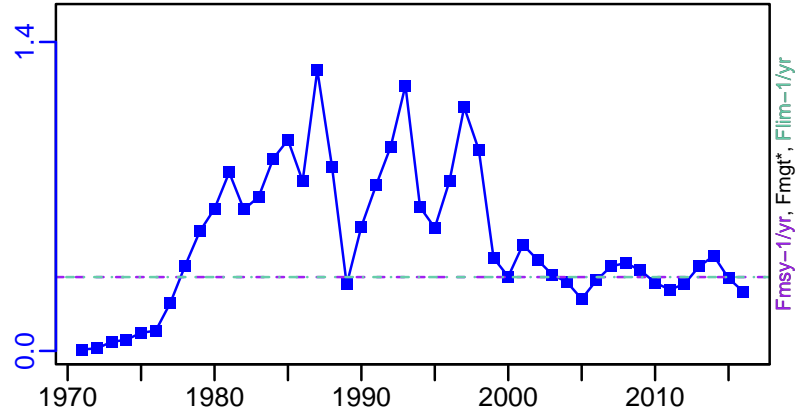
SSB-MT (1970-2016-SISIMP2021)



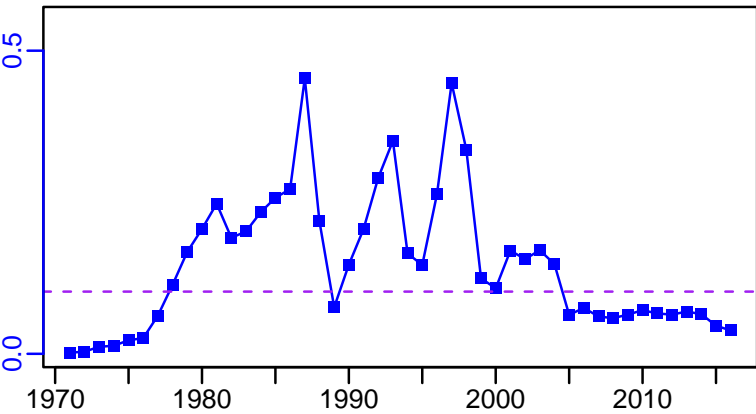
TN *



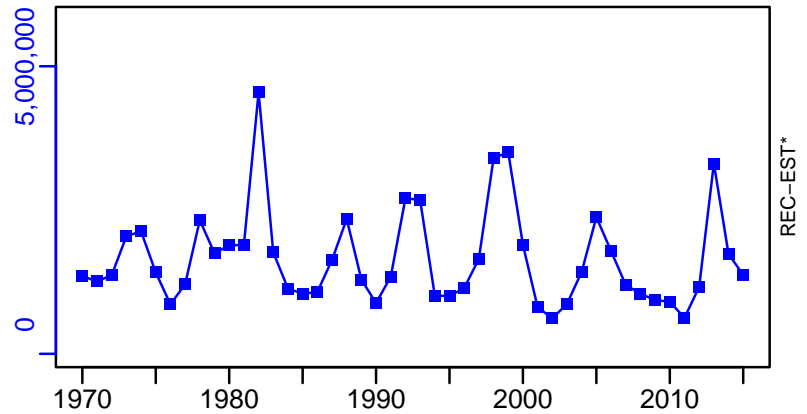
F-1/yr (1970-2016-SISIMP2021)



ER-calc-ratio (1970-2016-SISIMP2021)



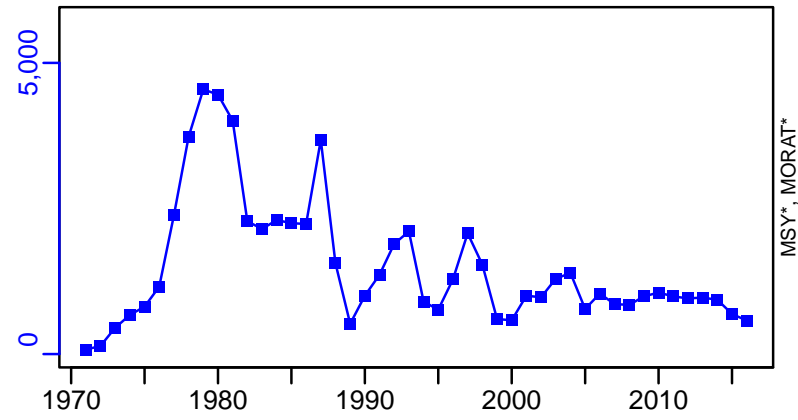
R-E00 (1970-2016-SISIMP2021)



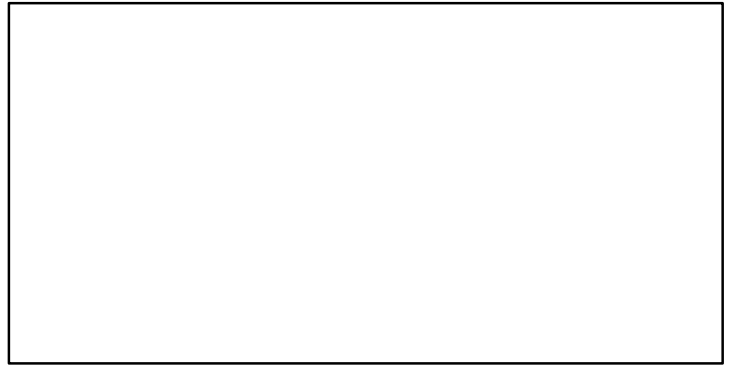
Tilefish Mid-Atlantic Coast [TILEMATLC]

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

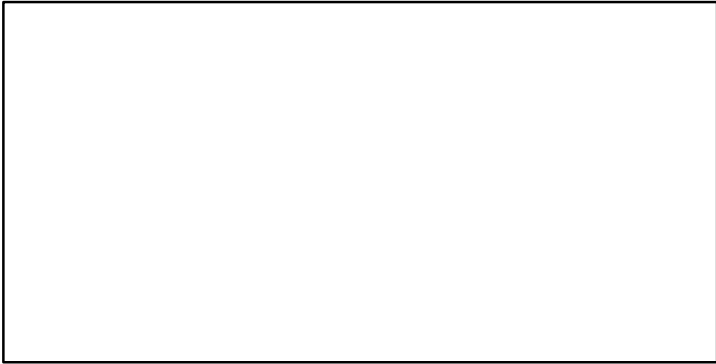
TAC*, Cpair*, Cadv*



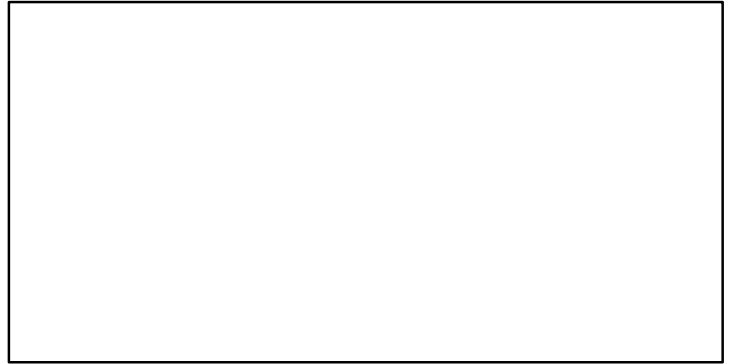
MSY*, MORAT*



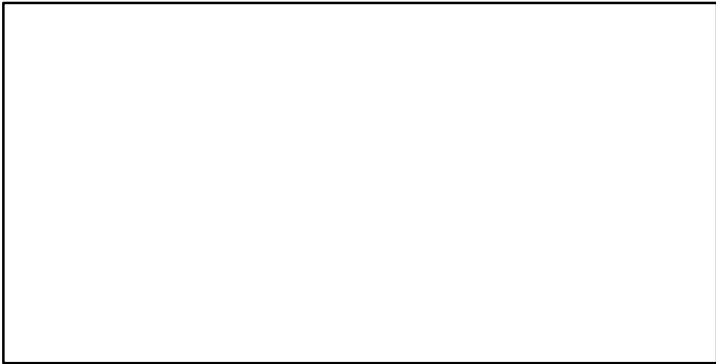
survB*



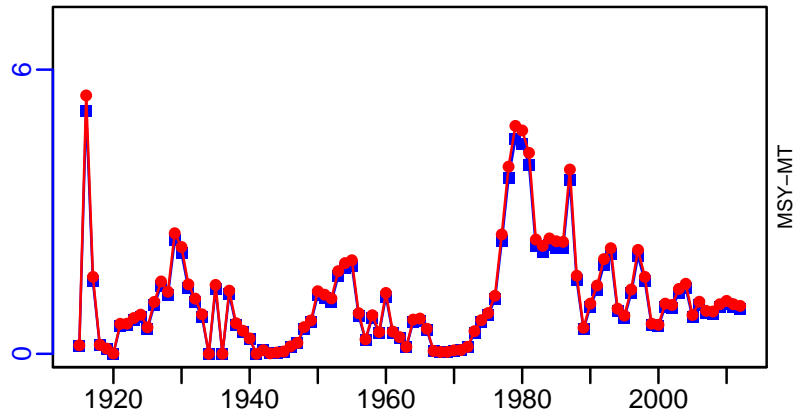
CPUE*



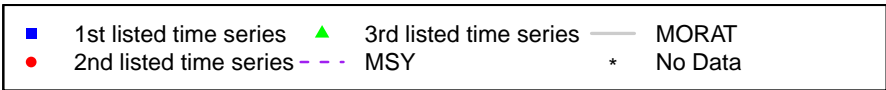
EFFORT*



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



MSY-MT



Tilefish Southern Atlantic coast [TILESATLC]

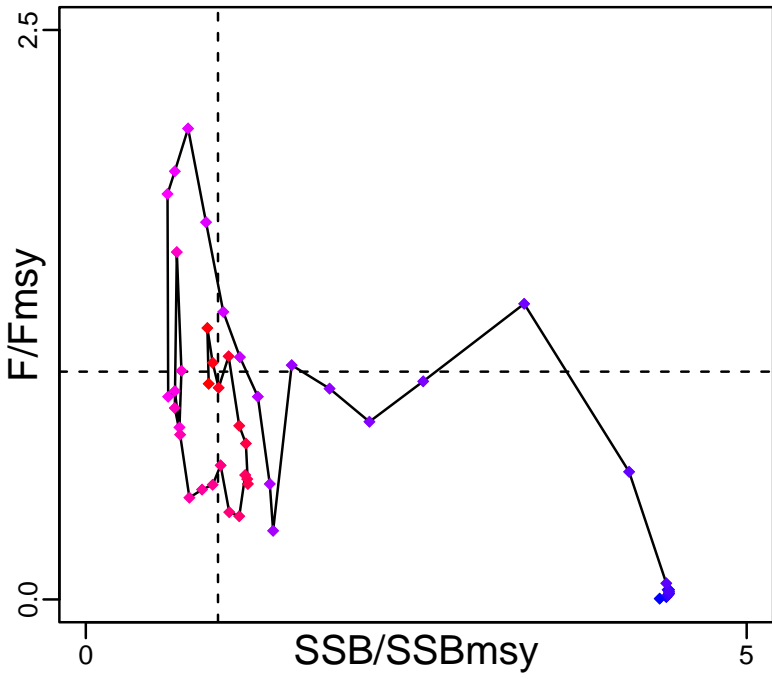
Metadata	
Scientific Name	Lopholatilus chamaeleonticeps
Current Assess ID	SEFSC-TILESATLC-1972-2018-SISIMP2021-2
Area	Southern Atlantic coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2011, 2014, 2018

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

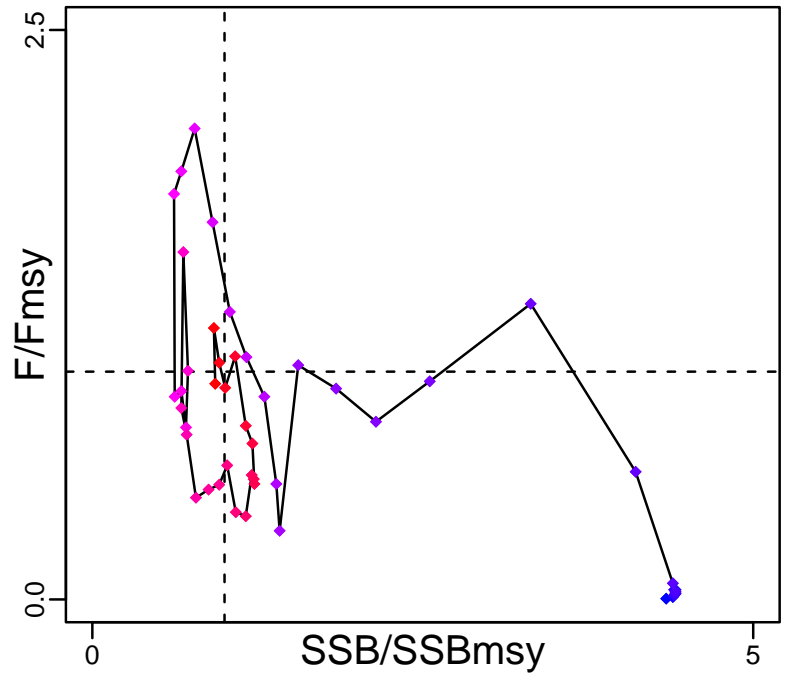
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	5240	-	-
SSB	SSB-FemaleGonadMT	2018	18	-	-
TN	-	-	-	-	-
R	R-E00	2018	308,000	-	1
F	F-1/yr	2018	0.267	-	-
ER	ER-calc-ratio	2011	0.052	-	-
TC	TC-MT	2018	153		
TL	TL-MT	2011	275		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.796		
SSB/SSBmsy	SSB-FemaleGonadMT/SSBmsy-FemaleGonadMT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

Tilefish Southern Atlantic coast [TILESATLC]

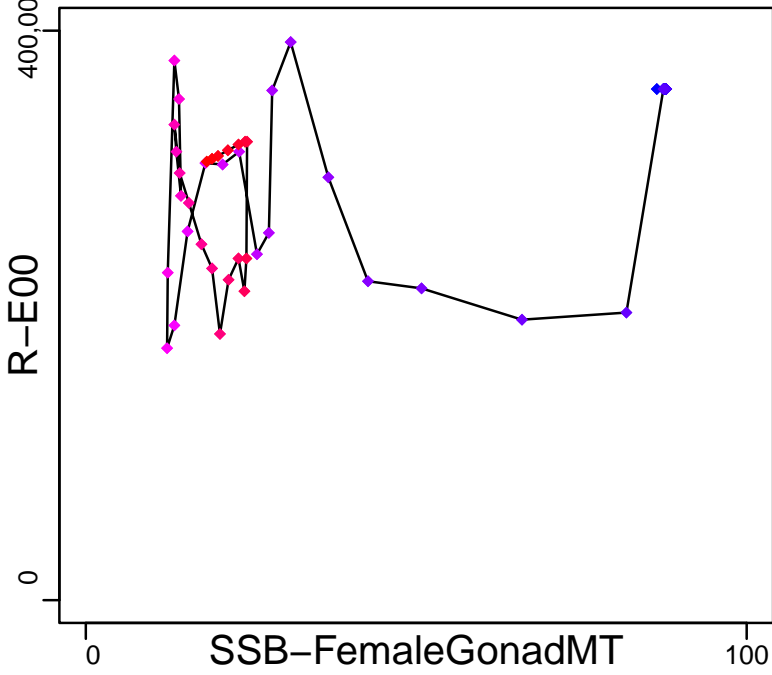
Kobe MSYpref (1972–2018–SISIMP2021–2)



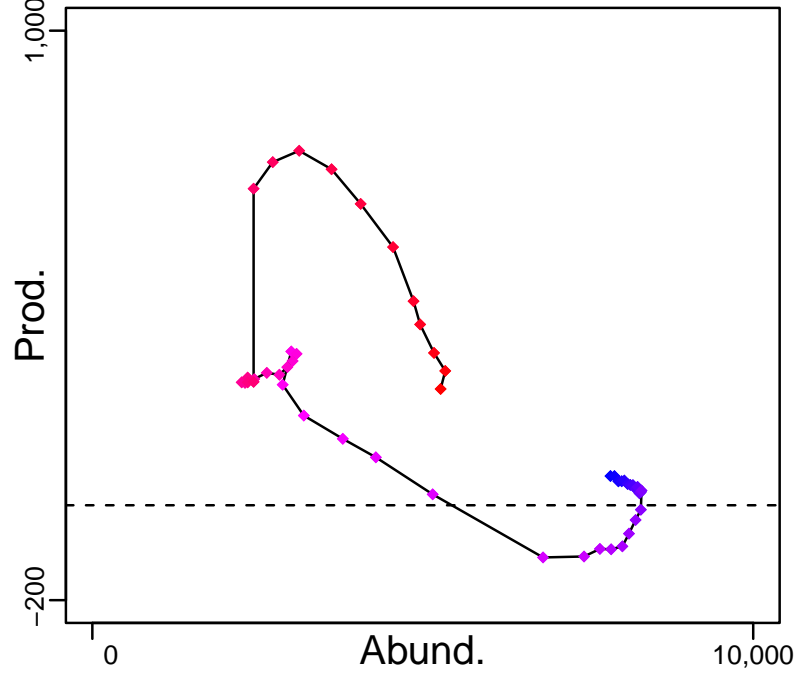
Kobe MGTpref (1972–2018–SISIMP2021–2)



Spawner Recruit (1972–2018–SISIMP2021–2)



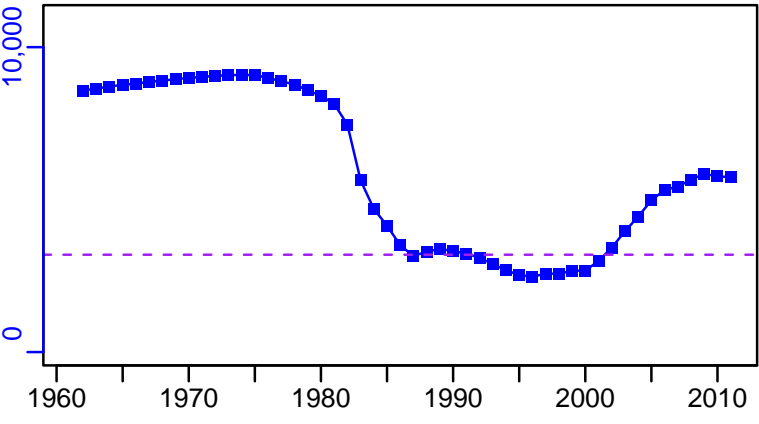
Production (1961–2011–HIVELY)



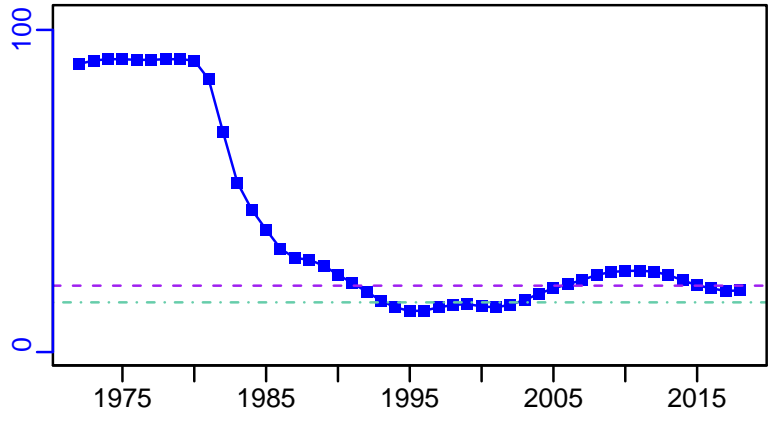
◆ Start Year ◆ End Year * No Data

Tilefish Southern Atlantic coast [TILESATLC]

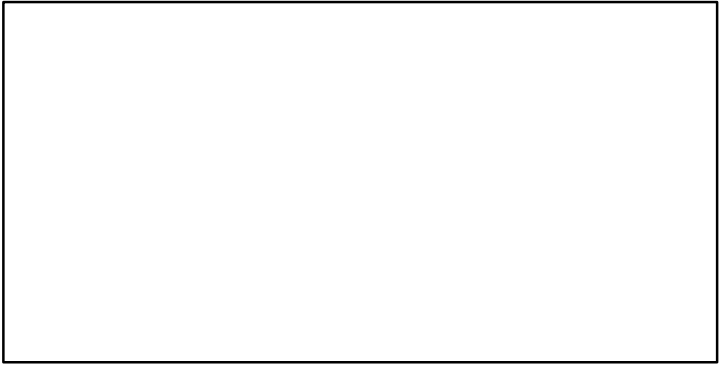
TB-MT (1961-2011-HIVELY)



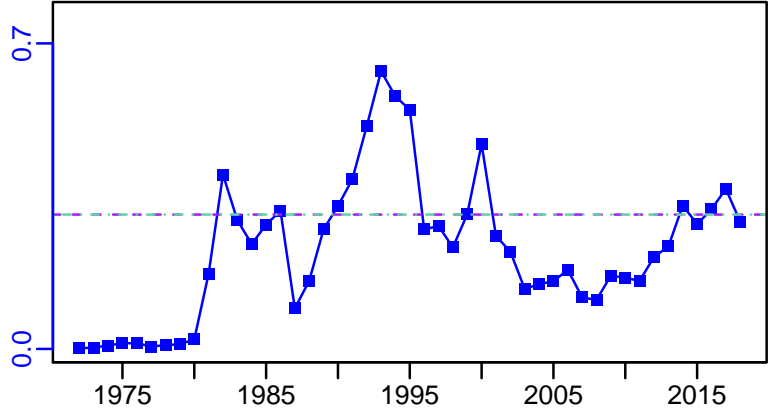
SSB-FemaleGonadMT (1972-2018-SISIMP2021-2)



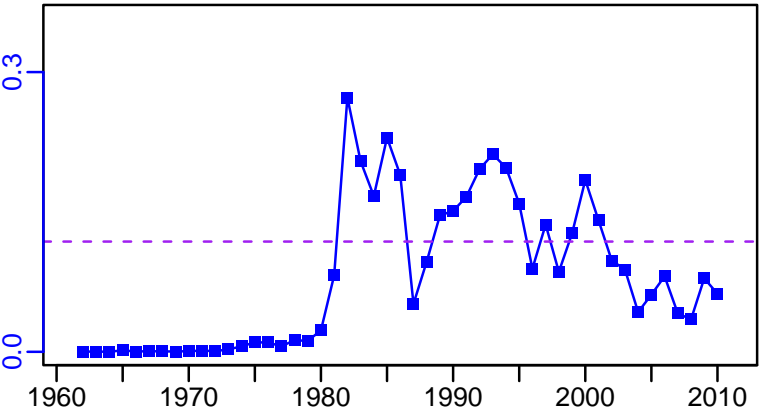
TN *



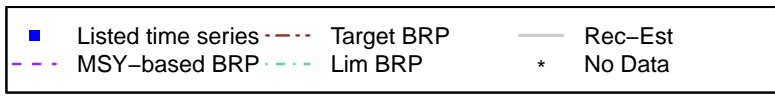
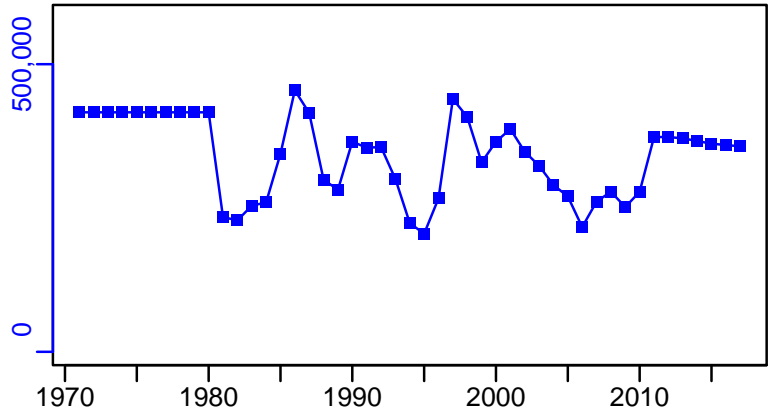
F-1/yr (1972-2018-SISIMP2021-2)



