

# US Southeast and Gulf Stocks

## v4.63 (Dec-07-2023)

Not present Present Preferred

Stock	Time Series Types			
	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
1. BHEADSHARATL [Bonnethead shark Atlantic]	TB SSB	ER F	TB SSB	ER F
2. BLACKGROUPEGMSATL [Black grouper Gulf of Mexico and South Atlantic]	TB SSB	ER F	TB SSB	ER F
3. BLTILESATLC [Blueline tilefish Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
4. BNOSESHARATL [Blacknose shark Atlantic]	TB SSB	ER F	TB SSB	ER F
5. BRNSHRIMPGM [Brown shrimp Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
6. BSBASSSATL [Black sea bass South Atlantic]	TB SSB	ER F	TB SSB	ER F
7. BTIPSHARATL [Blacktip shark Atlantic]	TB SSB	ER F	TB SSB	ER F
8. BTIPSHARGM [Blacktip shark Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
9. COBGM [Cobia Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
10. COBSATLC [Cobia Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
11. CSLOBSTERPR [Caribbean spiny lobster Puerto Rico]	TB SSB	ER F	TB SSB	ER F
12. CSLOBSTERSTC [Caribbean spiny lobster Saint Croix]	TB SSB	ER F	TB SSB	ER F
13. CSLOBSTERSTT_STJ [Caribbean spiny lobster Saint Thomas / Saint John]	TB SSB	ER F	TB SSB	ER F
14. DSKSHARGMATL [Dusky shark Gulf of Mexico and Atlantic]	TB SSB	ER F	TB SSB	ER F
15. FTOOTHSHARATL [Finetooth shark Atlantic]	TB SSB	ER F	TB SSB	ER F
16. GAGGM [Gag Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
17. GAGSATLC [Gag Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
18. GLGROUPEGMSATLCGM [Goliath grouper Southern Atlantic coast and Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
19. GRAMBERGM [Greater amberjack Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
20. GRAMBERSATLC [Greater amberjack Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
21. GRSNAPGM [Gray snapper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
22. GTRIGGM [Gray triggerfish Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
23. KMACKGM [King mackerel Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
24. KMACKSATLC [King mackerel Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
25. LNSNAPGM [Lane snapper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
26. MENATGM [Gulf menhaden Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
27. MUTSNAPSATLCGM [Mutton snapper Southern Atlantic coast and Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
28. PINKSHRIMPGM [Pink shrimp Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
29. RGROUPEGMSATLCGM [Red grouper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
30. RGROUPEGMSATL [Red grouper South Atlantic]	TB SSB	ER F	TB SSB	ER F
31. RPORGYSATLC [Red porgy Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
32. RRSRIMPGM [Royal red shrimp Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
33. RSNAPGM [Red snapper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
34. RSNAPSATLC [Red snapper Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
35. SBARSHARATL [Sandbar shark Atlantic]	TB SSB	ER F	TB SSB	ER F

36. SKSNAPCARIB [Silk snapper Caribbean]	TB SSB	ER F	TB SSB	ER F
37. SNOSESHARATL [Atlantic sharpnose shark Atlantic]	TB SSB	ER F	TB SSB	ER F
38. SNOWGROUPSATLC [Snowy grouper Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
39. SPANMACKGM [Spanish mackerel Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
40. SPANMACKSATLC [Spanish mackerel Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
41. TILEGM [Tilefish Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
42. TILESATLC [Tilefish Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
43. VSNAPGM [Vermilion snapper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
44. VSNAPSATLC [Vermilion snapper Southern Atlantic coast]	TB SSB	ER F	TB SSB	ER F
45. WSHRIMPGM [White shrimp Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
46. YEGROUPGM [Yellowedge grouper Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
47. YTSNAPSATLCGM [Yellowtail snapper Southern Atlantic coast and Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F

## Bonnethead shark Atlantic [BHEADSHARATL]

Metadata	
<b>Scientific Name</b>	Sphyrna tiburo
<b>Current Assess ID</b>	SEFSC-BHEADSHARATL-1950-2011-HIVELY
<b>Area</b>	Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011

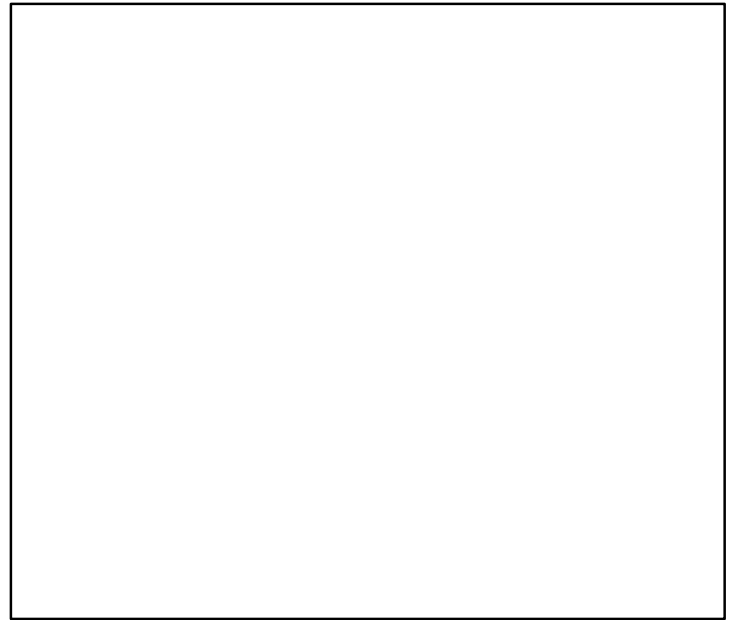
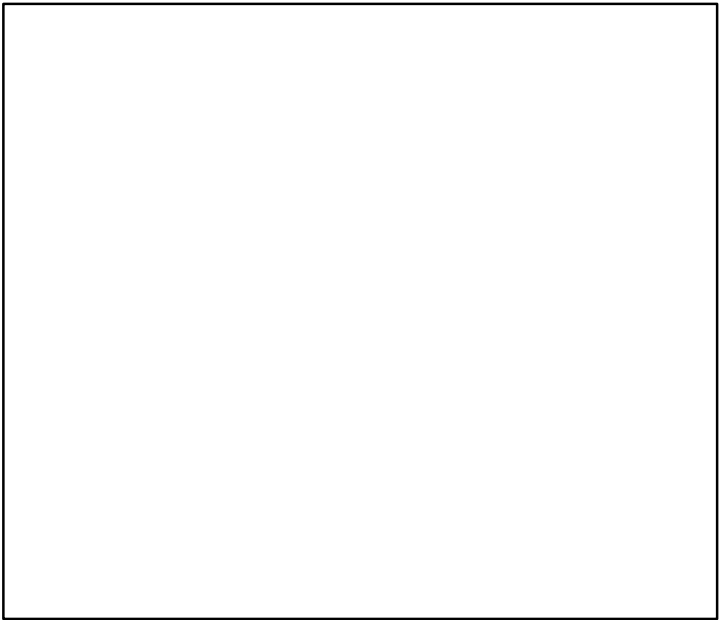
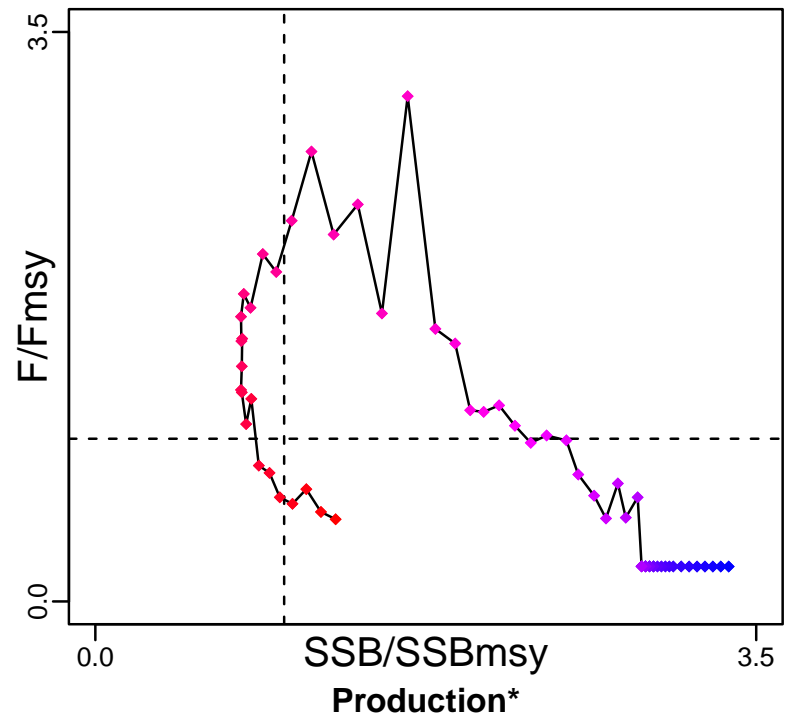
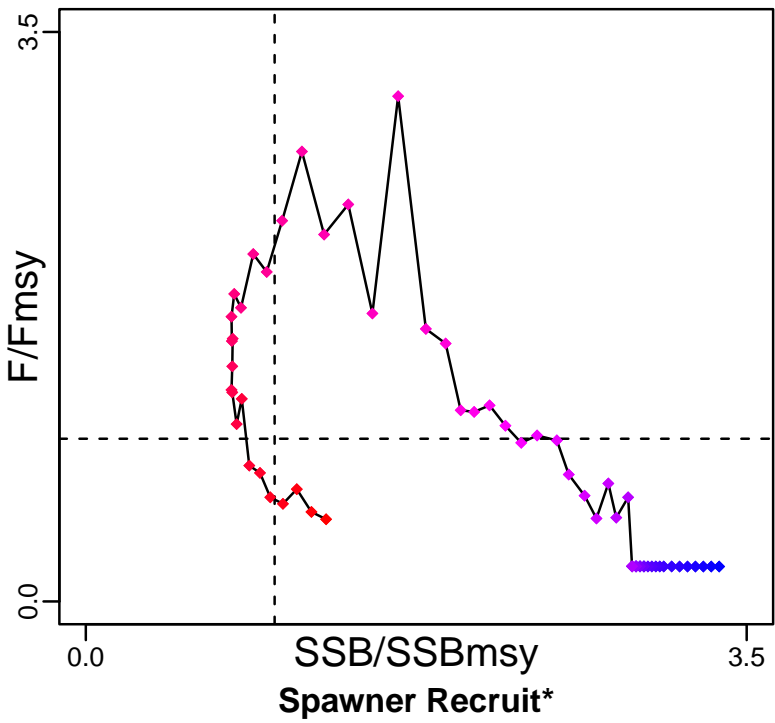
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSFmsy-E00	2011	4,770,000
<b>Fmsy</b>	Fmsy-1/yr	2011	0.2
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-E00	2011	589,000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSF-E00	2011	6,070,000	-	-
<b>TN</b>	TN-E00	2011	4,890,000	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2011	0.101	-	-
<b>ER</b>	ER-calc-ratio	2011	0.075	-	-
<b>TC</b>	TC-E00	2011	369,000		
<b>TL</b>	TL-MT	2011	19		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSF-E00/SSFmsy-E00	2011	1.273		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2011	0.505		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Bonnethead shark Atlantic [BHEADSHARATL]

Kobe MSYpref (1950–2011–HIVELY)

Kobe MGTpref (1950–2011–HIVELY)



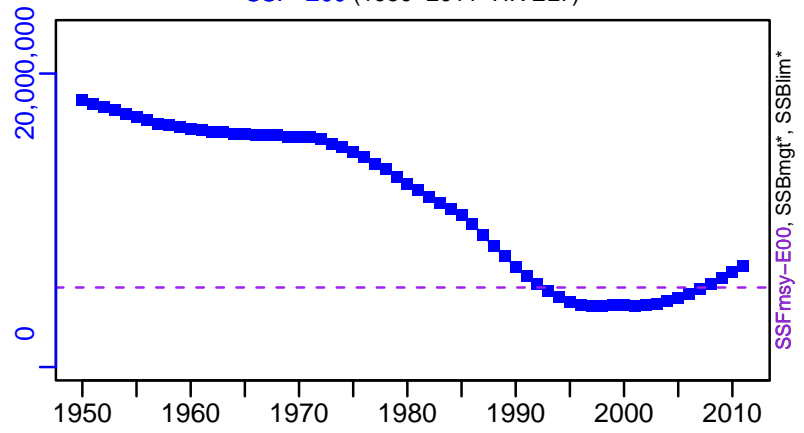
◆ Start Year ◆ End Year \* No Data

Bonnethead shark Atlantic [BHEADSHARATL]

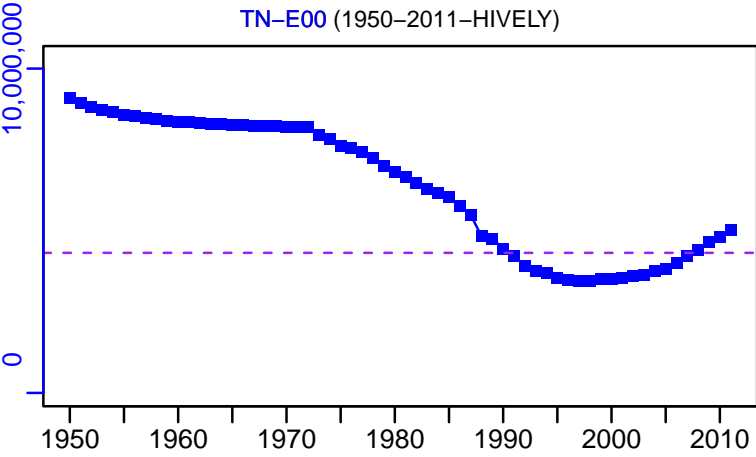
TB\*



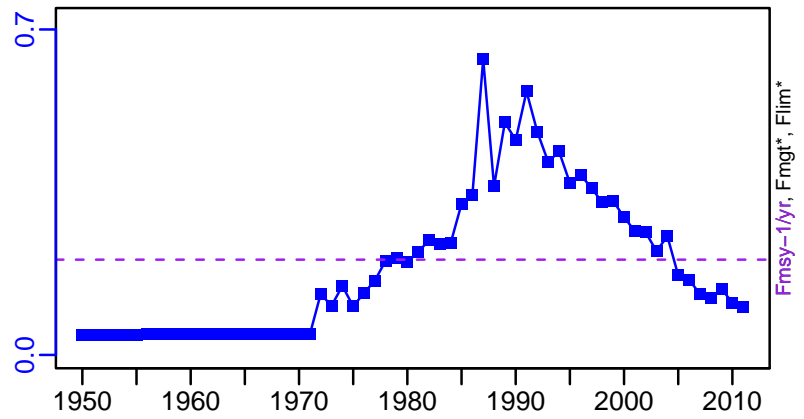
SSF-E00 (1950-2011-HIVELY)



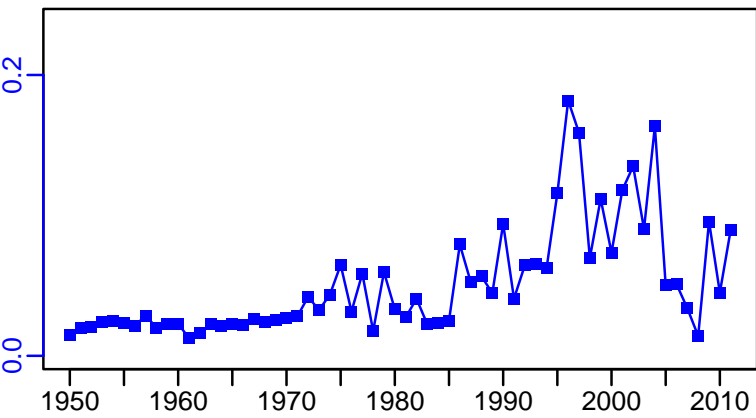
TN-E00 (1950-2011-HIVELY)



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



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



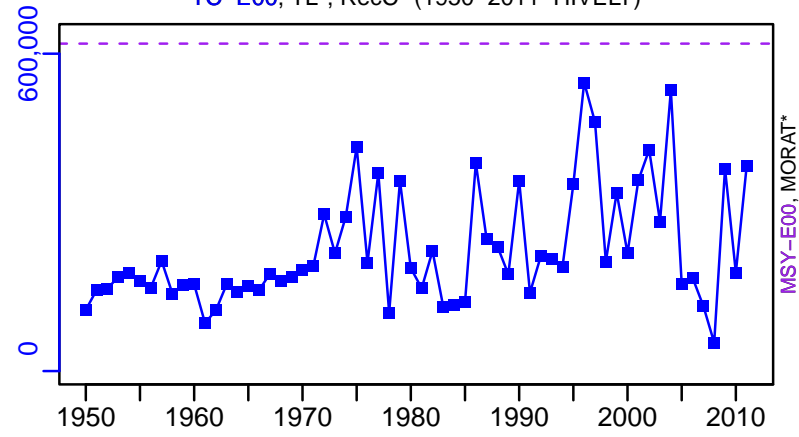
Recruits\*



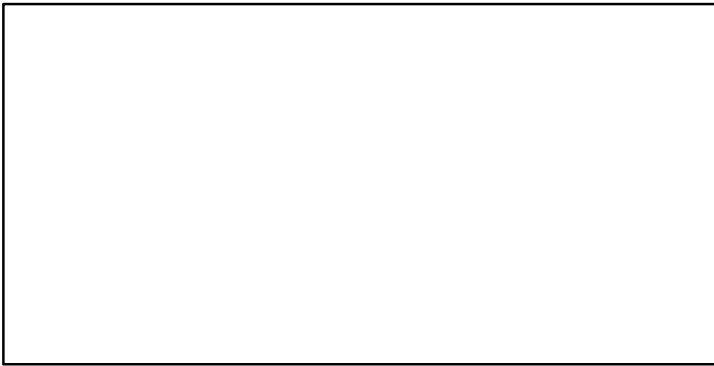
Bonnethead shark Atlantic [BHEADSHARATL]

TC-E00, TL\*, RecC\* (1950-2011-HIVELY)

TAC\*, Cpair\*, Cadv\*



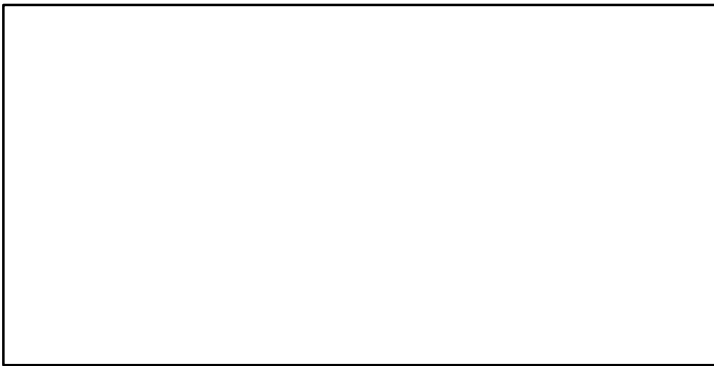
survB\*



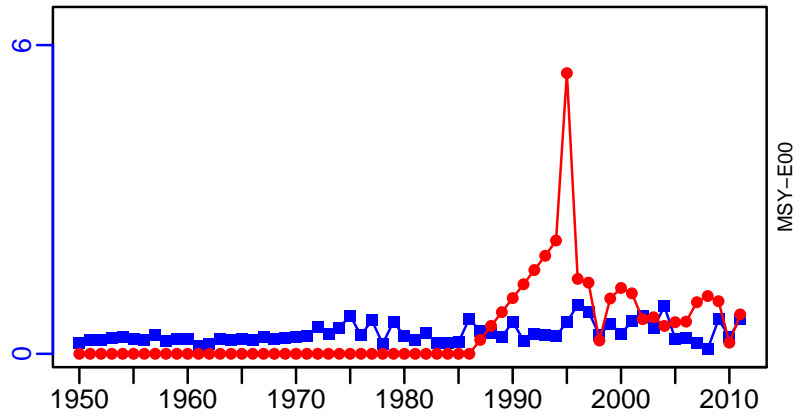
CPUE\*



EFFORT\*



TC-E00/MSY-E00, CdivMEANC-ratio, (1950-2011-HIVELY)



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

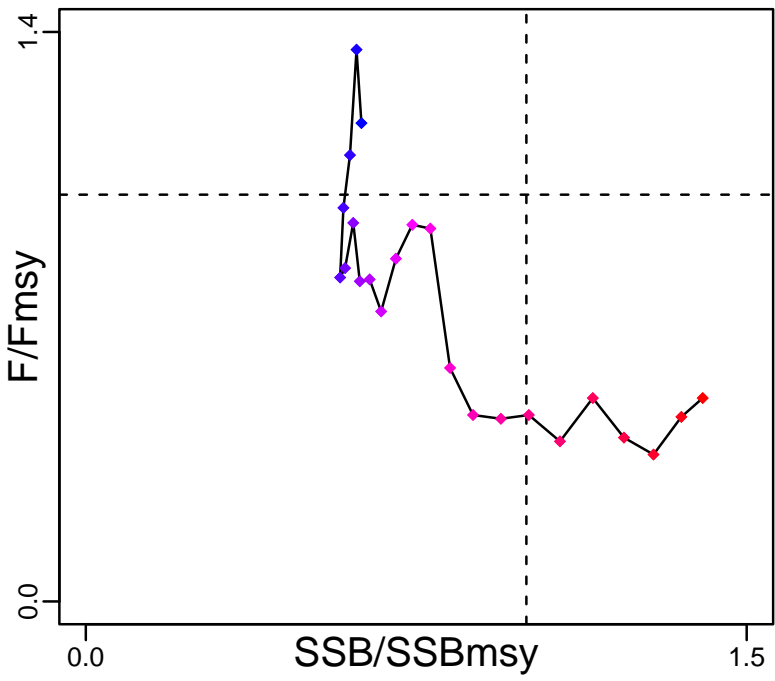
Metadata	
<b>Scientific Name</b>	Mycteroperca bonaci
<b>Current Assess ID</b>	SEFSC-BLACKGROUPELGMSATL-1986-2008-THORSON
<b>Area</b>	Gulf of Mexico and South Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center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

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

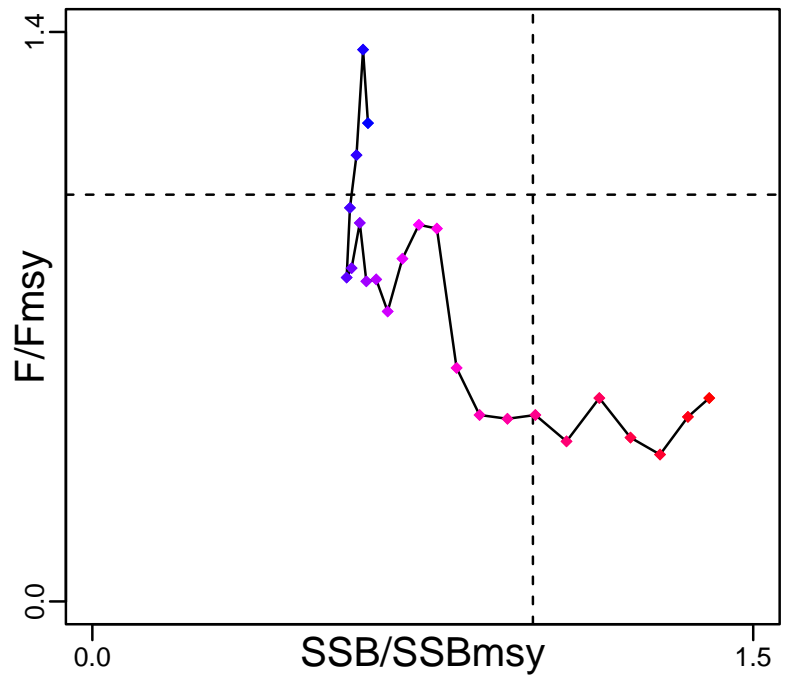
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2008	3760	Both	7+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	169,000	-	1
<b>F</b>	F-1/yr	2008	0.108	Females	5
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2008	138		
<b>TL</b>	TL-MT	2008	99		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy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

Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEMGMSATL]

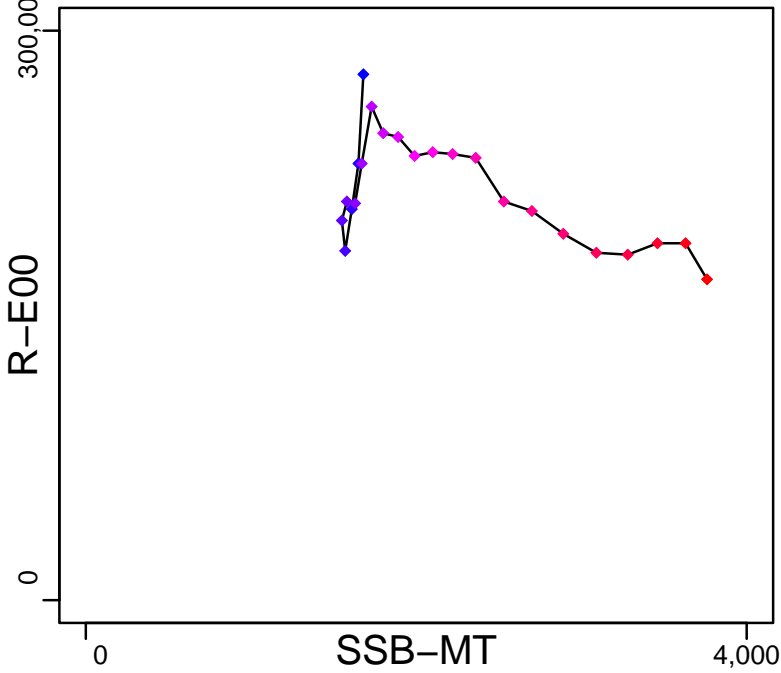
Kobe MSYpref (1986–2008–THORSON)



Kobe MGTpref (1986–2008–THORSON)



Spawner Recruit (1986–2008–THORSON)



Production\*

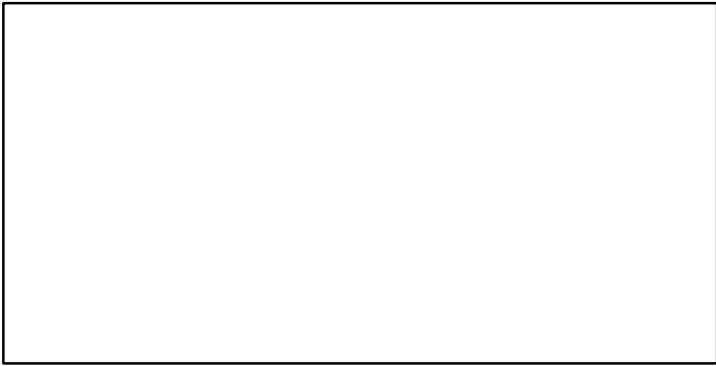


◆ Start Year ◆ End Year \* No Data

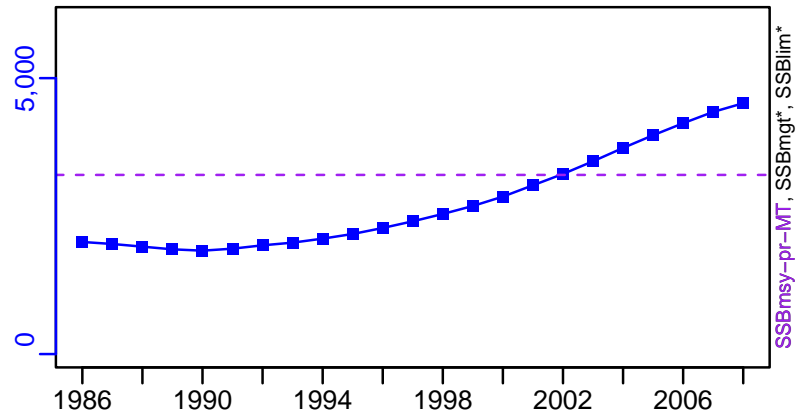


Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEGMSATL]

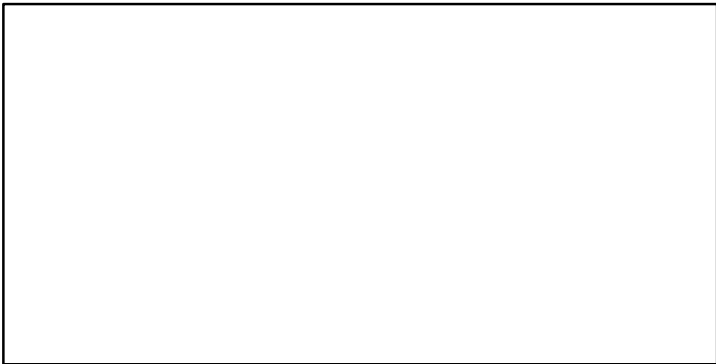
TB\*



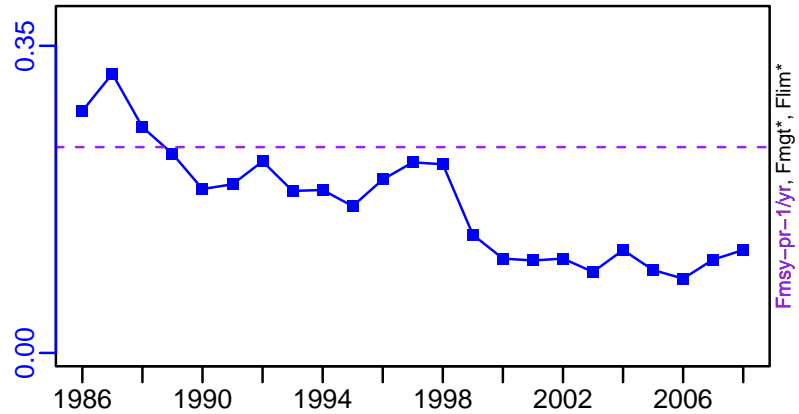
SSB-MT (1986-2008-THORSON)



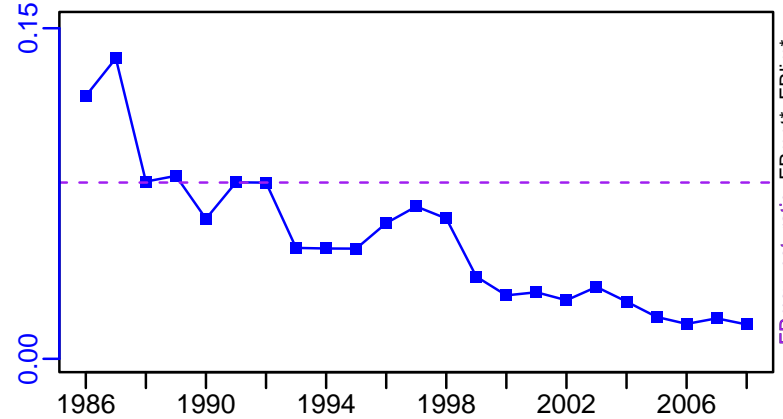
TN \*



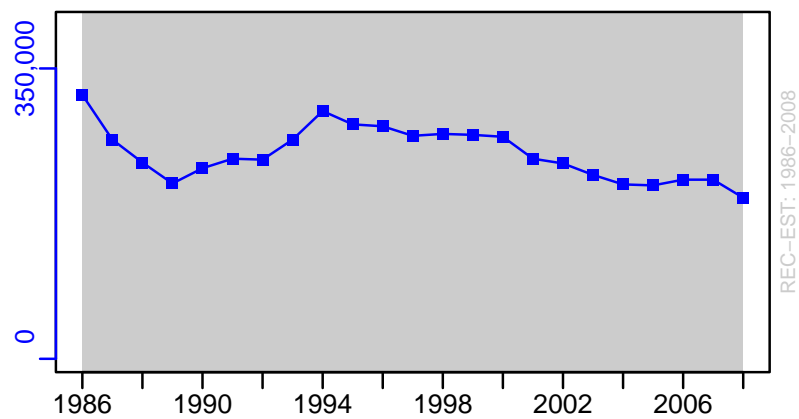
F-1/yr (1986-2008-THORSON)



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



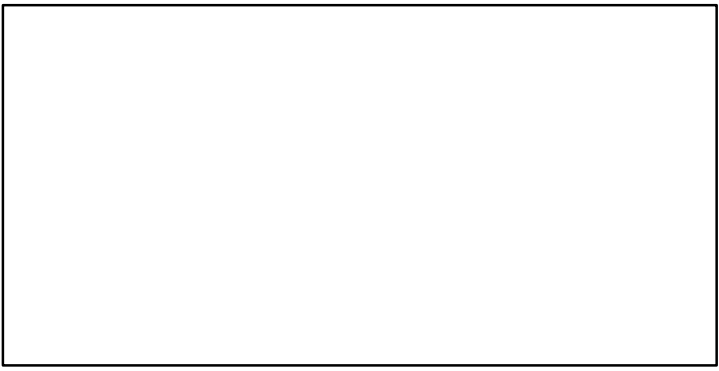
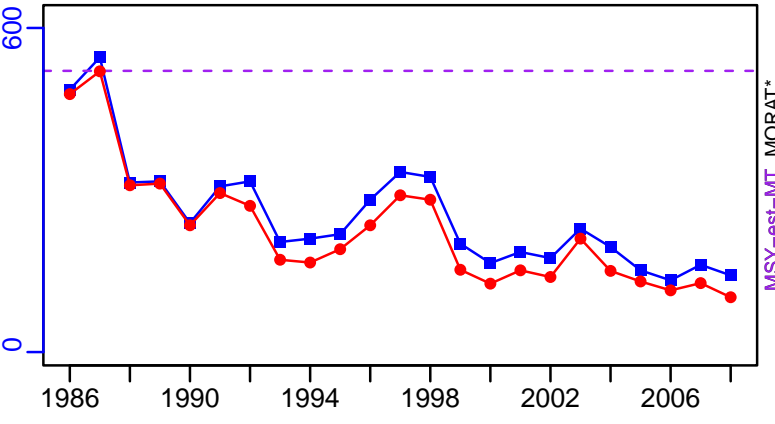
R-E00 (1986-2008-THORSON)



Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEMGMSATL]

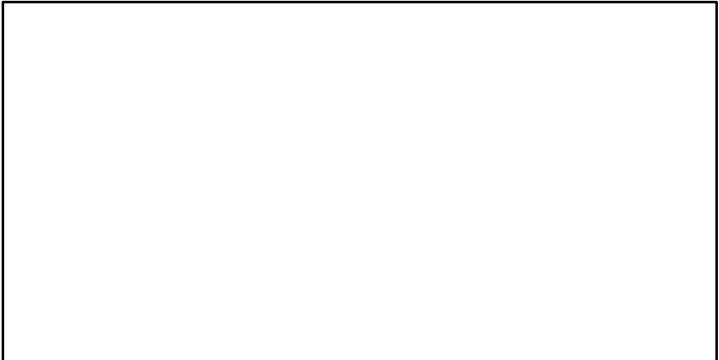
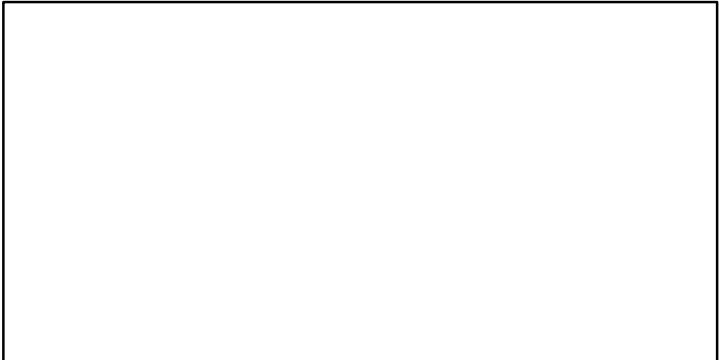
TC-MT, TL-MT, RecC\* (1986-2008-THORSON)

TAC\*, Cpair\*, Cadv\*



survB\*

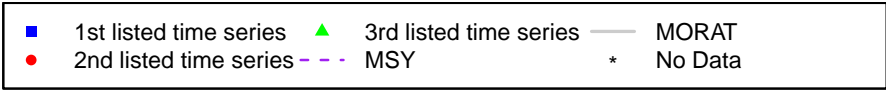
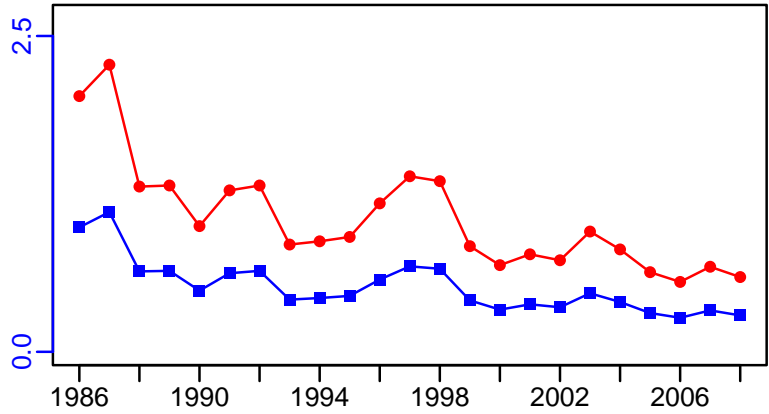
CPUE\*



EFFORT\*



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



## Blueline tilefish Southern Atlantic coast [BLTILESATLC]

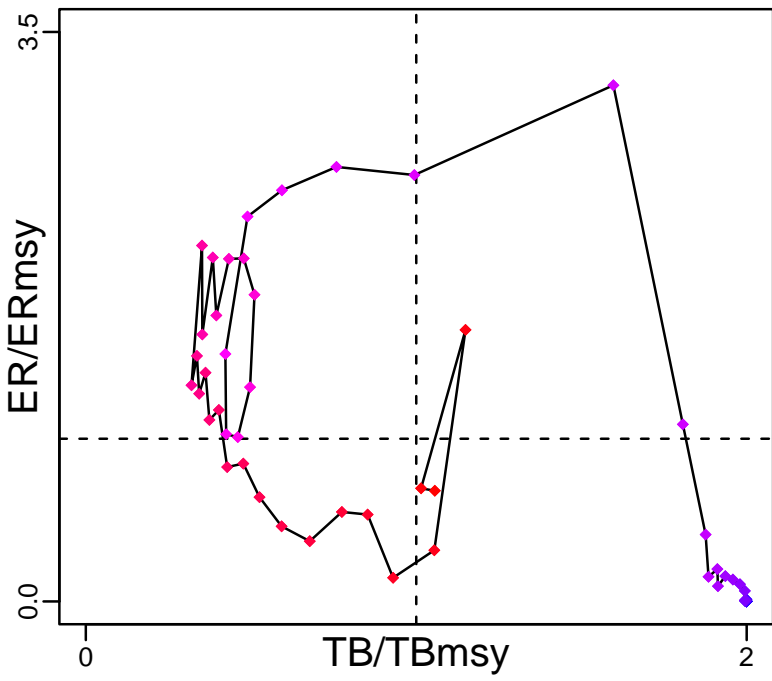
Metadata	
<b>Scientific Name</b>	Caulolatilus microps
<b>Current Assess ID</b>	SEFSC-BLTILESATLC-1958-2015-SISIMP2021
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in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

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

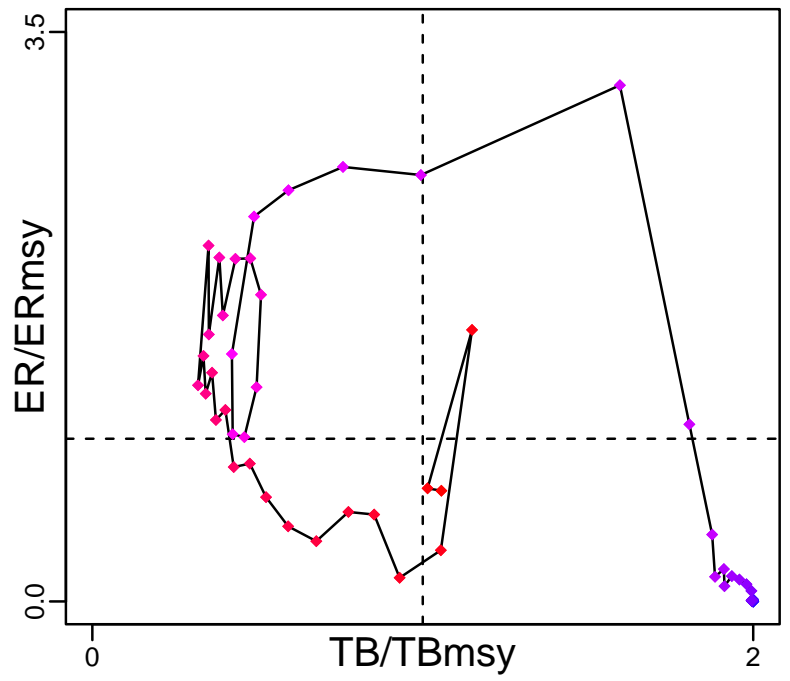
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	703	-	-
<b>SSB</b>	SSB-MT	2011	202	Females	3+
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2015	0.134	-	-
<b>ER</b>	ER-calc-ratio	2015	0.098	-	-
<b>TC</b>	TC-MT	2015	69		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT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

Blueline tilefish Southern Atlantic coast [BLTILESATLC]

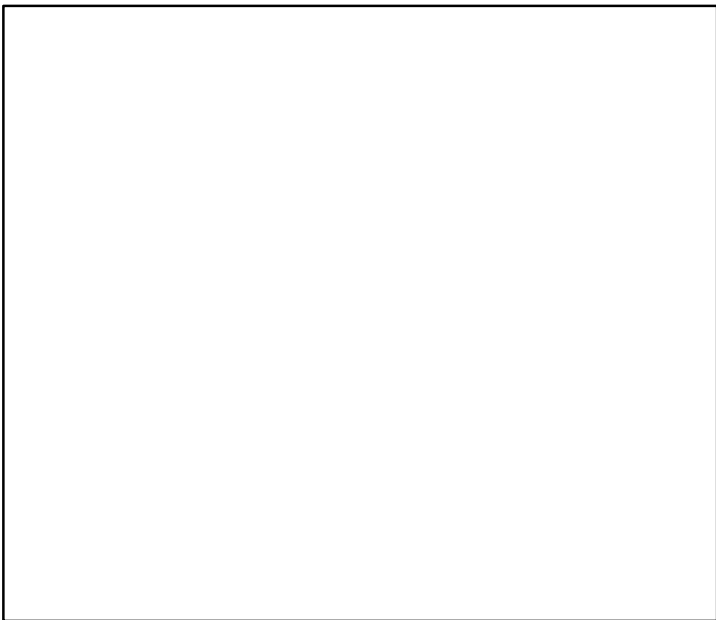
Kobe MSYpref (1958–2015–SISIMP2021)



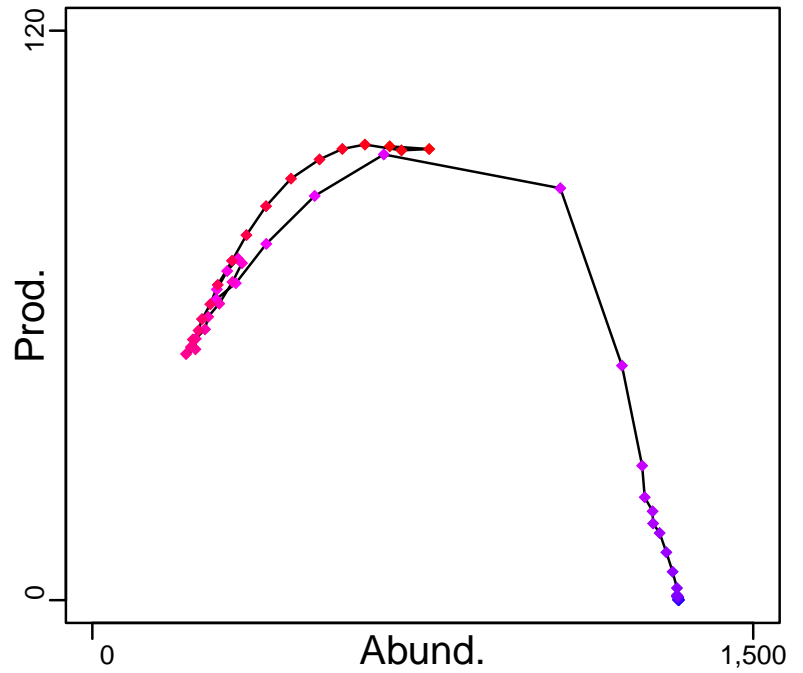
Kobe MGTpref (1958–2015–SISIMP2021)



Spawner Recruit\*



Production (1958–2015–SISIMP2021)

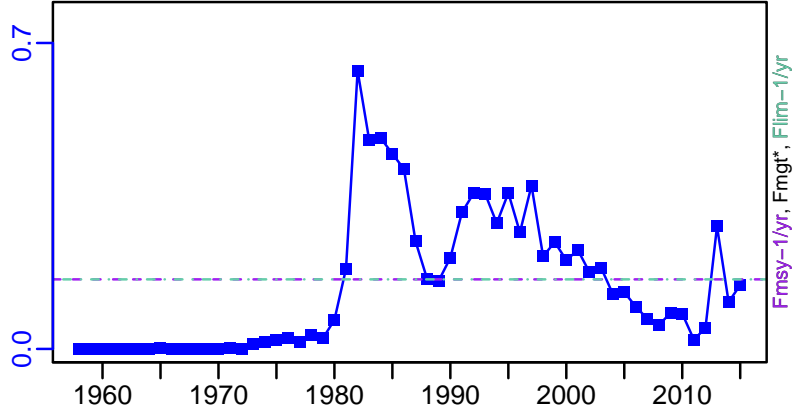
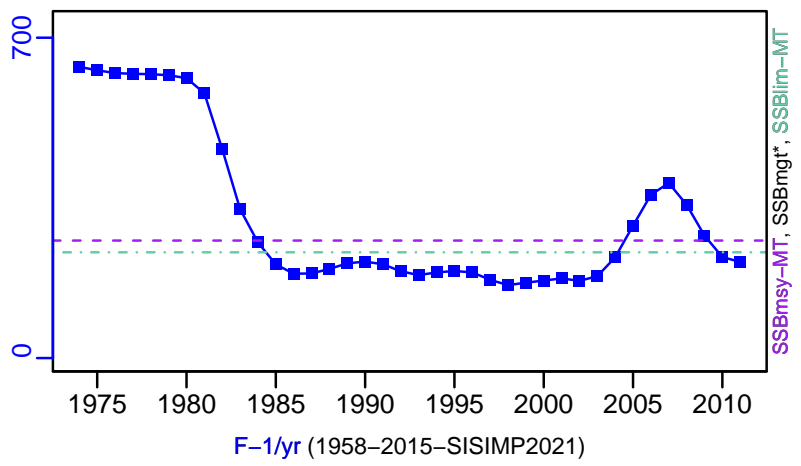
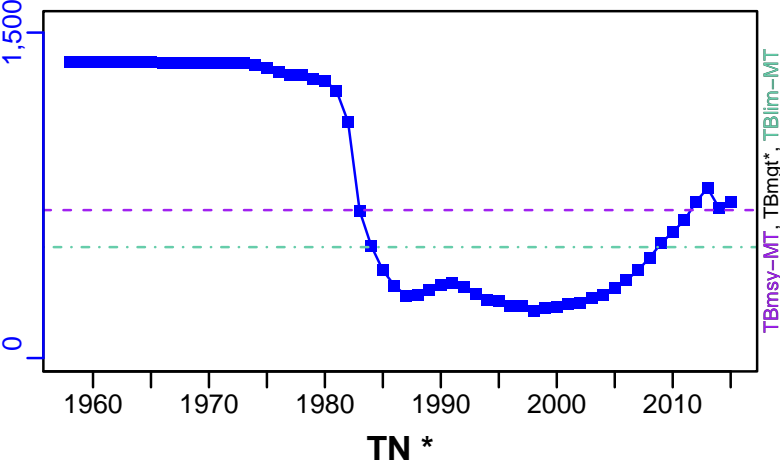


◆ Start Year ◆ End Year \* No Data

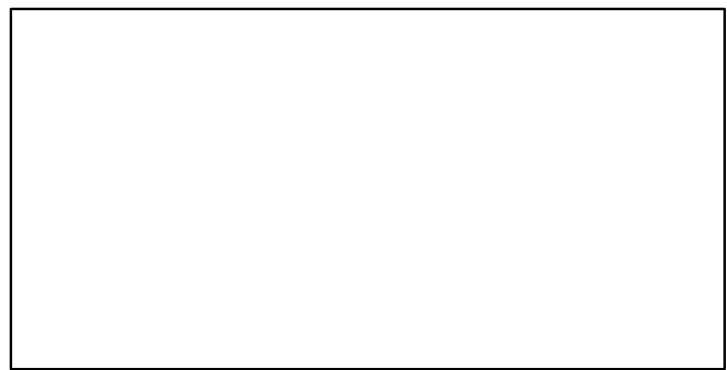
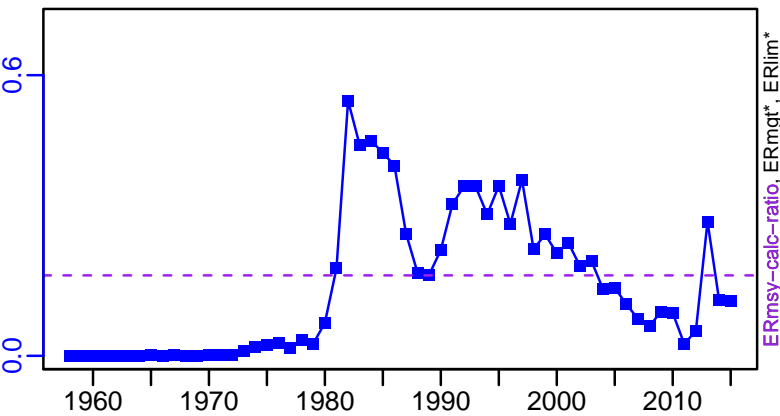
Blueline tilefish Southern Atlantic coast [BLTILESATLC]

TB-MT (1958-2015-SISIMP2021)

SSB-MT (1974-2011-SISIMP2016)



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

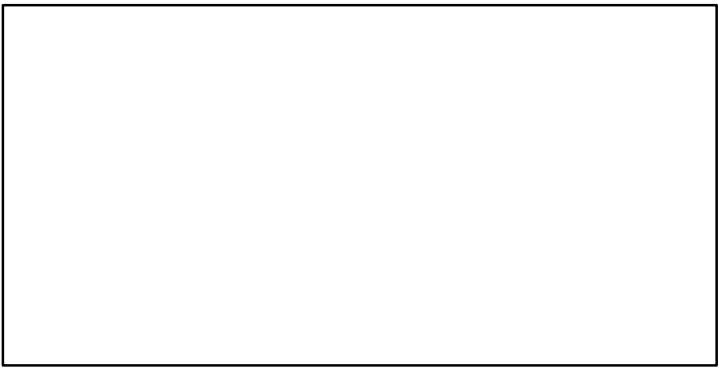
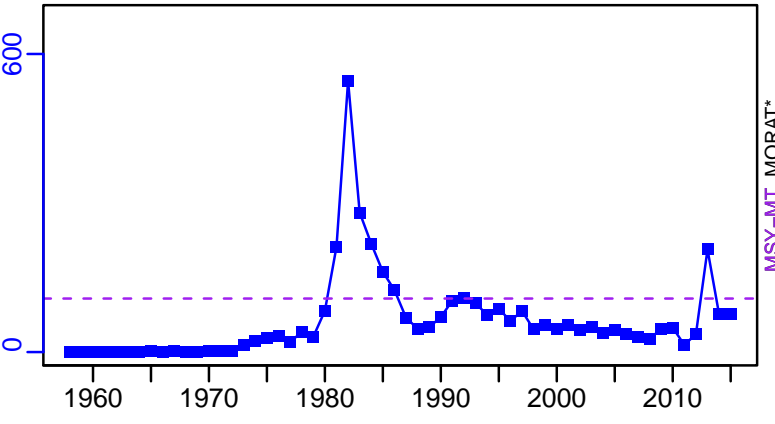


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	- · - Lim BRP	* No Data

Blueline tilefish Southern Atlantic coast [BLTILESATLC]

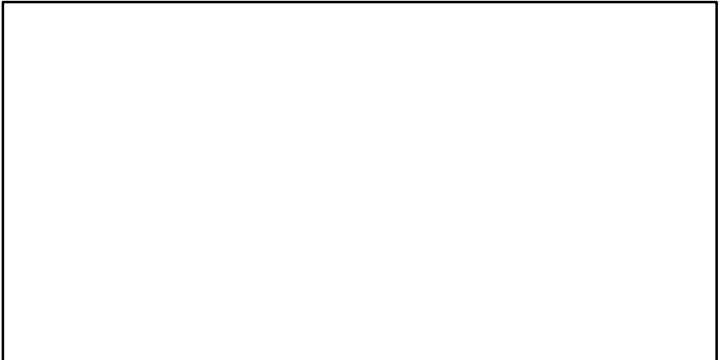
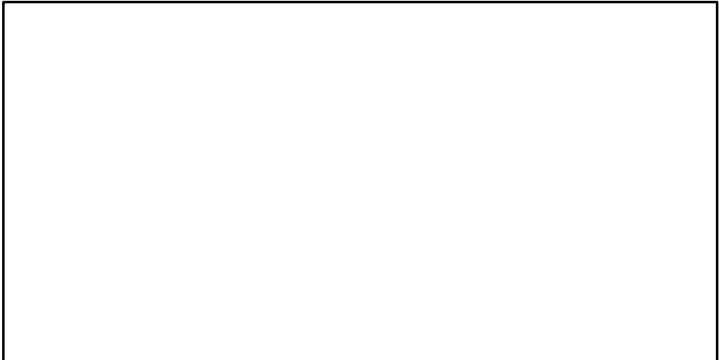
TC-MT, TL\*, RecC\* (1958-2015-SISIMP2021)

TAC\*, Cpair\*, Cadv\*



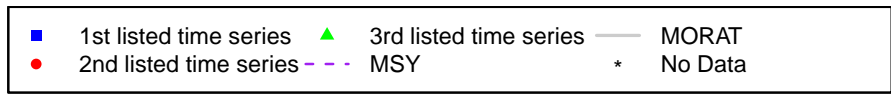
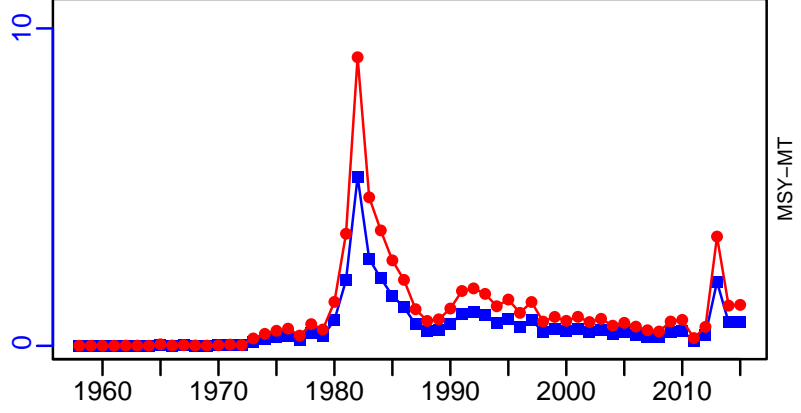
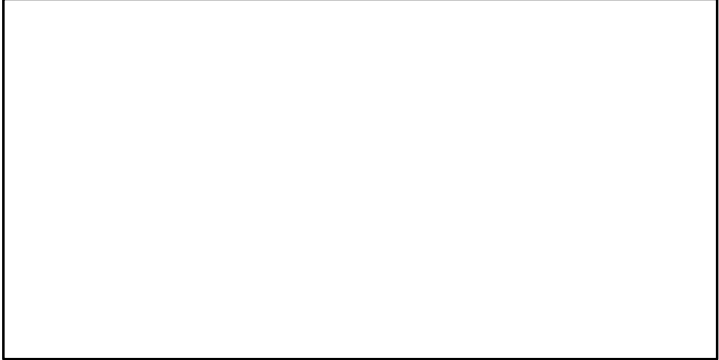
survB\*

CPUE\*



EFFORT\*

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



## Blacknose shark Atlantic [BNOSESHARATL]

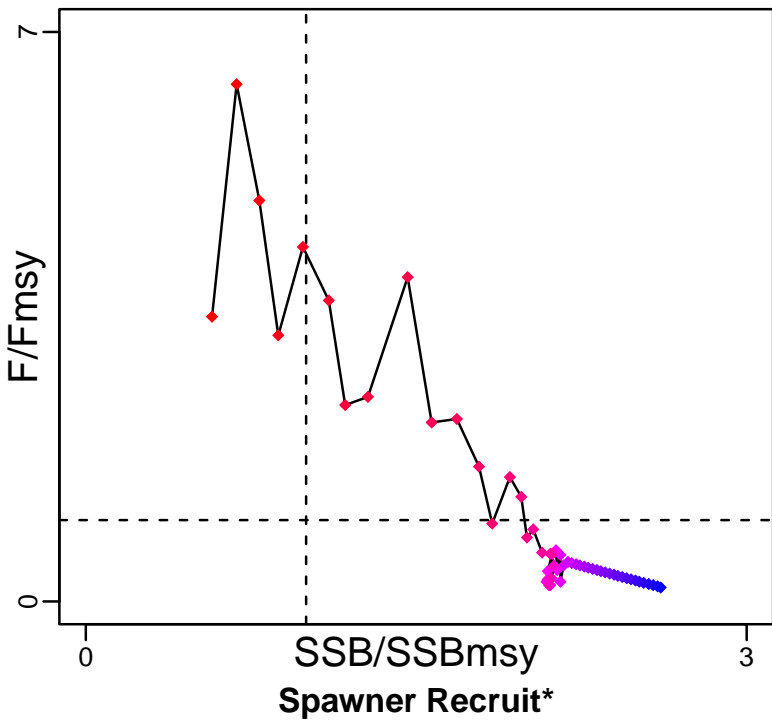
Metadata	
<b>Scientific Name</b>	Carcharhinus acronotus
<b>Current Assess ID</b>	SEFSC-BNOSESHARATL-1950-2009-SISIMP2016
<b>Area</b>	Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2005, 2009

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-E00pups	2009	153,709
<b>Fmsy</b>	Fmsy-1/yr	2009	0.08
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2009	0.06
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-E00	2009	24,495
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00pups	2009	77,447
<b>Flim</b>	Flim-1/yr	2009	0.08
<b>ERlim</b>	-	-	-

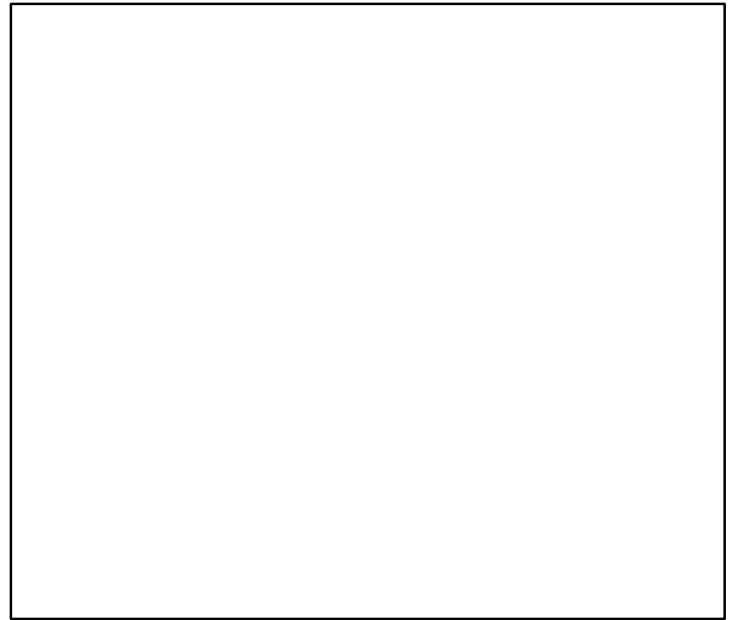
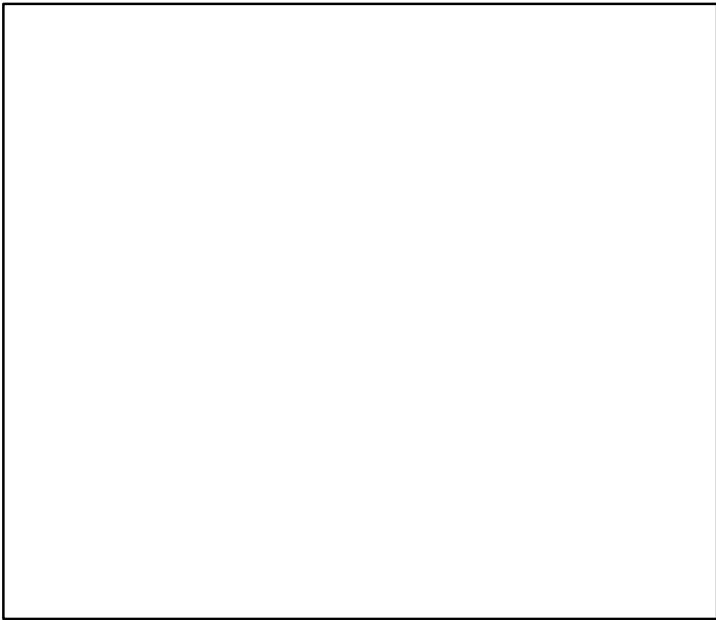
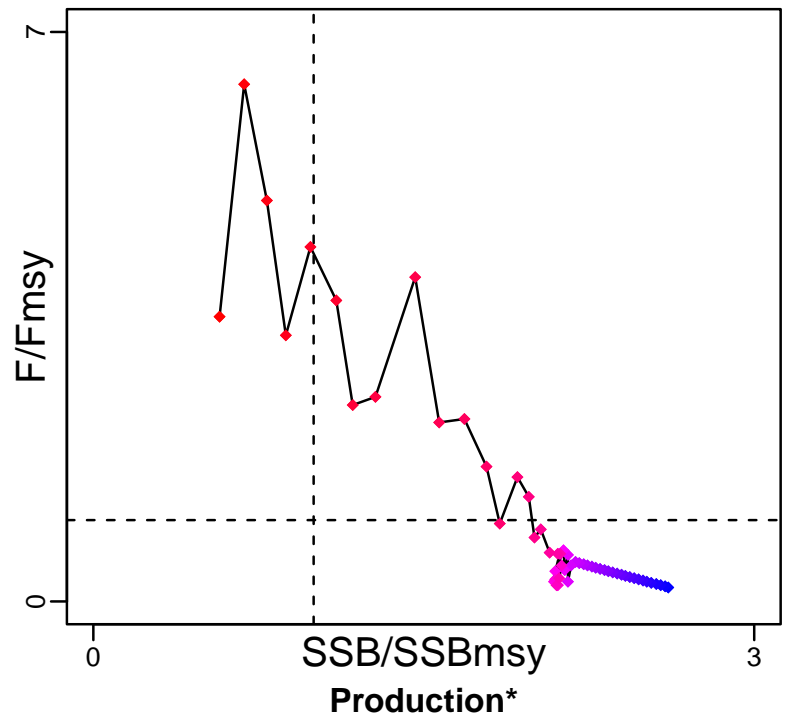
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-E00pups	2009	58,000	-	-
<b>TN</b>	TN-E00	2009	152,000	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2009	0.376	-	-
<b>ER</b>	ER-calc-ratio	2009	0.206	-	-
<b>TC</b>	TC-E00	2009	31,300		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSF-E00/SSFmsy-E00	2005	0.573		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2009	4.7		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2009	6.267		
<b>ER/ERmgt</b>	-	-	-		

Blacknose shark Atlantic [BNOSESHARATL]

Kobe MSYpref (1950–2005–FAUCONNET)



Kobe MGTpref (1950–2005–FAUCONNET)

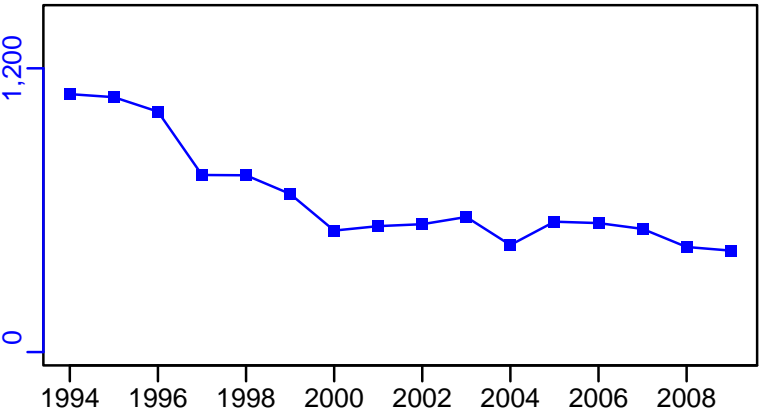


◆ Start Year ◆ End Year \* No Data

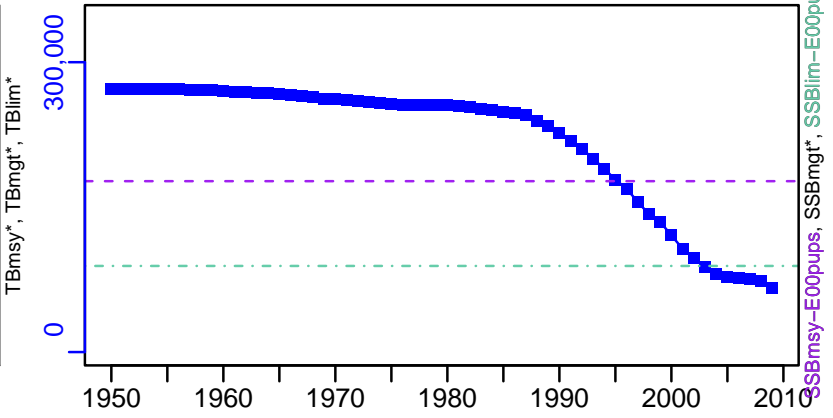


Blacknose shark Atlantic [BNOSESHARATL]

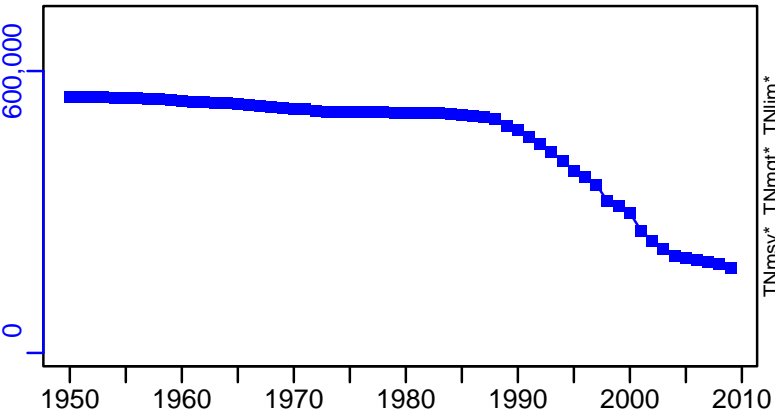
TB-mwc-MT (1950-2009-SISIMP2016)



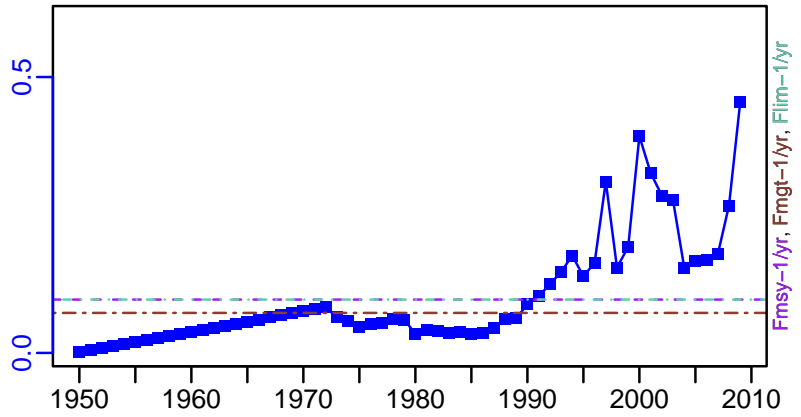
SSB-E00pups (1950-2009-SISIMP2016)



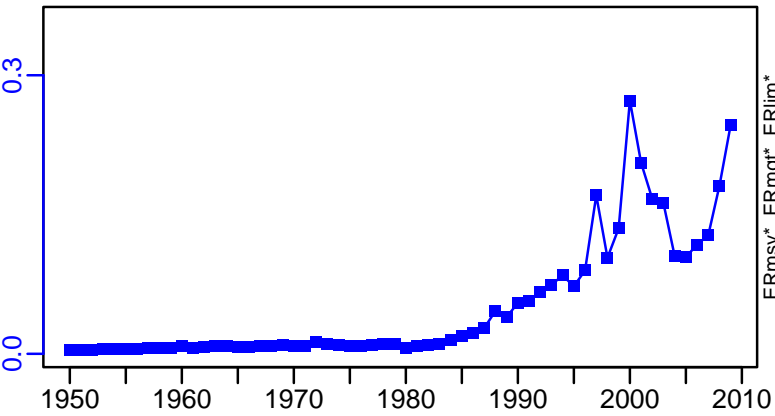
TN-E00 (1950-2009-SISIMP2016)



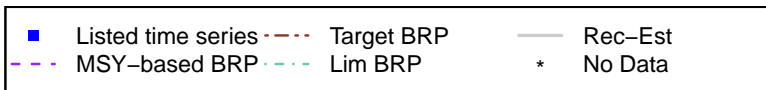
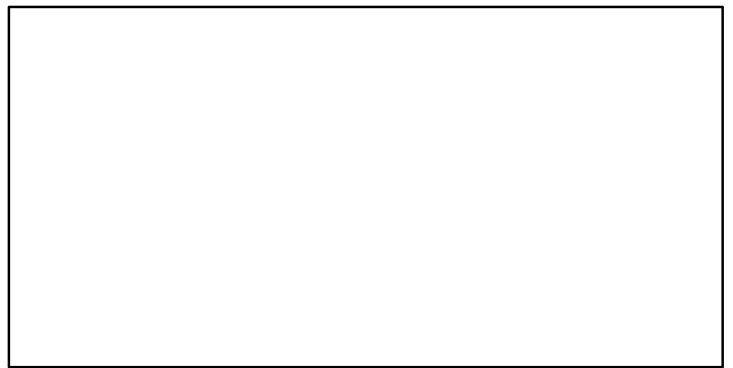
F-1/yr (1950-2009-SISIMP2016)



ER-calc-ratio (1950-2009-SISIMP2016)



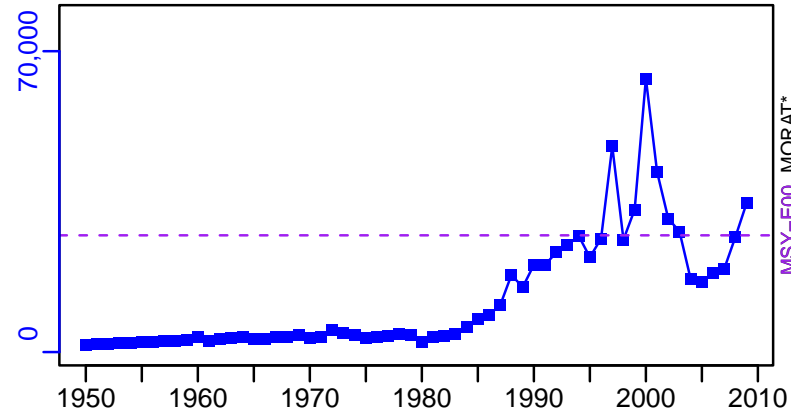
Recruits\*



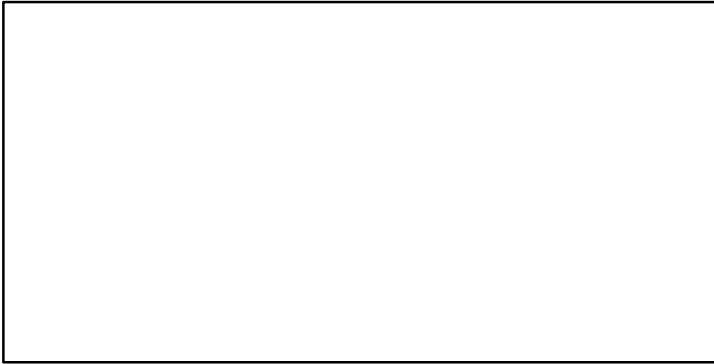
Blacknose shark Atlantic [BNOSESHARATL]

TC-E00, TL\*, RecC\* (1950-2009-SISIMP2016)

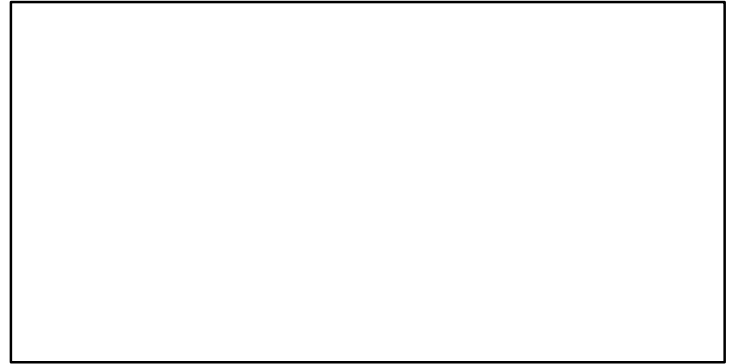
TAC\*, Cpair\*, Cadv\*



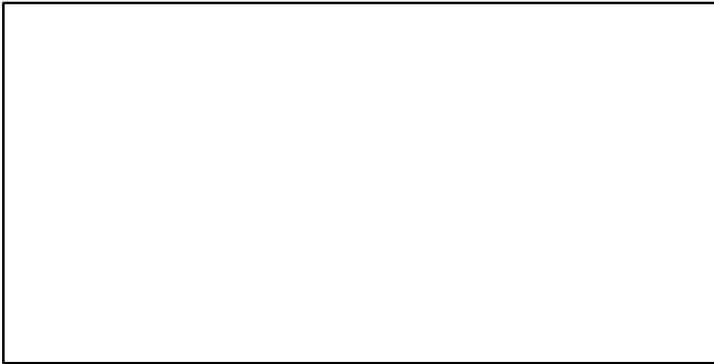
survB\*



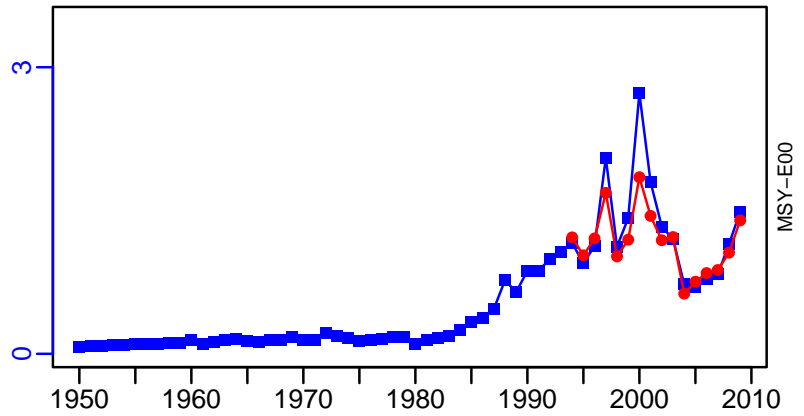
CPUE\*



EFFORT\*



TC-E00/MSY-E00, CdivMEANC-ratio, (1950-2009-SISIMP2016)



## Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

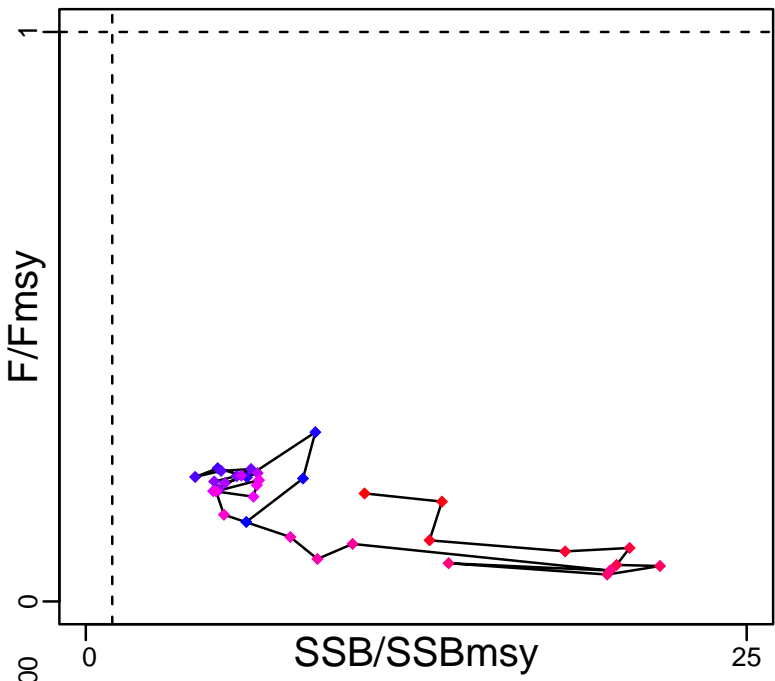
Metadata	
<b>Scientific Name</b>	Farfantepenaeus aztecus
<b>Current Assess ID</b>	SEFSC-BRNSHRIMPGM-1984-2017-SISIMP2021
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011, 2014, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2017	2767
<b>Fmsy</b>	Fmsy-1/yr	2017	9.12
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2017	2767
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

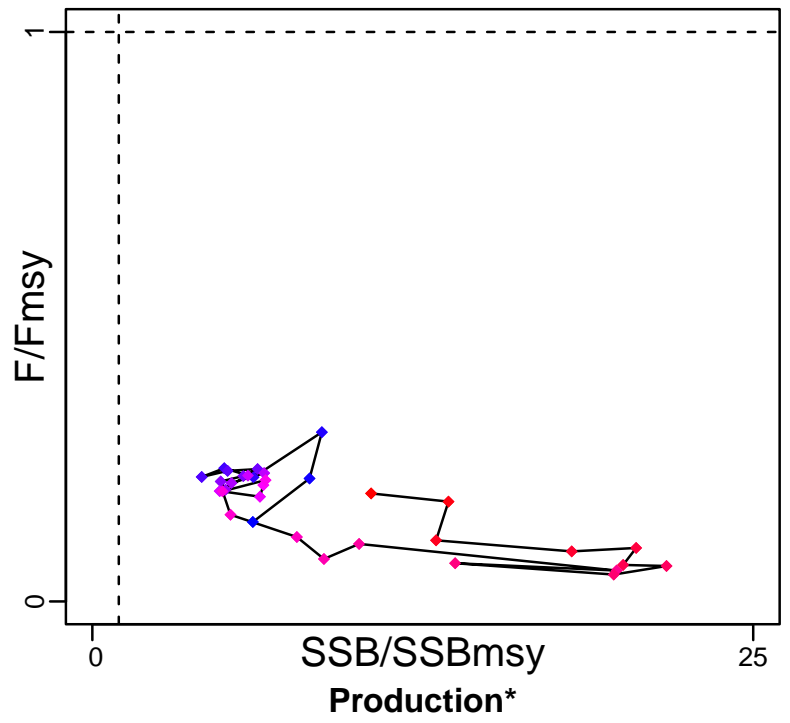
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2017	12,174	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	27,770,500,000	-	-
<b>F</b>	F-1/yr	2017	1.73	-	-
<b>ER</b>	ER-ratio	2011	0.147	-	-
<b>TC</b>	TC-MT	2017	28,631		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2017	4.4		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	0.19		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

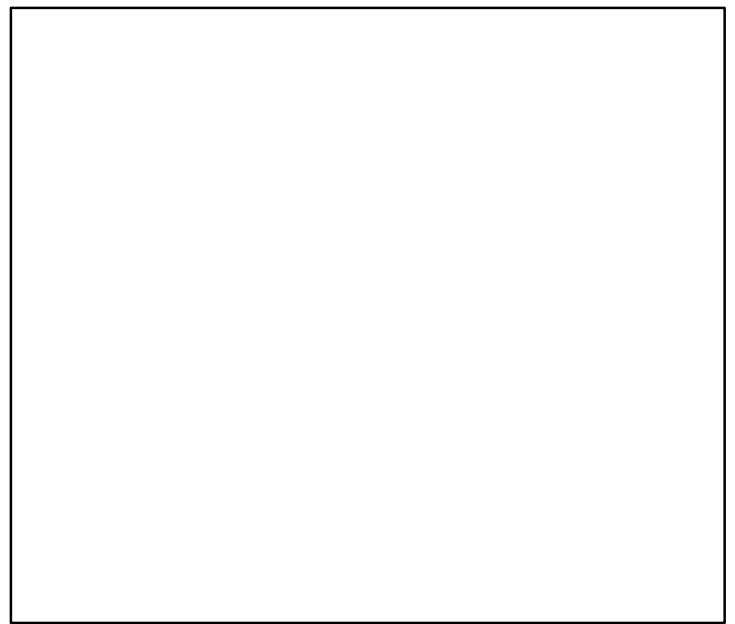
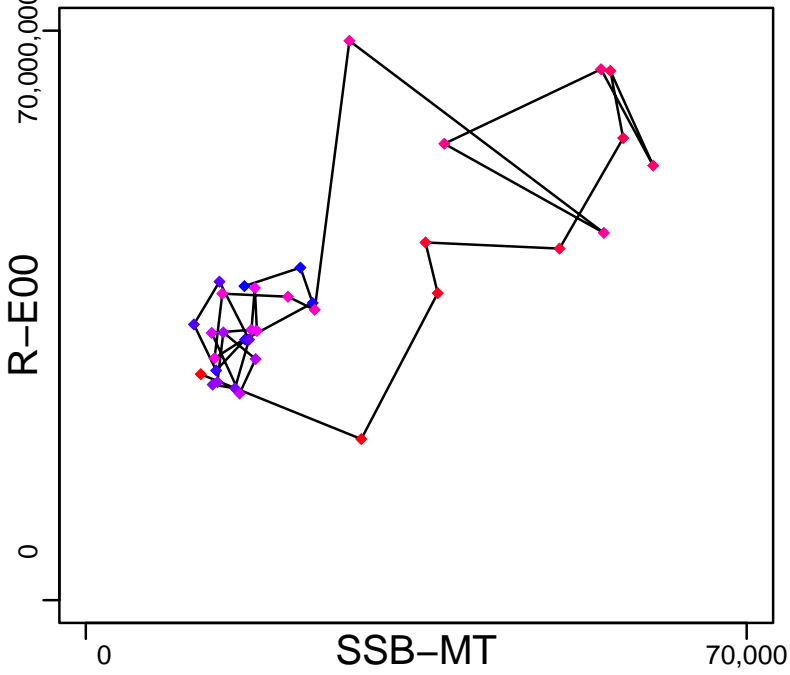
Kobe MSYpref (1984–2017–SISIMP2021)



Kobe MGTpref (1984–2017–SISIMP2021)



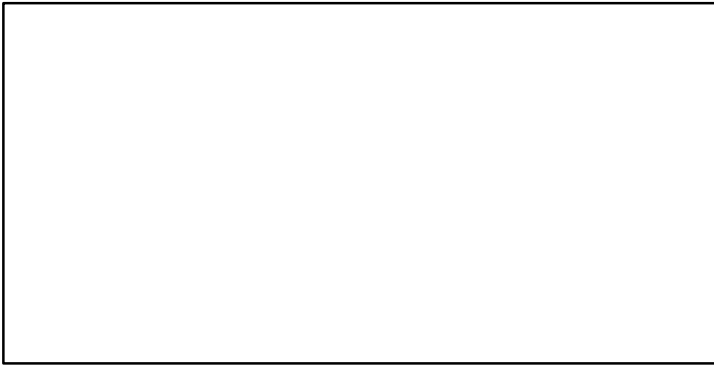
Spawner Recruit (1984–2017–SISIMP2021)



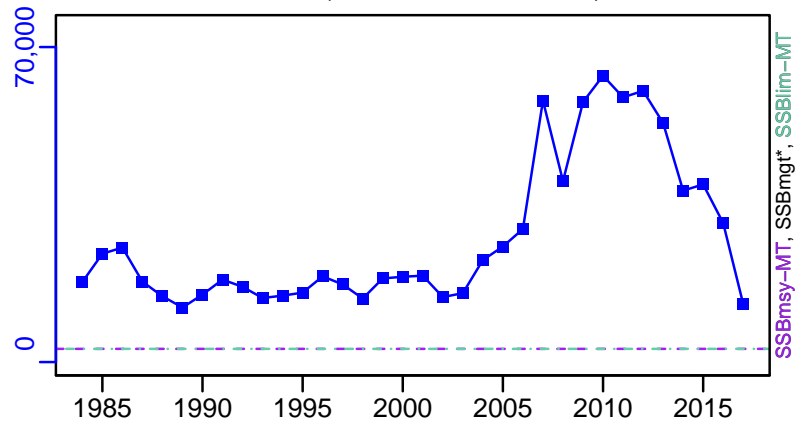
◆ Start Year ◆ End Year \* No Data

Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

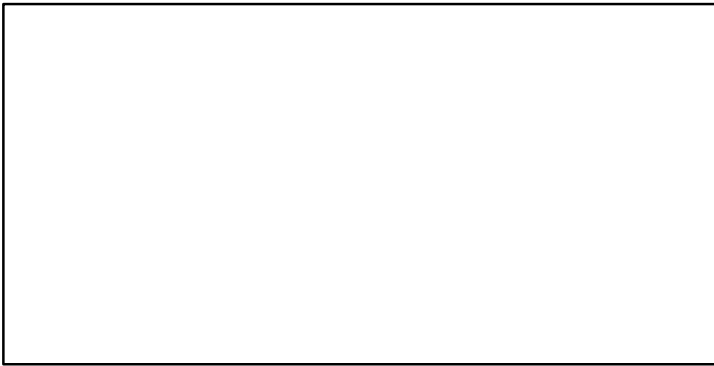
TB\*



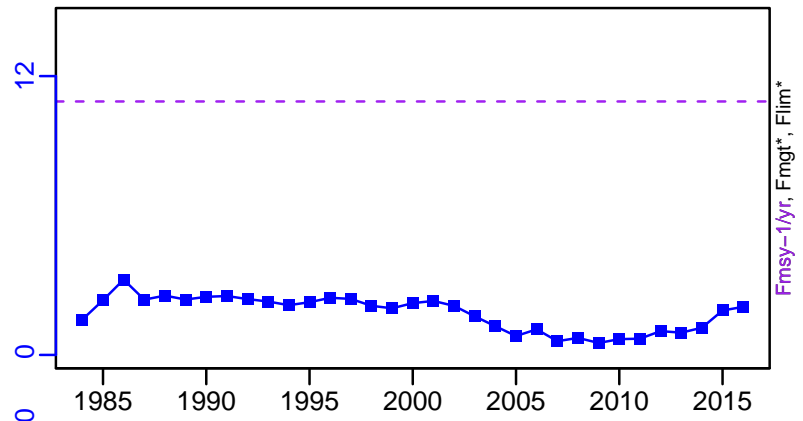
SSB-MT (1984-2017-SISIMP2021)



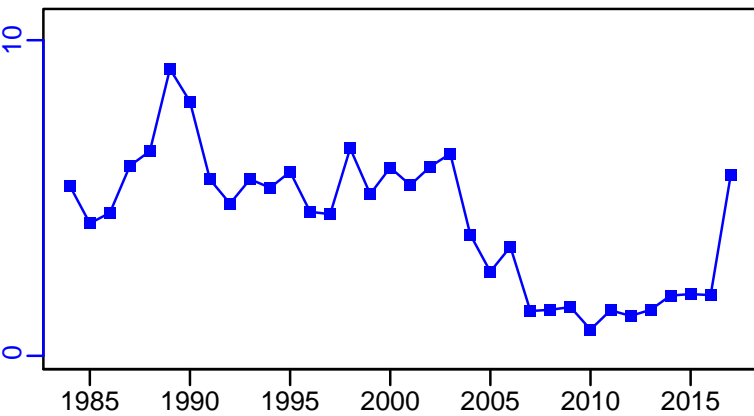
TN \*



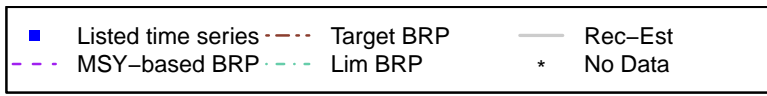
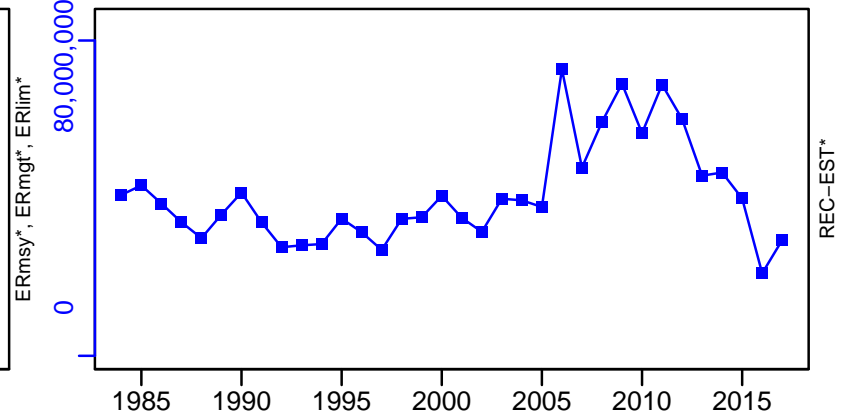
F-1/yr (1984-2017-SISIMP2021)



ER-calc-ratio (1984-2017-SISIMP2021)



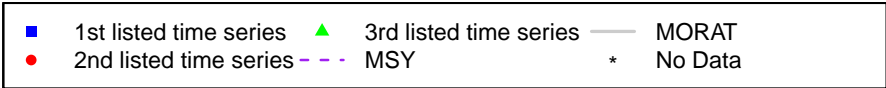
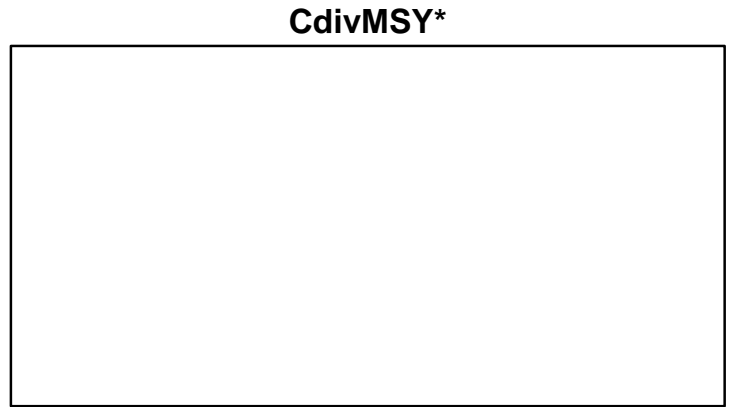
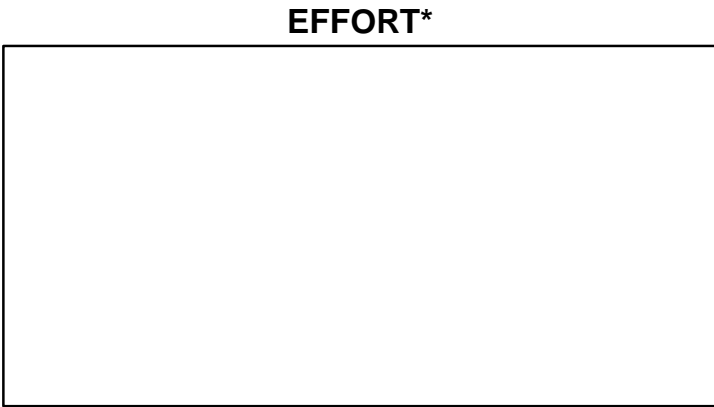
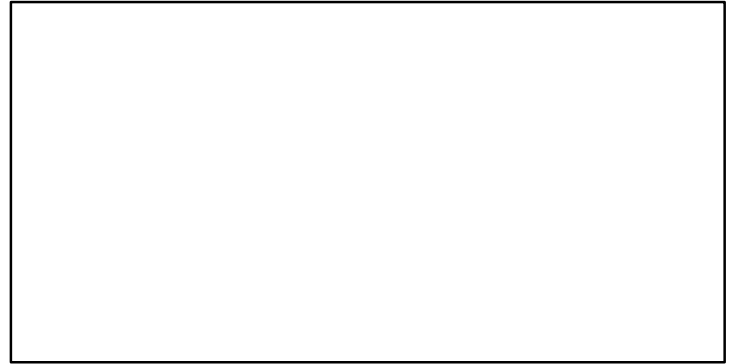
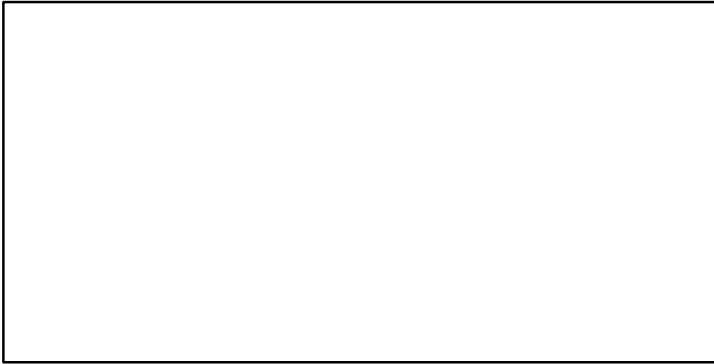
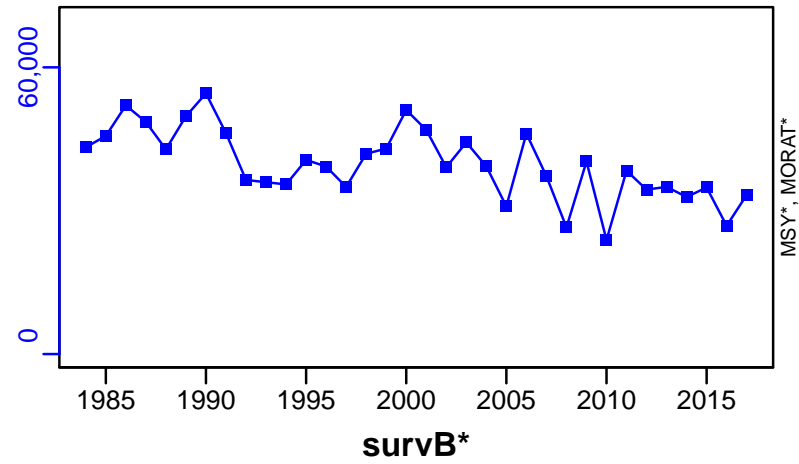
R-E00 (1984-2017-SISIMP2021)



Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

TC-MT, TL\*, RecC\* (1984-2017-SISIMP2021)

TAC\*, Cpair\*, Cadv\*



## Black sea bass South Atlantic [BSBASSSATL]

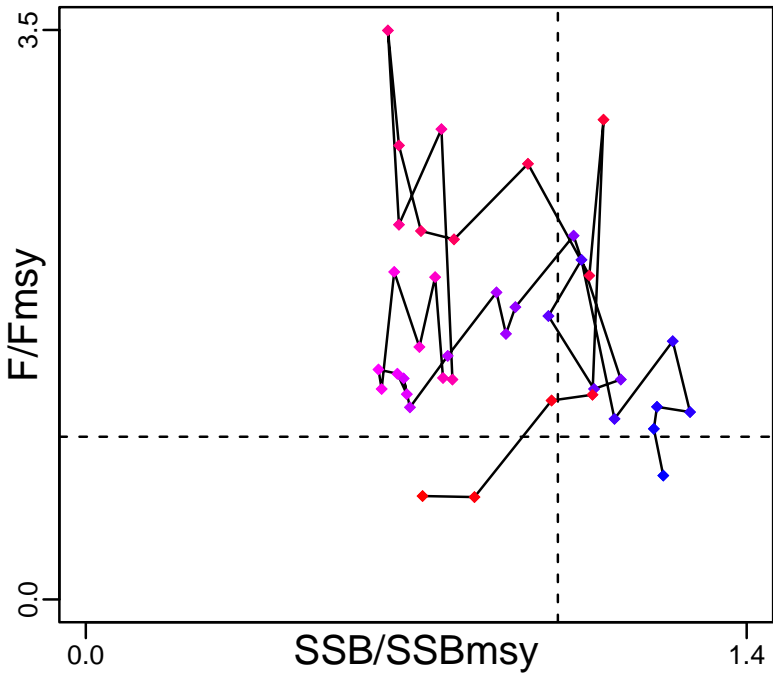
Metadata	
<b>Scientific Name</b>	Centropristis striata
<b>Current Assess ID</b>	SEFSC-BSBASSSATL-1977-2016-SISIMP2021
<b>Area</b>	South Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>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

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

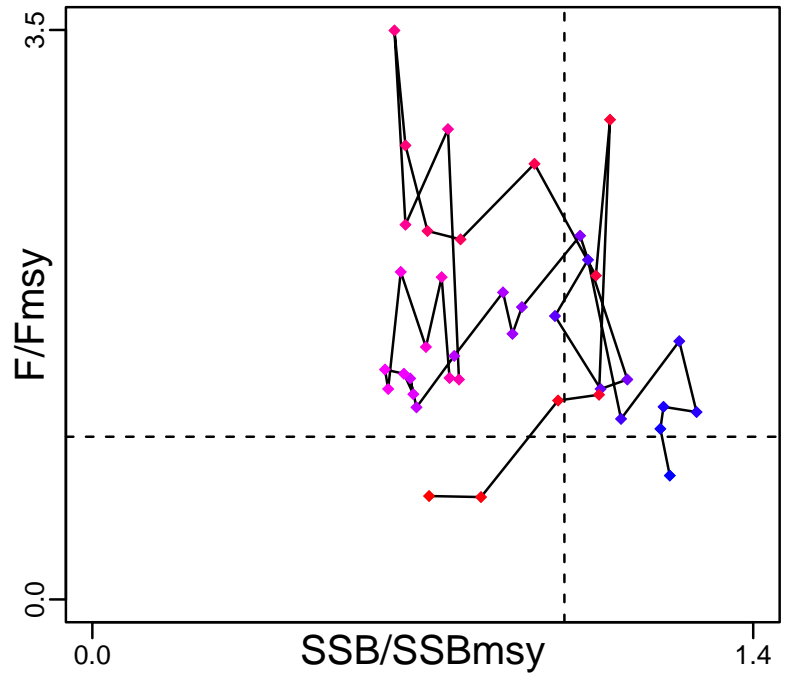
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	3800	-	-
<b>SSB</b>	SSB-E00eggs	2016	$2.14 \times 10^{12}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	20,625,990	-	1
<b>F</b>	F-1/yr	2016	0.197	-	-
<b>ER</b>	ER-calc-ratio	2010	0.154	-	-
<b>TC</b>	TC-MT	2016	262		
<b>TL</b>	TL-MT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

