

West Africa Stocks

v4.25 (Dec-14-2017)

1. Anchovy West Africa [ANCHOWA]
2. Bobo croaker West Africa Subgroup 1 [BCROAKWASG1]
3. Bigeye Grunt West Africa Subgroup 2 [BGRUNTWASG2]
4. Bigeye Grunt West Africa Subgroup 3 [BGRUNTWASG3]
5. Benguela Hake West Africa Subgroup 3 [BHAKEWASG3]
6. Bonga West Africa [BONGAWA]
7. Seabream West Africa Subgroup 1 [BRMSPPWASG1]
8. Seabream West Africa Subgroup 2 [BRMSPPWASG2]
9. Seabream West Africa Subgroup 3 [BRMSPPWASG3]
10. Catfish West Africa Subgroup 1 [CATWASG1]
11. Catfish West Africa Subgroup 3 [CATWASG3]
12. Cunene Horse Mackerel West Africa [CHMACKWA]
13. Chub Mackerel West Africa [CMACKWA]
14. Croaker West Africa Subgroup 1 [CROAKSPPWASG1]
15. Croaker West Africa Subgroup 2 [CROAKSPPWASG2]
16. Croaker West Africa Subgroup 3 [CROAKSPPWASG3]
17. Coastal Shrimp West Africa [CSHRIMPWA]
18. Cuttlefish West Africa [CUTTLEWA]
19. Deepwater Rose Shrimp West Africa [DRSHRIMPWA]
20. False Scad West Africa [FSCADWA]
21. Grey Grunt West Africa Subgroup 1 [GGRUNTWASG1]
22. Grey Grunt West Africa Subgroup 3 [GGRUNTWASG3]
23. Horse Mackerel West Africa [HMACKWA]
24. Large-eye Dentex West Africa Subgroup 3 [LDENTWASG3]
25. Octopus West Africa [OCTOWA]
26. Red Pandora West Africa Subgroup 2 [RPANDWASG2]
27. Round Sardinella West Africa [RSARDINWA]
28. Sardinella West Africa [SARDINWA]
29. Sardine West Africa Zone A+B [SARDWAZAB]
30. Sardine West Africa Zone C [SARDWAZC]
31. Sole West Africa Subgroup 1 [SOLEWASG1]
32. Sole West Africa Subgroup 3 [SOLEWASG3]
33. Southern Pink Shrimp West Africa [SPSHRIMPWA]
34. Threadfin West Africa Subgroup 1 [THREADWASG1]
35. Threadfin West Africa Subgroup 2 [THREADWASG2]
36. Threadfin West Africa Subgroup 3 [THREADWASG3]

Anchovy West Africa [ANCHOWA]

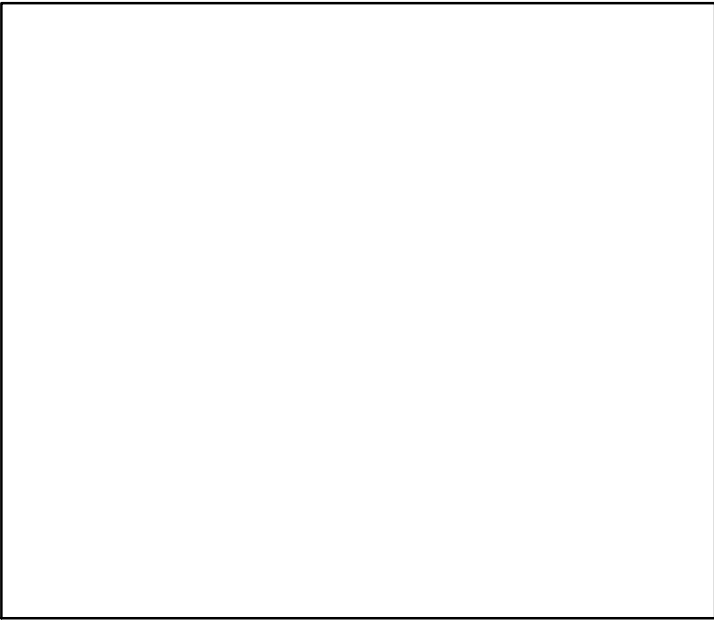
| Metadata | |
|-----------------------------|--|
| Scientific Name | Engraulis encrasicolus |
| Current Assess ID | FAO-SPNWA-ANCHOWA-1990-2010-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

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

| Time Series | | | | | |
|-------------|---------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2010 | 143,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 1 | - | - |
| ER | ER-calc-ratio | 2010 | 1 | - | - |
| TC | TC-MT | 2010 | 120,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Anchovy West Africa [ANCHOWA]

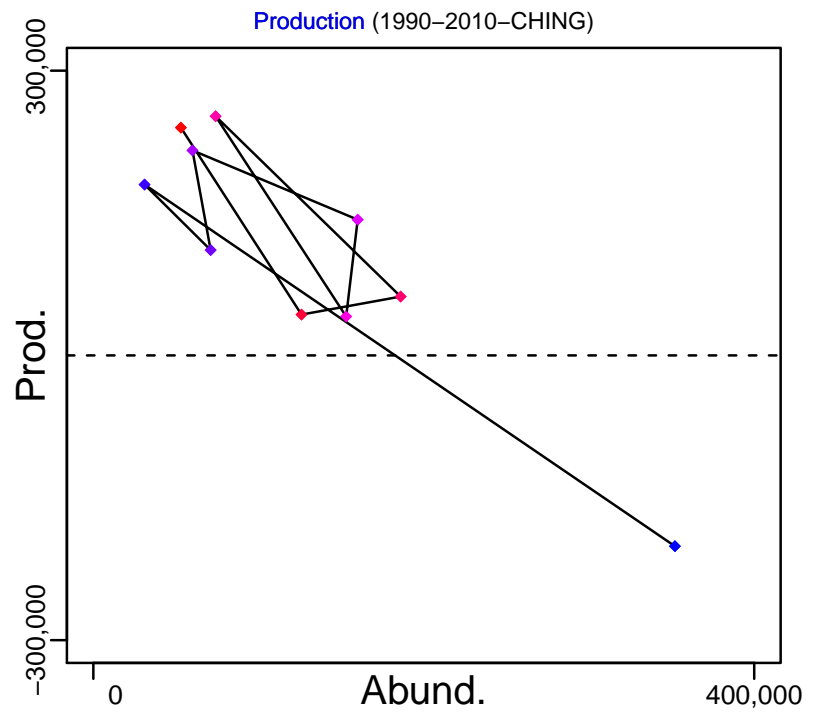
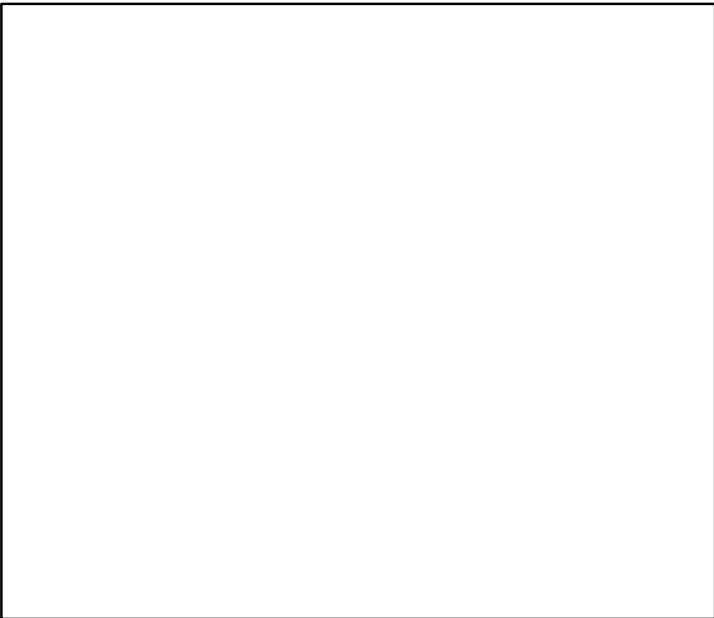
Kobe MSY*



Kobe MGT*



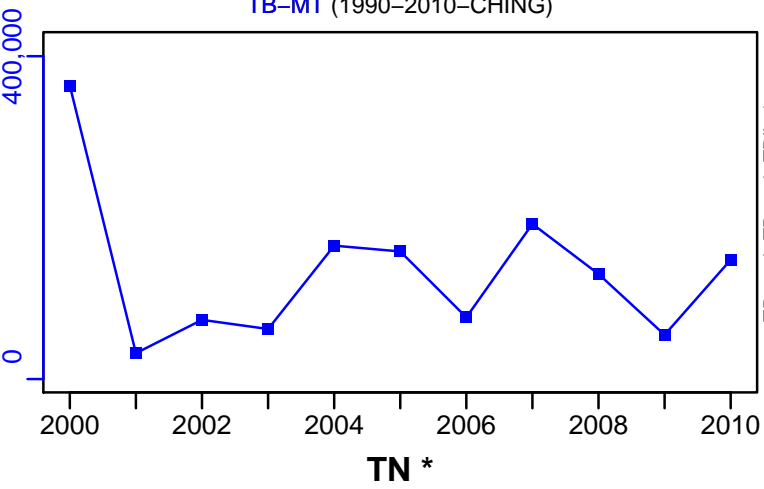
Spawner Recruit*



◆ Start Year ◆ End Year * No Data

Anchovy West Africa [ANCHOWA]

TB-MT (1990-2010-CHING)



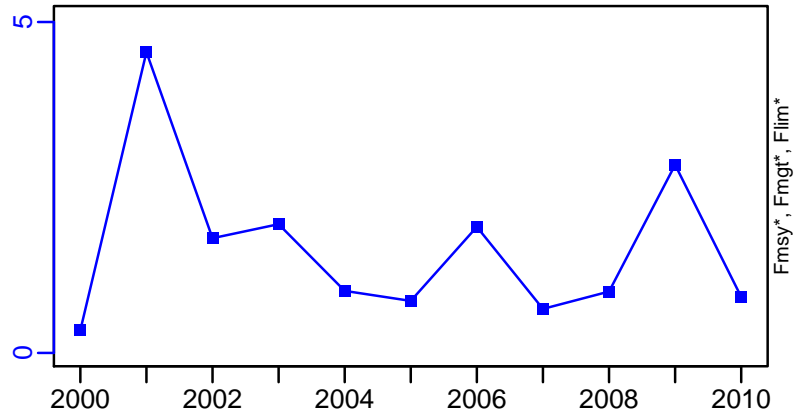
SSB*



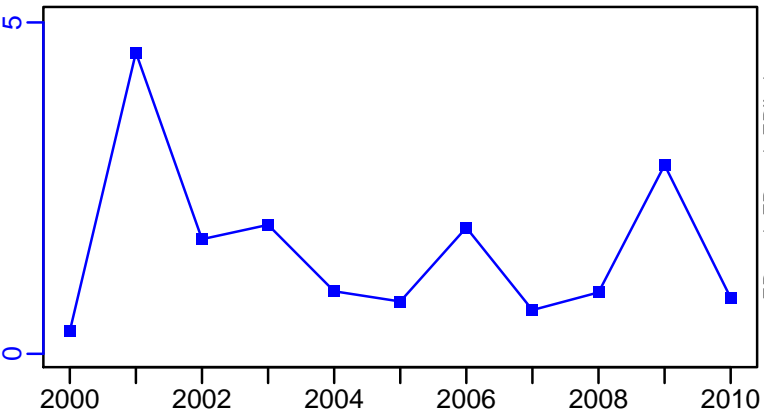
TN *



F-1/yr (1990-2010-CHING)



ER-calc-ratio (1990-2010-CHING)

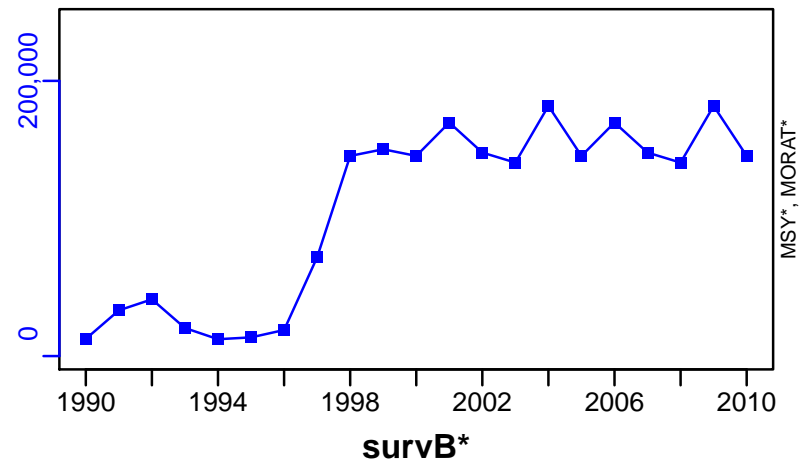


Recruits*



Anchovy West Africa [ANCHOWA]

TC-MT, TL*, RecC* (1990-2010-CHING)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Bobo croaker West Africa Subgroup 1 [BCROAKWASG1]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Pseudotolithus elongatus |
| Current Assess ID | FAO-DRSS-BCROAKWASG1-1994-2007-CHING |
| Area | West Africa Subgroup 1 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Bobo croaker West Africa Subgroup 1 [BCROAKWASG1]

TB*



SSB*



TN *



F*



ER*



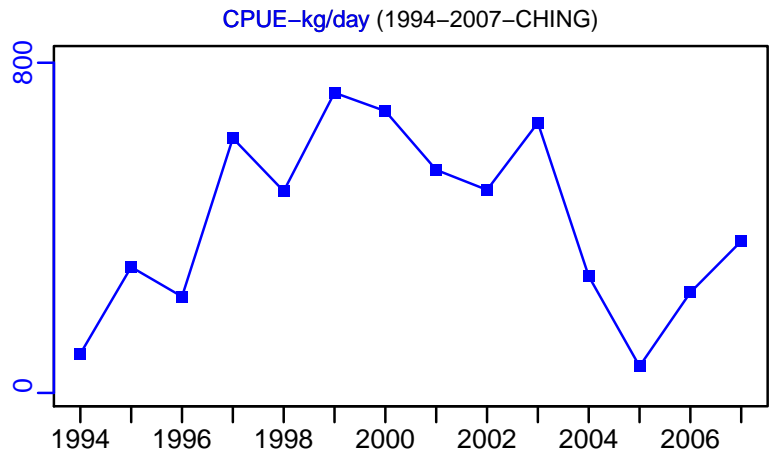
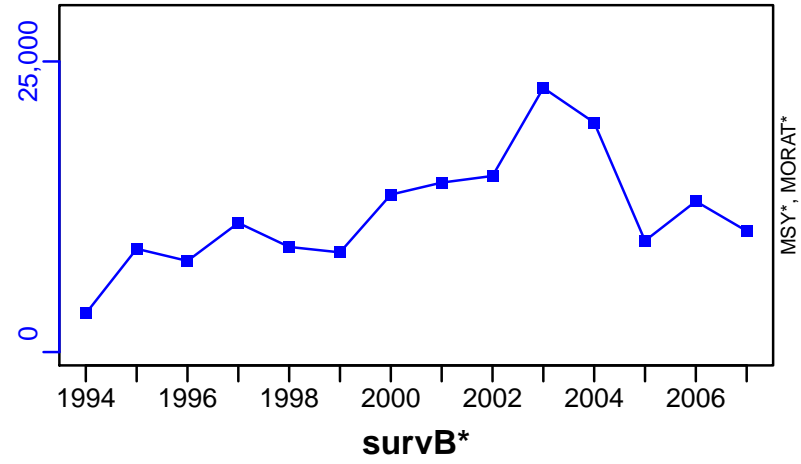
Recruits*



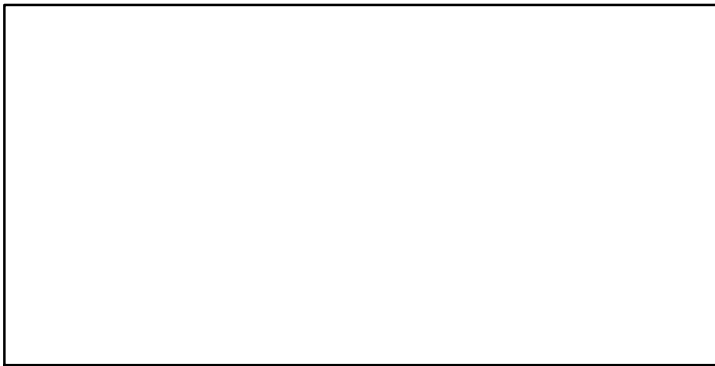
Bobo croaker West Africa Subgroup 1 [BCROAKWASG1]

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

TAC*, Cpair*, Cadv*



EFFORT*



Bigeye Grunt West Africa Subgroup 2 [BGRUNTWASG2]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Brachydeuterus auritus |
| Current Assess ID | FAO-DRSS-BGRUNTWASG2-1990-2006-CHING |
| Area | West Africa Subgroup 2 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2006 |

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

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

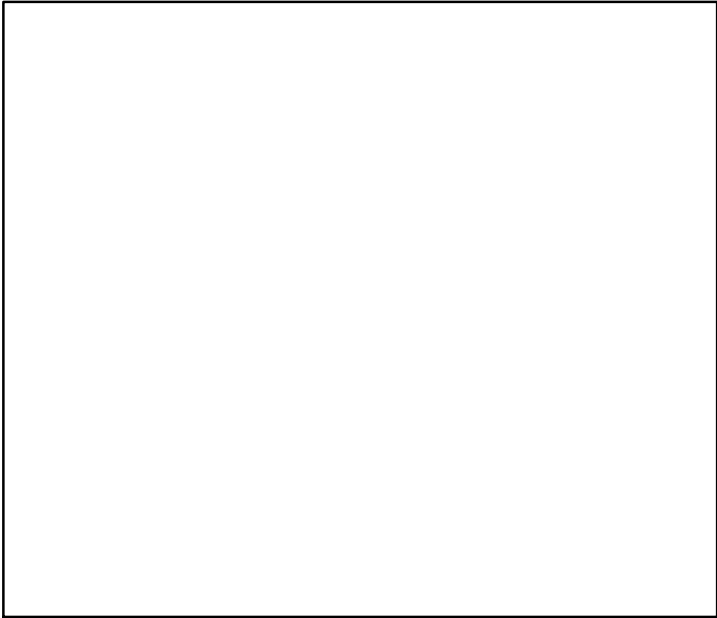
Kobe MSY*



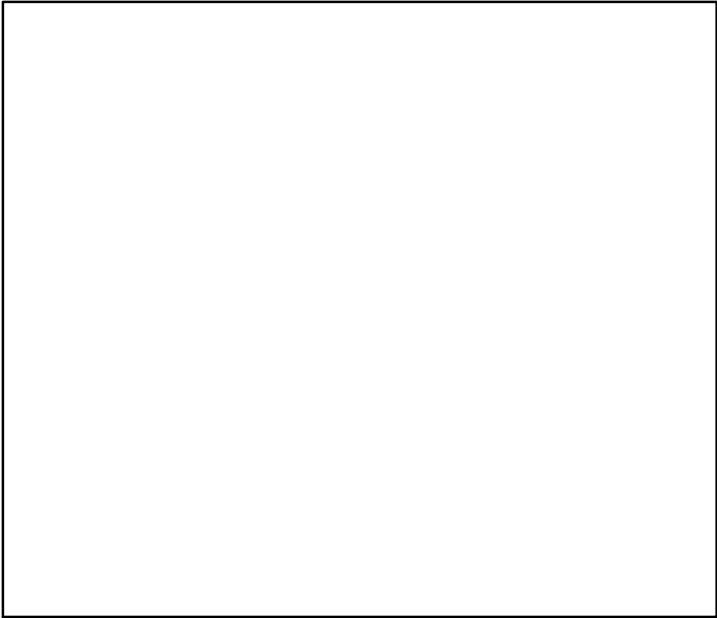
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Bigeye Grunt West Africa Subgroup 2 [BGRUNTWASG2]

TB*



SSB*



TN *



F*



ER*

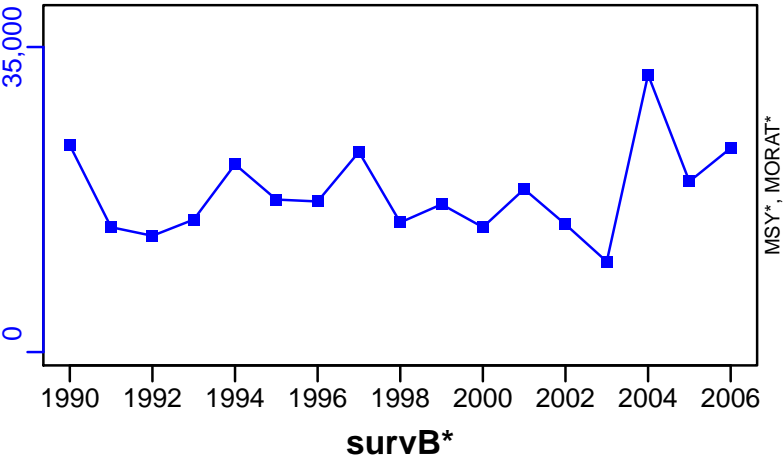


Recruits*



Bigeye Grunt West Africa Subgroup 2 [BGRUNTWASG2]

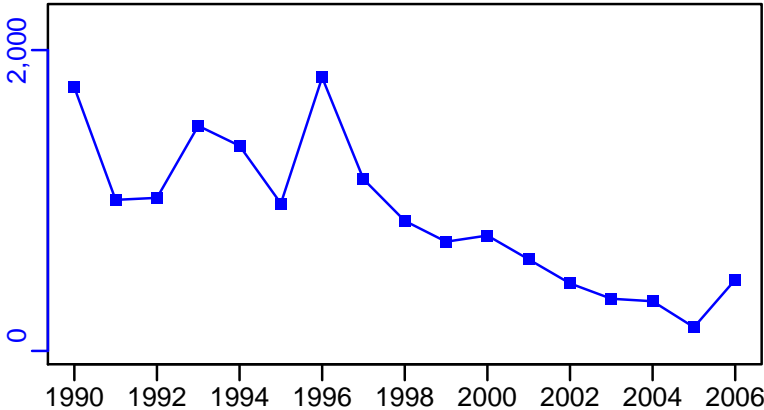
TC-MT, TL*, RecC* (1990-2006-CHING)