ER-calc-ratio (1961-2011-HIVELY)



R-E00 (1972-2018-SISIMP2021-2)



SSBmsy-FemaleGonadMT, SSBmgt*, SSBlim-FemaleGonadMT

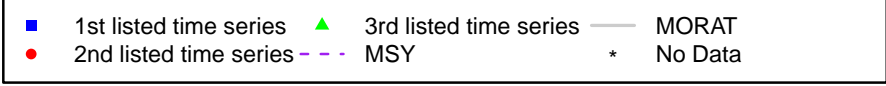
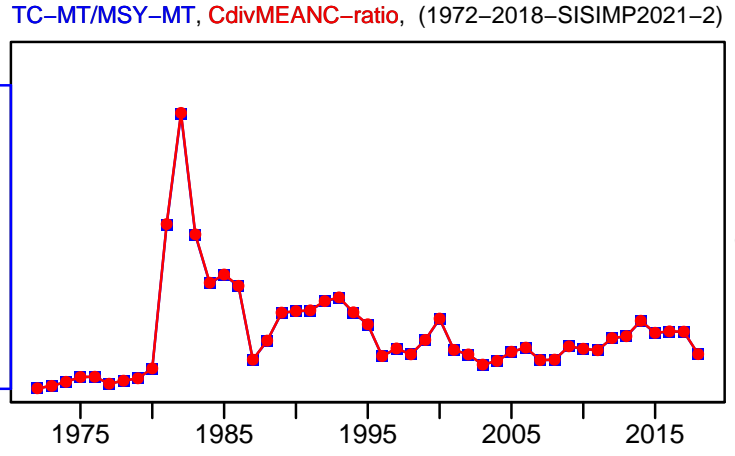
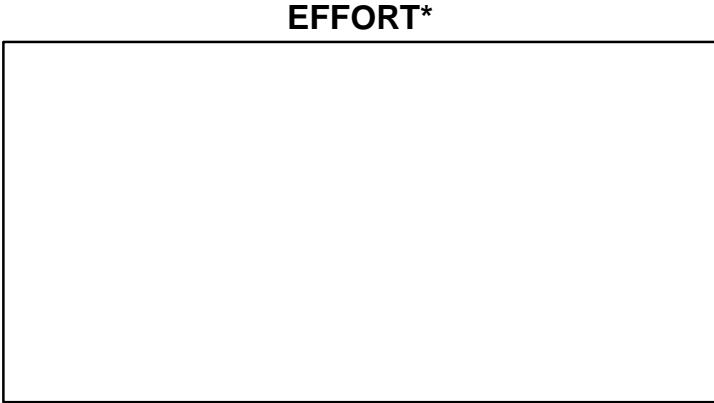
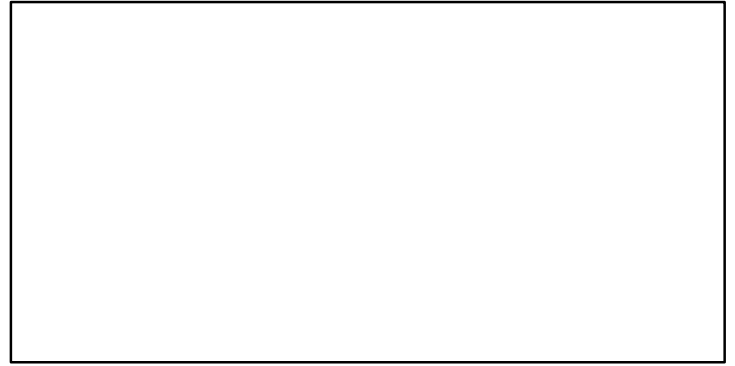
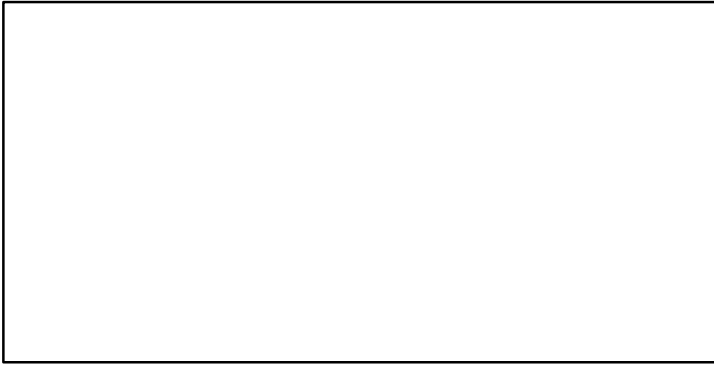
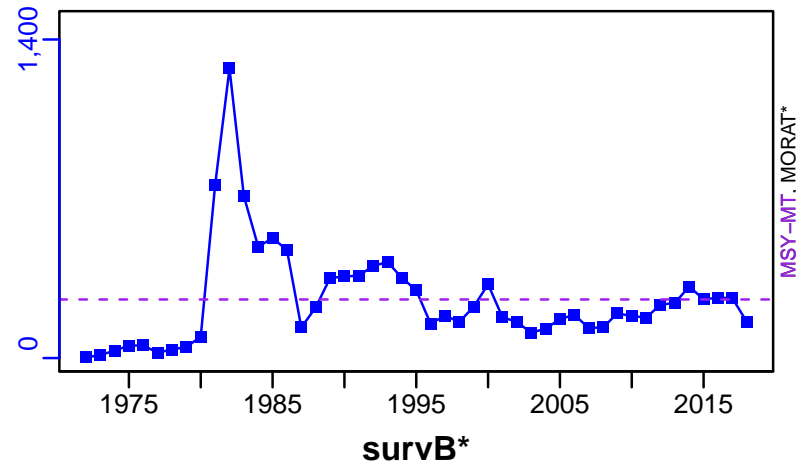
Fmsy-1/yr, Fmgt*, Flim-1/yr

REC-EST*

Tilefish Southern Atlantic coast [TILESATLC]

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

TAC*, Cpair*, Cadv*



Twosaddle goatfish Main Hawaiian Islands [TSGTFMHI]

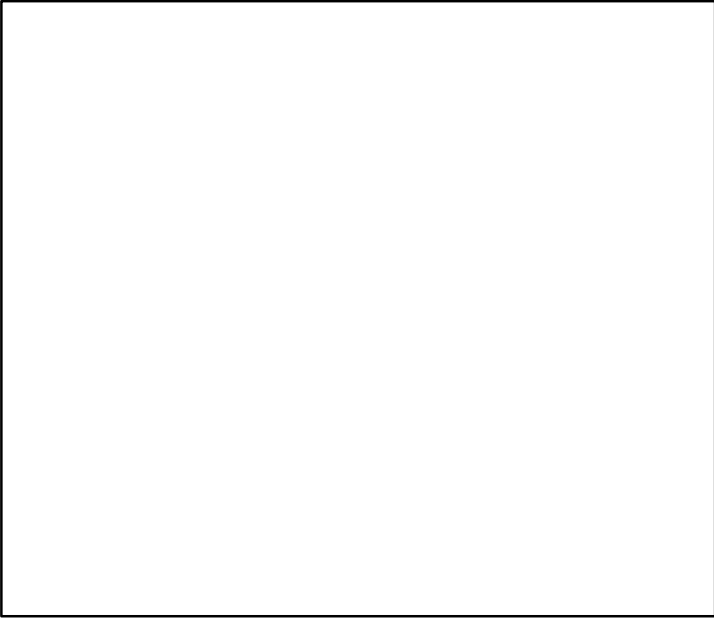
Metadata	
Scientific Name	Parupeneus bifasciatus
Current Assess ID	PIFSC-TSGTFMHI-2004-2015-SISIMP2021
Area	Main Hawaiian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fisheries Science Center
Asmts in RAM	2015

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

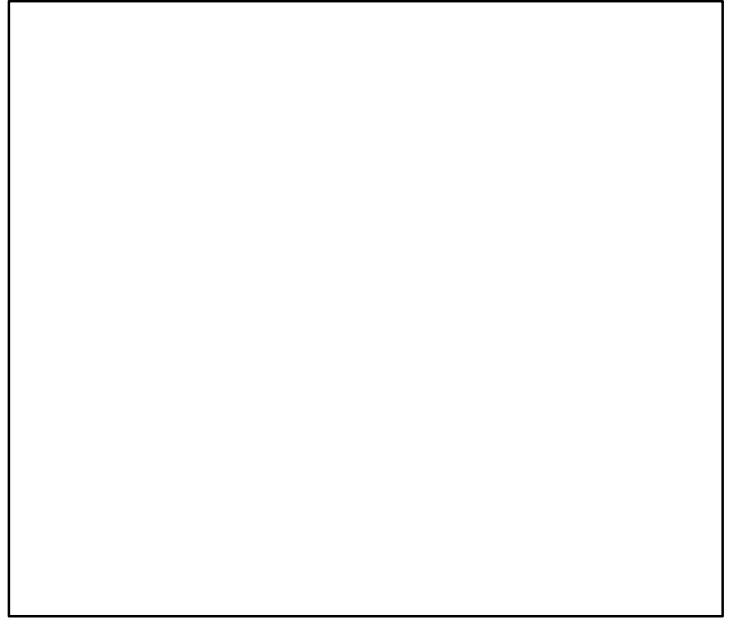
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	0.518		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Twosaddle goatfish Main Hawaiian Islands [TSGTFMHI]

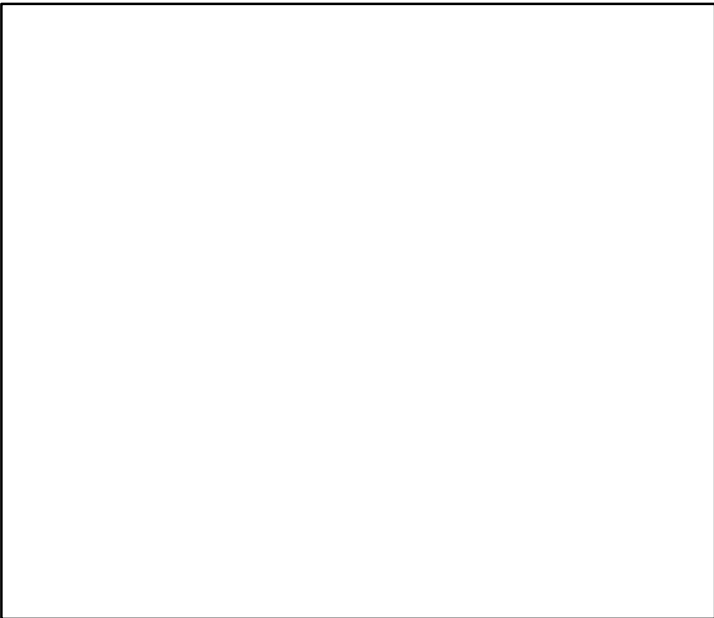
Kobe MSY*



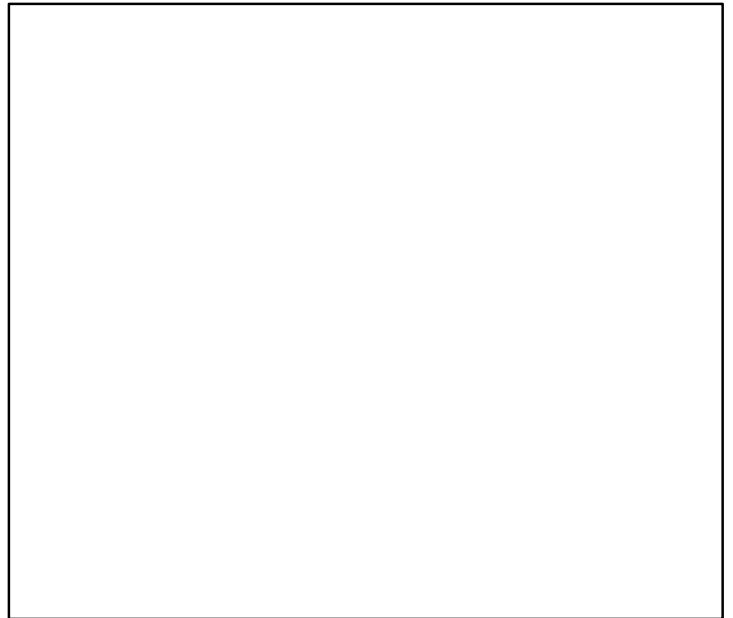
Kobe MGT*



Spawner Recruit*



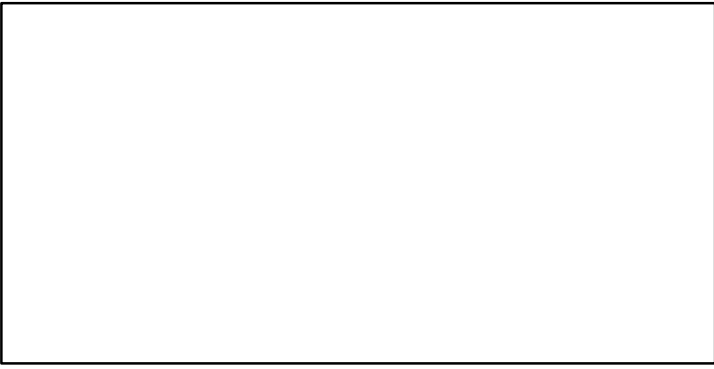
Production*



◆ Start Year ◆ End Year * No Data

Twosaddle goatfish Main Hawaiian Islands [TSGTFMHI]

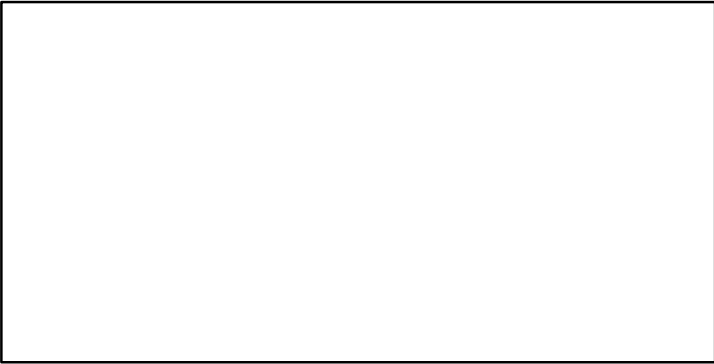
TB*



SSB*



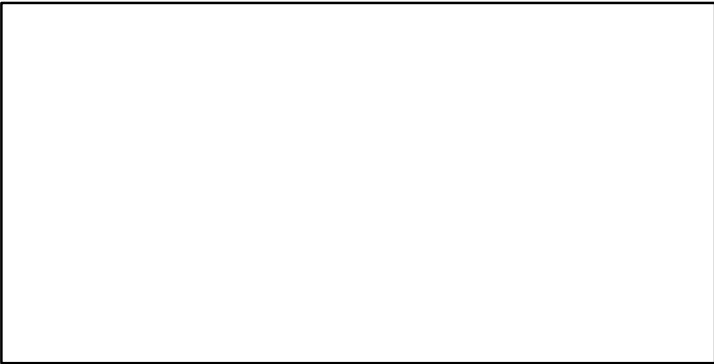
TN *



F*



ER*



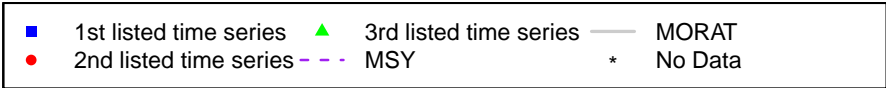
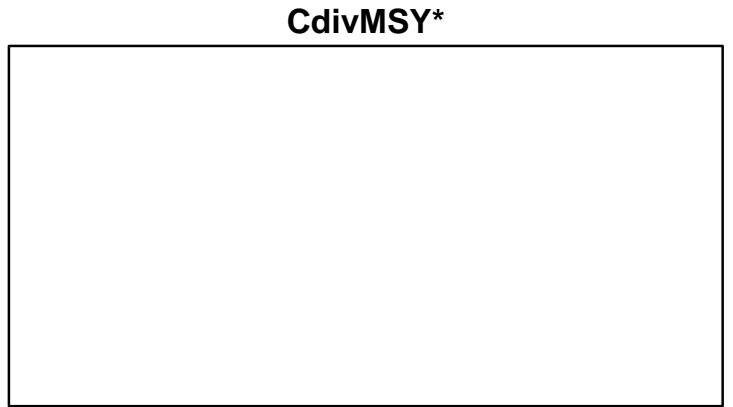
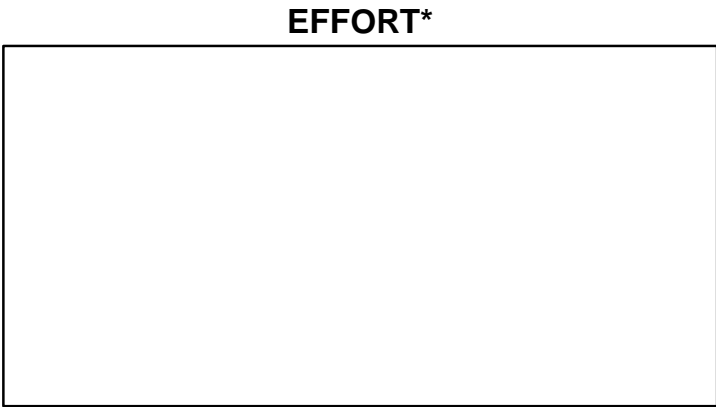
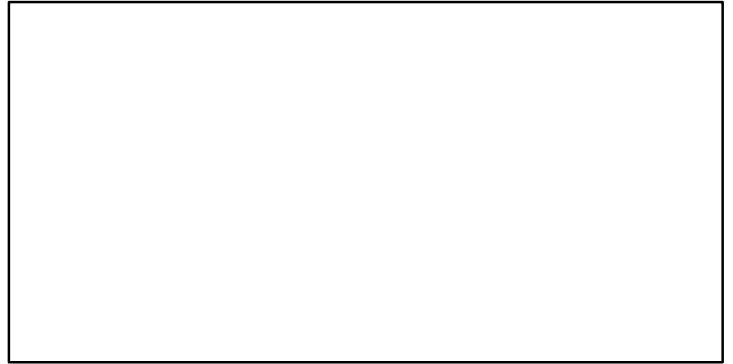
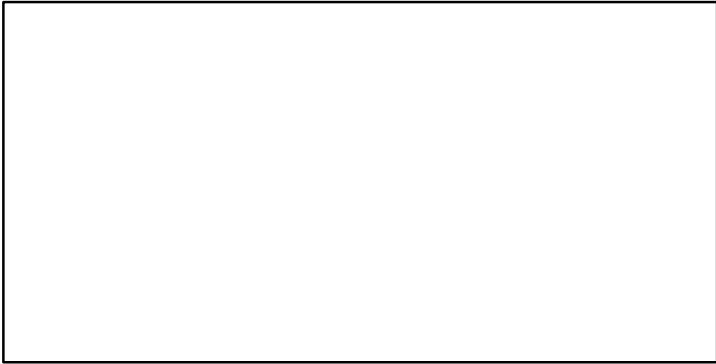
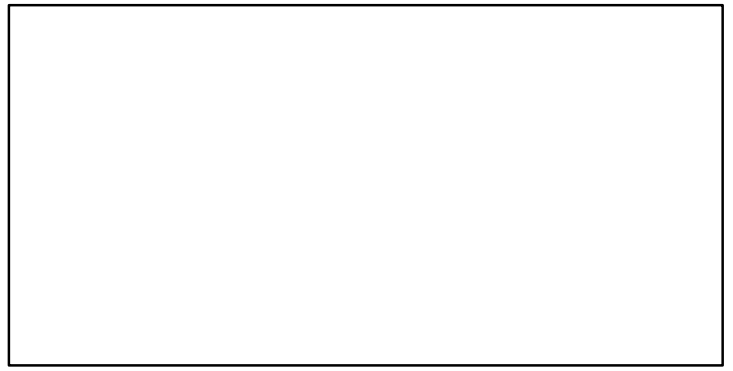
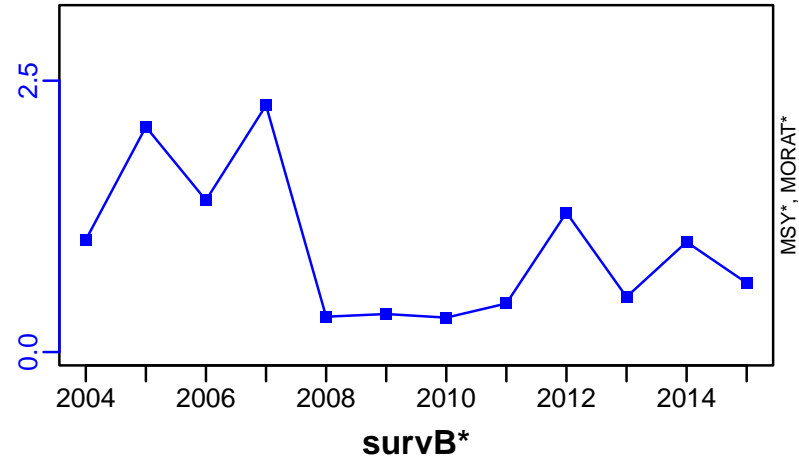
Recruits*



Twosaddle goatfish Main Hawaiian Islands [TSGTFMHI]

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

TAC*, Cpair*, Cadv*



Vermilion snapper Gulf of Mexico [VSNAPGM]

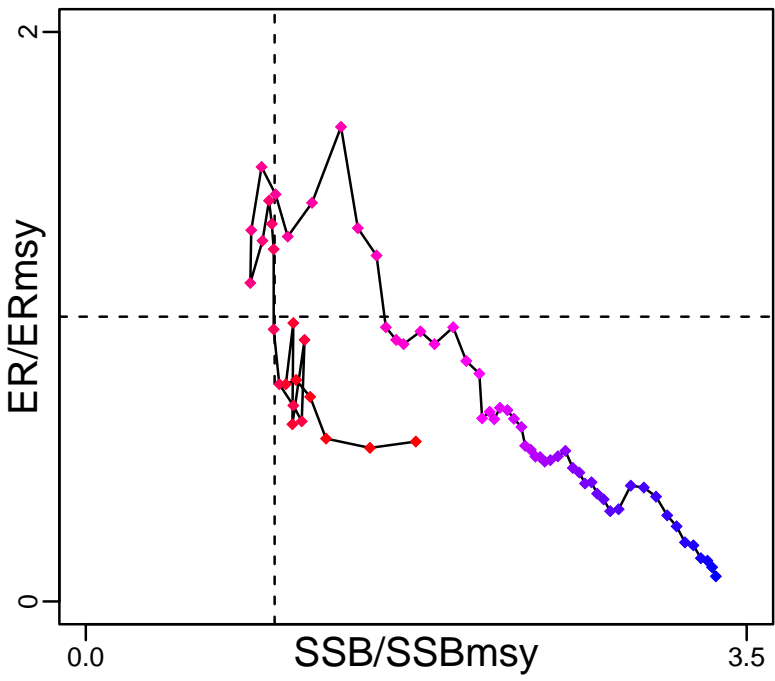
Metadata	
Scientific Name	Rhomboplites aurorubens
Current Assess ID	SEFSC-VSNAPGM-1950-2017-SISIMP2021-2
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2014, 2017, 2004