Black sea bass South Atlantic [BSBASSATL]

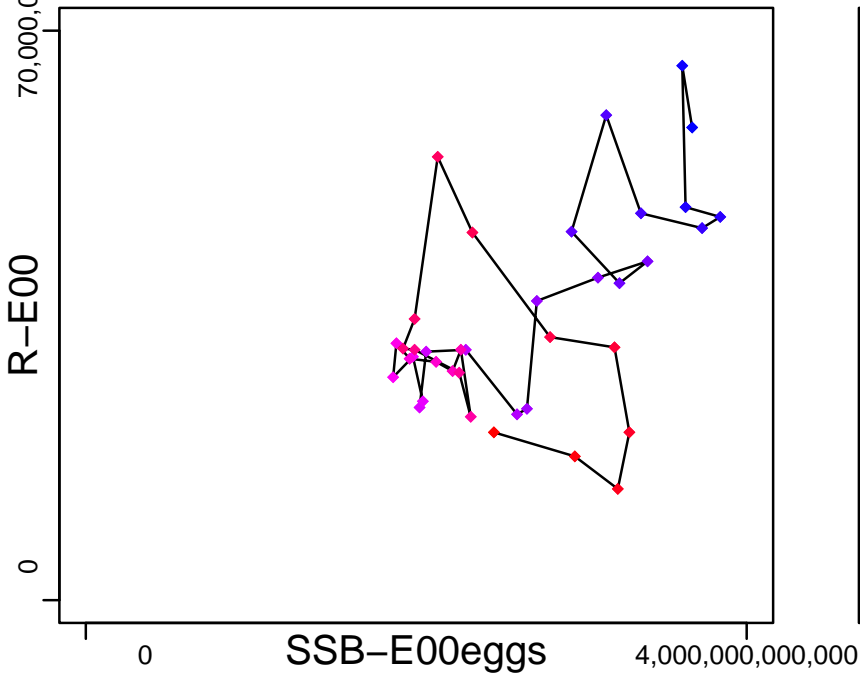
Kobe MSYpref (1977-2016-SISIMP2021)



Kobe MGTpref (1977-2016-SISIMP2021)



Spawner Recruit (1977-2016-SISIMP2021)



Production\*

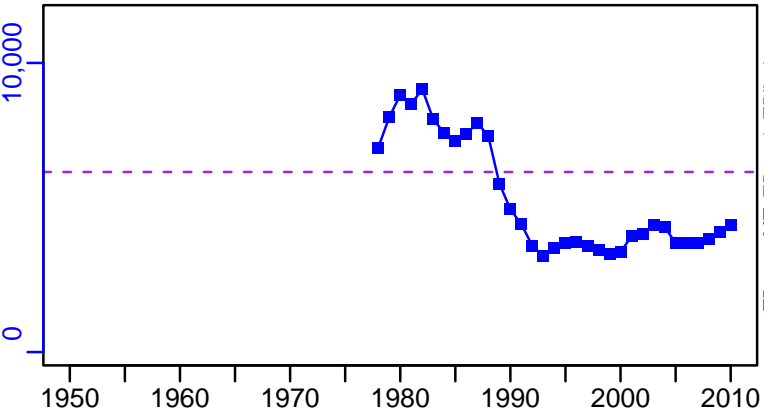


◆ Start Year ◆ End Year \* No Data

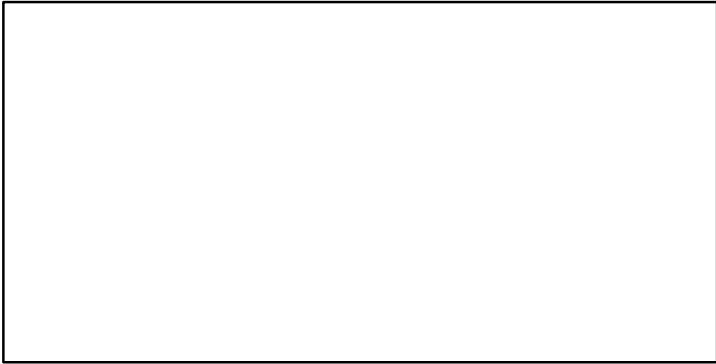


### Black sea bass South Atlantic [BSBASSSATL]

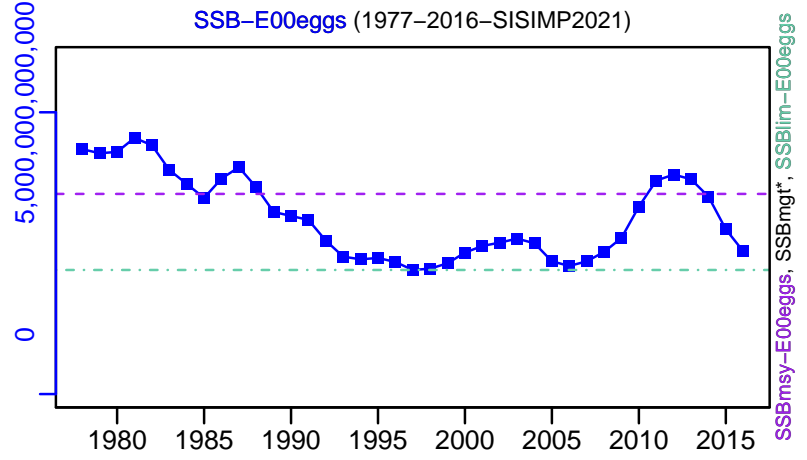
TB-MT (1950-2010-HIVELY)



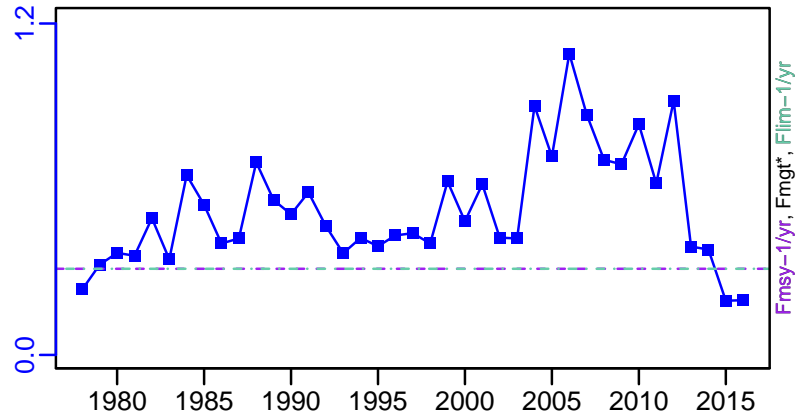
TN \*



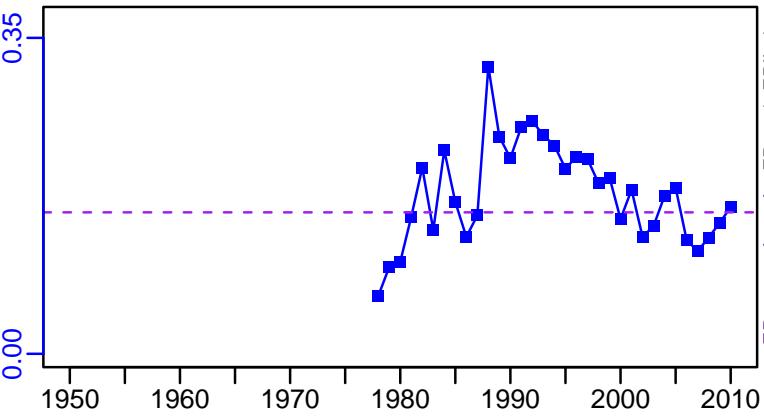
SSB-E00eggs (1977-2016-SISIMP2021)



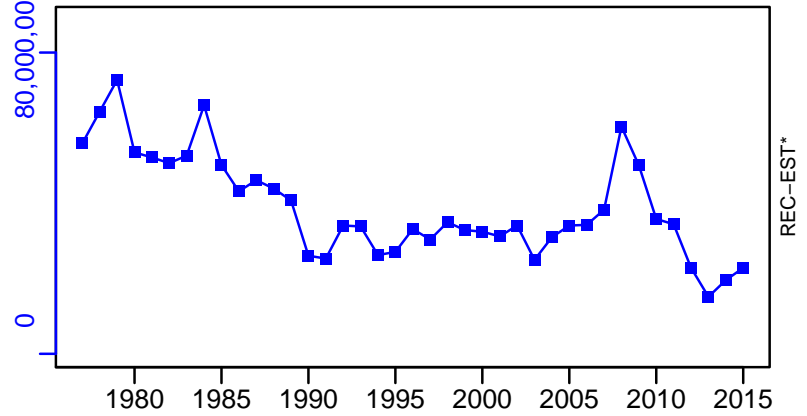
F-1/yr (1977-2016-SISIMP2021)



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



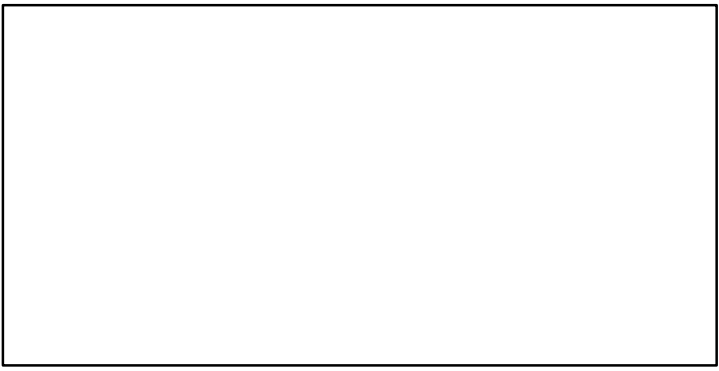
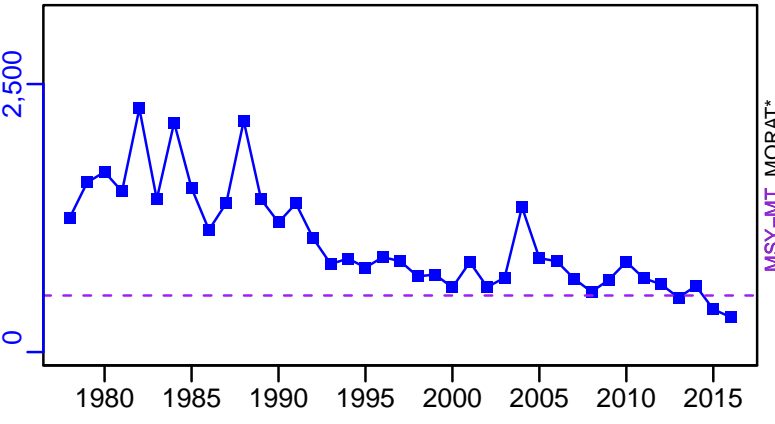
R-E00 (1977-2016-SISIMP2021)



Black sea bass South Atlantic [BSBASSSATL]

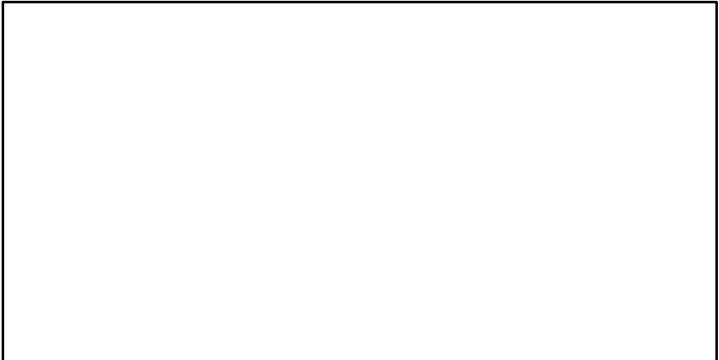
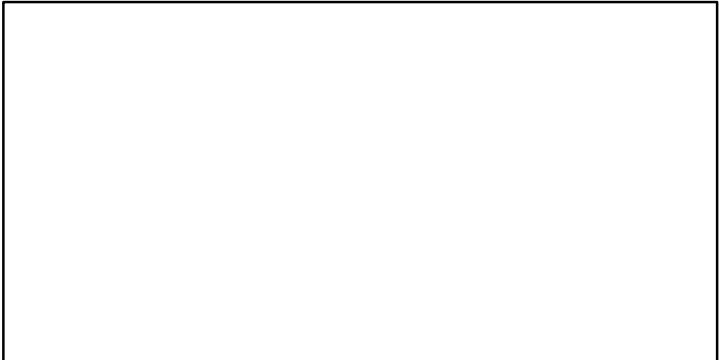
TC-MT, TL\*, RecC\* (1977-2016-SISIMP2021)

TAC\*, Cpair\*, Cadv\*



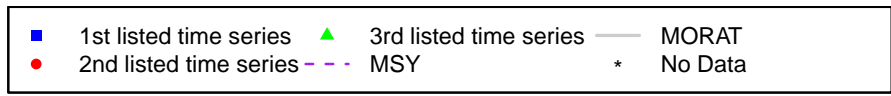
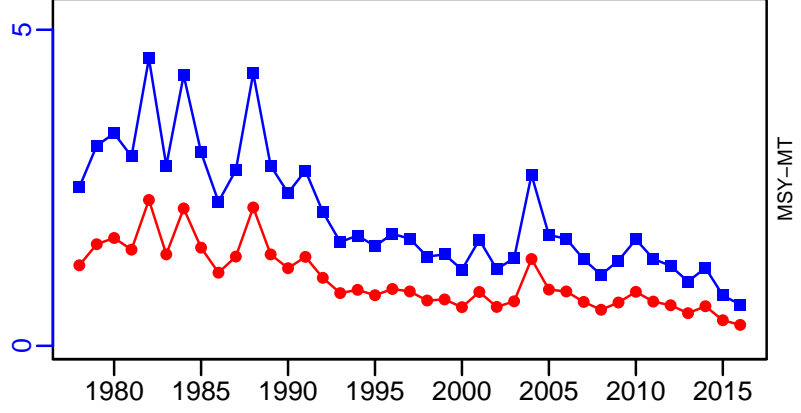
survB\*

CPUE\*



EFFORT\*

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



## Blacktip shark Atlantic [BTIPSHARATL]

Metadata	
<b>Scientific Name</b>	Carcharhinus limbatus
<b>Current Assess ID</b>	SEFSC-BTIPSHARATL-1981-2004-FAUCONNET
<b>Area</b>	Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2004

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2004	0.2
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2004	14,900
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSF-E00	2004	18,200,000	Females	7.5
<b>TN</b>	TN-E00	2004	50,400,000	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2004	0.001	-	-
<b>ER</b>	ER-calc-ratio	2004	0	-	-
<b>TC</b>	TC-E00	2004	17,700	-	-
<b>TL</b>	-	-	-	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	-	-	-	-	-
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2004	0.005	-	-
<b>ER/ERmsy</b>	-	-	-	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	-	-	-	-	-
<b>F/Fmgt</b>	-	-	-	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

Blacktip shark Atlantic [BTIPSHARATL]

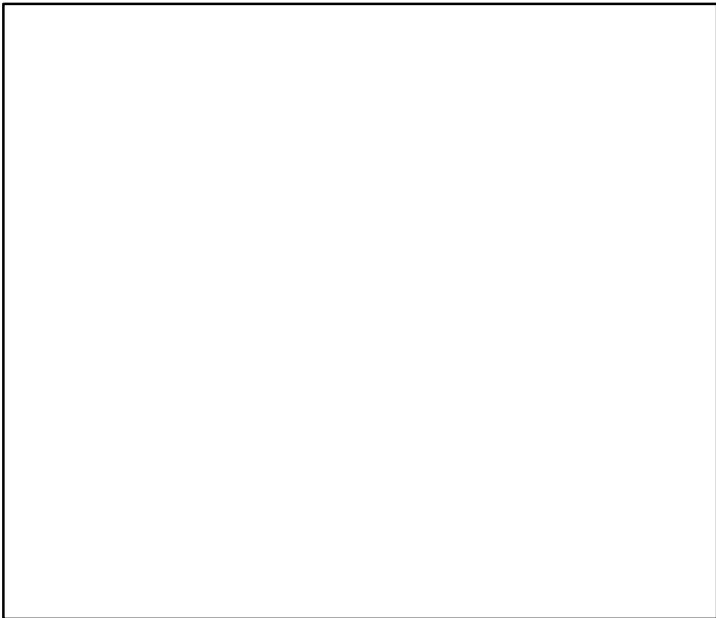
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



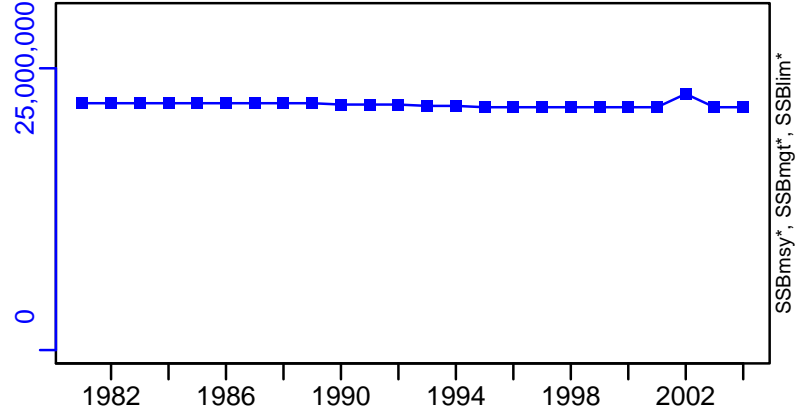
◆ Start Year ◆ End Year \* No Data

Blacktip shark Atlantic [BTIPSHARATL]

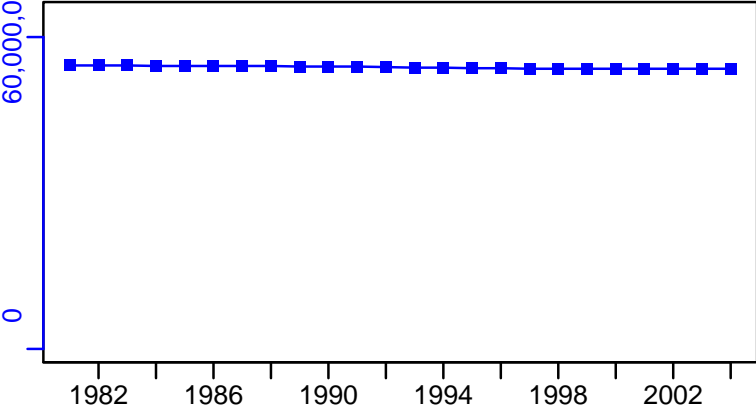
TB\*



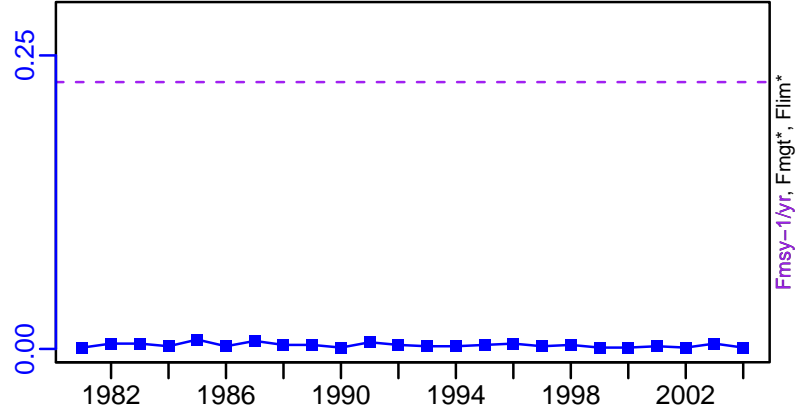
SSF-E00 (1981-2004-FAUCONNET)



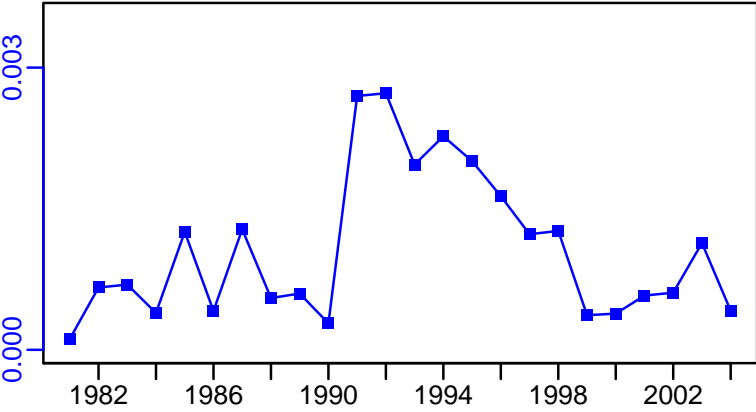
TN-E00 (1981-2004-FAUCONNET)



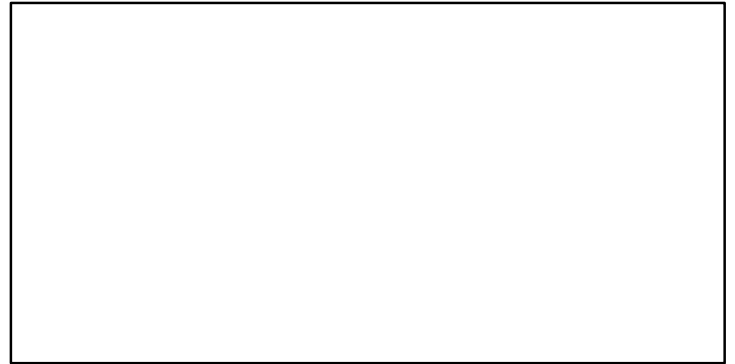
F-1/yr (1981-2004-FAUCONNET)



ER-calc-ratio (1981-2004-FAUCONNET)



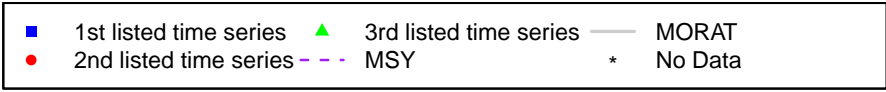
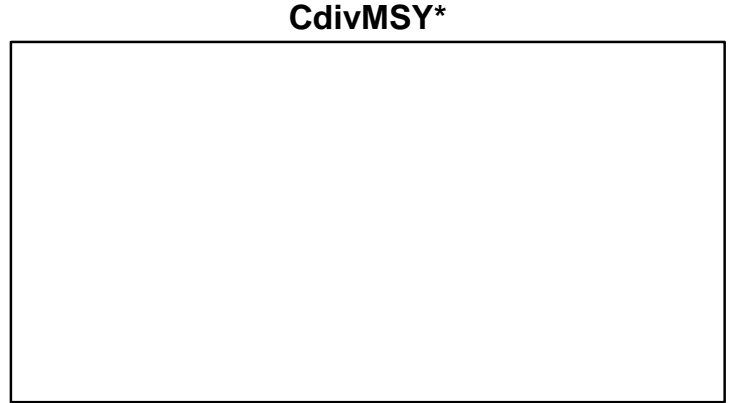
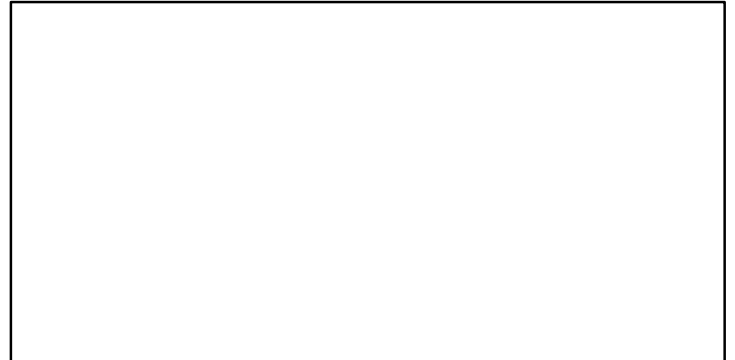
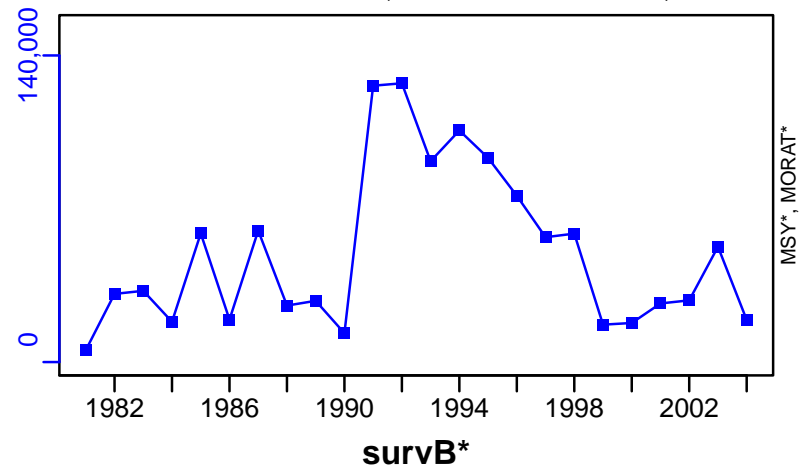
Recruits\*



Blacktip shark Atlantic [BTIPSHARATL]

TC-E00, TL\*, RecC\* (1981-2004-FAUCONNET)

TAC\*, Cpair\*, Cadv\*



## Blacktip shark Gulf of Mexico [BTIPSHARGM]

Metadata	
<b>Scientific Name</b>	Carcharhinus limbatus
<b>Current Assess ID</b>	SEFSC-BTIPSHARGM-1981-2010-HIVELY
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2010

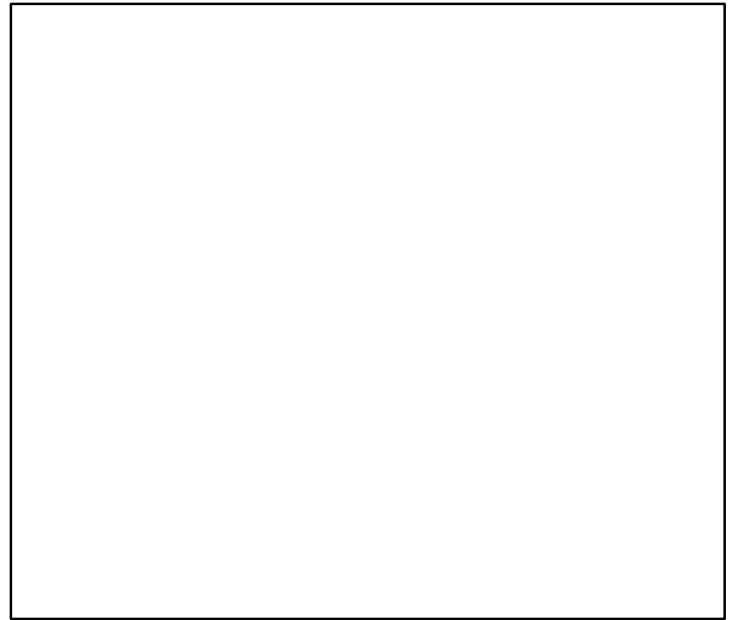
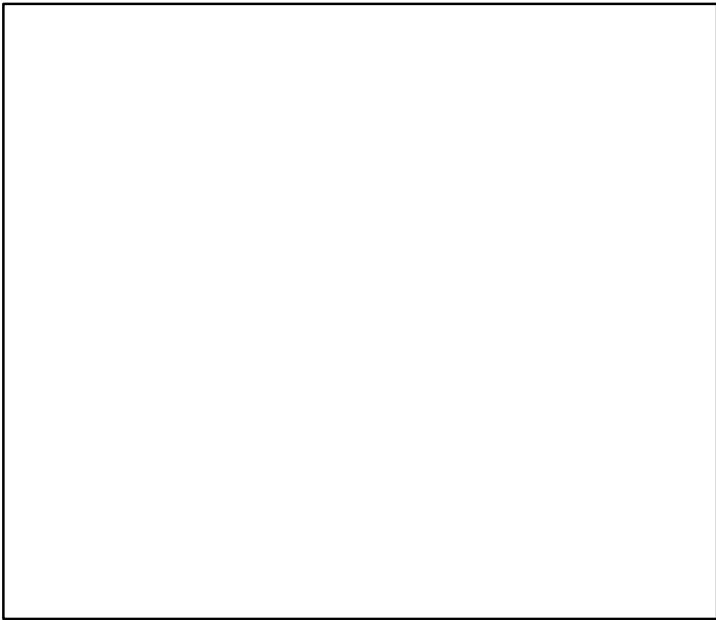
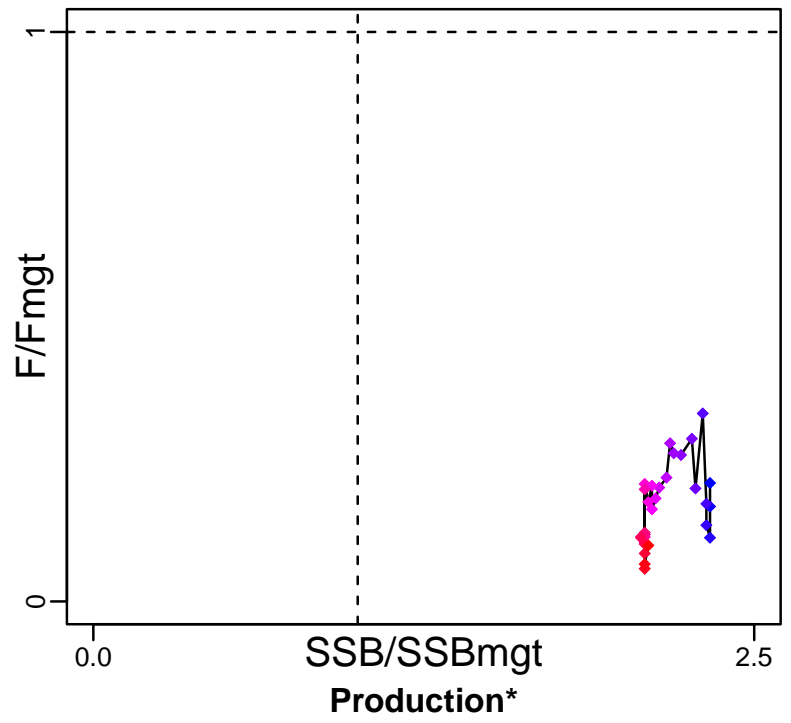
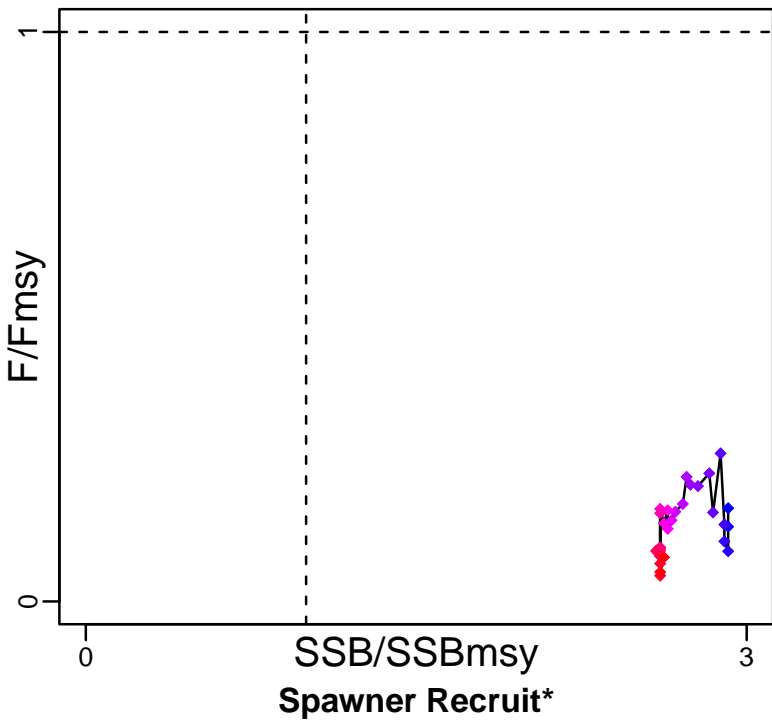
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSFmsy-E00	2010	5,830,000
<b>Fmsy</b>	Fmsy-1/yr	2010	0.08
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-E00	2010	7,287,500
<b>Fmgt</b>	Fmgt-1/yr	2010	0.063
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-E00	2010	1,340,000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSF-E00	2010	15,300,000	-	-
<b>TN</b>	TN-E00	2010	23,800,000	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2010	0.006	-	-
<b>ER</b>	ER-calc-ratio	2010	0.004	-	-
<b>TC</b>	TC-E00	2010	86,700		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSF-E00/SSFmsy-E00	2010	2.624		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2010	0.078		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSF-E00/SSBmgt-E00	2010	2.099		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2010	0.098		
<b>ER/ERmgt</b>	-	-	-		

Blacktip shark Gulf of Mexico [BTIPSHARGM]

Kobe MSYpref (1981–2010–HIVELY)

Kobe MGTpref (1981–2010–HIVELY)



◆ Start Year ◆ End Year \* No Data

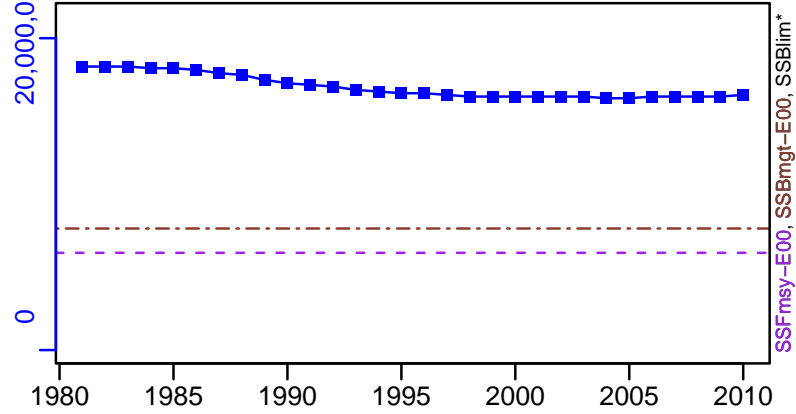


Blacktip shark Gulf of Mexico [BTIPSHARGM]

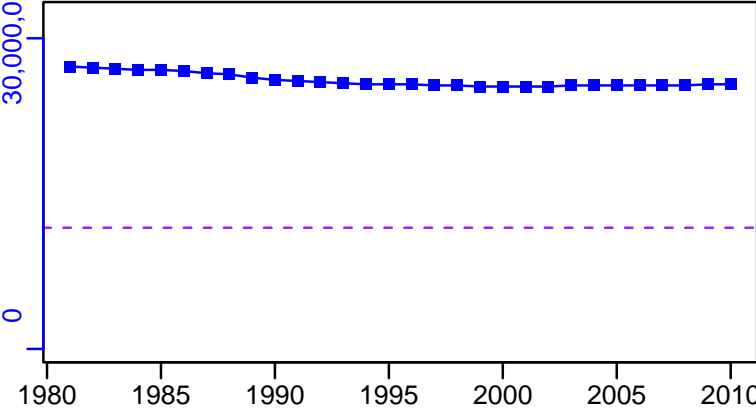
TB\*



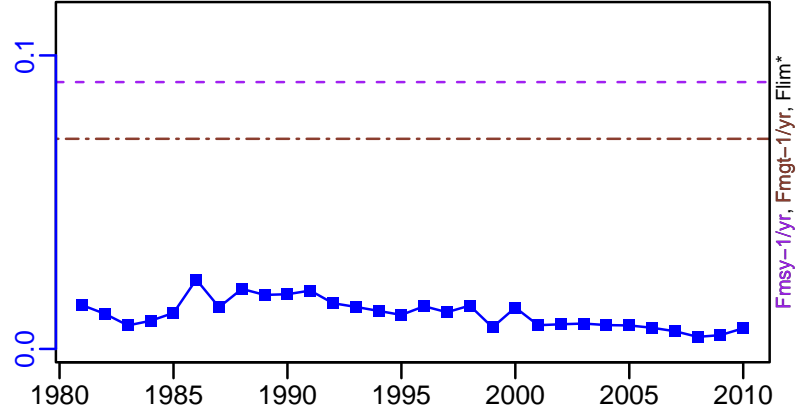
SSF-E00 (1981-2010-HIVELY)



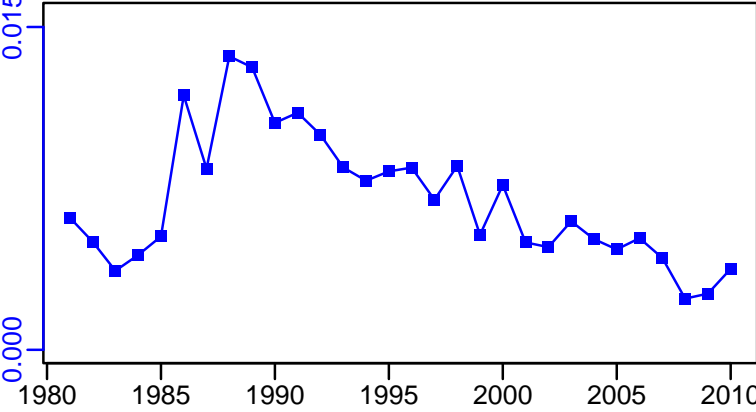
TN-E00 (1981-2010-HIVELY)



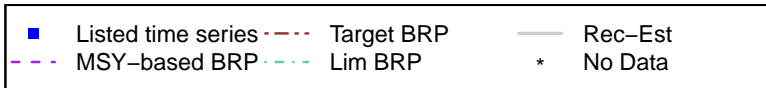
F-1/yr (1981-2010-HIVELY)



ER-calc-ratio (1981-2010-HIVELY)



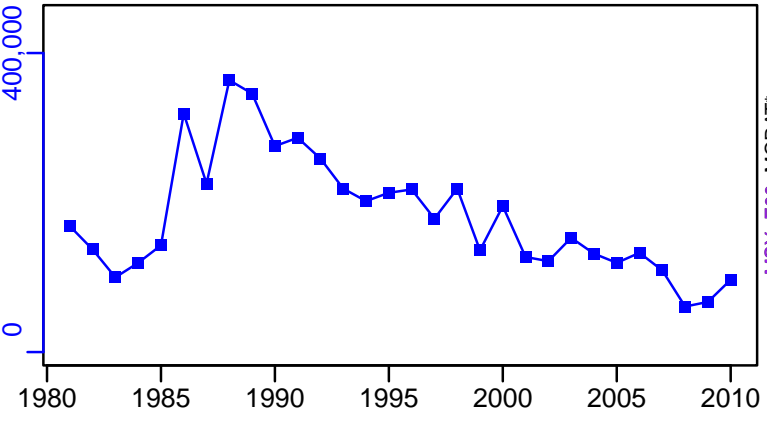
Recruits\*



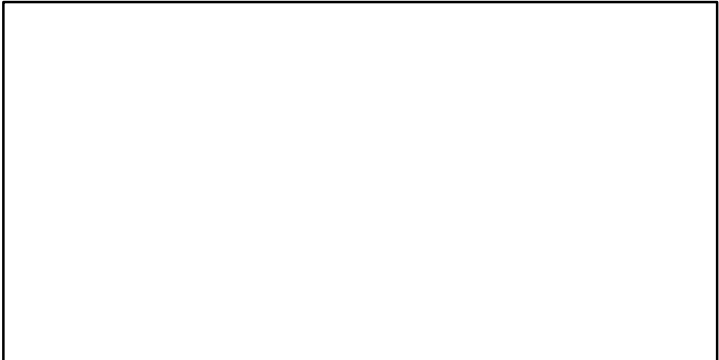
Blacktip shark Gulf of Mexico [BTIPSHARGM]

TC-E00, TL\*, RecC\* (1981-2010-HIVELY)

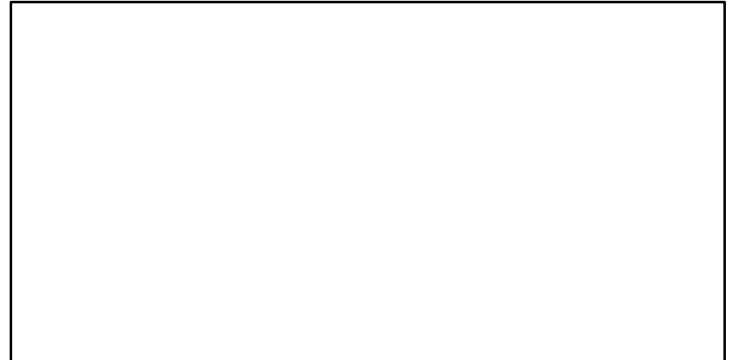
TAC\*, Cpair\*, Cadv\*



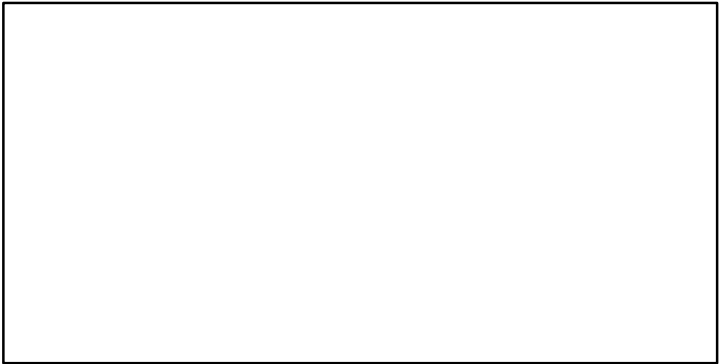
survB\*



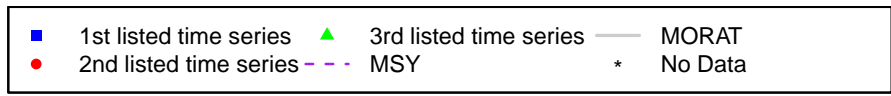
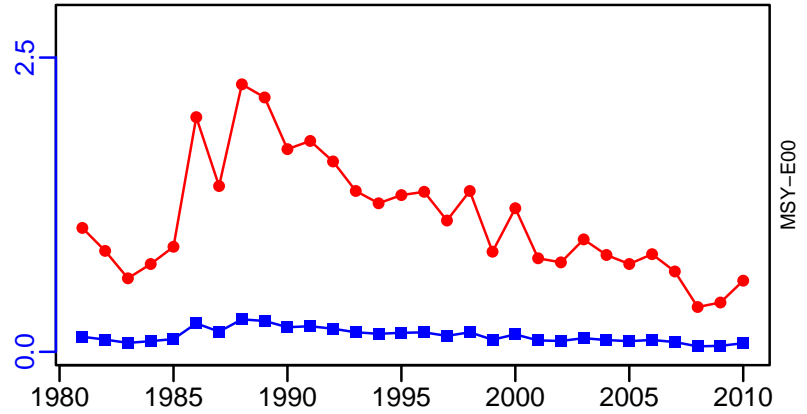
CPUE\*



EFFORT\*



TC-E00/MSY-E00, CdivMEANC-ratio, (1981-2010-HIVELY)



## Cobia Gulf of Mexico [COBGM]

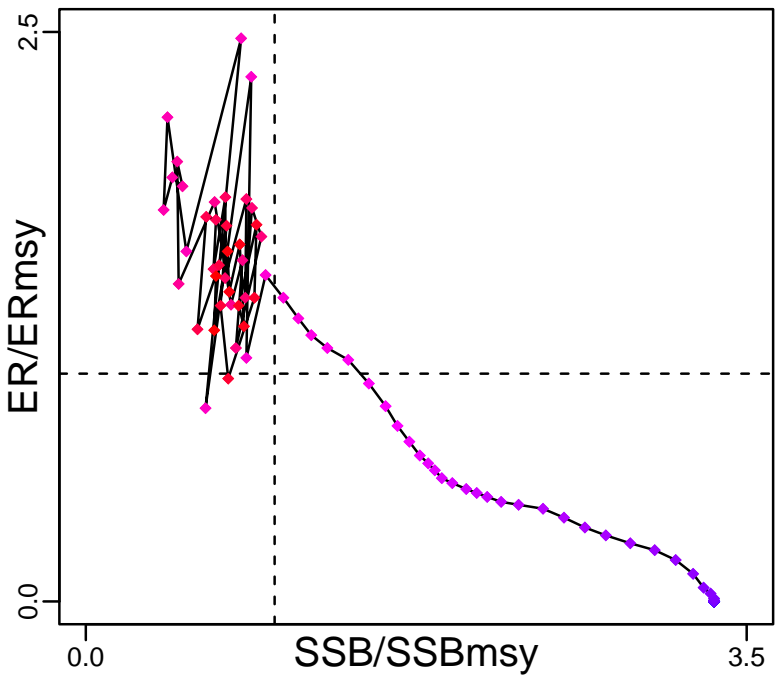
Metadata	
<b>Scientific Name</b>	Rachycentron canadum
<b>Current Assess ID</b>	SEFSC-COBGM-1927-2018-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011,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

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

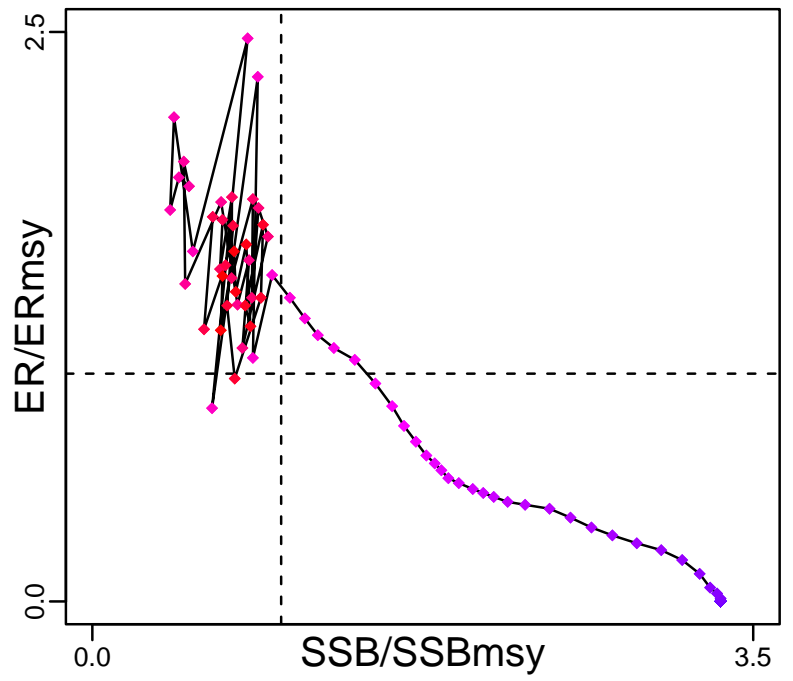
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	3020	-	1+
<b>SSB</b>	SSB-MT	2018	3730	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	1,300,000	-	0
<b>F</b>	F-1/yr	2011	0.676	-	-
<b>ER</b>	ER-ratio	2018	0.33	-	-
<b>TC</b>	TC-MT	2018	1870		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-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

Cobia Gulf of Mexico [COBGM]

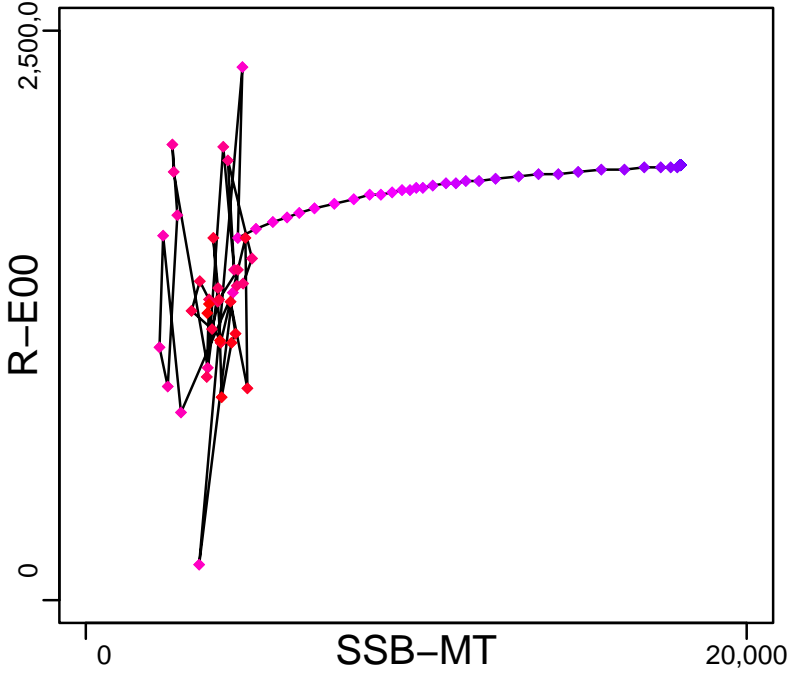
Kobe MSYpref (1927-2018-SISIMP2021-2)



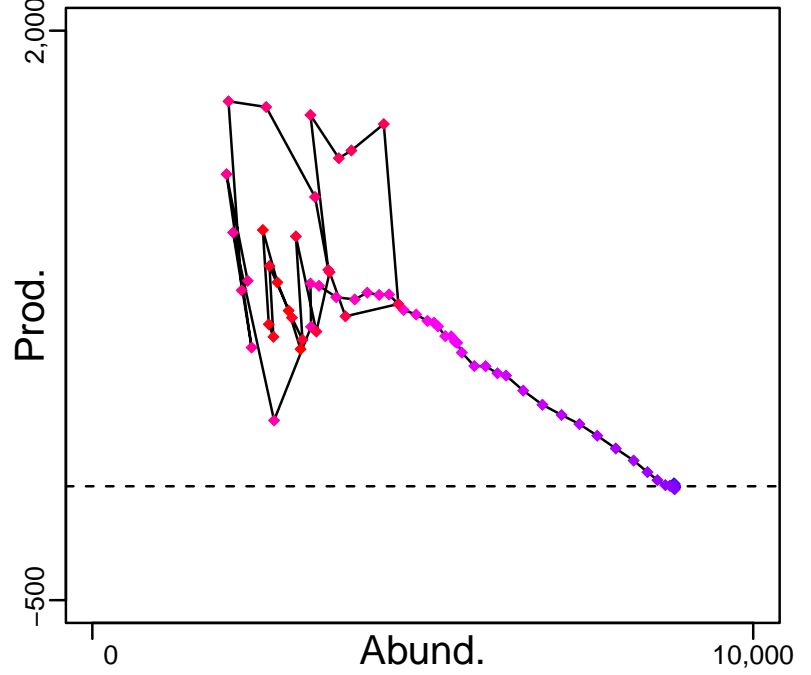
Kobe MGTpref (1927-2018-SISIMP2021-2)



Spawner Recruit (1927-2018-SISIMP2021-2)



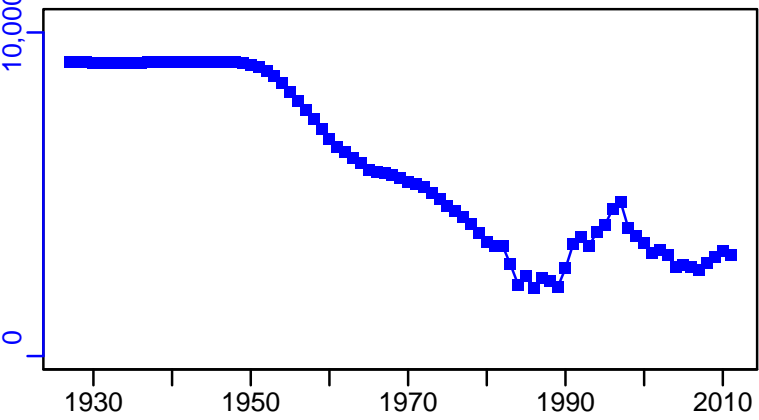
Production (1927-2018-SISIMP2021-2)



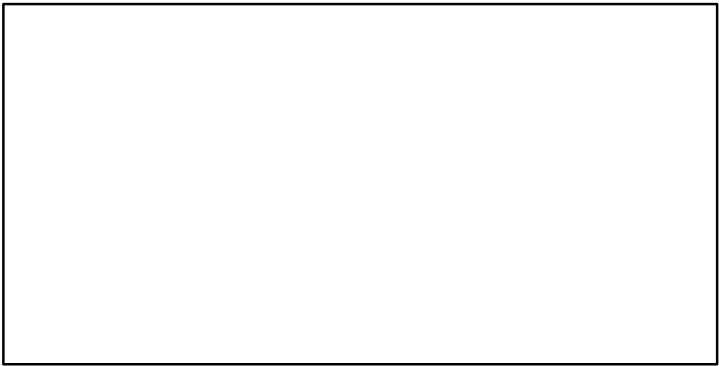
◆ Start Year ◆ End Year \* No Data

Cobia Gulf of Mexico [COBGM]

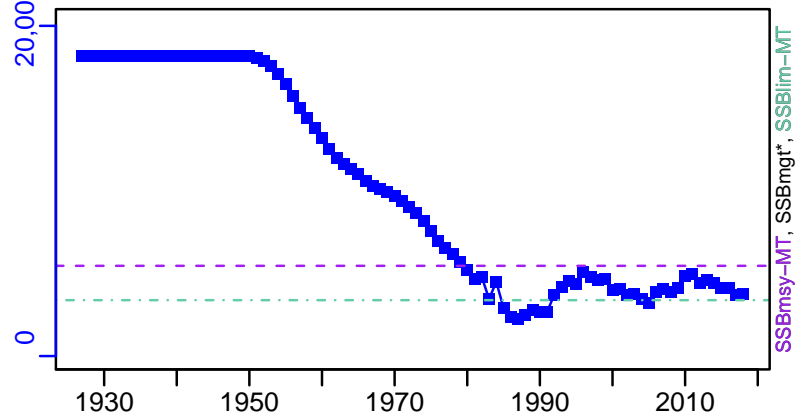
TB-MT (1927-2011-SISIMP2016)



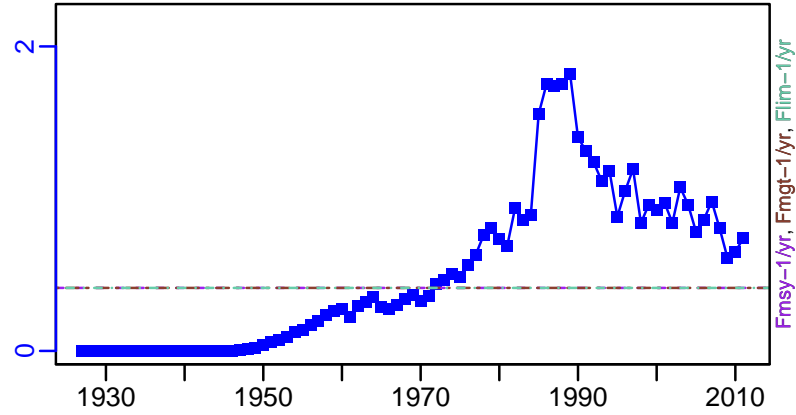
TN \*



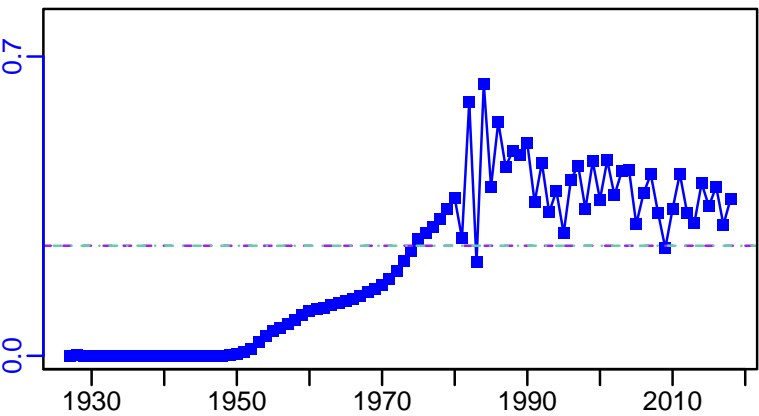
SSB-MT (1927-2018-SISIMP2021-2)



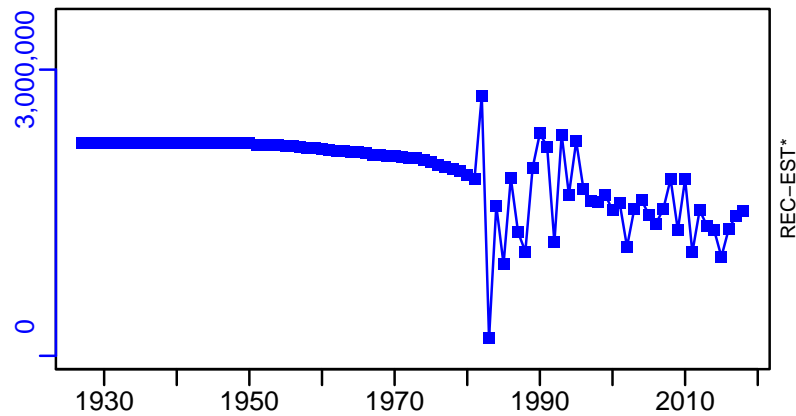
F-1/yr (1927-2011-SISIMP2016)



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



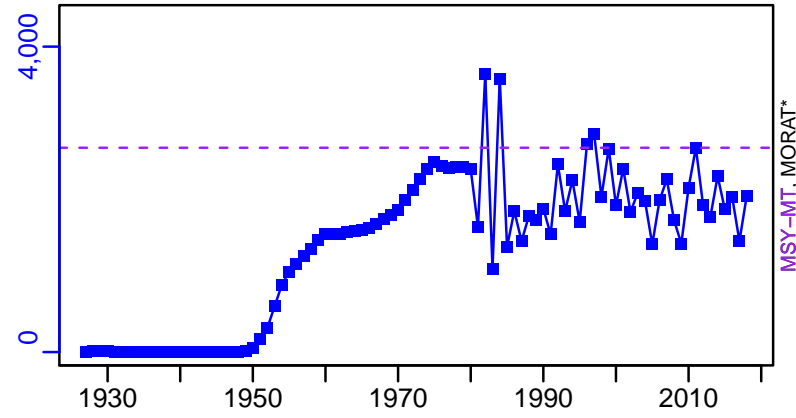
R-E00 (1927-2018-SISIMP2021-2)



Cobia Gulf of Mexico [COBGM]

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

TAC\*, Cpair\*, Cadv\*

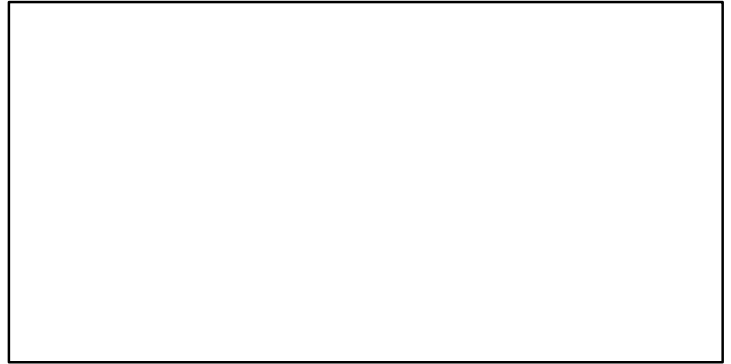


MSY-MT, MORAT\*

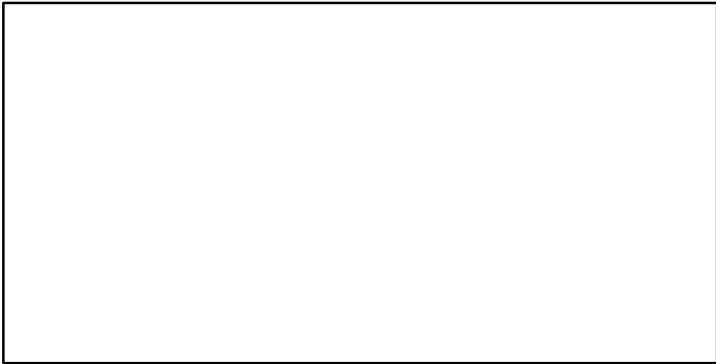
survB\*



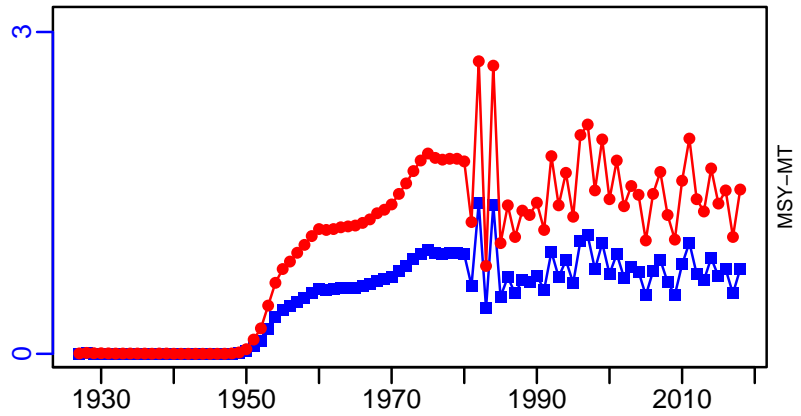
CPUE\*



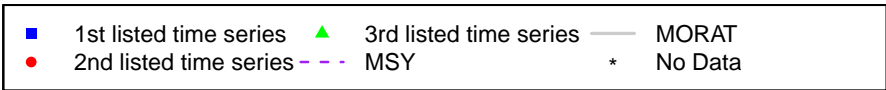
EFFORT\*



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



MSY-MT



## Cobia Southern Atlantic coast [COBSATLC]

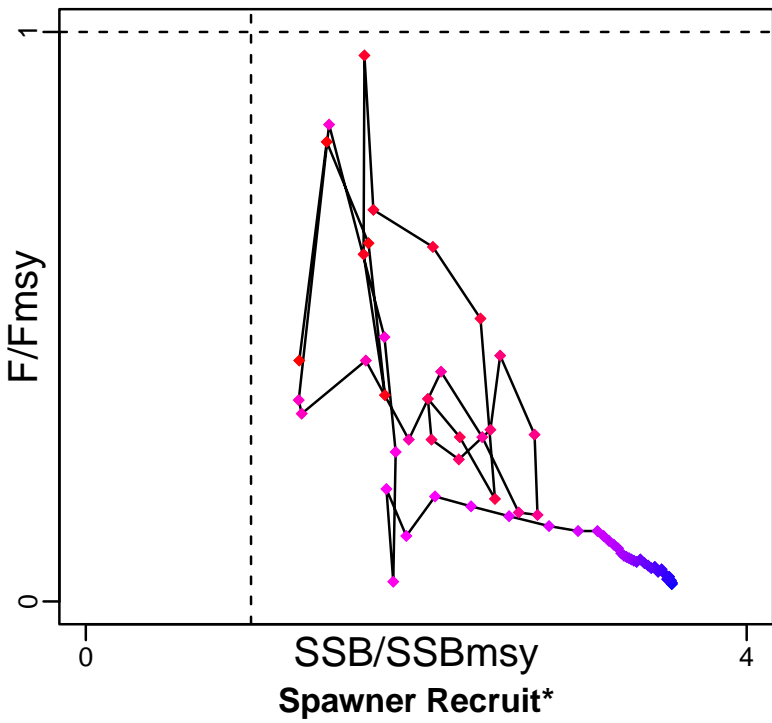
Metadata	
<b>Scientific Name</b>	Rachycentron canadum
<b>Current Assess ID</b>	SEFSC-COBSATLC-1950-2011-SISIMP2016
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM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

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

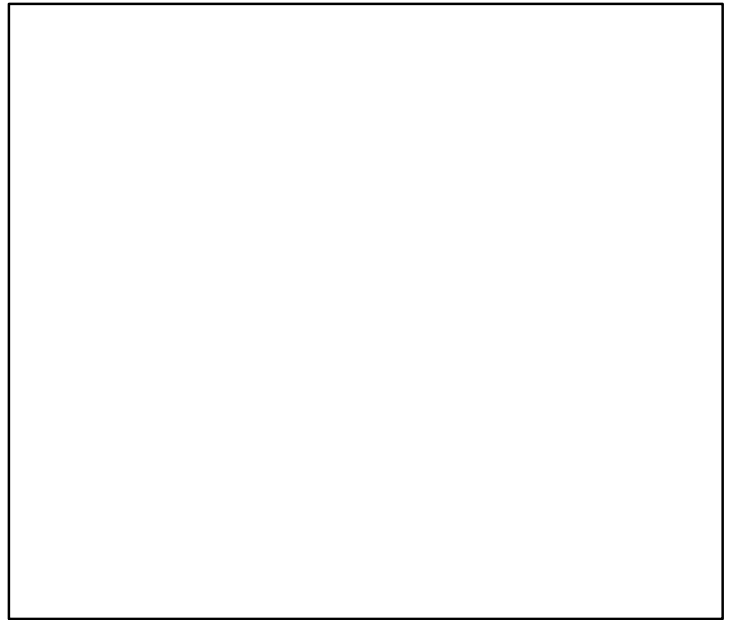
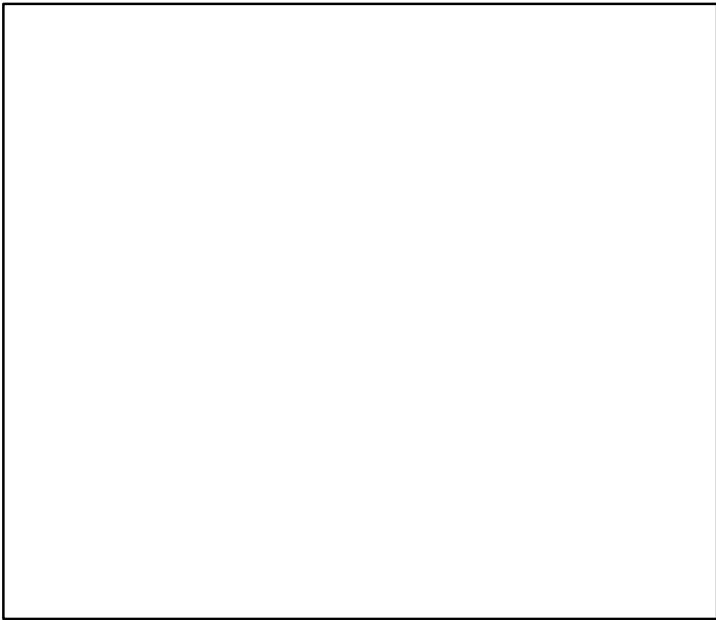
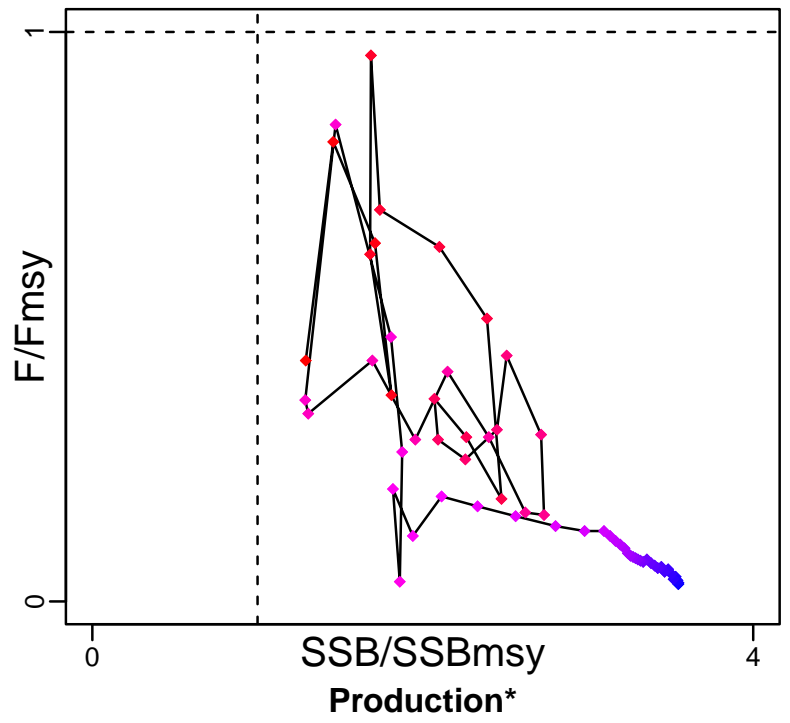
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2011	693	Females	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2011	0.195	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2011	15	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT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

Cobia Southern Atlantic coast [COBSATLC]

Kobe MSYpref (1950–2011–SISIMP2016)



Kobe MGTpref (1950–2011–SISIMP2016)



◆ Start Year ◆ End Year \* No Data

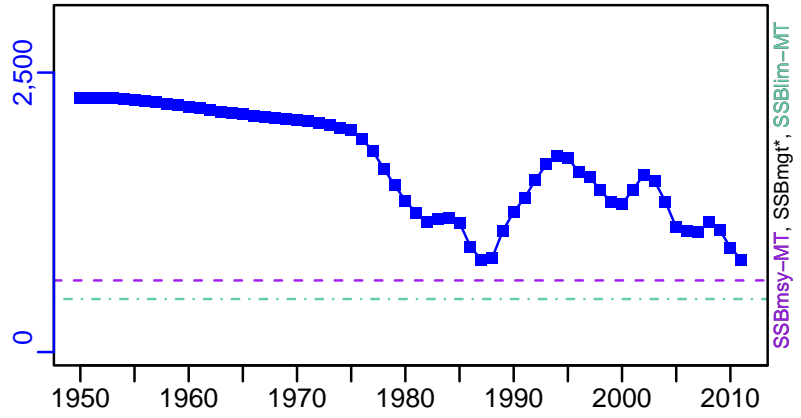


Cobia Southern Atlantic coast [COBSATLC]

TB\*



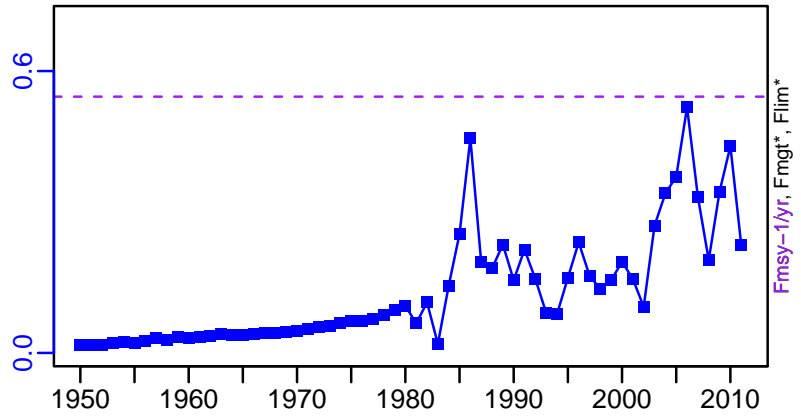
SSB-MT (1950-2011-SISIMP2016)



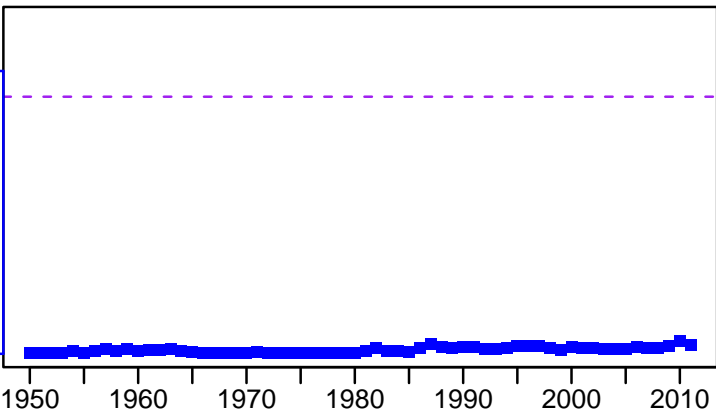
TN \*



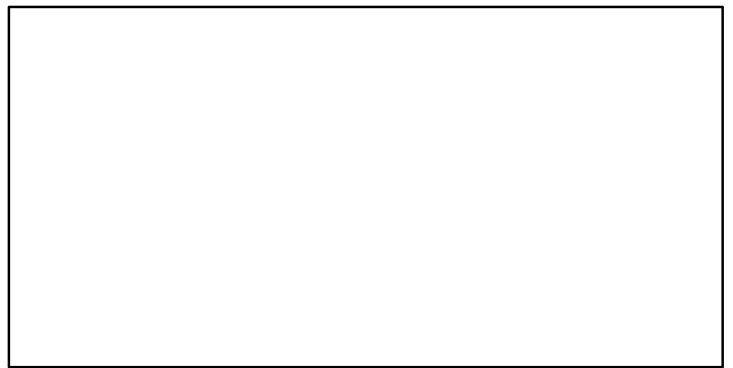
F-1/yr (1950-2011-SISIMP2016)



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



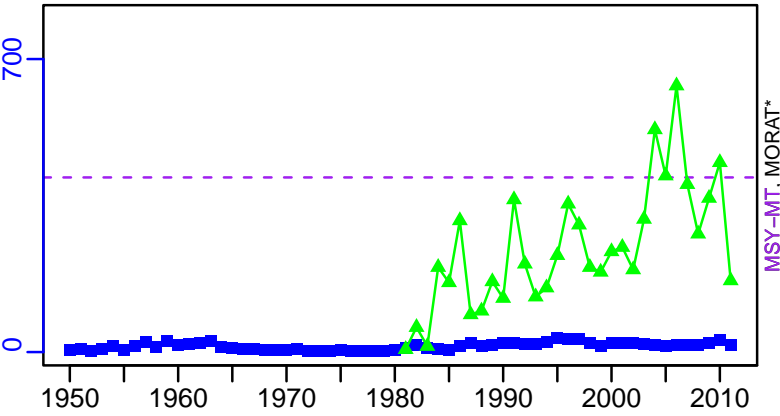
Recruits\*



Cobia Southern Atlantic coast [COBSATLC]

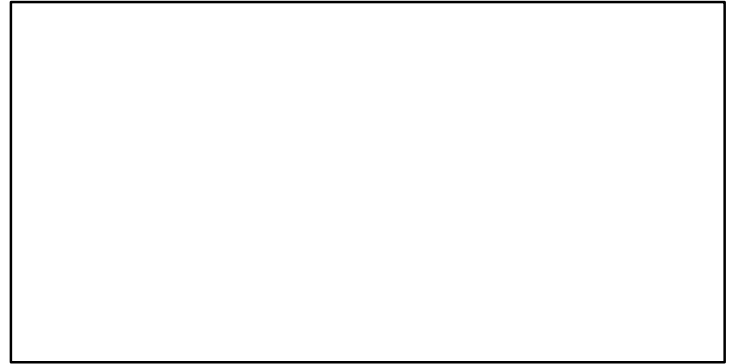
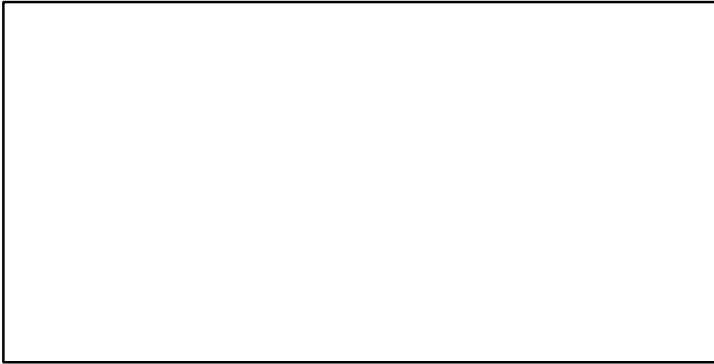
TL-MT, TC\*, RecC-MT (1950-2011-SISIMP2016)

TAC\*, Cpair\*, Cadv\*



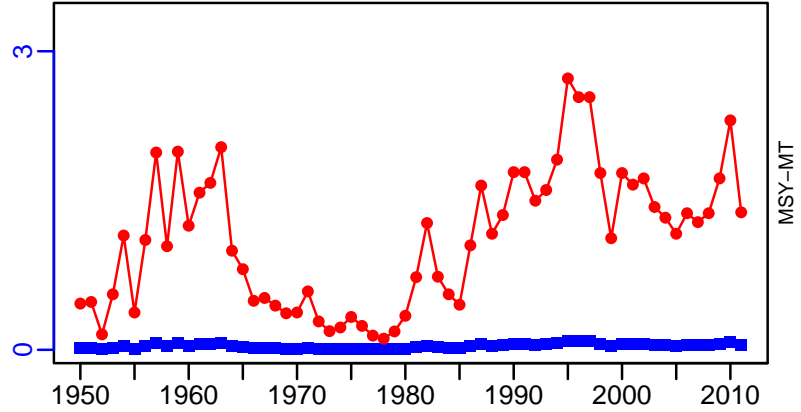
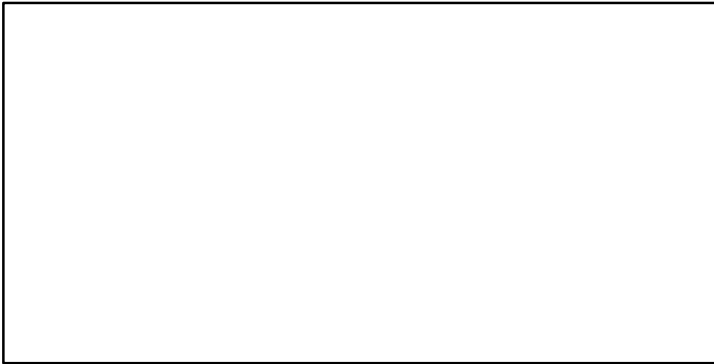
survB\*

CPUE\*



EFFORT\*

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



## Caribbean spiny lobster Puerto Rico [CSLOBSTERPR]

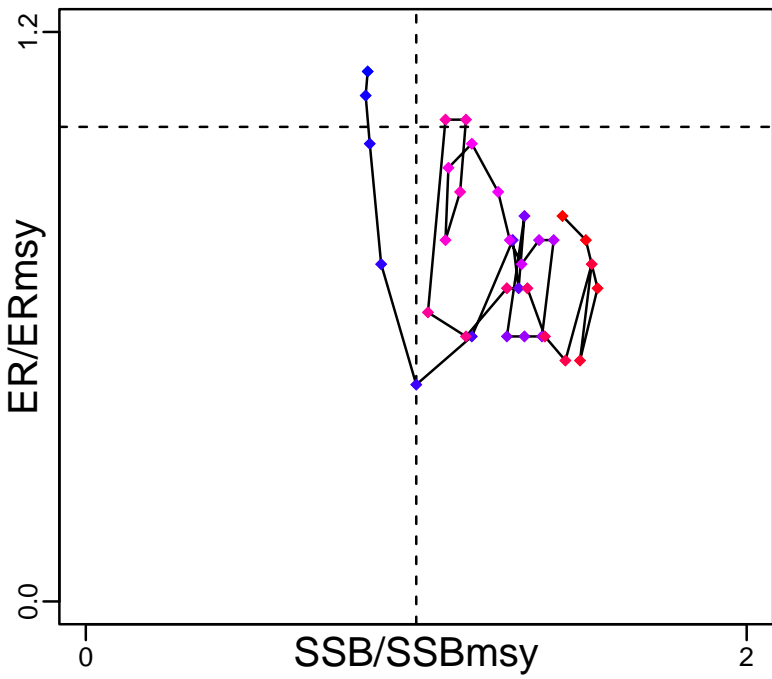
Metadata	
<b>Scientific Name</b>	Panulirus argus
<b>Current Assess ID</b>	SEFSC-CSLOBSTERPR-1983-2017-SISIMP2021-2
<b>Area</b>	Puerto Rico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2017	997
<b>SSBmsy</b>	SSBmsy-E00eggs	2017	$1.13 \times 10^{11}$
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2017	0.197
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2017	196
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2017	$8.48 \times 10^{10}$
<b>Flim</b>	-	-	-
<b>ERlim</b>	ERlim-ratio	2017	0.197

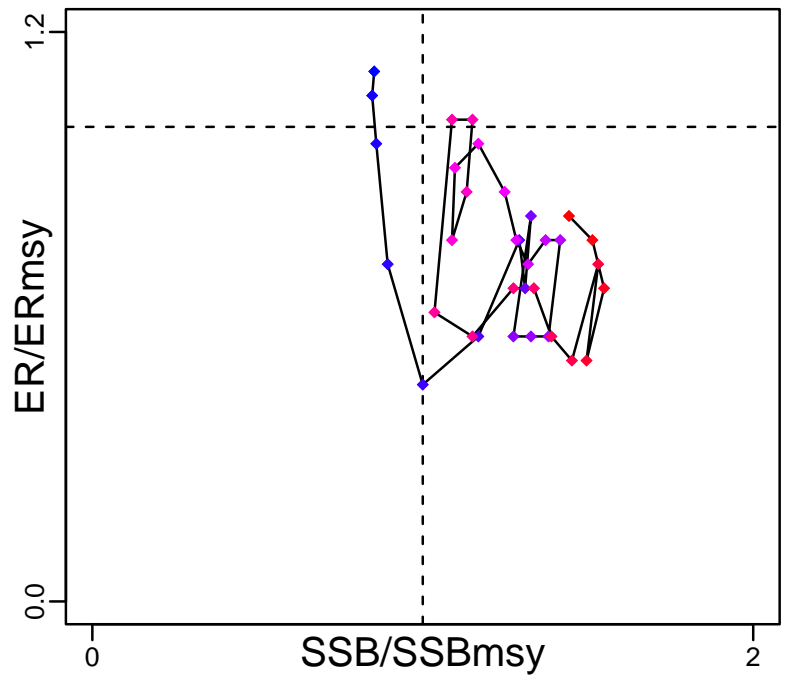
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-E00eggs	2017	$1.52 \times 10^{11}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	1,080,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2017	0.16	-	-
<b>TC</b>	TC-MT	2017	235		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2017	1.345		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2017	0.812		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Caribbean spiny lobster Puerto Rico [CSLOBSTERPR]

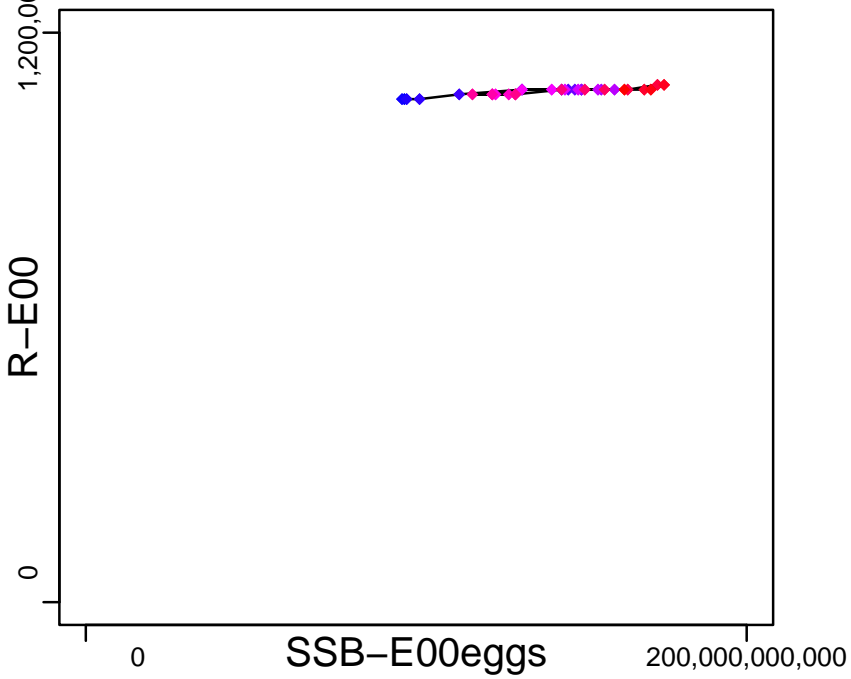
Kobe MSYpref (1983–2017–SISIMP2021–2)



Kobe MGTpref (1983–2017–SISIMP2021–2)



Spawner Recruit (1983–2017–SISIMP2021–2)



Production\*



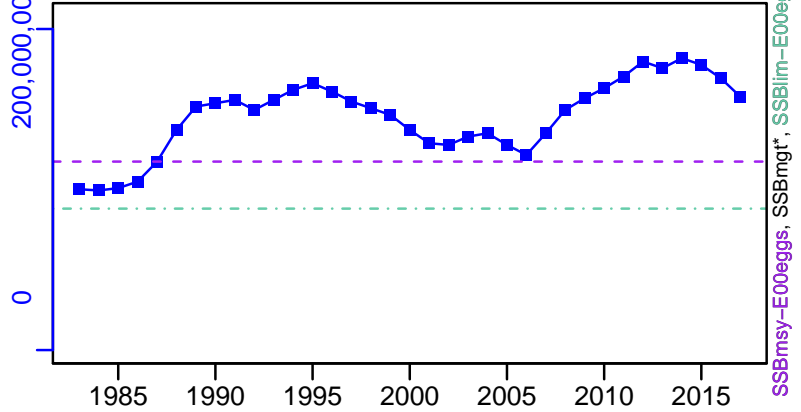
◆ Start Year ◆ End Year \* No Data

Caribbean spiny lobster Puerto Rico [CSLOBSTERPR]

TB\*



SSB-E00eggs (1983-2017-SISIMP2021-2)



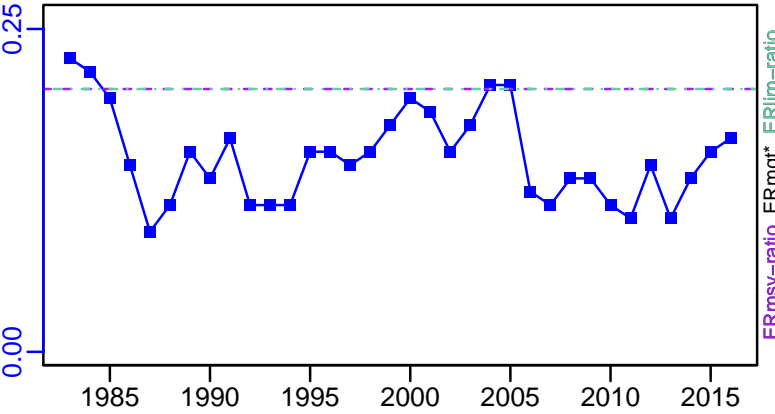
TN \*



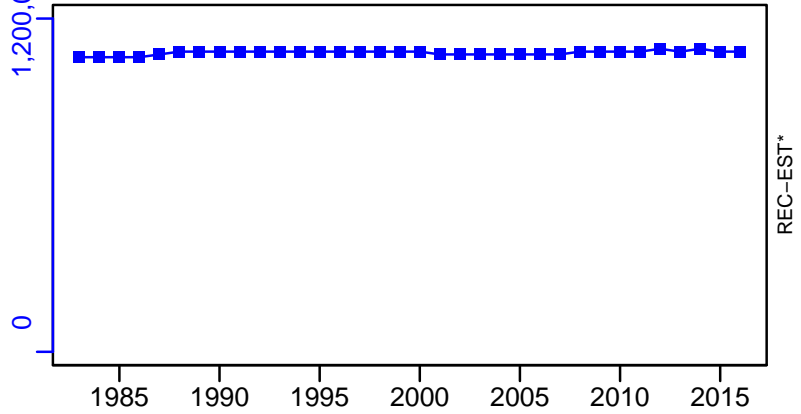
F\*



ER-ratio (1983-2017-SISIMP2021-2)



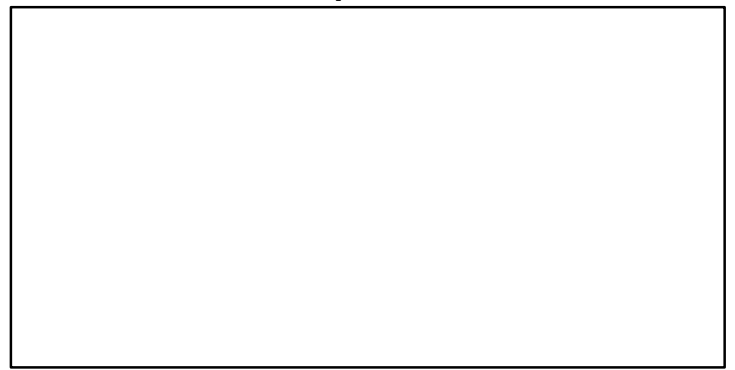
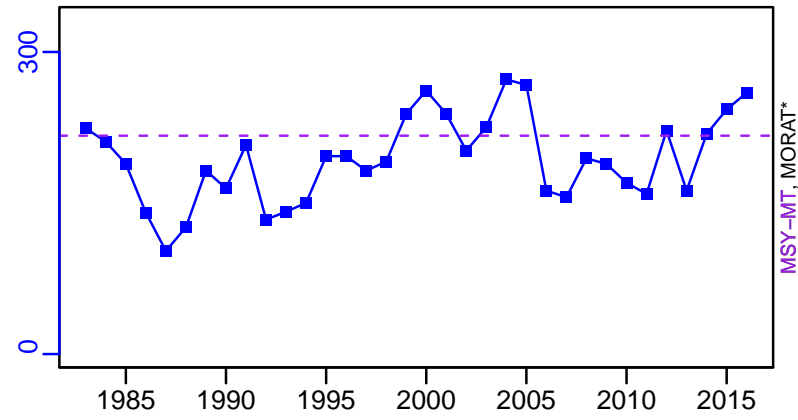
R-E00 (1983-2017-SISIMP2021-2)



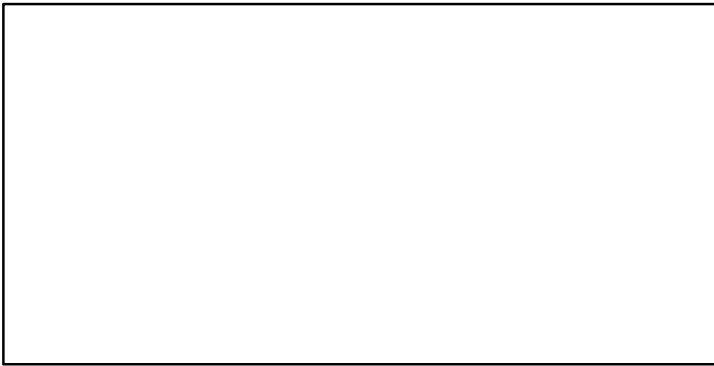
Caribbean spiny lobster Puerto Rico [CSLOBSTERPR]

TC-MT, TL\*, RecC\* (1983-2017-SISIMP2021-2)

TAC\*, Cpair\*, Cadv\*



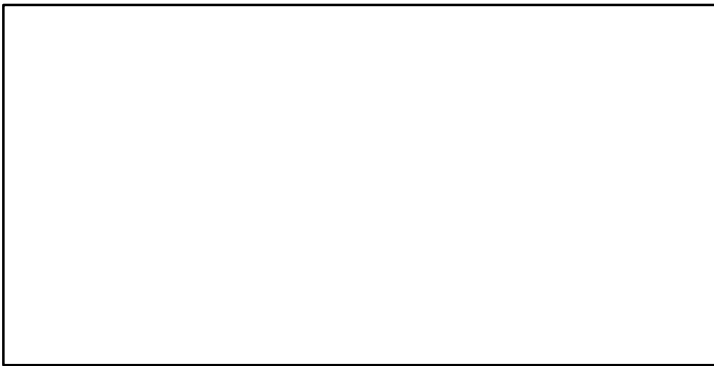
survB\*



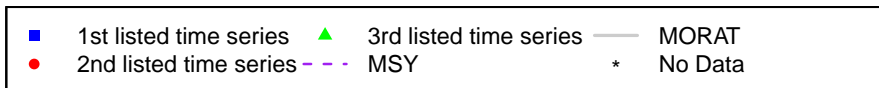
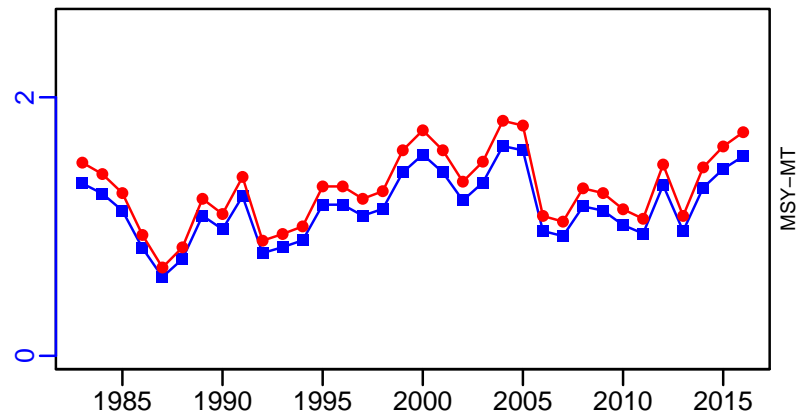
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1983-2017-SISIMP2021-2)



## Caribbean spiny lobster Saint Croix [CSLOBSTERSTC]

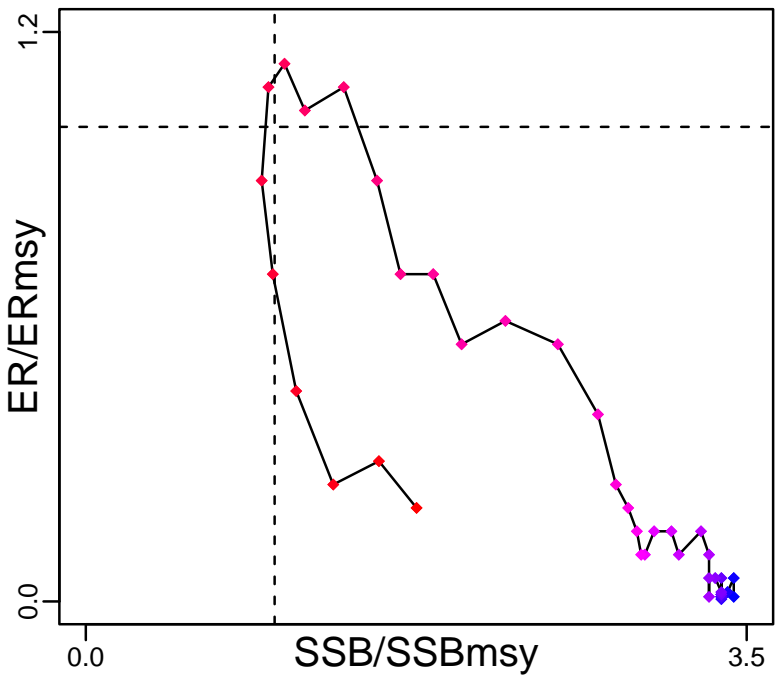
Metadata	
<b>Scientific Name</b>	Panulirus argus
<b>Current Assess ID</b>	SEFSC-CSLOBSTERSTC-1976-2017-SISIMP2021-2
<b>Area</b>	Saint Croix
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2017	286
<b>SSBmsy</b>	SSBmsy-E00eggs	2017	$3.06 \times 10^{10}$
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2017	0.203
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2017	58
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2017	$2.3 \times 10^{10}$
<b>Flim</b>	-	-	-
<b>ERlim</b>	ERlim-ratio	2017	0.203

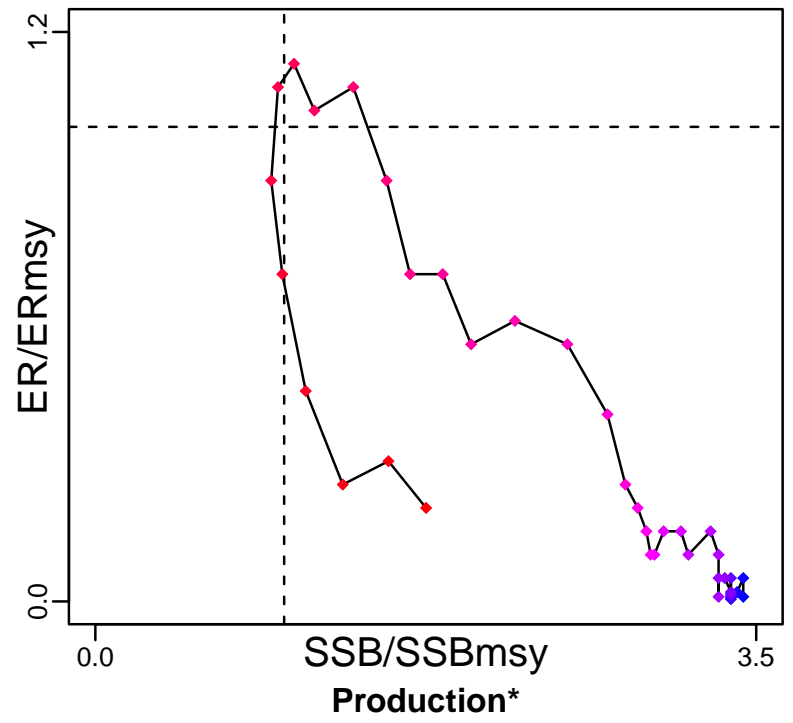
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-E00eggs	2017	$6 \times 10^{10}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	295,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2017	0.04	-	-
<b>TC</b>	TC-MT	2017	15		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2017	1.961		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2017	0.197		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Caribbean spiny lobster Saint Croix [CSLOBSTERSTC]