TAC*, Cpair*, Cadv*



CPUE-kg/day (1990-2006-CHING)



EFFORT*



Bigeye Grunt West Africa Subgroup 3 [BGRUNTWASG3]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Brachydeuterus auritus |
| Current Assess ID | FAO-DRSS-BGRUNTWASG3-1995-2007-CHING |
| Area | West Africa Subgroup 3 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



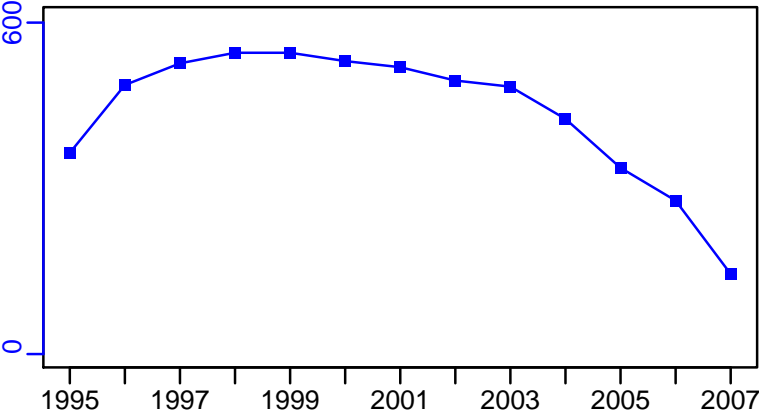
Production*



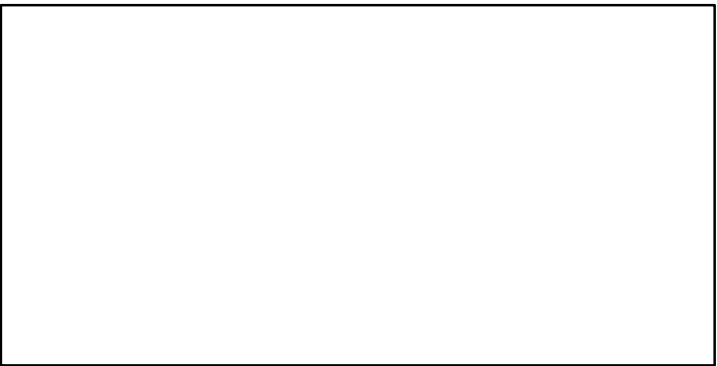
◆ Start Year ◆ End Year * No Data

Bigeye Grunt West Africa Subgroup 3 [BGRUNTWASG3]

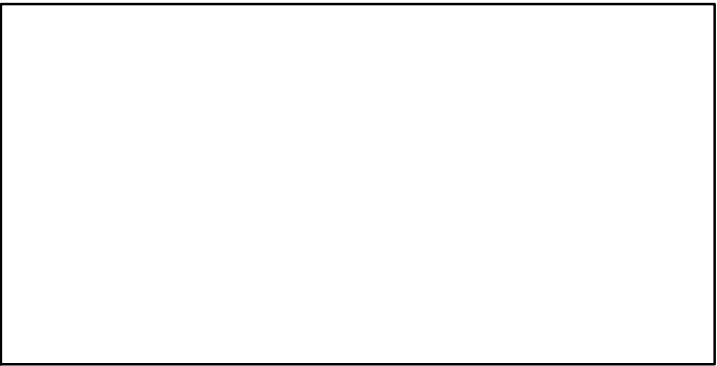
TB-index (1995–2007–CHING)



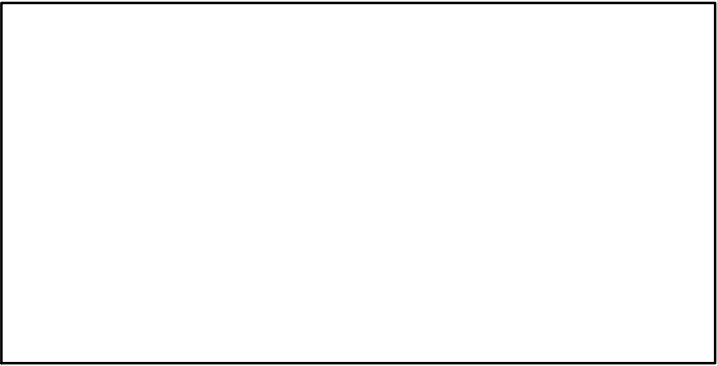
SSB*



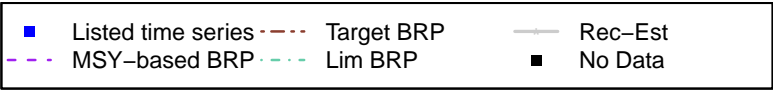
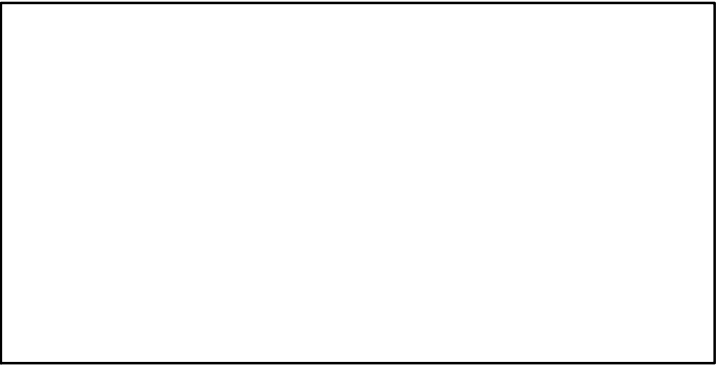
F*



ER*

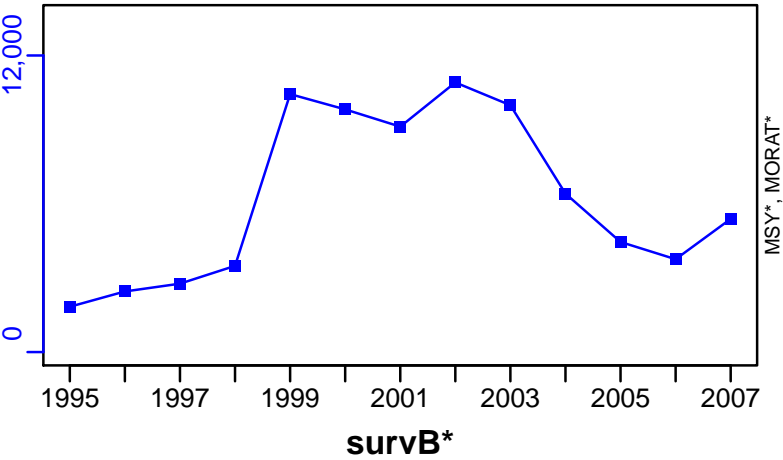


Recruits*



Bigeye Grunt West Africa Subgroup 3 [BGRUNTWASG3]

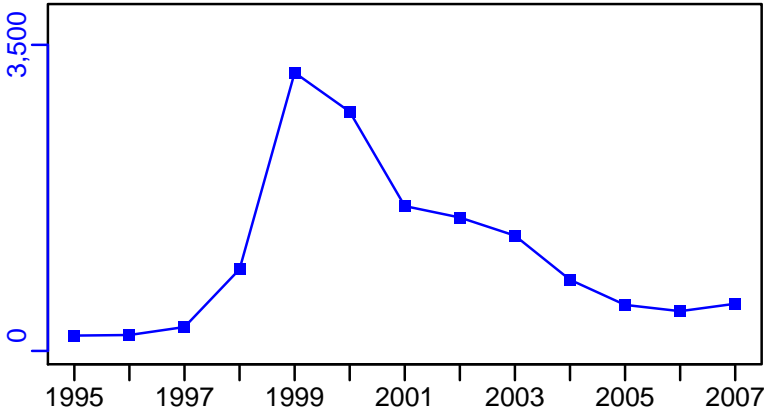
TC-MT, TL*, RecC* (1995-2007-CHING)



TAC*, Cpair*, Cadv*



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



EFFORT*



Benguela Hake West Africa Subgroup 3 [BHAKEWASG3]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Merluccius polli |
| Current Assess ID | FAO-DRSS-BHAKEWASG3-1995-2007-CHING |
| Area | West Africa Subgroup 3 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

| Time Series | | | | | |
|-------------|-------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2007 | 4180 | | |
| 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*

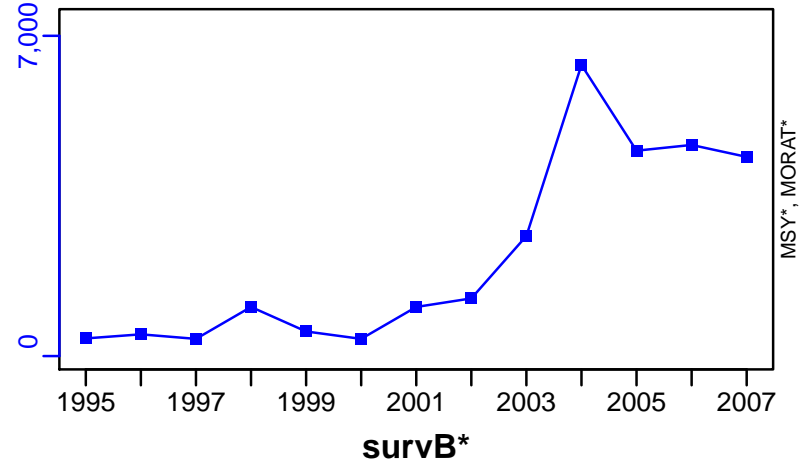


Recruits*



Benguela Hake West Africa Subgroup 3 [BHAKEWASG3]

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



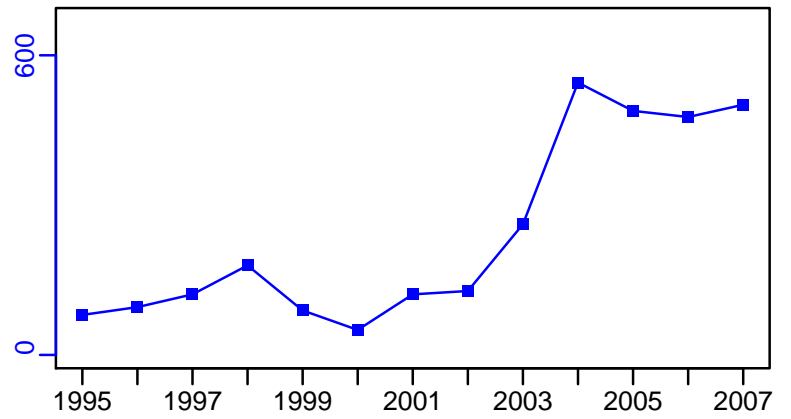
TAC*, Cpair*, Cadv*



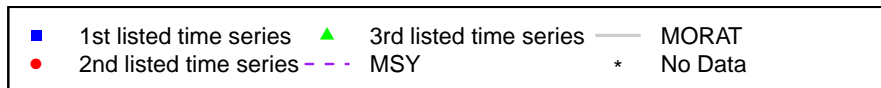
survB*



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



EFFORT*



Bonga West Africa [BONGAWA]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Ethmalosa fimbriata |
| Current Assess ID | FAO-SPNWA-BONGAWA-1990-2010-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

| 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 | 2010 | 23,400 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Bonga West Africa [BONGAWA]

TB*



SSB*



TN *



F*



ER*

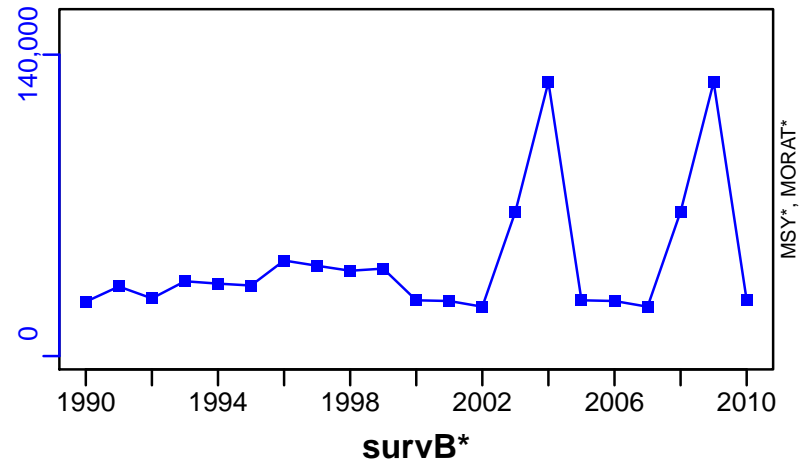


Recruits*



Bonga West Africa [BONGAWA]

TC-MT, TL*, RecC* (1990-2010-CHING)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Seabream West Africa Subgroup 1 [BRMSPPWASG1]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Dentex spp |
| Current Assess ID | FAO-DRSS-BRMSPPWASG1-1994-2007-CHING |
| Area | West Africa Subgroup 1 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

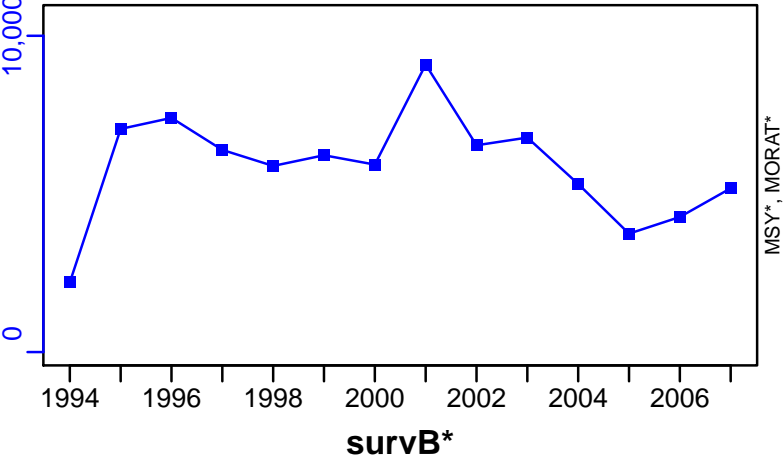


Recruits*



Seabream West Africa Subgroup 1 [BRMSPPWASG1]

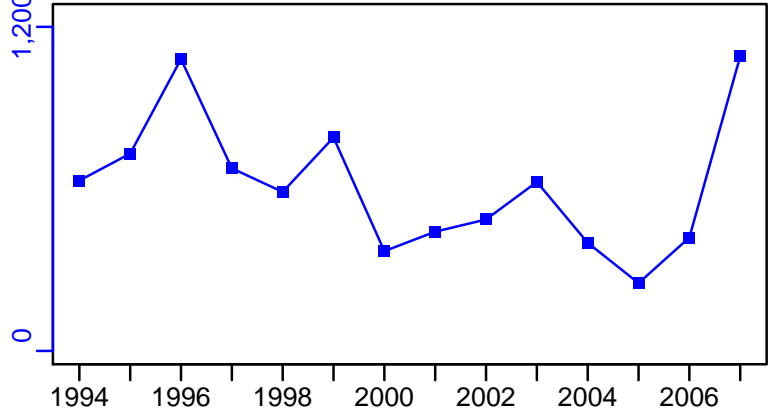
TC-MT, TL*, RecC* (1994-2007-CHING)



TAC*, Cpair*, Cadv*



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



EFFORT*



Seabream West Africa Subgroup 2 [BRMSPPWASG2]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Dentex spp |
| Current Assess ID | FAO-DRSS-BRMSPPWASG2-1990-2007-CHING |
| Area | West Africa Subgroup 2 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



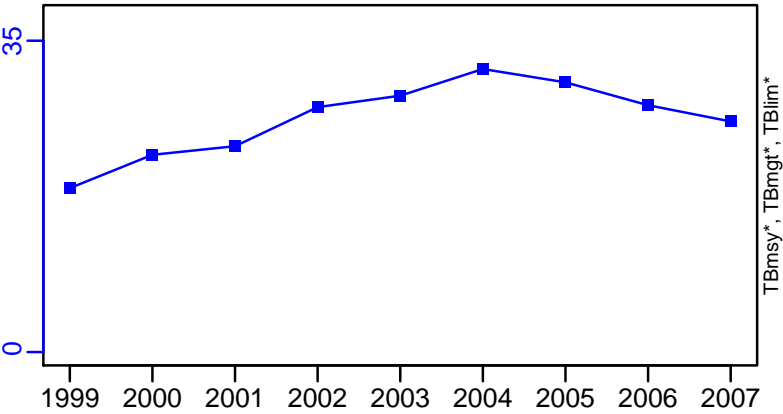
Production*



◆ Start Year ◆ End Year * No Data

Seabream West Africa Subgroup 2 [BRMSPPWASG2]

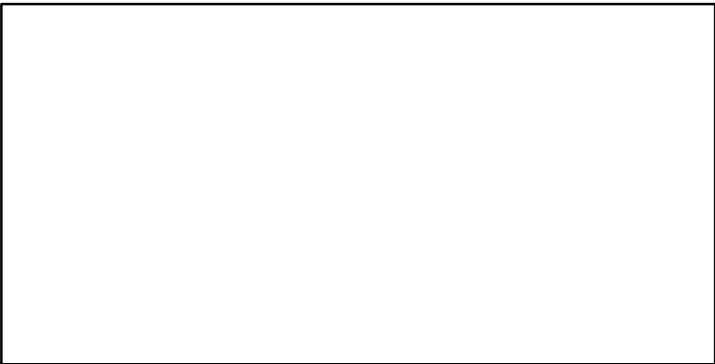
TB-index (1990–2007–CHING)



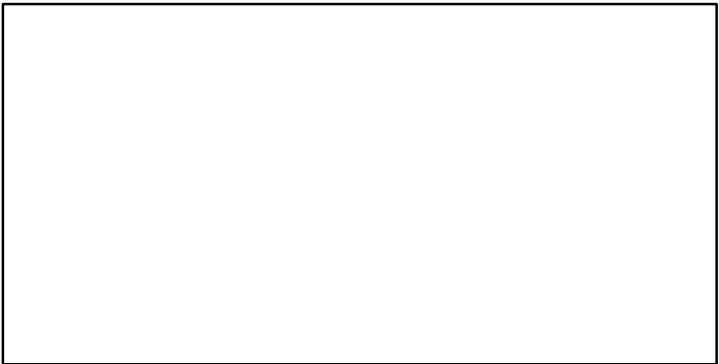
SSB*



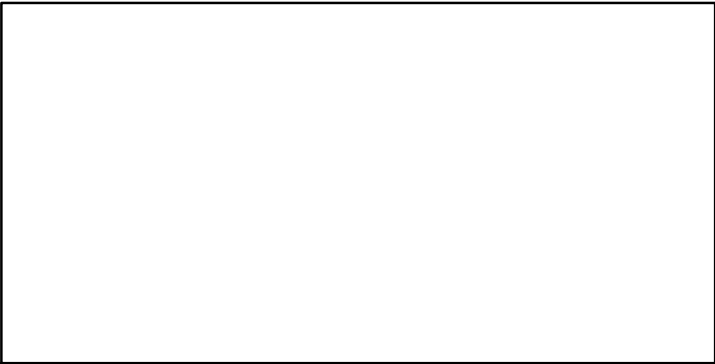
TN *



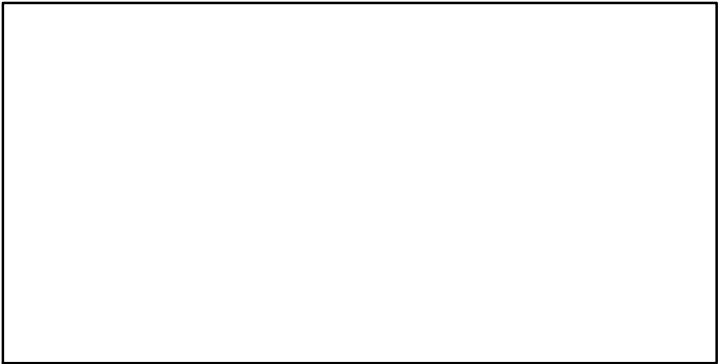
F*



ER*

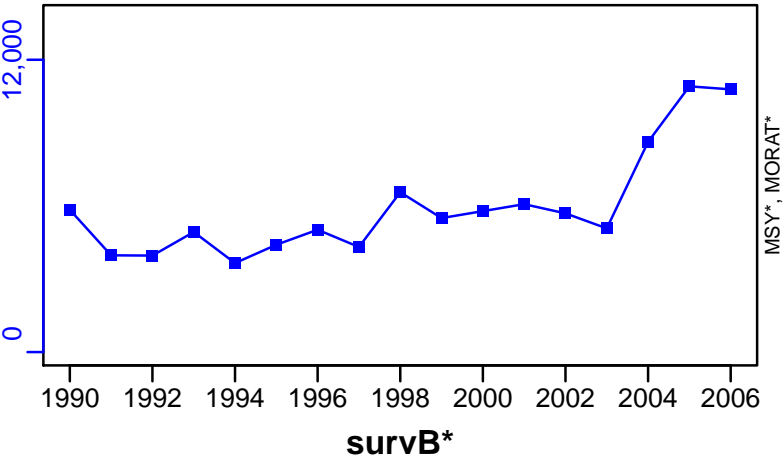


Recruits*



Seabream West Africa Subgroup 2 [BRMSPPWASG2]