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

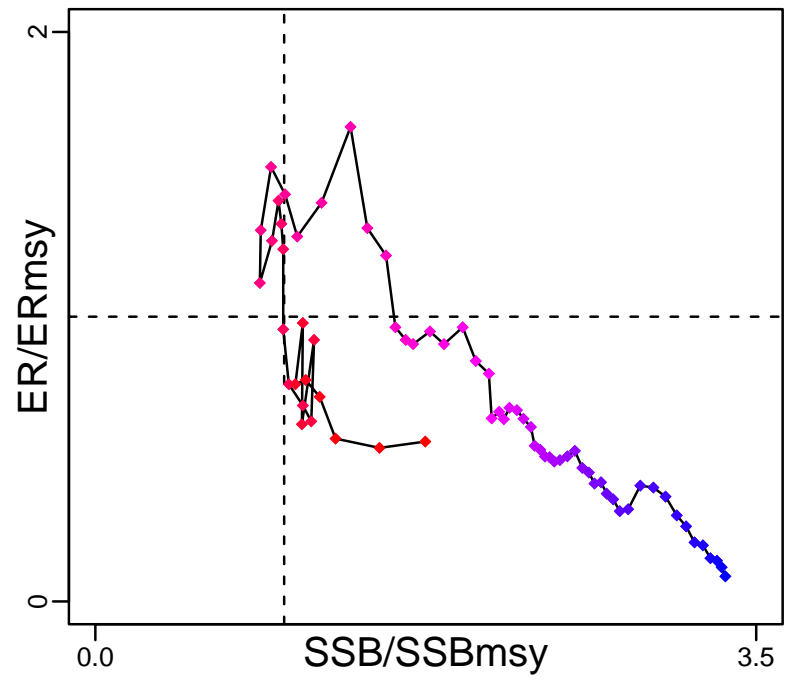
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	11,500	-	1+
SSB	SSB-E00eggs	2017	3.53×10^{14}	-	-
TN	-	-	-	-	-
R	R-E00	2017	21,200,000	-	0
F	F-1/yr	2014	0.239	-	-
ER	ER-ratio	2017	0.076	-	-
TC	TC-MT	2017	2810		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2017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

Vermilion snapper Gulf of Mexico [VSNAPGM]

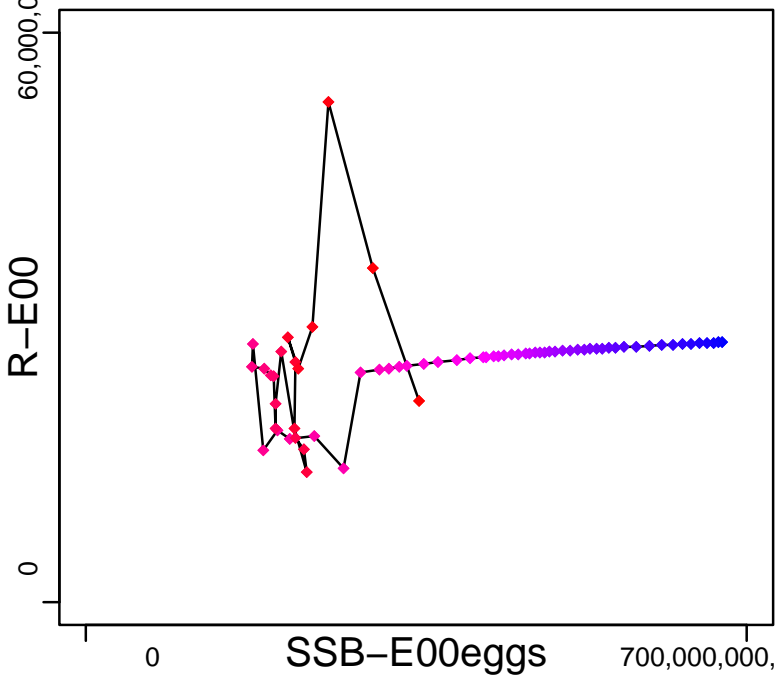
Kobe MSYpref (1950–2017–SISIMP2021–2)



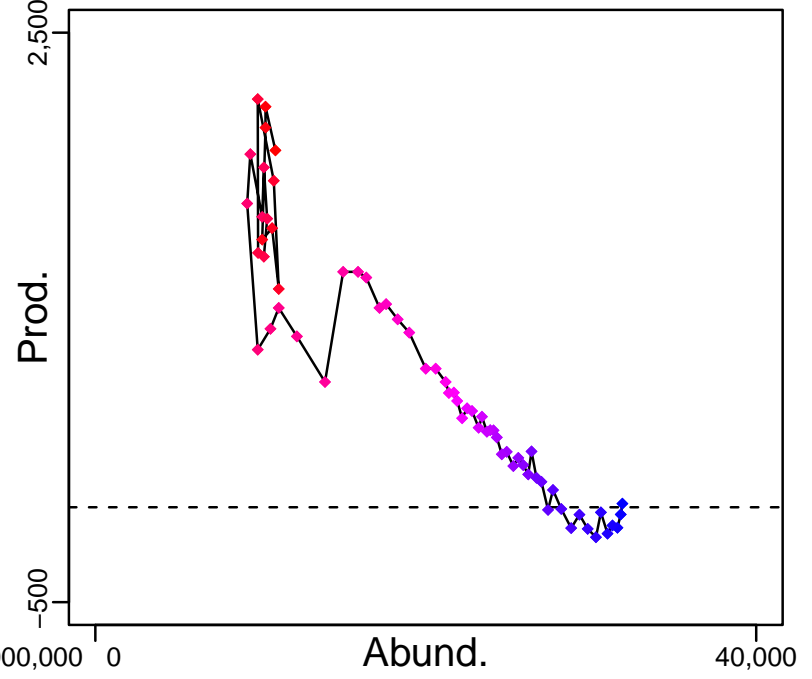
Kobe MGTpref (1950–2017–SISIMP2021–2)



Spawner Recruit (1950–2017–SISIMP2021–2)



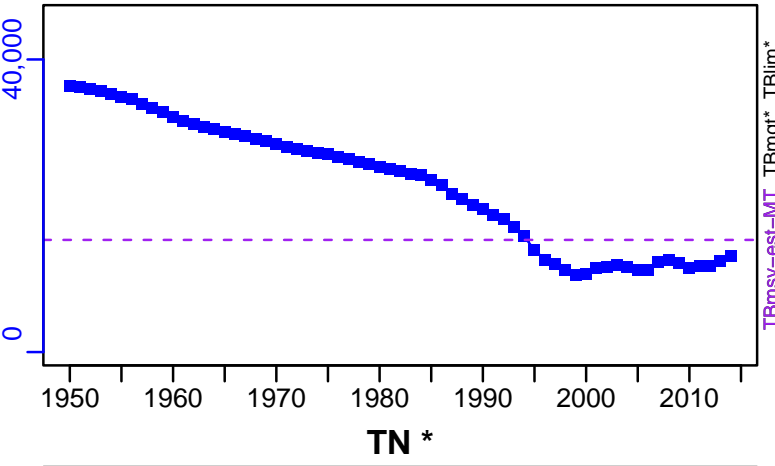
Production (1950–2014–SISIMP2016)



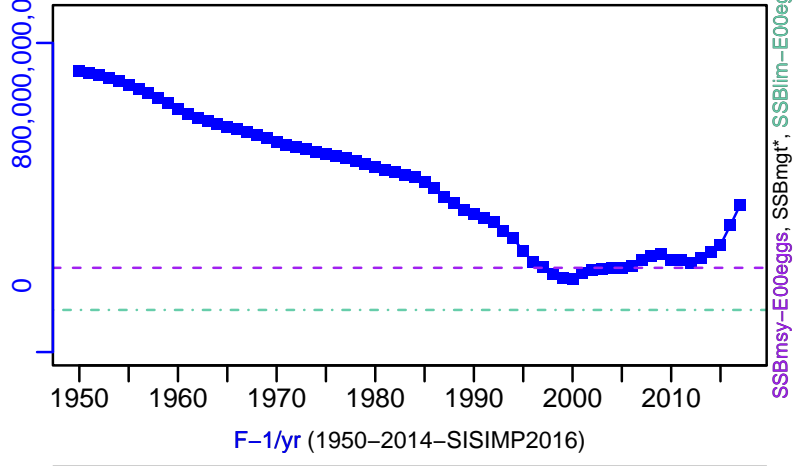
◆ Start Year ◆ End Year * No Data

Vermilion snapper Gulf of Mexico [VSNAPOGM]

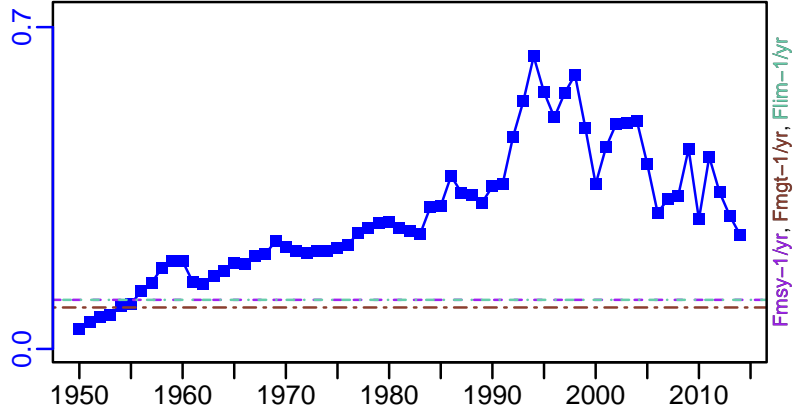
TB-MT (1950-2014-SISIMP2016)



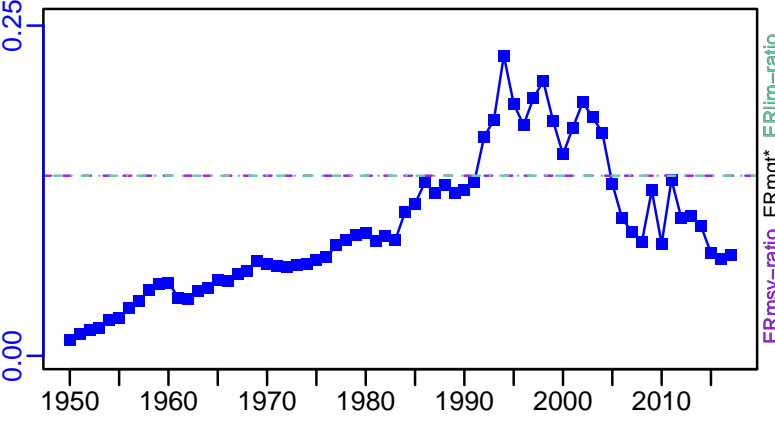
SSB-E00eggs (1950-2017-SISIMP2021-2)



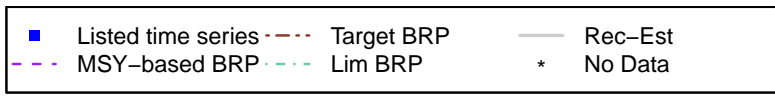
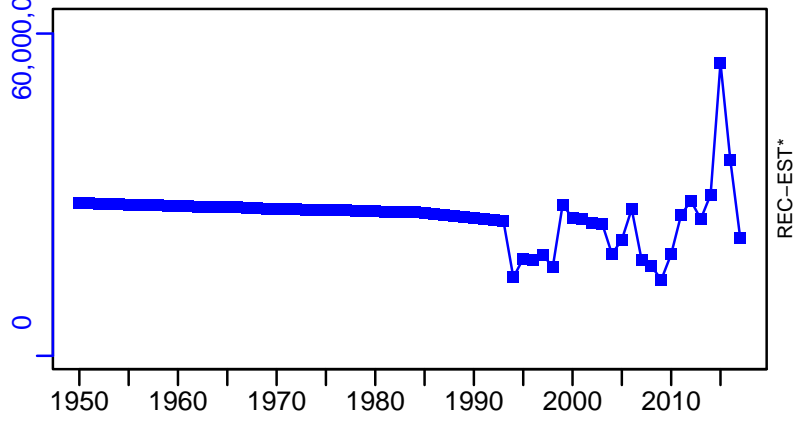
F-1/yr (1950-2014-SISIMP2016)



ER-ratio (1950-2017-SISIMP2021-2)



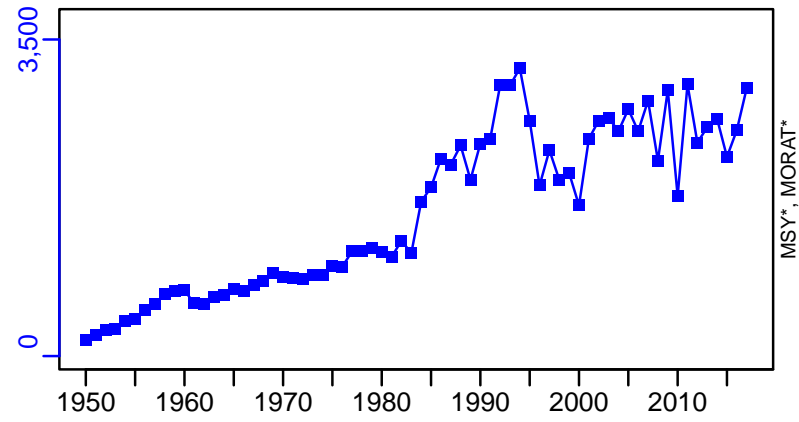
R-E00 (1950-2017-SISIMP2021-2)



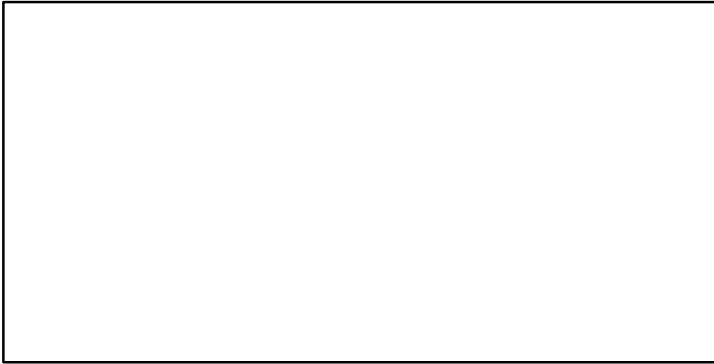
Vermilion snapper Gulf of Mexico [VSNAPGM]

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

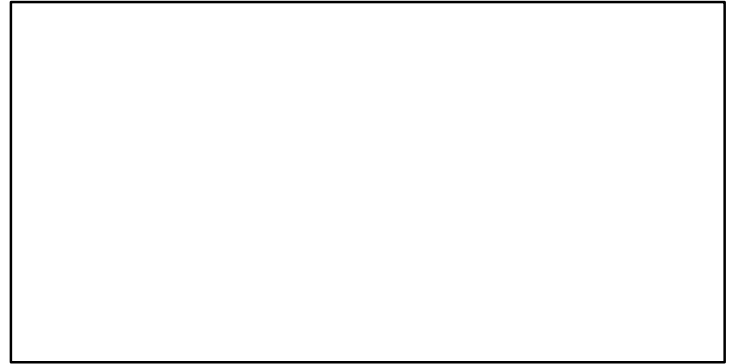
TAC*, Cpair*, Cadv*



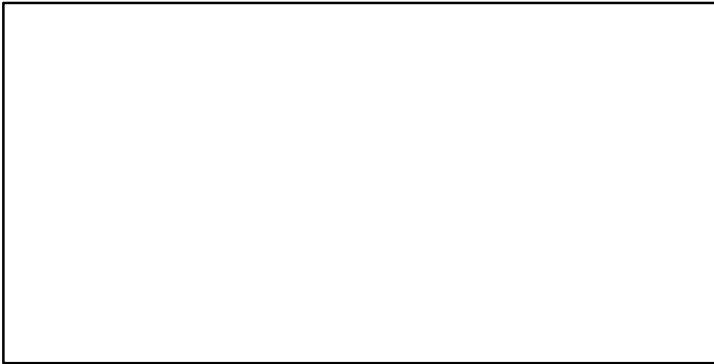
survB*



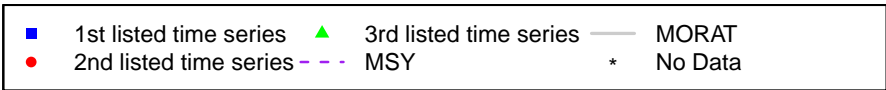
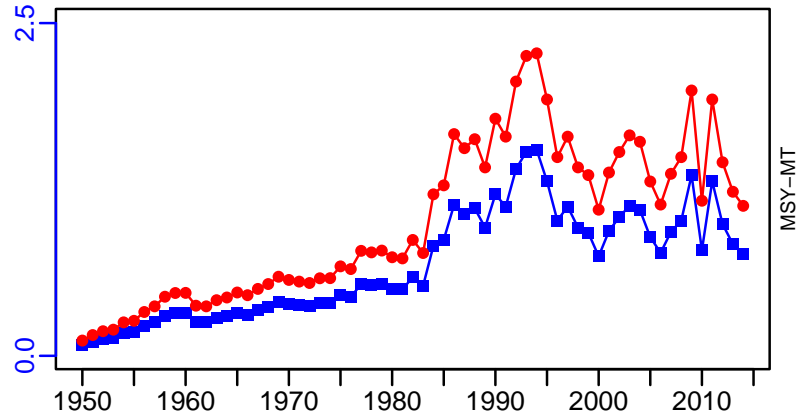
CPUE*



EFFORT*



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



Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

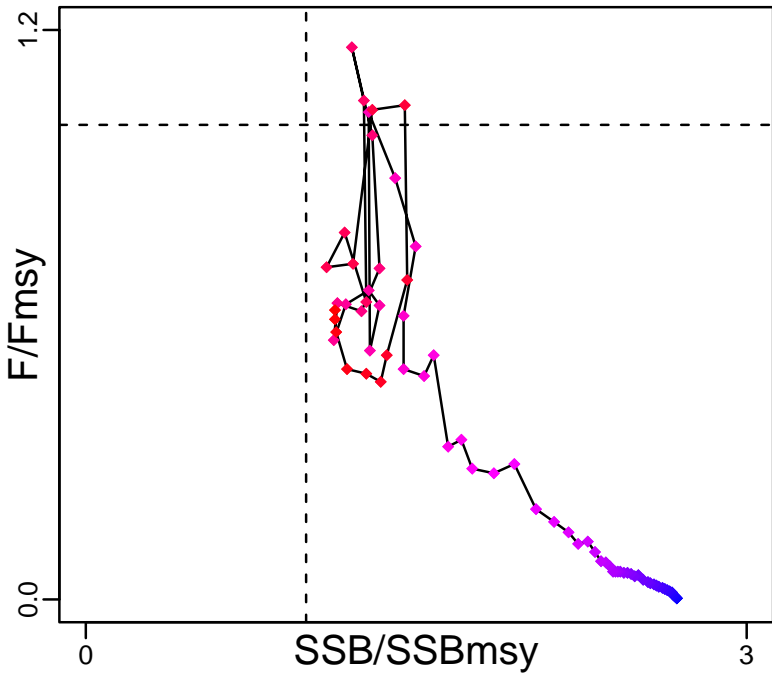
Metadata	
Scientific Name	Rhomboplites aurorubens
Current Assess ID	SEFSC-VSNAPSATLC-1945-2016-SISIMP2021
Area	Southern Atlantic coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2012, 2016

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

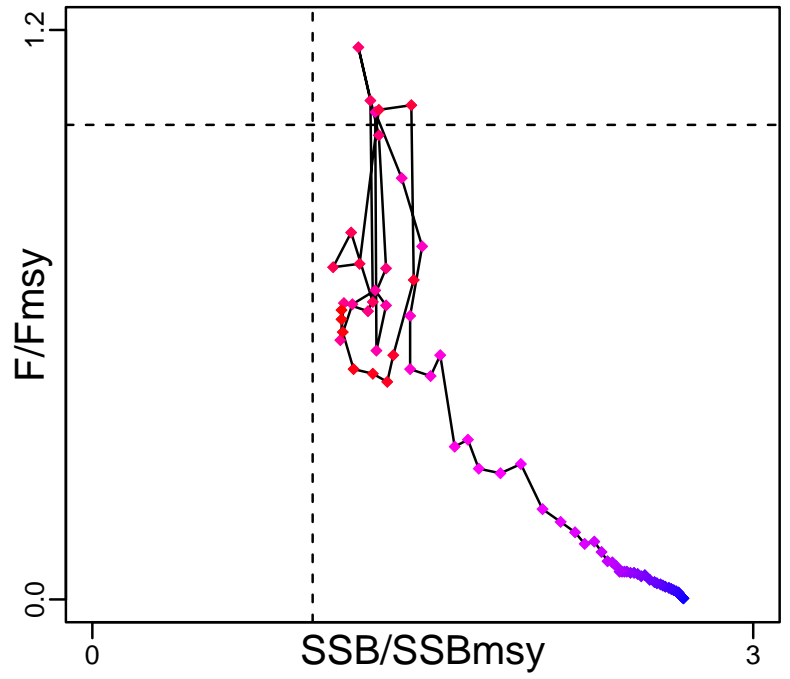
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	2120	-	-
SSB	SSB-E00eggs	2016	2.07×10^{13}	-	-
TN	-	-	-	-	-
R	R-E00	2016	5,501,271	-	1
F	F-1/yr	2016	0.25	-	-
ER	ER-calc-ratio	2012	0.296	-	-
TC	TC-MT	2016	573		
TL	TL-MT	2012	649		
TB/TBmsy	TB-MT/TBmsy-MT	2012	0.941		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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

Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

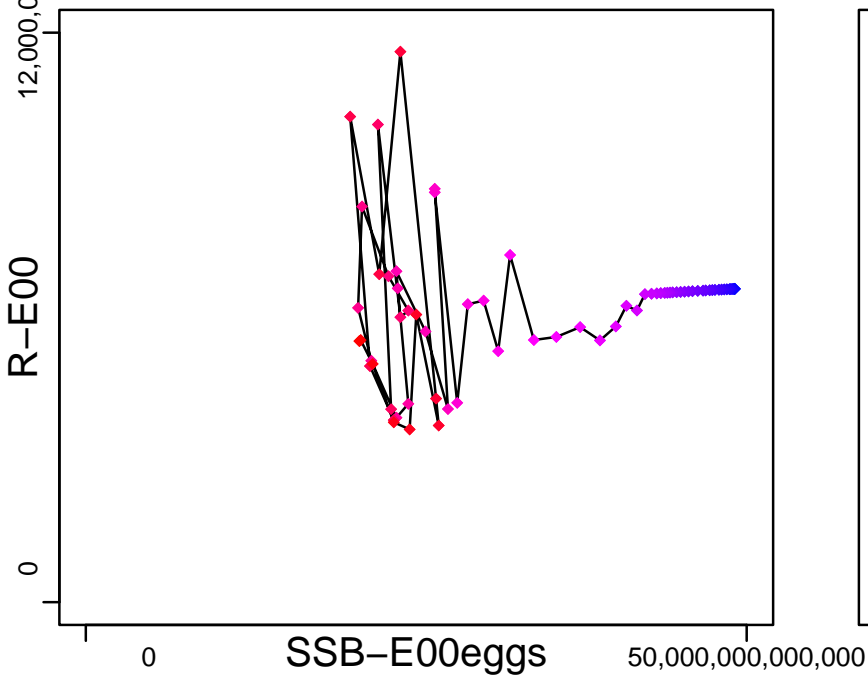
Kobe MSYpref (1945–2016–SISIMP2021)



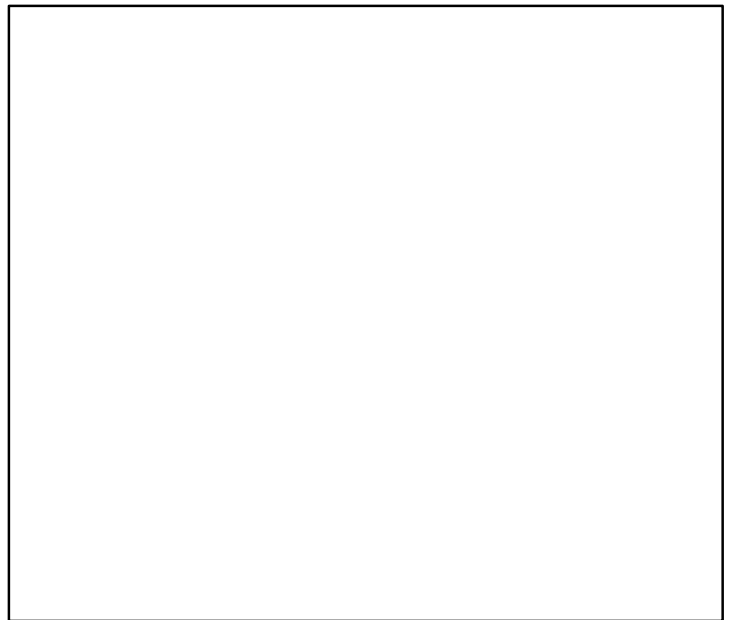
Kobe MGTpref (1945–2016–SISIMP2021)