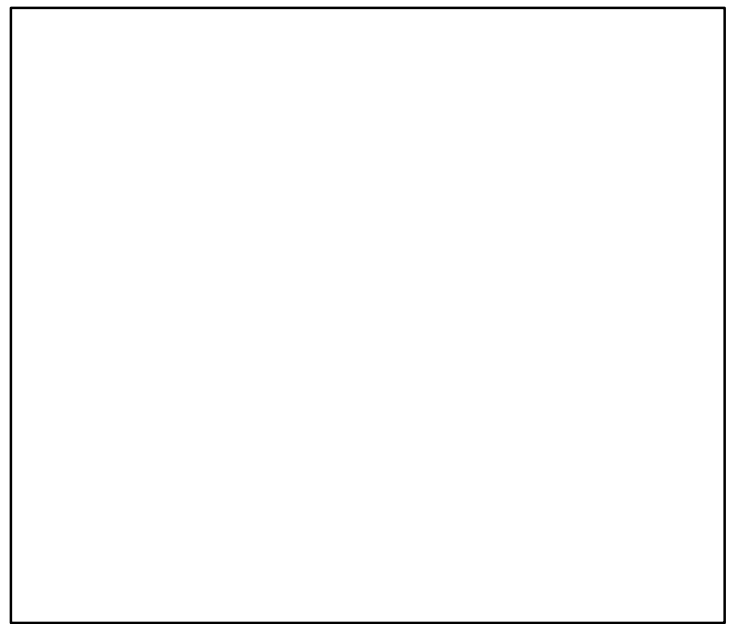
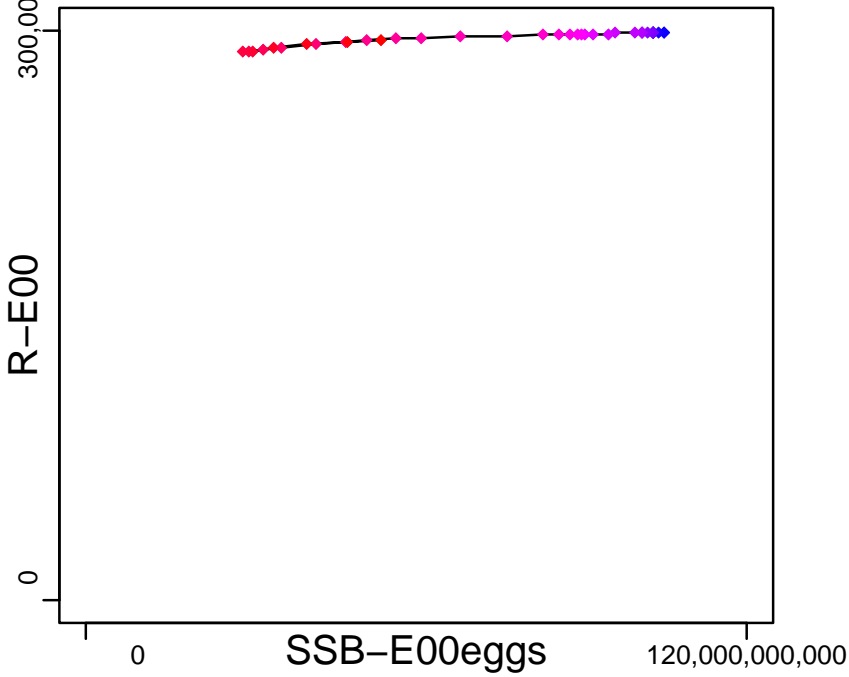
Kobe MSYpref (1976–2017–SISIMP2021–2)



Kobe MGTpref (1976–2017–SISIMP2021–2)



Spawner Recruit (1976–2017–SISIMP2021–2)



◆ Start Year ◆ End Year \* No Data

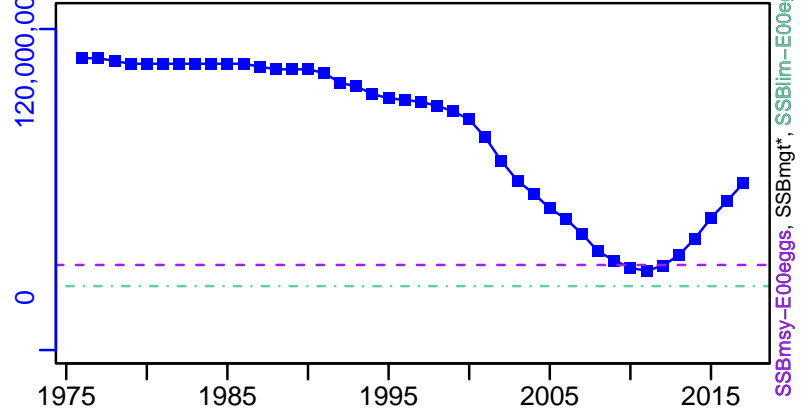


Caribbean spiny lobster Saint Croix [CSLOBSTERSTC]

TB\*



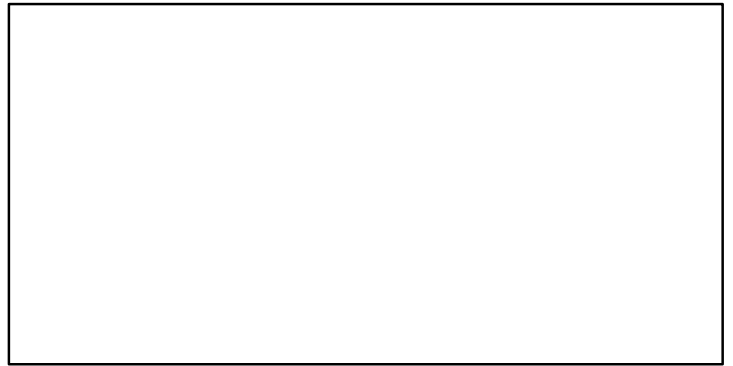
SSB-E00eggs (1976-2017-SISIMP2021-2)



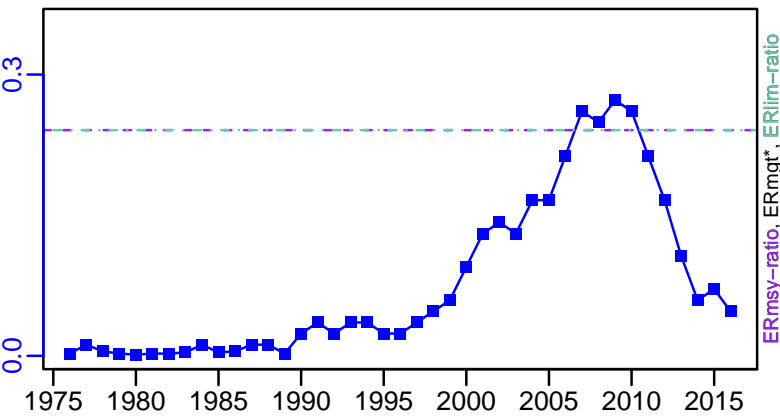
TN \*



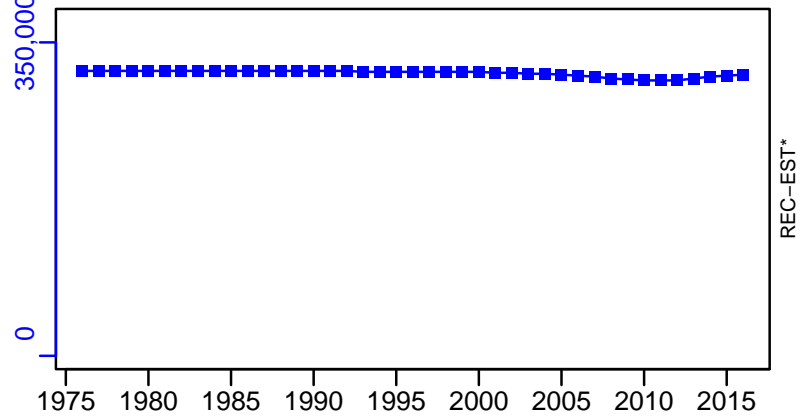
F\*



ER-ratio (1976-2017-SISIMP2021-2)



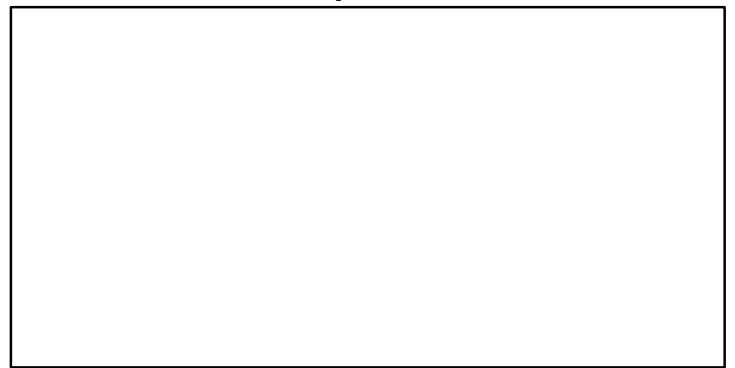
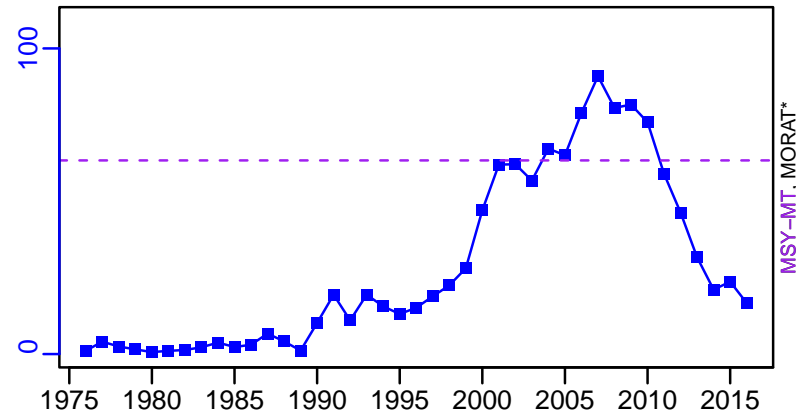
R-E00 (1976-2017-SISIMP2021-2)



Caribbean spiny lobster Saint Croix [CSLOBSTERSTC]

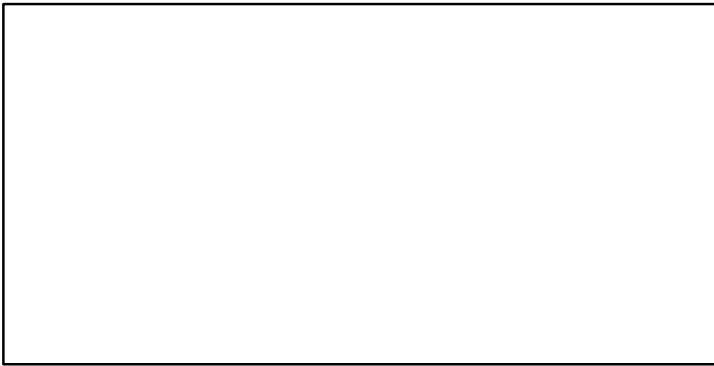
TC-MT, TL\*, RecC\* (1976-2017-SISIMP2021-2)

TAC\*, Cpair\*, Cadv\*



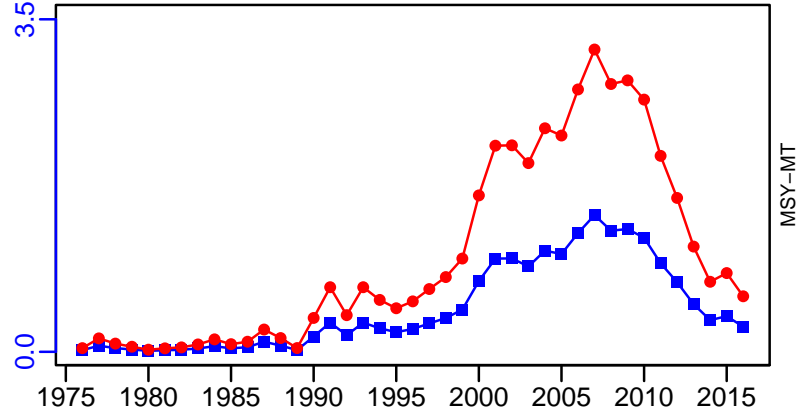
survB\*

CPUE\*



EFFORT\*

TC-MT/MSY-MT, CdivMEANC-ratio, (1976-2017-SISIMP2021-2)



## Caribbean spiny lobster Saint Thomas / Saint John [CSLOBSTERSTT\_STJ]

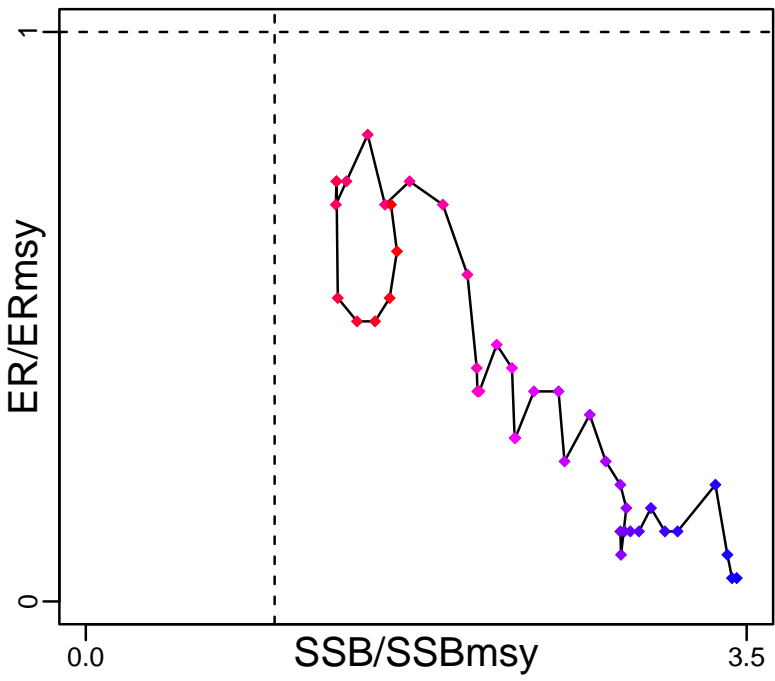
Metadata	
<b>Scientific Name</b>	Panulirus argus
<b>Current Assess ID</b>	SEFSC-CSLOBSTERSTT_STJ-1975-2017-SISIMP2021-2
<b>Area</b>	Saint Thomas / Saint John
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2017	249
<b>SSBmsy</b>	SSBmsy-E00eggs	2017	$2.84 \times 10^{10}$
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2017	0.244
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2017	61
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2017	$2.13 \times 10^{10}$
<b>Flim</b>	-	-	-
<b>ERlim</b>	ERlim-ratio	2017	0.244

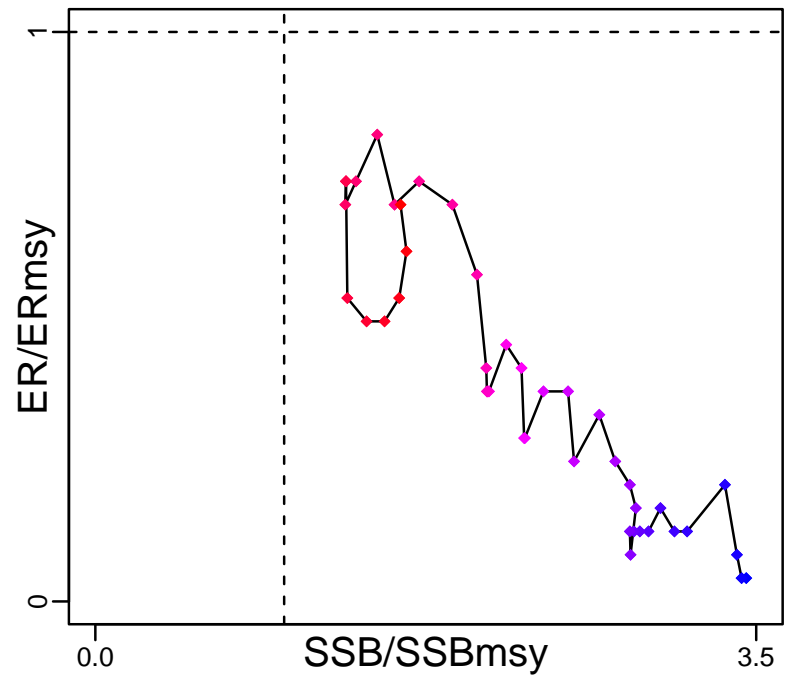
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-E00eggs	2017	$4.4 \times 10^{10}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	274,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2017	0.17	-	-
<b>TC</b>	TC-MT	2017	59		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2017	1.549		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2017	0.697		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Caribbean spiny lobster Saint Thomas / Saint John [CSLOBSTERSTT\_STJ]

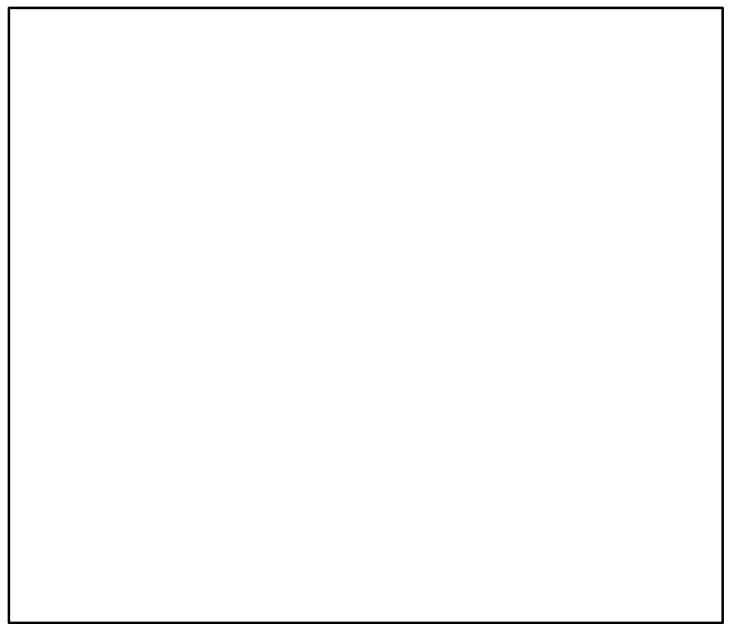
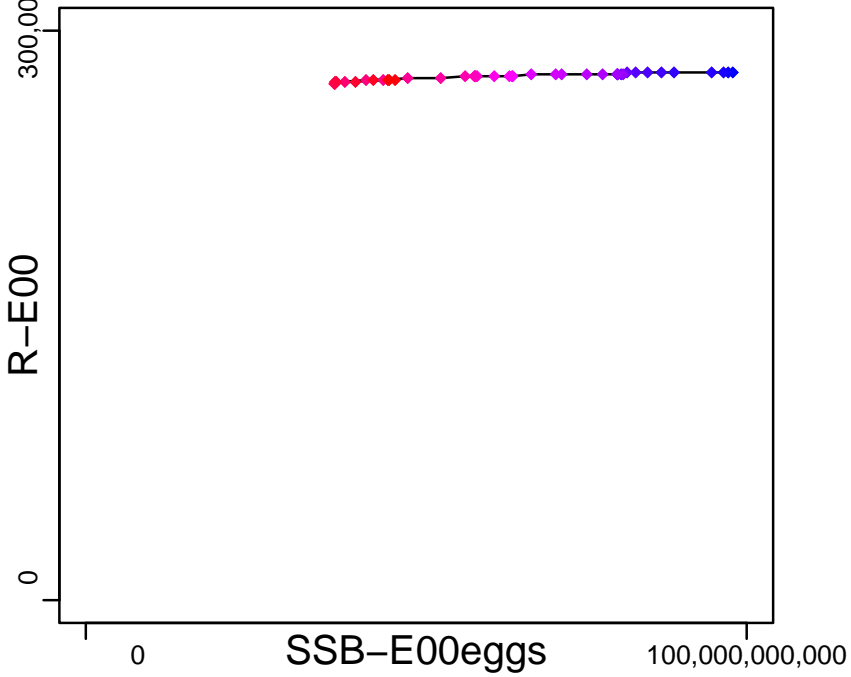
Kobe MSYpref (1975-2017-SISIMP2021-2)



Kobe MGTpref (1975-2017-SISIMP2021-2)



Spawner Recruit (1975-2017-SISIMP2021-2)



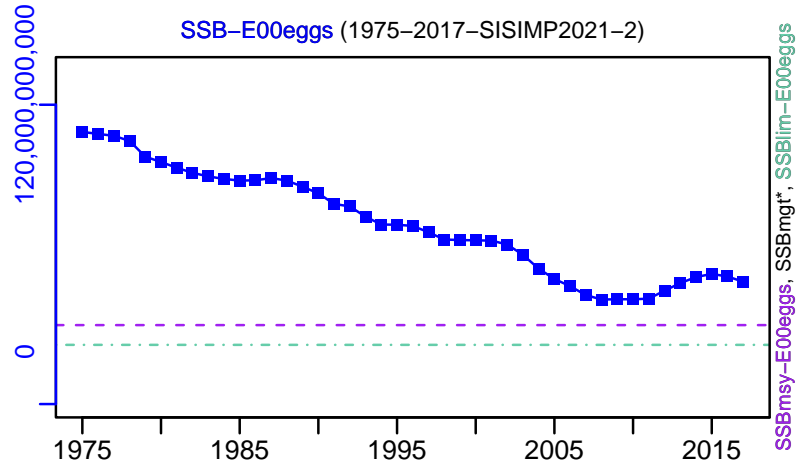
◆ Start Year ◆ End Year \* No Data

Caribbean spiny lobster Saint Thomas / Saint John [CSLOBSTERSTT\_STJ]

TB\*



SSB-E00eggs (1975-2017-SISIMP2021-2)



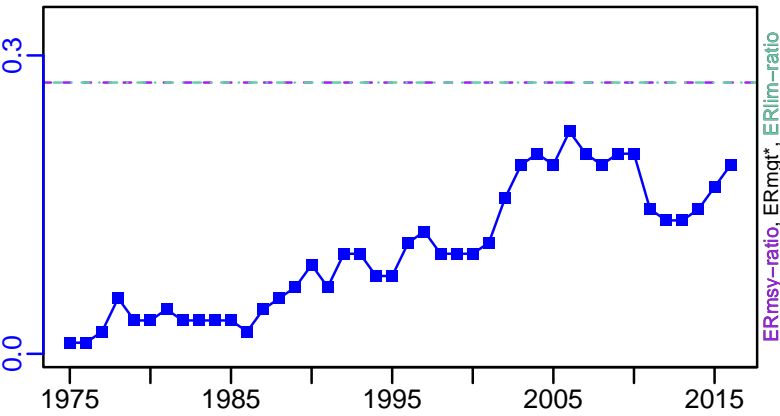
TN \*



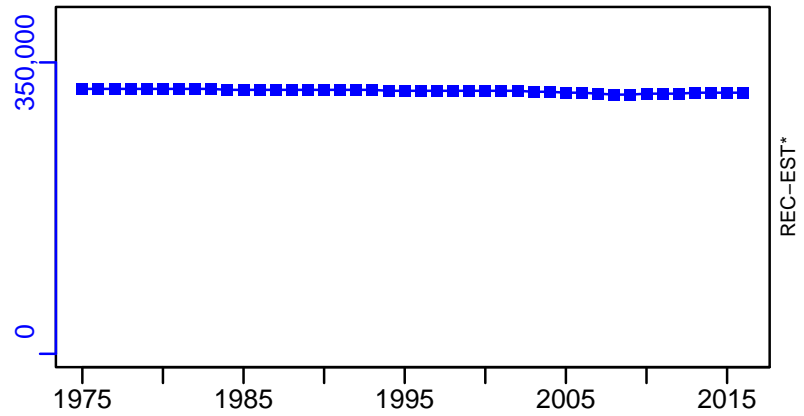
F\*



ER-ratio (1975-2017-SISIMP2021-2)



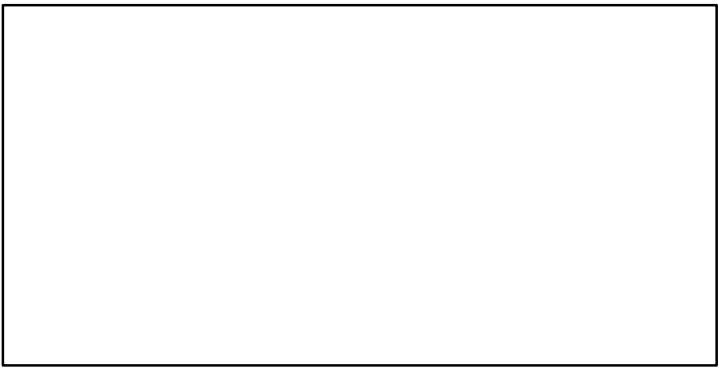
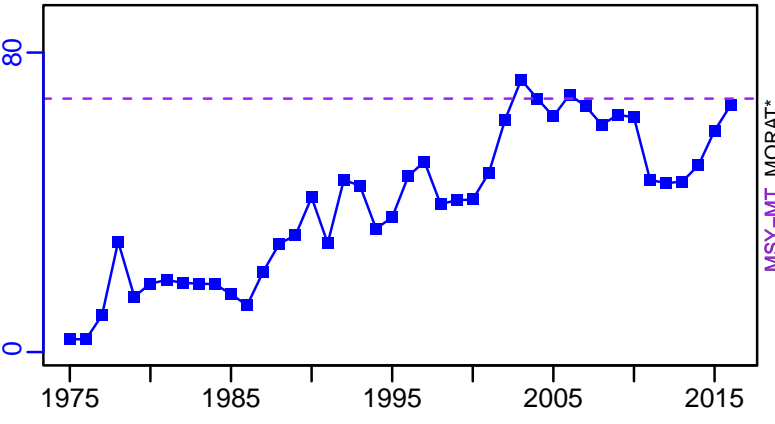
R-E00 (1975-2017-SISIMP2021-2)



Caribbean spiny lobster Saint Thomas / Saint John [CSLOBSTERSTT\_STJ]

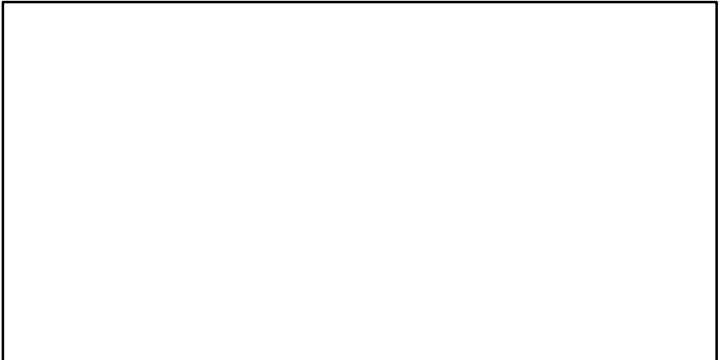
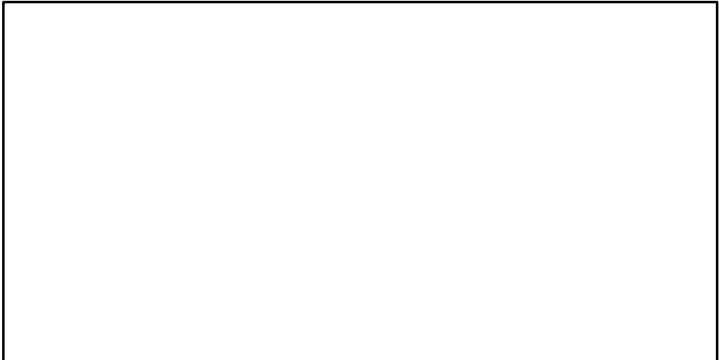
TC-MT, TL\*, RecC\* (1975-2017-SISIMP2021-2)

TAC\*, Cpair\*, Cadv\*



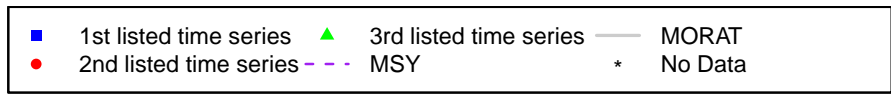
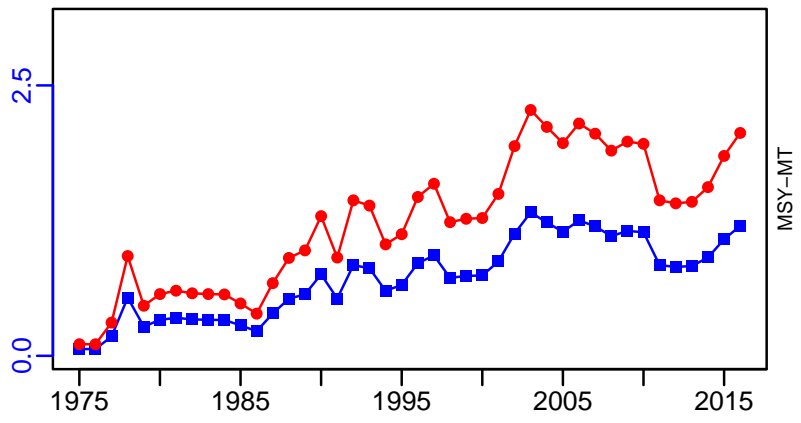
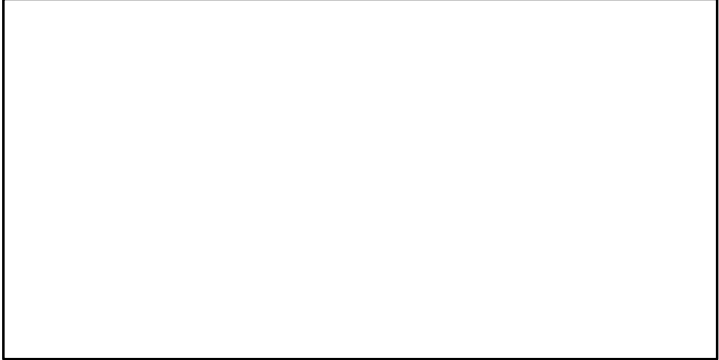
survB\*

CPUE\*



EFFORT\*

TC-MT/MSY-MT, CdivMEANC-ratio, (1975-2017-SISIMP2021-2)



## Dusky shark Gulf of Mexico and Atlantic [DSKSHARGMATL]

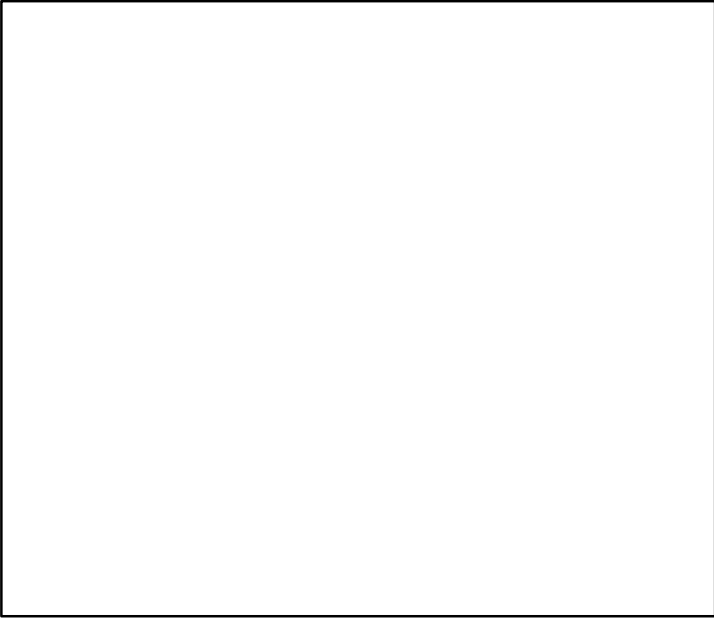
Metadata	
<b>Scientific Name</b>	Carcharhinus obscurus
<b>Current Assess ID</b>	SEFSC-DSKSHARGMATL-1960-2009-SISIMP2016
<b>Area</b>	Gulf of Mexico and Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2009

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-extr-1/yr	2009	0.034
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2009	0.056	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	-	-	-	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	-	-	-	-	-
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2009	1.56	-	-
<b>ER/ERmsy</b>	-	-	-	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	-	-	-	-	-
<b>F/Fmgt</b>	-	-	-	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

Dusky shark Gulf of Mexico and Atlantic [DSKSHARGMATL]

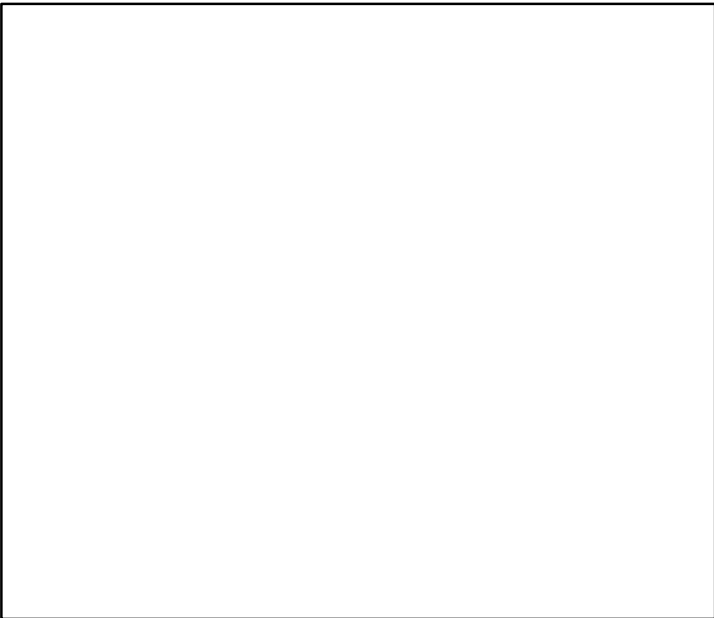
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data



Dusky shark Gulf of Mexico and Atlantic [DSKSHARGMATL]

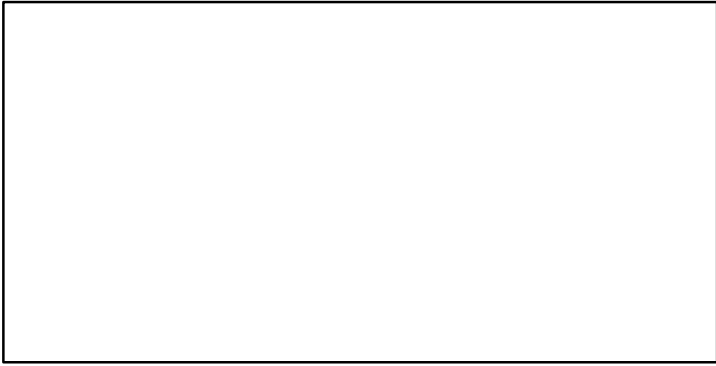
TB\*



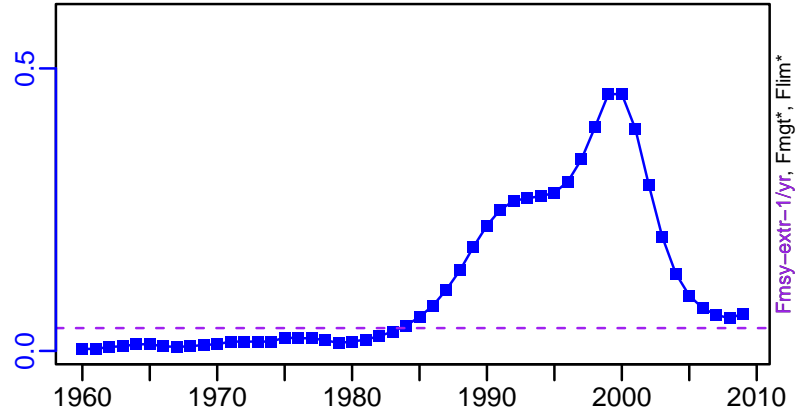
SSB\*



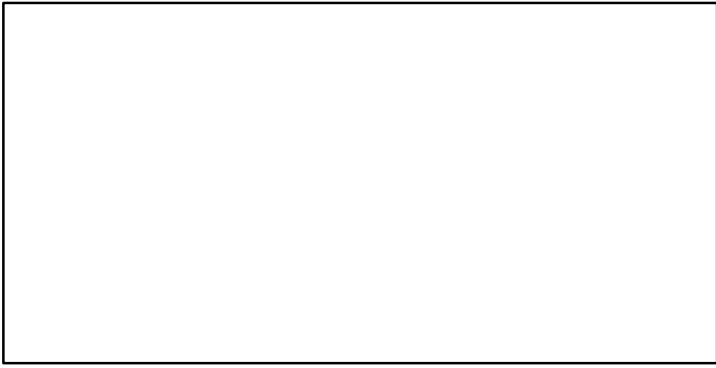
TN \*



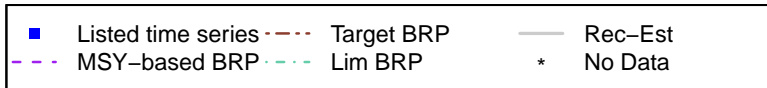
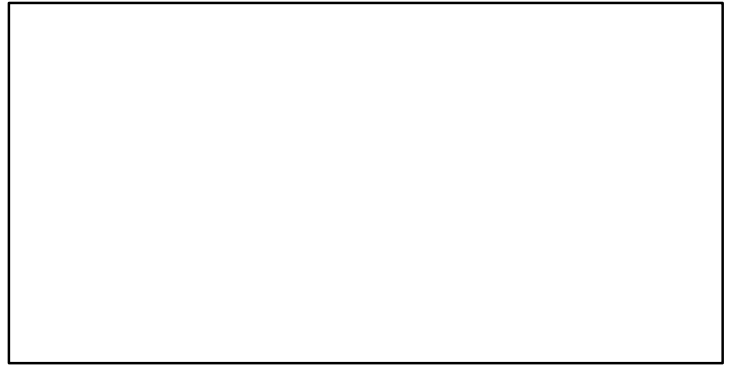
F-1/yr (1960-2009-SISIMP2016)



ER\*



Recruits\*



Dusky shark Gulf of Mexico and Atlantic [DSKSHARGMATL]

**TC\*, TL\*, RecC\***



**TAC\*, Cpair\*, Cadv\***



**survB\***



**CPUE\***



**EFFORT\***



**CdivMSY\***



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

## Finetooth shark Atlantic [FTOOTHSHARATL]

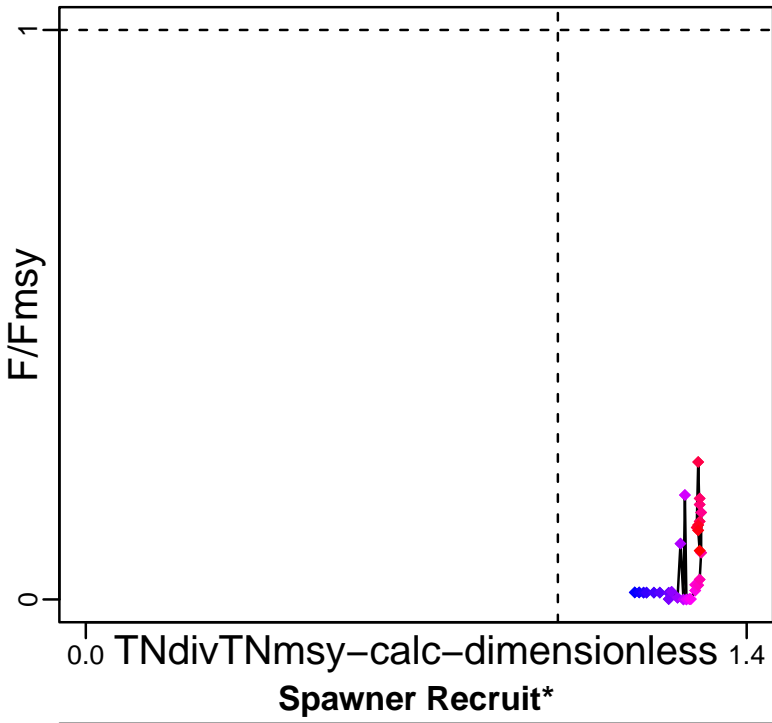
Metadata	
<b>Scientific Name</b>	Carcharhinus isodon
<b>Current Assess ID</b>	SEFSC-FTOOTHSHARATL-1976-2005-FAUCONNET
<b>Area</b>	Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2005

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2005	0.03
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-E00	2005	96,000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

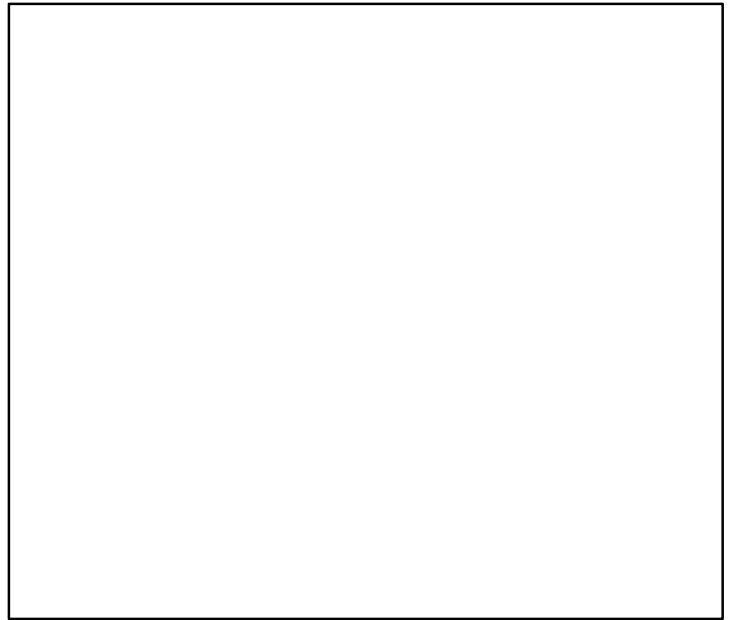
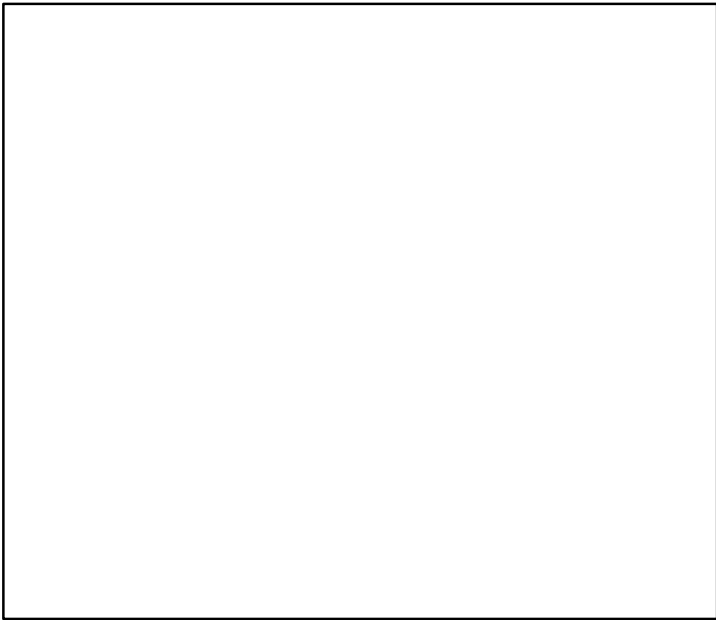
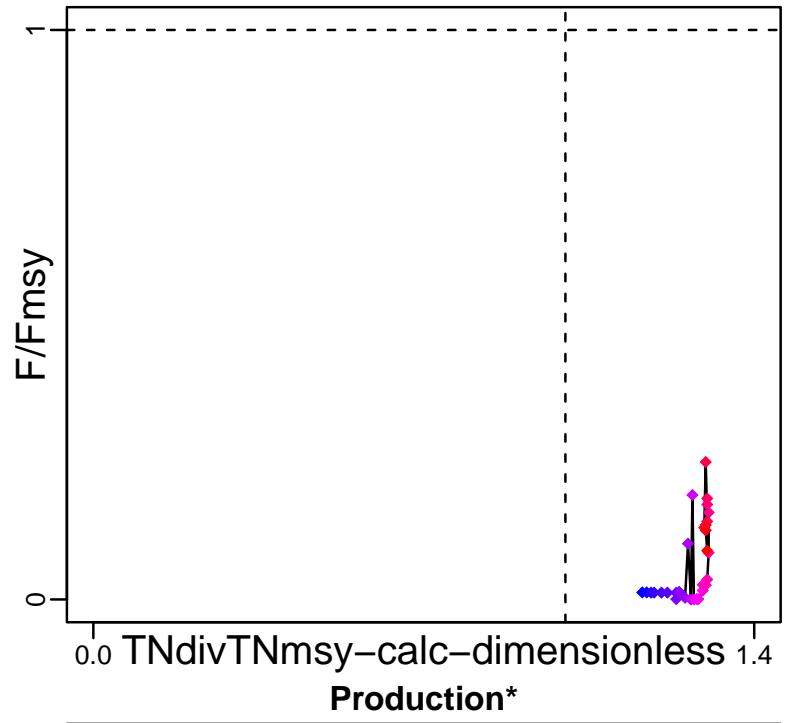
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	TN-E00	2005	4,160,000	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2005	0.003	-	-
<b>ER</b>	ER-calc-ratio	2005	0.003	-	-
<b>TC</b>	TC-E00	2005	10,700		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2005	0.086		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Finetooth shark Atlantic [FTOOTHSHARATL]

Kobe MSYpref (1976–2005–FAUCONNET)



Kobe MGTpref (1976–2005–FAUCONNET)



◆ Start Year ◆ End Year \* No Data

Finetooth shark Atlantic [FTOOTHSHARATL]

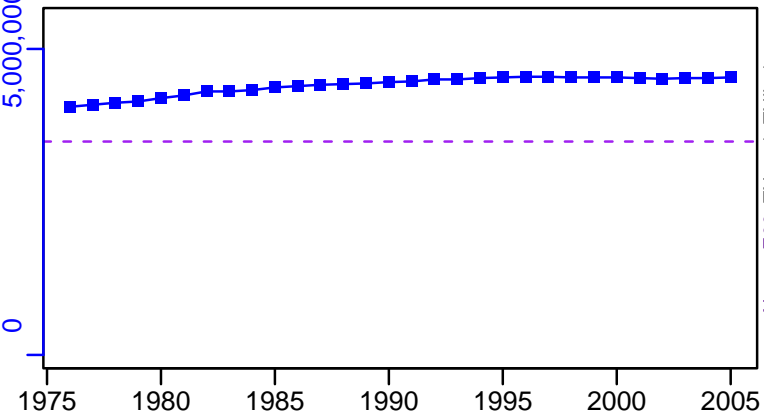
TB\*



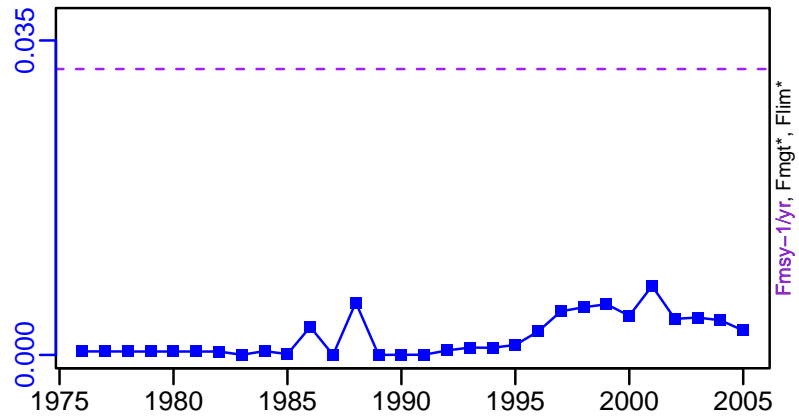
SSB\*



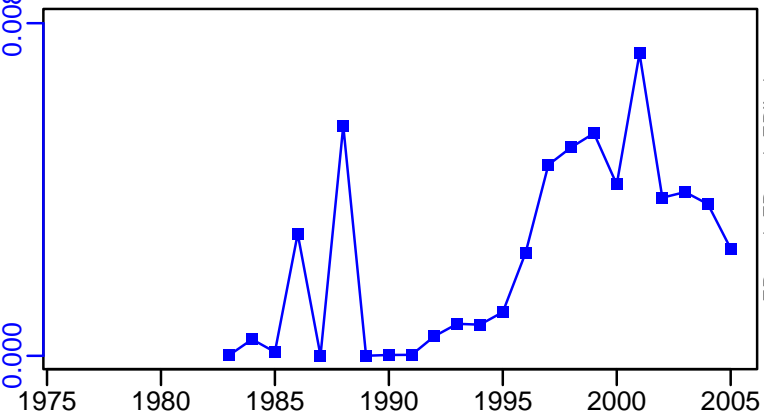
TN-E00 (1976-2005-FAUCONNET)



F-1/yr (1976-2005-FAUCONNET)



ER-calc-ratio (1976-2005-FAUCONNET)



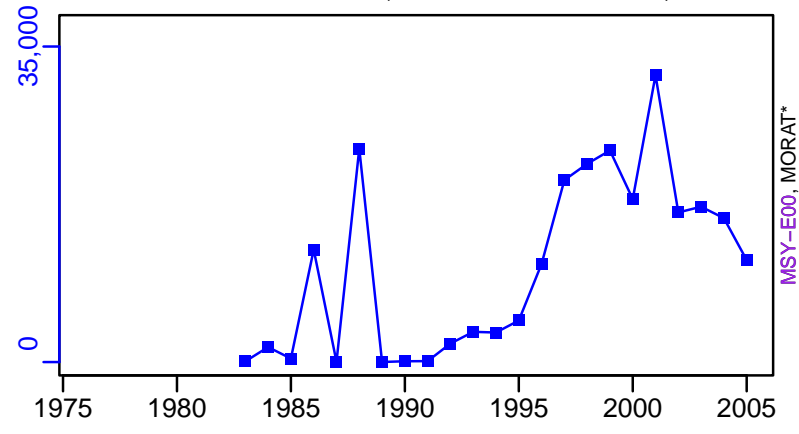
Recruits\*



Finetooth shark Atlantic [FTOOTHSHARATL]

TC-E00, TL\*, RecC\* (1976-2005-FAUCONNET)

TAC\*, Cpair\*, Cadv\*



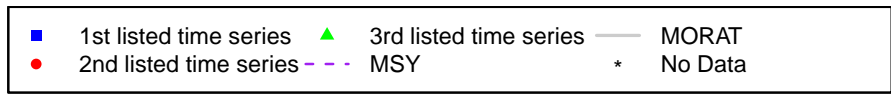
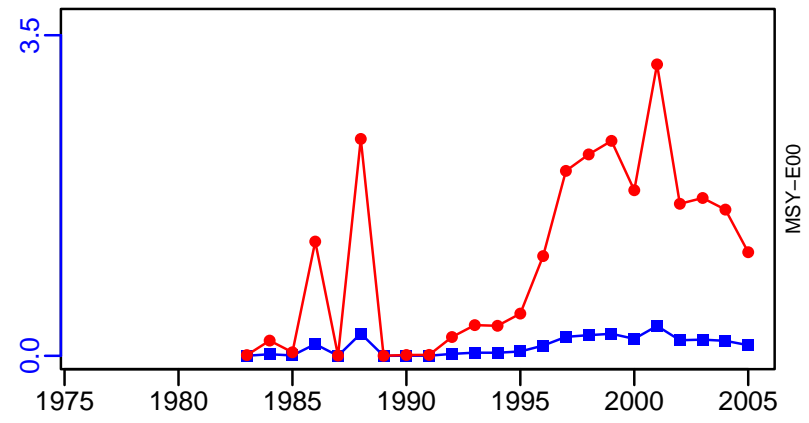
survB\*

CPUE\*



EFFORT\*

TC-E00/MSY-E00, CdivMEANC-ratio, (1976-2005-FAUCONNET)



## Gag Gulf of Mexico [GAGGM]

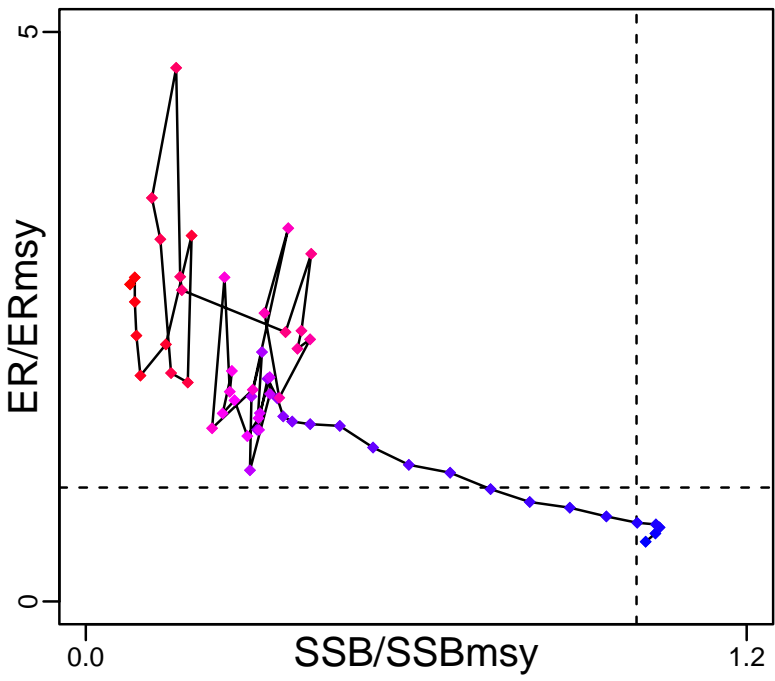
Metadata	
<b>Scientific Name</b>	Mycteroperca microlepis
<b>Current Assess ID</b>	SEFSC-GAGGM-1963-2019-SISIMP2022
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2012,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

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

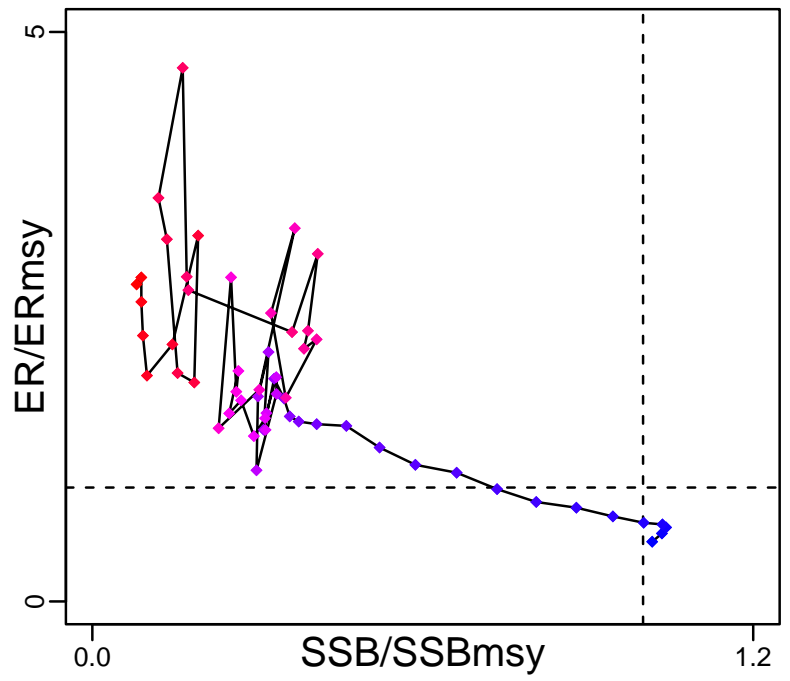
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2019	2295	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	2,805,700	-	0
<b>F</b>	F-1/yr	2012	0.083	-	-
<b>ER</b>	ER-ratio	2019	0.412	-	3
<b>TC</b>	TC-MT	2019	1712		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy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

Gag Gulf of Mexico [GAGGM]

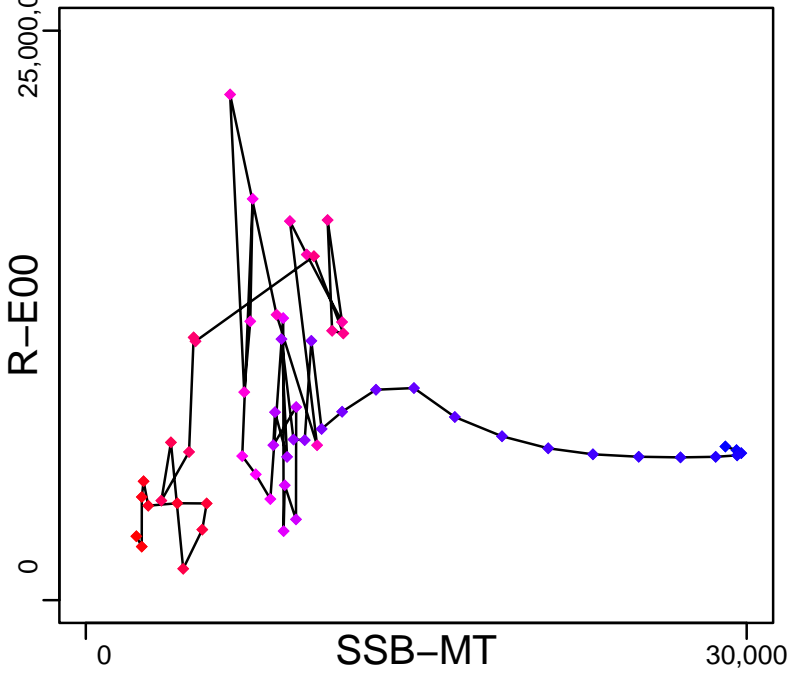
Kobe MSYpref (1963–2019–SISIMP2022)



Kobe MGTpref (1963–2019–SISIMP2022)



Spawner Recruit (1963–2019–SISIMP2022)



Production\*

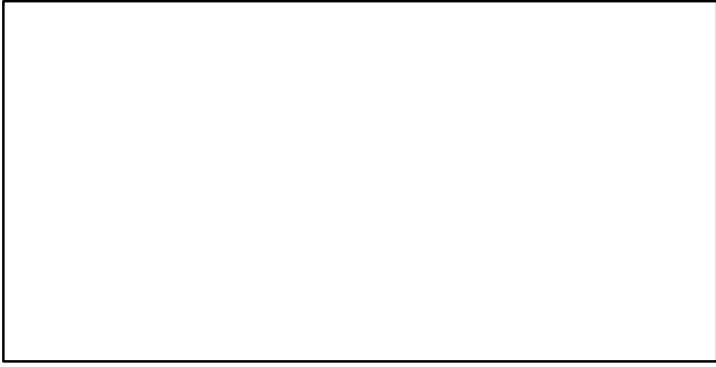


◆ Start Year ◆ End Year \* No Data

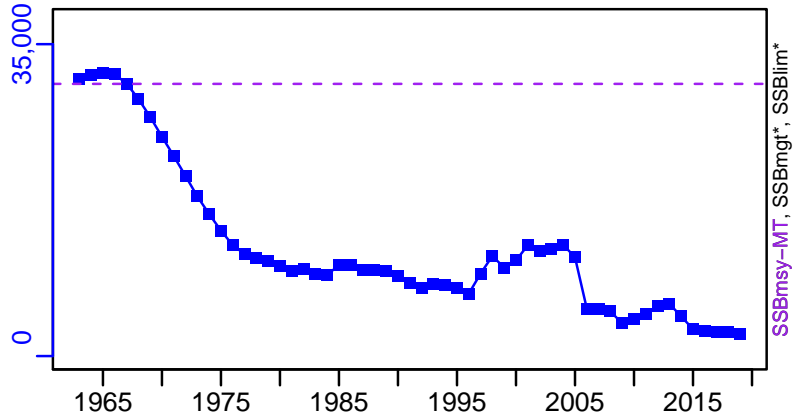


Gag Gulf of Mexico [GAGGM]

TB\*



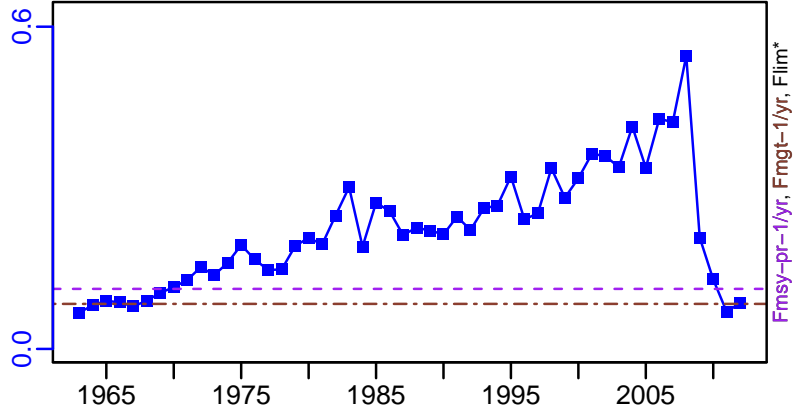
SSB-MT (1963-2019-SISIMP2022)



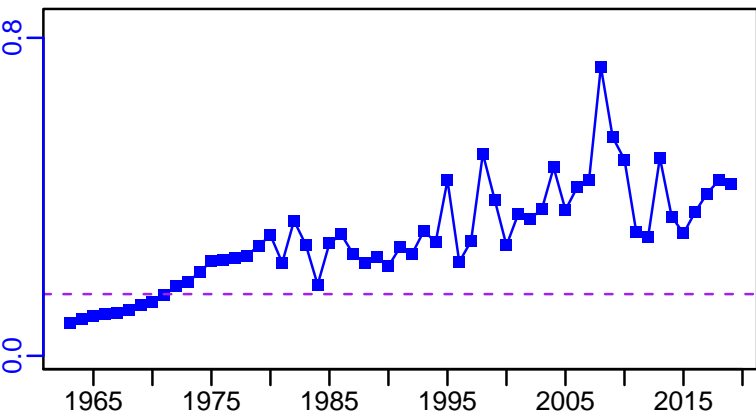
TN \*



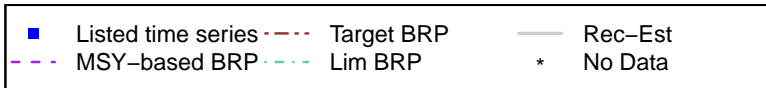
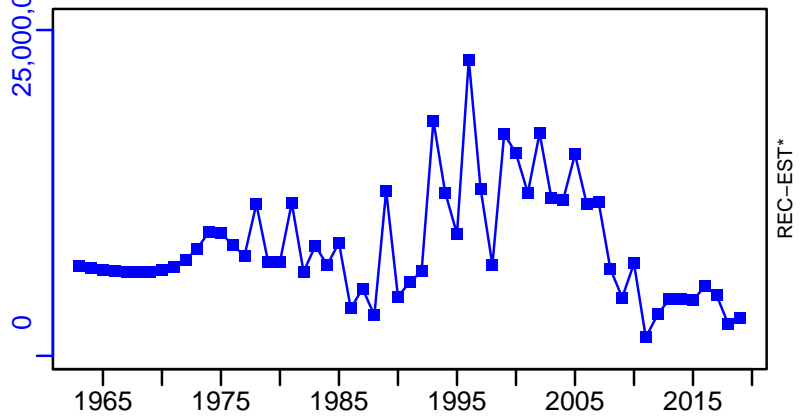
F-1/yr (1963-2012-HIVELY)



ER-ratio (1963-2019-SISIMP2022)

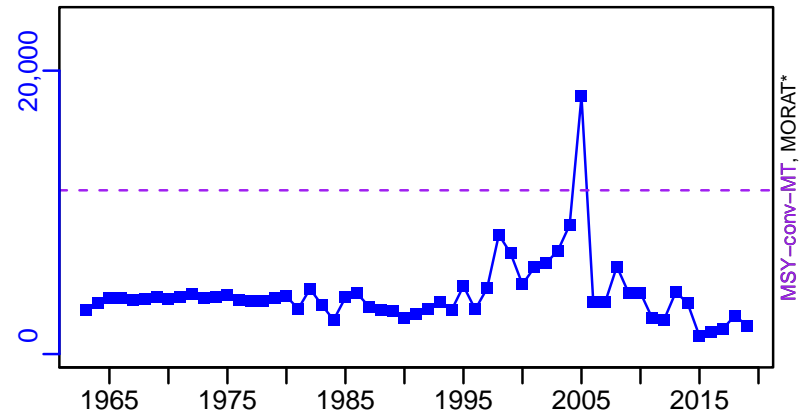


R-E00 (1963-2019-SISIMP2022)

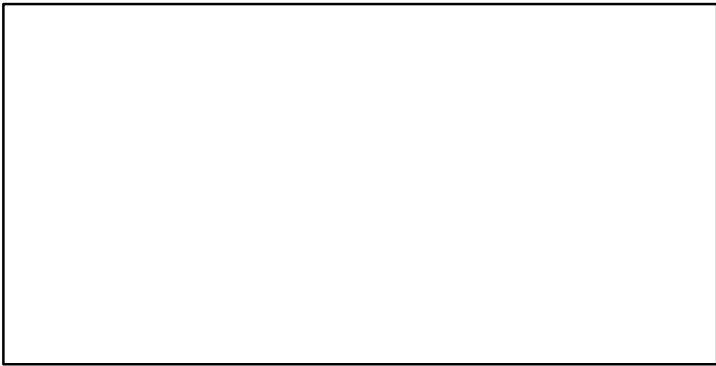


Gag Gulf of Mexico [GAGGM]

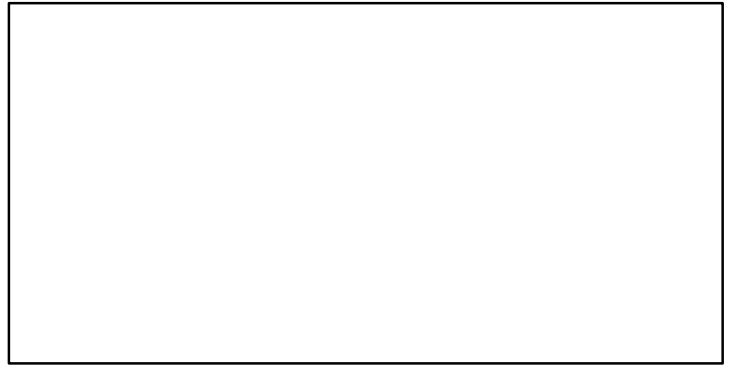
TC-MT, TL\*, RecC\* (1963-2019-SISIMP2022)



survB\*



TAC\*, Cpair\*, Cadv\*



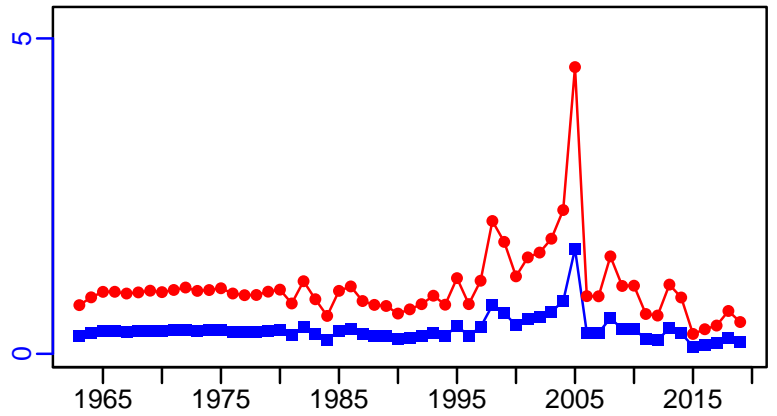
CPUE\*



EFFORT\*



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



## Gag Southern Atlantic coast [GAGSATLC]

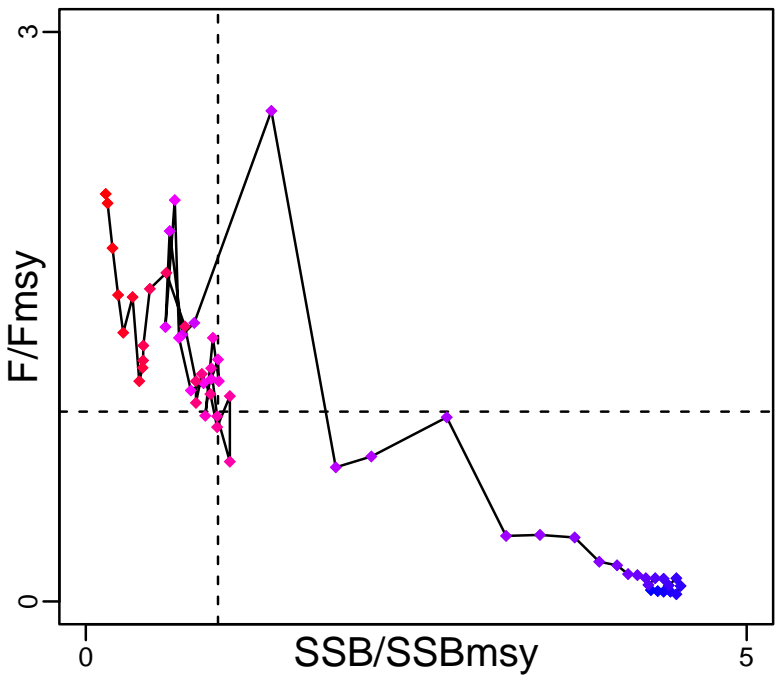
Metadata	
<b>Scientific Name</b>	Mycteroperca microlepis
<b>Current Assess ID</b>	SEFSC-GAGSATLC-1962-2019-SISIMP2021-2
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts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

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

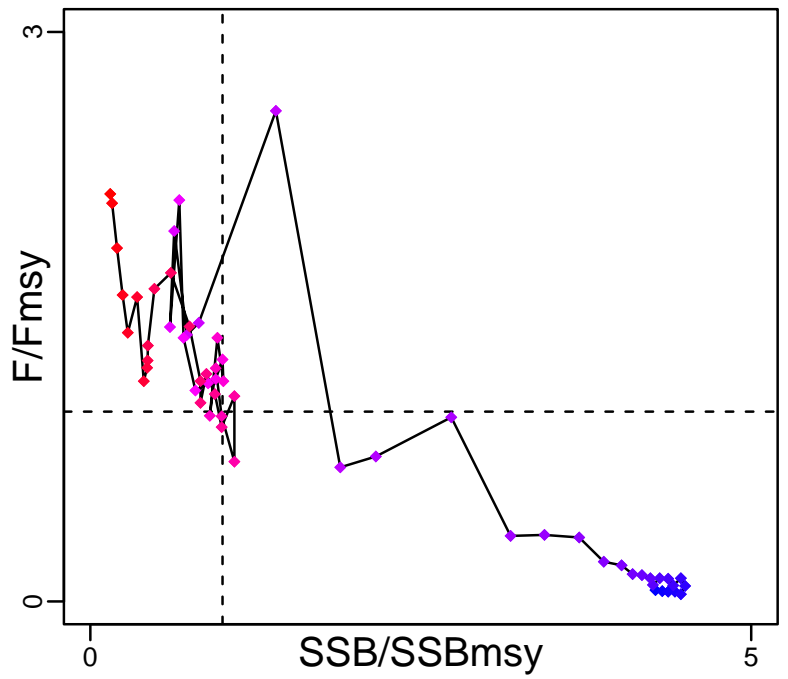
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2012	2620	-	1+
<b>SSB</b>	SSB-MT	2019	235	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	283,000	-	1
<b>F</b>	F-1/yr	2019	0.79	-	-
<b>ER</b>	ER-calc-ratio	2012	0.094	-	-
<b>TC</b>	TC-MT	2019	247		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT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

Gag Southern Atlantic coast [GAGSATLC]

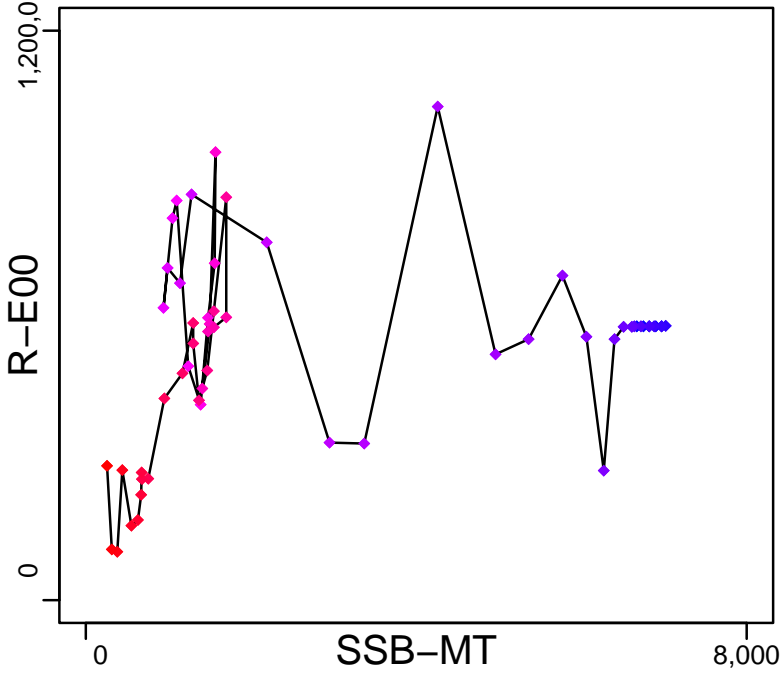
Kobe MSY<sub>pref</sub> (1962–2019–SISIMP2021–2)



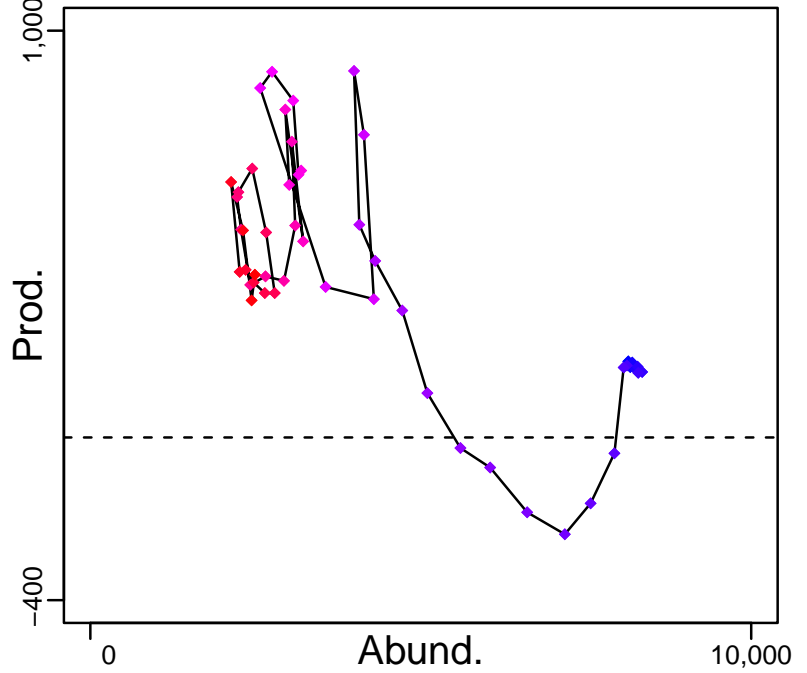
Kobe MGT<sub>pref</sub> (1962–2019–SISIMP2021–2)



Spawner Recruit (1962–2019–SISIMP2021–2)



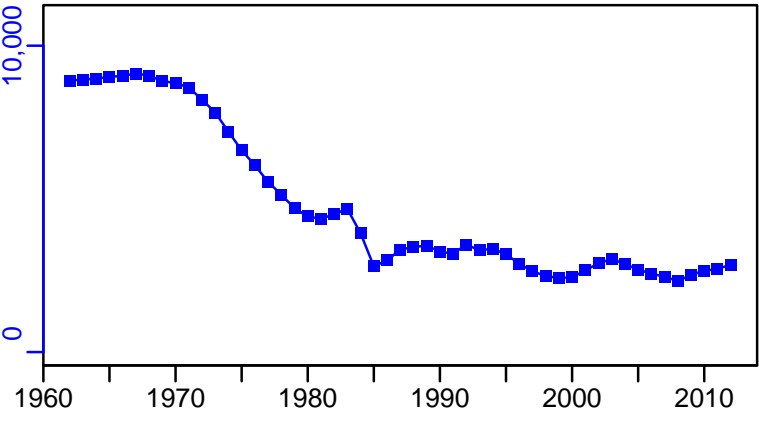
Production (1962–2019–SISIMP2021–2)



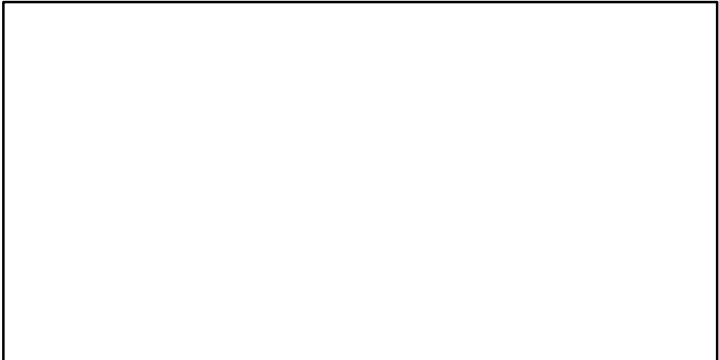
◆ Start Year ◆ End Year \* No Data

Gag Southern Atlantic coast [GAGSATLC]

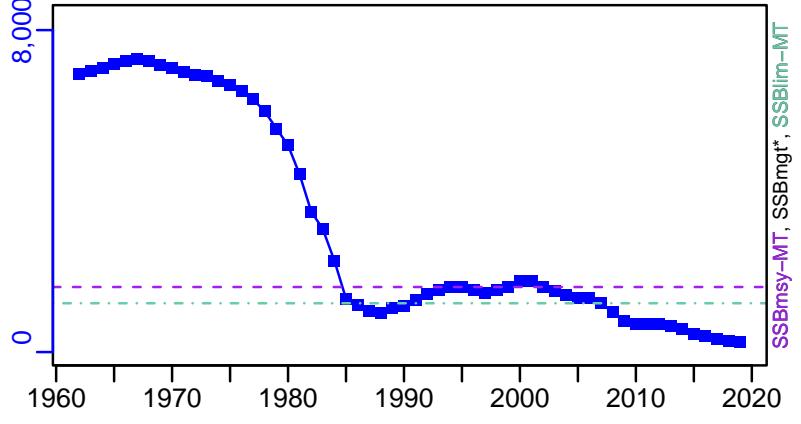
TB-MT (1962-2012-SISIMP2016)



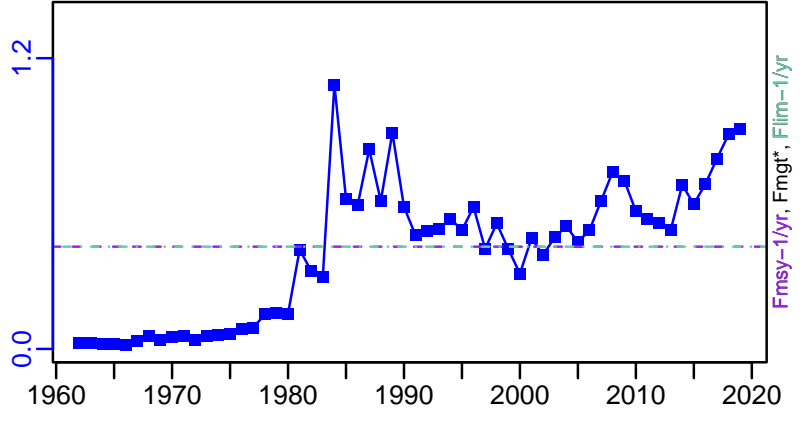
TN \*



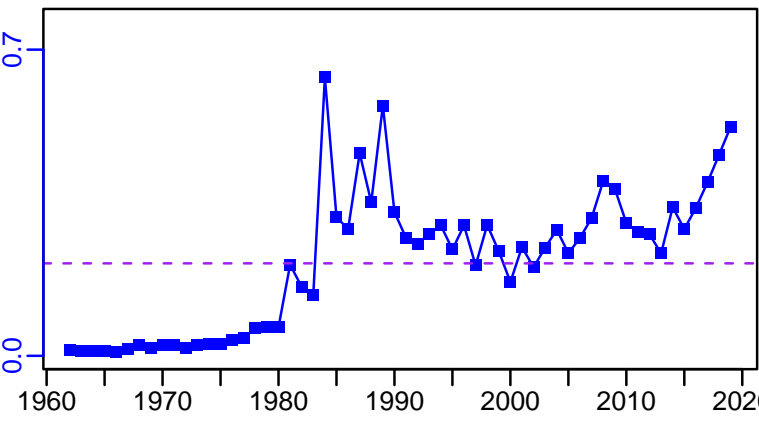
SSB-MT (1962-2019-SISIMP2021-2)



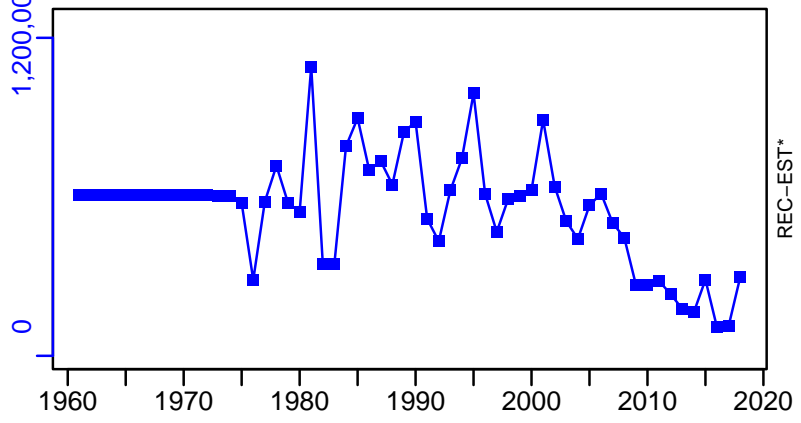
F-1/yr (1962-2019-SISIMP2021-2)



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



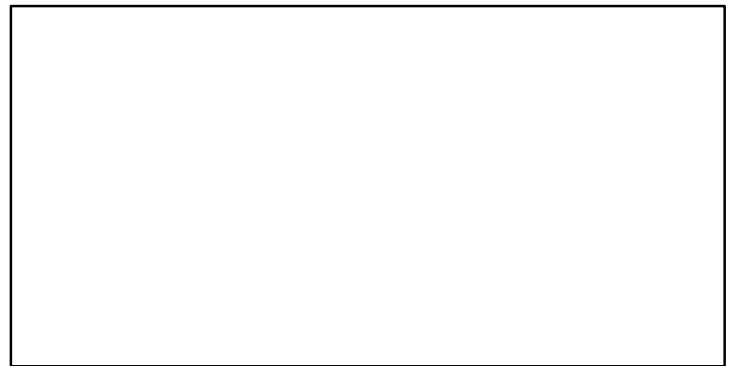
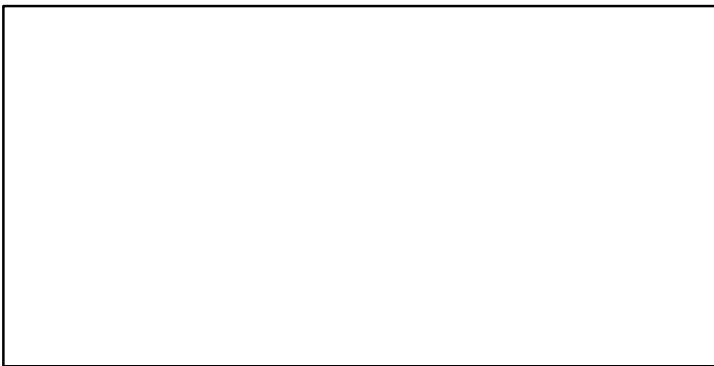
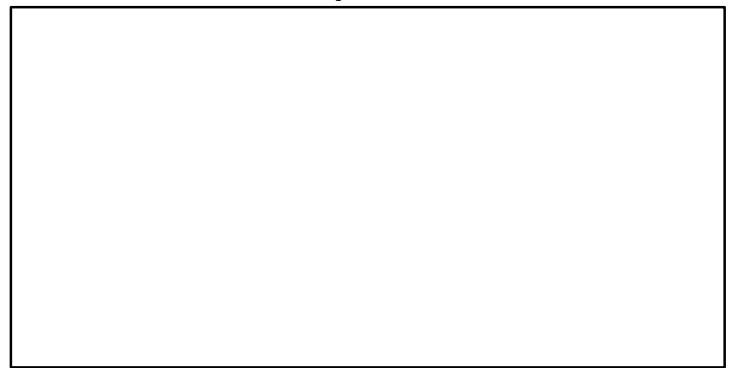
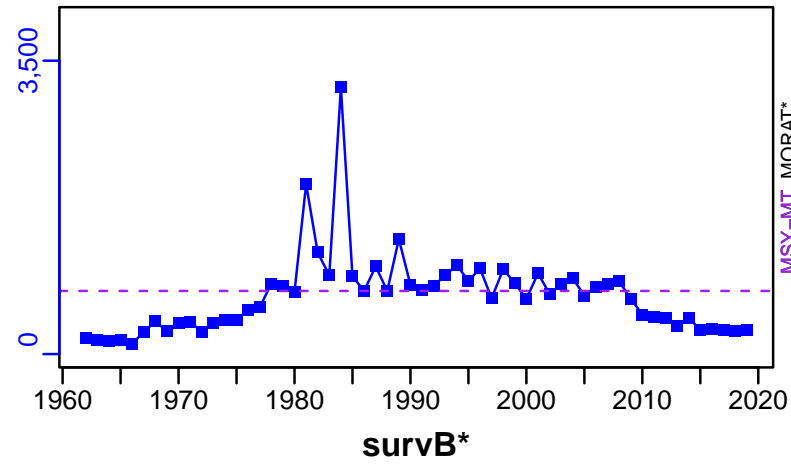
R-E00 (1962-2019-SISIMP2021-2)



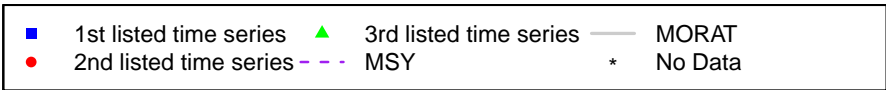
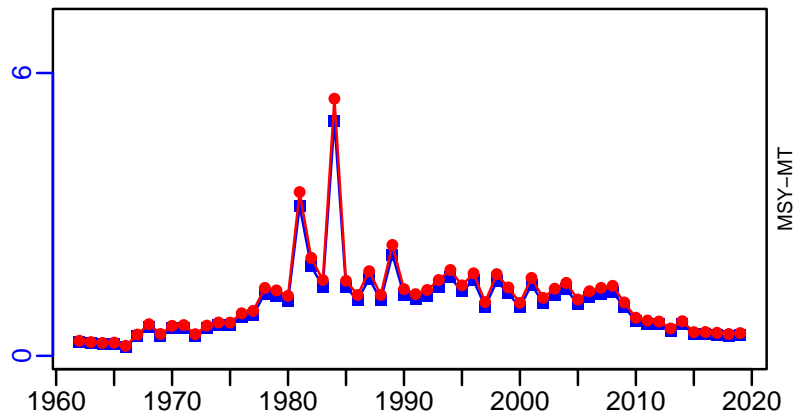
Gag Southern Atlantic coast [GAGSATLC]

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

TAC\*, Cpair\*, Cadv\*



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



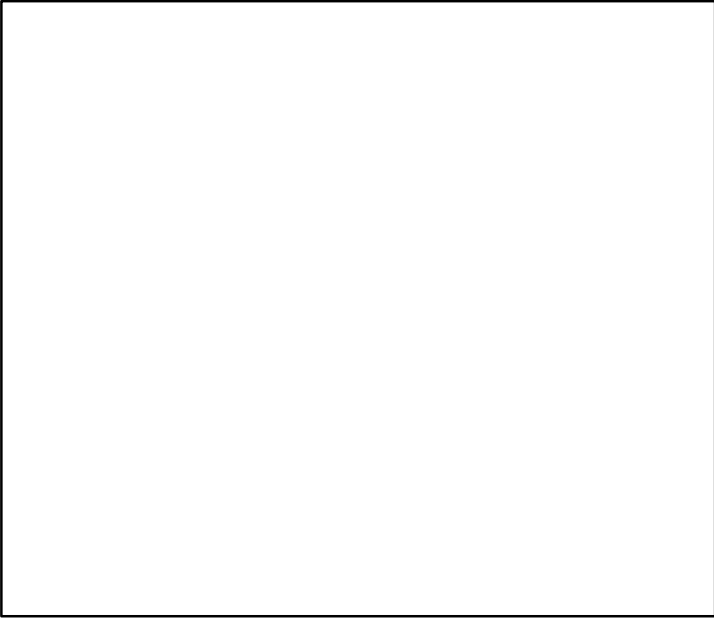
## Goliath grouper Southern Atlantic coast and Gulf of Mexico [GLGROUPSATLCGM]

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

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

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

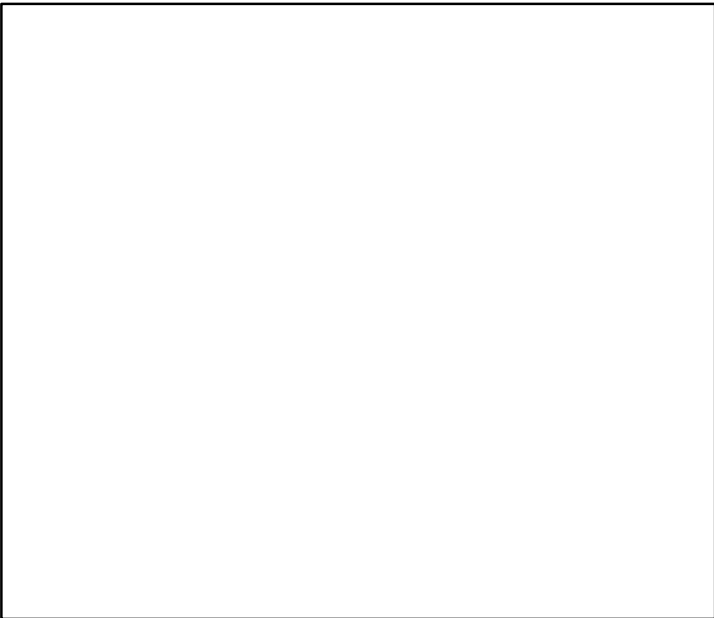
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

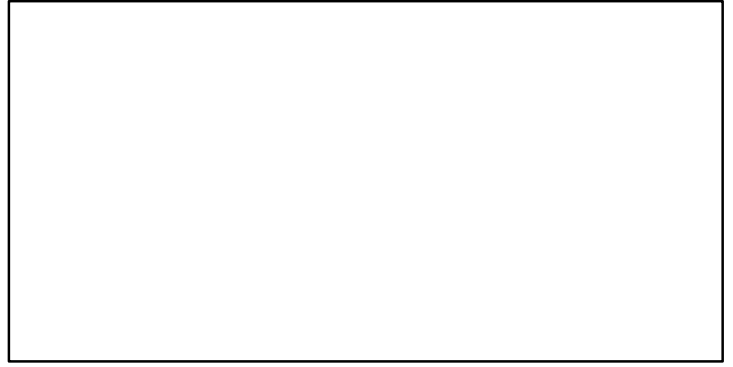


Goliath grouper Southern Atlantic coast and Gulf of Mexico [GLGROUPSATLCGM]

**TB\***



**SSB\***



**TN \***



**F\***



**ER\***



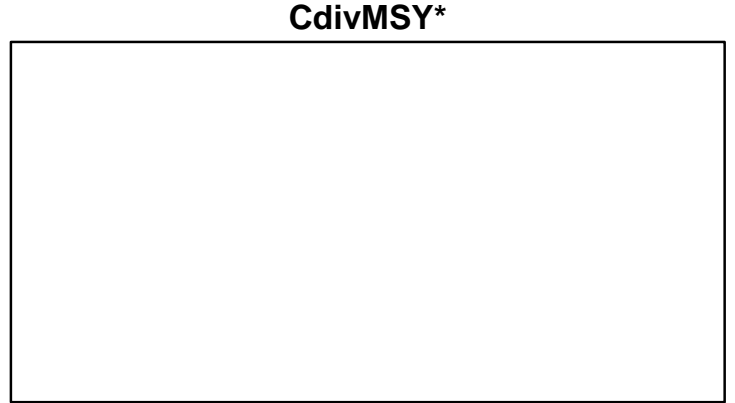
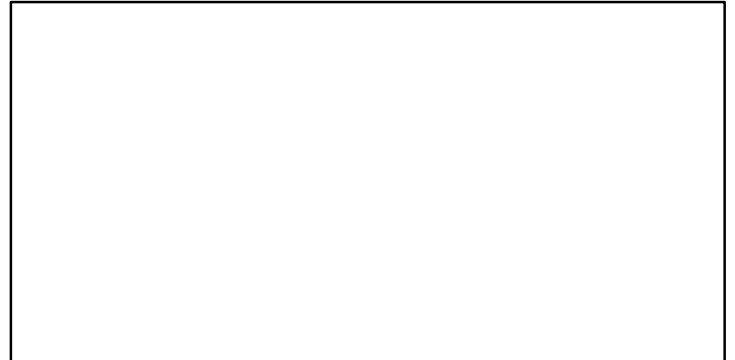
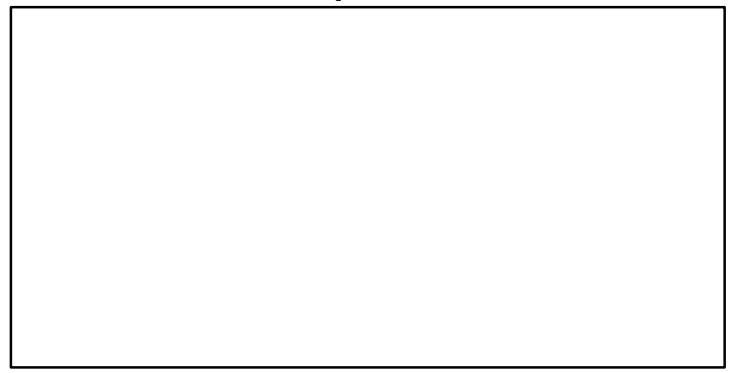
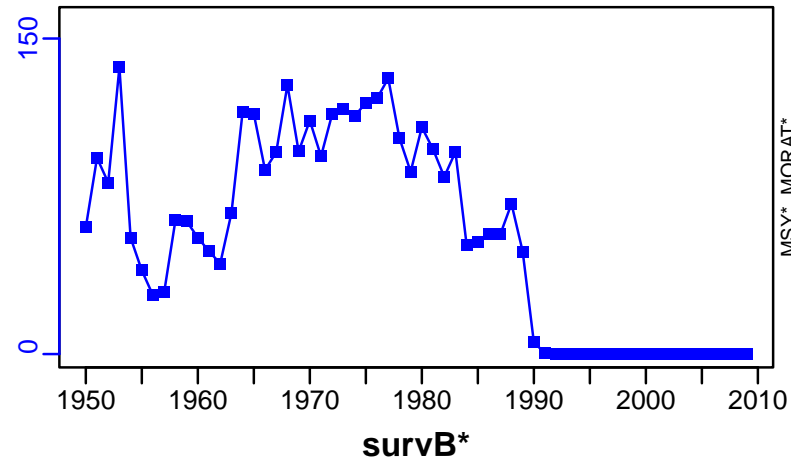
**Recruits\***



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

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

TAC\*, Cpair\*, Cadv\*



## Greater amberjack Gulf of Mexico [GRAMBERGM]

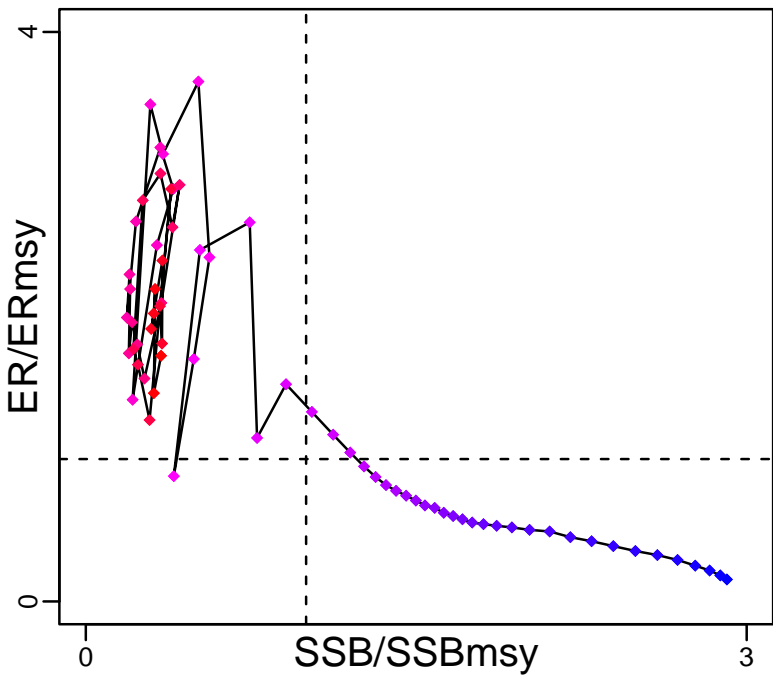
Metadata	
<b>Scientific Name</b>	Seriola dumerili
<b>Current Assess ID</b>	SEFSC-GRAMBERGM-1950-2018-SISIMP2022
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2012, 2015, 2018, 2004

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-calc-MT	2012	7422
<b>SSBmsy</b>	SSBmsy-MT	2018	7119
<b>Fmsy</b>	Fmsy-1/yr	2015	0.2
<b>ERmsy</b>	ERmsy-ratio	2018	0.175
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.17
<b>ERmgt</b>	ERmgt-ratio	2012	0.17
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2012	1633
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2015	4094
<b>Flim</b>	Flim-1/yr	2015	0.2
<b>ERlim</b>	ERlim-ratio	2012	0.22

