

US Southeast and Gulf Stocks

v4.495 (Apr-21-2021)

Not present Present Preferred

| Stock | B/Bmsy | Time Series Types | | | |
|--|--------|-------------------|--------|--------|--|
| | | 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. DSKSHARGMATL [Dusky shark Gulf of Mexico and Atlantic] | TB SSB | ER F | TB SSB | ER F | |
| 12. FTOOTHSHARATL [Finetooth shark Atlantic] | TB SSB | ER F | TB SSB | ER F | |
| 13. GAGGM [Gag Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 14. GAGSATLC [Gag Southern Atlantic coast] | TB SSB | ER F | TB SSB | ER F | |
| 15. GLGROUPEGMSATLCGM [Goliath grouper Southern Atlantic coast and Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 16. GRAMBERGM [Greater amberjack Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 17. GRAMBERSATLC [Greater amberjack Southern Atlantic coast] | TB SSB | ER F | TB SSB | ER F | |
| 18. GRSNAPGM [Gray snapper Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 19. GTRIGGM [Gray triggerfish Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 20. KMACKGM [King mackerel Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 21. KMACKSATLC [King mackerel Southern Atlantic coast] | TB SSB | ER F | TB SSB | ER F | |
| 22. LISQUIDATLC [Longfin inshore squid Atlantic Coast] | TB SSB | ER F | TB SSB | ER F | |
| 23. LNSNAPGM [Lane snapper Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 24. MENATGM [Gulf menhaden Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 25. MUTSNAPSATLCGM [Mutton snapper Southern Atlantic coast and Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 26. PINKSHRIMPGM [Pink shrimp Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 27. RGROUPEGM [Red grouper Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 28. RGROUPEATL [Red grouper South Atlantic] | TB SSB | ER F | TB SSB | ER F | |
| 29. RPORGYSATLC [Red porgy Southern Atlantic coast] | TB SSB | ER F | TB SSB | ER F | |
| 30. RSNAPGM [Red snapper Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |
| 31. RSNAPSATLC [Red snapper Southern Atlantic coast] | TB SSB | ER F | TB SSB | ER F | |
| 32. SBARSHARATL [Sandbar shark Atlantic] | TB SSB | ER F | TB SSB | ER F | |
| 33. SKSNAPCARIB [Silk snapper Caribbean] | TB SSB | ER F | TB SSB | ER F | |
| 34. SNOSESHARATL [Atlantic sharpnose shark Atlantic] | TB SSB | ER F | TB SSB | ER F | |
| 35. SNOWGROUPEATLC [Snowy grouper Southern Atlantic coast] | TB SSB | ER F | TB SSB | ER F | |
| 36. SPANMACKGM [Spanish mackerel Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F | |

| | | | | |
|---|--------|------|--------|------|
| 37. SPANMACKSATLC [Spanish mackerel Southern Atlantic coast] | TB SSB | ER F | TB SSB | ER F |
| 38. TILEGM [Tilefish Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F |
| 39. TILESATLC [Tilefish Southern Atlantic coast] | TB SSB | ER F | TB SSB | ER F |
| 40. VSNAPGM [Vermilion snapper Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F |
| 41. VSNAPSATLC [Vermilion snapper Southern Atlantic coast] | TB SSB | ER F | TB SSB | ER F |
| 42. WSHRIMPGM [White shrimp Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F |
| 43. YEGROUPGM [Yellowedge grouper Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F |
| 44. YTSNAPSATLCGM [Yellowtail snapper Southern Atlantic coast and Gulf of Mexico] | TB SSB | ER F | TB SSB | ER F |

Bonnethead shark Atlantic [BHEADSHARATL]

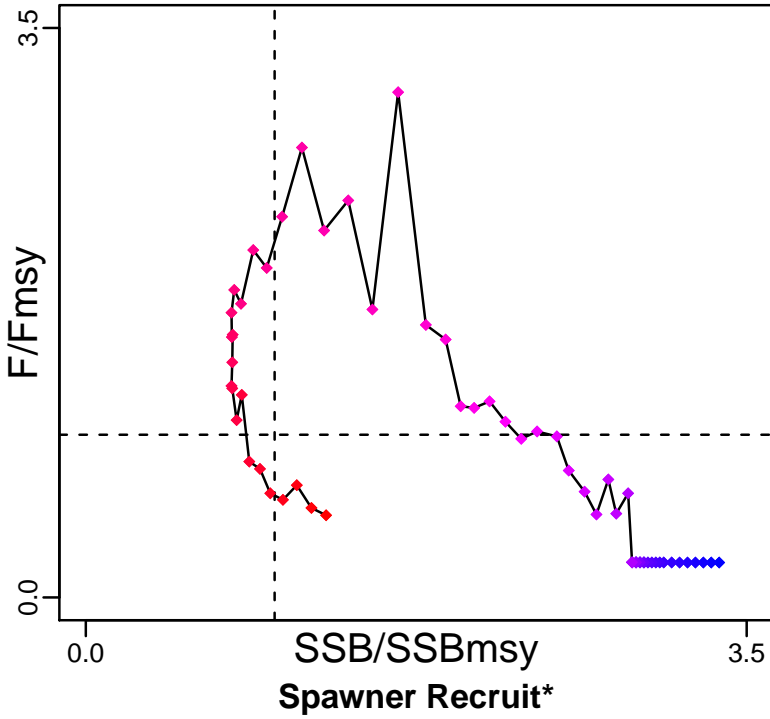
| Metadata | |
|-----------------------------|---|
| Scientific Name | Sphyrna tiburo |
| Current Assess ID | SEFSC-BHEADSHARATL-1950-2011-HIVELY |
| Area | Atlantic |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center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

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

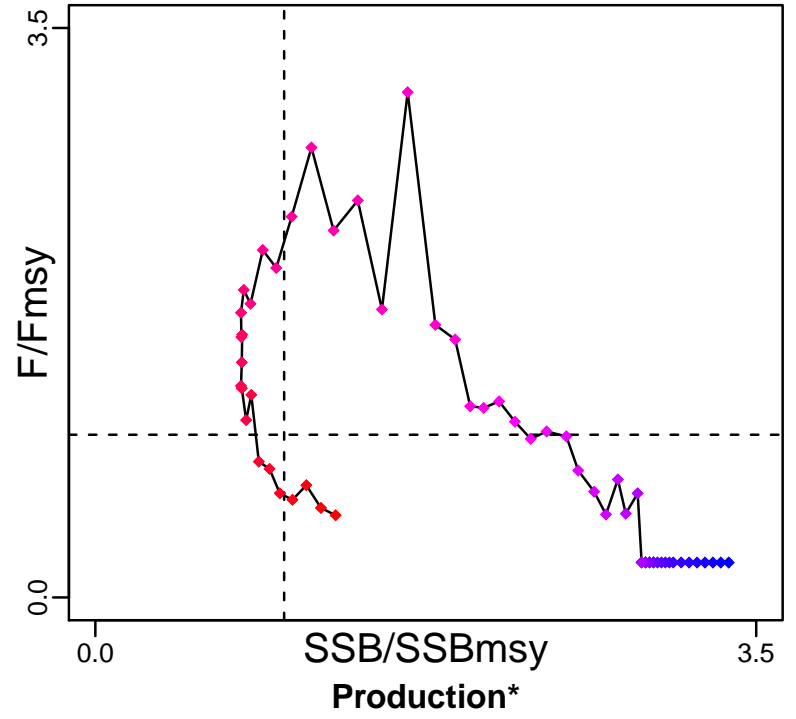
| Time Series | | | | | |
|-------------------|--------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSF-E00 | 2011 | 6,070,000 | - | - |
| TN | TN-E00 | 2011 | 4,890,000 | - | - |
| R | - | - | - | - | - |
| F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

Bonnethead shark Atlantic [BHEADSHARATL]

Kobe MSYpref (1950–2011–HIVELY)



Kobe MGTpref (1950–2011–HIVELY)



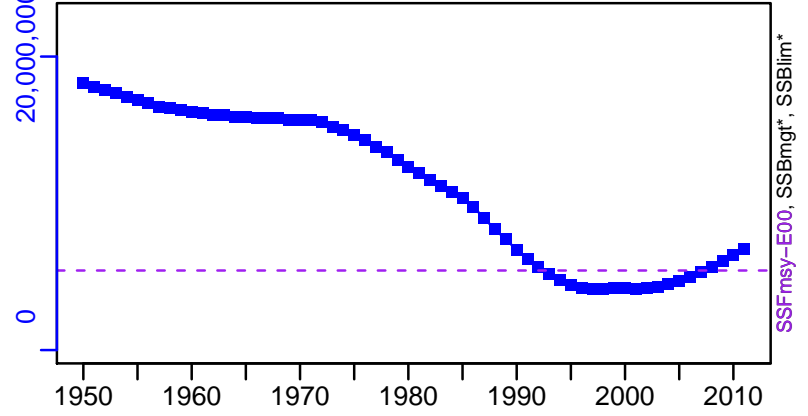
◆ Start Year ◆ End Year * No Data

Bonnethead shark Atlantic [BHEADSHARATL]

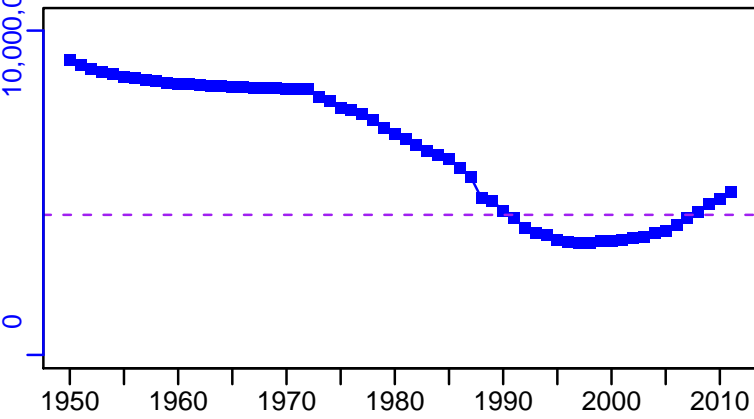
TB*



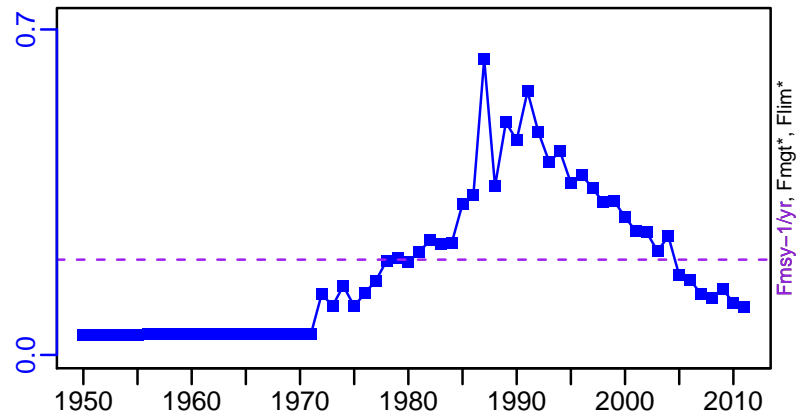
SSF-E00 (1950-2011-HIVELY)



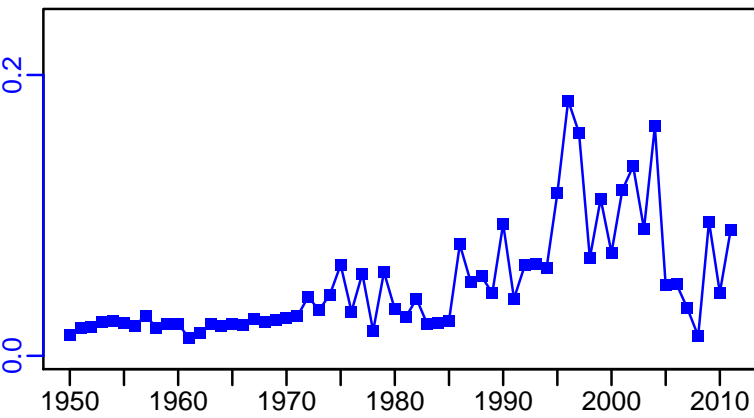
TN-E00 (1950-2011-HIVELY)



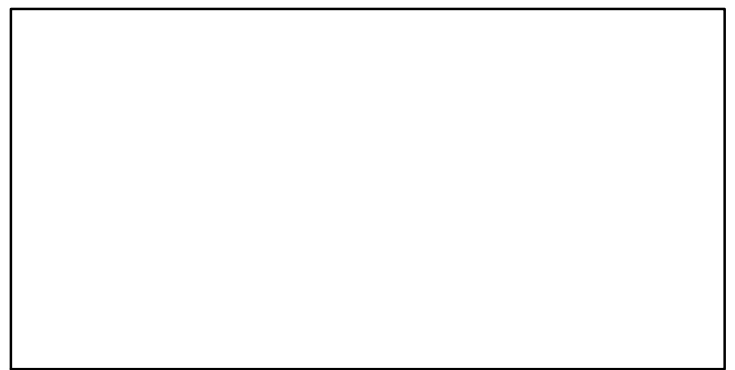
F-1/yr (1950-2011-HIVELY)



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

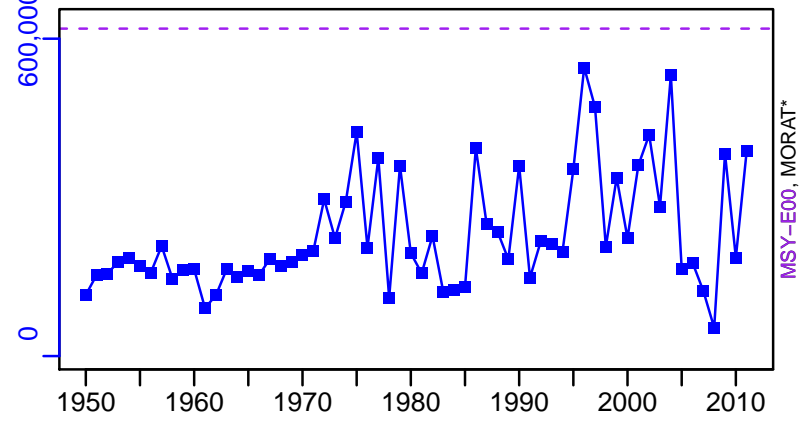


Recruits*



Bonnethead shark Atlantic [BHEADSHARATL]

TC-E00, TL*, RecC* (1950–2011–HIVELY)



TAC*, Cpair*, Cadv*



survB*



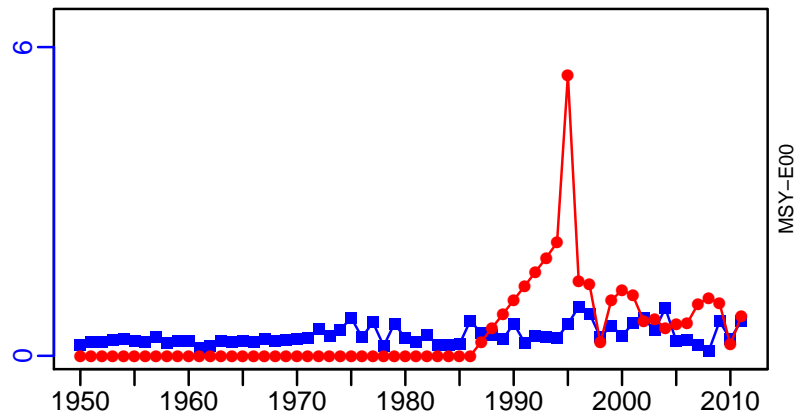
CPUE*



EFFORT*



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



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

Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPELGMSATL]

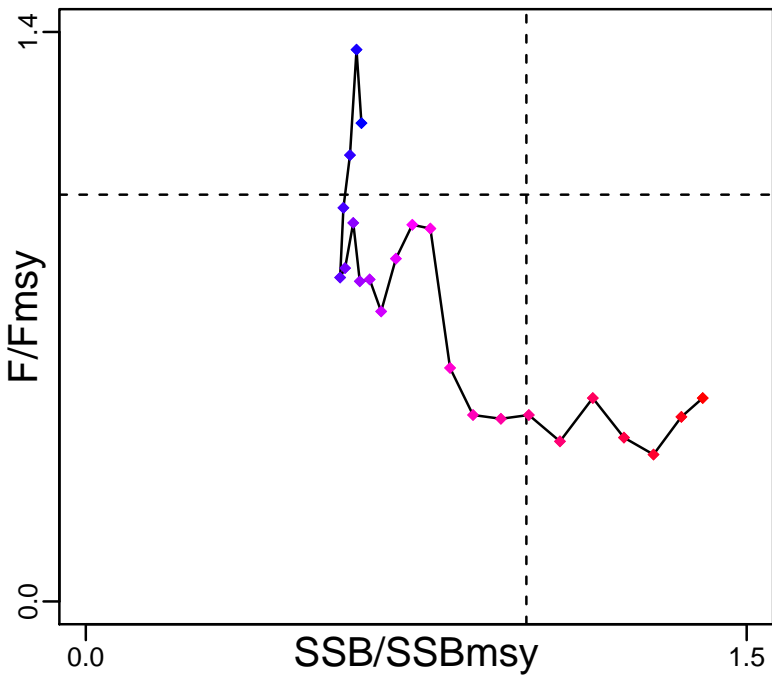
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mycteroperca bonaci |
| Current Assess ID | SEFSC-BLACKGROUPELGMSATL-1986-2008-THORSON |
| Area | Gulf of Mexico and South Atlantic |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor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

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

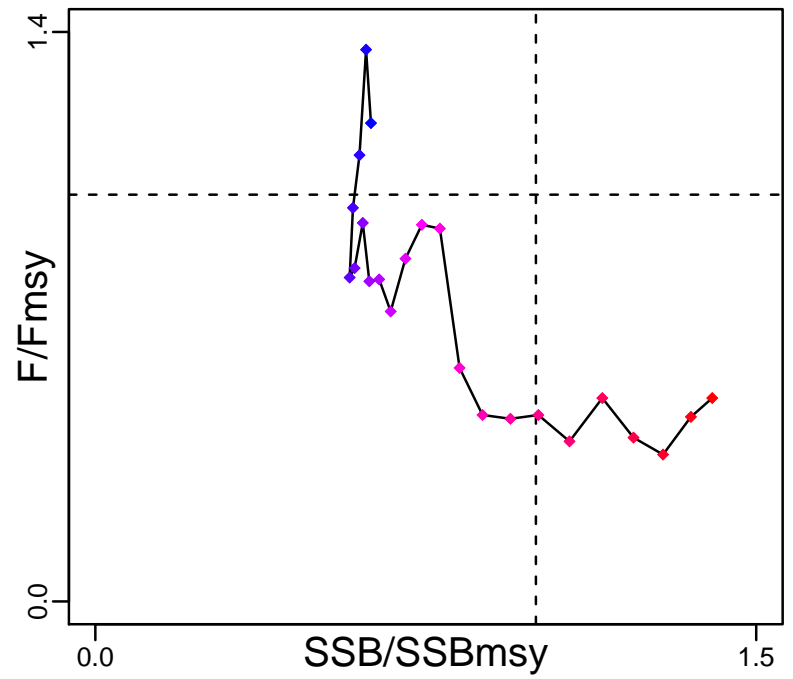
| Time Series | | | | | |
|-------------------|---------------------|-----------|------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2008 | 3760 | Both | 7+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2008 | 169,000 | - | 1 |
| F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

Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEMGMSATL]

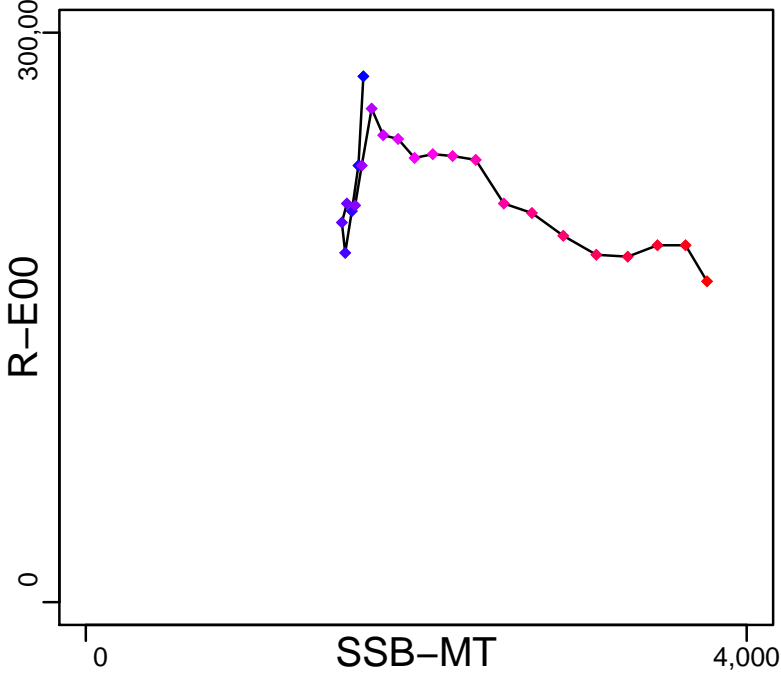
Kobe MSYpref (1986–2008–THORSON)



Kobe MGTpref (1986–2008–THORSON)



Spawner Recruit (1986–2008–THORSON)



Production*



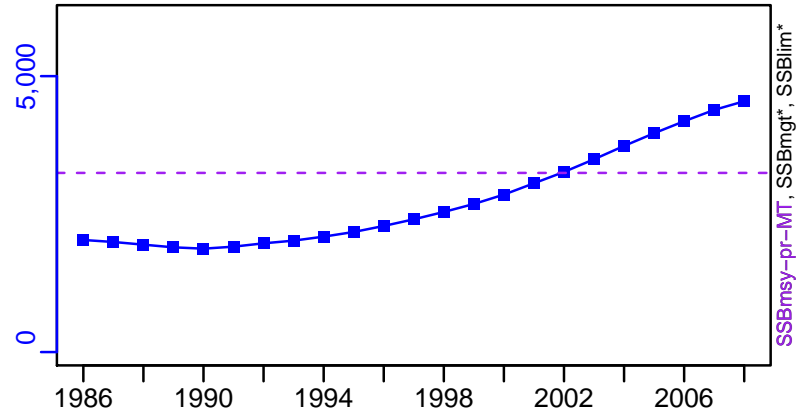
◆ Start Year ◆ End Year * No Data

Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPERGMSATL]

TB*



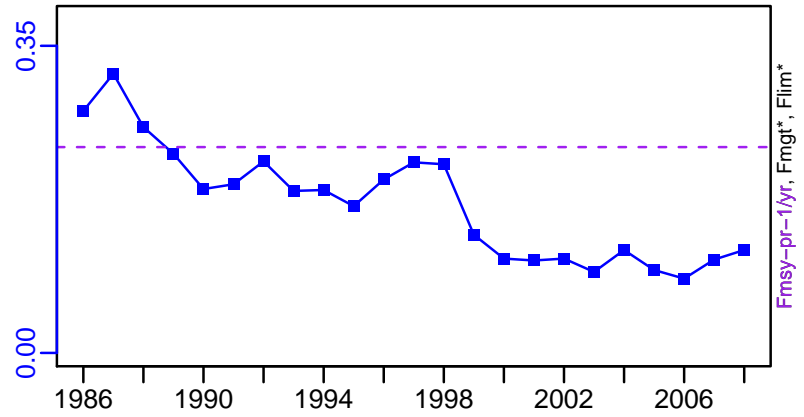
SSB-MT (1986-2008-THORSON)



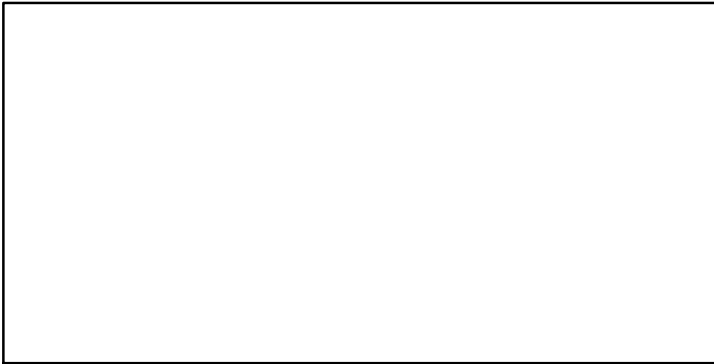
TN *



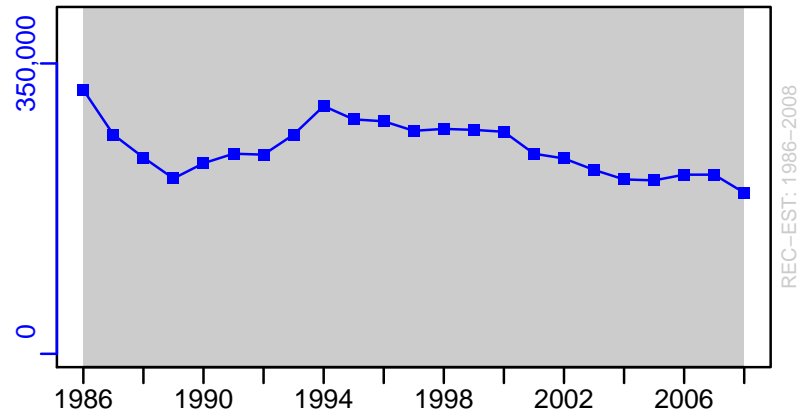
F-1/yr (1986-2008-THORSON)



ER*



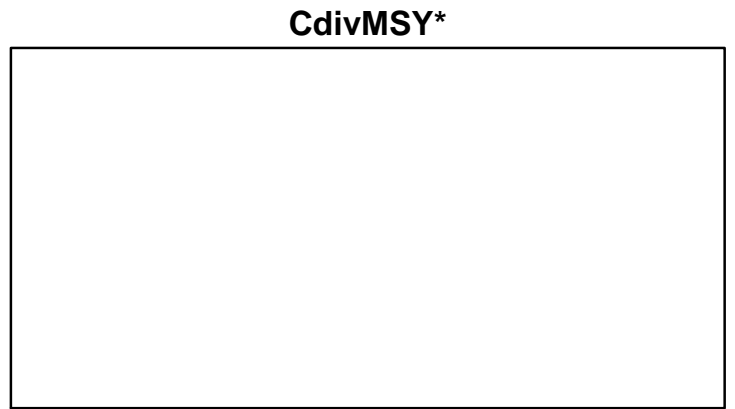
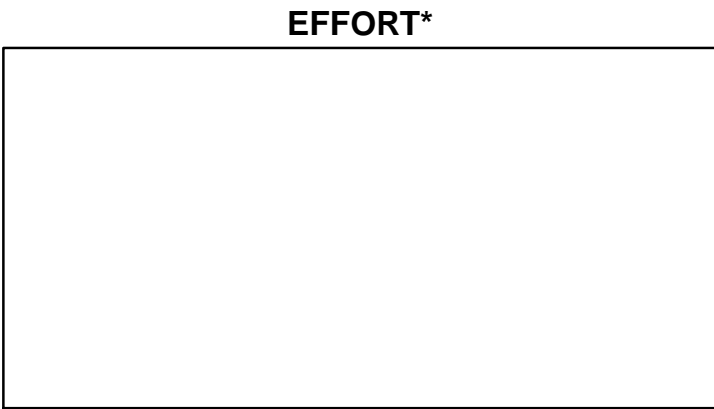
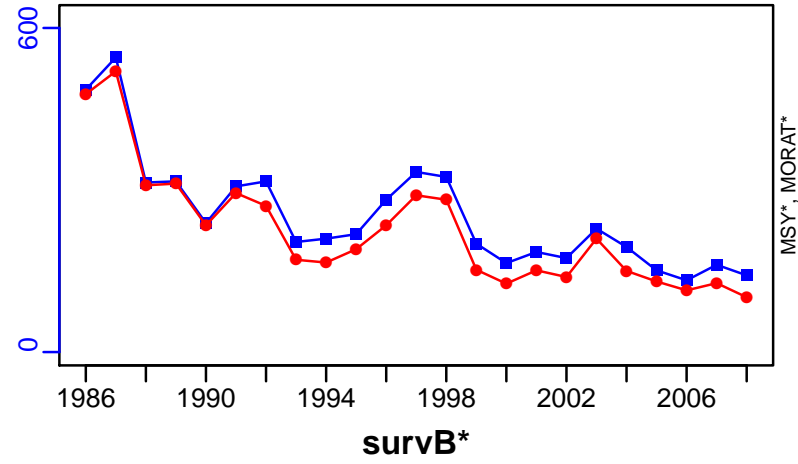
R-E00 (1986-2008-THORSON)



Black grouper Gulf of Mexico and South Atlantic [BLACKGROUPEMGMSATL]

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

TAC*, Cpair*, Cadv*



Blueline tilefish Southern Atlantic coast [BLTILESATLC]

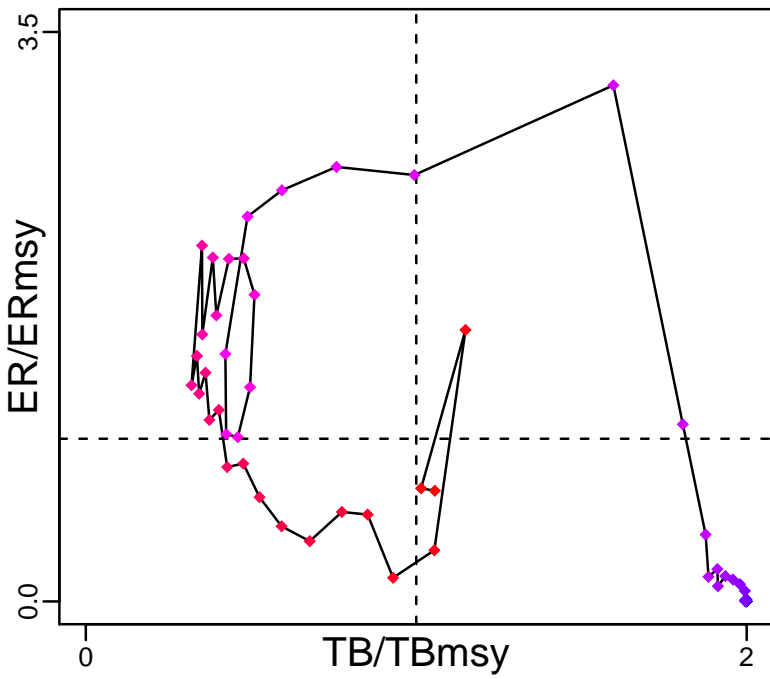
| Metadata | |
|-----------------------------|---|
| Scientific Name | Caulolatilus microps |
| Current Assess ID | SEFSC-BLTILESATLC-1958-2015-SISIMP2021 |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries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

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

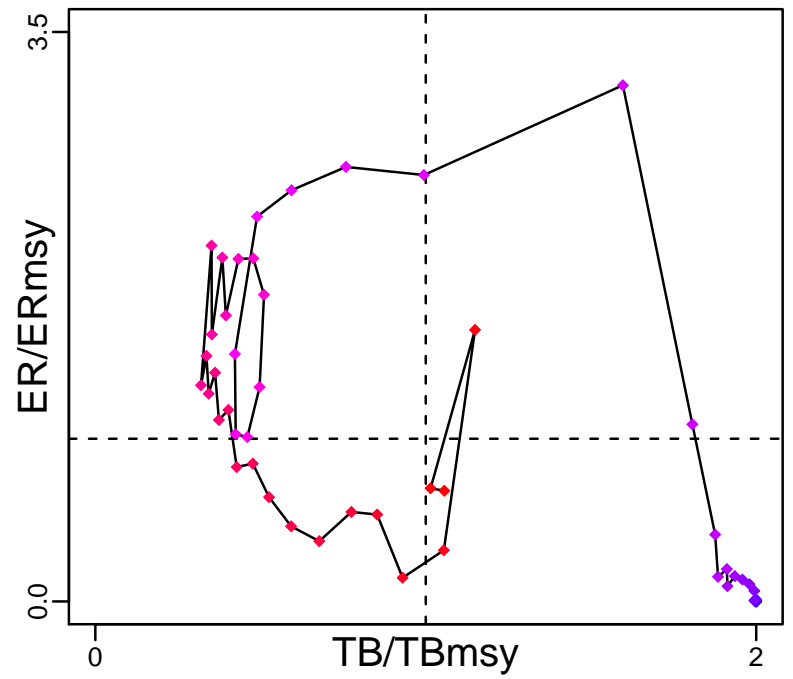
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 703 | - | - |
| SSB | SSB-MT | 2011 | 202 | Females | 3+ |
| TN | - | - | - | - | - |
| R | - | - | - | -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

Blueline tilefish Southern Atlantic coast [BLTILESATLC]

Kobe MSYpref (1958–2015–SISIMP2021)



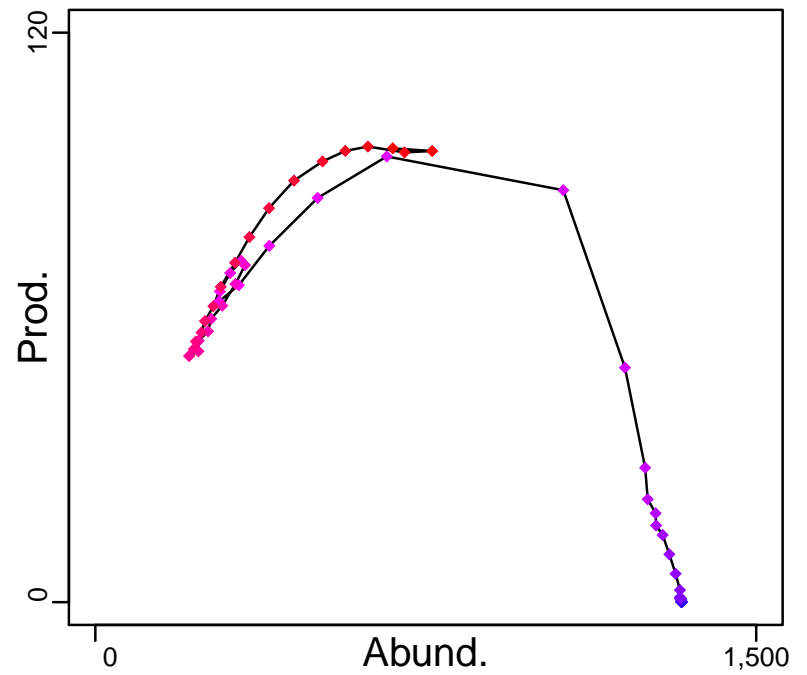
Kobe MGTpref (1958–2015–SISIMP2021)



Spawner Recruit*



Production (1958–2015–SISIMP2021)

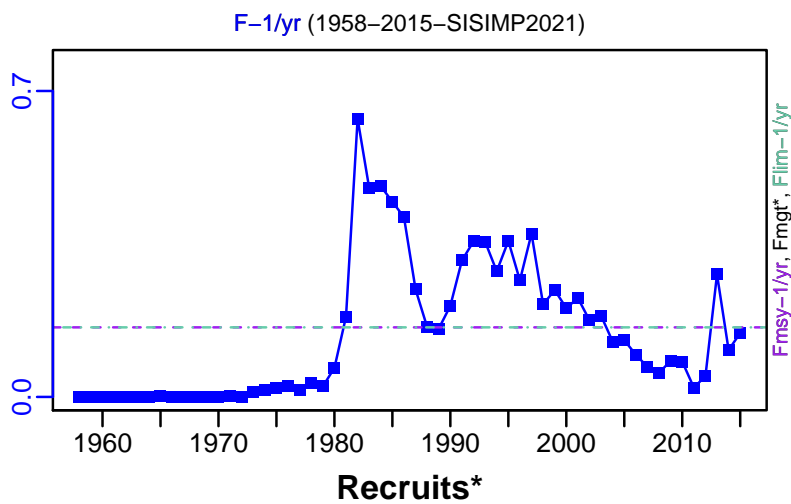
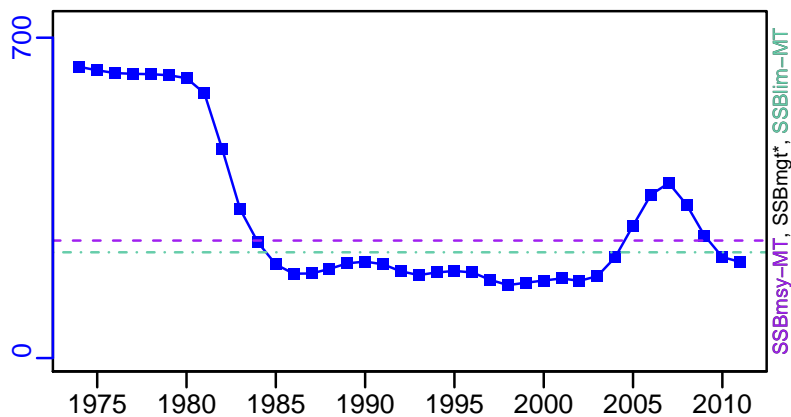
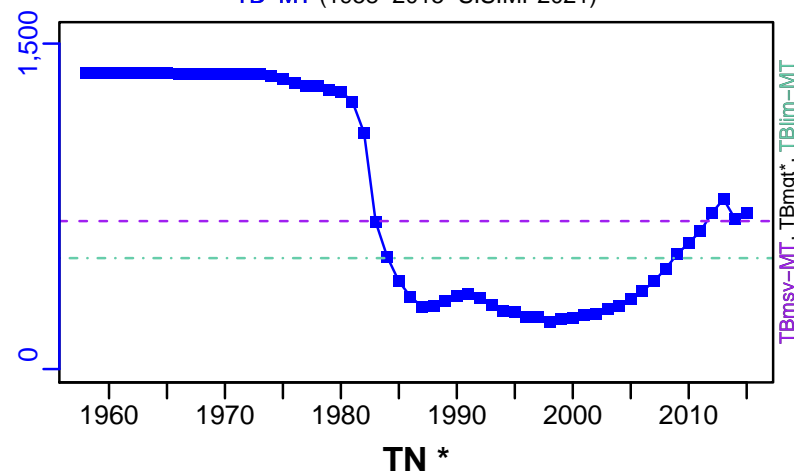


◆ Start Year ◆ End Year * No Data

Blueline tilefish Southern Atlantic coast [BLTILESATLC]

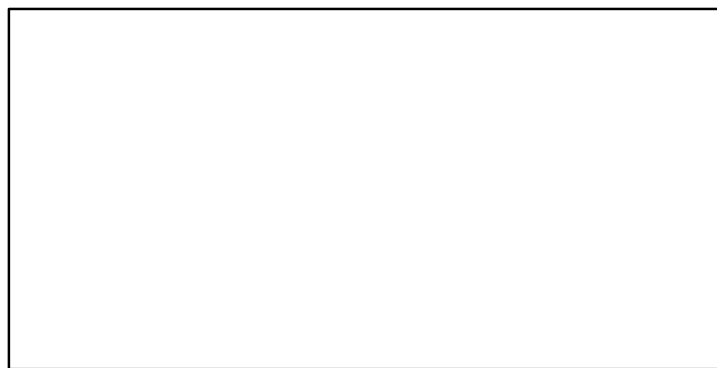
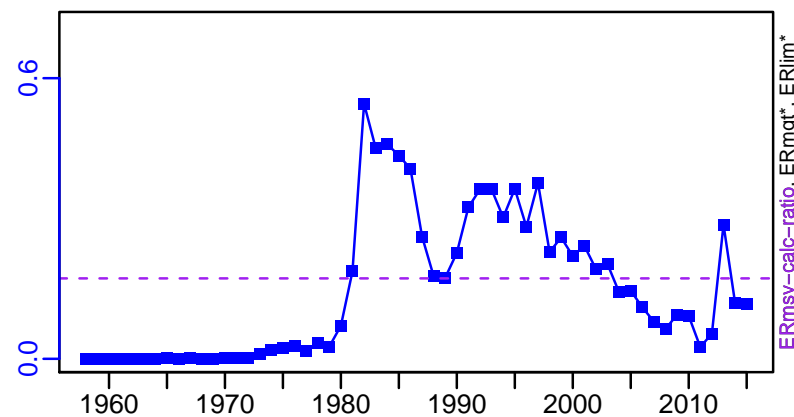
TB-MT (1958–2015–SISIMP2021)

SSB-MT (1974–2011–SISIMP2016)



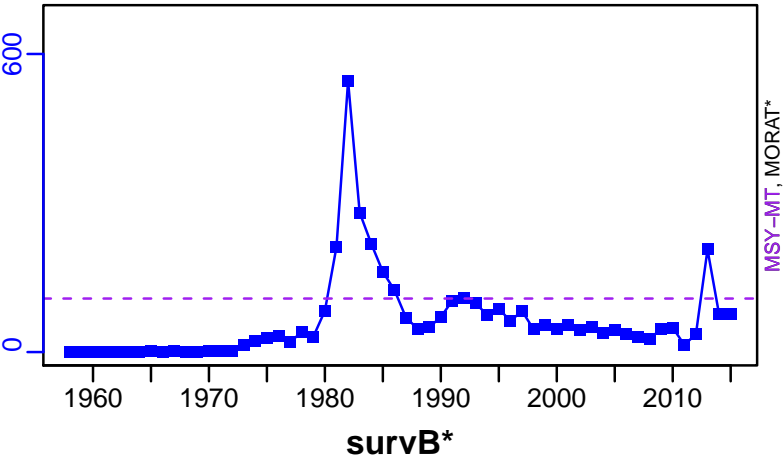
ER-calc-ratio (1958–2015–SISIMP2021)

Recruits*



Blueline tilefish Southern Atlantic coast [BLTILESATLC]

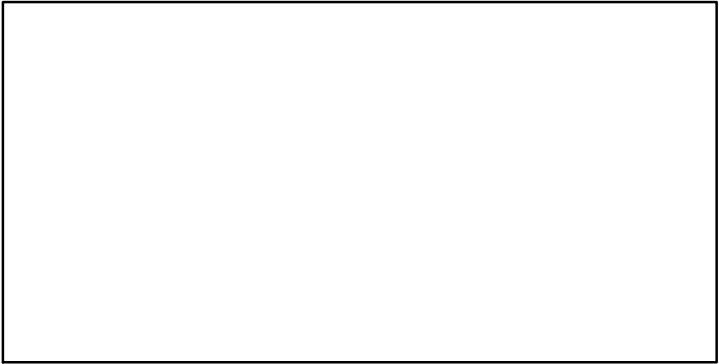
TC-MT, TL*, RecC* (1958-2015-SISIMP2021)



TAC*, Cpair*, Cadv*



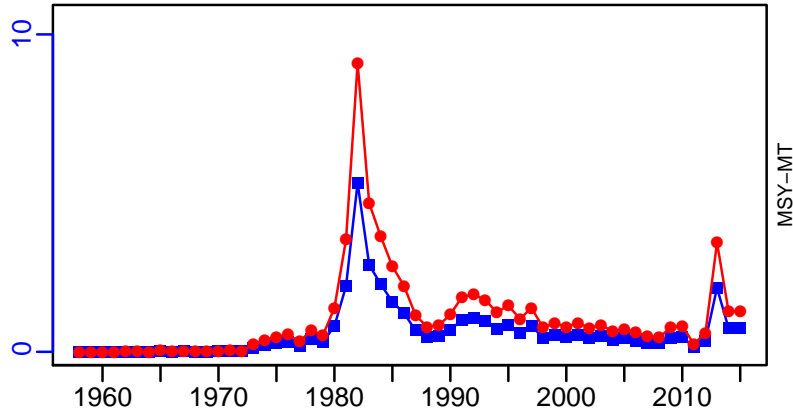
CPUE*



EFFORT*



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



Blacknose shark Atlantic [BNOSESHARATL]

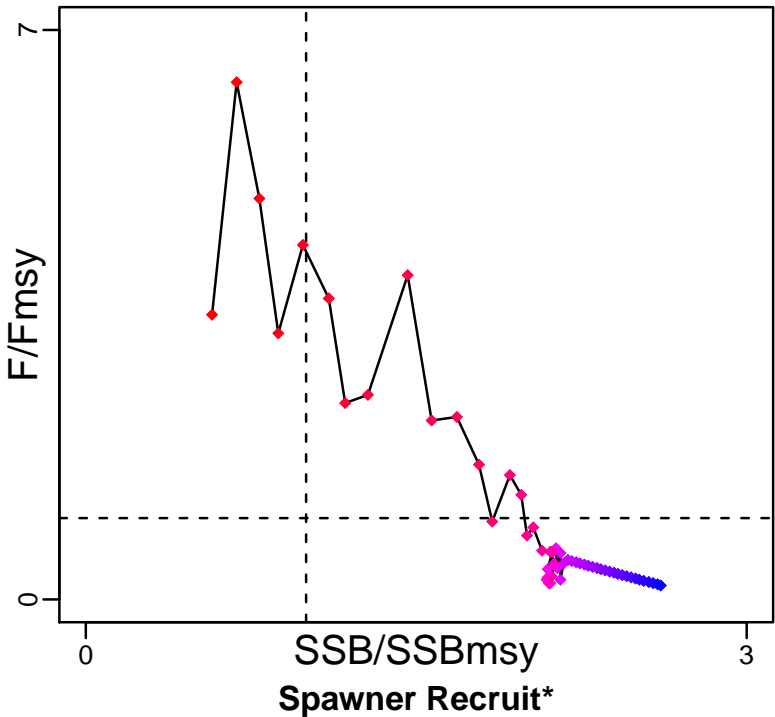
| Metadata | |
|-----------------------------|---|
| Scientific Name | Carcharhinus acronotus |
| Current Assess ID | SEFSC-BNOSESHARATL-1950-2009-SISIMP2016 |
| Area | Atlantic |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

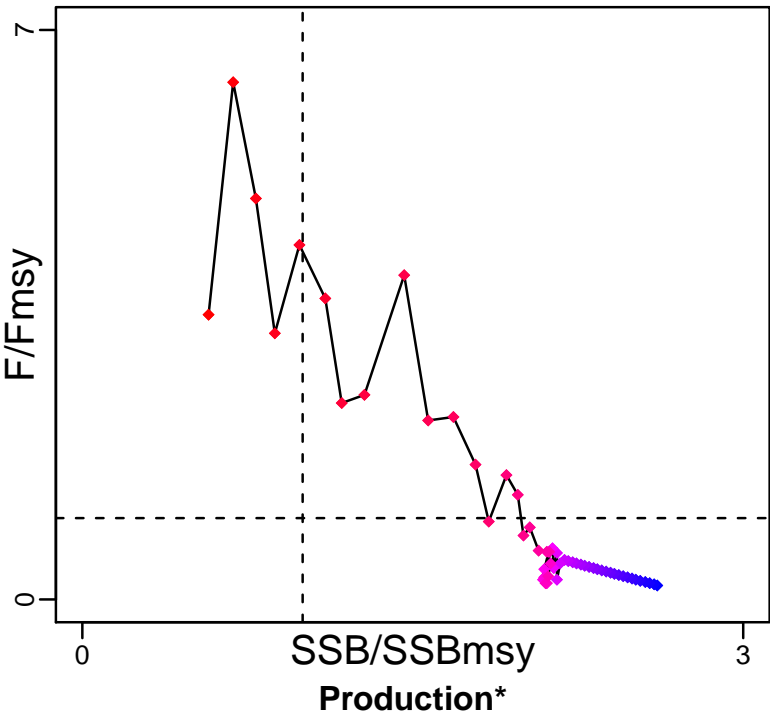
| Time Series | | | | | |
|-------------------|--------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-E00pups | 2009 | 58,000 | - | - |
| TN | TN-E00 | 2009 | 152,000 | - | - |
| R | - | - | - | - | - |
| F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

Blacknose shark Atlantic [BNOSESHARATL]

Kobe MSYpref (1950–2005–FAUCONNET)



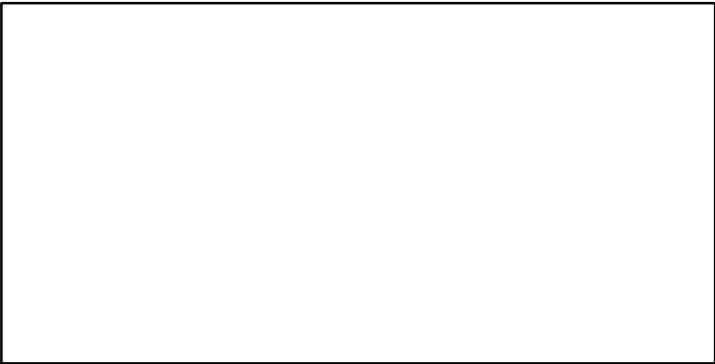
Kobe MGTpref (1950–2005–FAUCONNET)



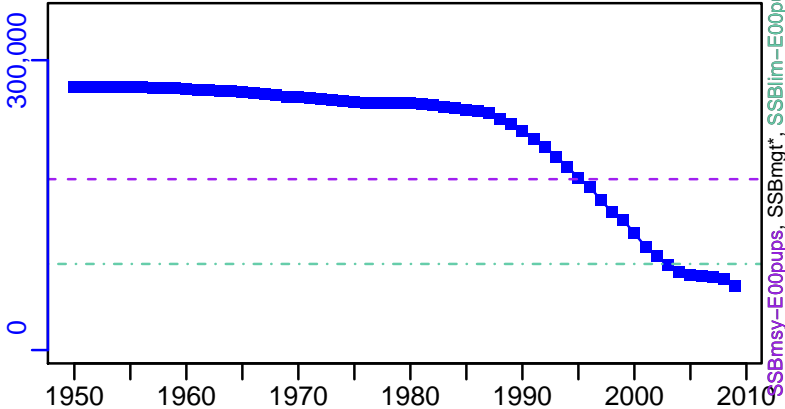
◆ Start Year ◆ End Year * No Data

Blacknose shark Atlantic [BNOSESHARATL]

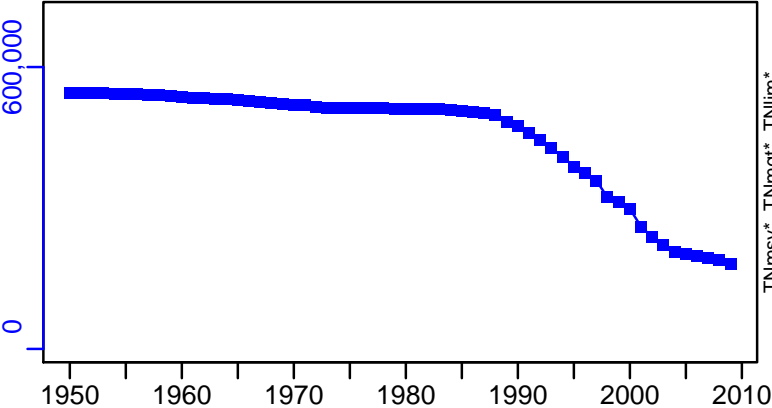
TB*



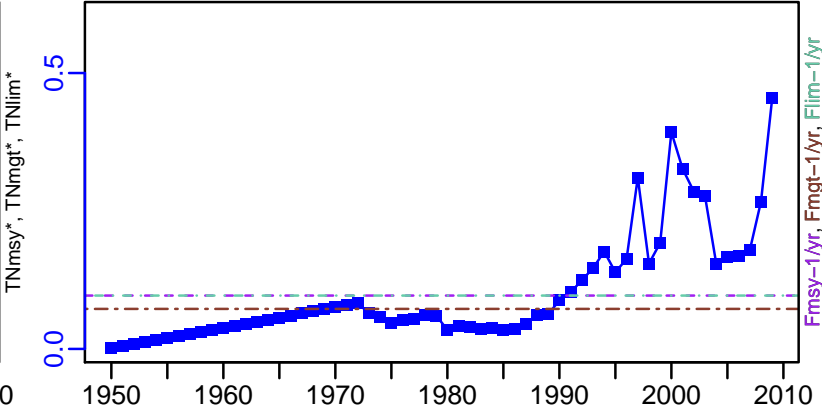
SSB-E00pups (1950-2009-SISIMP2016)



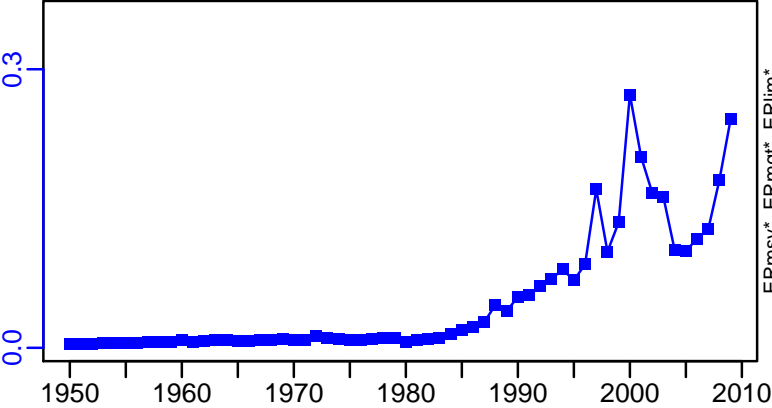
TN-E00 (1950-2009-SISIMP2016)



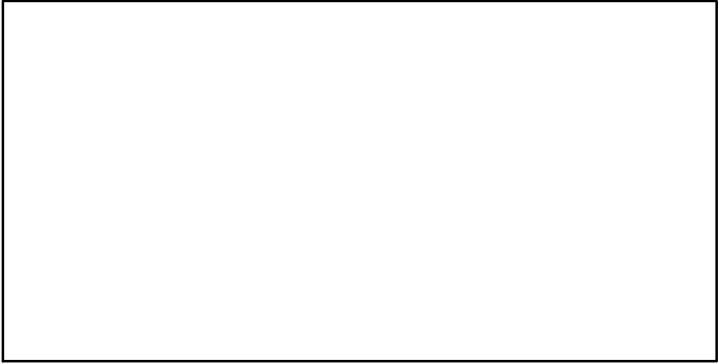
F-1/yr (1950-2009-SISIMP2016)



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

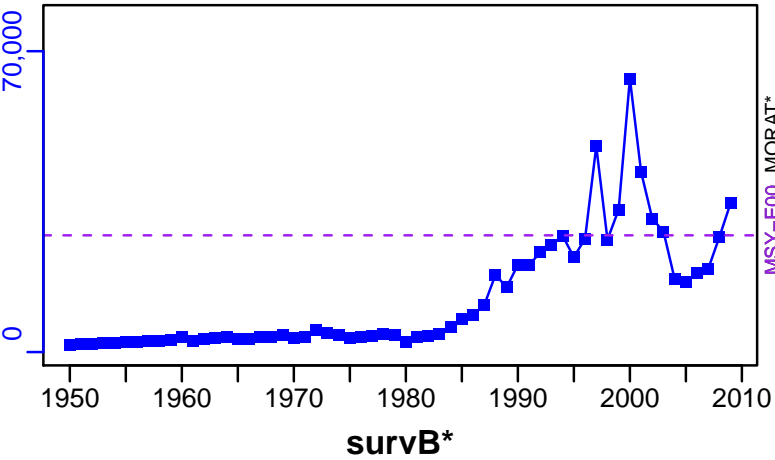


Recruits*



Blacknose shark Atlantic [BNOSESHARATL]

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



TAC*, Cpair*, Cadv*



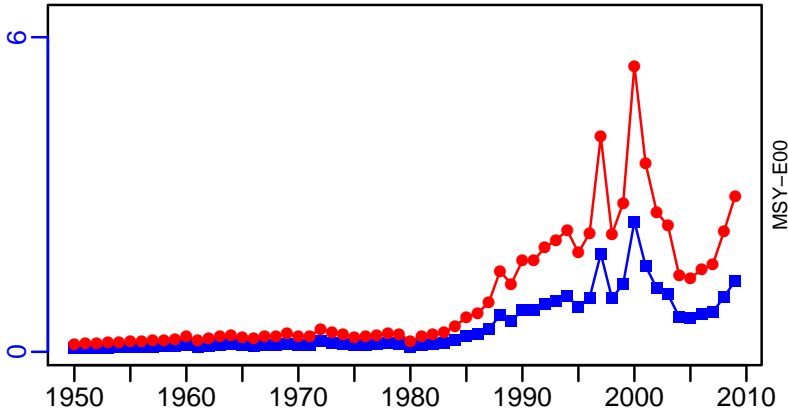
CPUE*



EFFORT*



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



Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

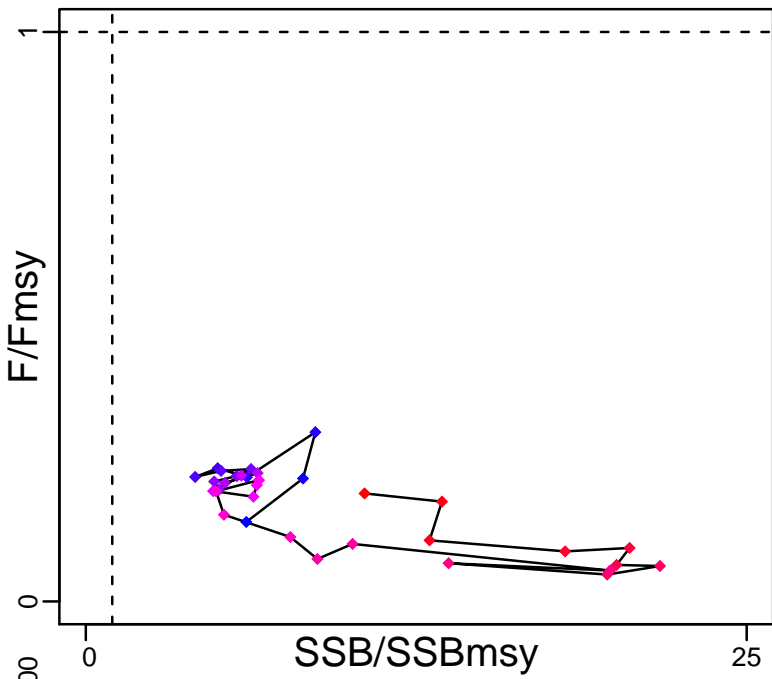
| Metadata | |
|-----------------------------|---|
| Scientific Name | Farfantepenaeus aztecus |
| Current Assess ID | SEFSC-BRNSHRIMPGM-1984-2017-SISIMP2021 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries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

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

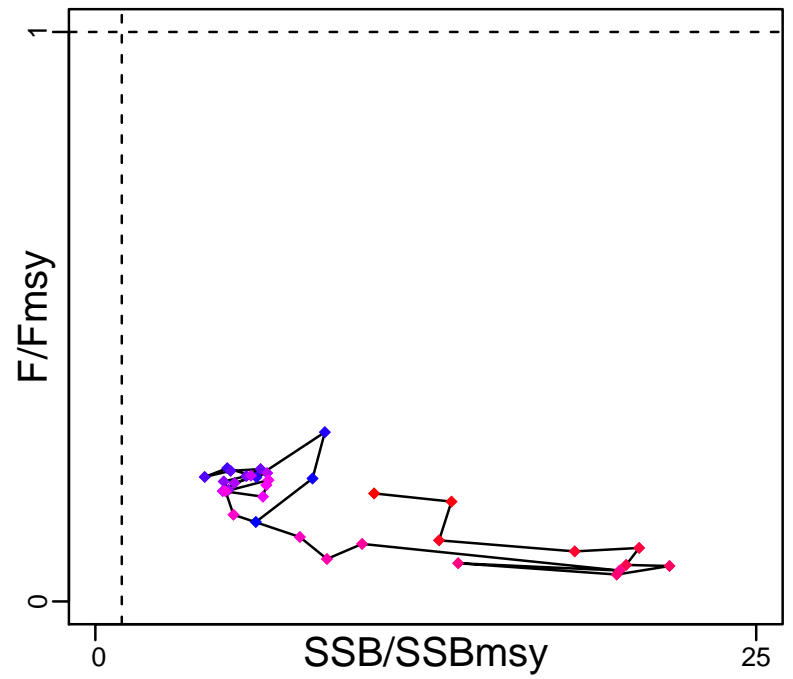
| Time Series | | | | | |
|-------------------|------------------|-----------|----------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2017 | 12,174 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2017 | 27,770,500,000 | - | - |
|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

Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

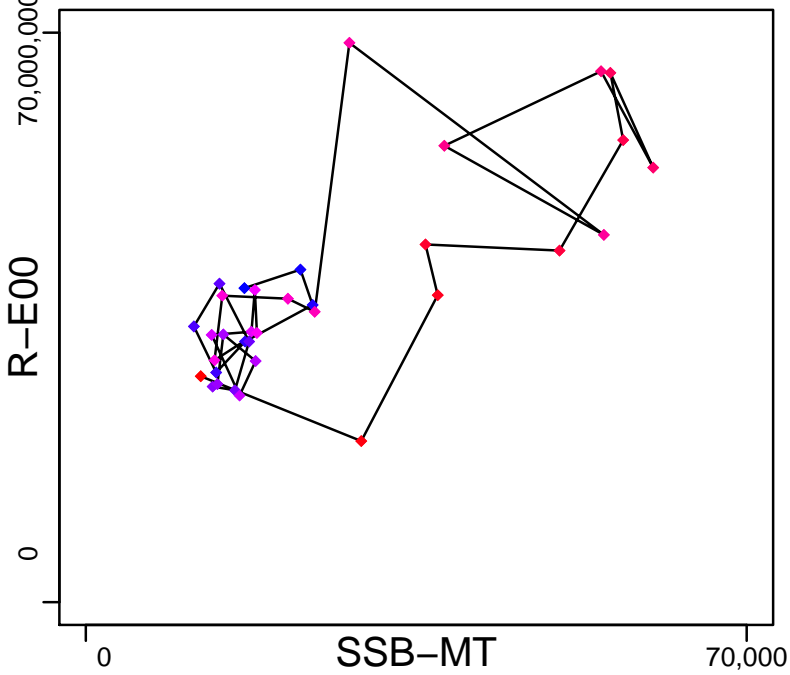
Kobe MSYpref (1984–2017–SISIMP2021)



Kobe MGTpref (1984–2017–SISIMP2021)



Spawner Recruit (1984–2017–SISIMP2021)



Production*



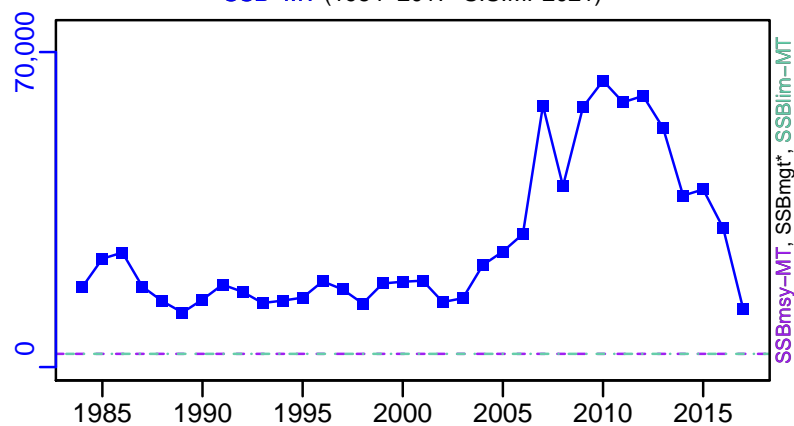
◆ Start Year ◆ End Year * No Data

Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

TB*



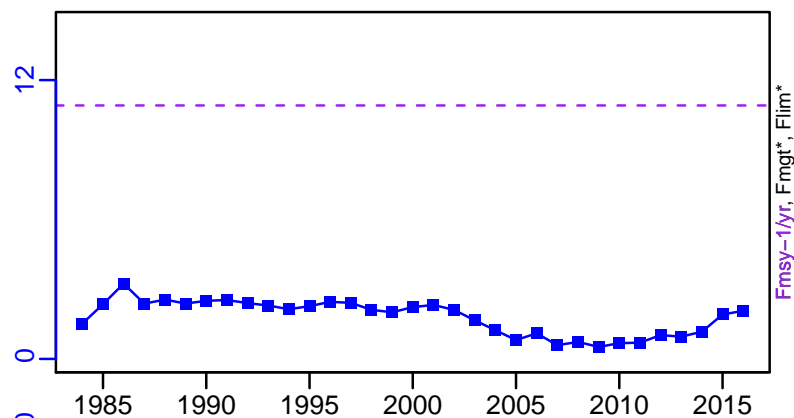
SSB-MT (1984–2017–SISIMP2021)



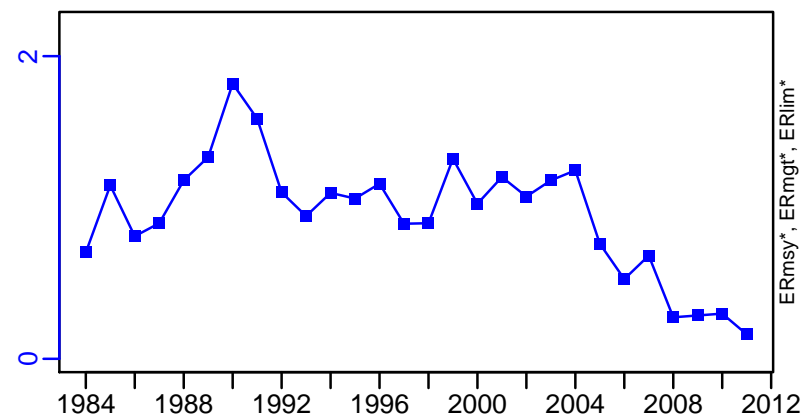
TN *



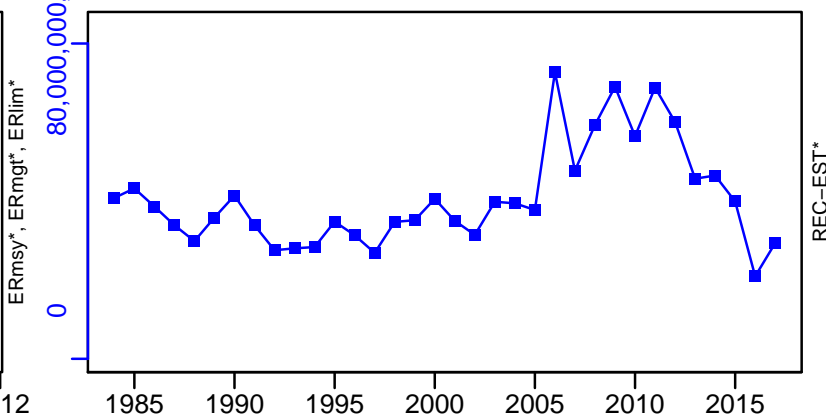
F-1/yr (1984–2017–SISIMP2021)



ER-ratio (1984–2011–HIVELY)

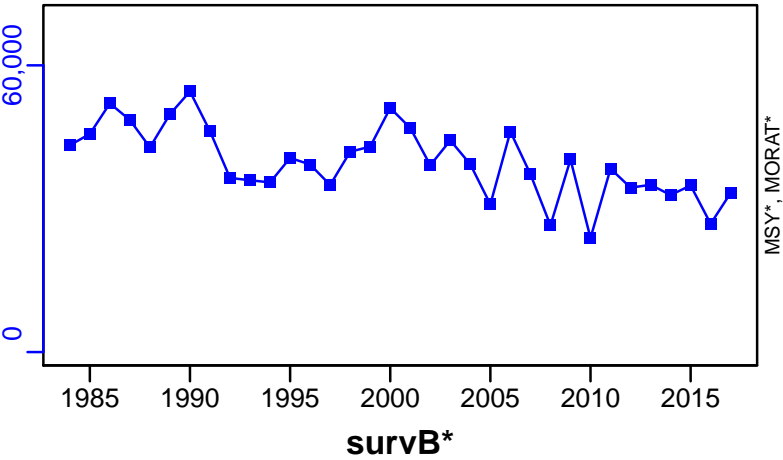


R-E00 (1984–2017–SISIMP2021)



Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Black sea bass South Atlantic [BSBASSSATL]

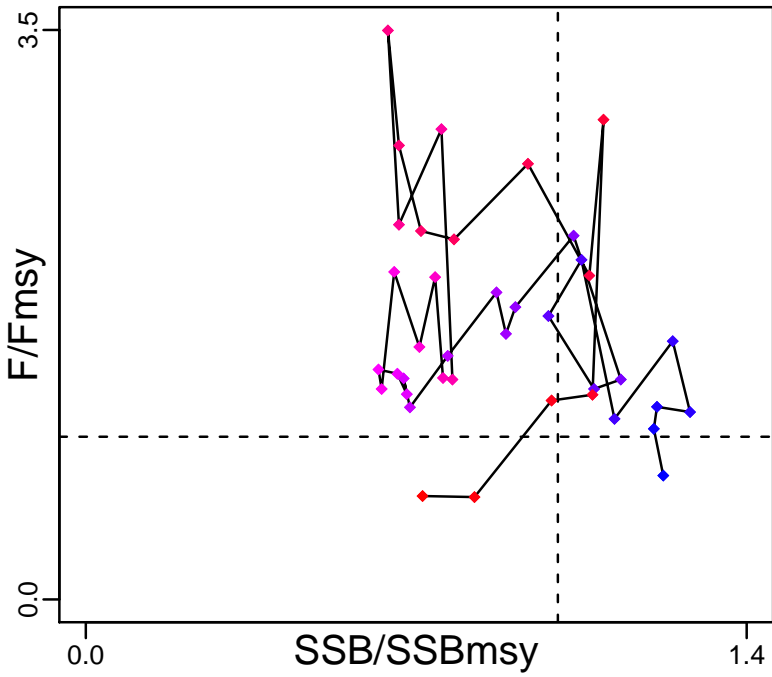
| Metadata | |
|-----------------------------|---|
| Scientific Name | Centropristis striata |
| Current Assess ID | SEFSC-BSBASSSATL-1977-2016-SISIMP2021 |
| Area | South Atlantic |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries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

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

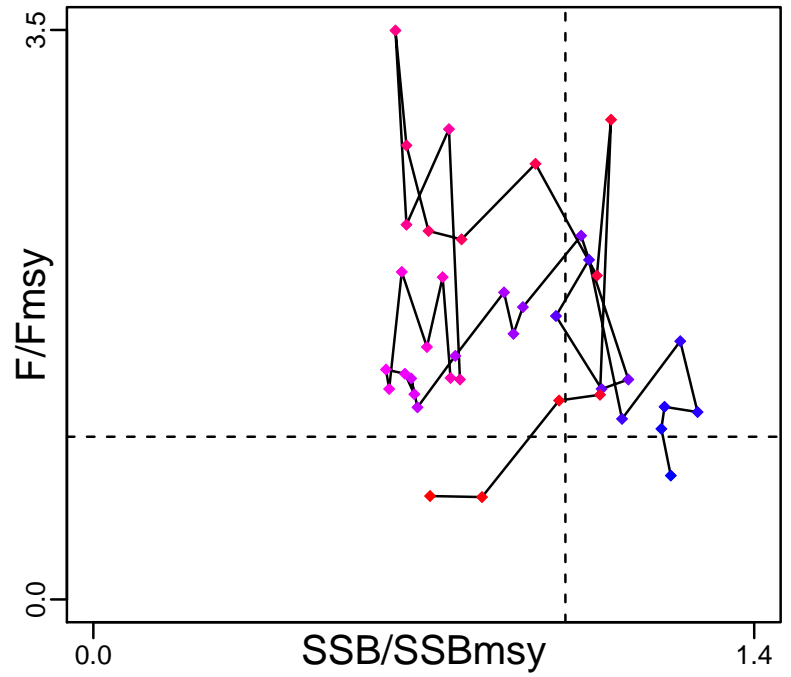
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2010 | 3800 | - | - |
| SSB | SSB-E00eggs | 2016 | 2.14×10^{12} | - | - |
| TN | - | - | - | - | - |
| R |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

Black sea bass South Atlantic [BSBASSSATL]

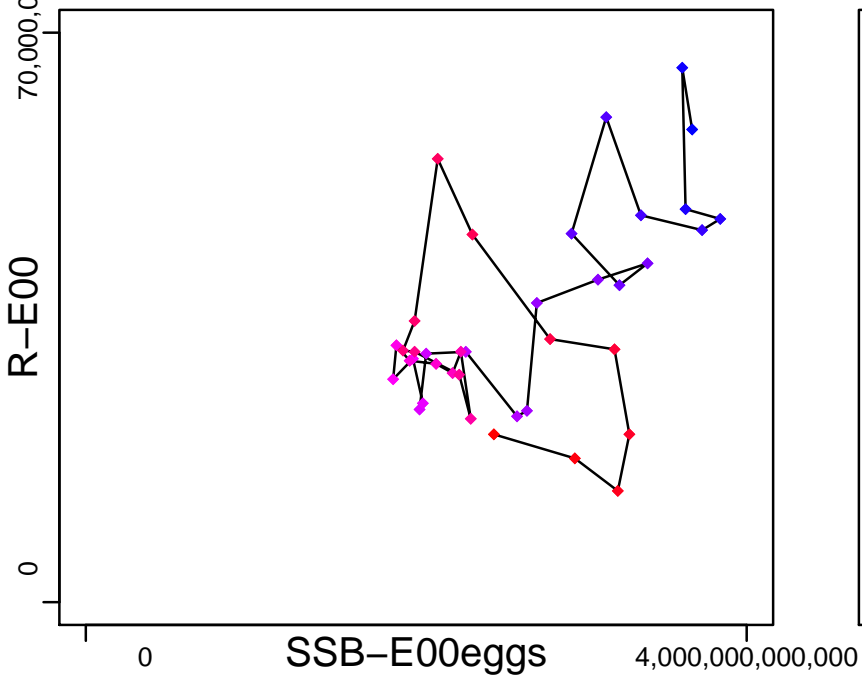
Kobe MSYpref (1977–2016–SISIMP2021)



Kobe MGTpref (1977–2016–SISIMP2021)



Spawner Recruit (1977–2016–SISIMP2021)



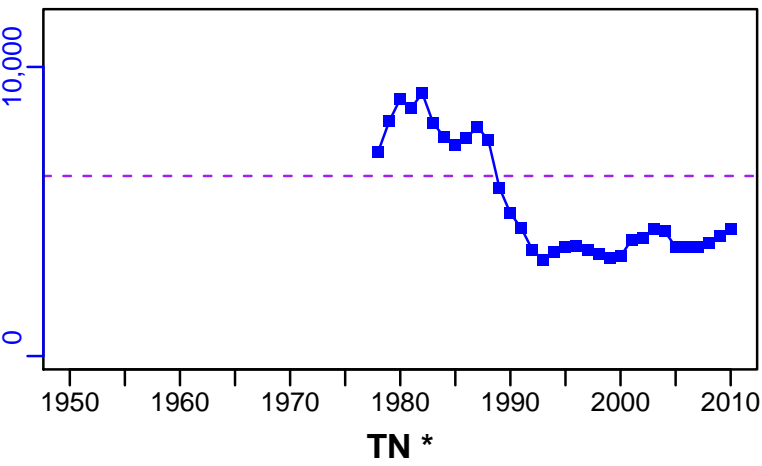
Production*



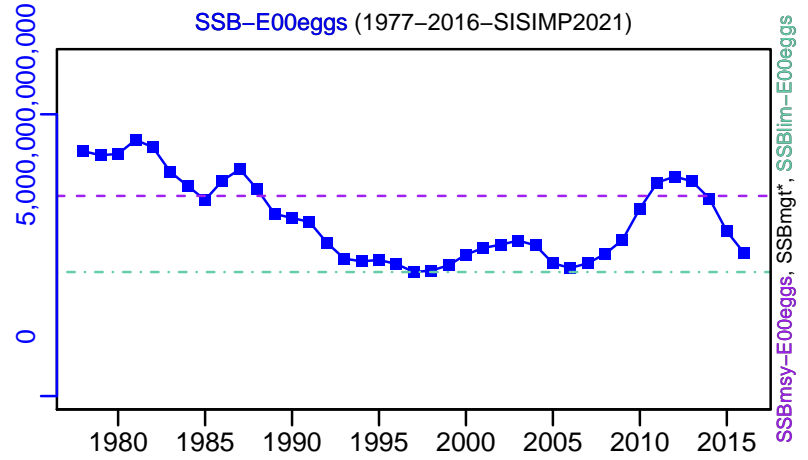
◆ Start Year ◆ End Year * No Data

Black sea bass South Atlantic [BSBASSSATL]

TB-MT (1950-2010-HIVELY)



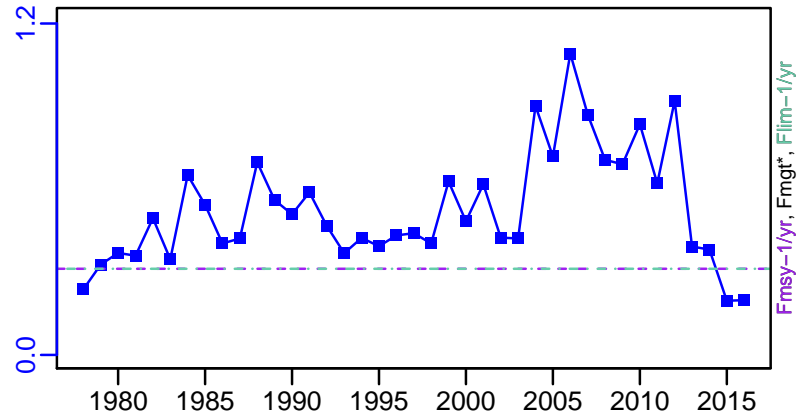
SSB-E00eggs (1977-2016-SISIMP2021)