Spawner Recruit (1945–2016–SISIMP2021)



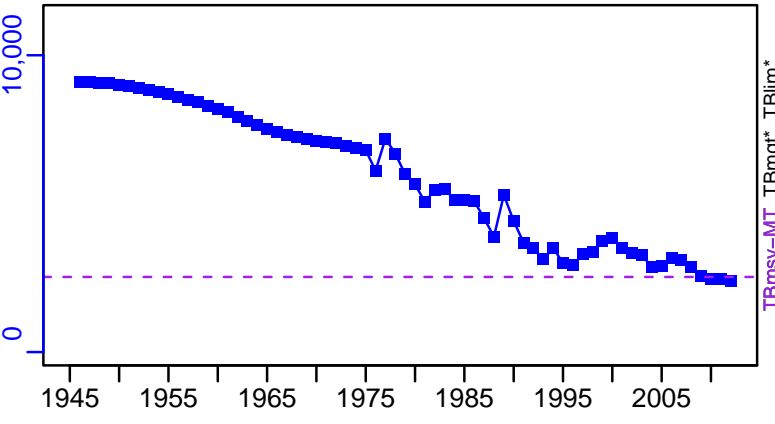
Production*



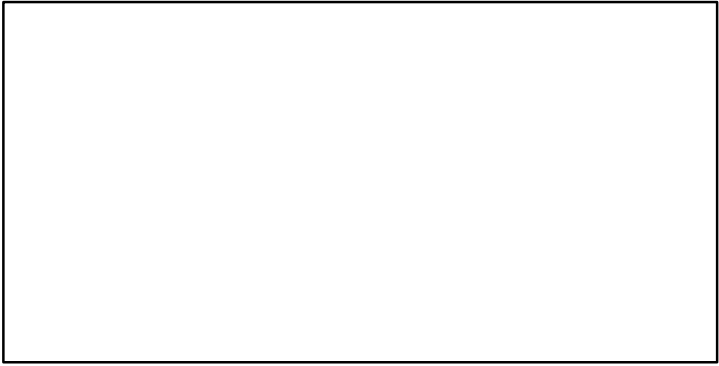
◆ Start Year ◆ End Year * No Data

Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

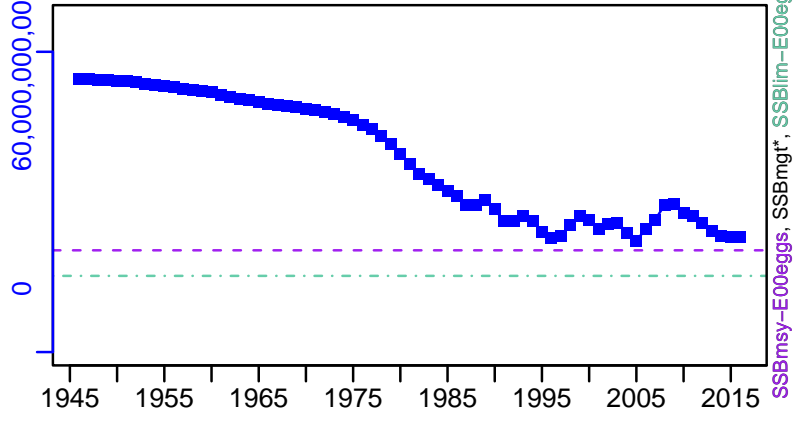
TB-MT (1945-2012-HIVELY)



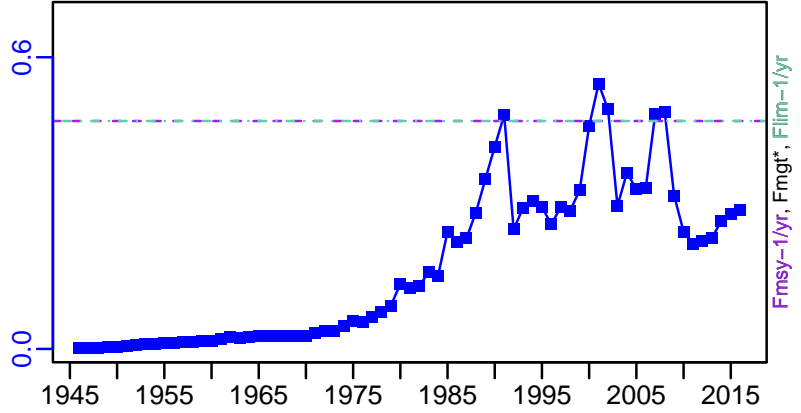
TN *



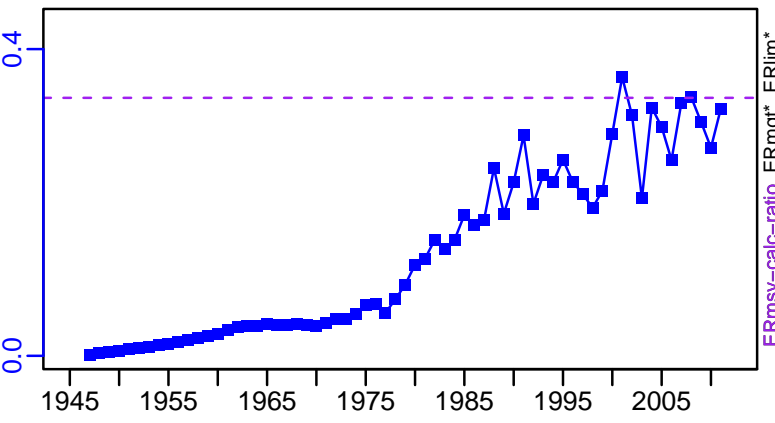
SSB-E00eggs (1945-2016-SISIMP2021)



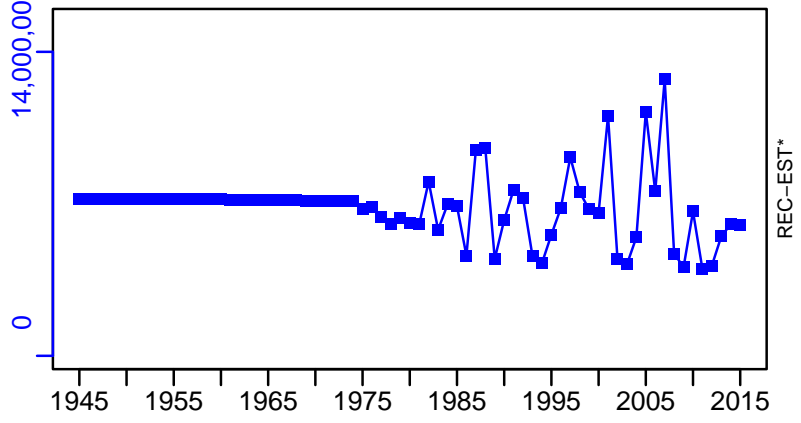
F-1/yr (1945-2016-SISIMP2021)



ER-calc-ratio (1945-2012-HIVELY)



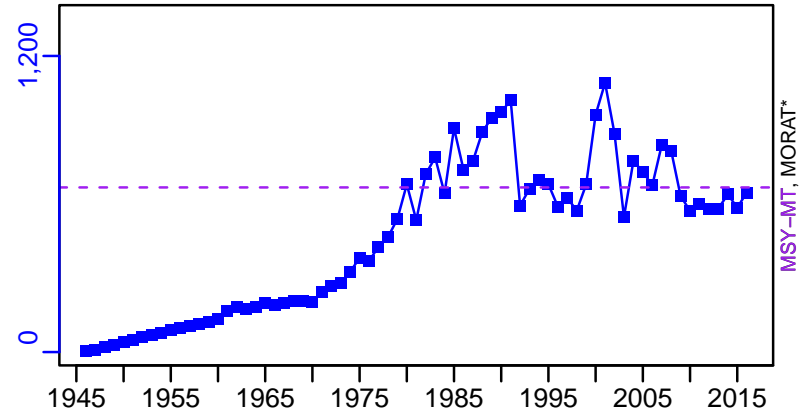
R-E00 (1945-2016-SISIMP2021)



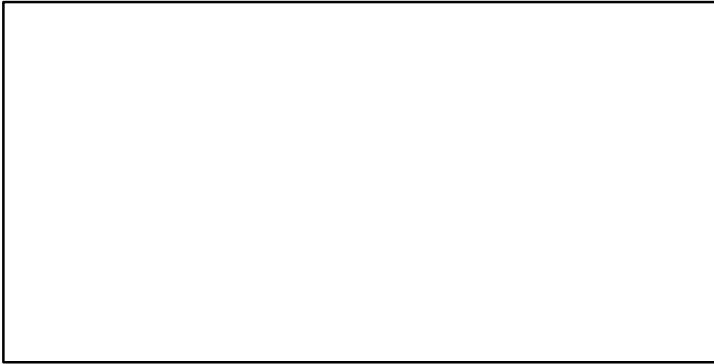
Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

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

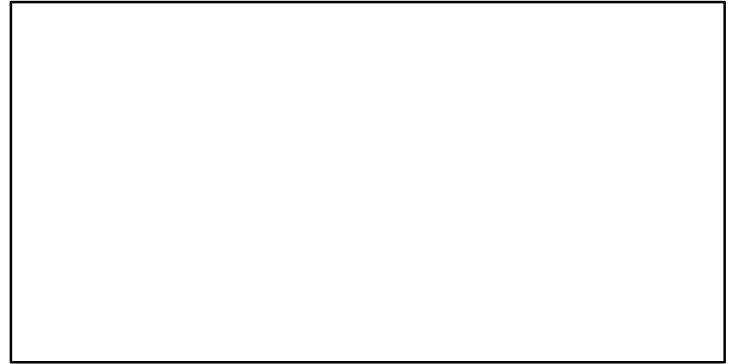
TAC*, Cpair*, Cadv*



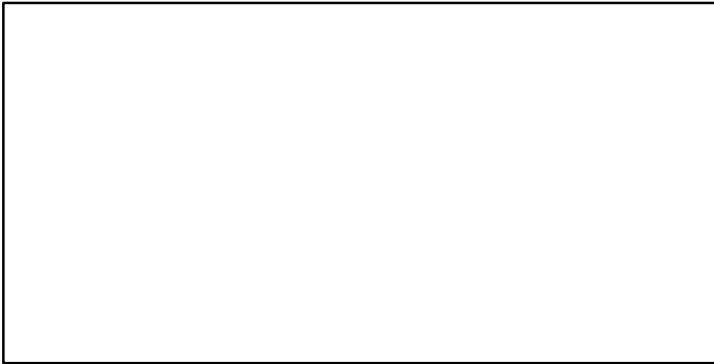
survB*



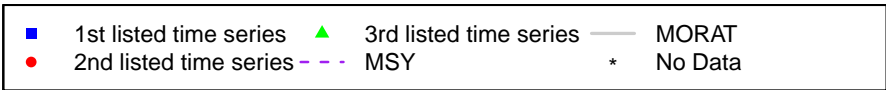
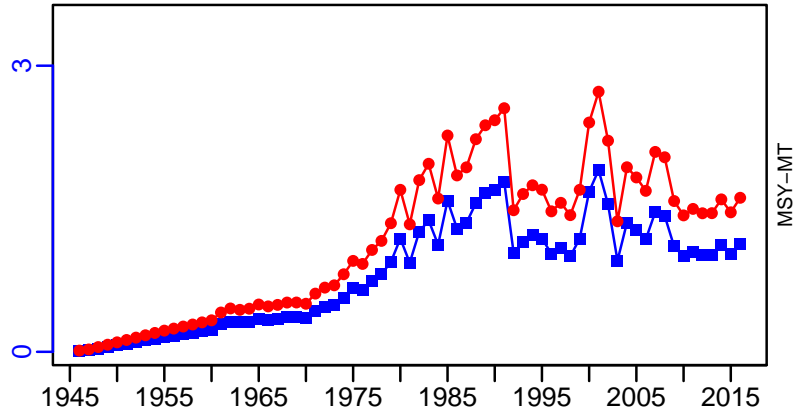
CPUE*



EFFORT*



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



Weakfish Atlantic Coast [WEAKFISHATLC]

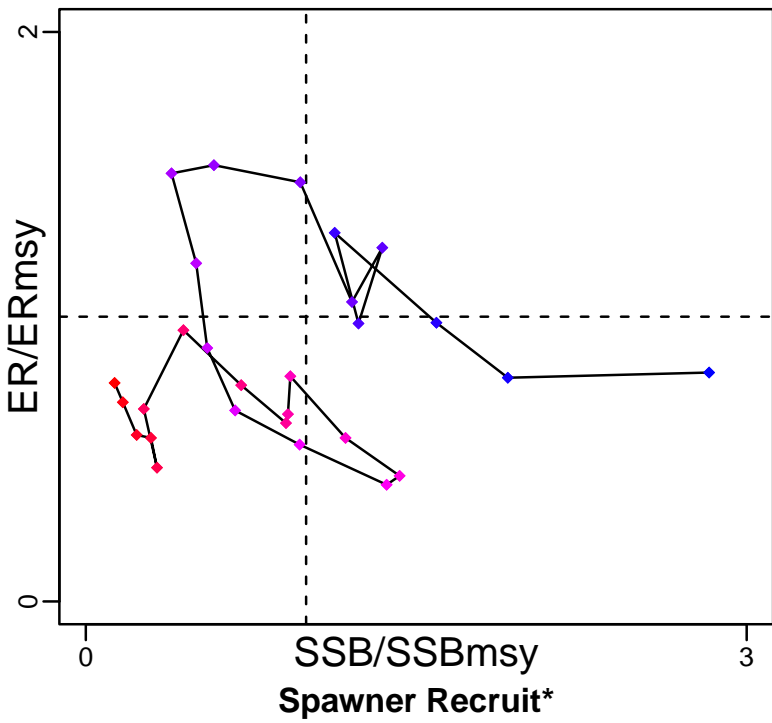
Metadata	
Scientific Name	Cynoscion regalis
Current Assess ID	NEFSC-WEAKFISHATLC-1981-2008-STANTON
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008

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

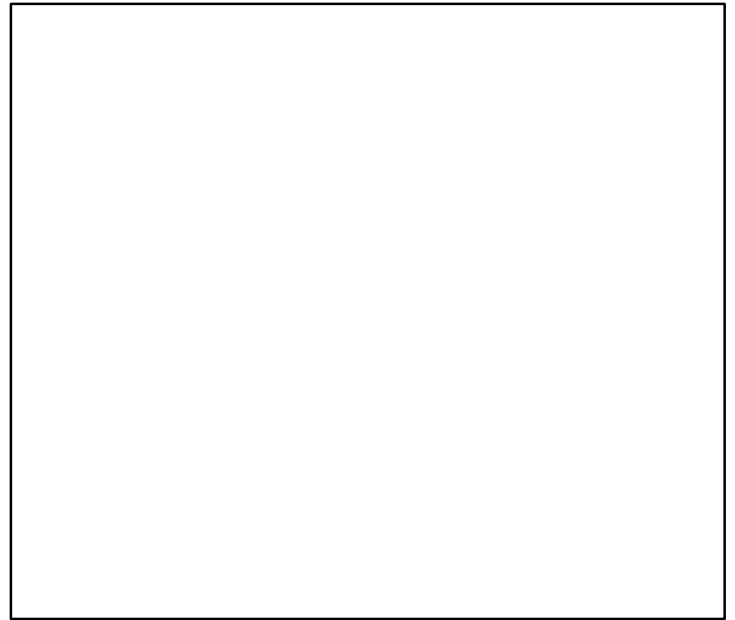
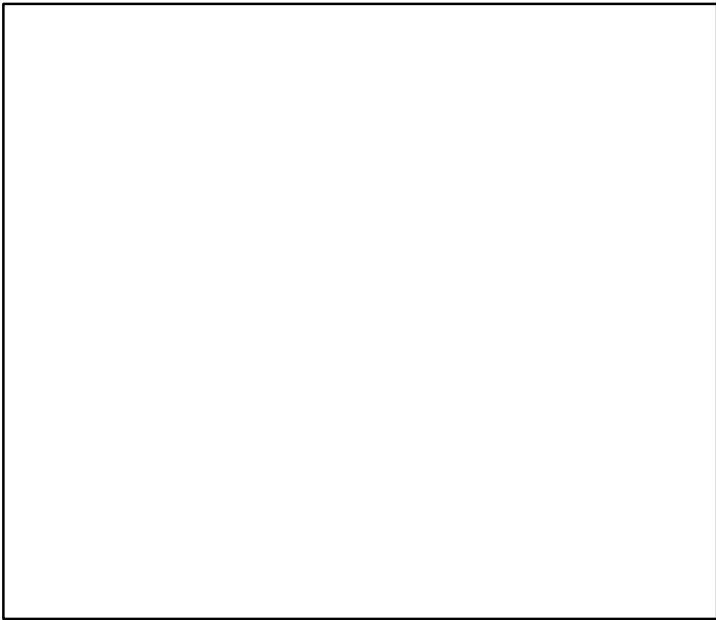
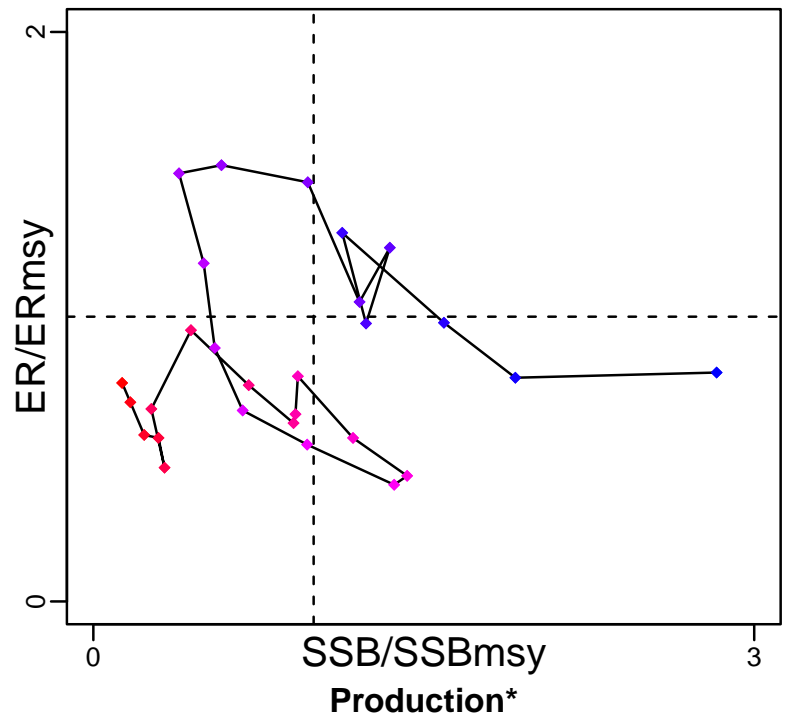
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2008	1330	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2008	0.294	-	-
TC	TC-MT	2008	899		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2008	0.131		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt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

Weakfish Atlantic Coast [WEAKFISHATLC]

Kobe MSYpref (1981-2008-STANTON)



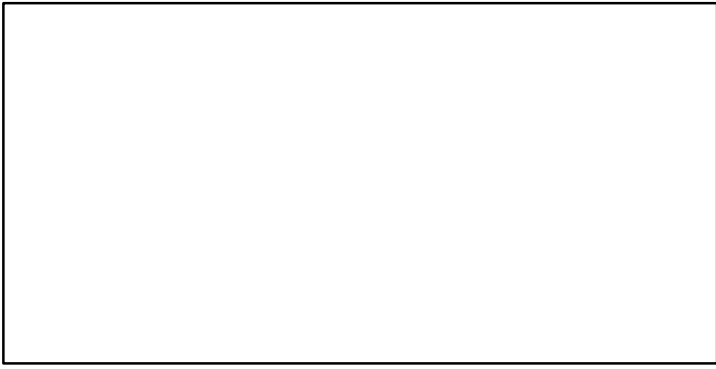
Kobe MGTpref (1981-2008-STANTON)



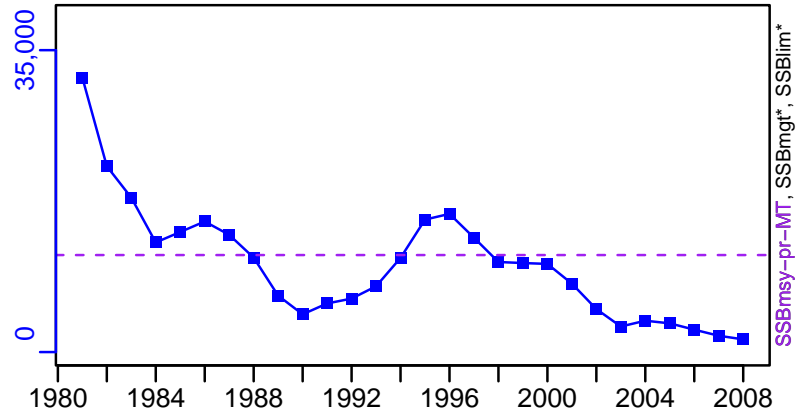
◆ Start Year ◆ End Year * No Data

Weakfish Atlantic Coast [WEAKFISHATLC]

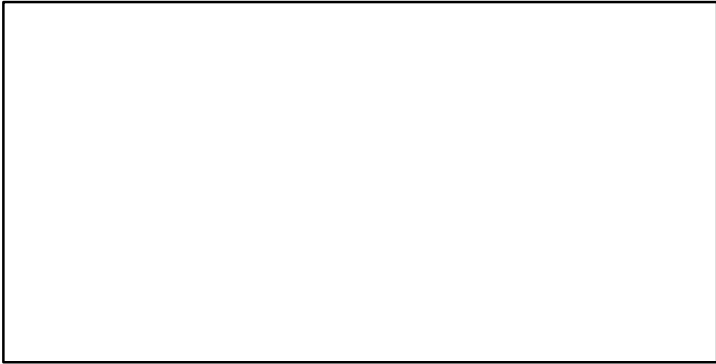
TB*



SSB-MT (1981-2008-STANTON)



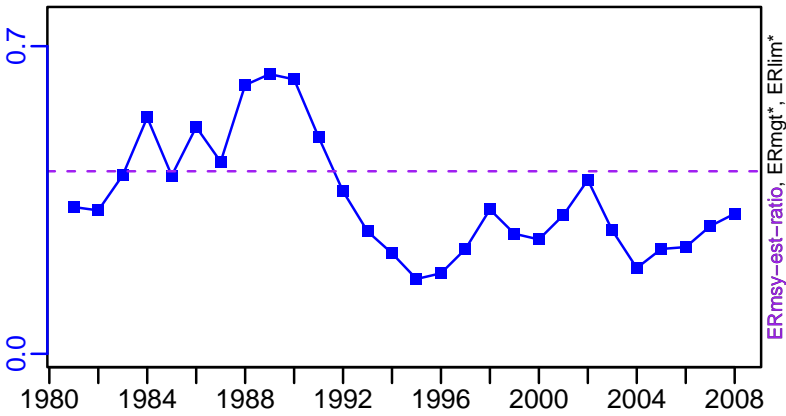
TN *



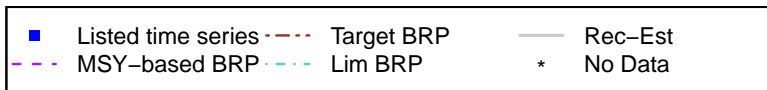
F*



ER-ratio (1981-2008-STANTON)