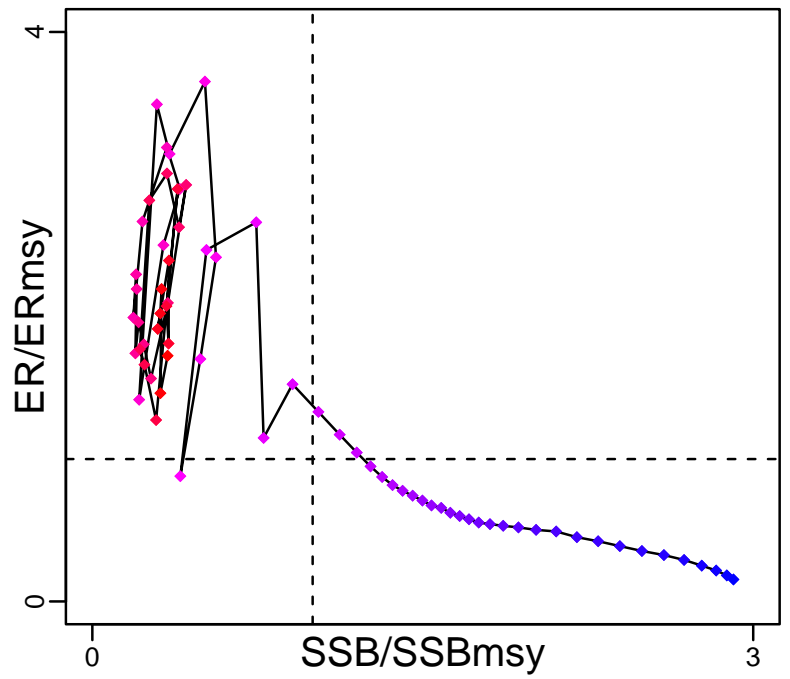
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2012	3860	-	1+
<b>SSB</b>	SSB-MT	2018	2432	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	1,813,000	-	0
<b>F</b>	F-1/yr	2015	0.33	-	-
<b>ER</b>	ER-ratio	2018	0.302	-	1
<b>TC</b>	TC-MT	2012	983		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-calc-MT	2012	0.52		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2018	0.342		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	1.65		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2018	1.726		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	1.941		
<b>ER/ERmgt</b>	-	-	-		

Greater amberjack Gulf of Mexico [GRAMBERGM]

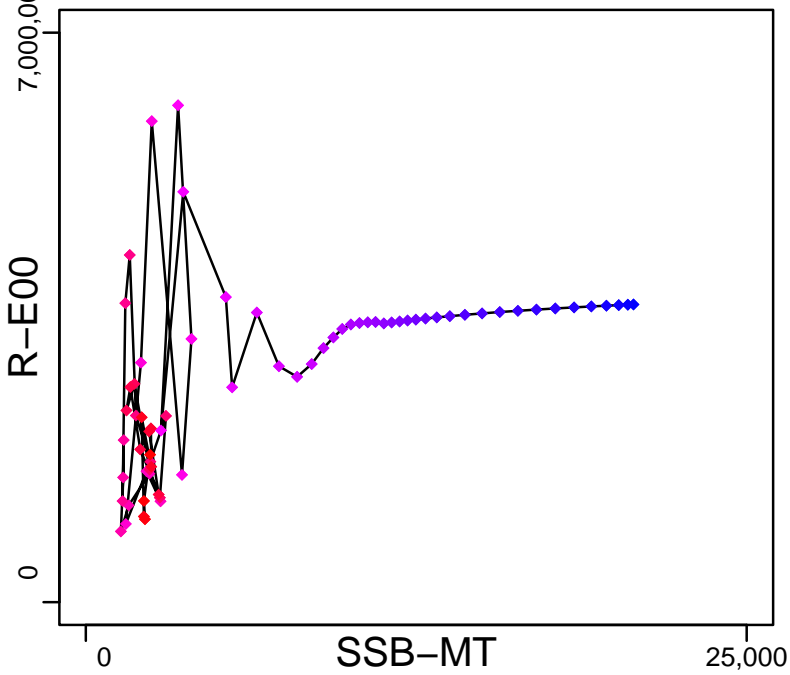
Kobe MSYpref (1950–2018–SISIMP2022)



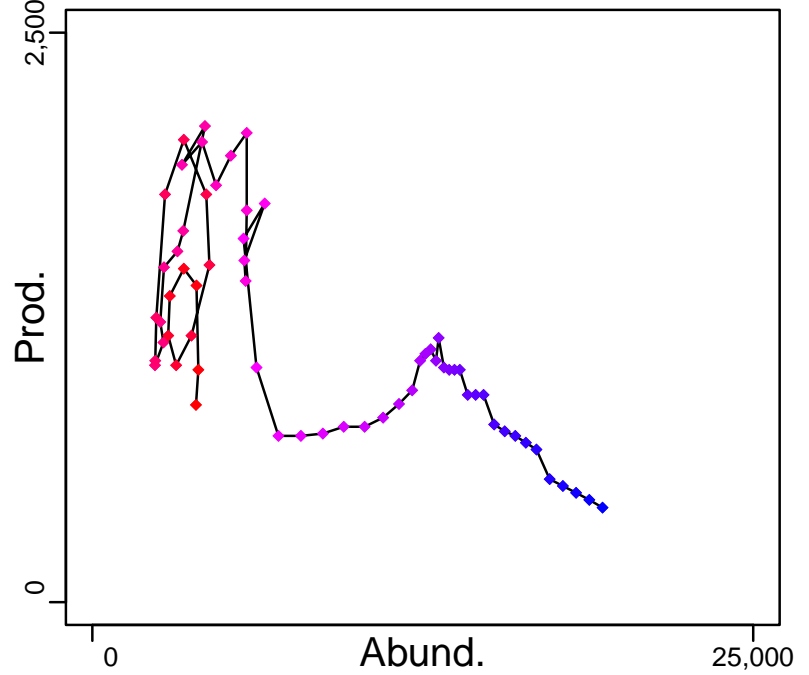
Kobe MGTpref (1950–2018–SISIMP2022)



Spawner Recruit (1950–2018–SISIMP2022)



Production (1950–2012–SISIMP2016)

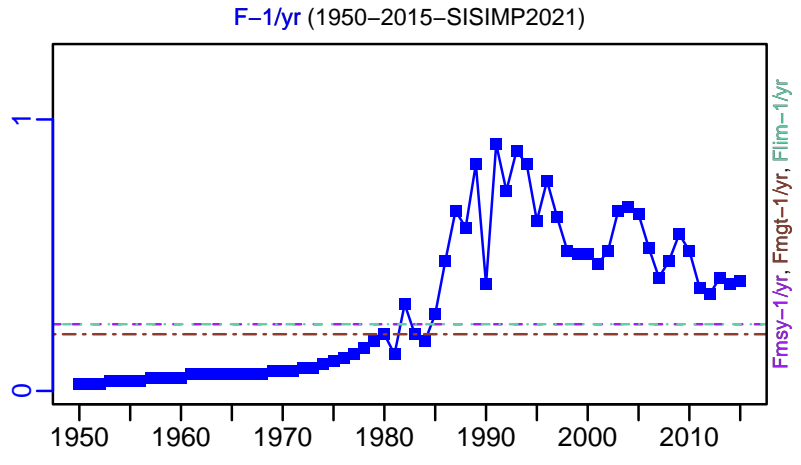
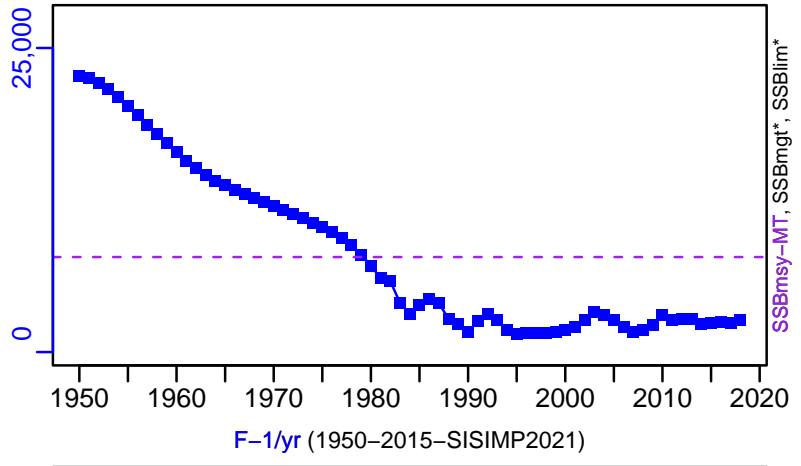
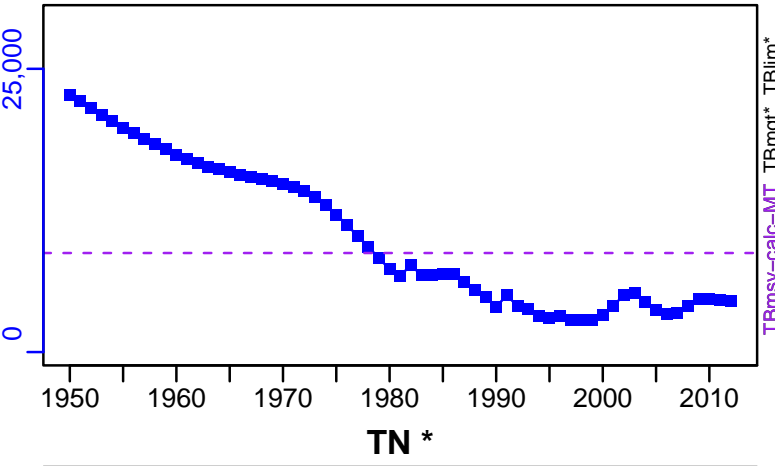


◆ Start Year ◆ End Year \* No Data

Greater amberjack Gulf of Mexico [GRAMBERGM]

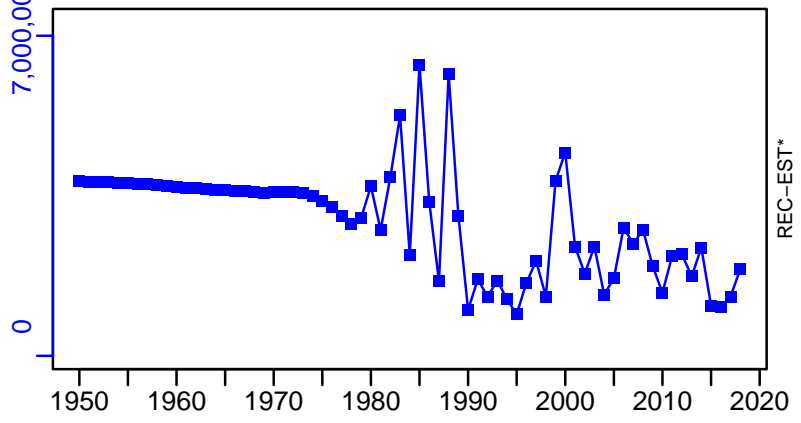
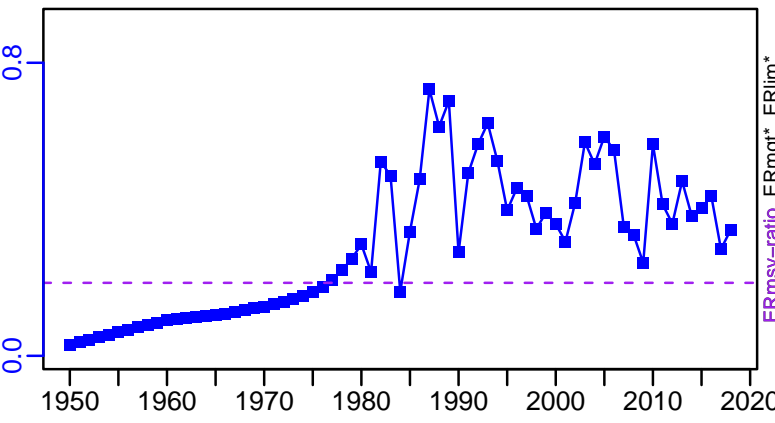
TB-MT (1950-2012-SISIMP2016)

SSB-MT (1950-2018-SISIMP2022)



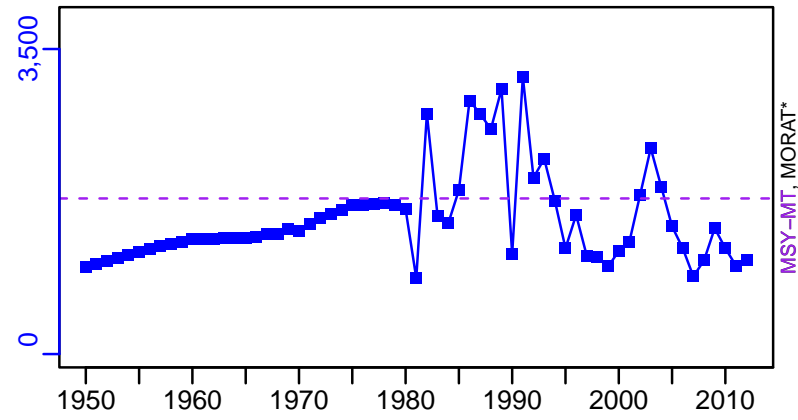
ER-ratio (1950-2018-SISIMP2022)

R-E00 (1950-2018-SISIMP2022)

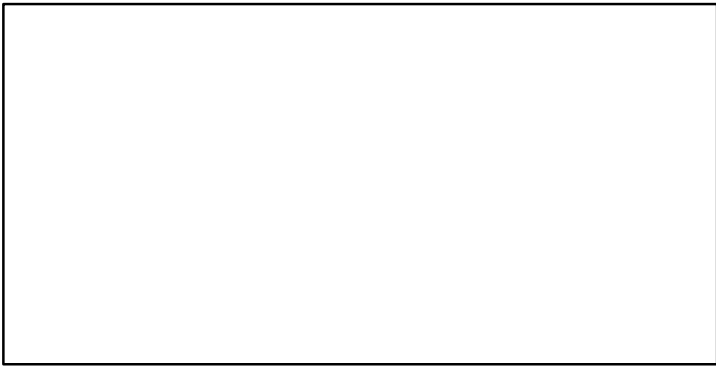


Greater amberjack Gulf of Mexico [GRAMBERGM]

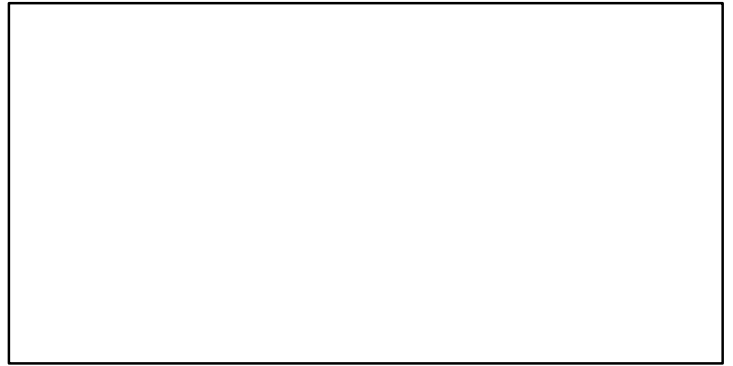
TC-MT, TL\*, RecC\* (1950-2012-SISIMP2016)



survB\*



TAC\*, Cpair\*, Cadv\*



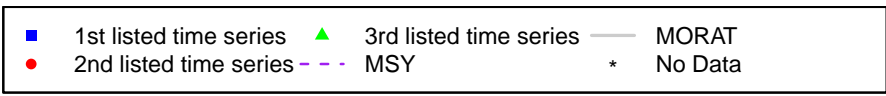
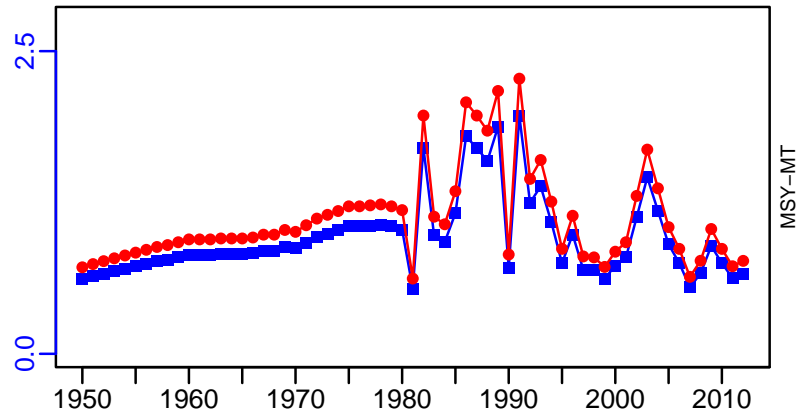
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950-2012-SISIMP2016)



## Greater amberjack Southern Atlantic coast [GRAMBERSATLC]

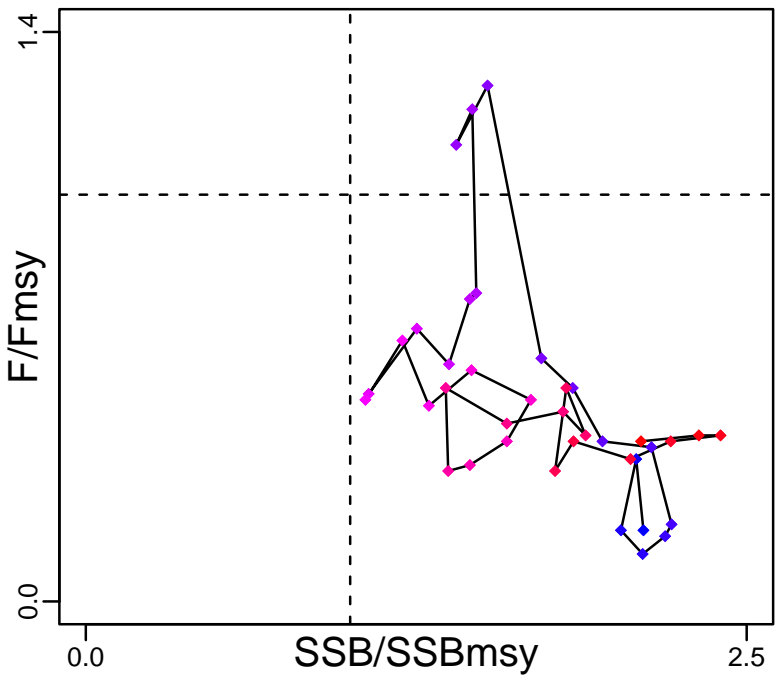
Metadata	
<b>Scientific Name</b>	Seriola dumerili
<b>Current Assess ID</b>	SEFSC-GRAMBERSATLC-1980-2017-SISIMP2021-2
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2006, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2006	5491
<b>SSBmsy</b>	SSBmsy-MT	2017	3290
<b>Fmsy</b>	Fmsy-1/yr	2017	0.686
<b>ERmsy</b>	ERmsy-ratio	2006	0.166
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2017	1492
<b>M</b>	M-1/yr	2006	0.25
<b>TBlim</b>	TBlim-MT	2006	1455
<b>SSBlim</b>	SSBlim-MT	2017	2470
<b>Flim</b>	Flim-1/yr	2017	0.686
<b>ERlim</b>	-	-	-

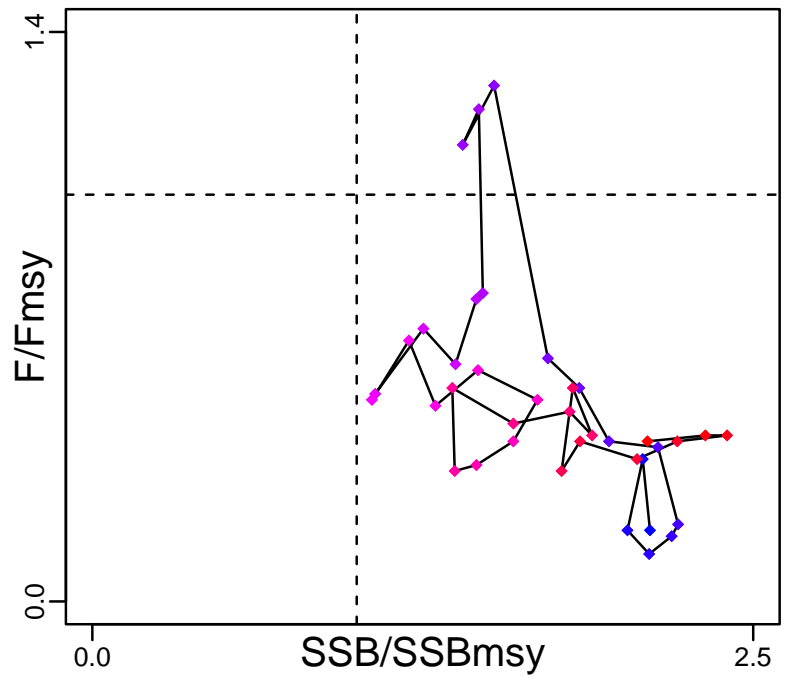
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2006	5620	-	-
<b>SSB</b>	SSB-MT	2017	6910	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	1,140,000	-	1
<b>F</b>	F-1/yr	2017	0.27	-	-
<b>ER</b>	ER-calc-ratio	2006	0.049	-	-
<b>TC</b>	TC-MT	2017	1120		
<b>TL</b>	TL-MT	2006	278		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2006	1.023		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2017	2.1		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	0.394		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-ratio	2006	0.299		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Greater amberjack Southern Atlantic coast [GRAMBERSATLC]

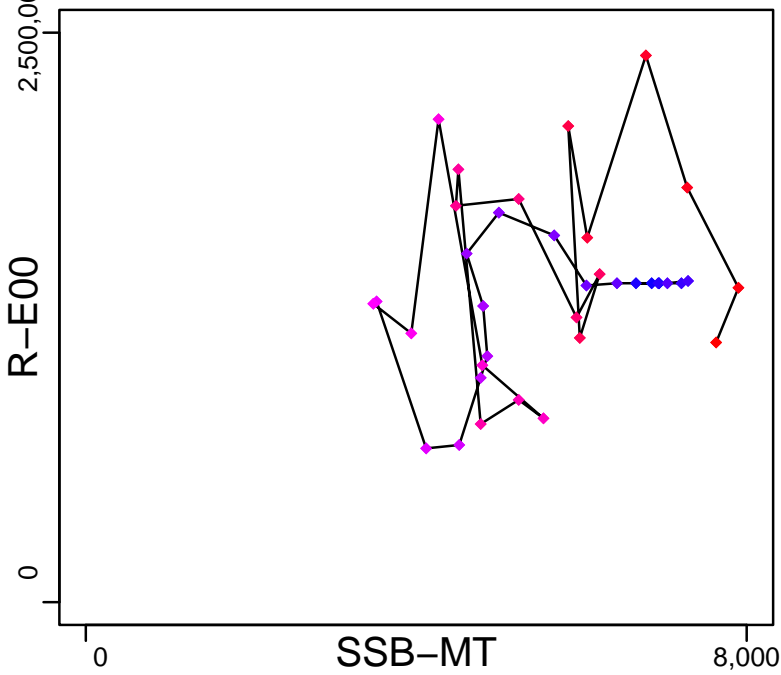
Kobe MSYpref (1980–2017–SISIMP2021–2)



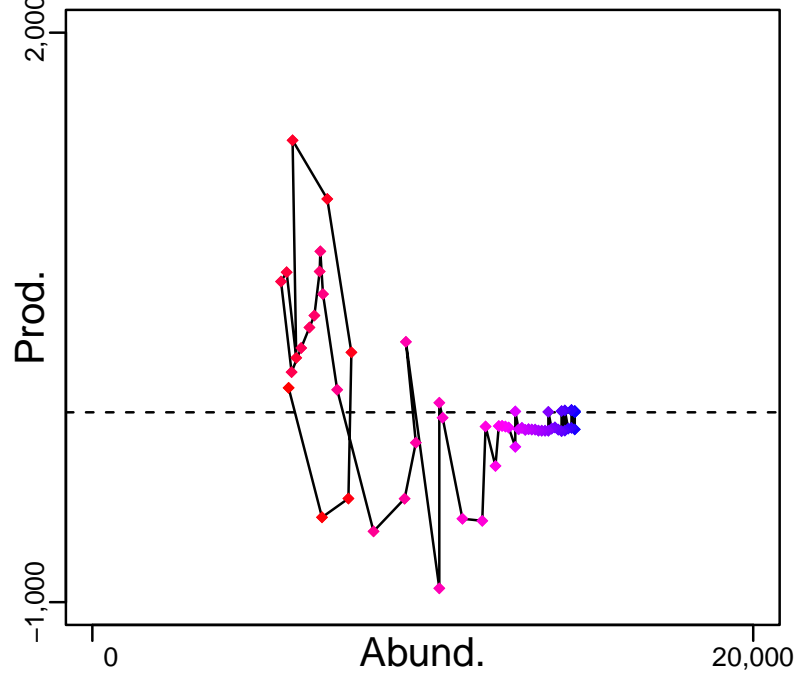
Kobe MGTpref (1980–2017–SISIMP2021–2)



Spawner Recruit (1980–2017–SISIMP2021–2)



Production (1980–2017–SISIMP2021–2)



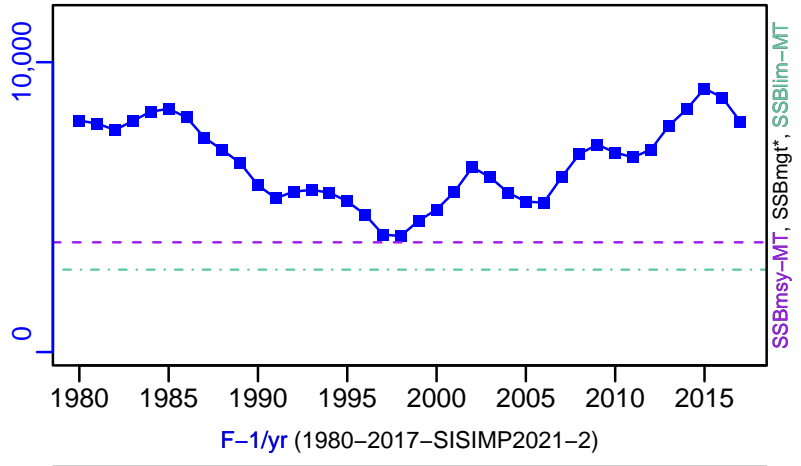
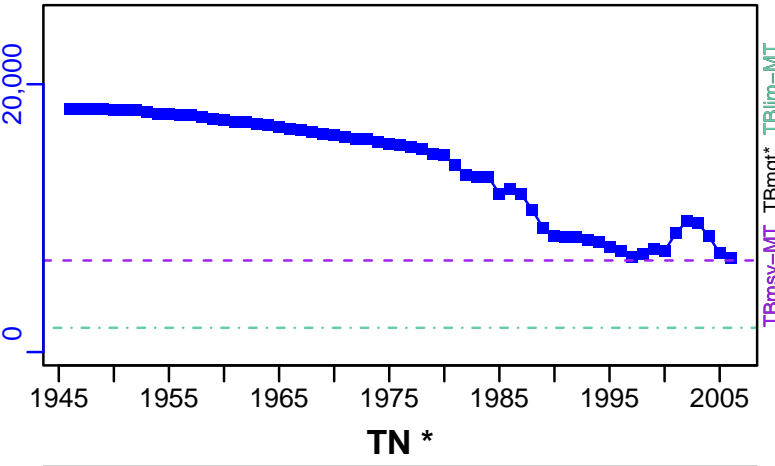
◆ Start Year ◆ End Year \* No Data



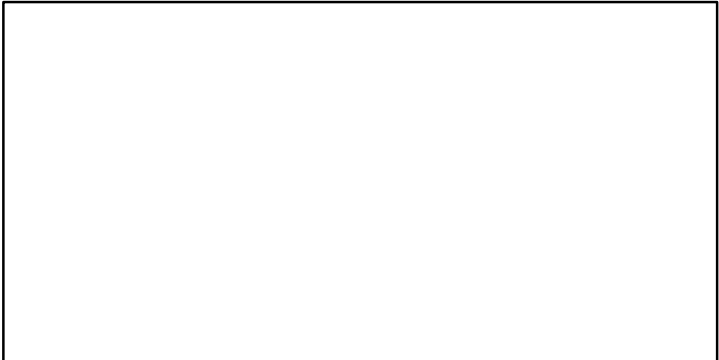
Greater amberjack Southern Atlantic coast [GRAMBERSATLC]

TB-MT (1946-2006-JENSEN)

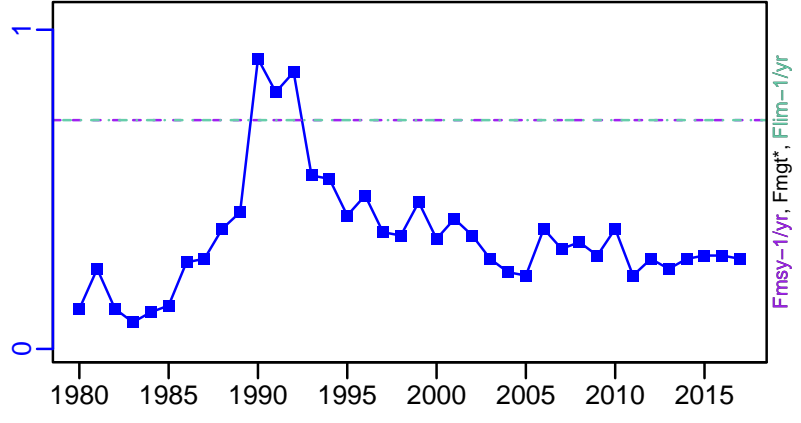
SSB-MT (1980-2017-SISIMP2021-2)



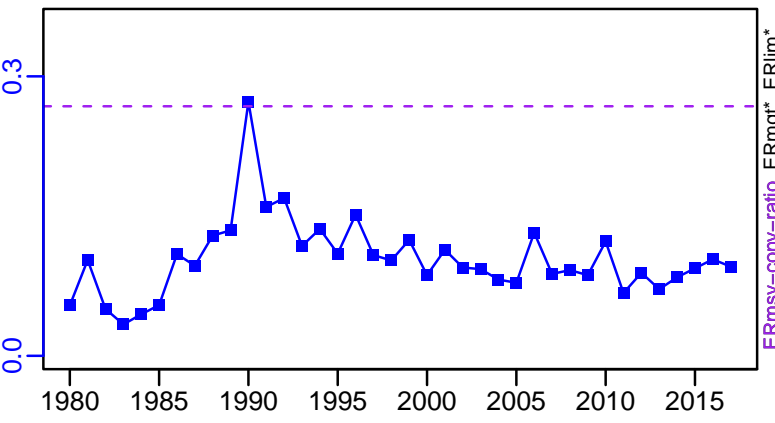
TN \*



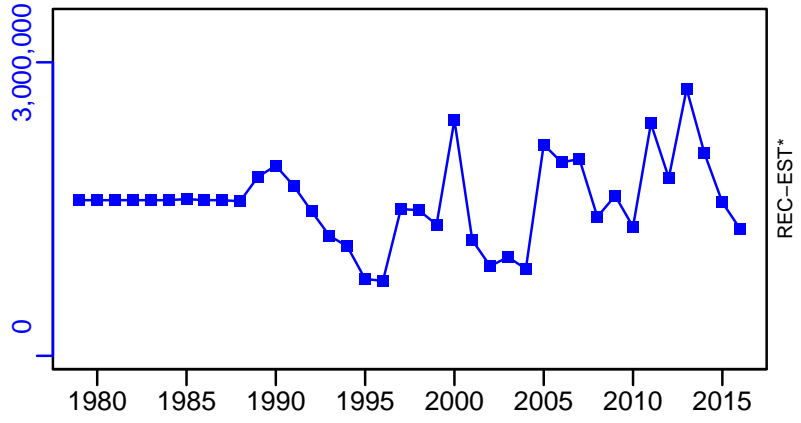
F-1/yr (1980-2017-SISIMP2021-2)



ER-calc-ratio (1980-2017-SISIMP2021-2)



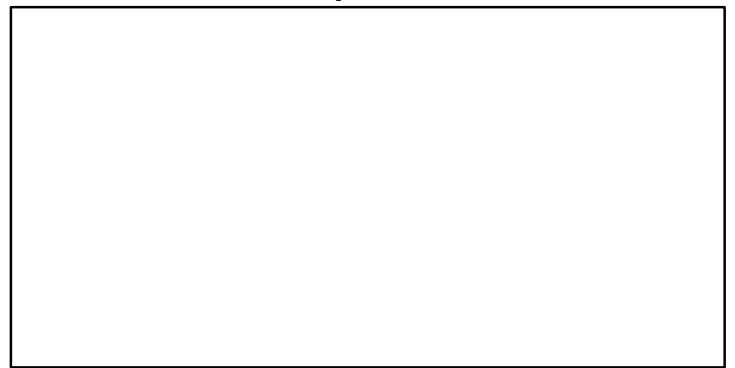
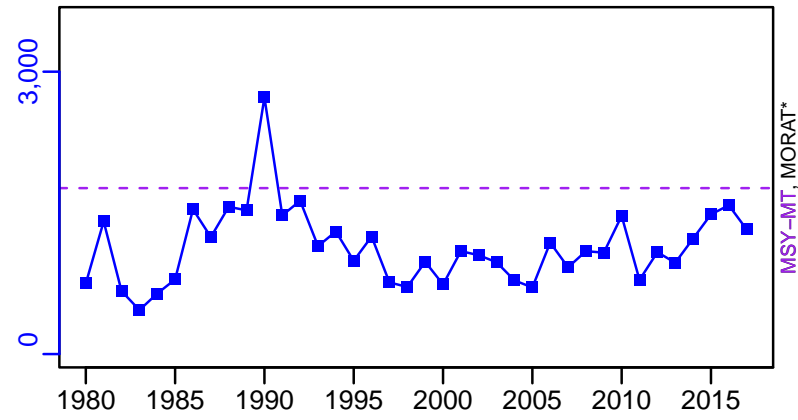
R-E00 (1980-2017-SISIMP2021-2)



Greater amberjack Southern Atlantic coast [GRAMBERSATLC]

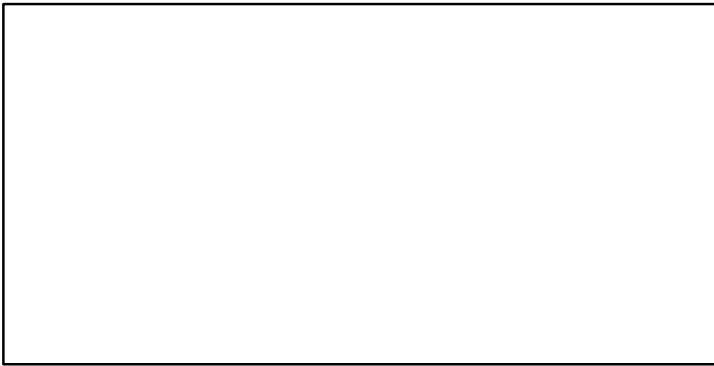
TC-MT, TL\*, RecC\* (1980-2017-SISIMP2021-2)

TAC\*, Cpair\*, Cadv\*



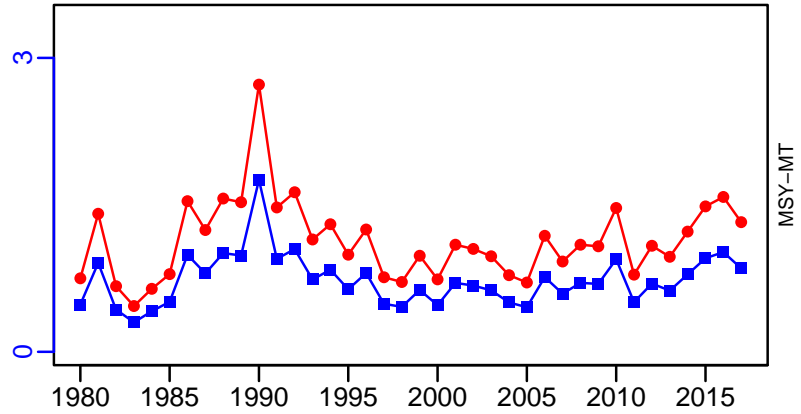
survB\*

CPUE\*



EFFORT\*

TC-MT/MSY-MT, CdivMEANC-ratio, (1980-2017-SISIMP2021-2)



## Gray snapper Gulf of Mexico [GRSNAPGM]

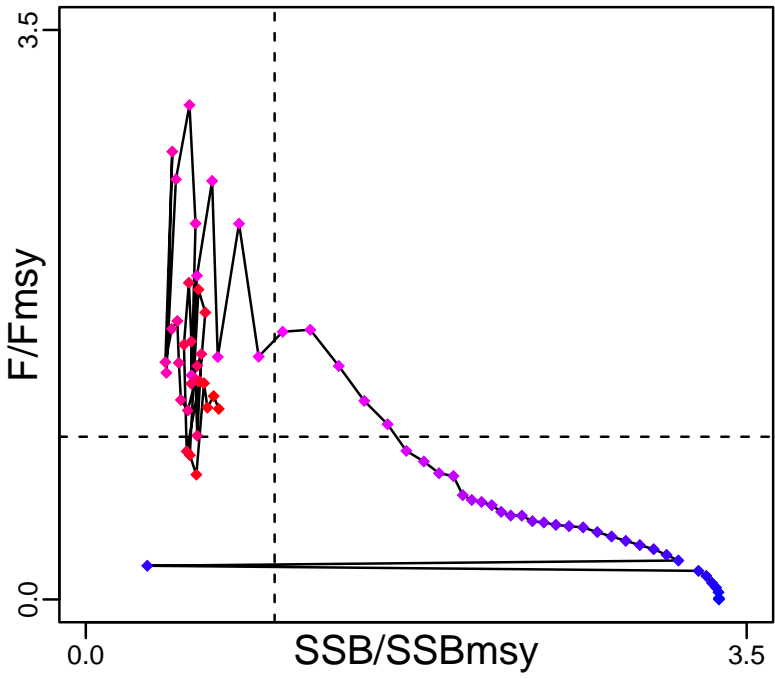
Metadata	
<b>Scientific Name</b>	Lutjanus griseus
<b>Current Assess ID</b>	SEFSC-GRSNAPGM-1945-2015-SISIMP2021
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2015

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

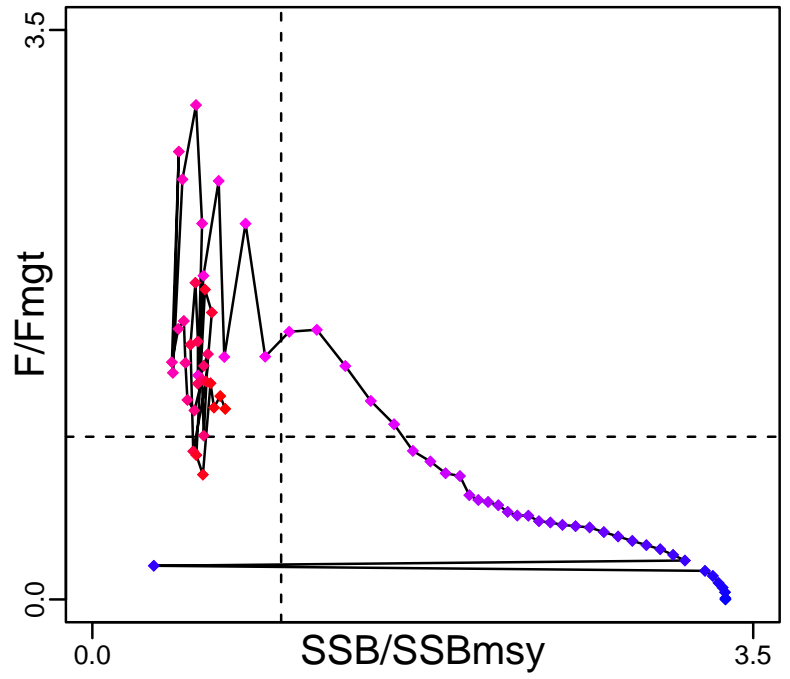
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2015	4660	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	10,223,200	-	0
<b>F</b>	F-1/yr	2015	0.135	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2015	882		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT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

Gray snapper Gulf of Mexico [GRSNAPGM]

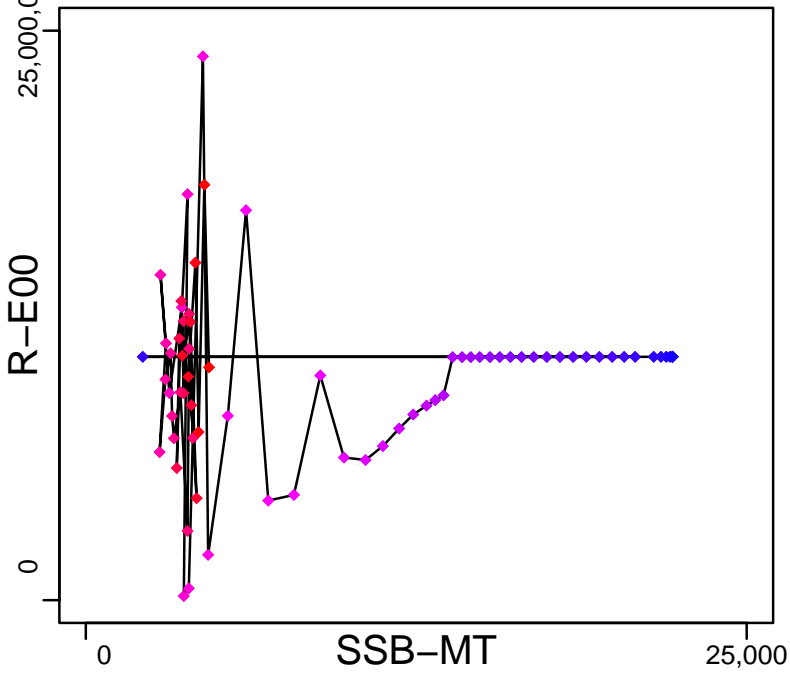
Kobe MSYpref (1945–2015–SISIMP2021)



Kobe MGTpref (1945–2015–SISIMP2021)



Spawner Recruit (1945–2015–SISIMP2021)



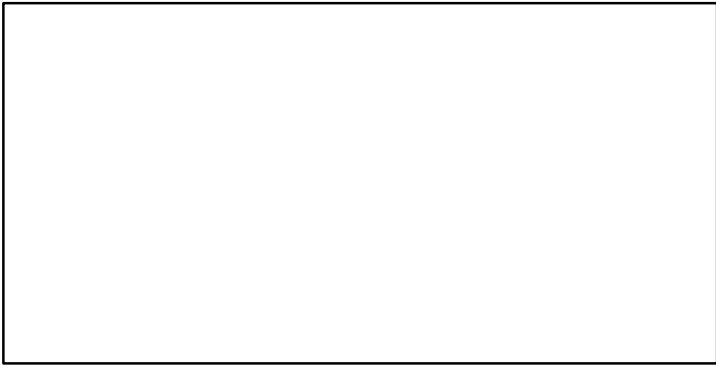
Production\*



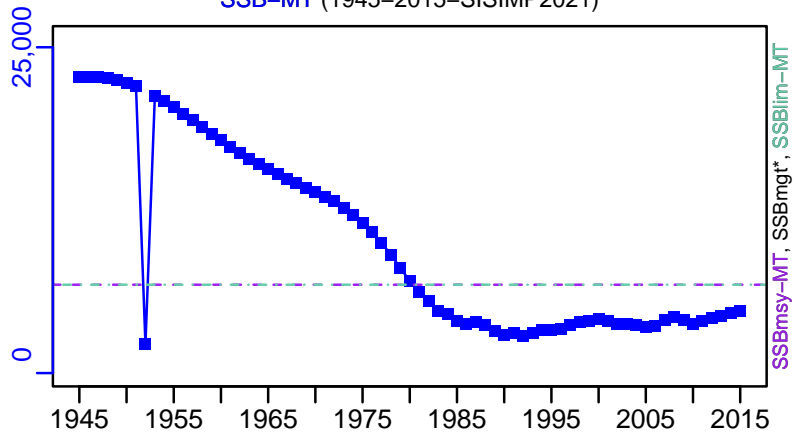
◆ Start Year ◆ End Year \* No Data

Gray snapper Gulf of Mexico [GRSNAPGM]

TB\*



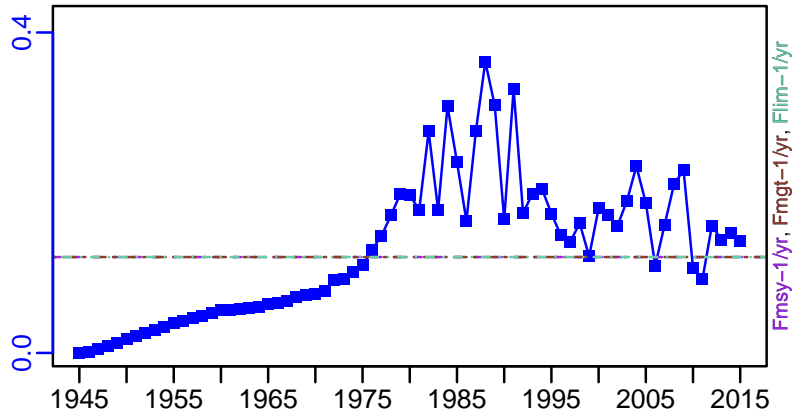
SSB-MT (1945-2015-SISIMP2021)



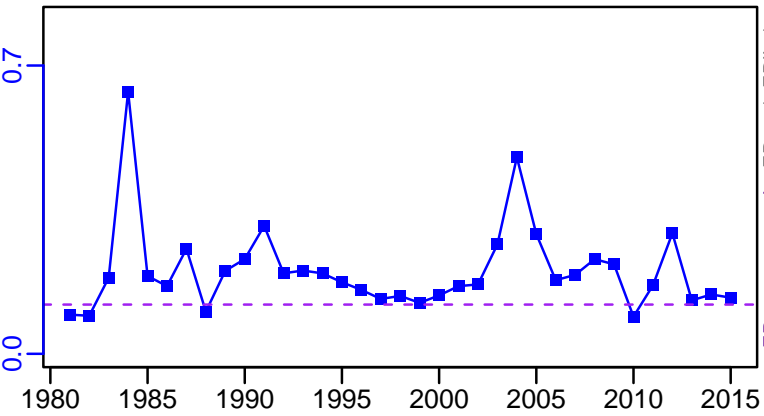
TN \*



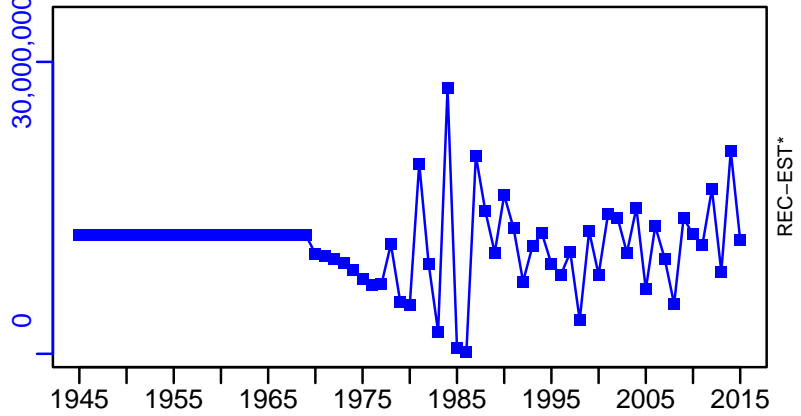
F-1/yr (1945-2015-SISIMP2021)



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



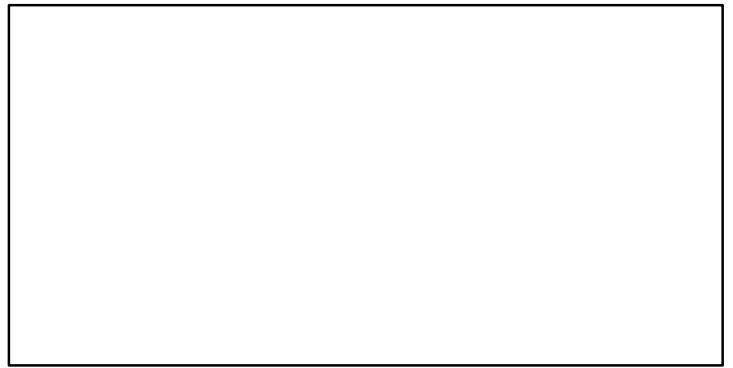
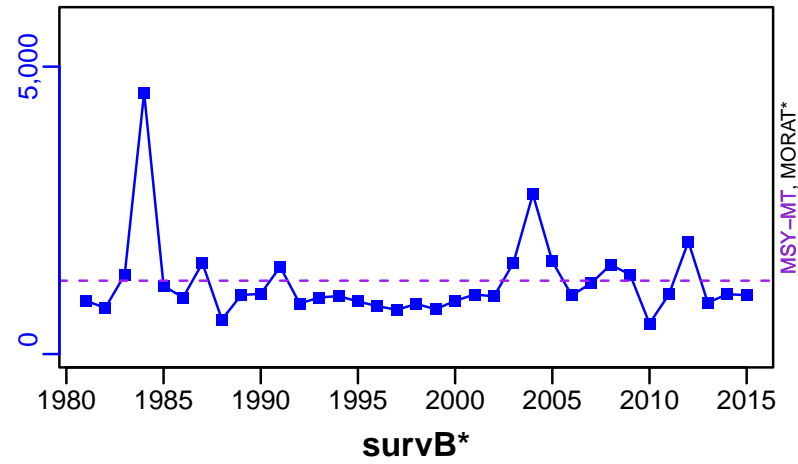
R-E00 (1945-2015-SISIMP2021)



Gray snapper Gulf of Mexico [GRSNAPGM]

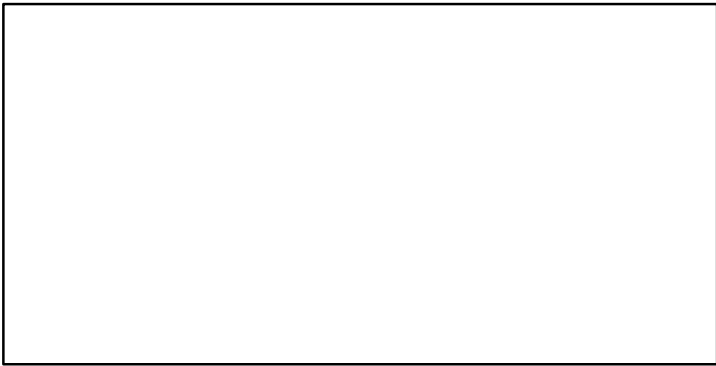
TC-MT, TL\*, RecC\* (1945-2015-SISIMP2021)

TAC\*, Cpair\*, Cadv\*



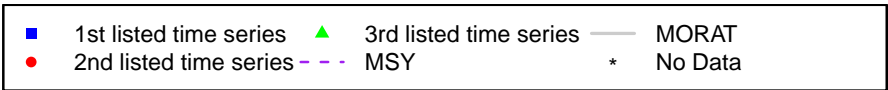
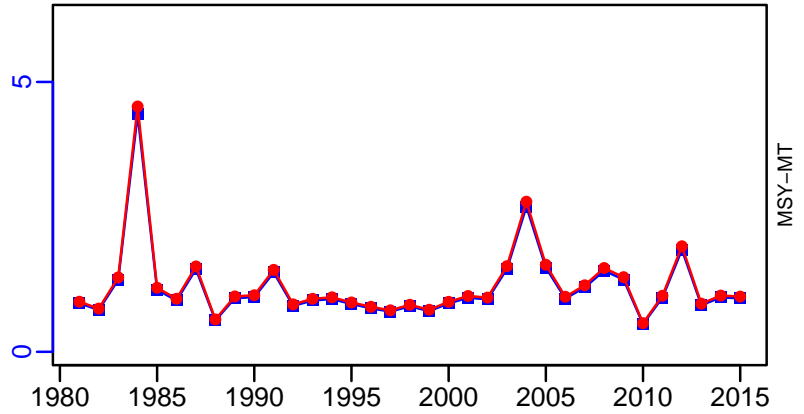
survB\*

CPUE\*



EFFORT\*

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



## Gray triggerfish Gulf of Mexico [GTRIGGM]

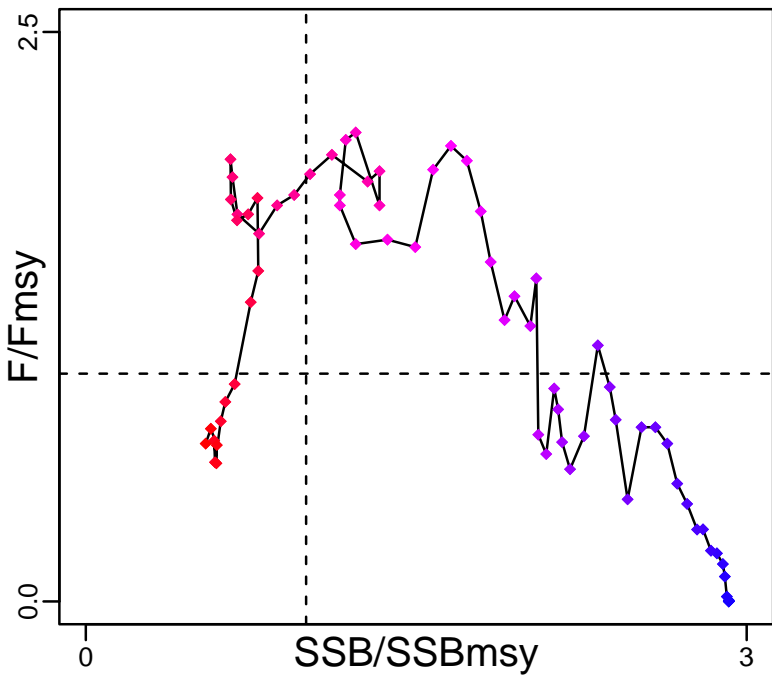
Metadata	
<b>Scientific Name</b>	Balistes capricus
<b>Current Assess ID</b>	SEFSC-GTRIGGM-1945-2013-SISIMP2016
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2013, 2010

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-E00eggs	2013	$1.11 \times 10^{10}$
<b>Fmsy</b>	Fmsy-1/yr	2013	0.153
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2013	0.115
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2013	447
<b>M</b>	M-1/yr	2010	0.27
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2013	$7 \times 10^9$
<b>Flim</b>	Flim-1/yr	2013	0.385
<b>ERlim</b>	-	-	-

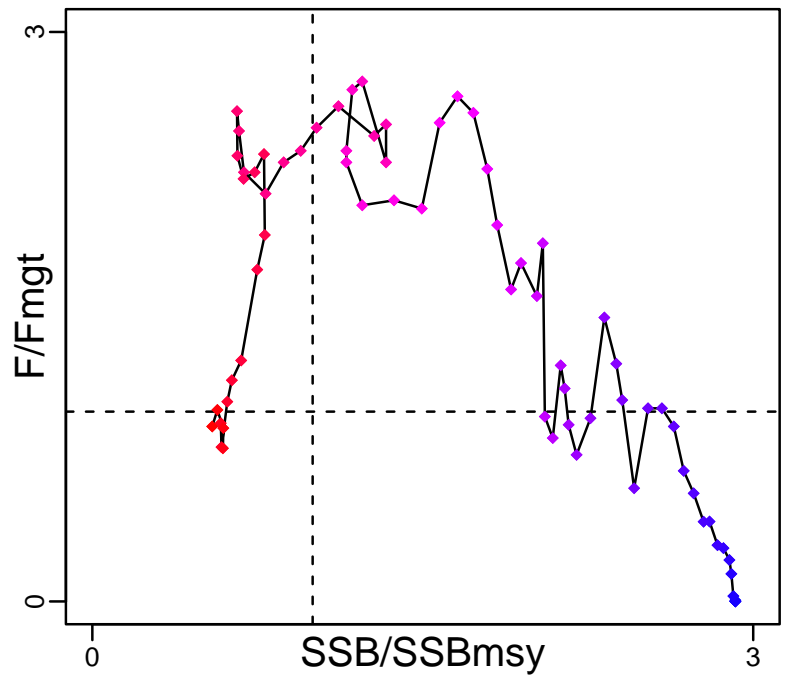
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	5780	-	1+
<b>SSB</b>	SSB-E00eggs	2013	$6.04 \times 10^9$	Females	-
<b>TN</b>	TN-E00	2010	2,050,000	-	-
<b>R</b>	R-E00	2013	6,710,000	-	0
<b>F</b>	F-1/yr	2013	0.106	-	-
<b>ER</b>	ER-calc-ratio	2013	0.131	-	-
<b>TC</b>	TC-MT	2013	757		
<b>TL</b>	TL-E00	2010	103,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2013	0.544		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2013	0.693		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	0.922		
<b>ER/ERmgt</b>	-	-	-		

Gray triggerfish Gulf of Mexico [GTRIGGM]

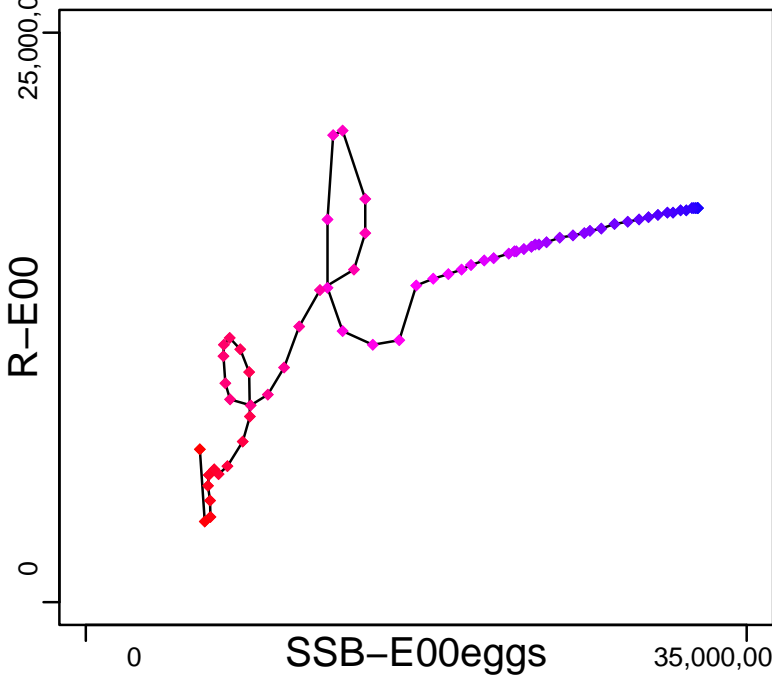
Kobe MSYpref (1945–2013–SISIMP2016)



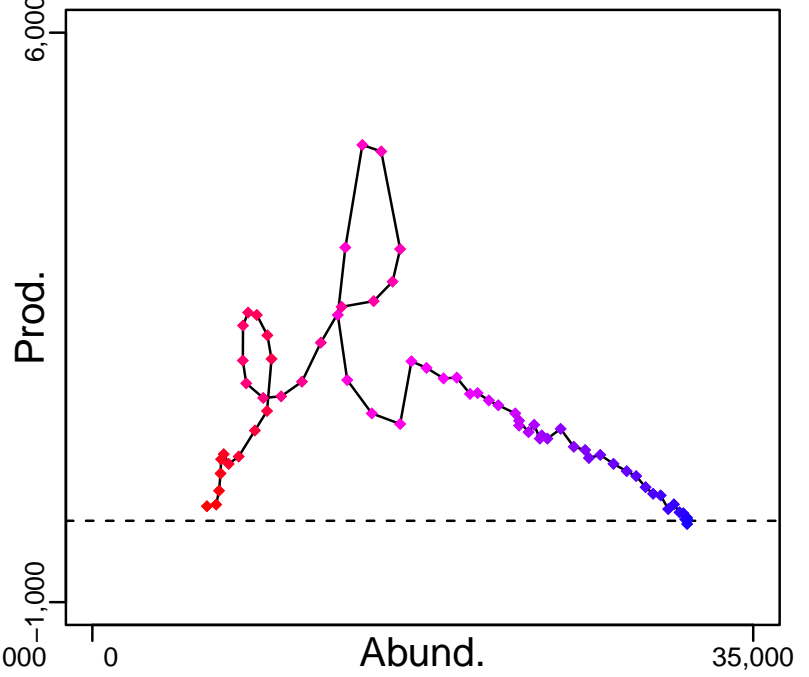
Kobe MGTpref (1945–2013–SISIMP2016)



Spawner Recruit (1945–2013–SISIMP2016)



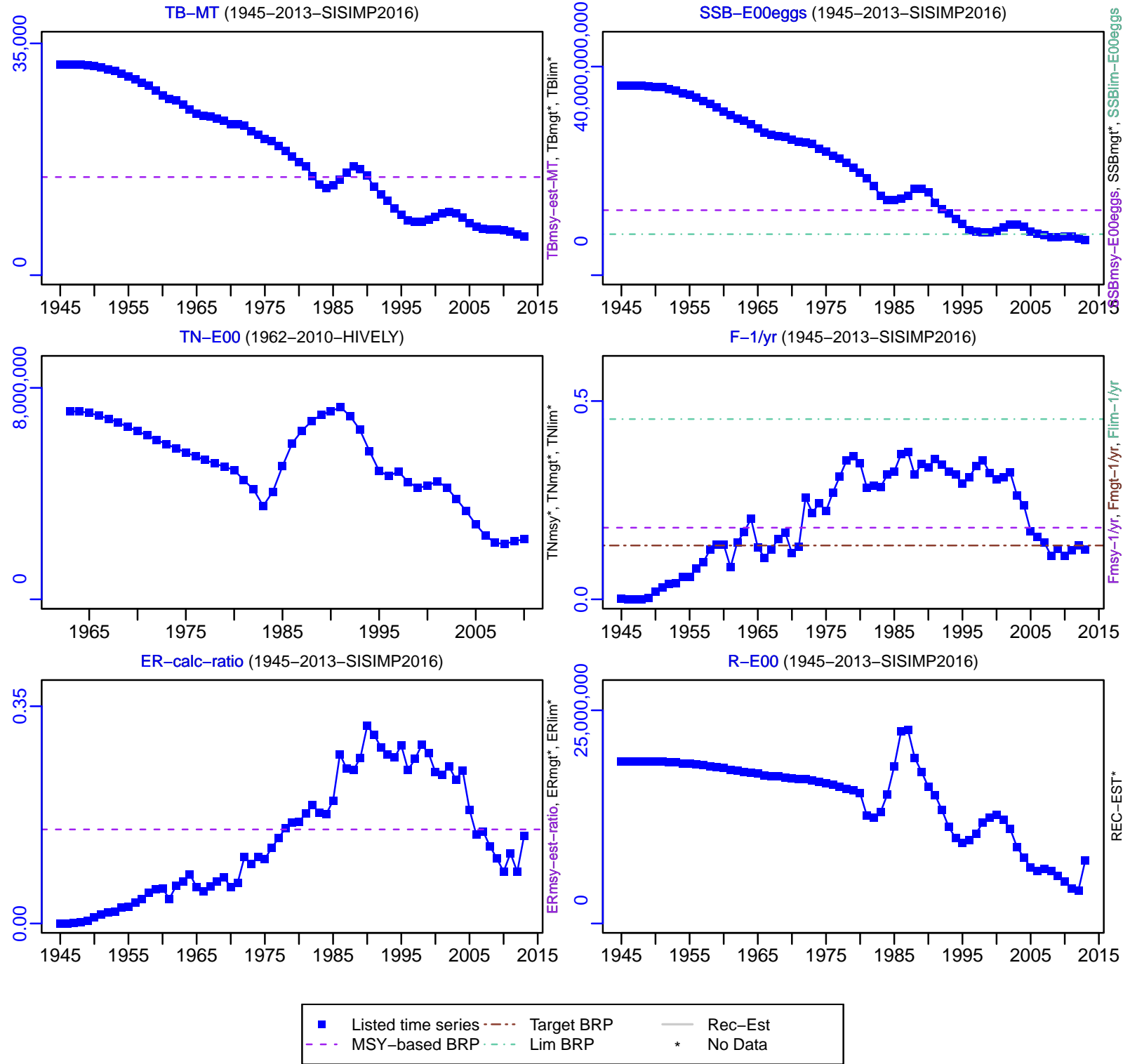
Production (1945–2013–SISIMP2016)



◆ Start Year ◆ End Year \* No Data



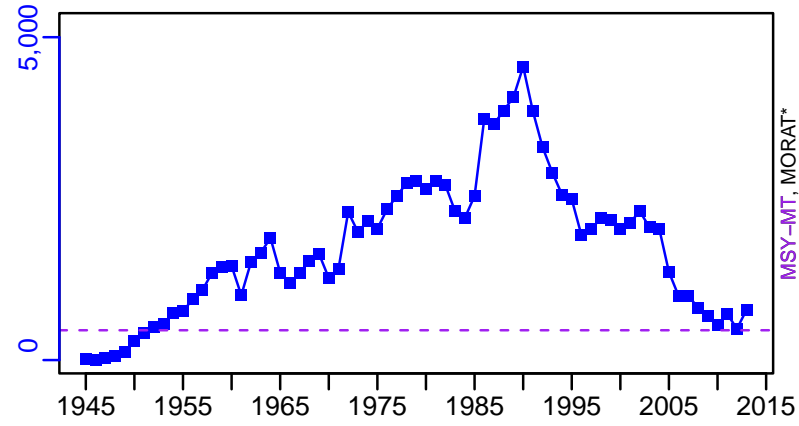
Gray triggerfish Gulf of Mexico [GTRIGGM]



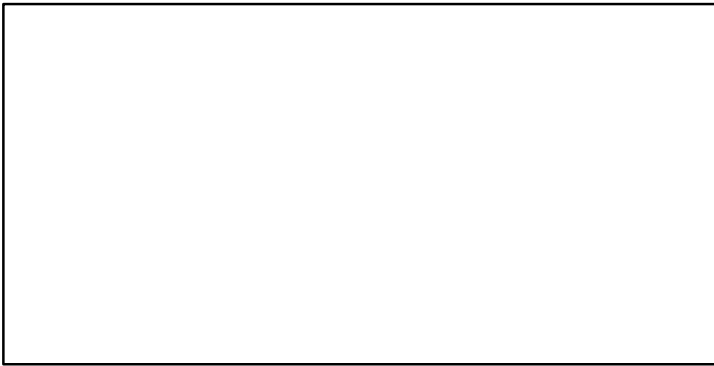
Gray triggerfish Gulf of Mexico [GTRIGGM]

TC-MT, TL\*, RecC\* (1945-2013-SISIMP2016)

TAC\*, Cpair\*, Cadv\*



survB\*



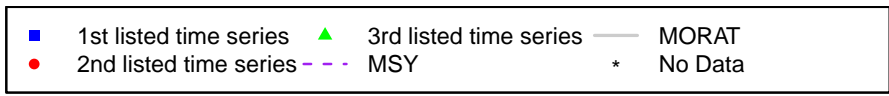
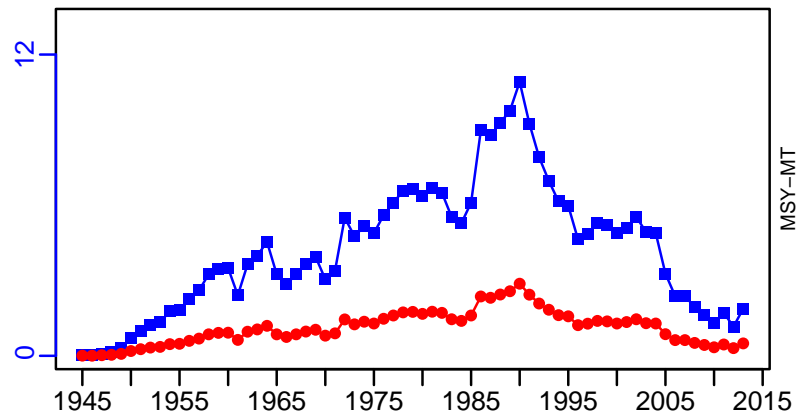
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1945-2013-SISIMP2016)



## King mackerel Gulf of Mexico [KMACKGM]

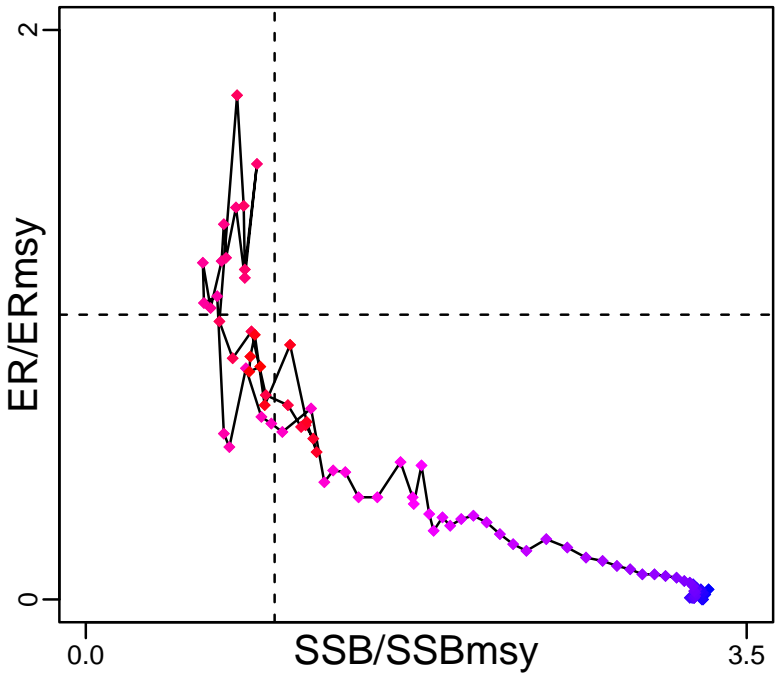
Metadata	
<b>Scientific Name</b>	Scomberomorus cavalla
<b>Current Assess ID</b>	SEFSC-KMACKGM-1930-2017-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2012, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-E00eggs	2017	$1.71 \times 10^{12}$
<b>Fmsy</b>	Fmsy-pr-1/yr	2012	0.164
<b>ERmsy</b>	ERmsy-ratio	2017	0.17
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-E00eggs	2012	1,229,070,000
<b>Fmgt</b>	Fmgt-1/yr	2012	0.123
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2012	0.16
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2017	$1.42 \times 10^{12}$
<b>Flim</b>	-	-	-
<b>ERlim</b>	ERlim-ratio	2017	0.17

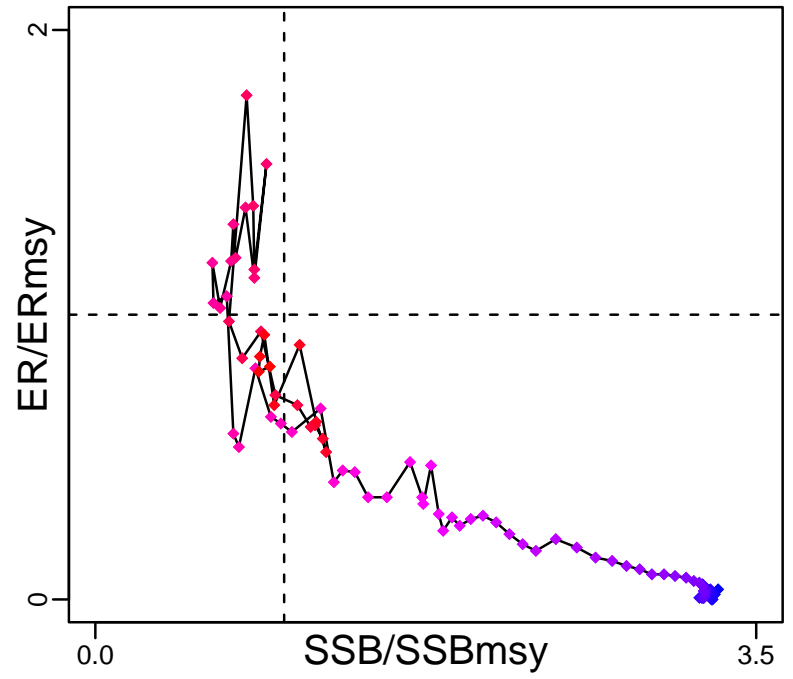
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-E00eggs	2017	$1.58 \times 10^{12}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	7,940,000	-	0
<b>F</b>	F-1/yr	2012	0.318	-	-
<b>ER</b>	ER-ratio	2017	0.139	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2017	3710	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-E00eggs	2017	0.924	-	-
<b>F/Fmsy</b>	F-1/yr/Fmsy-pr-1/yr	2012	1.943	-	-
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2017	0.818	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	SSB-E00eggs/SSBmgt-E00eggs	2012	1.928	-	-
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	2.592	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

King mackerel Gulf of Mexico [KMACKGM]

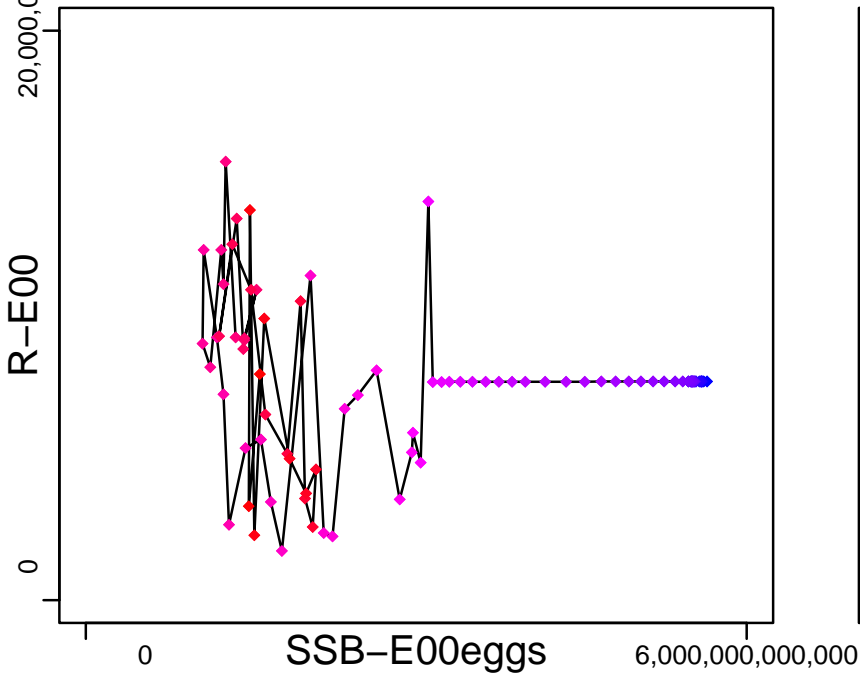
Kobe MSYpref (1930–2017–SISIMP2021–2)



Kobe MGTpref (1930–2017–SISIMP2021–2)



Spawner Recruit (1930–2017–SISIMP2021–2)



Production\*



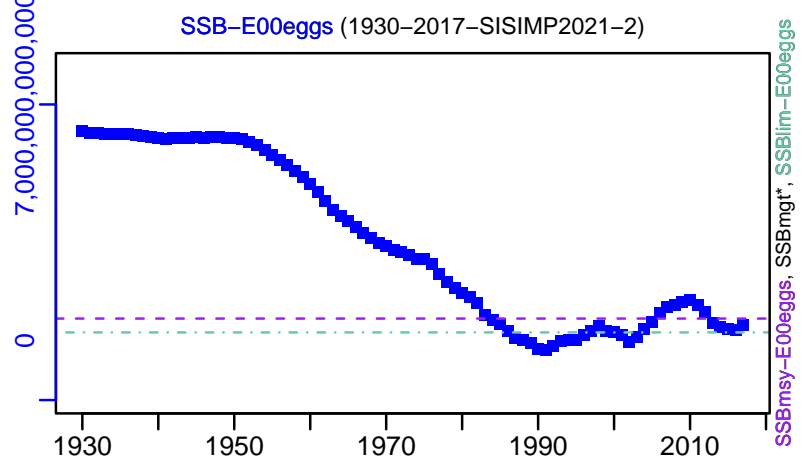
◆ Start Year ◆ End Year \* No Data

King mackerel Gulf of Mexico [KMACKGM]

TB\*



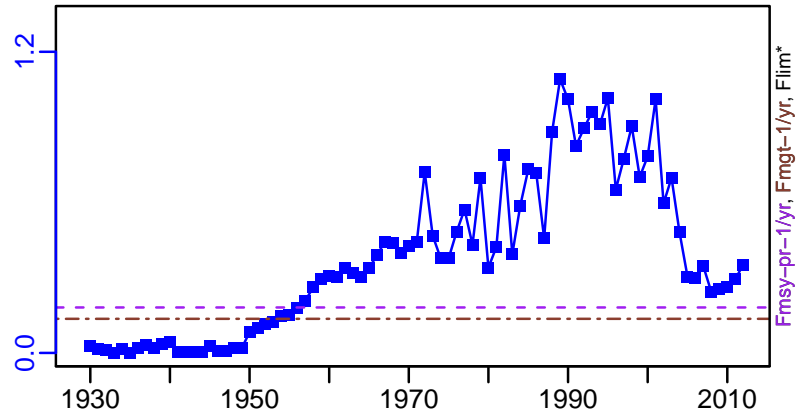
SSB-E00eggs (1930-2017-SISIMP2021-2)



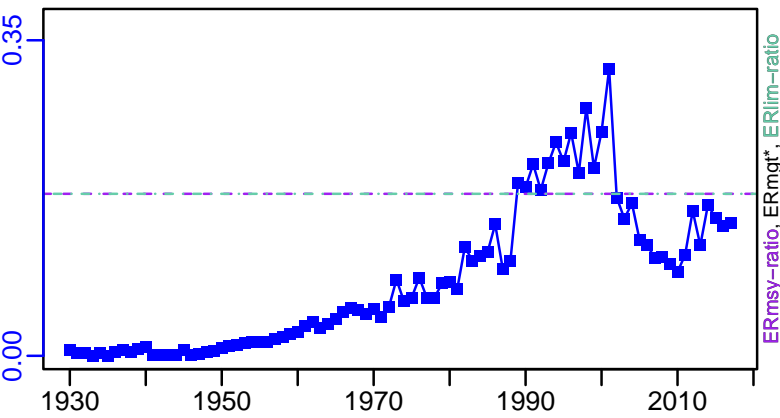
TN \*



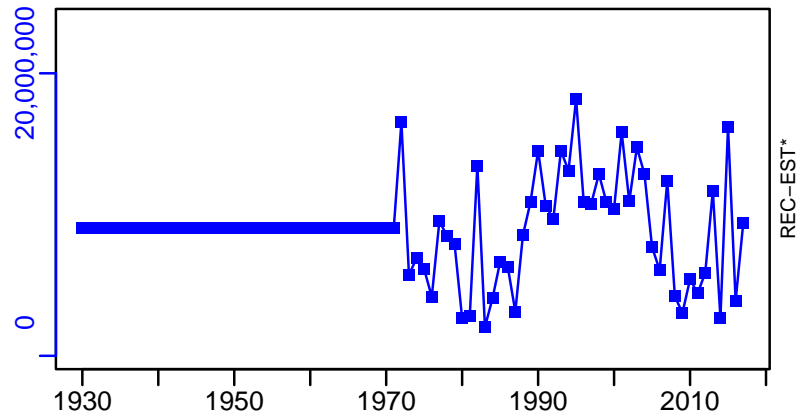
F-1/yr (1929-2012-HIVELY)



ER-ratio (1930-2017-SISIMP2021-2)



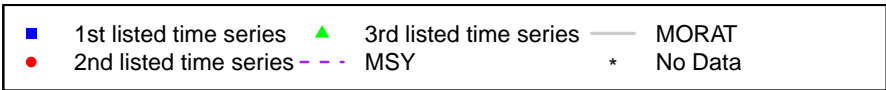
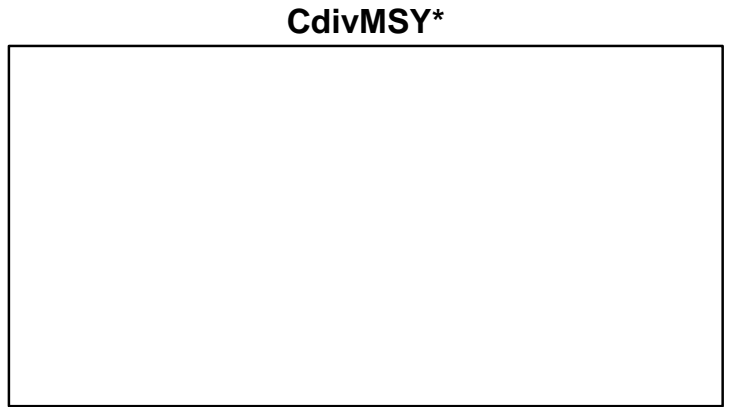
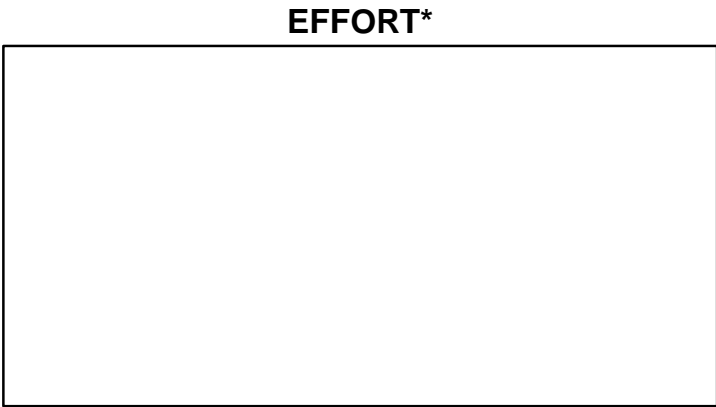
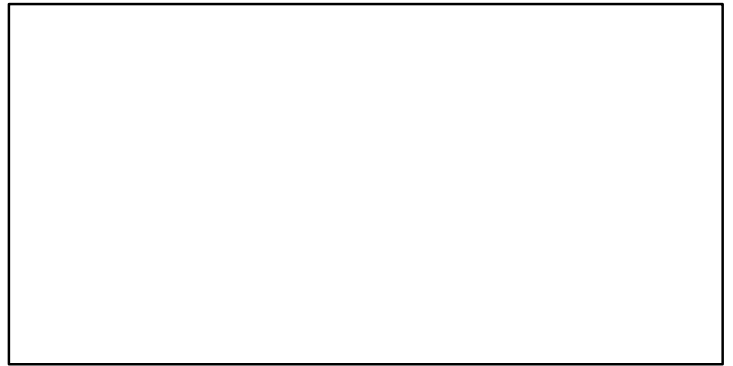
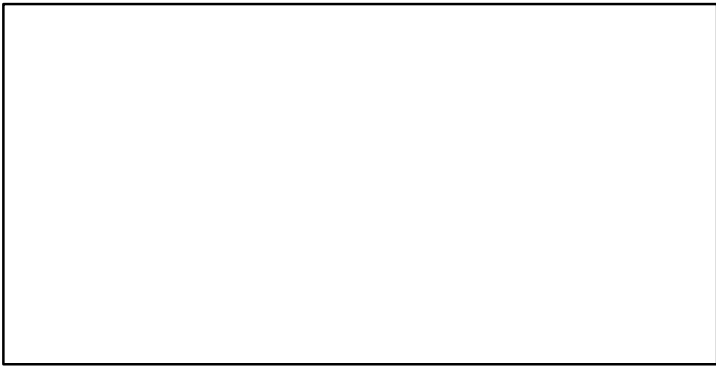
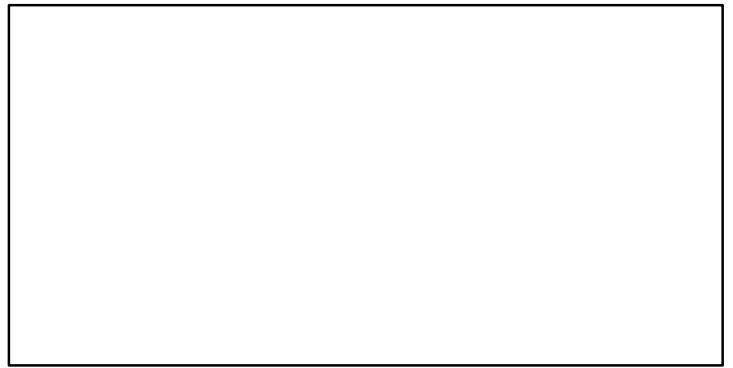
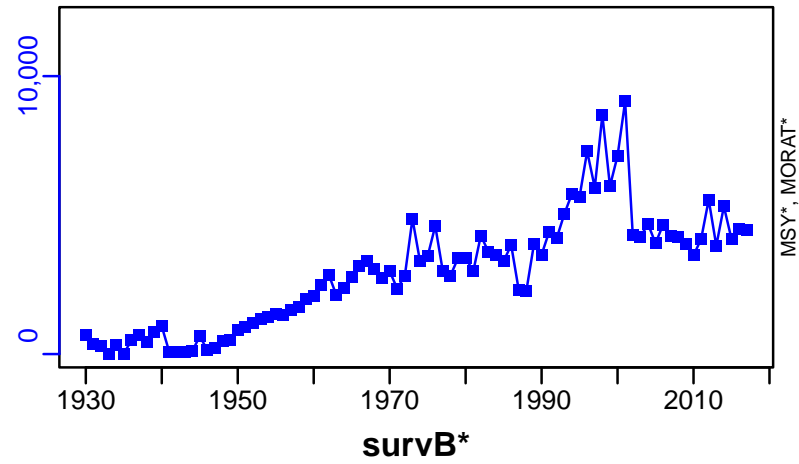
R-E00 (1930-2017-SISIMP2021-2)



King mackerel Gulf of Mexico [KMACKGM]

TL-MT, TC\*, RecC\* (1930-2017-SISIMP2021-2)

TAC\*, Cpair\*, Cadv\*



## King mackerel Southern Atlantic coast [KMACKSATLC]

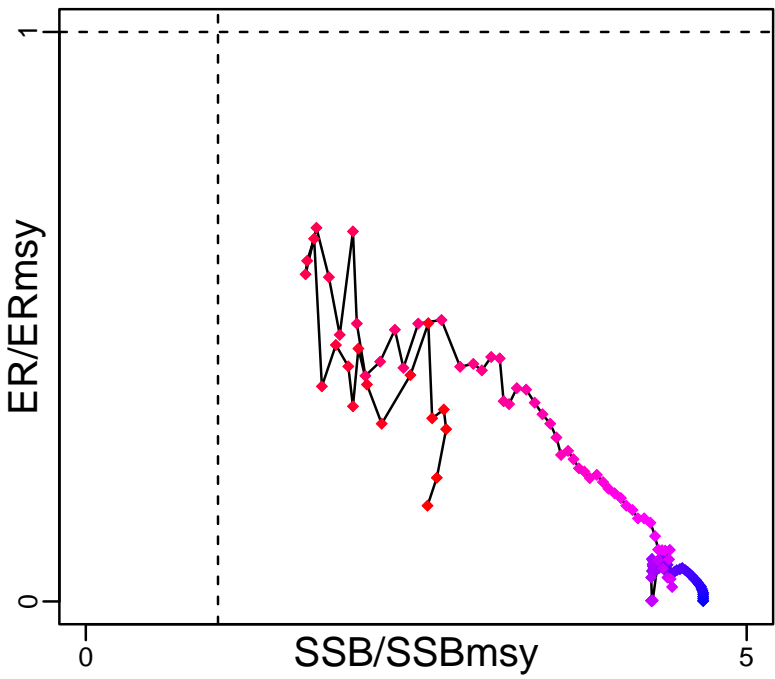
Metadata	
<b>Scientific Name</b>	Scomberomorus cavalla
<b>Current Assess ID</b>	SEFSC-KMACKSATLC-1901-2012-HIVELY
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-pr-E00eggs	2012	$1.702 \times 10^9$
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-pr-ratio	2012	0.157
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-E00eggs	2012	$1.702 \times 10^9$
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2012	0.118
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

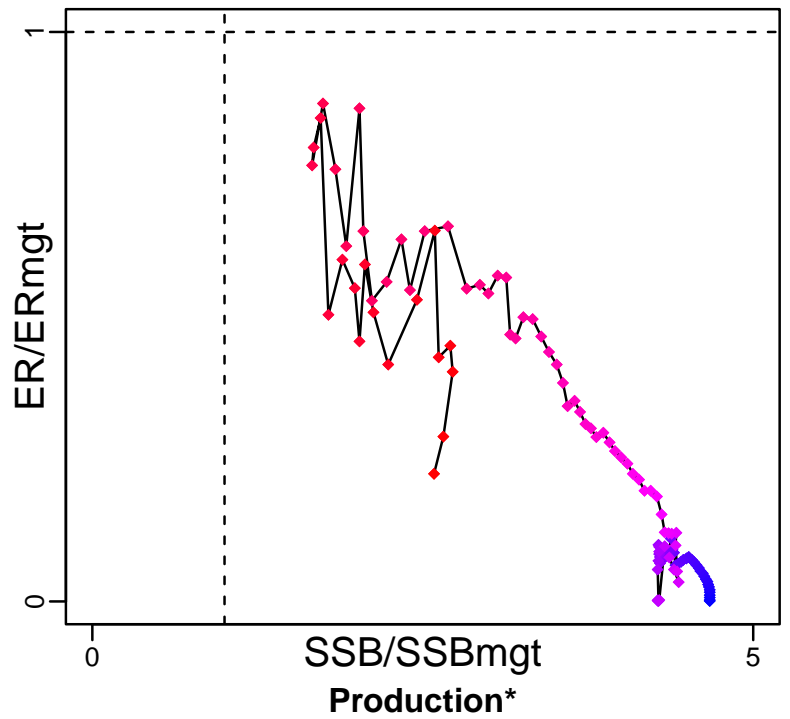
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-E00eggs	2012	$4.4 \times 10^9$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	2,510,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2012	0.026	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2012	1110	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-pr-E00eggs	2012	2.585	-	-
<b>F/Fmsy</b>	-	-	-	-	-
<b>ER/ERmsy</b>	ER-ratio/ERmsy-pr-ratio	2012	0.168	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	SSB-E00eggs/SSBmgt-E00eggs	2012	2.585	-	-
<b>F/Fmgt</b>	-	-	-	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

King mackerel Southern Atlantic coast [KMACKSATLC]

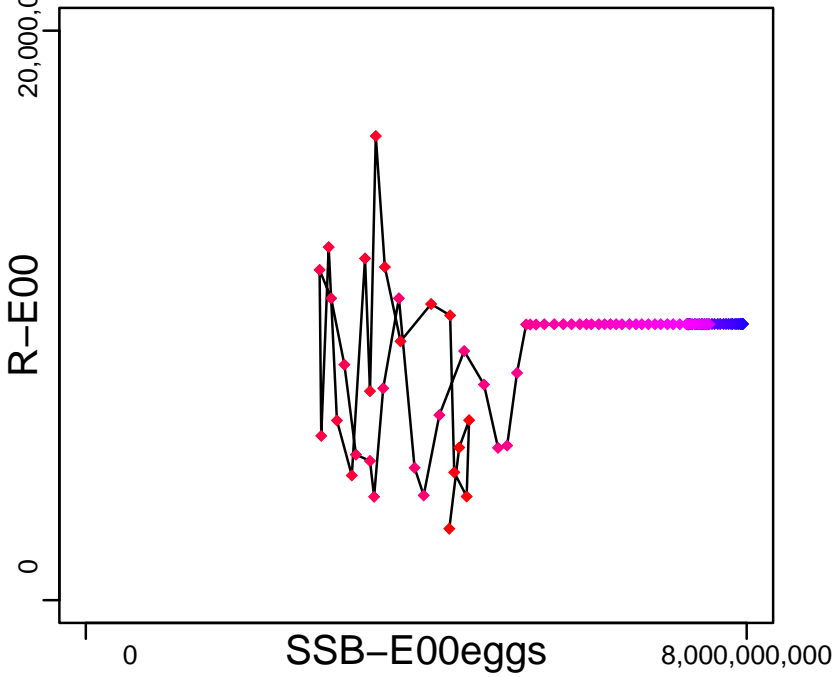
Kobe MSYpref (1901–2012–HIVELY)



Kobe MGTpref (1901–2012–HIVELY)



Spawner Recruit (1901–2012–HIVELY)



◆ Start Year ◆ End Year \* No Data

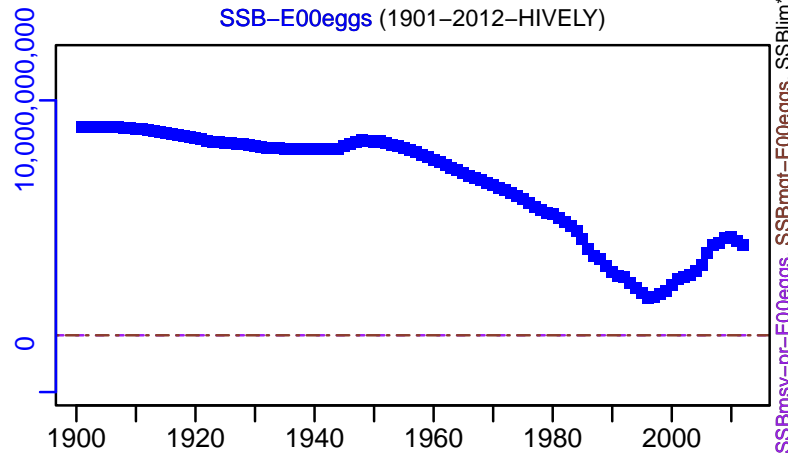


King mackerel Southern Atlantic coast [KMACKSATLC]

TB\*

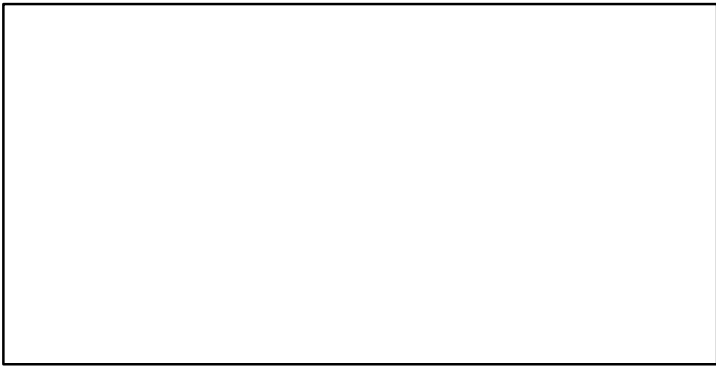


SSB-E00eggs (1901-2012-HIVELY)

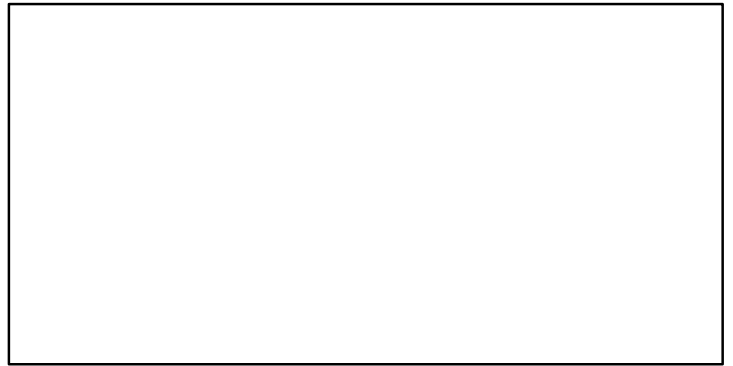


SSBmsy-pr-E00eggs, SSBmgt-E00eggs, SSBlim\*

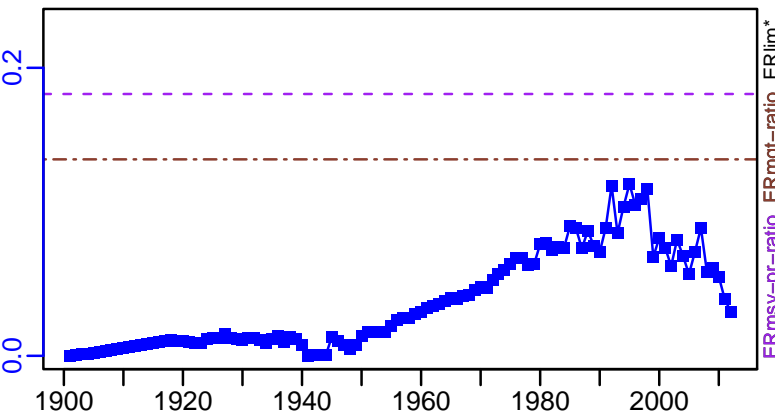
TN \*



F\*

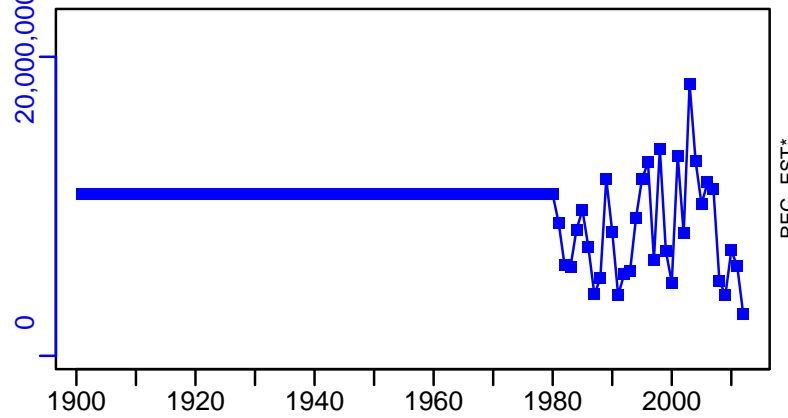


ER-ratio (1901-2012-HIVELY)

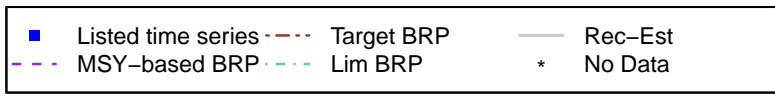


ERmsy-pr-ratio, ERmgt-ratio, ERlim\*

R-E00 (1901-2012-HIVELY)