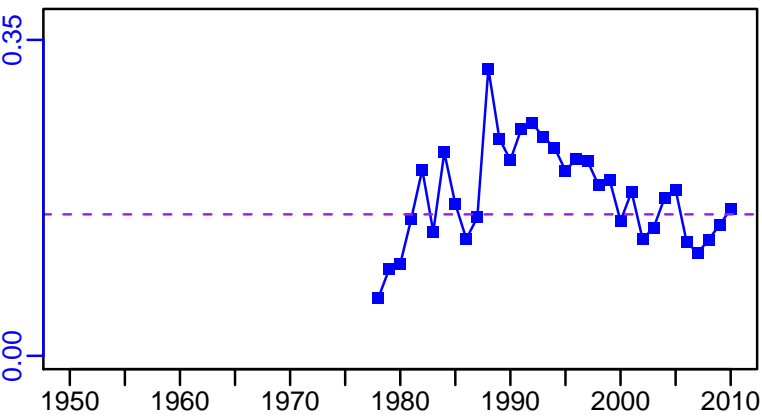
TN *



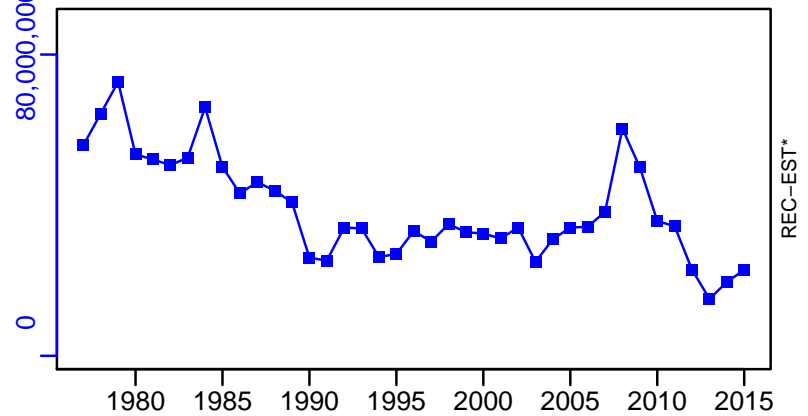
F-1/yr (1977-2016-SISIMP2021)



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

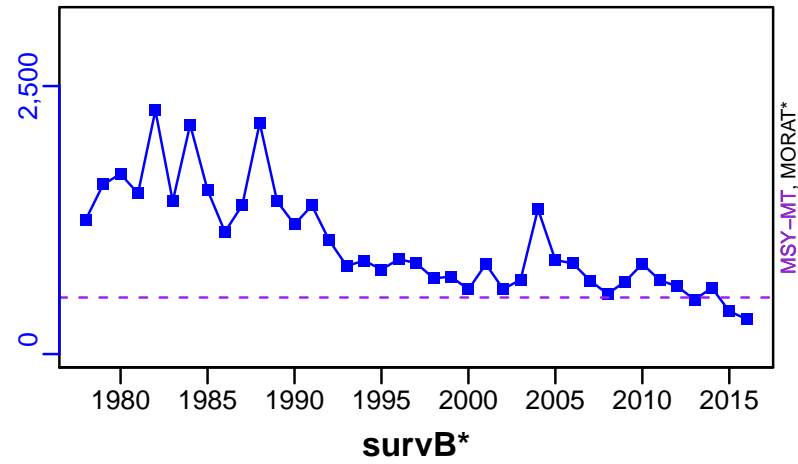


R-E00 (1977-2016-SISIMP2021)



Black sea bass South Atlantic [BSBASSSATL]

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



TAC*, Cpair*, Cadv*



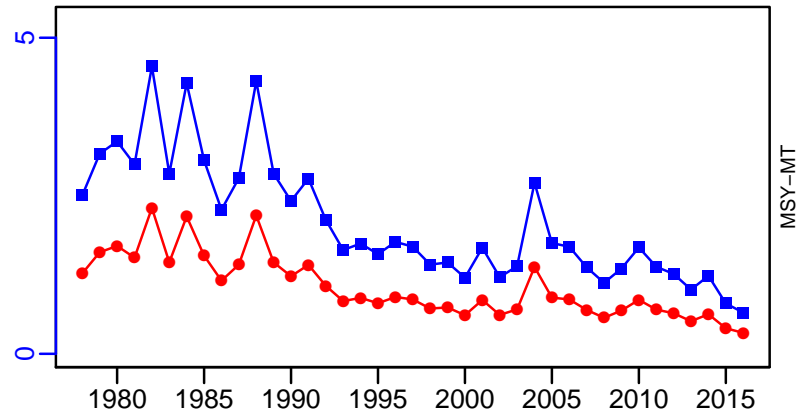
CPUE*



EFFORT*



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



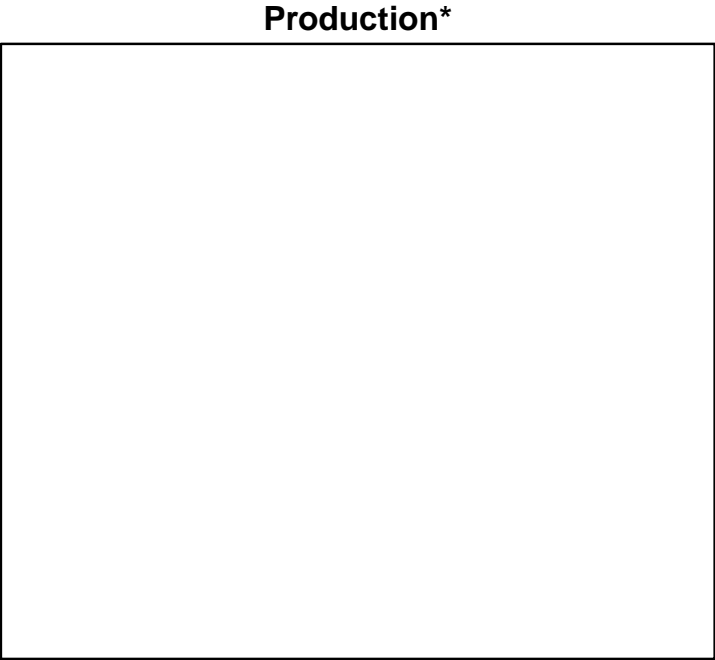
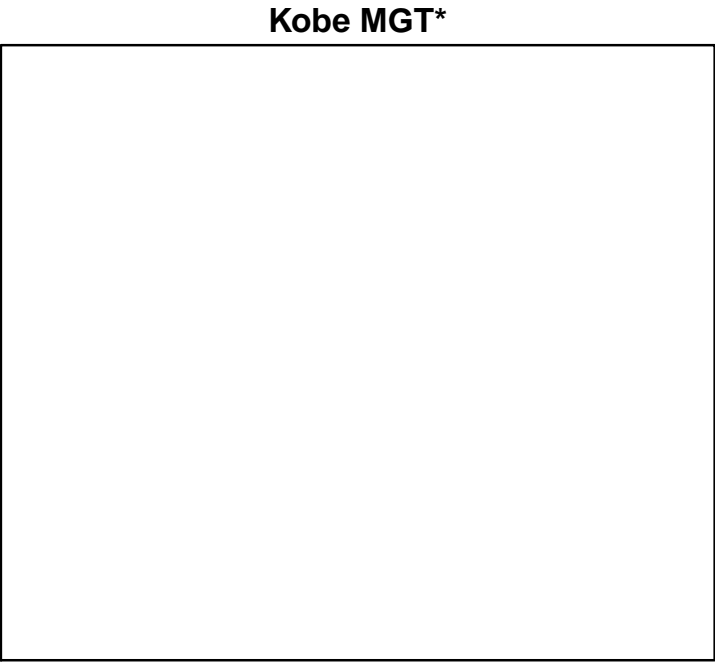
■ 1st listed time series ▲ 3rd listed time series — MORAT
 ● 2nd listed time series - - - MSY * No Data

Blacktip shark Atlantic [BTIPSHARATL]

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

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

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



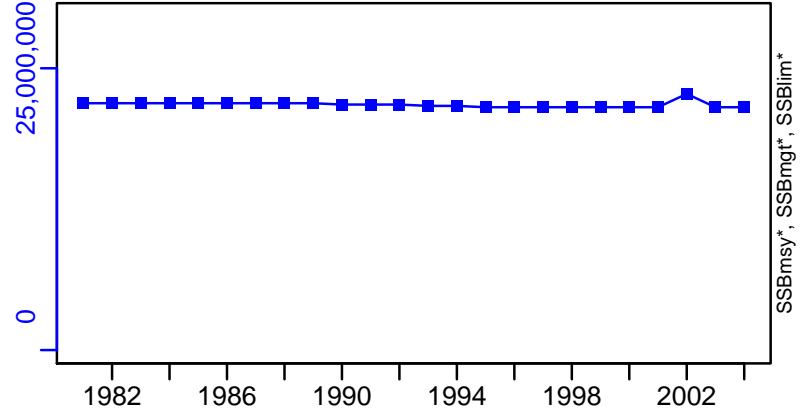
◆ Start Year ◆ End Year * No Data

Blacktip shark Atlantic [BTIPSHARATL]

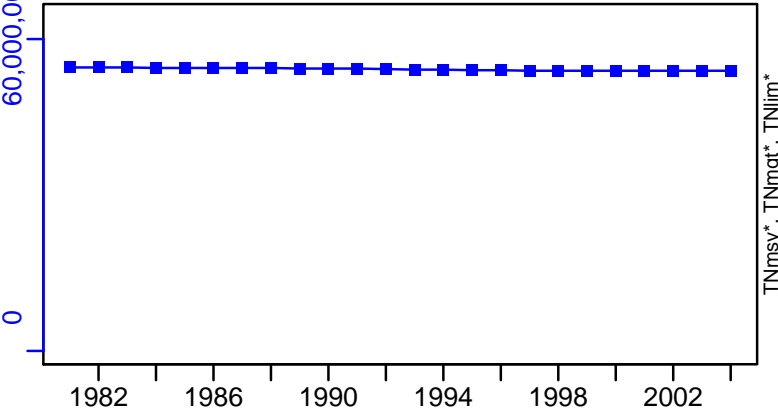
TB*



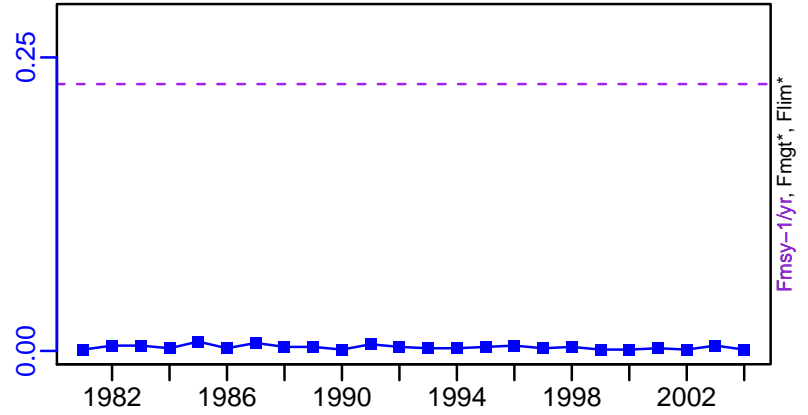
SSF-E00 (1981-2004-FAUCONNET)



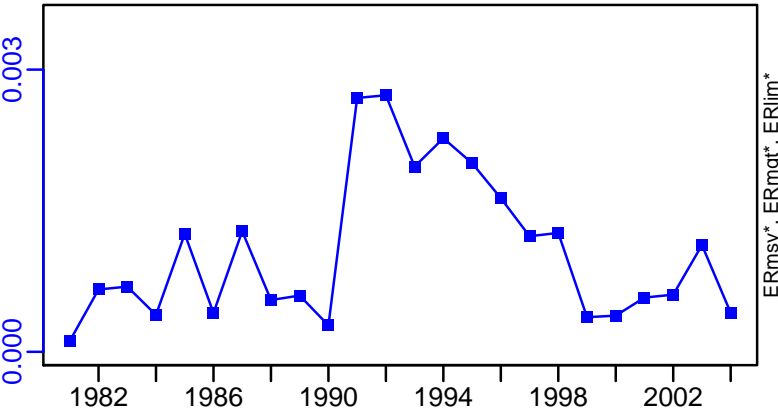
TN-E00 (1981-2004-FAUCONNET)



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



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

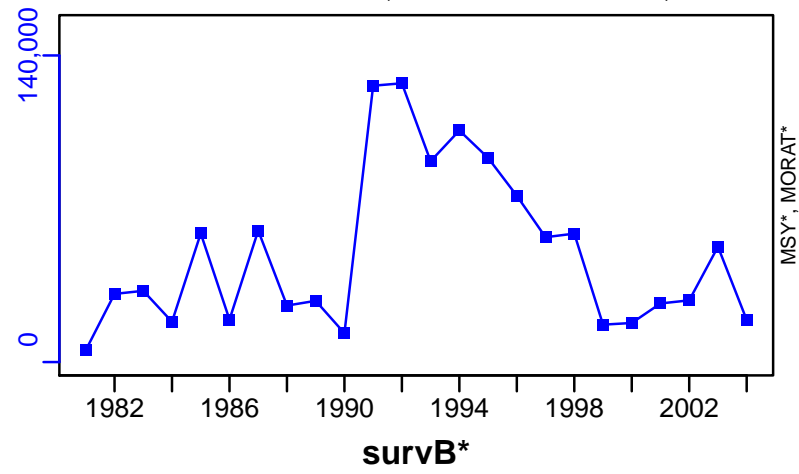


Recruits*



Blacktip shark Atlantic [BTIPSHARATL]

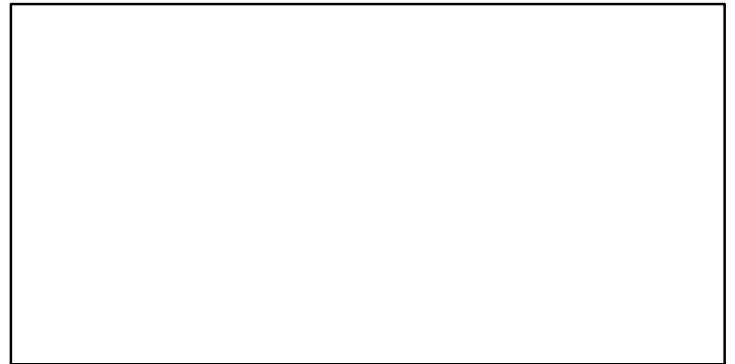
TC-E00, TL*, RecC* (1981-2004-FAUCONNET)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Blacktip shark Gulf of Mexico [BTIPSHARGM]

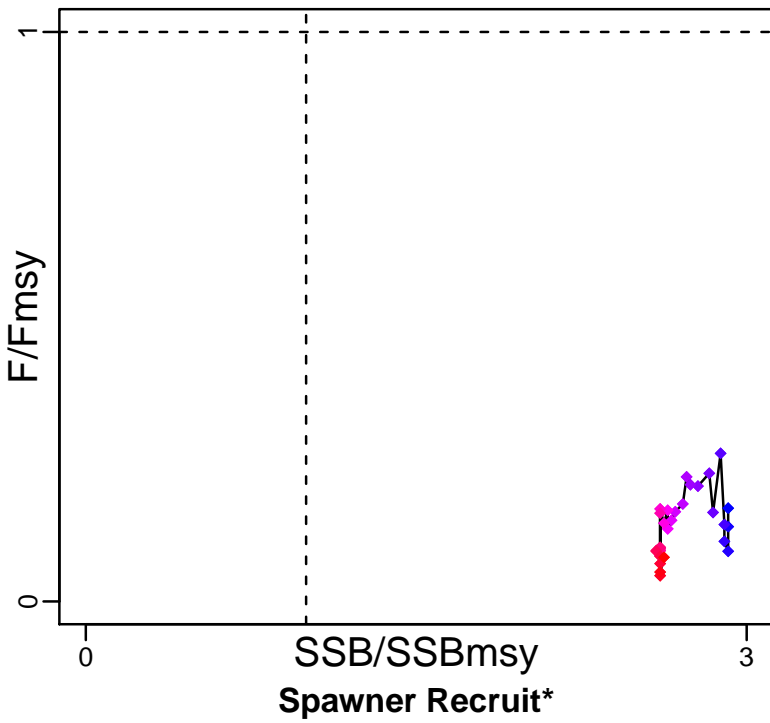
| Metadata | |
|-----------------------------|---|
| Scientific Name | Carcharhinus limbatus |
| Current Assess ID | SEFSC-BTIPSHARGM-1981-2010-HIVELY |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

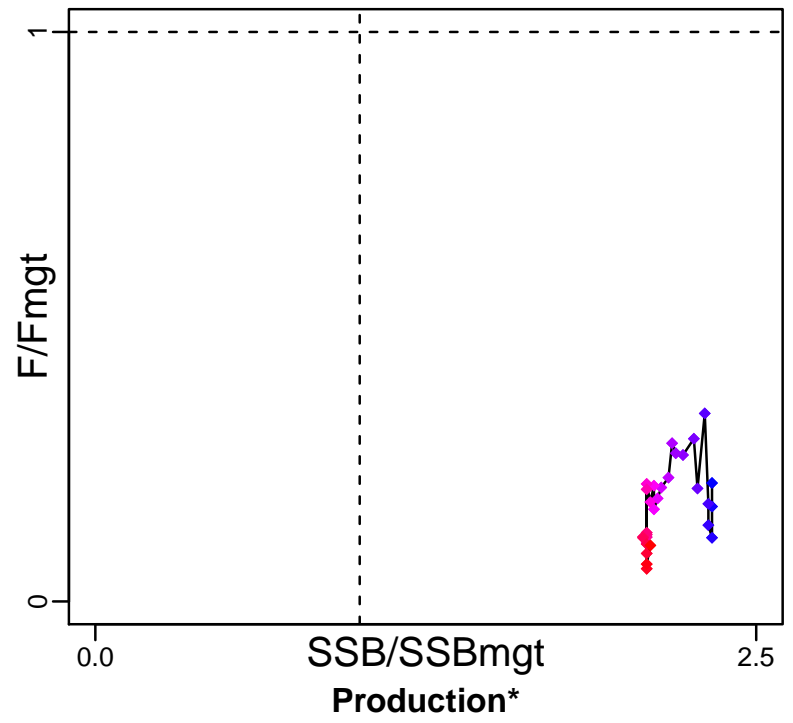
| Time Series | | | | | |
|-------------------|--------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSF-E00 | 2010 | 15,300,000 | - | - |
| TN | TN-E00 | 2010 | 23,800,000 | - | - |
| R | - | - | - | - | - |
|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

Blacktip shark Gulf of Mexico [BTIPSHARGM]

Kobe MSYpref (1981–2010–HIVELY)



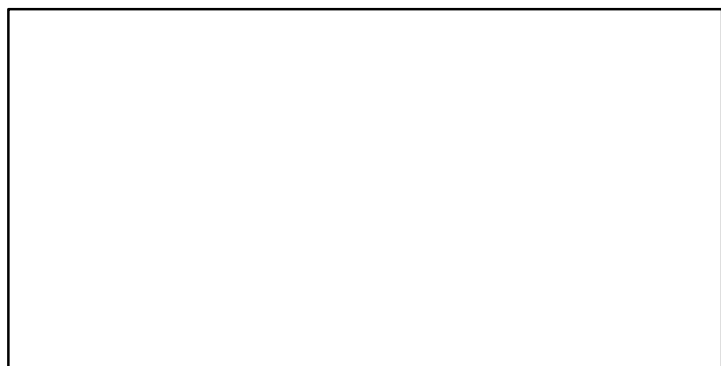
Kobe MGTpref (1981–2010–HIVELY)



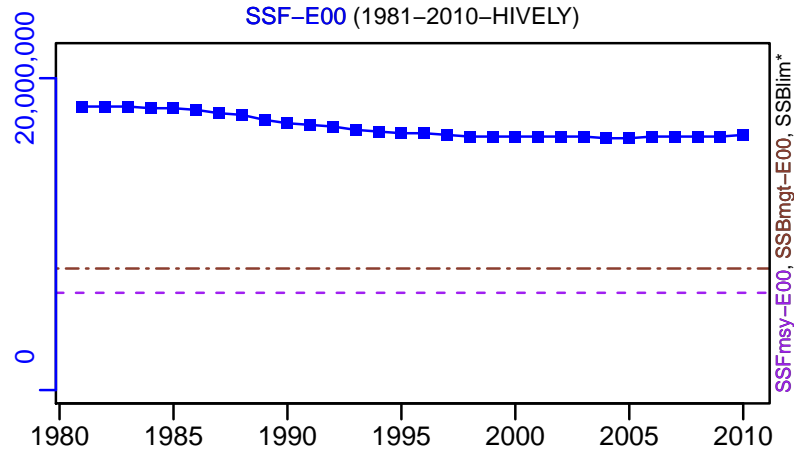
◆ Start Year ◆ End Year * No Data

Blacktip shark Gulf of Mexico [BTIPSHARGM]

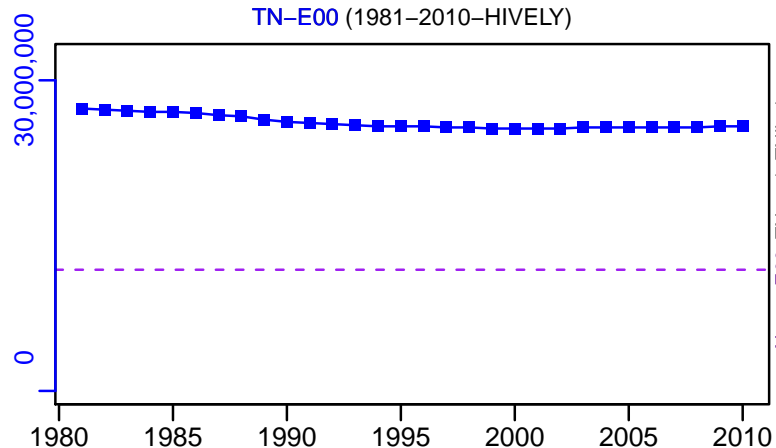
TB*



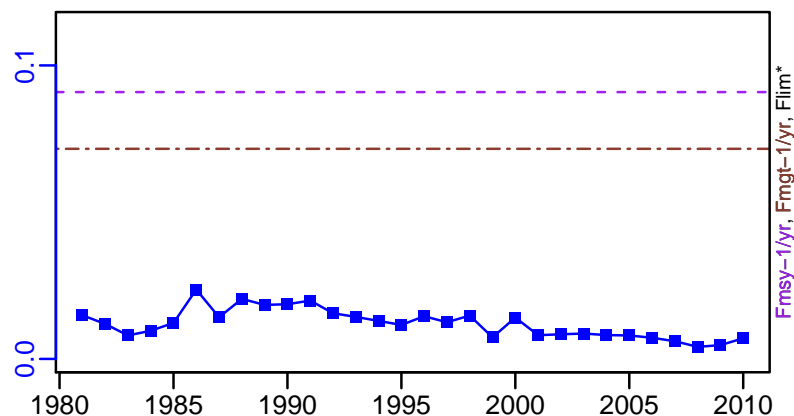
SSF-E00 (1981-2010-HIVELY)



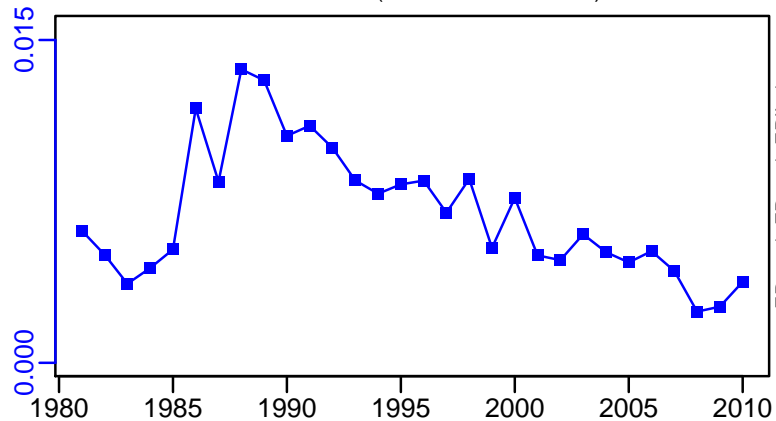
TN-E00 (1981-2010-HIVELY)



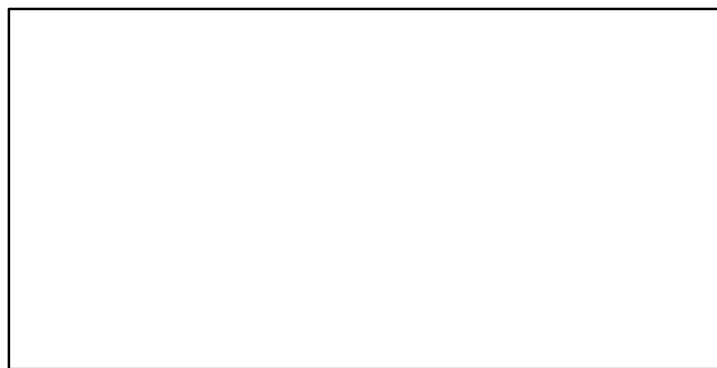
F-1/yr (1981-2010-HIVELY)



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

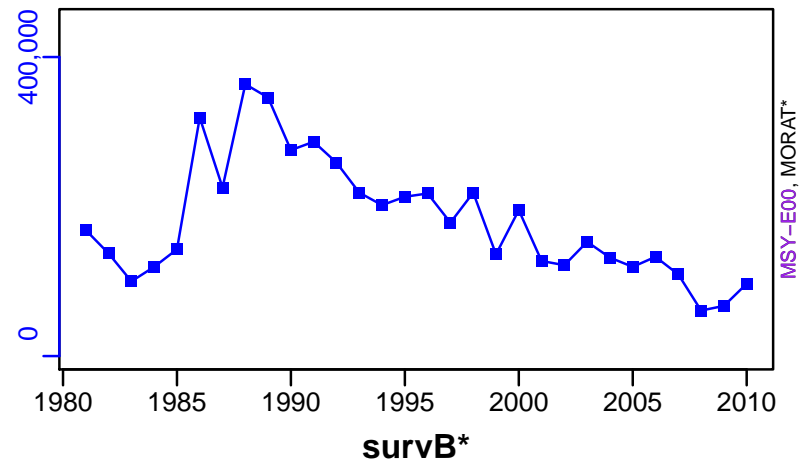


Recruits*



Blacktip shark Gulf of Mexico [BTIPSHARGM]

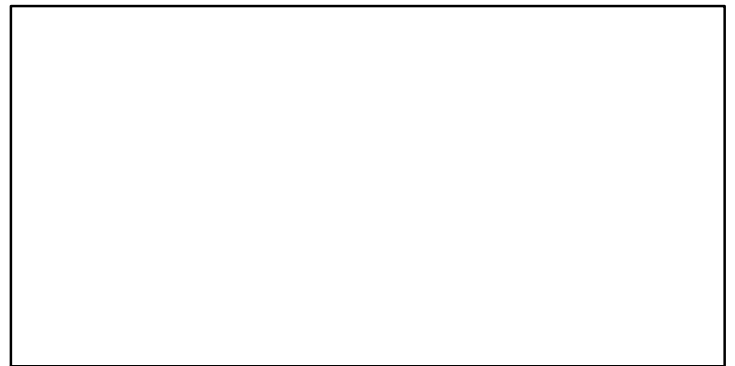
TC-E00, TL*, RecC* (1981-2010-HIVELY)



TAC*, Cpair*, Cadv*



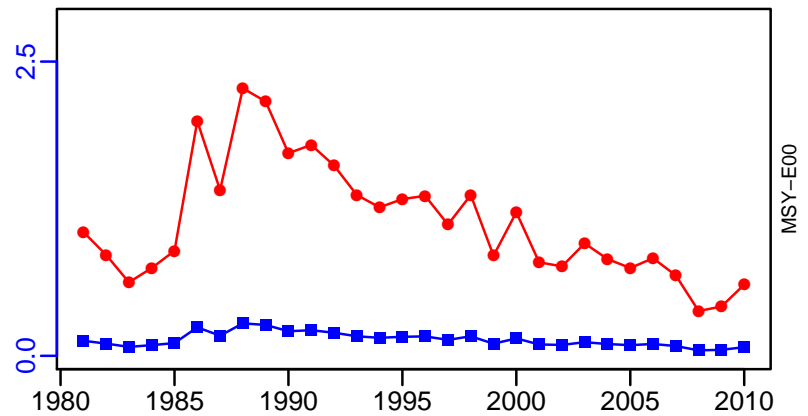
CPUE*



EFFORT*



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



Cobia Gulf of Mexico [COBGM]

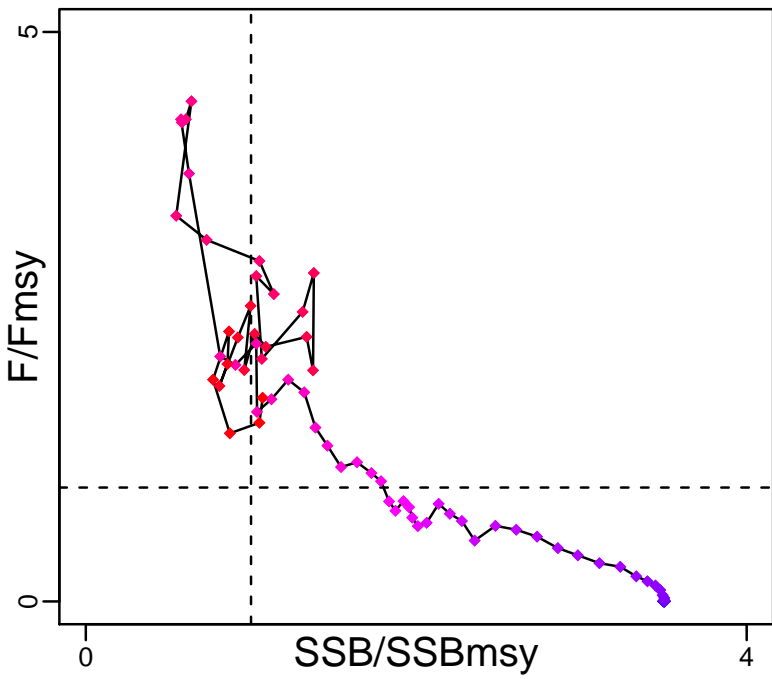
| Metadata | |
|-----------------------------|---|
| Scientific Name | Rachycentron canadum |
| Current Assess ID | SEFSC-COBGM-1927-2011-SISIMP2016 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2011 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-MT | 2011 | 2065 |
| Fmsy | Fmsy-1/yr | 2011 | 0.378 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 0.378 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2011 | 1208 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2011 | 1280 |
| Flim | Flim-1/yr | 2011 | 0.378 |
| ERlim | - | - | - |

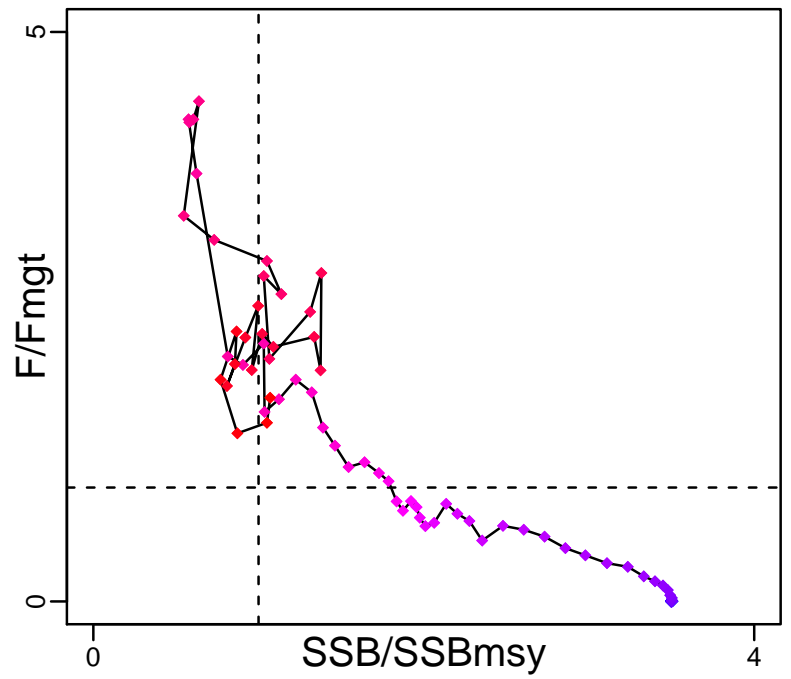
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2011 | 3020 | - | 1+ |
| SSB | SSB-MT | 2011 | 2210 | Females | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 1,350,000 | - | 0 |
| F | F-1/yr | 2011 | 0.676 | - | - |
| ER | ER-calc-ratio | 2011 | 0.287 | - | - |
| TC | TC-MT | 2011 | 866 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-MT | 2011 | 1.07 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2011 | 1.788 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 1.788 | | |
| ER/ERmgt | - | - | - | | |

Cobia Gulf of Mexico [COBGM]

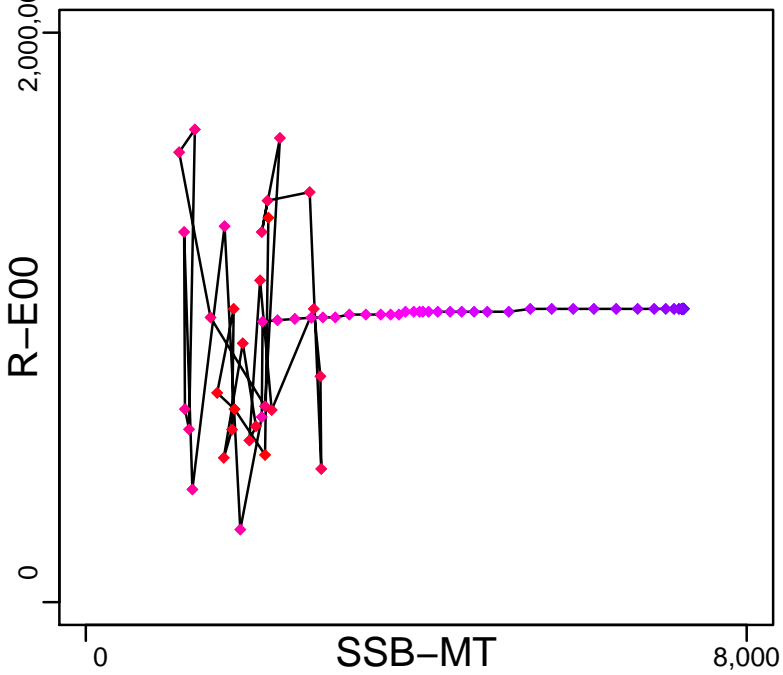
Kobe MSYpref (1927–2011–SISIMP2016)



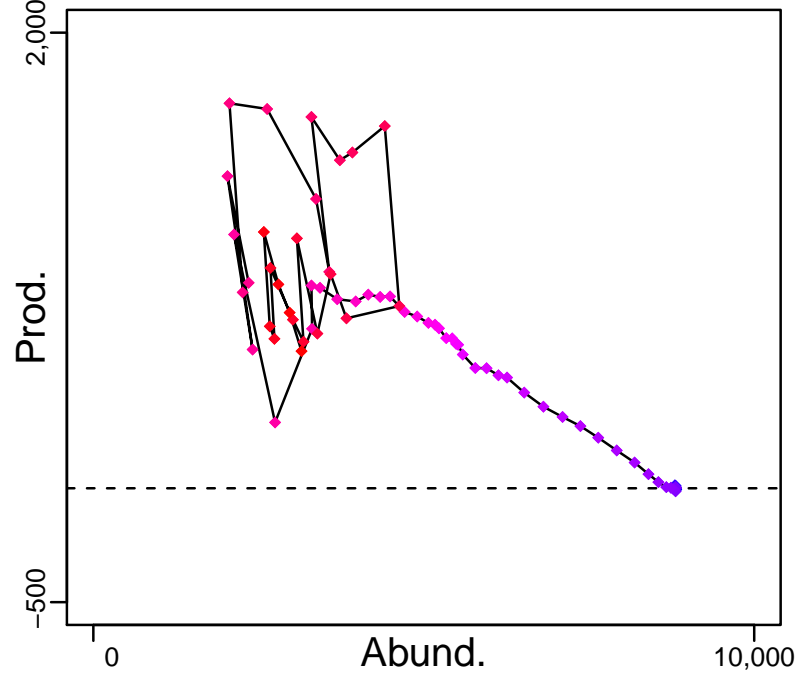
Kobe MGTpref (1927–2011–SISIMP2016)



Spawner Recruit (1927–2011–SISIMP2016)



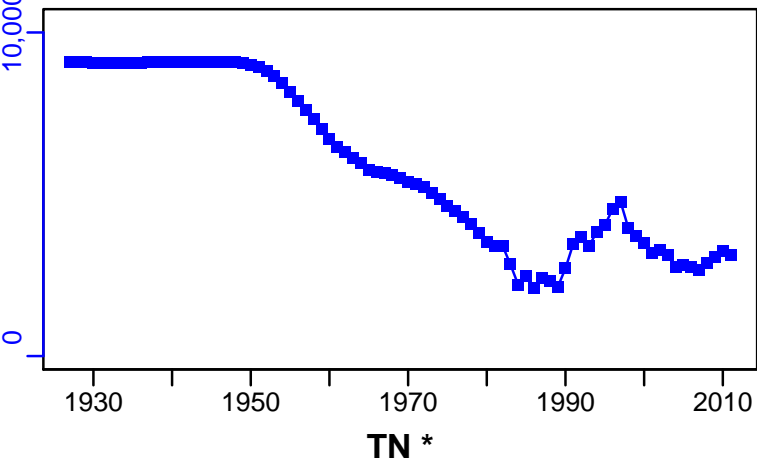
Production (1927–2011–SISIMP2016)



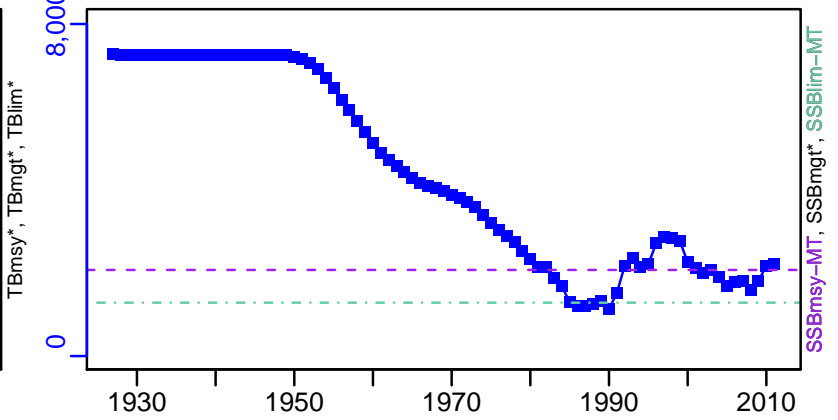
◆ Start Year ◆ End Year * No Data

Cobia Gulf of Mexico [COBGM]

TB-MT (1927-2011-SISIMP2016)



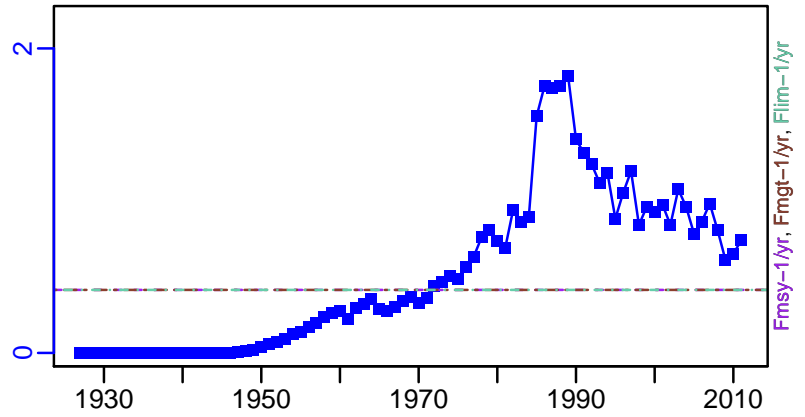
SSB-MT (1927-2011-SISIMP2016)



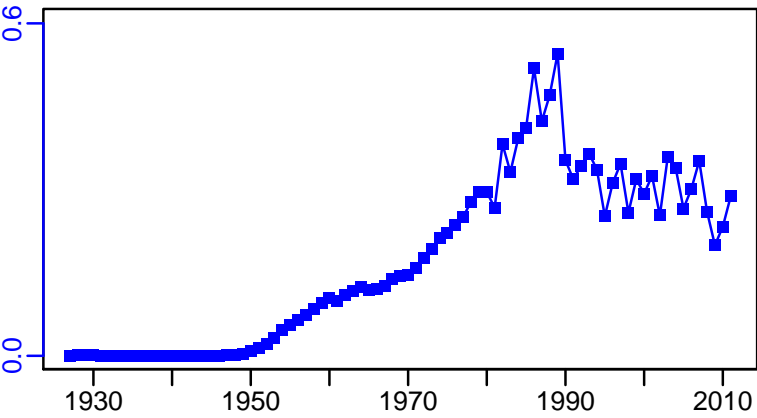
TN *



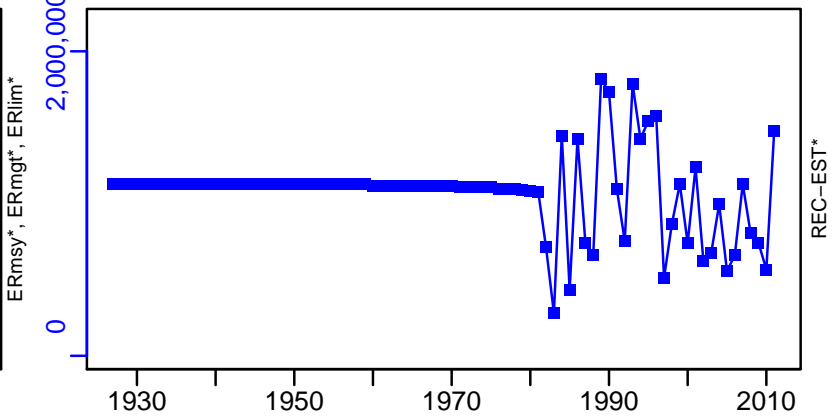
F-1/yr (1927-2011-SISIMP2016)



ER-calc-ratio (1927-2011-SISIMP2016)

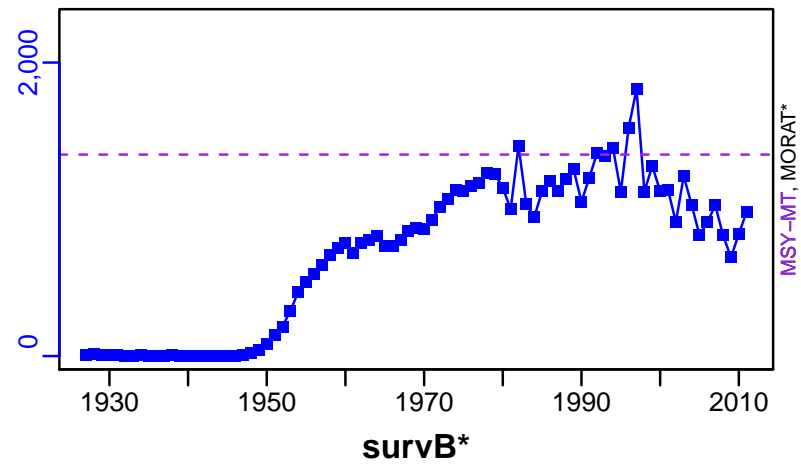


R-E00 (1927-2011-SISIMP2016)



Cobia Gulf of Mexico [COBGM]

TC-MT, TL*, RecC* (1927-2011-SISIMP2016)



TAC*, Cpair*, Cadv*



survB*



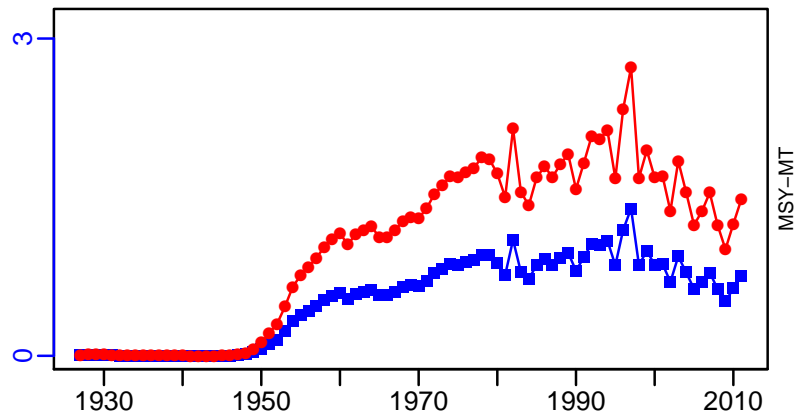
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1927-2011-SISIMP2016)



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

Cobia Southern Atlantic coast [COBSATLC]

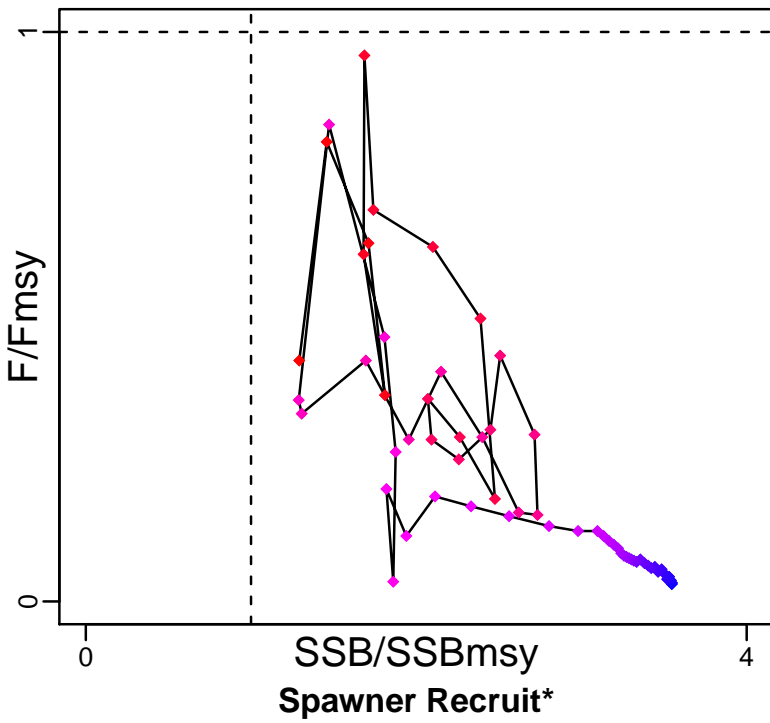
| Metadata | |
|-----------------------------|---|
| Scientific Name | Rachycentron canadum |
| Current Assess ID | SEFSC-COBSATLC-1950-2011-SISIMP2016 |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries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

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

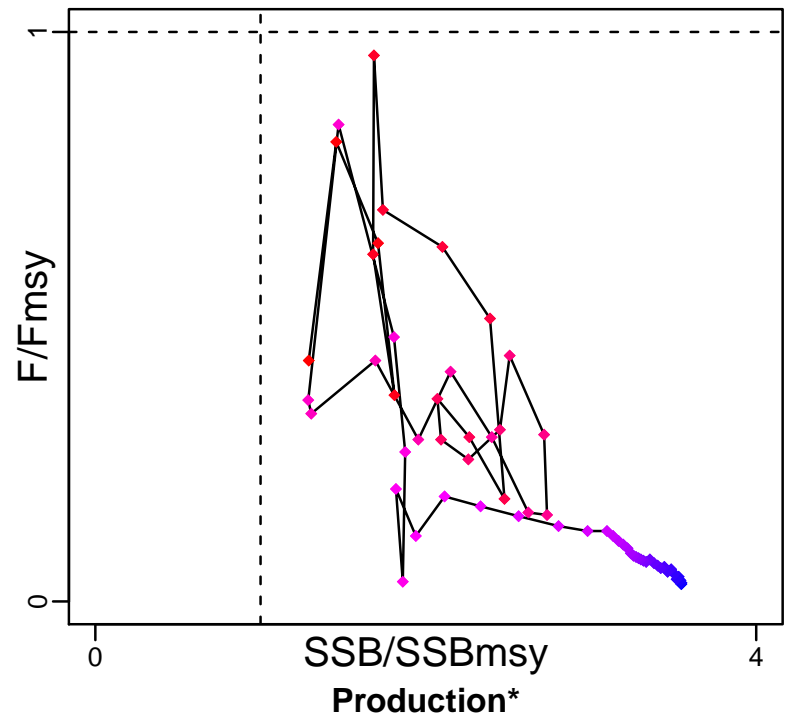
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2011 | 693 | Females | 2+ |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2011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

Cobia Southern Atlantic coast [COBSATLC]

Kobe MSYpref (1950–2011–SISIMP2016)



Kobe MGTpref (1950–2011–SISIMP2016)



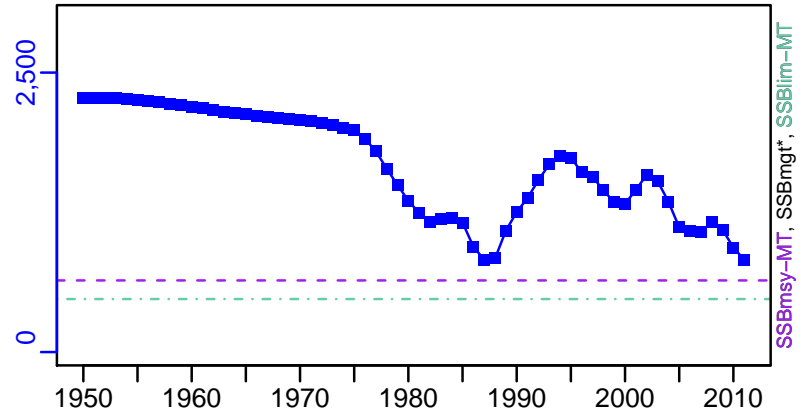
◆ Start Year ◆ End Year * No Data

Cobia Southern Atlantic coast [COBSATLC]

TB*



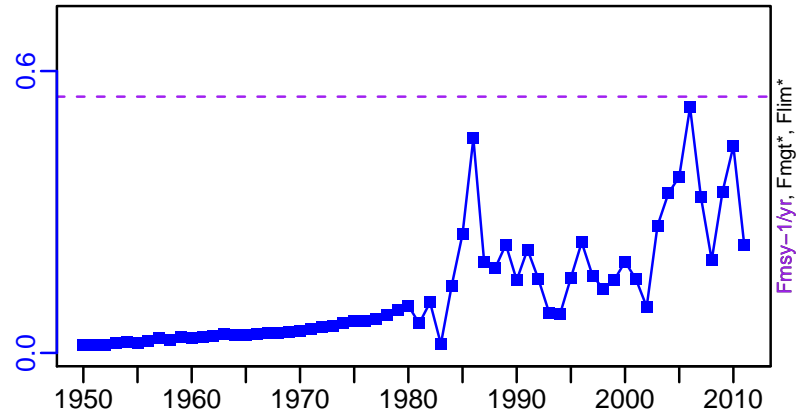
SSB-MT (1950–2011–SISIMP2016)



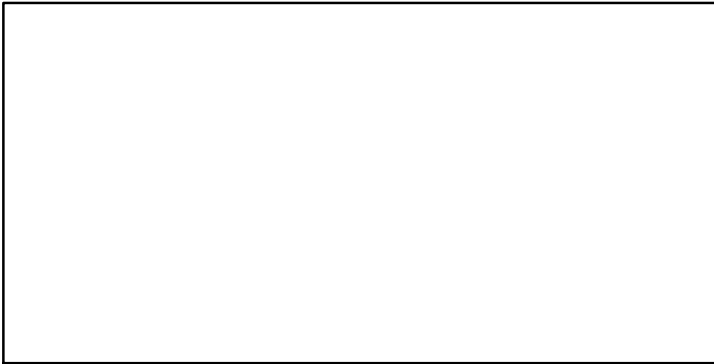
TN *



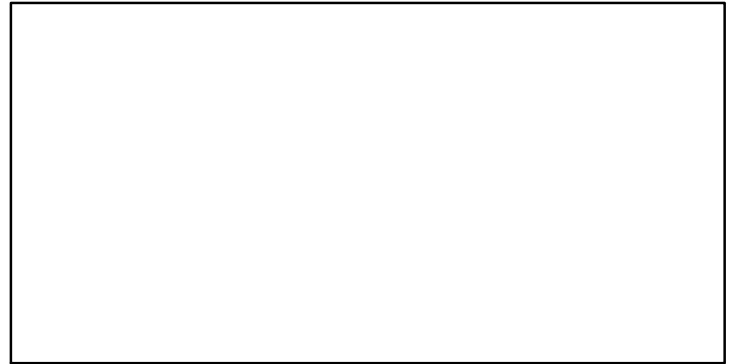
F-1/yr (1950–2011–SISIMP2016)



ER*

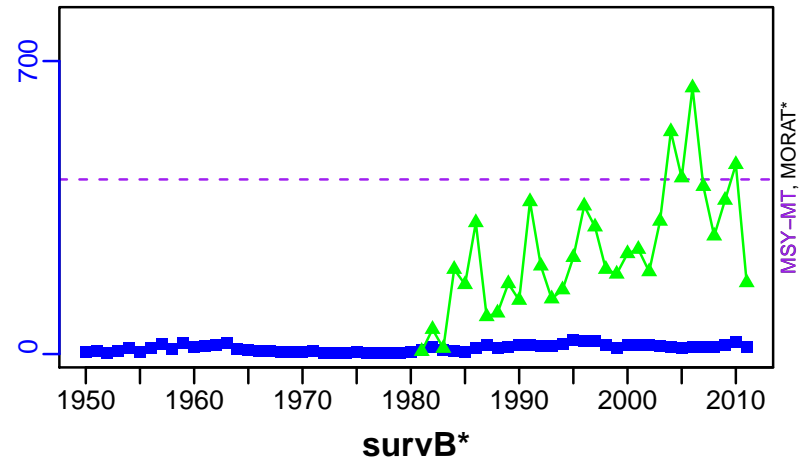


Recruits*



Cobia Southern Atlantic coast [COBSATLC]

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



TAC*, Cpair*, Cadv*



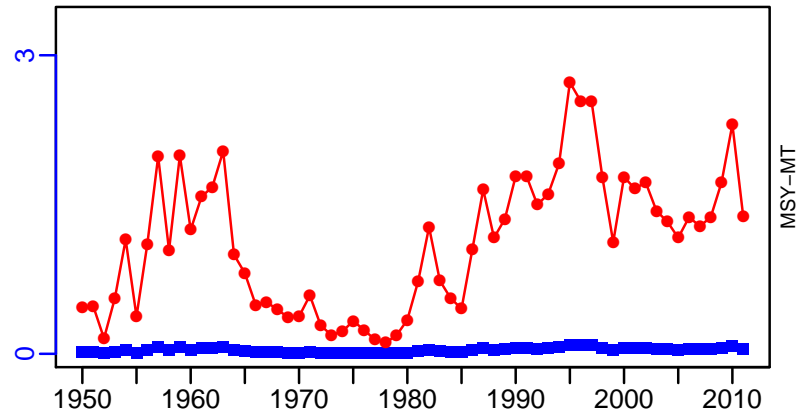
CPUE*



EFFORT*



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



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

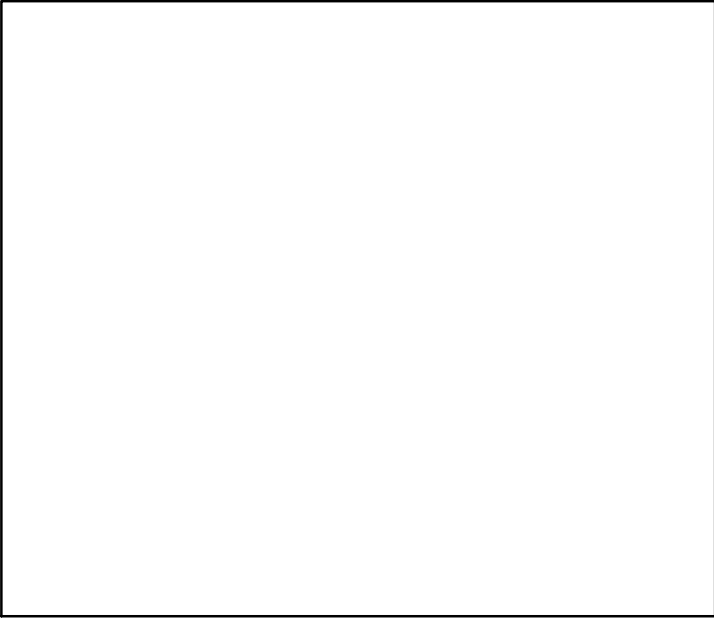
Dusky shark Gulf of Mexico and Atlantic [DSKSHARGMATL]

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

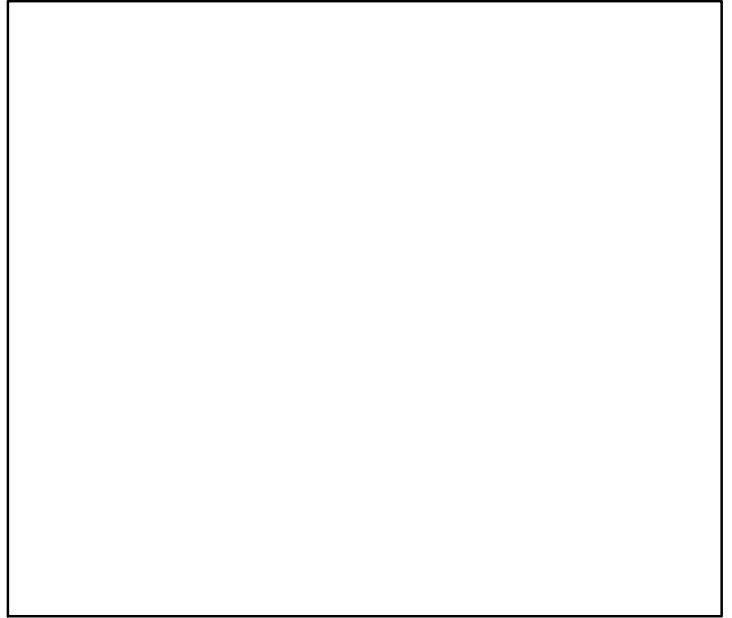
| Reference Points | | | |
|------------------|----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | Fmsy-extr-1/yr | 2009 | 0.034 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt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

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

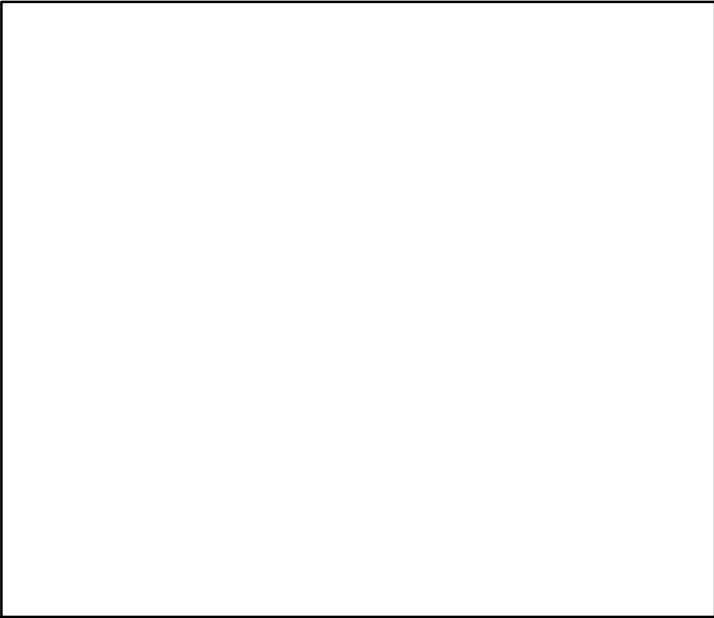
Kobe MSY*



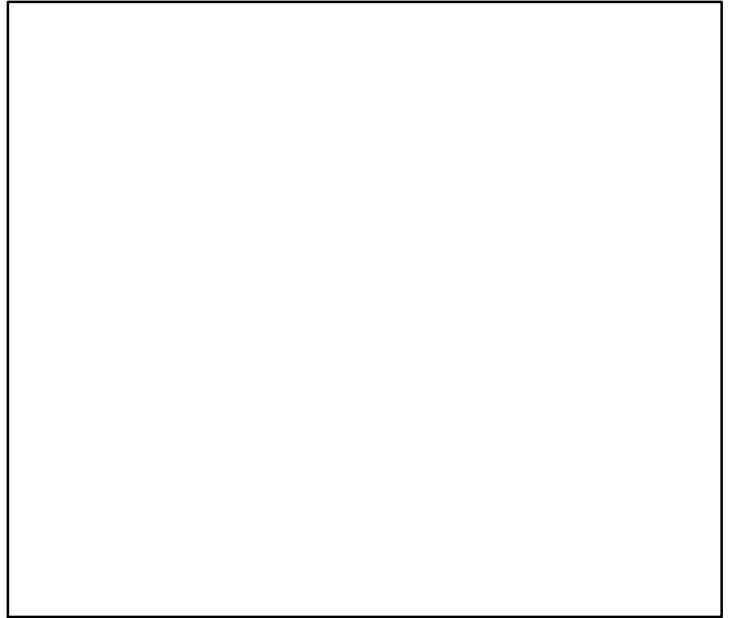
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Dusky shark Gulf of Mexico and Atlantic [DSKSHARGMATL]

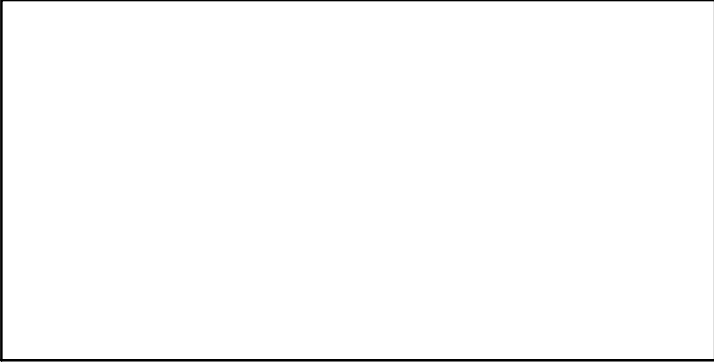
TB*



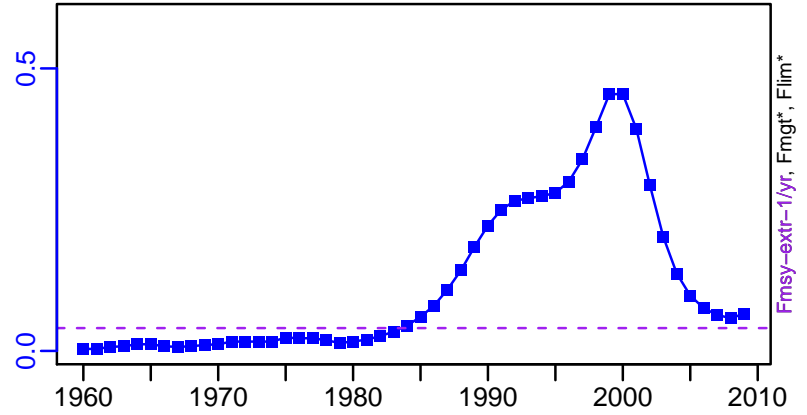
SSB*



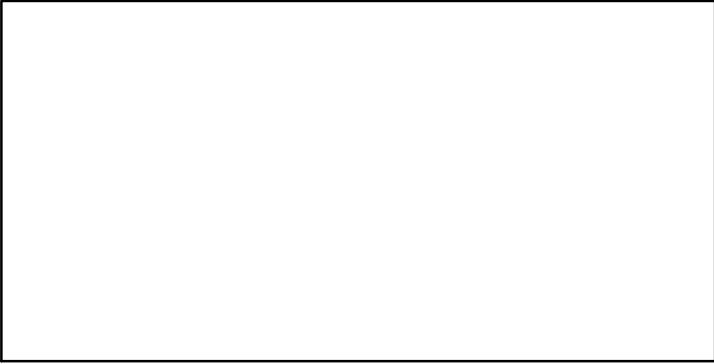
TN *



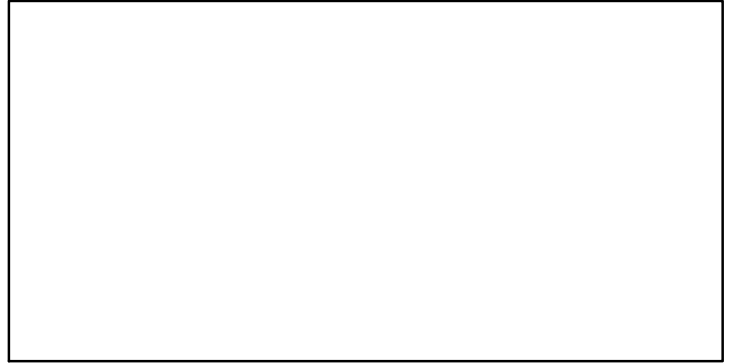
F-1/yr (1960–2009–SISIMP2016)



ER*

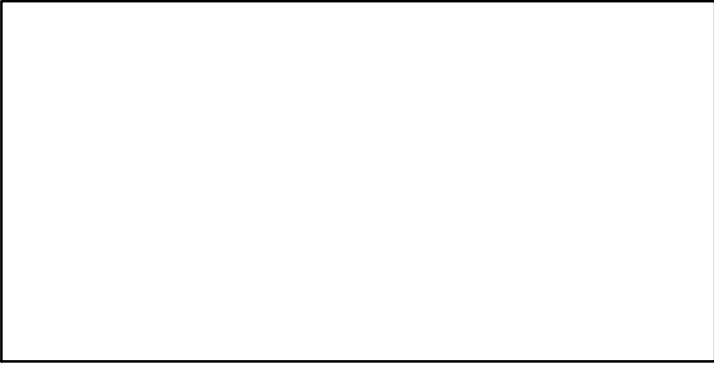


Recruits*



Dusky shark Gulf of Mexico and Atlantic [DSKSHARGMATL]

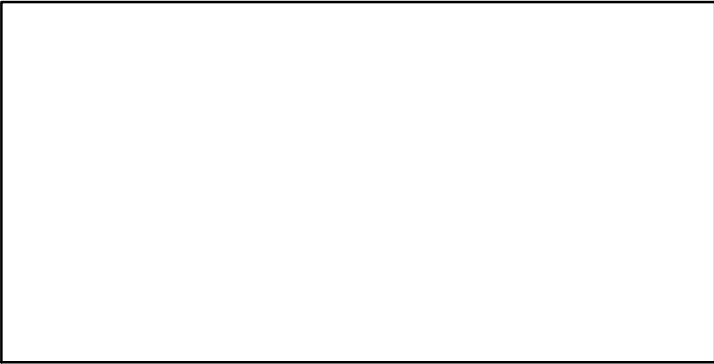
TC*, TL*, RecC*



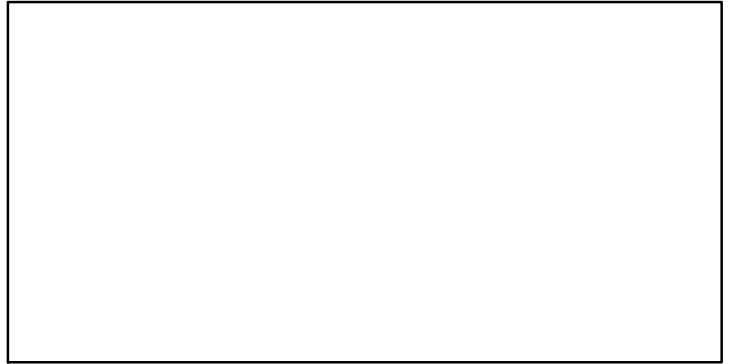
TAC*, Cpair*, Cadv*



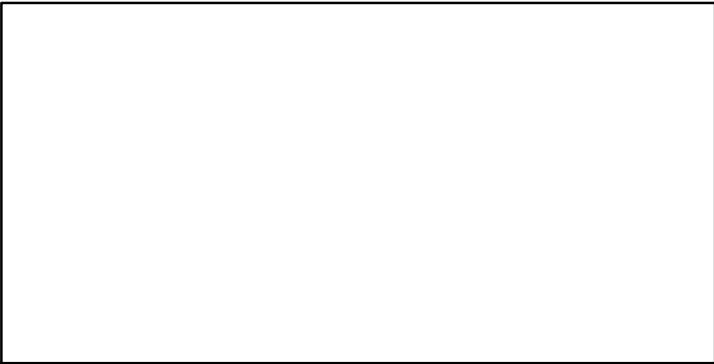
survB*



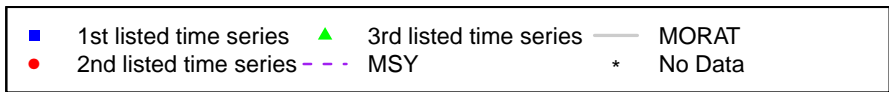
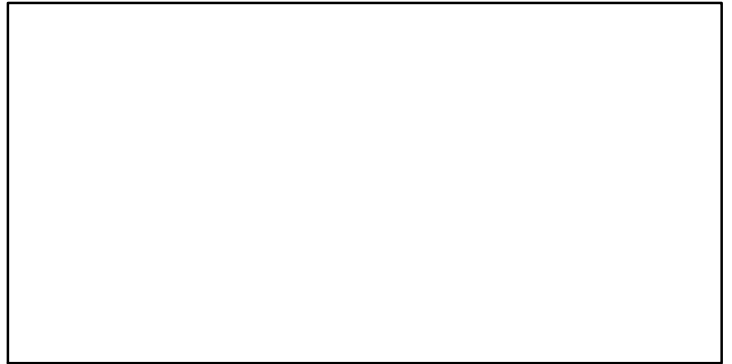
CPUE*



EFFORT*



CdivMSY*



Finetooth shark Atlantic [FTOOTHSHARATL]

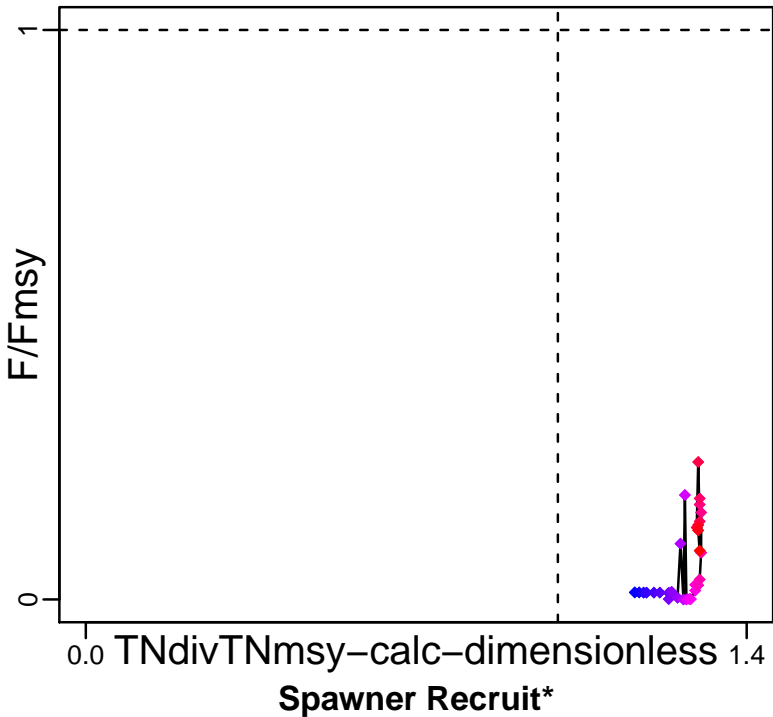
| Metadata | |
|-----------------------------|---|
| Scientific Name | Carcharhinus isodon |
| Current Assess ID | SEFSC-FTOOTHSHARATL-1976-2005-FAUCONNET |
| Area | Atlantic |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

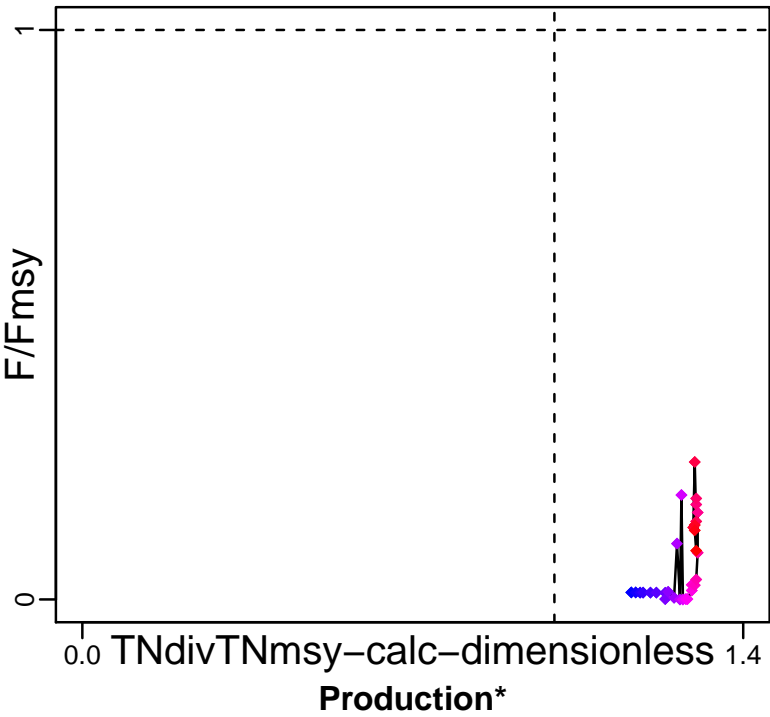
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | - | - | - | - | - |
| TN | TN-E00 | 2005 | 4,160,000 | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2005 |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

Finetooth shark Atlantic [FTOOTHSHARATL]

Kobe MSYpref (1976–2005–FAUCONNET)



Kobe MGTpref (1976–2005–FAUCONNET)



Finetooth shark Atlantic [FTOOTHSHARATL]

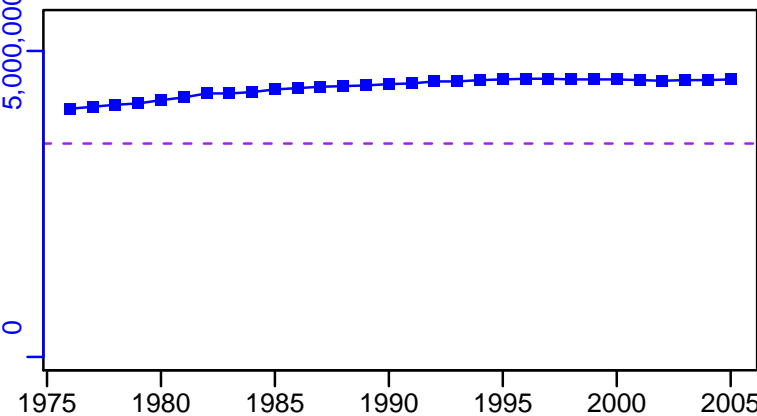
TB*



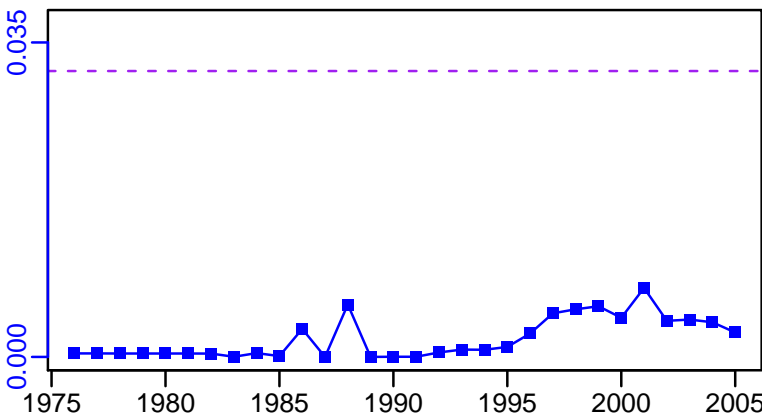
SSB*



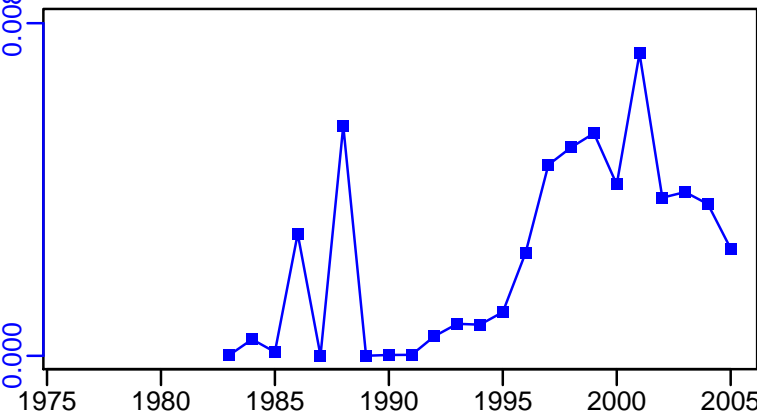
TN-E00 (1976-2005-FAUCONNET)