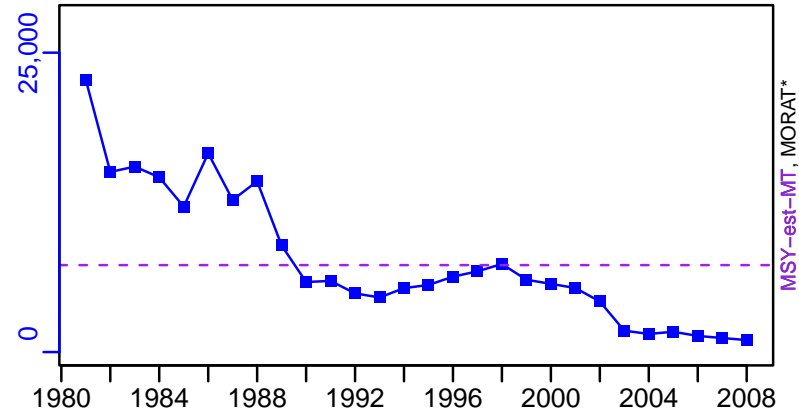
Recruits*



Weakfish Atlantic Coast [WEAKFISHATLC]

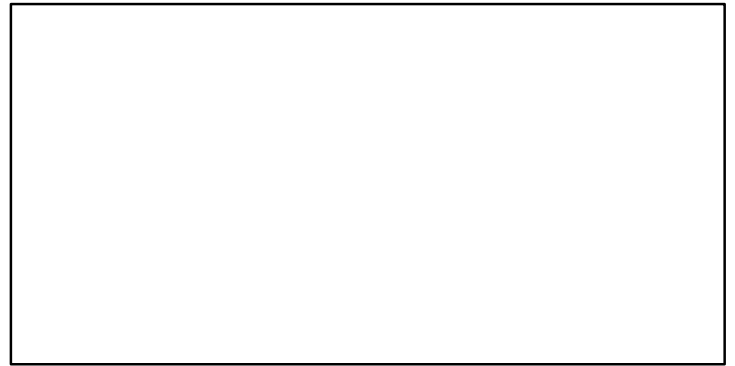
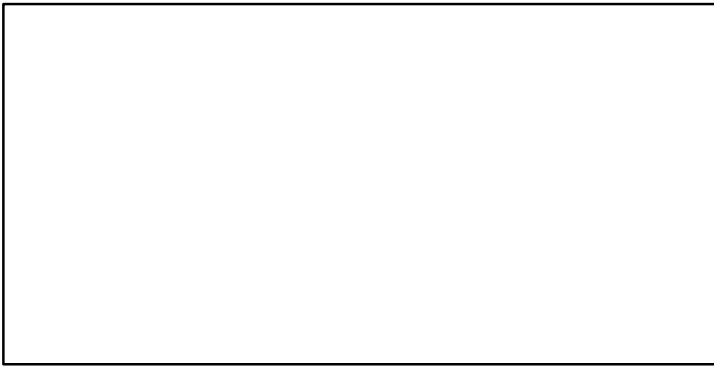
TC-MT, TL*, RecC* (1981-2008-STANTON)

TAC*, Cpair*, Cadv*



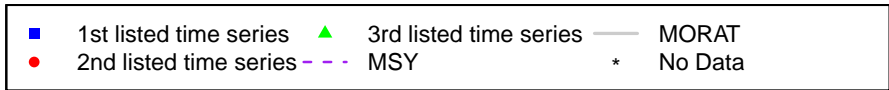
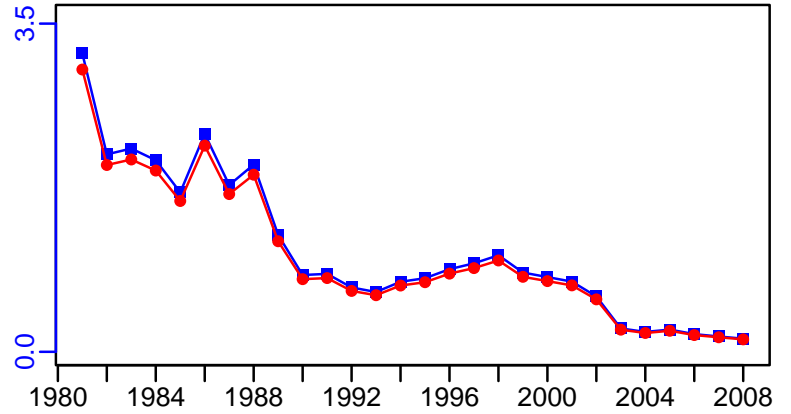
survB*

CPUE*



EFFORT*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (1981-2008-STANTON)



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

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

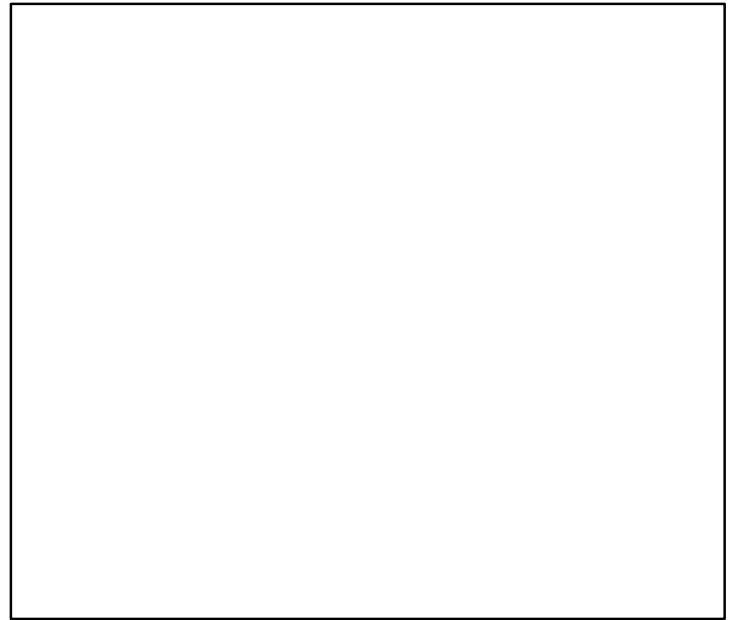
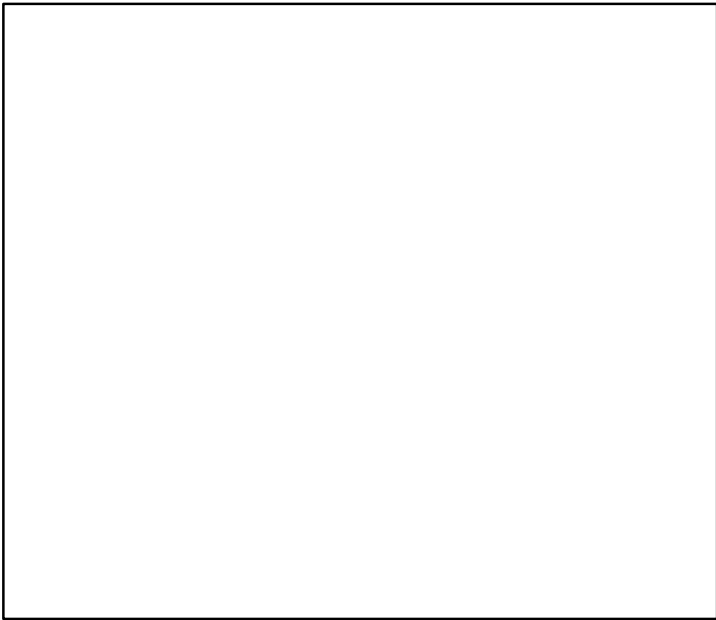
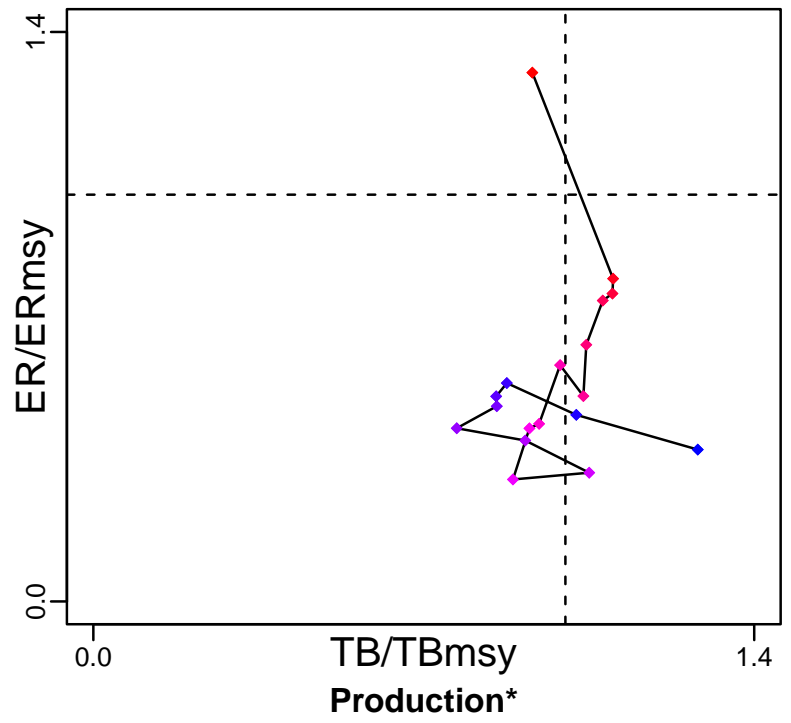
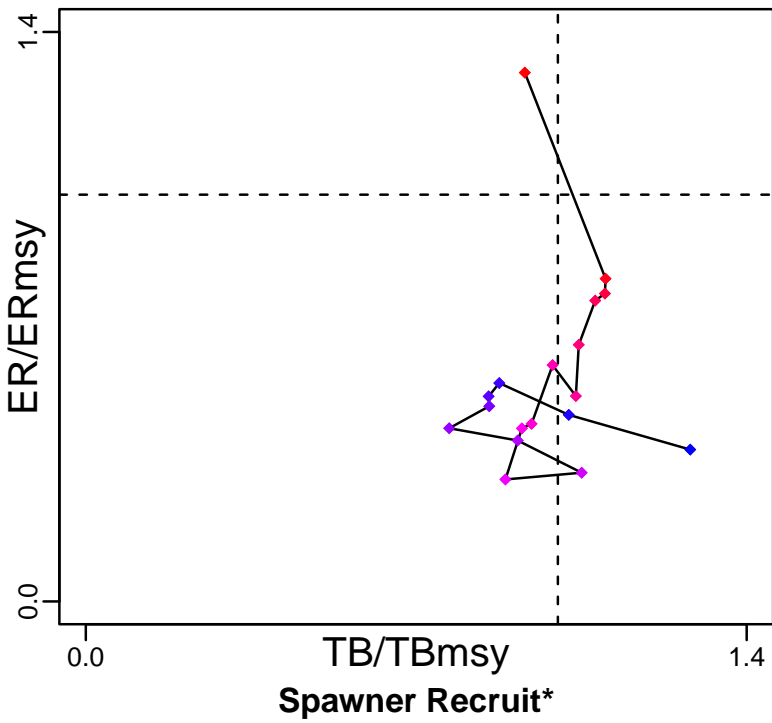
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

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

Kobe MSY_{pref} (1990–2016–ASHBROOK)

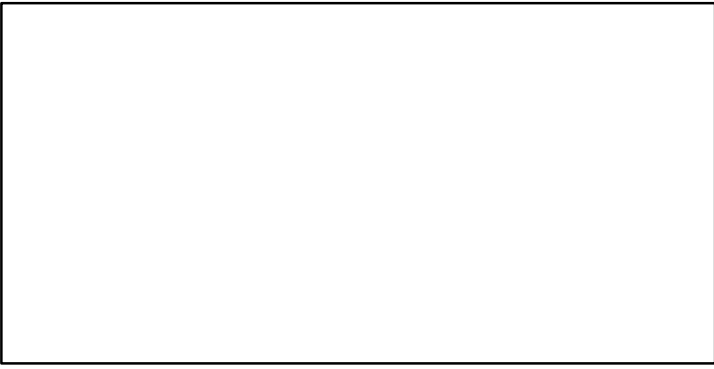
Kobe MGT_{pref} (1990–2016–ASHBROOK)



◆ Start Year ◆ End Year * No Data

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

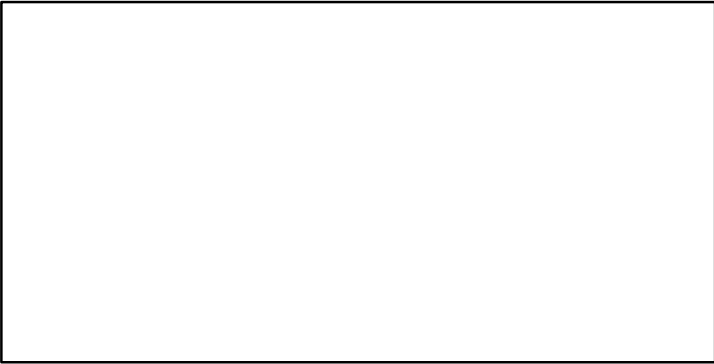
TB*



SSB*



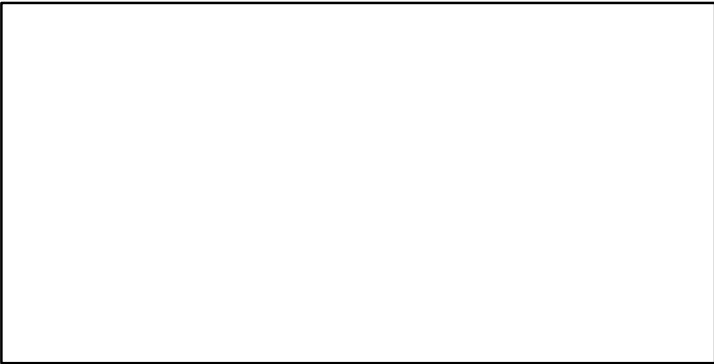
TN *



F*



ER*



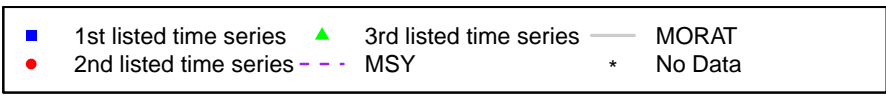
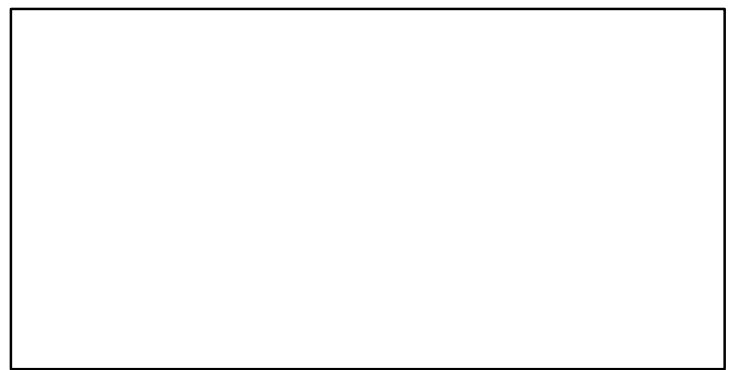
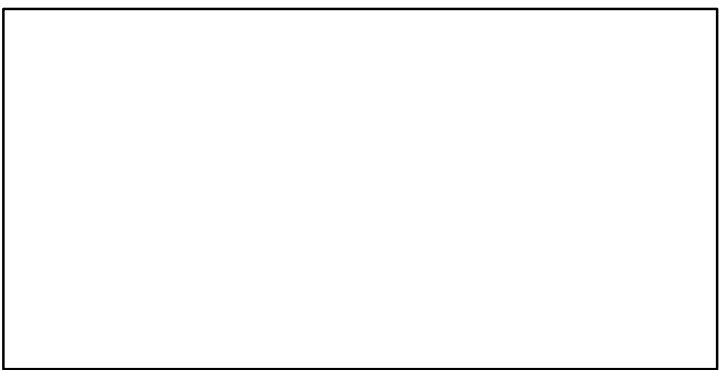
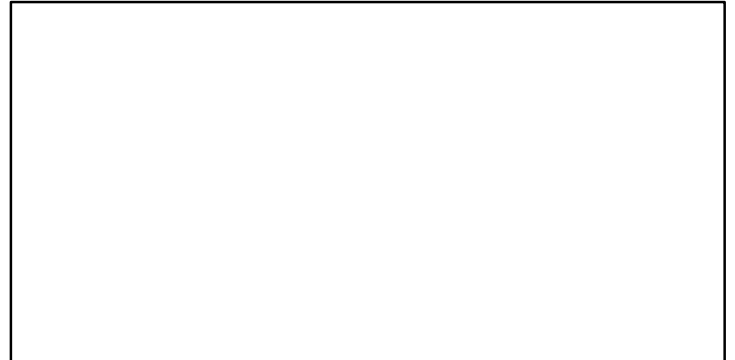
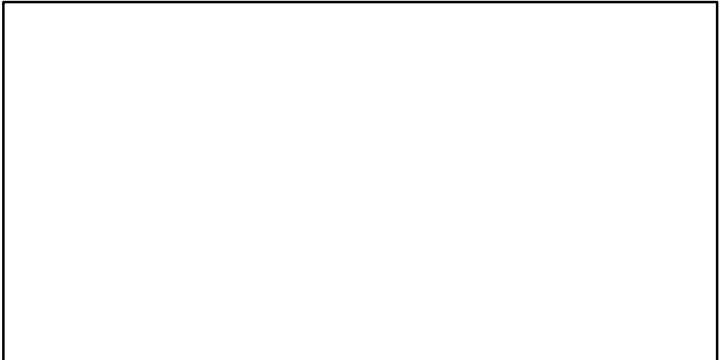
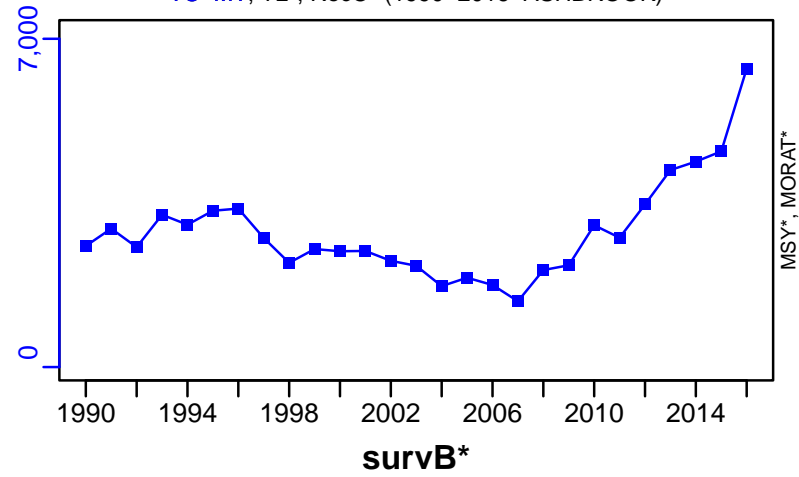
Recruits*



White grouper North West Africa Mauritania–Senegal [WGROUWNWAMRT-SEN]

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

TAC*, Cpair*, Cadv*



Whitesaddle goatfish Main Hawaiian Islands [WSGTFMHI]

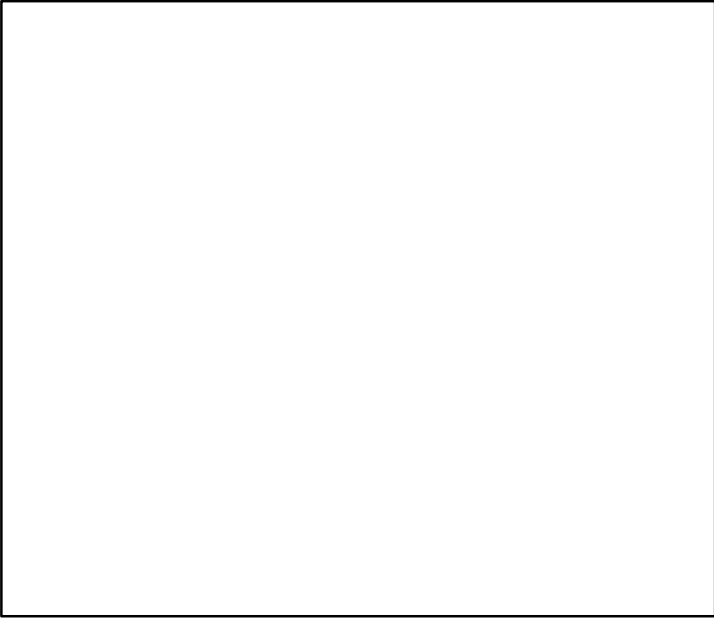
Metadata	
Scientific Name	Parupeneus porphyreus
Current Assess ID	PIFSC-WSGTFMHI-2004-2015-SISIMP2021
Area	Main Hawaiian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fisheries Science Center
Asmts in RAM	2015

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

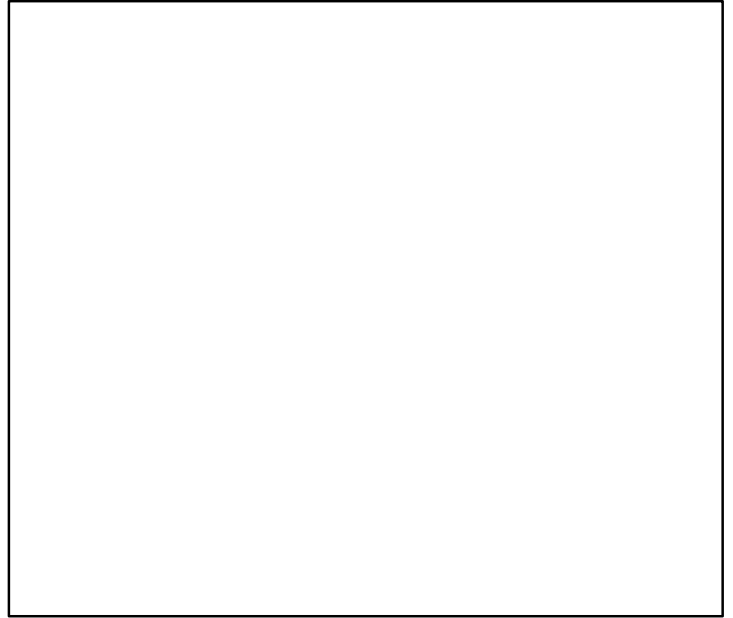
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	4.069		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Whitesaddle goatfish Main Hawaiian Islands [WSGTFMHI]