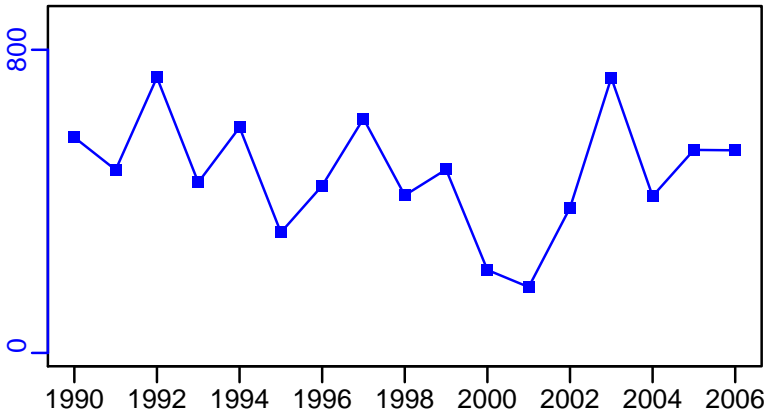
TC-MT, TL*, RecC* (1990-2007-CHING)



TAC*, Cpair*, Cadv*



CPUE-kg/day (1990-2007-CHING)



EFFORT*



Seabream West Africa Subgroup 3 [BRMSPPWASG3]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Dentex spp |
| Current Assess ID | FAO-DRSS-BRMSPPWASG3-1995-2007-CHING |
| Area | West Africa Subgroup 3 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



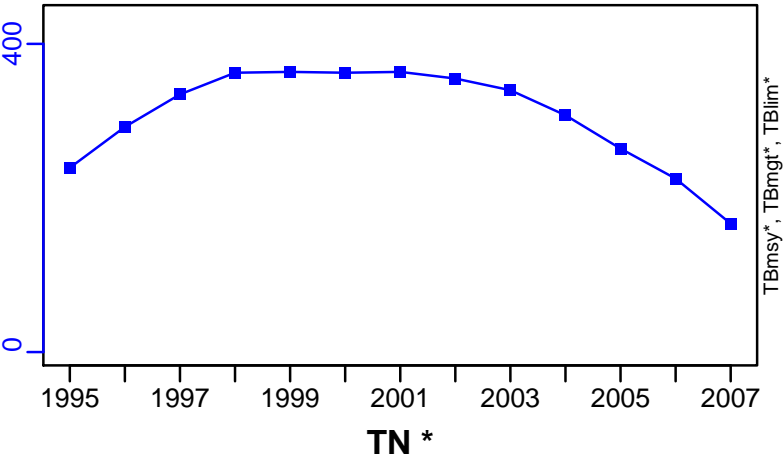
Production*



◆ Start Year ◆ End Year * No Data

Seabream West Africa Subgroup 3 [BRMSPPWASG3]

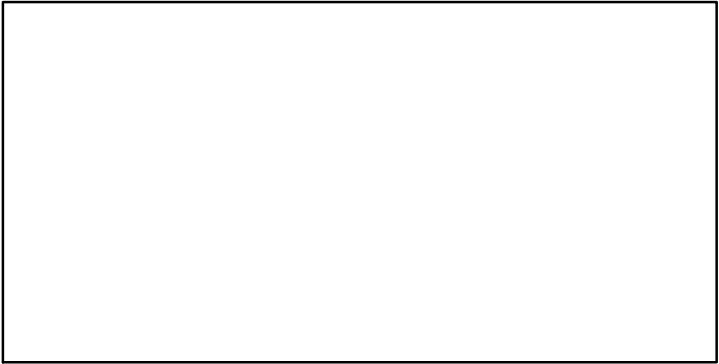
TB-index (1995–2007–CHING)



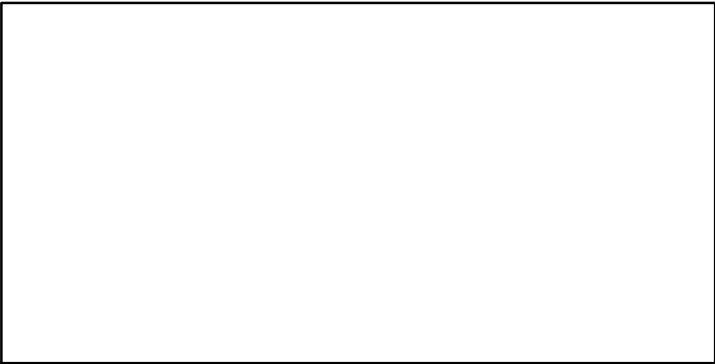
SSB*



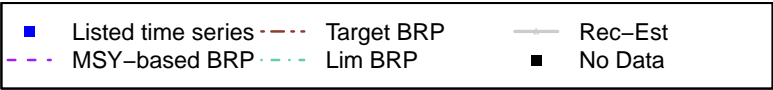
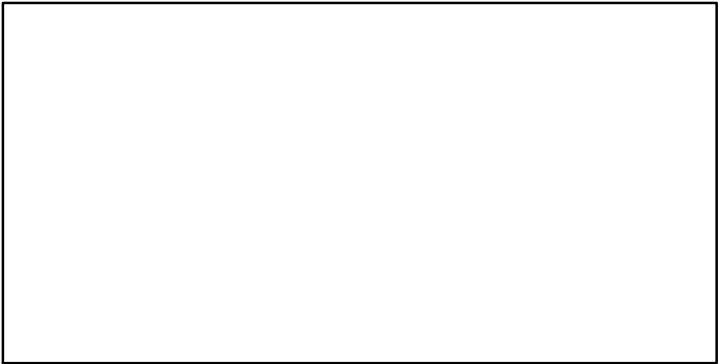
F*



ER*

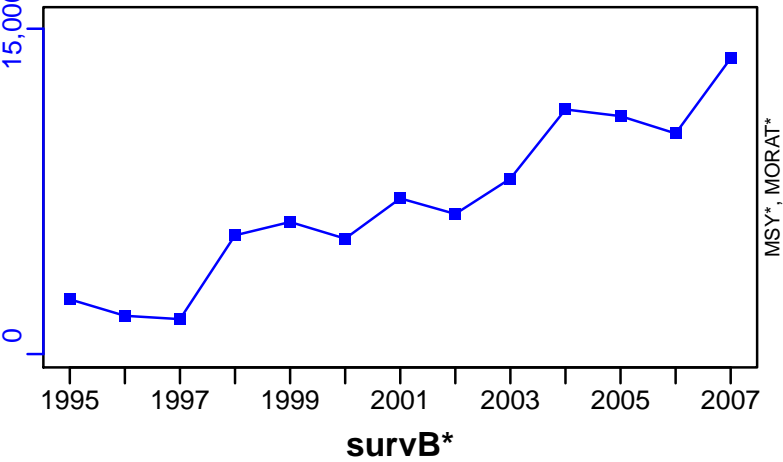


Recruits*

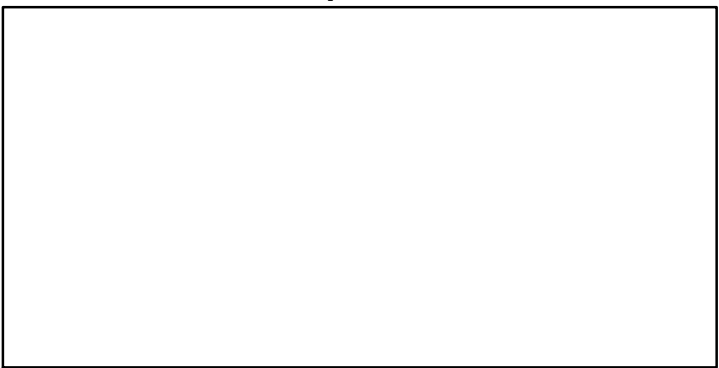


Seabream West Africa Subgroup 3 [BRMSPPWASG3]

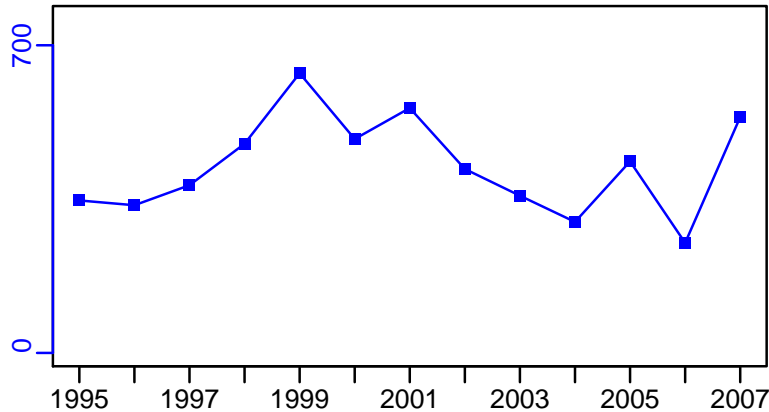
TC-MT, TL*, RecC* (1995-2007-CHING)



TAC*, Cpair*, Cadv*



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



EFFORT*



Catfish West Africa Subgroup 1 [CATWASG1]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Arius spp |
| Current Assess ID | FAO-DRSS-CATWASG1-1994-2008-CHING |
| Area | West Africa Subgroup 1 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2008 |

| 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 | 2008 | 2470 | | |
| 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

Catfish West Africa Subgroup 1 [CATWASG1]

TB*



SSB*



TN *



F*



ER*

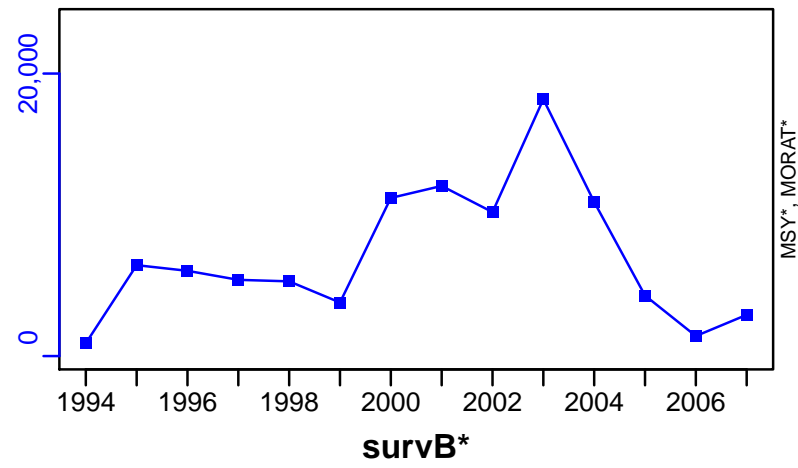


Recruits*



Catfish West Africa Subgroup 1 [CATWASG1]

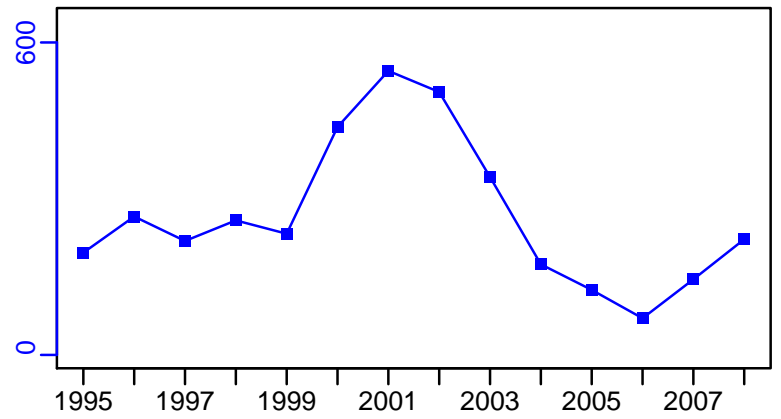
TC-MT, TL*, RecC* (1994-2008-CHING)



TAC*, Cpair*, Cadv*



CPUE-MT/day (1994-2008-CHING)



EFFORT*



Catfish West Africa Subgroup 3 [CATWASG3]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Arius spp |
| Current Assess ID | FAO-DRSS-CATWASG3-1995-2007-CHING |
| Area | West Africa Subgroup 3 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

| Time Series | | | | | |
|-------------|----------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-index | 2007 | 11 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2007 | 547 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Kobe MSY*



Kobe MGT*



Spawner Recruit*



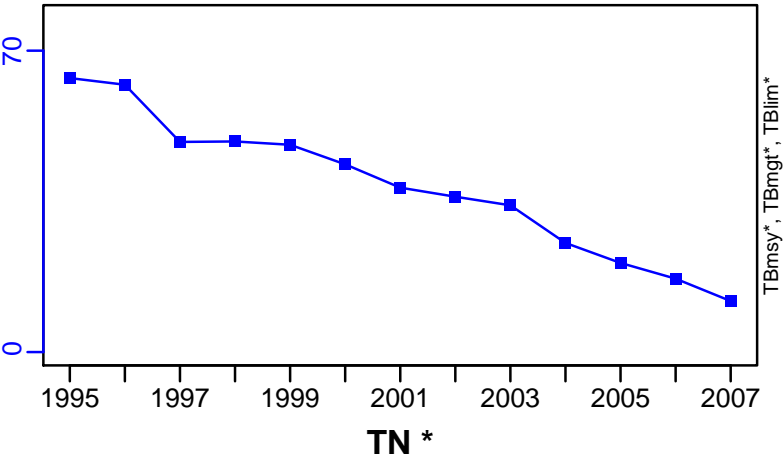
Production*



◆ Start Year ◆ End Year * No Data

Catfish West Africa Subgroup 3 [CATWASG3]

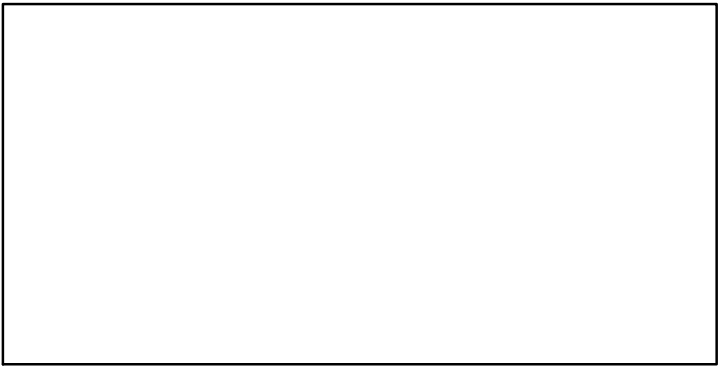
TB-index (1995–2007–CHING)



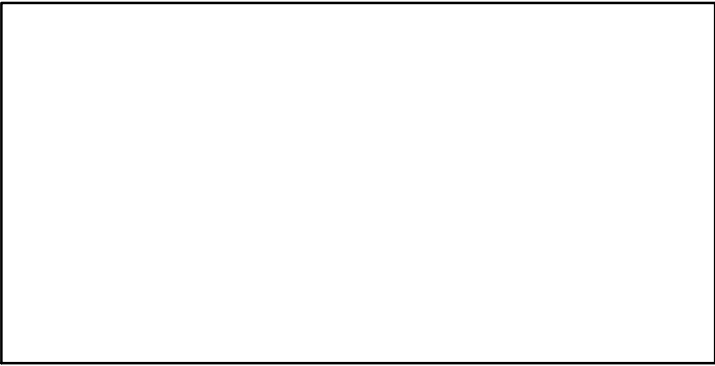
SSB*



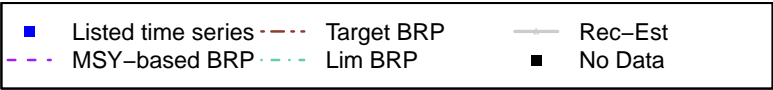
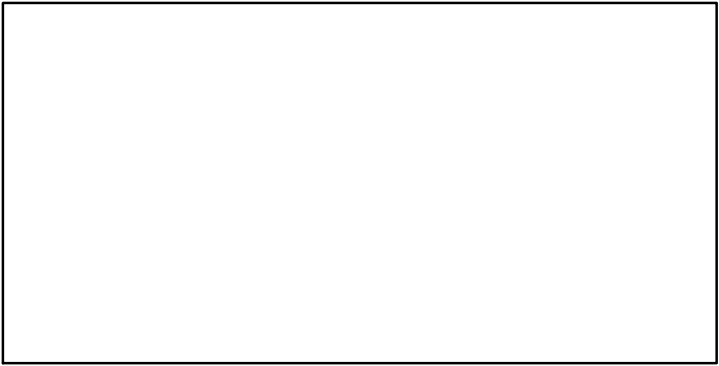
F*



ER*

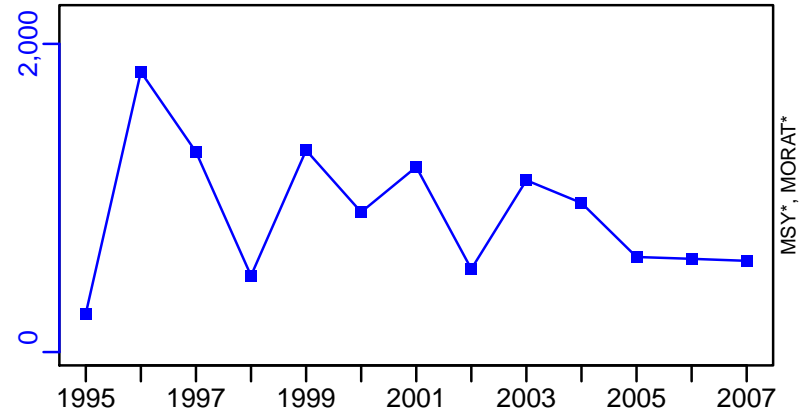


Recruits*



Catfish West Africa Subgroup 3 [CATWASG3]

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



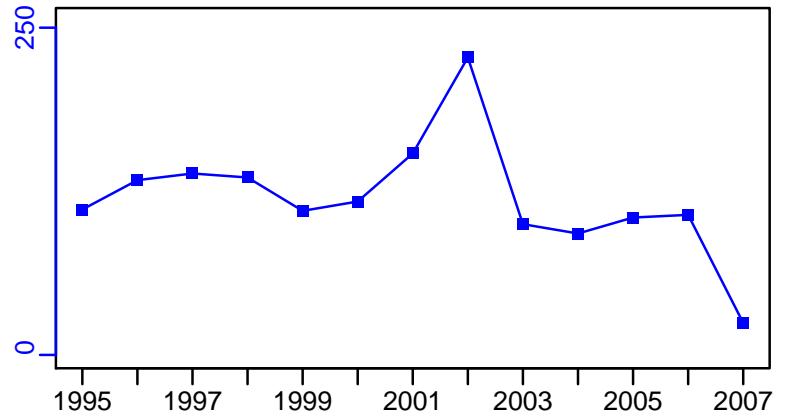
TAC*, Cpair*, Cadv*



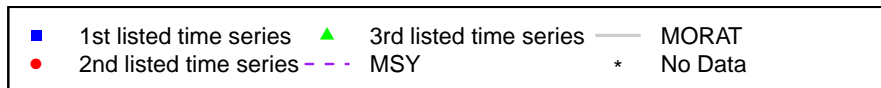
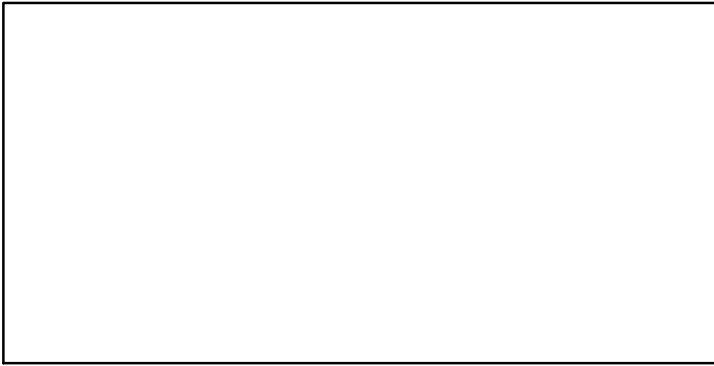
survB*