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



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

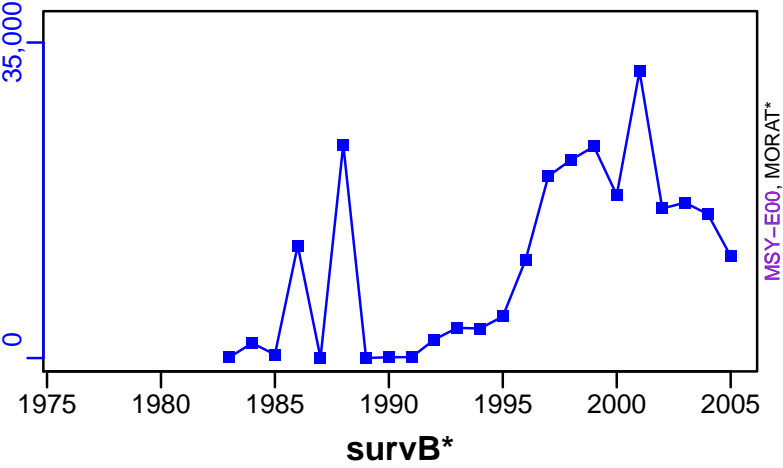


Recruits*



Finetooth shark Atlantic [FTOOTHSHARATL]

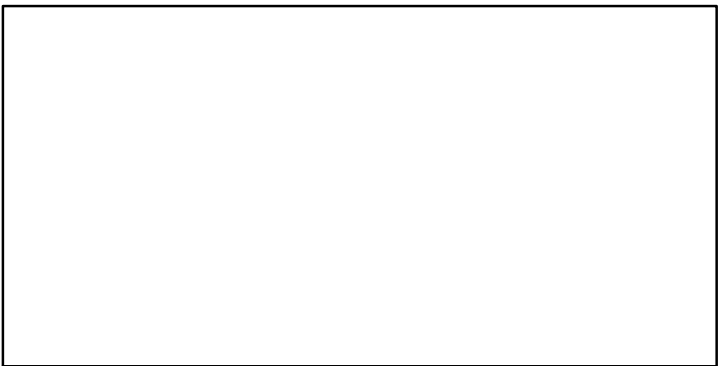
TC-E00, TL*, RecC* (1976-2005-FAUCONNET)



TAC*, Cpair*, Cadv*



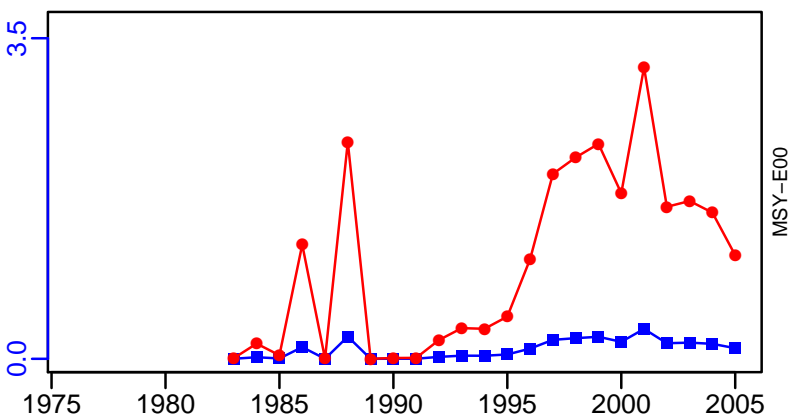
CPUE*



EFFORT*



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



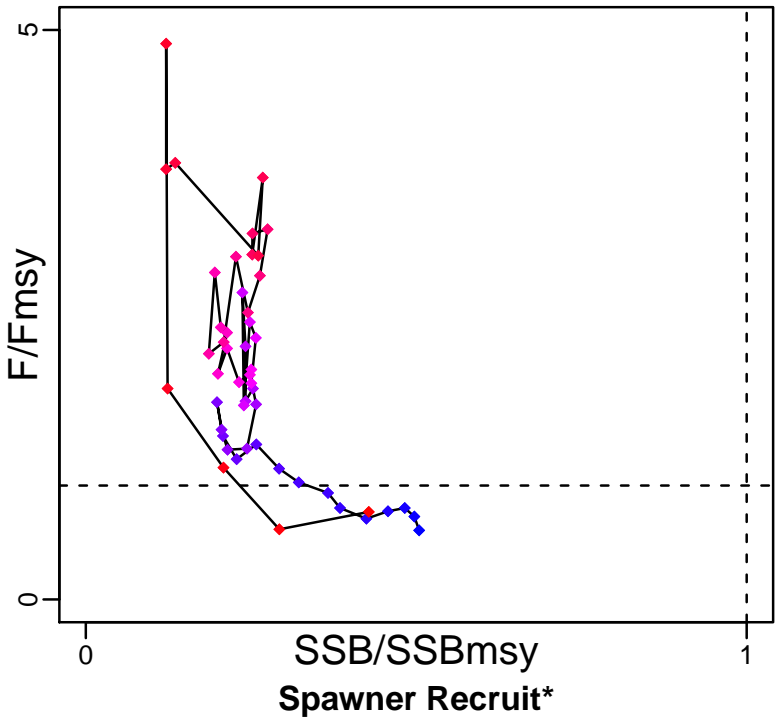
Gag Gulf of Mexico [GAGGM]

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

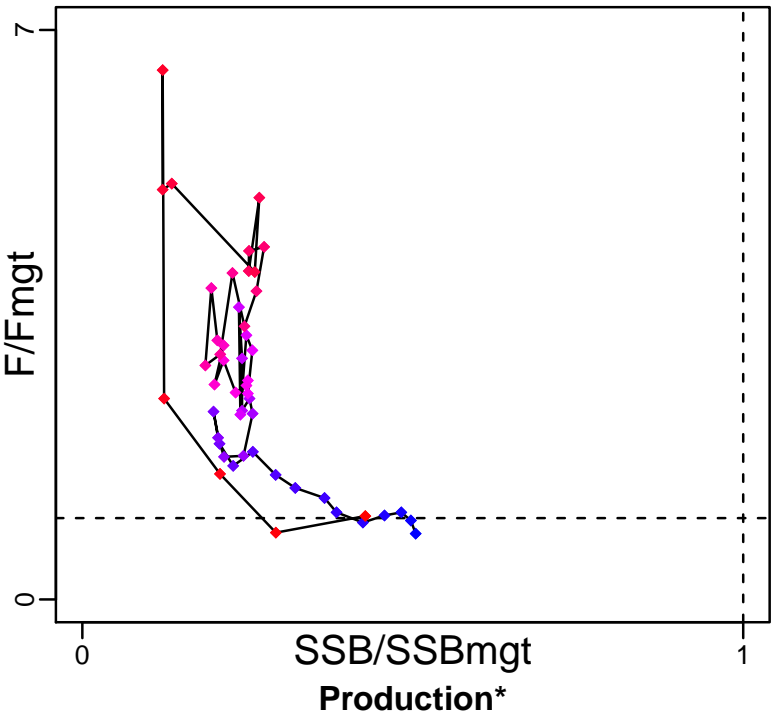
| Reference Points | | | |
|------------------|--------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-pr-MT | 2012 | 27,558 |
| Fmsy | Fmsy-pr-1/yr | 2012 | 0.108 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | SSBmgt-MT | 2012 | 27,558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

| Time Series | | | | | |
|-------------------|---------------------|-----------|------------|---------|------|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2012 | 11,800 | Females | 3.7+ |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2012 | 0.083 | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2012 | 237 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-pr-MT | 2012 | 0.428 | | |
| F/Fmsy | F-1/yr/Fmsy-pr-1/yr | 2012 | 0.769 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | SSB-MT/SSBmgt-MT | 2012 | 0.428 | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2012 | 1.025 | | |
| ER/ERmgt | - | - | - | | |

Kobe MSYpref (1963–2012–HIVELY)



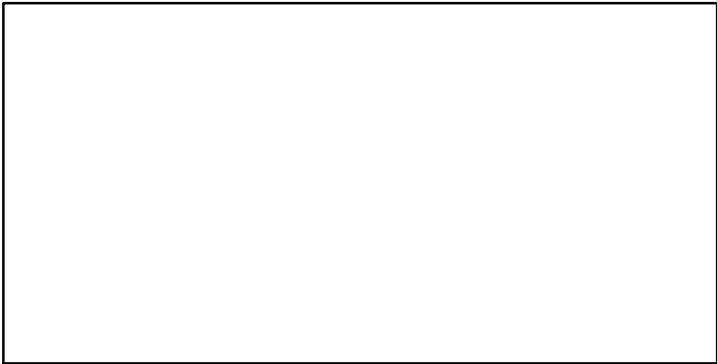
Kobe MGTpref (1963–2012–HIVELY)



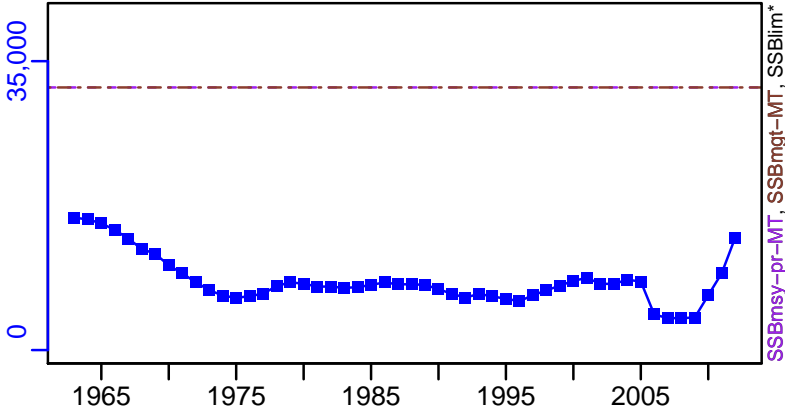
◆ Start Year ◆ End Year * No Data

Gag Gulf of Mexico [GAGGM]

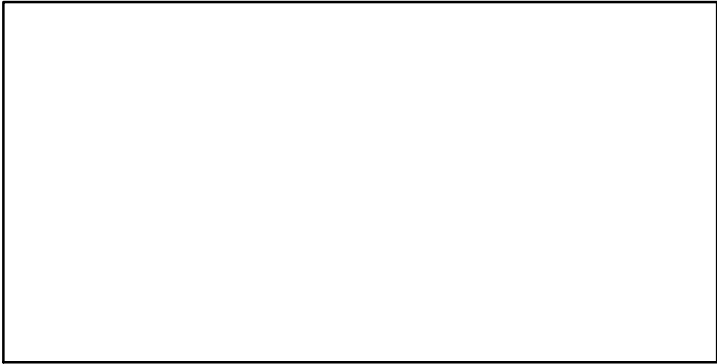
TB*



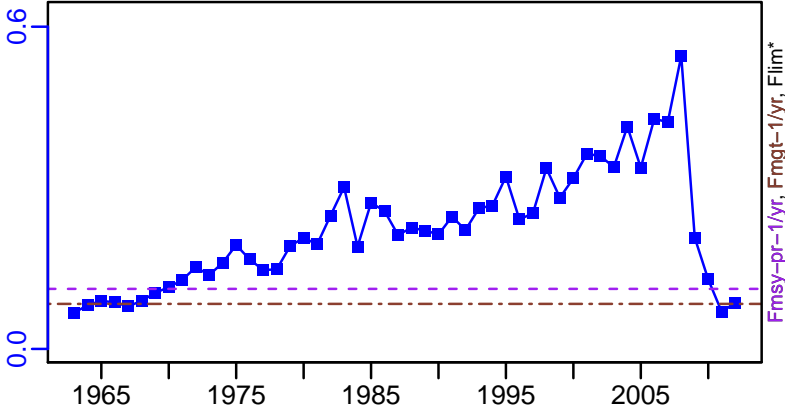
SSB-MT (1963–2012–HIVELY)



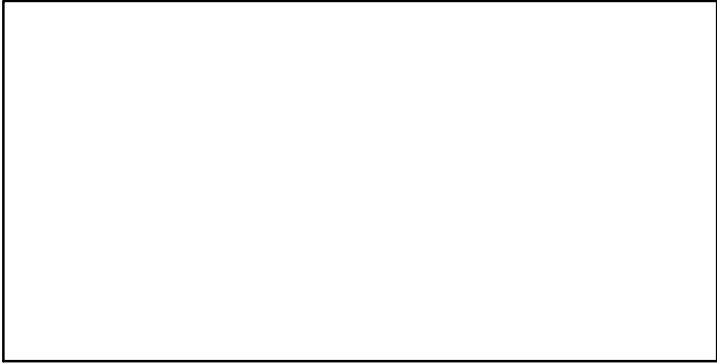
TN *



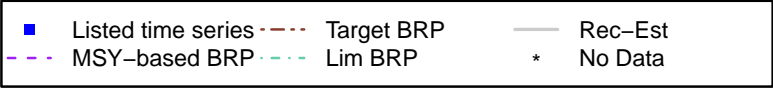
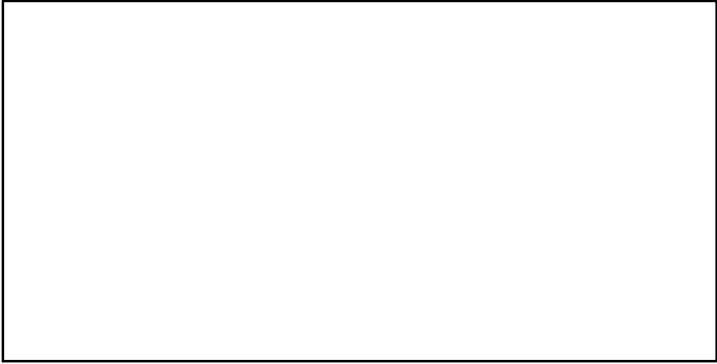
F-1/yr (1963–2012–HIVELY)



ER*

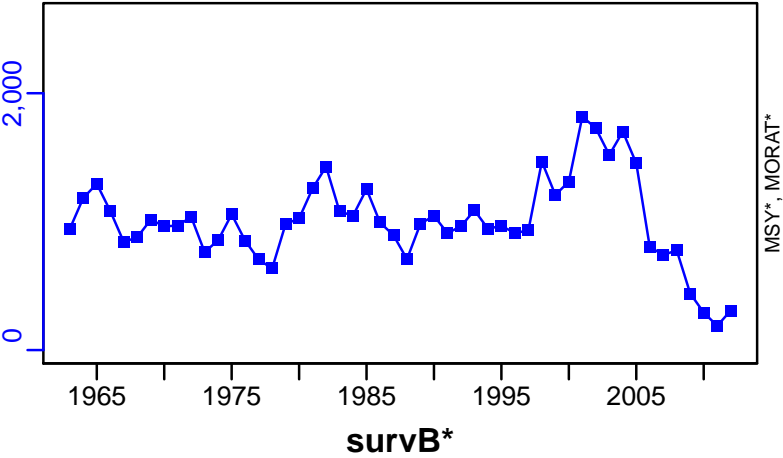


Recruits*

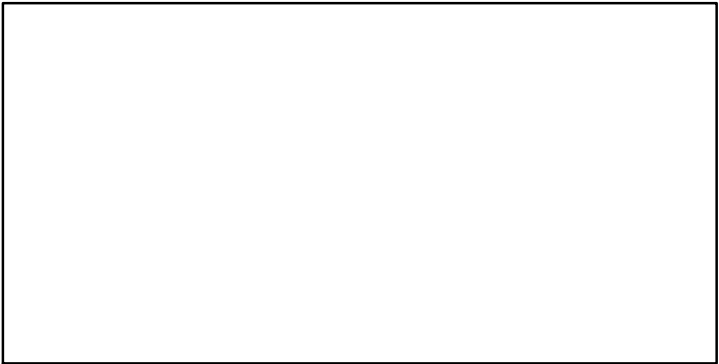


Gag Gulf of Mexico [GAGGM]

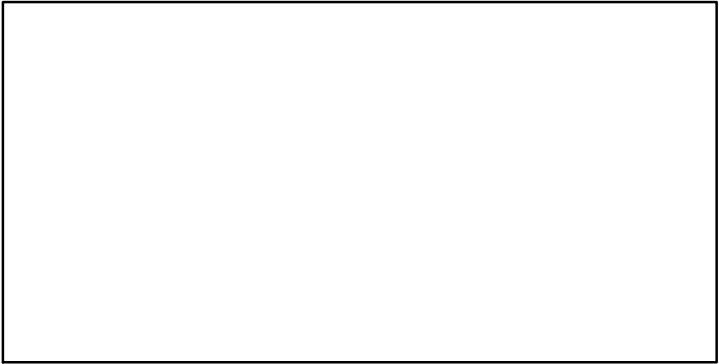
TC-MT, TL*, RecC* (1963-2012-HIVELY)



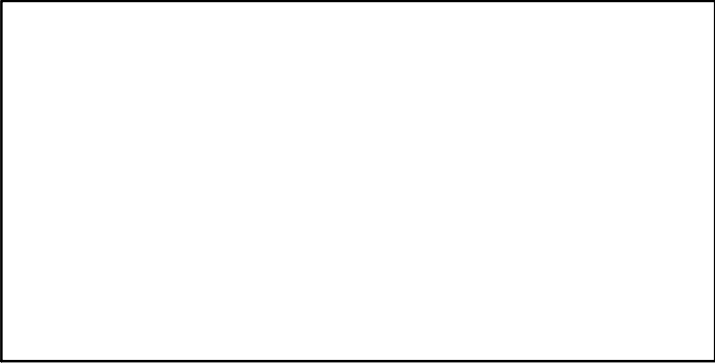
TAC*, Cpair*, Cadv*



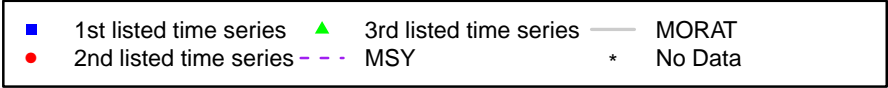
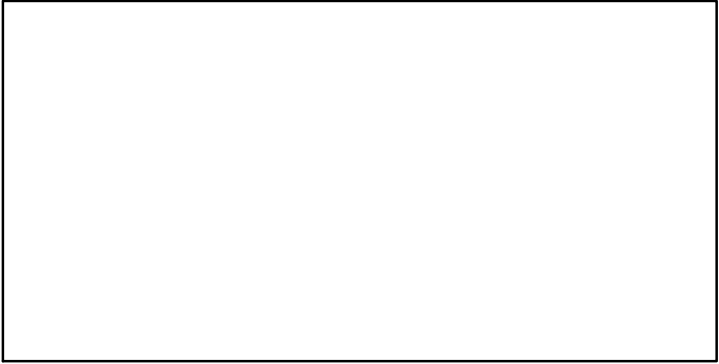
CPUE*



EFFORT*



CdivMSY*



Gag Southern Atlantic coast [GAGSATLC]

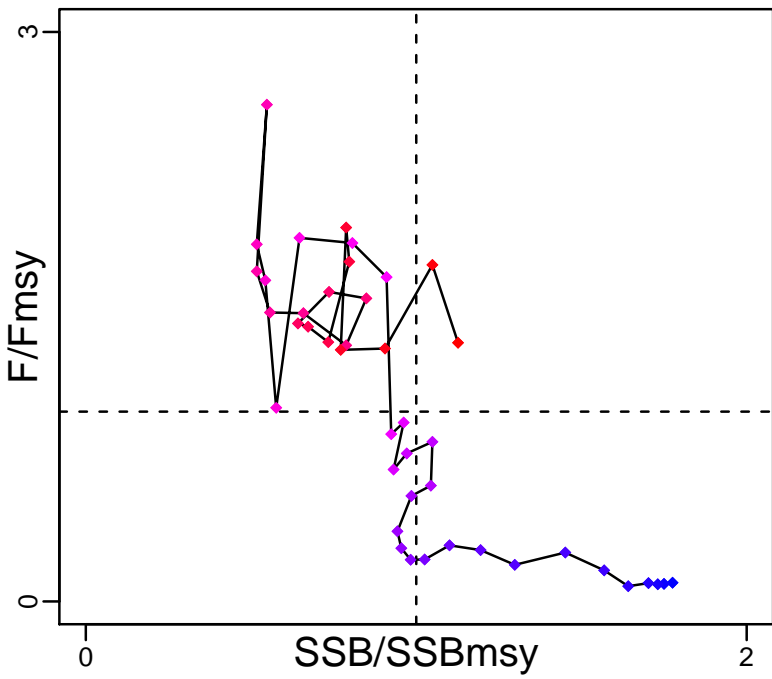
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mycteroperca microlepis |
| Current Assess ID | SEFSC-GAGSATLC-1962-2012-SISIMP2016 |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2005, 2012 |

| Reference Points | | | |
|------------------|---------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-calc-MT | 2005 | 6475 |
| SSBmsy | SSBmsy-MT | 2012 | 1832 |
| Fmsy | Fmsy-1/yr | 2005 | 0.295 |
| ERmsy | ERmsy-ratio | 2005 | 0.124 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2012 | 426 |
| M | M-1/yr | 2005 | 0.14 |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2012 | 1575 |
| Flim | Flim-1/yr | 2005 | 0.237 |
| ERlim | - | - | - |

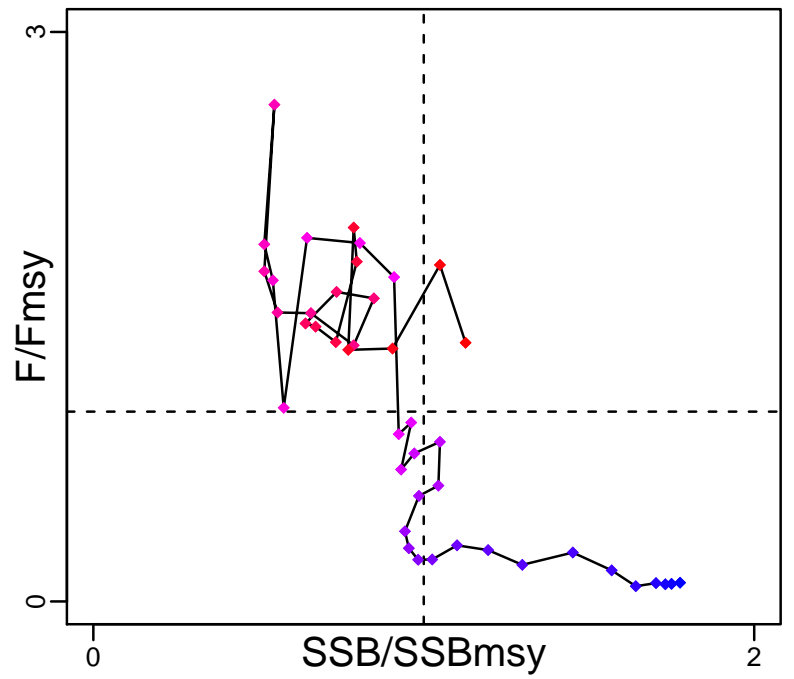
| Time Series | | | | | |
|-------------------|---------------------|-----------|------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2012 | 2620 | - | 1+ |
| SSB | SSB-MT | 2012 | 1780 | Females | 3+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2005 | 270,000 | - | - |
| F | F-1/yr | 2005 | 0.402 | - | - |
| ER | ER-calc-ratio | 2012 | 0.094 | - | - |
| TC | TC-MT | 2012 | 245 | | |
| TL | - | - | - | | |
| TB/TBmsy | TB-MT/TBmsy-calc-MT | 2005 | 0.646 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-MT | 2012 | 0.972 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2005 | 1.363 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Gag Southern Atlantic coast [GAGSATLC]

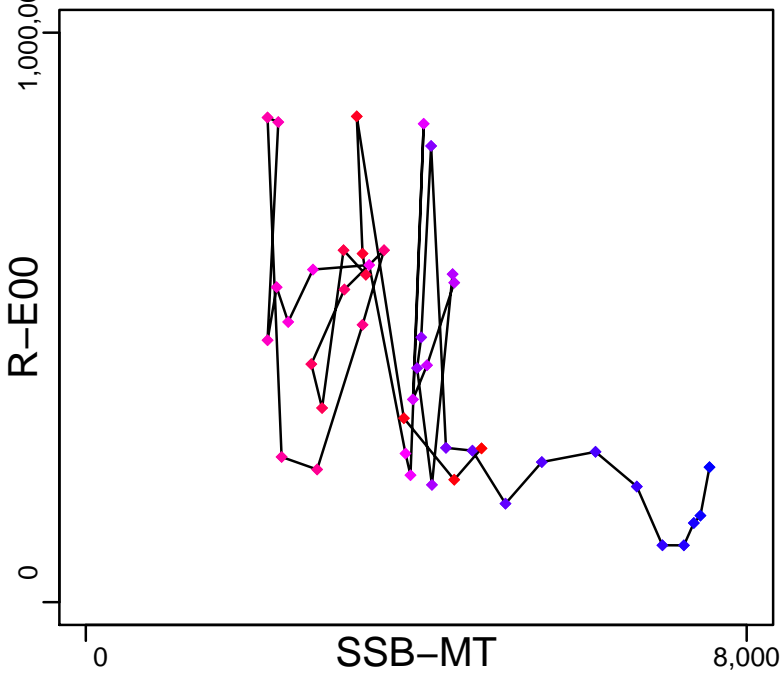
Kobe MSYpref (1962–2005–JENSEN)



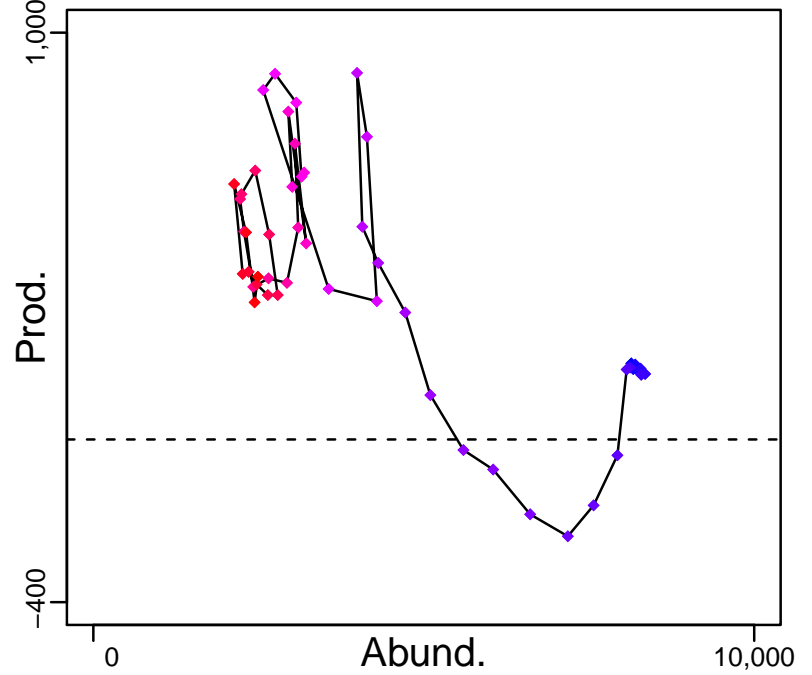
Kobe MGTpref (1962–2005–JENSEN)



Spawner Recruit (1962–2005–JENSEN)



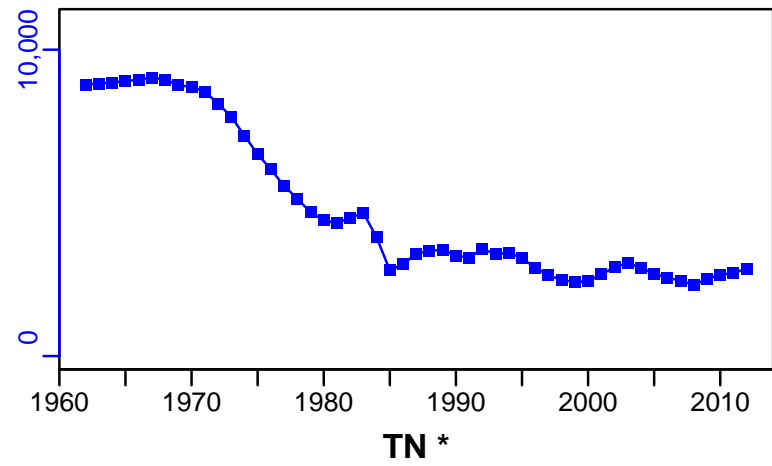
Production (1962–2012–SISIMP2016)



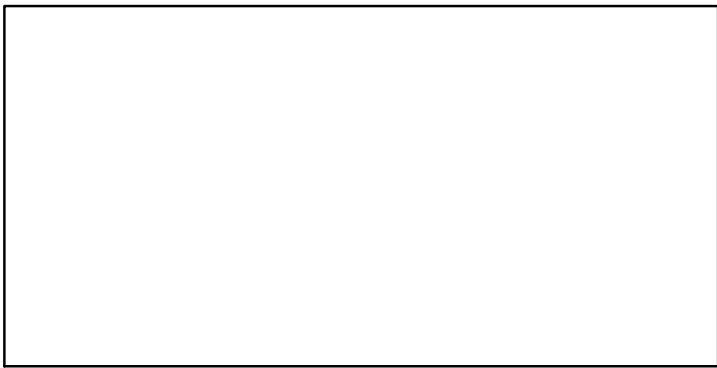
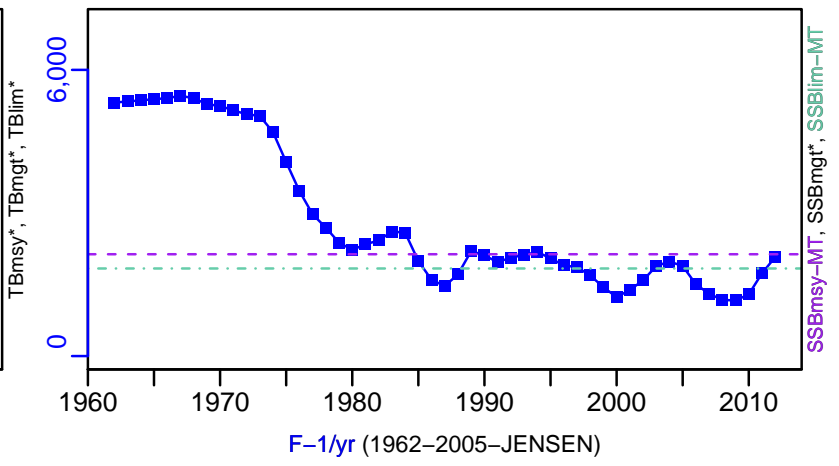
◆ Start Year ◆ End Year * No Data

Gag Southern Atlantic coast [GAGSATLC]

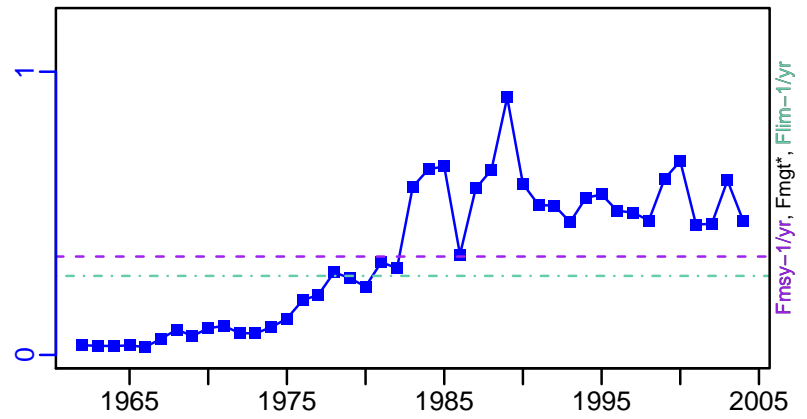
TB-MT (1962–2012–SISIMP2016)



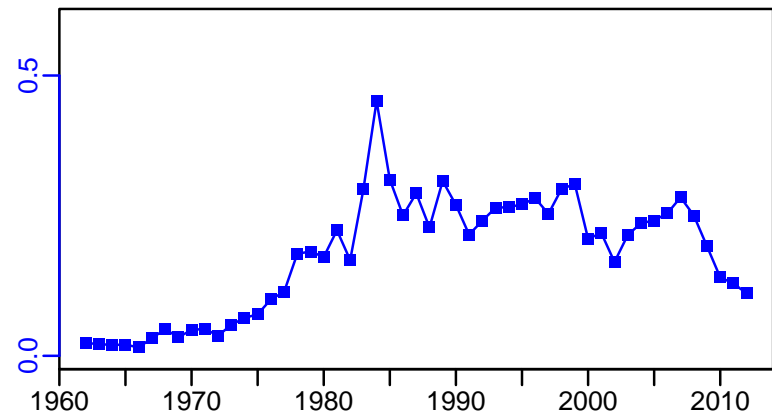
SSB-MT (1962–2012–SISIMP2016)



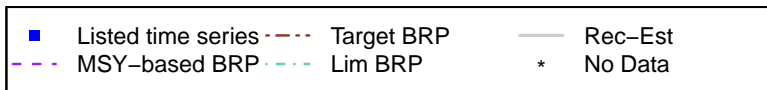
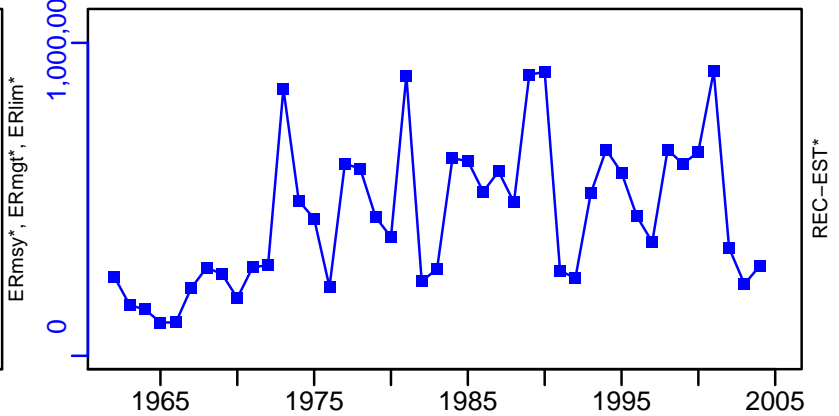
F-1/yr (1962–2005–JENSEN)



ER-calc-ratio (1962–2012–SISIMP2016)

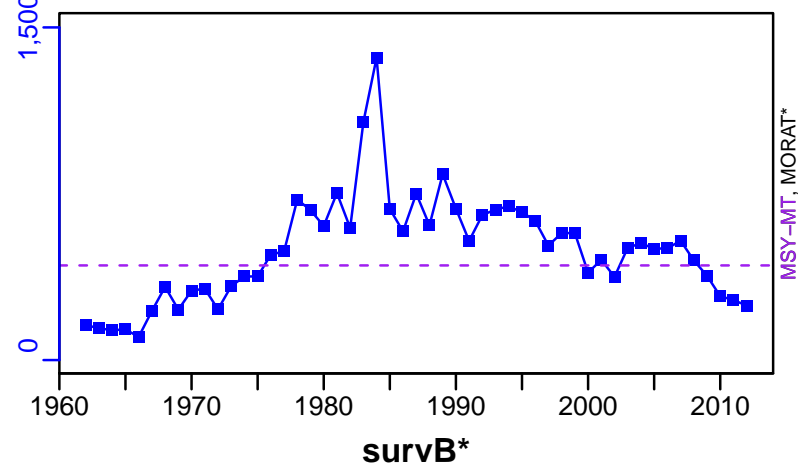


R-E00 (1962–2005–JENSEN)



Gag Southern Atlantic coast [GAGSATLC]

TC-MT, TL*, RecC* (1962–2012–SISIMP2016)



TAC*, Cpair*, Cadv*



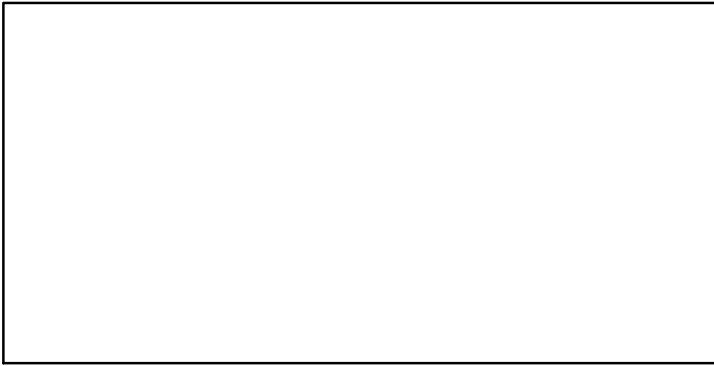
survB*



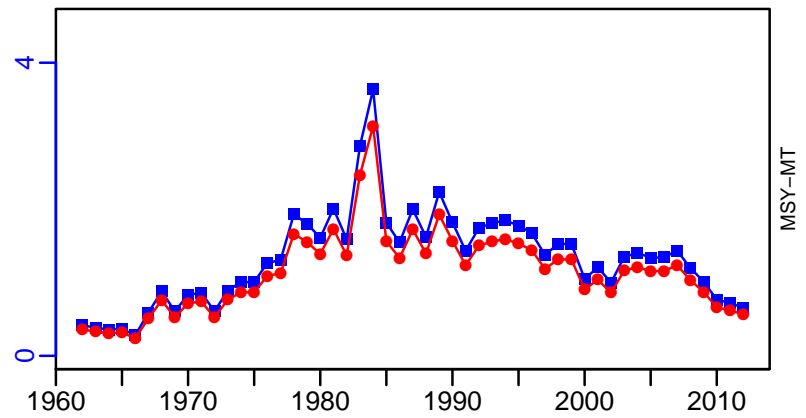
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1962–2012–SISIMP2016)



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

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

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

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

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

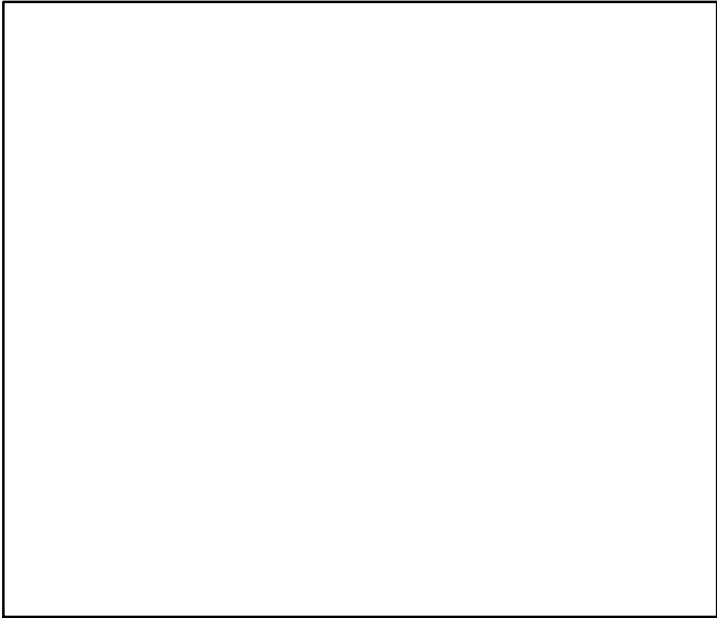
Kobe MSY*



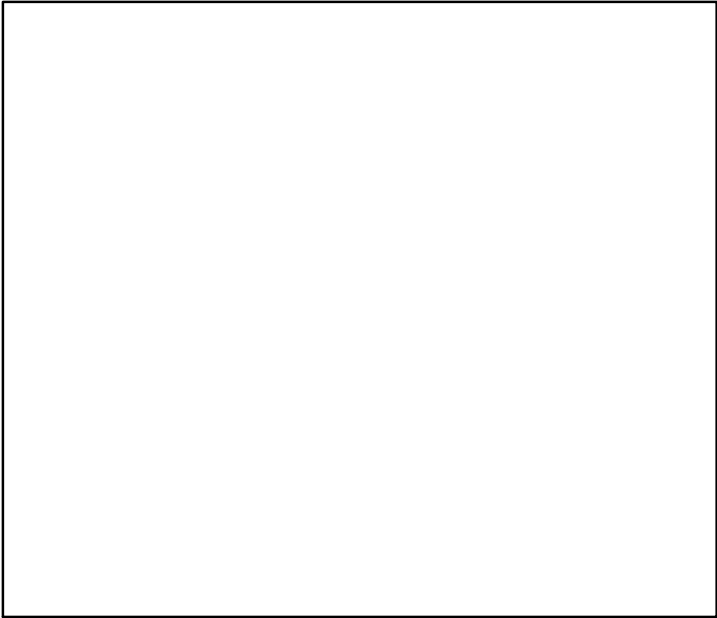
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



Recruits*



■ Listed time series

--- MSY-based BRP

--- Target BRP

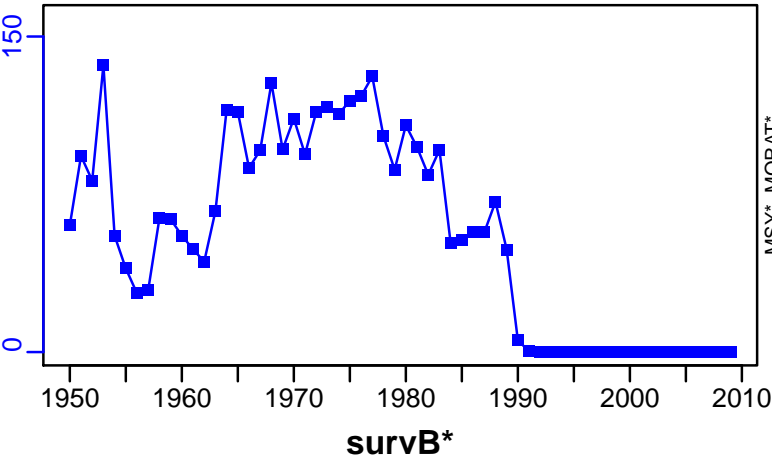
--- Lim BRP

— Rec-Est

* No Data

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

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Greater amberjack Gulf of Mexico [GRAMBERGM]

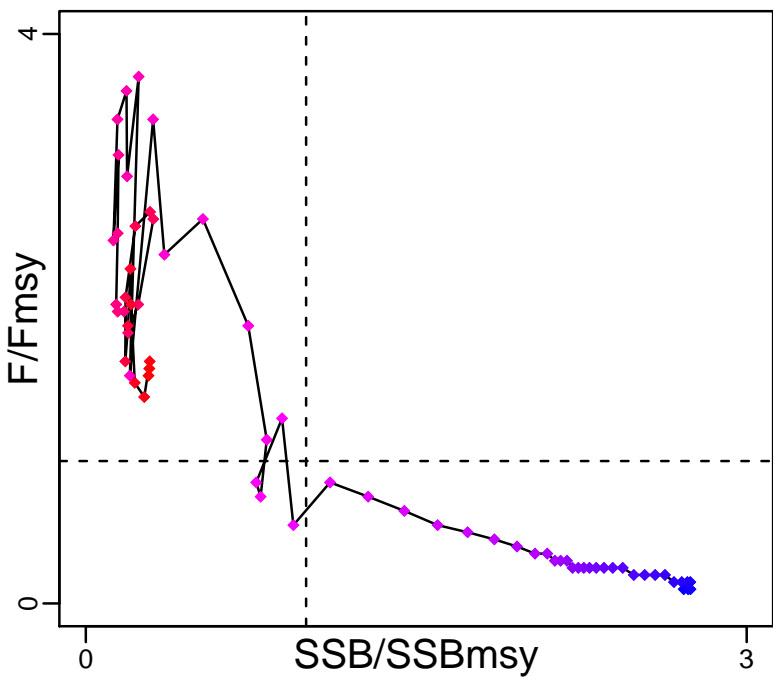
| Metadata | |
|-----------------------------|---|
| Scientific Name | Seriola dumerili |
| Current Assess ID | SEFSC-GRAMBERGM-1950-2015-SISIMP2021 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2012, 2015, 2004 |

| Reference Points | | | |
|------------------|---------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-calc-MT | 2012 | 7422 |
| SSBmsy | SSBmsy-MT | 2015 | 5686 |
| Fmsy | Fmsy-1/yr | 2015 | 0.2 |
| ERmsy | ERmsy-ratio | 2012 | 0.22 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.17 |
| ERmgt | ERmgt-ratio | 2012 | 0.17 |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2012 | 1633 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2015 | 4094 |
| Flim | Flim-1/yr | 2015 | 0.2 |
| ERlim | ERlim-ratio | 2012 | 0.22 |

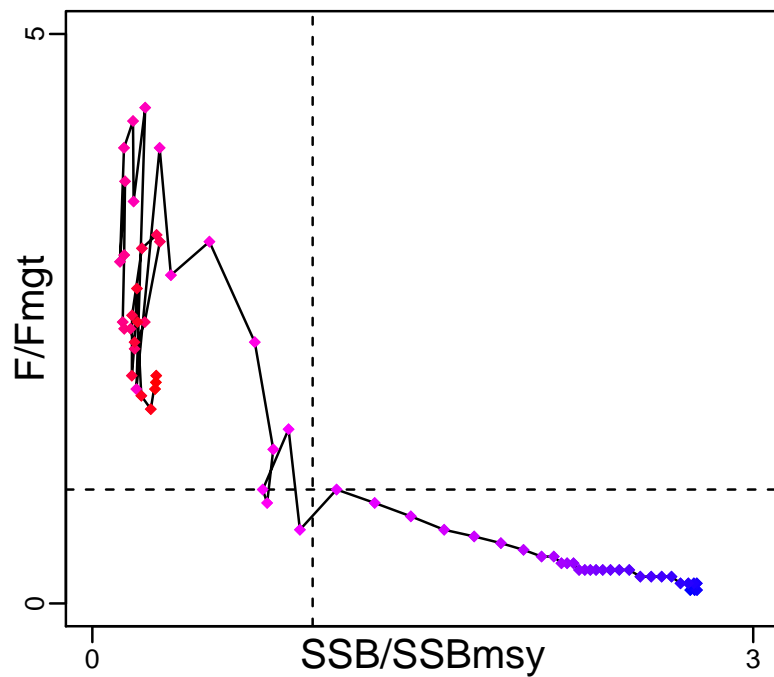
| Time Series | | | | | |
|-------------------|----------------------|-----------|-----------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2012 | 3860 | - | 1+ |
| SSB | SSB-MT | 2015 | 1640 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 3×10^6 | - | 0 |
| F | F-1/yr | 2015 | 0.33 | - | - |
| ER | ER-ratio | 2012 | 0.255 | - | - |
| TC | TC-MT | 2012 | 983 | | |
| TL | - | - | - | | |
| TB/TBmsy | TB-MT/TBmsy-calc-MT | 2012 | 0.52 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-MT | 2015 | 0.288 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2015 | 1.65 | | |
| ER/ERmsy | ER-ratio/ERmsy-ratio | 2012 | 1.159 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 1.941 | | |
| ER/ERmgt | - | - | - | | |

Greater amberjack Gulf of Mexico [GRAMBERGM]

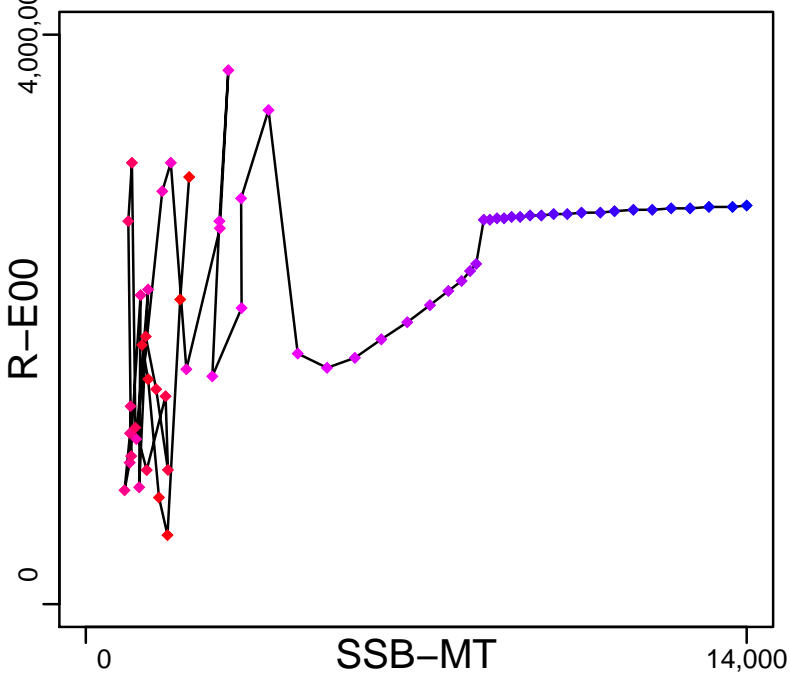
Kobe MSYpref (1950–2015–SISIMP2021)



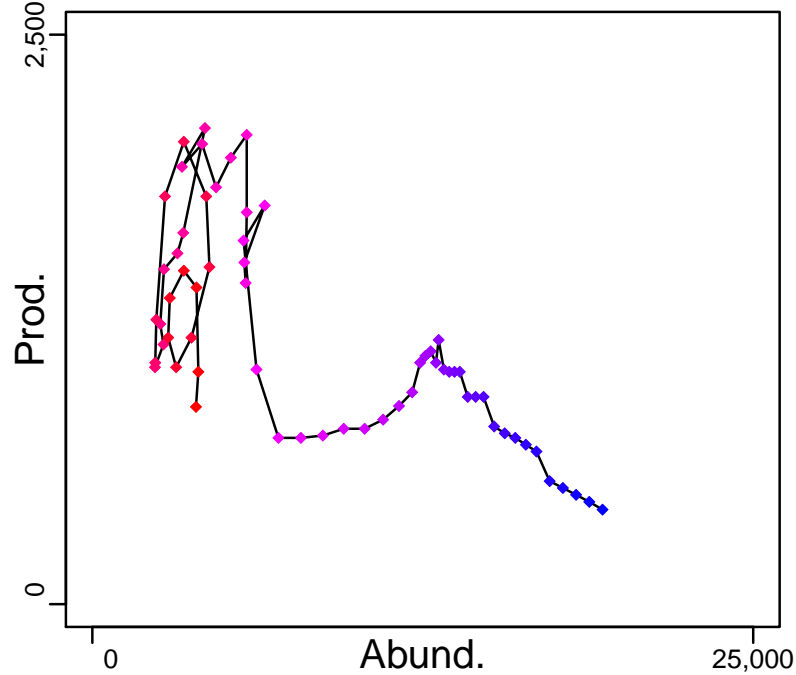
Kobe MGTpref (1950–2015–SISIMP2021)



Spawner Recruit (1950–2012–SISIMP2016)



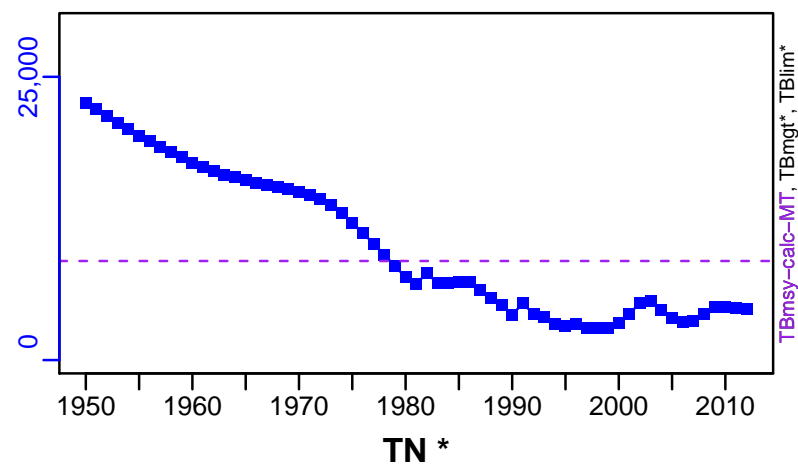
Production (1950–2012–SISIMP2016)



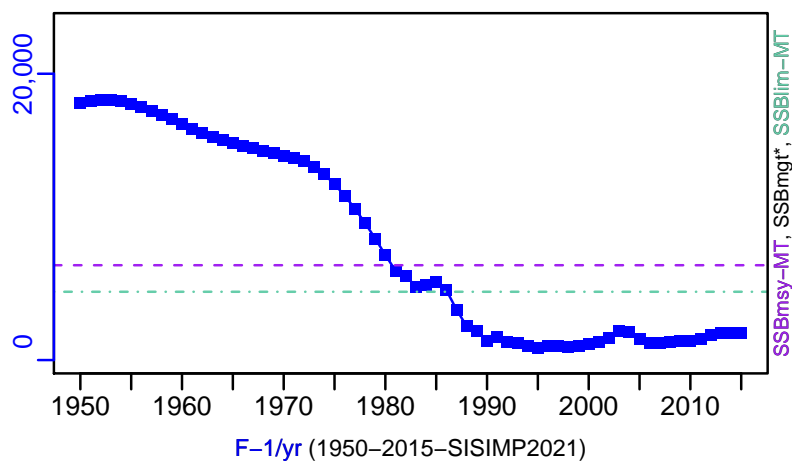
◆ Start Year ◆ End Year * No Data

Greater amberjack Gulf of Mexico [GRAMBERGM]

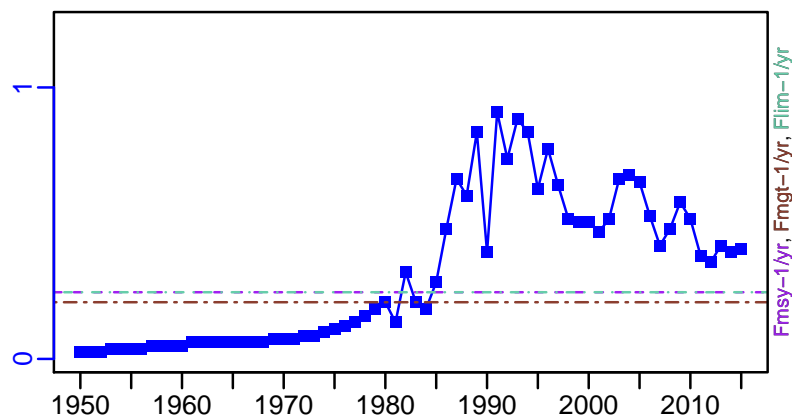
TB-MT (1950–2012–SISIMP2016)



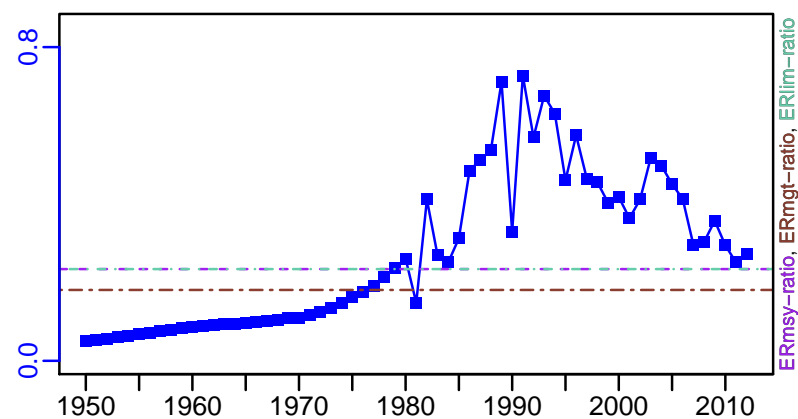
SSB-MT (1950–2015–SISIMP2021)



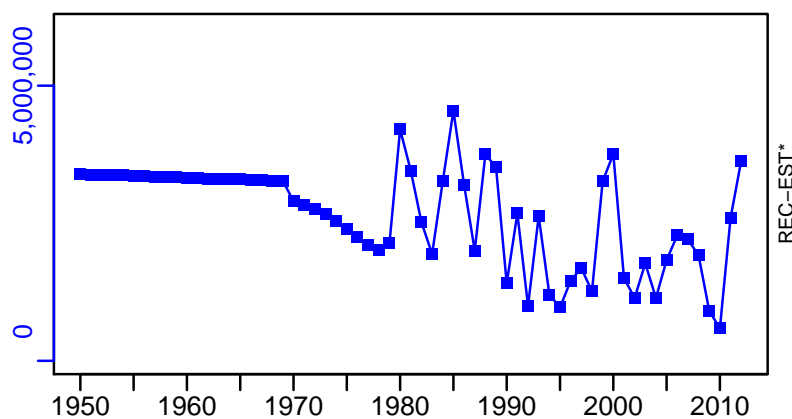
F-1/yr (1950–2015–SISIMP2021)



ER-ratio (1950–2012–SISIMP2016)

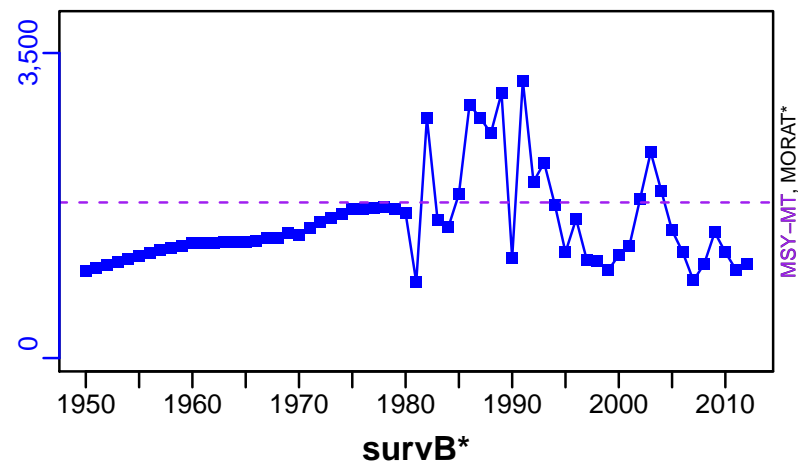


R-E00 (1950–2012–SISIMP2016)



Greater amberjack Gulf of Mexico [GRAMBERGM]

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



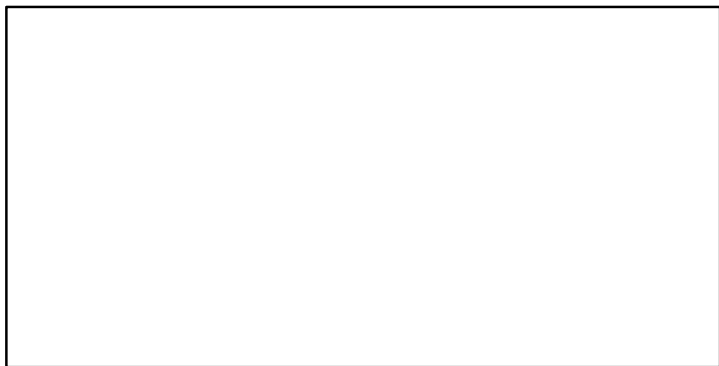
TAC*, Cpair*, Cadv*



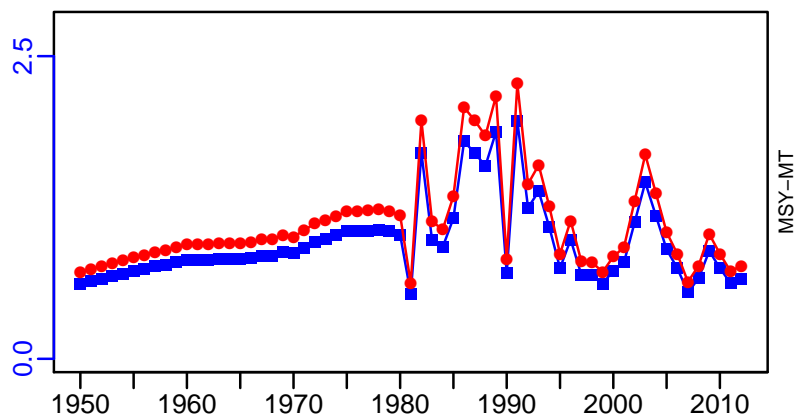
CPUE*



EFFORT*



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



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

Greater amberjack Southern Atlantic coast [GRAMBERSATLC]

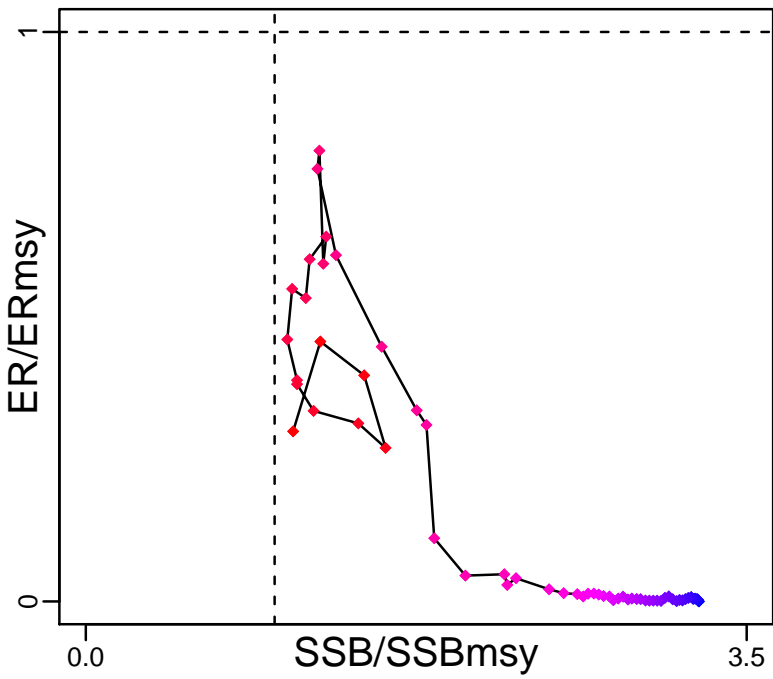
| Metadata | |
|-----------------------------|---|
| Scientific Name | Seriola dumerili |
| Current Assess ID | SEFSC-GRAMBERSATLC-1946-2006-JENSEN |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2006 |

| Reference Points | | | |
|------------------|-------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2006 | 5491 |
| SSBmsy | SSBmsy-MT | 2006 | 1940 |
| Fmsy | Fmsy-1/yr | 2006 | 0.433 |
| ERmsy | ERmsy-ratio | 2006 | 0.166 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2006 | 909 |
| M | M-1/yr | 2006 | 0.25 |
| TBlim | TBlim-MT | 2006 | 1455 |
| SSBlim | - | - | - |
| Flim | Flim-1/yr | 2006 | 0.433 |
| ERlim | - | - | - |

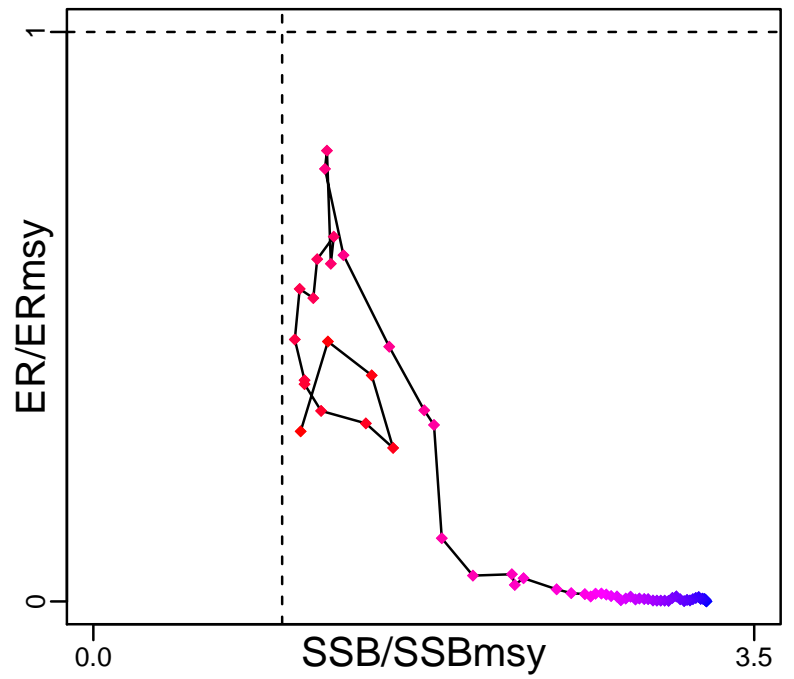
| Time Series | | | | | |
|-------------------|---------------------------|-----------|------------|-----|------|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2006 | 5620 | - | - |
| SSB | SSB-MT | 2006 | 2130 | - | 1.3+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2006 | 498,000 | - | - |
| F | F-1/yr | 2006 | 0.23 | - | - |
| ER | ER-calc-ratio | 2006 | 0.049 | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2006 | 278 | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2006 | 1.023 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-MT | 2006 | 1.098 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2006 | 0.531 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-ratio | 2006 | 0.299 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Greater amberjack Southern Atlantic coast [GRAMBERSATLC]

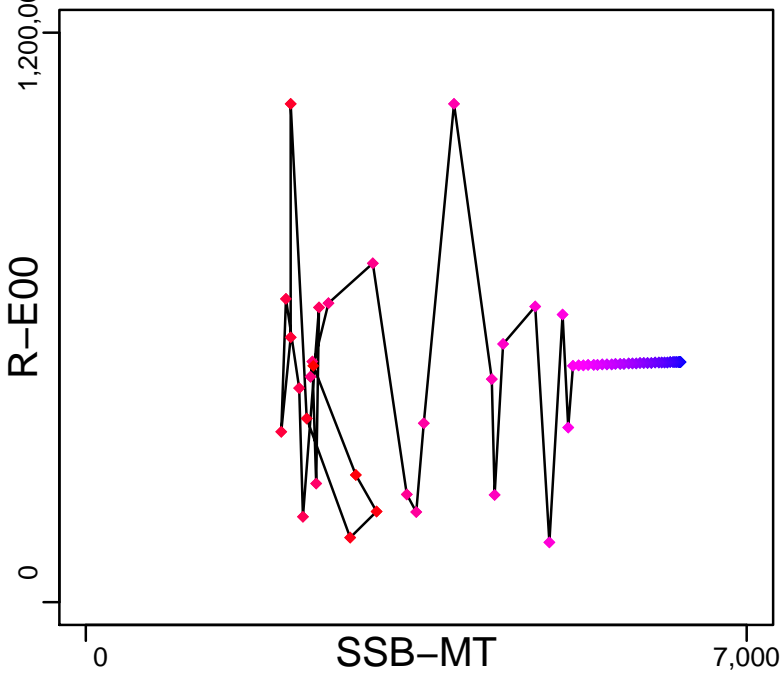
Kobe MSYpref (1946–2006–JENSEN)



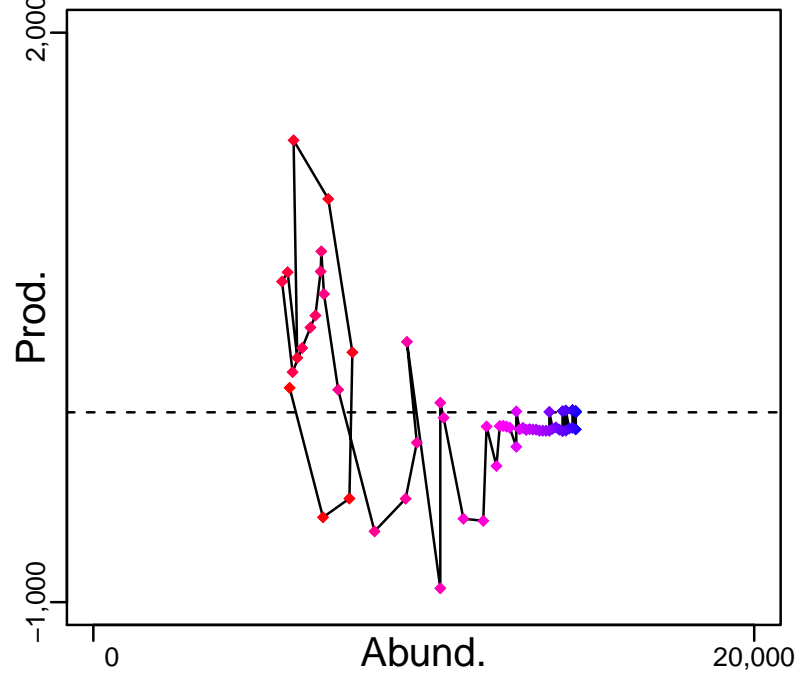
Kobe MGTpref (1946–2006–JENSEN)



Spawner Recruit (1946–2006–JENSEN)



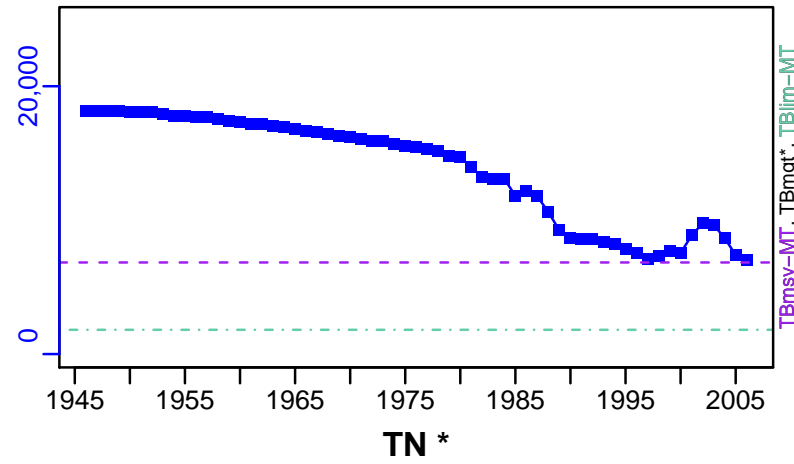
Production (1946–2006–JENSEN)



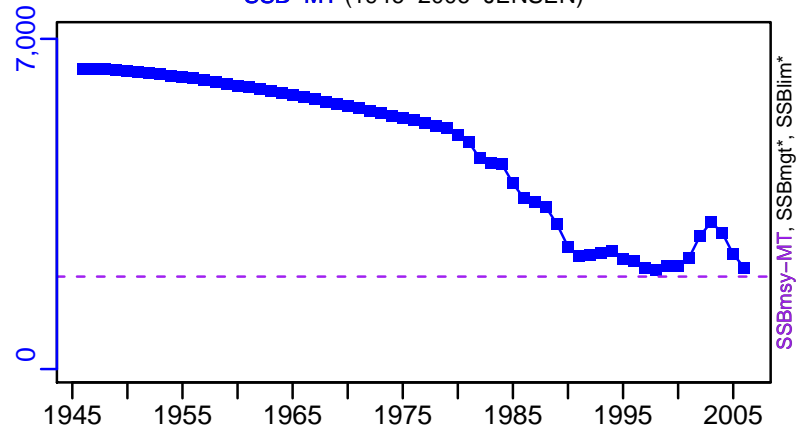
◆ Start Year ◆ End Year * No Data

Greater amberjack Southern Atlantic coast [GRAMBERSATLC]

TB-MT (1946-2006-JENSEN)



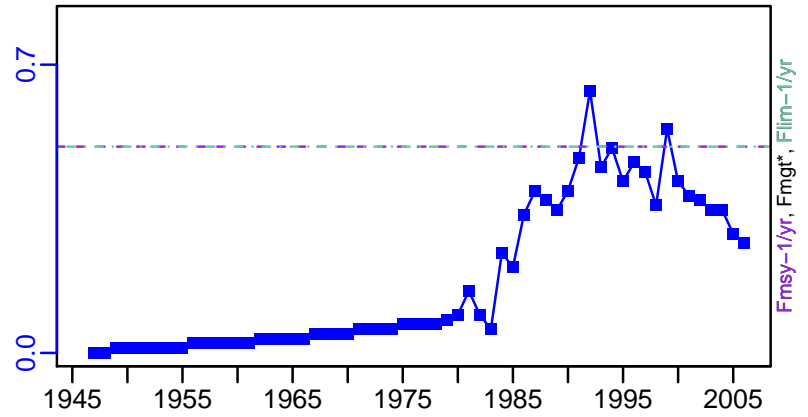
SSB-MT (1946-2006-JENSEN)



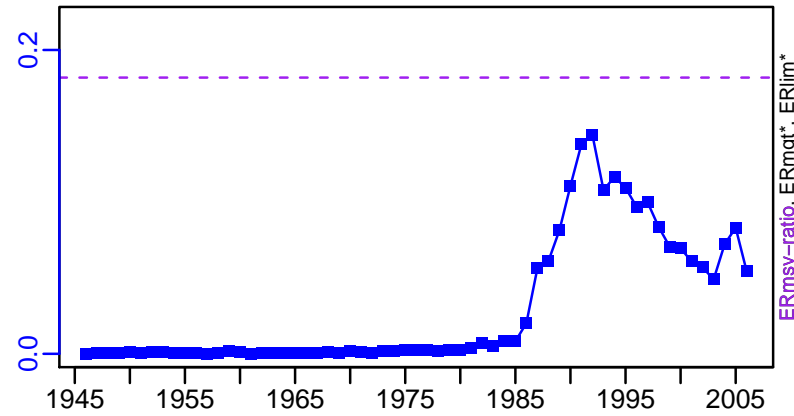
TN *



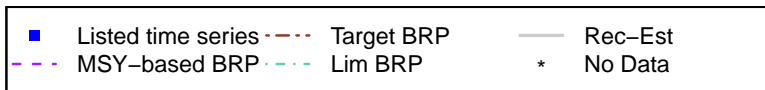
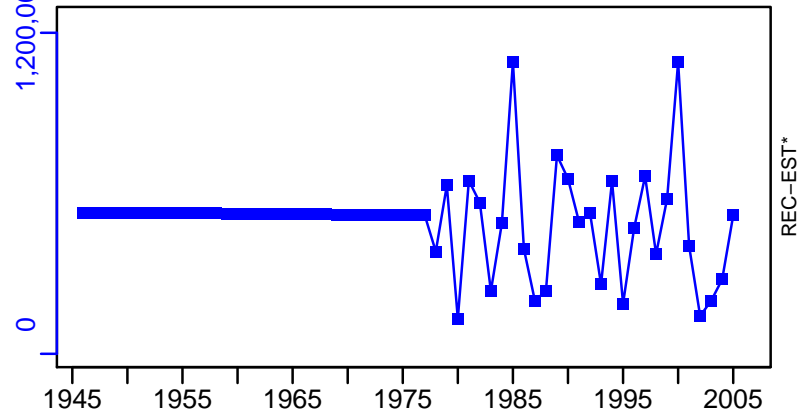
F-1/yr (1946-2006-JENSEN)



ER-calc-ratio (1946-2006-JENSEN)



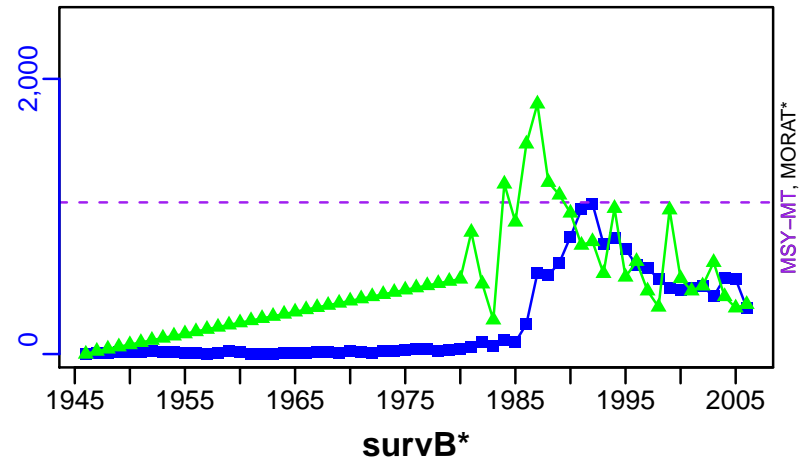
R-E00 (1946-2006-JENSEN)



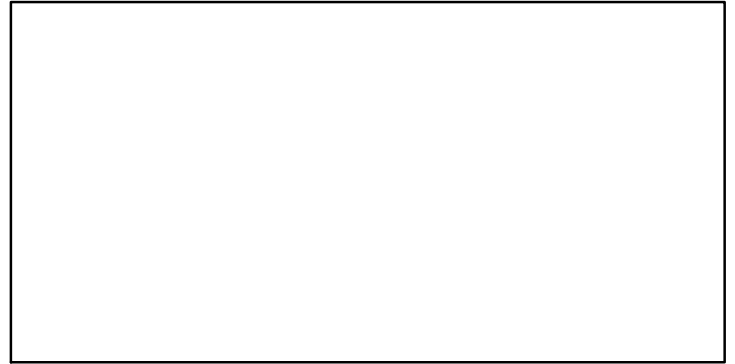
Greater amberjack Southern Atlantic coast [GRAMBERSATLC]

TL-MT, TC*, RecC-MT (1946-2006-JENSEN)

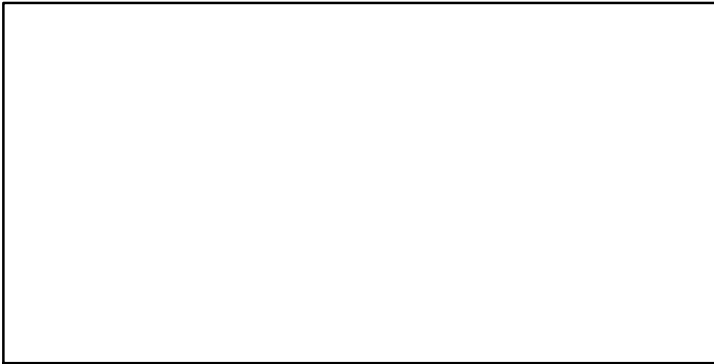
TAC*, Cpair*, Cadv*



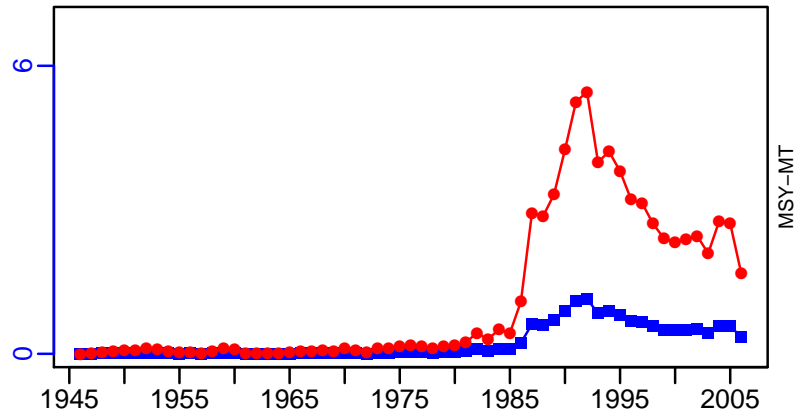
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1946-2006-JENSEN)