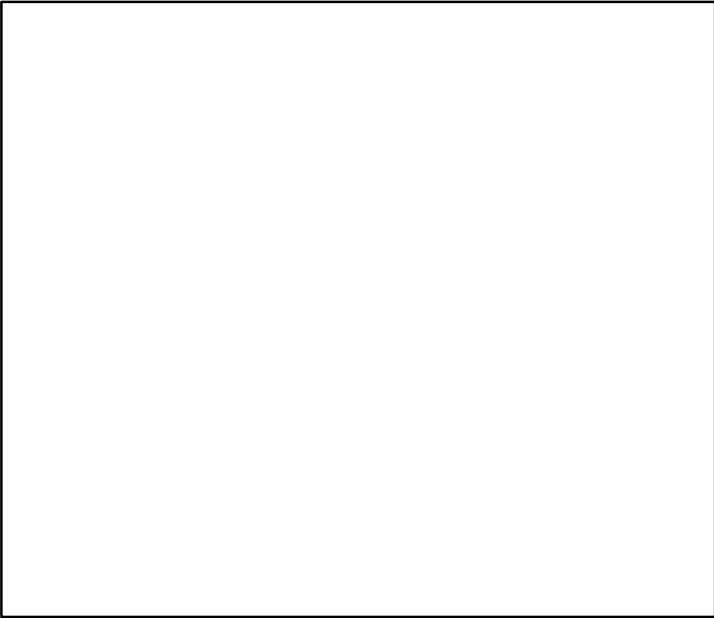
Kobe MSY*



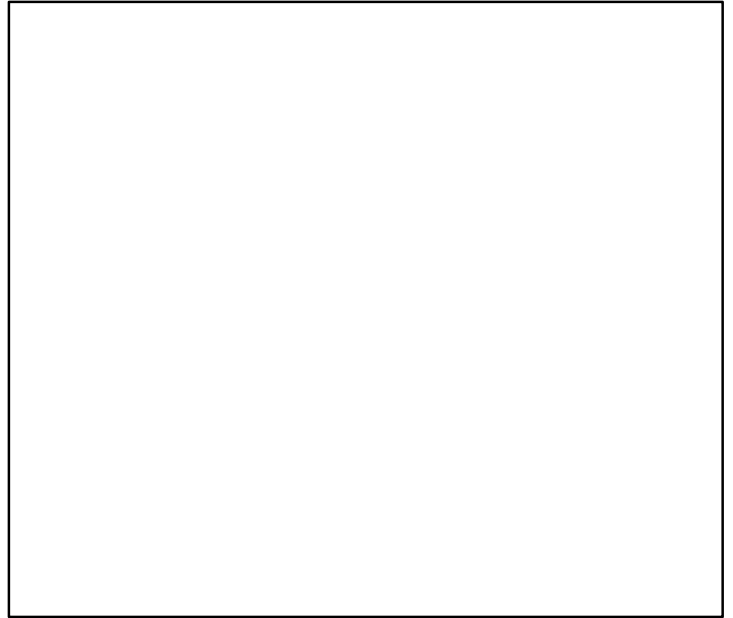
Kobe MGT*



Spawner Recruit*



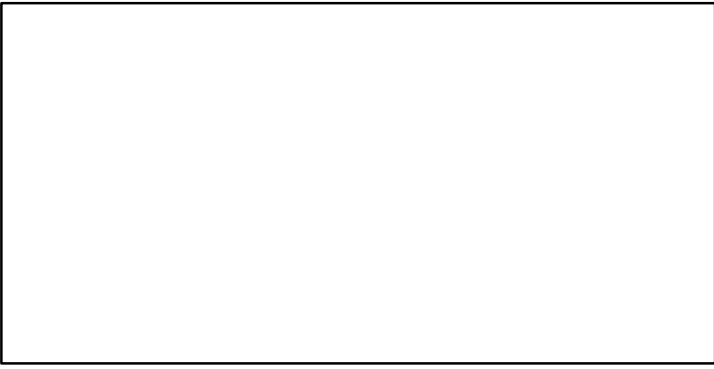
Production*



◆ Start Year ◆ End Year * No Data

Whitesaddle goatfish Main Hawaiian Islands [WSGTFMHI]

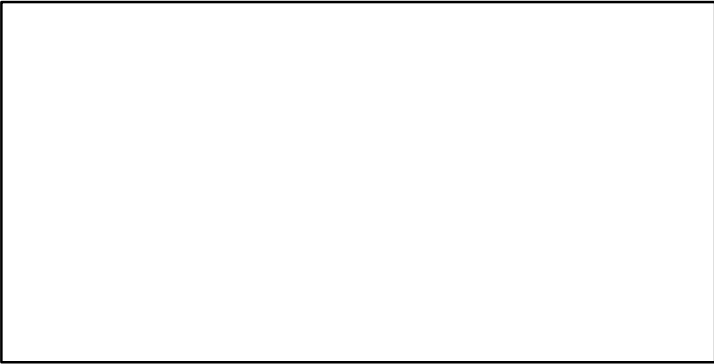
TB*



SSB*



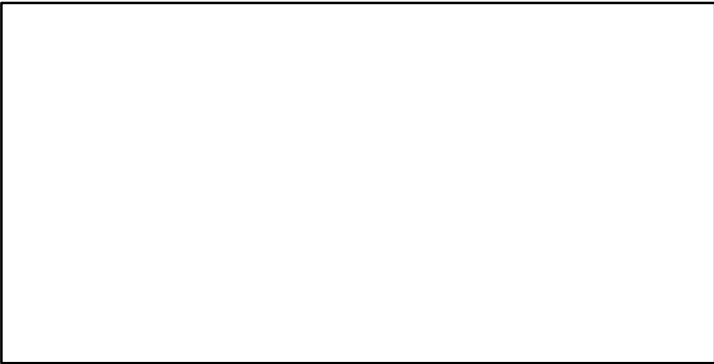
TN *



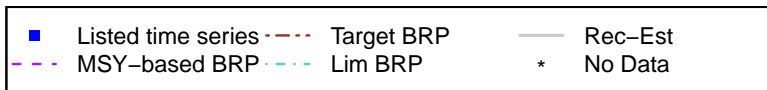
F*



ER*



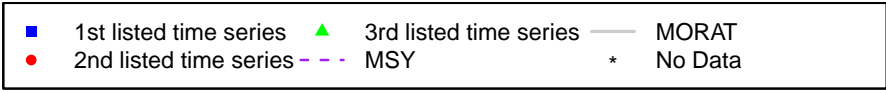
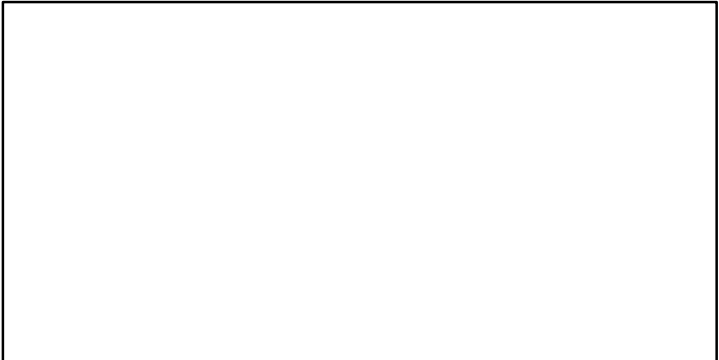
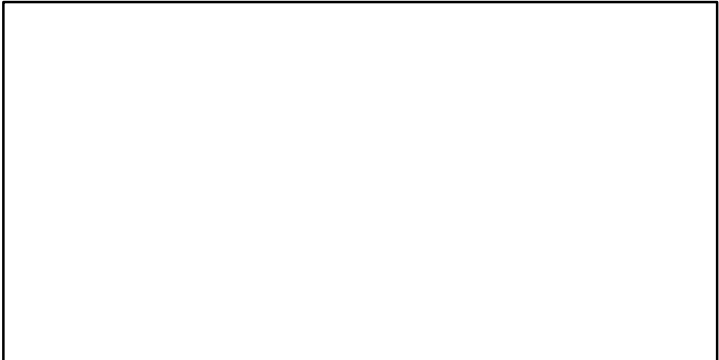
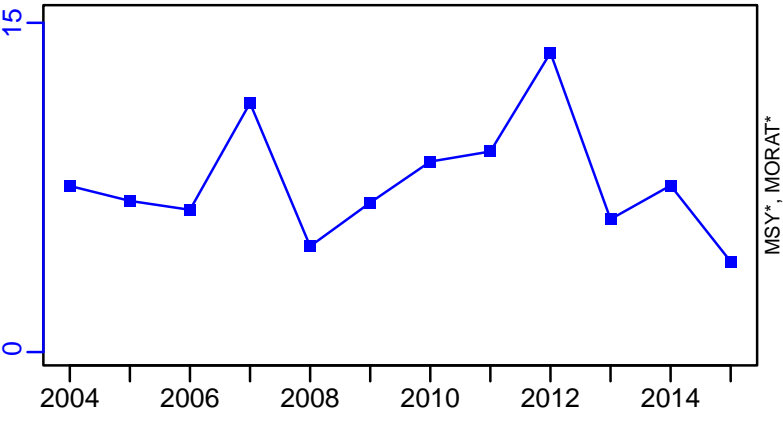
Recruits*



Whitesaddle goatfish Main Hawaiian Islands [WSGTFMHI]

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

TAC*, Cpair*, Cadv*



Yellowedge grouper Gulf of Mexico [YEGROUPGM]

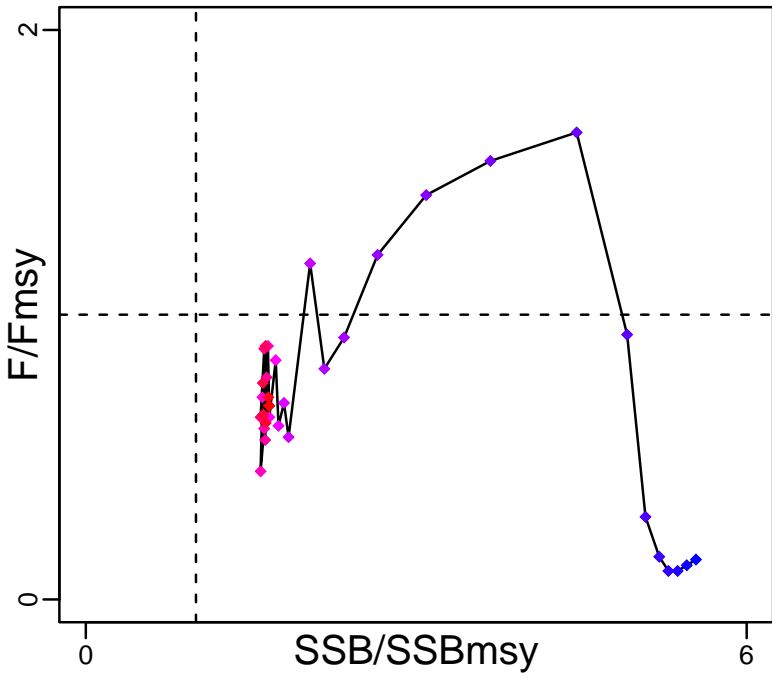
Metadata	
Scientific Name	Epinephelus flavolimbatus
Current Assess ID	SEFSC-YEGROUPGM-1975-2009-HIVELY
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2009

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

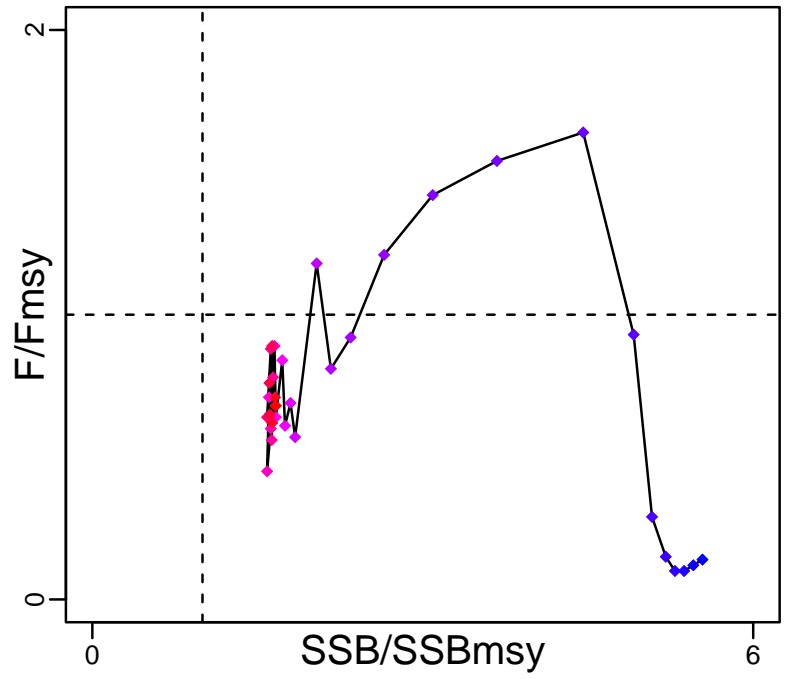
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	5530	-	-
SSB	SSB-MT	2009	4000	Both	8+
TN	-	-	-	-	-
R	R-E00	2009	801,000	-	-
F	F-1/yr	2009	0.068	-	-
ER	ER-calc-ratio	2009	0.068	-	-
TC	-	-	-	-	-
TL	TL-MT	2009	376	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	1.666	-	-
F/Fmsy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

Yellowedge grouper Gulf of Mexico [YEGROUPGM]

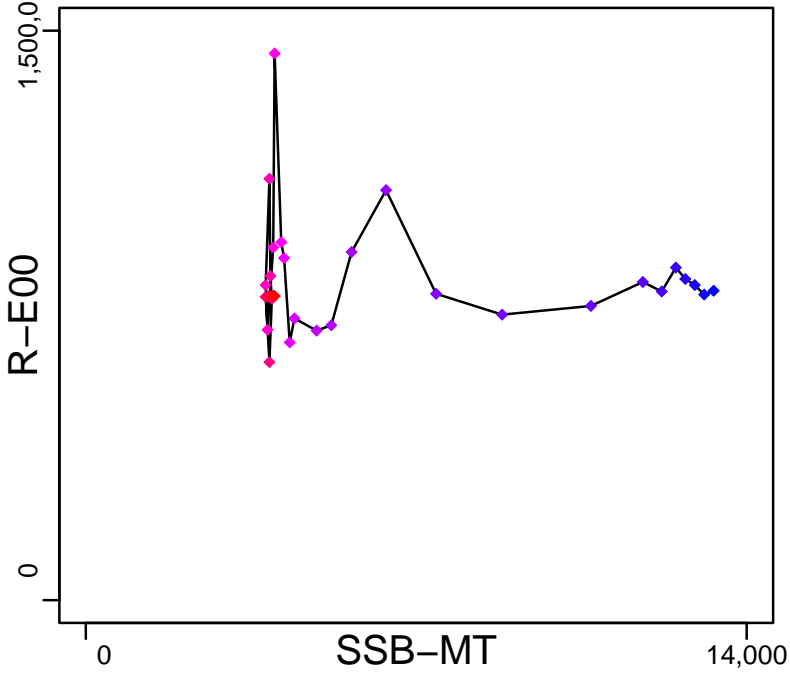
Kobe MSYpref (1975–2009–HIVELY)



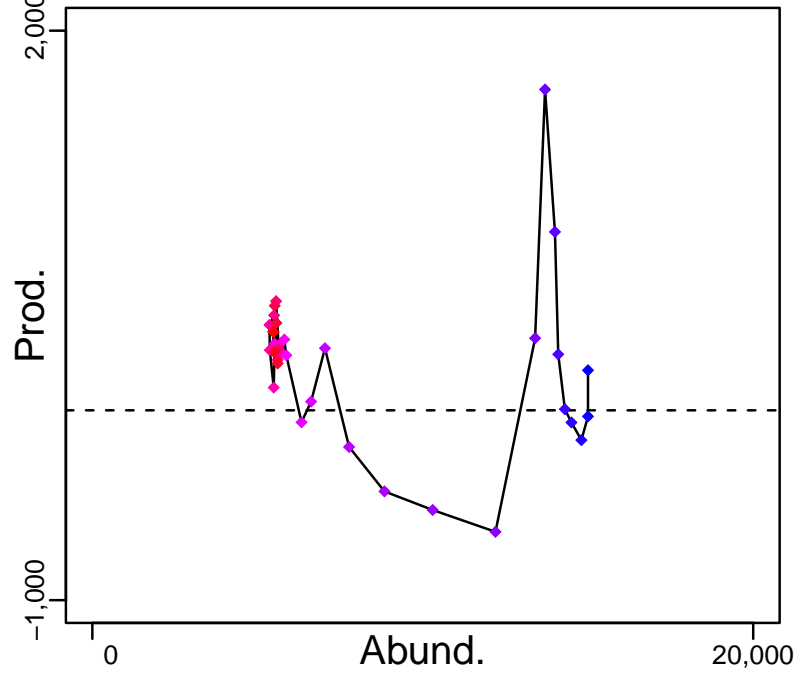
Kobe MGTpref (1975–2009–HIVELY)



Spawner Recruit (1975–2009–HIVELY)



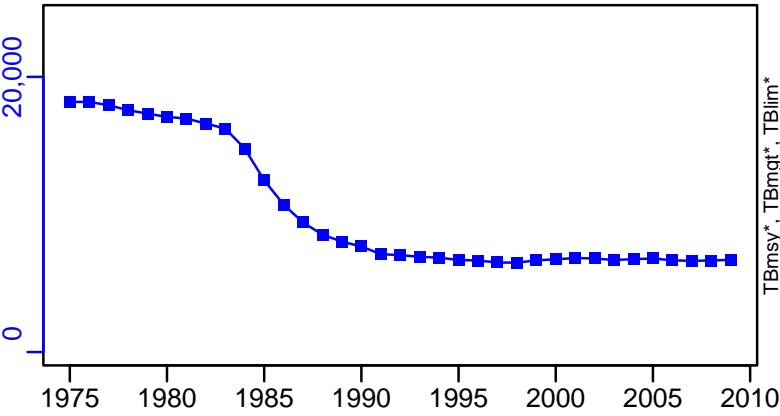
Production (1975–2009–HIVELY)



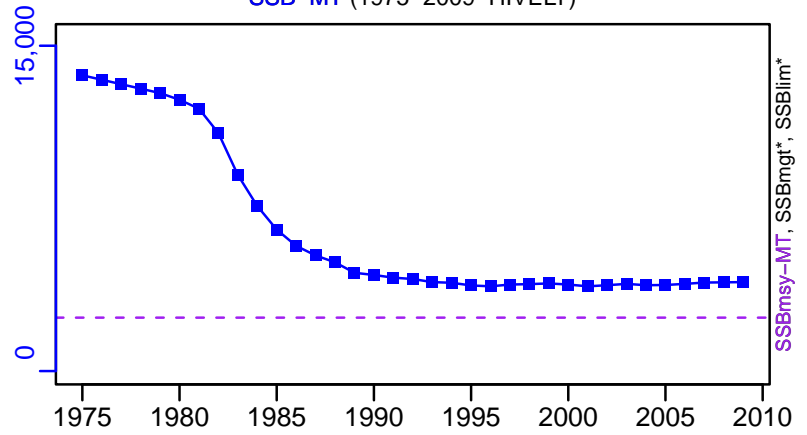
◆ Start Year ◆ End Year * No Data

Yellowedge grouper Gulf of Mexico [YEGROUPGM]

TB-MT (1975-2009-HIVELY)



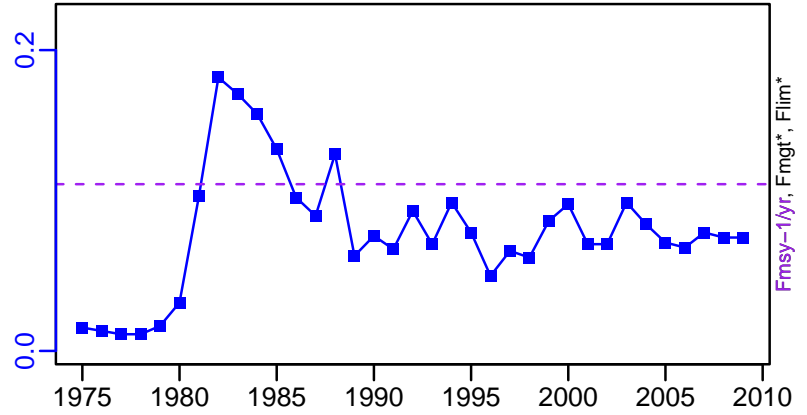
SSB-MT (1975-2009-HIVELY)



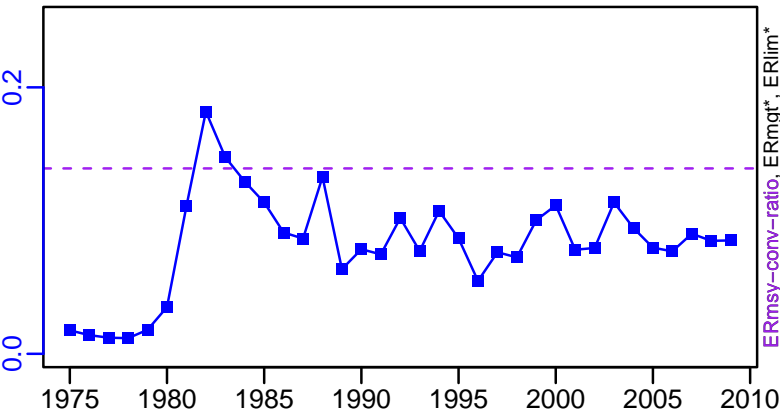
TN *



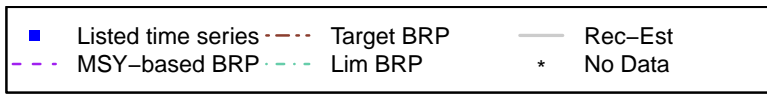
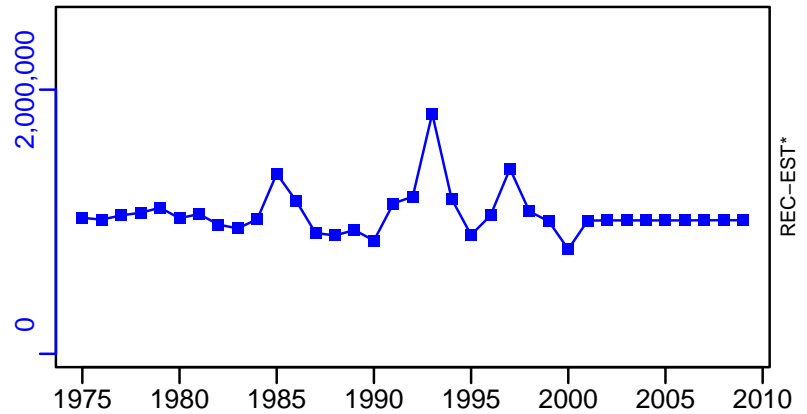
F-1/yr (1975-2009-HIVELY)



ER-calc-ratio (1975-2009-HIVELY)



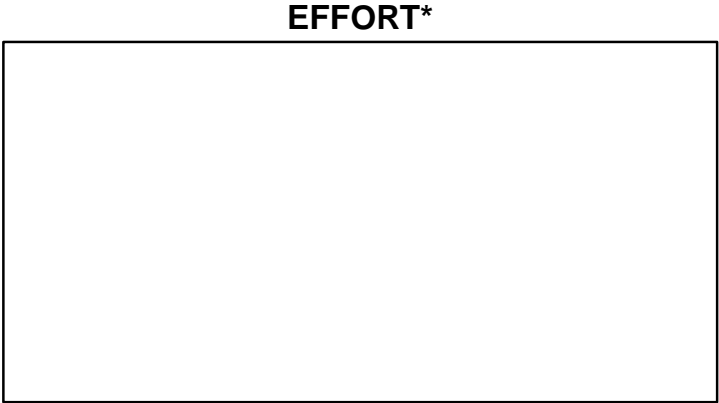
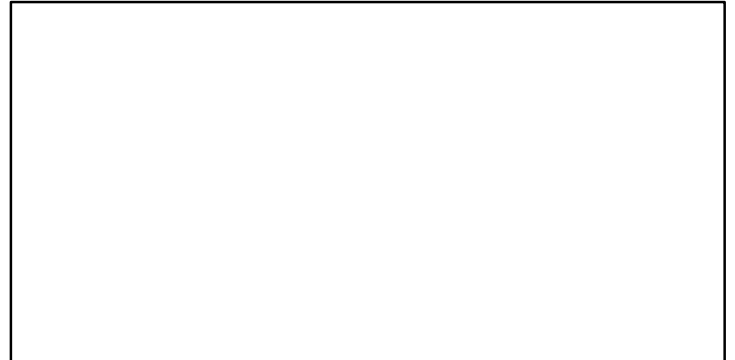
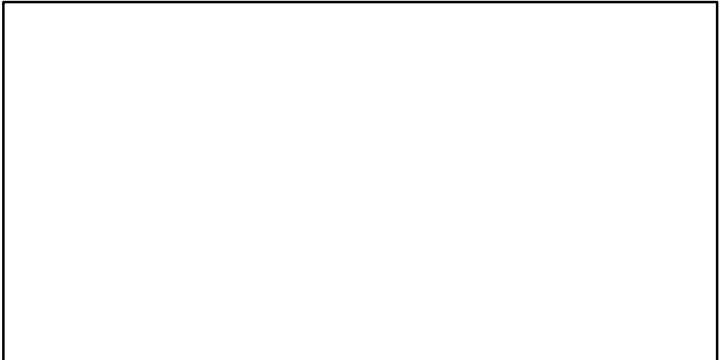
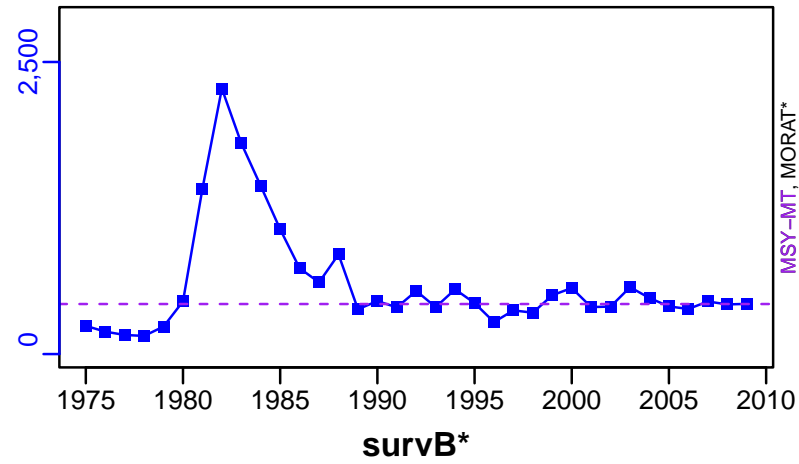
R-E00 (1975-2009-HIVELY)