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



EFFORT*

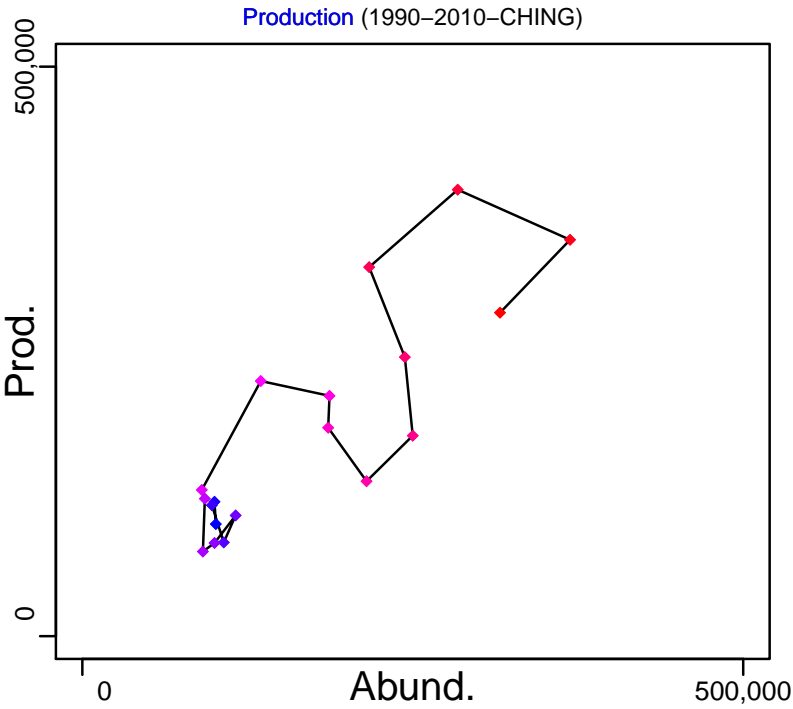
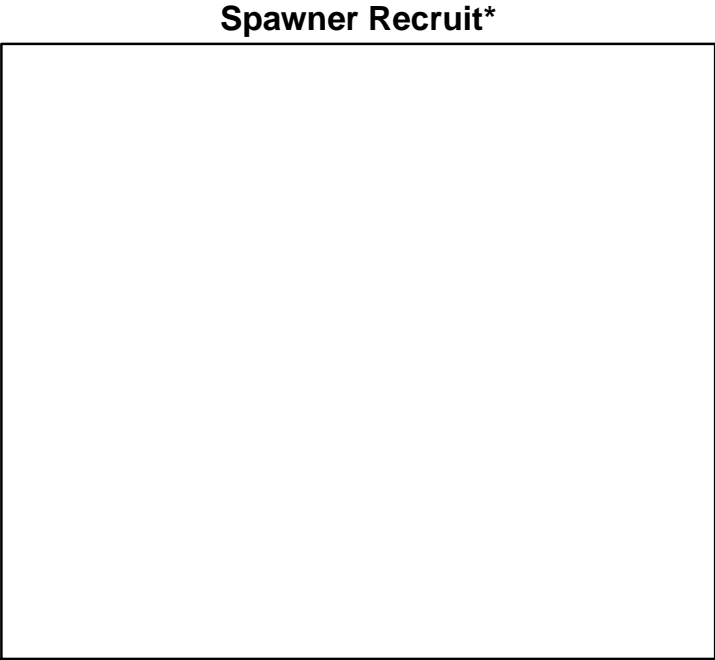
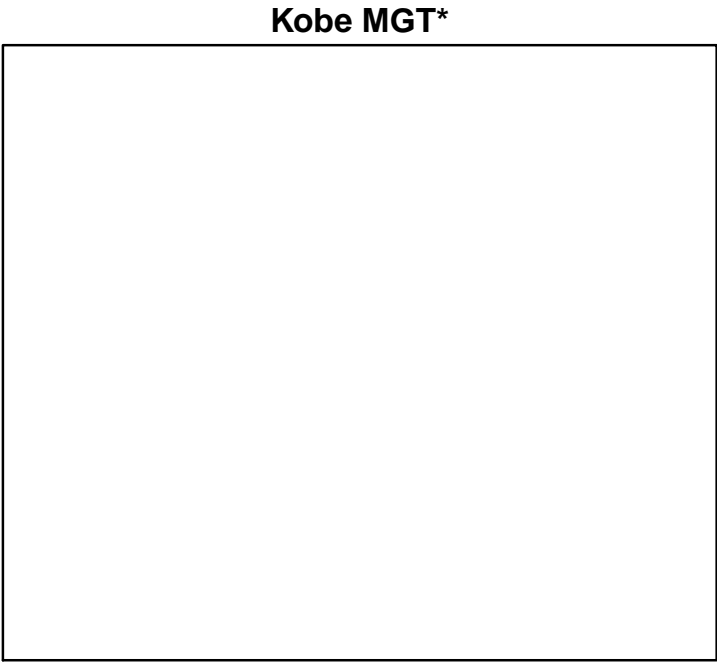


Cunene Horse Mackerel West Africa [CHMACKWA]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Trachurus trecae |
| Current Assess ID | FAO-SPNWA-CHMACKWA-1990-2010-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | Fmsy-1/yr | 2010 | 0.53 |
| 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 | 2010 | 253,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 1 | - | - |
| ER | ER-calc-ratio | 2010 | 1 | - | - |
| TC | TC-MT | 2010 | 352,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2010 | 2.62 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

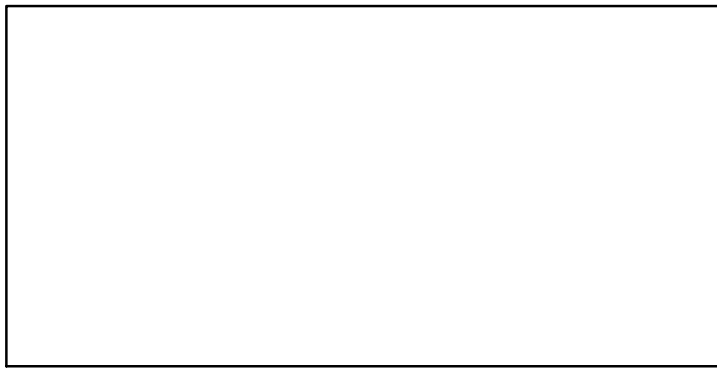
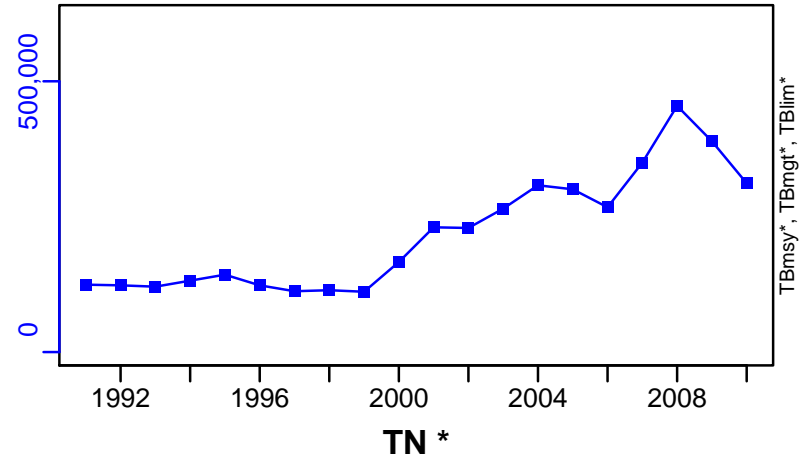


◆ Start Year ◆ End Year * No Data

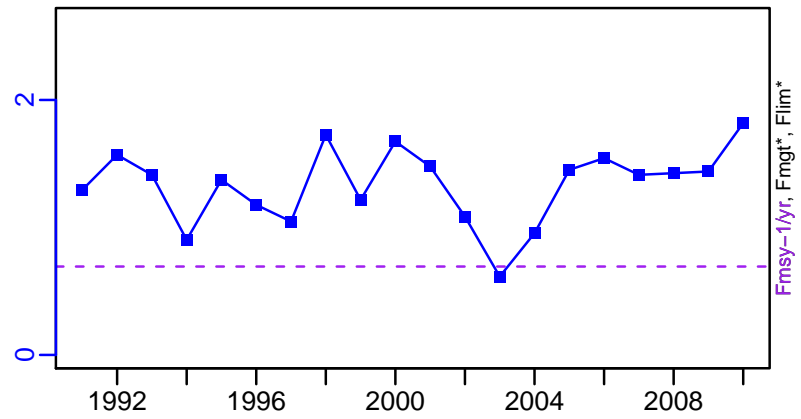
Cunene Horse Mackerel West Africa [CHMACKWA]

TB-MT (1990-2010-CHING)

SSB*

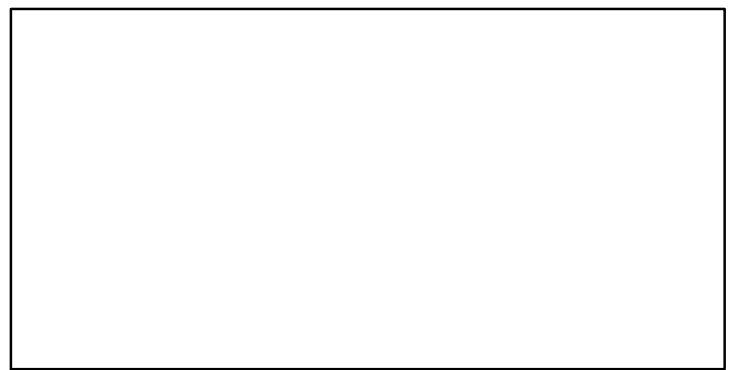
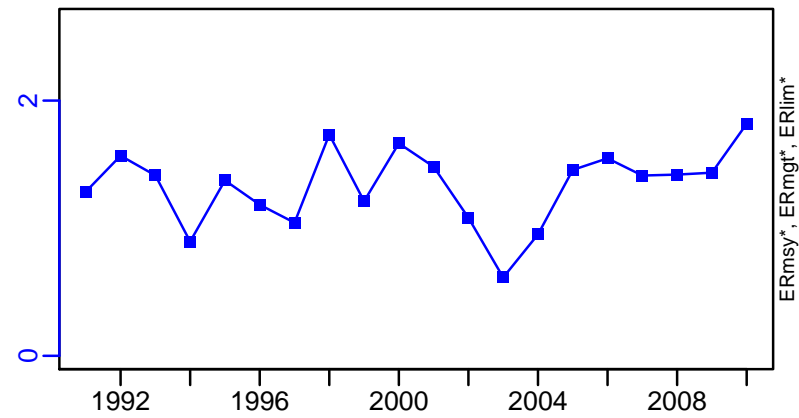


F-1/yr (1990-2010-CHING)



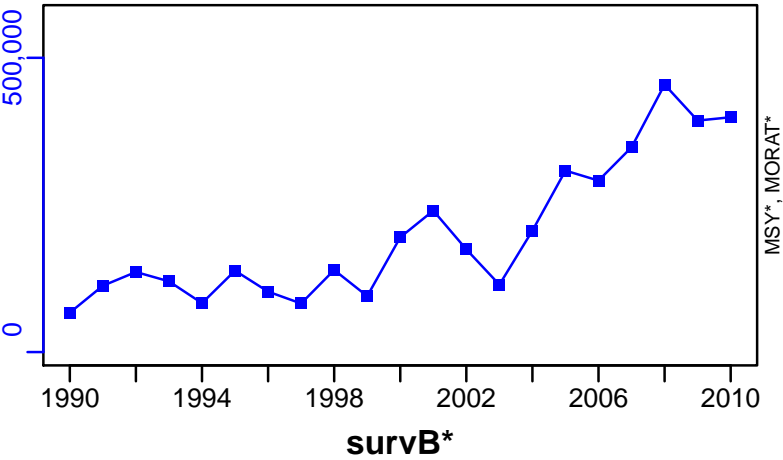
ER-calc-ratio (1990-2010-CHING)

Recruits*



Cunene Horse Mackerel West Africa [CHMACKWA]

TC-MT, TL*, RecC* (1990-2010-CHING)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Chub Mackerel West Africa [CMACKWA]

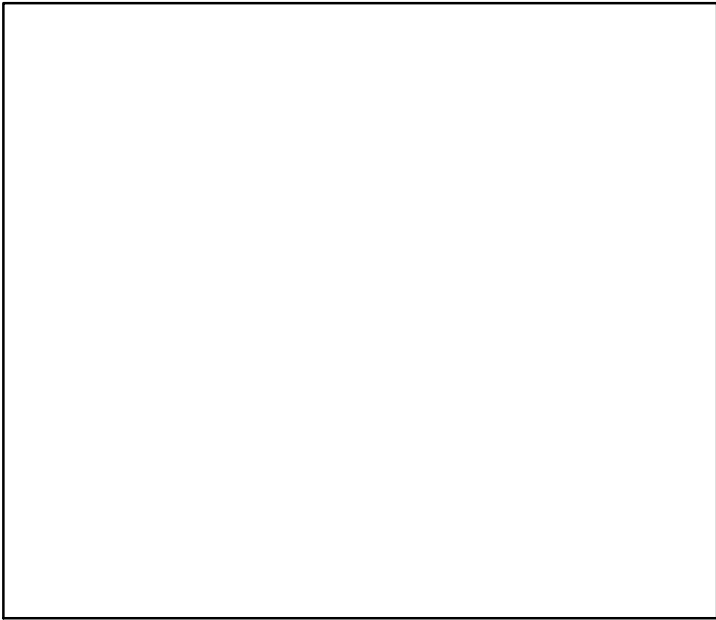
| Metadata | |
|-----------------------------|--|
| Scientific Name | Scomber japonicus |
| Current Assess ID | FAO-SPNWA-CMACKWA-1990-2010-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | Fmsy-1/yr | 2010 | 0.67 |
| 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 | 2010 | 262,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 1 | - | - |
| ER | ER-calc-ratio | 2010 | 1 | - | - |
| TC | TC-MT | 2010 | 206,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2010 | 1.18 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Chub Mackerel West Africa [CMACKWA]

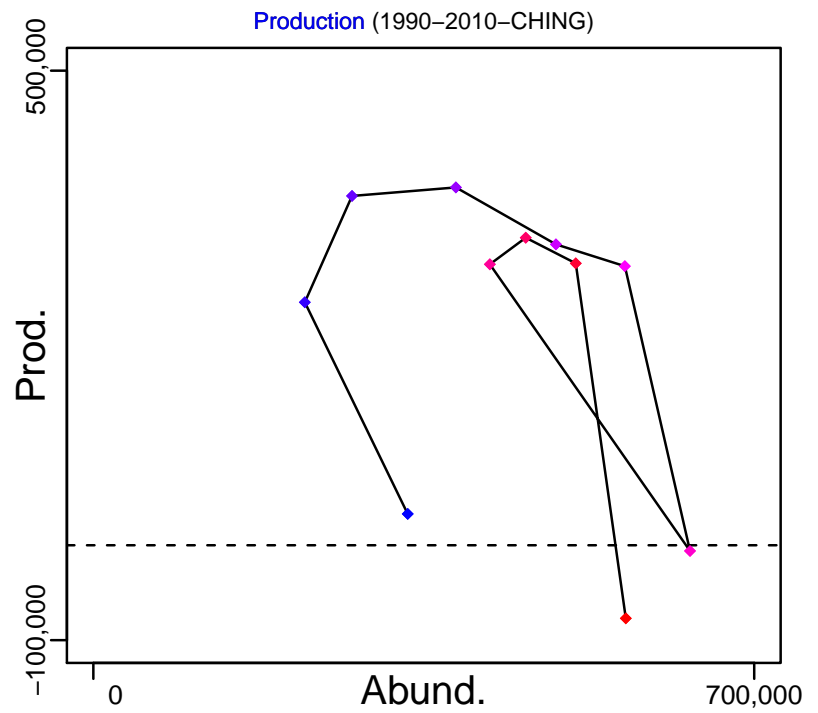
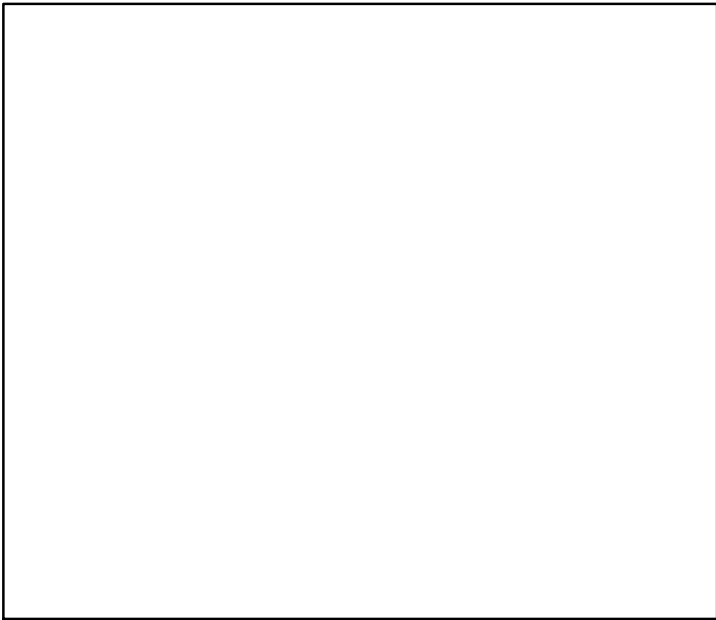
Kobe MSY*



Kobe MGT*

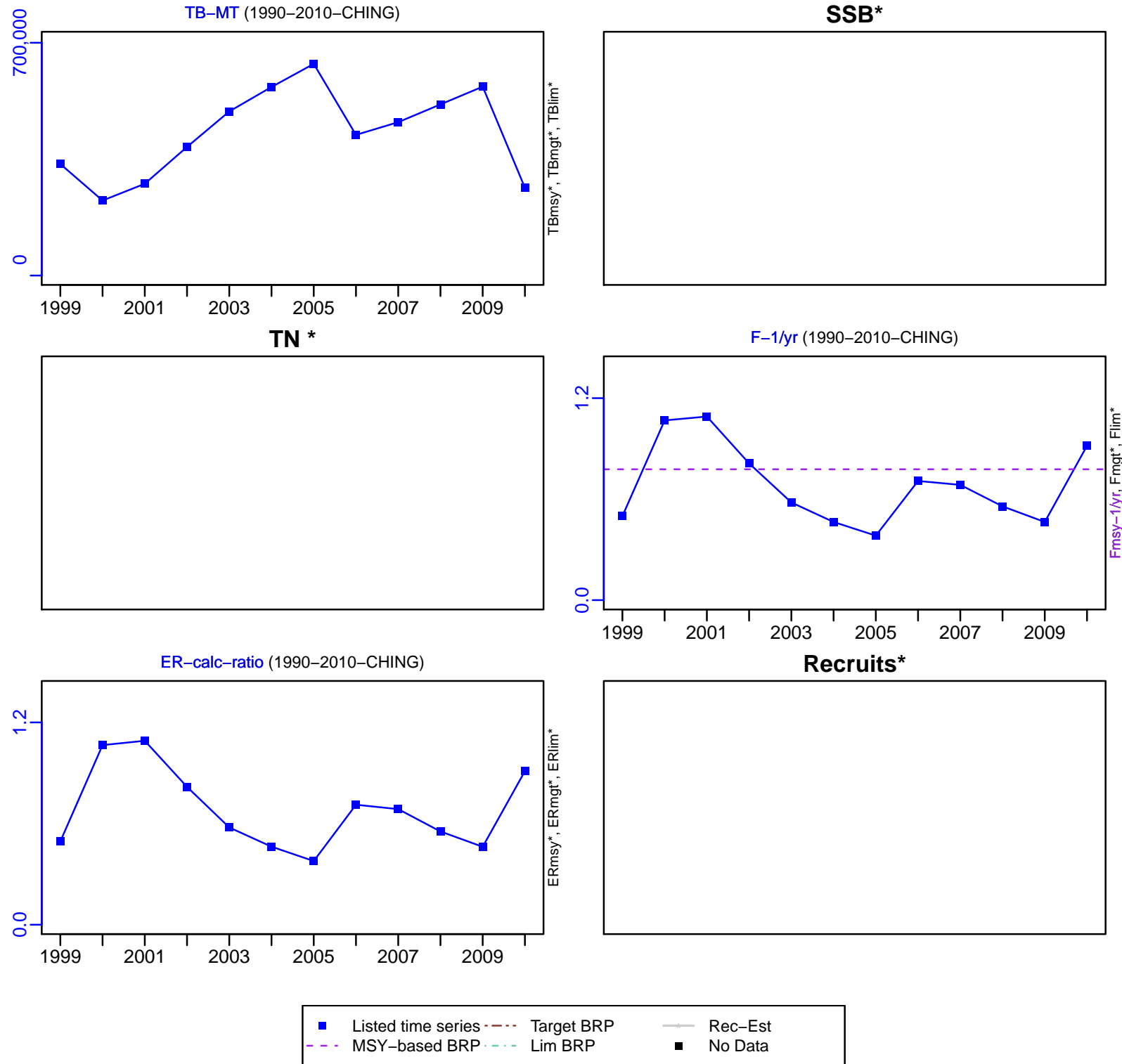


Spawner Recruit*



◆ Start Year ◆ End Year * No Data

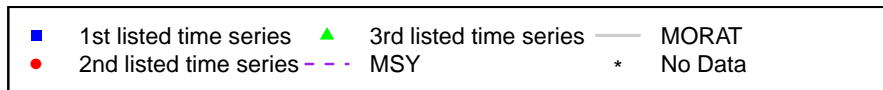
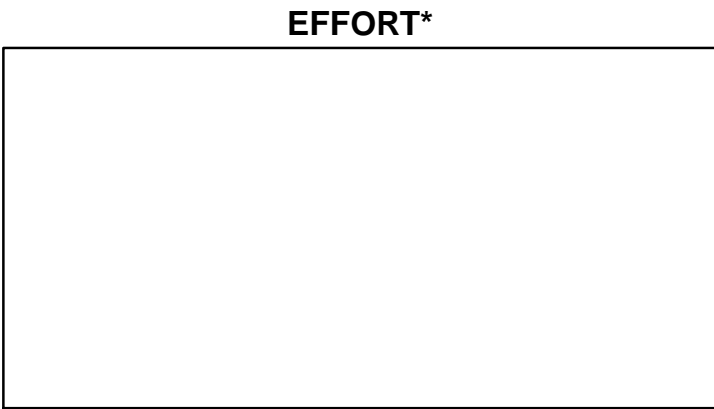
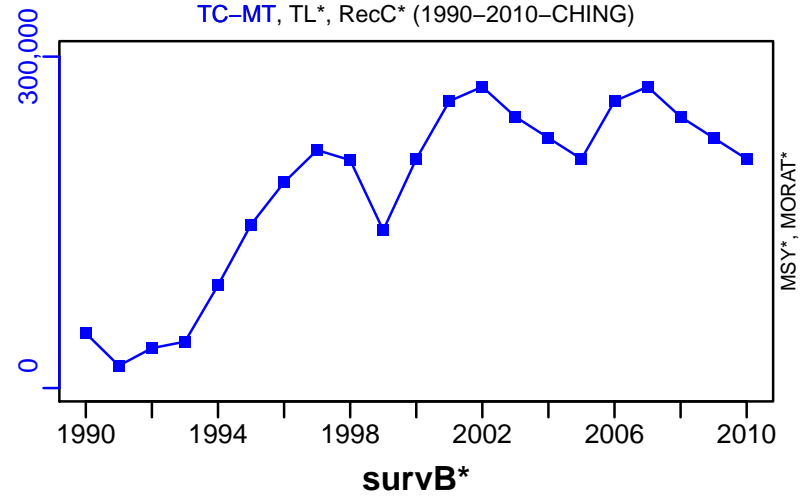
Chub Mackerel West Africa [CMACKWA]