Gray snapper Gulf of Mexico [GRSNAPGM]

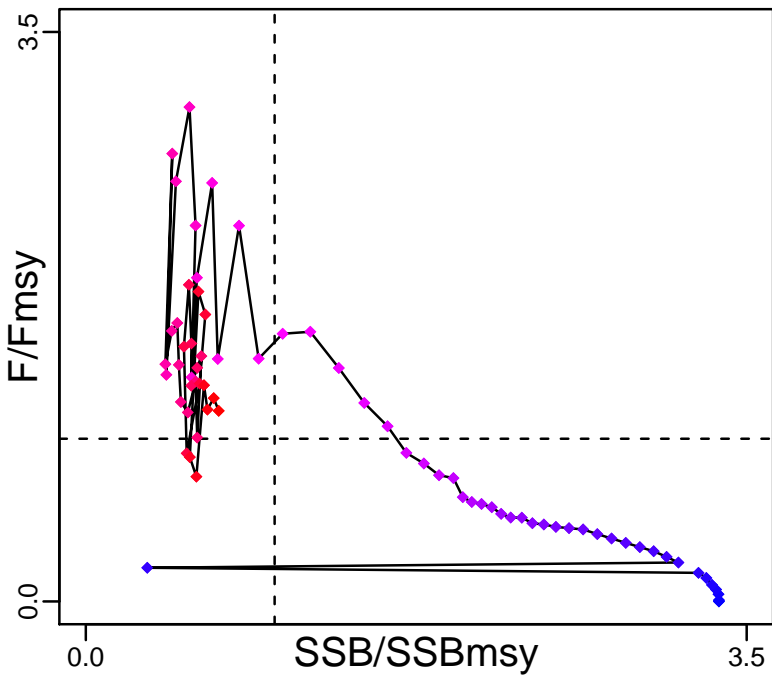
| Metadata | |
|-----------------------------|---|
| Scientific Name | Lutjanus griseus |
| Current Assess ID | SEFSC-GRSNAPGM-1945-2015-SISIMP2021 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

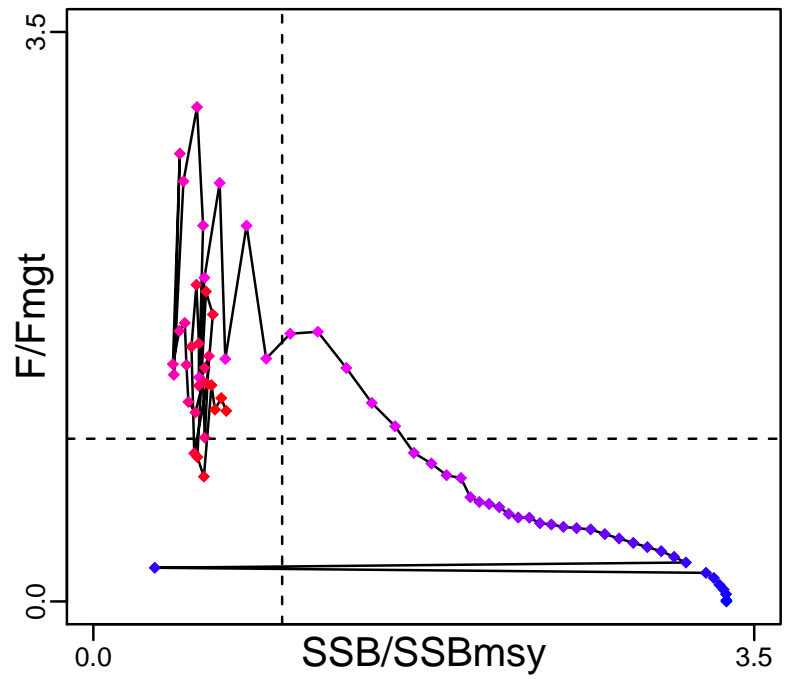
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2015 | 4660 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 10,223,200 | - | 0 |
| F | F-1/yr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

Gray snapper Gulf of Mexico [GRSNAPGM]

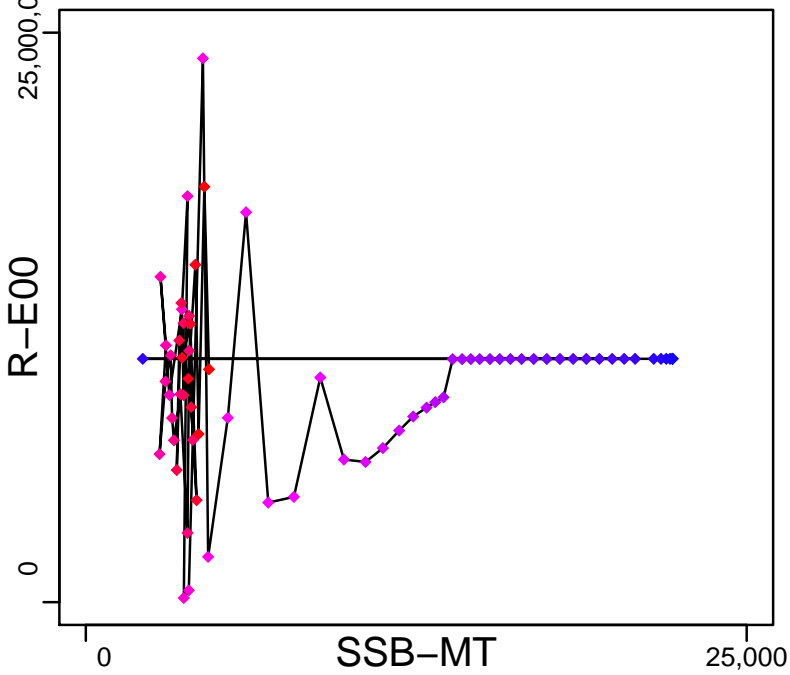
Kobe MSYpref (1945–2015–SISIMP2021)



Kobe MGTpref (1945–2015–SISIMP2021)



Spawner Recruit (1945–2015–SISIMP2021)



Production*



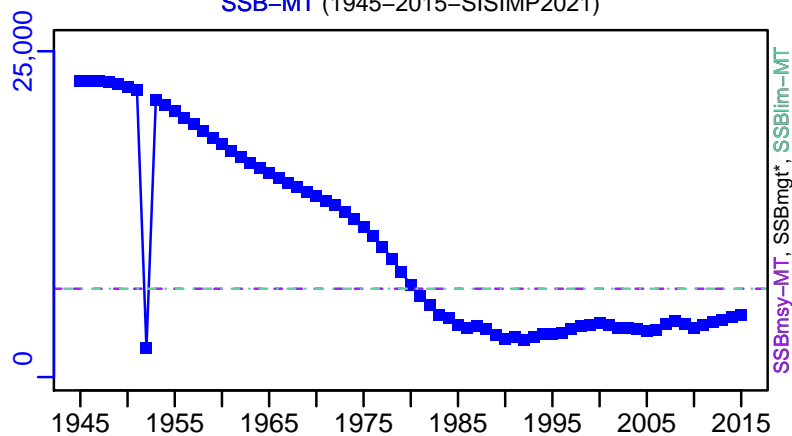
◆ Start Year ◆ End Year * No Data

Gray snapper Gulf of Mexico [GRSNAPGM]

TB*



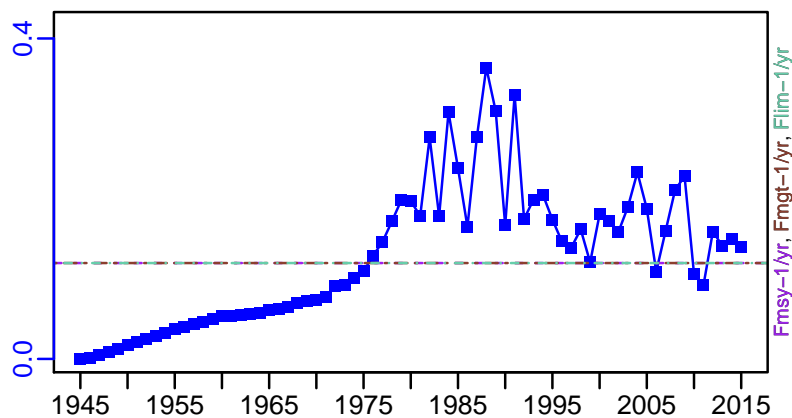
SSB-MT (1945–2015–SISIMP2021)



TN *



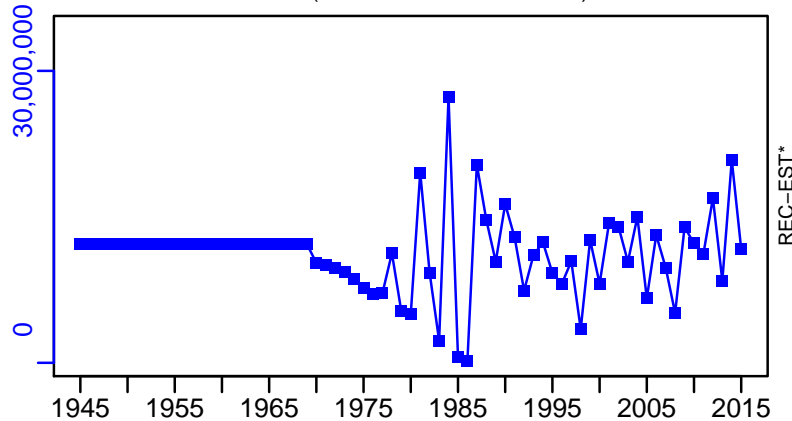
F-1/yr (1945–2015–SISIMP2021)



ER*

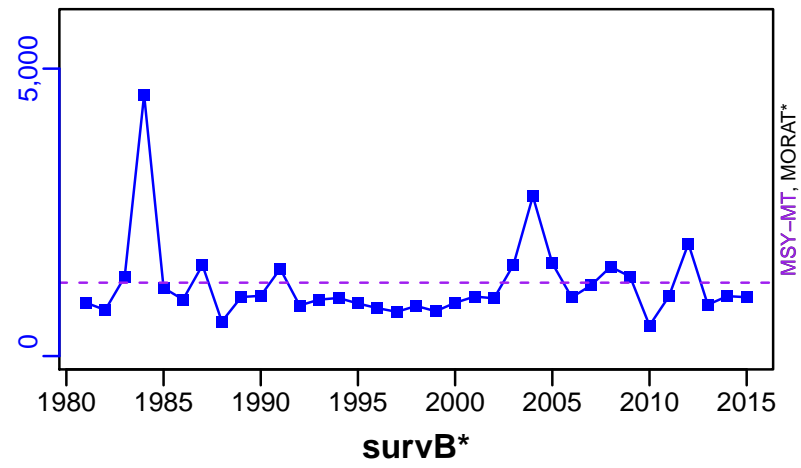


R-E00 (1945–2015–SISIMP2021)



Gray snapper Gulf of Mexico [GRSNAPGM]

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



TAC*, Cpair*, Cadv*



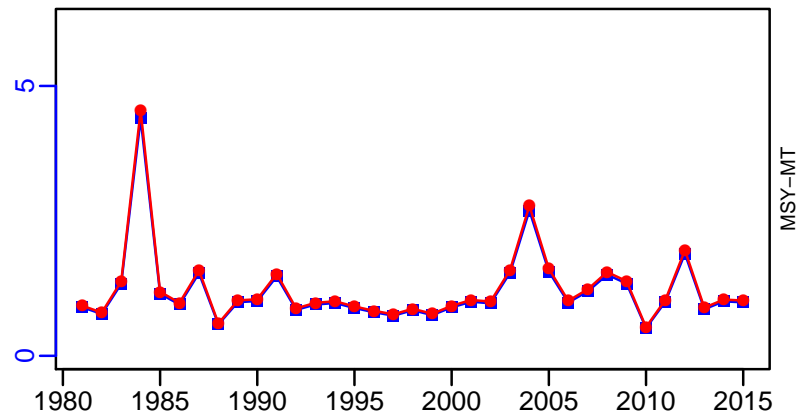
CPUE*



EFFORT*



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



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

Gray triggerfish Gulf of Mexico [GTRIGGM]

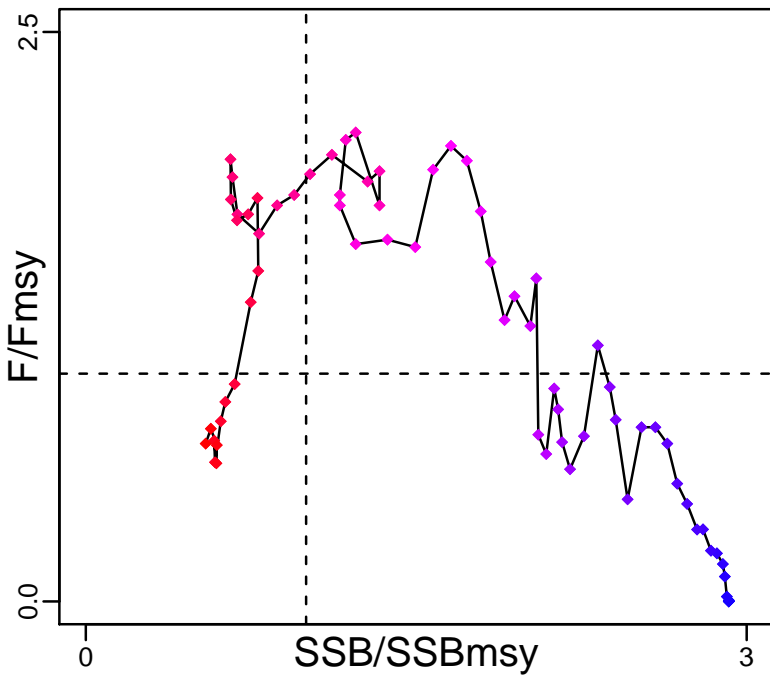
| Metadata | |
|-----------------------------|---|
| Scientific Name | Balistes capricus |
| Current Assess ID | SEFSC-GTRIGGM-1945-2013-SISIMP2016 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

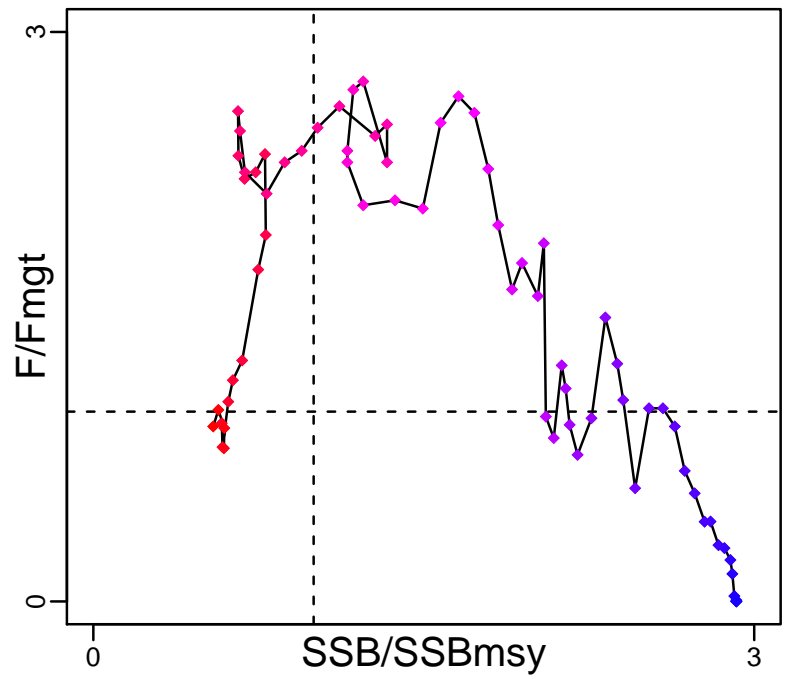
| Time Series | | | | | |
|-------------------|----------------------------|-----------|--------------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2013 | 5780 | - | 1+ |
| SSB | SSB-E00eggs | 2013 | 6.04×10^9 | Females | - |
| TN | TN-E00 | 2010 | 2,050,000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

Gray triggerfish Gulf of Mexico [GTRIGGM]

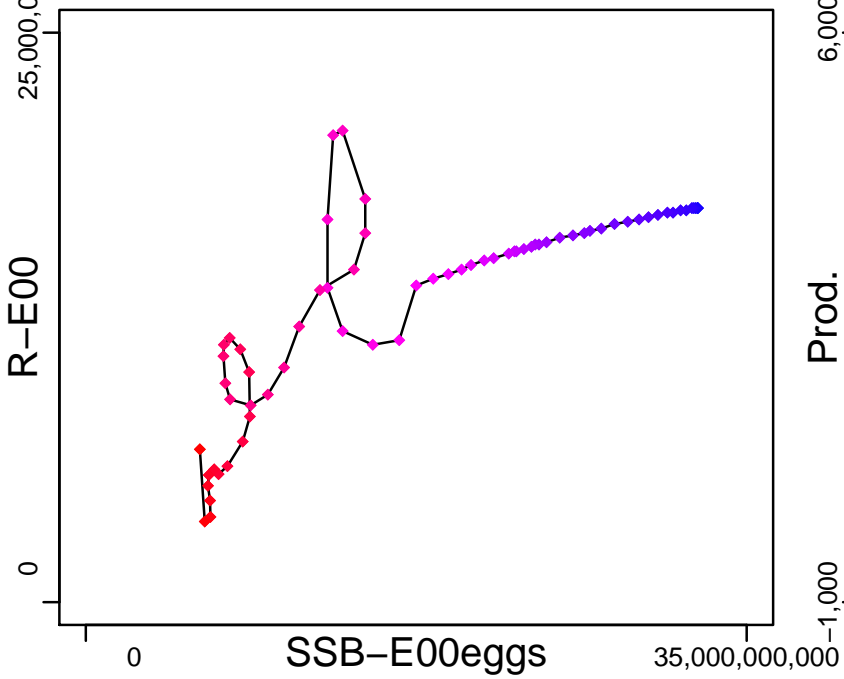
Kobe MSYpref (1945–2013–SISIMP2016)



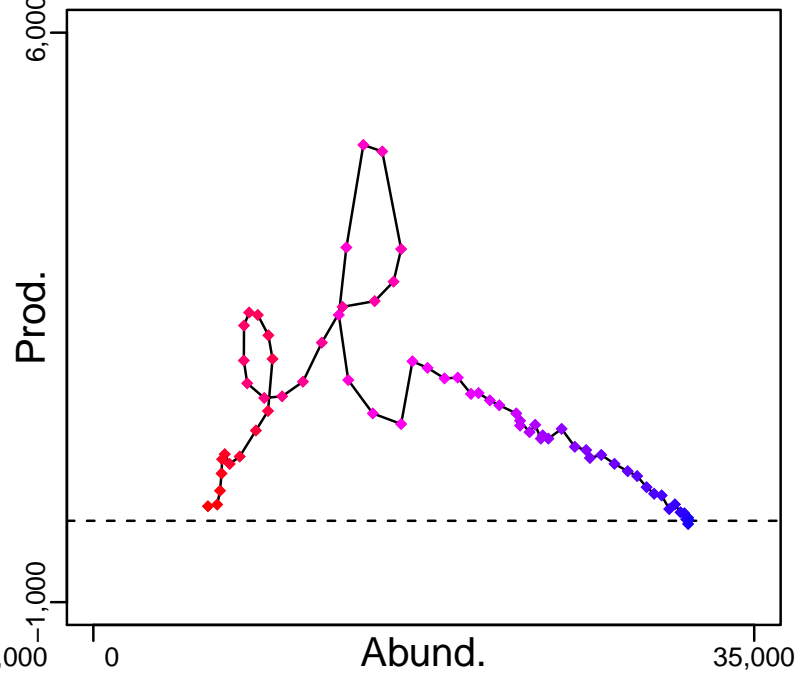
Kobe MGTpref (1945–2013–SISIMP2016)



Spawner Recruit (1945–2013–SISIMP2016)

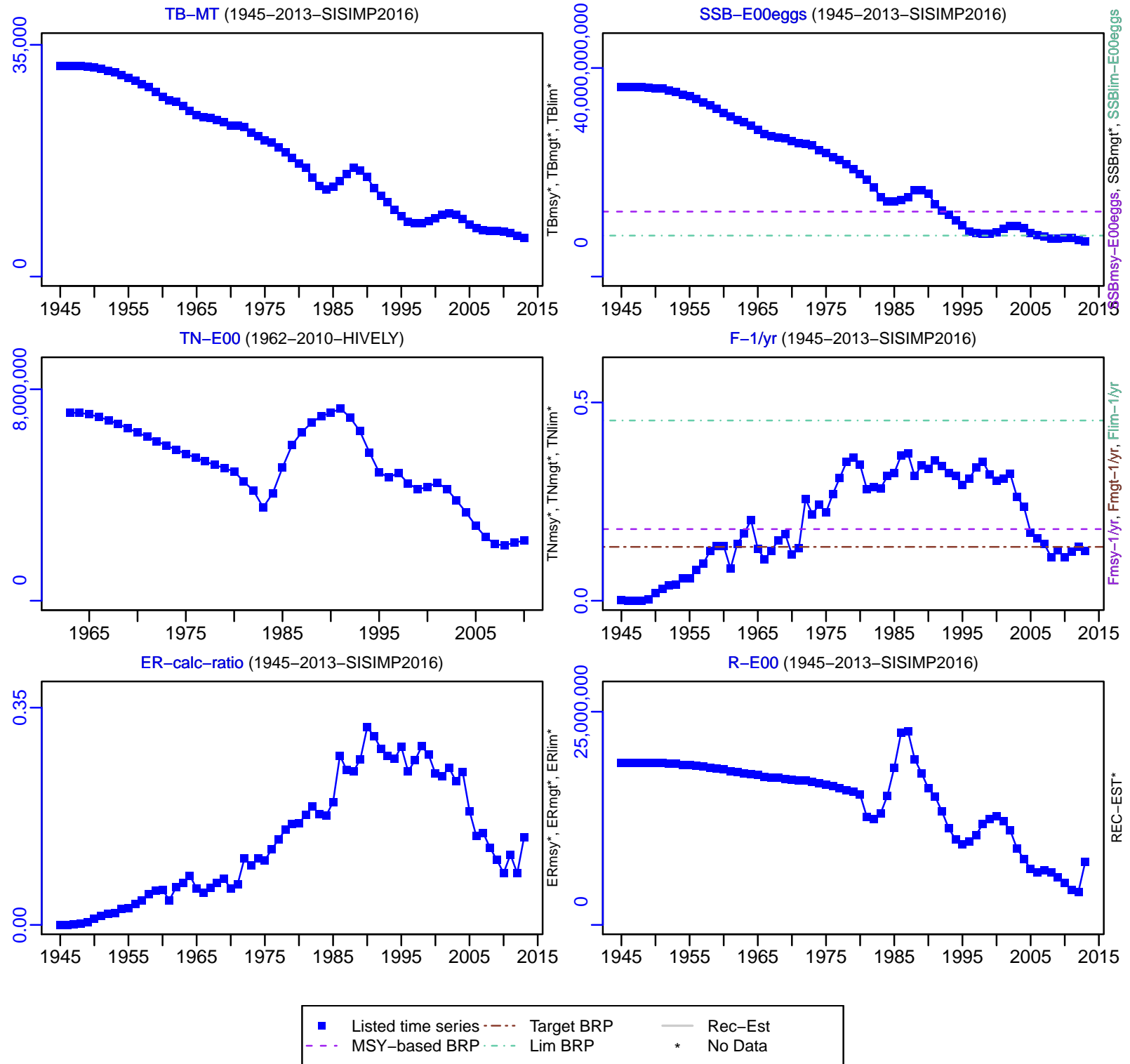


Production (1945–2013–SISIMP2016)



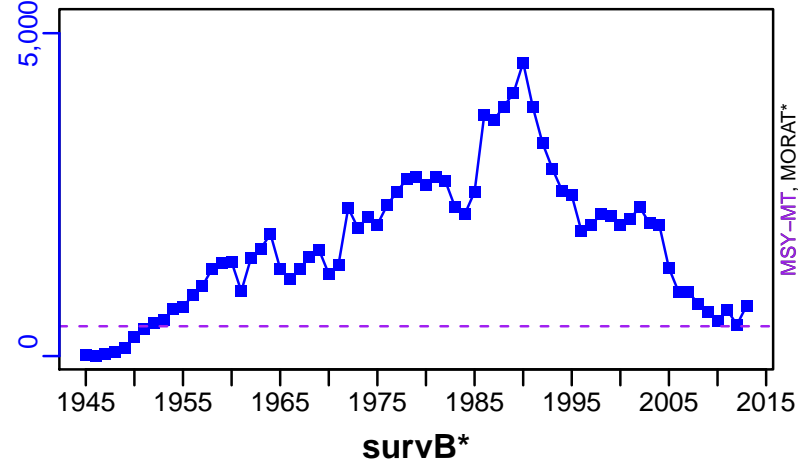
◆ Start Year ◆ End Year * No Data

Gray triggerfish Gulf of Mexico [GTRIGGM]



Gray triggerfish Gulf of Mexico [GTRIGGM]

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



TAC*, Cpair*, Cadv*



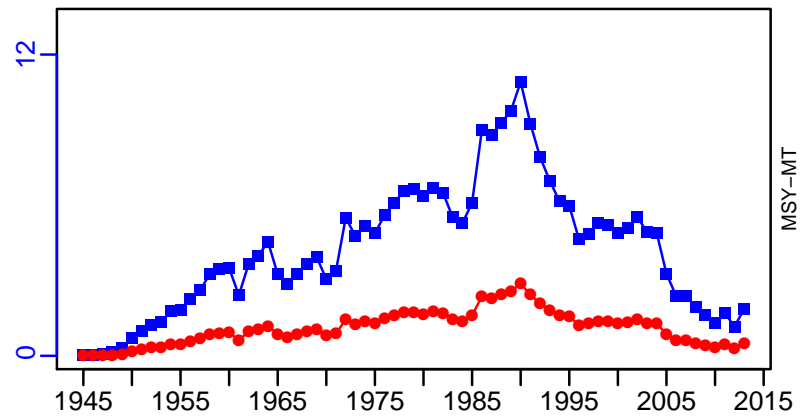
CPUE*



EFFORT*



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



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

King mackerel Gulf of Mexico [KMACKGM]

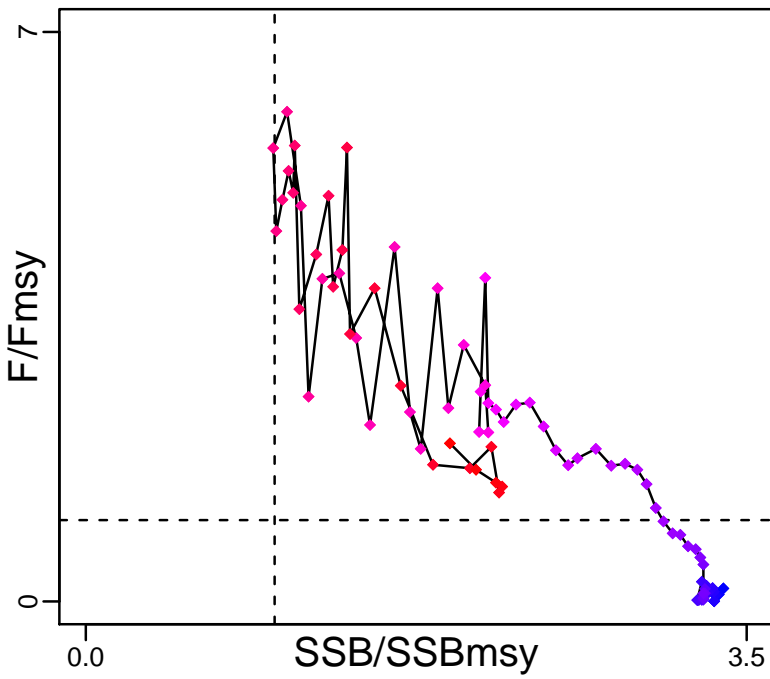
| Metadata | |
|-----------------------------|---|
| Scientific Name | Scomberomorus cavalla |
| Current Assess ID | SEFSC-KMACKGM-1929-2012-HIVELY |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2012 |

| Reference Points | | | |
|------------------|-------------------|-----------|---------------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-pr-E00eggs | 2012 | 1,229,070,000 |
| Fmsy | Fmsy-pr-1/yr | 2012 | 0.164 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | SSBmgt-E00eggs | 2012 | 1,229,070,000 |
| Fmgt | Fmgt-1/yr | 2012 | 0.123 |
| ERMgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | M-1/yr | 2012 | 0.16 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

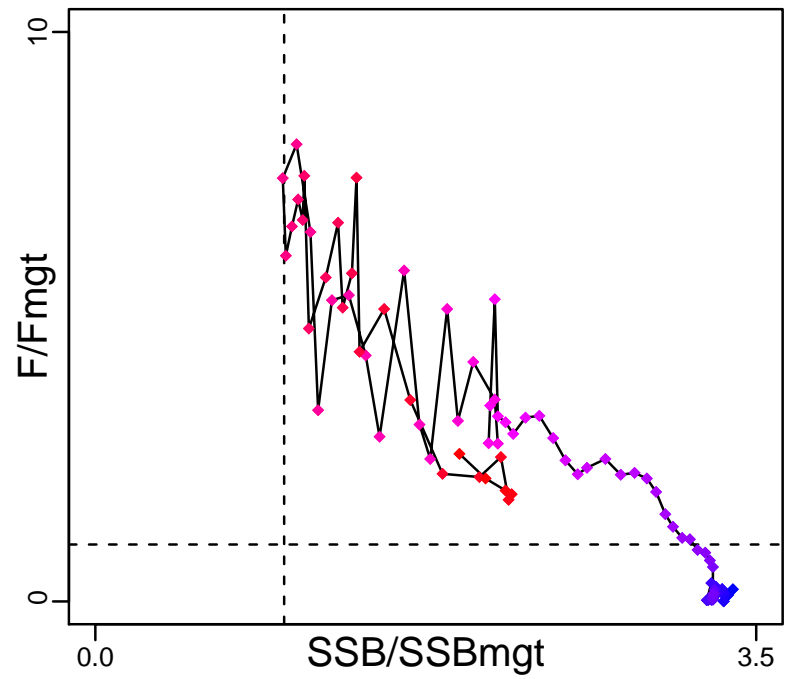
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-E00eggs | 2012 | 2.37×10^9 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 3,940,000 | - | 0 |
| F | F-1/yr | 2012 | 0.318 | - | - |
| ER | - | - | - | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2012 | 863 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-E00eggs/SSBmsy-pr-E00eggs | 2012 | 1.928 | | |
| F/Fmsy | F-1/yr/Fmsy-pr-1/yr | 2012 | 1.943 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | SSB-E00eggs/SSBmgt-E00eggs | 2012 | 1.928 | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2012 | 2.592 | | |
| ER/ERMgt | - | - | - | | |

King mackerel Gulf of Mexico [KMACKGM]

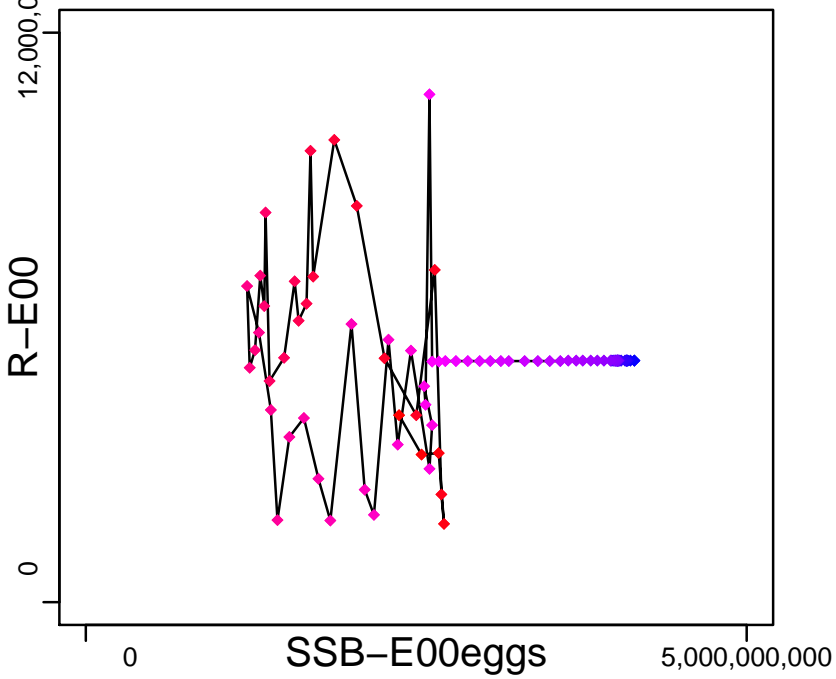
Kobe MSYpref (1929–2012–HIVELY)



Kobe MGTpref (1929–2012–HIVELY)



Spawner Recruit (1929–2012–HIVELY)



Production*



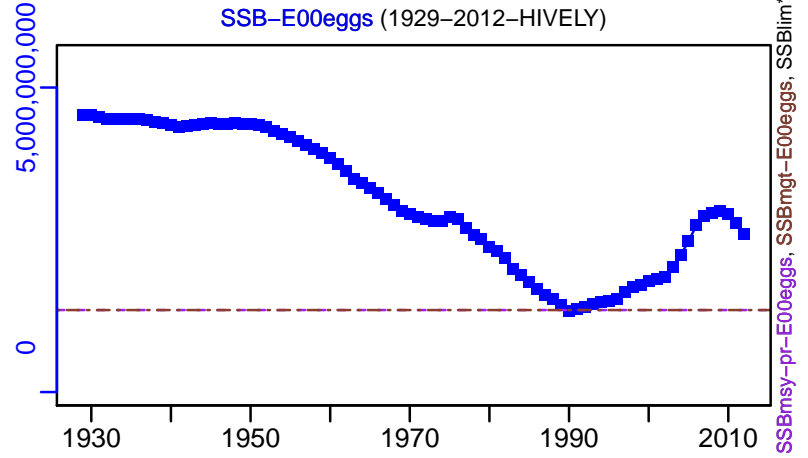
◆ Start Year ◆ End Year * No Data

King mackerel Gulf of Mexico [KMACKGM]

TB*



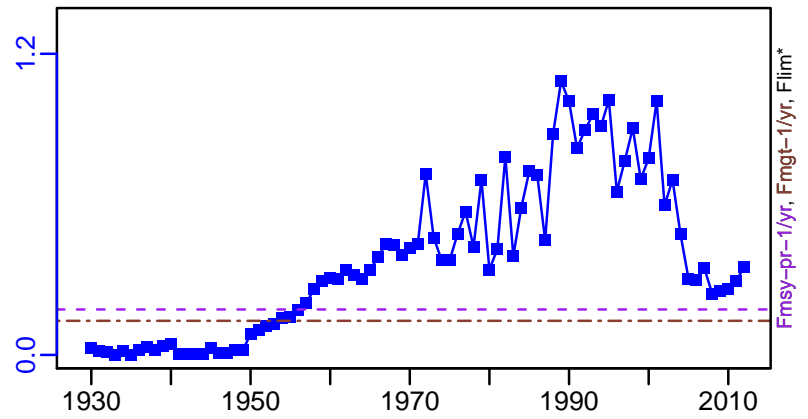
SSB-E00eggs (1929-2012-HIVELY)



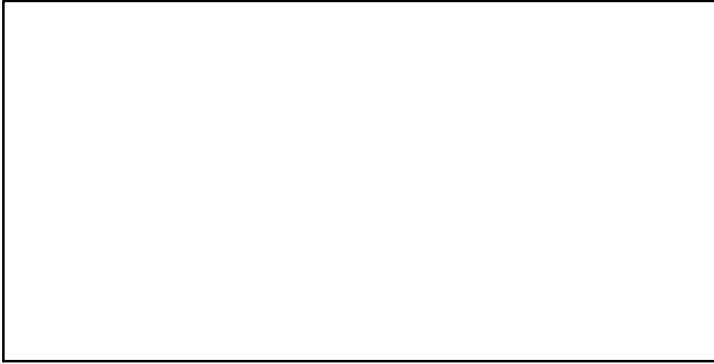
TN *



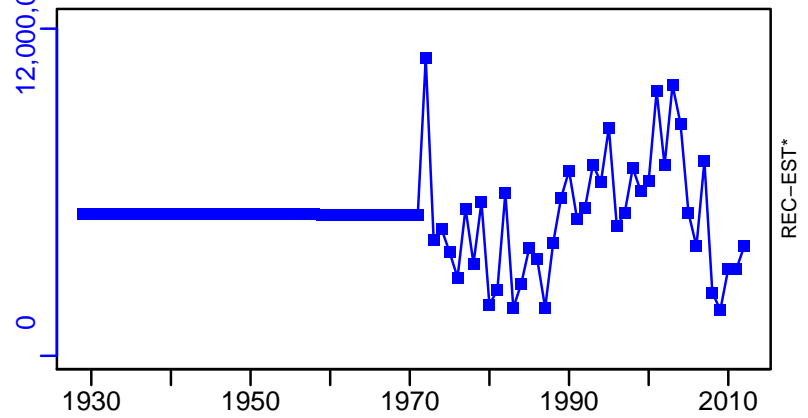
F-1/yr (1929-2012-HIVELY)



ER*



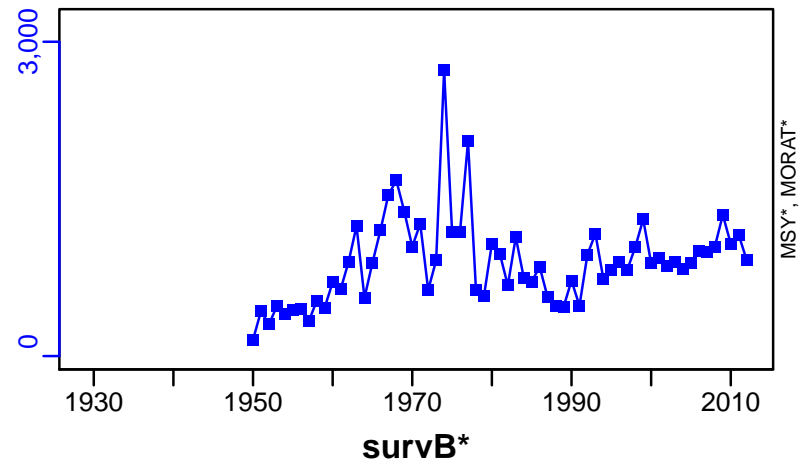
R-E00 (1929-2012-HIVELY)



King mackerel Gulf of Mexico [KMACKGM]

TL-MT, TC*, RecC* (1929-2012-HIVELY)

TAC*, Cpair*, Cadv*



King mackerel Southern Atlantic coast [KMACKSATLC]

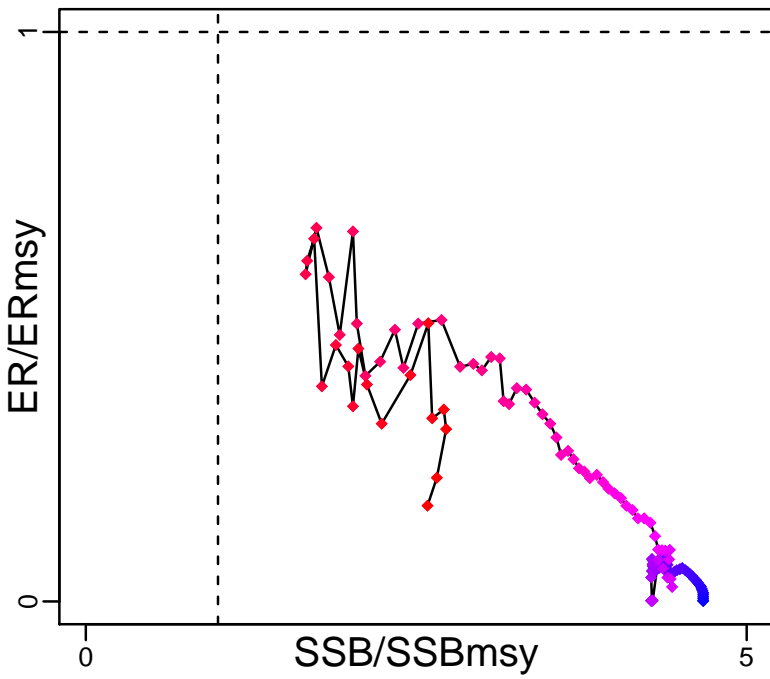
| Metadata | |
|-----------------------------|---|
| Scientific Name | Scomberomorus cavalla |
| Current Assess ID | SEFSC-KMACKSATLC-1901-2012-HIVELY |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries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

| Reference Points | | | |
|------------------|-------------------|-----------|---------------------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-pr-E00eggs | 2012 | 1.702×10^9 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-pr-ratio | 2012 | 0.157 |
| TBmgt | - | - | - |
| SSBmgt | SSBmgt-E00eggs | 2012 | 1.702×10^9 |
| Fmgt | - | - | - |
| ERmgt | ERmgt-ratio | 2012 | 0.118 |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

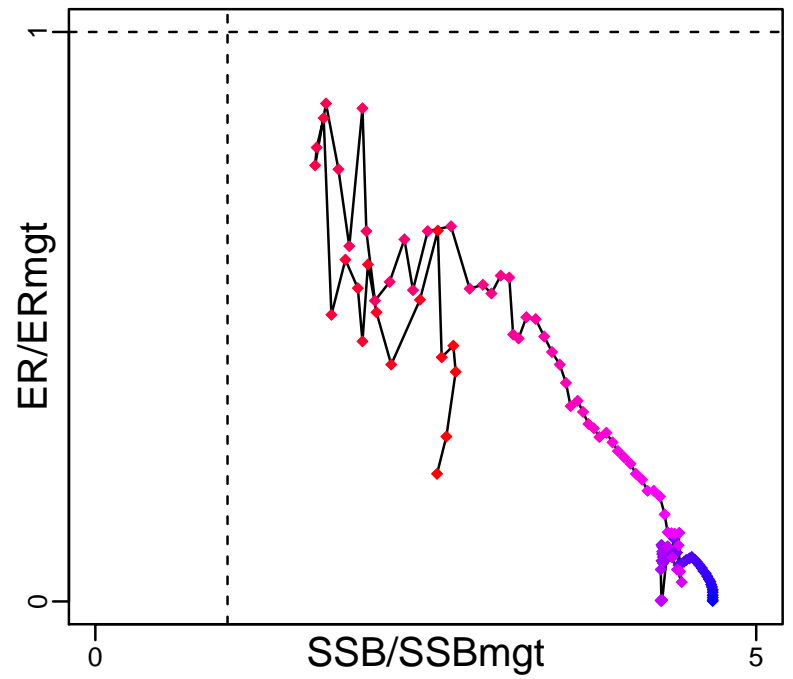
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-E00eggs | 2012 | 4.4×10^9 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 2,510,000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

King mackerel Southern Atlantic coast [KMACKSATLC]

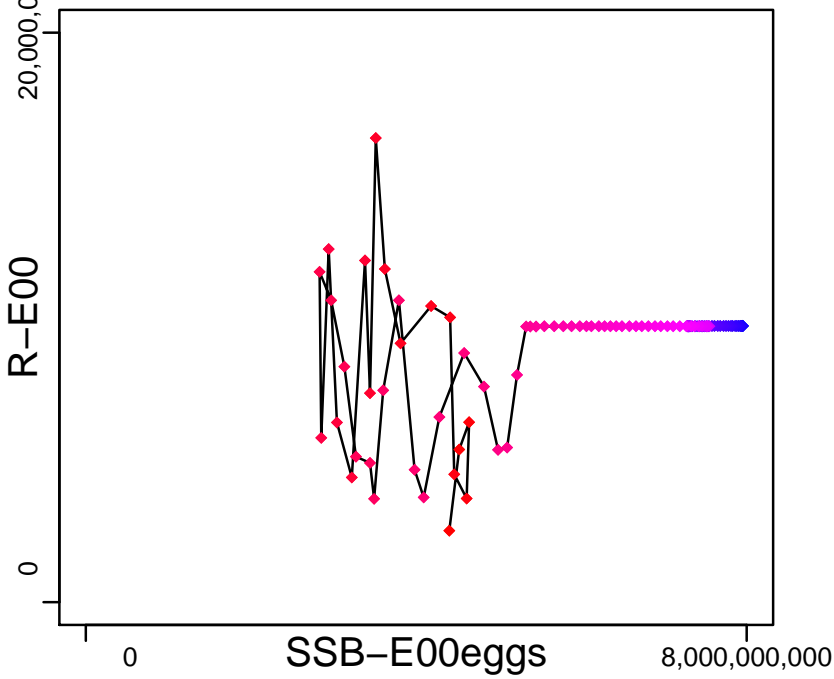
Kobe MSYpref (1901–2012–HIVELY)



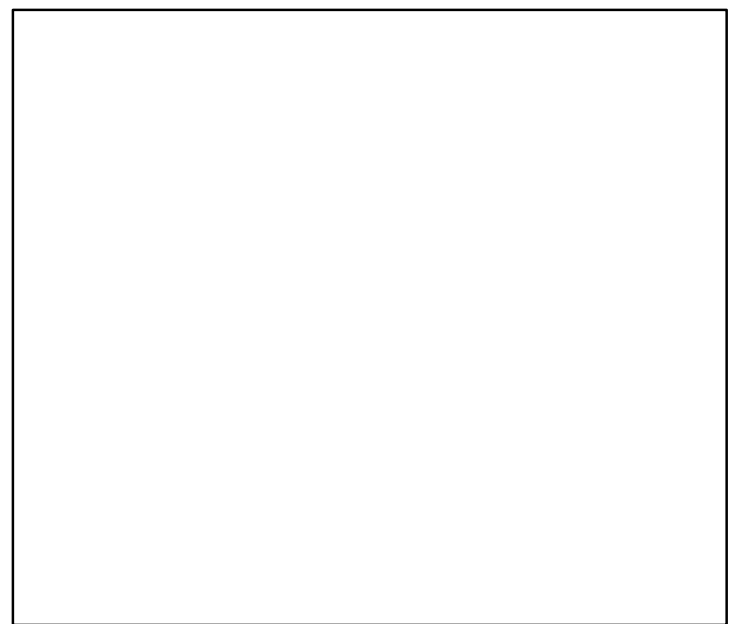
Kobe MGTpref (1901–2012–HIVELY)



Spawner Recruit (1901–2012–HIVELY)



Production*



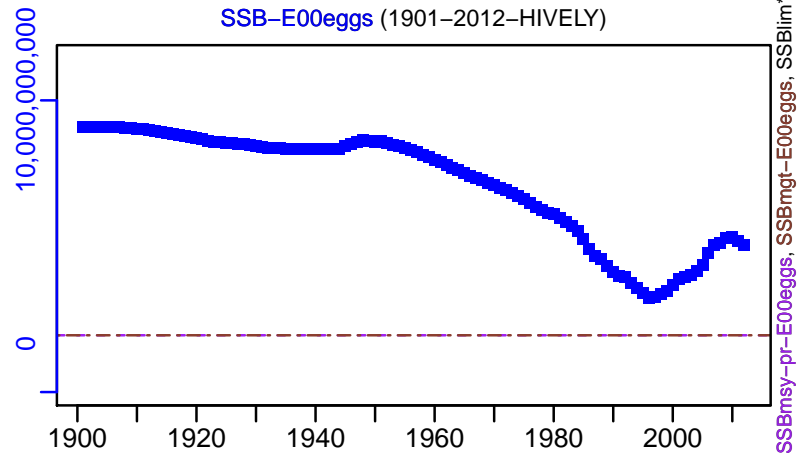
◆ Start Year ◆ End Year * No Data

King mackerel Southern Atlantic coast [KMACKSATLC]

TB*



SSB-E00eggs (1901-2012-HIVELY)



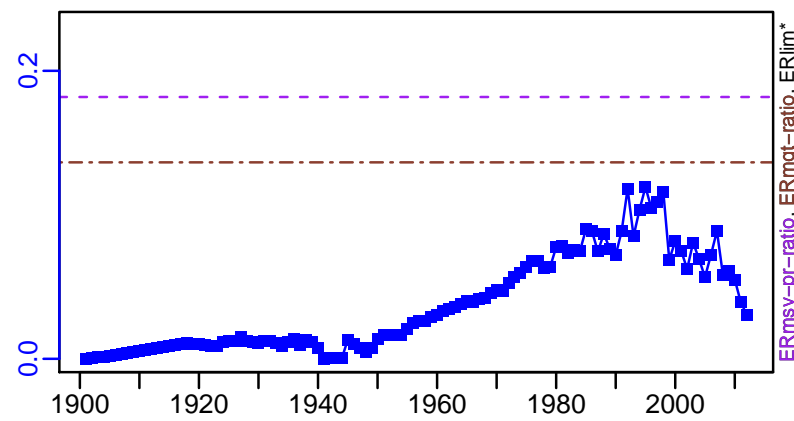
TN *



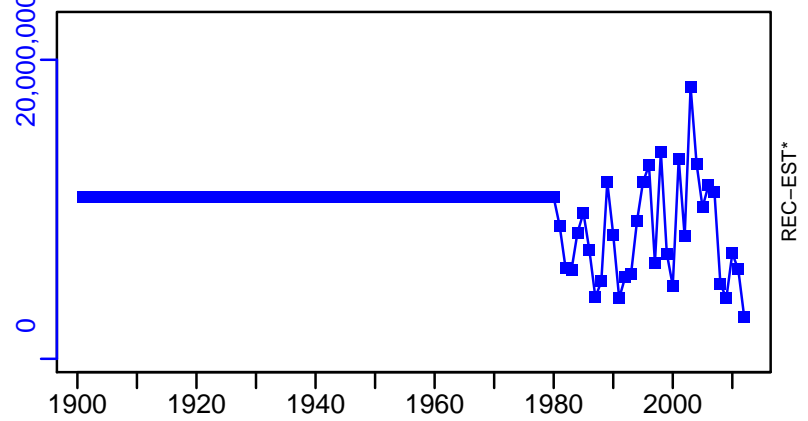
F*



ER-ratio (1901-2012-HIVELY)



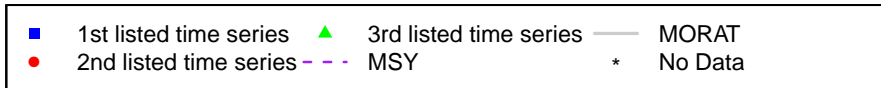
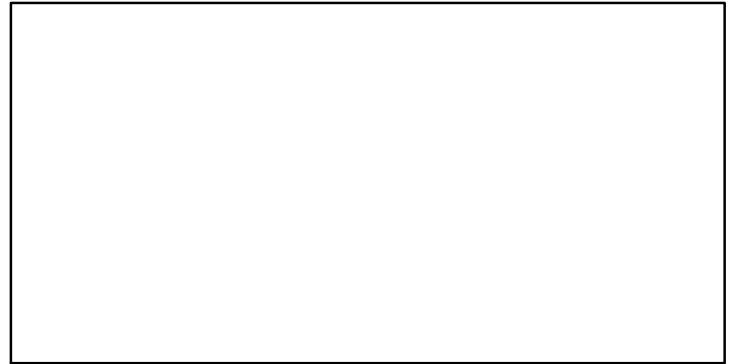
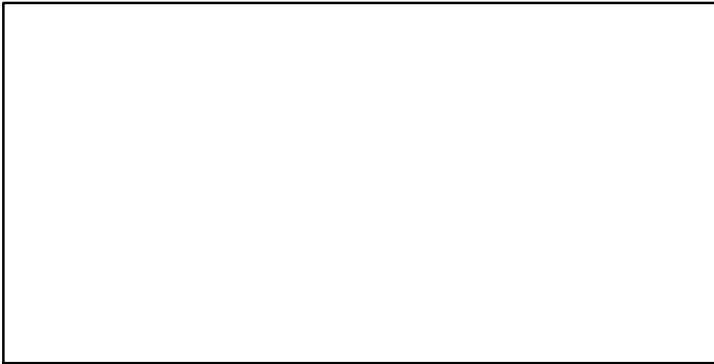
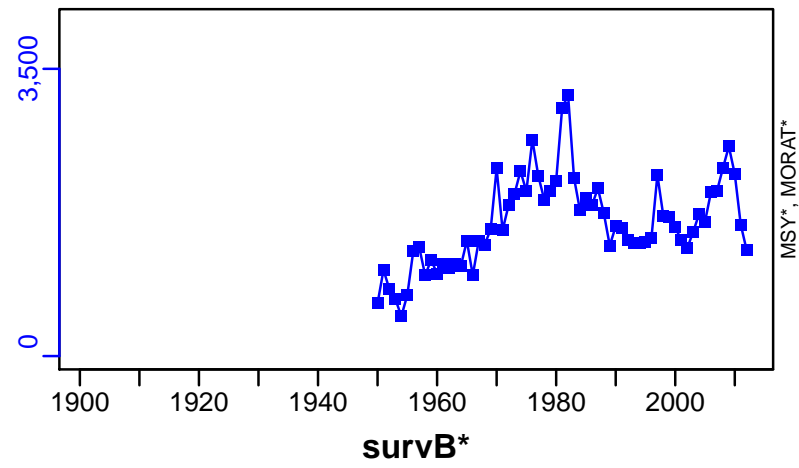
R-E00 (1901-2012-HIVELY)



King mackerel Southern Atlantic coast [KMACKSATLC]

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

TAC*, Cpair*, Cadv*



Longfin inshore squid Atlantic Coast [LISQUIDATLC]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Loligo pealeii |
| Current Assess ID | SEFSC-LISQUIDATLC-1963-2016-SISIMP2021 |
| Area | Atlantic Coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2009, 2016 |

| Reference Points | | | |
|------------------|----------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2009 | 42,405 |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|----------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2009 | 39,800 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2009 | 0.24 | - | - |
| ER | ER-calc-ratio | 2009 | 0.24 | - | - |
| TC | TC-MT | 2016 | 19,044 | | |
| TL | - | - | - | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2009 | 0.939 | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

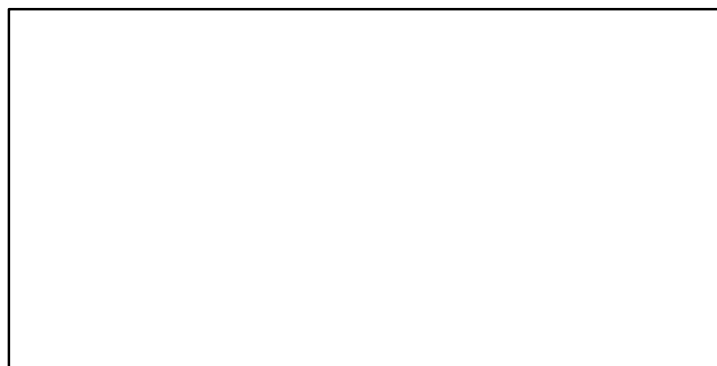
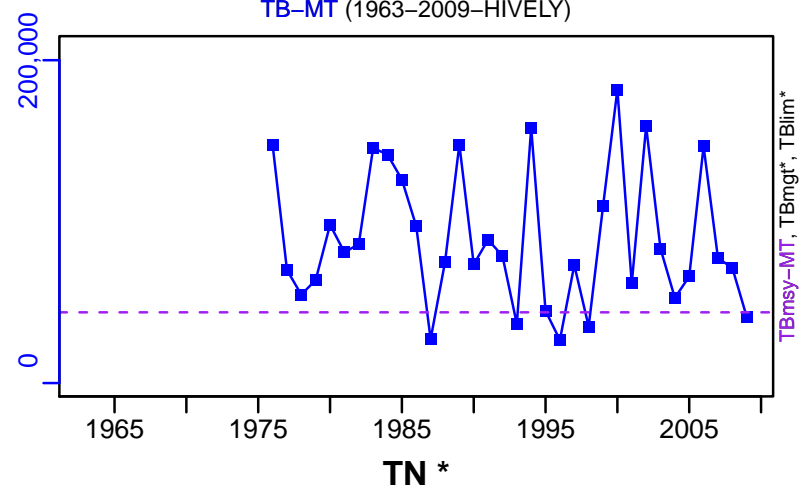


◆ Start Year ◆ End Year * No Data

Longfin inshore squid Atlantic Coast [LISQUIDATLC]

TB-MT (1963–2009–HIVELY)

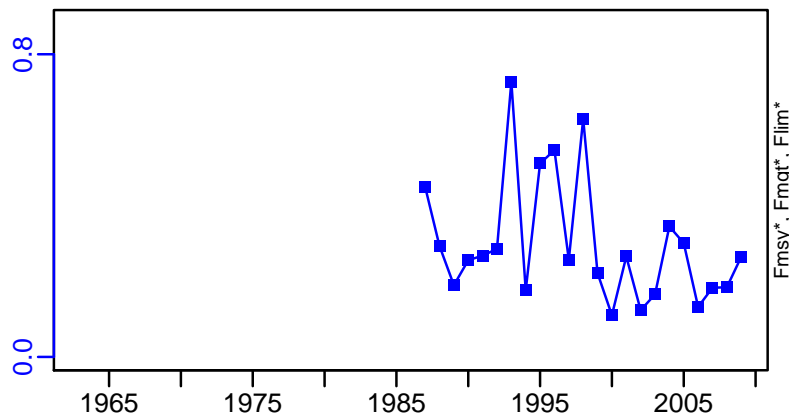
SSB*



TN *

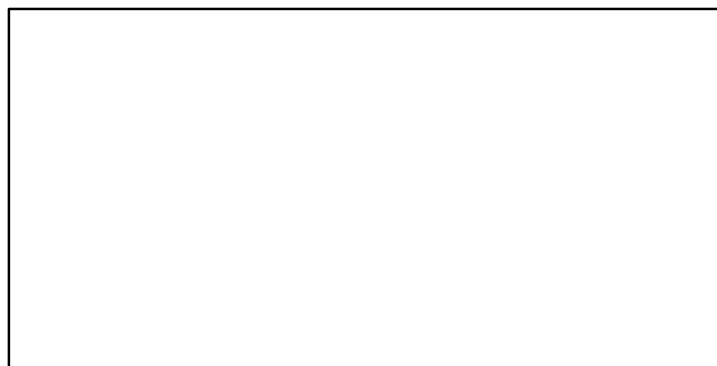
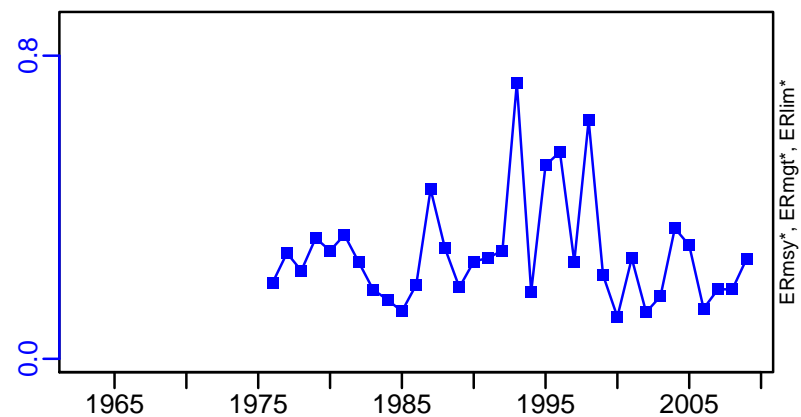


F-1/yr (1963–2009–HIVELY)



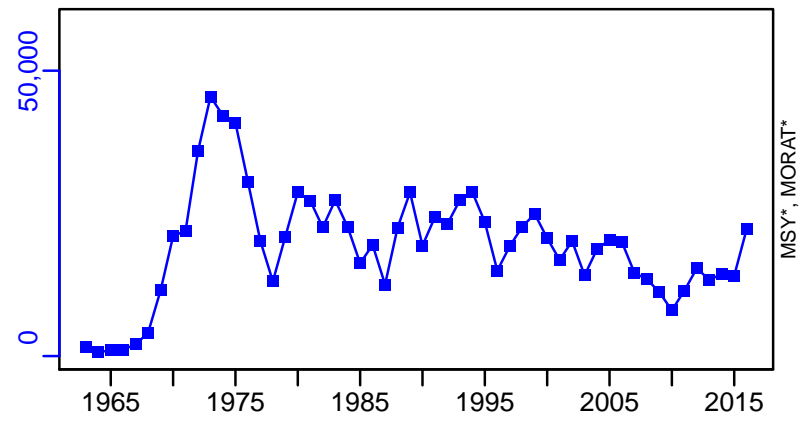
ER-calc-ratio (1963–2009–HIVELY)

Recruits*



Longfin inshore squid Atlantic Coast [LISQUIDATLC]

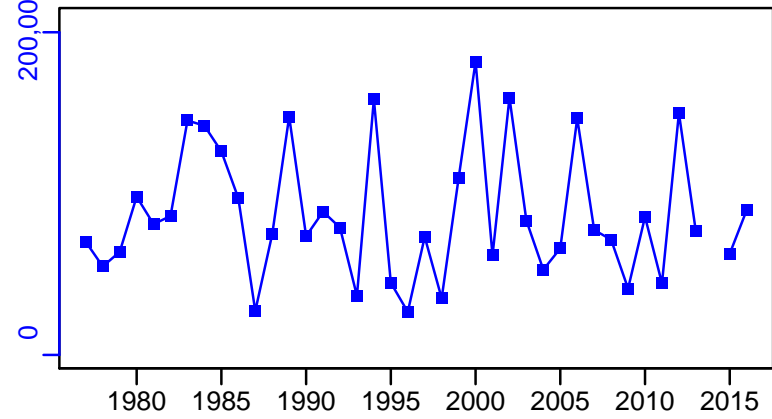
TC-MT, TL*, RecC* (1963–2016–SISIMP2021)



TAC*, Cpair*, Cadv*



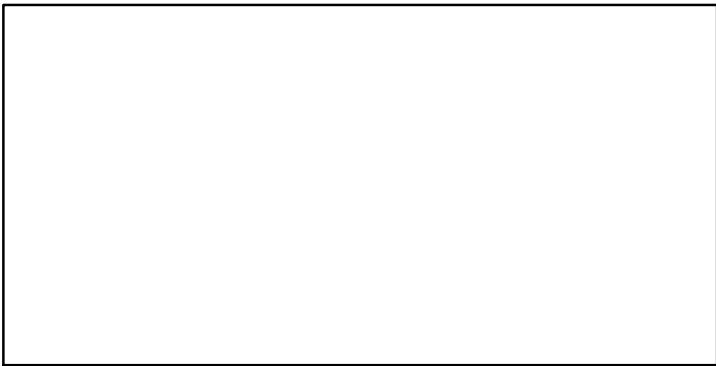
survB-MT (1963–2016–SISIMP2021)



CPUE*



EFFORT*



CdivMSY*



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

Lane snapper Gulf of Mexico [LNSNAPGM]

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

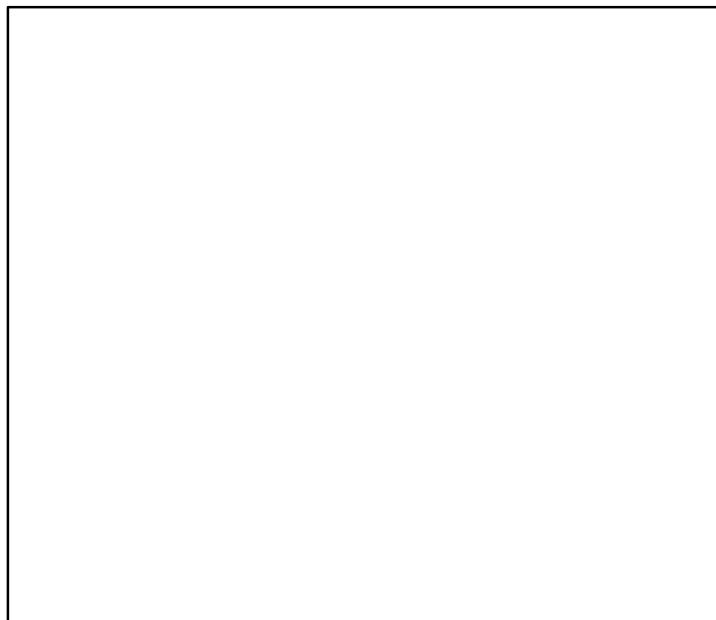
| Reference Points | | | |
|------------------|--------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| 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 | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Kobe MSY*



Kobe MGT*



Spawner Recruit*



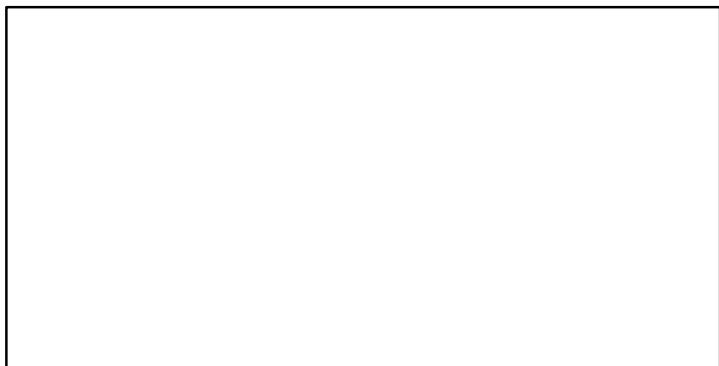
Production*



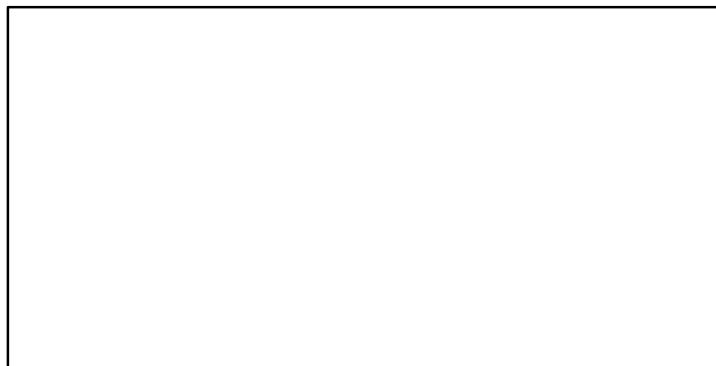
◆ Start Year ◆ End Year * No Data

Lane snapper Gulf of Mexico [LNSNAPGM]

TB*



SSB*



TN *



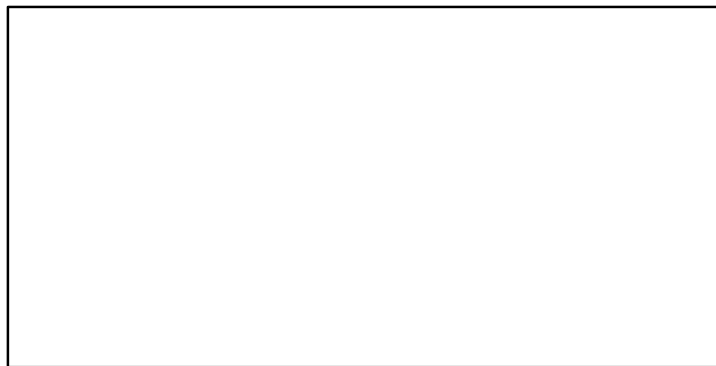
F*



ER*

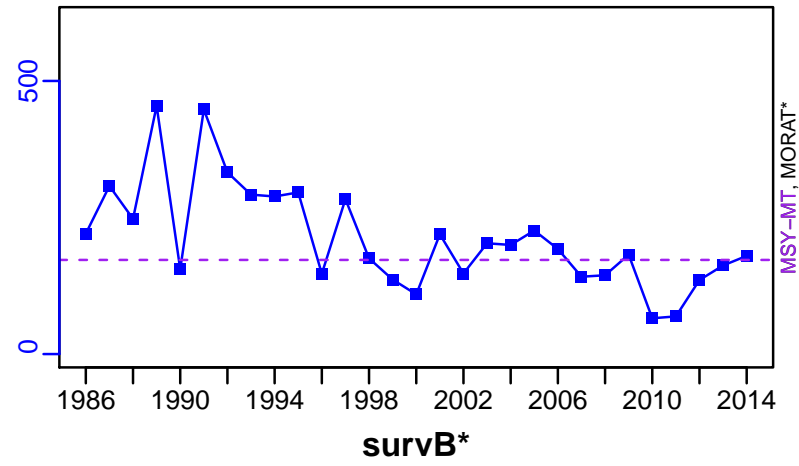


Recruits*



Lane snapper Gulf of Mexico [LNSNAPGM]

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



TAC*, Cpair*, Cadv*



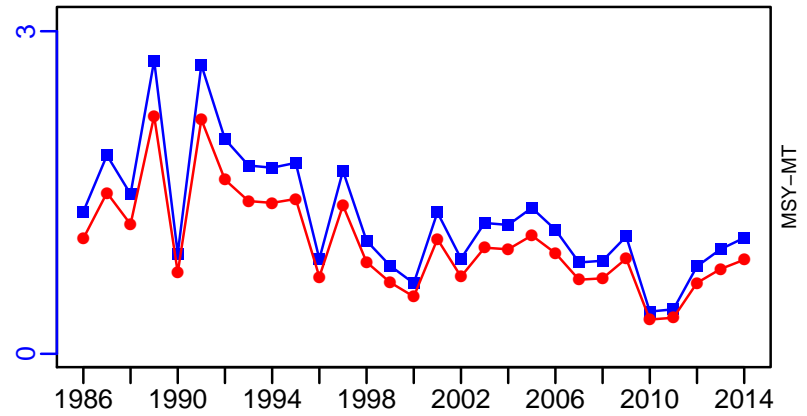
CPUE*



EFFORT*



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



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

Gulf menhaden Gulf of Mexico [MENATGM]

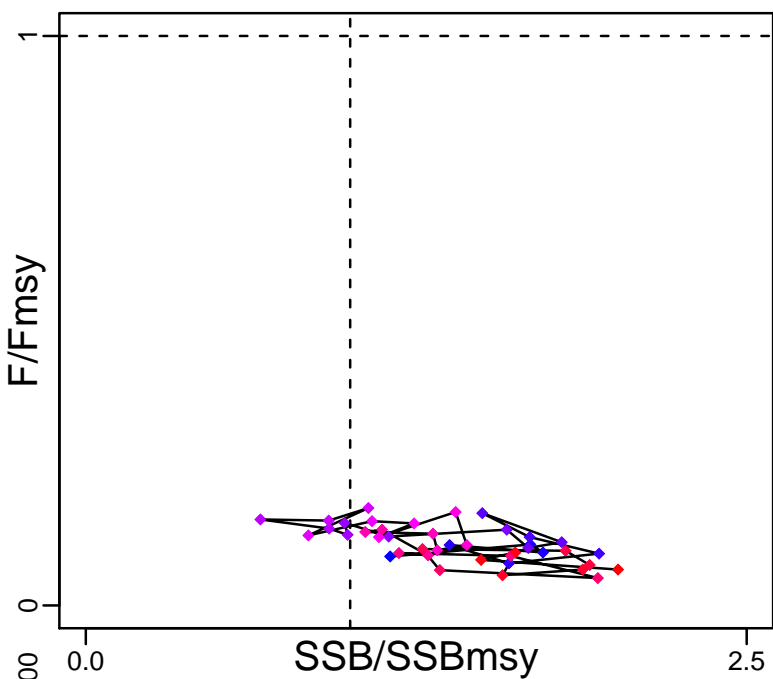
| Metadata | |
|-----------------------------|---|
| Scientific Name | Brevoortia patronus |
| Current Assess ID | SEFSC-MENATGM-1948-2017-ASHBROOK |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2011, 2017 |

| Reference Points | | | |
|------------------|-------------------|-----------|----------------------------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-pr-E00eggs | 2017 | $2.074,992 \times 10^{15}$ |
| Fmsy | Fmsy-pr-1/yr | 2017 | 10 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | SSBmgt-E00eggs | 2011 | 4.98×10^{13} |
| Fmgt | Fmgt-1/yr | 2011 | 3.66 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | M-1/yr | 2011 | 1.22 |
| TBlim | - | - | - |
| SSBlim | SSBlim-E00eggs | 2011 | 2.26×10^{13} |
| Flim | Flim-1/yr | 2011 | 4.88 |
| ERlim | - | - | - |

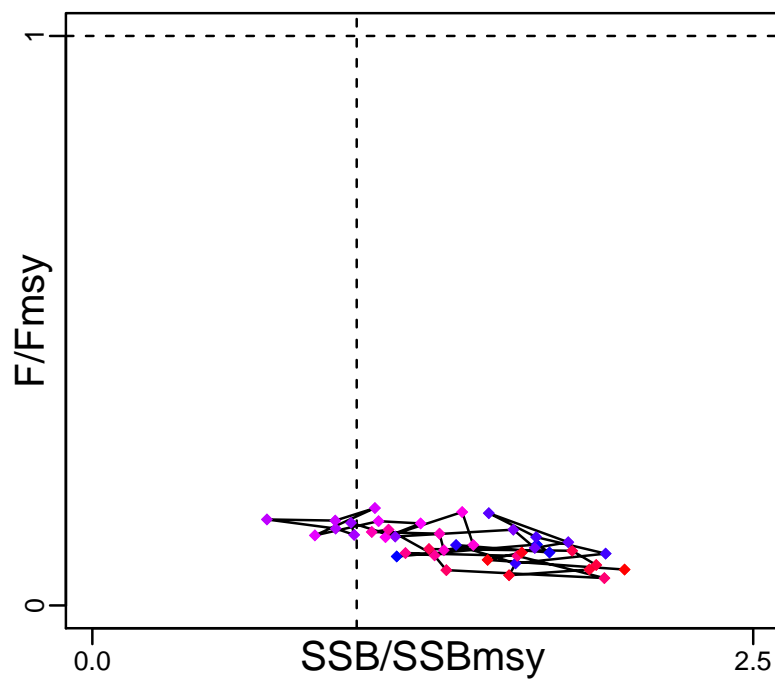
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|---------------------------|------|------|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2011 | 3,400,000 | Both | 1+ |
| SSB | SSB-E00eggs | 2017 | $4.177,79 \times 10^{15}$ | Both | 1-4+ |
| TN | TN-E00 | 2017 | 1.24×10^{11} | Both | 0-4+ |
| R | R-E00 | 2017 | 7.77×10^{10} | Both | 0 |
| F | F-1/yr | 2017 | 0.63 | Both | 0-4+ |
| ER | ER-calc-ratio | 2011 | 0.181 | - | - |
| TC | TC-MT | 2017 | 462,460 | | |
| TL | TL-MT | 2017 | 460,702 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-E00eggs/SSBmsy-pr-E00eggs | 2017 | 2.013 | | |
| F/Fmsy | F-1/yr/Fmsy-pr-1/yr | 2017 | 0.063 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | SSB-E00eggs/SSBmgt-E00eggs | 2011 | 1.014 | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 0.645 | | |
| ER/ERmgt | - | - | - | | |

Gulf menhaden Gulf of Mexico [MENATGM]

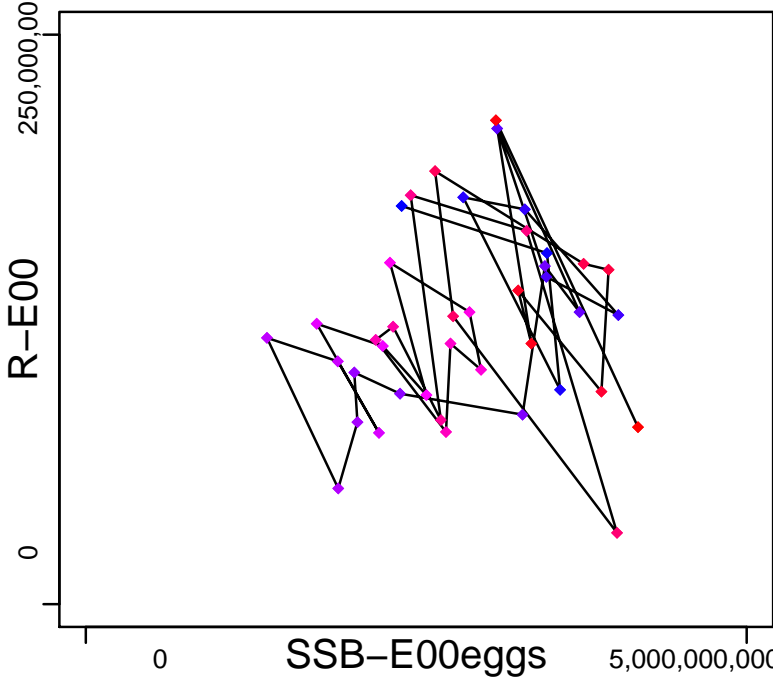
Kobe MSYpref (1948–2017–ASHBROOK)