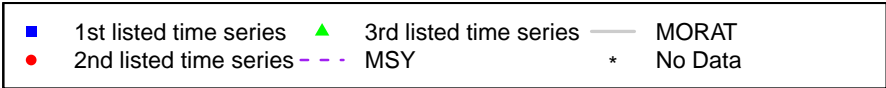
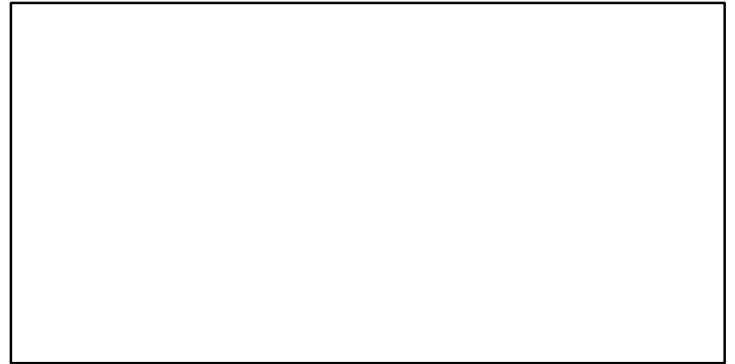
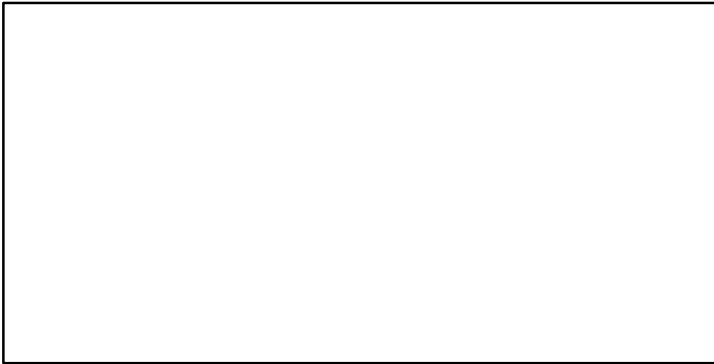
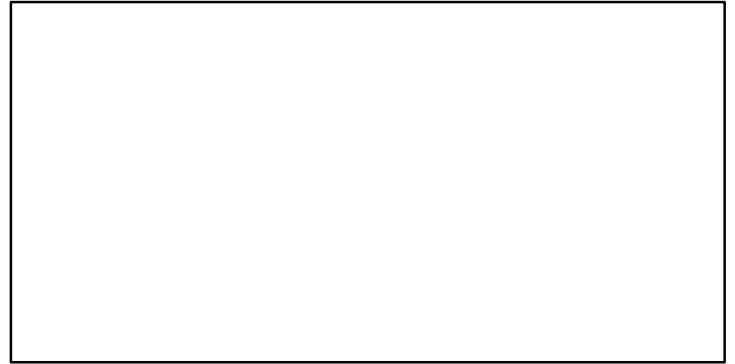
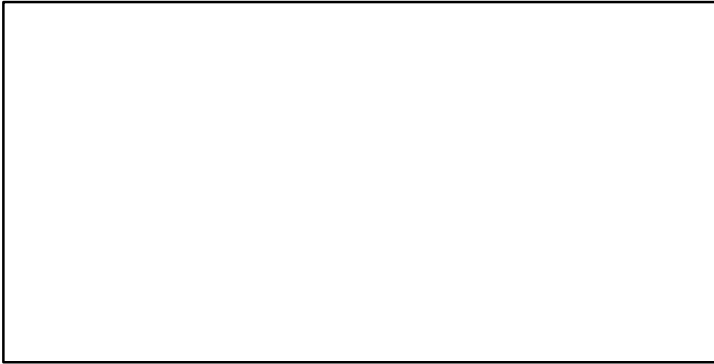
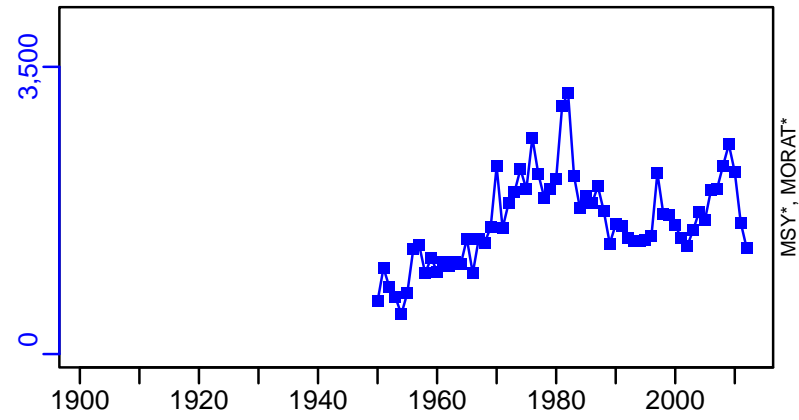
REC-EST\*



King mackerel Southern Atlantic coast [KMACKSATLC]

TL-MT, TC\*, RecC\* (1901-2012-HIVELY)

TAC\*, Cpair\*, Cadv\*



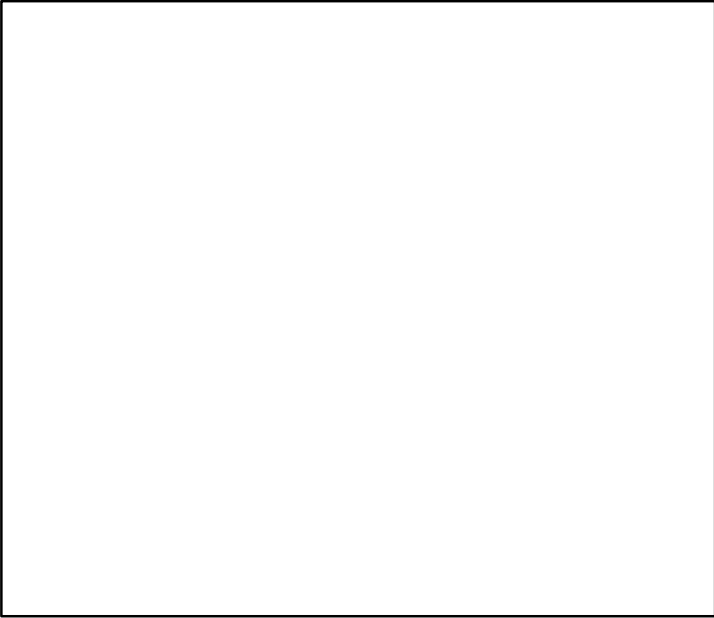
## Lane snapper Gulf of Mexico [LNSNAPGM]

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

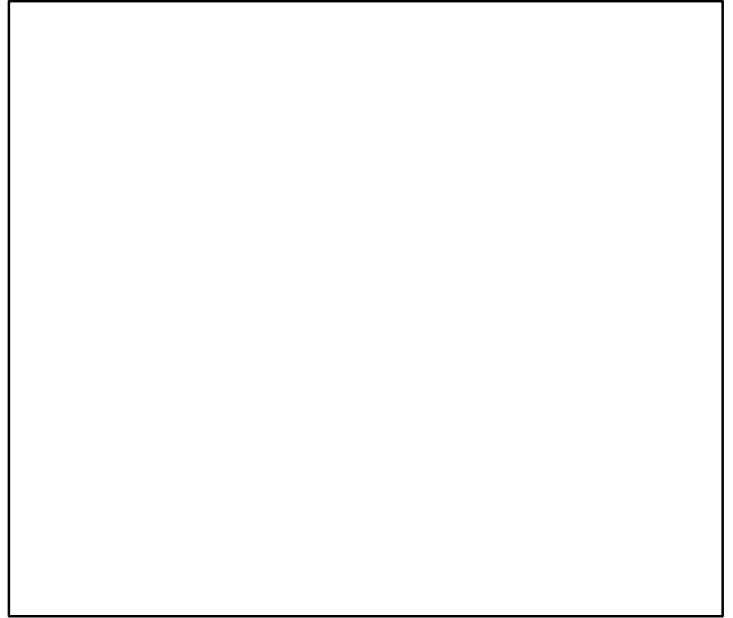
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	141
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

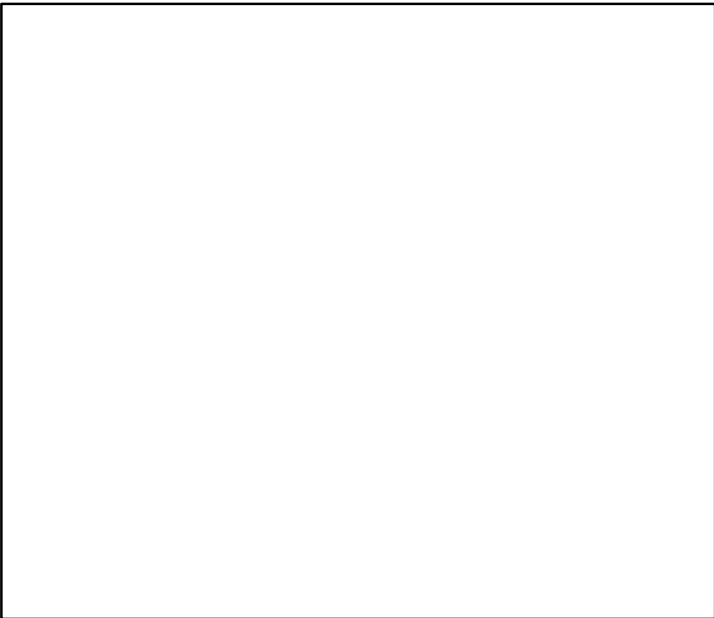
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

Lane snapper Gulf of Mexico [LNSNAPGM]

TB\*



SSB\*



TN \*



F\*



ER\*



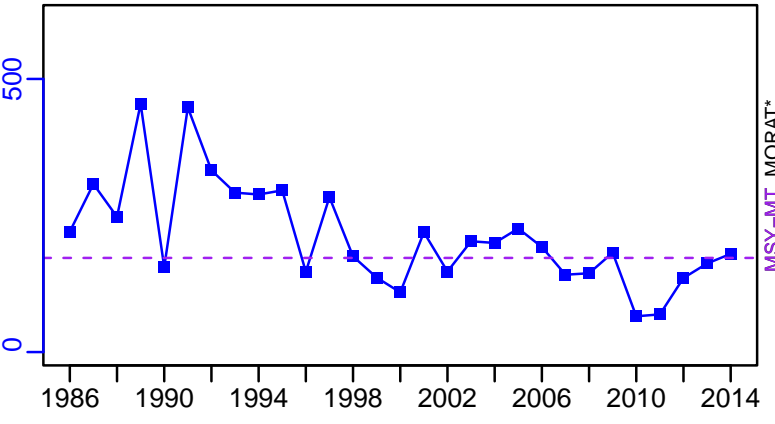
Recruits\*



Lane snapper Gulf of Mexico [LNSNAPGM]

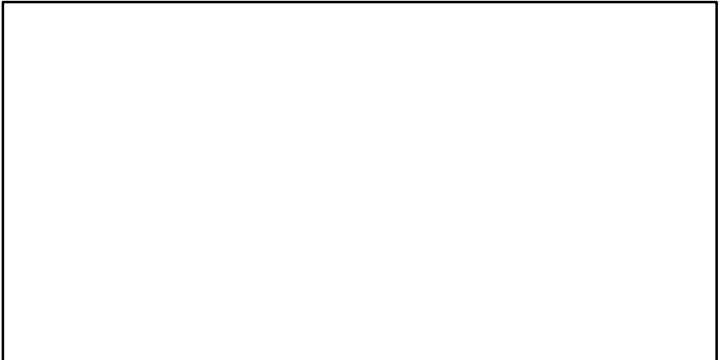
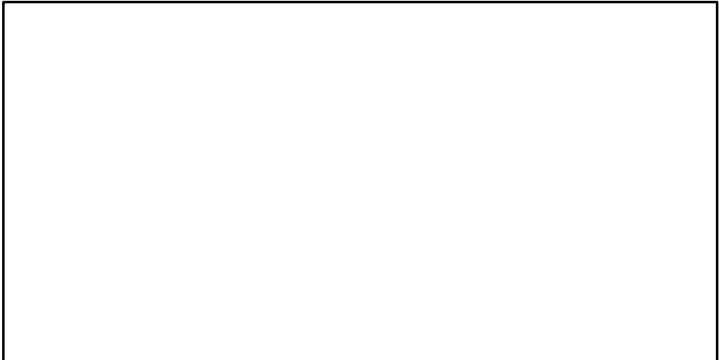
TC-MT, TL\*, RecC\* (1986-2014-SISIMP2021)

TAC\*, Cpair\*, Cadv\*



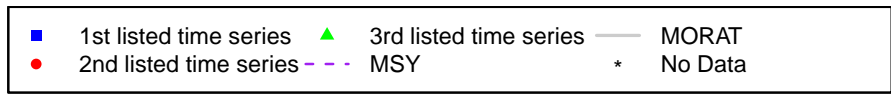
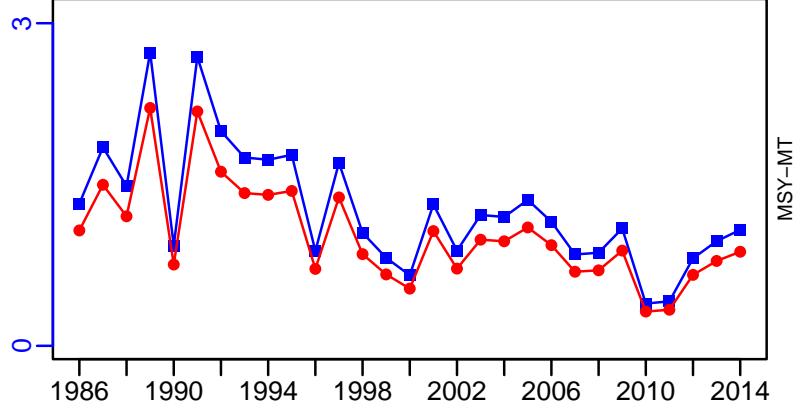
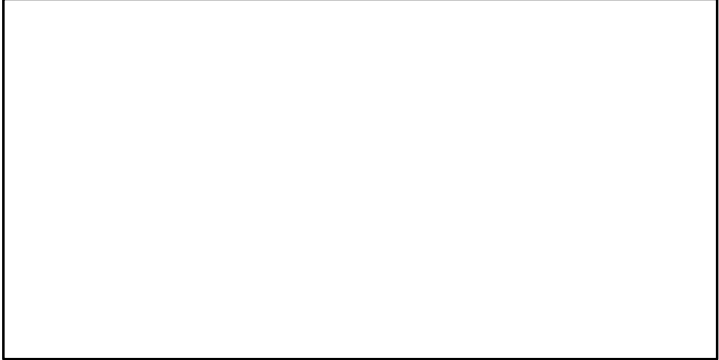
survB\*

CPUE\*



EFFORT\*

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



## Gulf menhaden Gulf of Mexico [MENATGM]

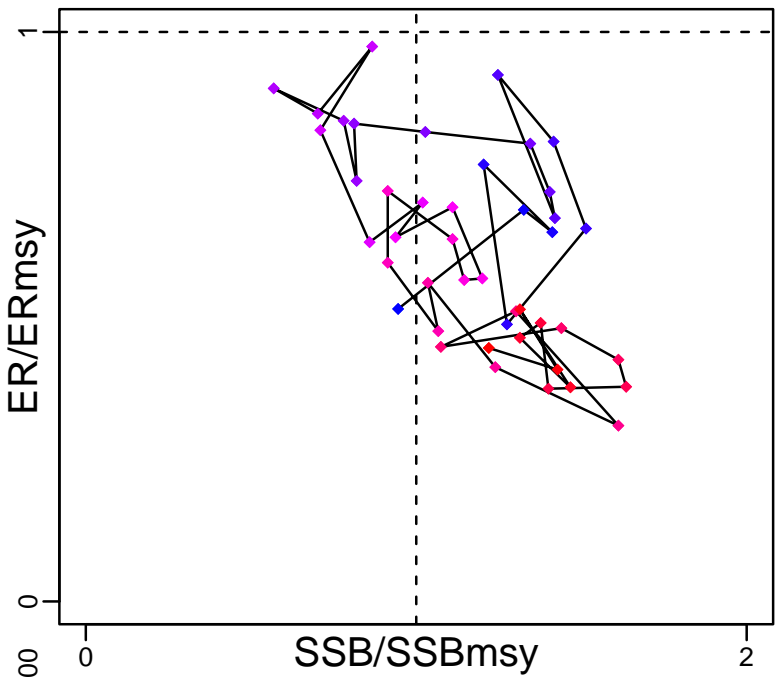
Metadata	
<b>Scientific Name</b>	Brevoortia patronus
<b>Current Assess ID</b>	SEFSC-MENATGM-1977-2022-HIVELY
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011, 2017, 2022

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-pr-E00eggs	2022	$2.55 \times 10^{15}$
<b>Fmsy</b>	Fmsy-pr-1/yr	2022	0.99
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-E00eggs	2011	$4.98 \times 10^{13}$
<b>Fmgt</b>	Fmgt-1/yr	2011	3.66
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	1.22
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00eggs	2011	$2.26 \times 10^{13}$
<b>Flim</b>	Flim-1/yr	2011	4.88
<b>ERlim</b>	-	-	-

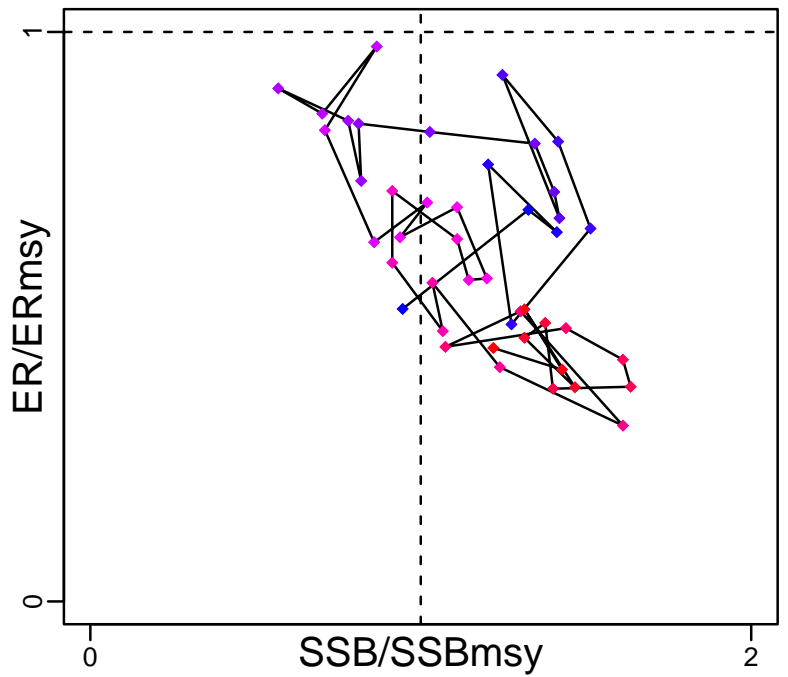
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2022	2,395,973	-	-
<b>SSB</b>	SSB-E00eggs	2022	$3.57 \times 10^{15}$	-	-
<b>TN</b>	TN-E00	2022	$1.84 \times 10^{11}$	-	-
<b>R</b>	R-E00	2022	$1.45 \times 10^{11}$	-	-
<b>F</b>	F-1/yr	2017	0.63	Both	0-4+
<b>ER</b>	ER-calc-ratio	2022	0.226	-	-
<b>TC</b>	TC-MT	2017	462,460		
<b>TL</b>	TL-MT	2022	414,730		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-E00eggs/SSBmsy-pr-E00eggs	2022	1.4		
<b>F/Fmsy</b>	F-1/yr/Fmsy-pr-1/yr	2017	0.063		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-E00eggs/SSBmgt-E00eggs	2011	1.014		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2011	0.645		
<b>ER/ERmgt</b>	-	-	-		

Gulf menhaden Gulf of Mexico [MENATGM]

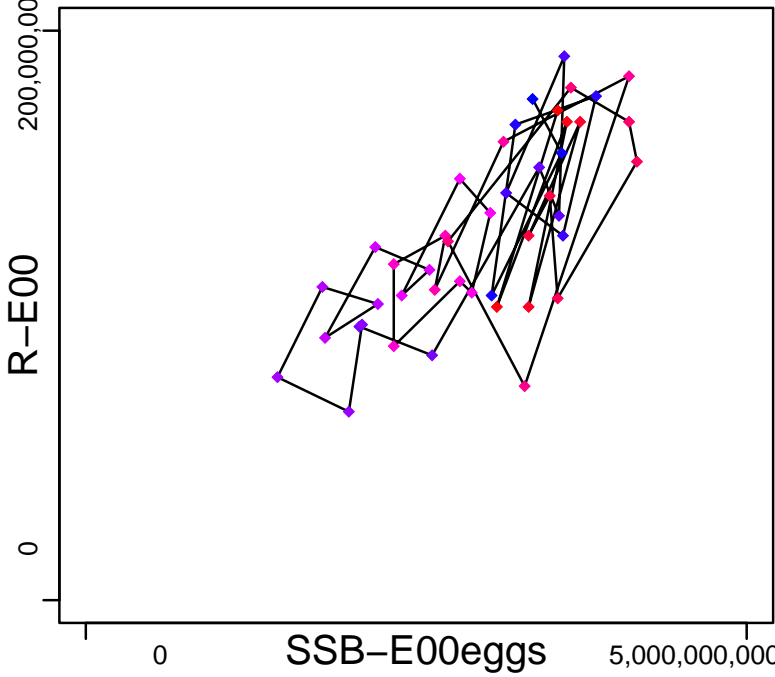
Kobe MSYpref (1977-2022-HIVELY)



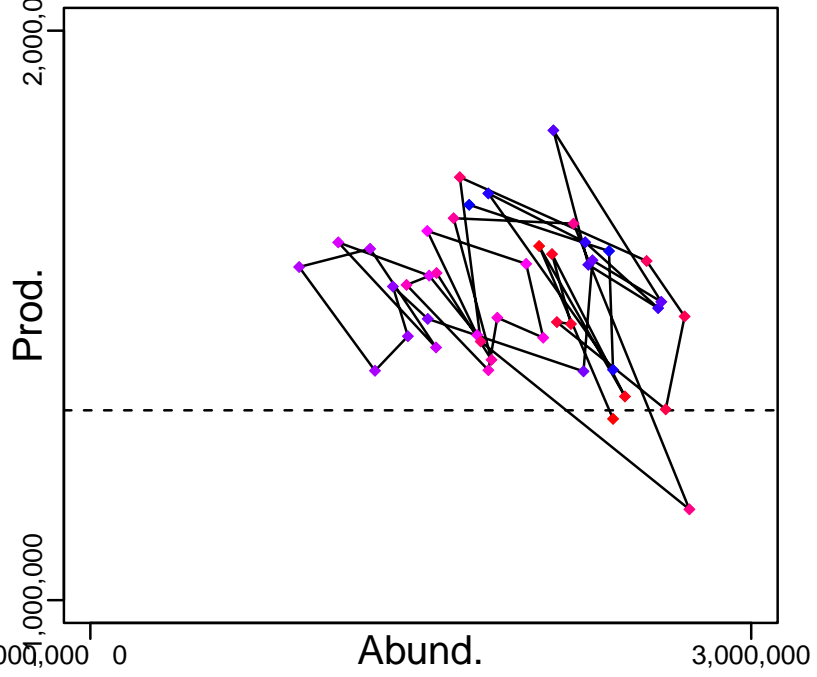
Kobe MGTpref (1977-2022-HIVELY)



Spawner Recruit (1977-2022-HIVELY)



Production (1977-2022-HIVELY)

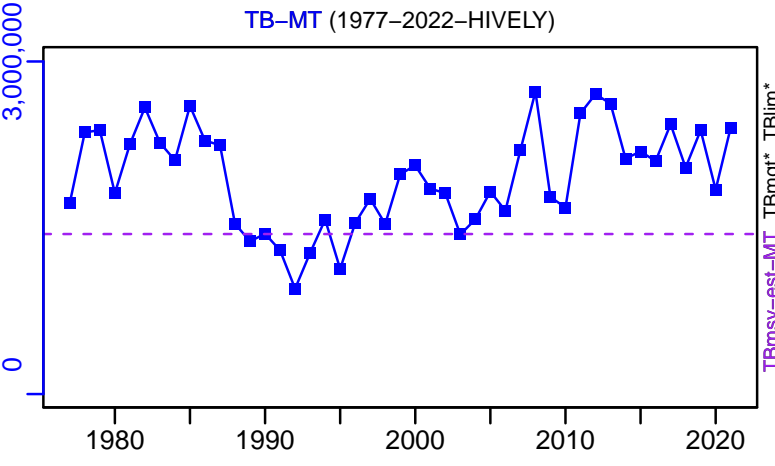


◆ Start Year ◆ End Year \* No Data

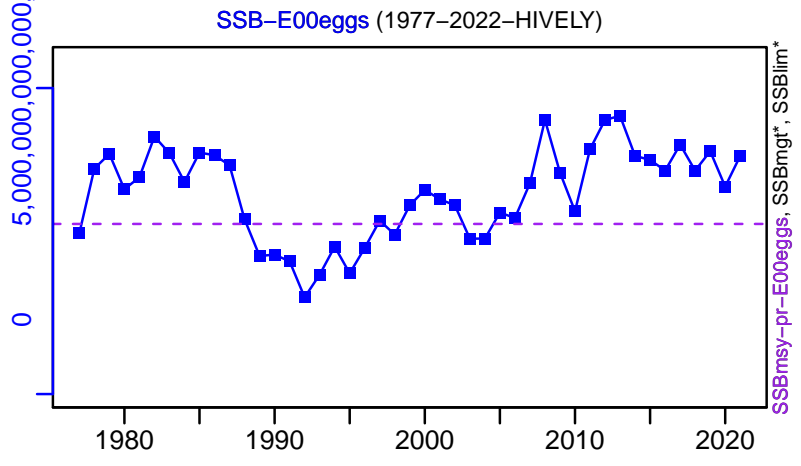


Gulf menhaden Gulf of Mexico [MENATGM]

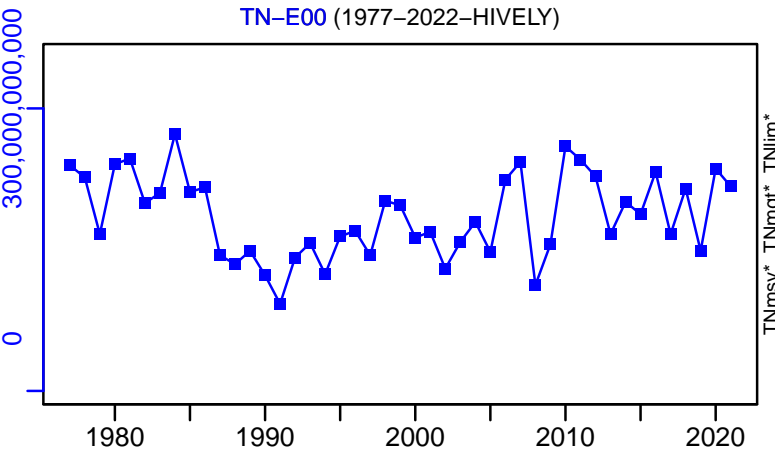
TB-MT (1977-2022-HIVELY)



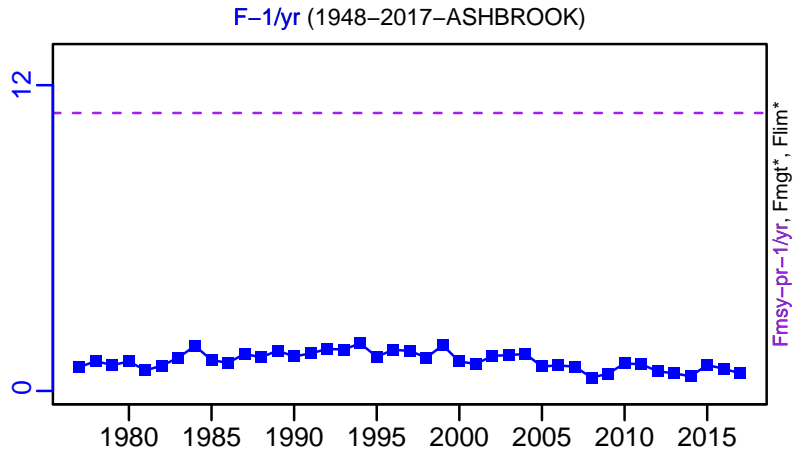
SSB-E00eggs (1977-2022-HIVELY)



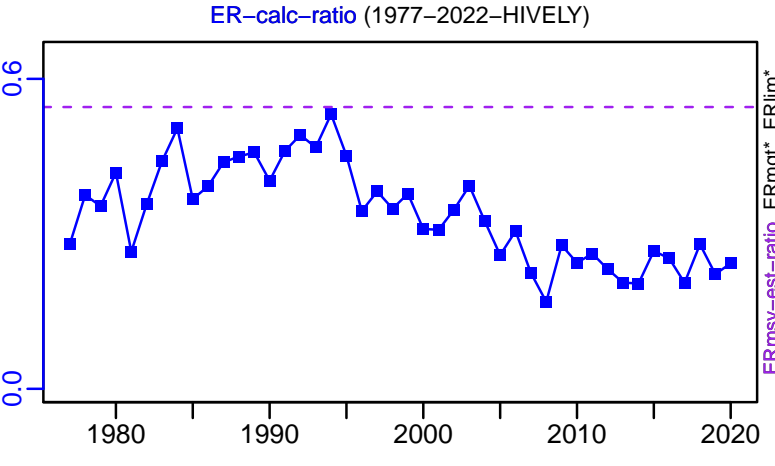
TN-E00 (1977-2022-HIVELY)



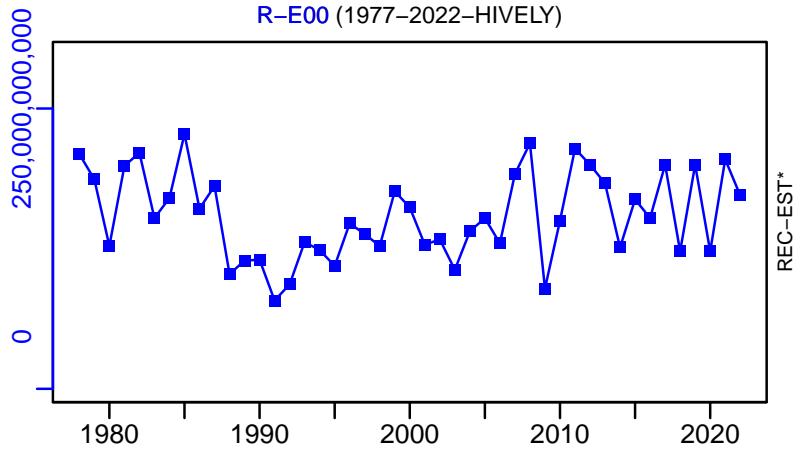
F-1/yr (1948-2017-ASHBROOK)



ER-calc-ratio (1977-2022-HIVELY)

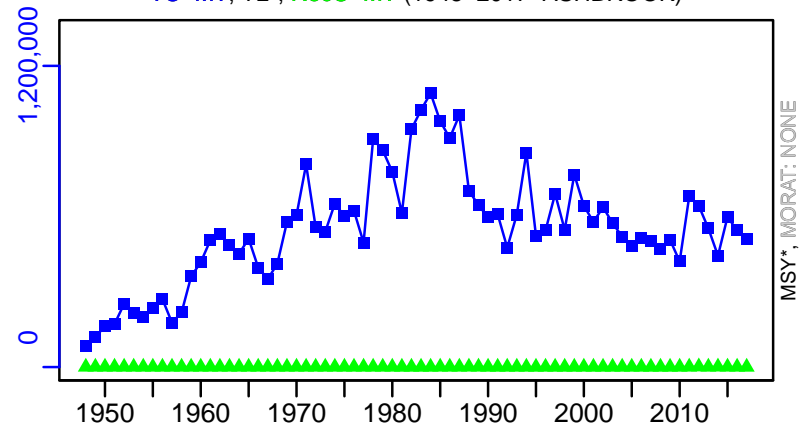


R-E00 (1977-2022-HIVELY)



Gulf menhaden Gulf of Mexico [MENATGM]

TC-MT, TL\*, RecC-MT (1948-2017-ASHBROOK)



TAC\*, Cpair\*, Cadv\*



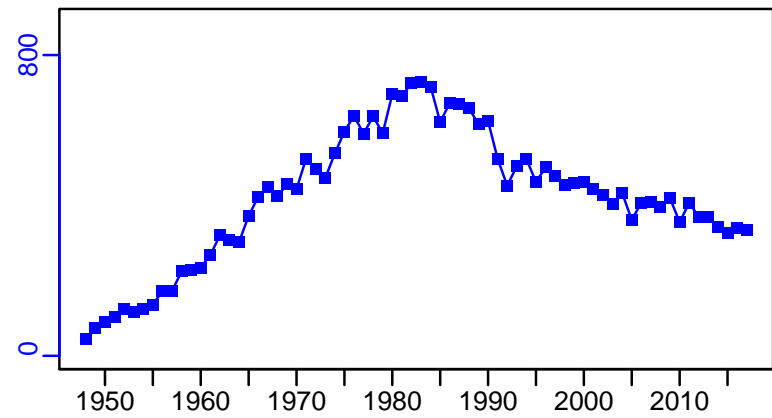
survB\*



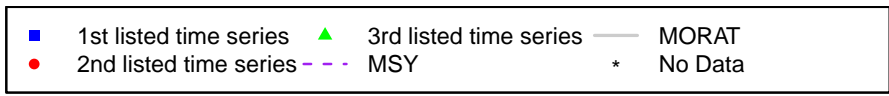
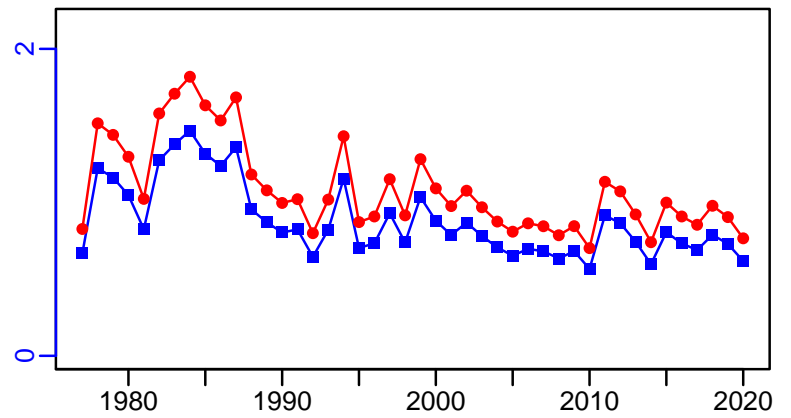
CPUE\*



EFFORT-vtw (1948-2017-ASHBROOK)



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1977-2022-HIVELY)



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

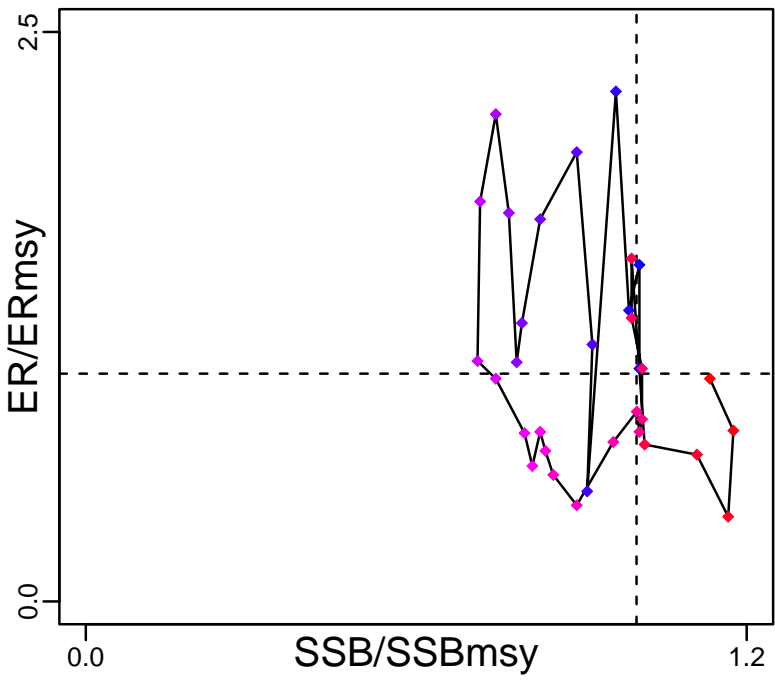
Metadata	
<b>Scientific Name</b>	Lutjanus analis
<b>Current Assess ID</b>	SEFSC-MUTSNAPSATLCGM-1981-2013-SISIMP2016
<b>Area</b>	Southern Atlantic coast and Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science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

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

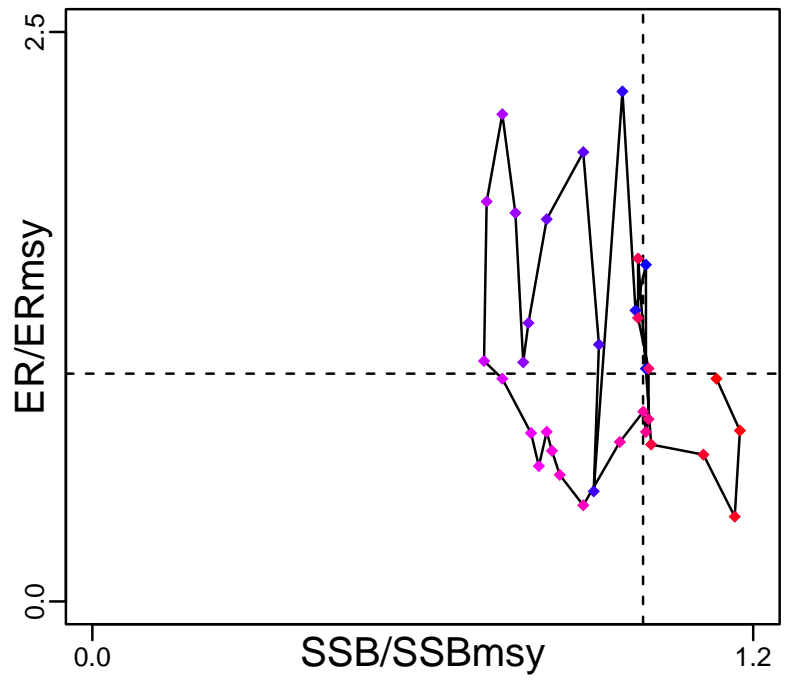
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	5210	-	-
<b>SSB</b>	SSB-MT	2013	2390	Females	4+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2006	1,580,000	-	-
<b>F</b>	F-1/yr	2006	0.18	-	-
<b>ER</b>	ER-ratio	2013	0.176	-	3
<b>TC</b>	TC-MT	2013	404		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>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

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

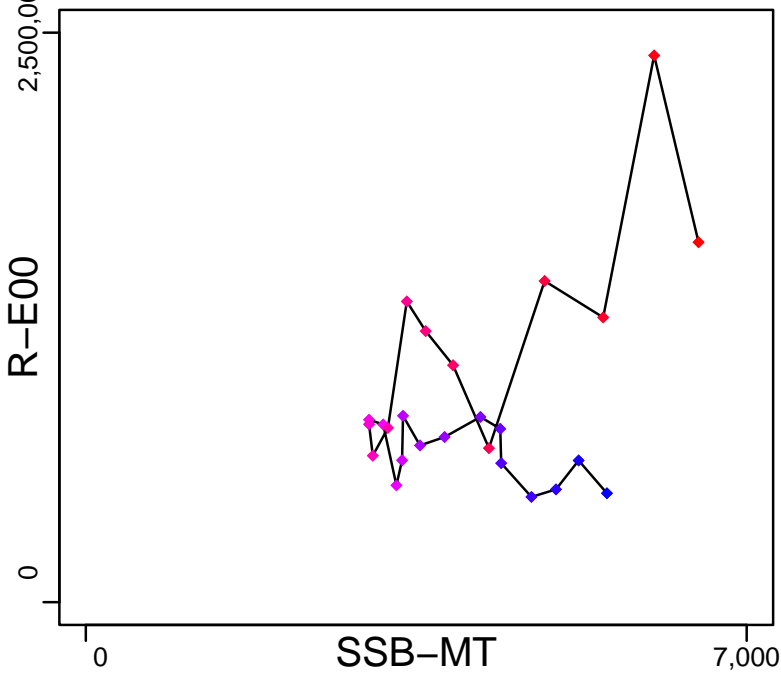
Kobe MSYpref (1981–2013–SISIMP2016)



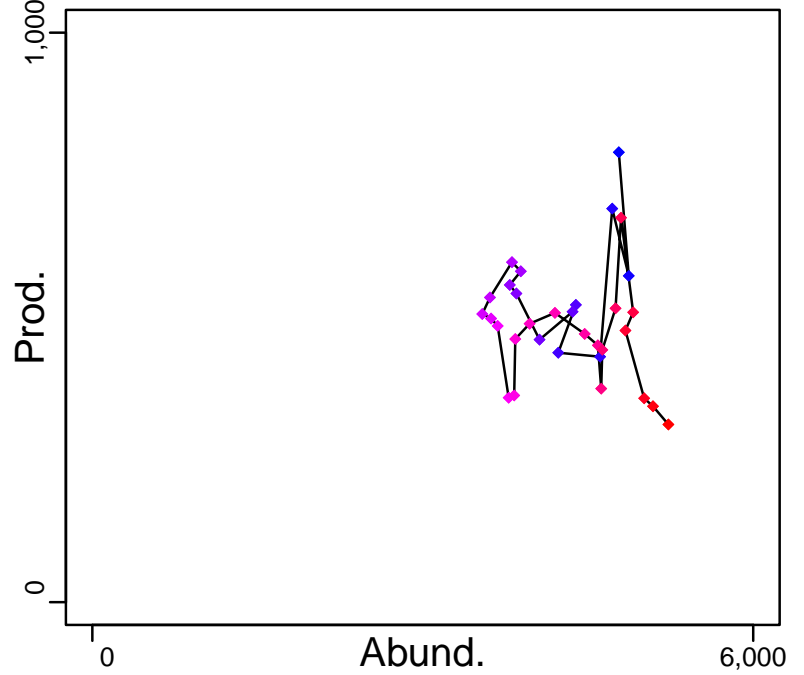
Kobe MGTpref (1981–2013–SISIMP2016)



Spawner Recruit (1981–2006–JENSEN)



Production (1981–2013–SISIMP2016)

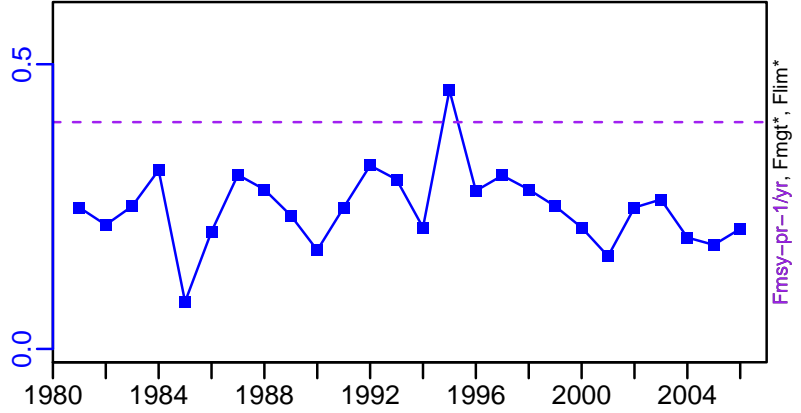
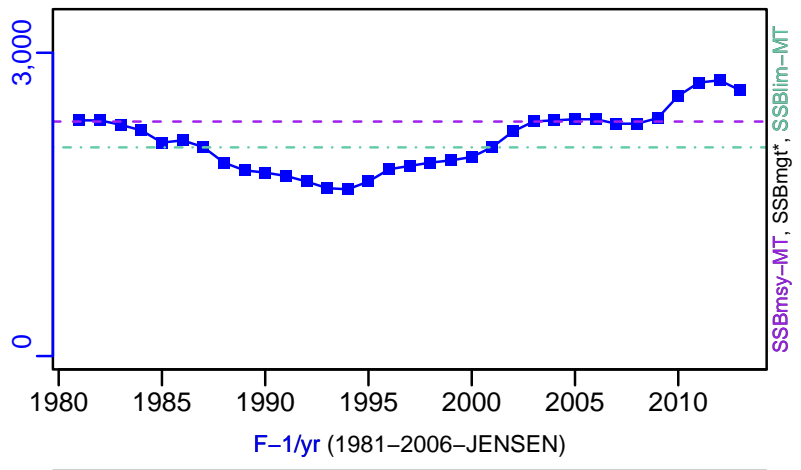
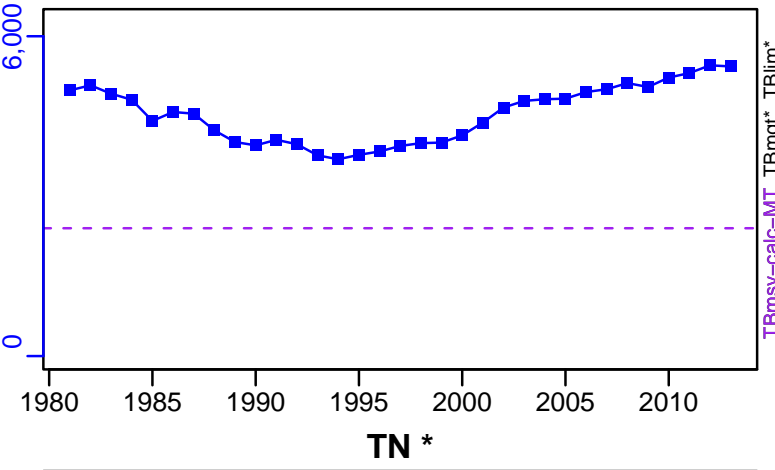


◆ Start Year ◆ End Year \* No Data

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

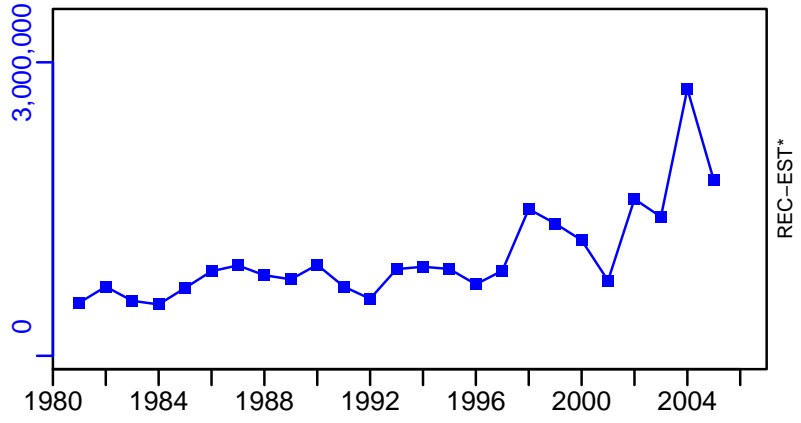
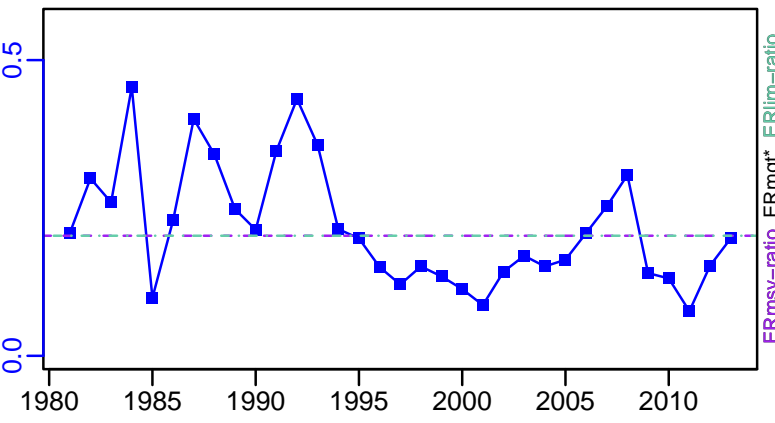
TB-MT (1981-2013-SISIMP2016)

SSB-MT (1981-2013-SISIMP2016)



ER-ratio (1981-2013-SISIMP2016)

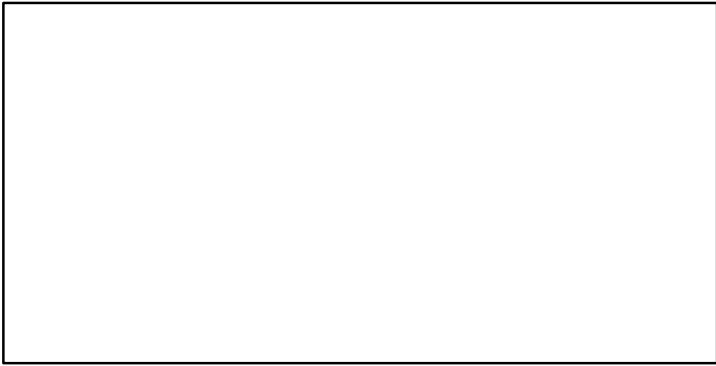
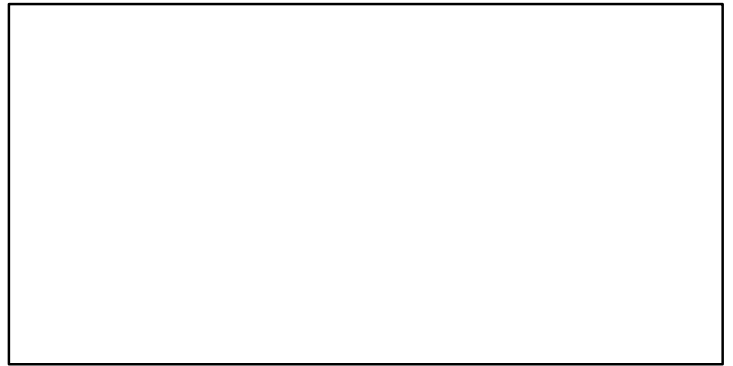
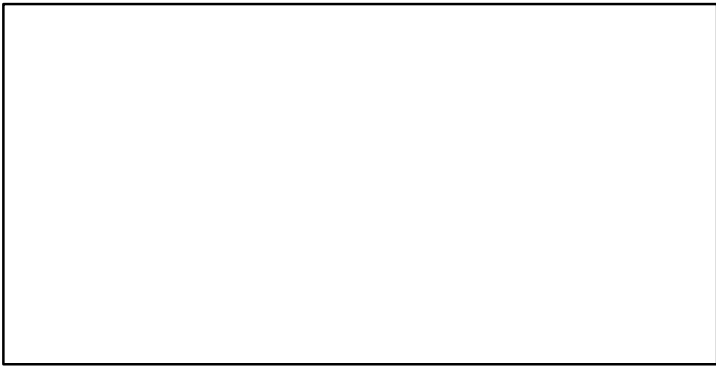
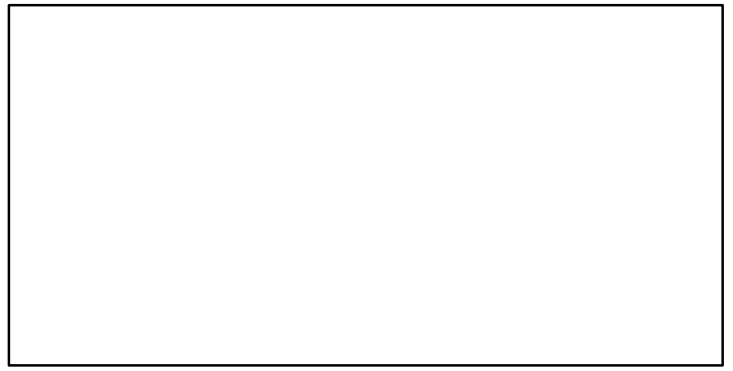
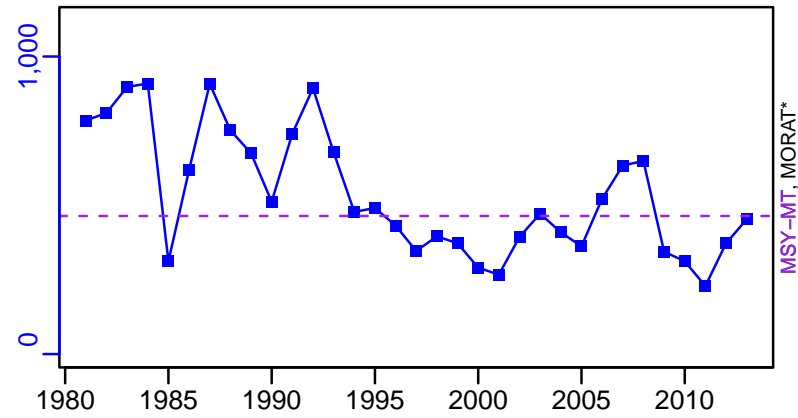
R-E00 (1981-2006-JENSEN)



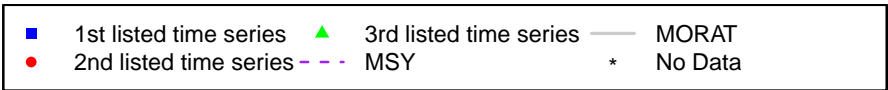
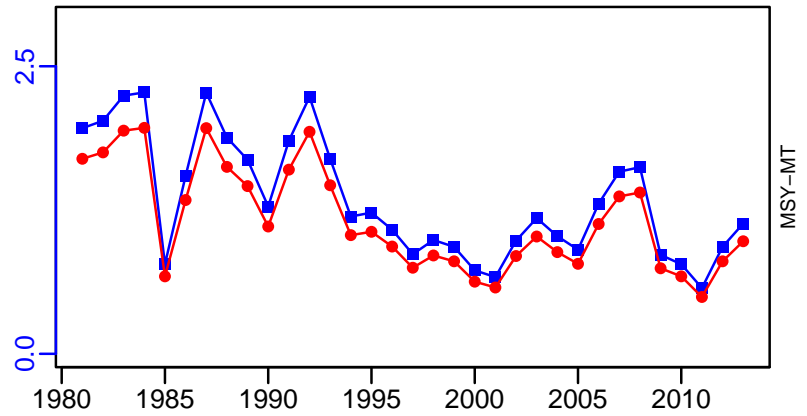
Mutton snapper Southern Atlantic coast and Gulf of Mexico [MUTSNAPSATLCGM]

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

TAC\*, Cpair\*, Cadv\*



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



## Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

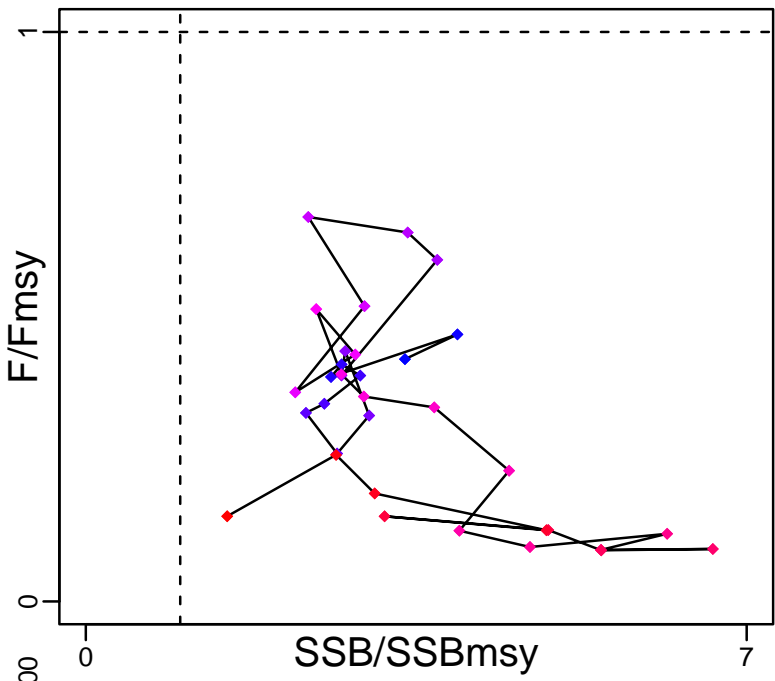
Metadata	
<b>Scientific Name</b>	Farfantepenaeus duorarum
<b>Current Assess ID</b>	SEFSC-PINKSHRIMPGM-1984-2017-SISIMP2021
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011, 2013, 2014, 2015, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2017	10,750
<b>Fmsy</b>	Fmsy-1/yr	2017	1.34
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2015	10,750
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

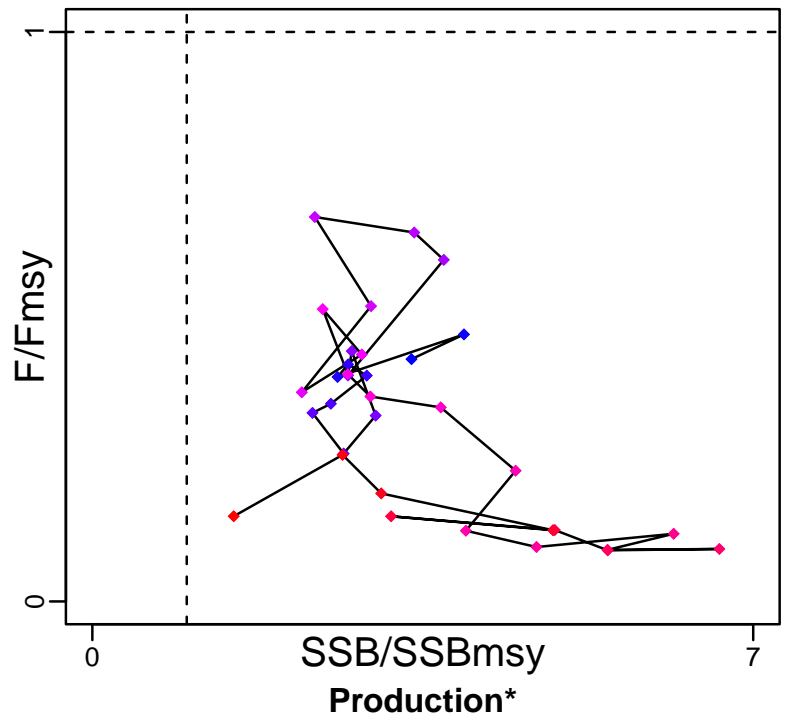
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2017	16,097	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	3,017,759,000	-	-
<b>F</b>	F-1/yr	2017	0.2	-	-
<b>ER</b>	ER-ratio	2011	0.034	-	-
<b>TC</b>	TC-MT	2017	4503		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2017	1.497		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	0.15		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

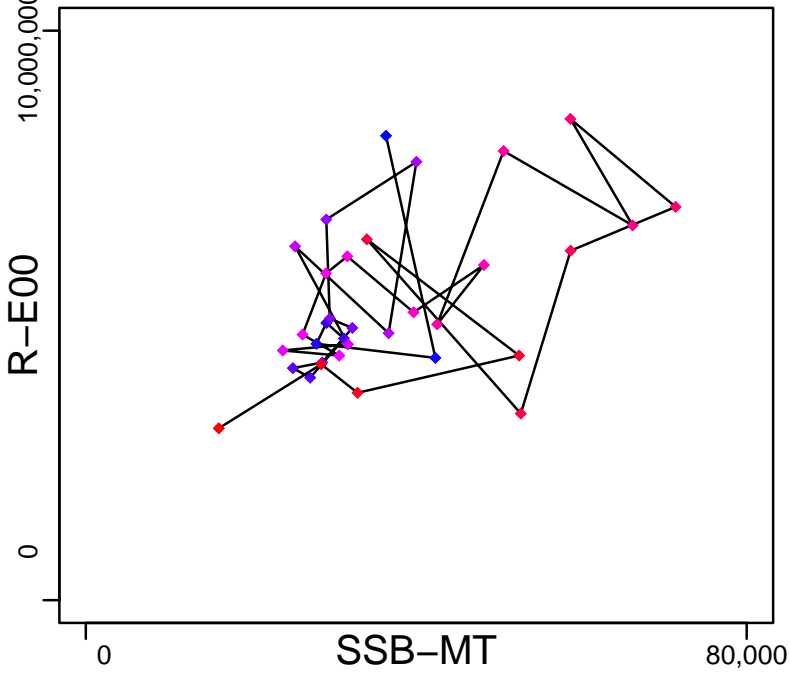
Kobe MSYpref (1984–2017–SISIMP2021)



Kobe MGTpref (1984–2017–SISIMP2021)



Spawner Recruit (1984–2017–SISIMP2021)

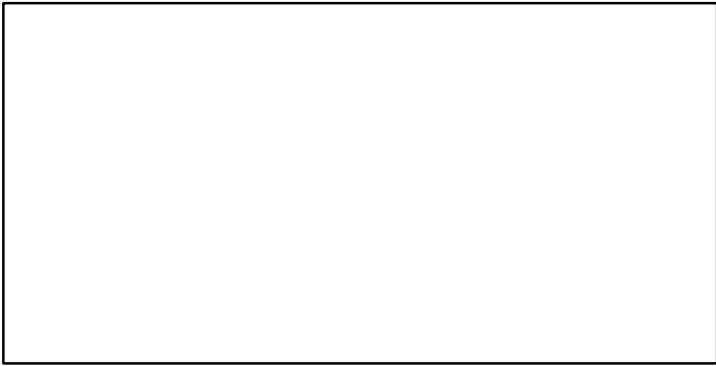


◆ Start Year ◆ End Year \* No Data

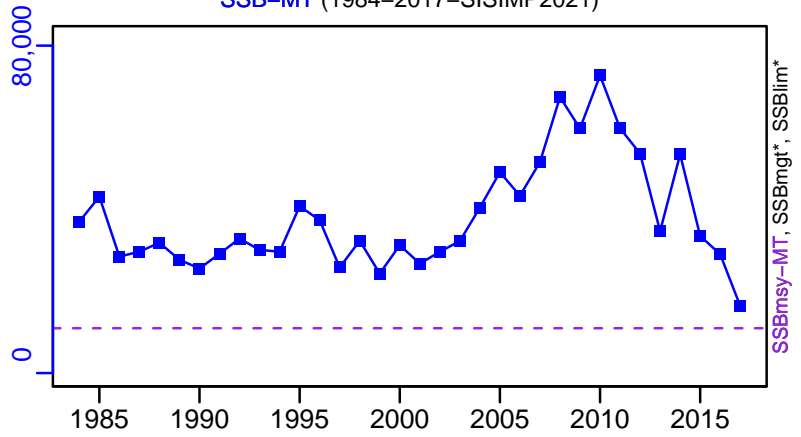


Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

TB\*



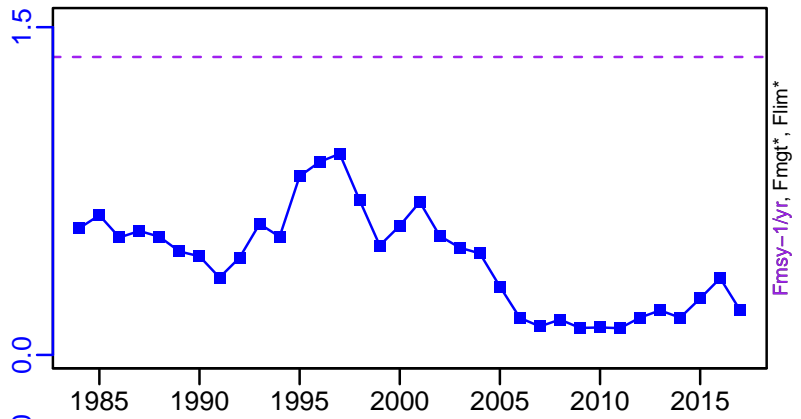
SSB-MT (1984-2017-SISIMP2021)



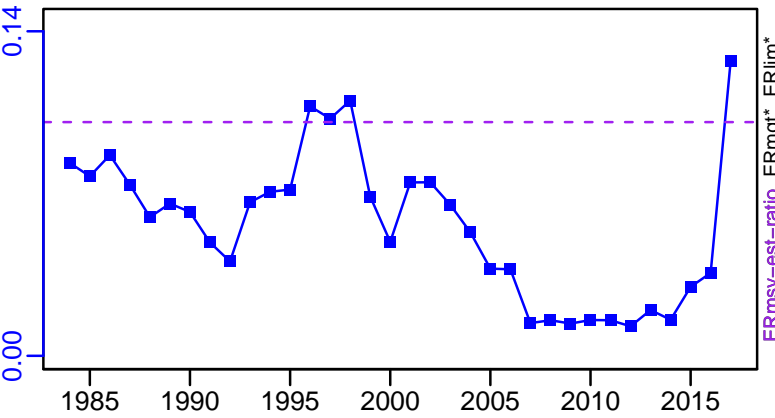
TN \*



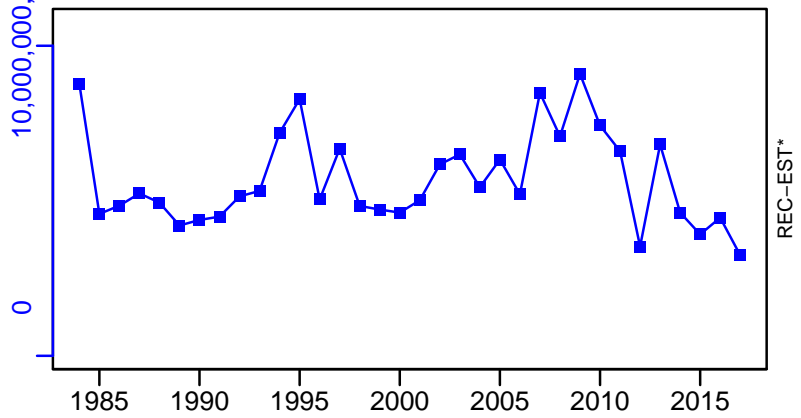
F-1/yr (1984-2017-SISIMP2021)



ER-calc-ratio (1984-2017-SISIMP2021)



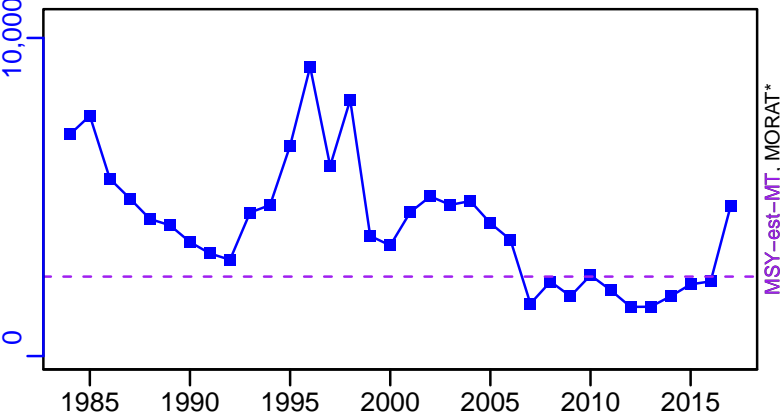
R-E00 (1984-2017-SISIMP2021)



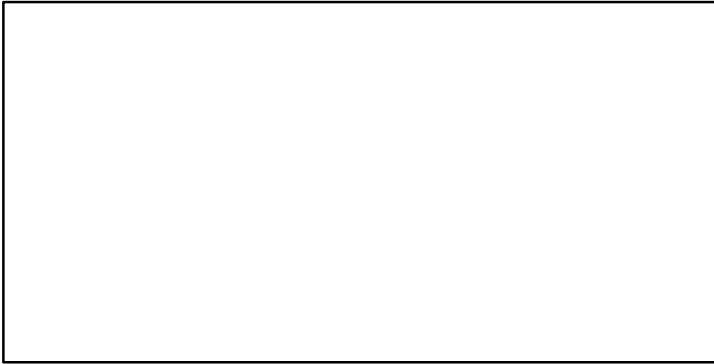
Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

TC-MT, TL\*, RecC\* (1984-2017-SISIMP2021)

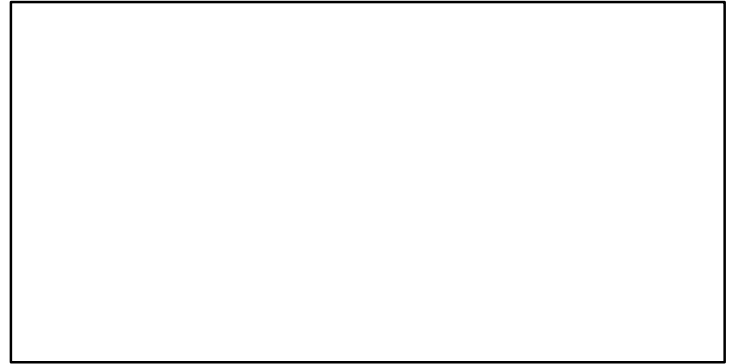
TAC\*, Cpair\*, Cadv\*



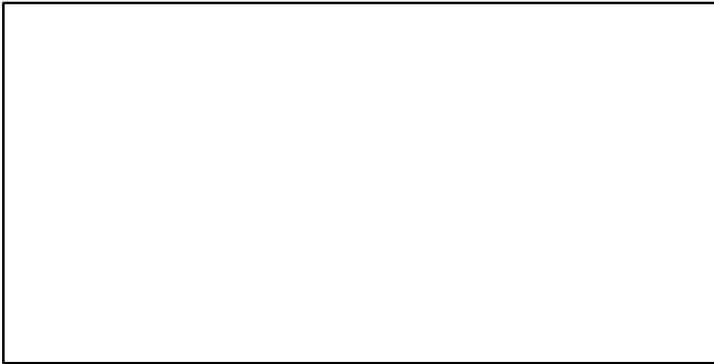
survB\*



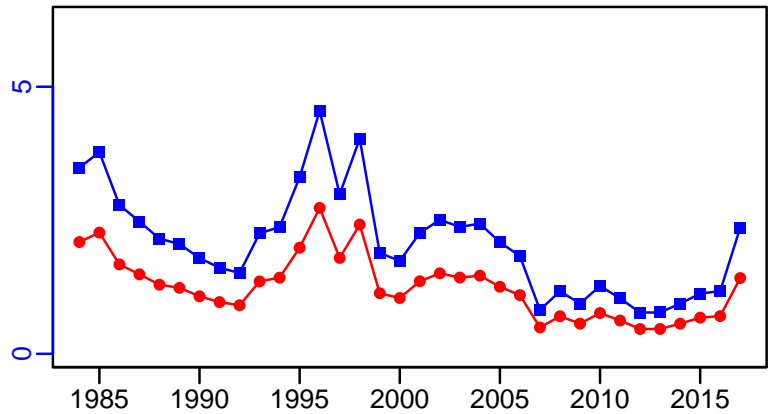
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1984-2017-SISIMP2021)



## Red grouper Gulf of Mexico [RGROUPGM]

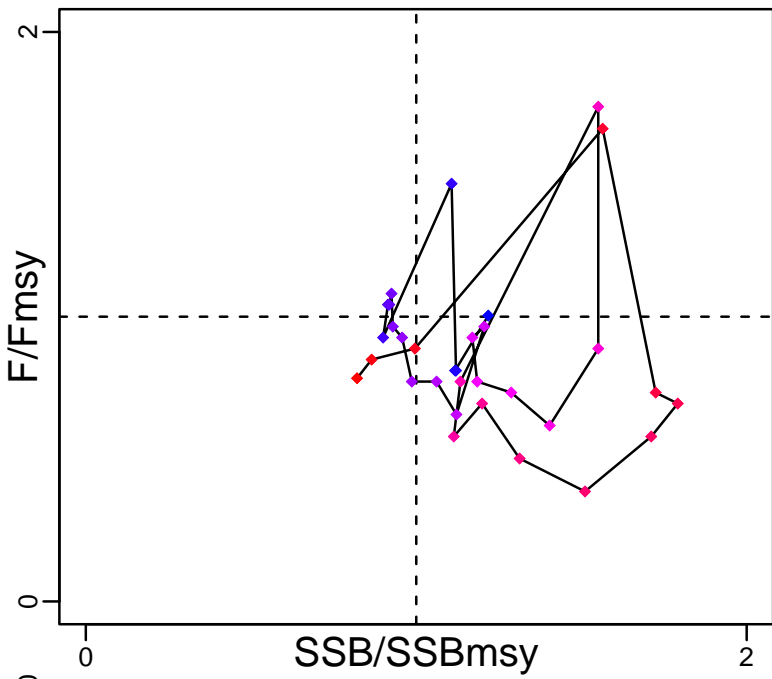
Metadata	
<b>Scientific Name</b>	Epinephelus morio
<b>Current Assess ID</b>	SEFSC-RGROUPGM-1963-2017-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2017,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

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

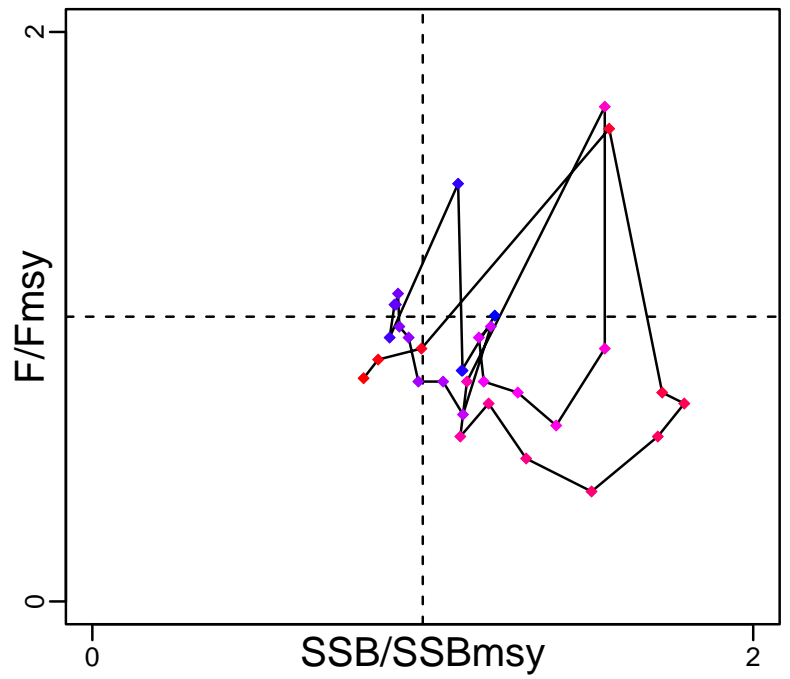
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	46,500	-	0+
<b>SSB</b>	SSB-E00eggs	2017	$6.14 \times 10^8$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	14,200,000	-	0
<b>F</b>	F-1/yr	2017	0.203	-	-
<b>ER</b>	ER-ratio	2013	0.126	-	-
<b>TC</b>	TC-MT	2017	1510		
<b>TL</b>	-	-	-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

Red grouper Gulf of Mexico [RGROUPGM]

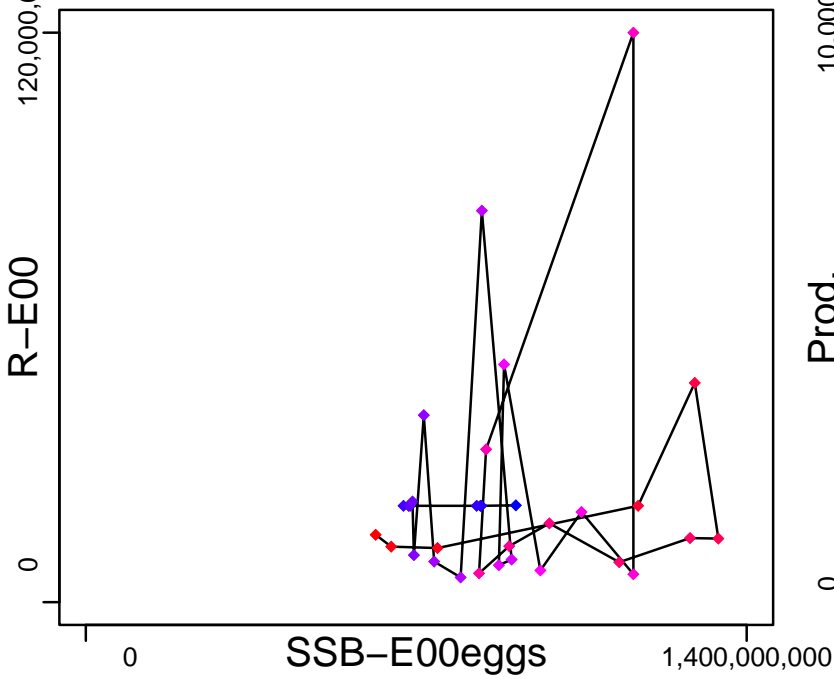
Kobe MSYpref (1963–2017–SISIMP2021–2)



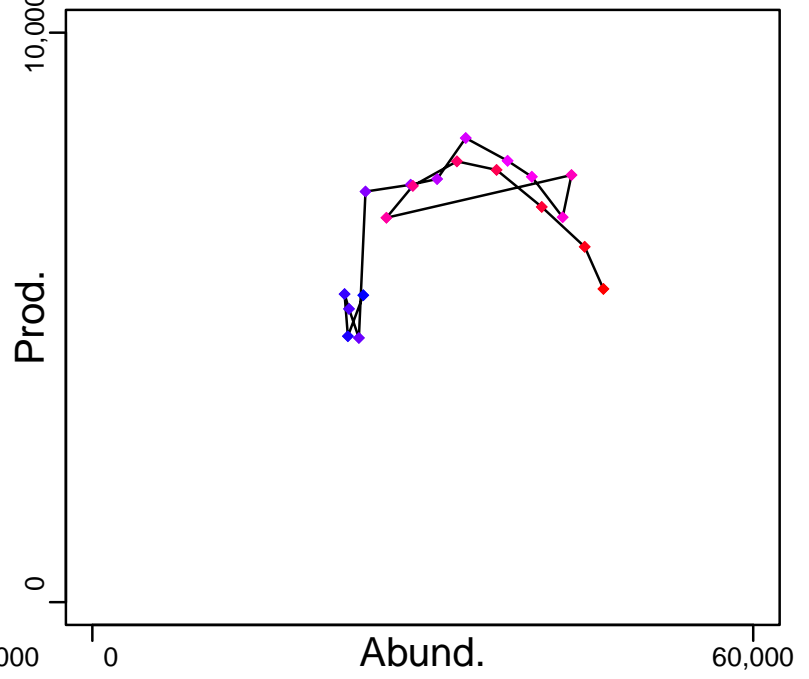
Kobe MGTpref (1963–2017–SISIMP2021–2)



Spawner Recruit (1963–2017–SISIMP2021–2)



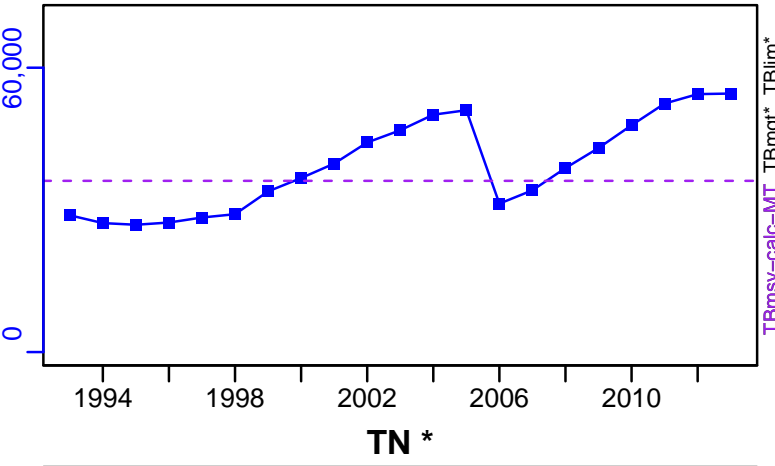
Production (1993–2013–SISIMP2016)



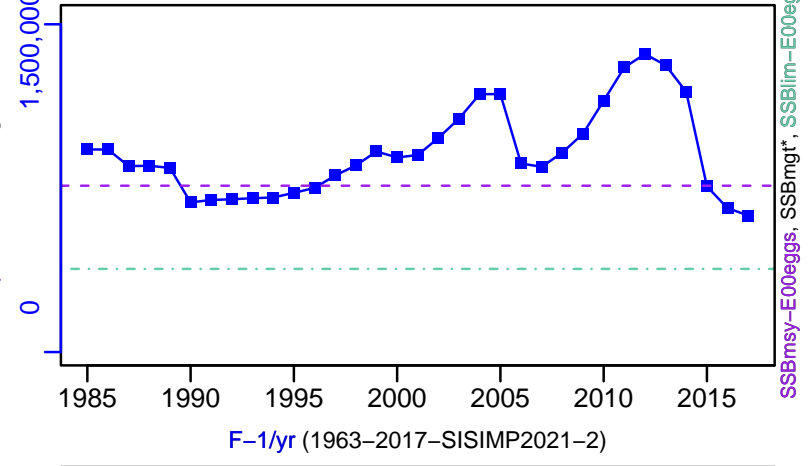
◆ Start Year ◆ End Year \* No Data

Red grouper Gulf of Mexico [RGROUPGM]

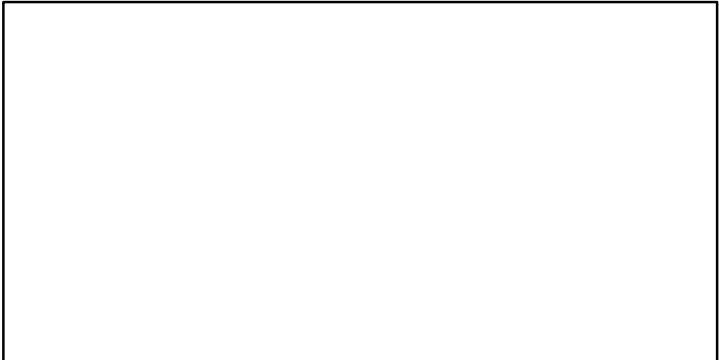
TB-MT (1993-2013-SISIMP2016)



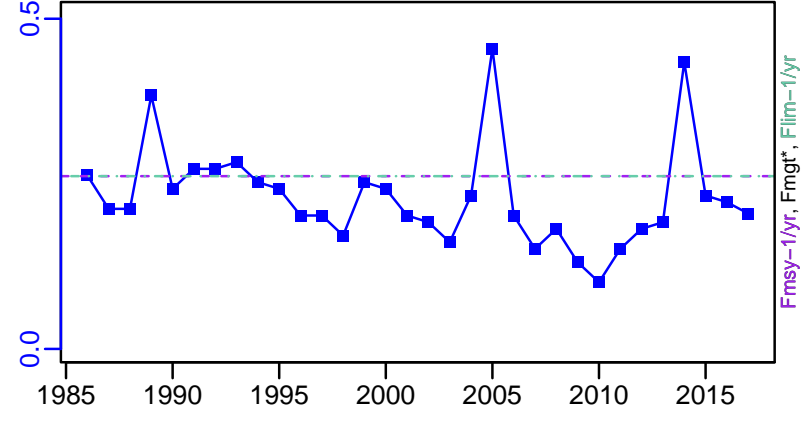
SSB-E00eggs (1963-2017-SISIMP2021-2)



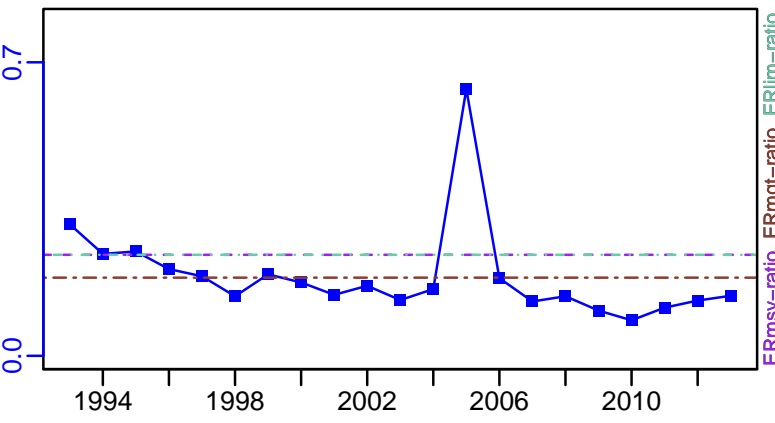
TN \*



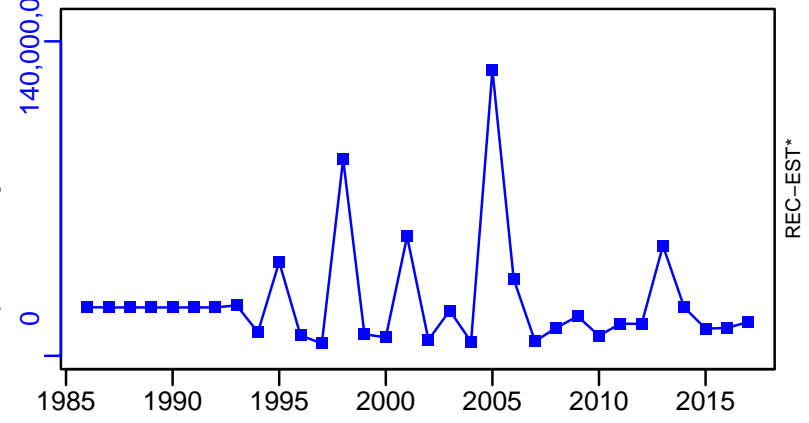
F-1/yr (1963-2017-SISIMP2021-2)



ER-ratio (1993-2013-SISIMP2016)



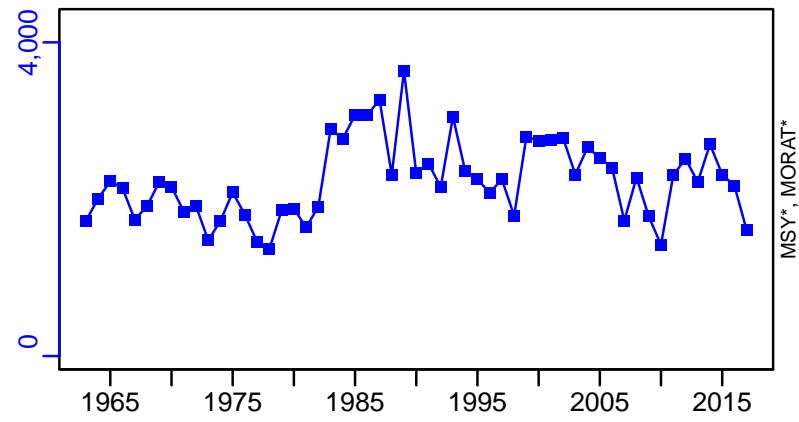
R-E00 (1963-2017-SISIMP2021-2)



Red grouper Gulf of Mexico [RGROUPGM]

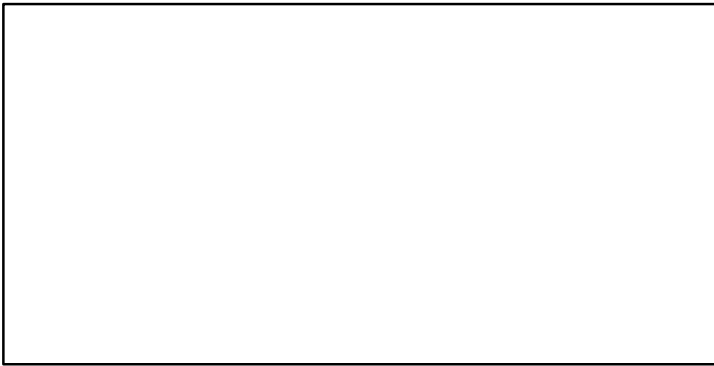
TC-MT, TL\*, RecC\* (1963-2017-SISIMP2021-2)

TAC\*, Cpair\*, Cadv\*



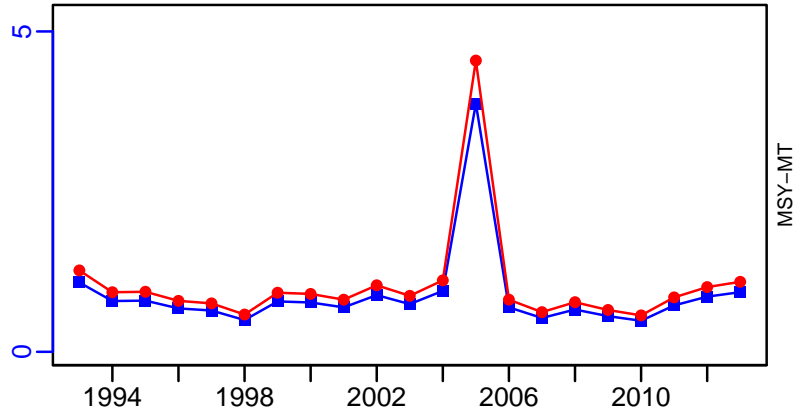
survB\*

CPUE\*



EFFORT\*

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



## Red grouper South Atlantic [RGROUPSATL]

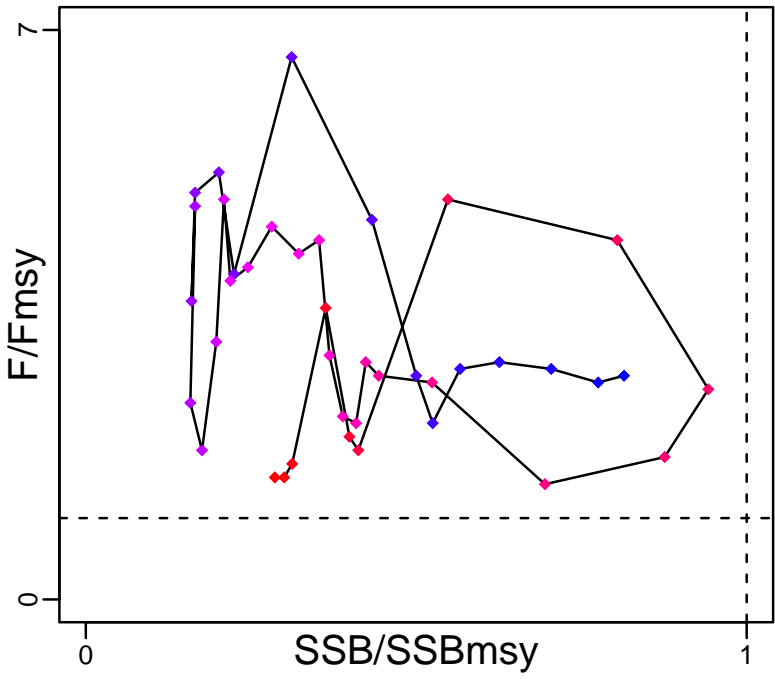
Metadata	
<b>Scientific Name</b>	Epinephelus morio
<b>Current Assess ID</b>	SEFSC-RGROUPSATL-1975-2015-SISIMP2021
<b>Area</b>	South Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2015,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

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

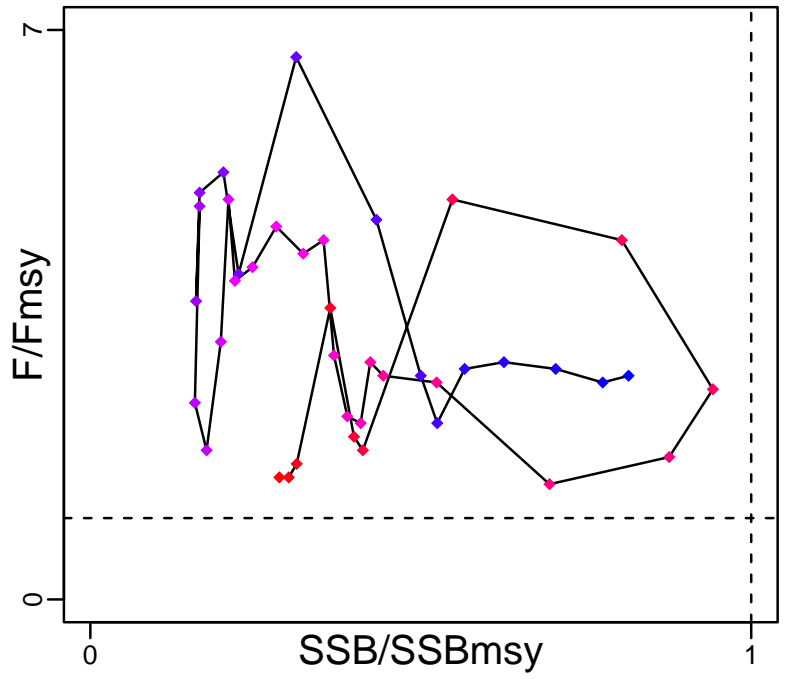
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2009	2760	-	-
<b>SSB</b>	SSB-MT	2015	911	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	151,485	-	1
<b>F</b>	F-1/yr	2015	0.18	-	-
<b>ER</b>	ER-calc-ratio	2009	0.222	-	-
<b>TC</b>	TC-MT	2009	665		
<b>TL</b>	TL-MT	2009	647		
<b>TB/TBmsy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

Red grouper South Atlantic [RGROUPSATL]

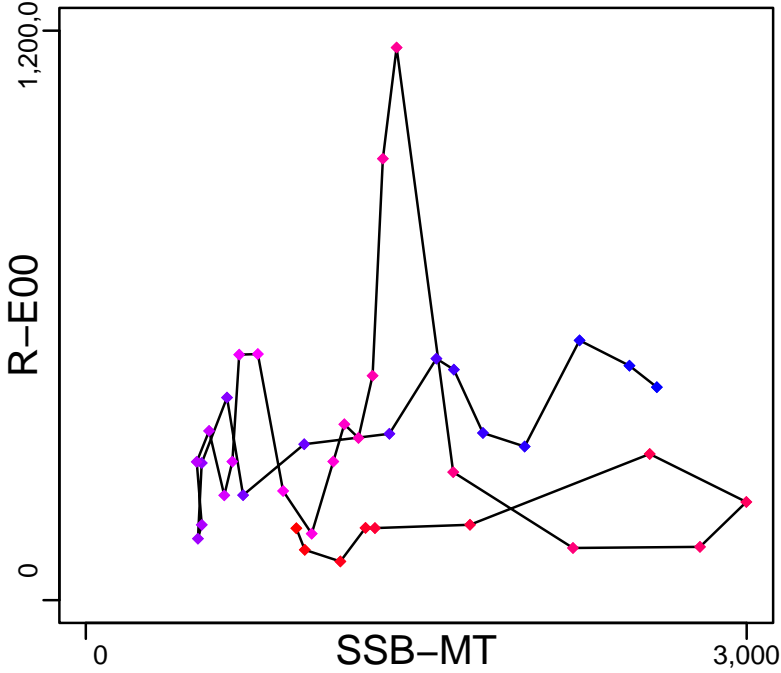
Kobe MSYpref (1975–2015–SISIMP2021)



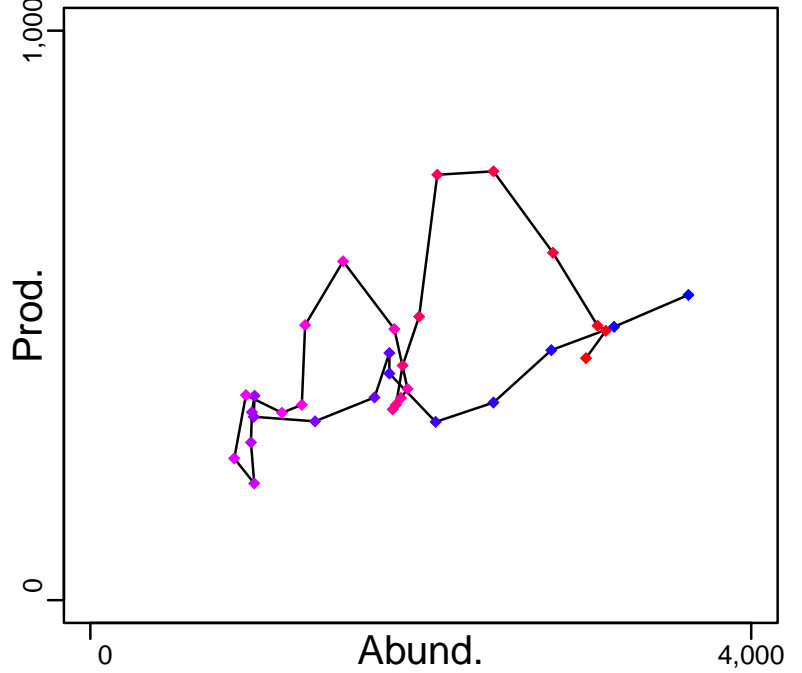
Kobe MGTpref (1975–2015–SISIMP2021)



Spawner Recruit (1975–2015–SISIMP2021)



Production (1976–2009–HIVELY)



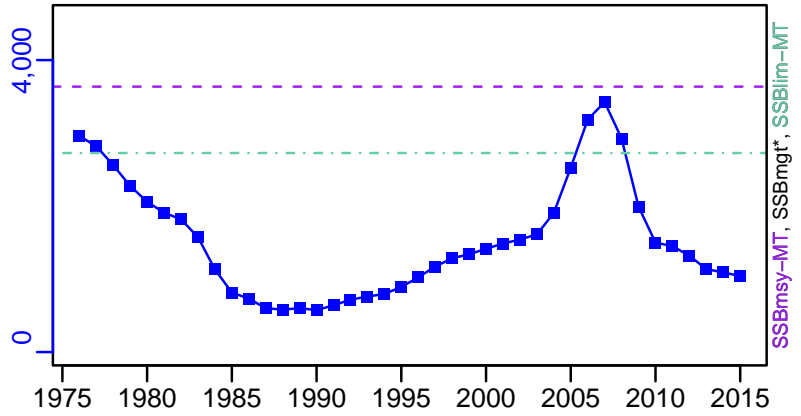
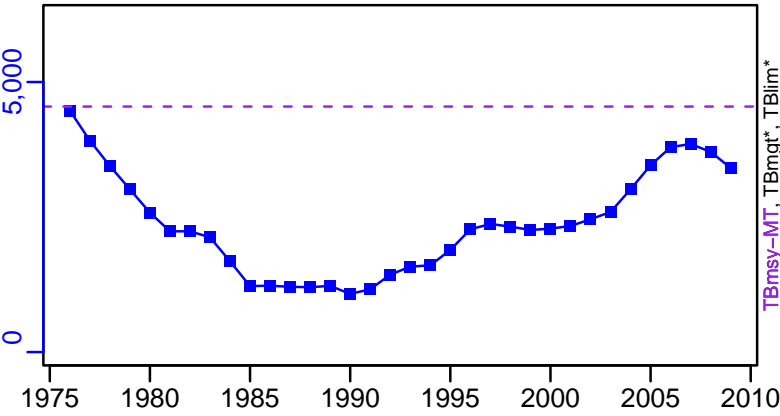
◆ Start Year ◆ End Year \* No Data