Chub Mackerel West Africa [CMACKWA]

TC-MT, TL*, RecC* (1990-2010-CHING)

TAC*, Cpair*, Cadv*



Croaker West Africa Subgroup 1 [CROAKSPPWASG1]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Pseudotolithus spp |
| Current Assess ID | FAO-DRSS-CROAKSPPWASG1-1994-2007-CHING |
| Area | West Africa Subgroup 1 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



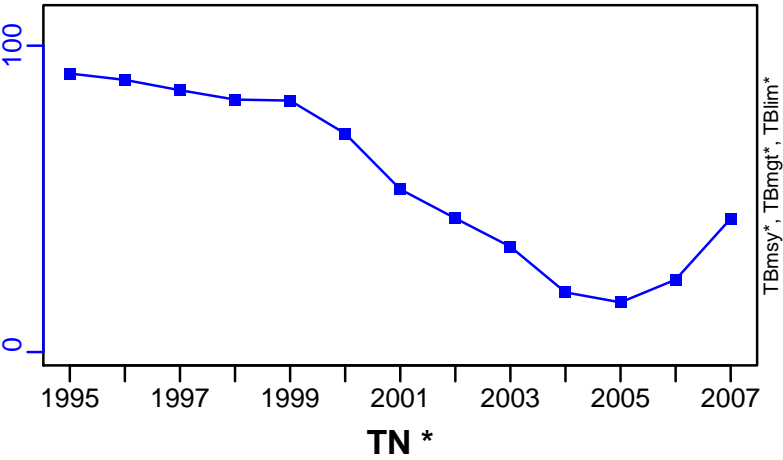
Production*



◆ Start Year ◆ End Year * No Data

Croaker West Africa Subgroup 1 [CROAKSPPWASG1]

TB-index (1994–2007–CHING)



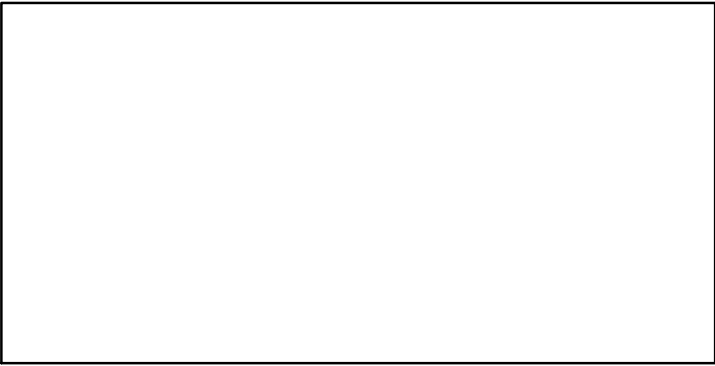
SSB*



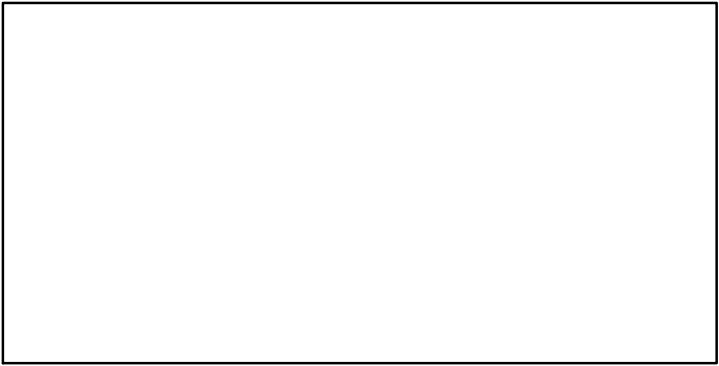
F*



ER*



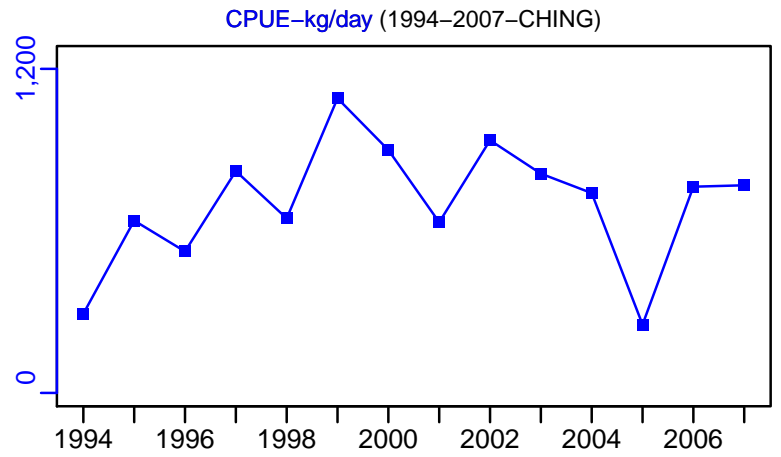
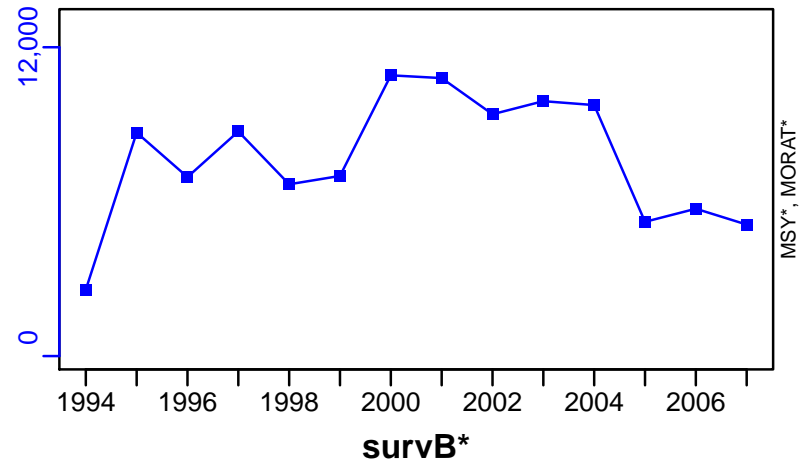
Recruits*



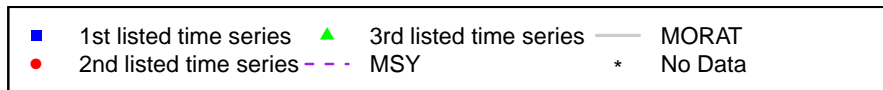
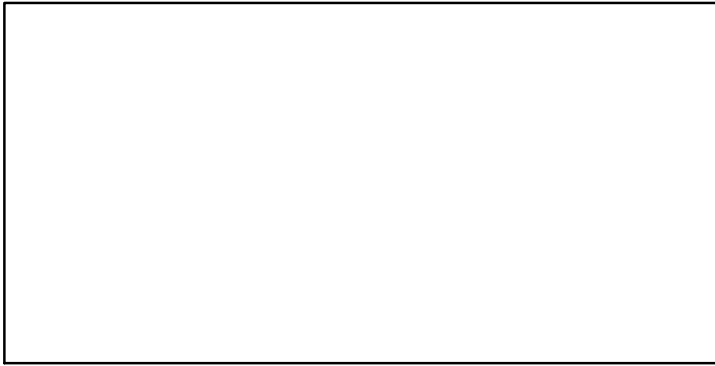
Croaker West Africa Subgroup 1 [CROAKSPPWASG1]

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

TAC*, Cpair*, Cadv*



EFFORT*



Croaker West Africa Subgroup 2 [CROAKSPPWASG2]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Pseudotolithus spp |
| Current Assess ID | FAO-DRSS-CROAKSPPWASG2-1990-2006-CHING |
| Area | West Africa Subgroup 2 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2006 |

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

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

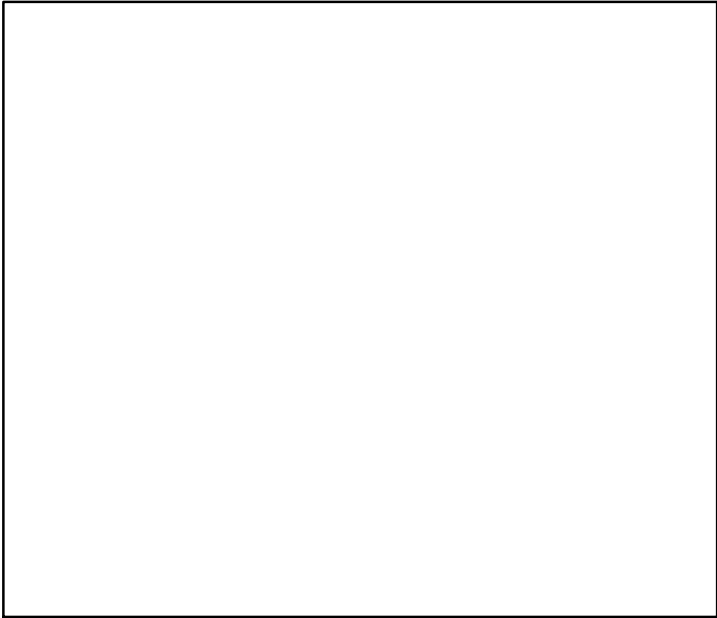
Kobe MSY*



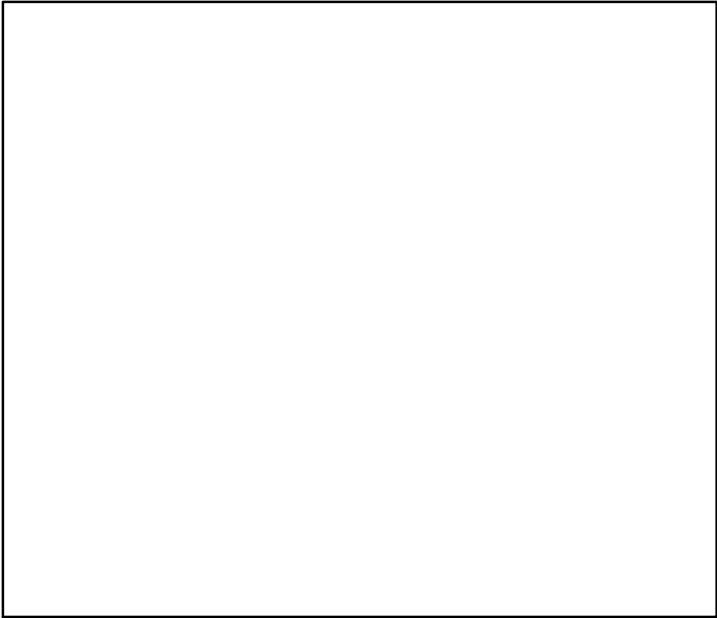
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



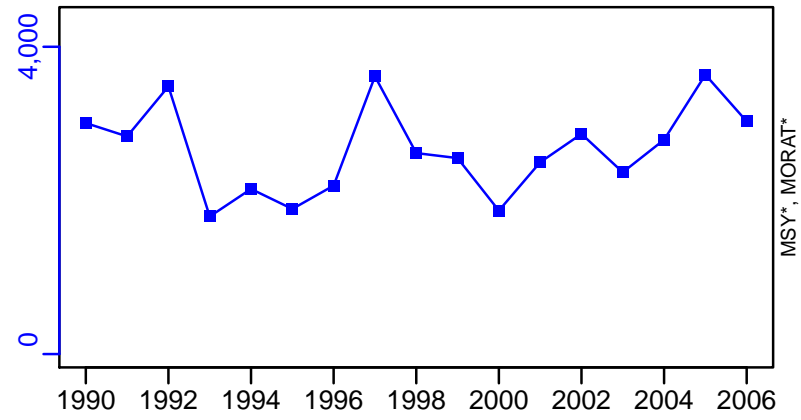
Recruits*



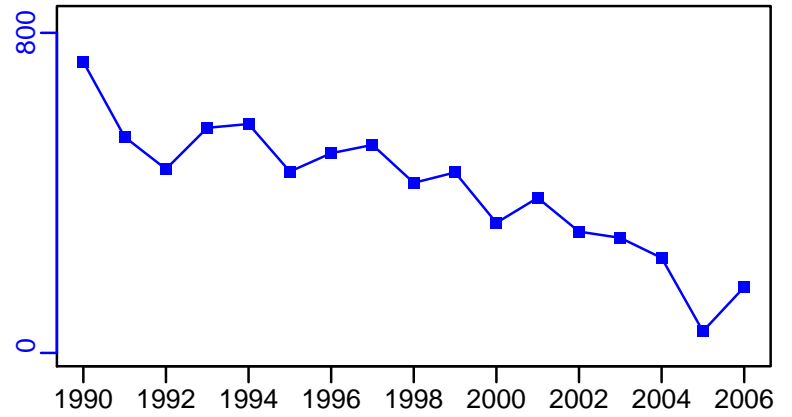
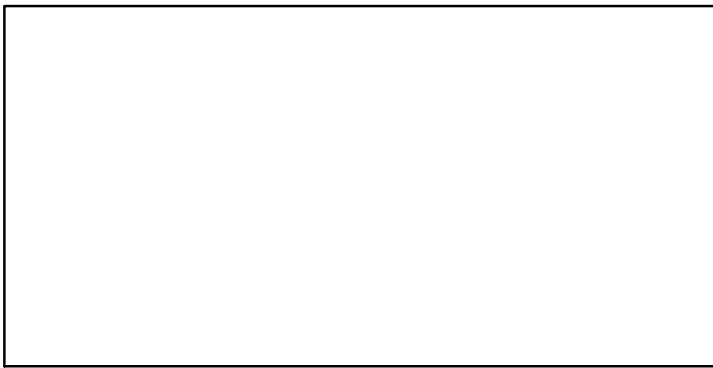
Croaker West Africa Subgroup 2 [CROAKSPPWASG2]

TC-MT, TL*, RecC* (1990–2006–CHING)

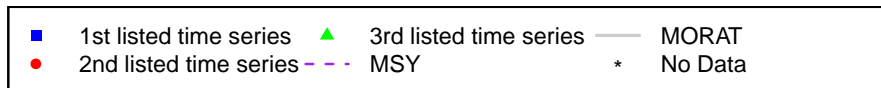
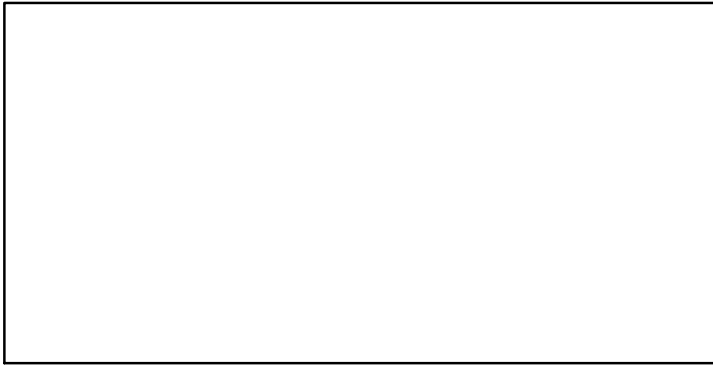
TAC*, Cpair*, Cadv*



CPUE–kg/day (1990–2006–CHING)



EFFORT*



Croaker West Africa Subgroup 3 [CROAKSPPWASG3]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Pseudotolithus spp |
| Current Assess ID | FAO-DRSS-CROAKSPPWASG3-1990-2007-CHING |
| Area | West Africa Subgroup 3 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

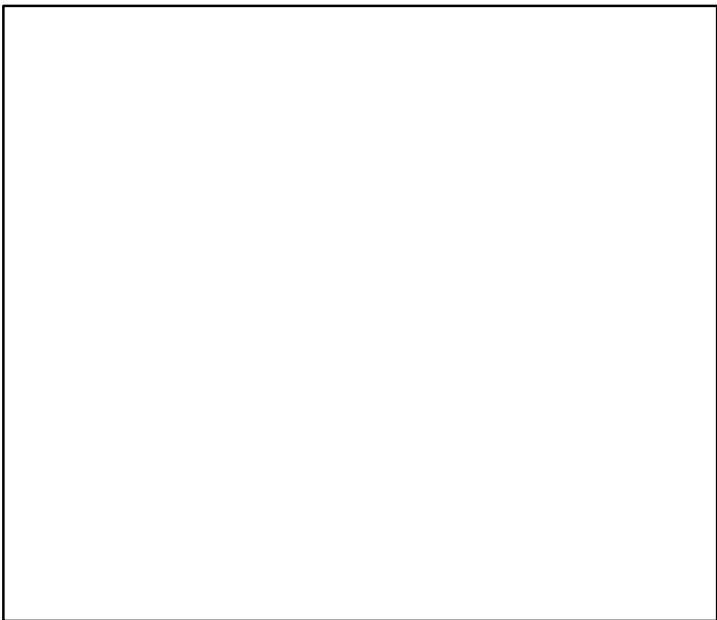
Kobe MSY*



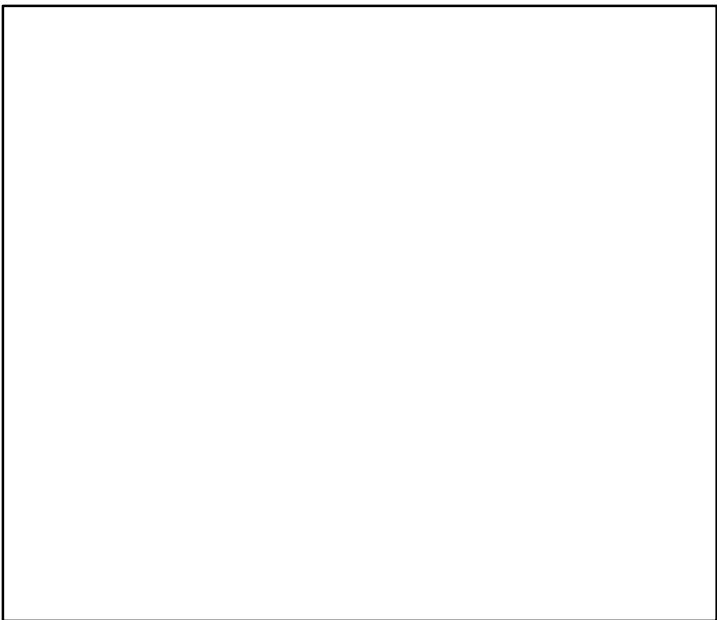
Kobe MGT*



Spawner Recruit*



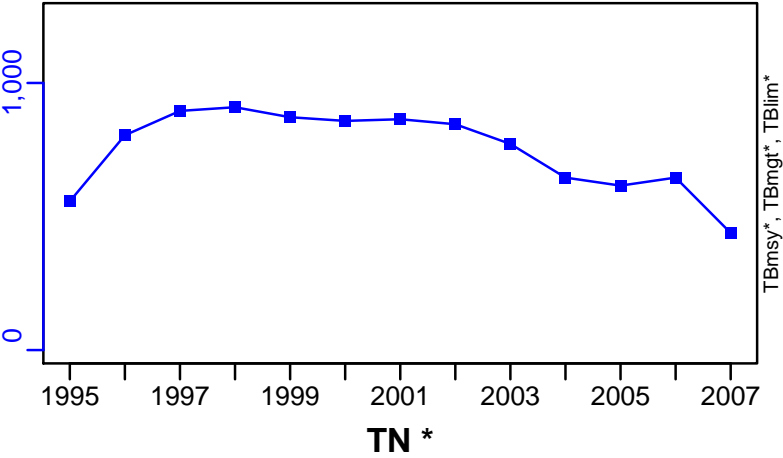
Production*



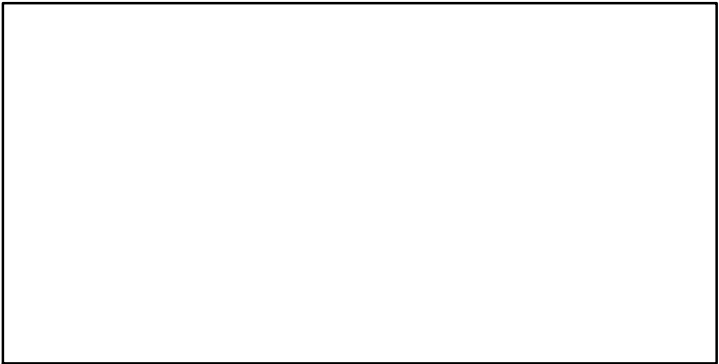
◆ Start Year ◆ End Year * No Data

Croaker West Africa Subgroup 3 [CROAKSPPWASG3]

TB-index (1990–2007–CHING)



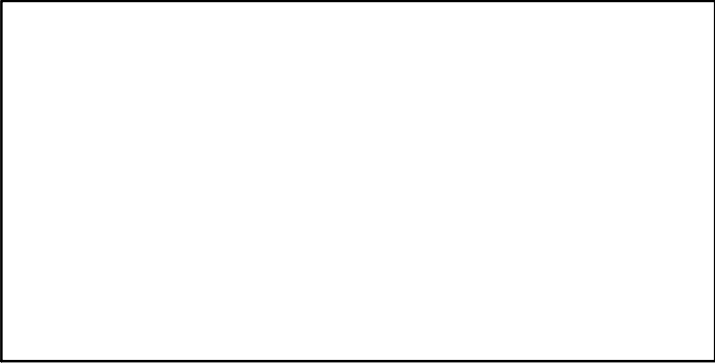
SSB*



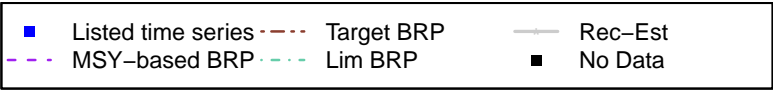
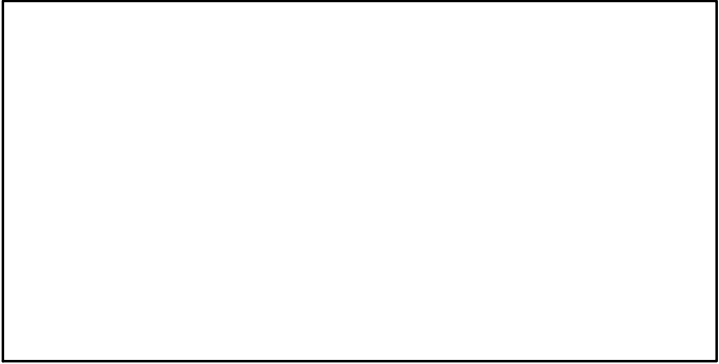
F*