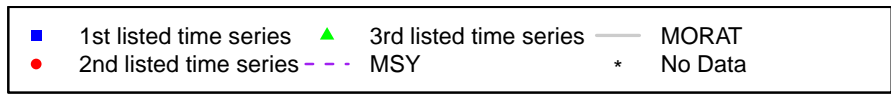
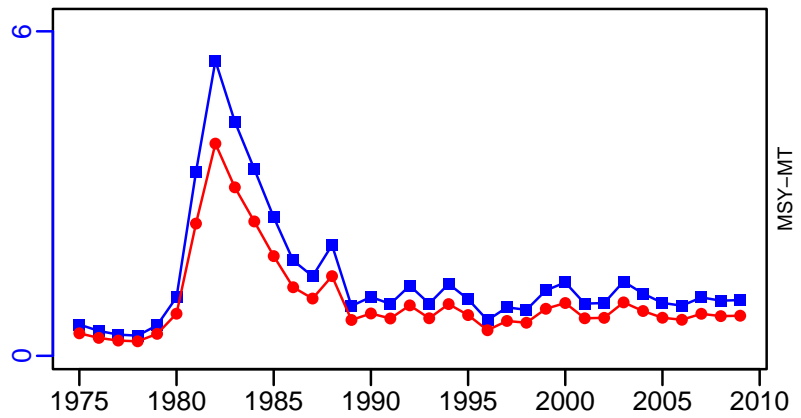
Yellowedge grouper Gulf of Mexico [YEGROUPGM]

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

TAC*, Cpair*, Cadv*



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



Yellowfin goatfish Main Hawaiian Islands [YFGTFMHI]

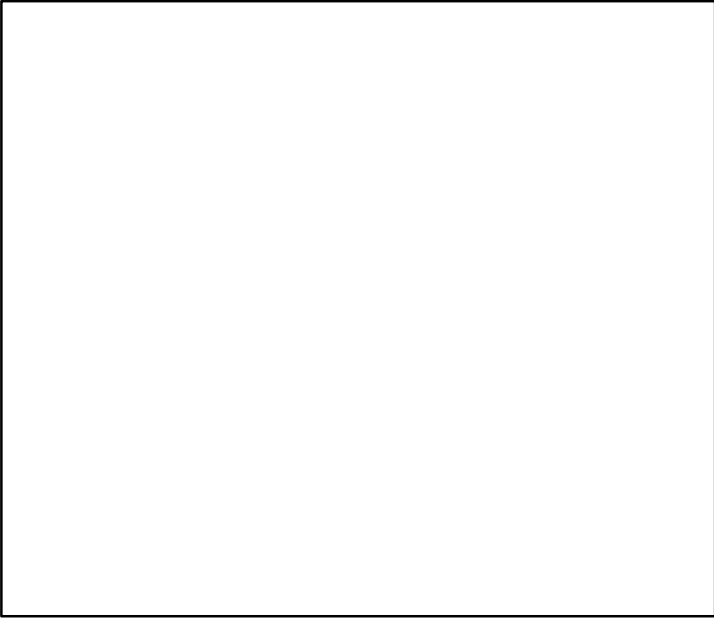
Metadata	
Scientific Name	Mulloides vanicolensis
Current Assess ID	PIFSC-YFGTFMHI-2004-2015-SISIMP2021
Area	Main Hawaiian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fisheries Science Center
Asmts in RAM	2015

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

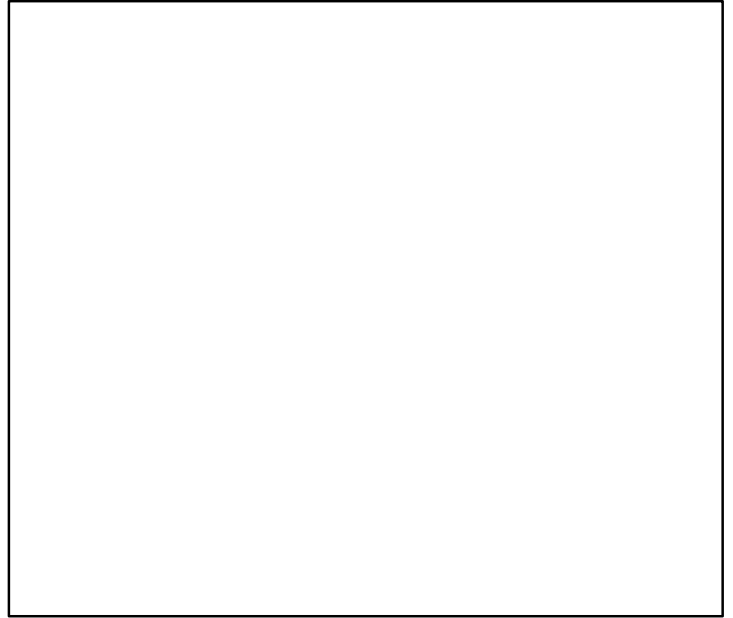
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	182		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowfin goatfish Main Hawaiian Islands [YFGTFMHI]

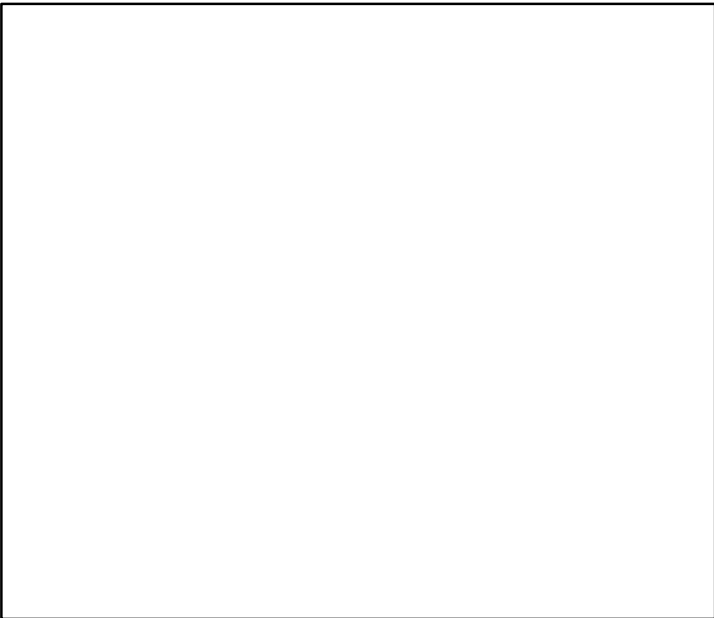
Kobe MSY*



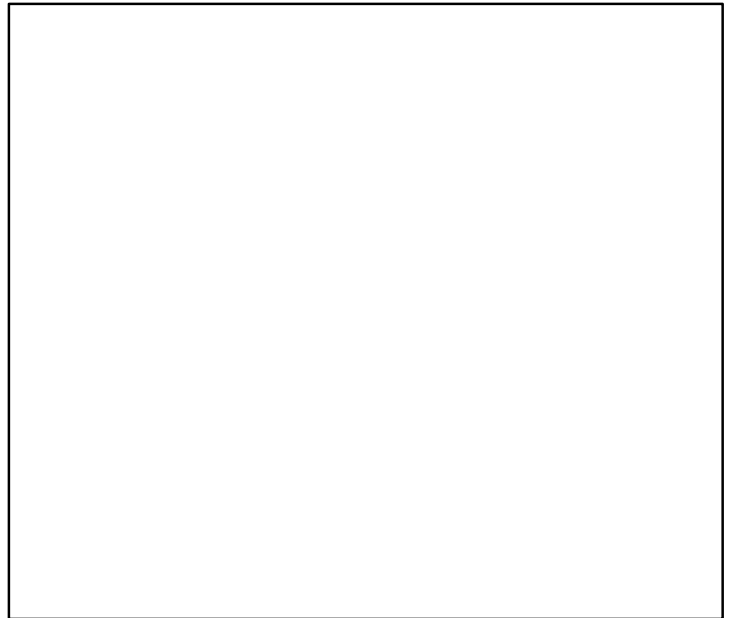
Kobe MGT*



Spawner Recruit*



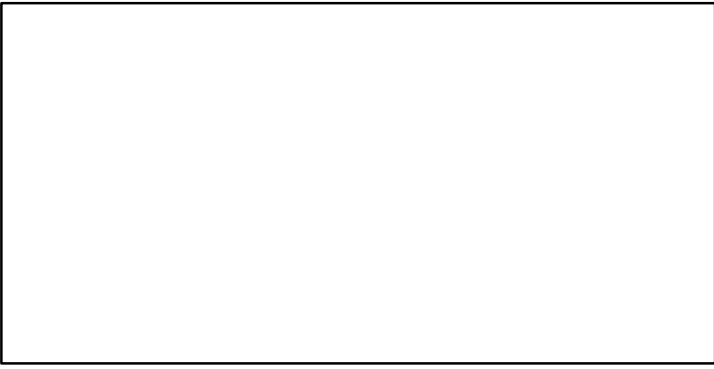
Production*



◆ Start Year ◆ End Year * No Data

Yellowfin goatfish Main Hawaiian Islands [YFGTFMHI]

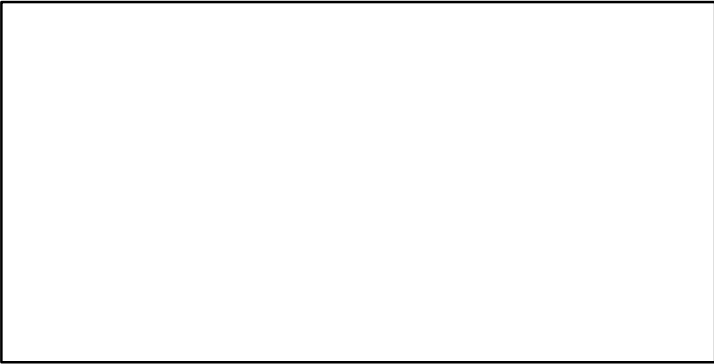
TB*



SSB*



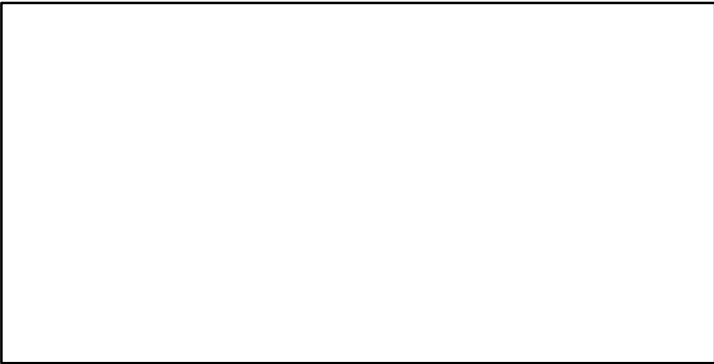
TN *



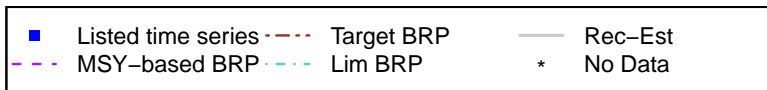
F*



ER*



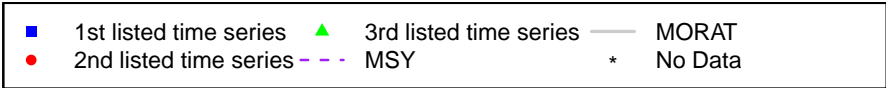
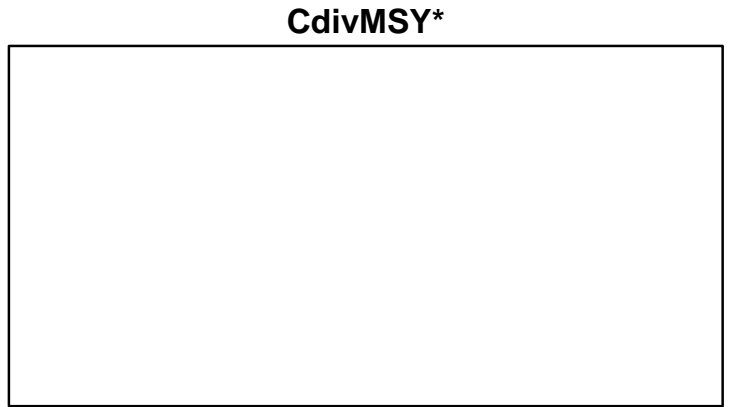
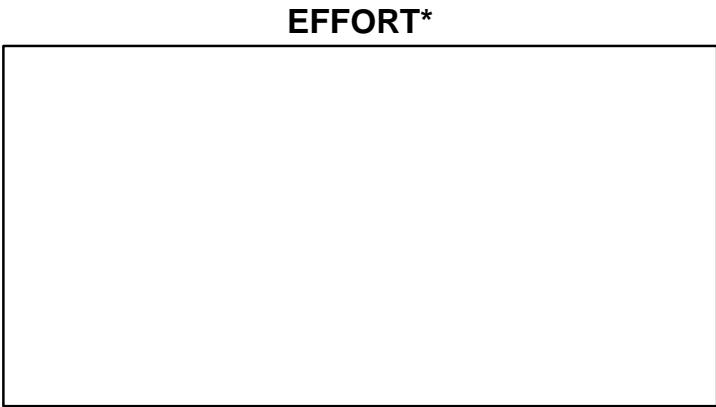
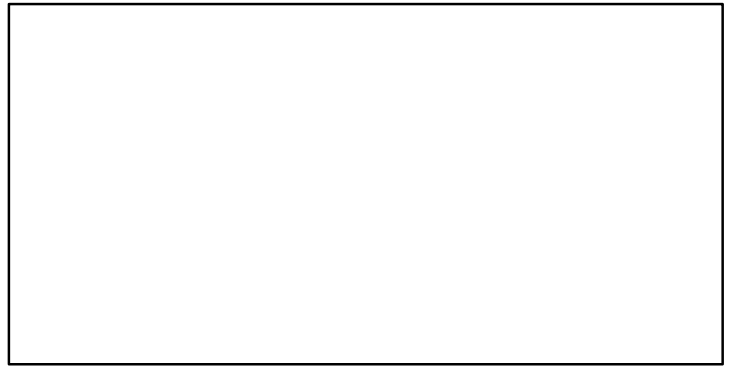
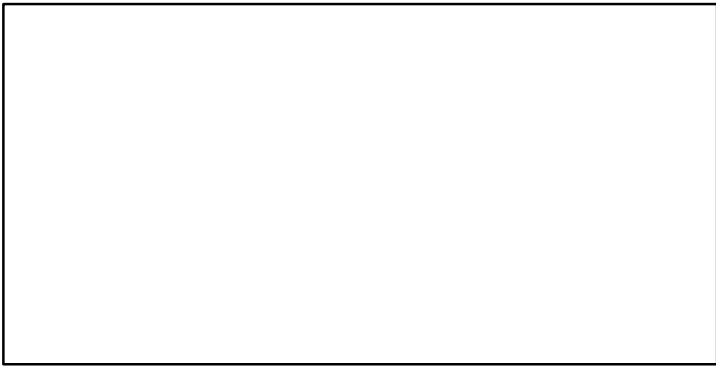
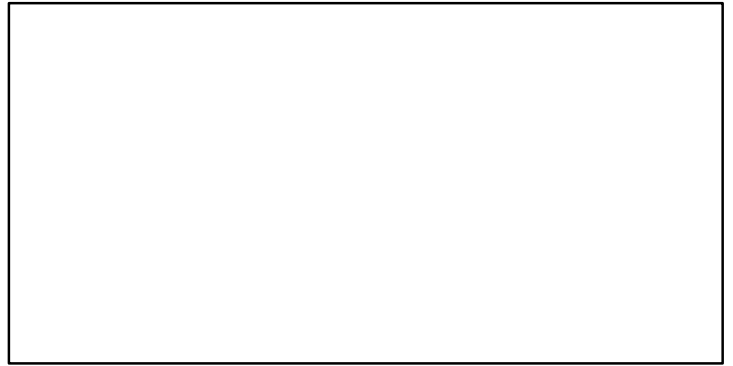
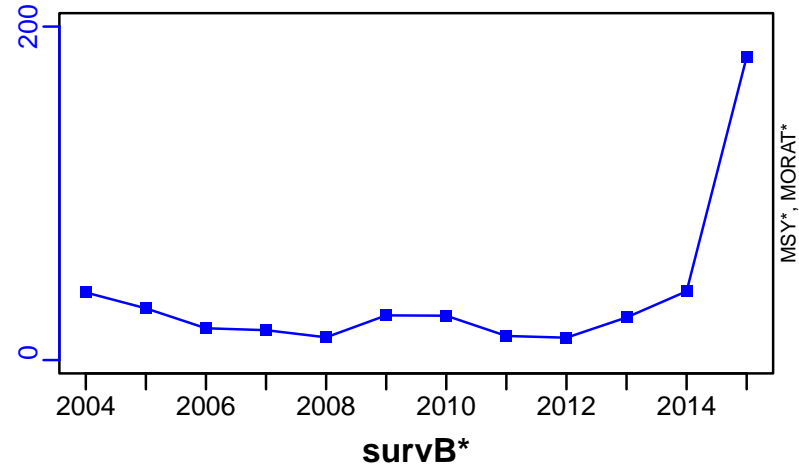
Recruits*



Yellowfin goatfish Main Hawaiian Islands [YFGTFMHI]

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

TAC*, Cpair*, Cadv*



Yellowstripe goatfish Main Hawaiian Islands [YSGTFMHI]

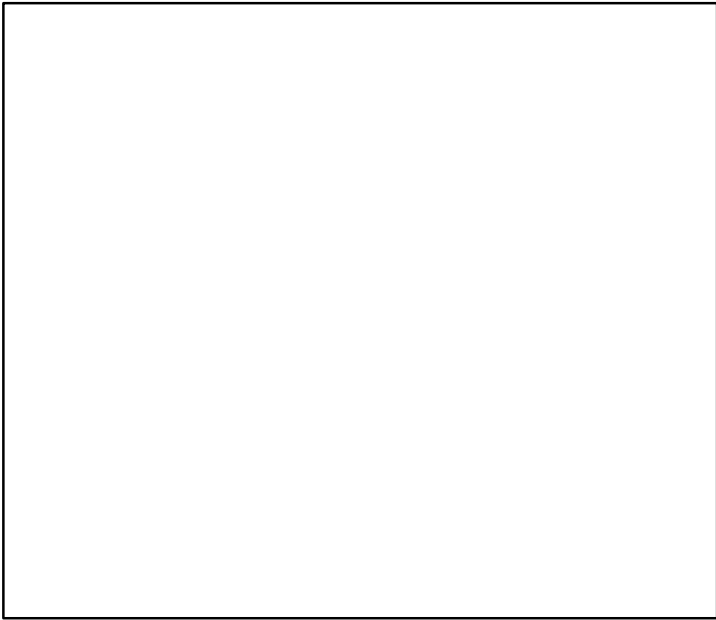
Metadata	
Scientific Name	Mulloidichthys flavolineatus
Current Assess ID	PIFSC-YSGTFMHI-2004-2015-SISIMP2021
Area	Main Hawaiian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fisheries Science Center
Asmts in RAM	2015

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

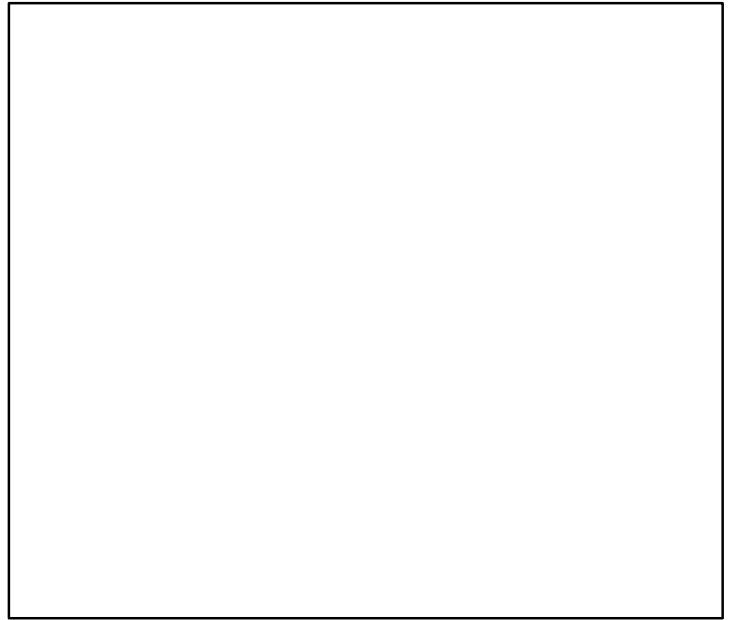
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	129		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowstripe goatfish Main Hawaiian Islands [YSGTFMHI]

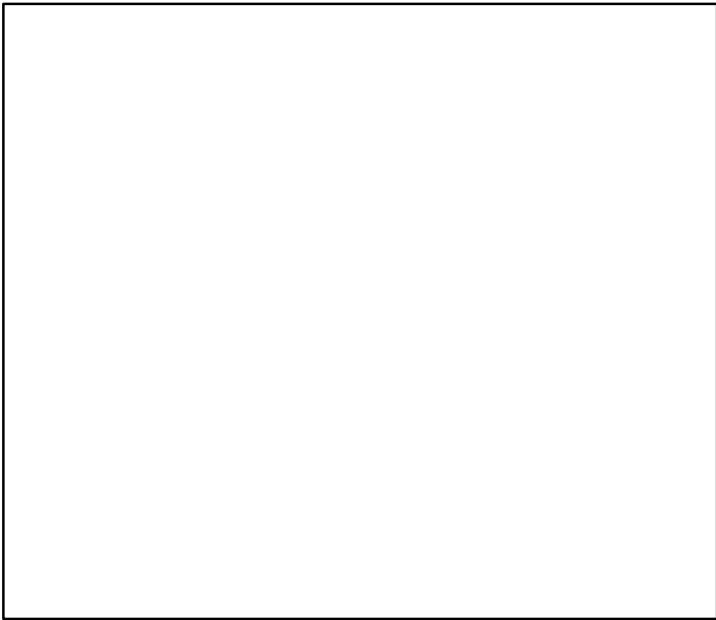
Kobe MSY*



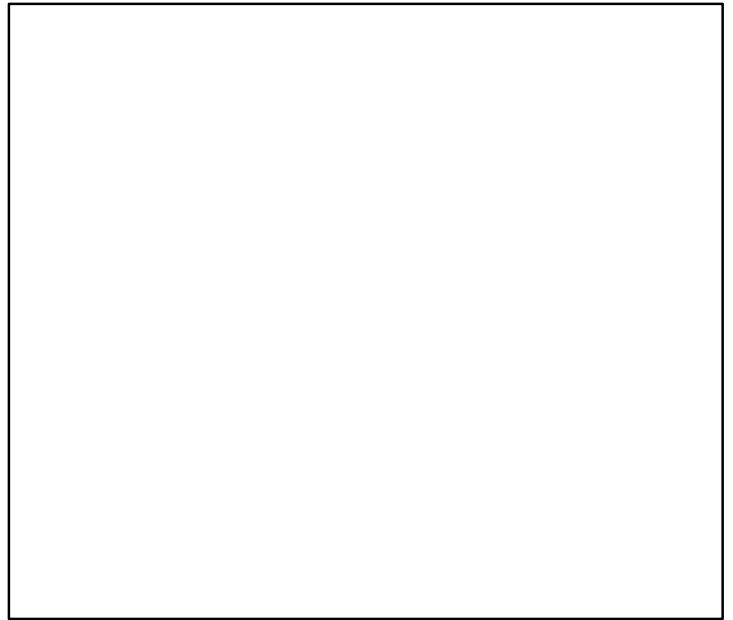
Kobe MGT*



Spawner Recruit*



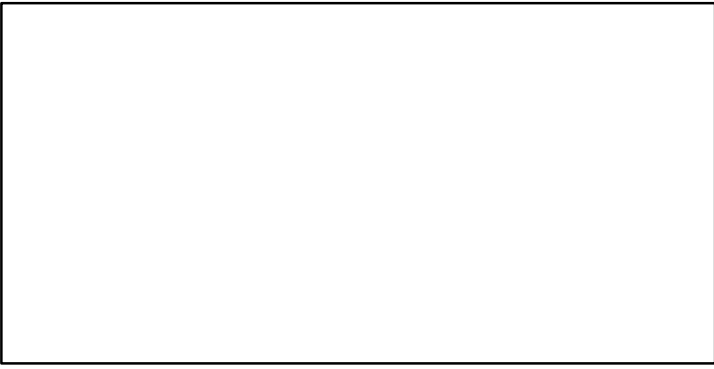
Production*



◆ Start Year ◆ End Year * No Data

Yellowstripe goatfish Main Hawaiian Islands [YSGTFMHI]