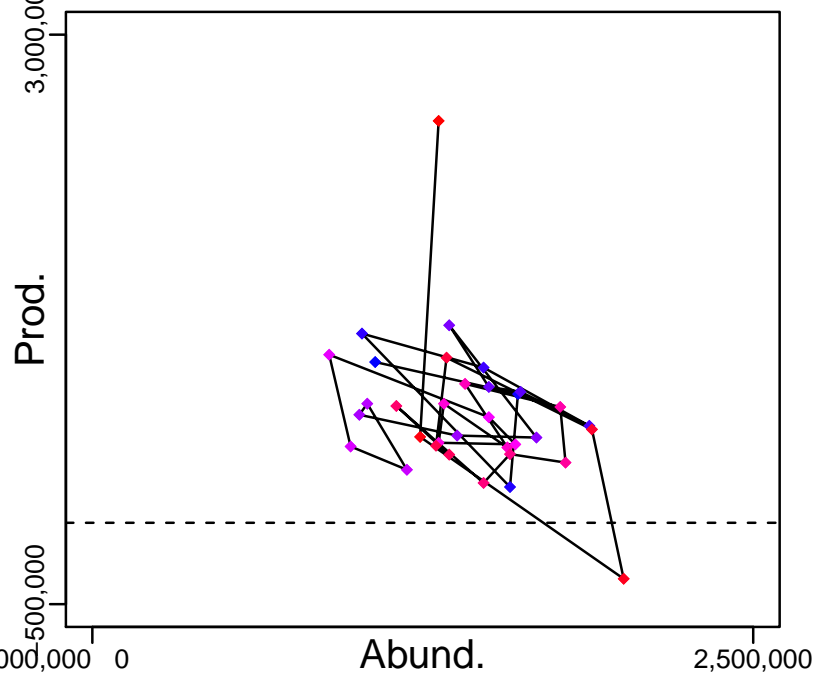
Kobe MGTpref (1948–2017–ASHBROOK)



Spawner Recruit (1948–2017–ASHBROOK)

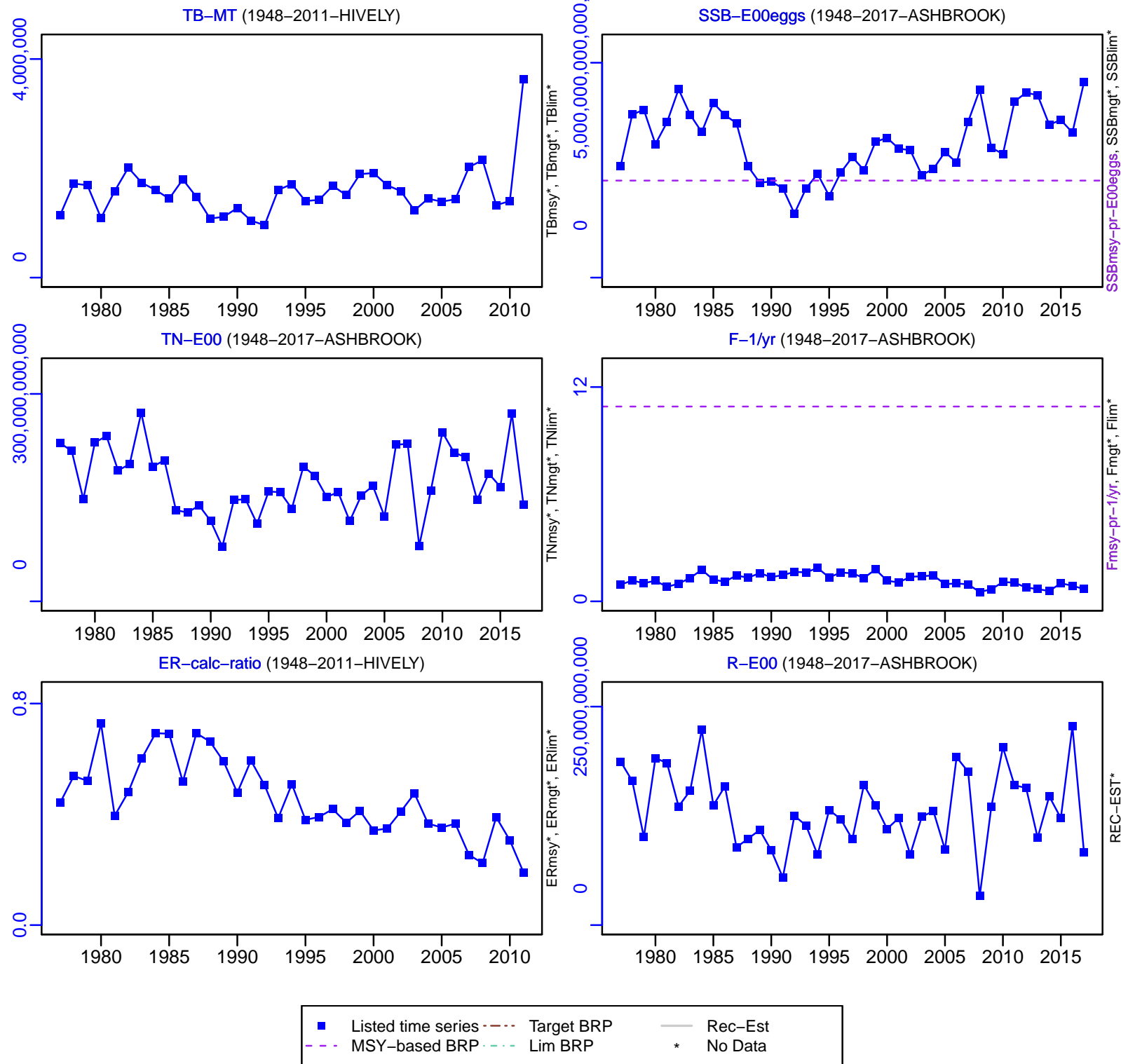


Production (1948–2011–HIVELY)



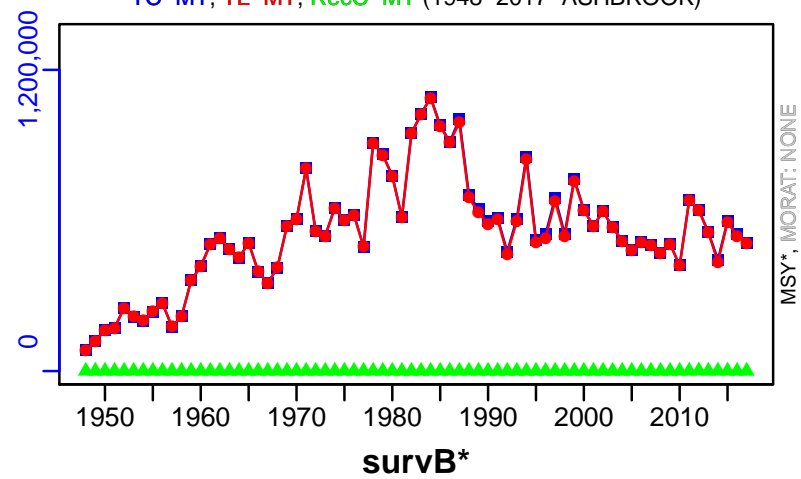
◆ Start Year ◆ End Year * No Data

Gulf menhaden Gulf of Mexico [MENATGM]



Gulf menhaden Gulf of Mexico [MENATGM]

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



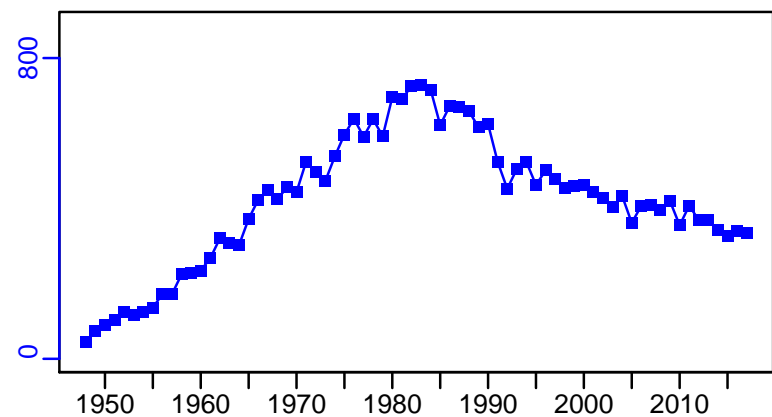
TAC*, Cpair*, Cadv*



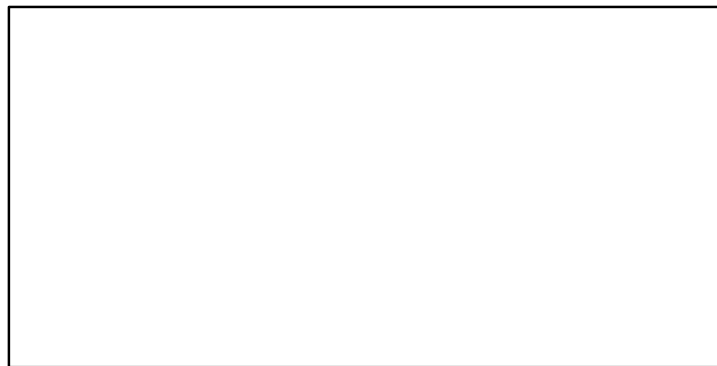
CPUE*



EFFORT-vtw (1948-2017-ASHBROOK)



CdivMSY*



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

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

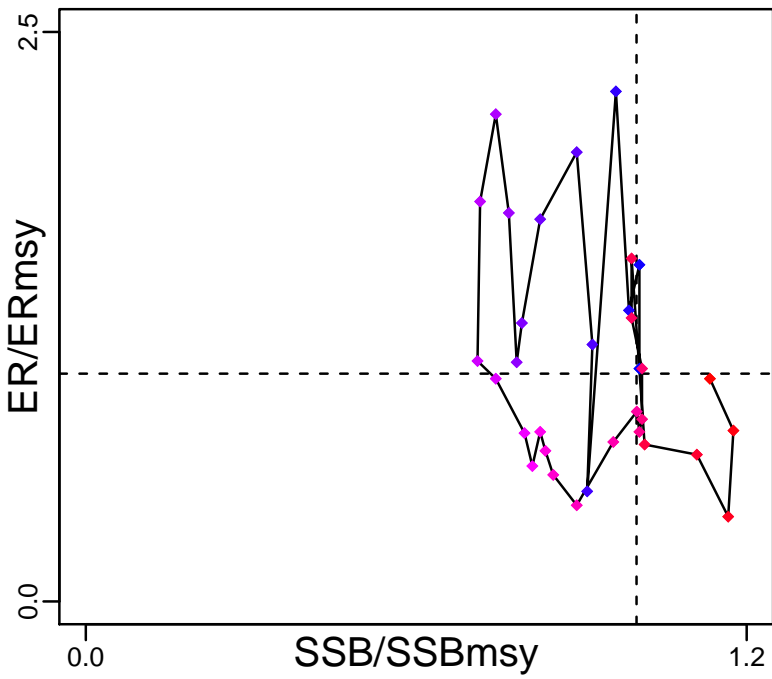
| Metadata | |
|-----------------------------|---|
| Scientific Name | Lutjanus analis |
| Current Assess ID | SEFSC-MUTSNAPSATLCGM-1981-2013-SISIMP2016 |
| Area | Southern Atlantic coast and Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor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

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

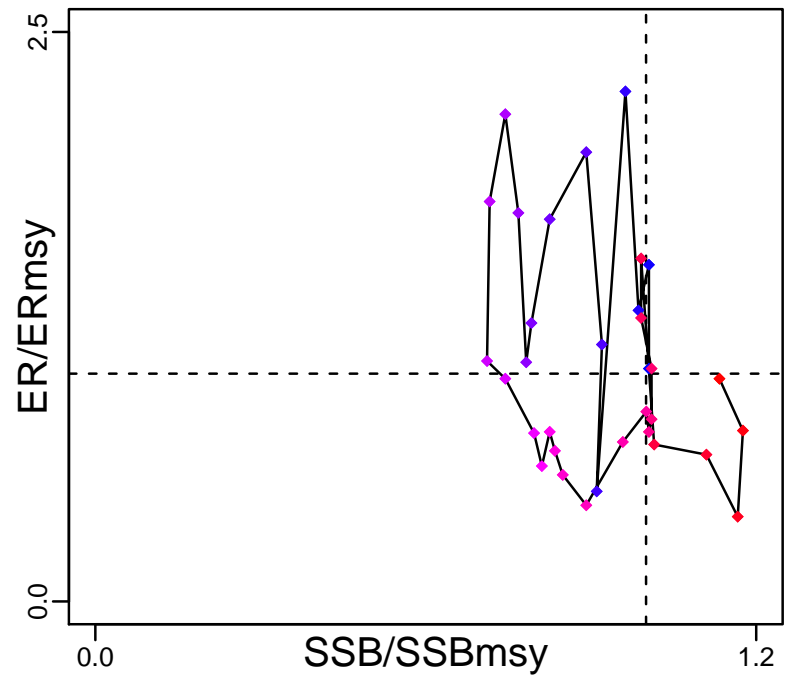
| Time Series | | | | | |
|-------------------|----------------------|-----------|------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2013 | 5210 | - | - |
| SSB | SSB-MT | 2013 | 2390 | Females | 4+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2006 | 1,580,000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

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

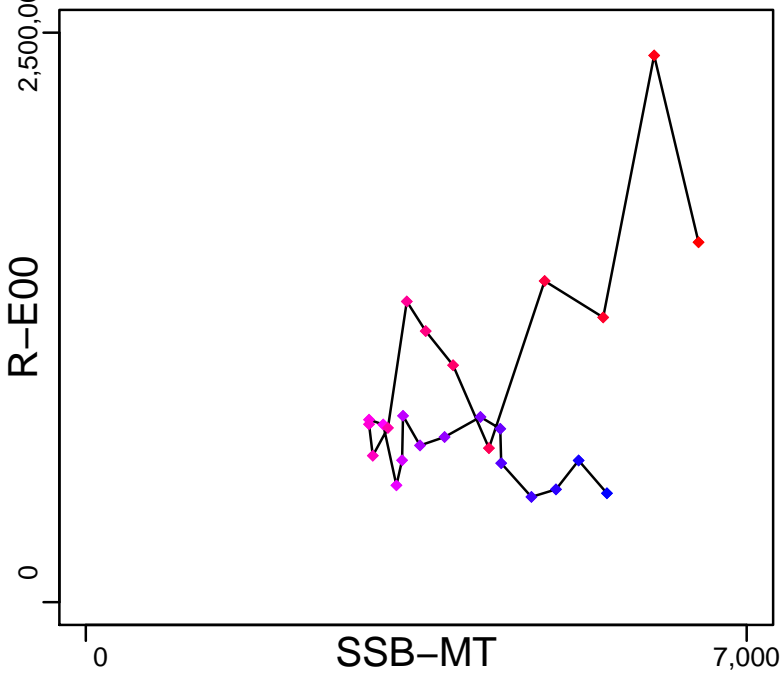
Kobe MSY_{pref} (1981–2013–SISIMP2016)



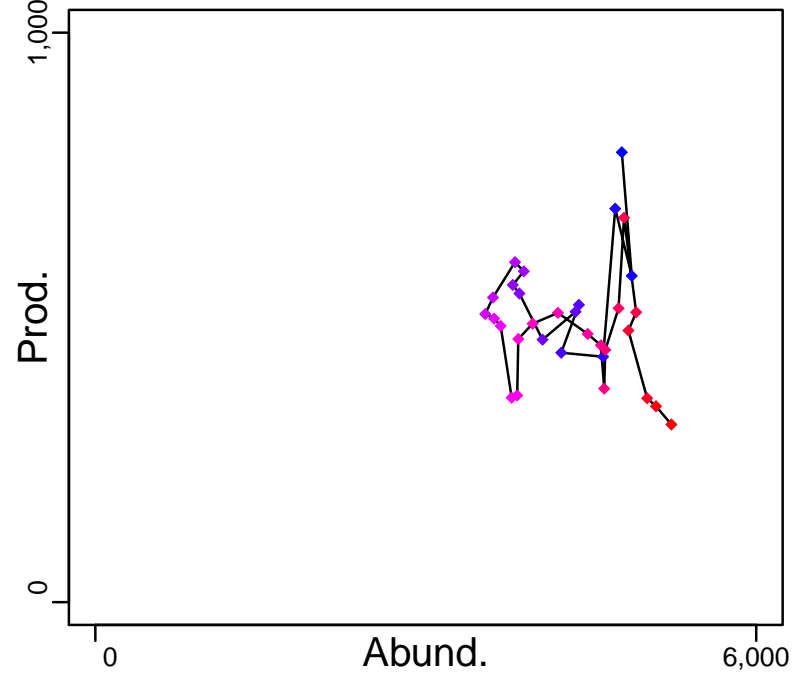
Kobe MGT_{pref} (1981–2013–SISIMP2016)



Spawner Recruit (1981–2006–JENSEN)



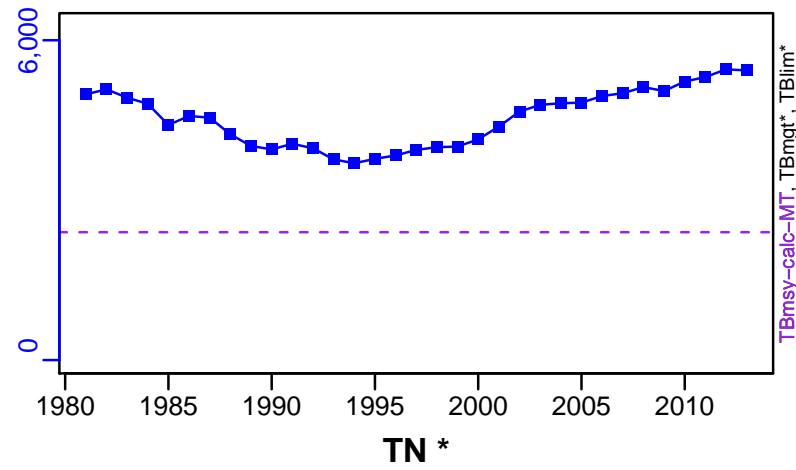
Production (1981–2013–SISIMP2016)



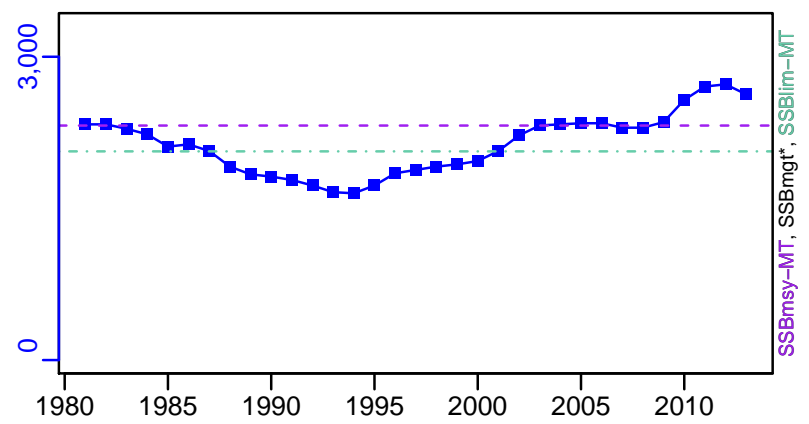
◆ Start Year ◆ End Year * No Data

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

TB-MT (1981–2013–SISIMP2016)



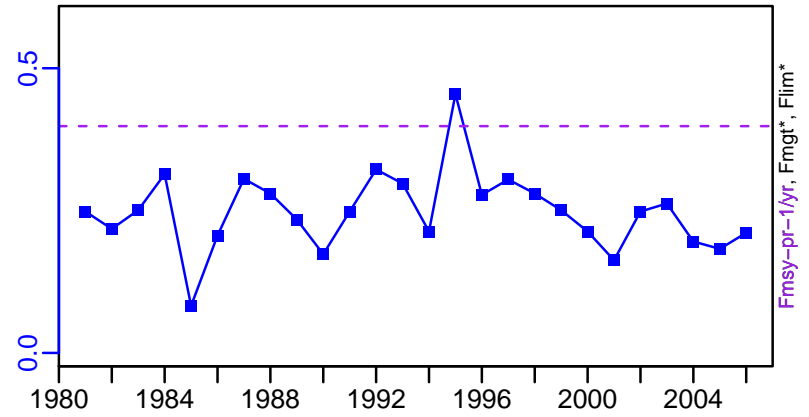
SSB-MT (1981–2013–SISIMP2016)



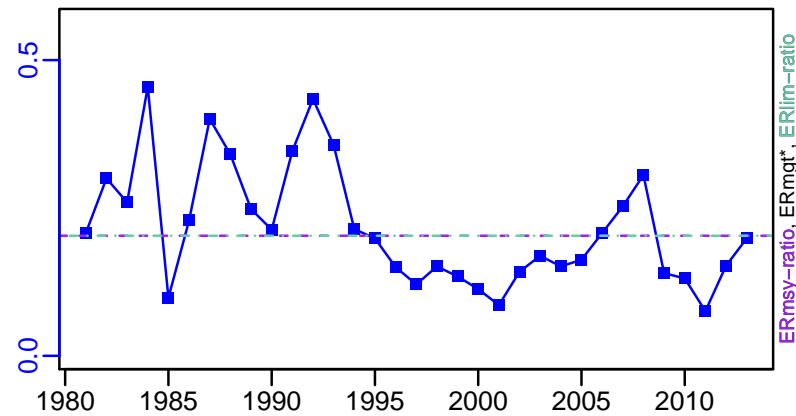
TN *



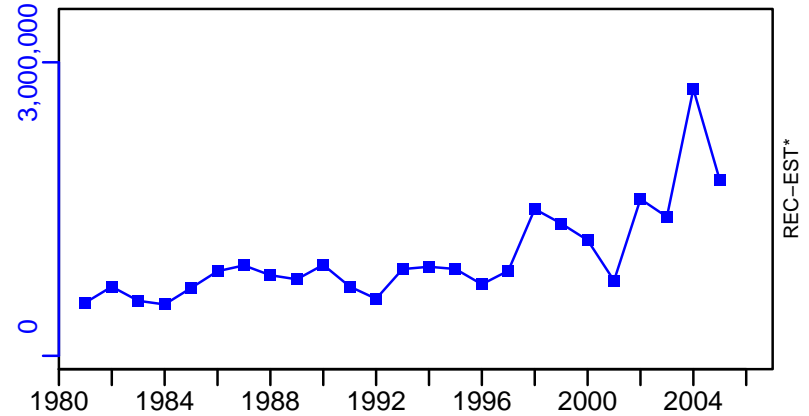
F-1/yr (1981–2006–JENSEN)



ER-ratio (1981–2013–SISIMP2016)



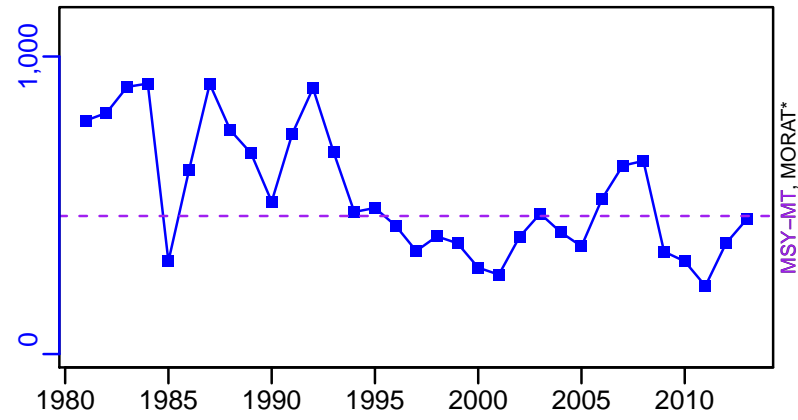
R-E00 (1981–2006–JENSEN)



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

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

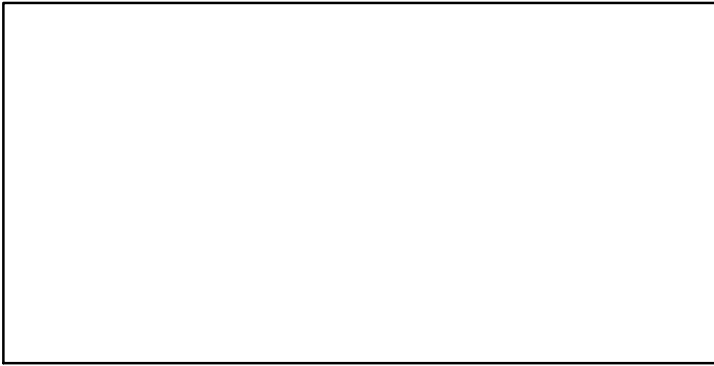
TAC*, Cpair*, Cadv*



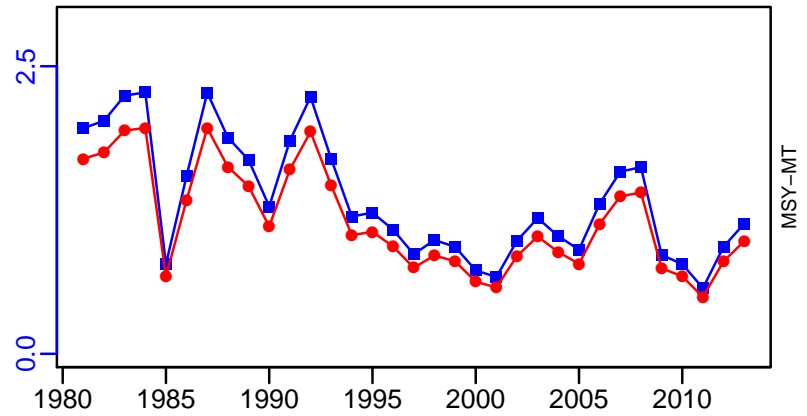
CPUE*



EFFORT*



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



Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

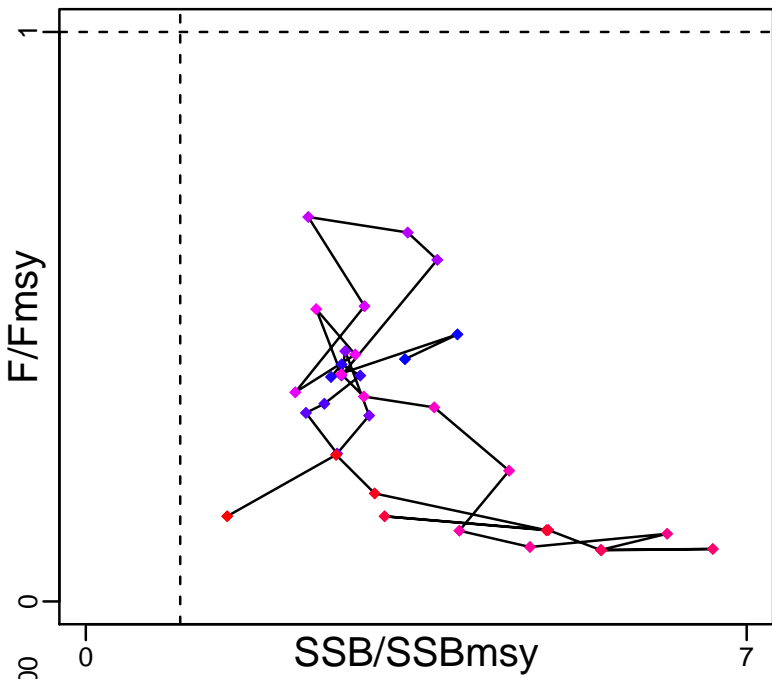
| Metadata | |
|-----------------------------|---|
| Scientific Name | Farfantepenaeus duorarum |
| Current Assess ID | SEFSC-PINKSHRIMPGM-1984-2017-SISIMP2021 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries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

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

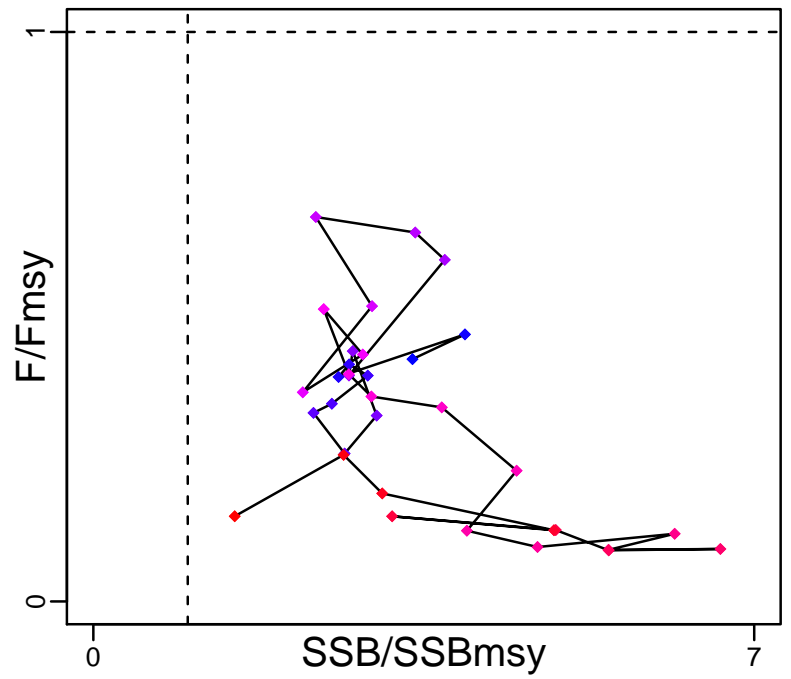
| Time Series | | | | | |
|-------------|------------------|-----------|---------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2017 | 16,097 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2017 | 3,017,759,000 | - | - |
| F | F-1/yr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

Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

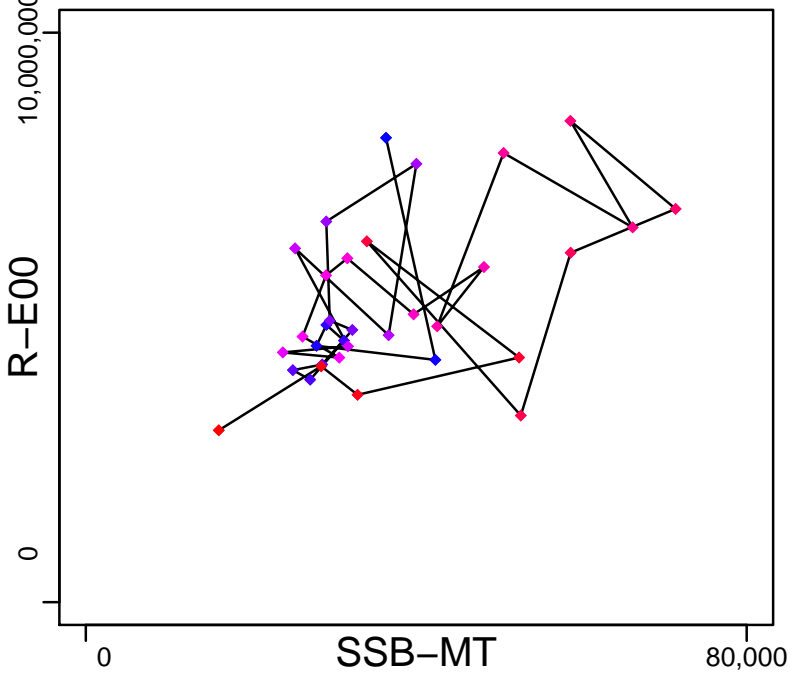
Kobe MSY_{pref} (1984–2017–SISIMP2021)



Kobe MGT_{pref} (1984–2017–SISIMP2021)



Spawner Recruit (1984–2017–SISIMP2021)



Production*



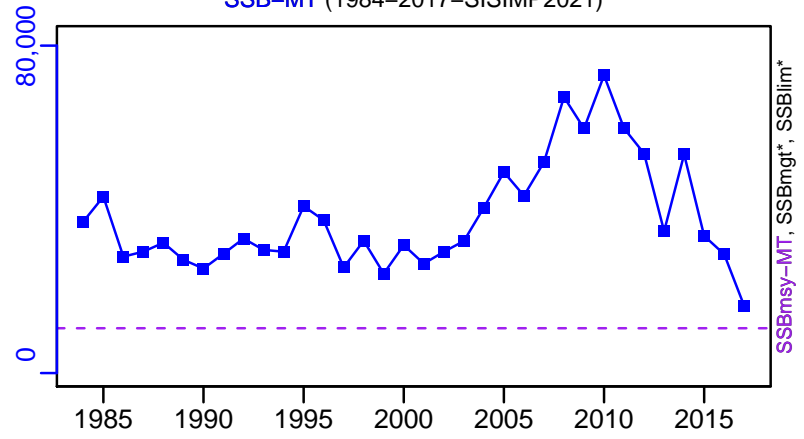
◆ Start Year ◆ End Year * No Data

Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

TB*



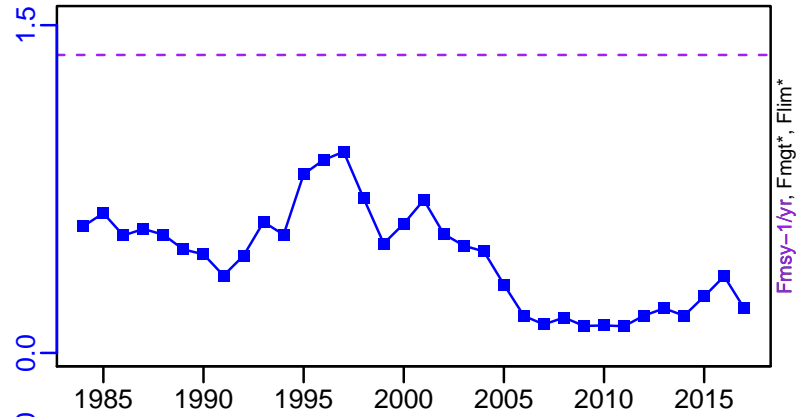
SSB-MT (1984–2017–SISIMP2021)



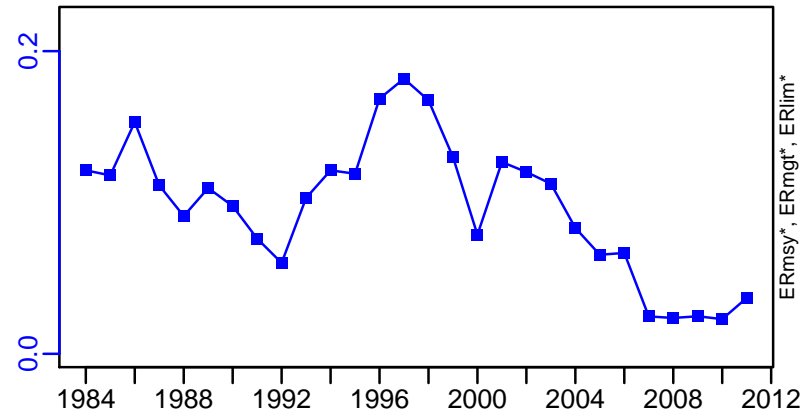
TN *



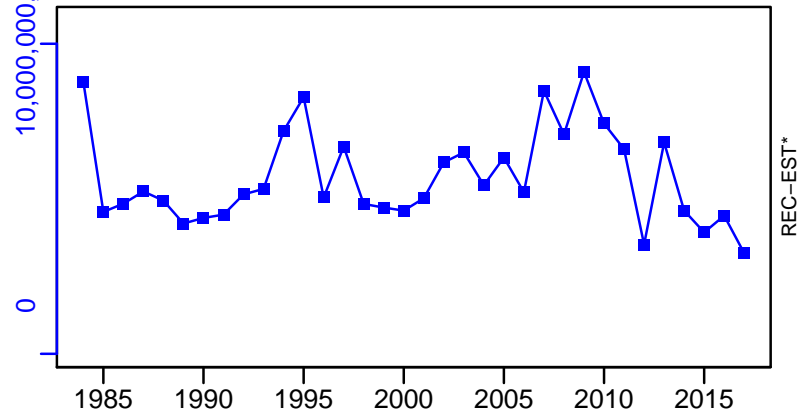
F-1/yr (1984–2017–SISIMP2021)



ER-ratio (1984–2011–HIVELY)



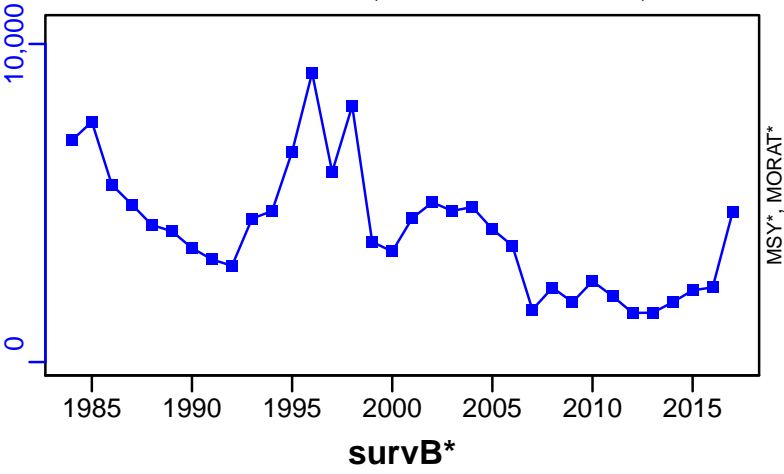
R-E00 (1984–2017–SISIMP2021)



Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

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

TAC*, Cpair*, Cadv*



Red grouper Gulf of Mexico [RGROUPGM]

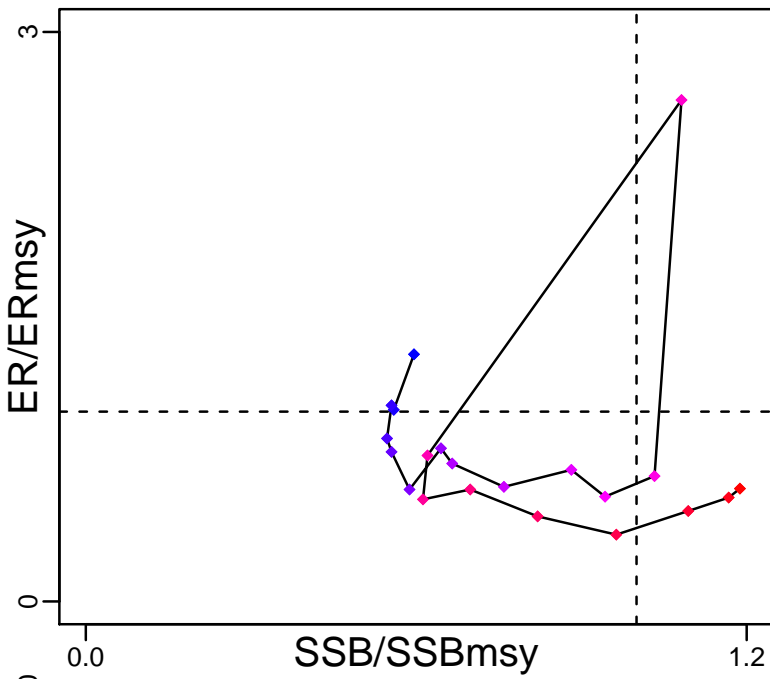
| Metadata | |
|-----------------------------|---|
| Scientific Name | Epinephelus morio |
| Current Assess ID | SEFSC-RGROUPGM-1993-2013-SISIMP2016 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2005, 2013 |

| Reference Points | | | |
|------------------|----------------|-----------|-----------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-calc-MT | 2013 | 30,798 |
| SSBmsy | SSBmsy-E00eggs | 2013 | 2,450,000 |
| Fmsy | Fmsy-1/yr | 2005 | 0.22 |
| ERmsy | ERmsy-ratio | 2013 | 0.212 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | ERmgt-ratio | 2013 | 0.164 |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2013 | 6529 |
| M | M-1/yr | 2005 | 0.14 |
| TBlim | - | - | - |
| SSBlim | SSBlim-E00eggs | 2013 | 2,100,000 |
| Flim | Flim-1/yr | 2005 | 0.22 |
| ERlim | ERlim-ratio | 2013 | 0.212 |

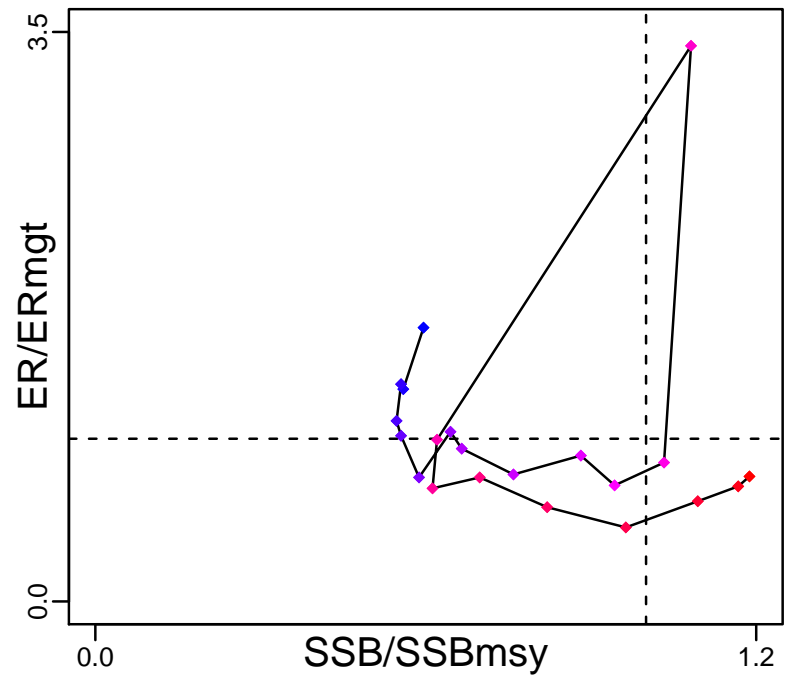
| Time Series | | | | | |
|-------------------|----------------------------|-----------|------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2013 | 46,500 | - | 0+ |
| SSB | SSB-E00eggs | 2013 | 2,910,000 | Females | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 13,100,000 | - | 0 |
| F | F-1/yr | 2005 | 0.16 | - | - |
| ER | ER-ratio | 2013 | 0.126 | - | - |
| TC | TC-MT | 2013 | 5840 | | |
| TL | - | - | - | | |
| TB/TBmsy | TB-MT/TBmsy-calc-MT | 2013 | 1.51 | | |
| SSB/SSBmsy | SSB-E00eggs/SSBmsy-E00eggs | 2013 | 1.188 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2005 | 0.727 | | |
| ER/ERmsy | ER-ratio/ERmsy-ratio | 2013 | 0.594 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Red grouper Gulf of Mexico [RGROUPGM]

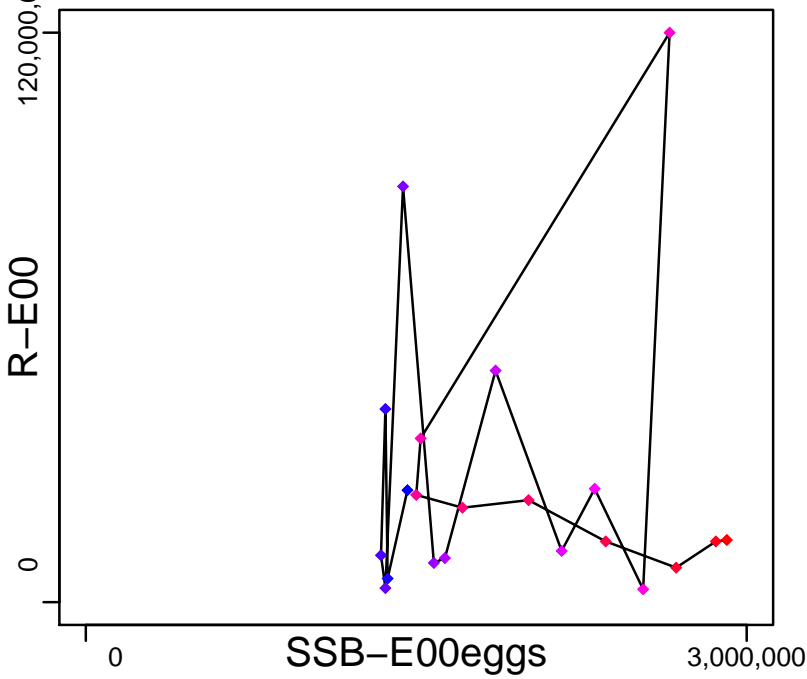
Kobe MSYpref (1993–2013–SISIMP2016)



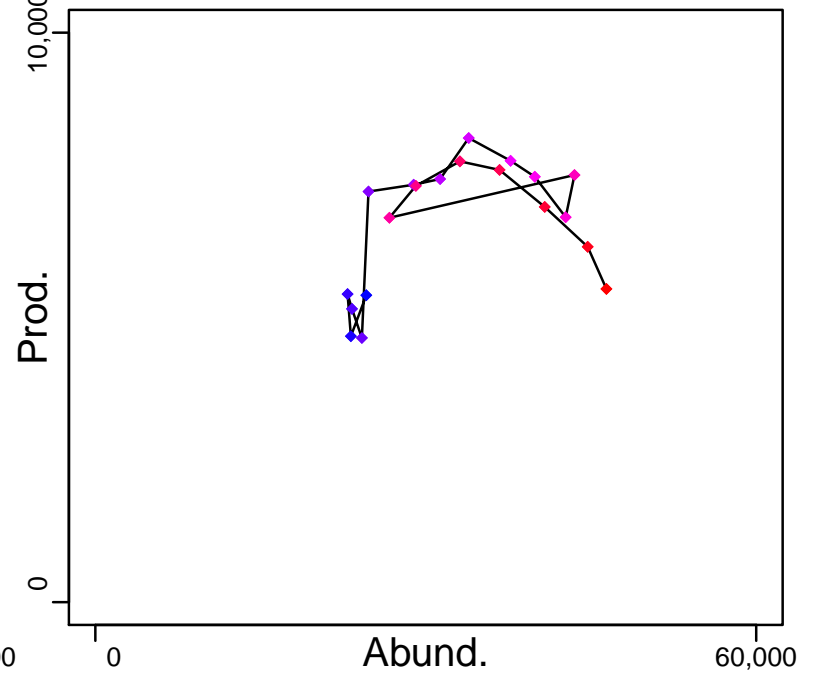
Kobe MGTpref (1993–2013–SISIMP2016)



Spawner Recruit (1993–2013–SISIMP2016)



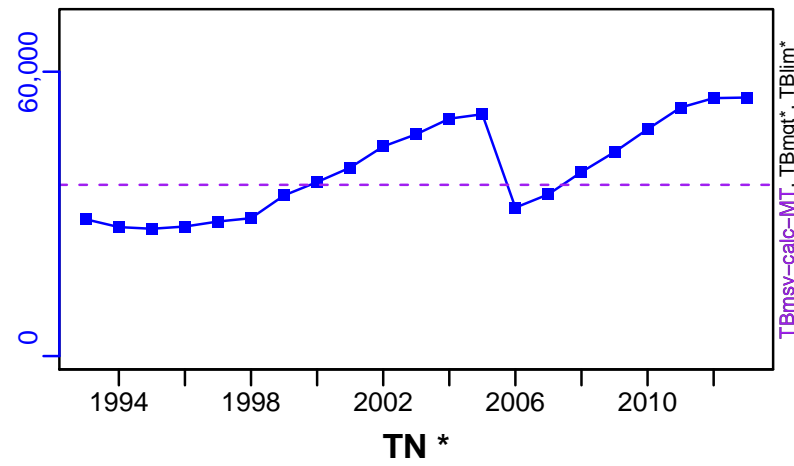
Production (1993–2013–SISIMP2016)



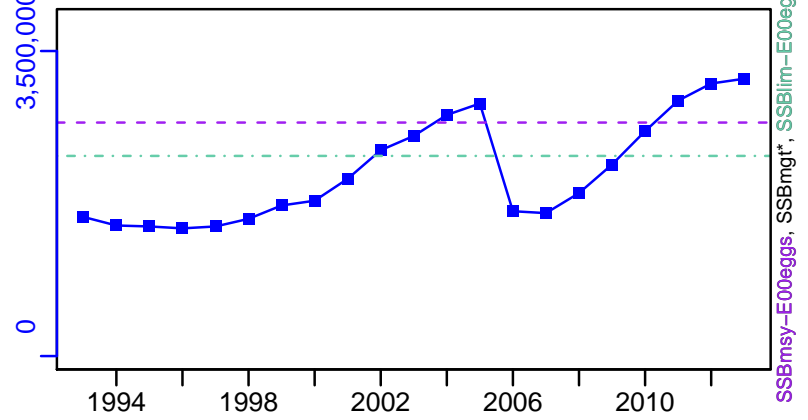
◆ Start Year ◆ End Year * No Data

Red grouper Gulf of Mexico [RGROUPGM]

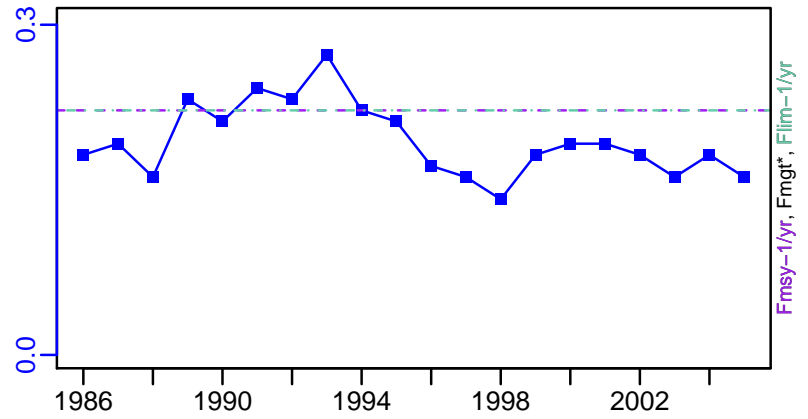
TB-MT (1993–2013–SISIMP2016)



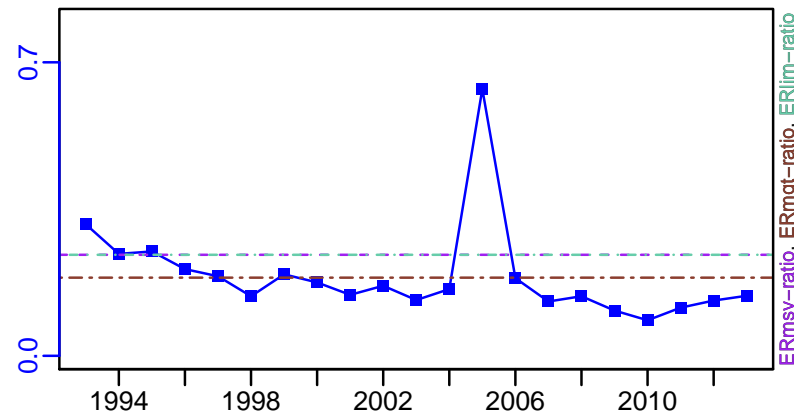
SSB-E00eggs (1993–2013–SISIMP2016)



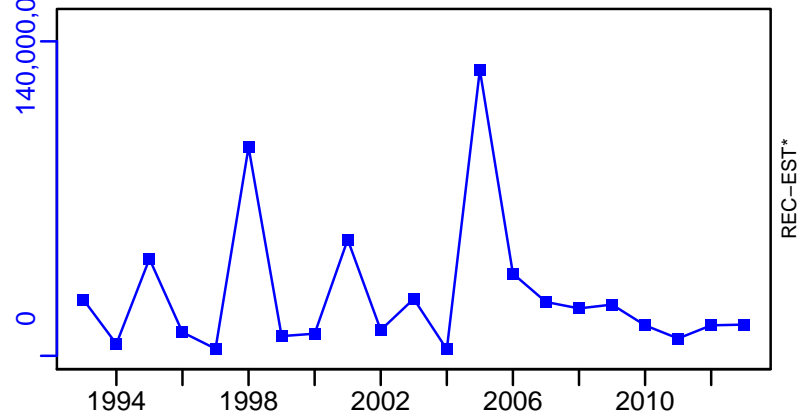
F-1/yr (1986–2005–JENSEN)



ER-ratio (1993–2013–SISIMP2016)



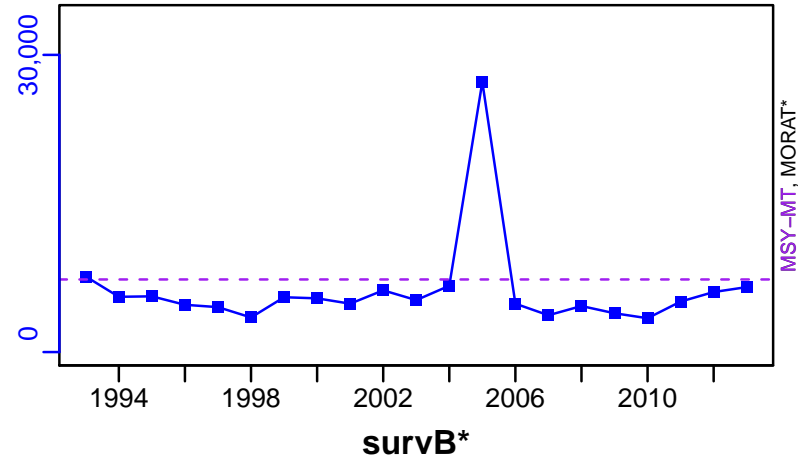
R-E00 (1993–2013–SISIMP2016)



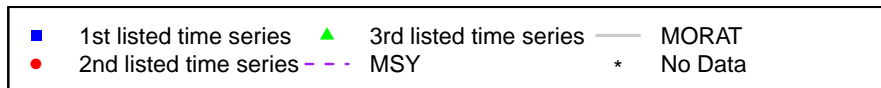
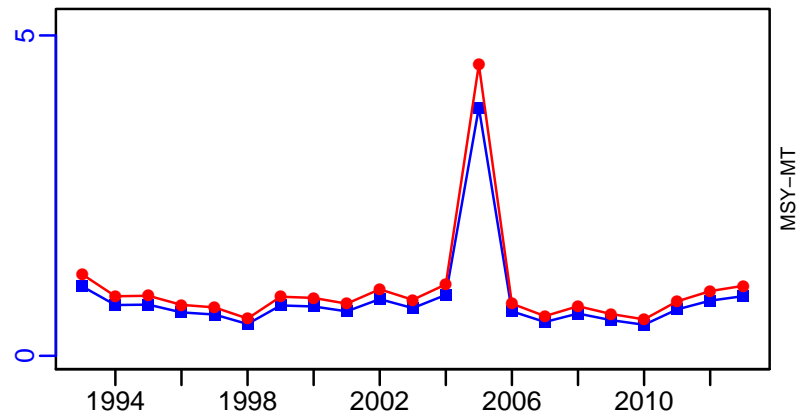
Red grouper Gulf of Mexico [RGROUPGM]

TC-MT, TL*, RecC* (1993–2013–SISIMP2016)

TAC*, Cpair*, Cadv*



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



Red grouper South Atlantic [RGROUPSATL]

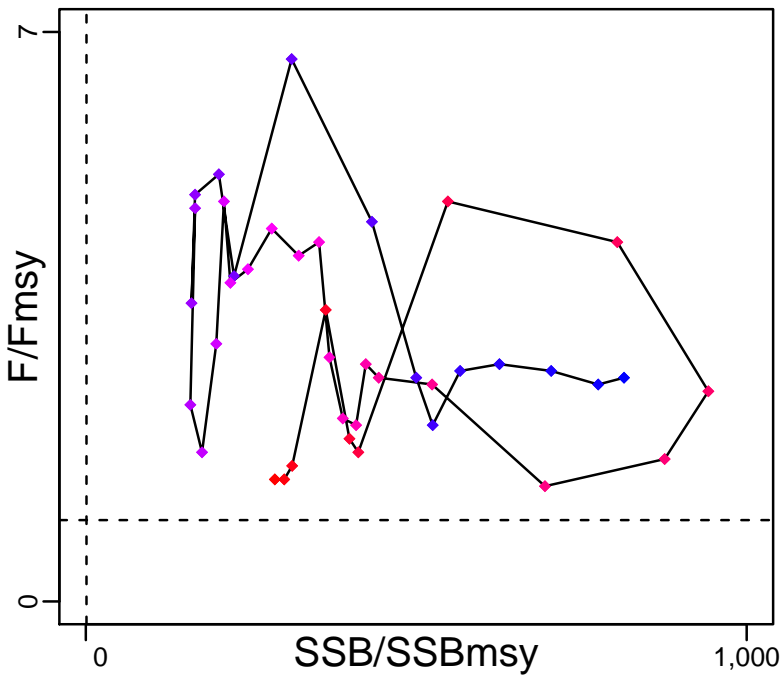
| Metadata | |
|-----------------------------|---|
| Scientific Name | Epinephelus morio |
| Current Assess ID | SEFSC-RGROUPSATL-1975-2015-SISIMP2021 |
| Area | South Atlantic |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

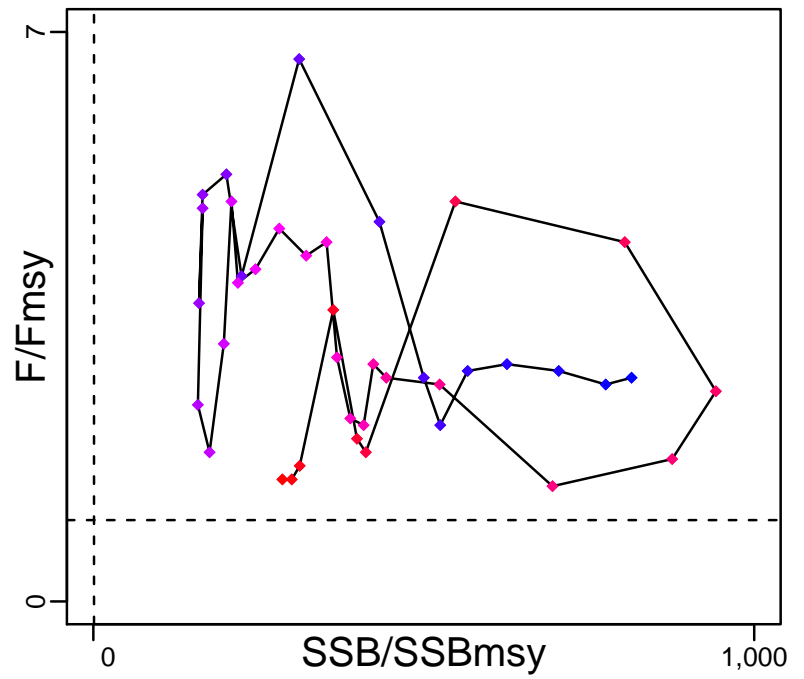
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2009 | 2760 | - | - |
| SSB | SSB-MT | 2015 | 910,525 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 151,485 | - | 1 |
| F | F-1/yr | 2015 | 0.18 | - | - |
| ER | ER-calc-ratio | 2009 | 0.222 | - | - |
| TC | TC-MT | 2009 | 665 | | |
| TL | TL-MT | 2009 | 647 | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2009 | 0.75 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-MT | 2015 | 286.059 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2015 | 1.5 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-calc-ratio | 2009 | 1.62 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Red grouper South Atlantic [RGROUPSATL]

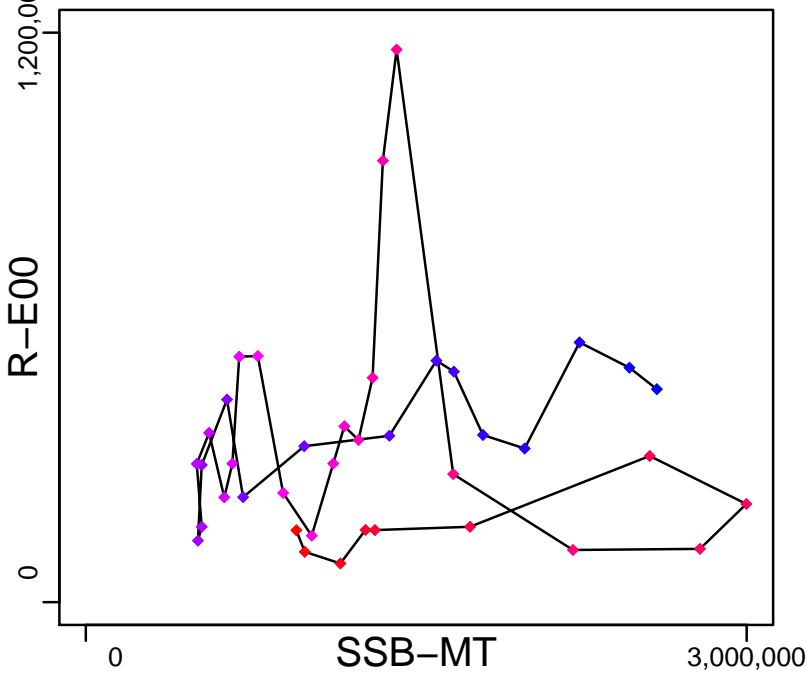
Kobe MSYpref (1975–2015–SISIMP2021)



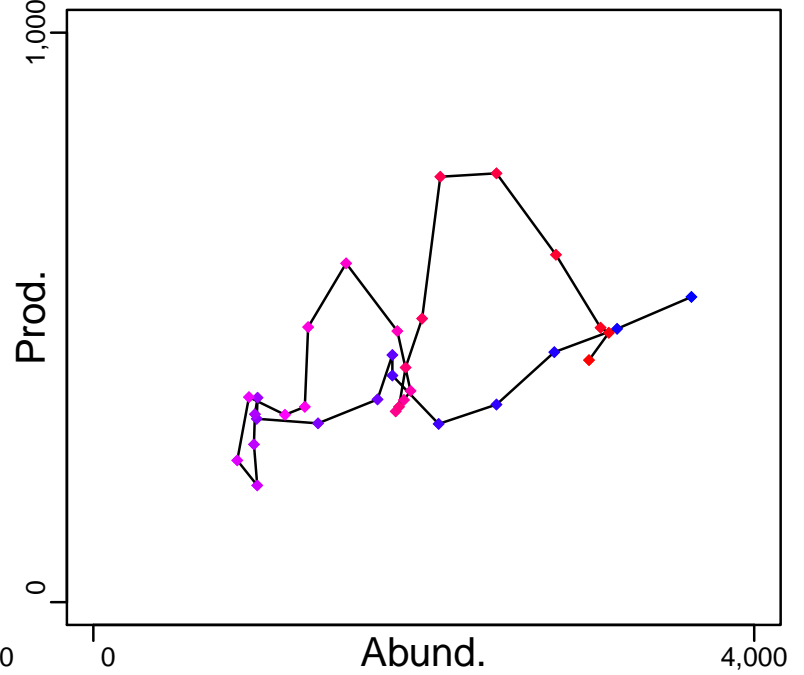
Kobe MGTpref (1975–2015–SISIMP2021)



Spawner Recruit (1975–2015–SISIMP2021)



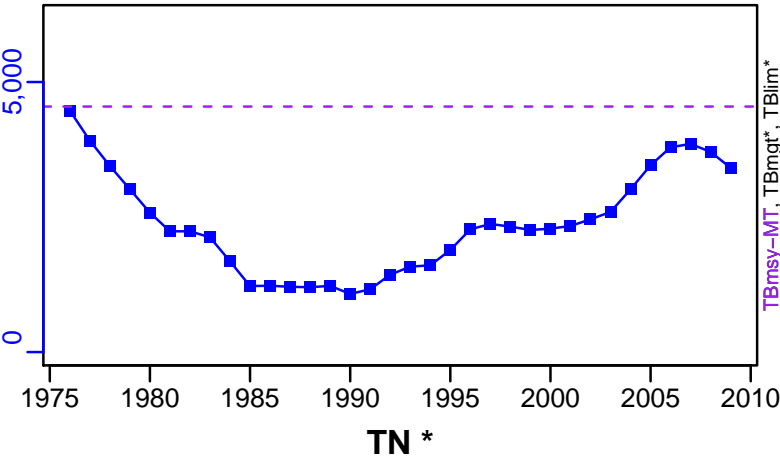
Production (1976–2009–HIVELY)



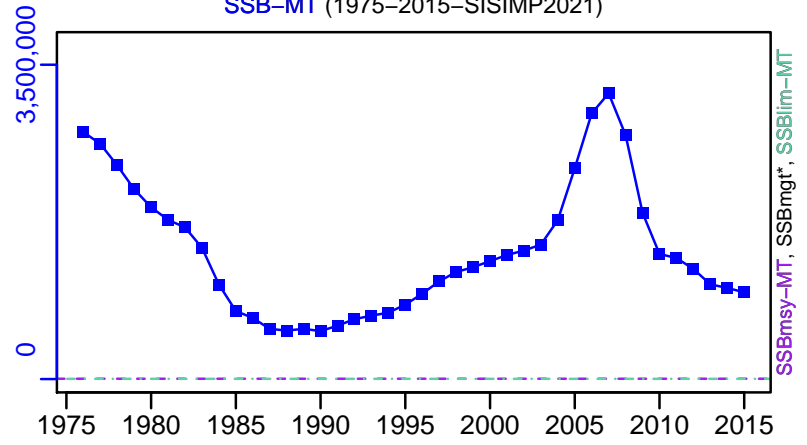
◆ Start Year ◆ End Year * No Data

Red grouper South Atlantic [RGROUPSATL]

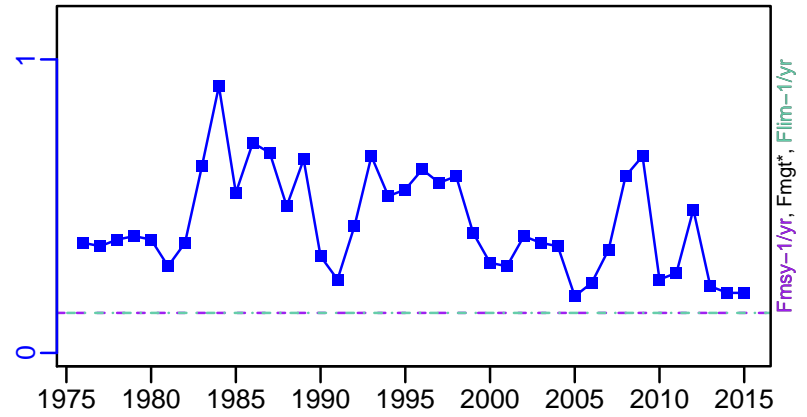
TB-MT (1976–2009–HIVELY)



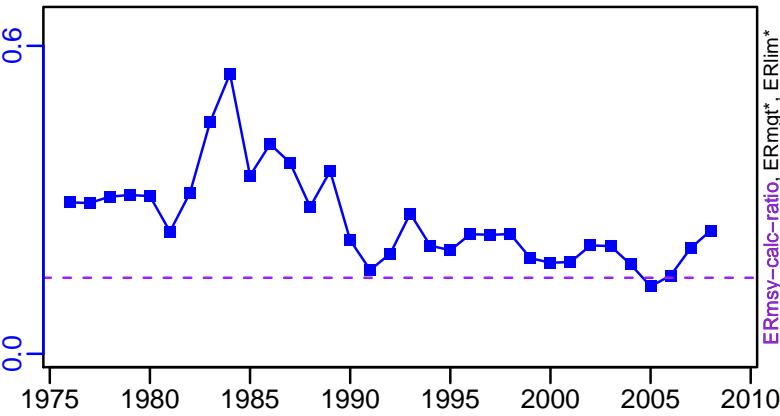
SSB-MT (1975–2015–SISIMP2021)



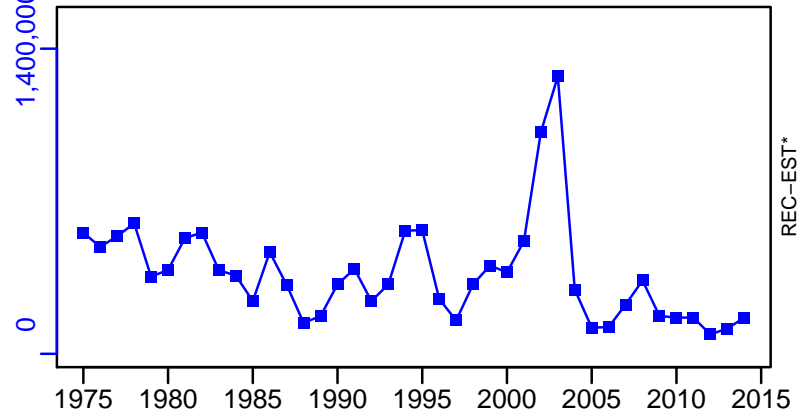
F-1/yr (1975–2015–SISIMP2021)



ER-calc-ratio (1976–2009–HIVELY)

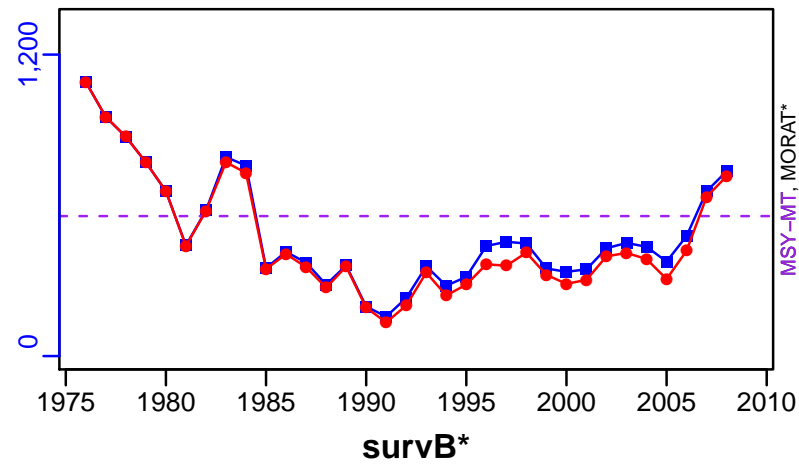


R-E00 (1975–2015–SISIMP2021)



Red grouper South Atlantic [RGROUPSATL]

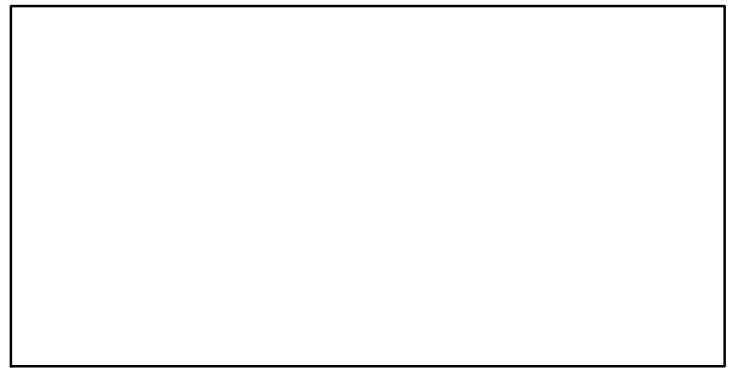
TC-MT, TL-MT, RecC* (1976–2009–HIVELY)



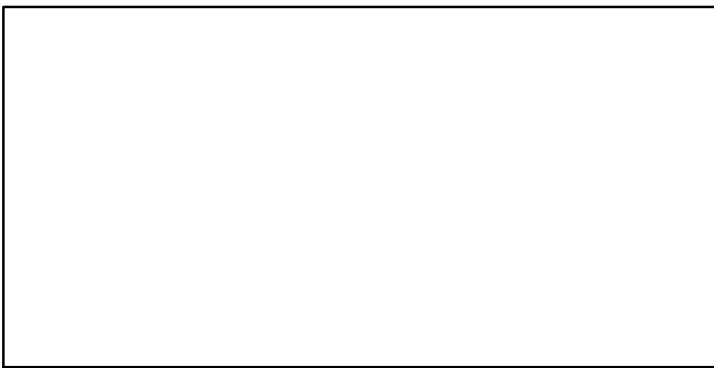
TAC*, Cpair*, Cadv*



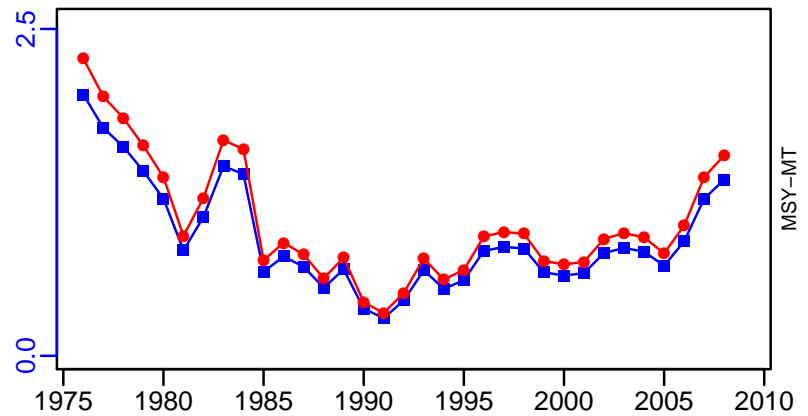
CPUE*



EFFORT*



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



Red porgy Southern Atlantic coast [RPORGYSATLC]

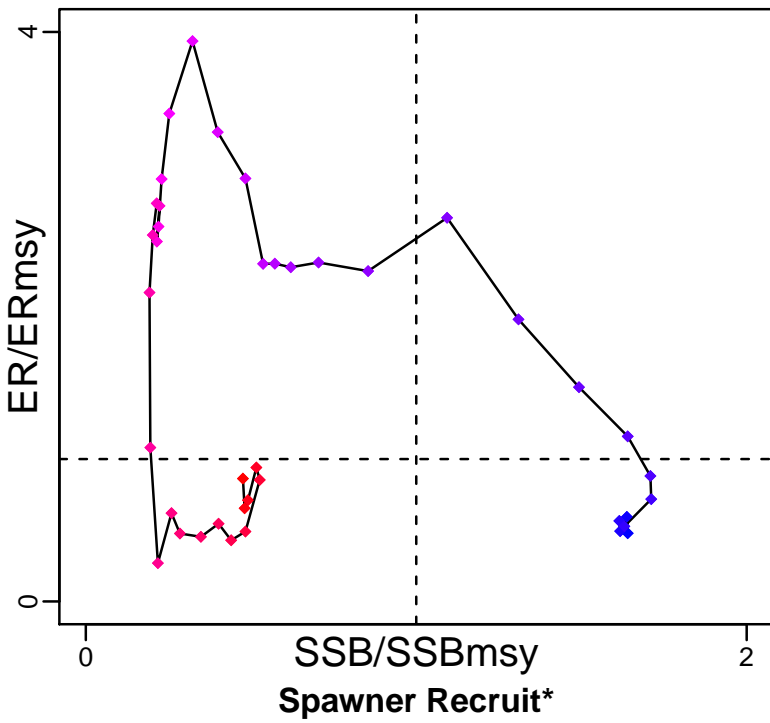
| Metadata | |
|-----------------------------|---|
| Scientific Name | Pagrus pagrus |
| Current Assess ID | SEFSC-RPORGYSATLC-1972-2012-HIVELY |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

| Reference Points | | | |
|------------------|------------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2012 | 4254 |
| SSBmsy | SSBmsy-MT | 2012 | 3933 |
| Fmsy | Fmsy-1/yr | 2012 | 0.17 |
| ERmsy | ERmsy-calc-ratio | 2012 | 0.089 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2012 | 378 |
| M | M-1/yr | 2012 | 0.23 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

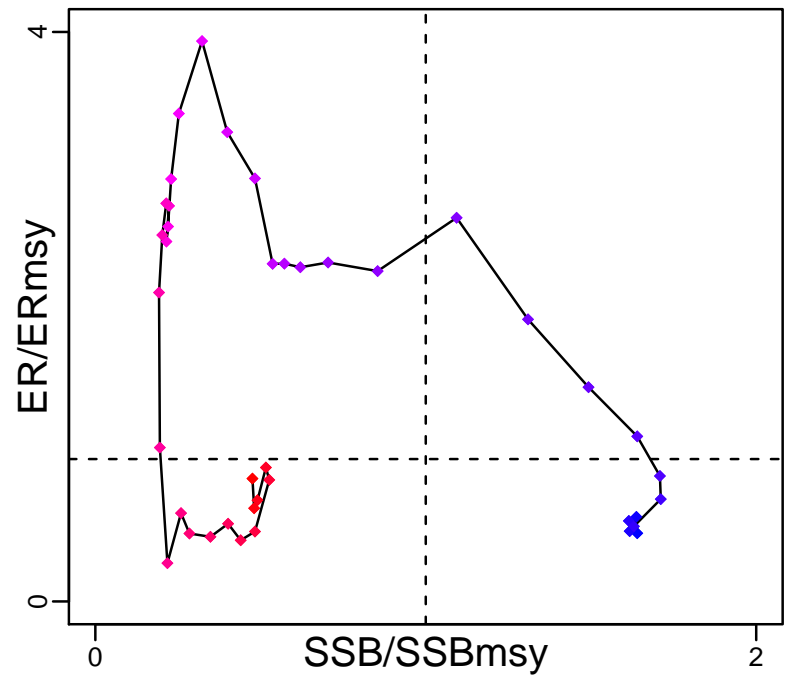
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|------------|------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2012 | 2020 | - | - |
| SSB | SSB-MT | 2012 | 1850 | Both | 3+ |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2012 | 0.132 | - | - |
| ER | ER-calc-ratio | 2012 | 0.077 | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2012 | 155 | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2012 | 0.475 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-MT | 2012 | 0.47 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2012 | 0.776 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-calc-ratio | 2012 | 0.863 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Red porgy Southern Atlantic coast [RPORGYSATLC]