### Red grouper South Atlantic [RGROUPSATL]

TB-MT (1976-2009-HIVELY)

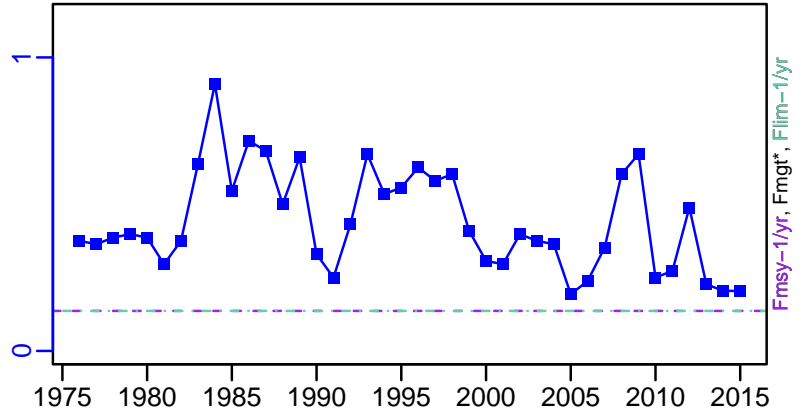
SSB-MT (1975-2015-SISIMP2021)



TN \*

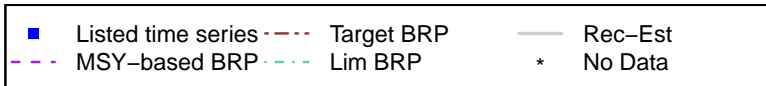
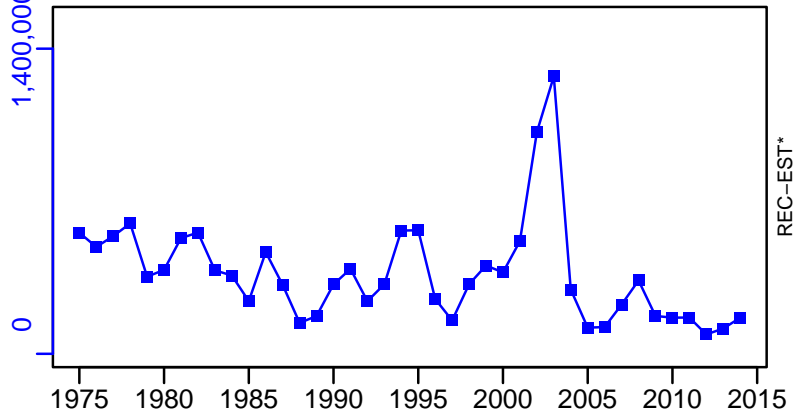
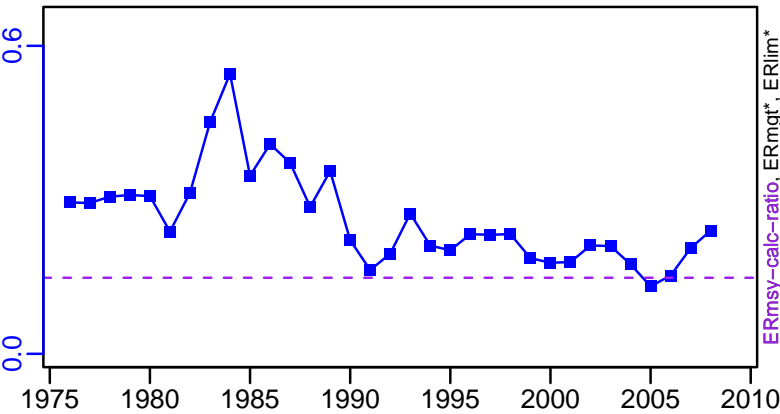


F-1/yr (1975-2015-SISIMP2021)



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

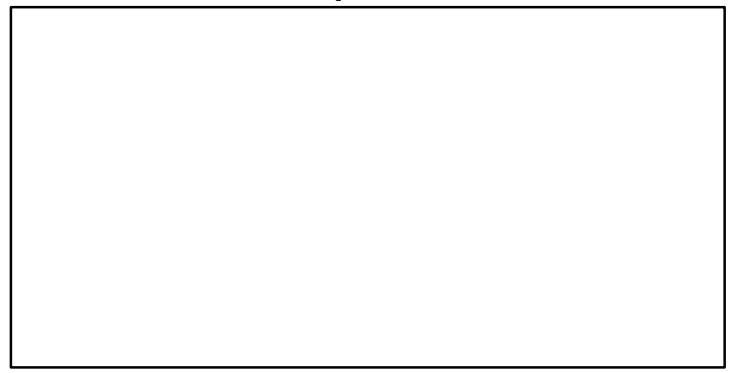
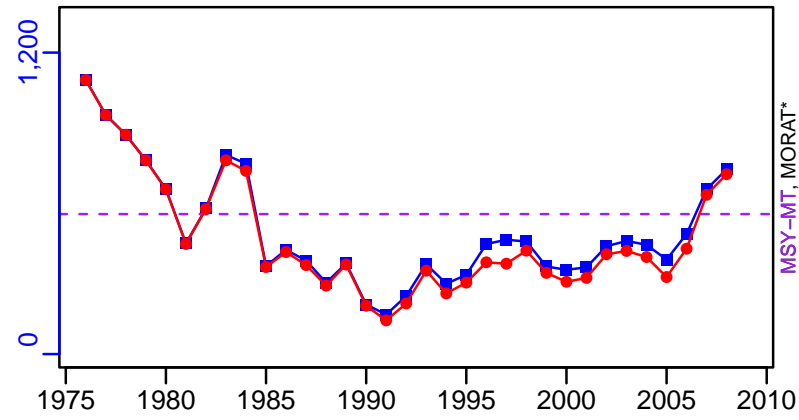
R-E00 (1975-2015-SISIMP2021)



Red grouper South Atlantic [RGROUPSATL]

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

TAC\*, Cpair\*, Cadv\*



survB\*



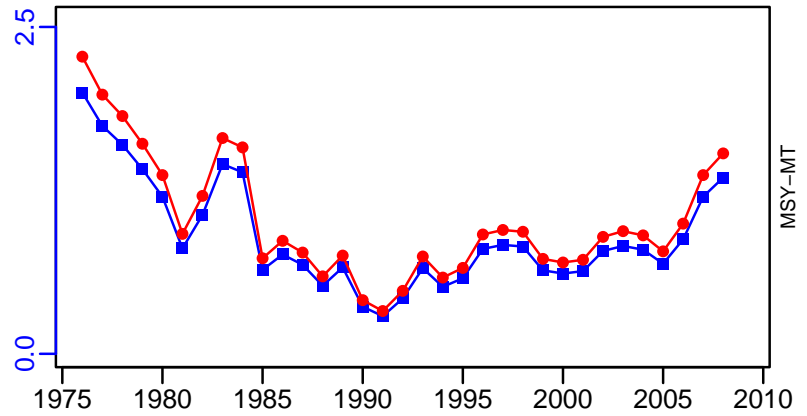
CPUE\*



EFFORT\*



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



## Red porgy Southern Atlantic coast [RPORGYSATLC]

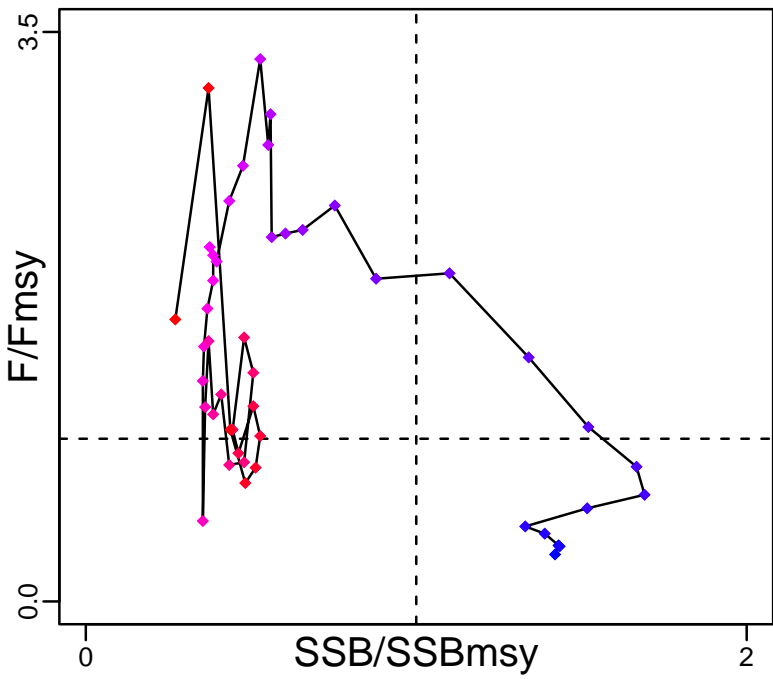
Metadata	
<b>Scientific Name</b>	Pagrus pagrus
<b>Current Assess ID</b>	SEFSC-RPORGYSATLC-1972-2017-SISIMP2021-2
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM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

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

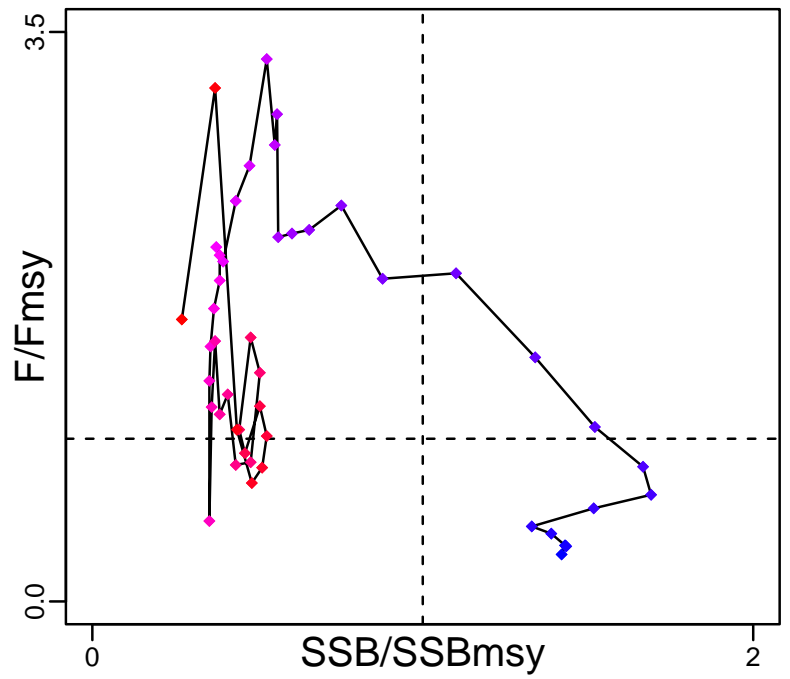
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2012	2020	-	-
<b>SSB</b>	SSB-MT	2017	780	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	345,000	-	1
<b>F</b>	F-1/yr	2017	0.312	-	-
<b>ER</b>	ER-calc-ratio	2012	0.077	-	-
<b>TC</b>	TC-MT	2017	115		
<b>TL</b>	TL-MT	2012	155		
<b>TB/TBmsy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

Red porgy Southern Atlantic coast [RPORGYSATLC]

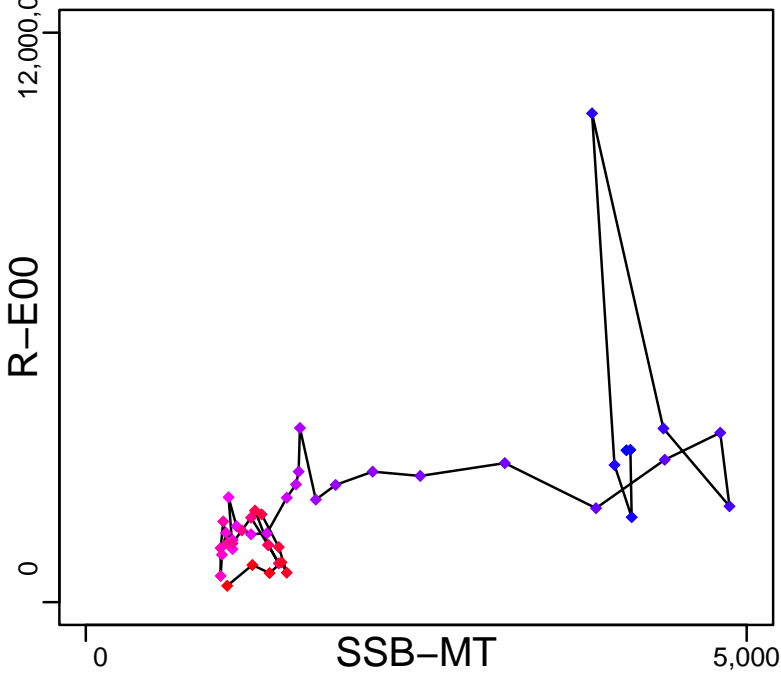
Kobe MSYpref (1972–2017–SISIMP2021–2)



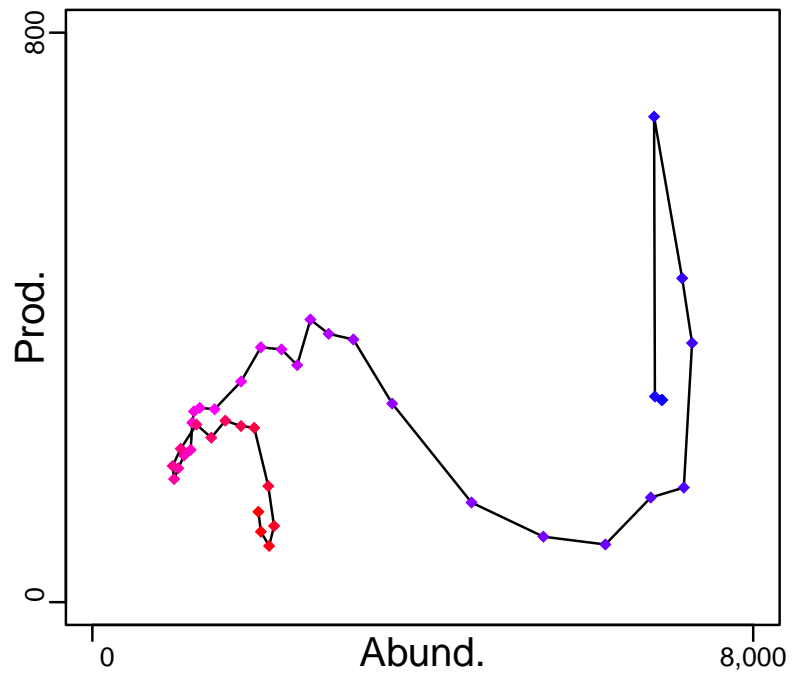
Kobe MGTpref (1972–2017–SISIMP2021–2)



Spawner Recruit (1972–2017–SISIMP2021–2)



Production (1972–2017–SISIMP2021–2)

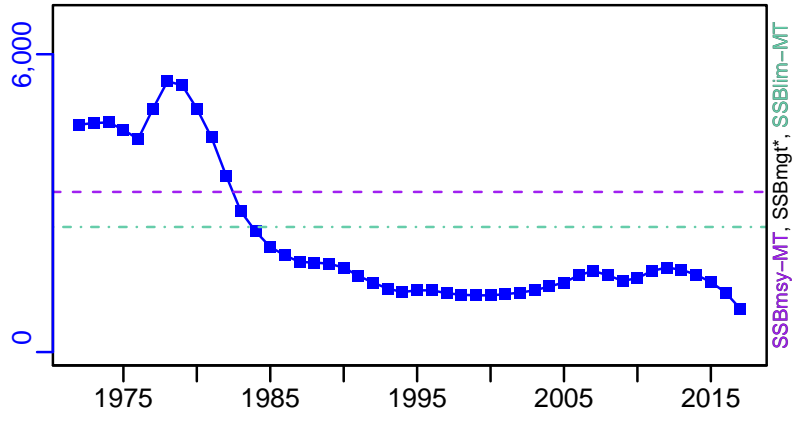
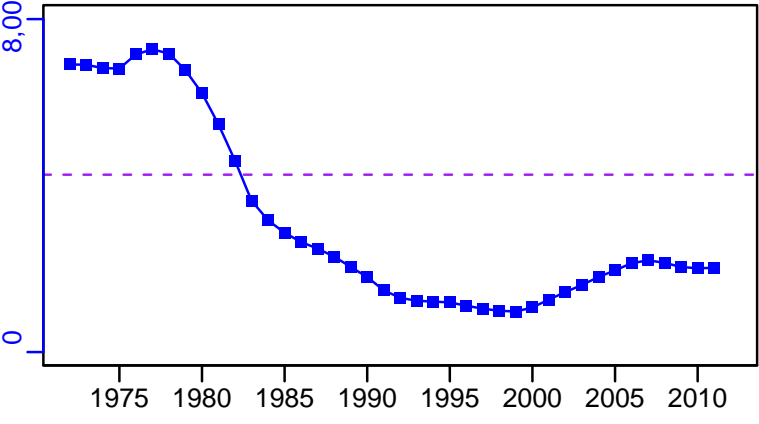


◆ Start Year ◆ End Year \* No Data

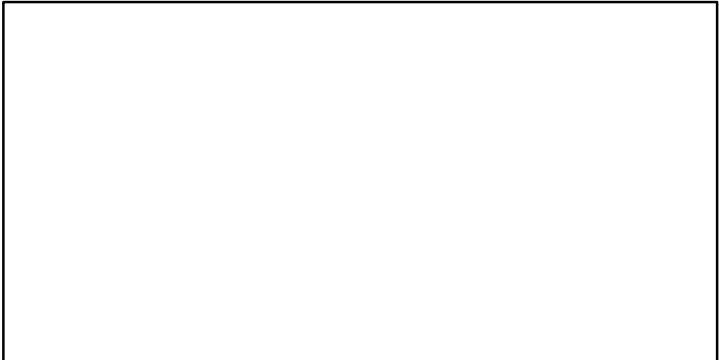
Red porgy Southern Atlantic coast [RPORGYSATLC]

TB-MT (1972-2012-HIVELY)

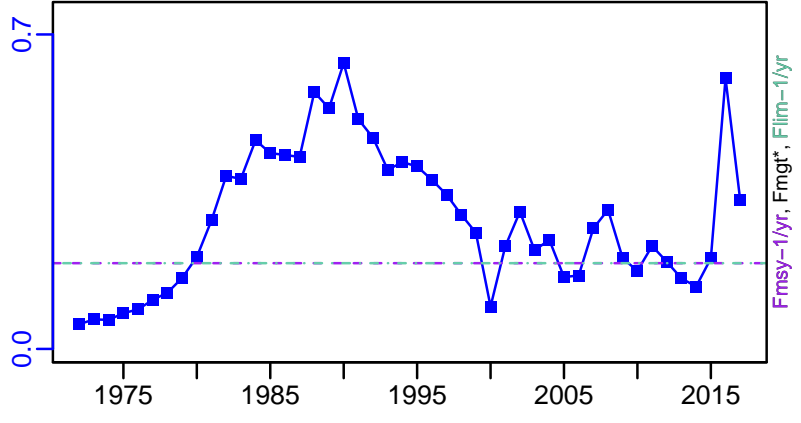
SSB-MT (1972-2017-SISIMP2021-2)



TN \*

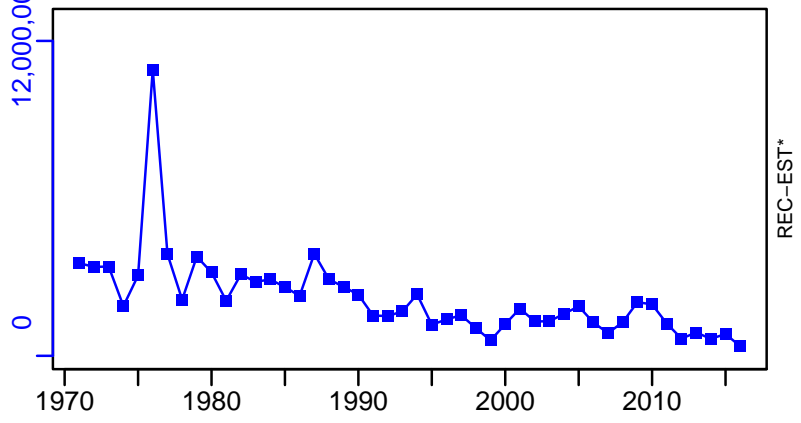
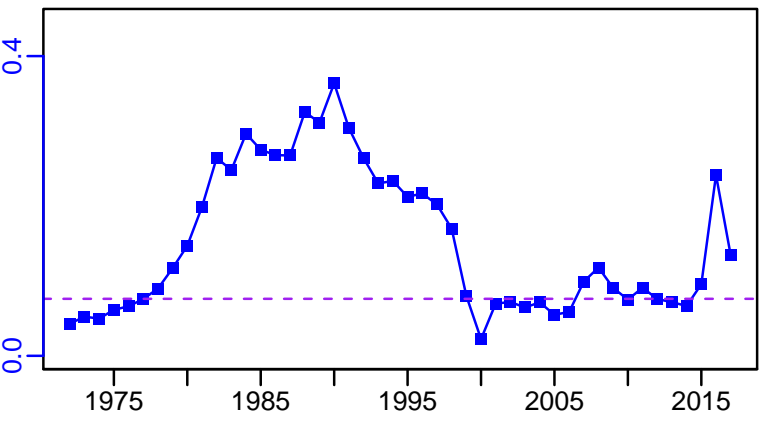


F-1/yr (1972-2017-SISIMP2021-2)



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

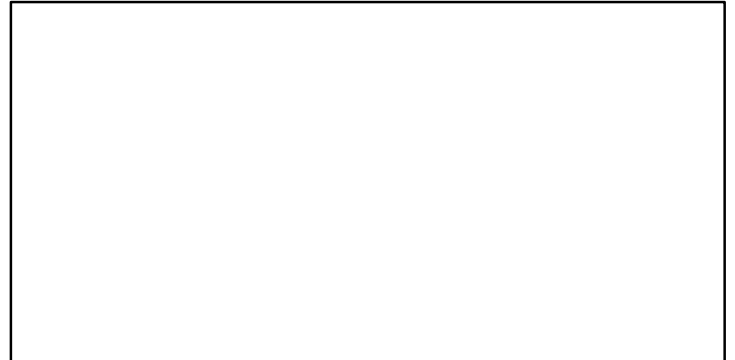
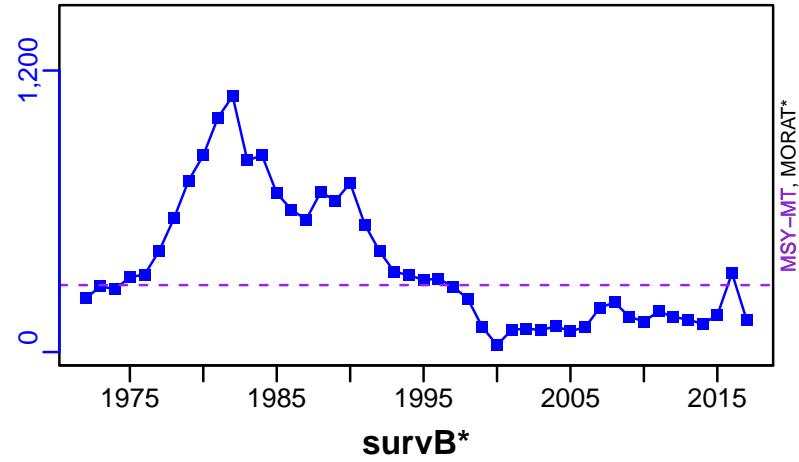
R-E00 (1972-2017-SISIMP2021-2)



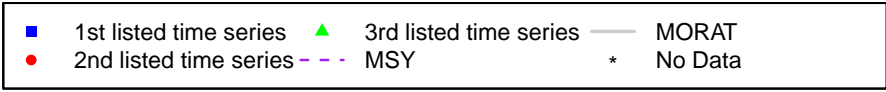
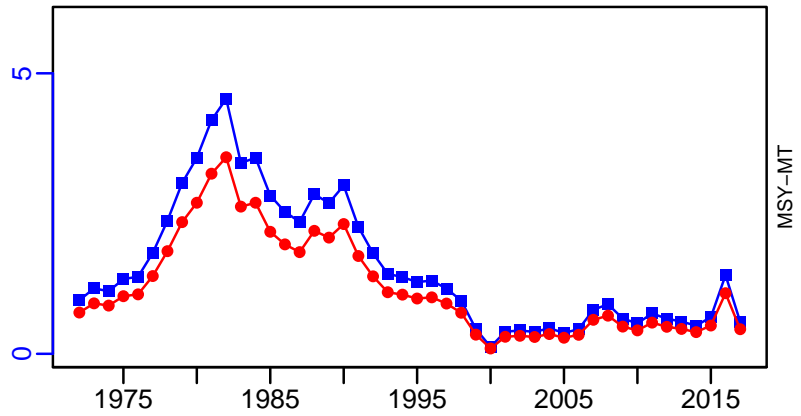
Red porgy Southern Atlantic coast [RPORGYSATLC]

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

TAC\*, Cpair\*, Cadv\*



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



## Royal red shrimp Gulf of Mexico [RRSHRIMPGM]

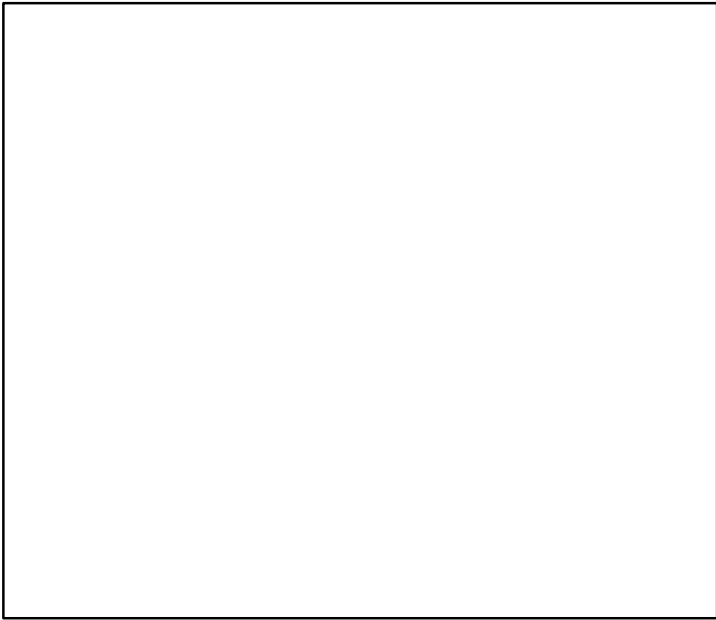
Metadata	
<b>Scientific Name</b>	Pleoticus robustus
<b>Current Assess ID</b>	SEFSC-RRSHRIMPGM-1994-2019-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2019

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

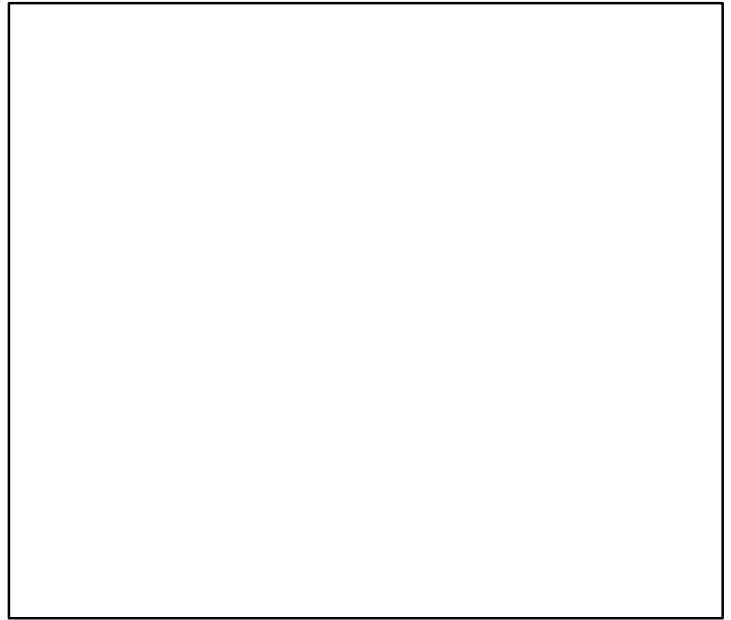
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	54		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Royal red shrimp Gulf of Mexico [RRSHRIMPGM]

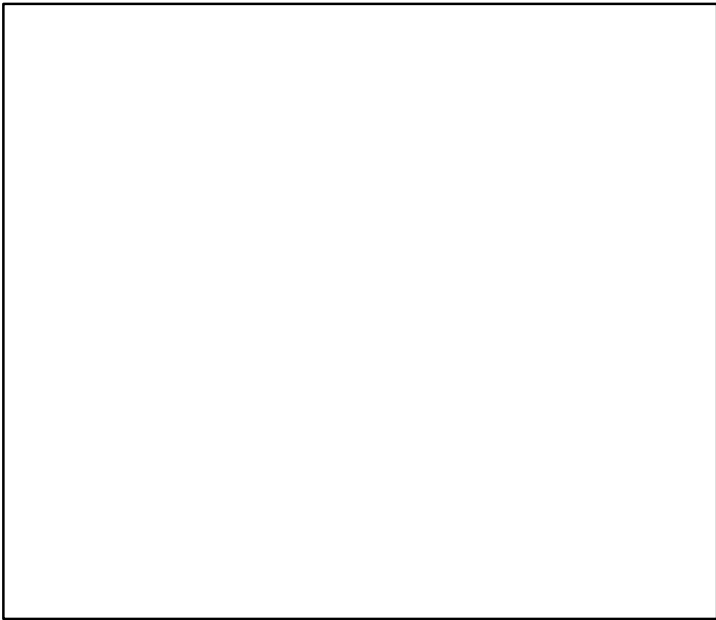
**Kobe MSY\***



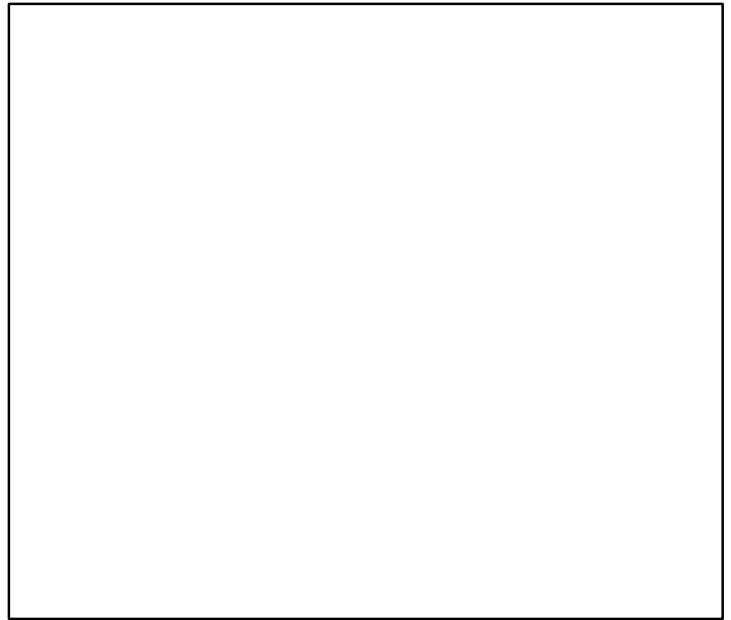
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

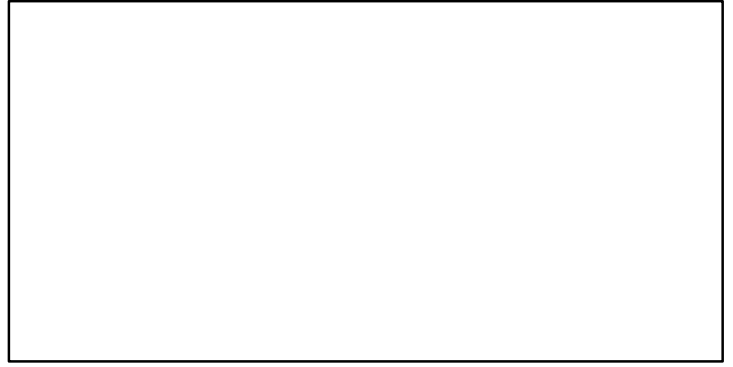


Royal red shrimp Gulf of Mexico [RRSHRIMPGM]

TB\*



SSB\*



TN \*



F\*



ER\*



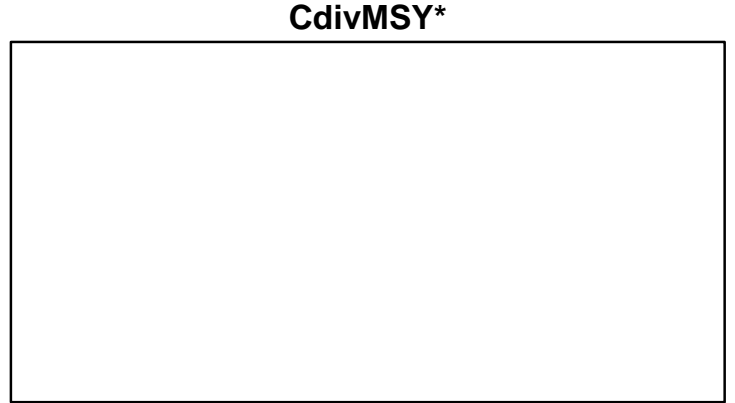
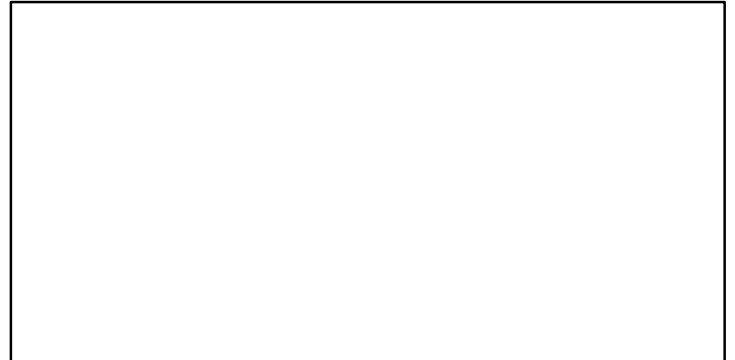
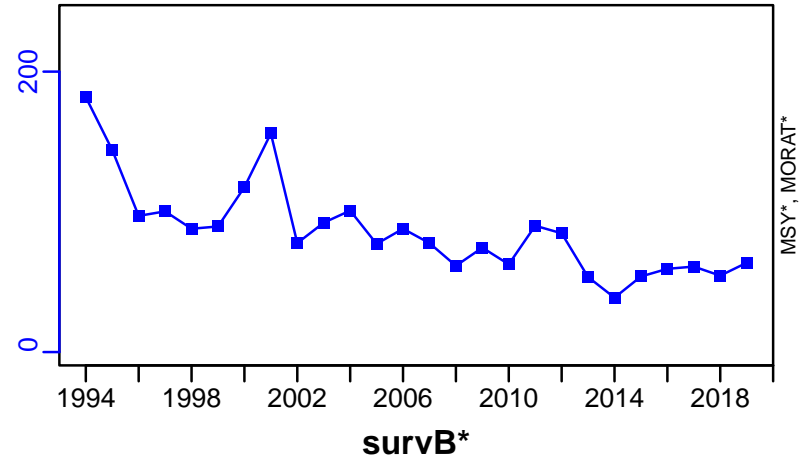
Recruits\*



Royal red shrimp Gulf of Mexico [RRSHRIMPGM]

TC-MT, TL\*, RecC\* (1994-2019-SISIMP2021-2)

TAC\*, Cpair\*, Cadv\*



## Red snapper Gulf of Mexico [RSNAPGM]

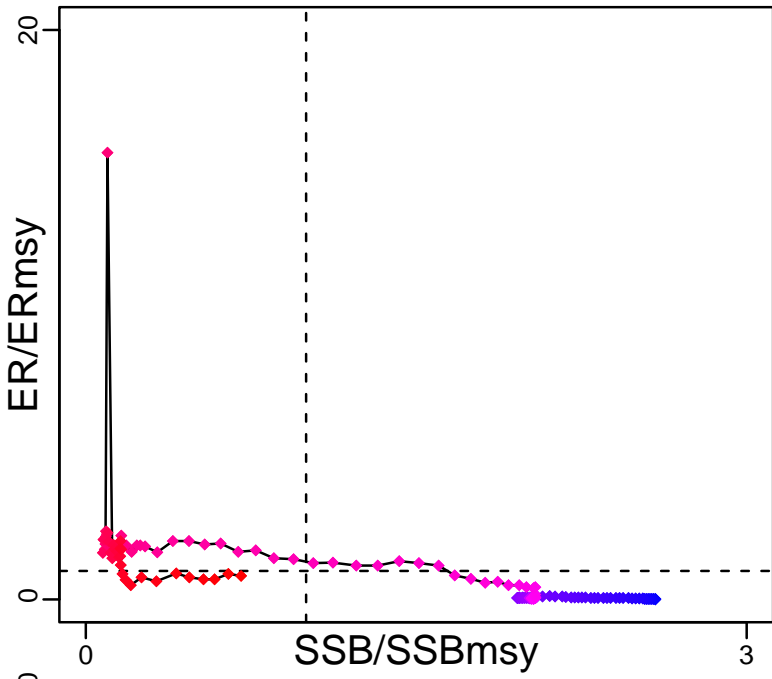
Metadata	
<b>Scientific Name</b>	Lutjanus campechanus
<b>Current Assess ID</b>	SEFSC-RSNAPGM-1872-2016-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011,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

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

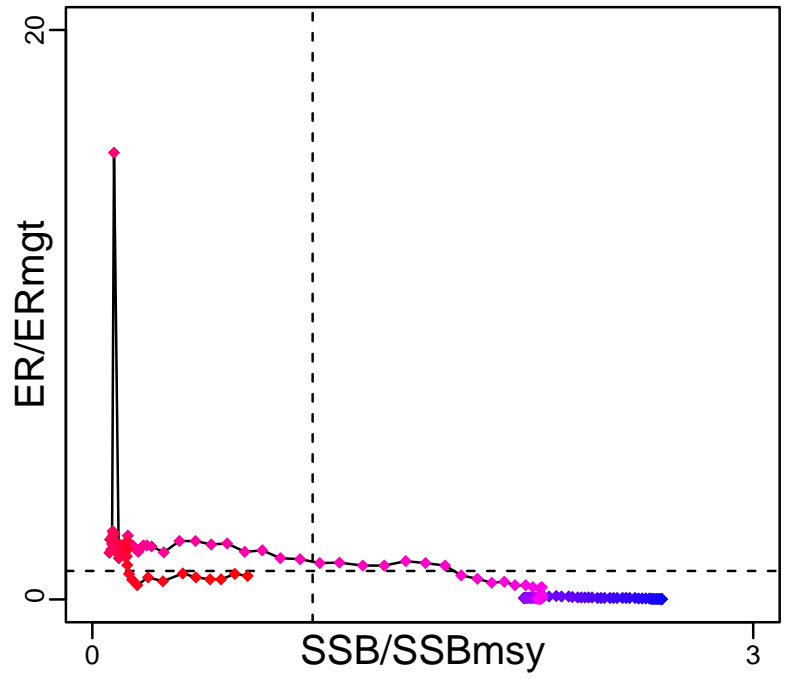
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	64,100	-	0+
<b>SSB</b>	SSB-E00eggs	2016	$8.67 \times 10^{14}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	138,792,000	-	0
<b>F</b>	F-1/yr	2011	0.062	-	-
<b>ER</b>	ER-ratio	2016	0.048	-	-
<b>TC</b>	TC-MT	2016	3050		
<b>TL</b>	TL-MT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

Red snapper Gulf of Mexico [RSNAPGM]

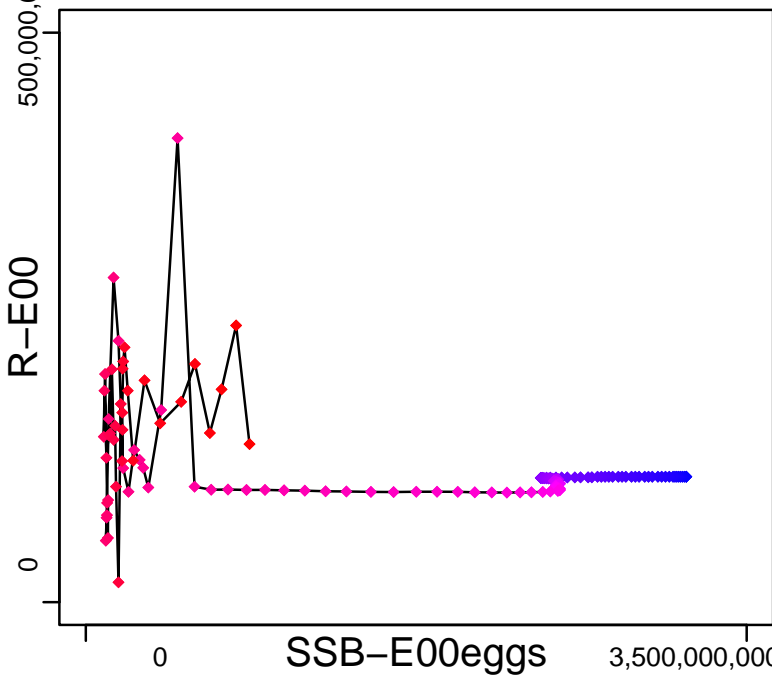
Kobe MSYpref (1872–2016–SISIMP2021)



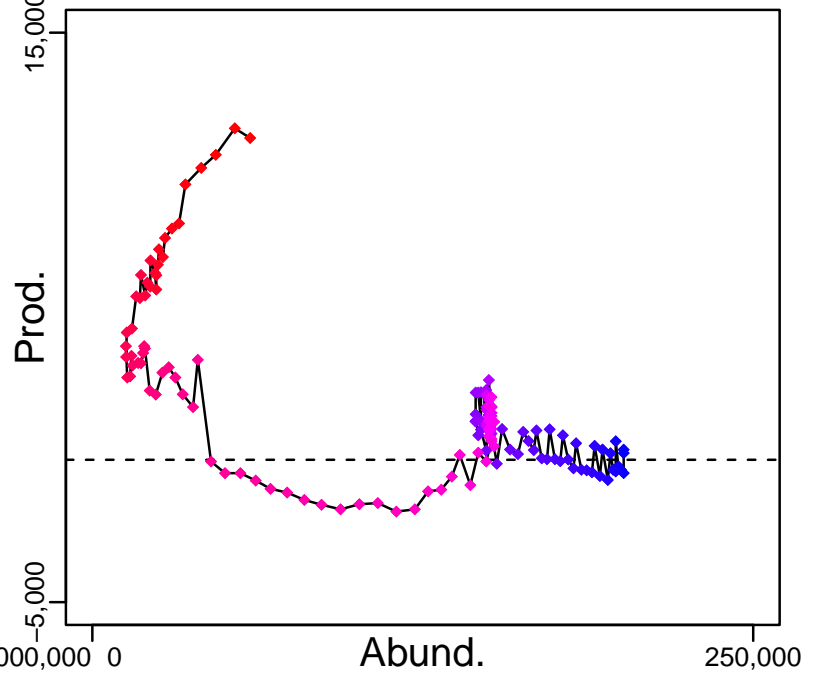
Kobe MGTpref (1872–2016–SISIMP2021)



Spawner Recruit (1872–2016–SISIMP2021)



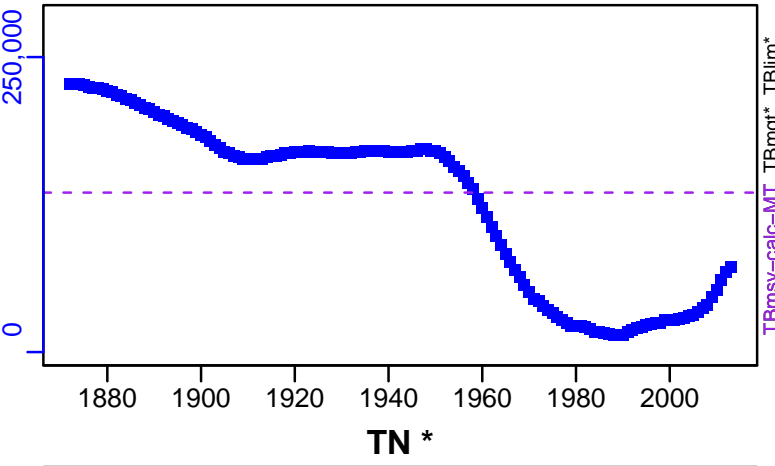
Production (1872–2013–SISIMP2016)



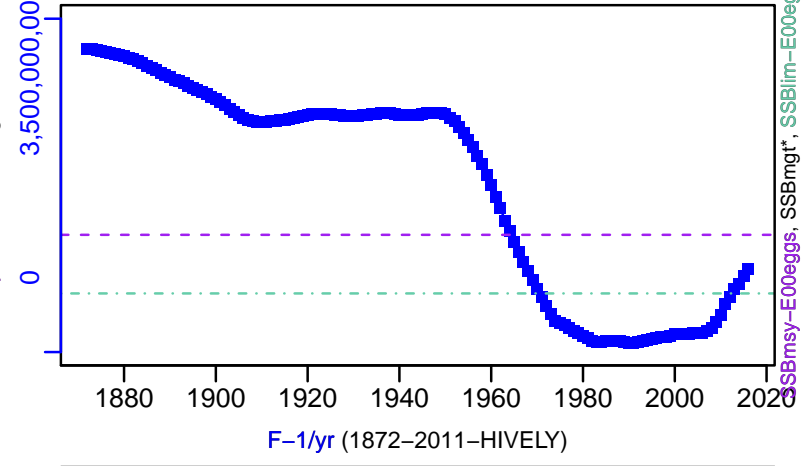
◆ Start Year ◆ End Year \* No Data

### Red snapper Gulf of Mexico [RSNAPGM]

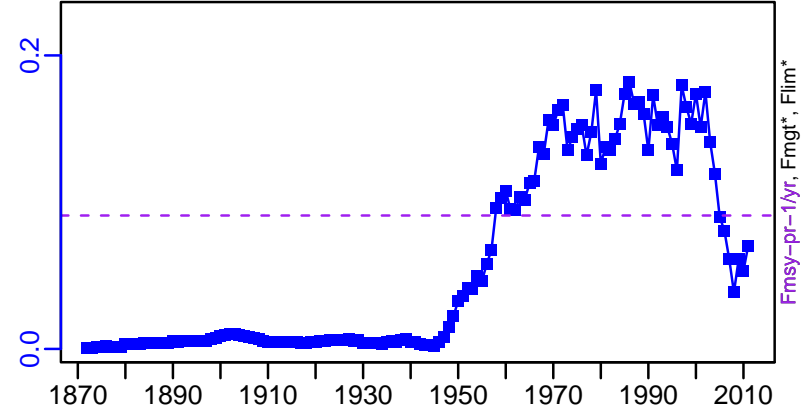
TB-MT (1872-2013-SISIMP2016)



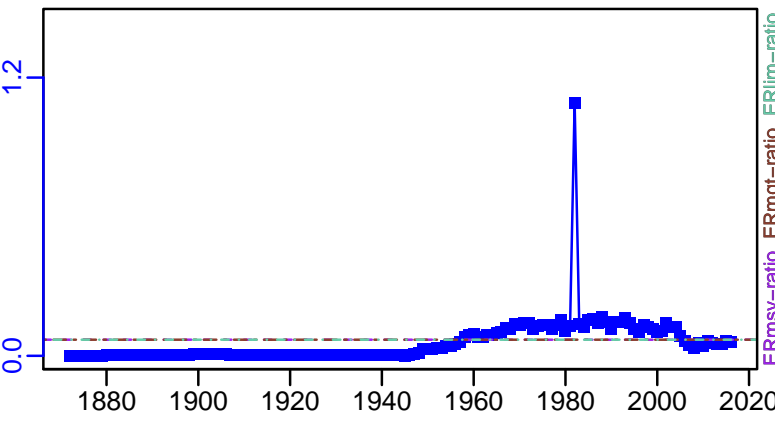
SSB-E00eggs (1872-2016-SISIMP2021)



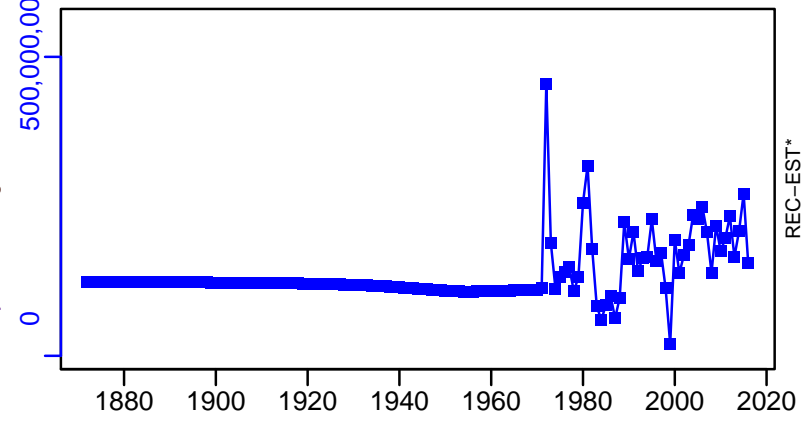
F-1/yr (1872-2011-HIVELY)



ER-ratio (1872-2016-SISIMP2021)



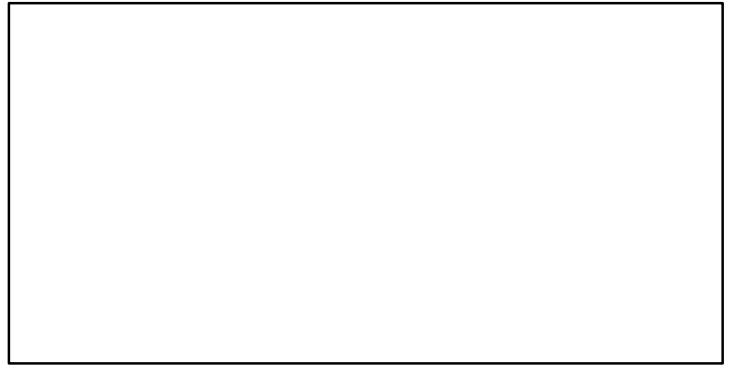
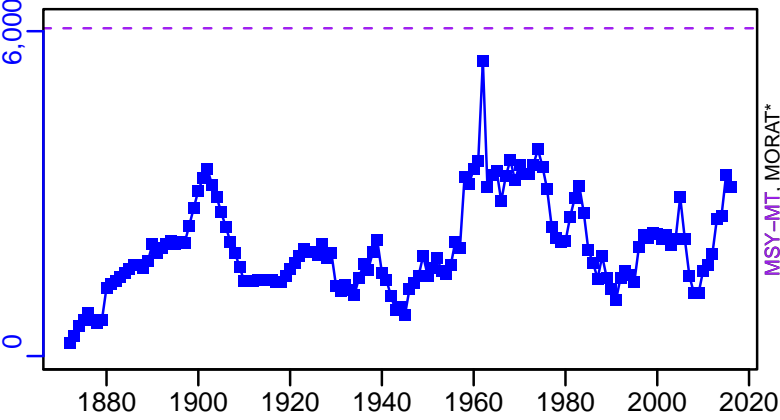
R-E00 (1872-2016-SISIMP2021)



Red snapper Gulf of Mexico [RSNAPGM]

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

TAC\*, Cpair\*, Cadv\*



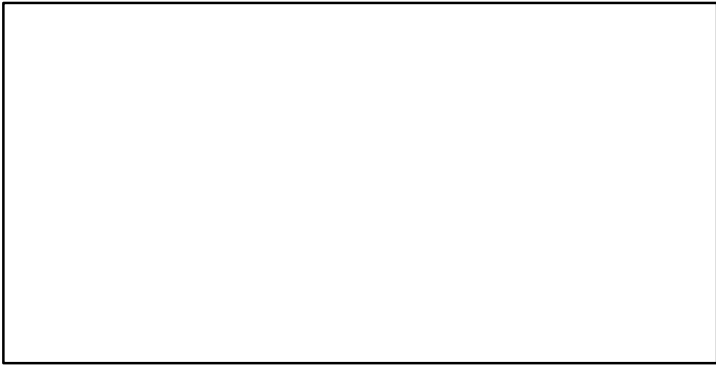
survB\*



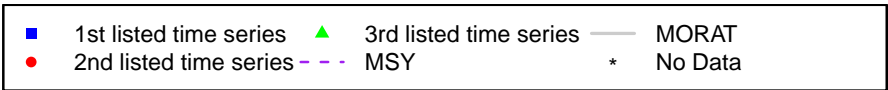
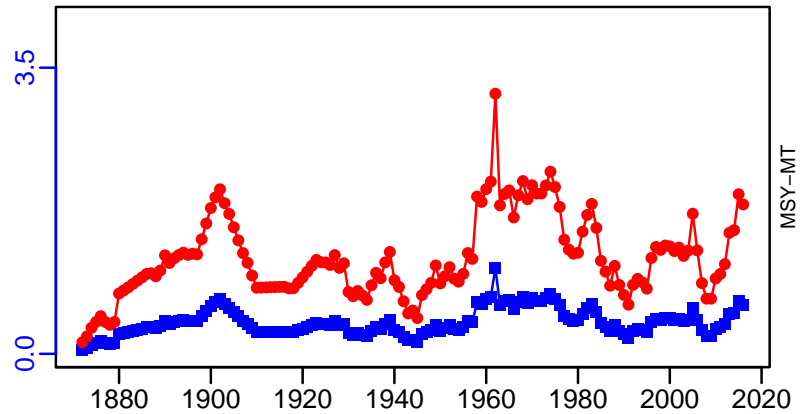
CPUE\*



EFFORT\*



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



## Red snapper Southern Atlantic coast [RSNAPSATLC]

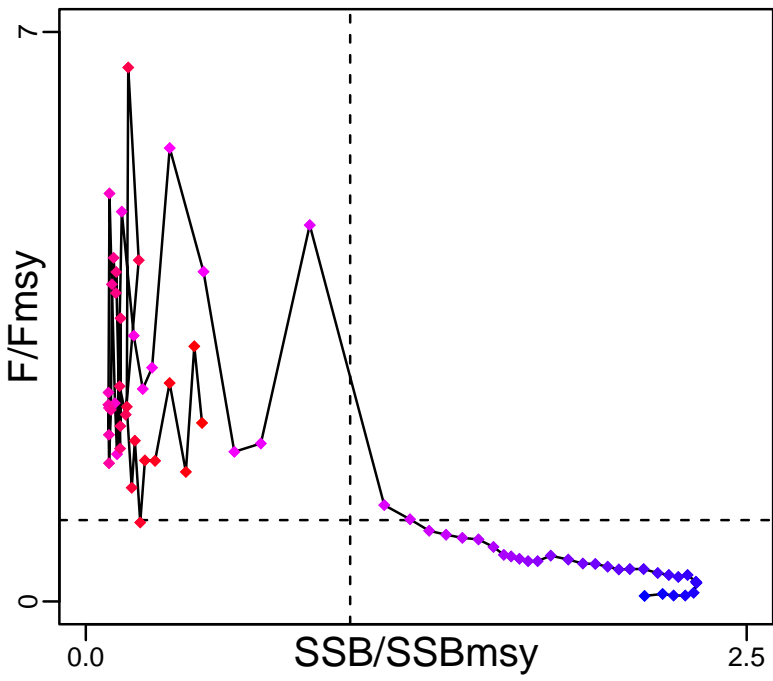
Metadata	
<b>Scientific Name</b>	Lutjanus campechanus
<b>Current Assess ID</b>	SEFSC-RSNAPSATLC-1949-2019-SISIMP2022
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in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

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

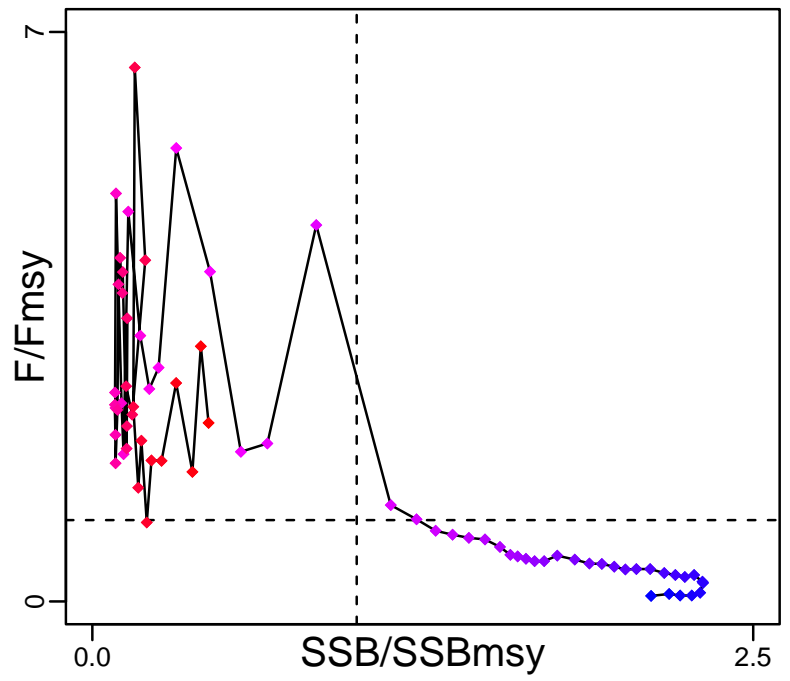
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	1430	-	-
<b>SSB</b>	SSB-E00eggs	2019	$2.791,91 \times 10^{13}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	1,212,587	-	1
<b>F</b>	F-1/yr	2019	0.452	-	-
<b>ER</b>	ER-calc-ratio	2010	0.335	-	-
<b>TC</b>	TC-MT	2014	330		
<b>TL</b>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

Red snapper Southern Atlantic coast [RSNAPSATLC]

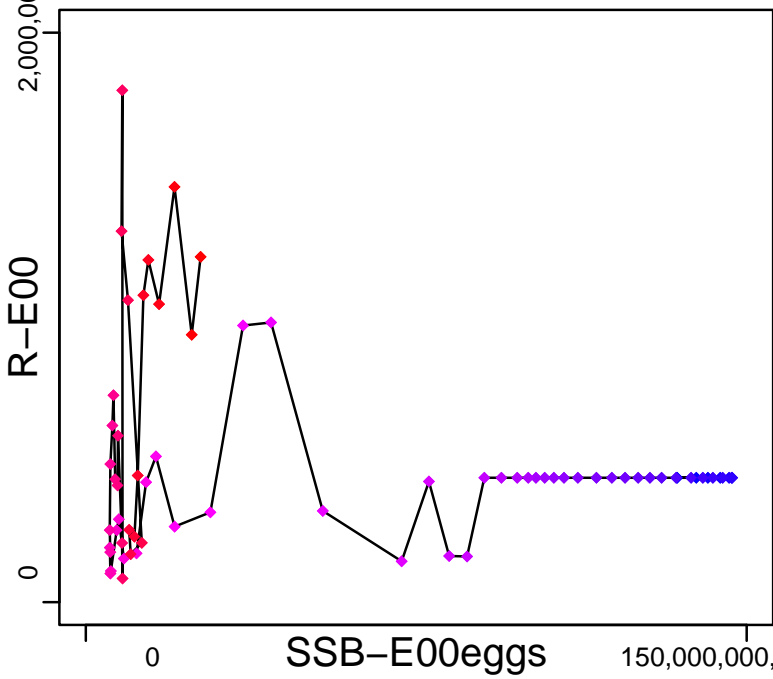
Kobe MSYpref (1949–2019–SISIMP2022)



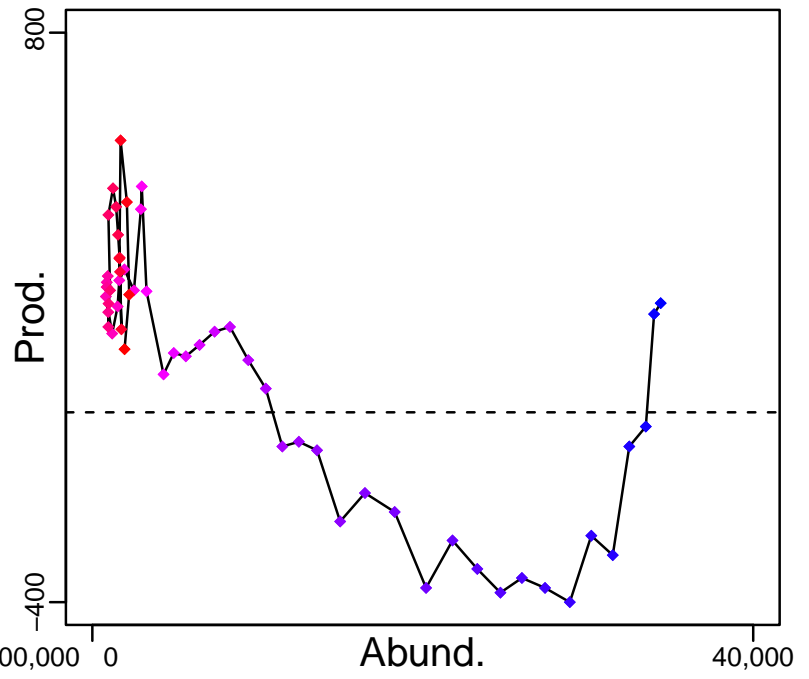
Kobe MGTpref (1949–2019–SISIMP2022)



Spawner Recruit (1949–2019–SISIMP2022)



Production (1954–2010–HIVELY)

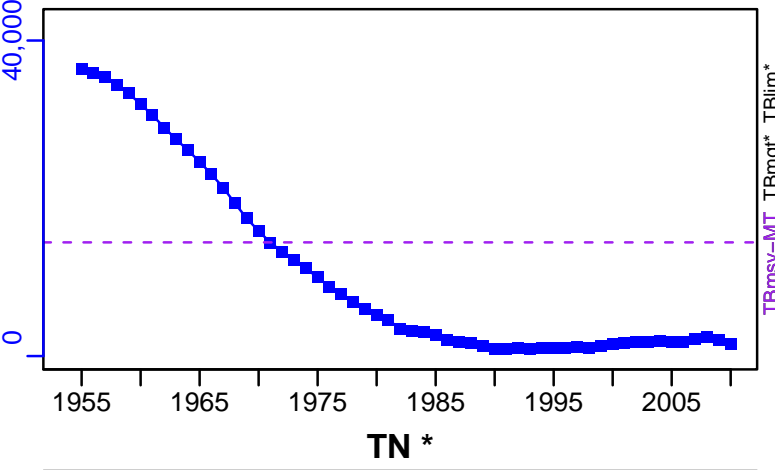


◆ Start Year ◆ End Year \* No Data

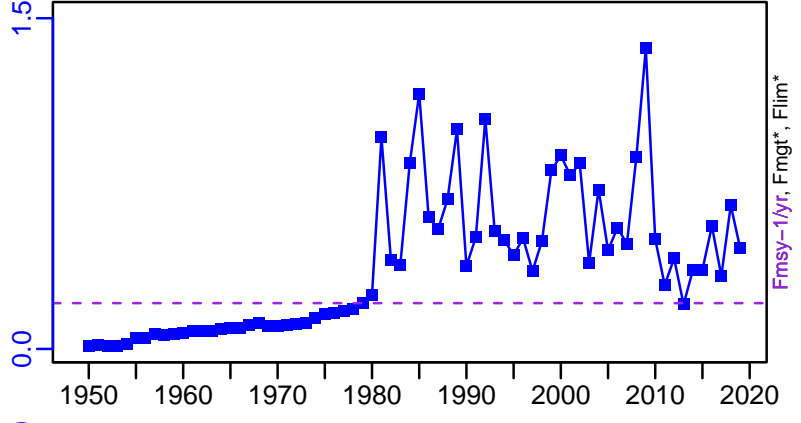
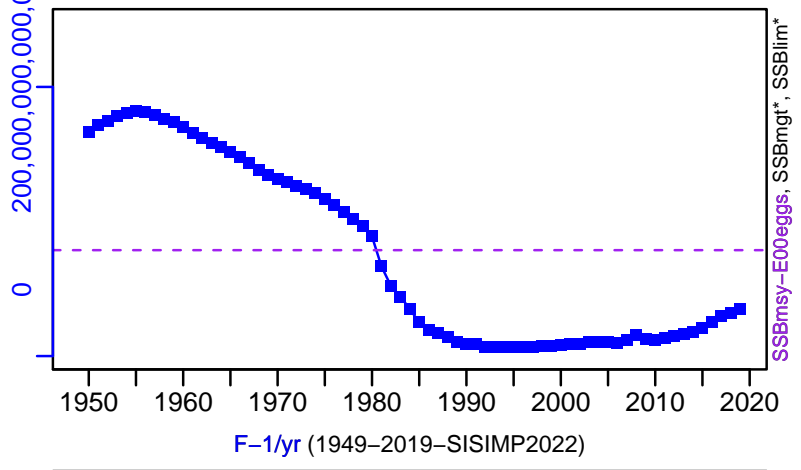


Red snapper Southern Atlantic coast [RSNAPSATLC]

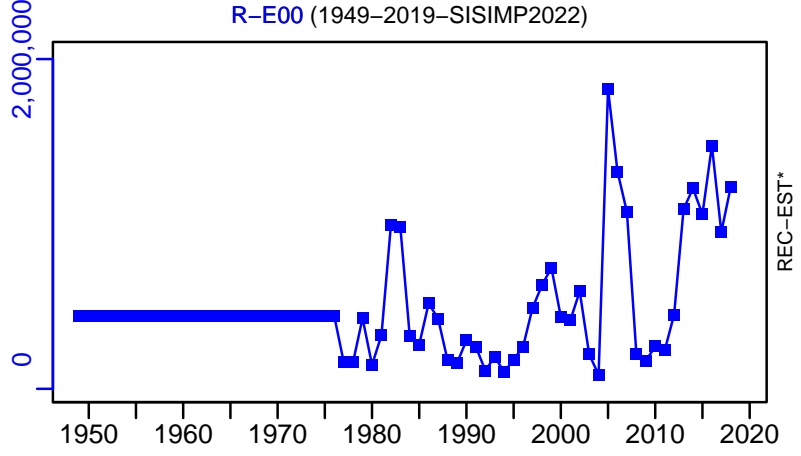
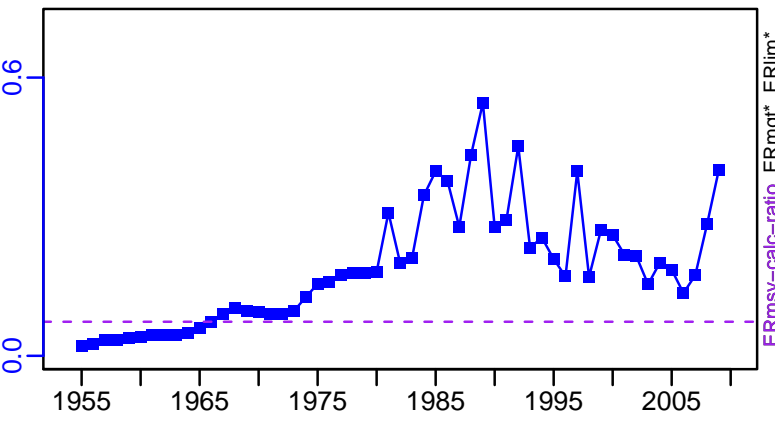
TB-MT (1954-2010-HIVELY)



SSB-E00eggs (1949-2019-SISIMP2022)



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

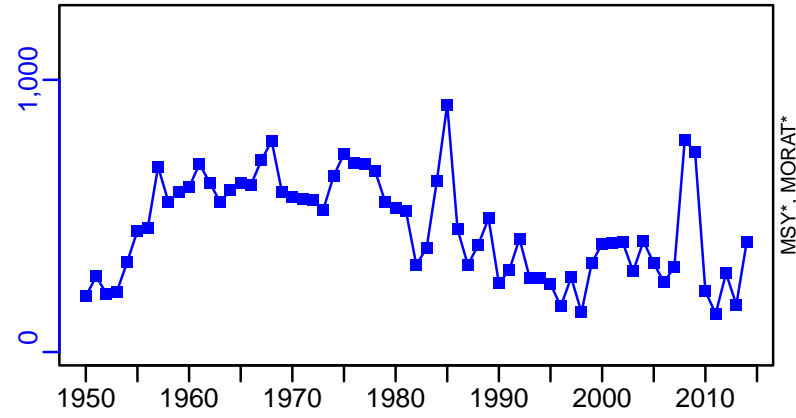


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	- - - Lim BRP	* No Data

Red snapper Southern Atlantic coast [RSNAPSATLC]

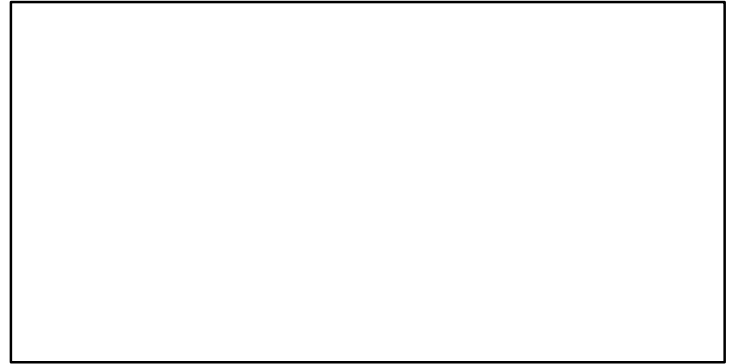
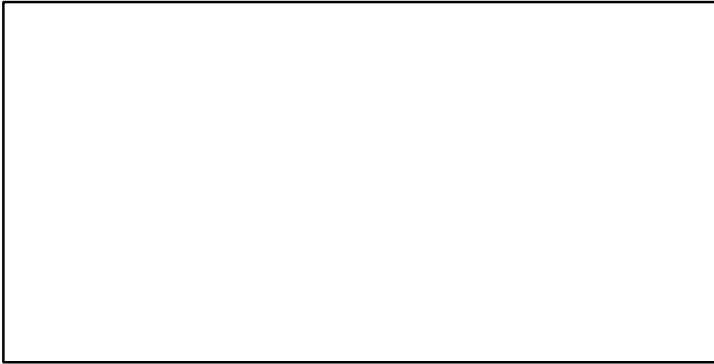
TC-MT, TL\*, RecC\* (1950-2014-SISIMP2016)

TAC\*, Cpair\*, Cadv\*



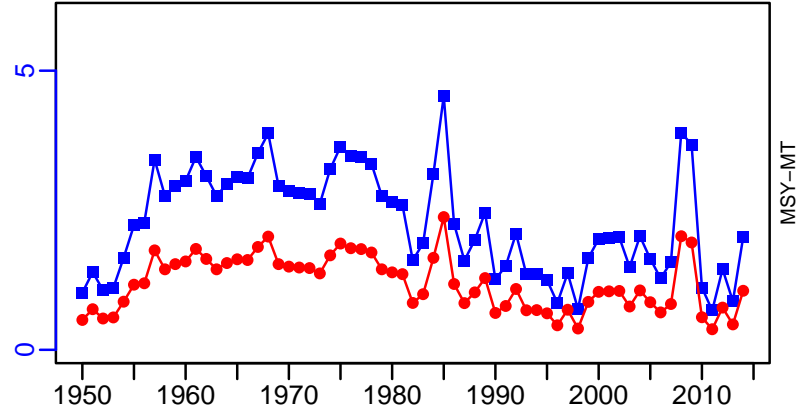
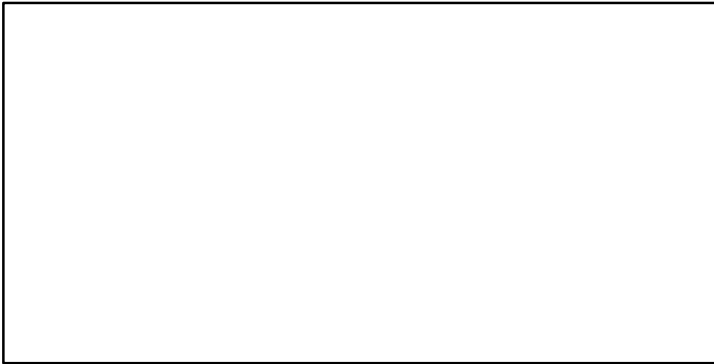
survB\*

CPUE\*



EFFORT\*

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



## Sandbar shark Atlantic [SBARSHARATL]

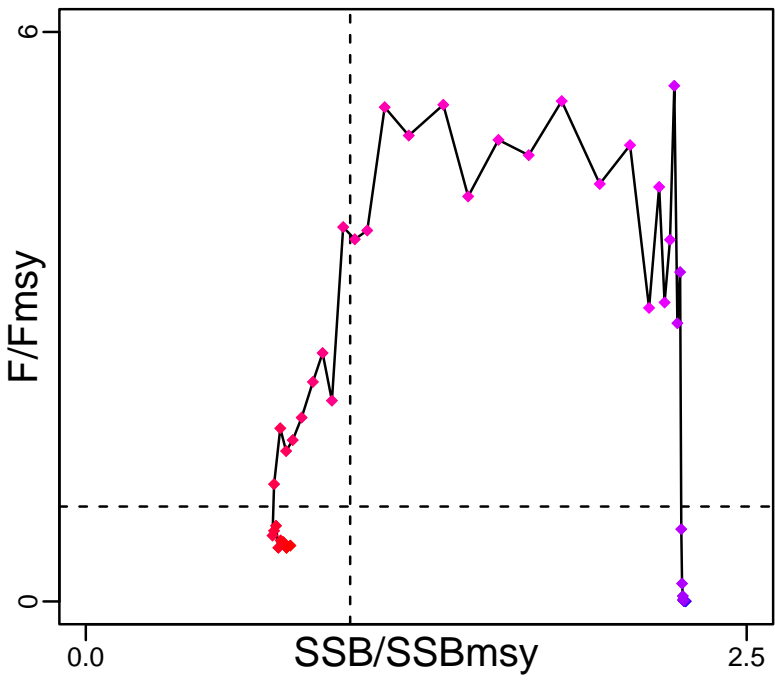
Metadata	
<b>Scientific Name</b>	Carcharhinus plumbeus
<b>Current Assess ID</b>	SEFSC-SBARSHARATL-1960-2015-SISIMP2021
<b>Area</b>	Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2009, 2015, 2004

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-E00	2015	681,000
<b>Fmsy</b>	Fmsy-1/yr	2015	0.07
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2004	403
<b>M</b>	M-1/yr	2004	0.224
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-E00	2015	595,000
<b>Flim</b>	Flim-1/yr	2015	0.07
<b>ERlim</b>	-	-	-

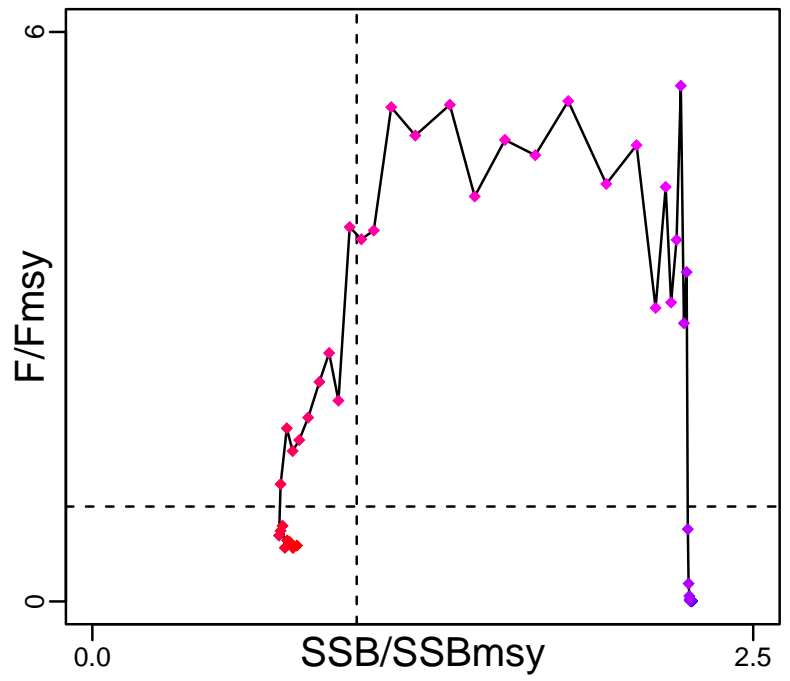
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	37,620	-	-
<b>SSB</b>	SSB-E00	2015	527,000	-	-
<b>TN</b>	TN-E00	2009	1,540,000	-	-
<b>R</b>	R-E00	2015	233,000	-	0
<b>F</b>	F-1/yr	2015	0.041	-	-
<b>ER</b>	ER-calc-ratio	2015	0.005	-	-
<b>TC</b>	TC-MT	2015	203		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-E00/SSBmsy-E00	2015	0.774		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	0.589		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Sandbar shark Atlantic [SBARSHARATL]

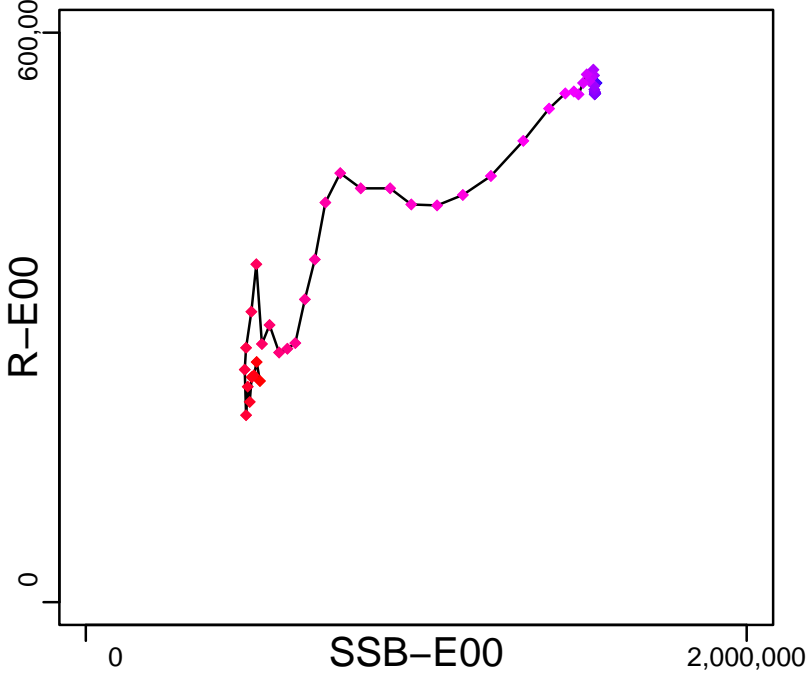
Kobe MSYpref (1960–2015–SISIMP2021)



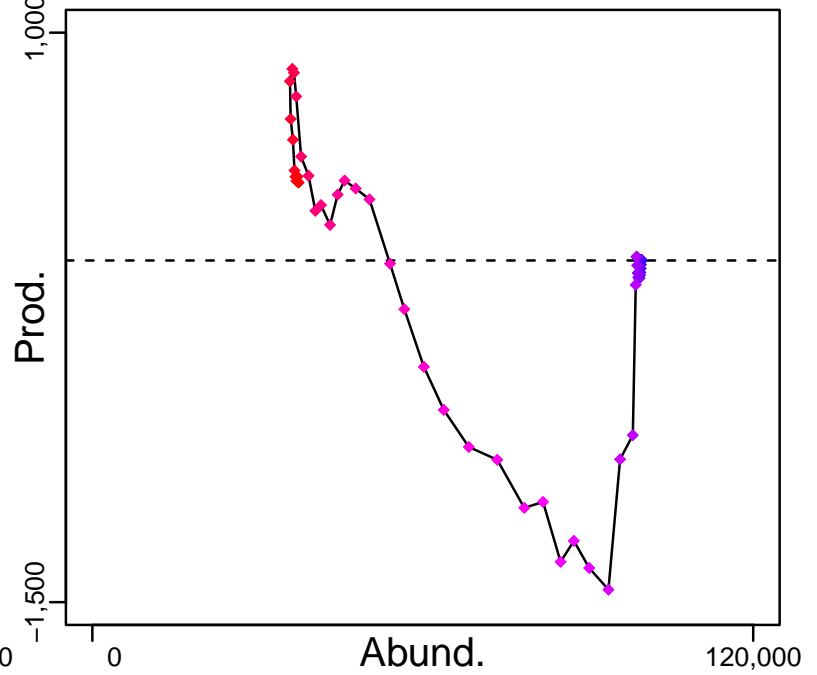
Kobe MGTpref (1960–2015–SISIMP2021)



Spawner Recruit (1960–2015–SISIMP2021)



Production (1960–2015–SISIMP2021)



◆ Start Year ◆ End Year \* No Data

Sandbar shark Atlantic [SBARSHARATL]

TB-MT (1960-2015-SISIMP2021)

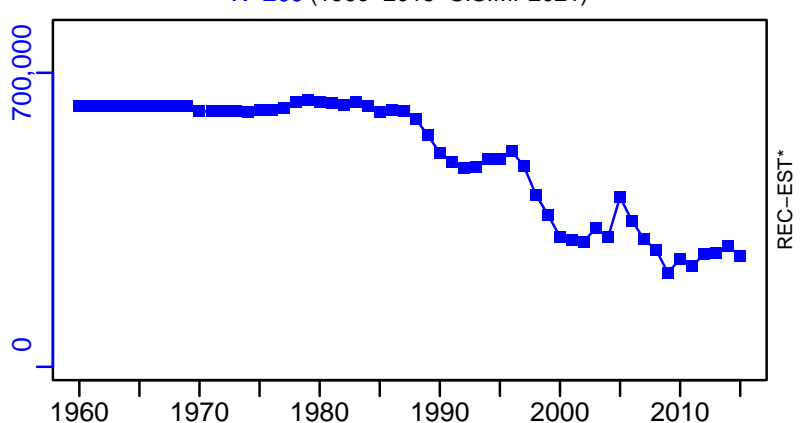
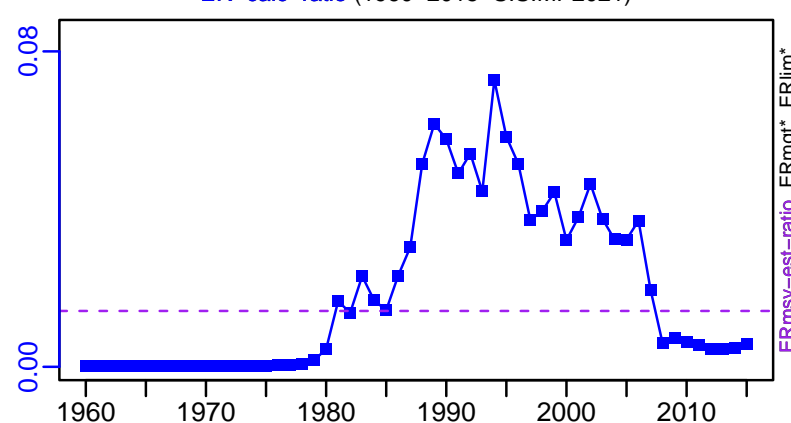
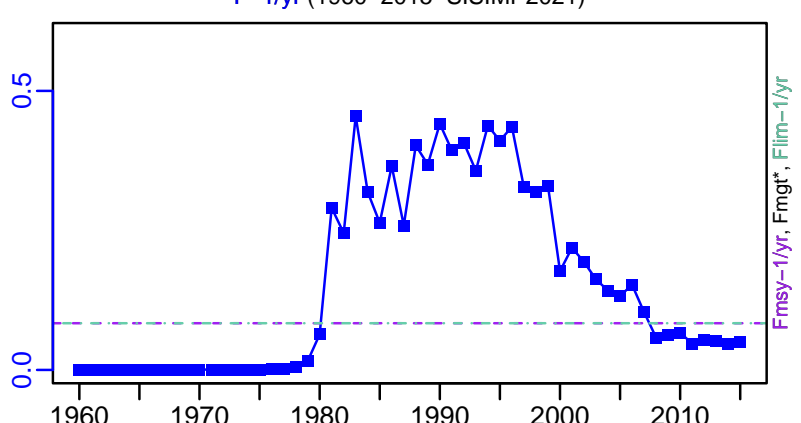
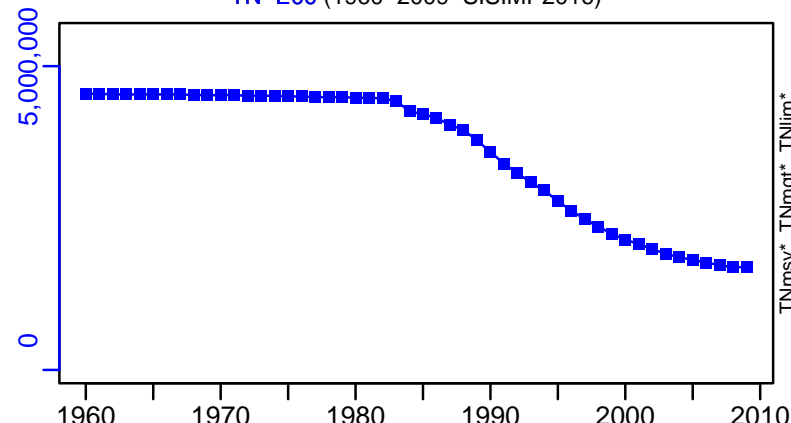
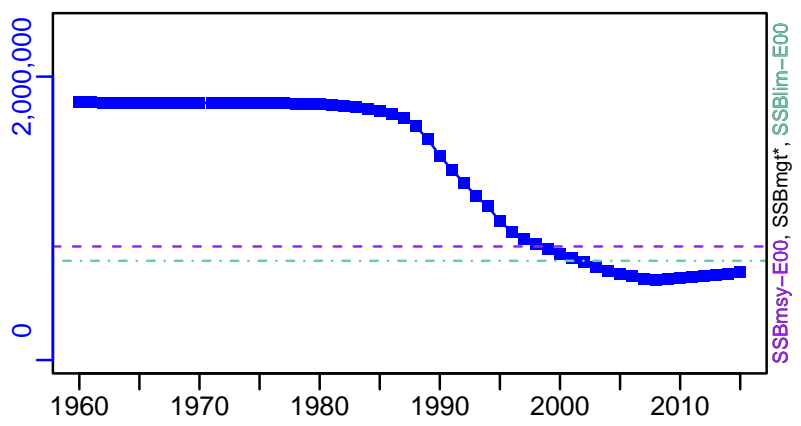
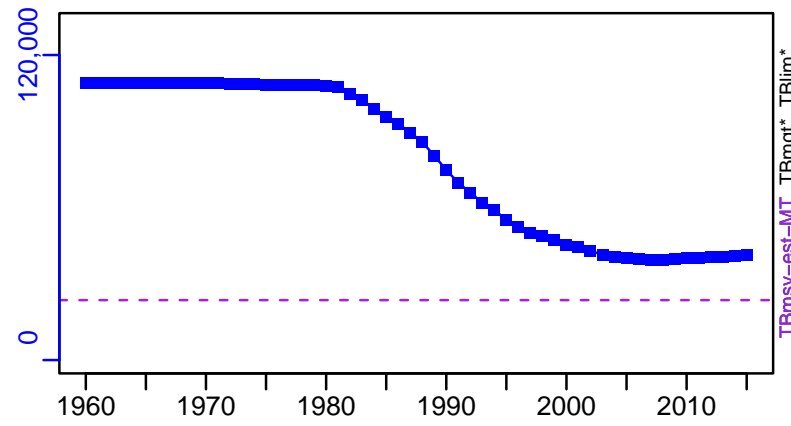
SSB-E00 (1960-2015-SISIMP2021)

TN-E00 (1960-2009-SISIMP2016)

F-1/yr (1960-2015-SISIMP2021)

ER-calc-ratio (1960-2015-SISIMP2021)

R-E00 (1960-2015-SISIMP2021)

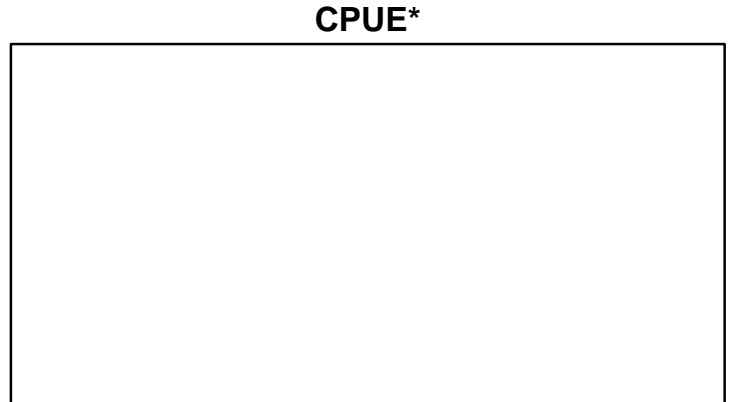
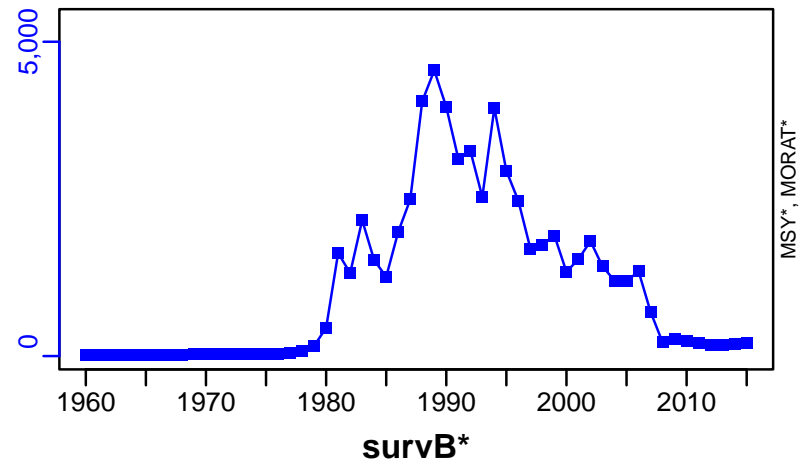


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	- · - Lim BRP	* No Data

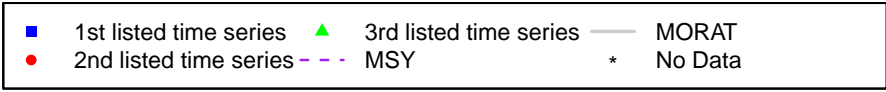
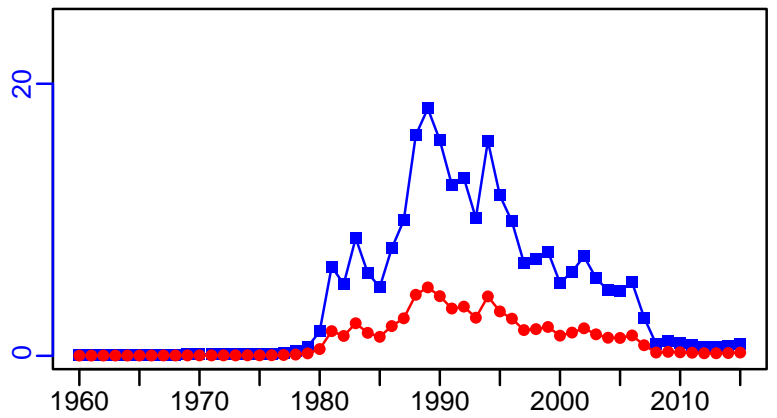
Sandbar shark Atlantic [SBARSHARATL]

TC-MT, TL\*, RecC\* (1960-2015-SISIMP2021)

TAC\*, Cpair\*, Cadv\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1960-2015-SISIMP2021)



## Silk snapper Caribbean [SKSNAPCARIB]

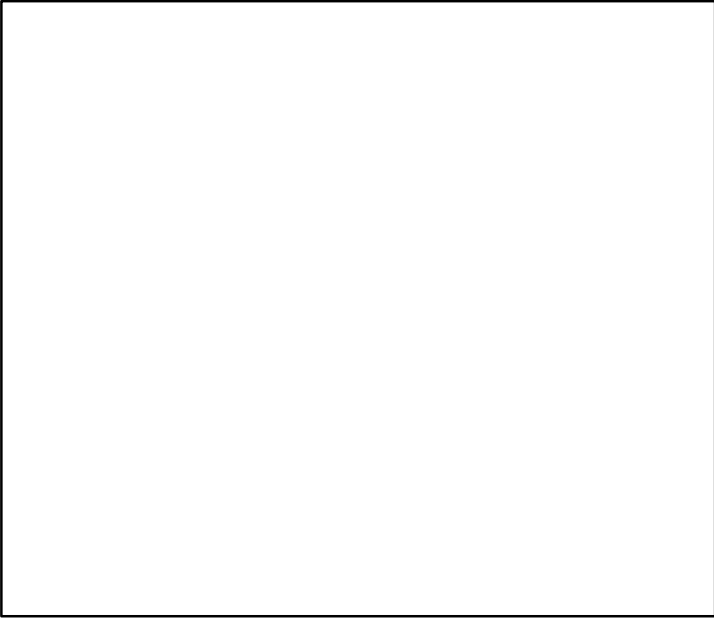
Metadata	
<b>Scientific Name</b>	Lutjanus vivanus
<b>Current Assess ID</b>	SEFSC-SKSNAPCARIB-1983-2009-SISIMP2016
<b>Area</b>	Caribbean
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2009

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

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

Silk snapper Caribbean [SKSNAPCARIB]

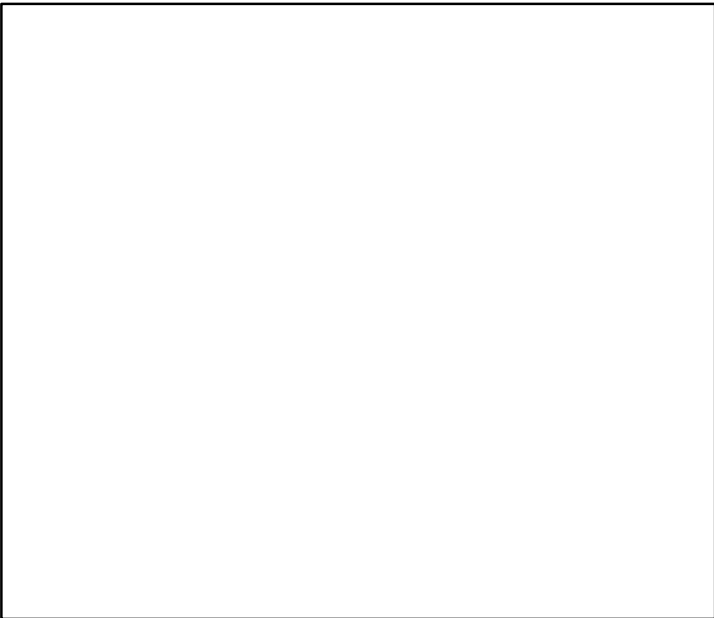
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***

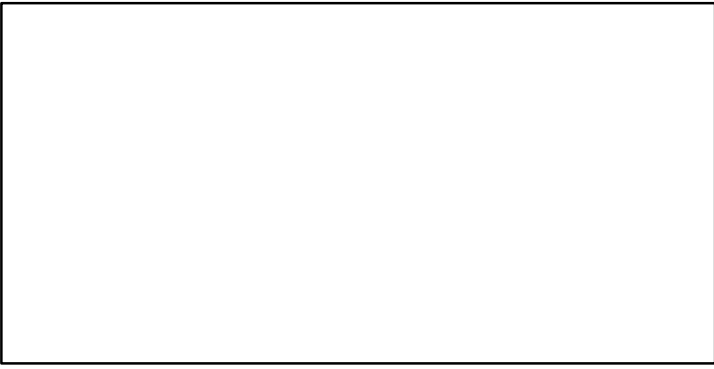


◆ Start Year ◆ End Year \* No Data



Silk snapper Caribbean [SKSNAPCARIB]