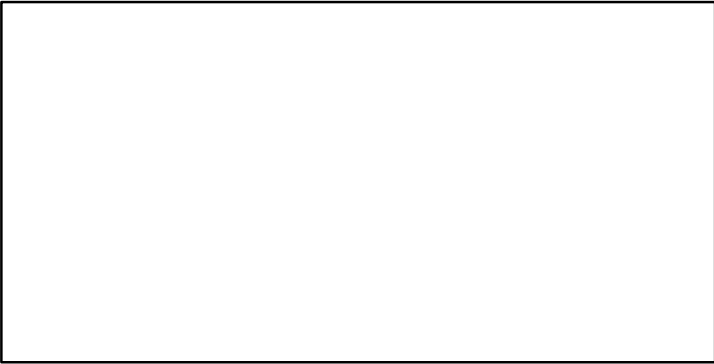
TB*



SSB*



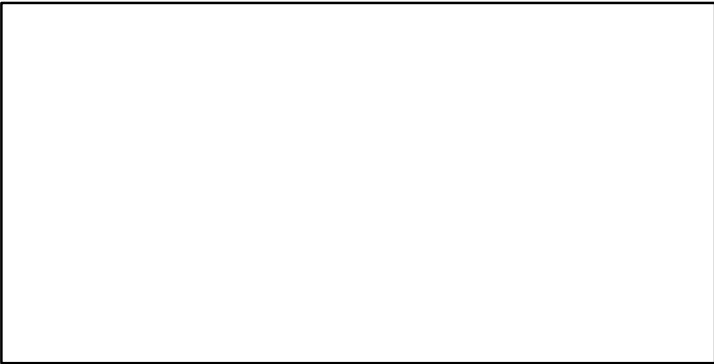
TN *



F*



ER*



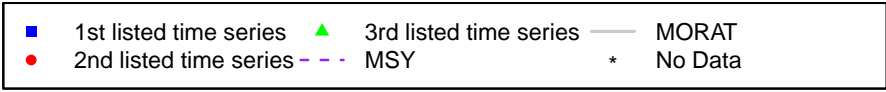
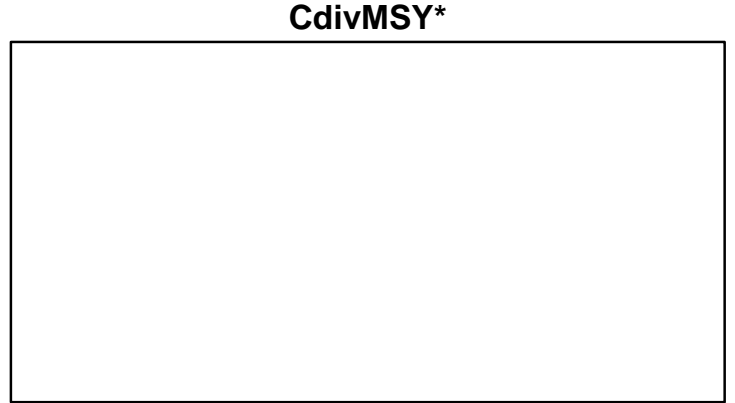
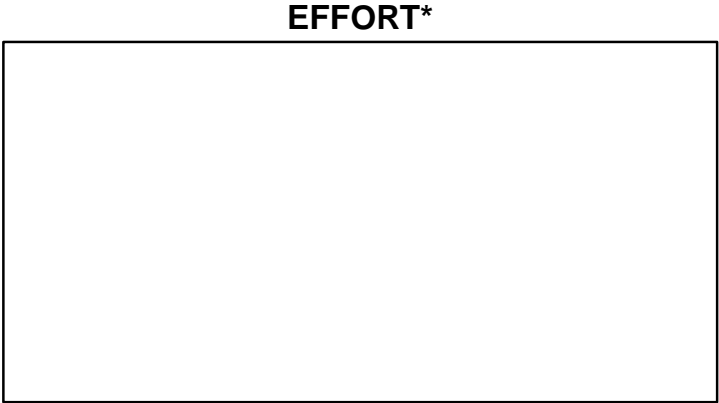
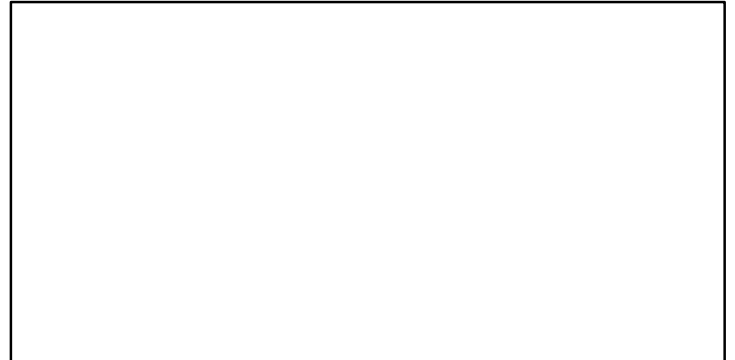
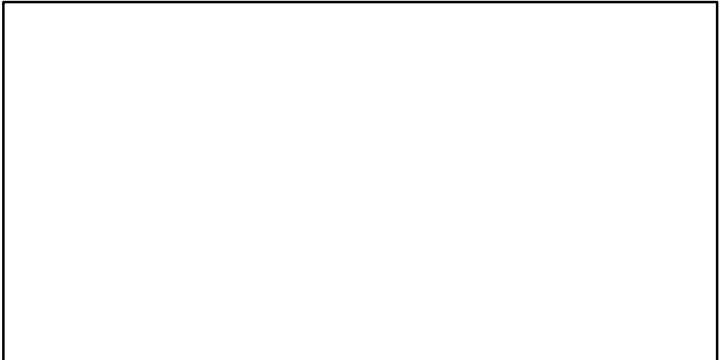
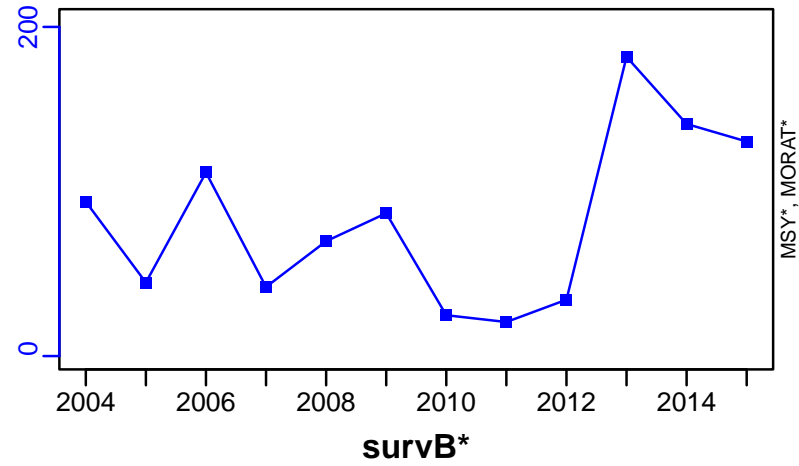
Recruits*



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

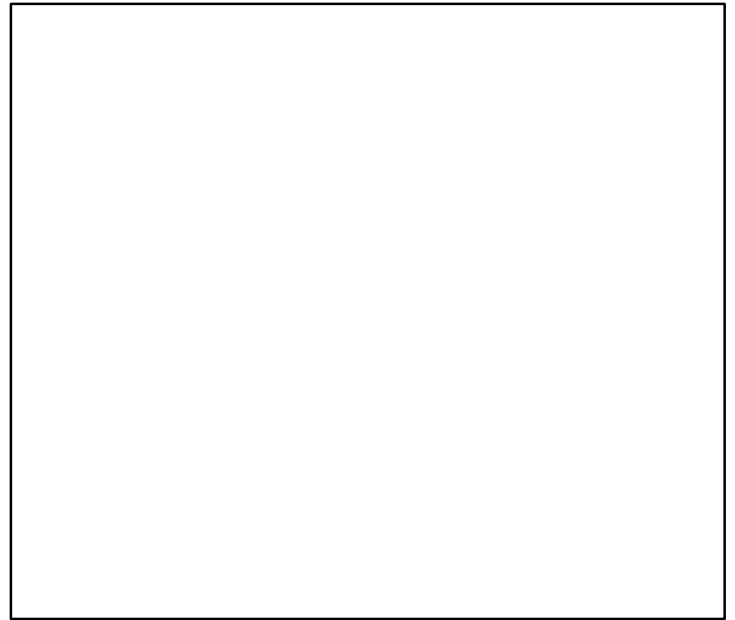
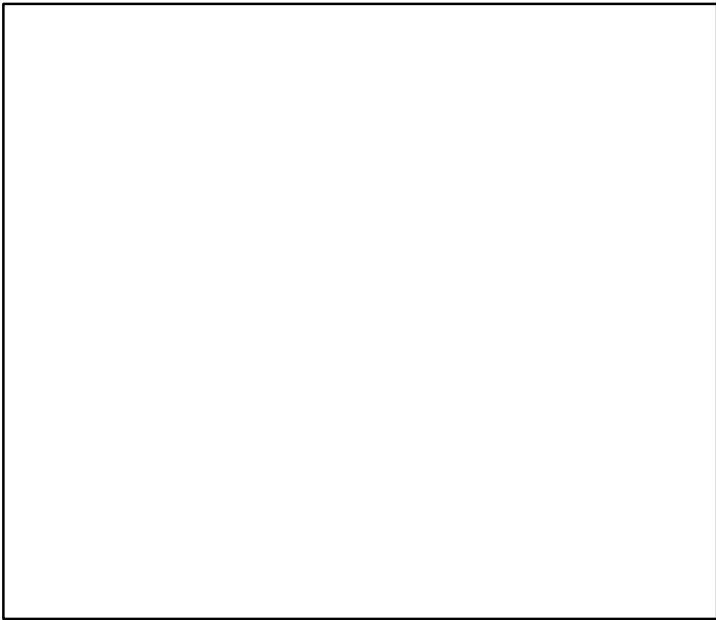
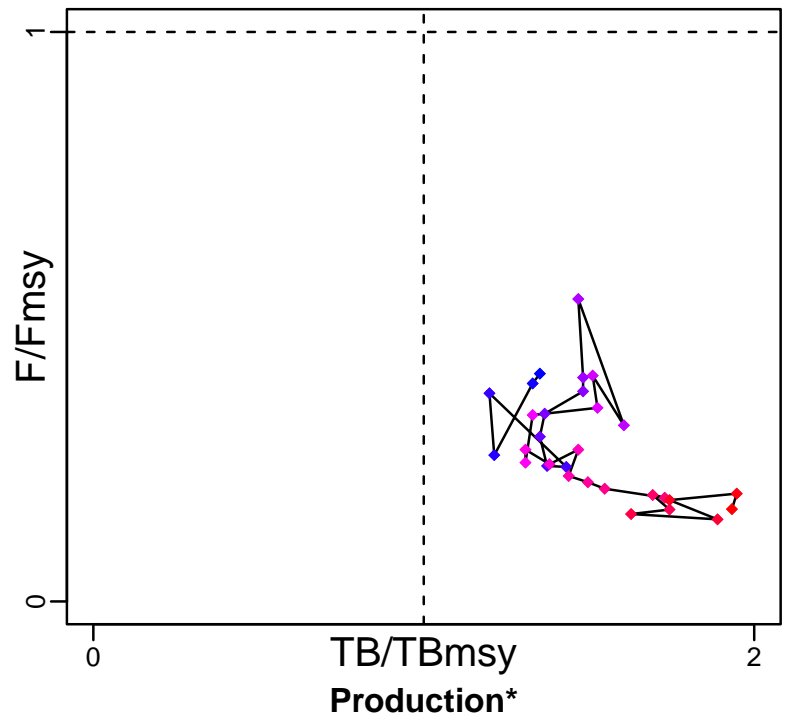
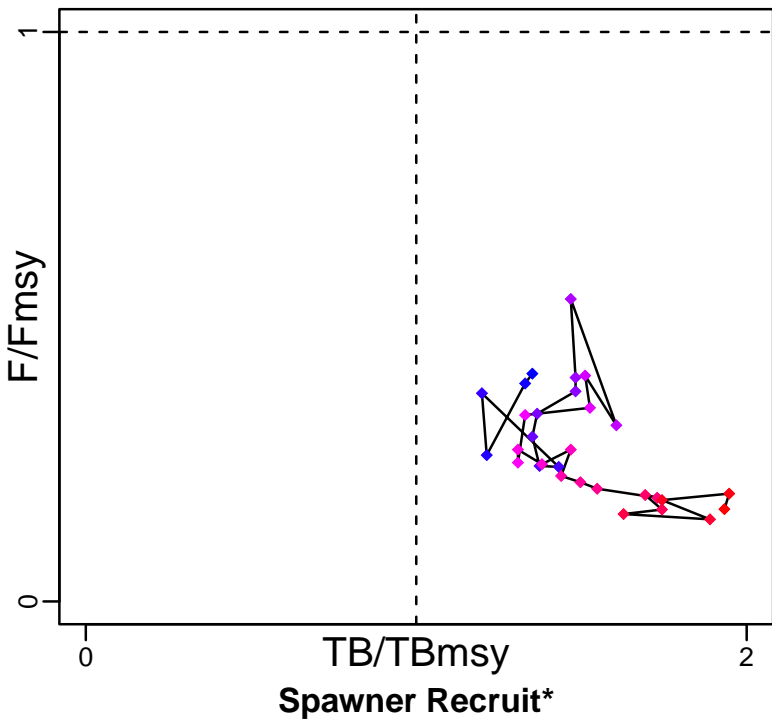
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-pr-1/yr	2011	0.29
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2011	1700
M	M-1/yr	2011	0.19
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-	-	-

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

Kobe MSYpref (1950–2011–HIVELY)

Kobe MGTpref (1950–2011–HIVELY)

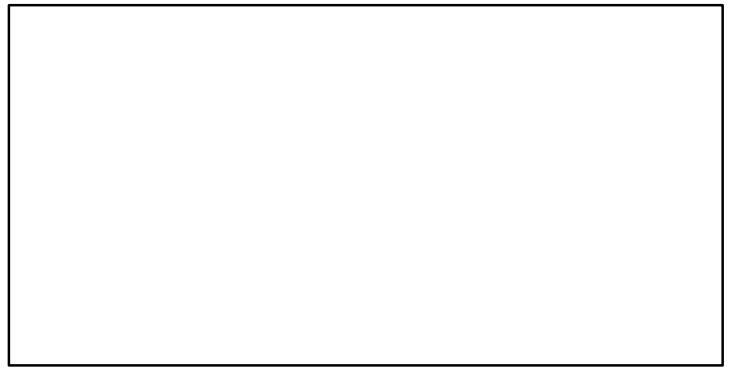
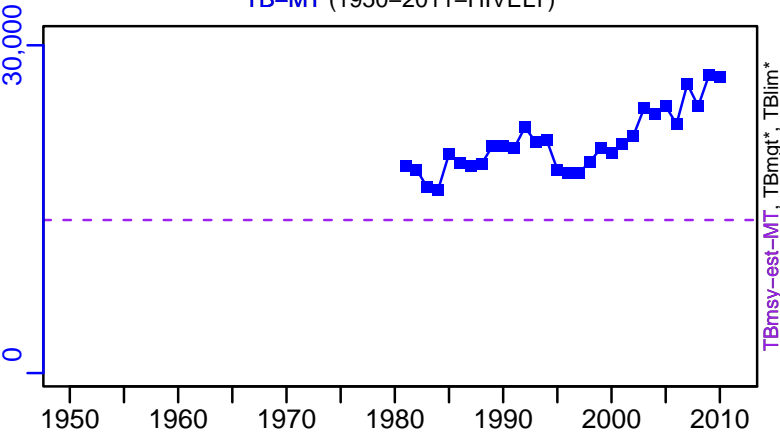


◆ Start Year ◆ End Year * No Data

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

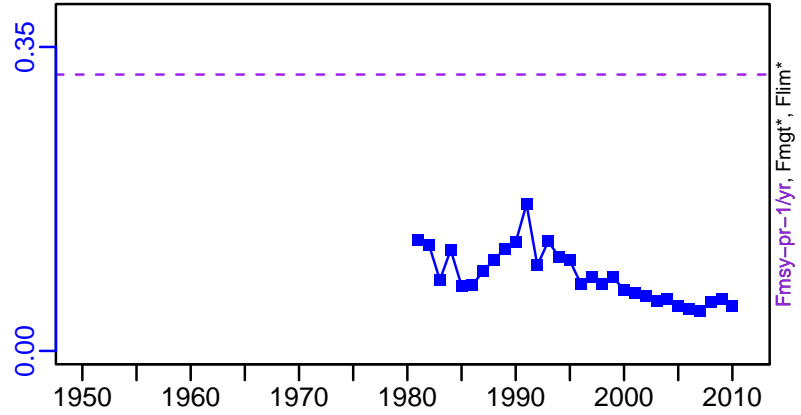
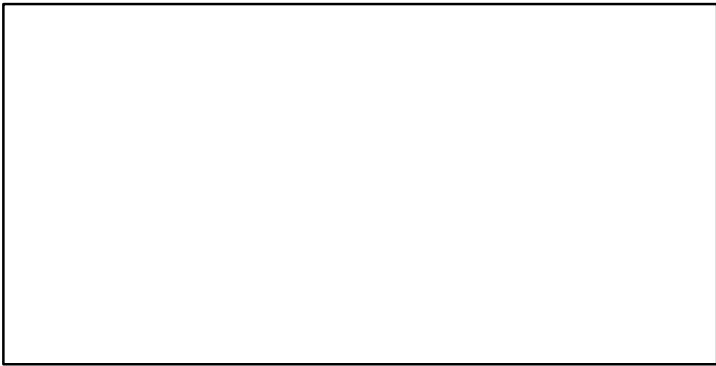
TB-MT (1950-2011-HIVELY)

SSB*



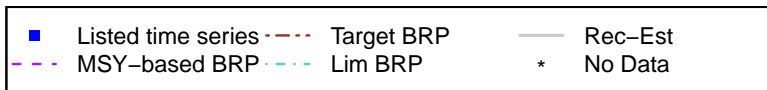
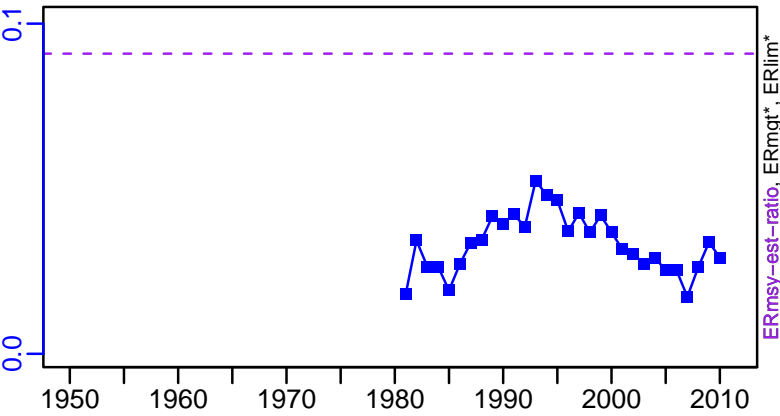
TN *

F-1/yr (1950-2011-HIVELY)



ER-calc-ratio (1950-2011-HIVELY)

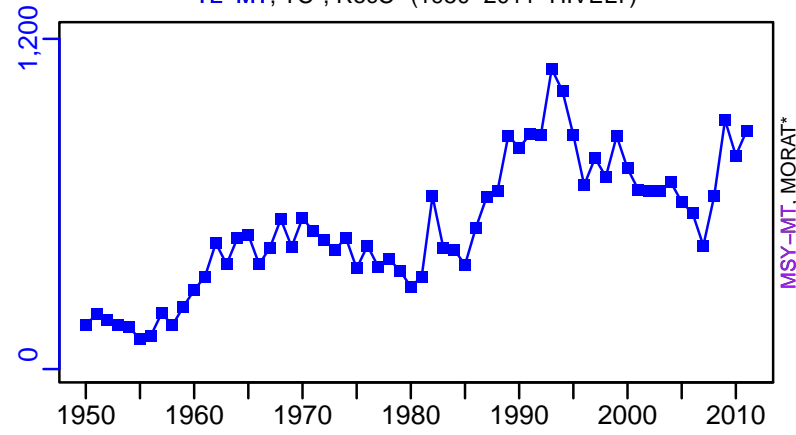
Recruits*



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

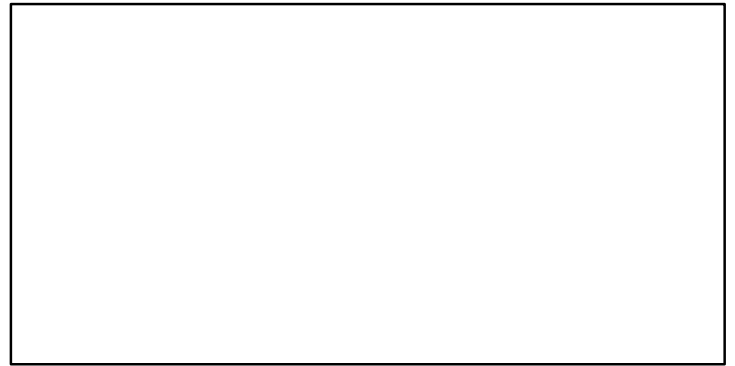
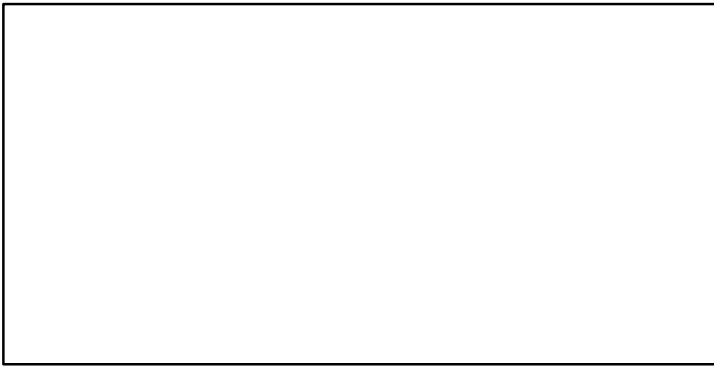
TL-MT, TC*, RecC* (1950-2011-HIVELY)

TAC*, Cpair*, Cadv*



survB*

CPUE*



EFFORT*

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