ER*



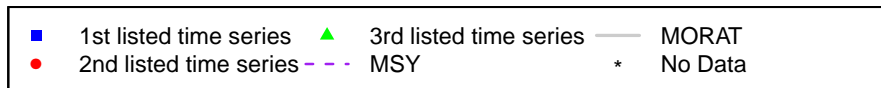
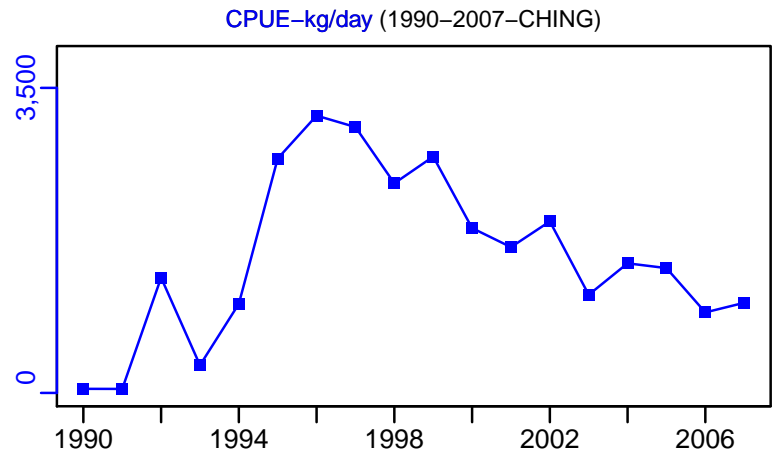
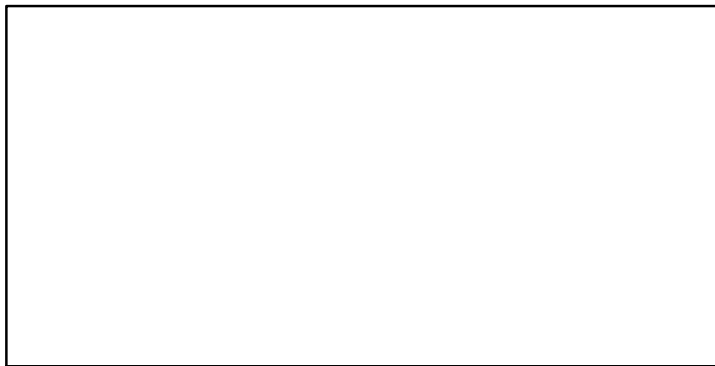
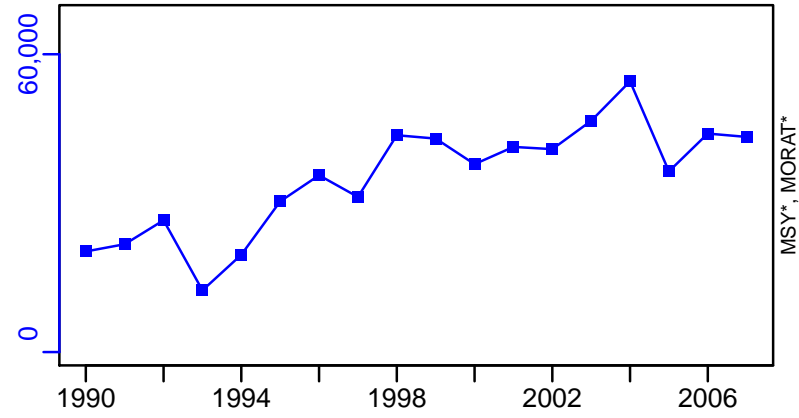
Recruits*



Croaker West Africa Subgroup 3 [CROAKSPPWASG3]

TC-MT, TL*, RecC* (1990-2007-CHING)

TAC*, Cpair*, Cadv*



Coastal Shrimp West Africa [CSHRIMPWA]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Penaeus spp |
| Current Assess ID | FAO-DRSS-CSHRIMPWA-1990-2007-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

| Time Series | | | | | |
|-------------|-------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2007 | 6580 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Coastal Shrimp West Africa [CSHRIMPWA]

Kobe MSY*



Kobe MGT*



Spawner Recruit*



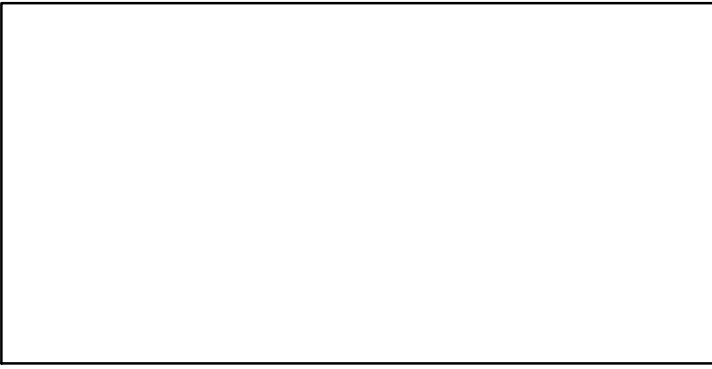
Production*



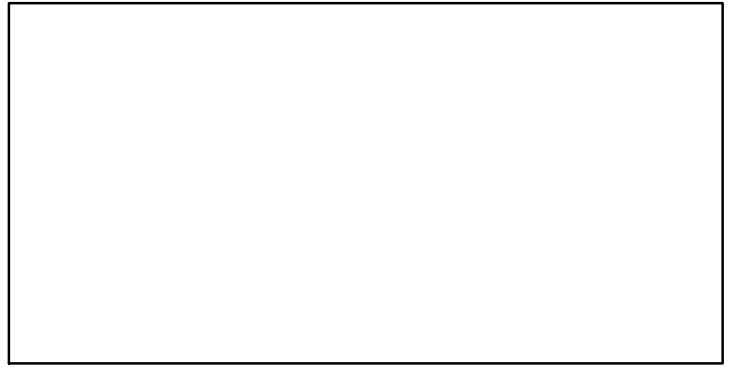
◆ Start Year ◆ End Year * No Data

Coastal Shrimp West Africa [CSHRIMPWA]

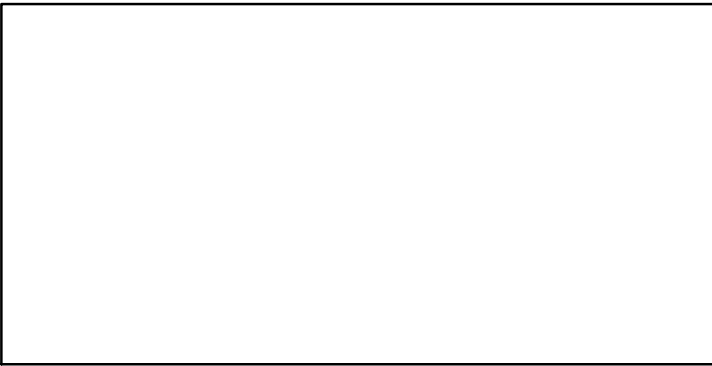
TB*



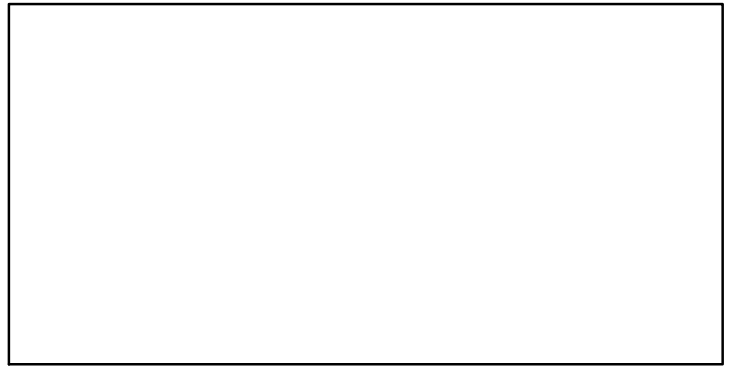
SSB*



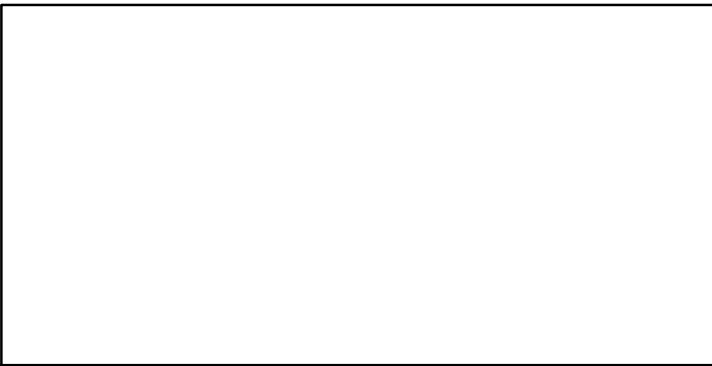
TN *



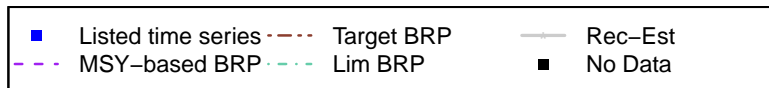
F*



ER*



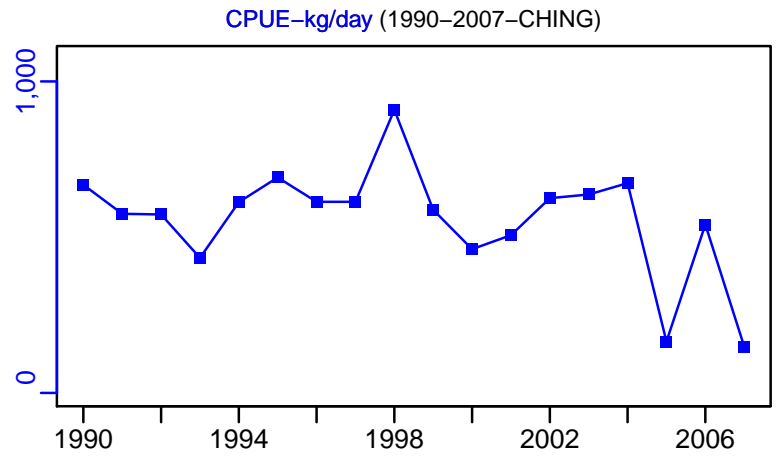
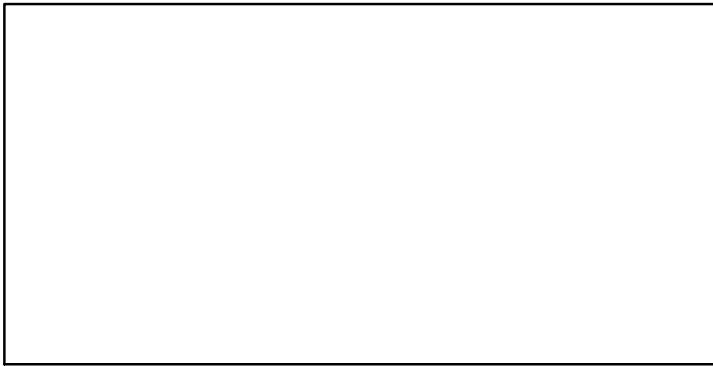
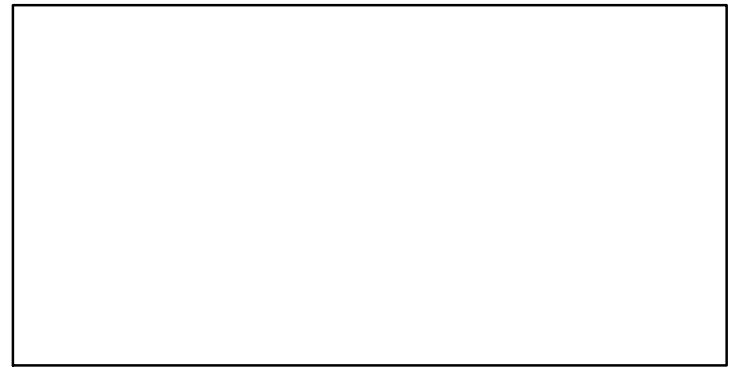
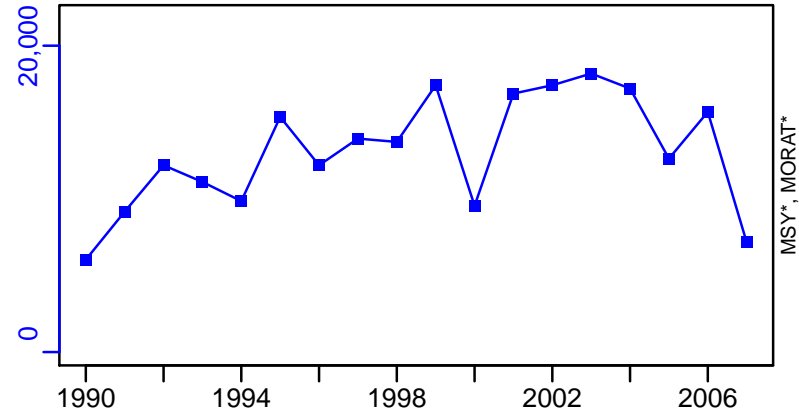
Recruits*



Coastal Shrimp West Africa [CSHRIMPWA]

TC-MT, TL*, RecC* (1990-2007-CHING)

TAC*, Cpair*, Cadv*



EFFORT*



Cuttlefish West Africa [CUTTLEWA]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Sepia spp |
| Current Assess ID | FAO-DRSS-CUTTLEWA-1990-2007-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

| Time Series | | | | | |
|-------------|----------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-index | 2007 | 242 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2007 | 3780 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Kobe MSY*



Kobe MGT*



Spawner Recruit*



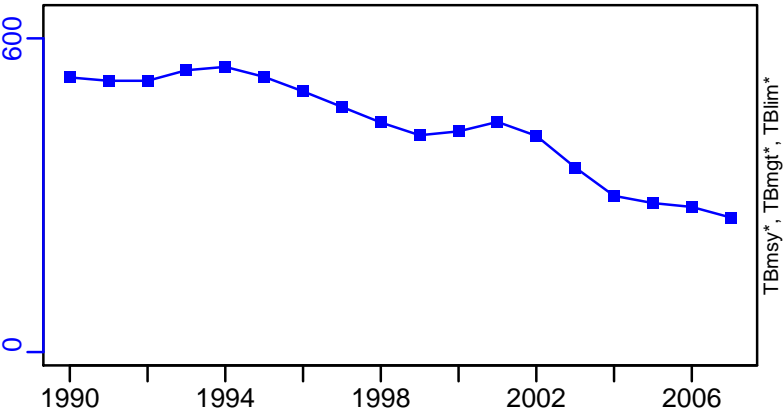
Production*



◆ Start Year ◆ End Year * No Data

Cuttlefish West Africa [CUTTLEWA]

TB-index (1990–2007–CHING)



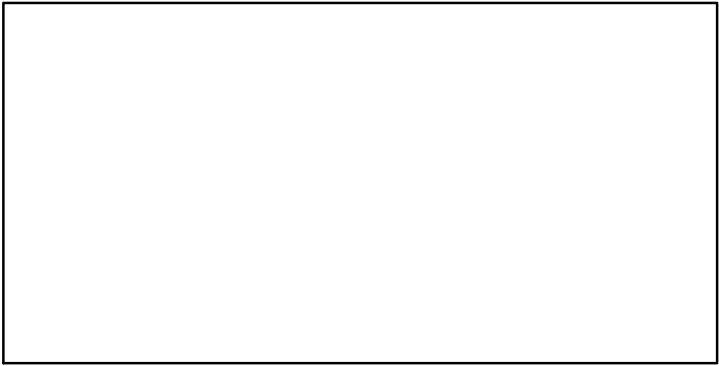
SSB*



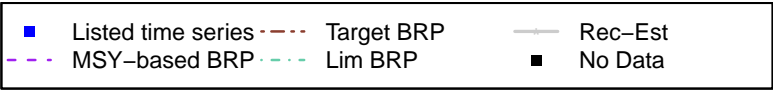
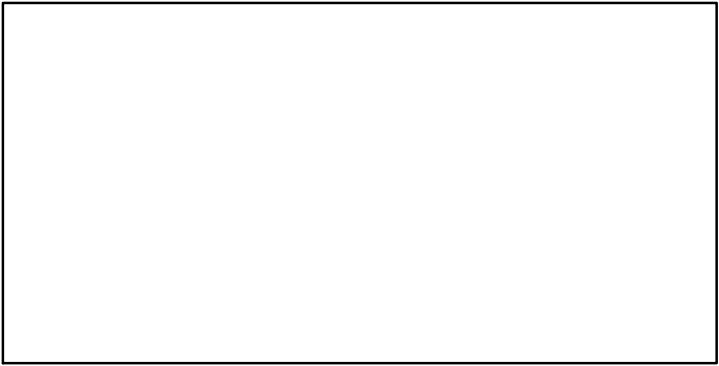
F*



ER*

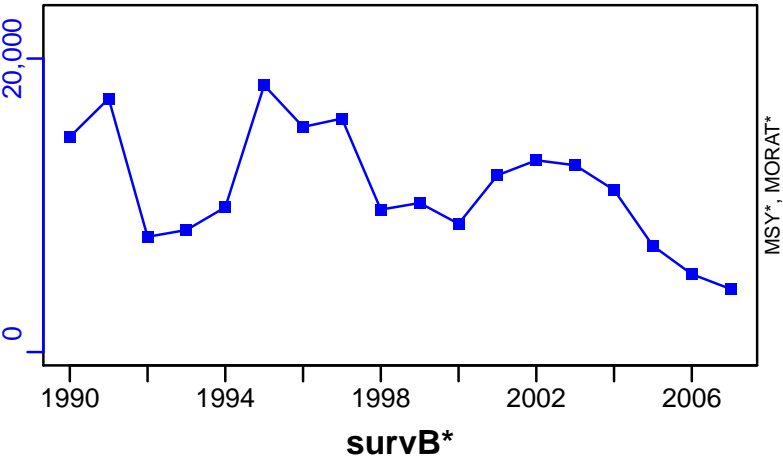


Recruits*



Cuttlefish West Africa [CUTTLEWA]

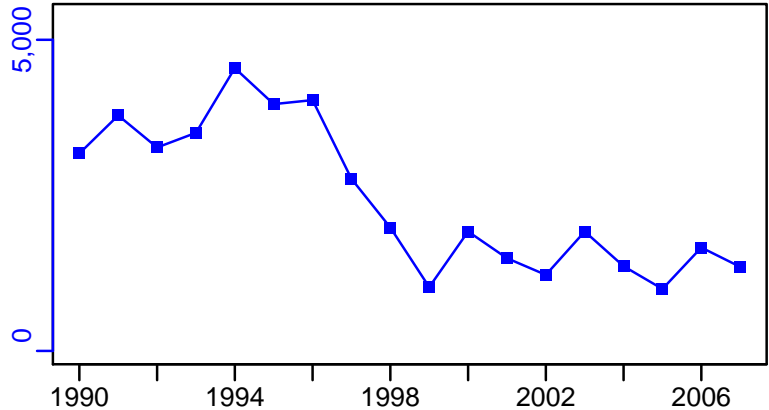
TC-MT, TL*, RecC* (1990-2007-CHING)



TAC*, Cpair*, Cadv*



CPUE-kg/day (1990-2007-CHING)



EFFORT*



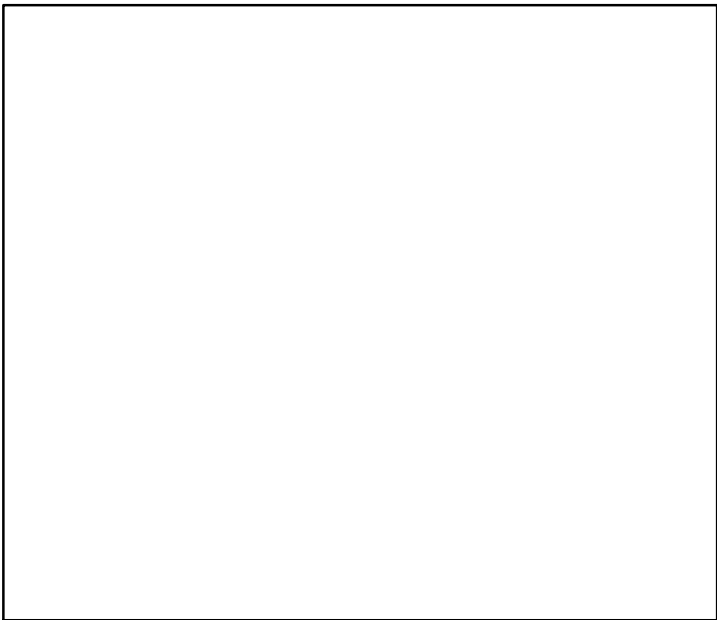
Deepwater Rose Shrimp West Africa [DRSHRIMPWA]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Parapenaeus longirostris |
| Current Assess ID | FAO-DRSS-DRSHRIMPWA-1990-2007-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

| Time Series | | | | | |
|-------------|-------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2007 | 1320 | | |
| 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