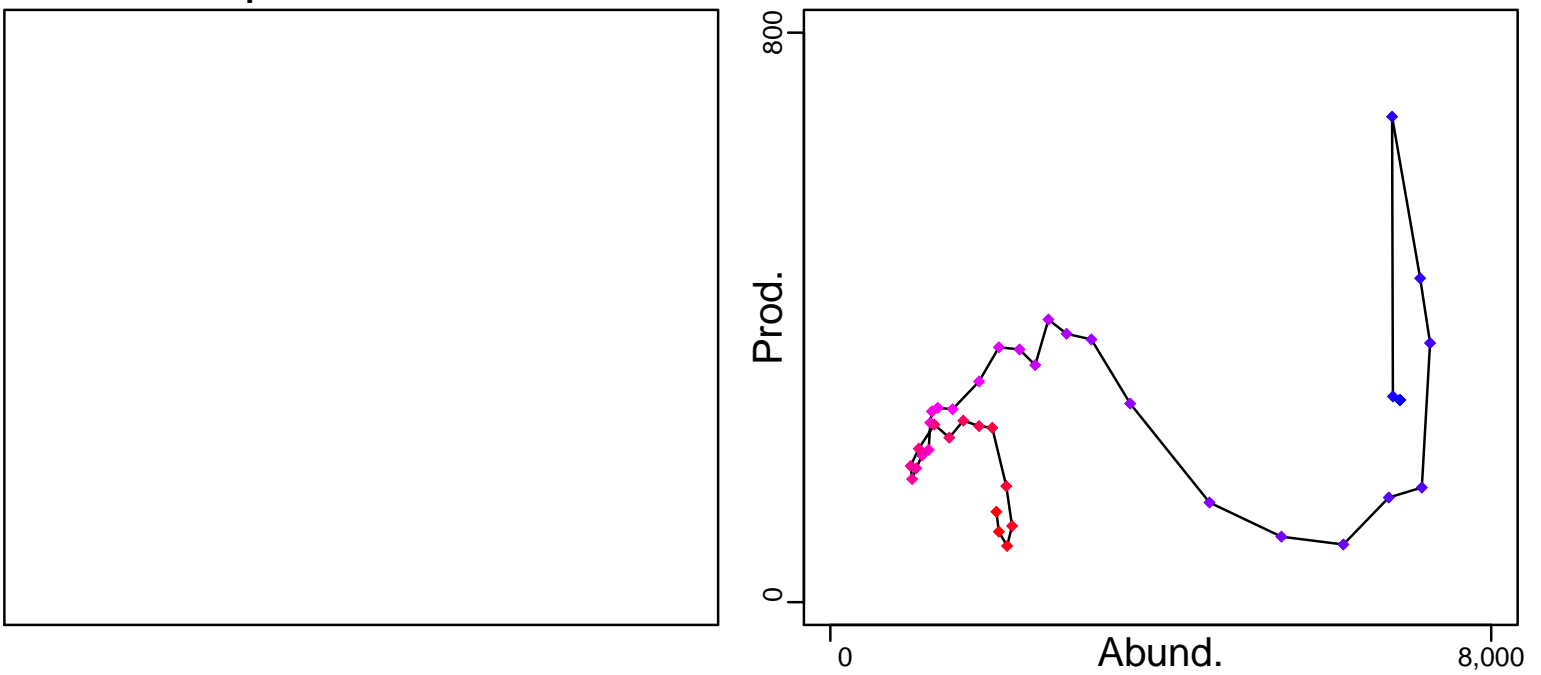
Kobe MSYpref (1972–2012–HIVELY)



Kobe MGTpref (1972–2012–HIVELY)



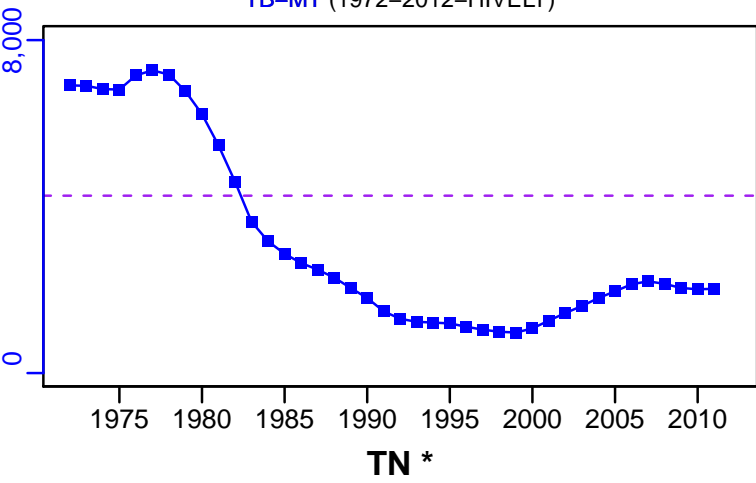
Production (1972–2012–HIVELY)



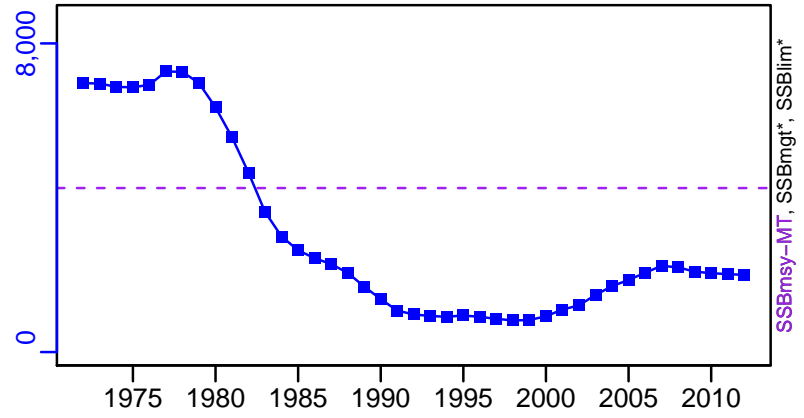
◆ Start Year ◆ End Year * No Data

Red porgy Southern Atlantic coast [RPORGYSATLC]

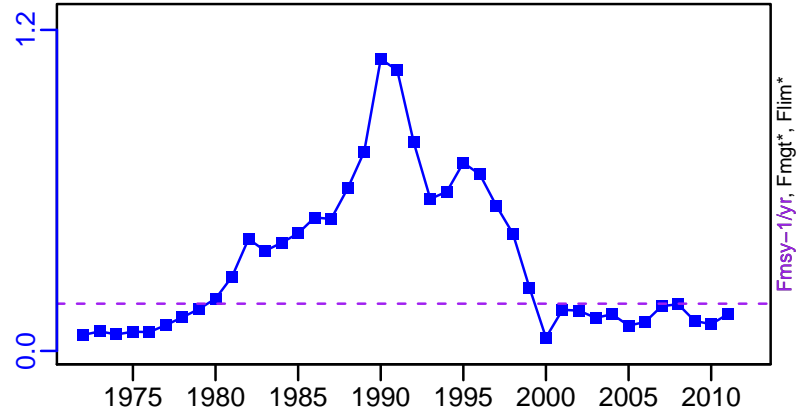
TB-MT (1972-2012-HIVELY)



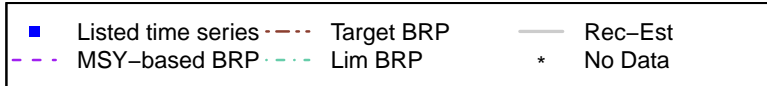
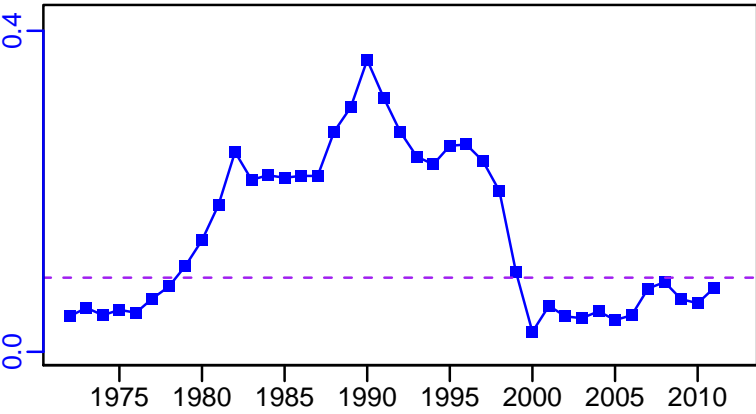
SSB-MT (1972-2012-HIVELY)



F-1/yr (1972-2012-HIVELY)



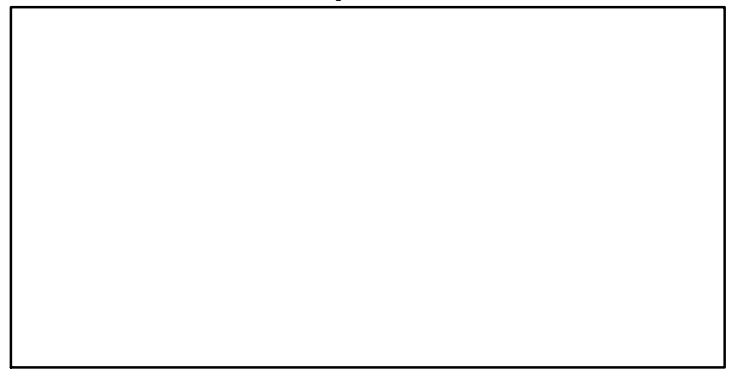
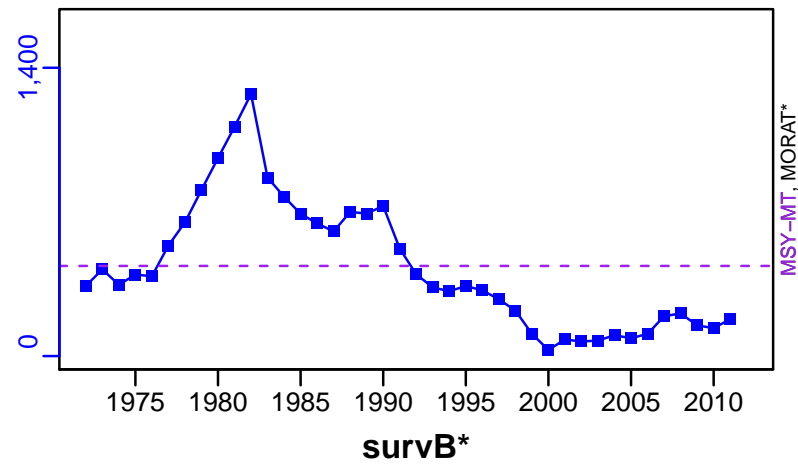
ER-calc-ratio (1972-2012-HIVELY)



Red porgy Southern Atlantic coast [RPORGYSATLC]

TL-MT, TC*, RecC* (1972-2012-HIVELY)

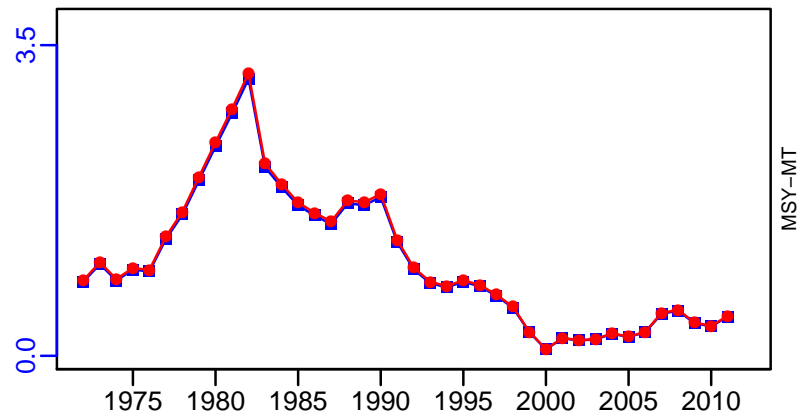
TAC*, Cpair*, Cadv*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1972-2012-HIVELY)



Red snapper Gulf of Mexico [RSNAPGM]

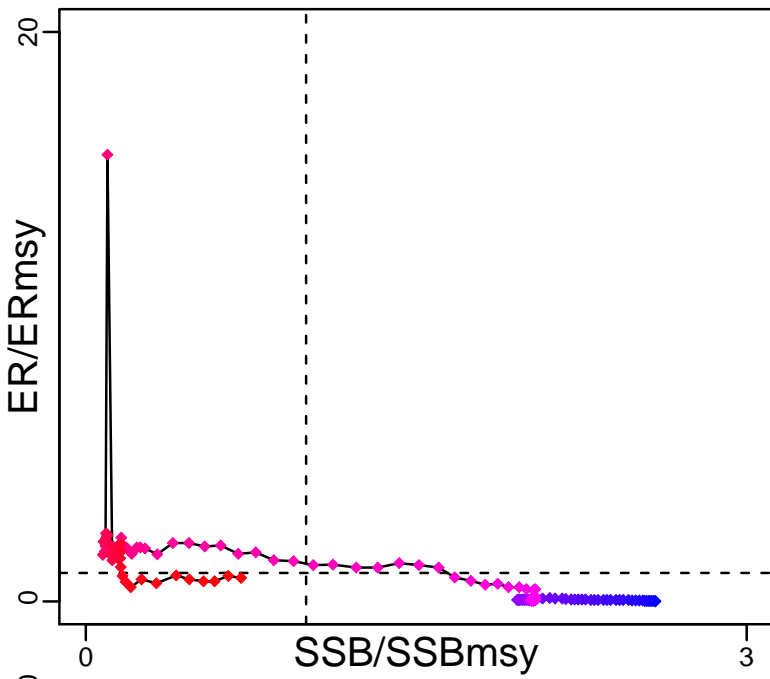
| Metadata | |
|-----------------------------|---|
| Scientific Name | Lutjanus campechanus |
| Current Assess ID | SEFSC-RSNAPGM-1872-2016-SISIMP2021 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

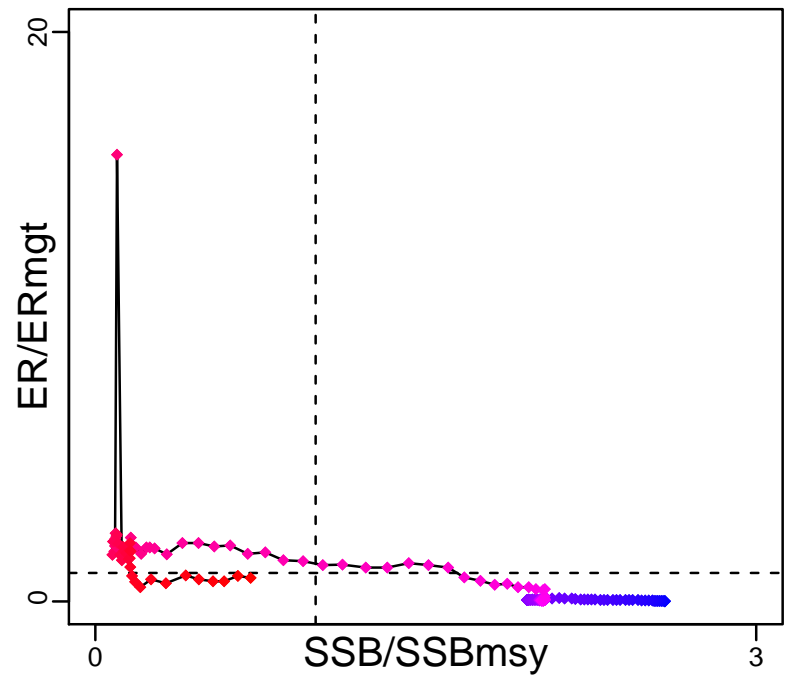
| Time Series | | | | | |
|-------------------|----------------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2013 | 64,100 | - | 0+ |
| SSB | SSB-E00eggs | 2016 | 8.67×10^{14} | - | - |
| TN | - | - | - | - | - |
| R |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

Red snapper Gulf of Mexico [RSNAPGM]

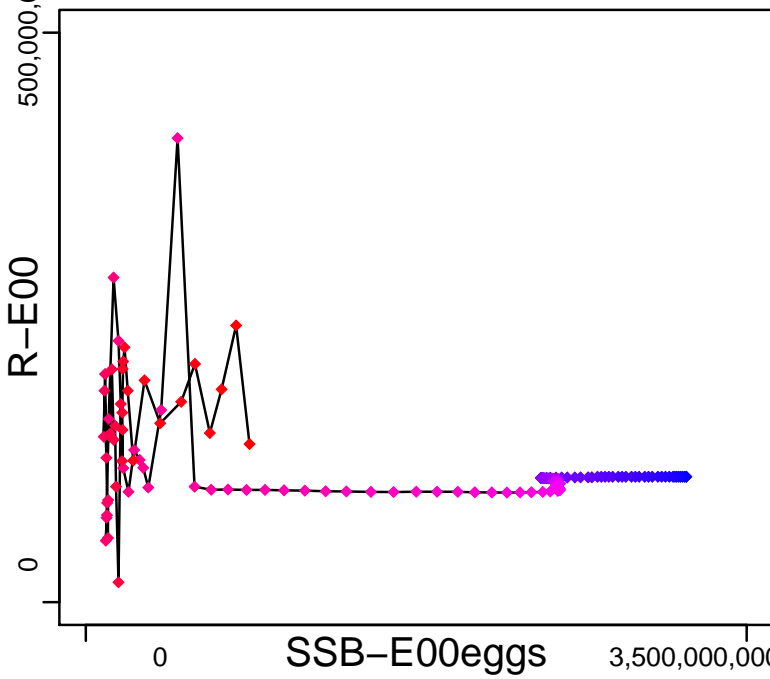
Kobe MSYpref (1872–2016–SISIMP2021)



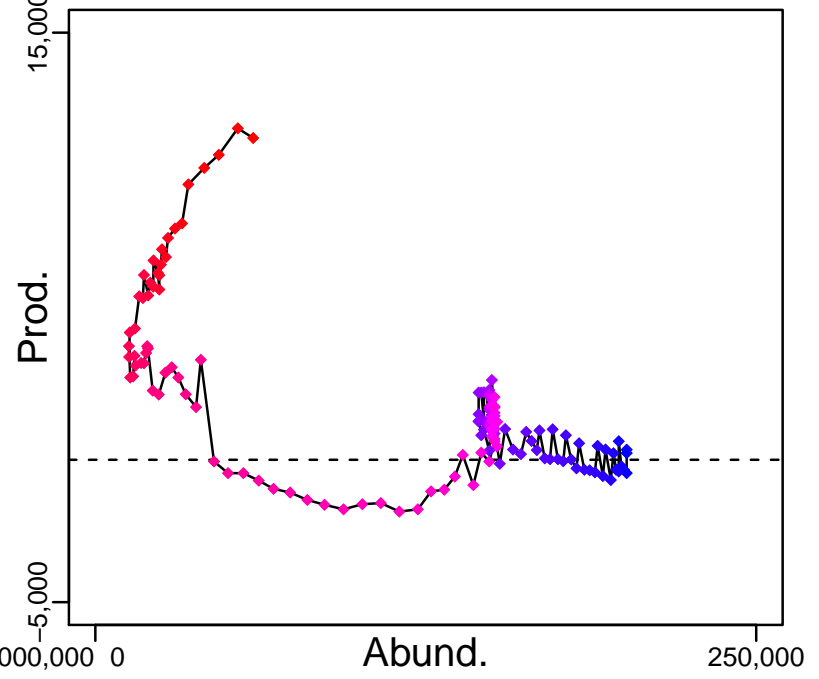
Kobe MGTpref (1872–2016–SISIMP2021)



Spawner Recruit (1872–2016–SISIMP2021)



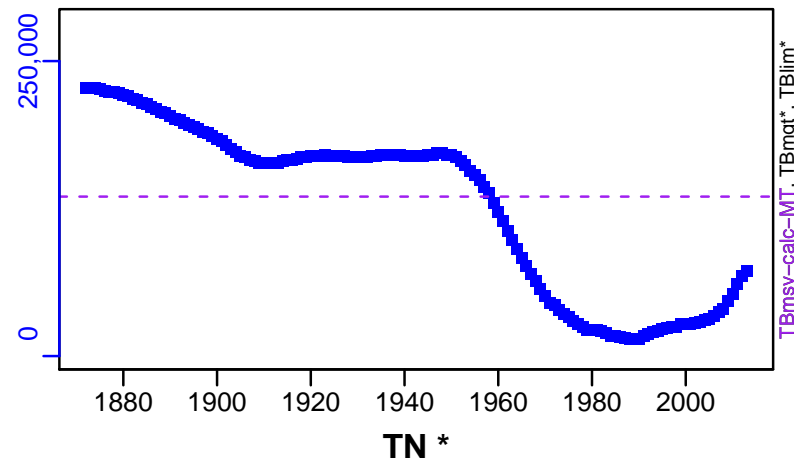
Production (1872–2013–SISIMP2016)



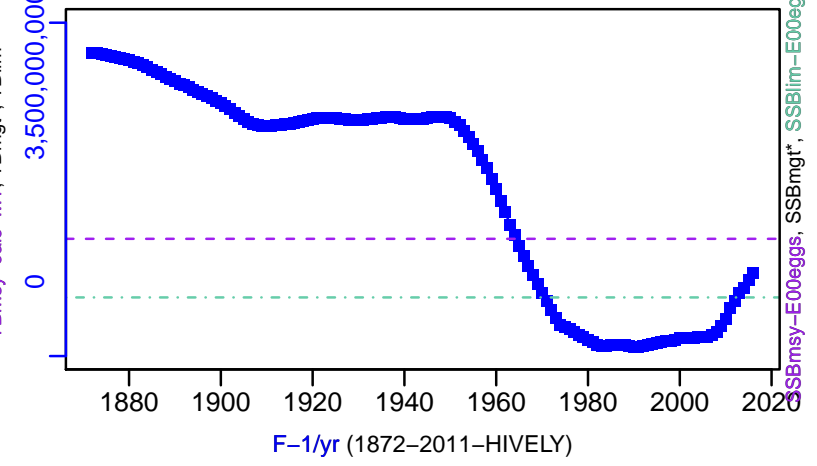
◆ Start Year ◆ End Year * No Data

Red snapper Gulf of Mexico [RSNAPGM]

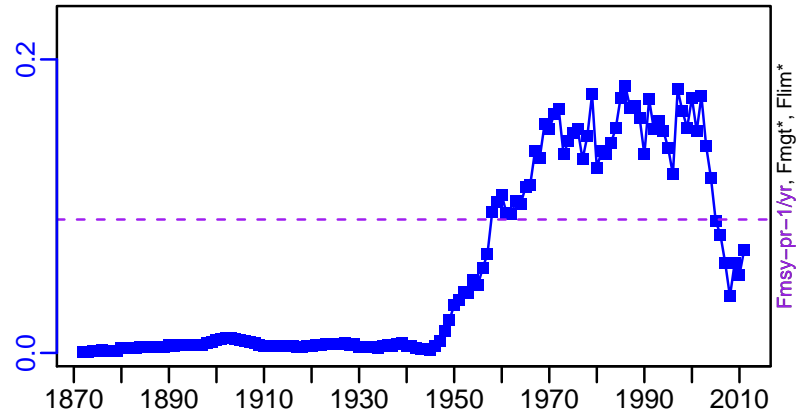
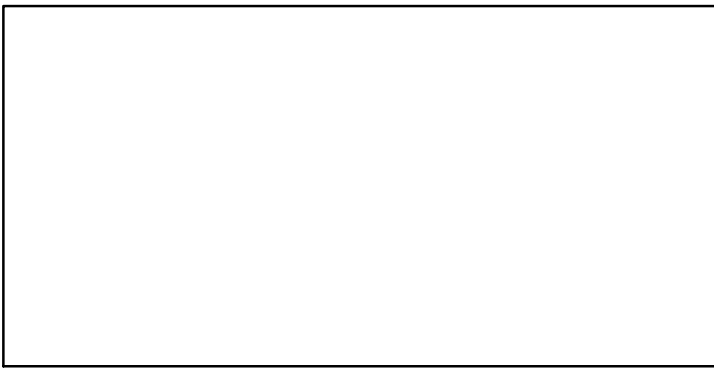
TB-MT (1872–2013–SISIMP2016)



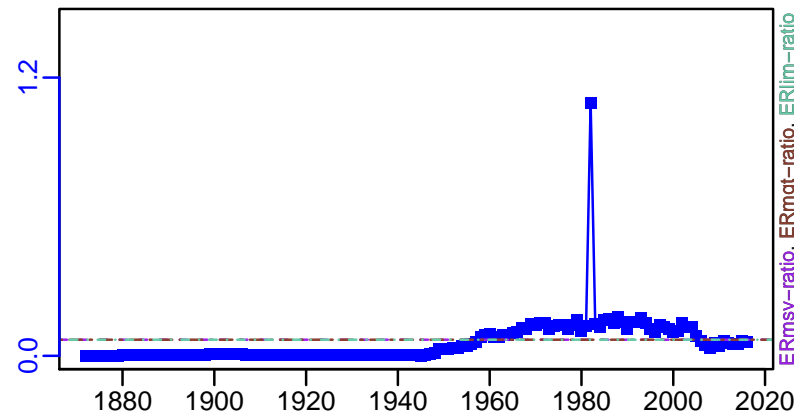
SSB-E00eggs (1872–2016–SISIMP2021)



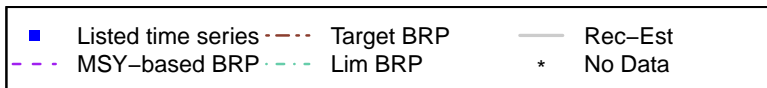
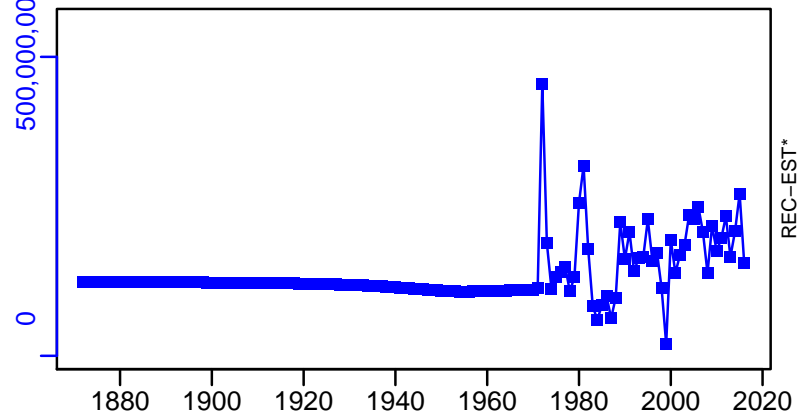
F-1/yr (1872–2011–HIVELY)



ER-ratio (1872–2016–SISIMP2021)



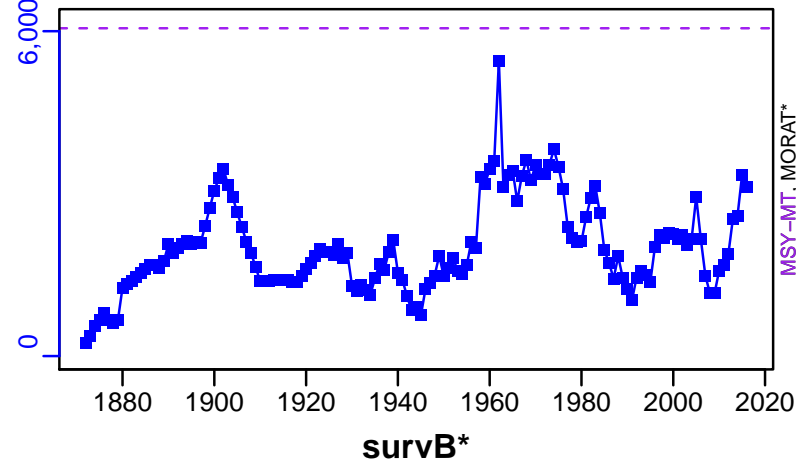
R-E00 (1872–2016–SISIMP2021)



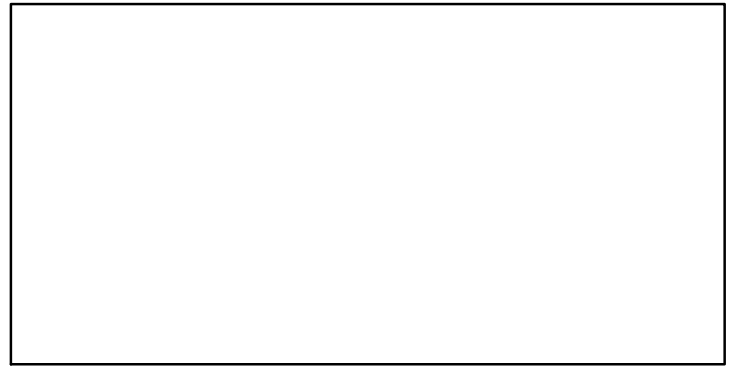
Red snapper Gulf of Mexico [RSNAPGM]

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

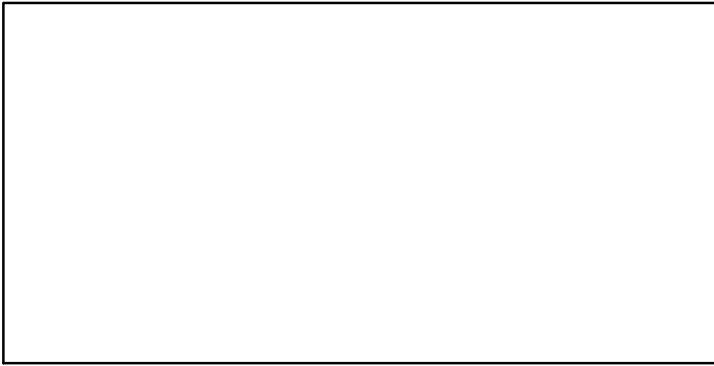
TAC*, Cpair*, Cadv*



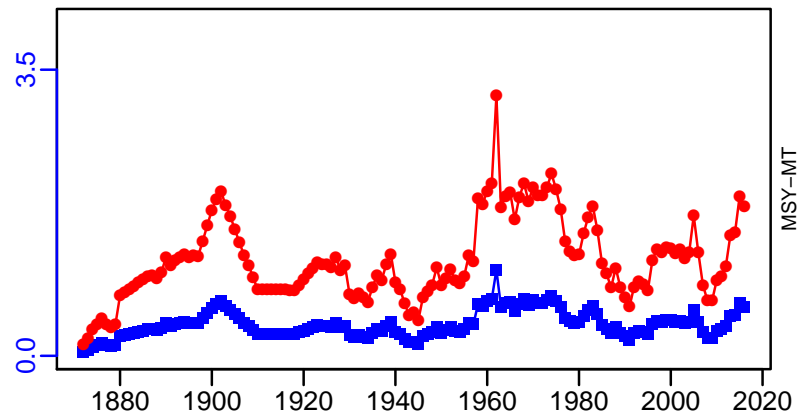
CPUE*



EFFORT*



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



Red snapper Southern Atlantic coast [RSNAPSATLC]

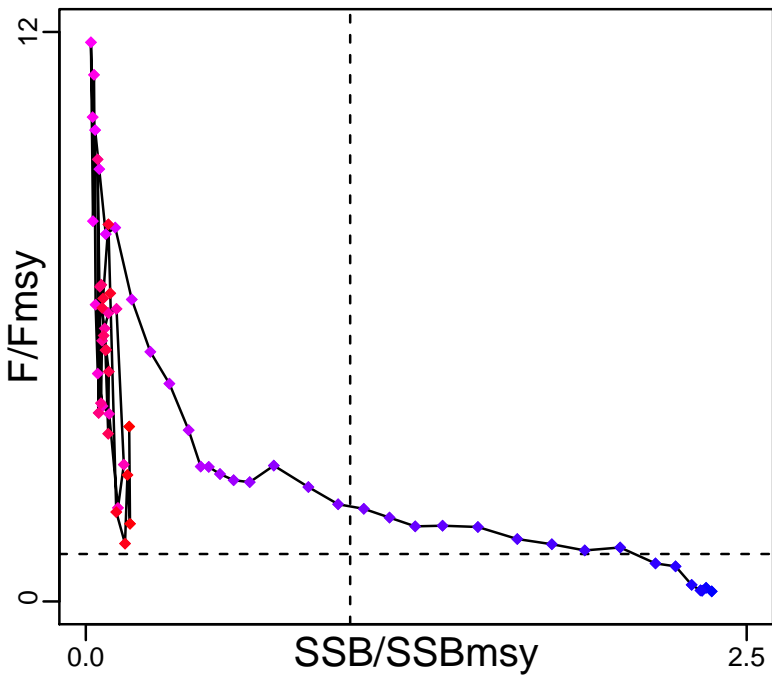
| Metadata | |
|-----------------------------|---|
| Scientific Name | Lutjanus campechanus |
| Current Assess ID | SEFSC-RSNAPSATLC-1950-2014-SISIMP2016 |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2014, 2010 |

| Reference Points | | | |
|------------------|------------------|-----------|-----------------------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2010 | 13,632 |
| SSBmsy | SSBmsy-E00eggs | 2014 | 3.29×10^{13} |
| Fmsy | Fmsy-1/yr | 2014 | 0.146 |
| ERmsy | ERmsy-calc-ratio | 2010 | 0.061 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2014 | 195 |
| M | M-1/yr | 2010 | 0.08 |
| TBlim | - | - | - |
| SSBlim | SSBlim-E00eggs | 2014 | 2.46×10^{13} |
| Flim | Flim-1/yr | 2014 | 0.146 |
| ERlim | - | - | - |

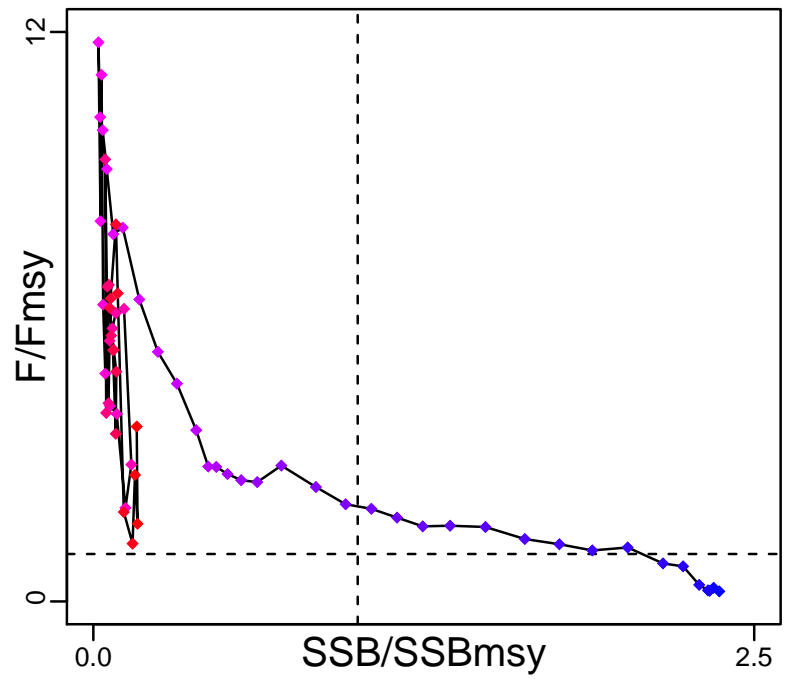
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|----------------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2010 | 1430 | - | - |
| SSB | SSB-E00eggs | 2014 | 5.4×10^{12} | Females | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 942,000 | - | 1 |
| F | F-1/yr | 2014 | 0.538 | - | - |
| ER | ER-calc-ratio | 2010 | 0.335 | - | - |
| TC | TC-MT | 2014 | 330 | | |
| TL | TL-MT | 2010 | 653 | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2010 | 0.105 | | |
| SSB/SSBmsy | SSB-E00eggs/SSBmsy-E00eggs | 2014 | 0.164 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2014 | 3.685 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-calc-ratio | 2010 | 5.464 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Red snapper Southern Atlantic coast [RSNAPSATLC]

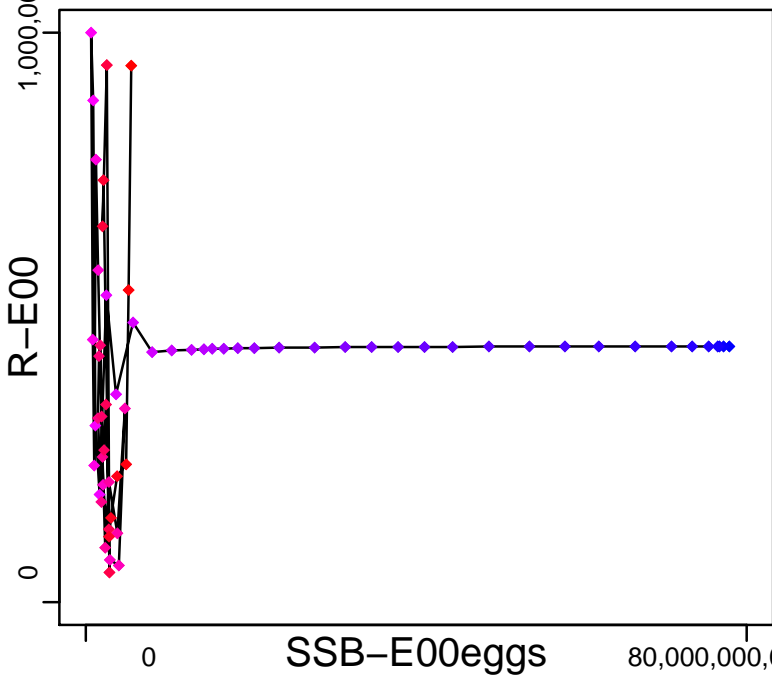
Kobe MSYpref (1950–2014–SISIMP2016)



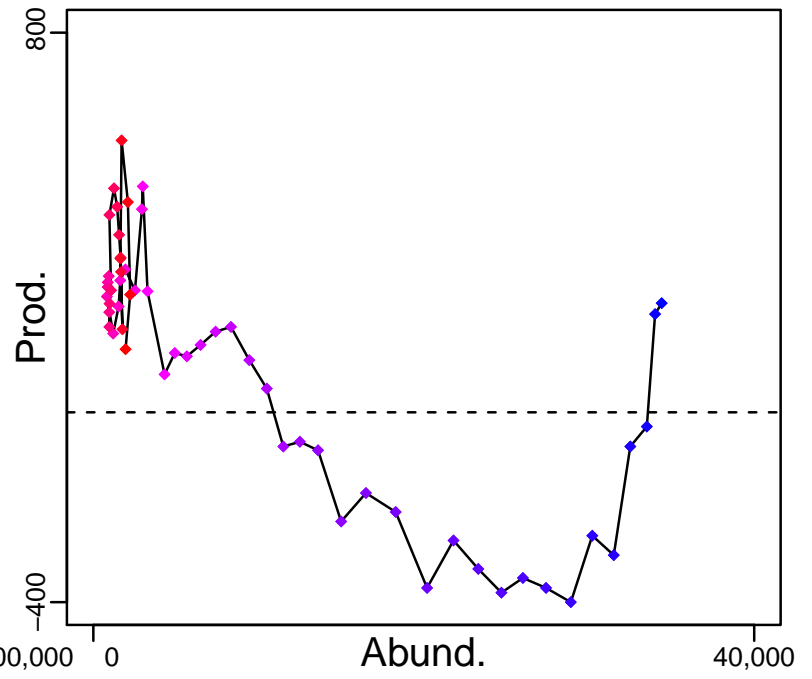
Kobe MGTpref (1950–2014–SISIMP2016)



Spawner Recruit (1950–2014–SISIMP2016)



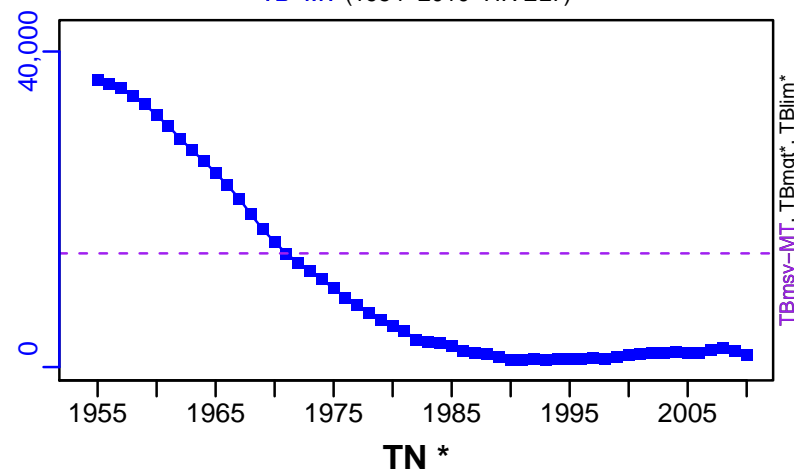
Production (1954–2010–HIVELY)



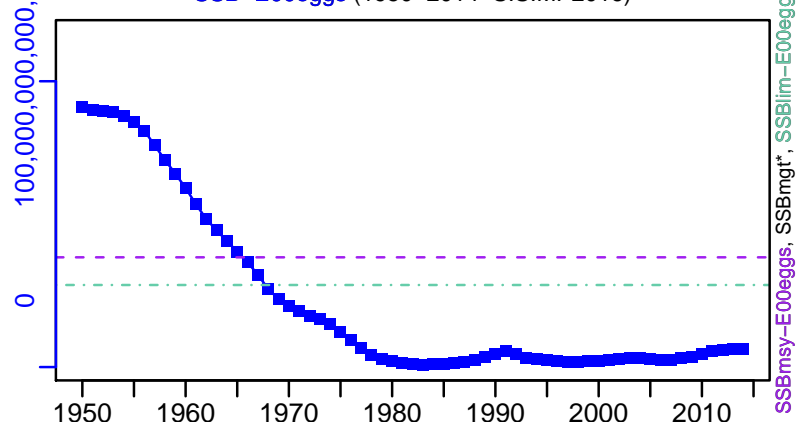
◆ Start Year ◆ End Year * No Data

Red snapper Southern Atlantic coast [RSNAPSATLC]

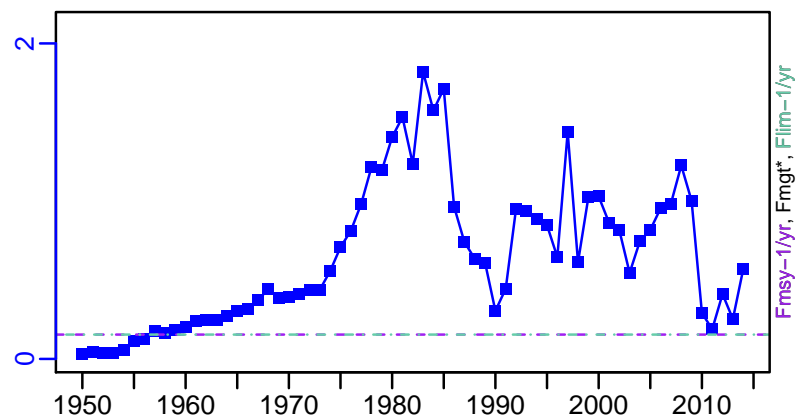
TB-MT (1954-2010-HIVELY)



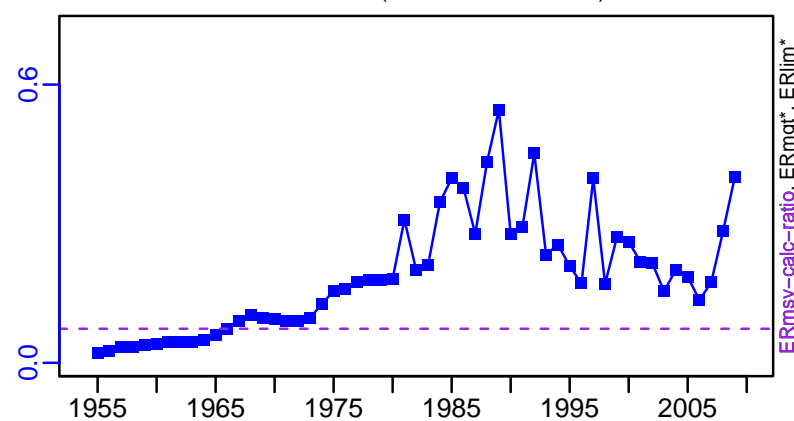
SSB-E00eggs (1950-2014-SISIMP2016)



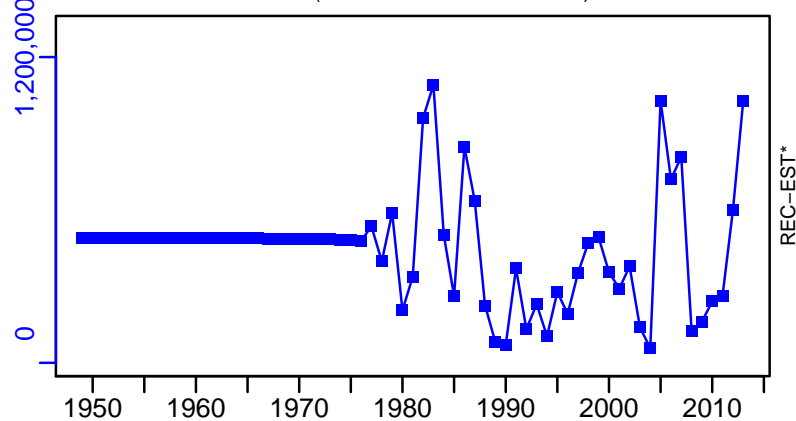
F-1/yr (1950-2014-SISIMP2016)



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

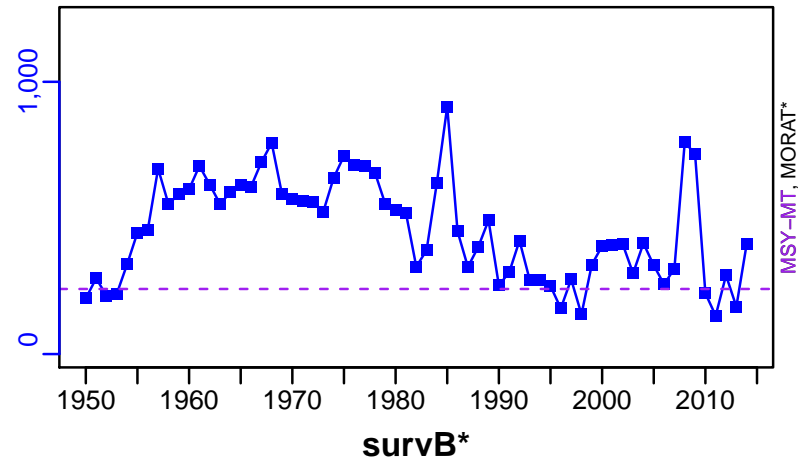


R-E00 (1950-2014-SISIMP2016)



Red snapper Southern Atlantic coast [RSNAPSATLC]

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



TAC*, Cpair*, Cadv*



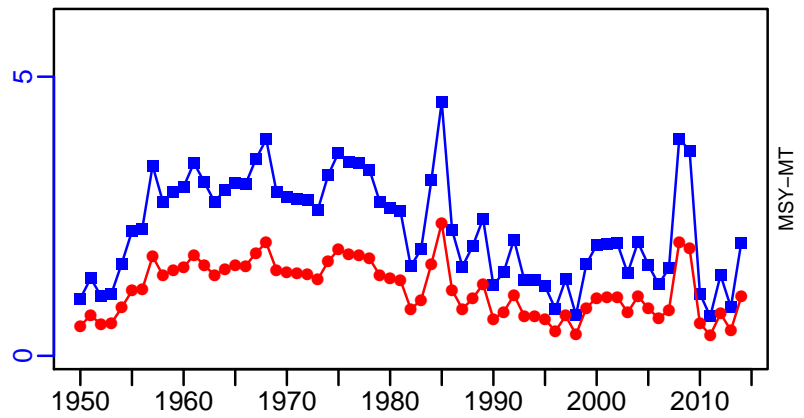
CPUE*



EFFORT*



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



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

Sandbar shark Atlantic [SBARSHARATL]

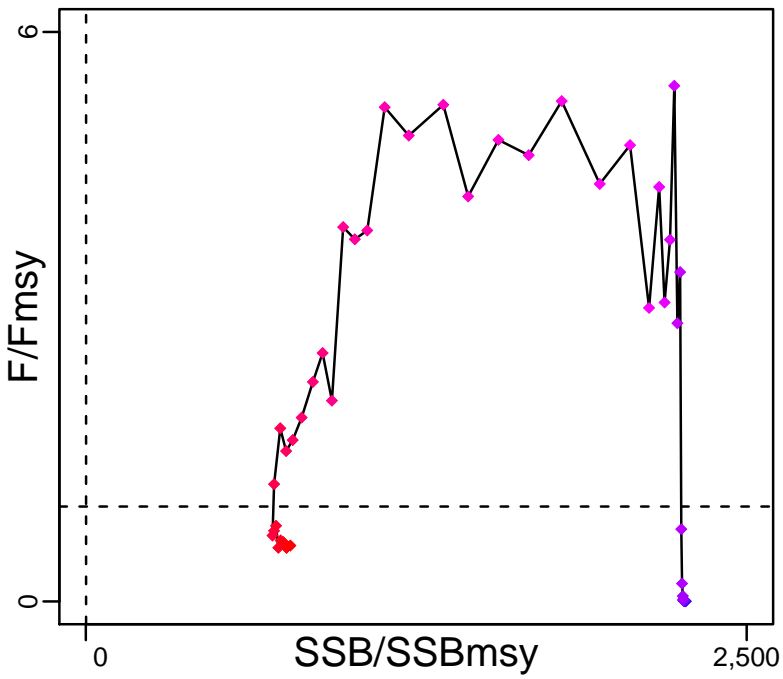
| Metadata | |
|-----------------------------|---|
| Scientific Name | Carcharhinus plumbeus |
| Current Assess ID | SEFSC-SBARSHARATL-1960-2015-SISIMP2021 |
| Area | Atlantic |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

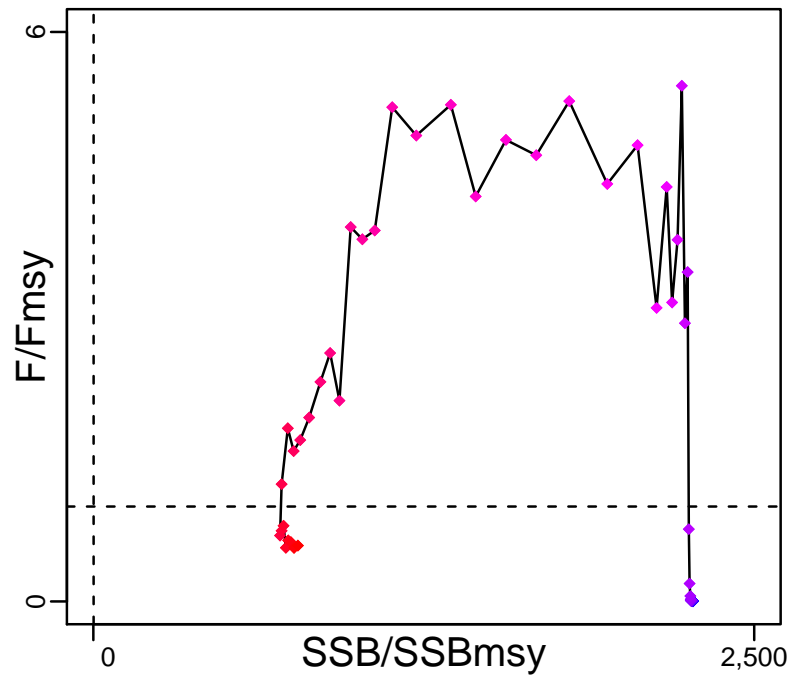
| Time Series | | | | | |
|-------------------|--------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 37,620 | - | - |
| SSB | SSB-E00 | 2015 | 527,000 | - | - |
| TN | TN-E00 | 2009 | 1,540,000 | - | - |
| R | R-E00 | 2015 | 233,000 | - | 0 |
| F | F-1/yr | 2015 | 0.041 | - | - |
| ER | ER-calc-ratio | 2015 | 0.005 | - | - |
| TC | TC-MT | 2015 | 203 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-E00/SSBmsy-E00 | 2015 | 773.862 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2015 | 0.589 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Sandbar shark Atlantic [SBARSHARATL]

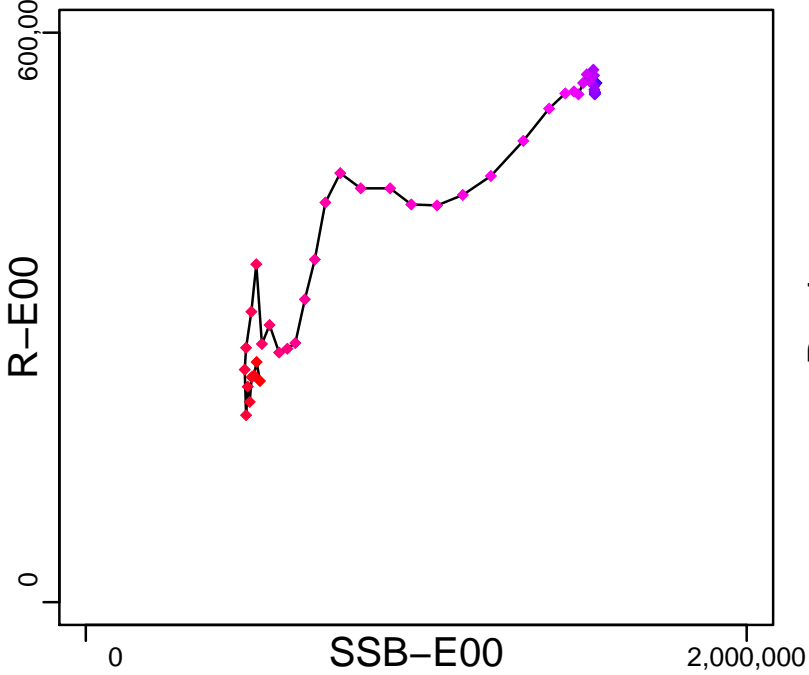
Kobe MSYpref (1960–2015–SISIMP2021)



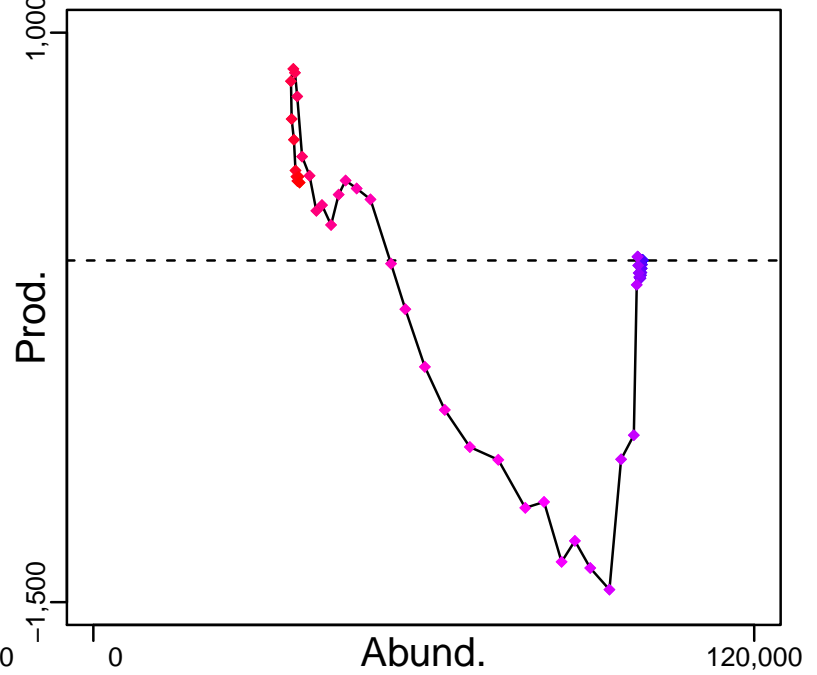
Kobe MGTpref (1960–2015–SISIMP2021)



Spawner Recruit (1960–2015–SISIMP2021)



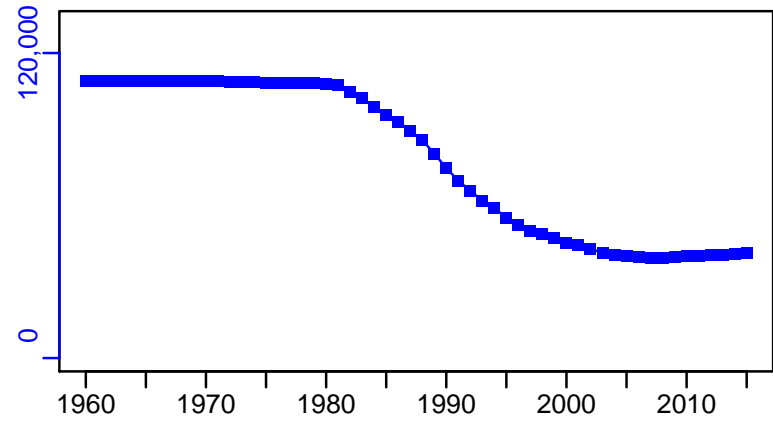
Production (1960–2015–SISIMP2021)



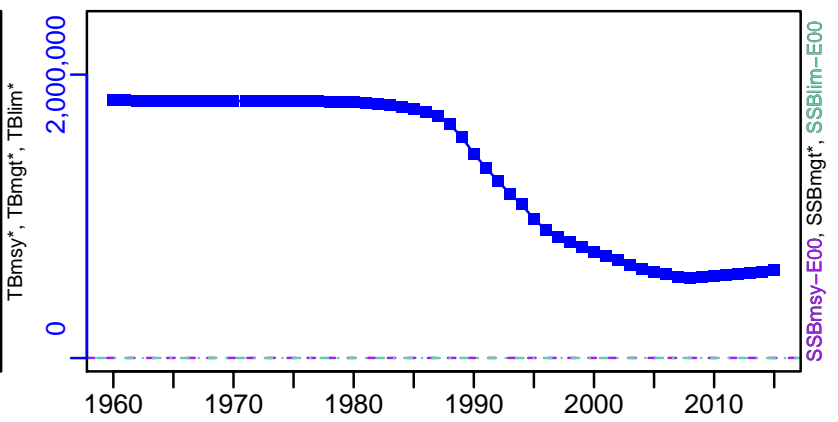
◆ Start Year ◆ End Year * No Data

Sandbar shark Atlantic [SBARSHARATL]

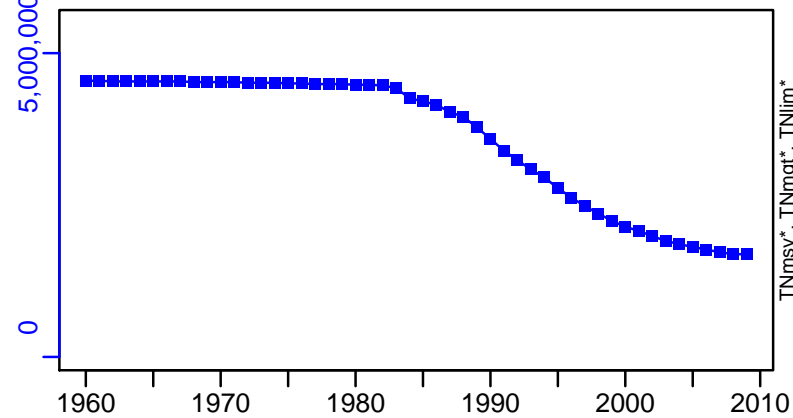
TB-MT (1960–2015–SISIMP2021)



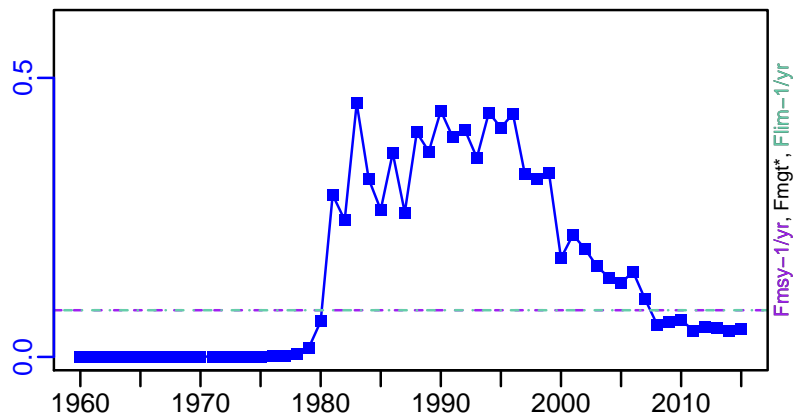
SSB-E00 (1960–2015–SISIMP2021)



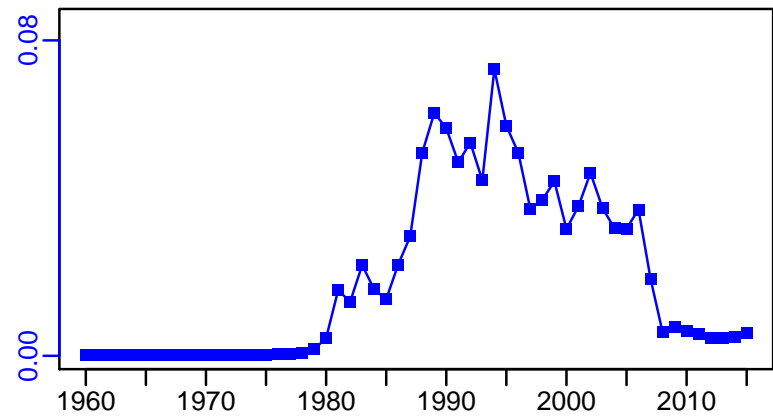
TN-E00 (1960–2009–SISIMP2016)



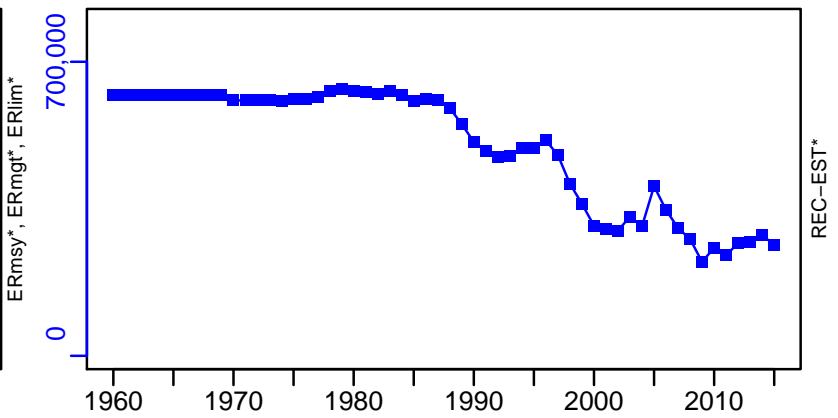
F-1/yr (1960–2015–SISIMP2021)



ER-calc-ratio (1960–2015–SISIMP2021)

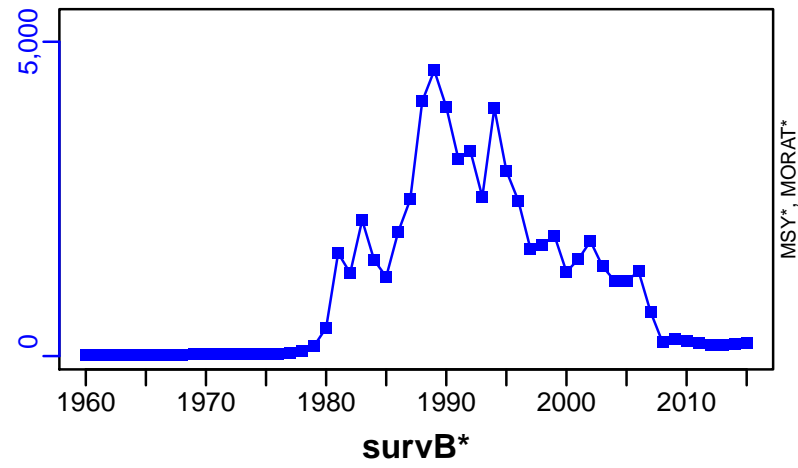


R-E00 (1960–2015–SISIMP2021)



Sandbar shark Atlantic [SBARSHARATL]

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



TAC*, Cpair*, Cadv*



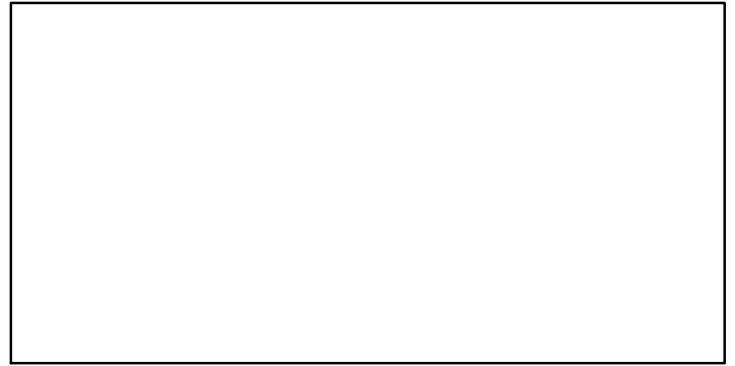
CPUE*



EFFORT*



CdivMSY*



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

Silk snapper Caribbean [SKSNAPCARIB]

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

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Silk snapper Caribbean [SKSNAPCARIB]

TB*



SSB*



TN *



F*



ER*



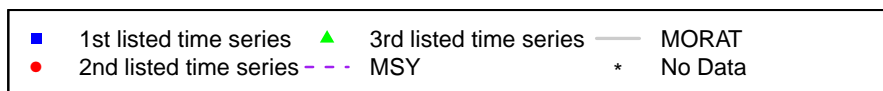
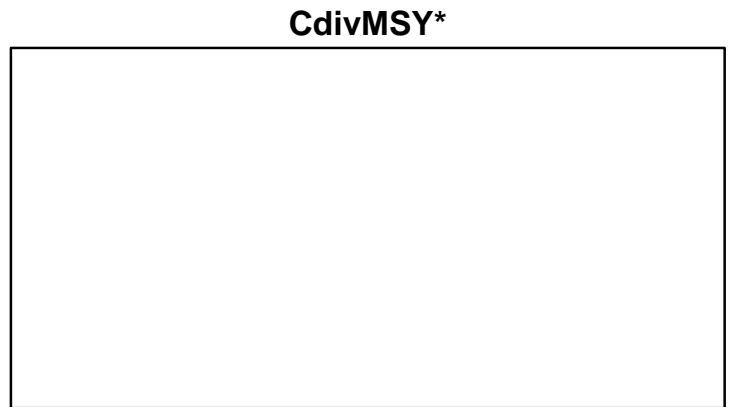
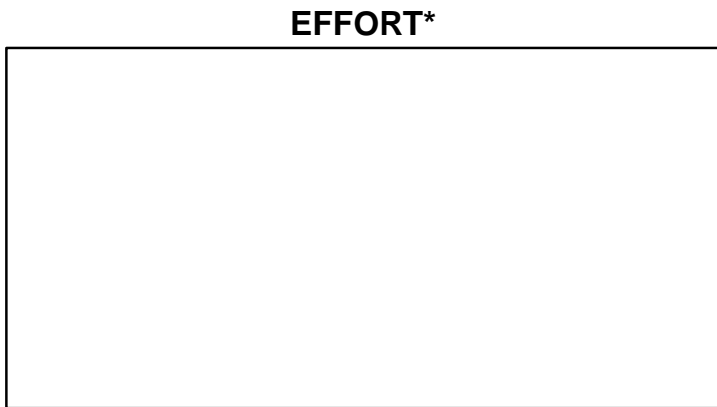
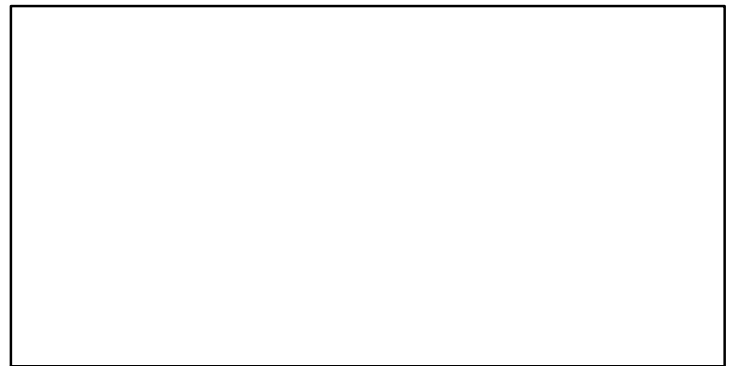
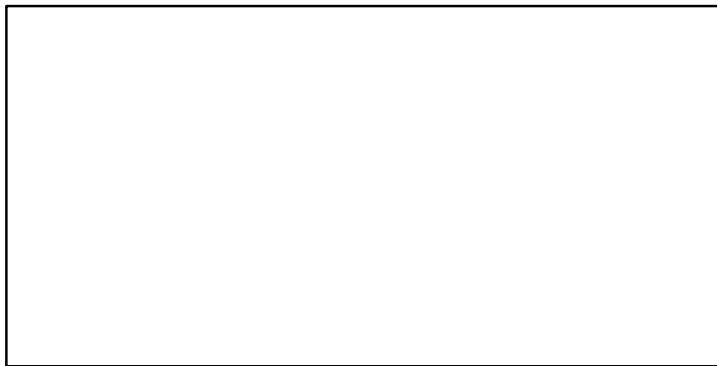
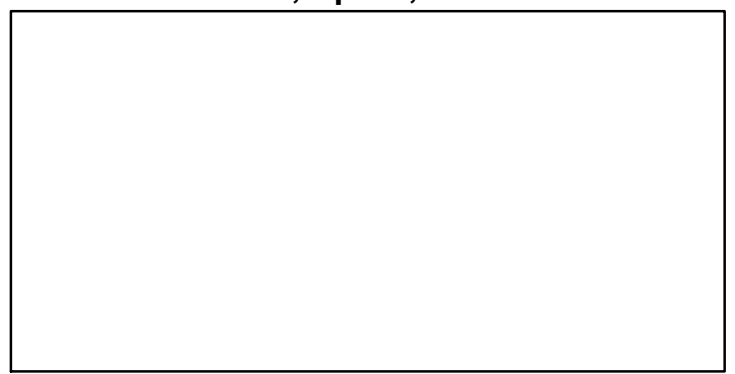
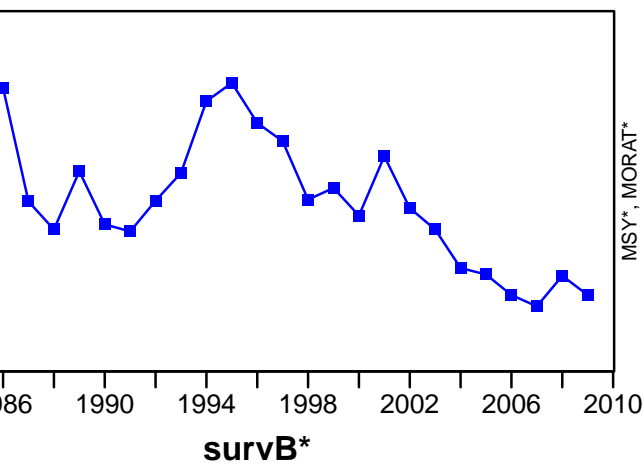
Recruits*



Silk snapper Caribbean [SKSNAPCARIB]

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

TAC*, Cpair*, Cadv*



Atlantic sharpnose shark Atlantic [SNOSESHARATL]

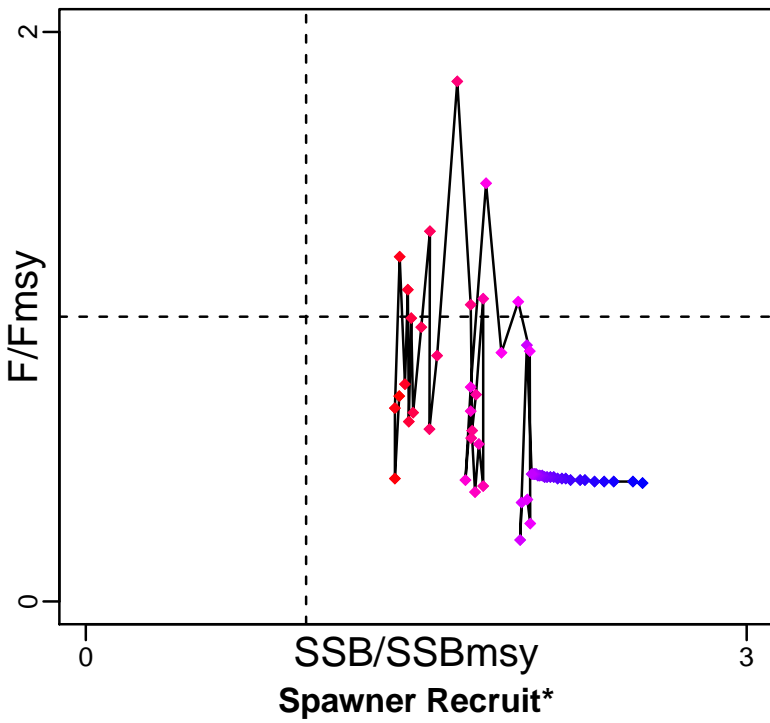
| Metadata | |
|-----------------------------|---|
| Scientific Name | Rhizoprionodon terraenovae |
| Current Assess ID | SEFSC-SNOSESHARATL-1950-2005-FAUCONNET |
| Area | Atlantic |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries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

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

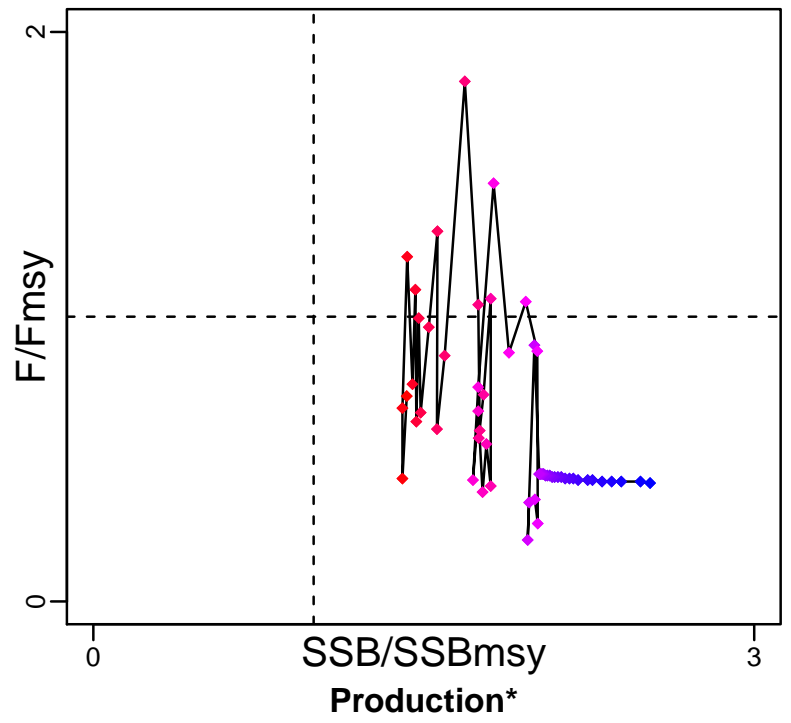
| Time Series | | | | | |
|-------------------|--------------------|-----------|------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSF-E00 | 2005 | 6,530,000 | Females | 2.5 |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr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

Atlantic sharpnose shark Atlantic [SNOSESHARATL]

Kobe MSYpref (1950–2005–FAUCONNET)



Kobe MGTpref (1950–2005–FAUCONNET)



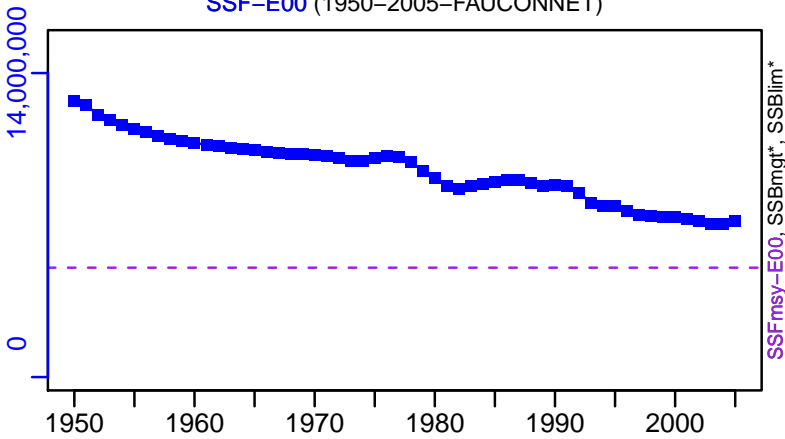
◆ Start Year ◆ End Year * No Data

Atlantic sharpnose shark Atlantic [SNOSESHARATL]