TB\*



SSB\*



TN \*



F\*



ER\*



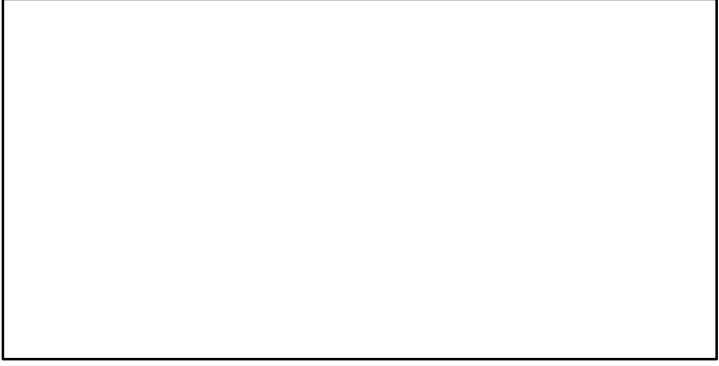
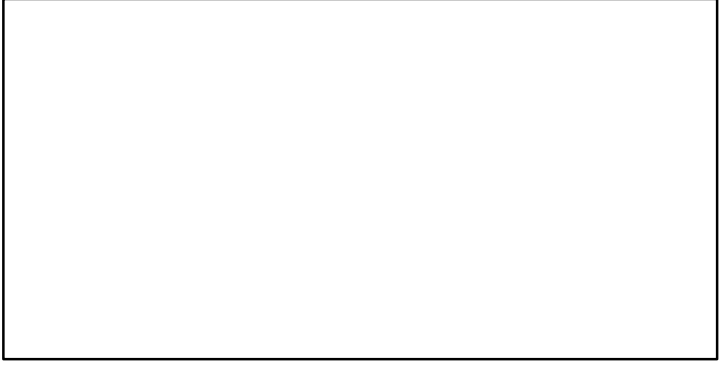
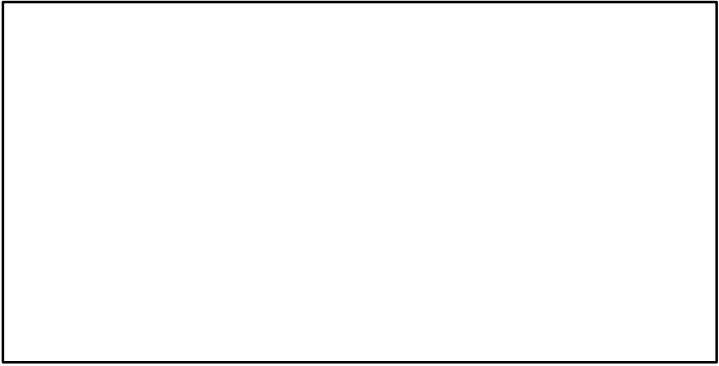
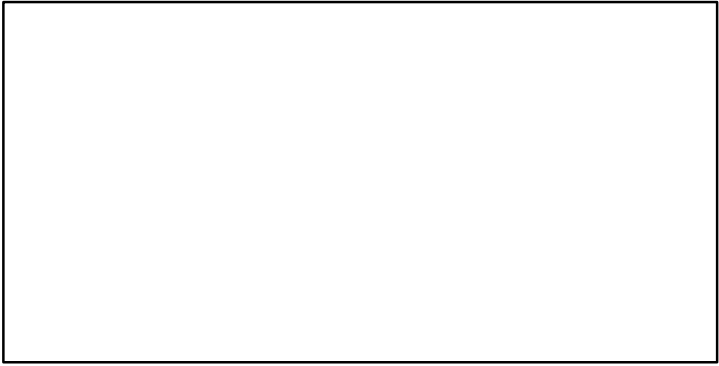
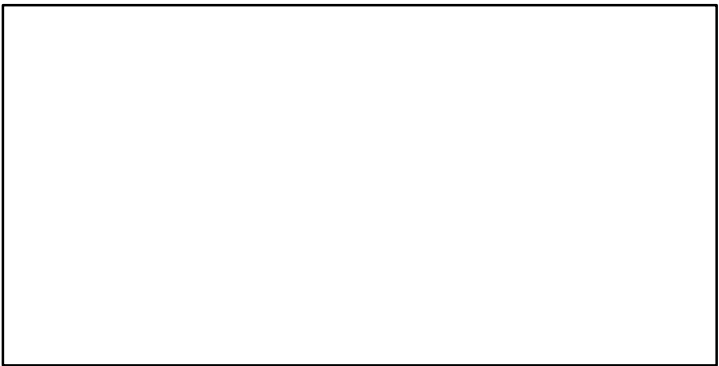
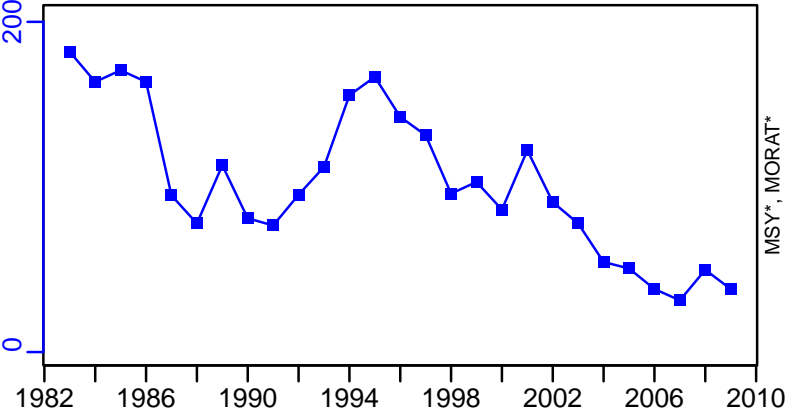
Recruits\*



Silk snapper Caribbean [SKSNAPCARIB]

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

TAC\*, Cpair\*, Cadv\*



## Atlantic sharpnose shark Atlantic [SNOSESHARATL]

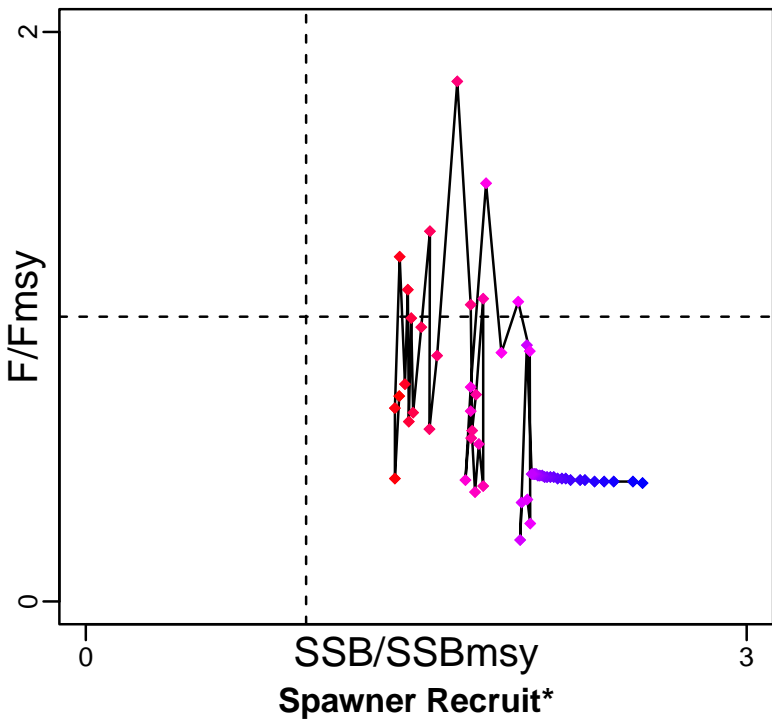
Metadata	
<b>Scientific Name</b>	Rhizoprionodon terraenovae
<b>Current Assess ID</b>	SEFSC-SNOSESHARATL-1950-2005-FAUCONNET
<b>Area</b>	Atlantic
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2005

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSFmsy-E00	2005	4,590,000
<b>Fmsy</b>	Fmsy-1/yr	2005	0.19
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2005	1270
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

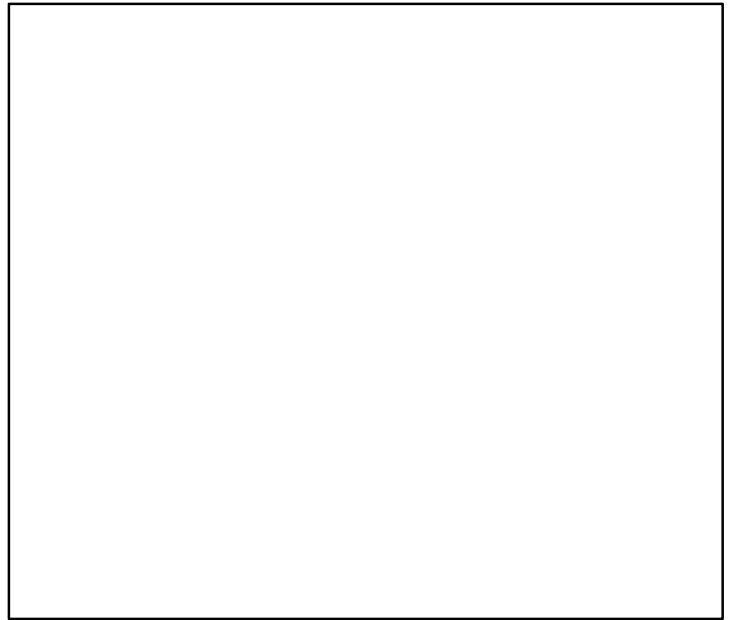
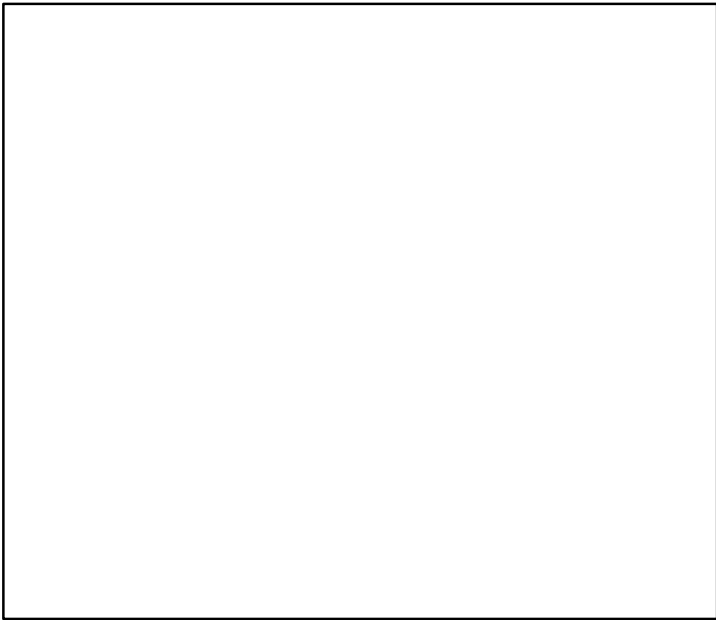
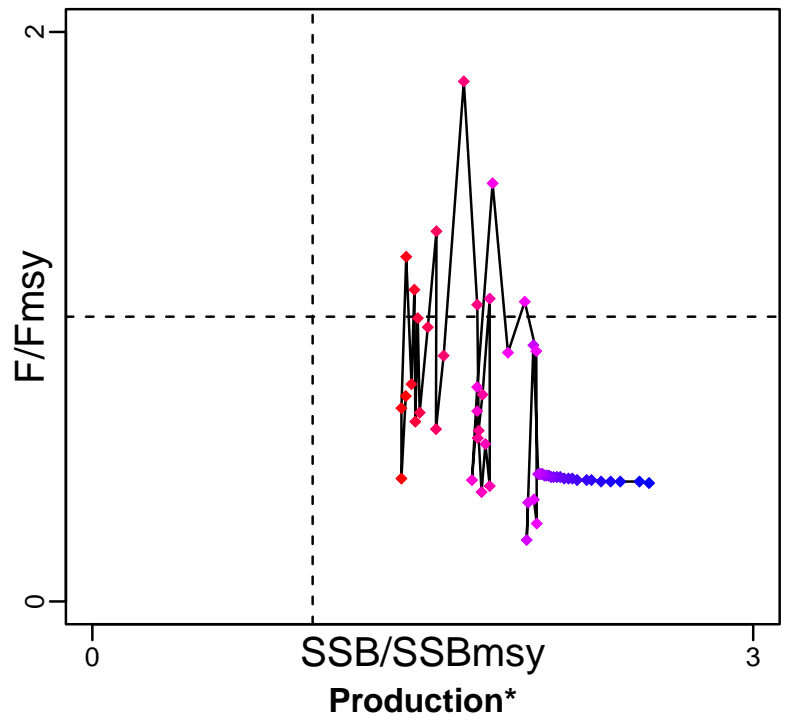
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSF-E00	2005	6,530,000	Females	2.5
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2005	0.137	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-E00	2005	534,000		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSF-E00/SSFmsy-E00	2005	1.423		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2005	0.721		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Atlantic sharpnose shark Atlantic [SNOSESHARATL]

Kobe MSYpref (1950–2005–FAUCONNET)



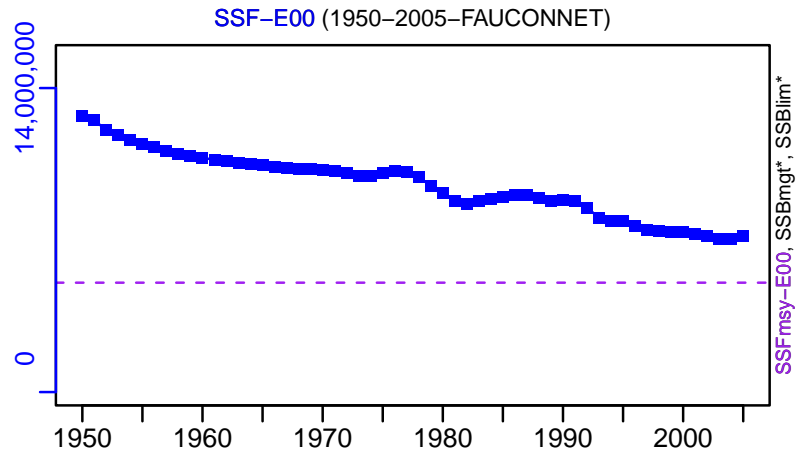
Kobe MGTpref (1950–2005–FAUCONNET)



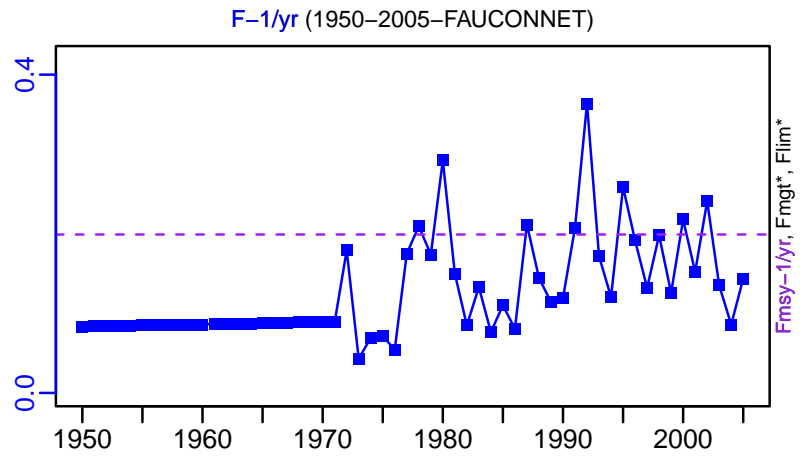
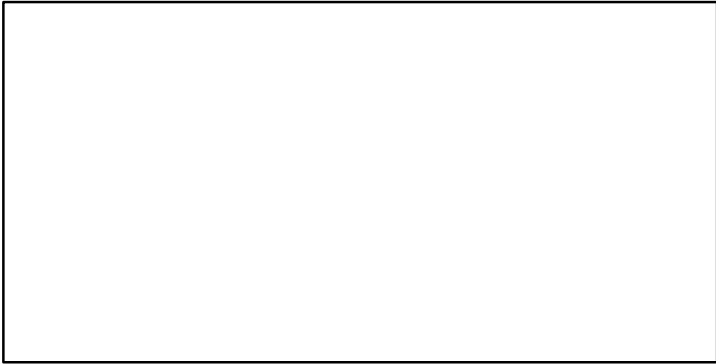
◆ Start Year ◆ End Year \* No Data

Atlantic sharpnose shark Atlantic [SNOSESHARATL]

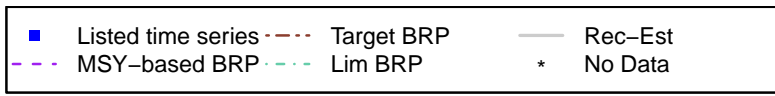
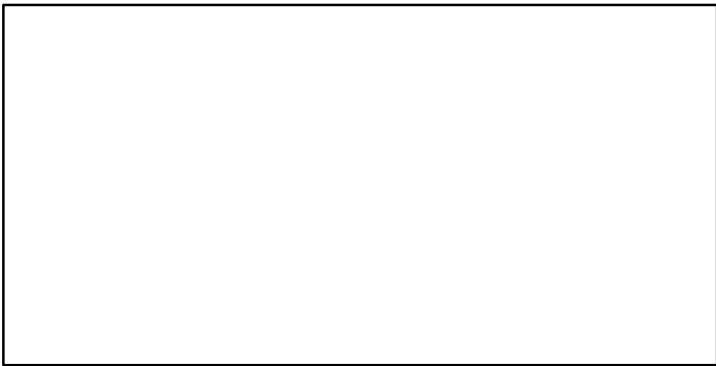
TB\*



TN \*



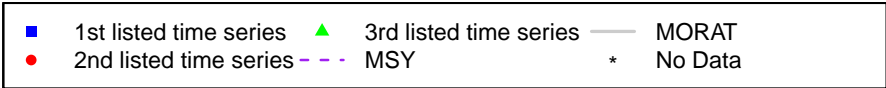
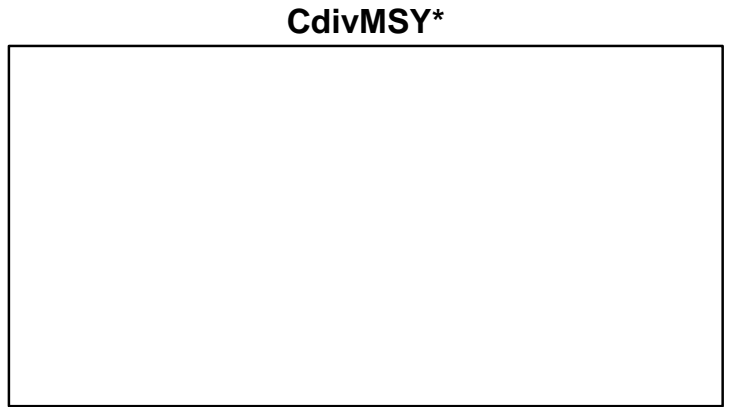
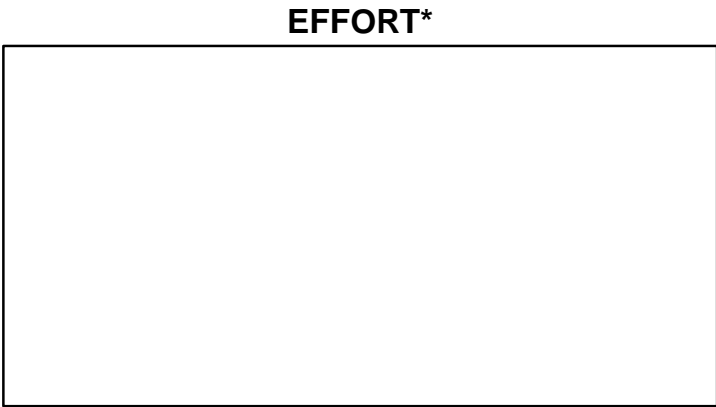
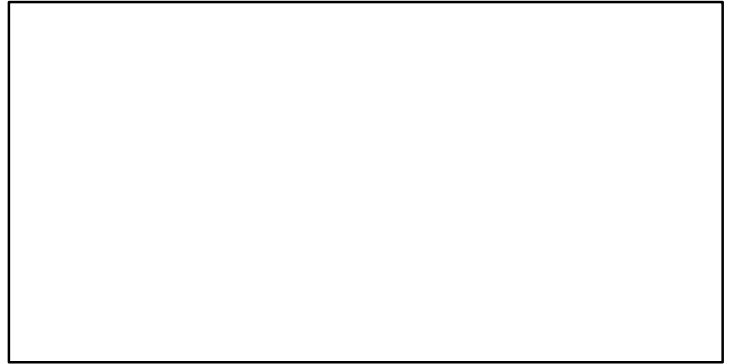
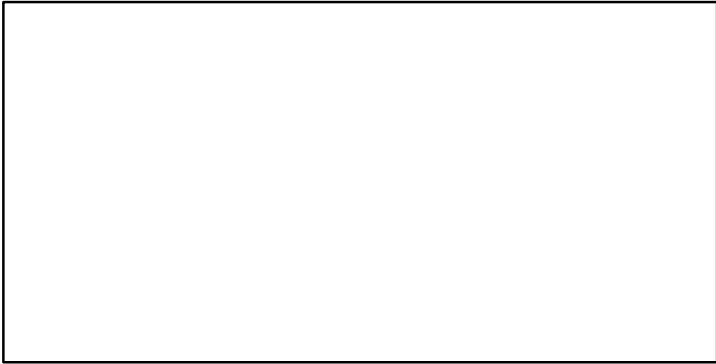
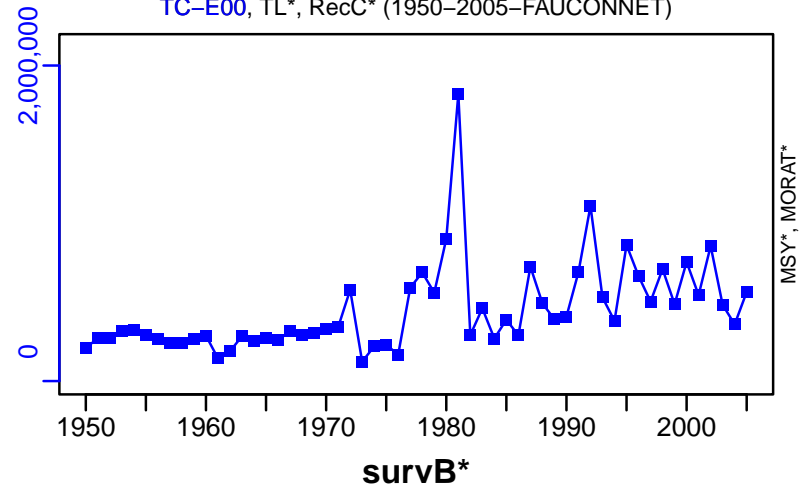
ER\*



Atlantic sharpnose shark Atlantic [SNOSESHARATL]

TC-E00, TL\*, RecC\* (1950-2005-FAUCONNET)

TAC\*, Cpair\*, Cadv\*



## Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

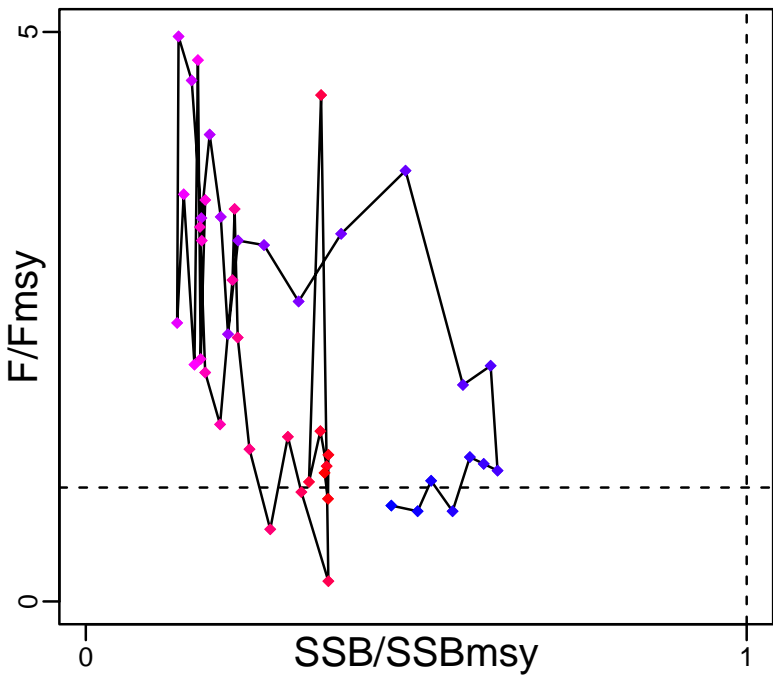
Metadata	
<b>Scientific Name</b>	Epinephelus niveatus
<b>Current Assess ID</b>	SEFSC-SNOWGROUPSATLC-1974-2018-SISIMP2021-2
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts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

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

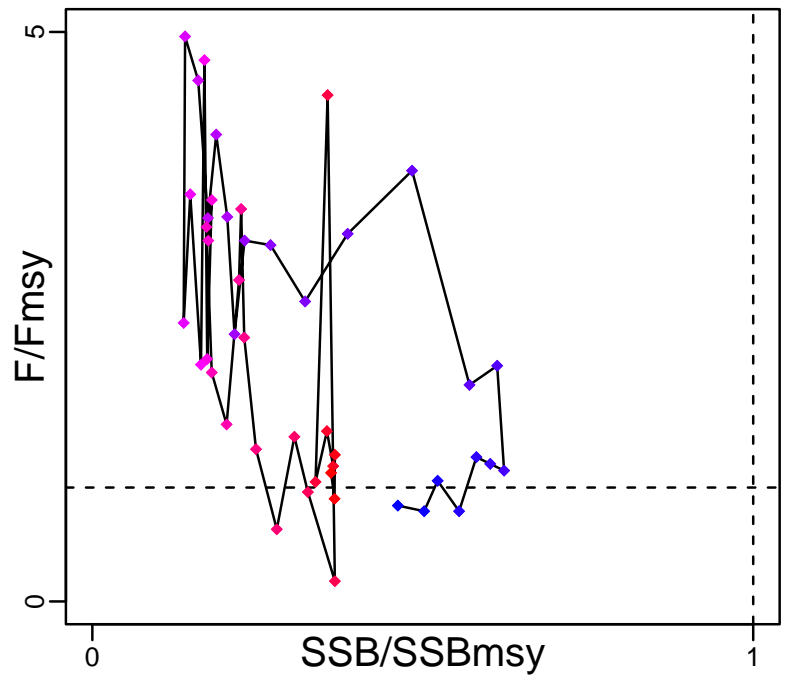
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	1200	-	-
<b>SSB</b>	SSB-MT	2018	690	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	197,000	-	1
<b>F</b>	F-1/yr	2018	0.114	-	-
<b>ER</b>	ER-calc-ratio	2013	0.097	-	-
<b>TC</b>	TC-MT	2018	105		
<b>TL</b>	TL-MT	2013	110		
<b>TB/TBmsy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

Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

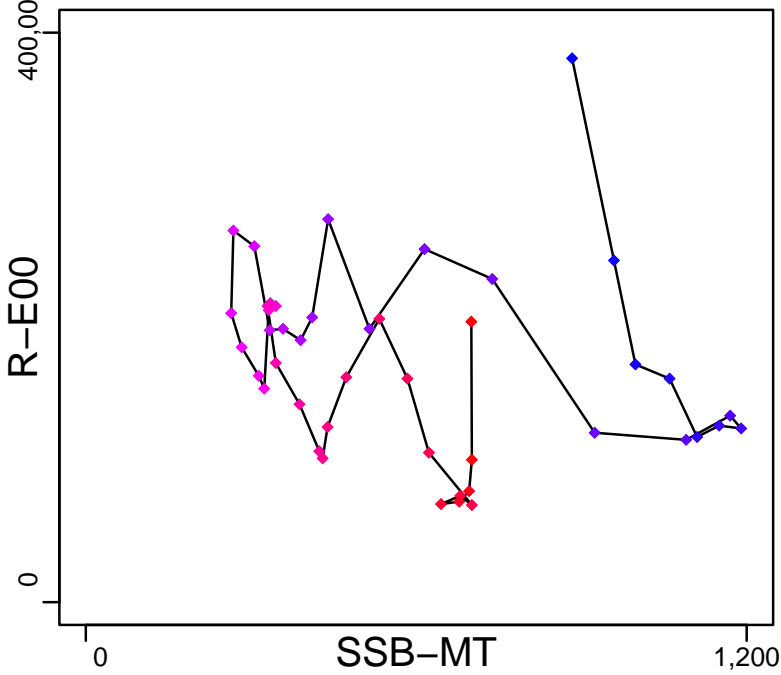
Kobe MSYpref (1974–2018–SISIMP2021–2)



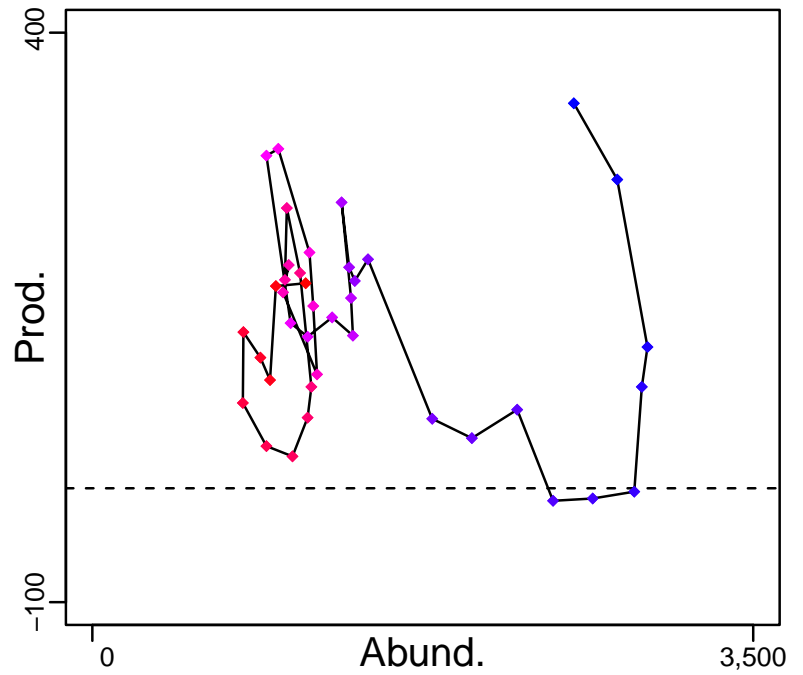
Kobe MGTpref (1974–2018–SISIMP2021–2)



Spawner Recruit (1974–2018–SISIMP2021–2)



Production (1974–2018–SISIMP2021–2)



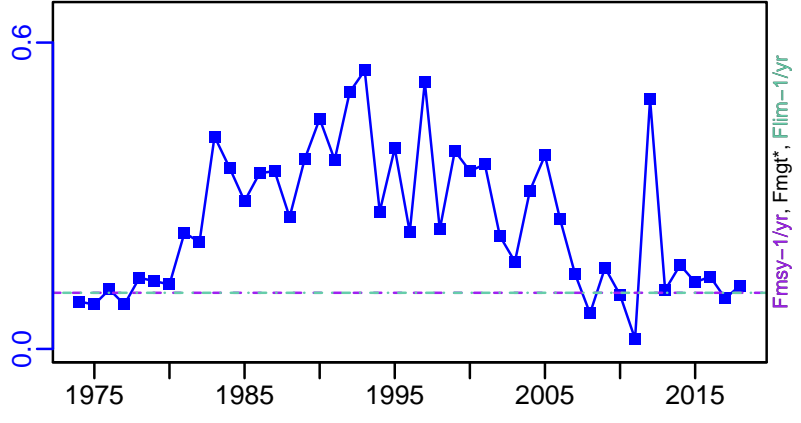
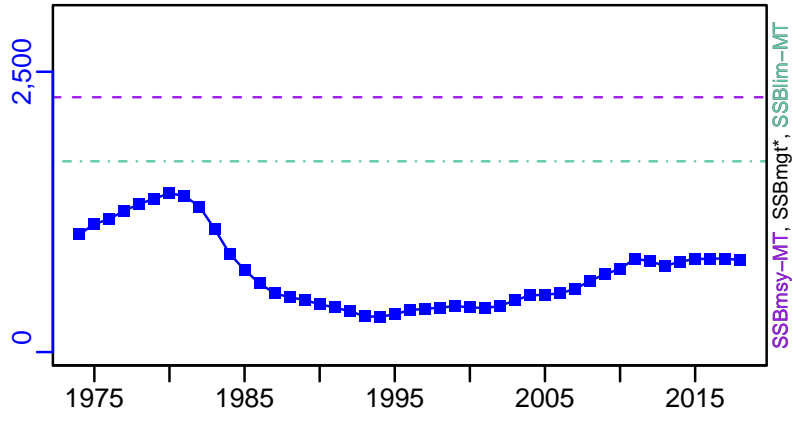
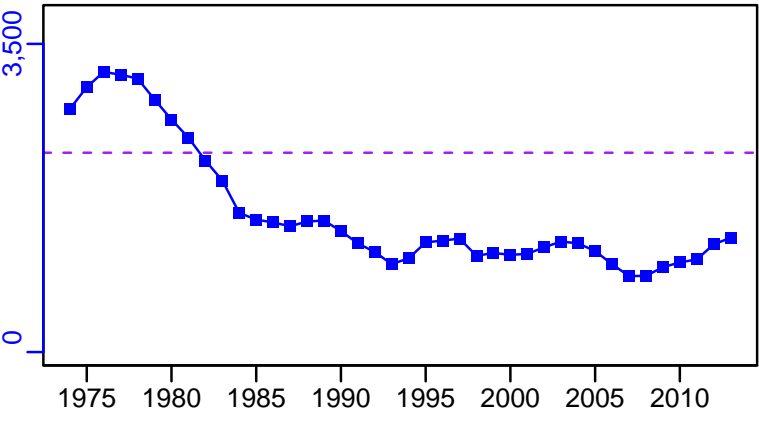
◆ Start Year ◆ End Year \* No Data



Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

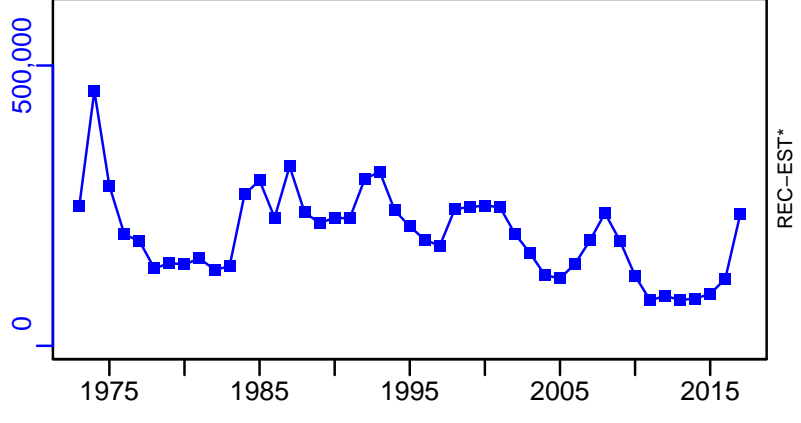
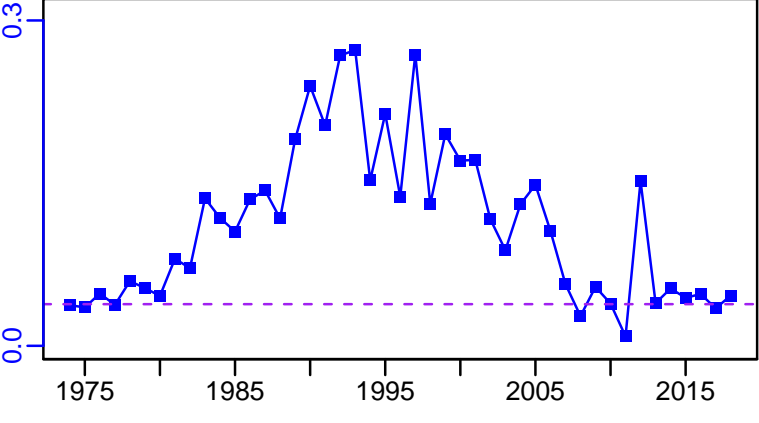
TB-MT (1974-2013-HIVELY)

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



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

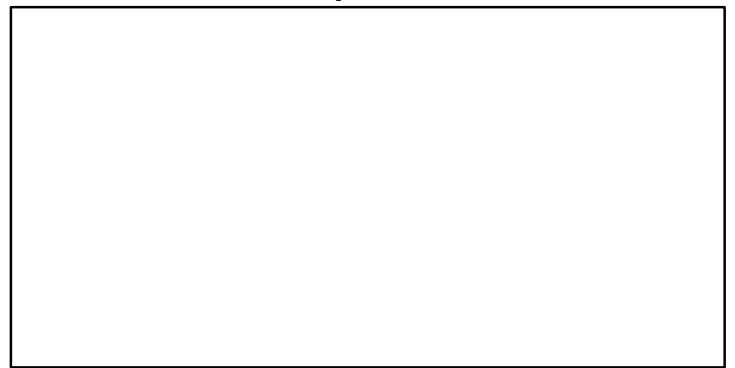
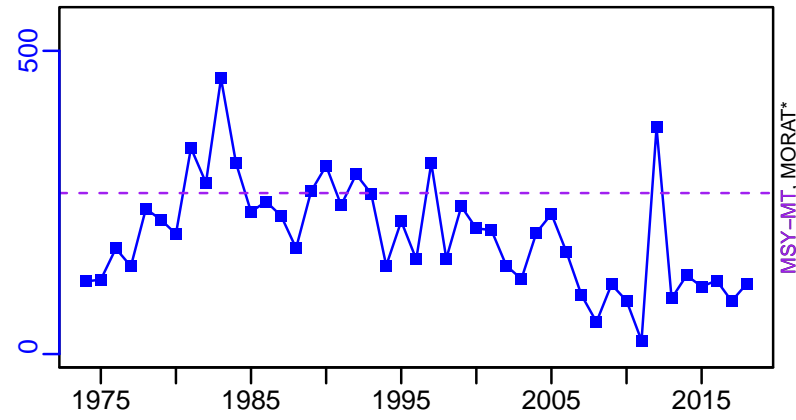
R-E00 (1974-2018-SISIMP2021-2)



Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

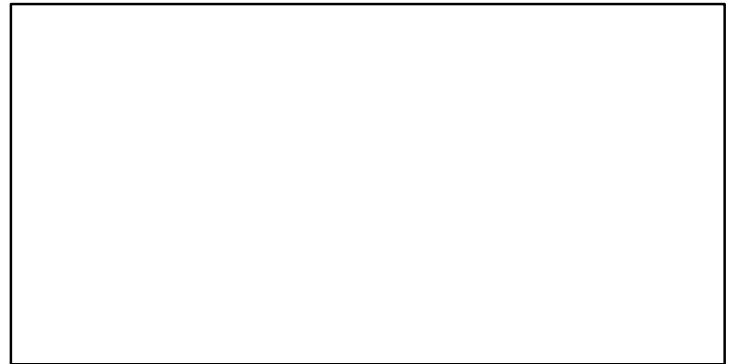
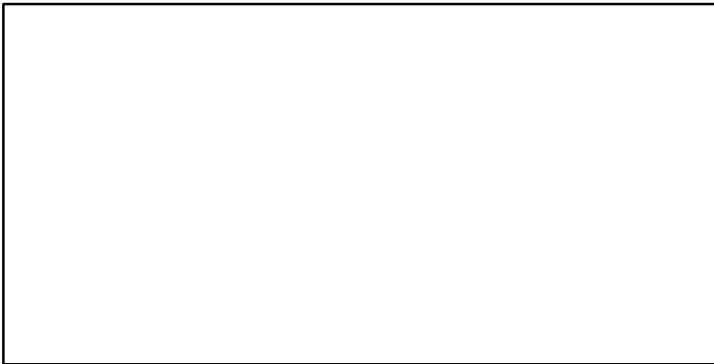
TC-MT, TL\*, RecC\* (1974-2018-SISIMP2021-2)

TAC\*, Cpair\*, Cadv\*



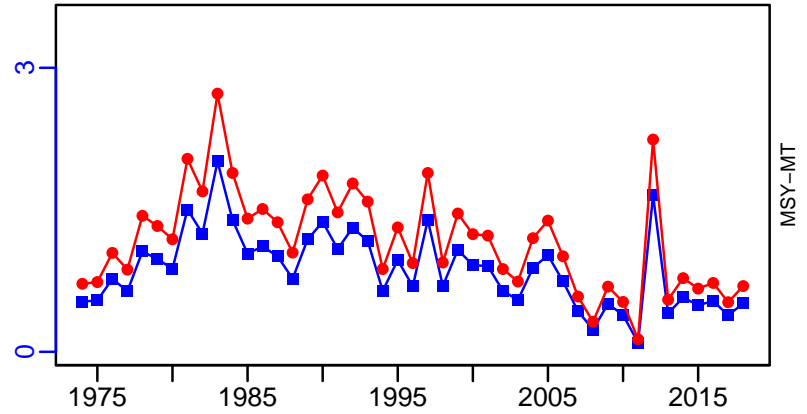
survB\*

CPUE\*



EFFORT\*

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



## Spanish mackerel Gulf of Mexico [SPANMACKGM]

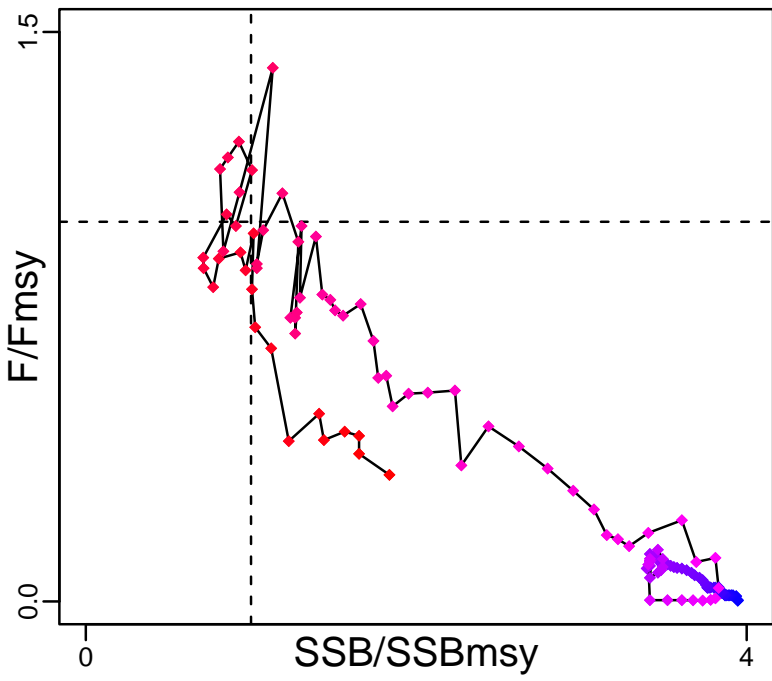
Metadata	
<b>Scientific Name</b>	Scomberomorus maculatus
<b>Current Assess ID</b>	SEFSC-SPANMACKGM-1886-2011-HIVELY
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-pr-MT	2011	10,339
<b>Fmsy</b>	Fmsy-pr-1/yr	2011	0.36
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

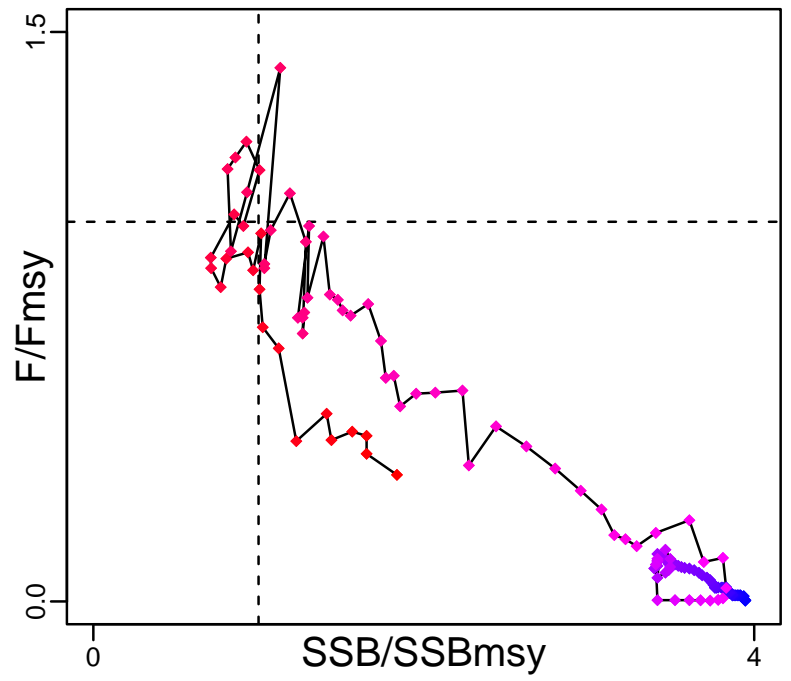
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	28,400	-	-
<b>SSB</b>	SSB-MT	2011	19,000	-	0.2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	31,500,000	-	-
<b>F</b>	F-1/yr	2011	0.12	-	-
<b>ER</b>	ER-calc-ratio	2011	0.023	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2011	567	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-pr-MT	2011	1.838	-	-
<b>F/Fmsy</b>	F-1/yr/Fmsy-pr-1/yr	2011	0.333	-	-
<b>ER/ERmsy</b>	-	-	-	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	-	-	-	-	-
<b>F/Fmgt</b>	-	-	-	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

Spanish mackerel Gulf of Mexico [SPANMACKGM]

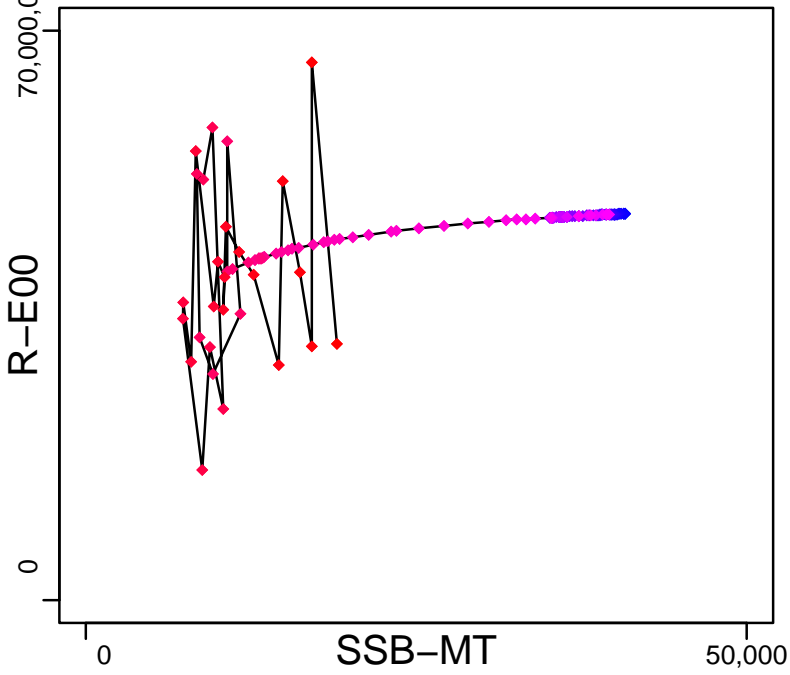
Kobe MSYpref (1886–2011–HIVELY)



Kobe MGTpref (1886–2011–HIVELY)



Spawner Recruit (1886–2011–HIVELY)



Production\*

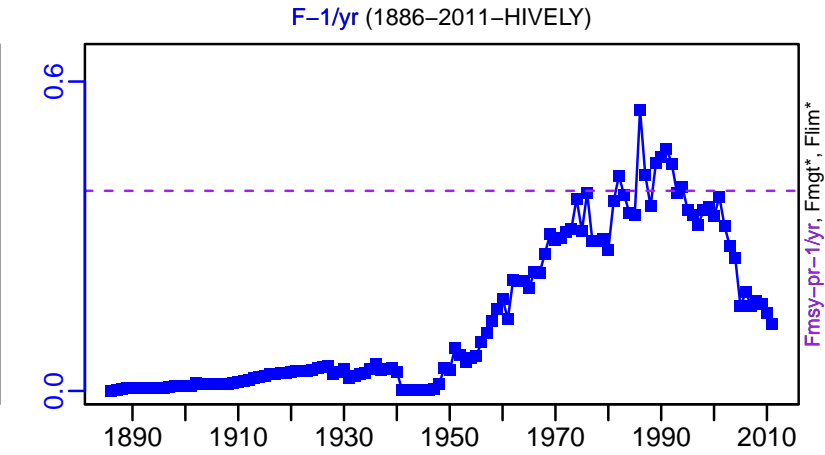
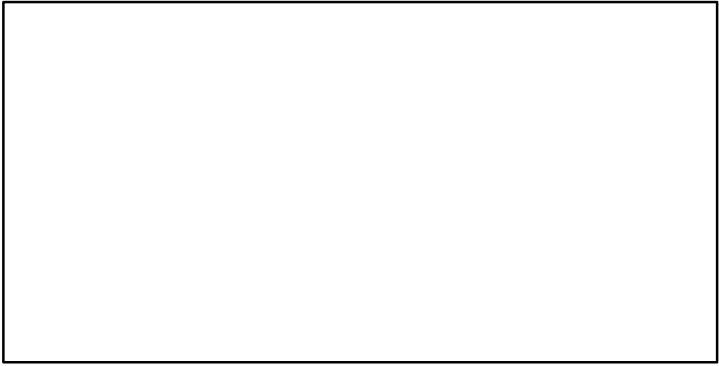
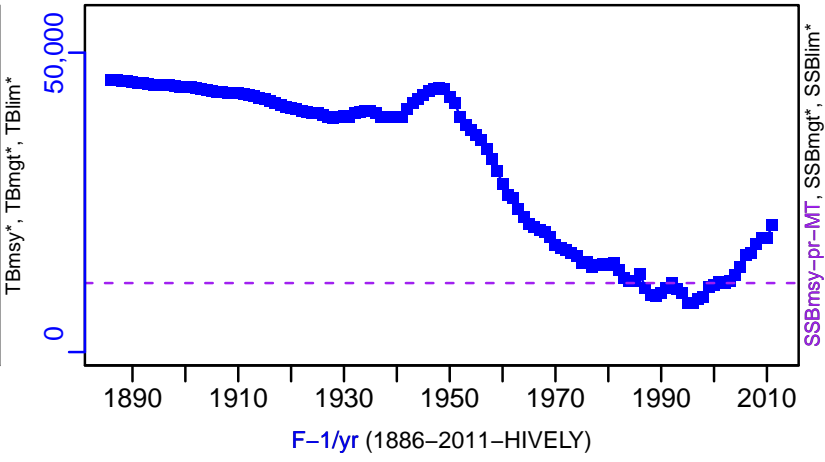
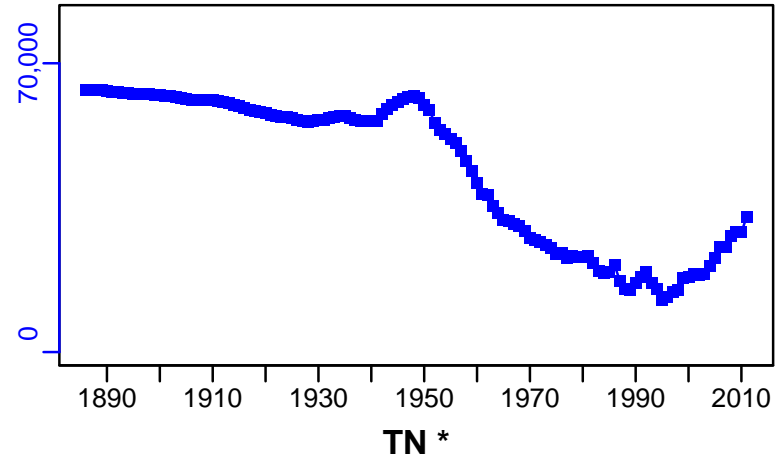


◆ Start Year ◆ End Year \* No Data

Spanish mackerel Gulf of Mexico [SPANMACKGM]

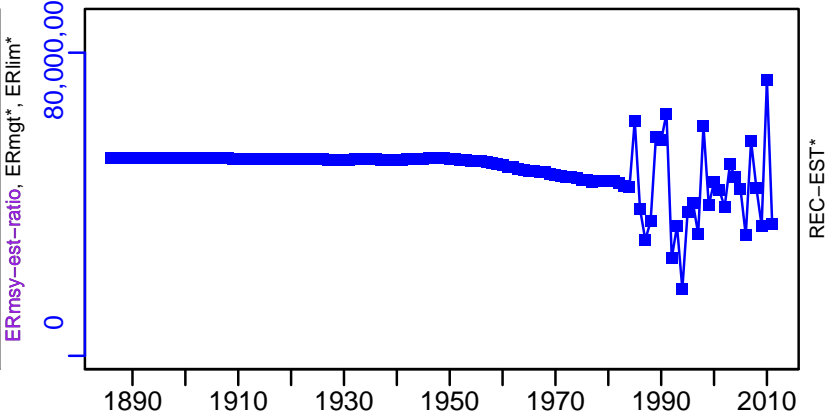
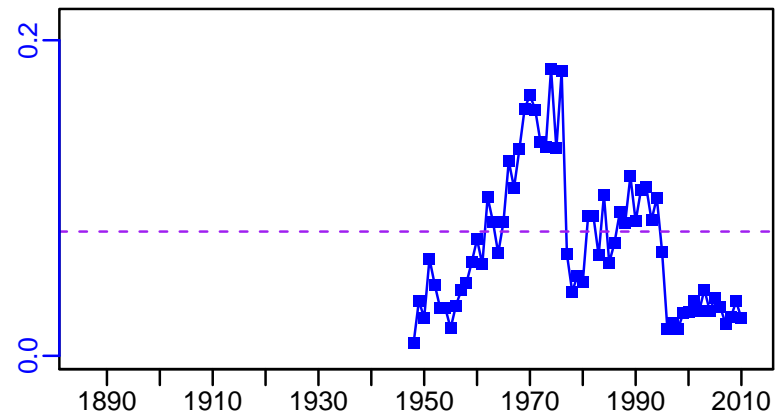
TB-MT (1886-2011-HIVELY)

SSB-MT (1886-2011-HIVELY)



ER-calc-ratio (1886-2011-HIVELY)

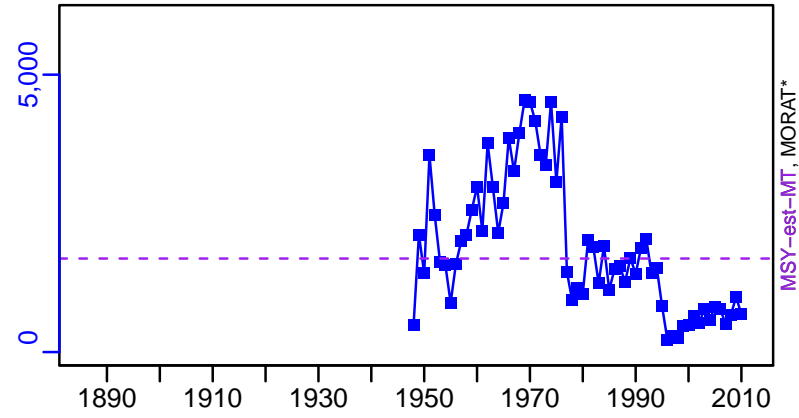
R-E00 (1886-2011-HIVELY)



Spanish mackerel Gulf of Mexico [SPANMACKGM]

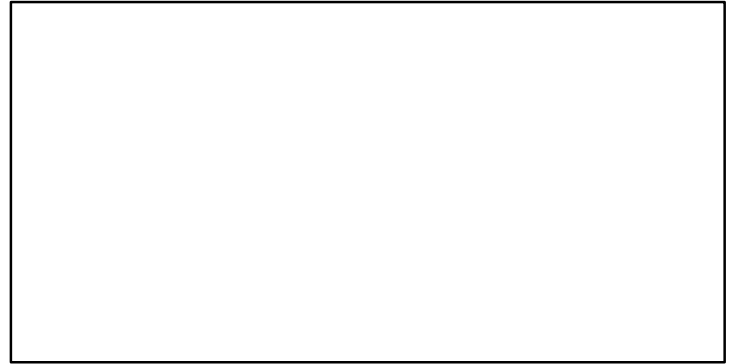
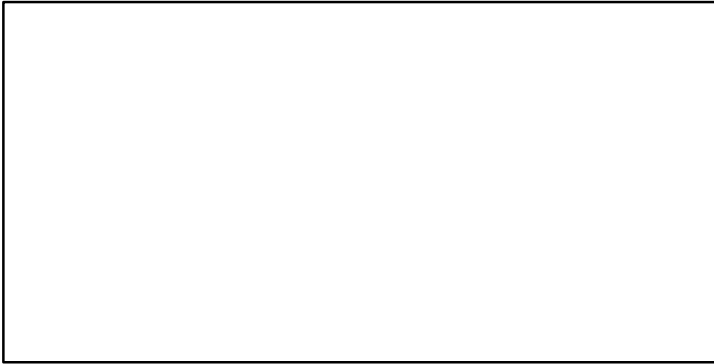
TL-MT, TC\*, RecC\* (1886-2011-HIVELY)

TAC\*, Cpair\*, Cadv\*



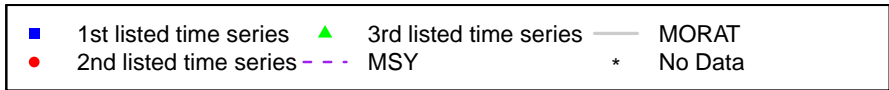
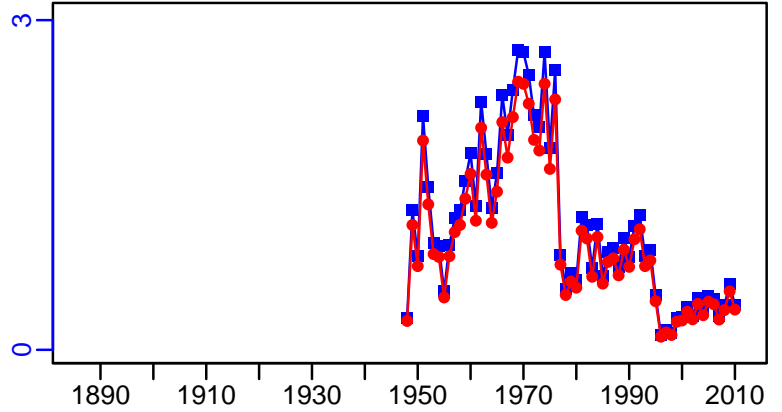
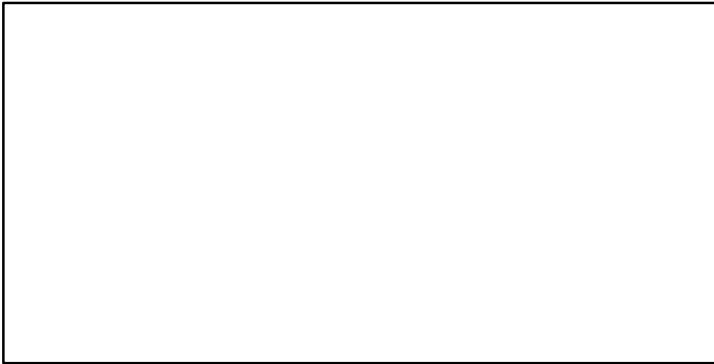
survB\*

CPUE\*



EFFORT\*

TL-MT/MSY-est-MT, CdivMEANC-ratio, (1886-2011-HIVELY)



## Spanish mackerel Southern Atlantic coast [SPANMACKSATLC]

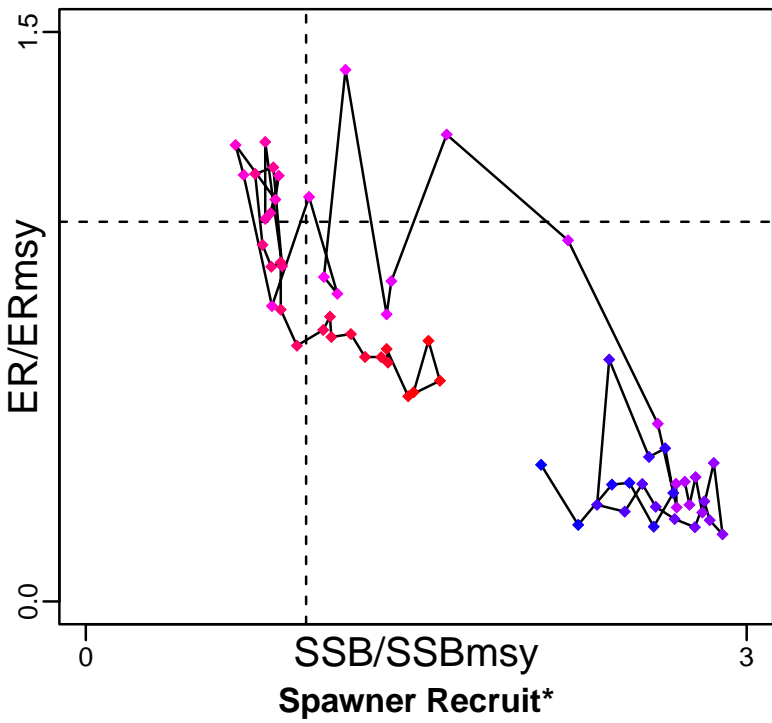
Metadata	
<b>Scientific Name</b>	Scomberomorus maculatus
<b>Current Assess ID</b>	SEFSC-SPANMACKSATLC-1950-2012-HIVELY
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2012	9548
<b>SSBmsy</b>	SSBmsy-MT	2012	3266
<b>Fmsy</b>	Fmsy-pr-1/yr	2012	0.69
<b>ERmsy</b>	ERmsy-calc-ratio	2012	0.288
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2012	3266
<b>Fmgt</b>	Fmgt-1/yr	2012	0.517
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2012	2750
<b>M</b>	M-1/yr	2012	0.35
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

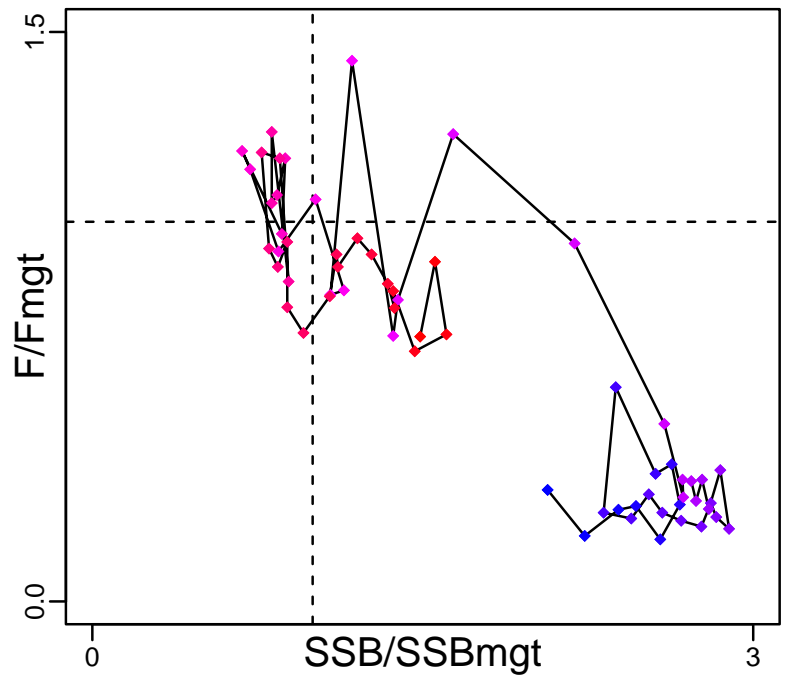
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2012	11,400	-	-
<b>SSB</b>	SSB-MT	2012	4860	Females	0.7+
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2012	0.361	-	-
<b>ER</b>	ER-calc-ratio	2012	0.159	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2012	1920	-	-
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2012	1.194	-	-
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2012	1.488	-	-
<b>F/Fmsy</b>	F-1/yr/Fmsy-pr-1/yr	2012	0.523	-	-
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2012	0.551	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2012	1.488	-	-
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	0.698	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

Spanish mackerel Southern Atlantic coast [SPANMACKSATLC]

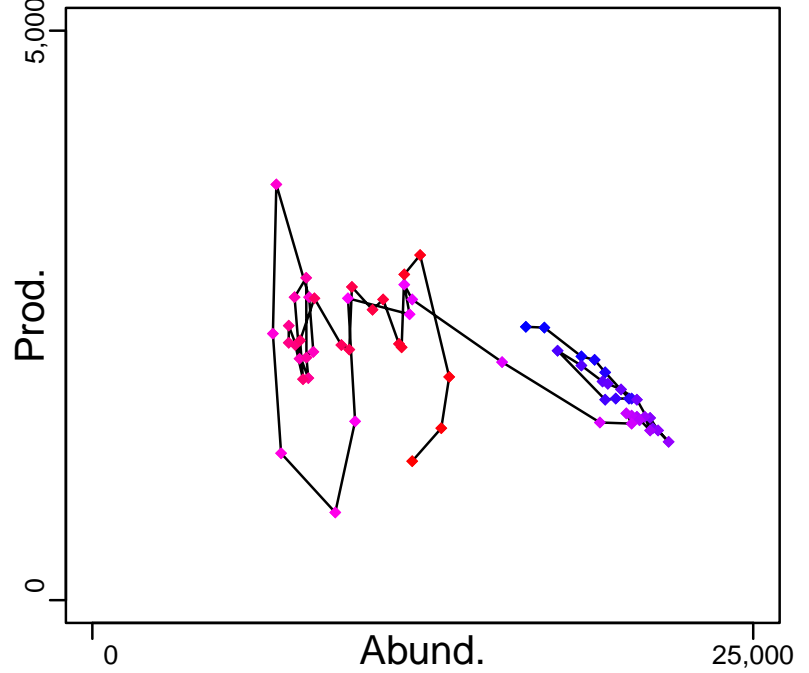
Kobe MSYpref (1950–2012–HIVELY)



Kobe MGTpref (1950–2012–HIVELY)



Production (1950–2012–HIVELY)



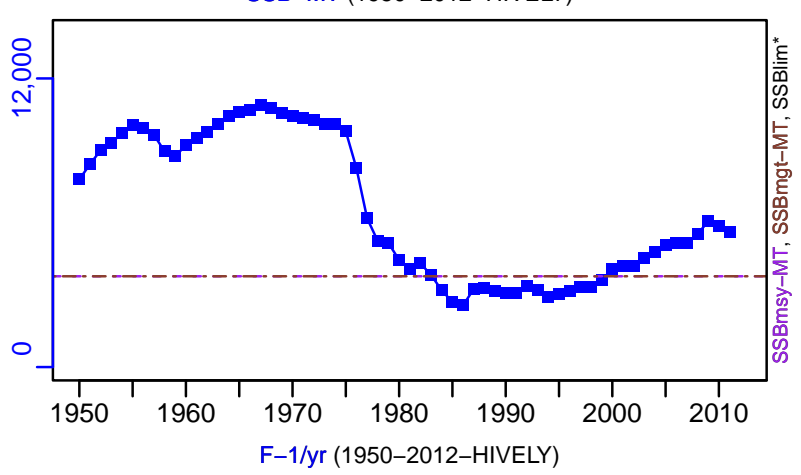
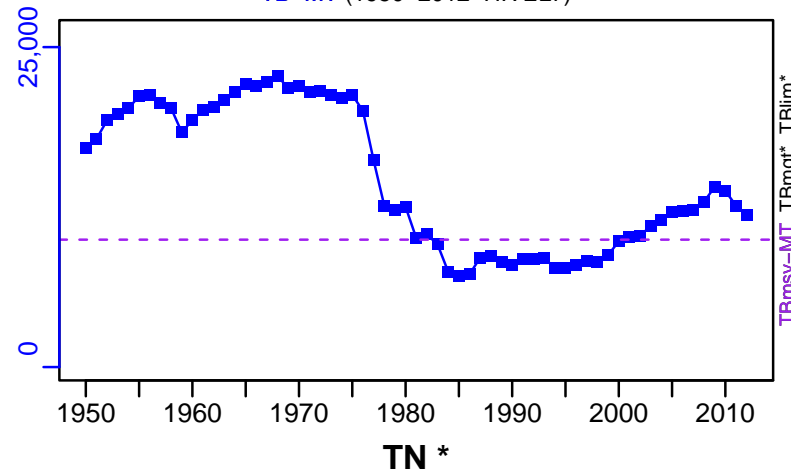
◆ Start Year ◆ End Year \* No Data



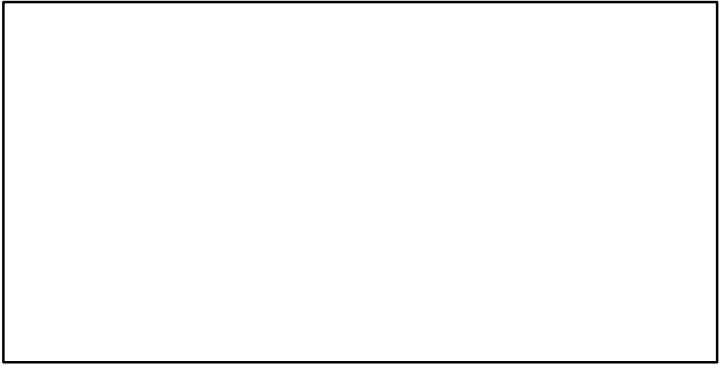
Spanish mackerel Southern Atlantic coast [SPANMACKSATLC]

TB-MT (1950-2012-HIVELY)

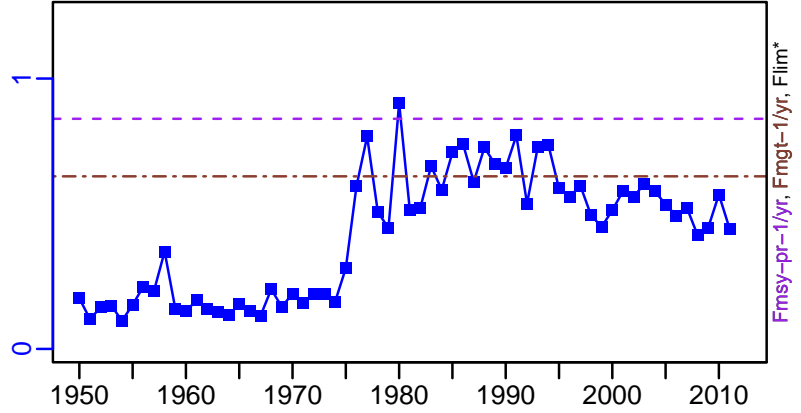
SSB-MT (1950-2012-HIVELY)



TN \*



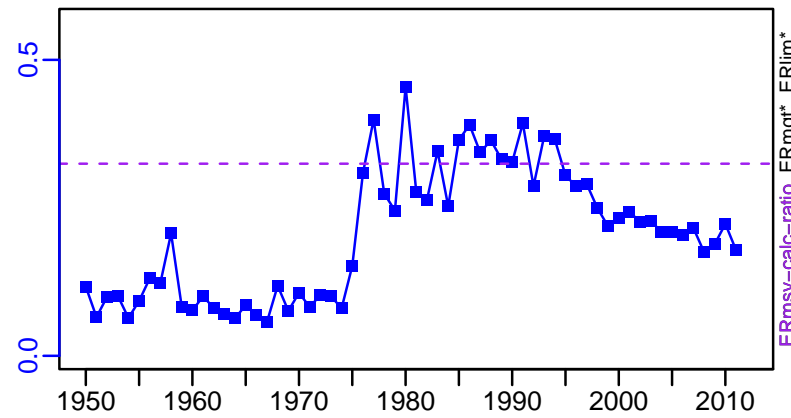
F-1/yr (1950-2012-HIVELY)



Recruits\*



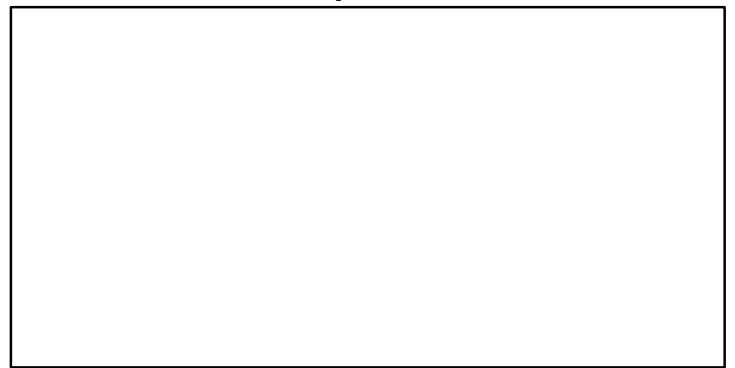
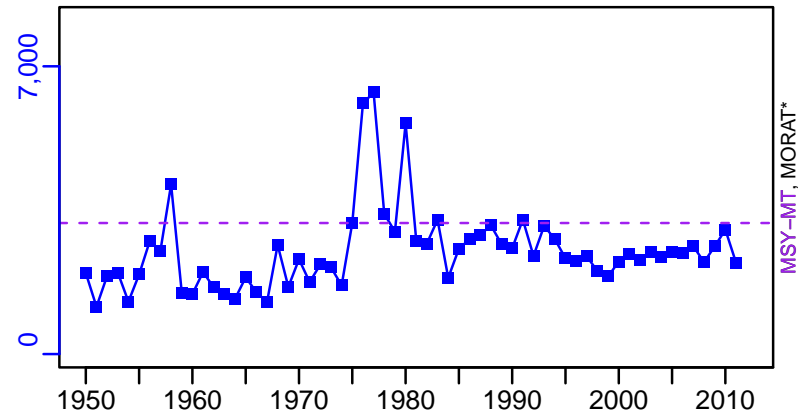
ER-calc-ratio (1950-2012-HIVELY)



Spanish mackerel Southern Atlantic coast [SPANMACKSATLC]

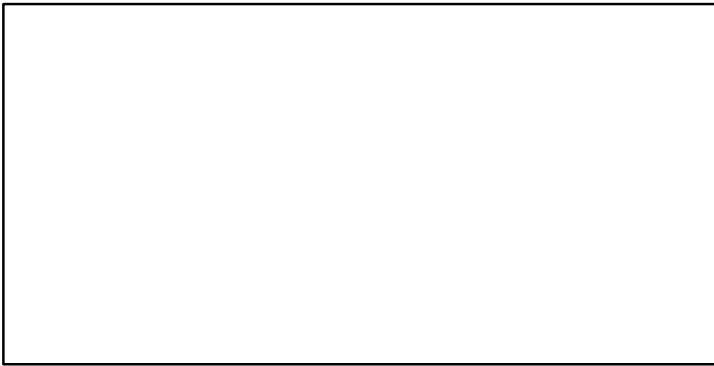
TL-MT, TC\*, RecC\* (1950-2012-HIVELY)

TAC\*, Cpair\*, Cadv\*



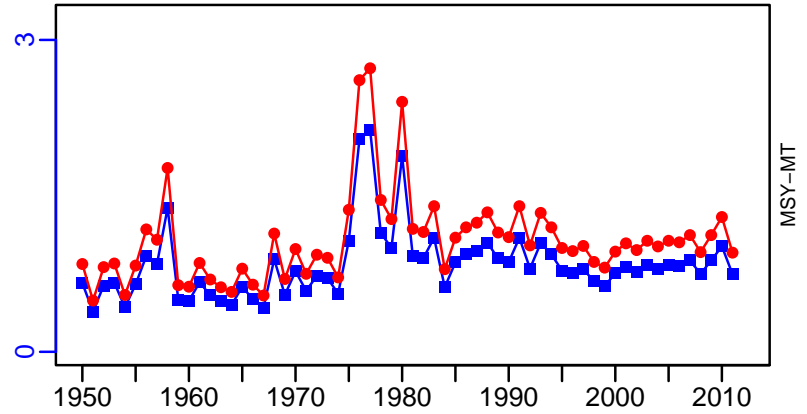
survB\*

CPUE\*



EFFORT\*

TL-MT/MSY-MT, CdivMEANC-ratio, (1950-2012-HIVELY)



## Tilefish Gulf of Mexico [TILEGM]

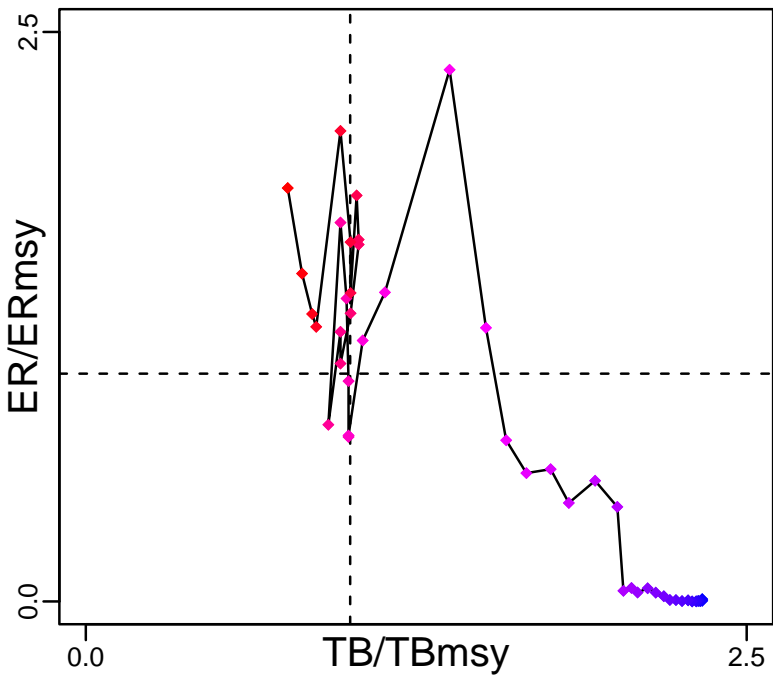
Metadata	
<b>Scientific Name</b>	Lopholatilus chamaeleonticeps
<b>Current Assess ID</b>	SEFSC-TILEGM-1965-2009-HIVELY
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>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

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

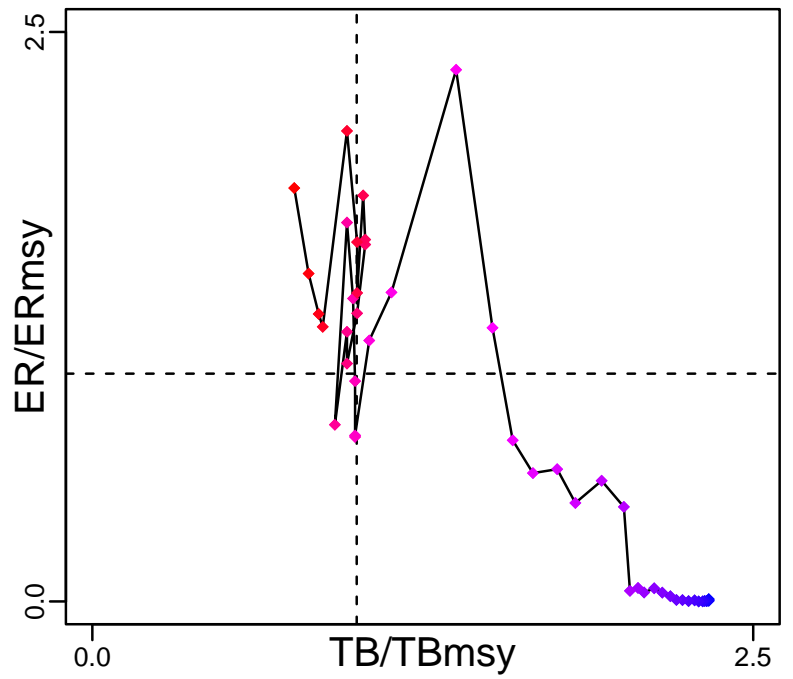
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2009	999	-	-
<b>SSB</b>	SSB-FemaleGonadMT	2009	17	Females	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2009	204,000	-	-
<b>F</b>	F-1/yr	2009	0.17	-	-
<b>ER</b>	ER-calc-ratio	2009	0.186	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2009	186	-	-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

Tilefish Gulf of Mexico [TILEGM]

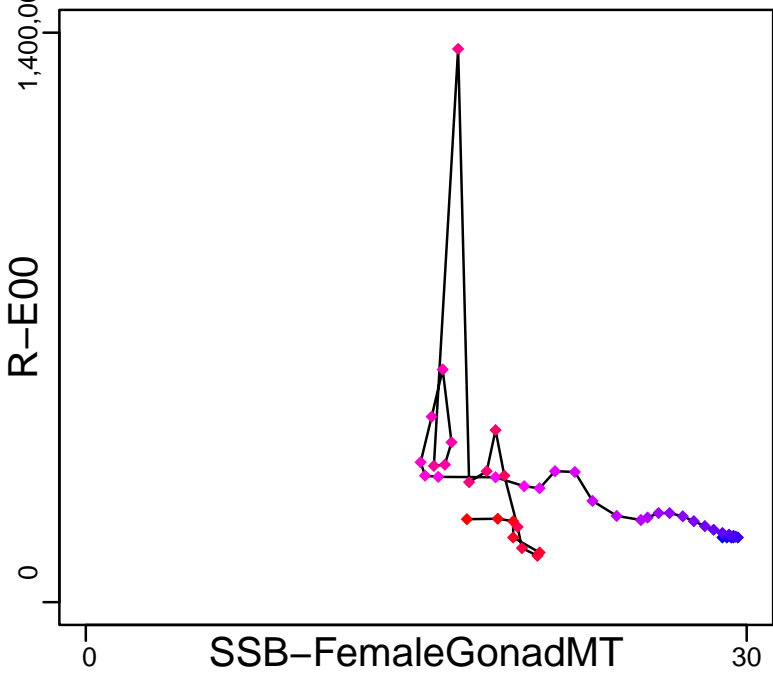
Kobe MSYpref (1965–2009–HIVELY)



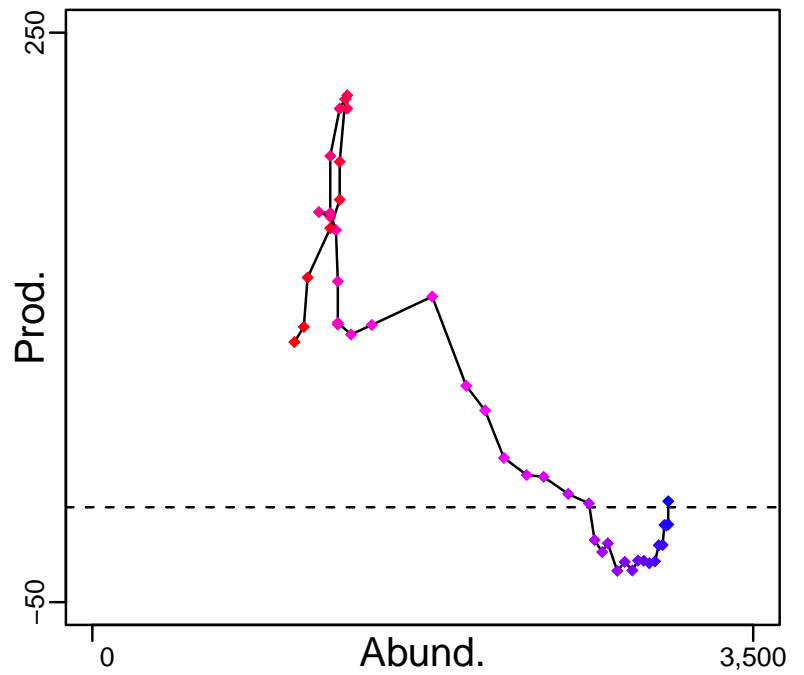
Kobe MGTpref (1965–2009–HIVELY)



Spawner Recruit (1965–2009–HIVELY)



Production (1965–2009–HIVELY)

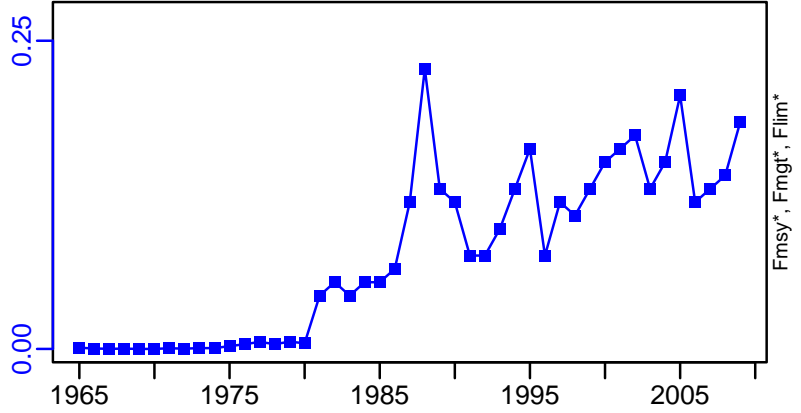
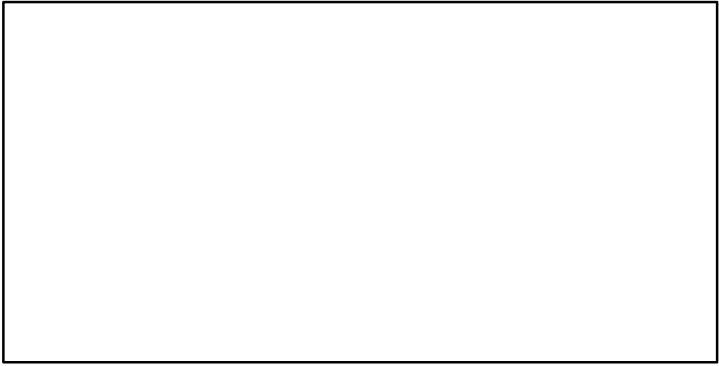
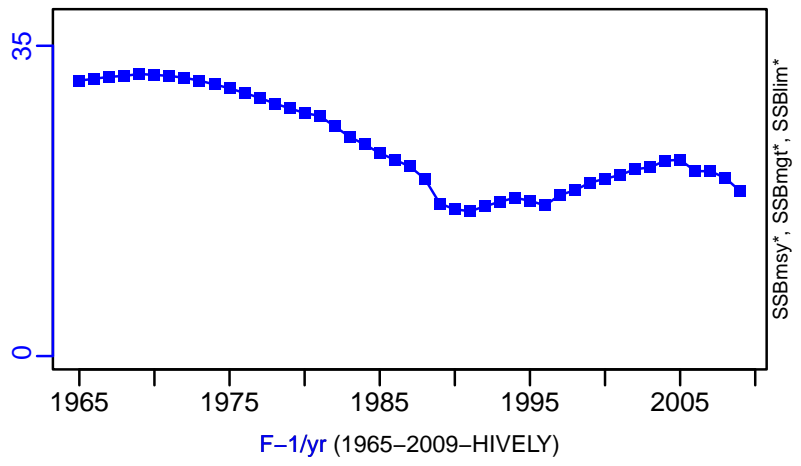
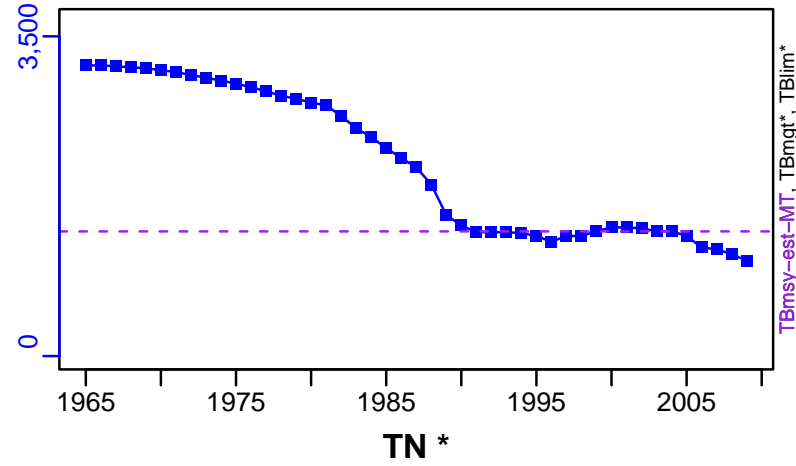


◆ Start Year ◆ End Year \* No Data

Tilefish Gulf of Mexico [TILEGM]

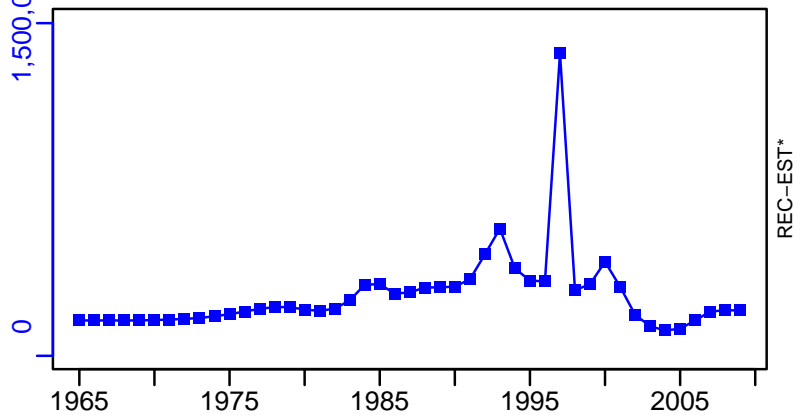
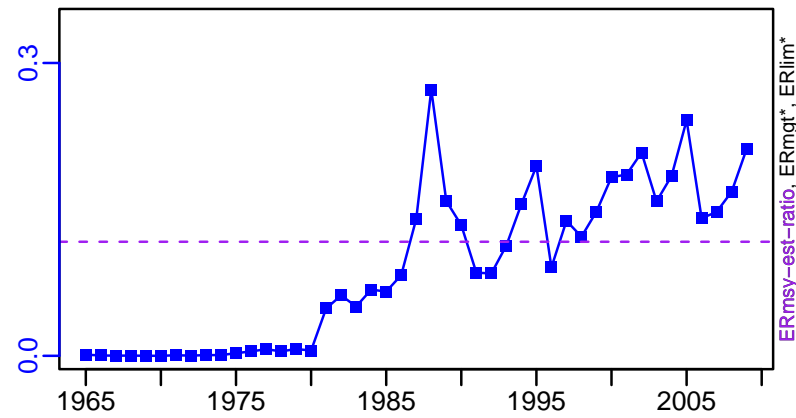
TB-MT (1965-2009-HIVELY)

SSB-FemaleGonadMT (1965-2009-HIVELY)



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

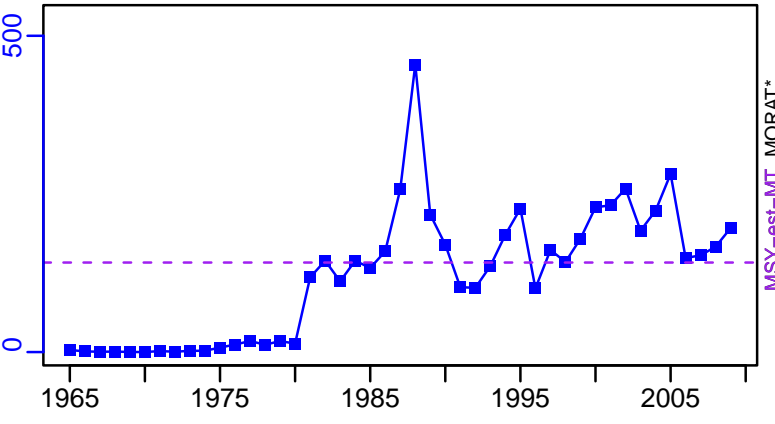
R-E00 (1965-2009-HIVELY)



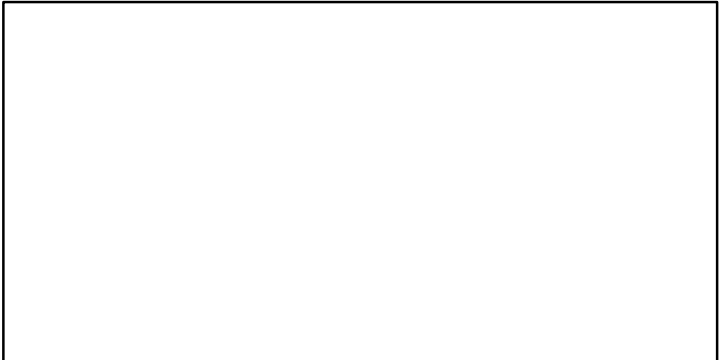
**Tilefish Gulf of Mexico [TILEGM]**

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

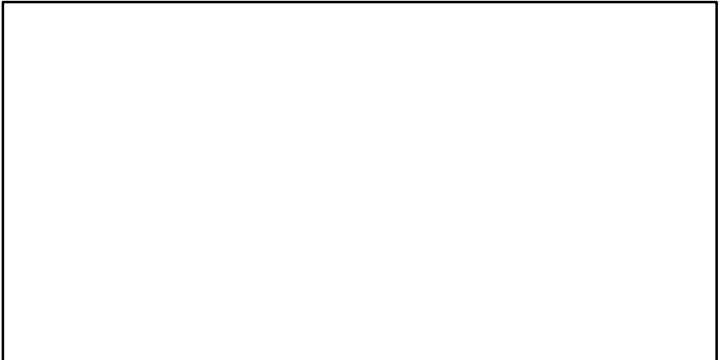
**TAC\*, Cpair\*, Cadv\***



**survB\***



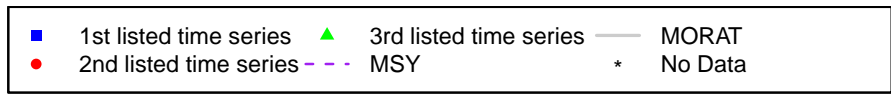
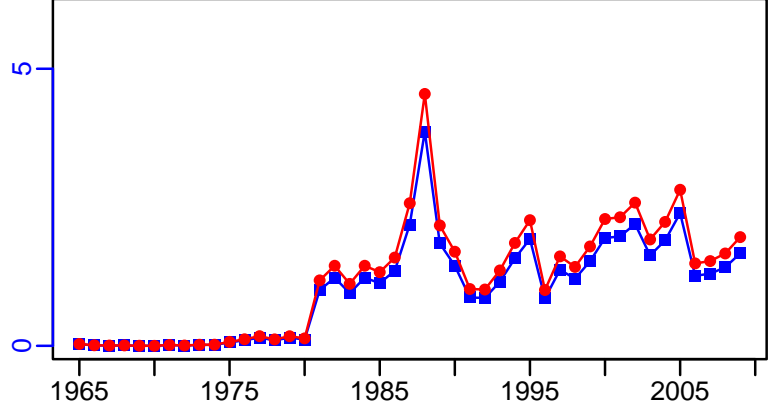
**CPUE\***



**EFFORT\***



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



## Tilefish Southern Atlantic coast [TILESATLC]

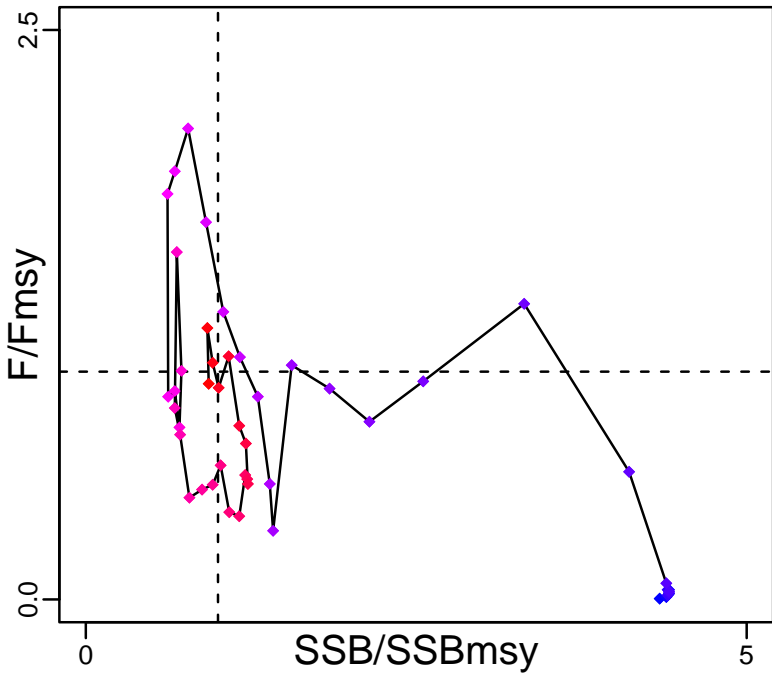
Metadata	
<b>Scientific Name</b>	Lopholatilus chamaeleonticeps
<b>Current Assess ID</b>	SEFSC-TILESATLC-1972-2018-SISIMP2021-2
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
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

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

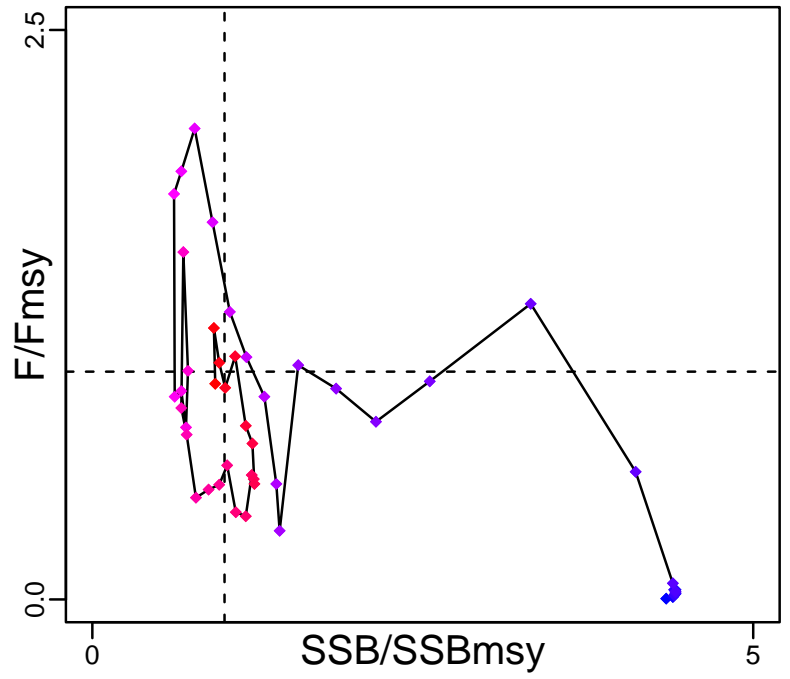
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	5240	-	-
<b>SSB</b>	SSB-FemaleGonadMT	2018	18	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	308,000	-	1
<b>F</b>	F-1/yr	2018	0.267	-	-
<b>ER</b>	ER-calc-ratio	2011	0.052	-	-
<b>TC</b>	TC-MT	2018	153		
<b>TL</b>	TL-MT	2011	275		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

Tilefish Southern Atlantic coast [TILESATLC]