Deepwater Rose Shrimp West Africa [DRSHRIMPWA]

TB*



SSB*



TN *



F*



ER*

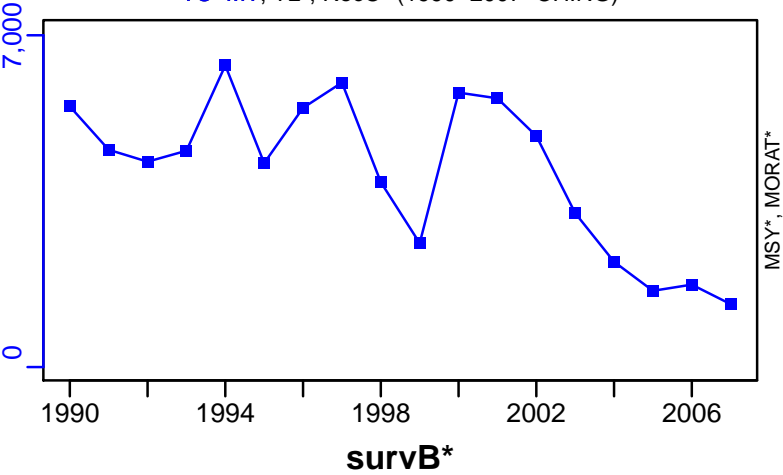


Recruits*



Deepwater Rose Shrimp West Africa [DRSHRIMPWA]

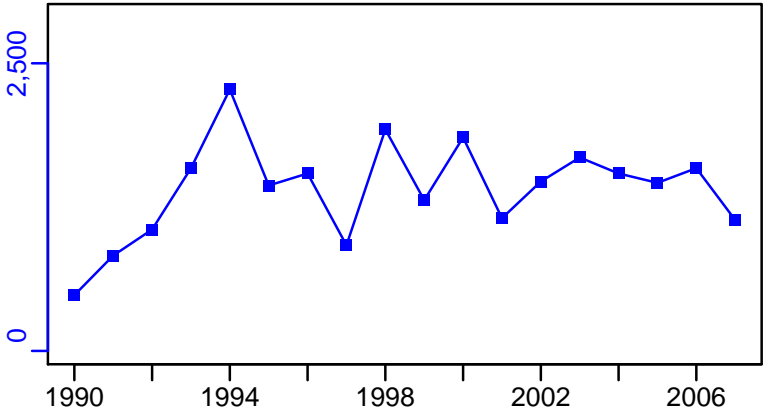
TC-MT, TL*, RecC* (1990-2007-CHING)



TAC*, Cpair*, Cadv*



CPUE-kg/day (1990-2007-CHING)



EFFORT*



False Scad West Africa [FSCADWA]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Caranx rhonchus |
| Current Assess ID | FAO-SPNWA-FSCADWA-1990-2010-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

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

| Time Series | | | | | |
|-------------|---------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2010 | 99,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 1 | - | - |
| ER | ER-calc-ratio | 2010 | 1 | - | - |
| TC | TC-MT | 2010 | 62,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Kobe MSY*



Kobe MGT*



Spawner Recruit*



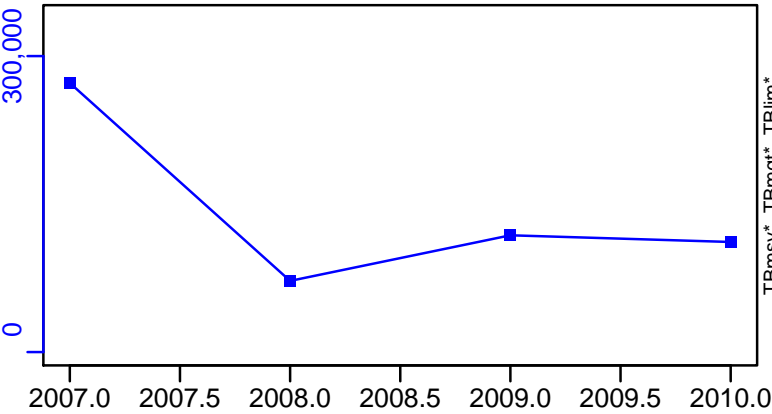
Production*



◆ Start Year ◆ End Year * No Data

False Scad West Africa [FSCADWA]

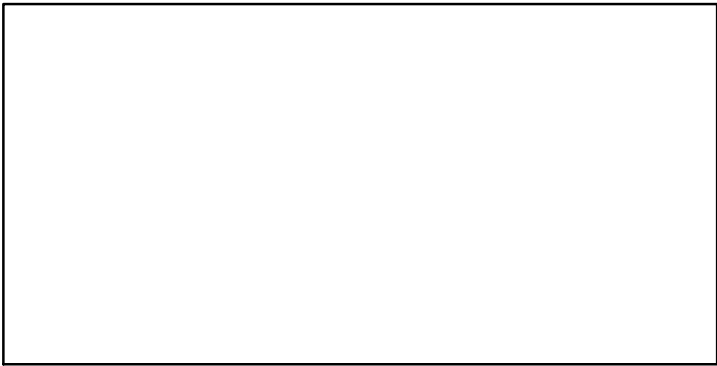
TB-MT (1990-2010-CHING)



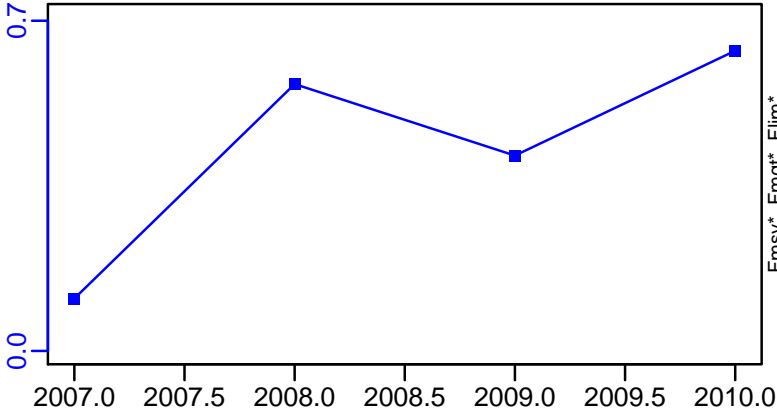
SSB*



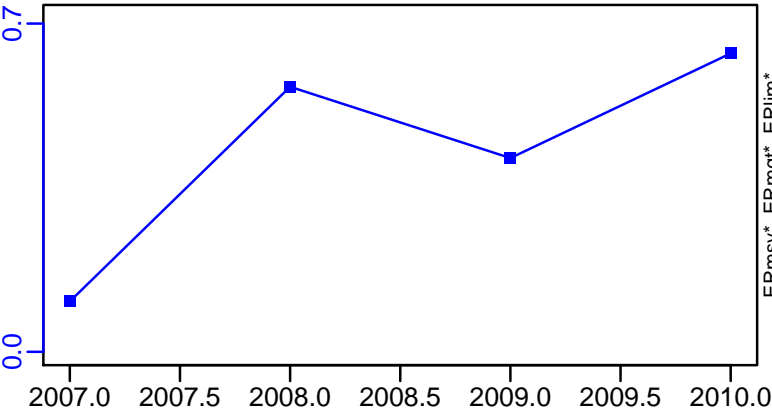
TN *



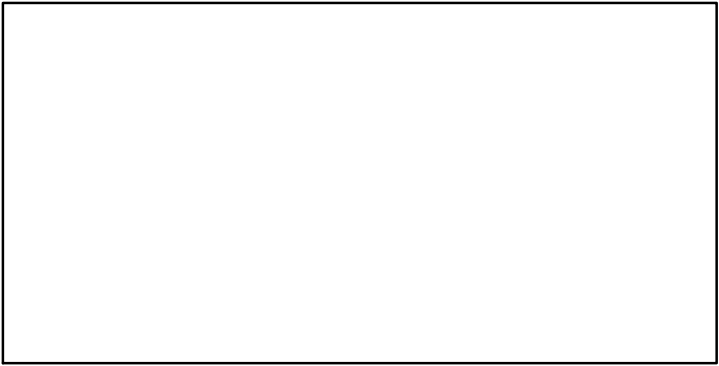
F-1/yr (1990-2010-CHING)



ER-calc-ratio (1990-2010-CHING)

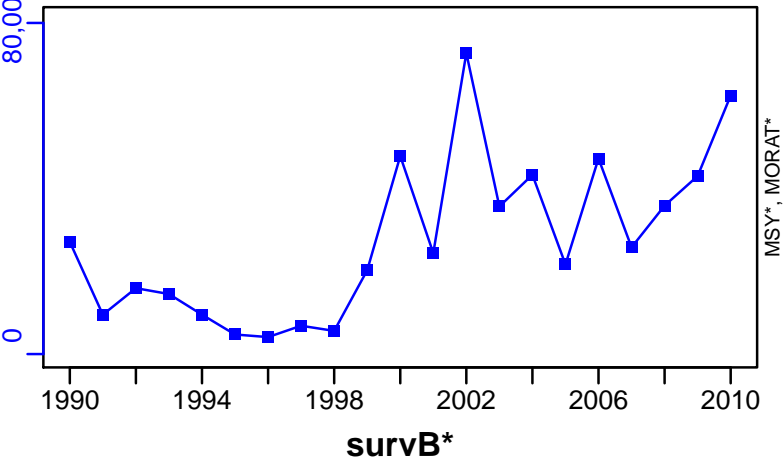


Recruits*



False Scad West Africa [FSCADWA]

TC-MT, TL*, RecC* (1990-2010-CHING)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Grey Grunt West Africa Subgroup 1 [GGRUNTWASG1]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Pomadasys spp |
| Current Assess ID | FAO-DRSS-GGRUNTWASG1-1994-2007-CHING |
| Area | West Africa Subgroup 1 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



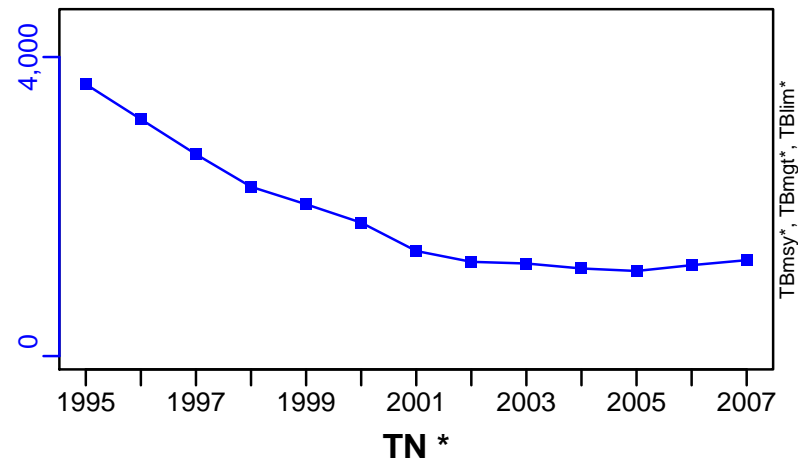
Production*



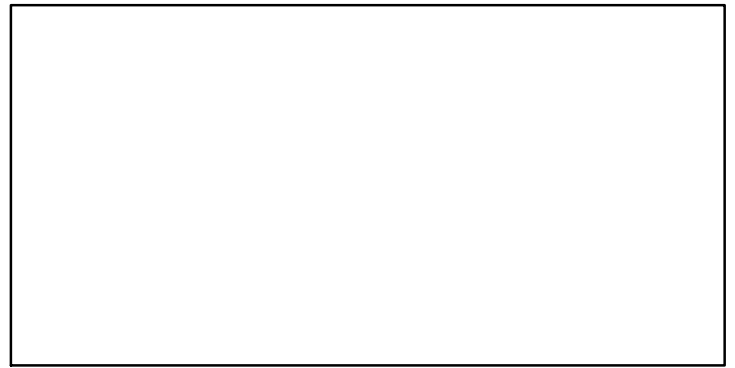
◆ Start Year ◆ End Year * No Data

Grey Grunt West Africa Subgroup 1 [GGRUNTWASG1]

TB-index (1994–2007–CHING)



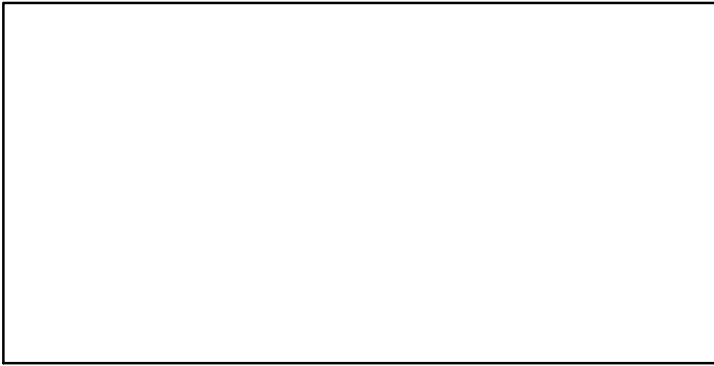
SSB*



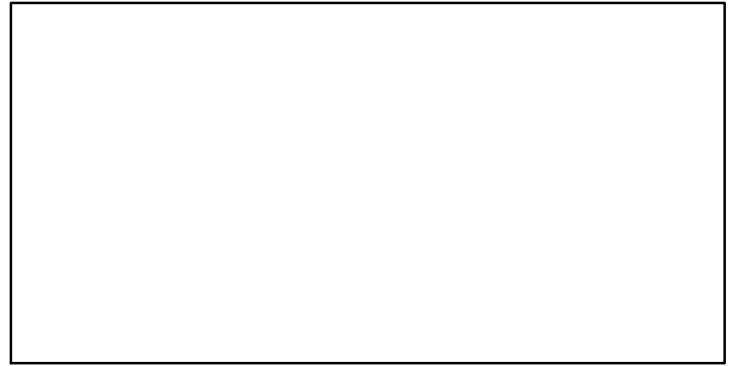
F*



ER*

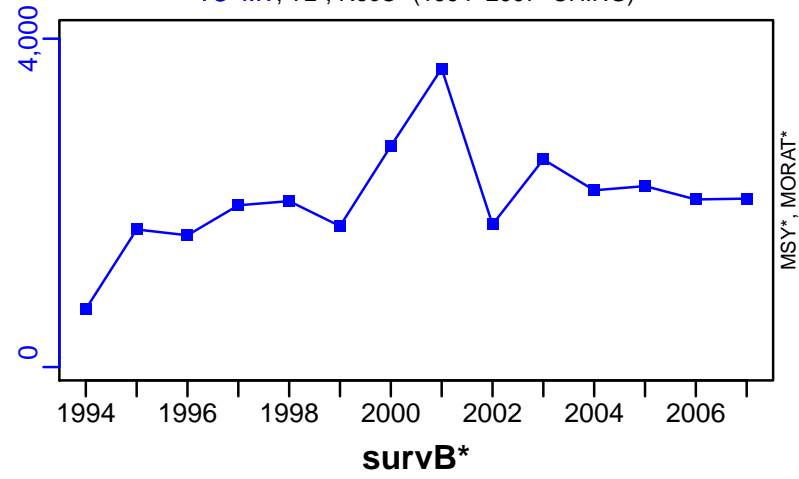


Recruits*



Grey Grunt West Africa Subgroup 1 [GGRUNTWASG1]

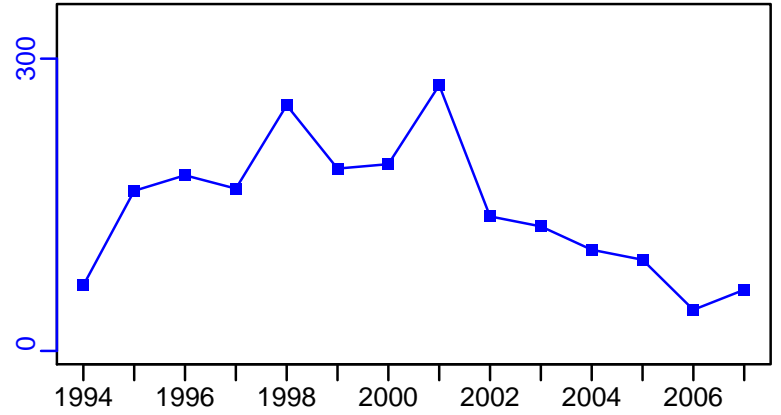
TC-MT, TL*, RecC* (1994-2007-CHING)



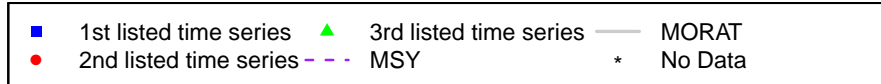
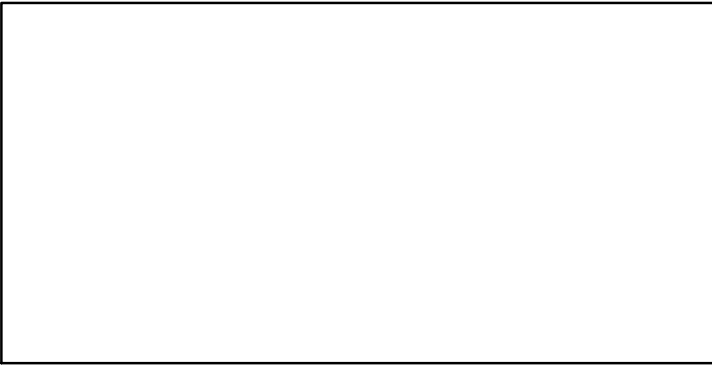
TAC*, Cpair*, Cadv*



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



EFFORT*



Grey Grunt West Africa Subgroup 3 [GGRUNTWASG3]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Pomadasys spp |
| Current Assess ID | FAO-DRSS-GGRUNTWASG3-1995-2007-CHING |
| Area | West Africa Subgroup 3 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



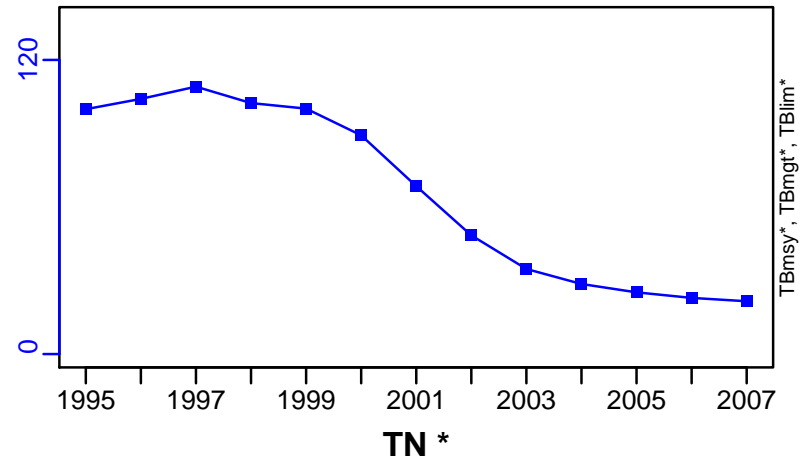
Production*



◆ Start Year ◆ End Year * No Data

Grey Grunt West Africa Subgroup 3 [GGRUNTWASG3]

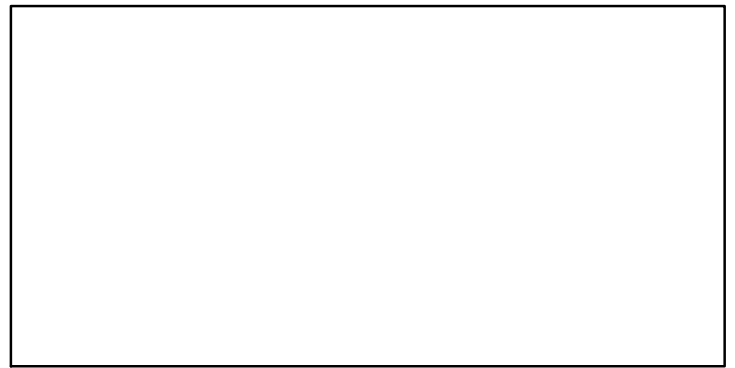
TB-index (1995–2007–CHING)



SSB*



F*



ER*



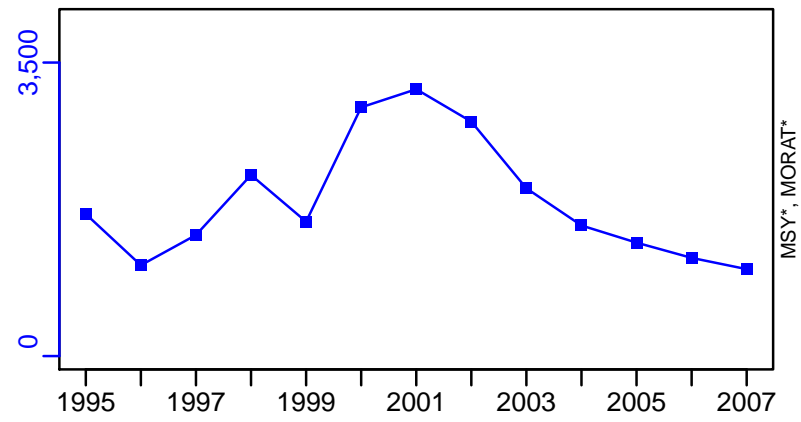
Recruits*



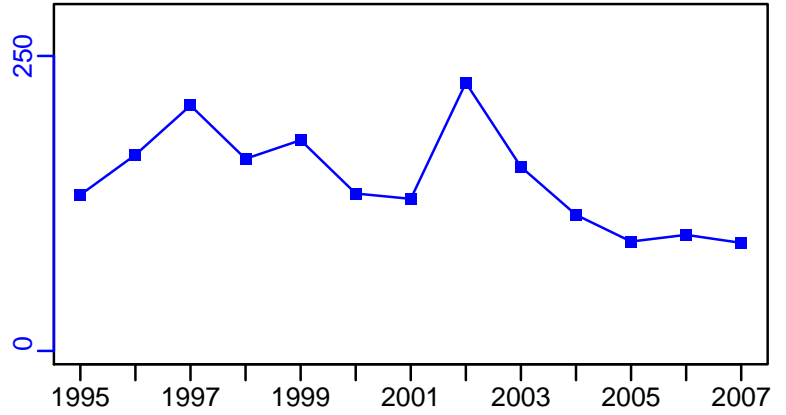
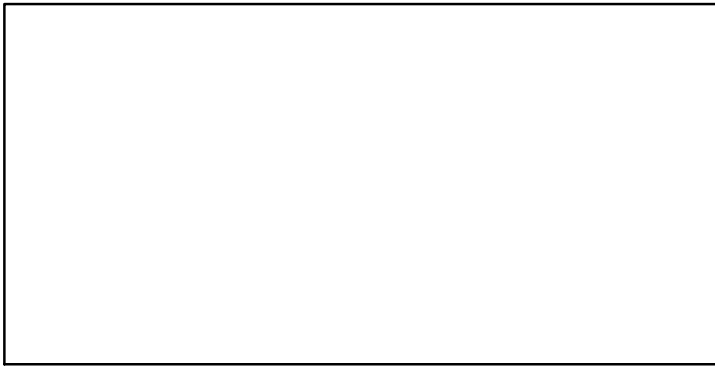
Grey Grunt West Africa Subgroup 3 [GGRUNTWASG3]