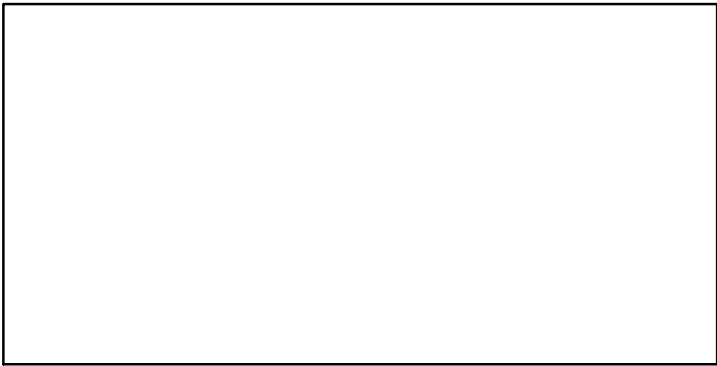
TB*



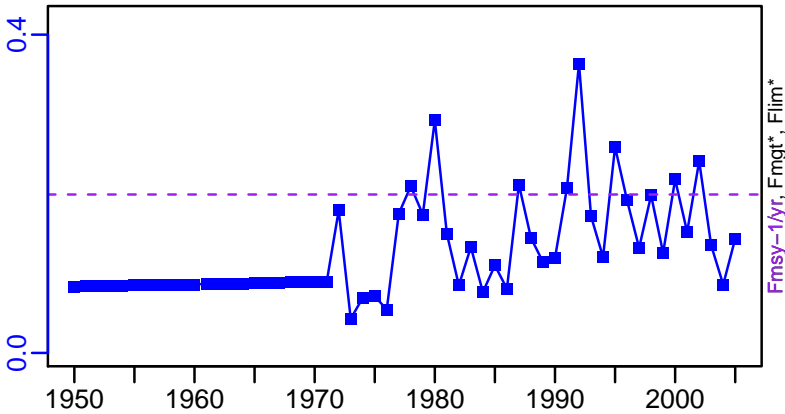
SSF-E00 (1950-2005-FAUCONNET)



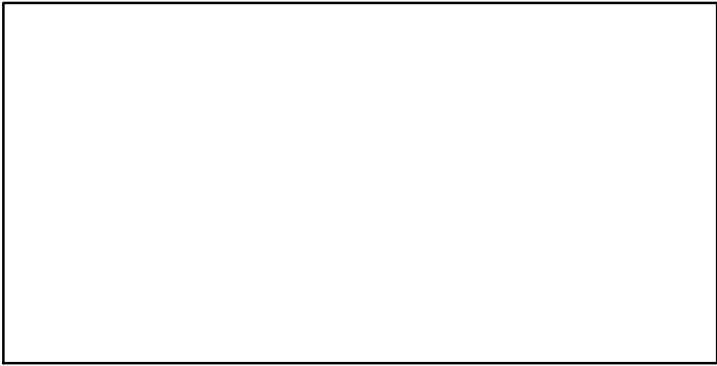
TN *



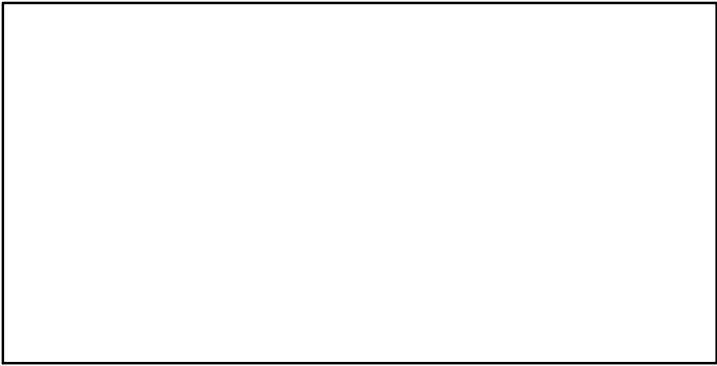
F-1/yr (1950-2005-FAUCONNET)



ER*

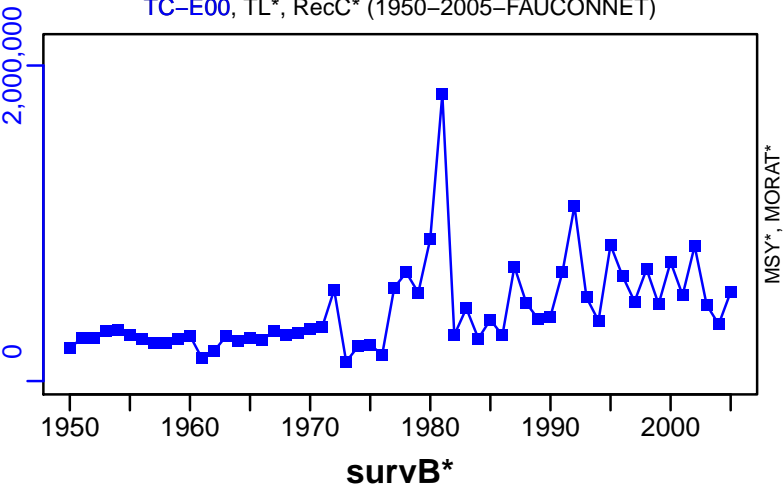


Recruits*



Atlantic sharpnose shark Atlantic [SNOSESHARATL]

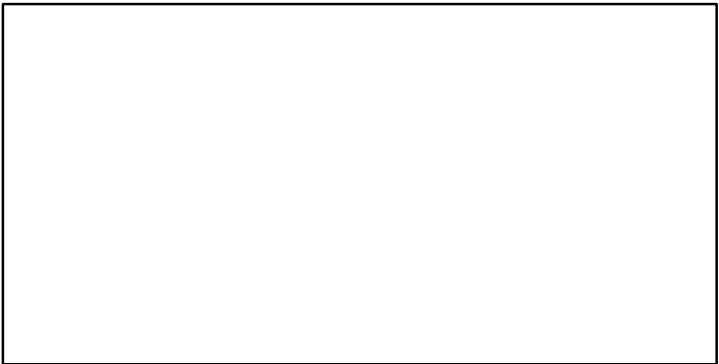
TC-E00, TL*, RecC* (1950–2005–FAUCONNET)



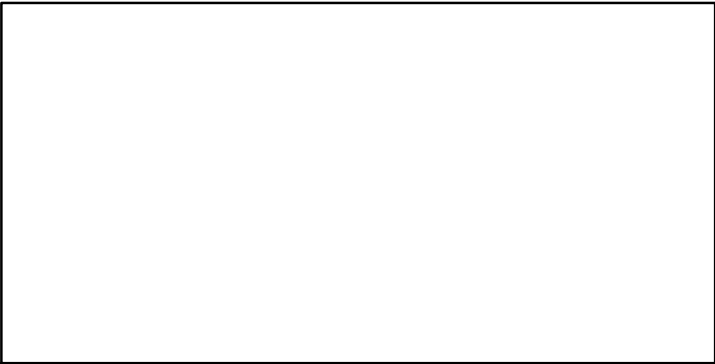
TAC*, Cpair*, Cadv*



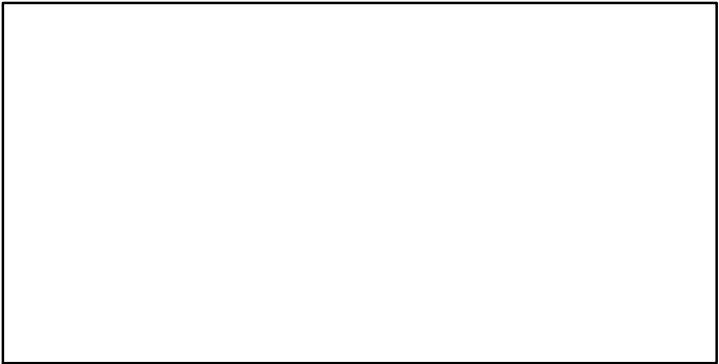
CPUE*



EFFORT*



CdivMSY*



Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

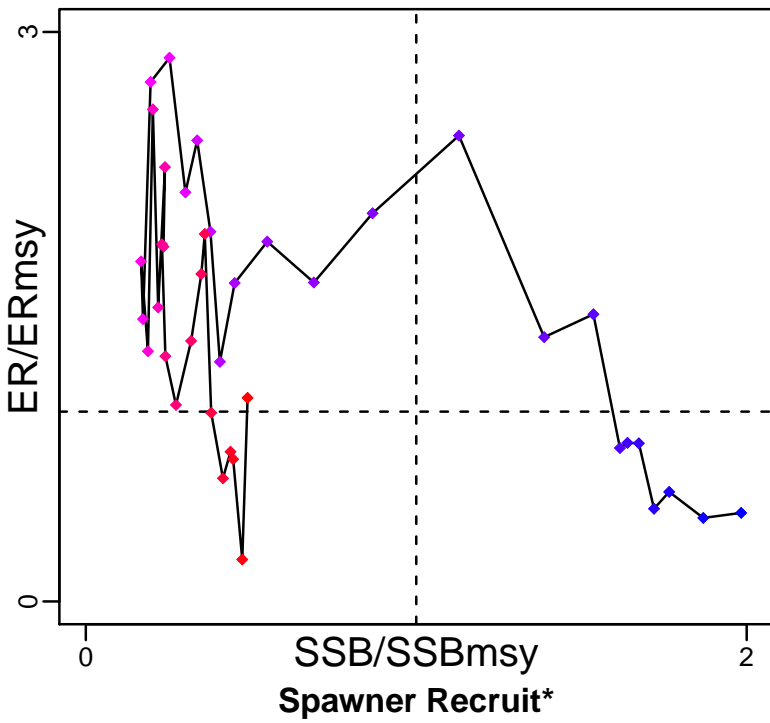
| Metadata | |
|-----------------------------|---|
| Scientific Name | Epinephelus niveatus |
| Current Assess ID | SEFSC-SNOWGROUPSATLC-1974-2013-HIVELY |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries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

| Reference Points | | | |
|------------------|------------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2013 | 2092 |
| SSBmsy | SSBmsy-MT | 2013 | 872 |
| Fmsy | Fmsy-1/yr | 2013 | 0.14 |
| ERmsy | ERmsy-calc-ratio | 2013 | 0.091 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2013 | 190 |
| M | M-1/yr | 2013 | 0.15 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

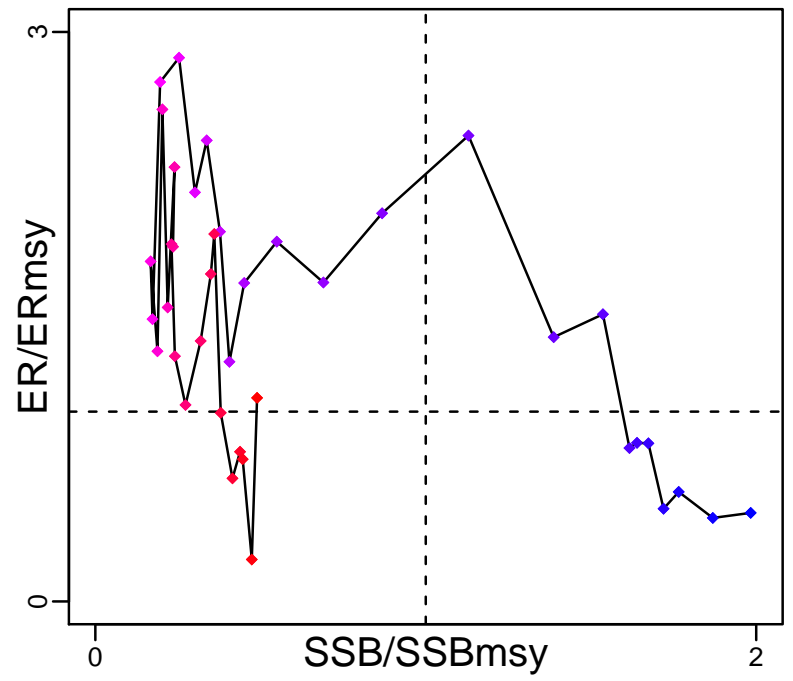
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|------------|------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2013 | 1200 | - | - |
| SSB | SSB-MT | 2013 | 427 | Both | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2013 | 0.18 | - | - |
| ER | ER-calc-ratio | 2013 | 0.097 | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2013 | 110 | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2013 | 0.574 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-MT | 2013 | 0.49 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2013 | 1.286 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-calc-ratio | 2013 | 1.072 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

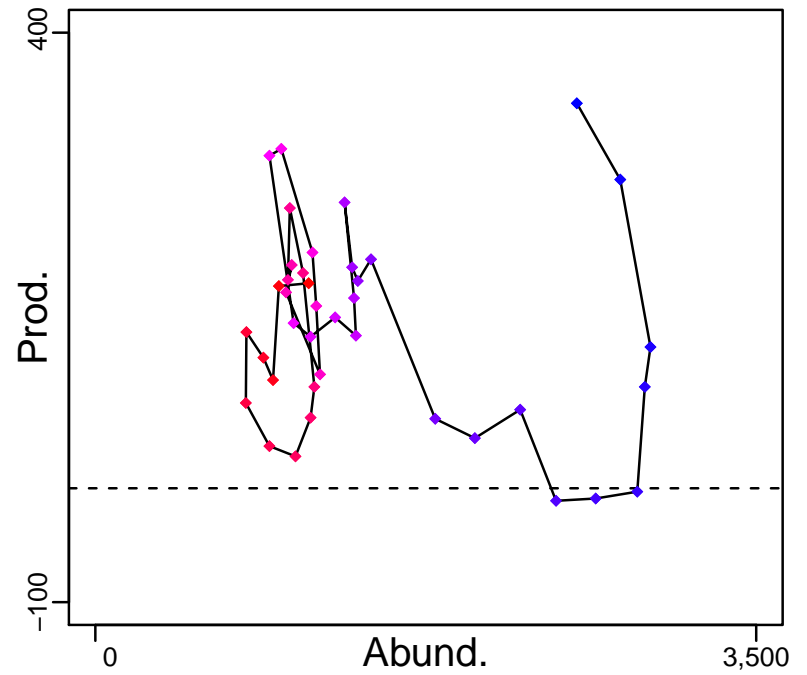
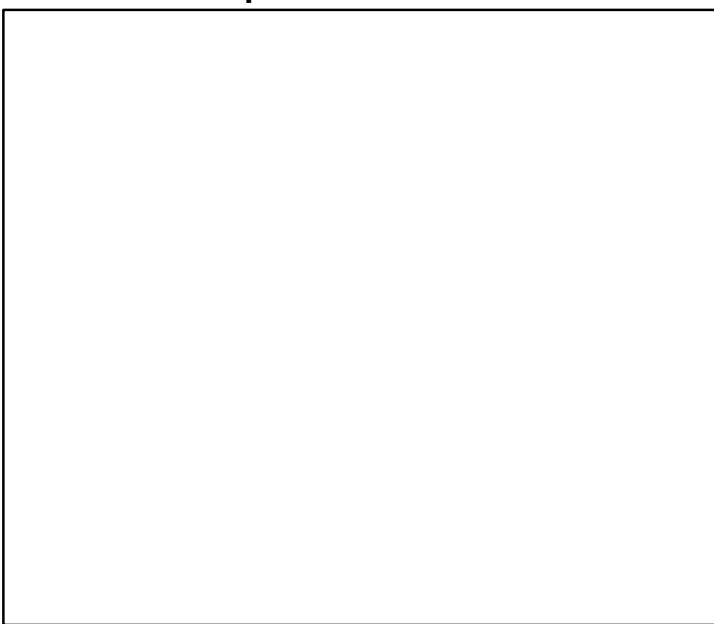
Kobe MSYpref (1974–2013–HIVELY)



Kobe MGTpref (1974–2013–HIVELY)



Production (1974–2013–HIVELY)

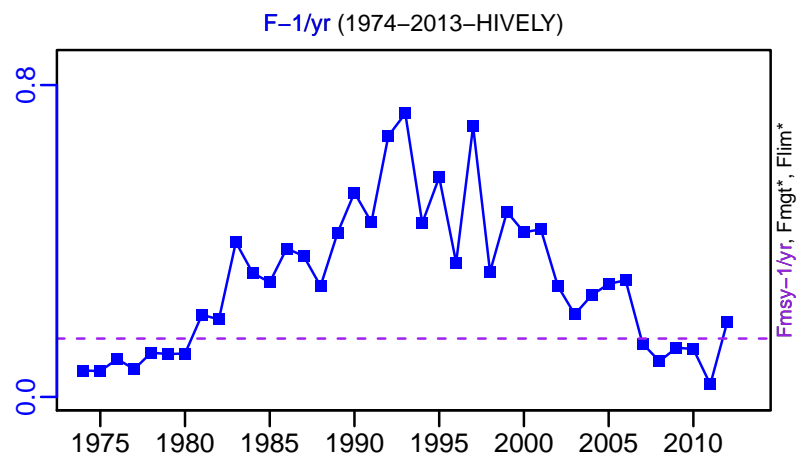
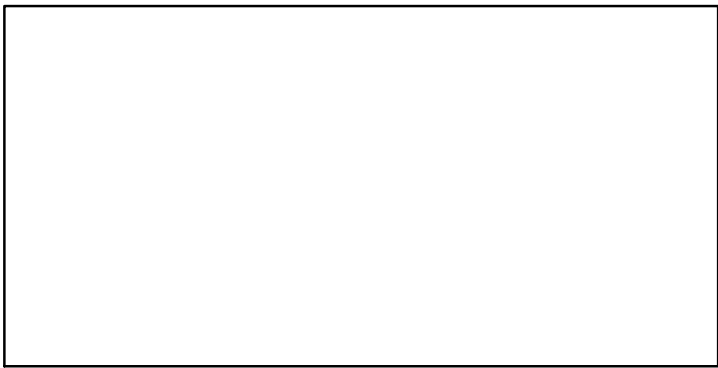
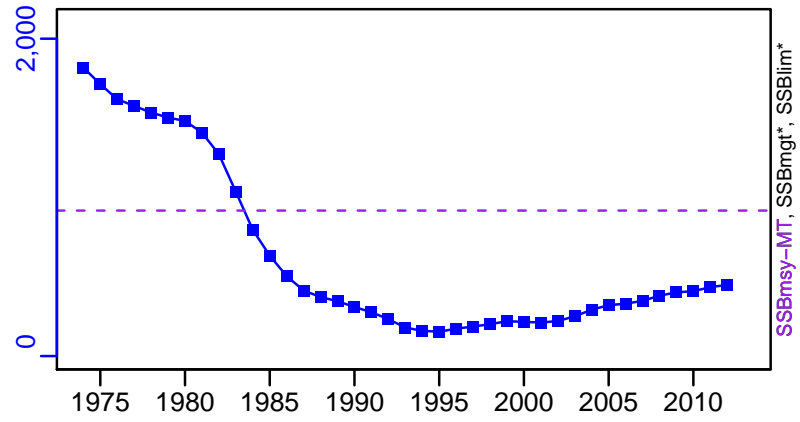
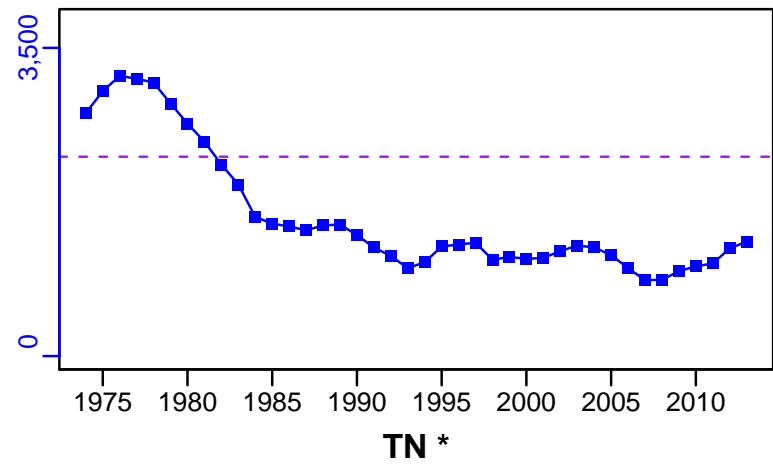


◆ Start Year ◆ End Year * No Data

Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

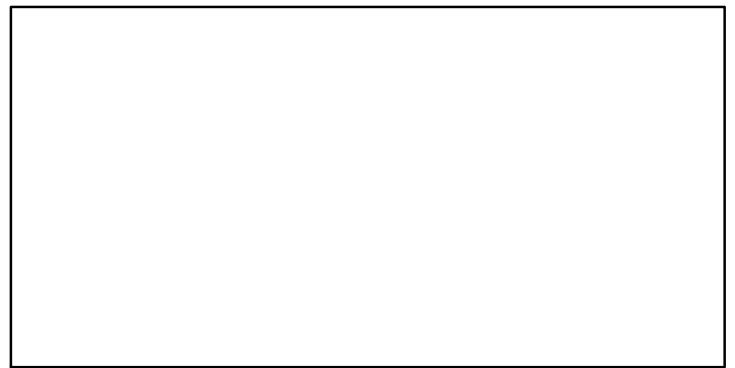
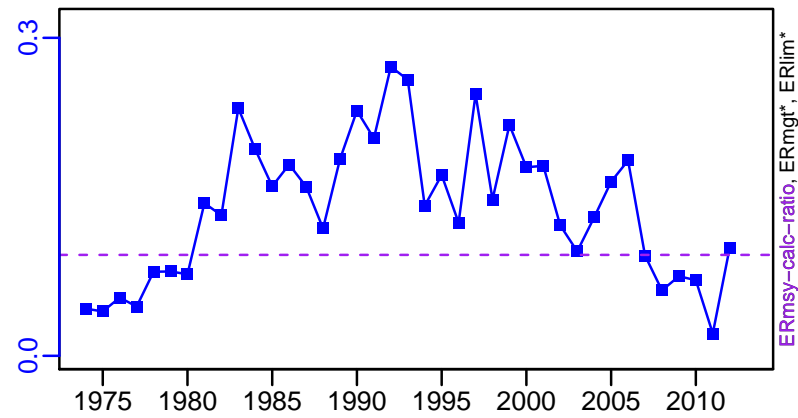
TB-MT (1974-2013-HIVELY)

SSB-MT (1974-2013-HIVELY)



ER-calc-ratio (1974-2013-HIVELY)

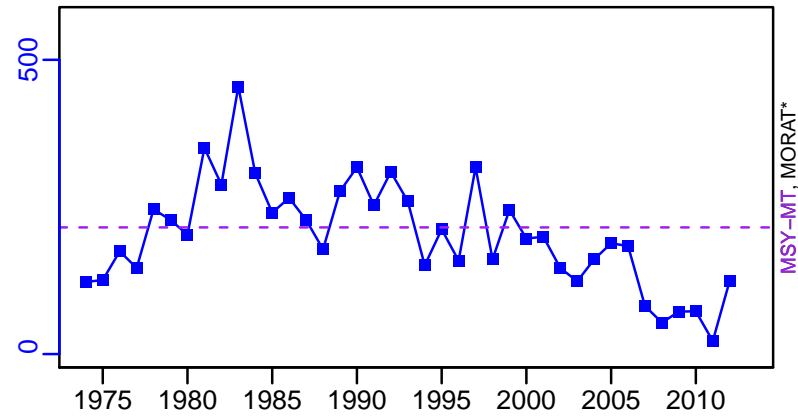
Recruits*



Snowy grouper Southern Atlantic coast [SNOWGROUPSATLC]

TL-MT, TC*, RecC* (1974-2013-HIVELY)

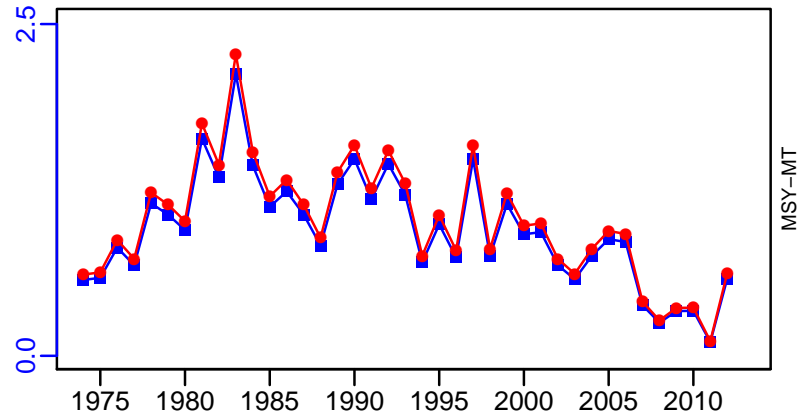
TAC*, Cpair*, Cadv*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1974-2013-HIVELY)



Spanish mackerel Gulf of Mexico [SPANMACKGM]

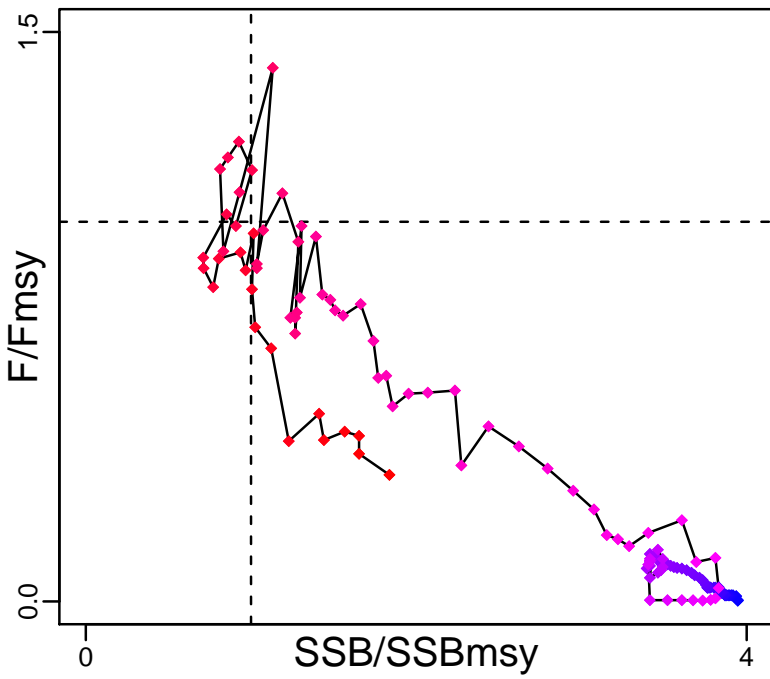
| Metadata | |
|-----------------------------|---|
| Scientific Name | Scomberomorus maculatus |
| Current Assess ID | SEFSC-SPANMACKGM-1886-2011-HIVELY |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

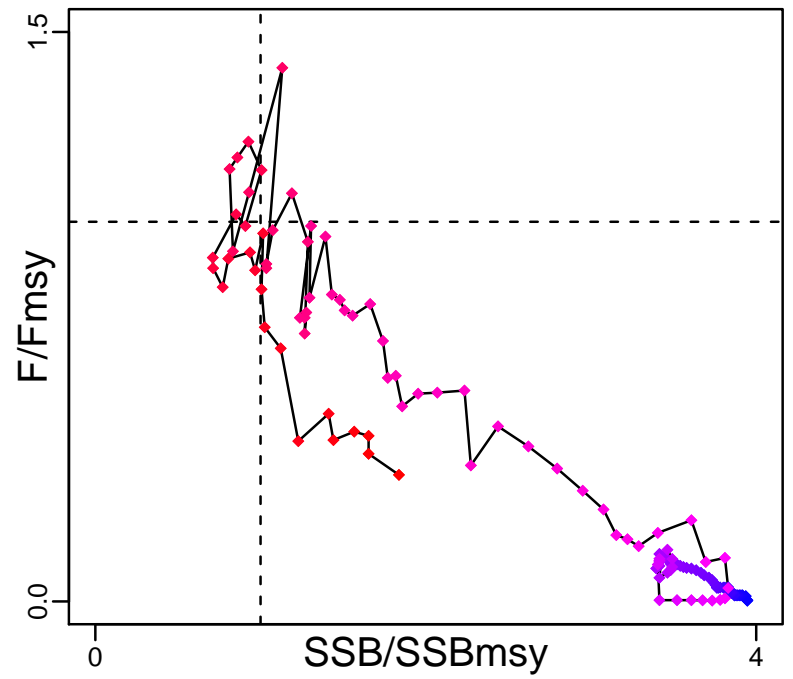
| Time Series | | | | | |
|-------------------|---------------------|-----------|------------|-----|------|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2011 | 28,400 | - | - |
| SSB | SSB-MT | 2011 | 19,000 | - | 0.2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 31,500,000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

Spanish mackerel Gulf of Mexico [SPANMACKGM]

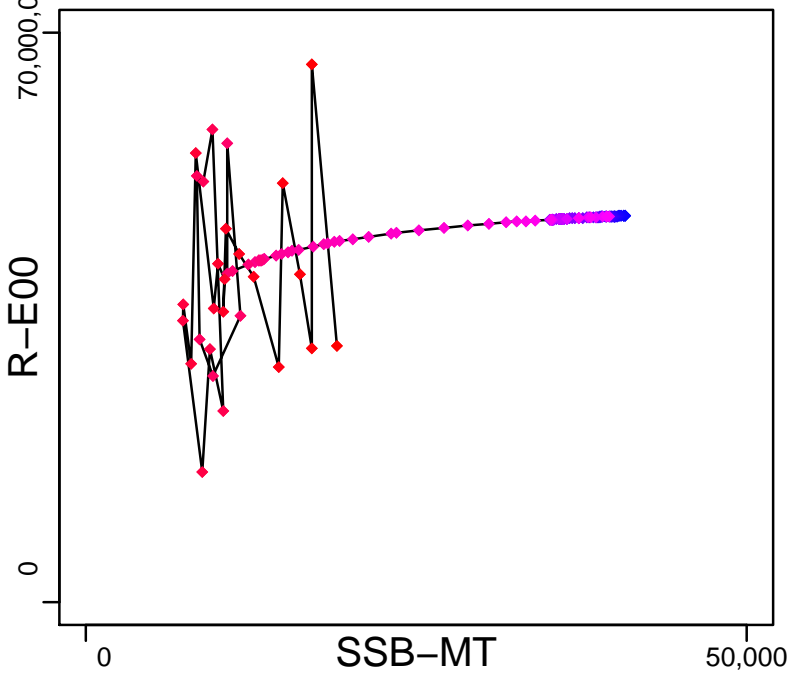
Kobe MSYpref (1886–2011–HIVELY)



Kobe MGTpref (1886–2011–HIVELY)



Spawner Recruit (1886–2011–HIVELY)



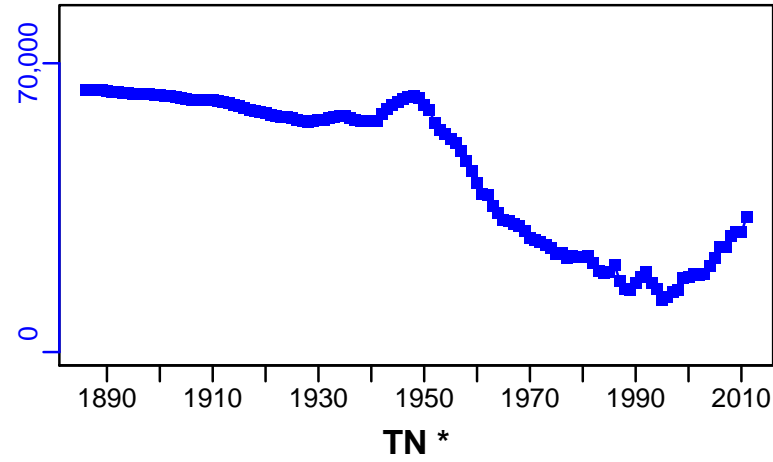
Production*



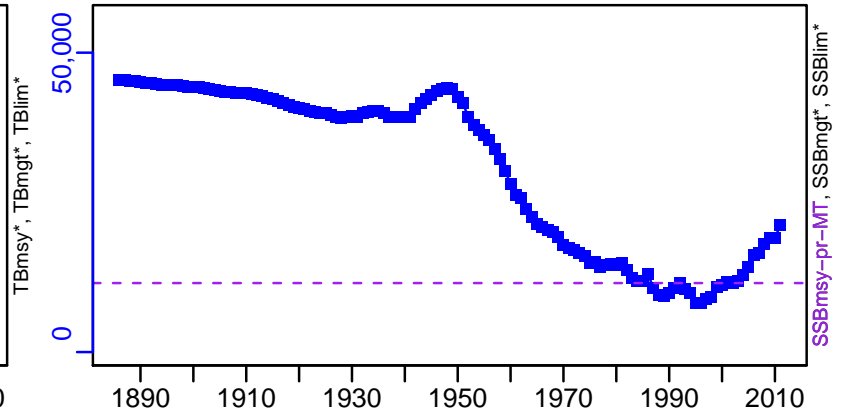
◆ Start Year ◆ End Year * No Data

Spanish mackerel Gulf of Mexico [SPANMACKGM]

TB-MT (1886–2011–HIVELY)



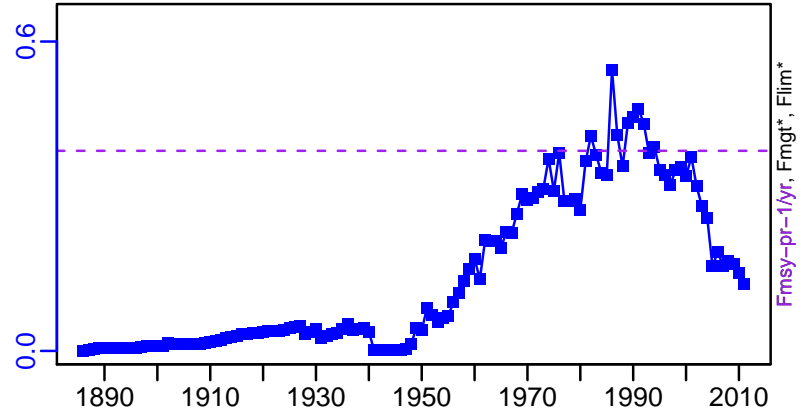
SSB-MT (1886–2011–HIVELY)



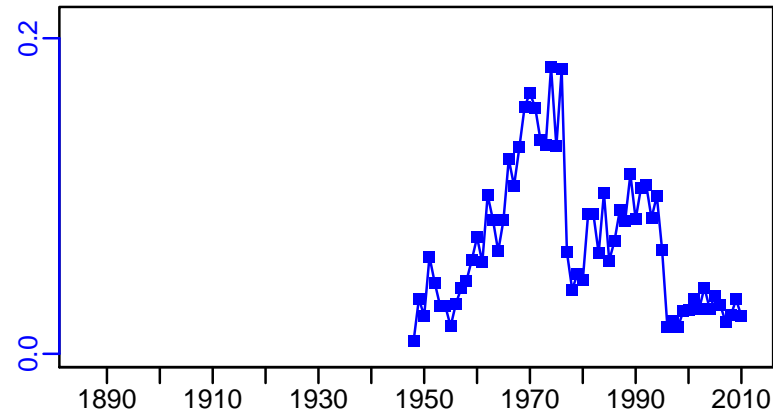
TN *



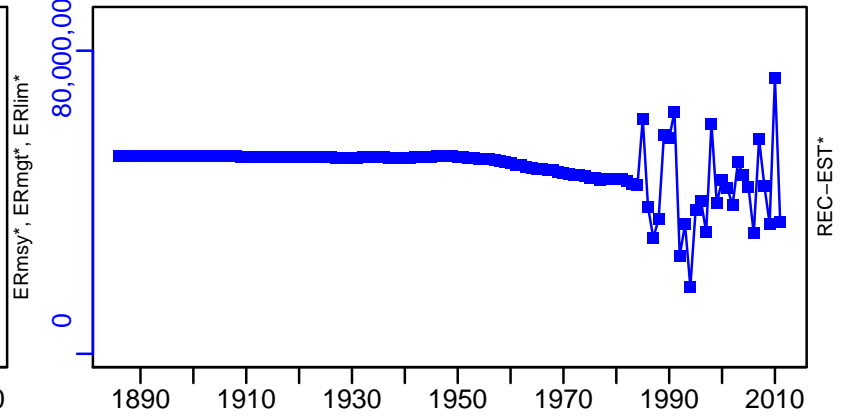
F-1/yr (1886–2011–HIVELY)



ER-calc-ratio (1886–2011–HIVELY)

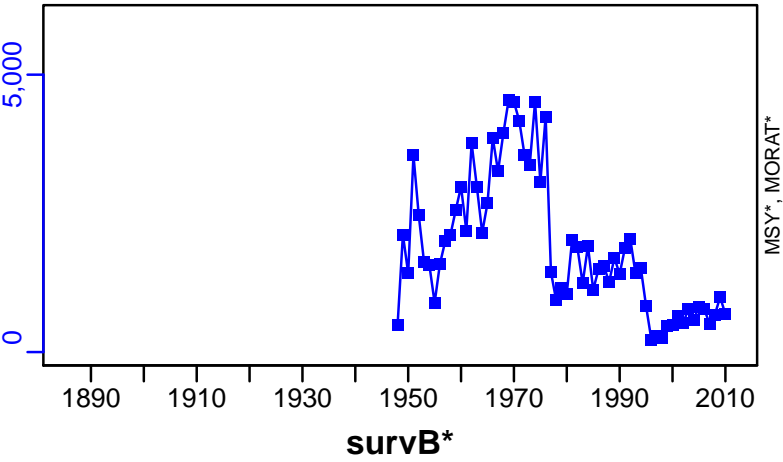


R-E00 (1886–2011–HIVELY)



Spanish mackerel Gulf of Mexico [SPANMACKGM]

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



TAC*, Cpair*, Cadv*



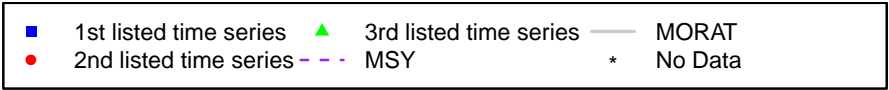
CPUE*



EFFORT*



CdivMSY*



Spanish mackerel Southern Atlantic coast [SPANMACKSATLC]

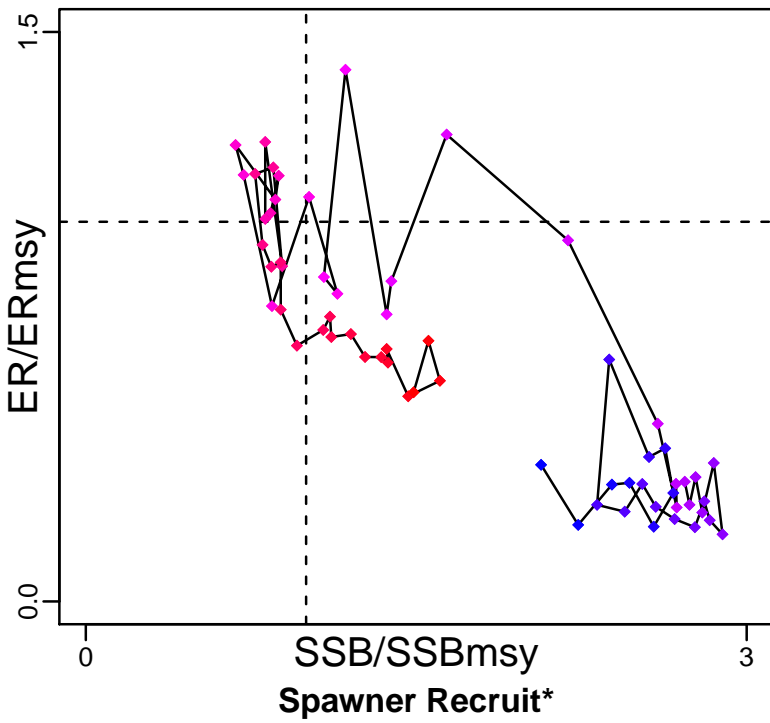
| Metadata | |
|-----------------------------|---|
| Scientific Name | Scomberomorus maculatus |
| Current Assess ID | SEFSC-SPANMACKSATLC-1950-2012-HIVELY |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast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

| Reference Points | | | |
|------------------|------------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2012 | 9548 |
| SSBmsy | SSBmsy-MT | 2012 | 3266 |
| Fmsy | Fmsy-pr-1/yr | 2012 | 0.69 |
| ERmsy | ERmsy-calc-ratio | 2012 | 0.288 |
| TBmgt | - | - | - |
| SSBmgt | SSBmgt-MT | 2012 | 3266 |
| Fmgt | Fmgt-1/yr | 2012 | 0.518 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2012 | 2750 |
| M | M-1/yr | 2012 | 0.35 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

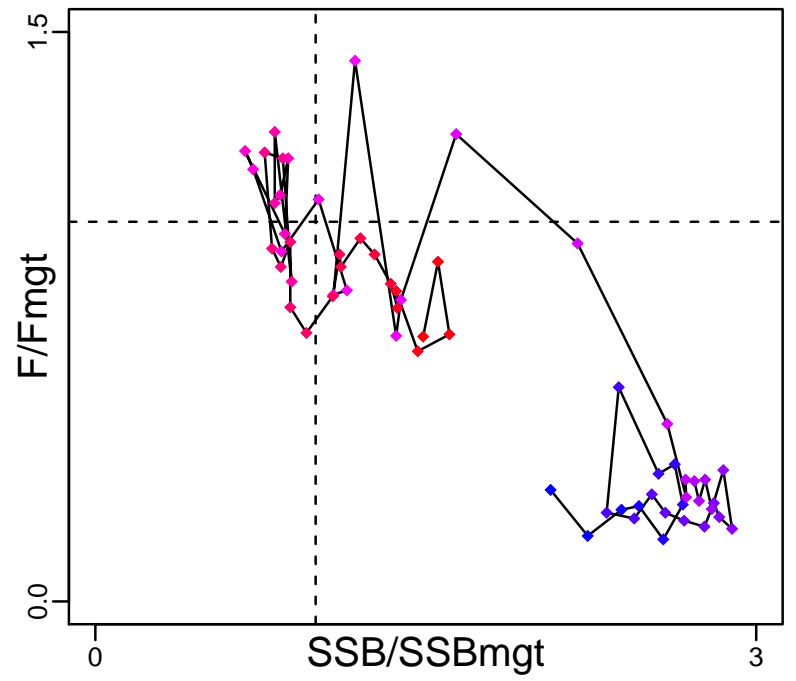
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|------------|---------|------|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2012 | 11,400 | - | - |
| SSB | SSB-MT | 2012 | 4860 | Females | 0.7+ |
| TN | - | - | - | - | - |
| R | - | - |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

Spanish mackerel Southern Atlantic coast [SPANMACKSATLC]

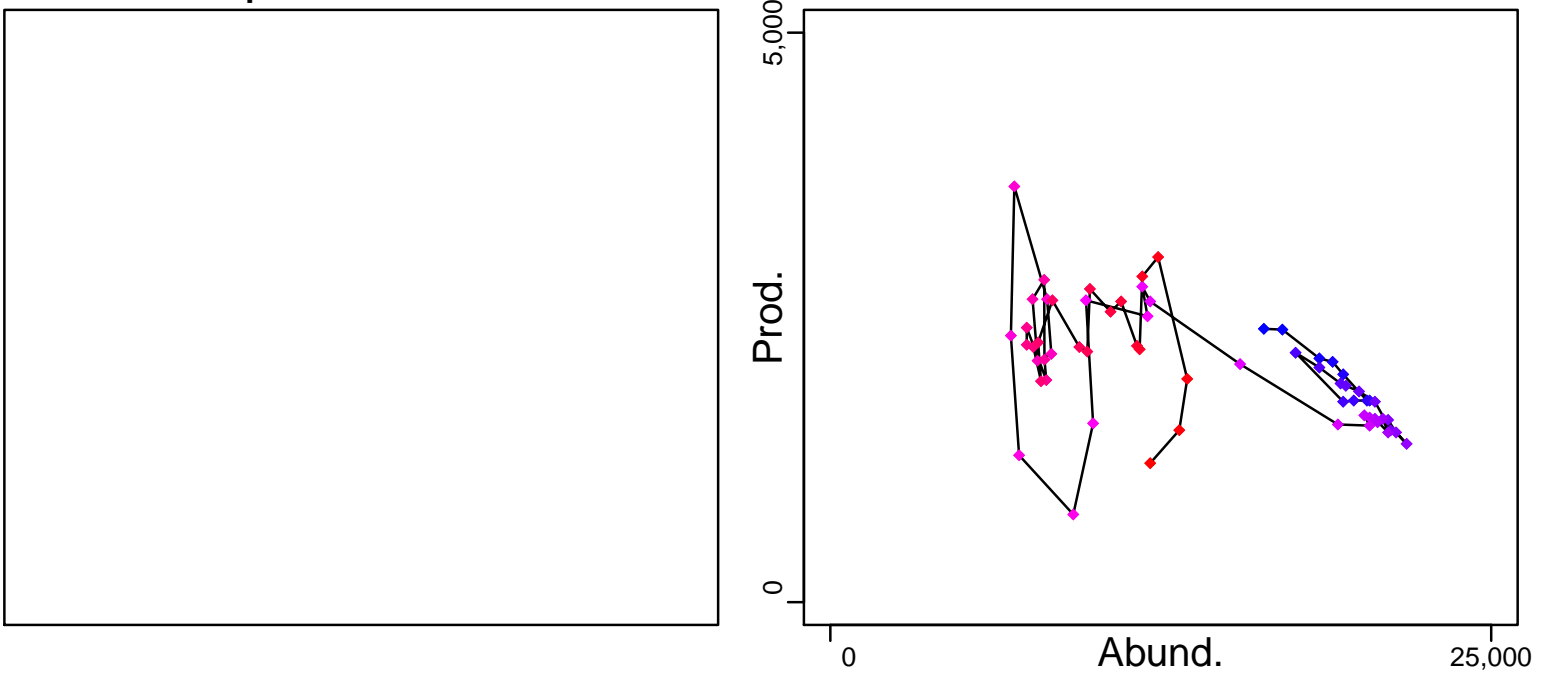
Kobe MSYpref (1950–2012–HIVELY)



Kobe MGTpref (1950–2012–HIVELY)



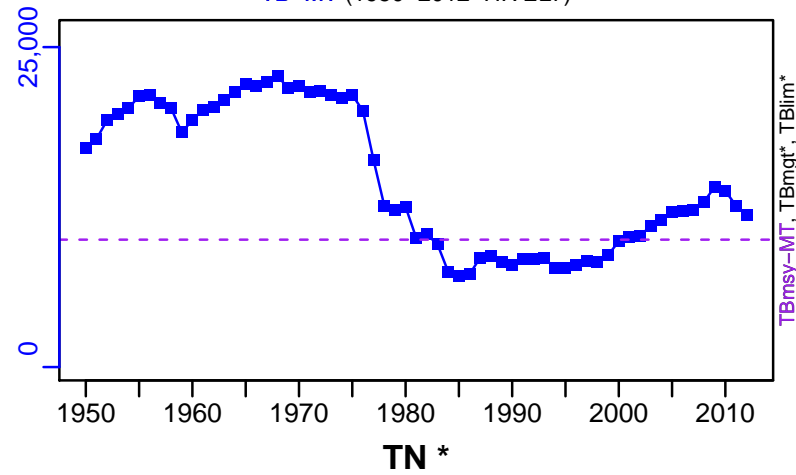
Production (1950–2012–HIVELY)



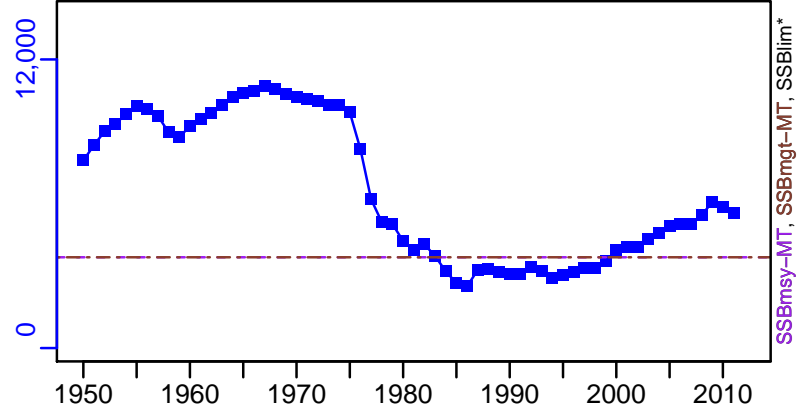
◆ Start Year ◆ End Year * No Data

Spanish mackerel Southern Atlantic coast [SPANMACKSATLC]

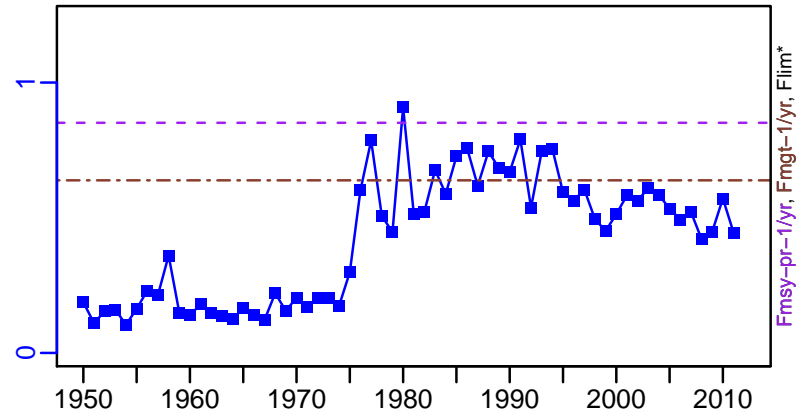
TB-MT (1950-2012-HIVELY)



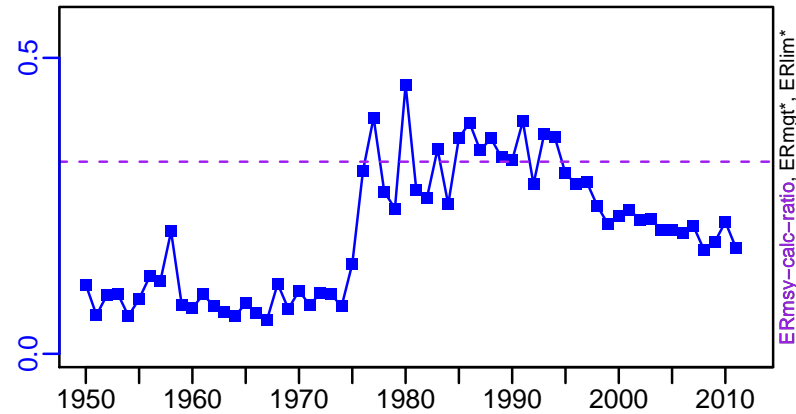
SSB-MT (1950-2012-HIVELY)



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



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

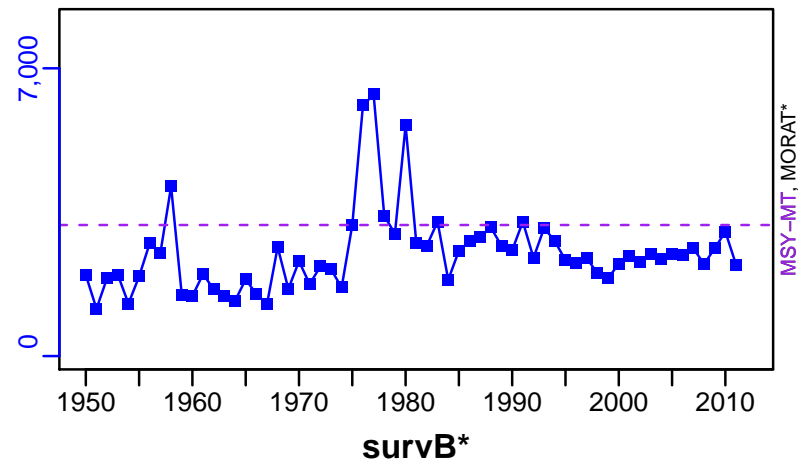


Recruits*



Spanish mackerel Southern Atlantic coast [SPANMACKSATLC]

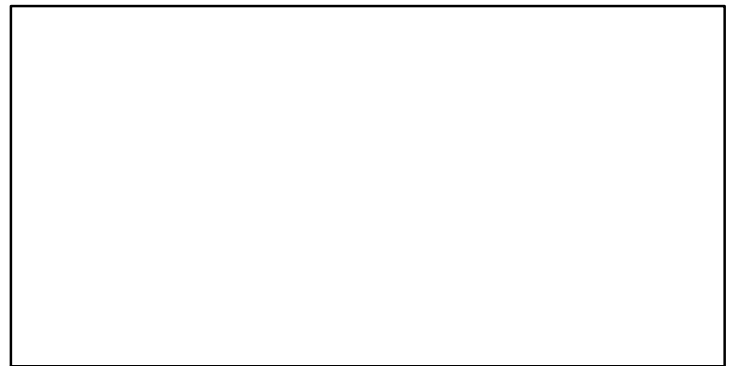
TL-MT, TC*, RecC* (1950–2012–HIVELY)



TAC*, Cpair*, Cadv*



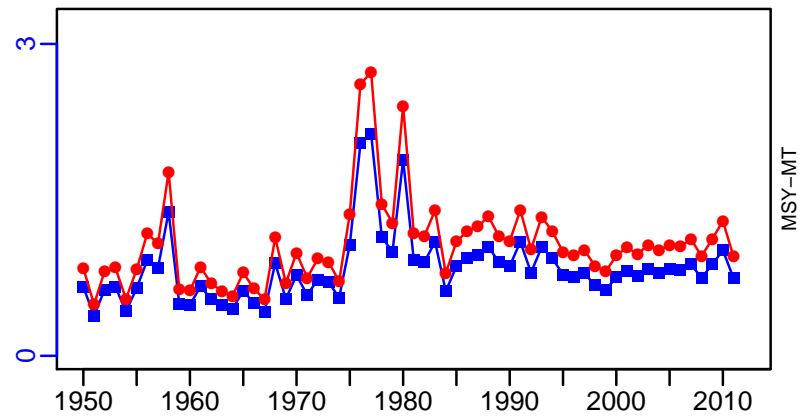
CPUE*



EFFORT*



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

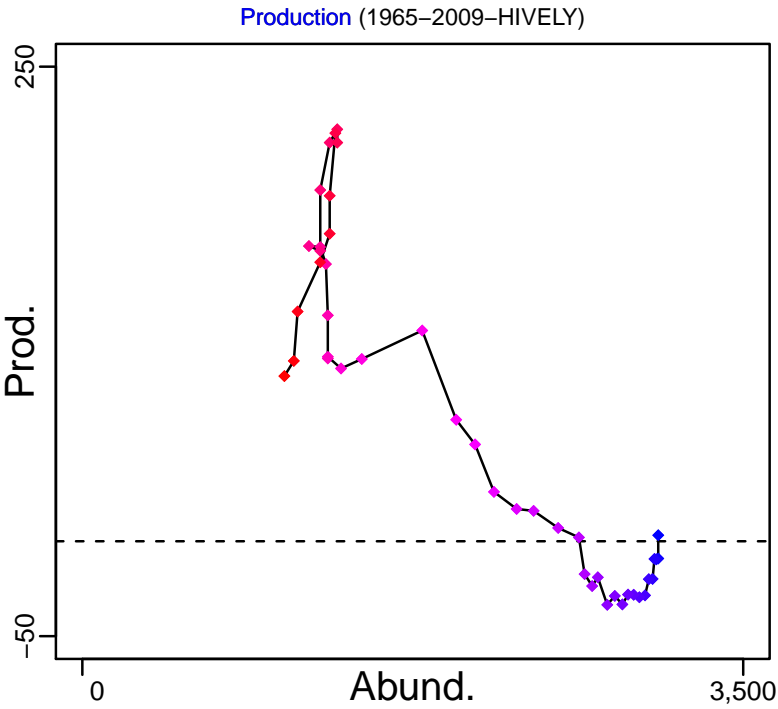
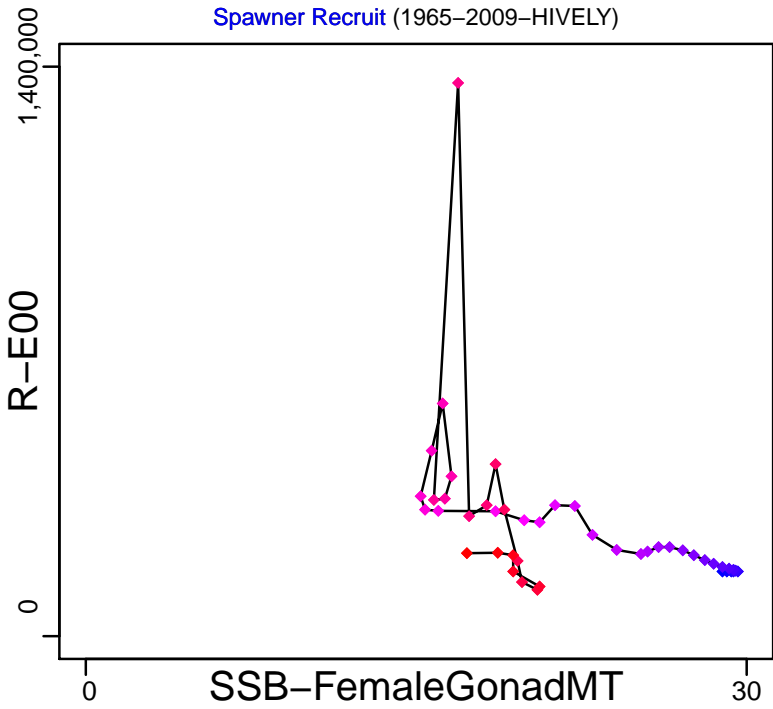
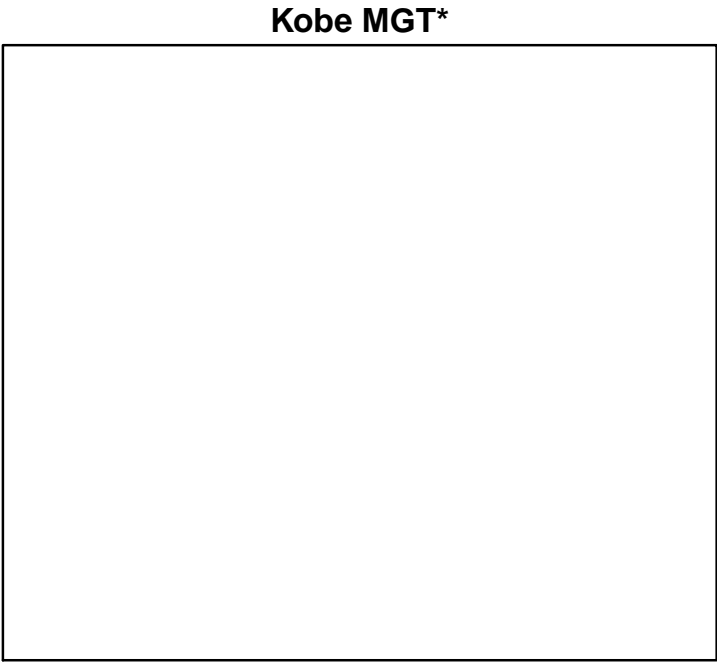


Tilefish Gulf of Mexico [TILEGM]

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

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

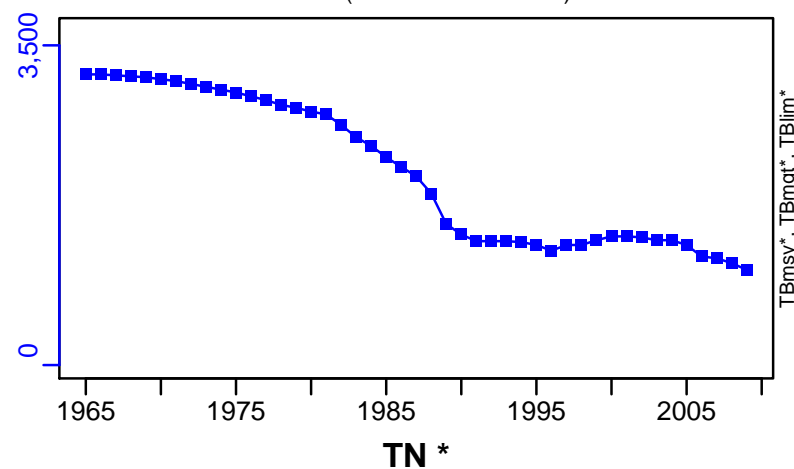
| Time Series | | | | | |
|-------------------|-------------------|-----------|------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2009 | 999 | - | - |
| SSB | SSB-FemaleGonadMT | 2009 | 17 | Females | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2009 | 204,000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



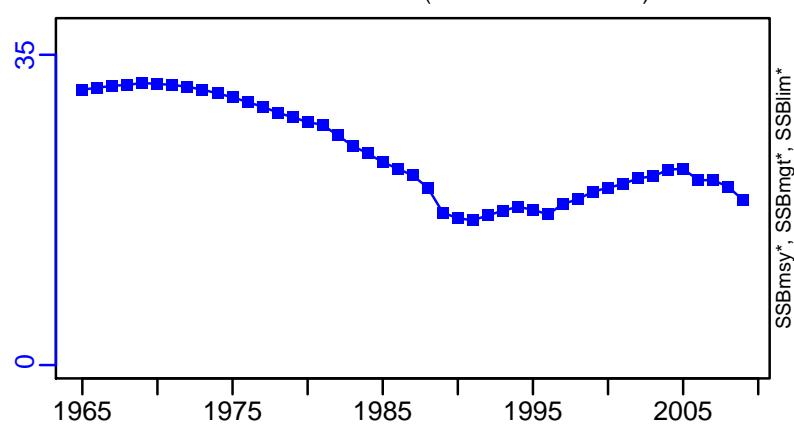
◆ Start Year ◆ End Year * No Data

Tilefish Gulf of Mexico [TILEGM]

TB-MT (1965–2009–HIVELY)



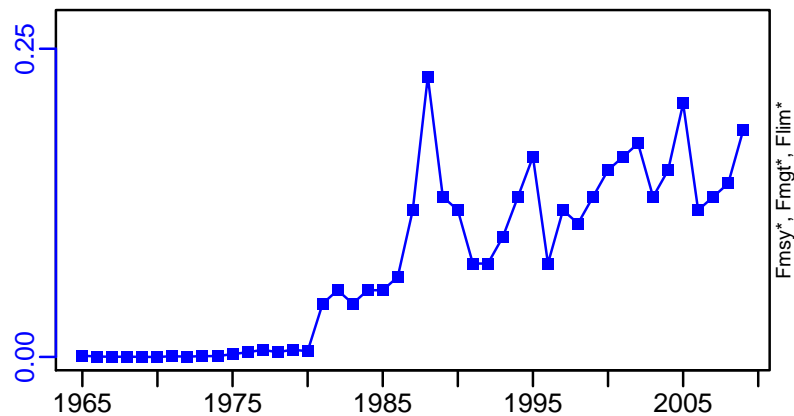
SSB-FemaleGonadMT (1965–2009–HIVELY)



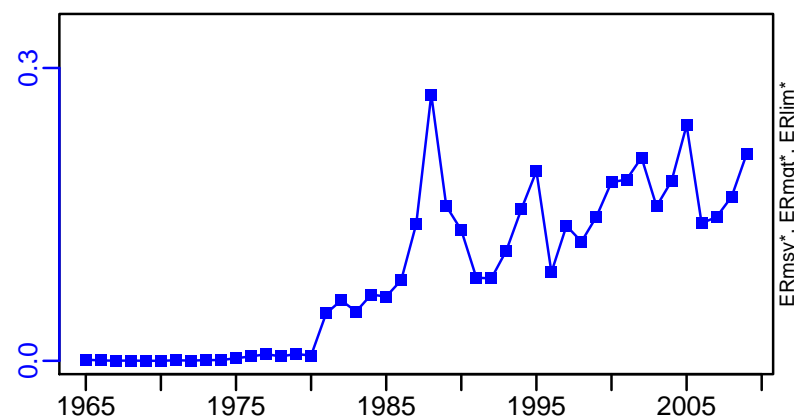
TN *



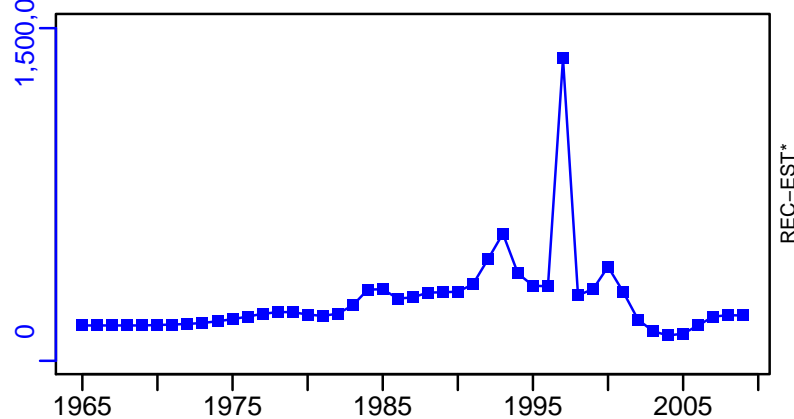
F-1/yr (1965–2009–HIVELY)



ER-calc-ratio (1965–2009–HIVELY)

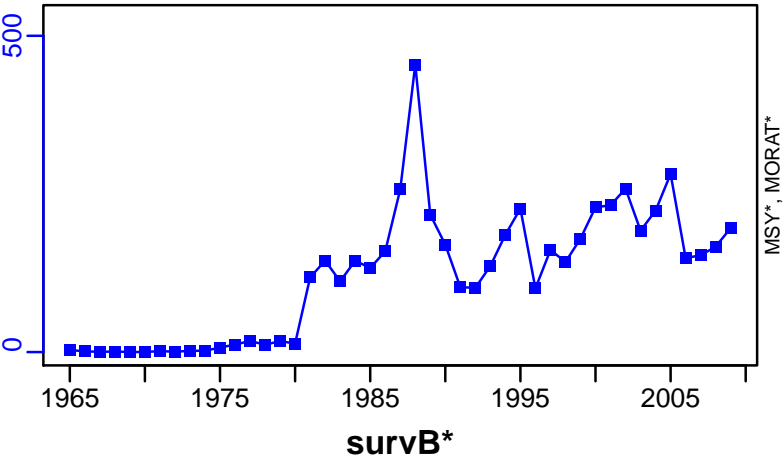


R-E00 (1965–2009–HIVELY)



Tilefish Gulf of Mexico [TILEGM]

TL-MT, TC*, RecC* (1965–2009–HIVELY)



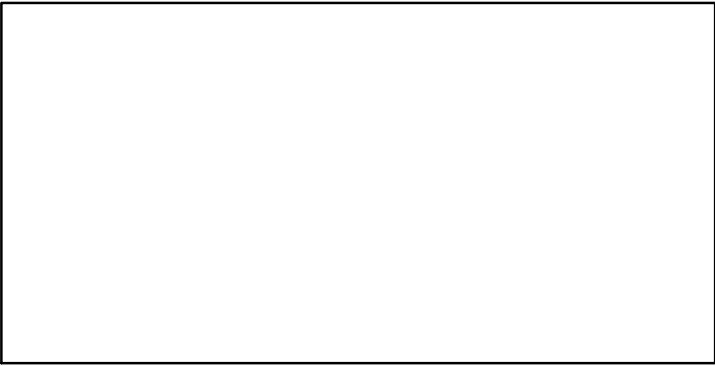
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Tilefish Southern Atlantic coast [TILESATLC]

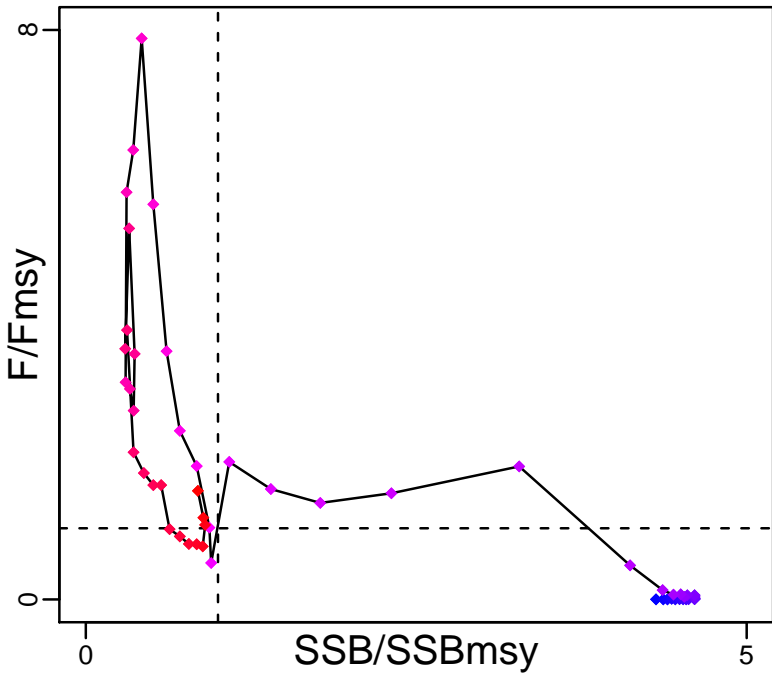
| Metadata | |
|-----------------------------|---|
| Scientific Name | Lopholatilus chamaeleonticeps |
| Current Assess ID | SEFSC-TILESATLC-1962-2014-SISIMP2016 |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2011, 2014 |

| Reference Points | | | |
|------------------|----------------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2011 | 2918 |
| SSBmsy | SSBmsy-FemaleGonadMT | 2014 | 21,929 |
| Fmsy | Fmsy-1/yr | 2014 | 0.236 |
| ERmsy | ERmsy-calc-ratio | 2011 | 0.099 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2014 | 254 |
| M | M-1/yr | 2011 | 0.1 |
| TBlim | - | - | - |
| SSBlim | SSBlim-FemaleGonadMT | 2014 | 16,447 |
| Flim | Flim-1/yr | 2014 | 0.236 |
| ERlim | - | - | - |

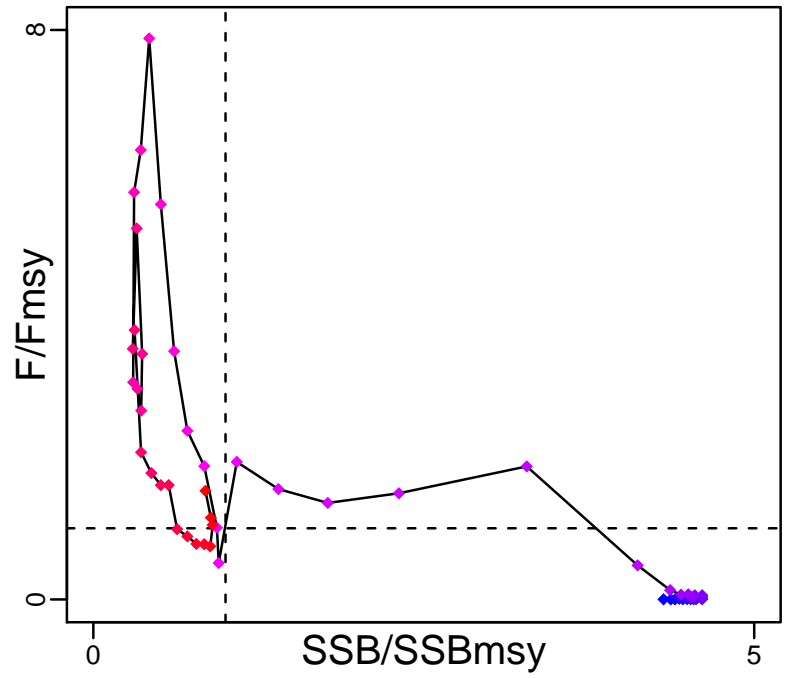
| Time Series | | | | | |
|-------------------|--|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2011 | 5240 | - | - |
| SSB | SSB-FemaleGonadMT | 2014 | 18,600 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 319,000 | - | 1 |
| F | F-1/yr | 2014 | 0.36 | - | - |
| ER | ER-calc-ratio | 2011 | 0.052 | - | - |
| TC | TC-MT | 2014 | 320 | | |
| TL | TL-MT | 2011 | 275 | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2011 | 1.796 | | |
| SSB/SSBmsy | SSB-FemaleGonadMT/SSBmsy-FemaleGonadMT | 2014 | 0.848 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2014 | 1.525 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-calc-ratio | 2011 | 0.526 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Tilefish Southern Atlantic coast [TILESATLC]

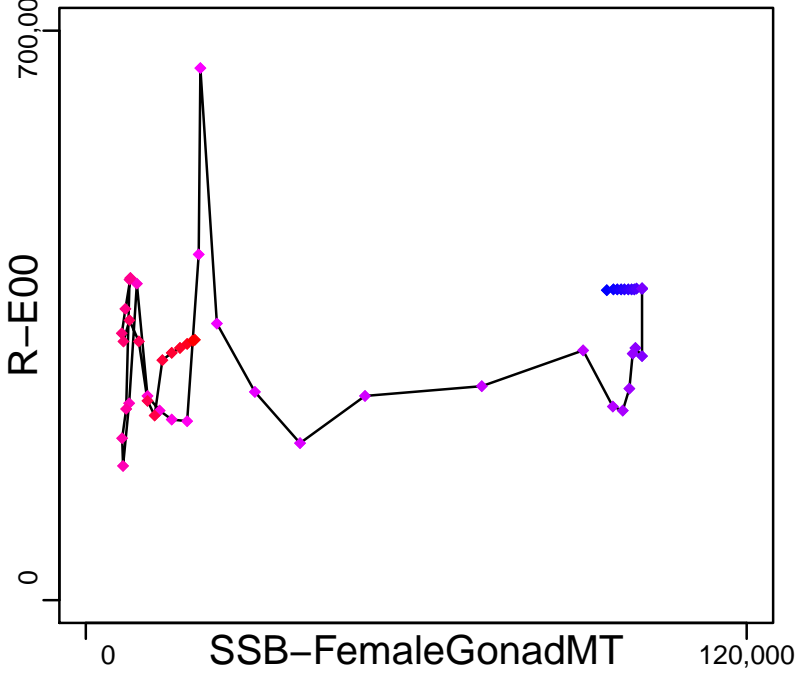
Kobe MSYpref (1962–2014–SISIMP2016)



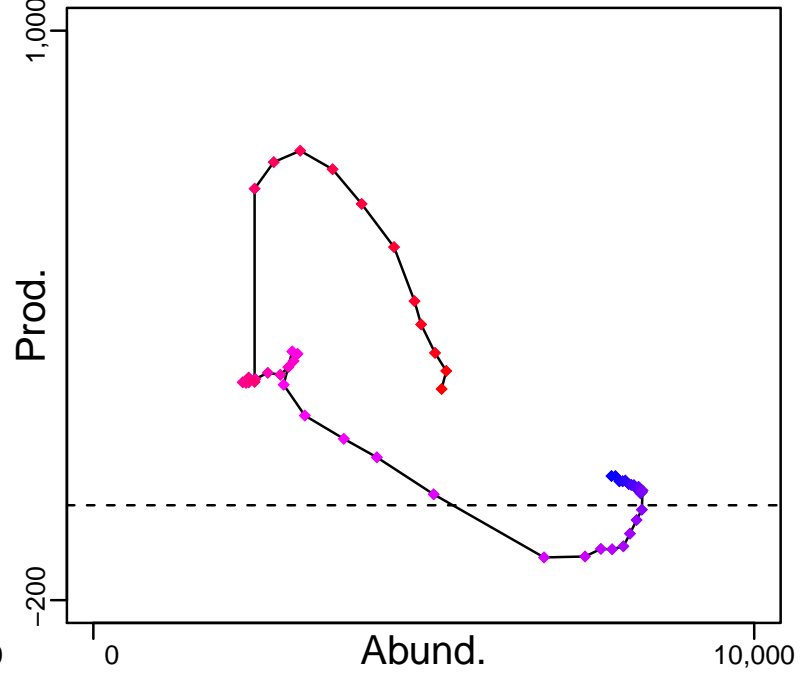
Kobe MGTpref (1962–2014–SISIMP2016)



Spawner Recruit (1962–2014–SISIMP2016)



Production (1961–2011–HIVELY)

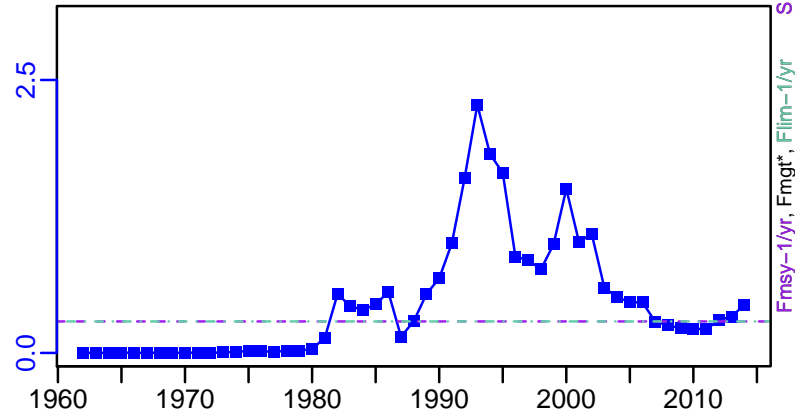
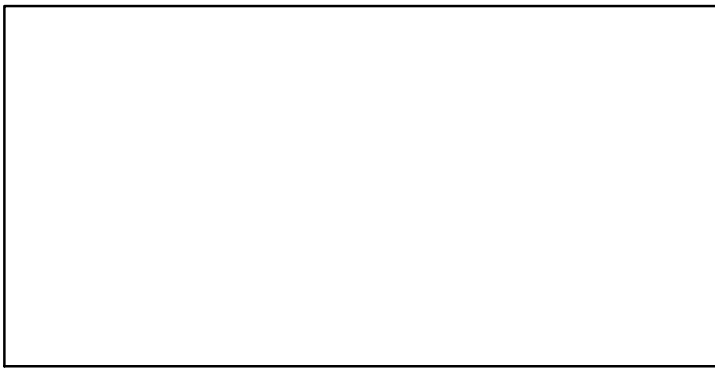
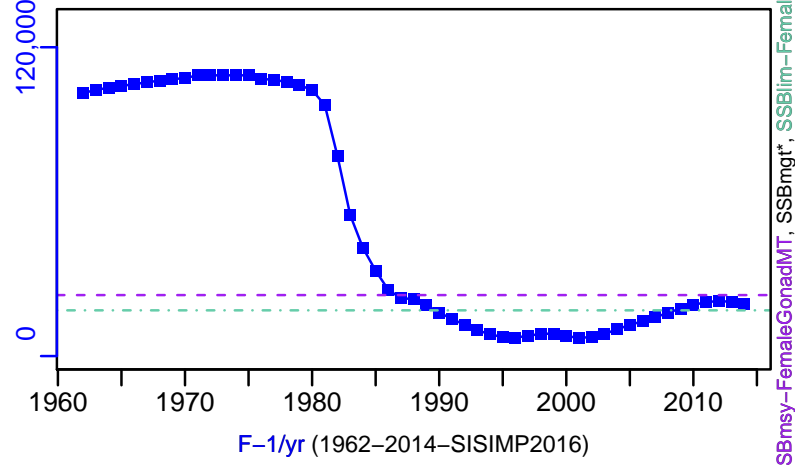
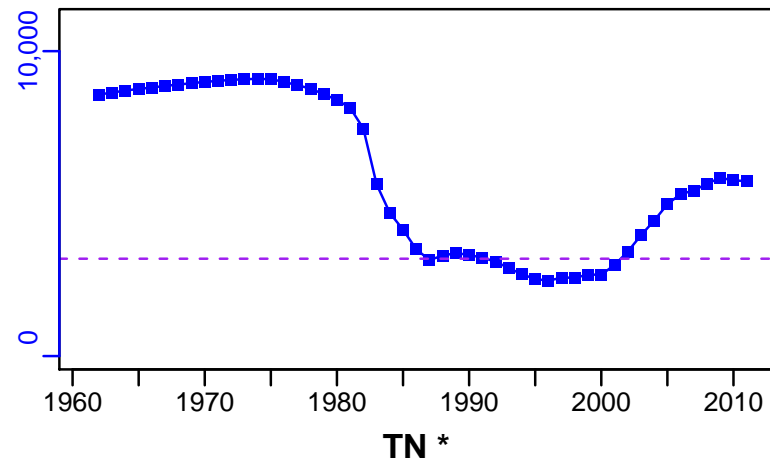