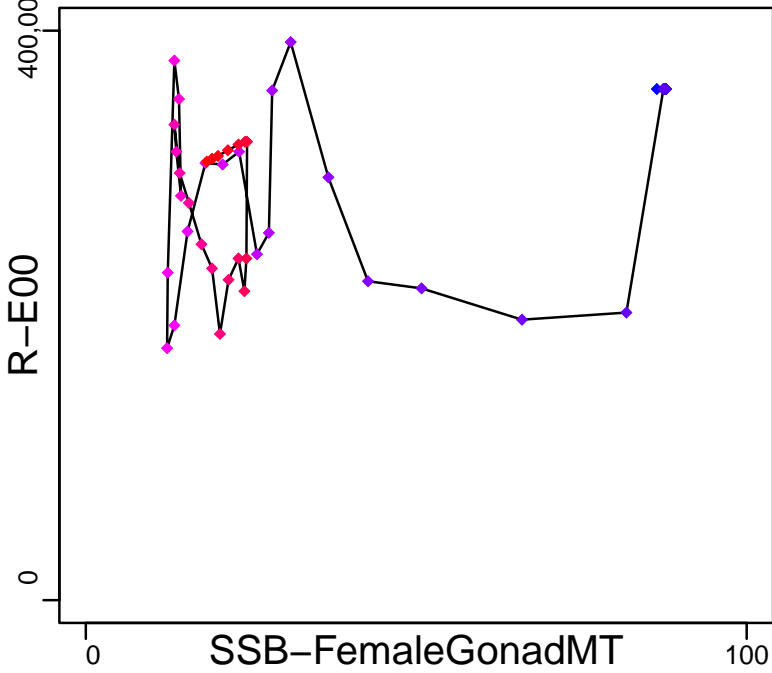
Kobe MSYpref (1972–2018–SISIMP2021–2)



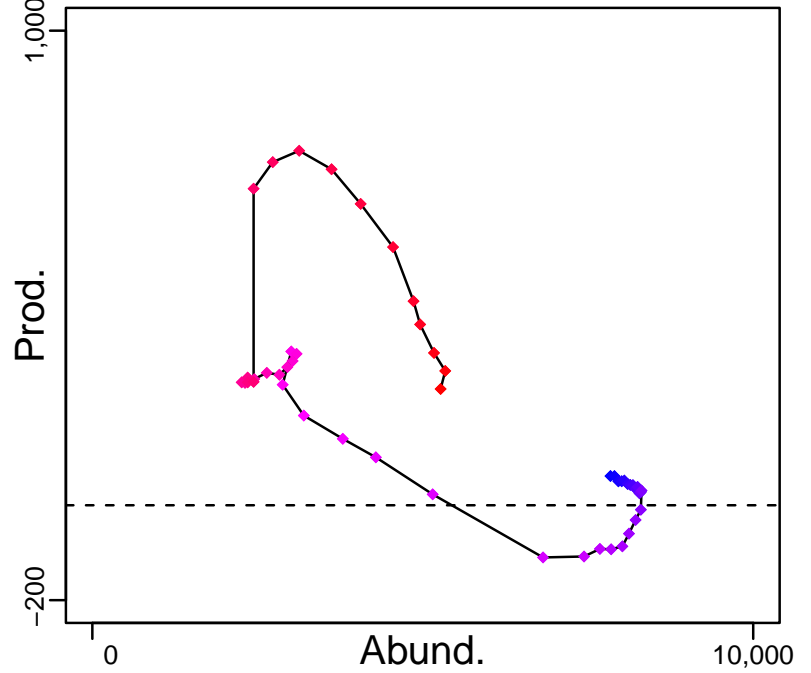
Kobe MGTpref (1972–2018–SISIMP2021–2)



Spawner Recruit (1972–2018–SISIMP2021–2)



Production (1961–2011–HIVELY)



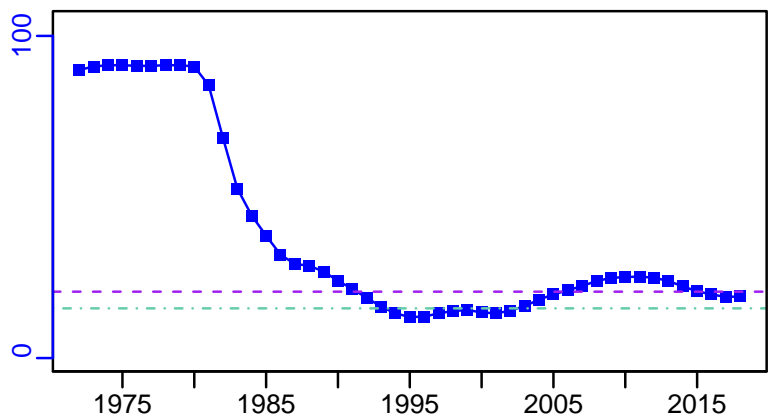
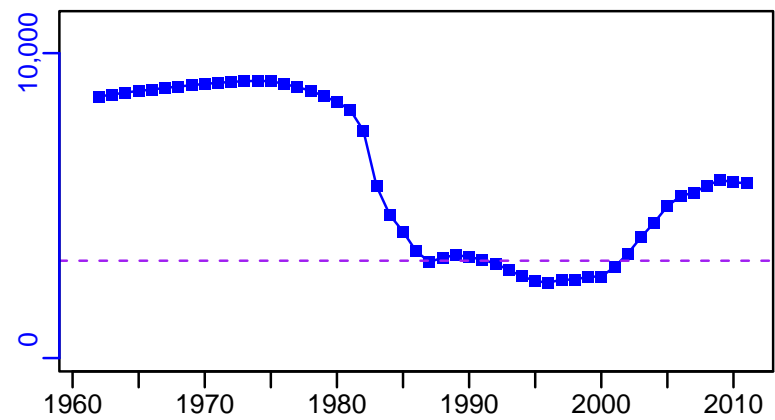
◆ Start Year ◆ End Year \* No Data



Tilefish Southern Atlantic coast [TILESATLC]

TB-MT (1961-2011-HIVELY)

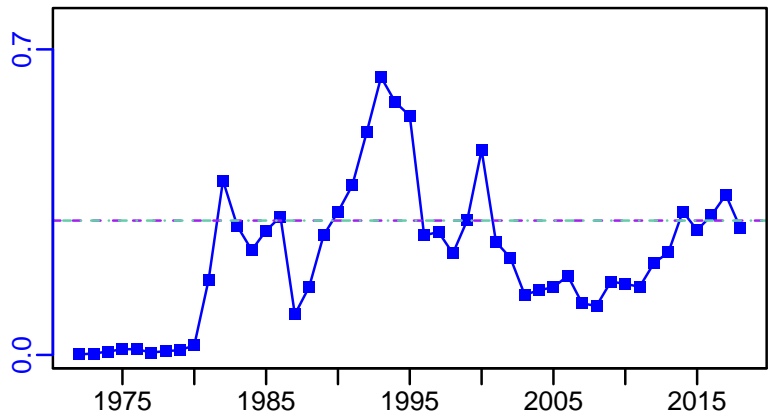
SSB-FemaleGonadMT (1972-2018-SISIMP2021-2)



TN \*

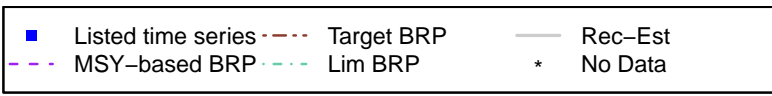
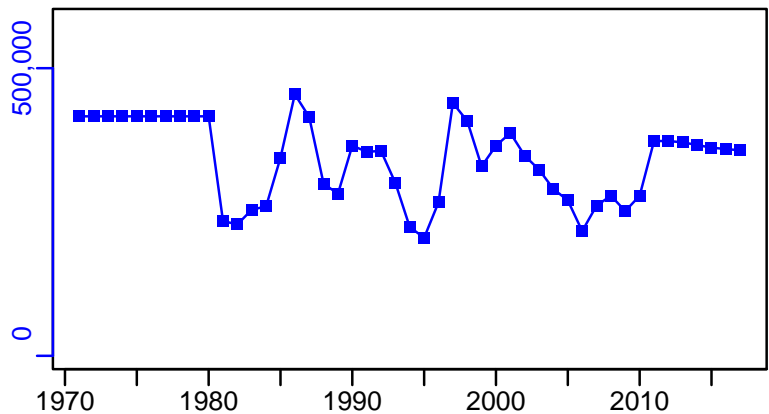
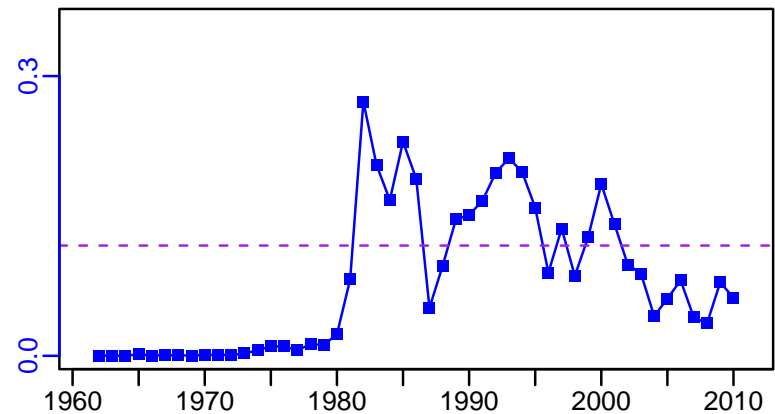


F-1/yr (1972-2018-SISIMP2021-2)



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

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



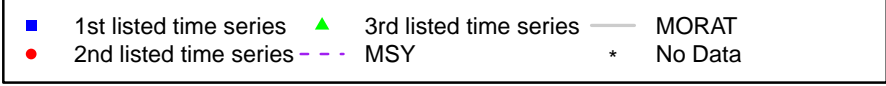
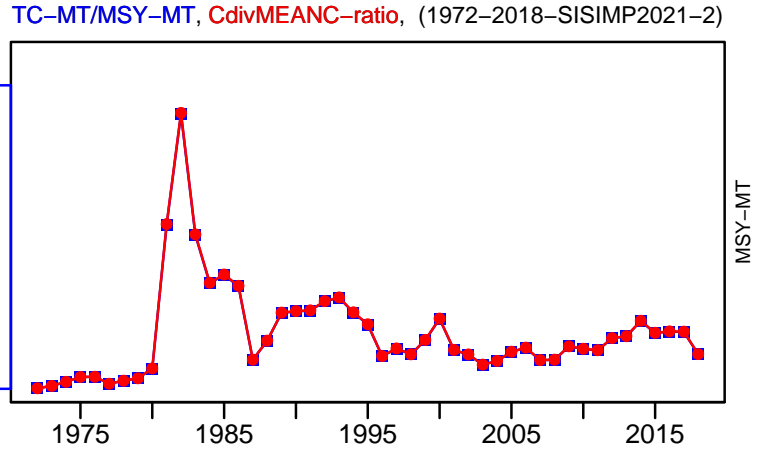
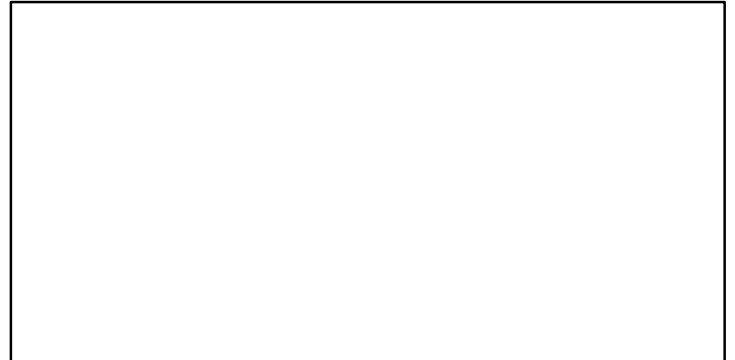
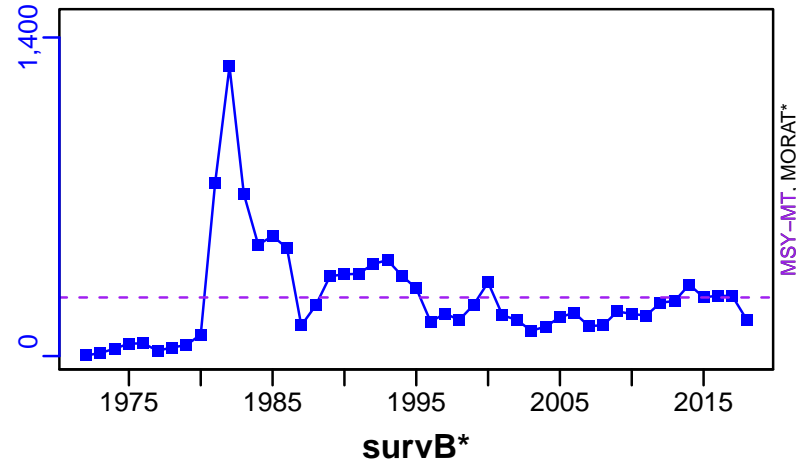
SSBmsy-FemaleGonadMT, SSBlim-FemaleGonadMT, Fmsy-1/yr, Flim-1/yr

REC-EST\*

**Tilefish Southern Atlantic coast [TILESATLC]**

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

TAC\*, Cpair\*, Cadv\*



## Vermilion snapper Gulf of Mexico [VSNAPGM]

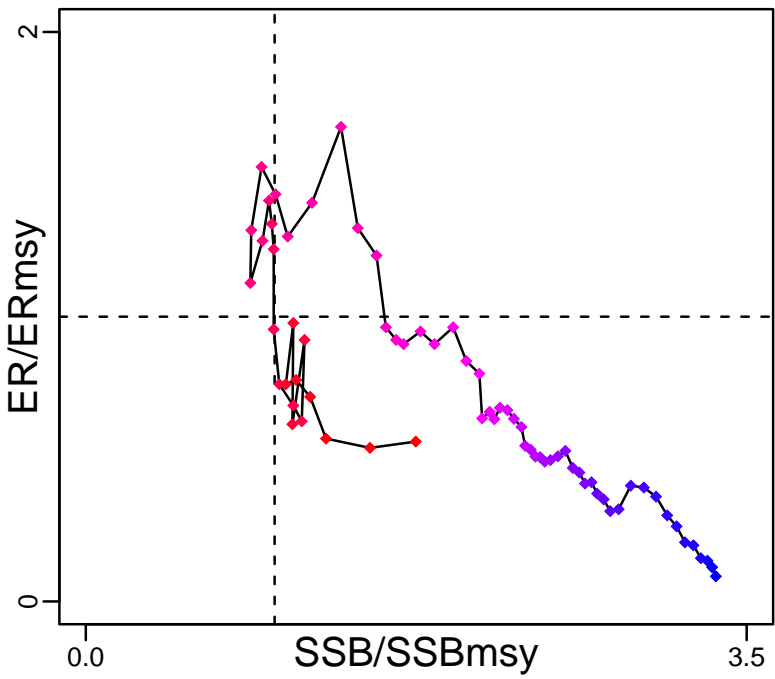
Metadata	
<b>Scientific Name</b>	Rhomboplites aurorubens
<b>Current Assess ID</b>	SEFSC-VSNAPGM-1950-2017-SISIMP2021-2
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>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

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

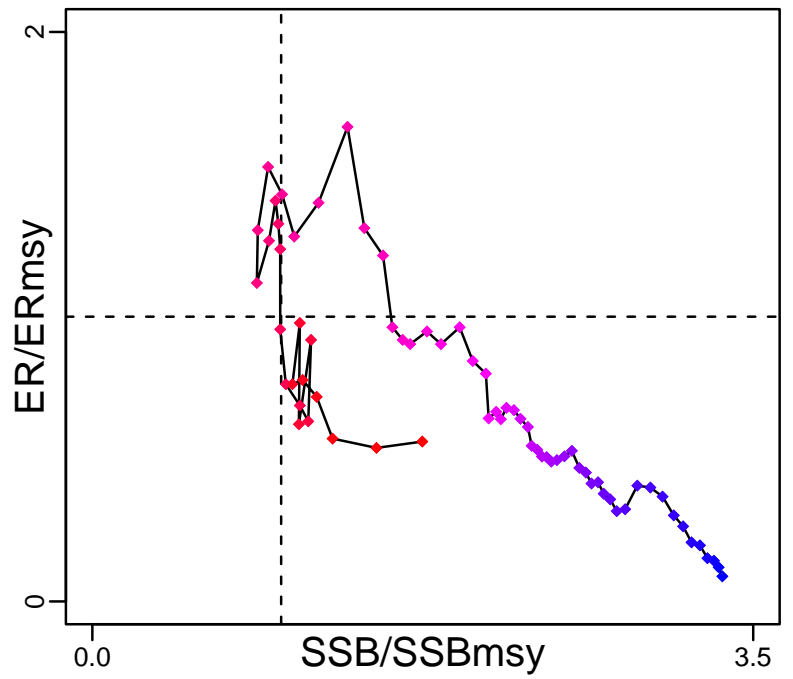
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	11,500	-	1+
<b>SSB</b>	SSB-E00eggs	2017	$3.53 \times 10^{14}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	21,200,000	-	0
<b>F</b>	F-1/yr	2014	0.239	-	-
<b>ER</b>	ER-ratio	2017	0.076	-	-
<b>TC</b>	TC-MT	2017	2810		
<b>TL</b>	-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

Vermilion snapper Gulf of Mexico [VSNAPGM]

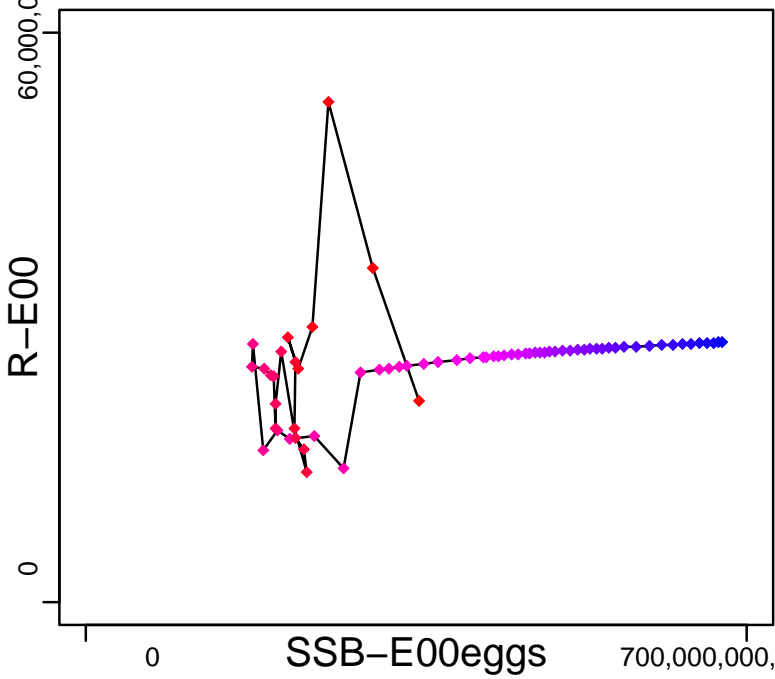
Kobe MSYpref (1950–2017–SISIMP2021–2)



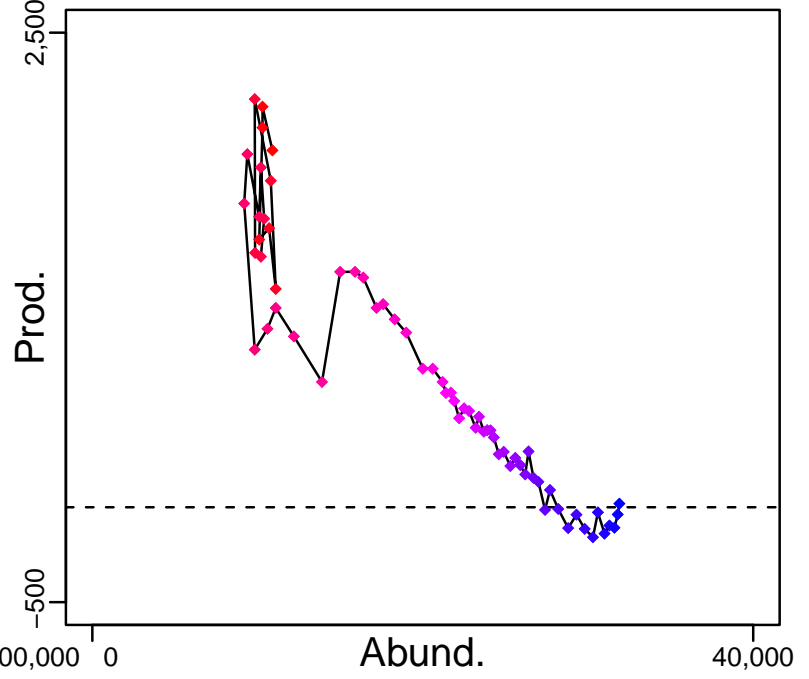
Kobe MGTpref (1950–2017–SISIMP2021–2)



Spawner Recruit (1950–2017–SISIMP2021–2)



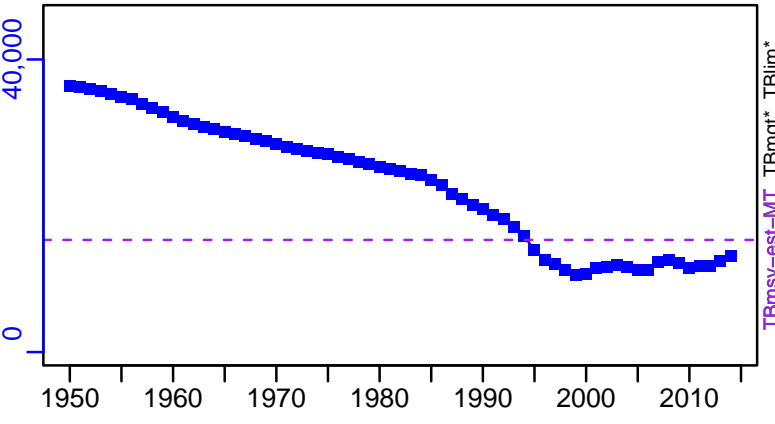
Production (1950–2014–SISIMP2016)



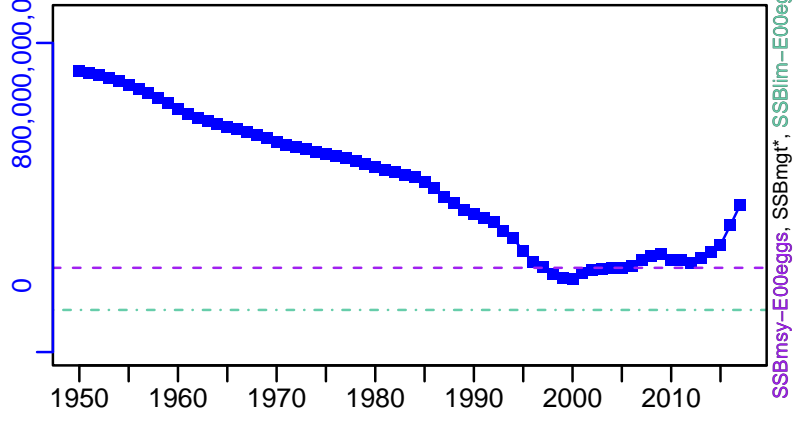
◆ Start Year ◆ End Year \* No Data

### Vermilion snapper Gulf of Mexico [VSNA<sub>PGM</sub>]

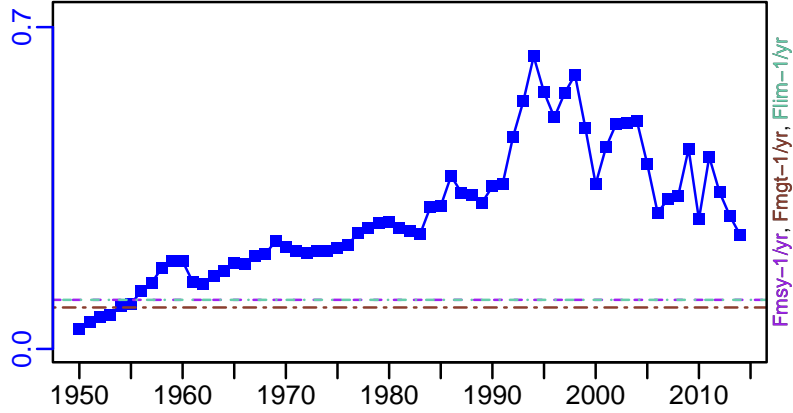
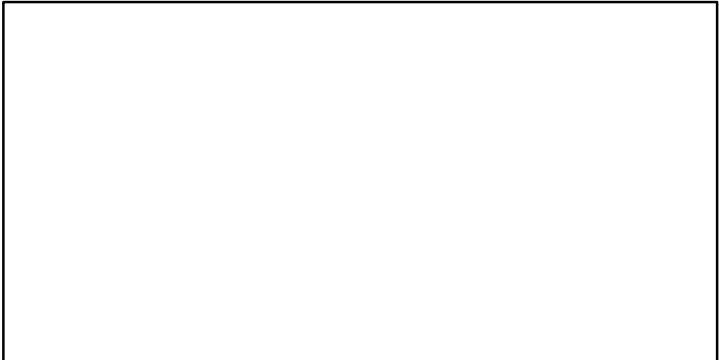
TB-MT (1950-2014-SISIMP2016)



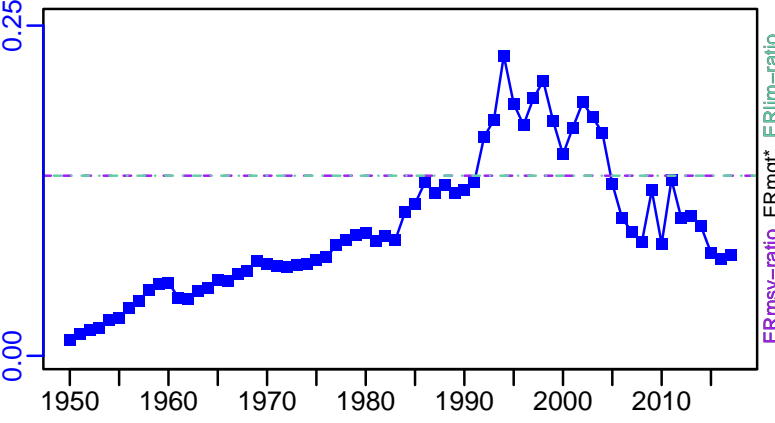
SSB-E00eggs (1950-2017-SISIMP2021-2)



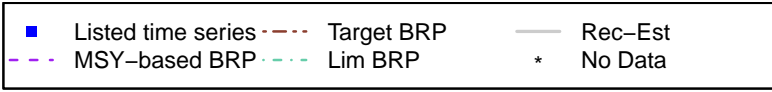
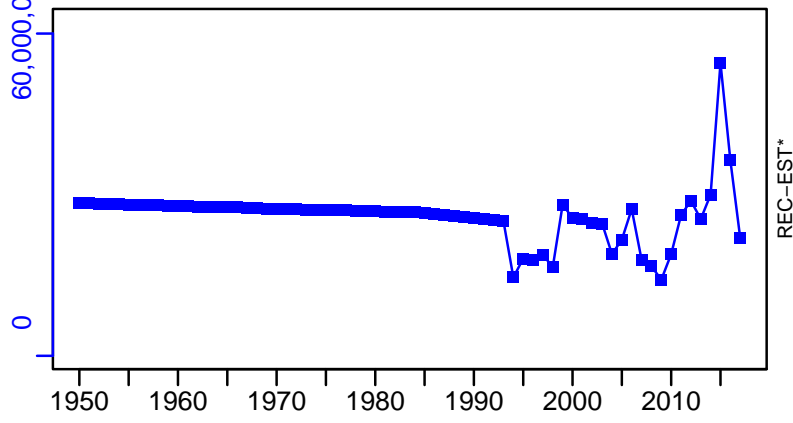
F-1/yr (1950-2014-SISIMP2016)



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



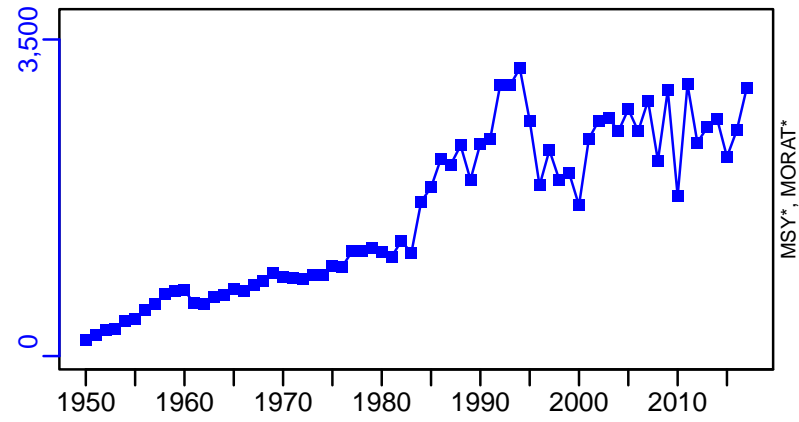
R-E00 (1950-2017-SISIMP2021-2)



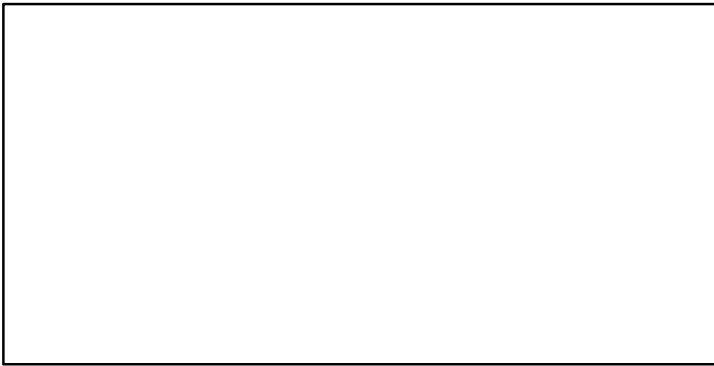
Vermilion snapper Gulf of Mexico [VSNAPGM]

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

TAC\*, Cpair\*, Cadv\*



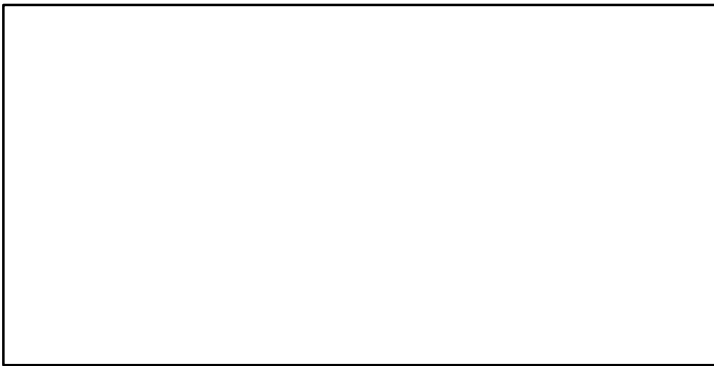
survB\*



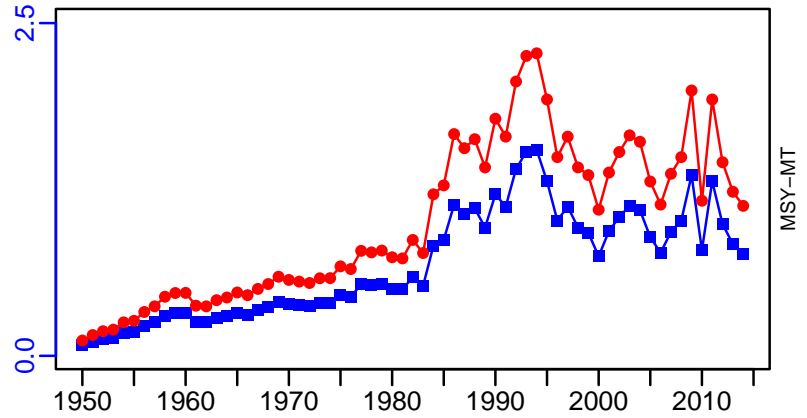
CPUE\*



EFFORT\*



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



## Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

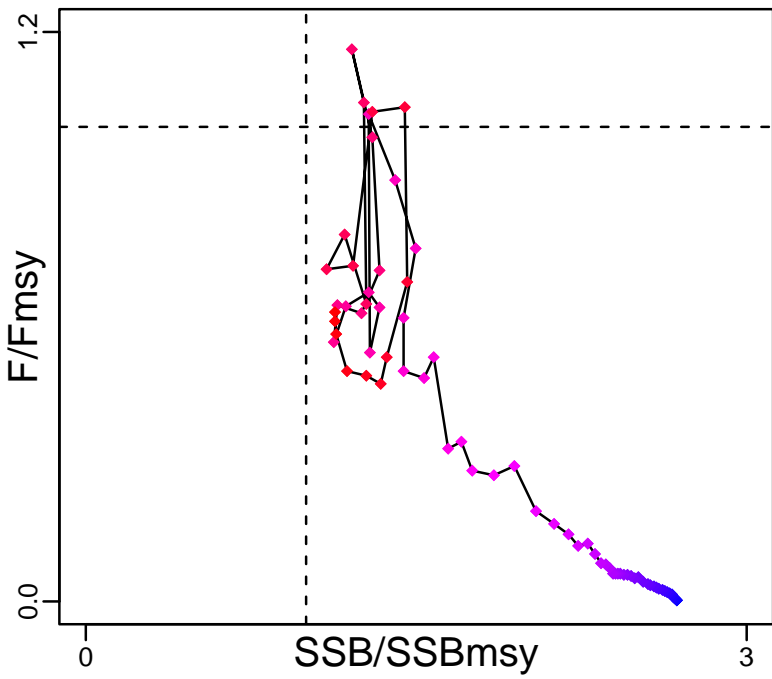
Metadata	
<b>Scientific Name</b>	Rhomboplites aurorubens
<b>Current Assess ID</b>	SEFSC-VSNAPSATLC-1945-2016-SISIMP2021
<b>Area</b>	Southern Atlantic coast
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts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

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

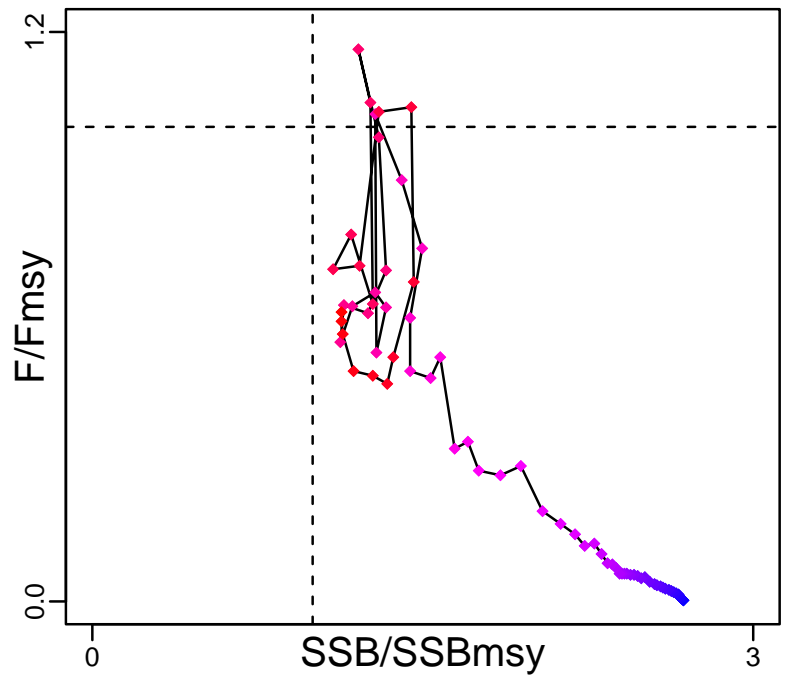
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2012	2120	-	-
<b>SSB</b>	SSB-E00eggs	2016	$2.07 \times 10^{13}$	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	5,501,271	-	1
<b>F</b>	F-1/yr	2016	0.25	-	-
<b>ER</b>	ER-calc-ratio	2012	0.296	-	-
<b>TC</b>	TC-MT	2016	573		
<b>TL</b>	TL-MT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

Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

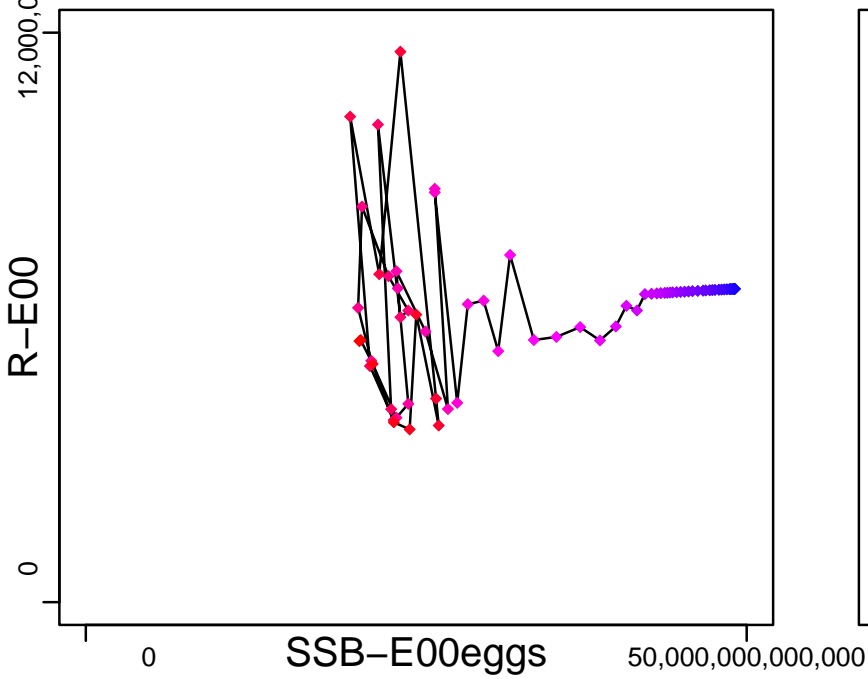
Kobe MSYpref (1945–2016–SISIMP2021)



Kobe MGTpref (1945–2016–SISIMP2021)



Spawner Recruit (1945–2016–SISIMP2021)



Production\*

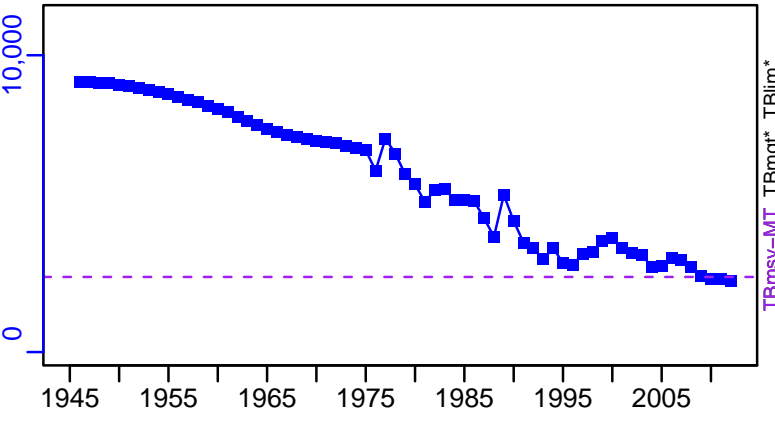


◆ Start Year ◆ End Year \* No Data

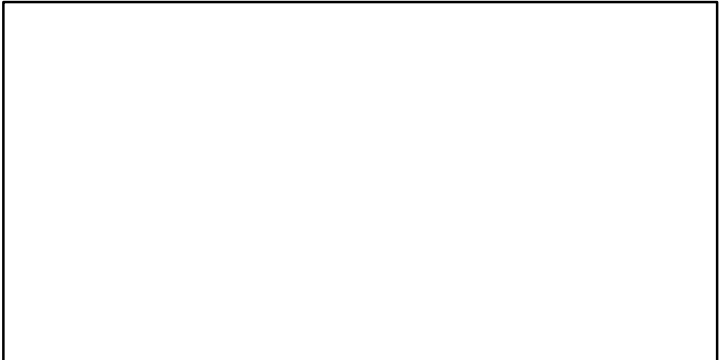


Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

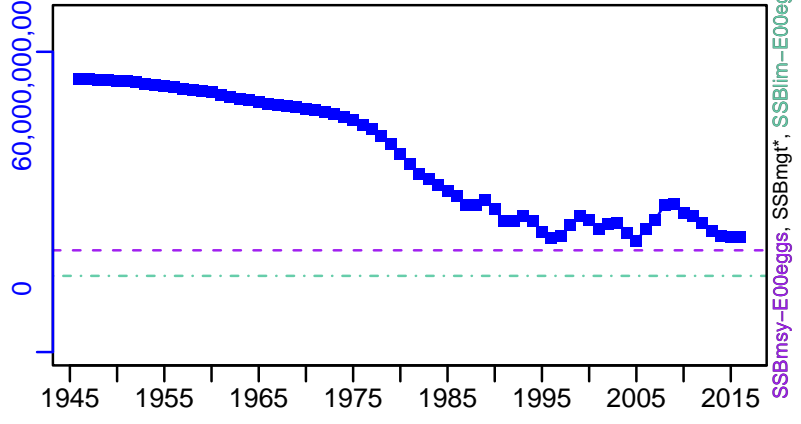
TB-MT (1945-2012-HIVELY)



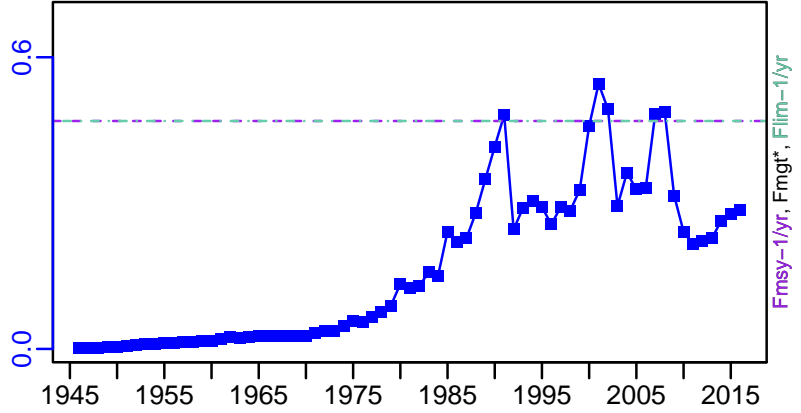
TN \*



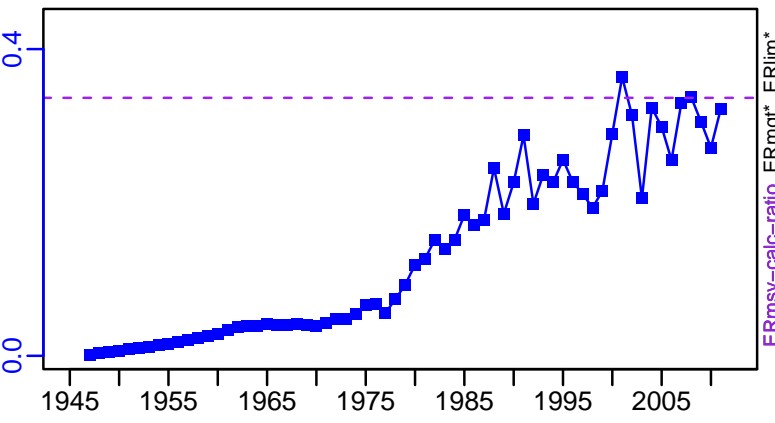
SSB-E00eggs (1945-2016-SISIMP2021)



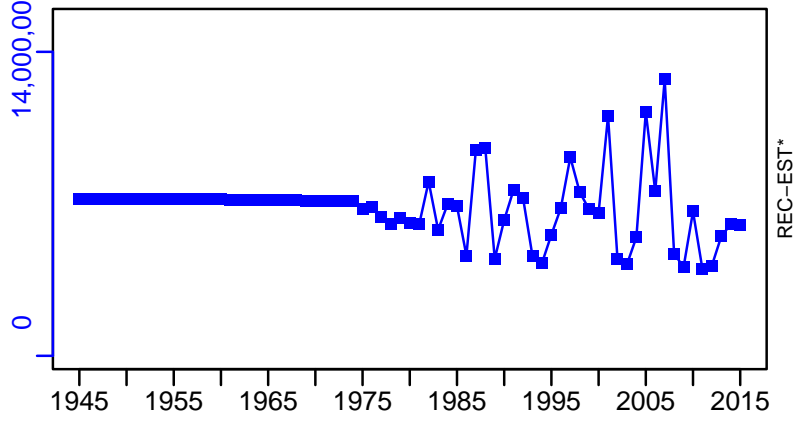
F-1/yr (1945-2016-SISIMP2021)



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



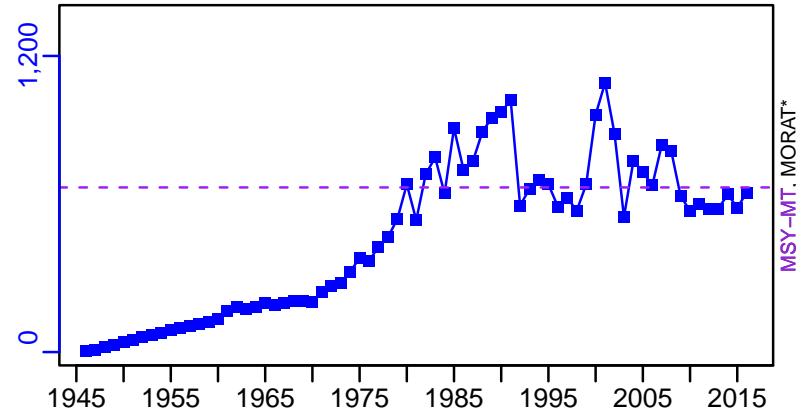
R-E00 (1945-2016-SISIMP2021)



Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

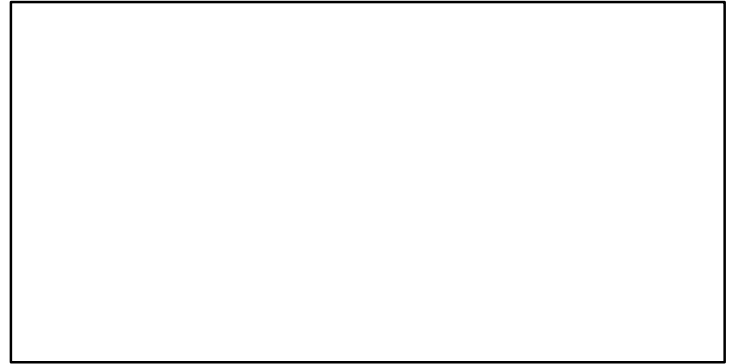
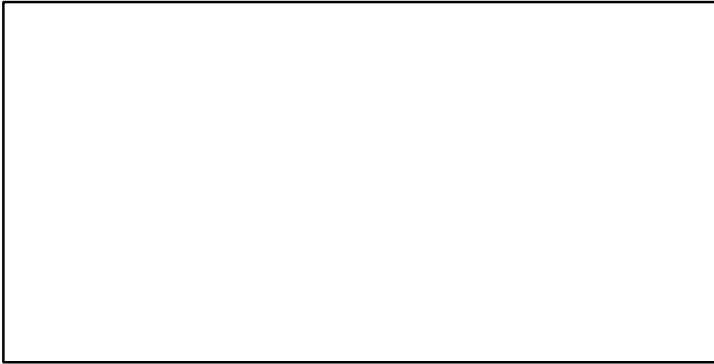
TC-MT, TL\*, RecC\* (1945-2016-SISIMP2021)

TAC\*, Cpair\*, Cadv\*



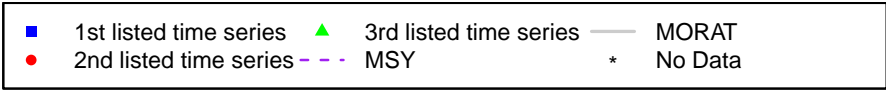
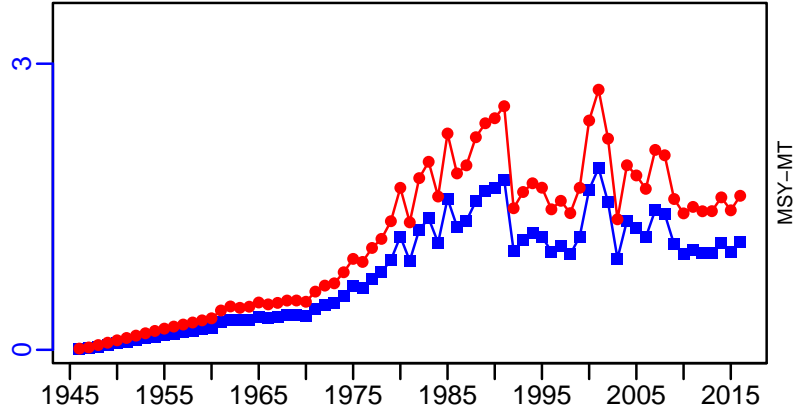
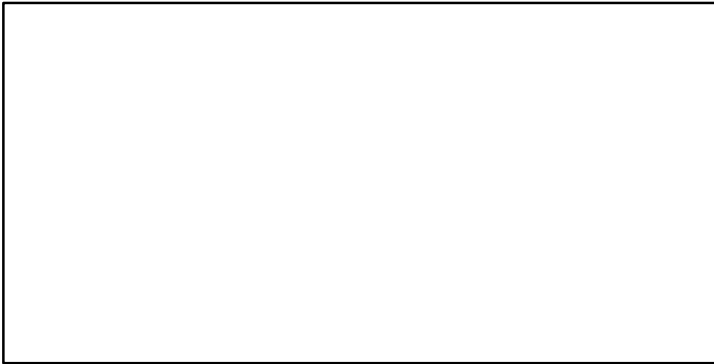
survB\*

CPUE\*



EFFORT\*

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



## White shrimp Gulf of Mexico [WSHRIMPGM]

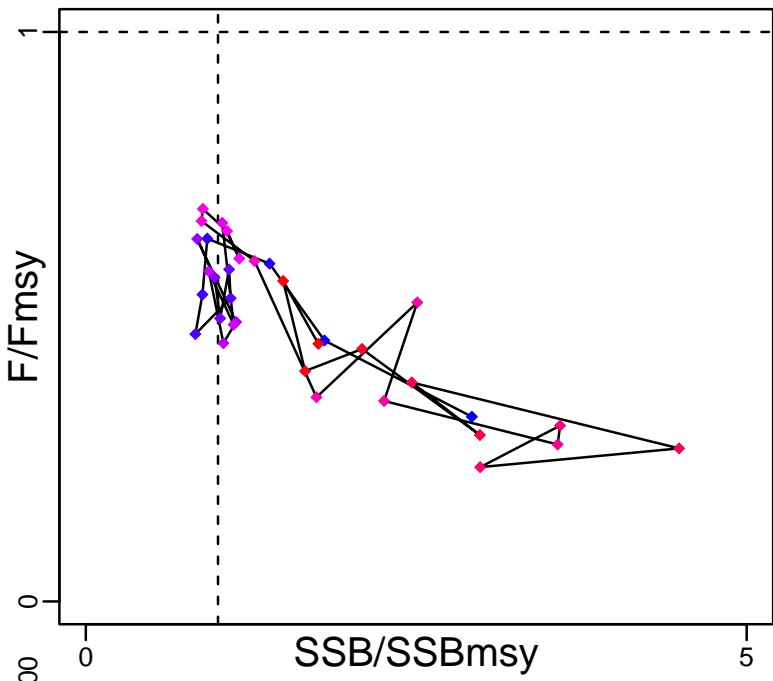
Metadata	
<b>Scientific Name</b>	Litopenaeus setiferus
<b>Current Assess ID</b>	SEFSC-WSHRIMPGM-1984-2017-SISIMP2021
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>	2011, 2014, 2015, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2017	165,879
<b>Fmsy</b>	Fmsy-1/yr	2017	3.48
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2015	165,879
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

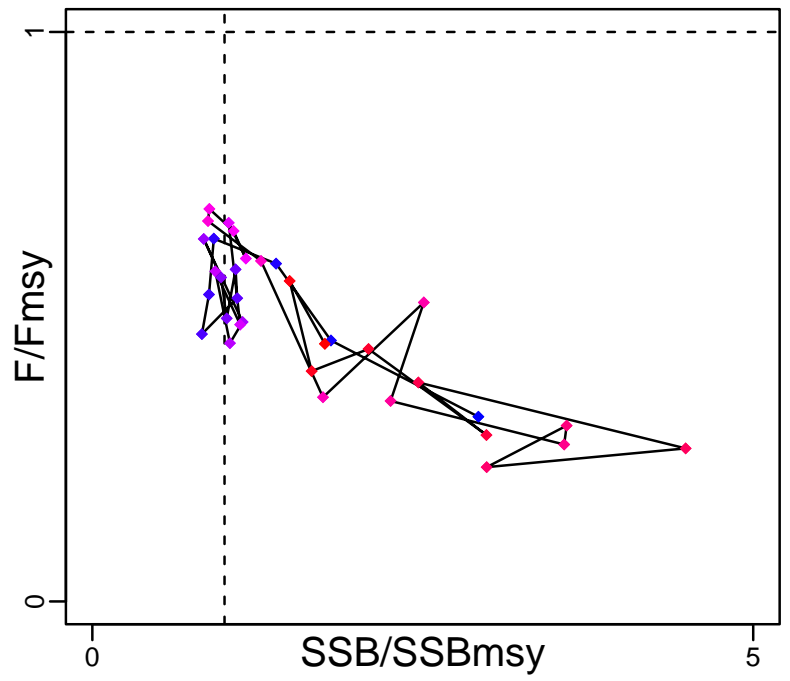
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2017	291,827	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	16,275,764,420	-	-
<b>F</b>	F-1/yr	2017	1.574	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2017	32,046		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2017	1.759		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	0.452		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

White shrimp Gulf of Mexico [WSHRIMPGM]

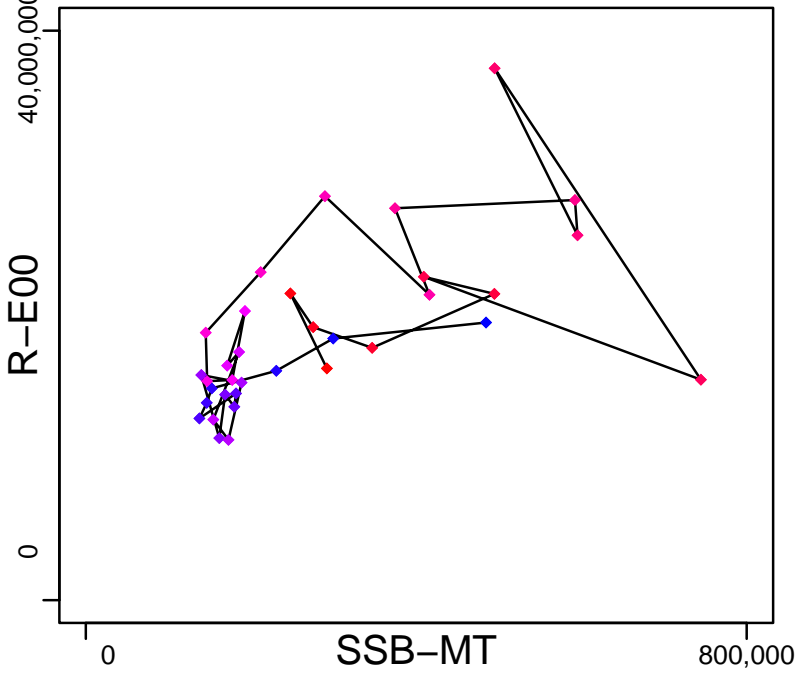
Kobe MSYpref (1984–2017–SISIMP2021)



Kobe MGTpref (1984–2017–SISIMP2021)



Spawner Recruit (1984–2017–SISIMP2021)



Production\*



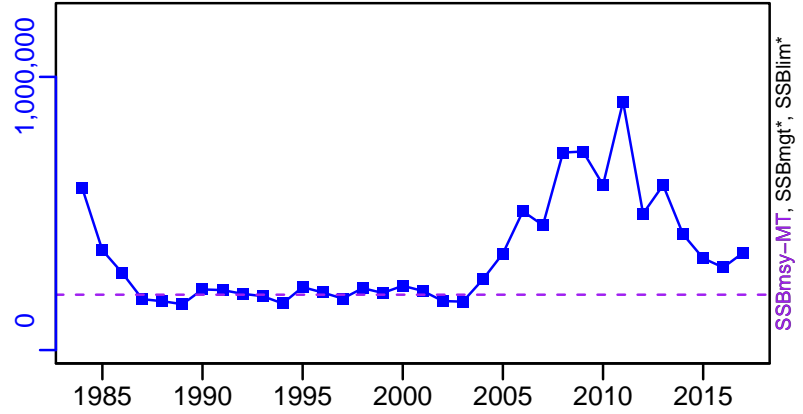
◆ Start Year ◆ End Year \* No Data

White shrimp Gulf of Mexico [WSHRIMPGM]

TB\*



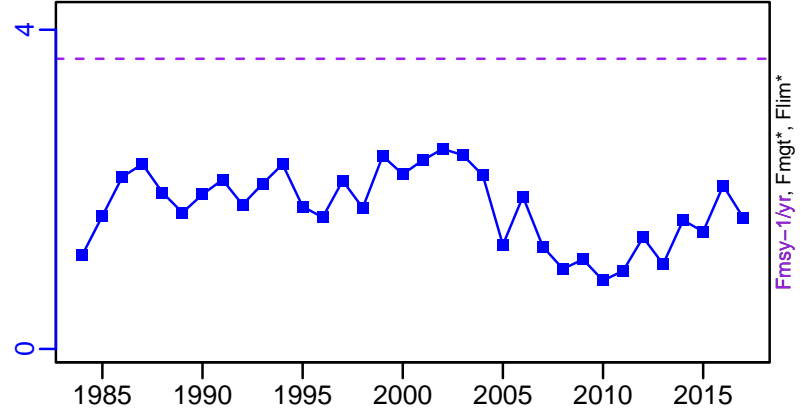
SSB-MT (1984-2017-SISIMP2021)



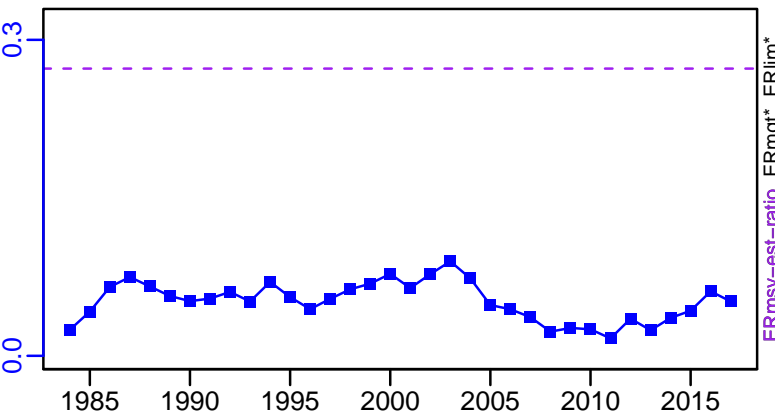
TN \*



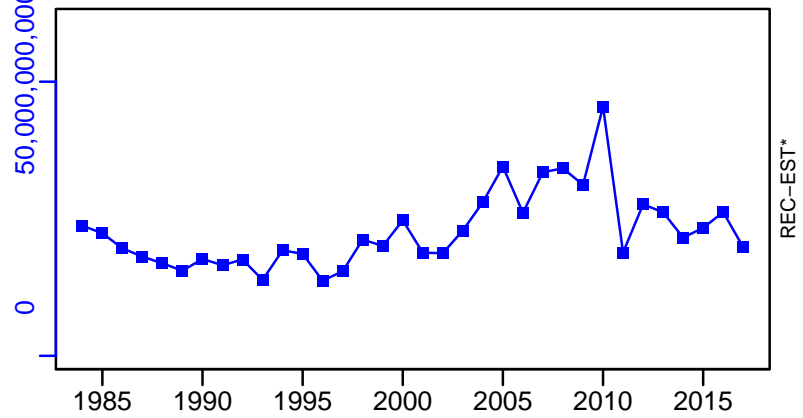
F-1/yr (1984-2017-SISIMP2021)



ER-calc-ratio (1984-2017-SISIMP2021)



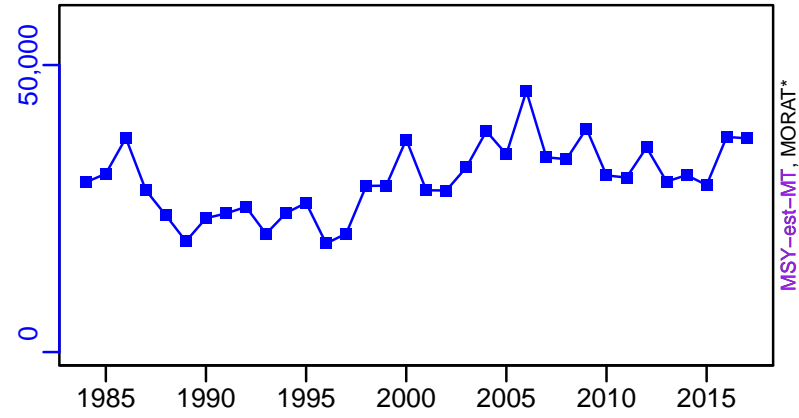
R-E00 (1984-2017-SISIMP2021)



White shrimp Gulf of Mexico [WSHRIMPGM]

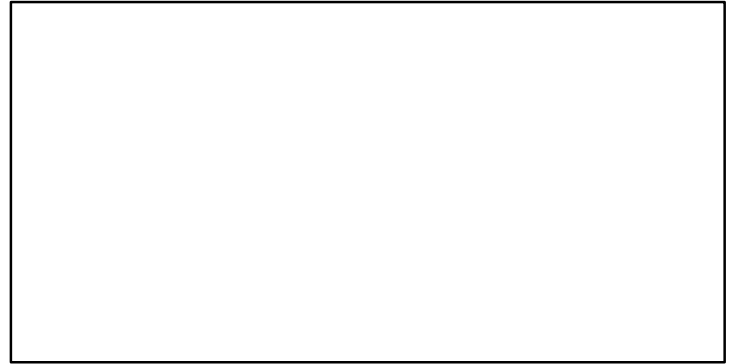
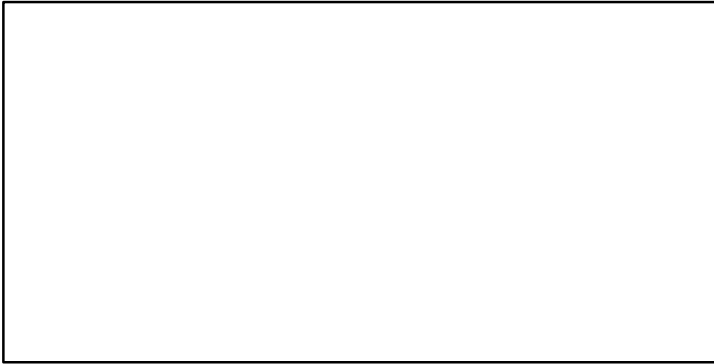
TC-MT, TL\*, RecC\* (1984-2017-SISIMP2021)

TAC\*, Cpair\*, Cadv\*



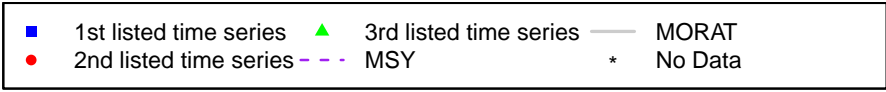
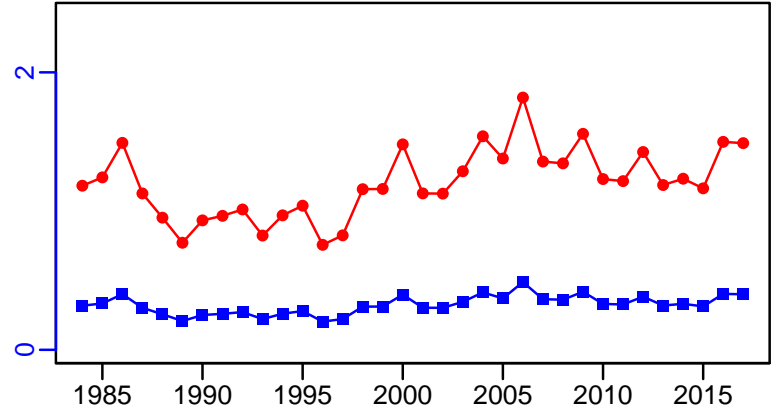
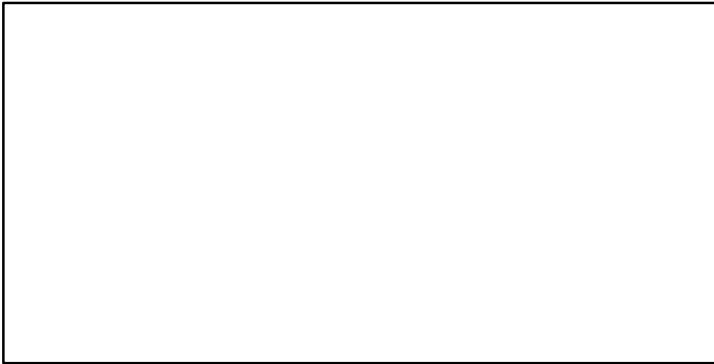
survB\*

CPUE\*



EFFORT\*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (1984-2017-SISIMP2021)



## Yellowedge grouper Gulf of Mexico [YEGROUPGM]

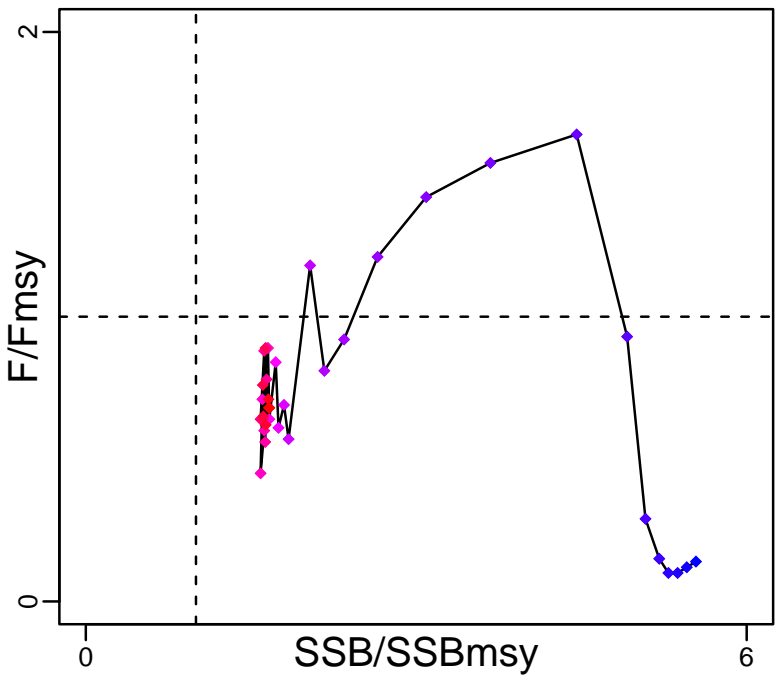
Metadata	
<b>Scientific Name</b>	Epinephelus flavolimbatus
<b>Current Assess ID</b>	SEFSC-YEGROUPGM-1975-2009-HIVELY
<b>Area</b>	Gulf of Mexico
<b>Management Authority</b>	National Marine Fisheries Service, US national management
<b>Assessor</b>	Southeast Fisheries Science Center
<b>Asmts in RAM</b>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

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

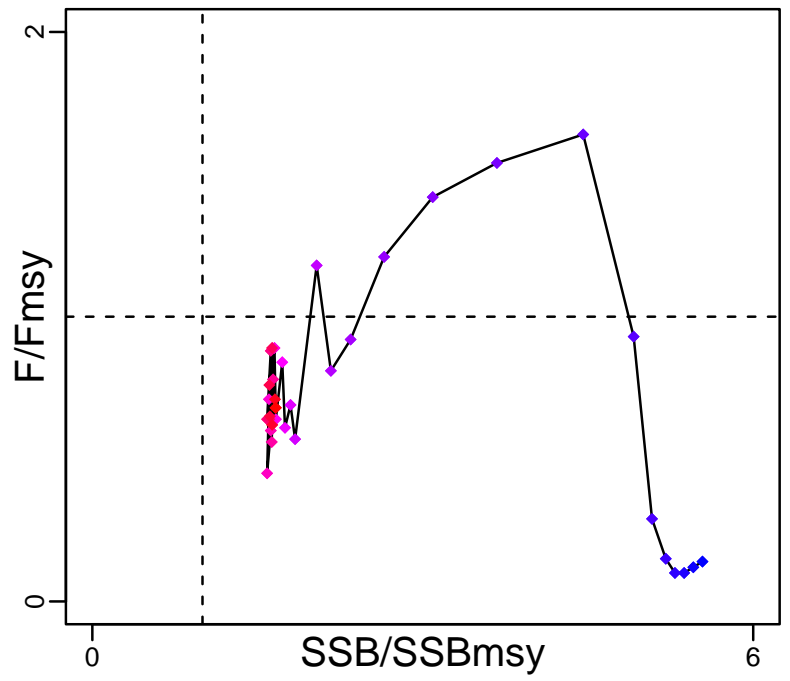
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2009	5530	-	-
<b>SSB</b>	SSB-MT	2009	4000	Both	8+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2009	801,000	-	-
<b>F</b>	F-1/yr	2009	0.068	-	-
<b>ER</b>	ER-calc-ratio	2009	0.068	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2009	376	-	-
<b>TB/TBmsy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

Yellowedge grouper Gulf of Mexico [YEGROUPGM]

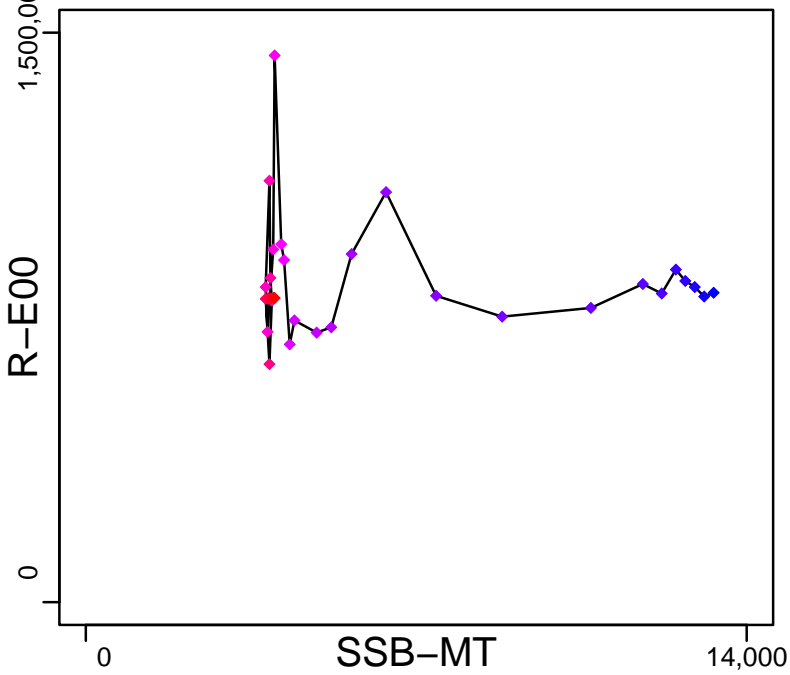
Kobe MSYpref (1975–2009–HIVELY)



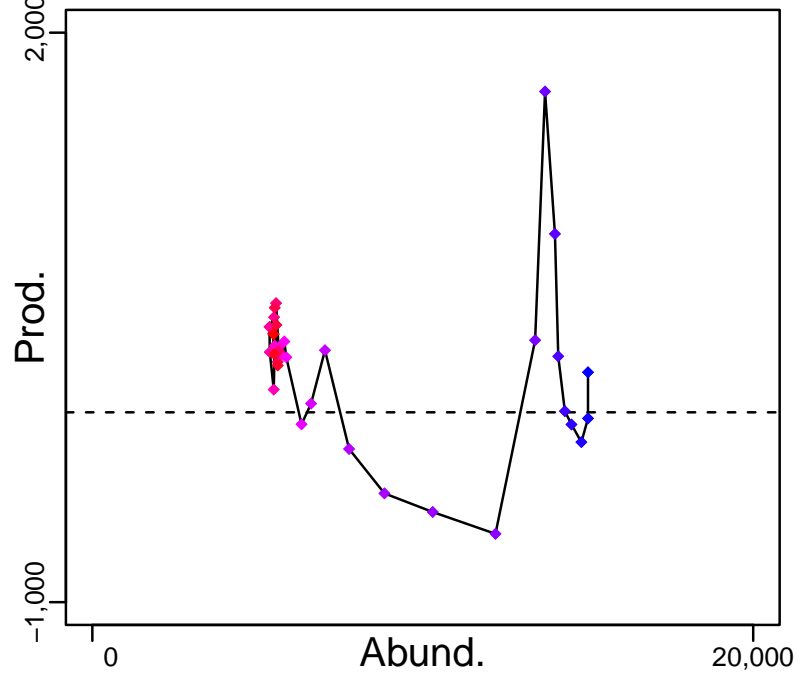
Kobe MGTpref (1975–2009–HIVELY)



Spawner Recruit (1975–2009–HIVELY)



Production (1975–2009–HIVELY)

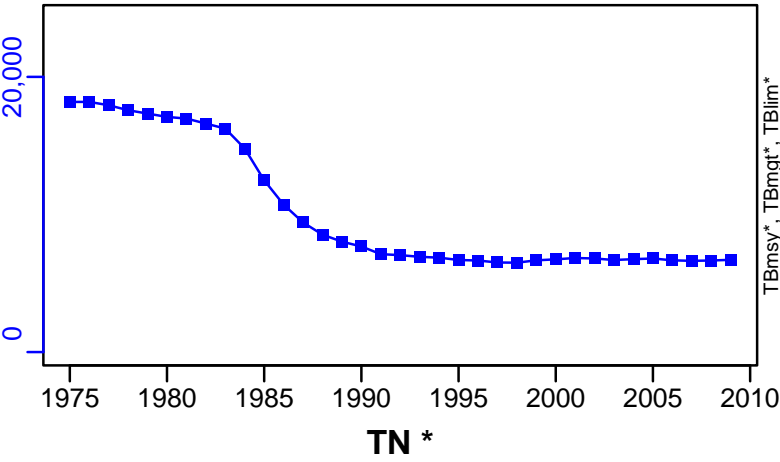


◆ Start Year ◆ End Year \* No Data

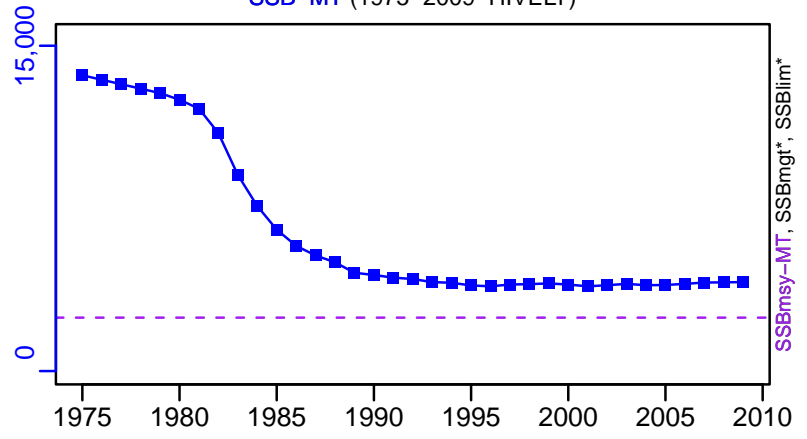


### Yellowedge grouper Gulf of Mexico [YEGROUPGM]

TB-MT (1975-2009-HIVELY)



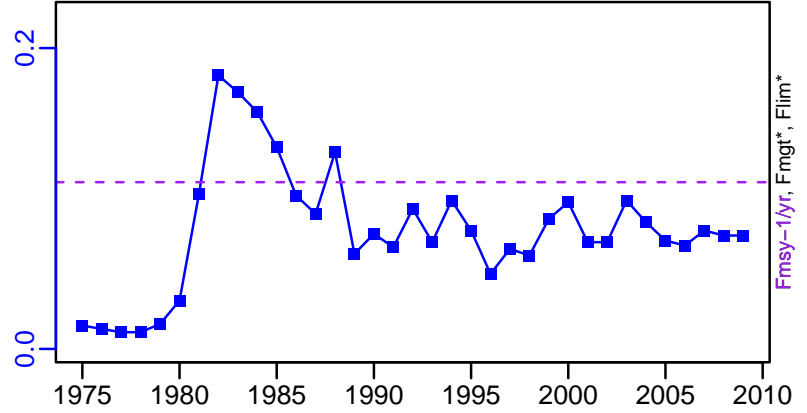
SSB-MT (1975-2009-HIVELY)



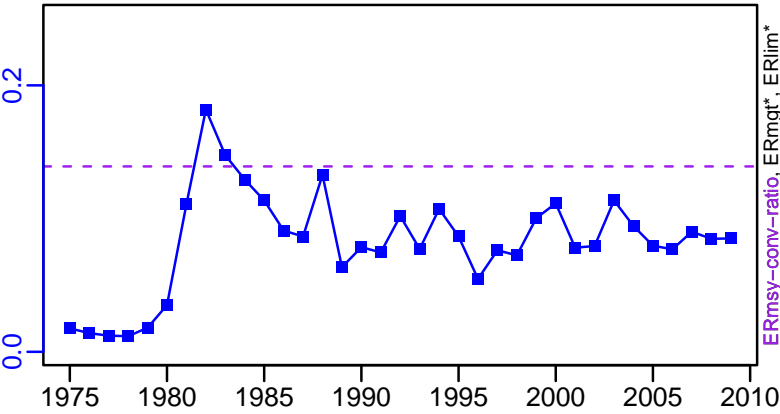
TN \*



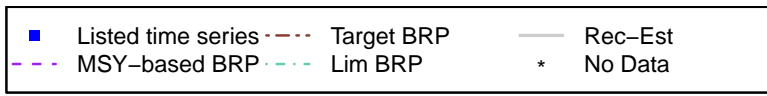
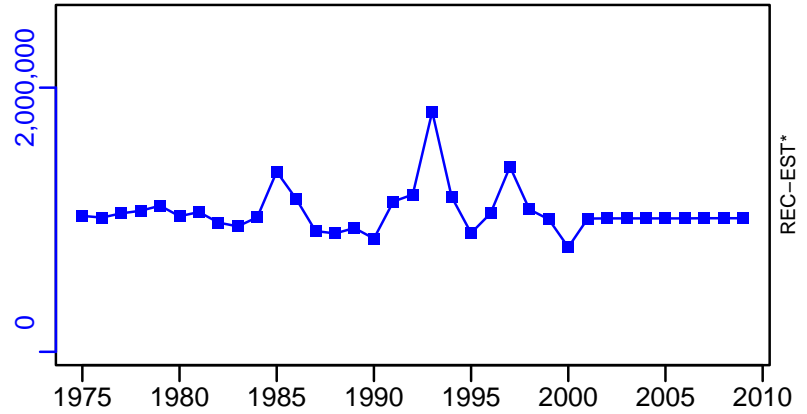
F-1/yr (1975-2009-HIVELY)



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



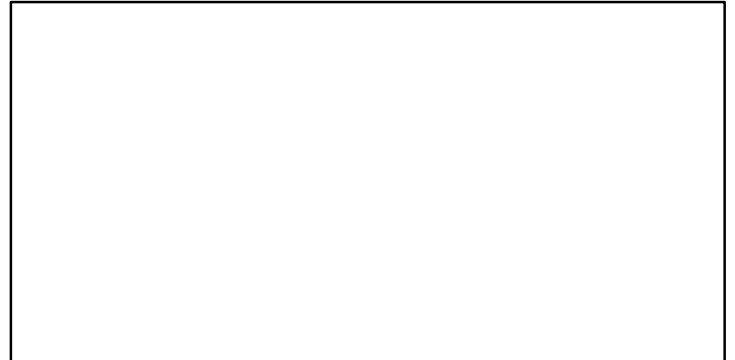
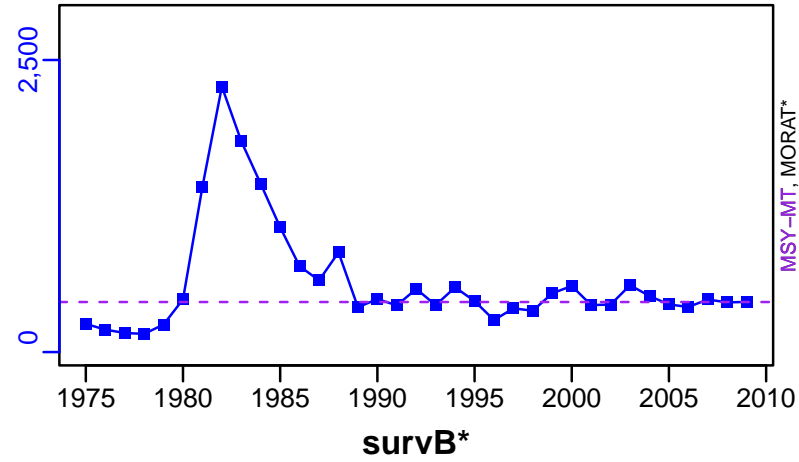
R-E00 (1975-2009-HIVELY)



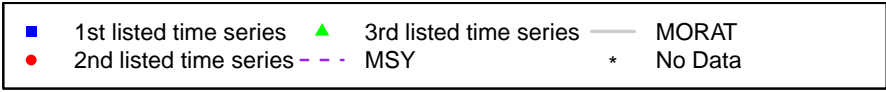
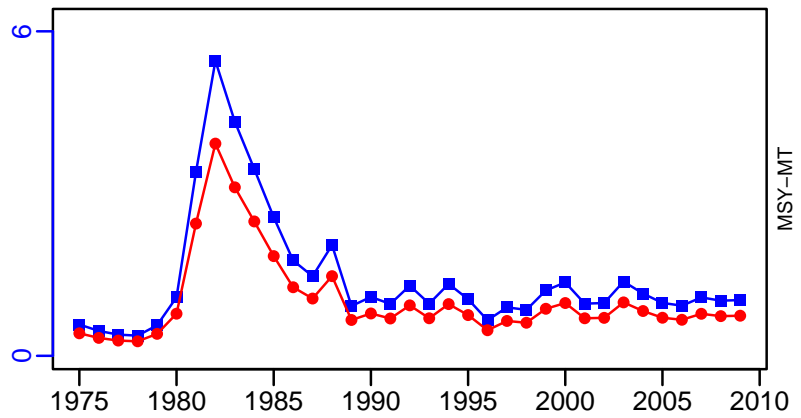
Yellowedge grouper Gulf of Mexico [YEGROUPGM]

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

TAC\*, Cpair\*, Cadv\*



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



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

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

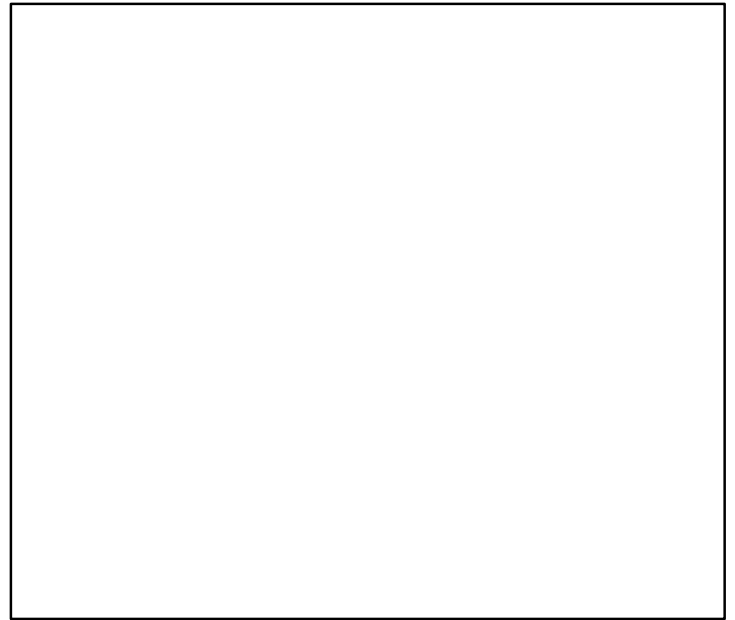
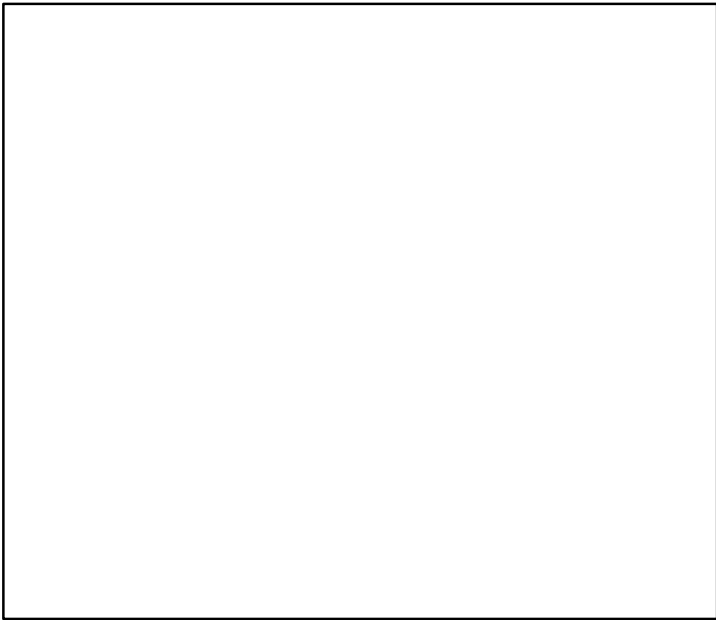
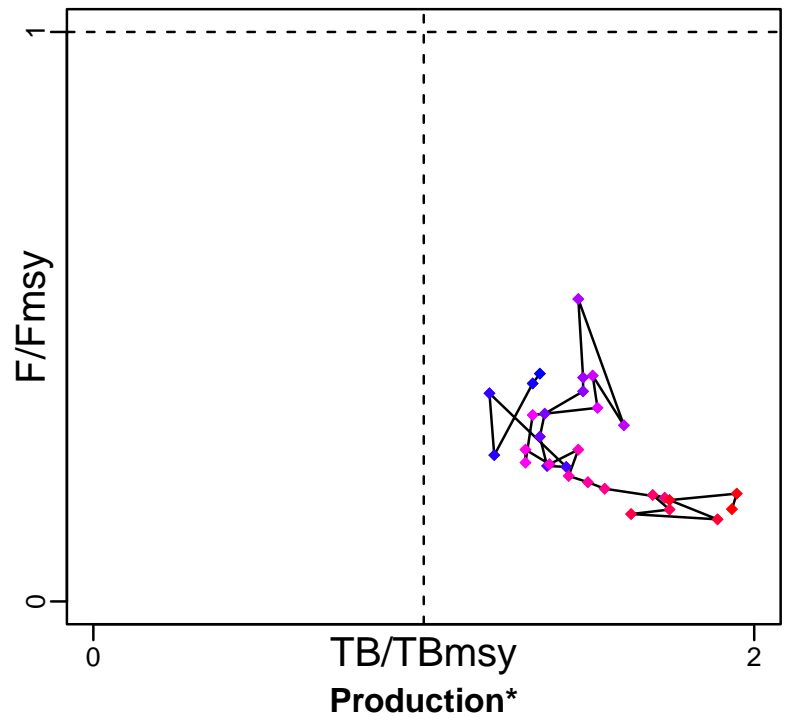
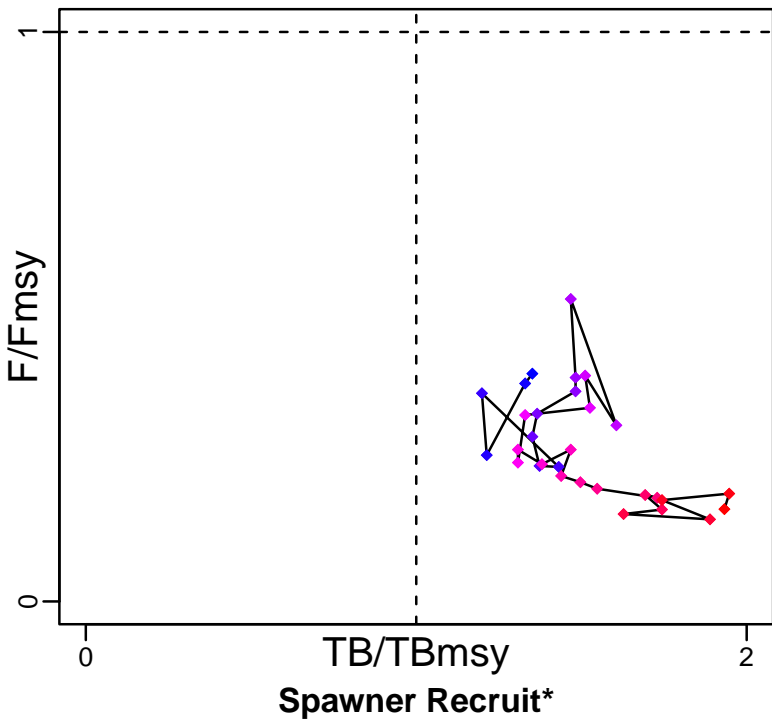
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-pr-1/yr	2011	0.29
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2011	1700
<b>M</b>	M-1/yr	2011	0.19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

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

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

Kobe MSYpref (1950–2011–HIVELY)

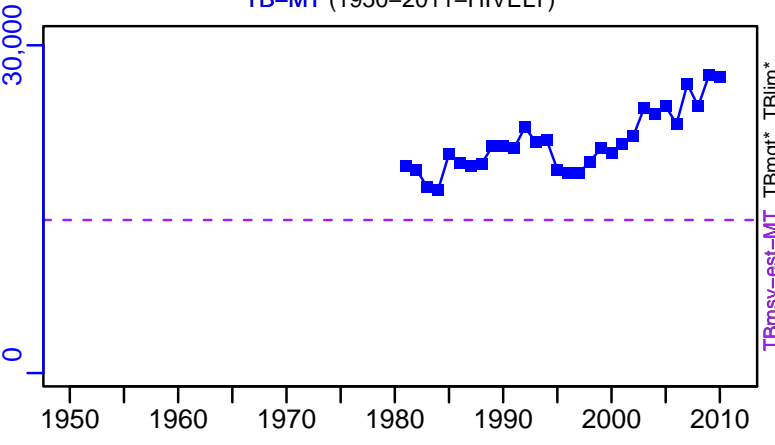
Kobe MGTpref (1950–2011–HIVELY)



◆ Start Year ◆ End Year \* No Data

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

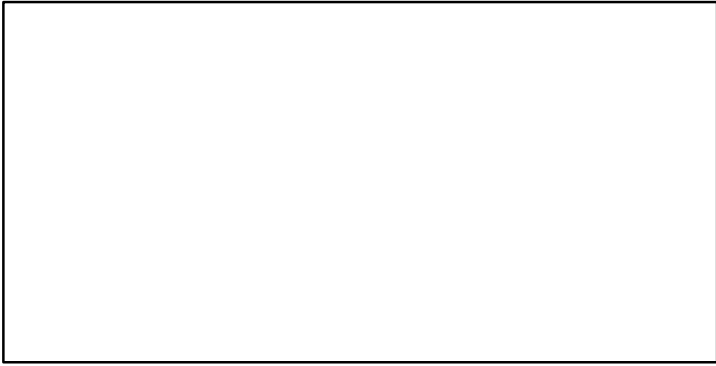
TB-MT (1950-2011-HIVELY)



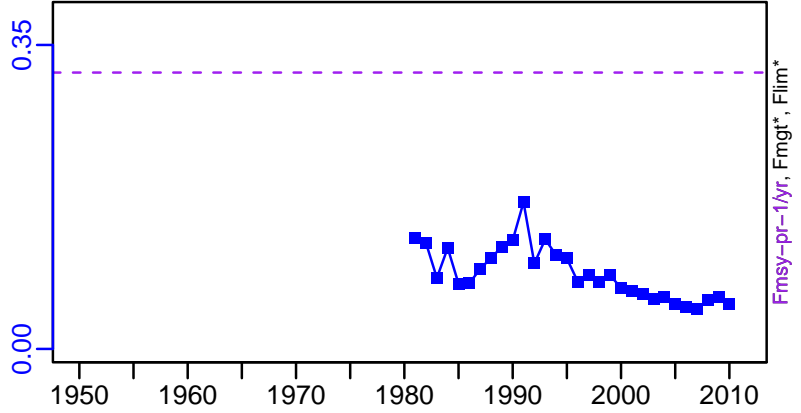
SSB\*



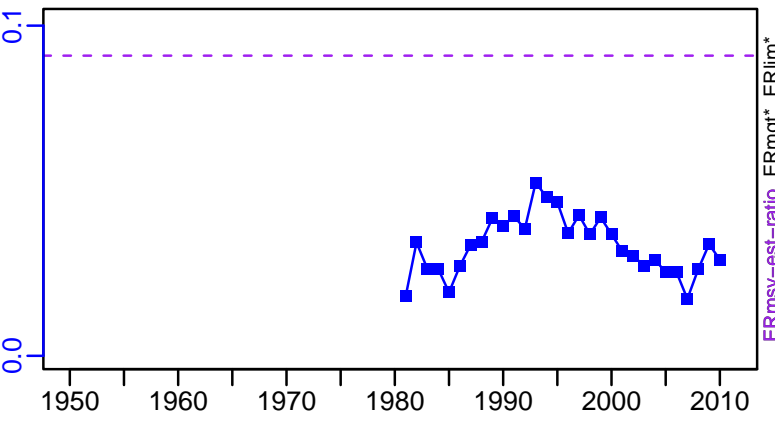
TN \*



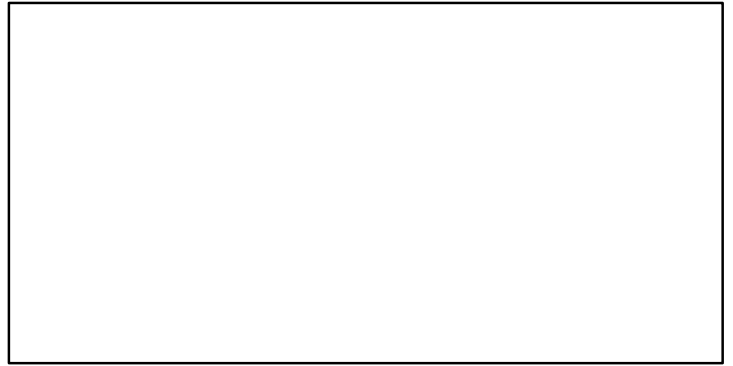
F-1/yr (1950-2011-HIVELY)



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



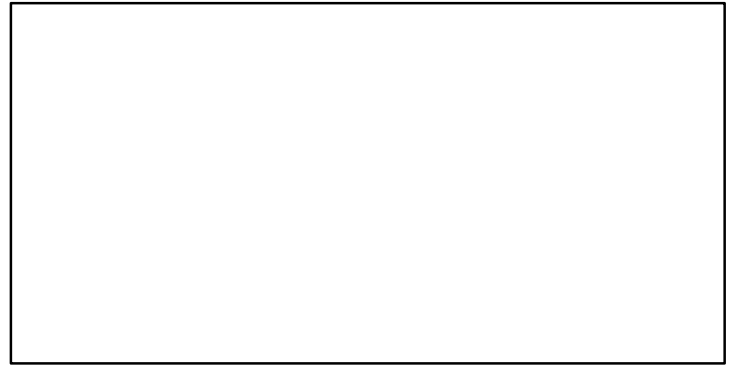
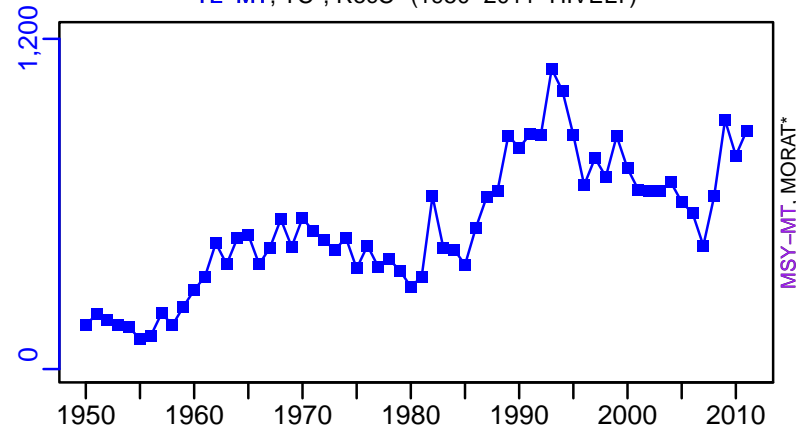
Recruits\*



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

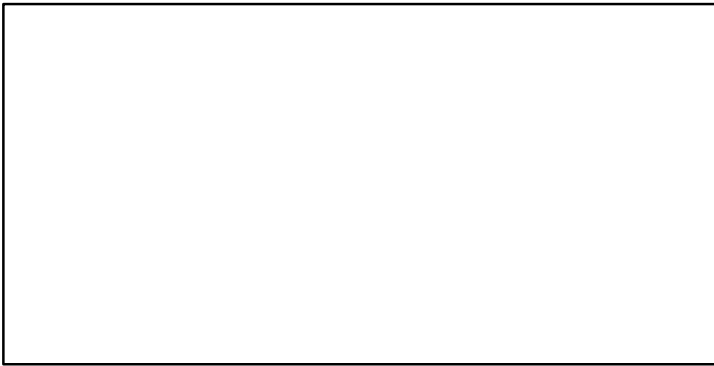
TL-MT, TC\*, RecC\* (1950-2011-HIVELY)

TAC\*, Cpair\*, Cadv\*



survB\*

CPUE\*



EFFORT\*

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