◆ Start Year ◆ End Year * No Data

Tilefish Southern Atlantic coast [TILESATLC]

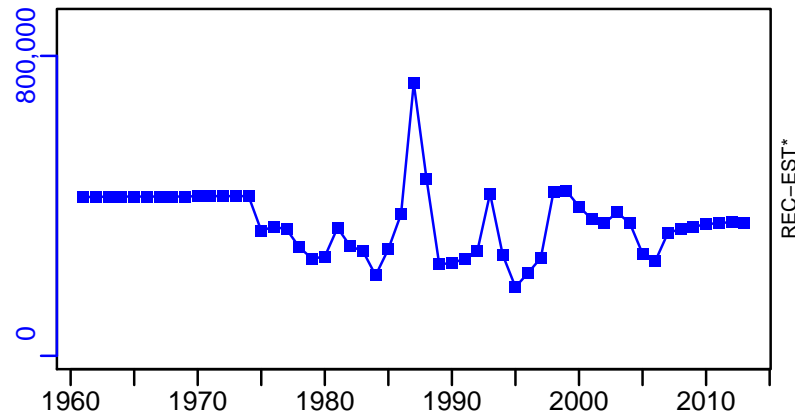
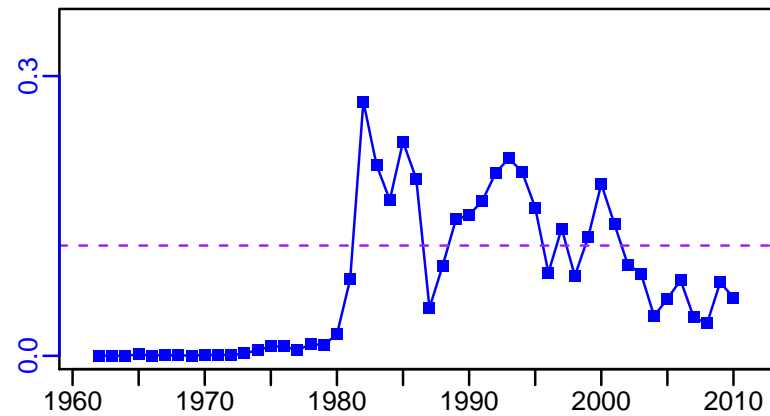
TB-MT (1961–2011–HIVELY)

SSB-FemaleGonadMT (1962–2014–SISIMP2016)



ER-calc-ratio (1961–2011–HIVELY)

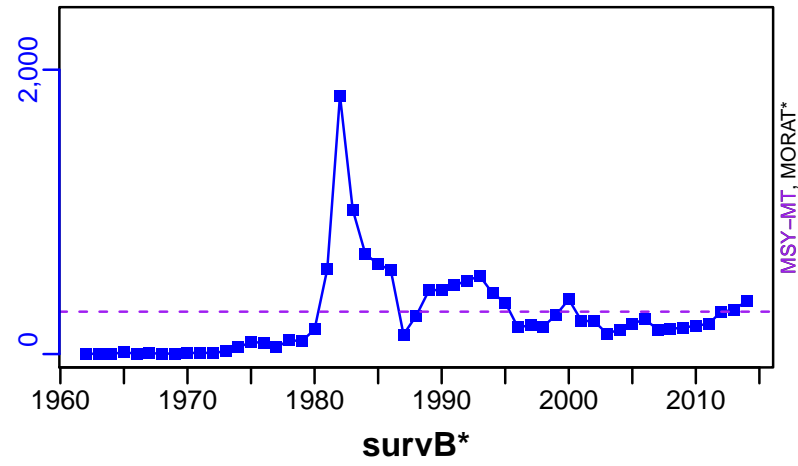
R-E00 (1962–2014–SISIMP2016)



Tilefish Southern Atlantic coast [TILESATLC]

TC-MT, TL*, RecC* (1962–2014–SISIMP2016)

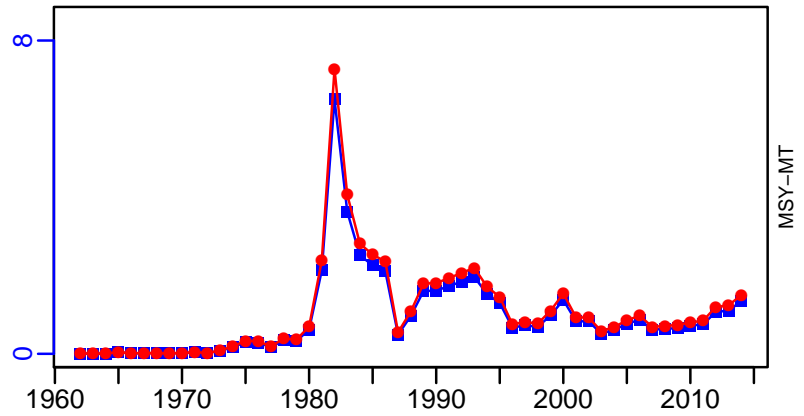
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1962–2014–SISIMP2016)



Vermilion snapper Gulf of Mexico [VSNAPGM]

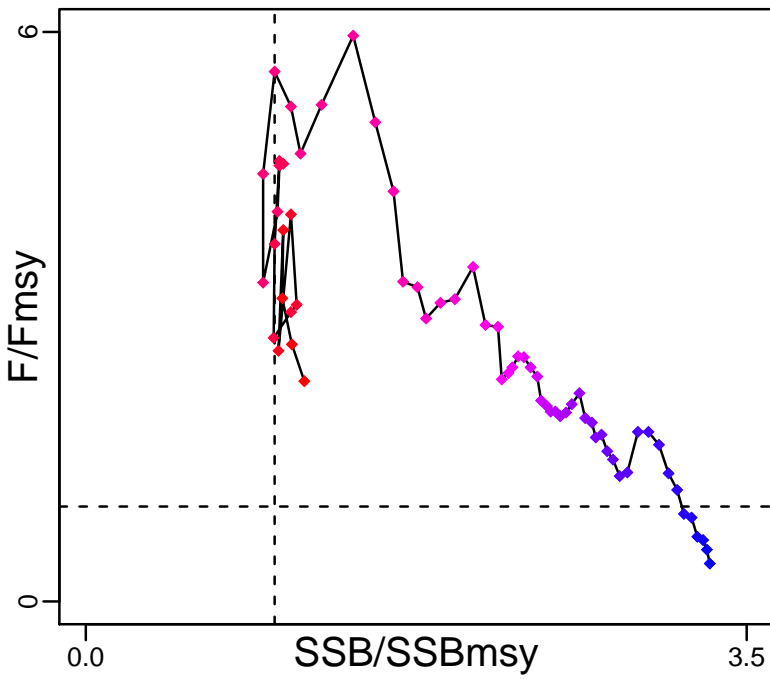
| Metadata | |
|-----------------------------|---|
| Scientific Name | Rhomboplites aurorubens |
| Current Assess ID | SEFSC-VSNAPGM-1950-2014-SISIMP2016 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science Center |
| Asmts in RAM | 2014, 2004 |

| Reference Points | | | |
|------------------|----------------|-----------|-----------------------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-E00eggs | 2014 | 1.97×10^{14} |
| Fmsy | Fmsy-1/yr | 2014 | 0.103 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.087 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2014 | 1529 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | SSBlim-E00eggs | 2014 | 1.48×10^{14} |
| Flim | Flim-1/yr | 2014 | 0.103 |
| ERlim | - | - | - |

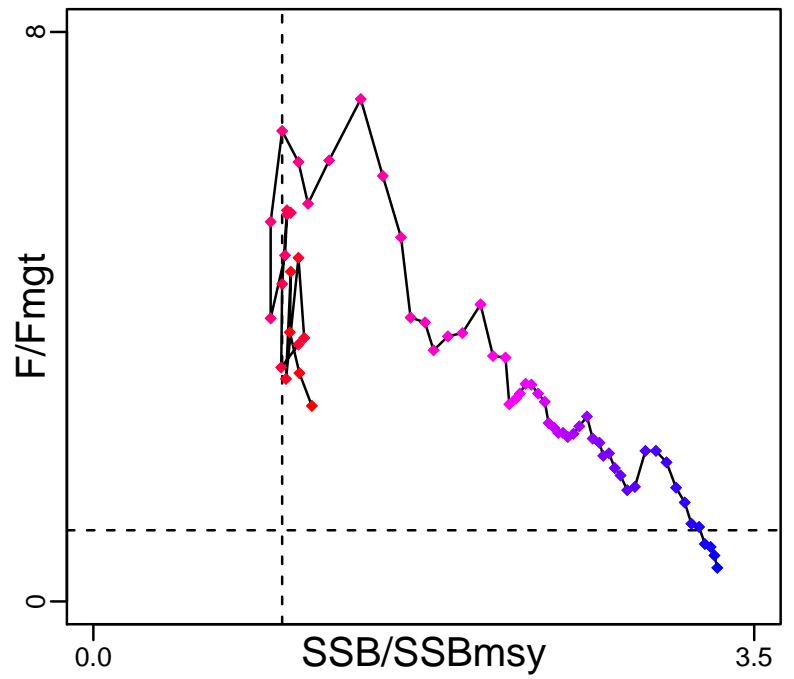
| Time Series | | | | | |
|-------------------|----------------------------|-----------|-----------------------|---------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2014 | 11,500 | - | 1+ |
| SSB | SSB-E00eggs | 2014 | 2.28×10^{14} | Females | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 27,200,000 | - | 0 |
| F | F-1/yr | 2014 | 0.239 | - | - |
| ER | ER-calc-ratio | 2014 | 0.102 | - | - |
| TC | TC-MT | 2014 | 1170 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-E00eggs/SSBmsy-E00eggs | 2014 | 1.157 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2014 | 2.32 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 2.747 | | |
| ER/ERmgt | - | - | - | | |

Vermilion snapper Gulf of Mexico [VSNAPOGM]

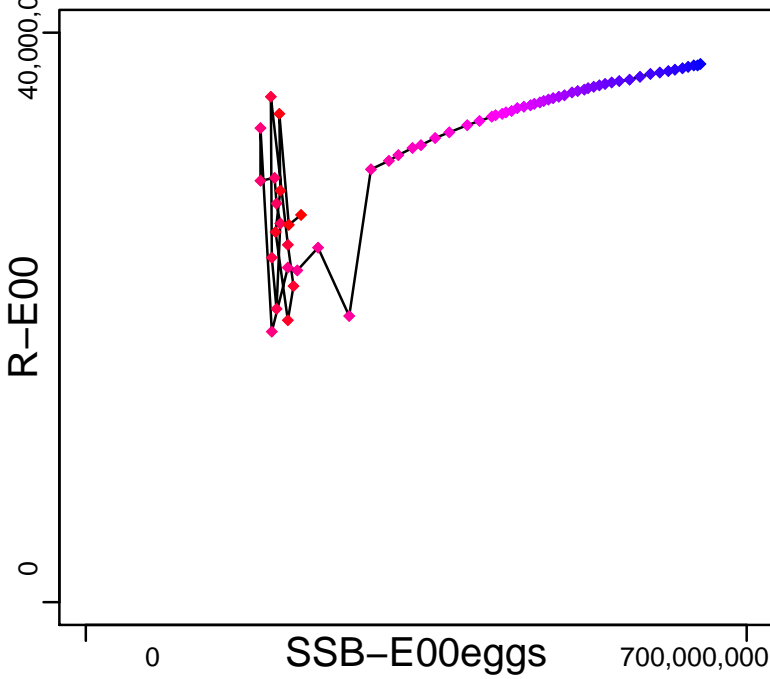
Kobe MSYpref (1950–2014–SISIMP2016)



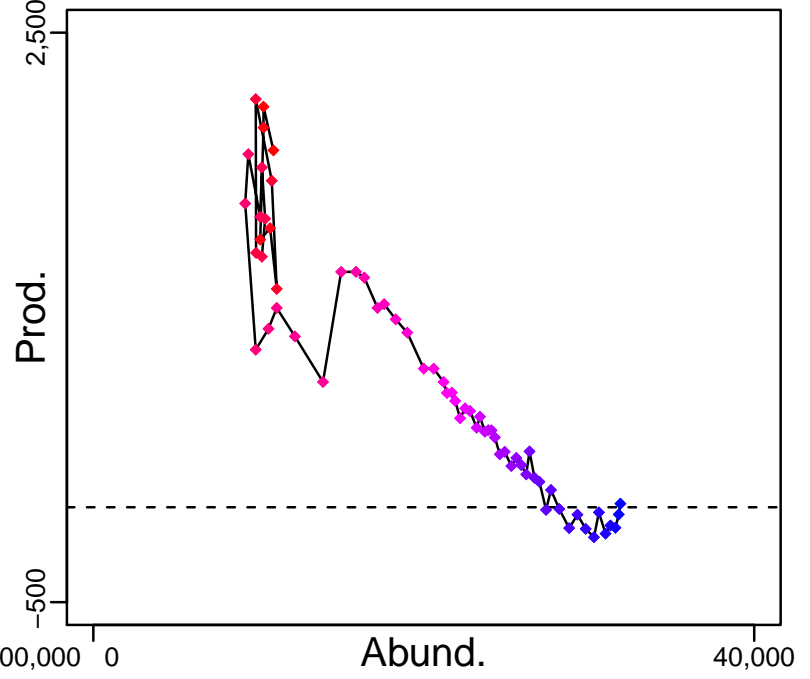
Kobe MGTpref (1950–2014–SISIMP2016)



Spawner Recruit (1950–2014–SISIMP2016)



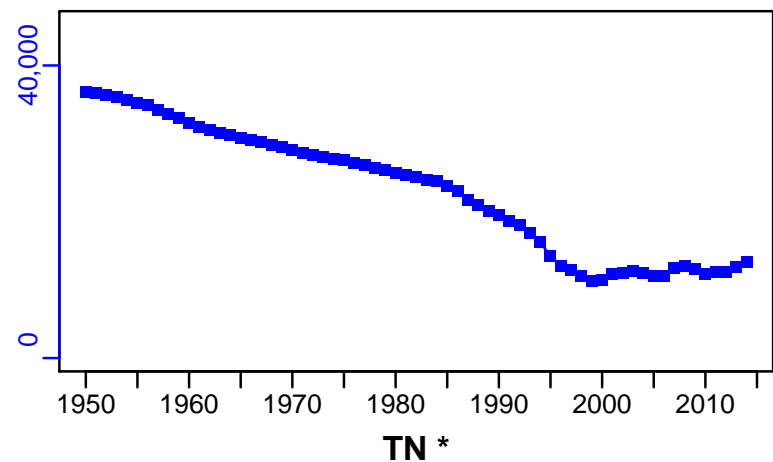
Production (1950–2014–SISIMP2016)



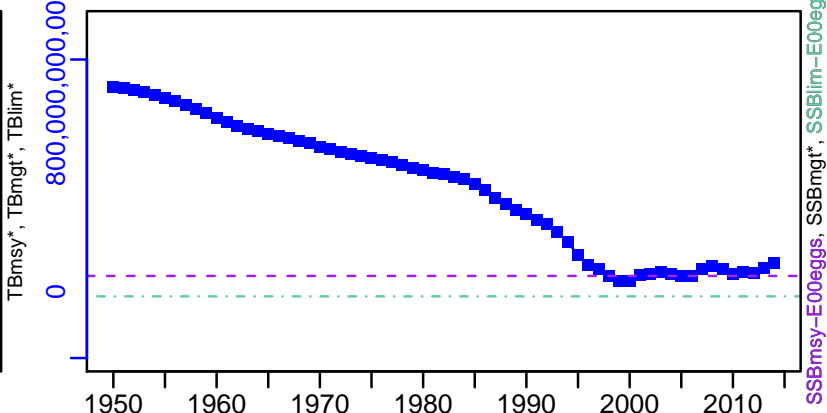
◆ Start Year ◆ End Year * No Data

Vermilion snapper Gulf of Mexico [VSNAPGM]

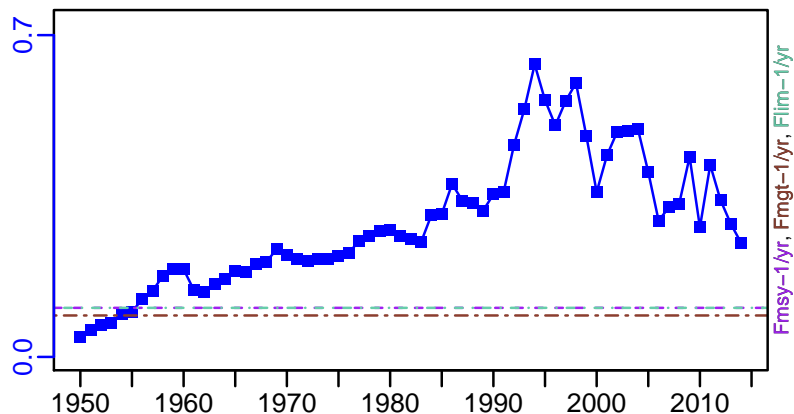
TB-MT (1950–2014–SISIMP2016)



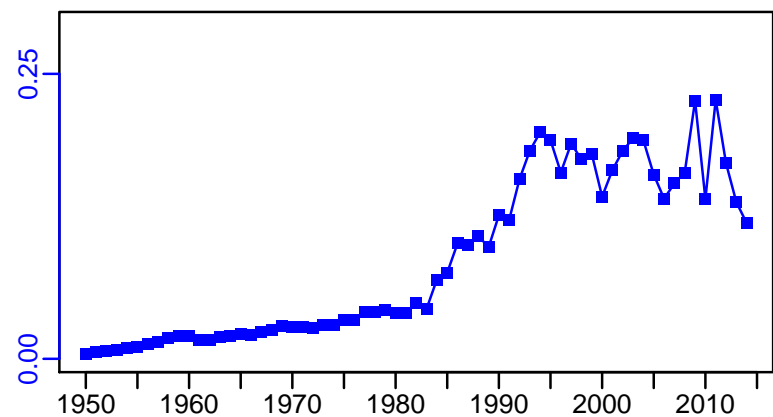
SSB-E00eggs (1950–2014–SISIMP2016)



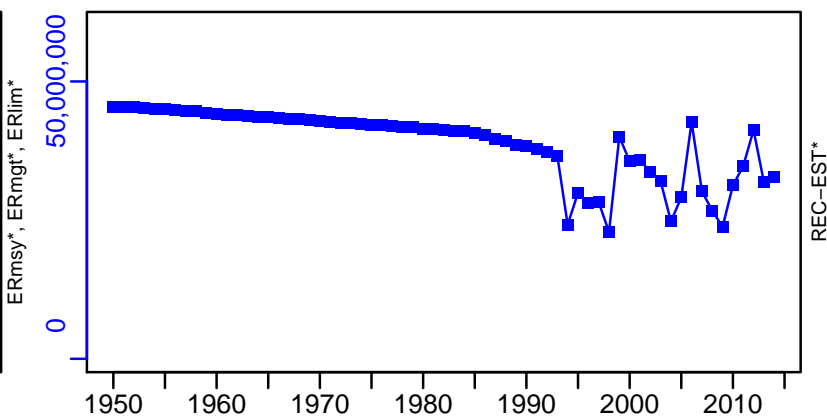
F-1/yr (1950–2014–SISIMP2016)



ER-calc-ratio (1950–2014–SISIMP2016)

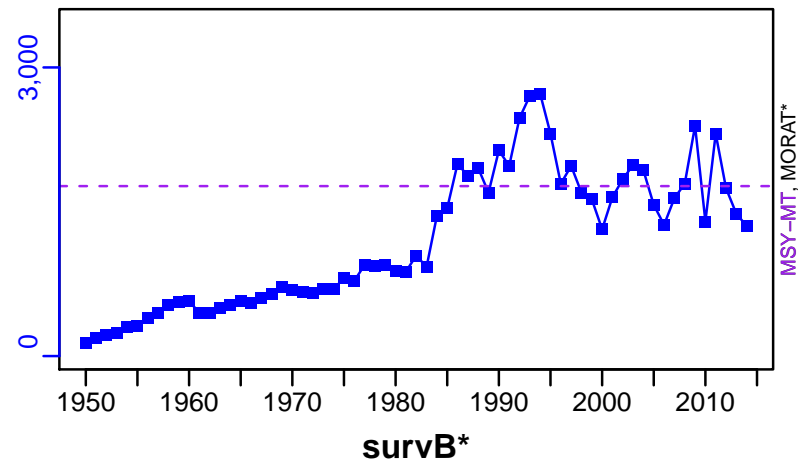


R-E00 (1950–2014–SISIMP2016)



Vermilion snapper Gulf of Mexico [VSNAPGM]

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



TAC*, Cpair*, Cadv*



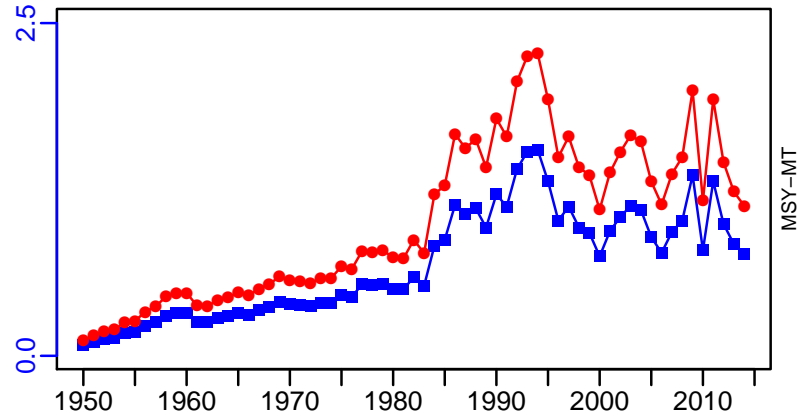
CPUE*



EFFORT*



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



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

Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

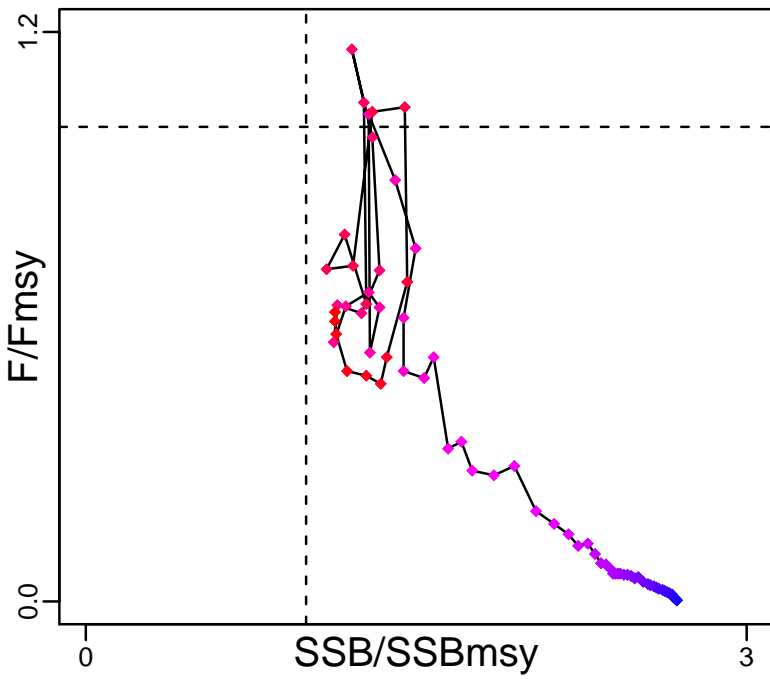
| Metadata | |
|-----------------------------|---|
| Scientific Name | Rhomboplites aurorubens |
| Current Assess ID | SEFSC-VSNAPSATLC-1945-2016-SISIMP2021 |
| Area | Southern Atlantic coast |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast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

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

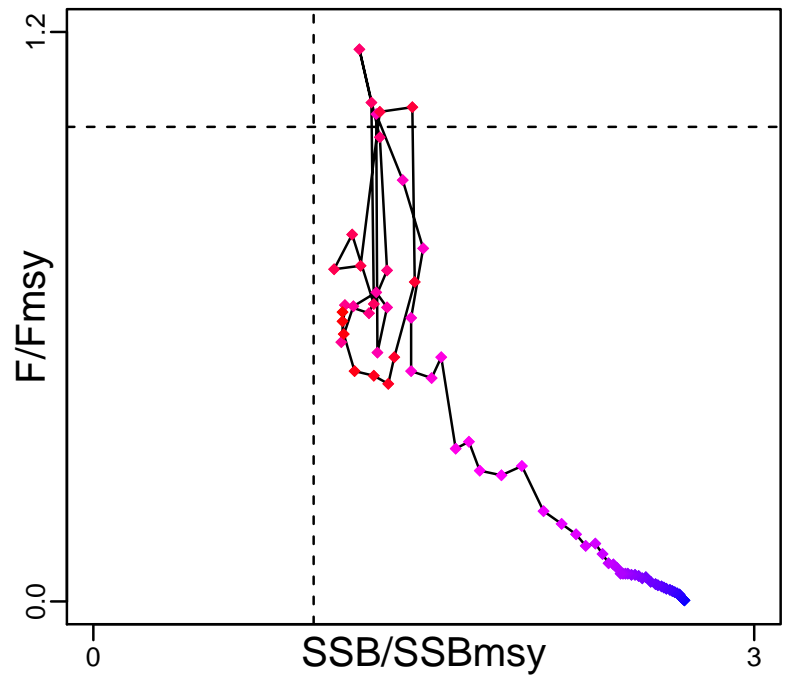
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2012 | 2120 | - | - |
| SSB | SSB-E00eggs | 2016 | 2.07×10^{13} | - | - |
| TN | - | - | - | - | - |
| R |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

Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

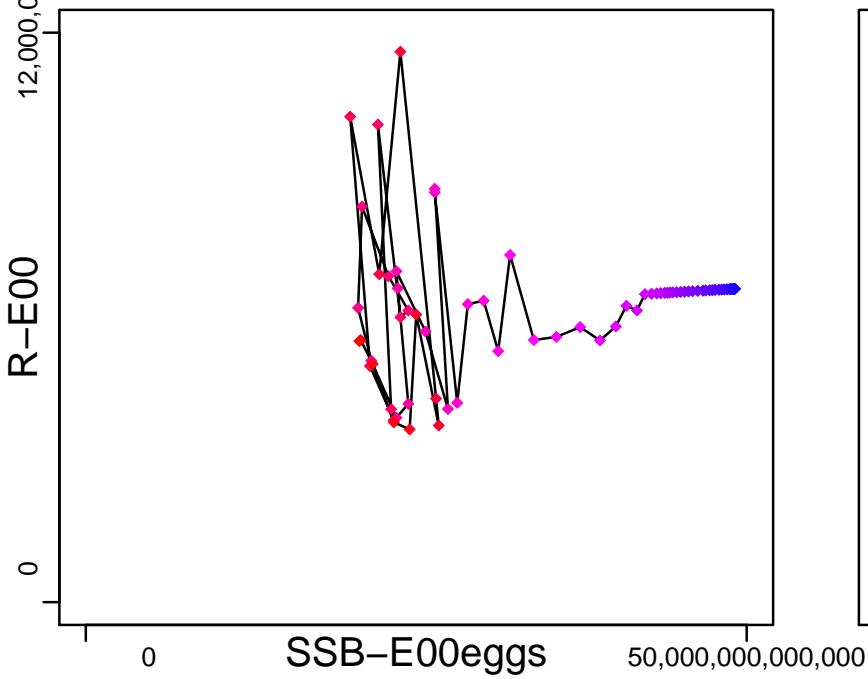
Kobe MSYpref (1945–2016–SISIMP2021)



Kobe MGTpref (1945–2016–SISIMP2021)



Spawner Recruit (1945–2016–SISIMP2021)



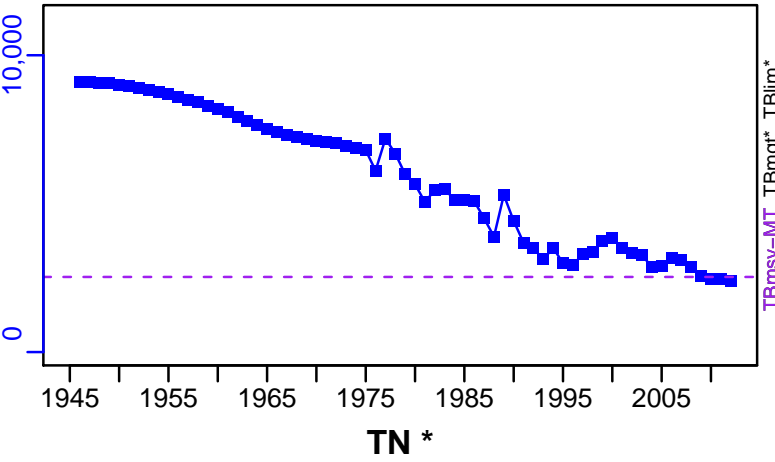
Production*



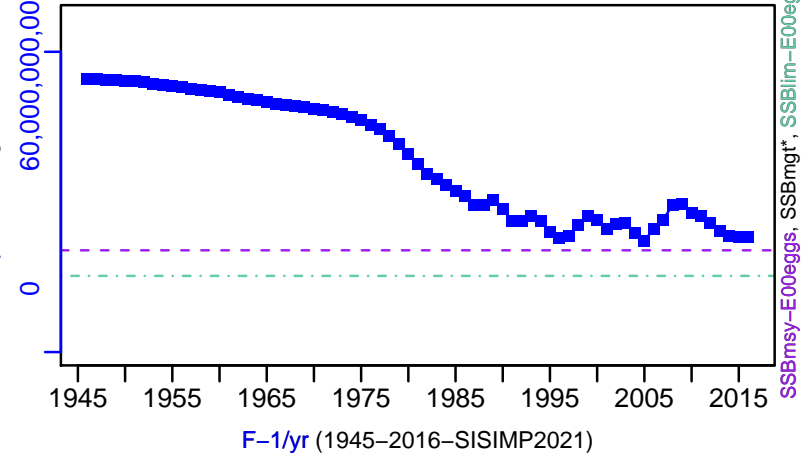
◆ Start Year ◆ End Year * No Data

Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

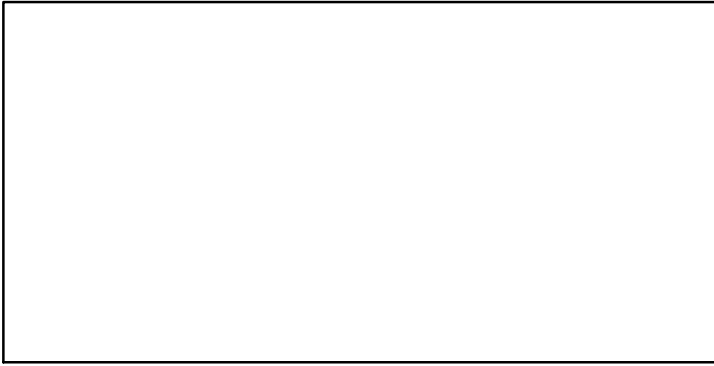
TB-MT (1945-2012-HIVELY)



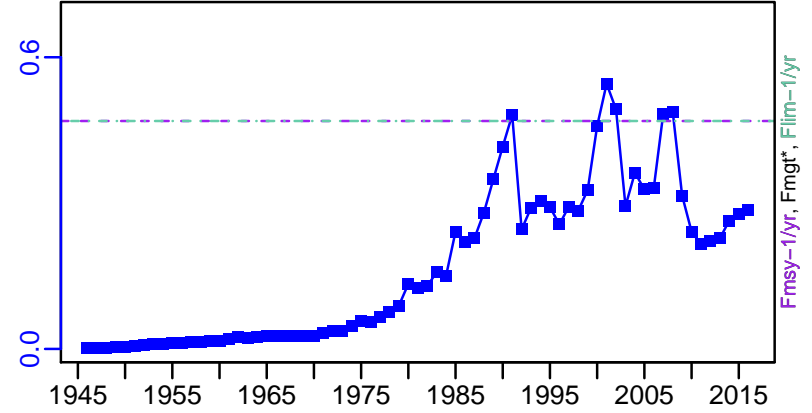
SSB-E00eggs (1945-2016-SISIMP2021)



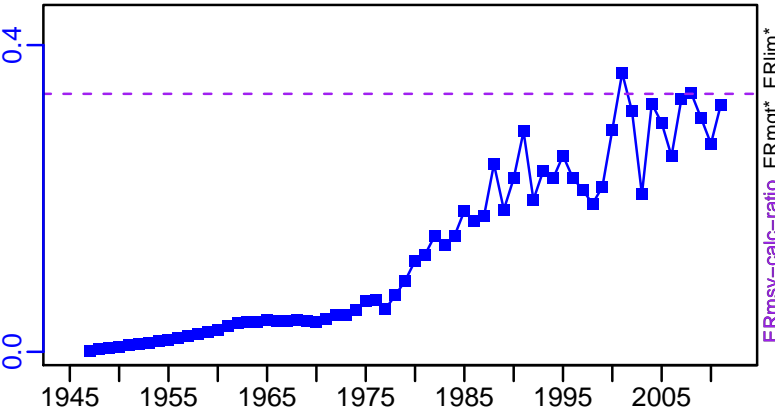
TN *



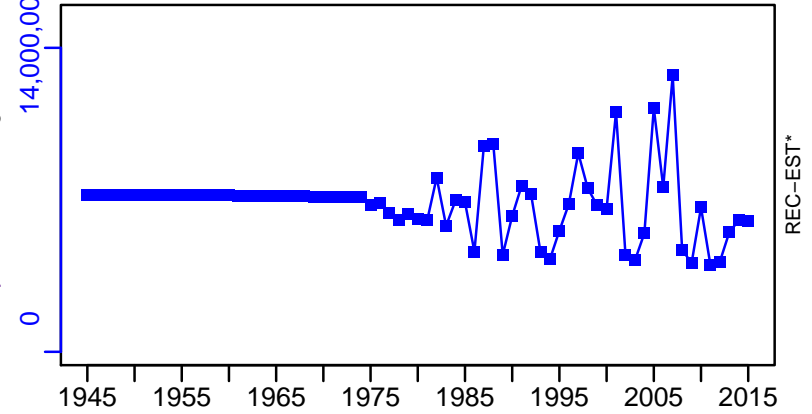
F-1/yr (1945-2016-SISIMP2021)



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

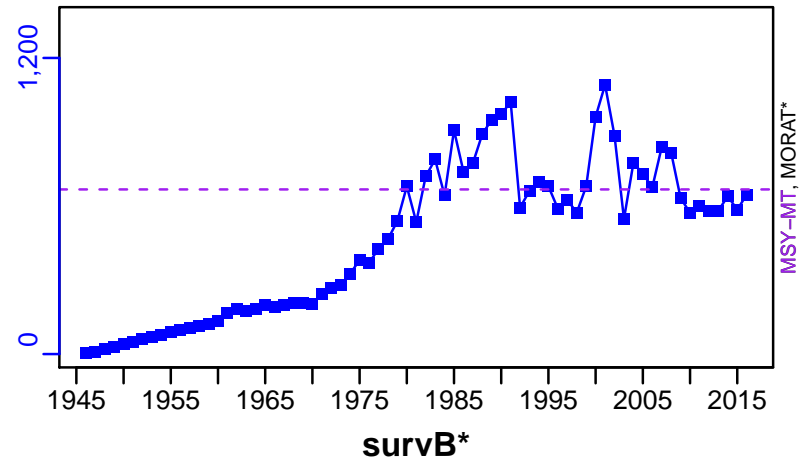


R-E00 (1945-2016-SISIMP2021)



Vermilion snapper Southern Atlantic coast [VSNAPSATLC]

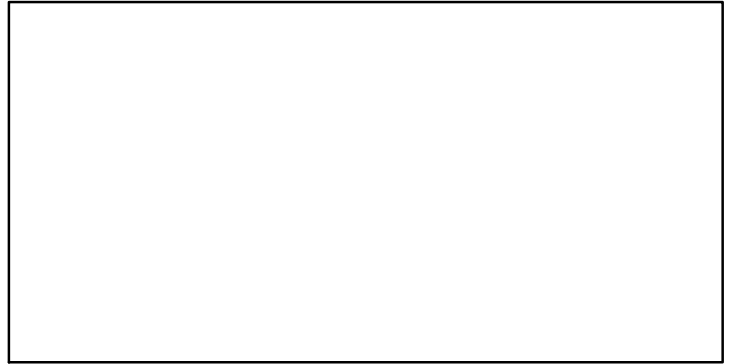
TC-MT, TL*, RecC* (1945–2016–SISIMP2021)



TAC*, Cpair*, Cadv*



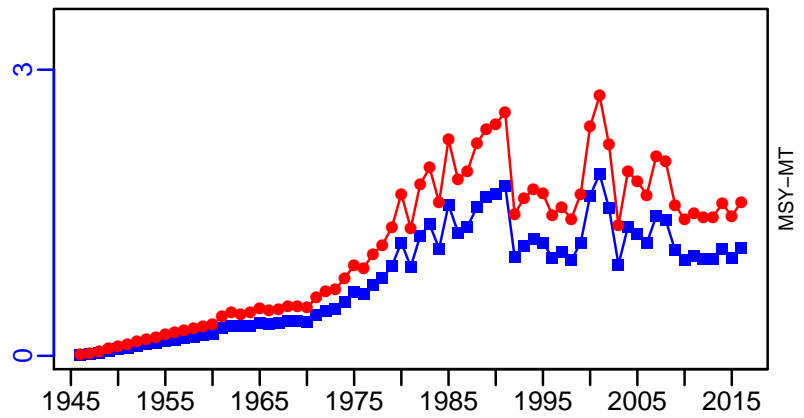
CPUE*



EFFORT*



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



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

White shrimp Gulf of Mexico [WSHRIMPGM]

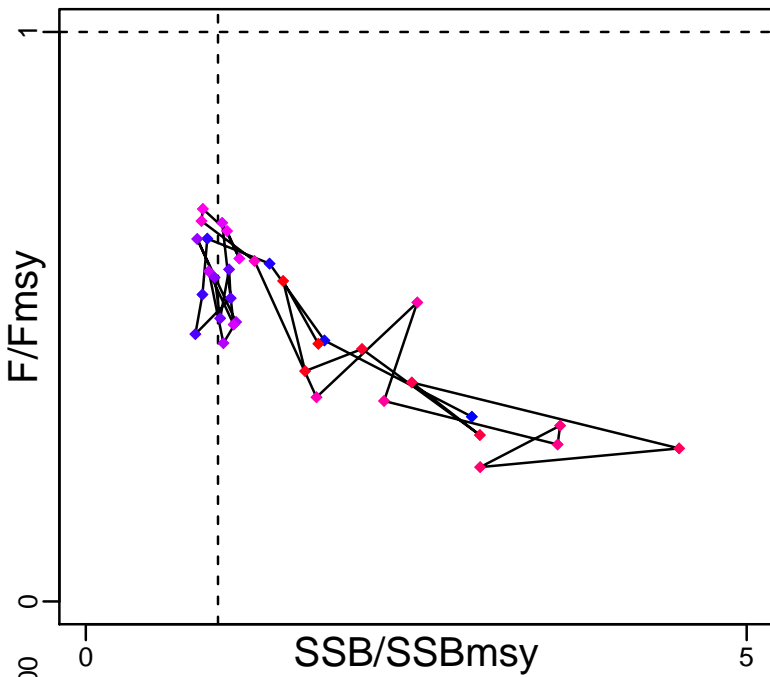
| Metadata | |
|-----------------------------|---|
| Scientific Name | Litopenaeus setiferus |
| Current Assess ID | SEFSC-WSHRIMPGM-1984-2017-SISIMP2021 |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

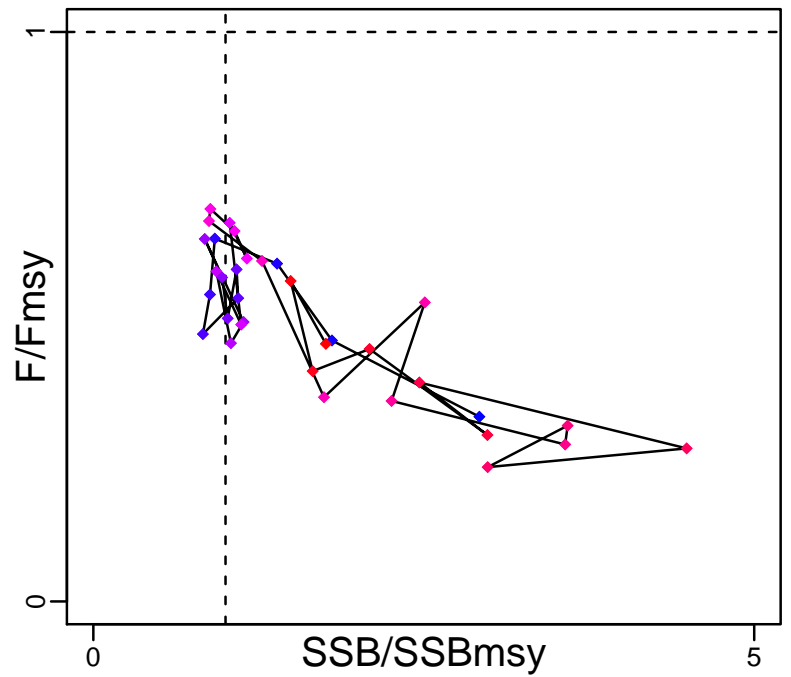
| Time Series | | | | | |
|-------------------|------------------|-----------|----------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2017 | 291,827 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2017 | 16,275,764,420 | - | - |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

White shrimp Gulf of Mexico [WSHRIMPGM]

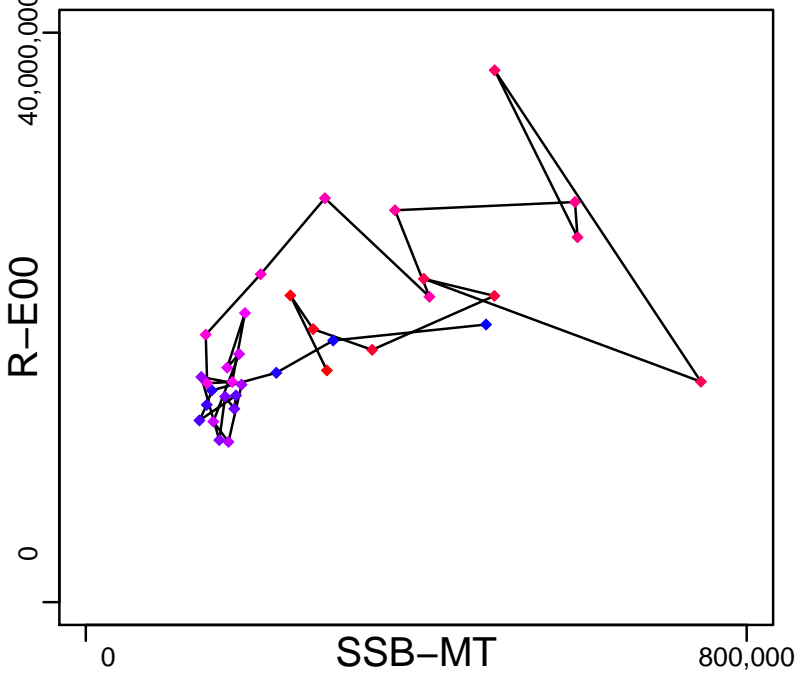
Kobe MSYpref (1984–2017–SISIMP2021)



Kobe MGTpref (1984–2017–SISIMP2021)



Spawner Recruit (1984–2017–SISIMP2021)



Production*



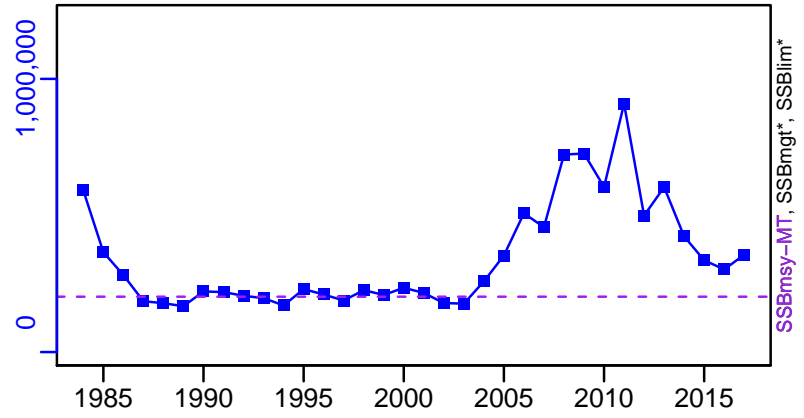
◆ Start Year ◆ End Year * No Data

White shrimp Gulf of Mexico [WSHRIMPGM]

TB*



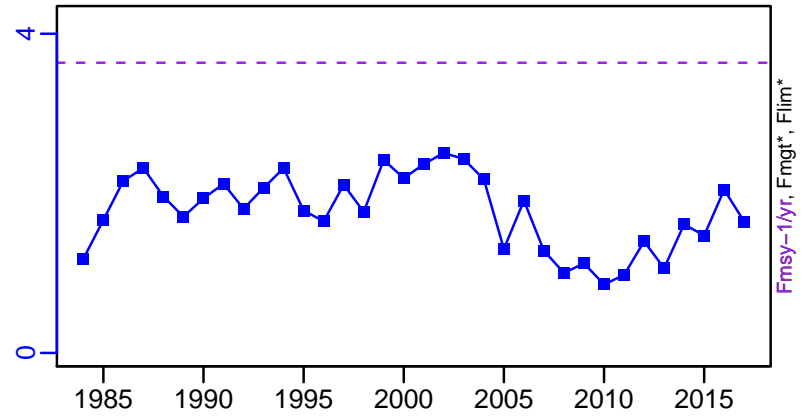
SSB-MT (1984-2017-SISIMP2021)



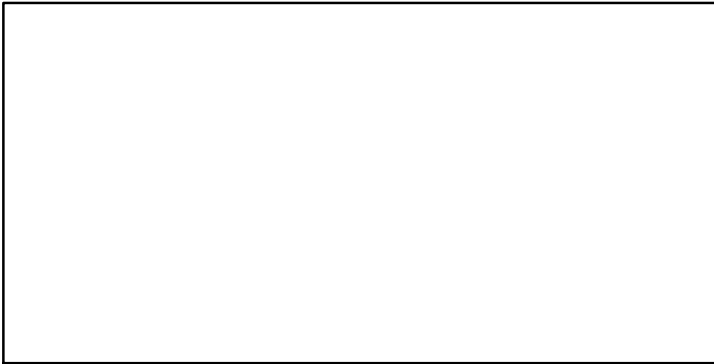
TN *



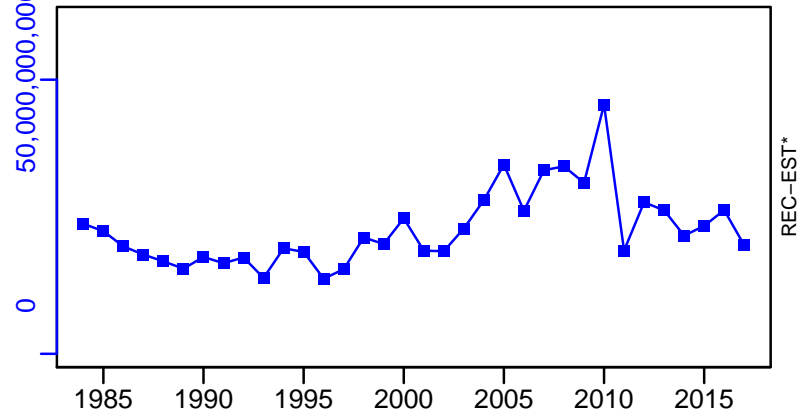
F-1/yr (1984-2017-SISIMP2021)



ER*



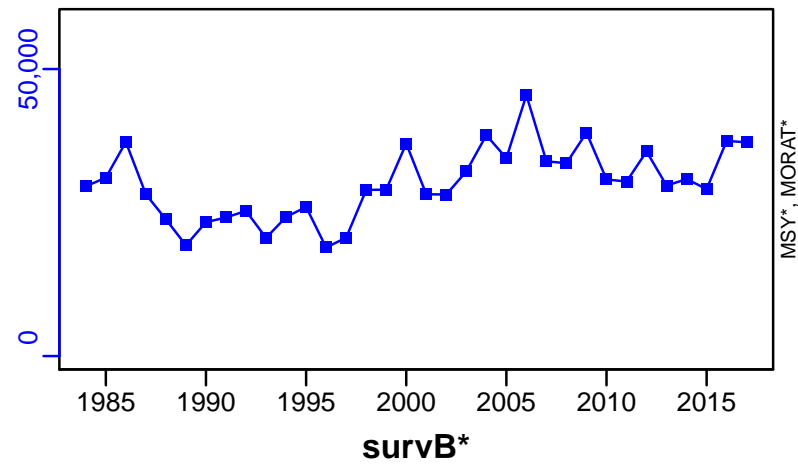
R-E00 (1984-2017-SISIMP2021)



White shrimp Gulf of Mexico [WSHRIMPGM]

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

TAC*, Cpair*, Cadv*



Yellowedge grouper Gulf of Mexico [YEGROUPGM]

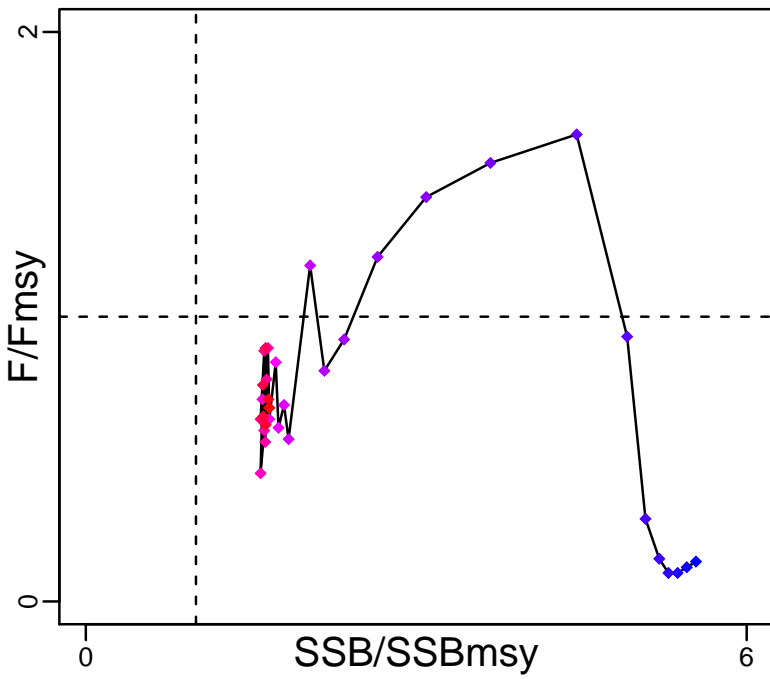
| Metadata | |
|-----------------------------|---|
| Scientific Name | Epinephelus flavolimbatus |
| Current Assess ID | SEFSC-YEGROUPGM-1975-2009-HIVELY |
| Area | Gulf of Mexico |
| Management Authority | National Marine Fisheries Service, US national management |
| Assessor | Southeast Fisheries Science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

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

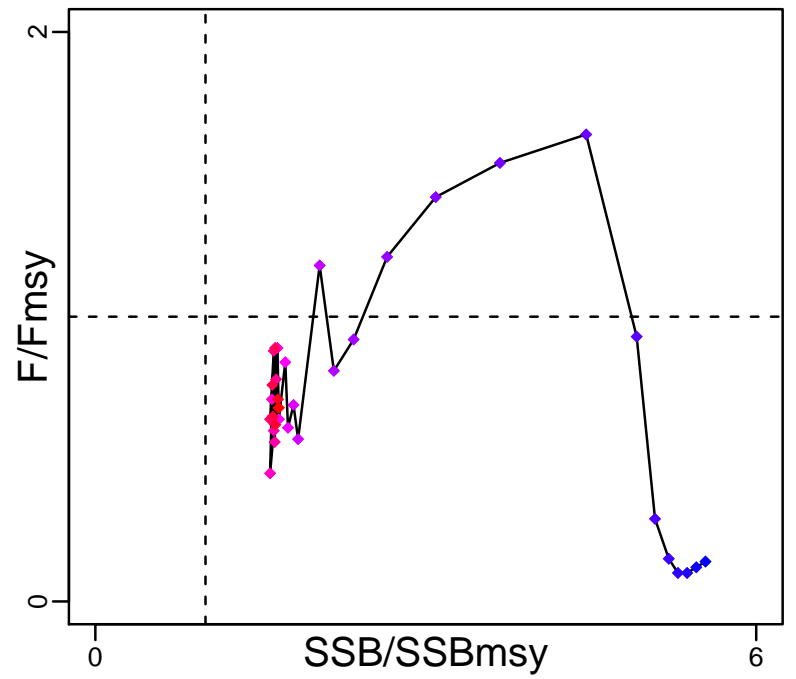
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2009 | 5530 | - | - |
| SSB | SSB-MT | 2009 | 4000 | Both | 8+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2009 | 801,000 | - | - |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

Yellowedge grouper Gulf of Mexico [YEGROUPGM]

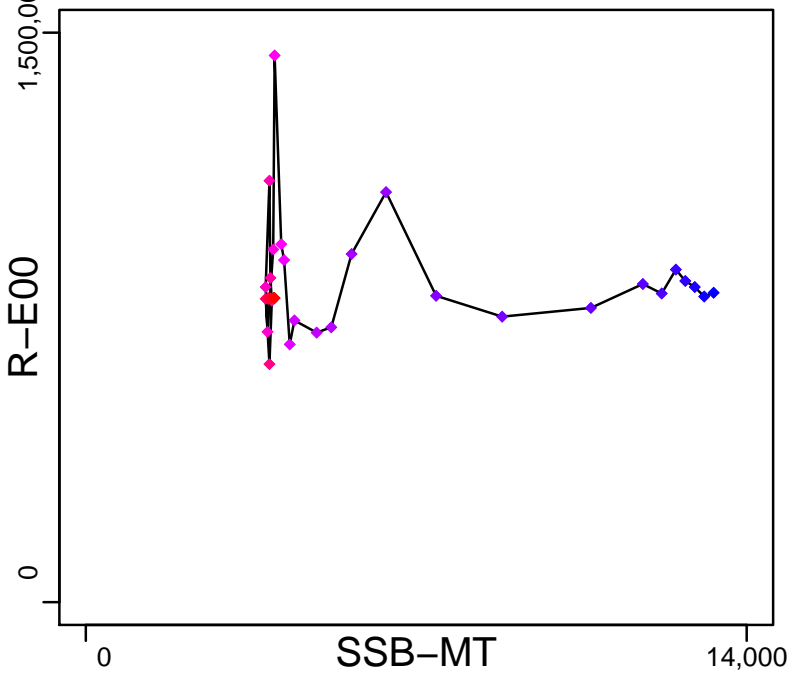
Kobe MSYpref (1975–2009–HIVELY)



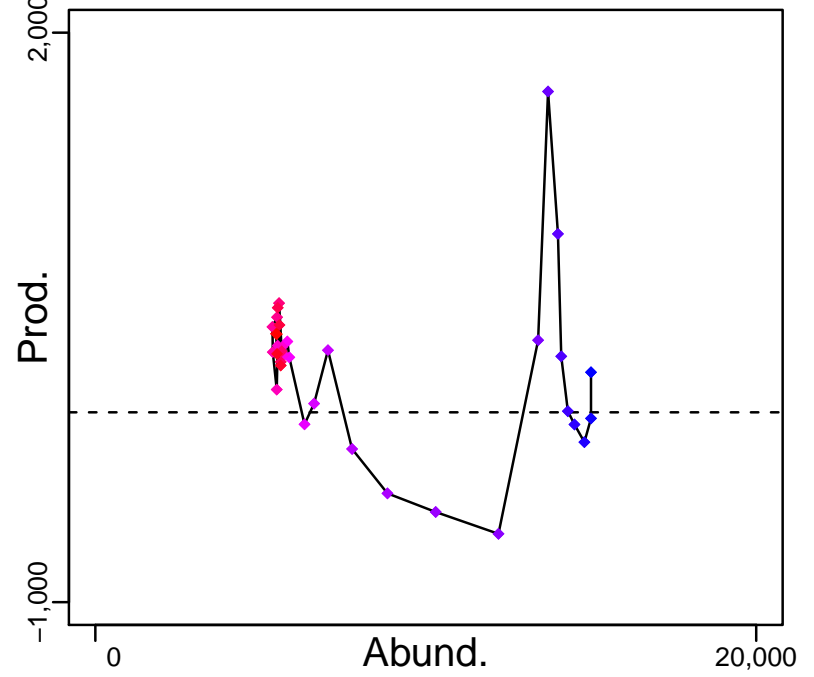
Kobe MGTpref (1975–2009–HIVELY)



Spawner Recruit (1975–2009–HIVELY)



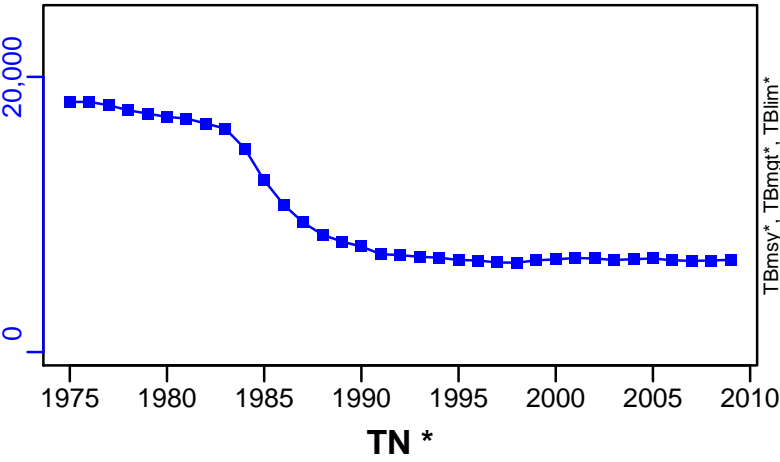
Production (1975–2009–HIVELY)



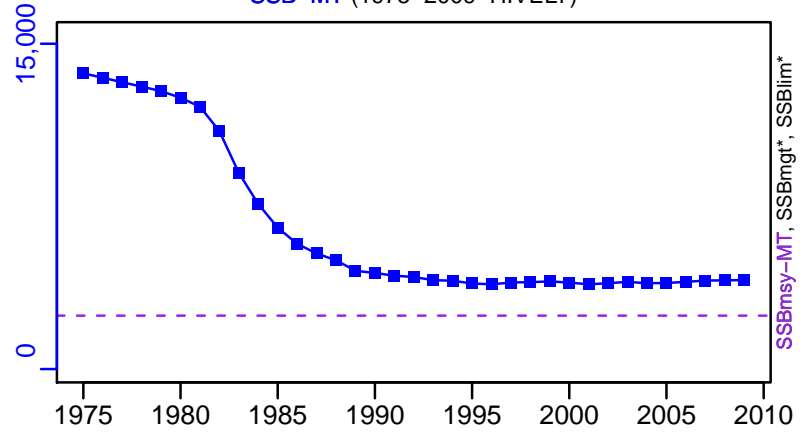
◆ Start Year ◆ End Year * No Data

Yellowedge grouper Gulf of Mexico [YEGROUPGM]

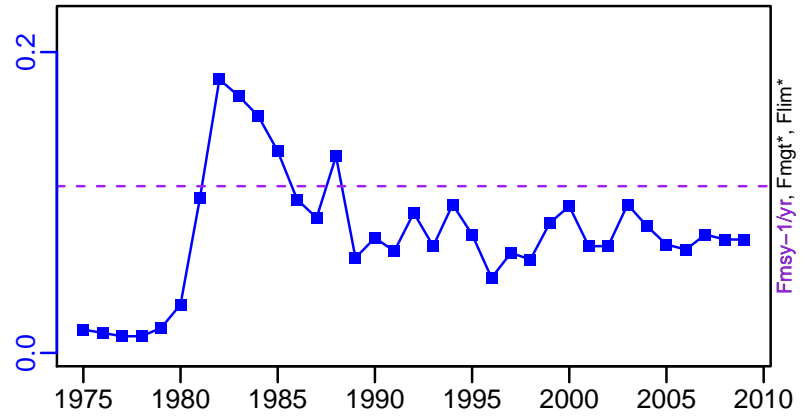
TB-MT (1975–2009–HIVELY)



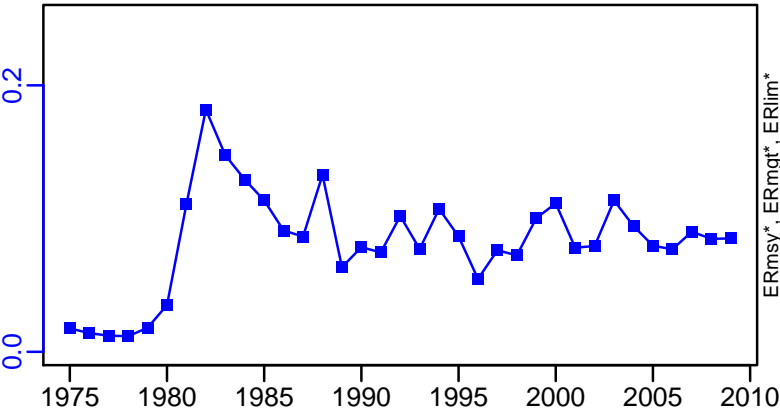
SSB-MT (1975–2009–HIVELY)



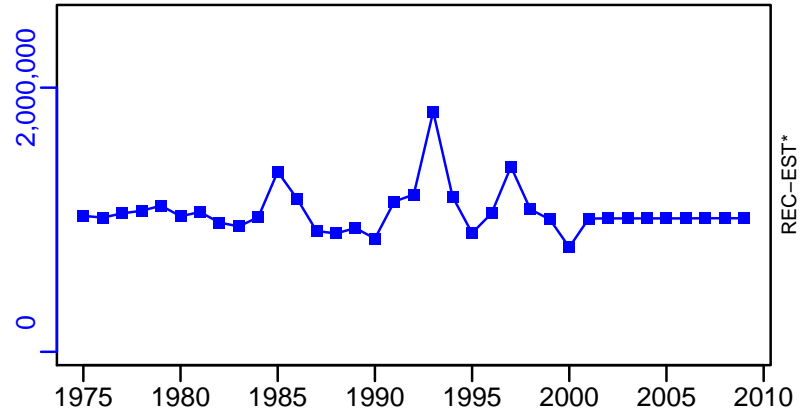
F-1/yr (1975–2009–HIVELY)



ER-calc-ratio (1975–2009–HIVELY)

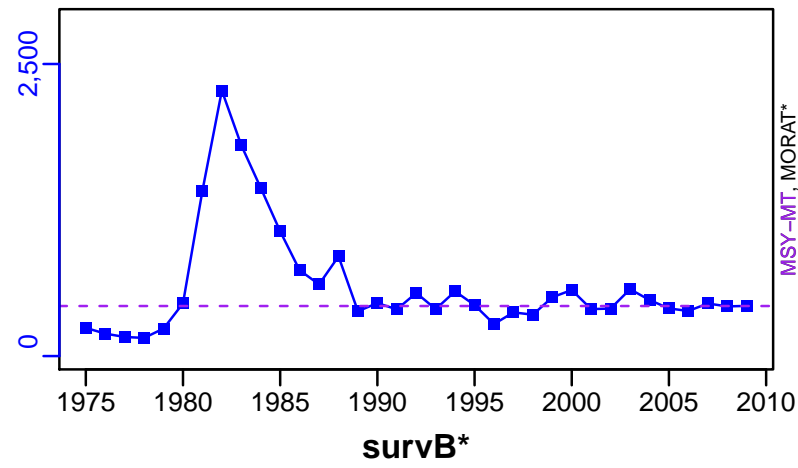


R-E00 (1975–2009–HIVELY)



Yellowedge grouper Gulf of Mexico [YEGROUPGM]

TL-MT, TC*, RecC* (1975–2009–HIVELY)



TAC*, Cpair*, Cadv*



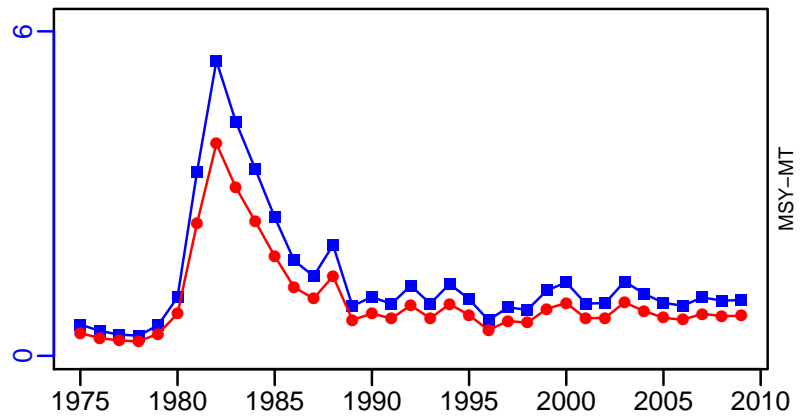
CPUE*



EFFORT*



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



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

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

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

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

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

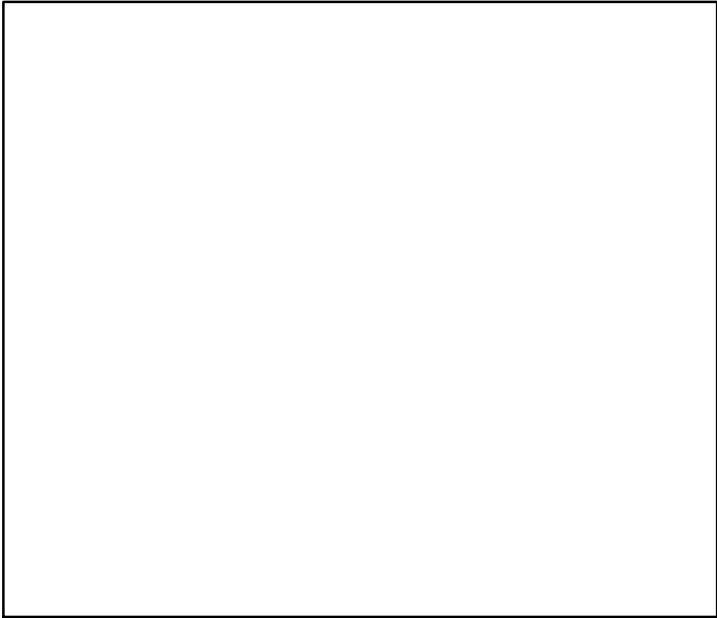
Kobe MSY*



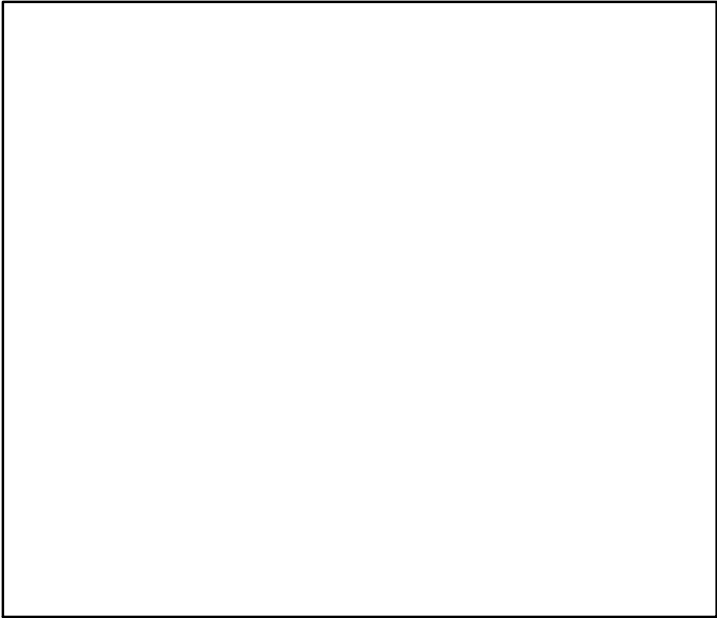
Kobe MGT*



Spawner Recruit*



Production*

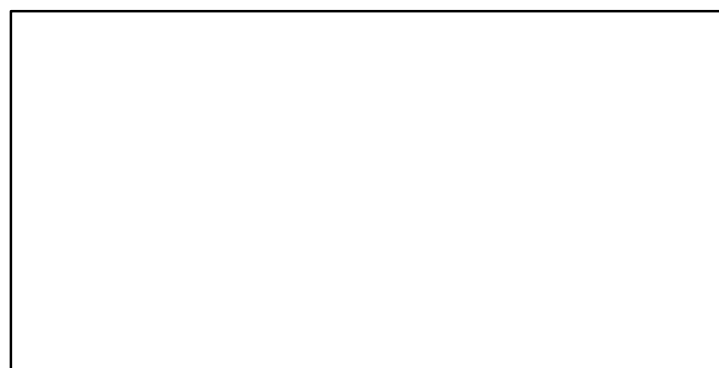
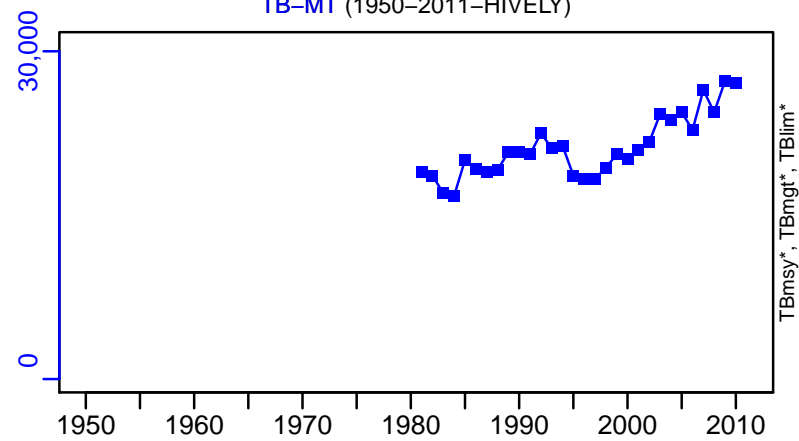


◆ Start Year ◆ End Year * No Data

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

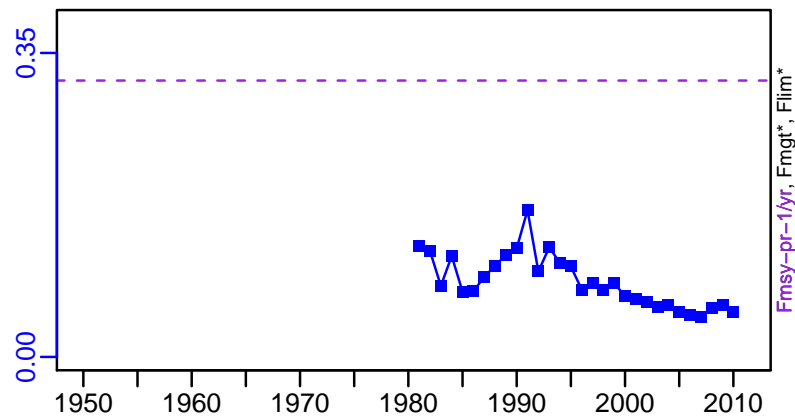
TB-MT (1950–2011–HIVELY)

SSB*



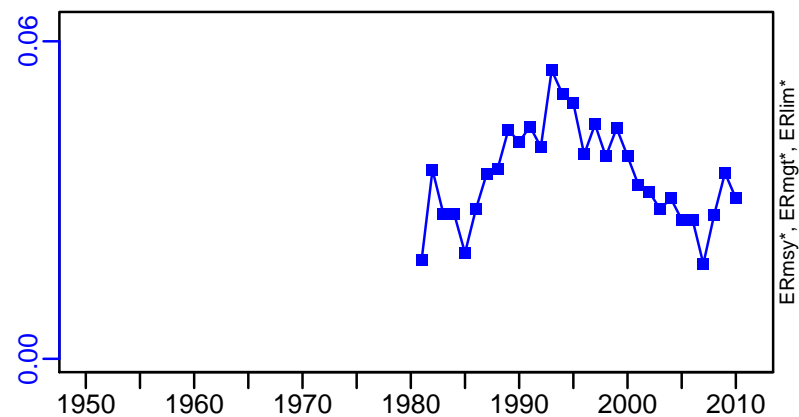
TN *

F-1/yr (1950–2011–HIVELY)



ER-calc-ratio (1950–2011–HIVELY)

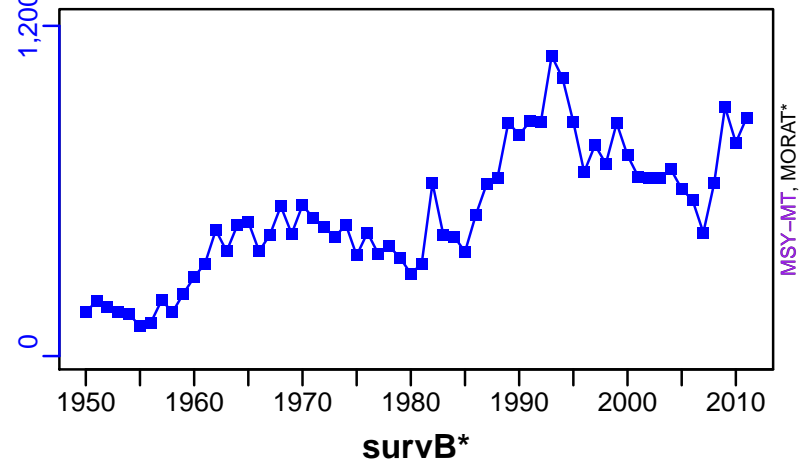
Recruits*



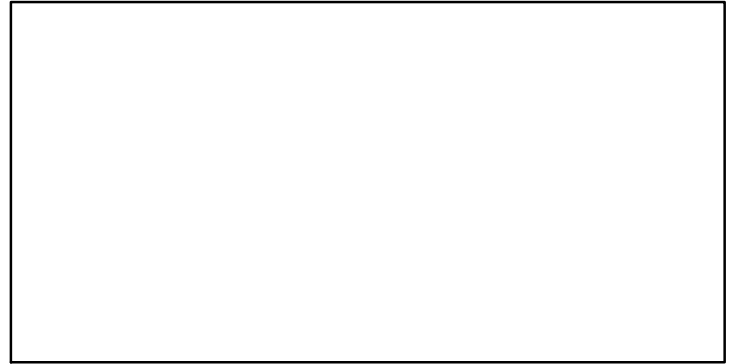
Yellowtail snapper Southern Atlantic coast and Gulf of Mexico [YTSNAPSATLCGM]

TL-MT, TC*, RecC* (1950–2011–HIVELY)

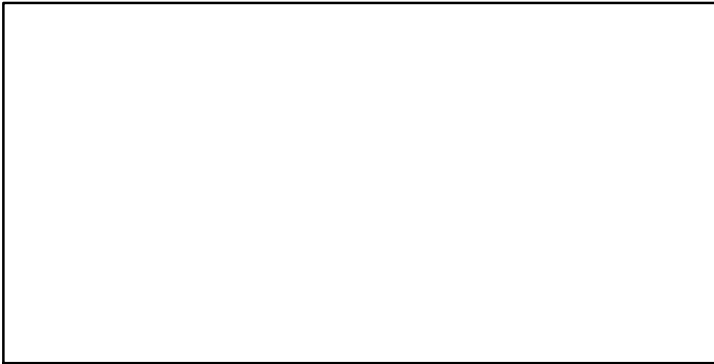
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