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

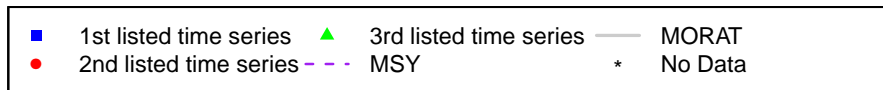
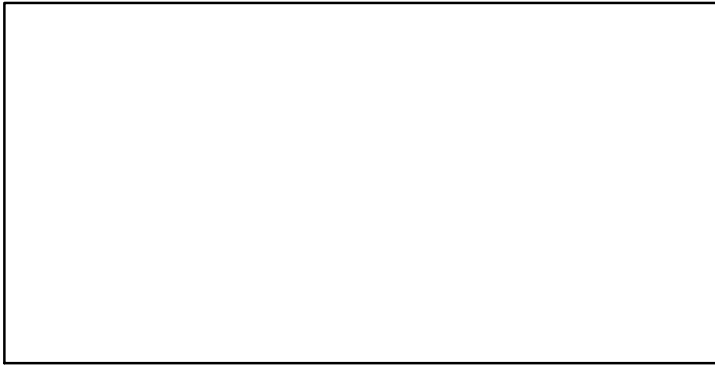
TAC*, Cpair*, Cadv*



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



EFFORT*

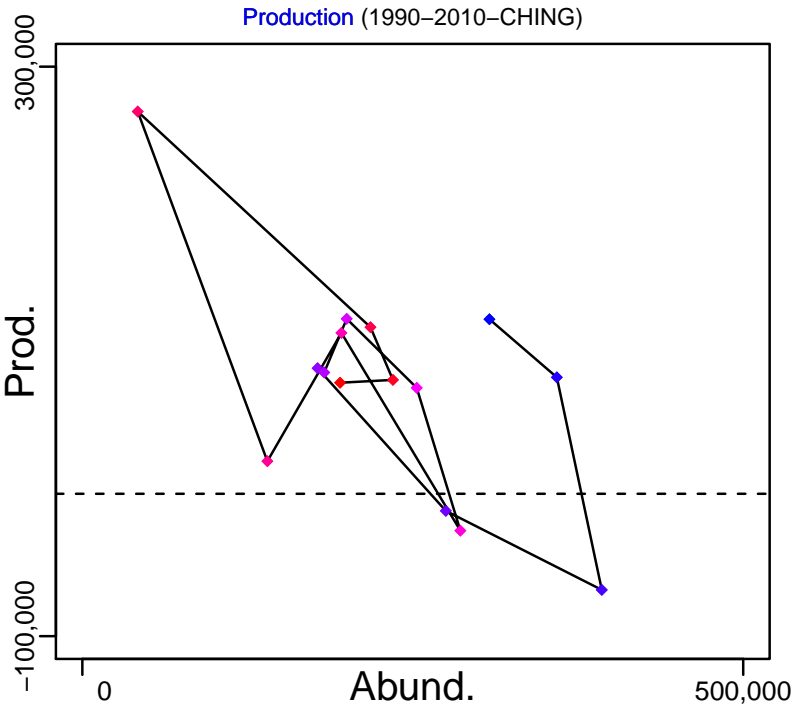


Horse Mackerel West Africa [HMACKWA]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Trachurus trachurus |
| Current Assess ID | FAO-SPNWA-HMACKWA-1990-2010-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

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

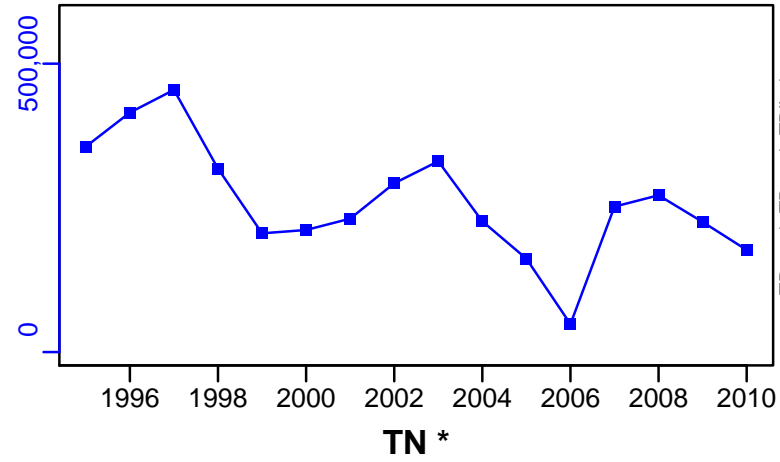
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2010 | 153,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 1 | - | - |
| ER | ER-calc-ratio | 2010 | 1 | - | - |
| TC | TC-MT | 2010 | 110,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2010 | 2.32 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |



◆ Start Year ◆ End Year * No Data

Horse Mackerel West Africa [HMACKWA]

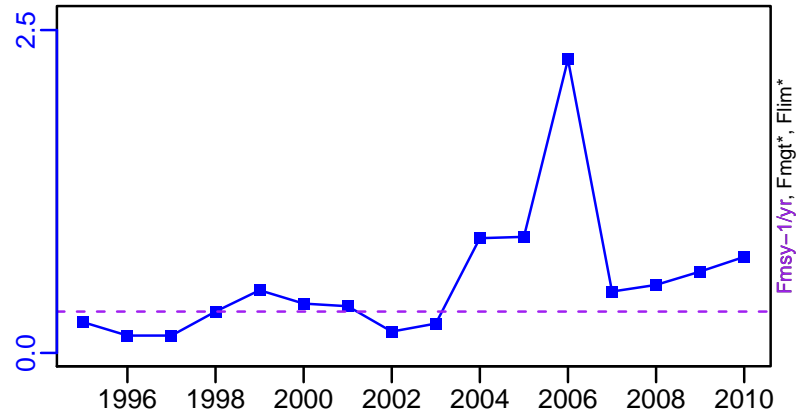
TB-MT (1990-2010-CHING)



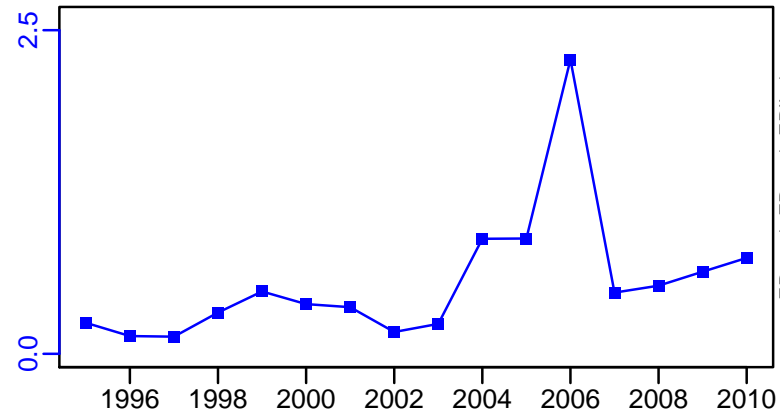
SSB*



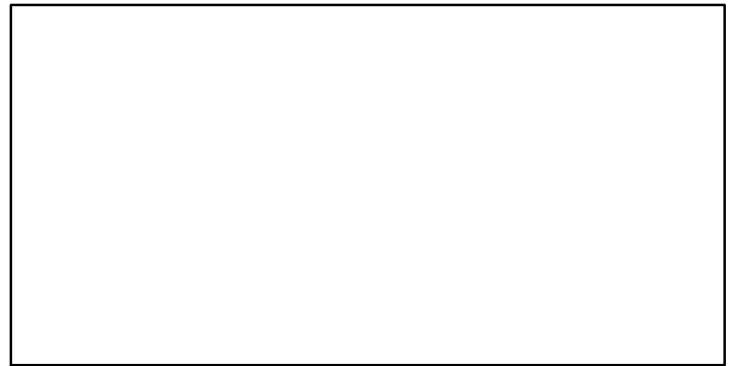
F-1/yr (1990-2010-CHING)



ER-calc-ratio (1990-2010-CHING)



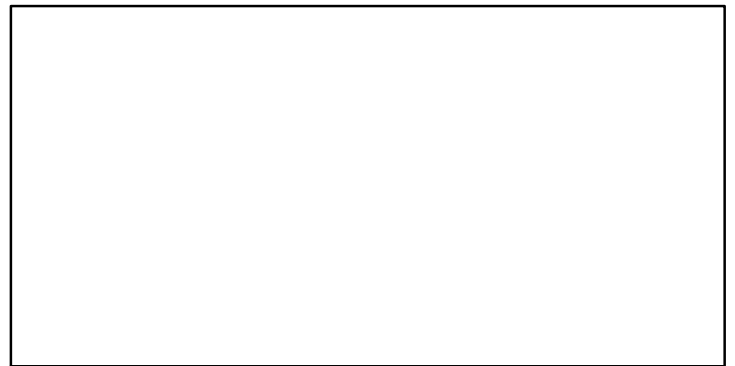
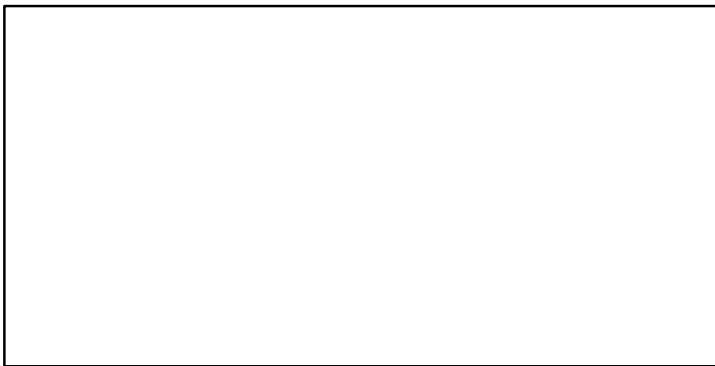
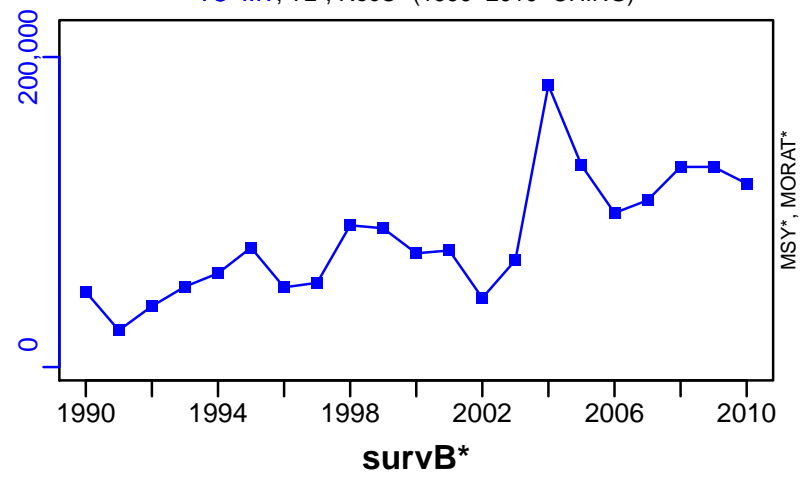
Recruits*



Horse Mackerel West Africa [HMACKWA]

TC-MT, TL*, RecC* (1990-2010-CHING)

TAC*, Cpair*, Cadv*



EFFORT*



Large-eye Dentex West Africa Subgroup 3 [LDENTWASG3]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Dentex macrophthalmus |
| Current Assess ID | FAO-DRSS-LDENTWASG3-1995-2007-CHING |
| Area | West Africa Subgroup 3 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

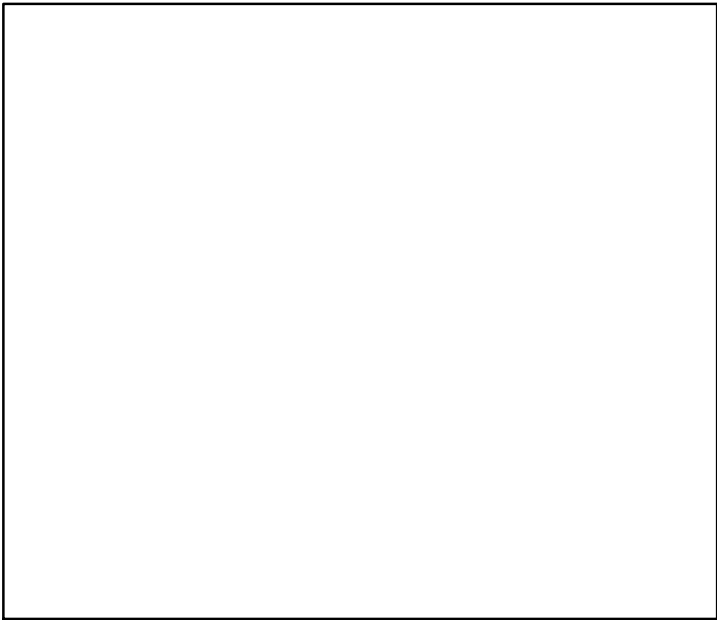
Kobe MSY*



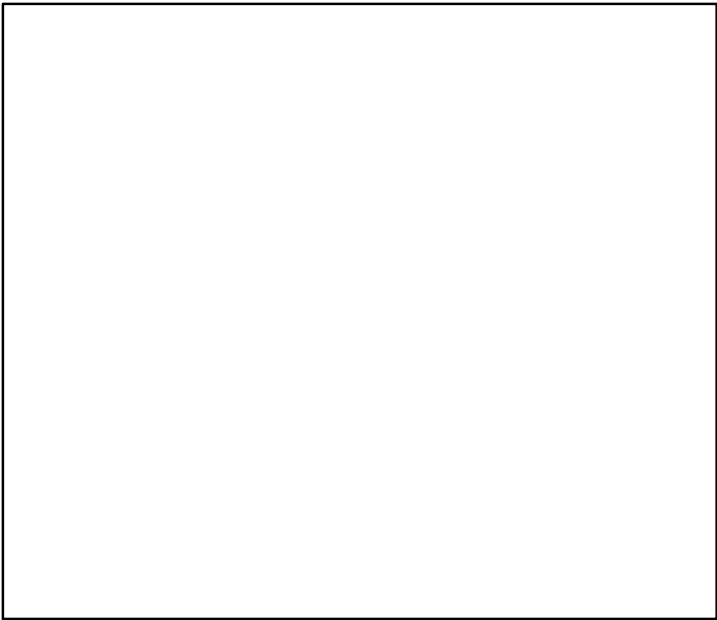
Kobe MGT*



Spawner Recruit*



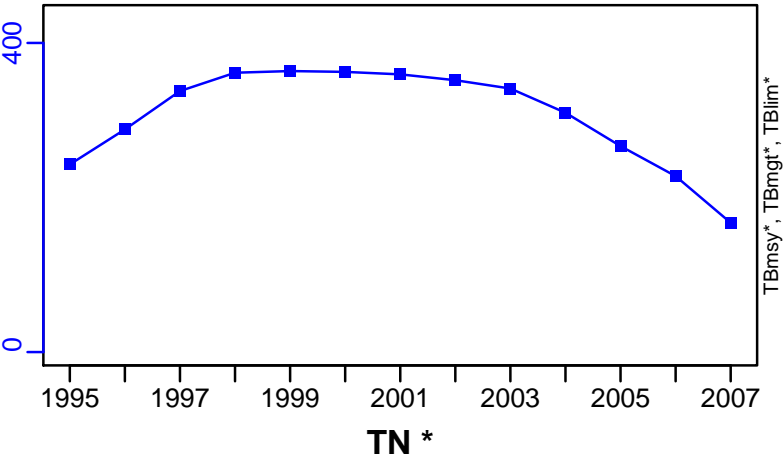
Production*



◆ Start Year ◆ End Year * No Data

Large-eye Dentex West Africa Subgroup 3 [LDENTWASG3]

TB-index (1995–2007–CHING)



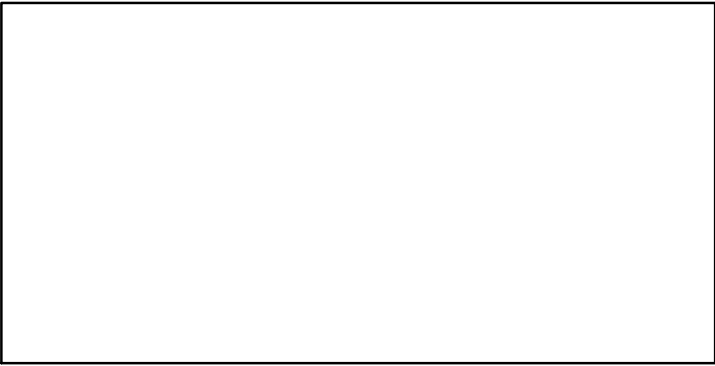
SSB*



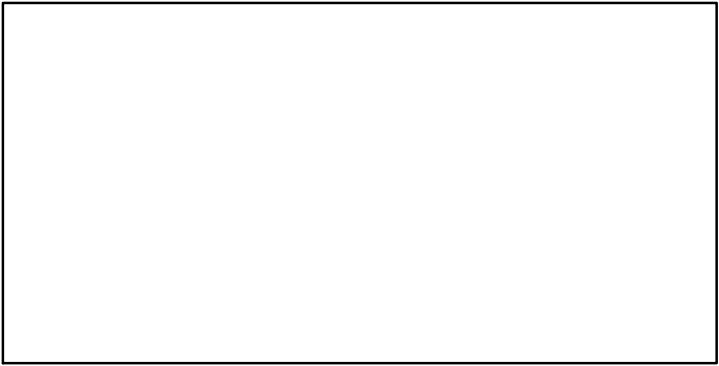
F*



ER*

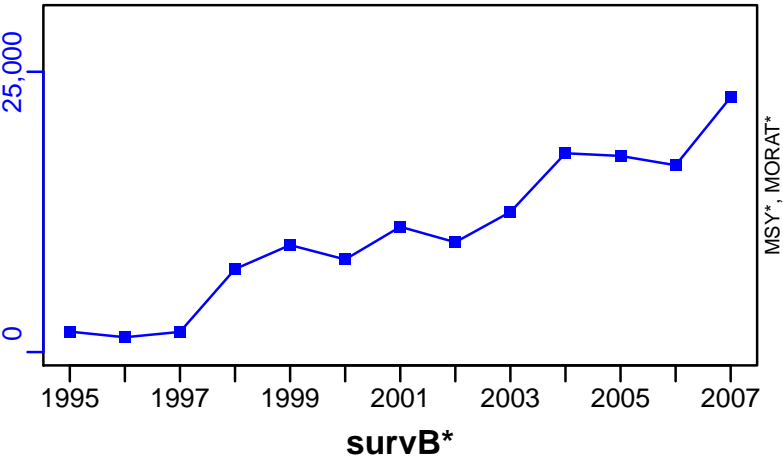


Recruits*



Large-eye Dentex West Africa Subgroup 3 [LDENTWASG3]

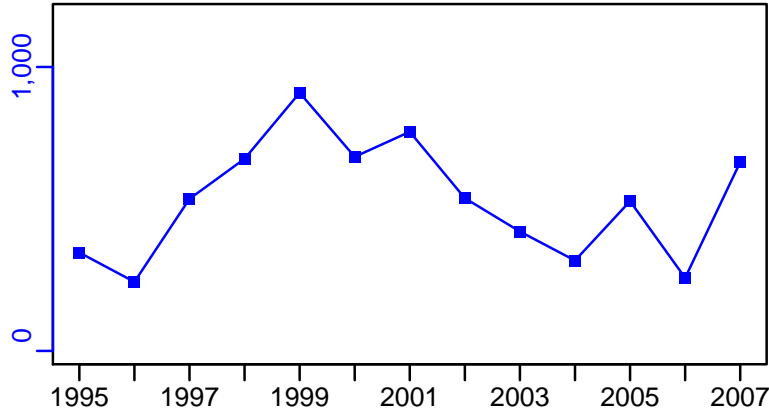
TC-MT, TL*, RecC* (1995-2007-CHING)



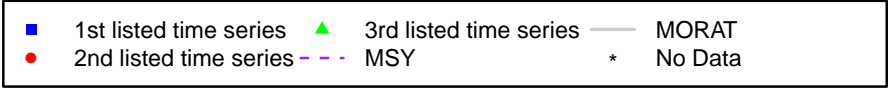
TAC*, Cpair*, Cadv*



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



EFFORT*



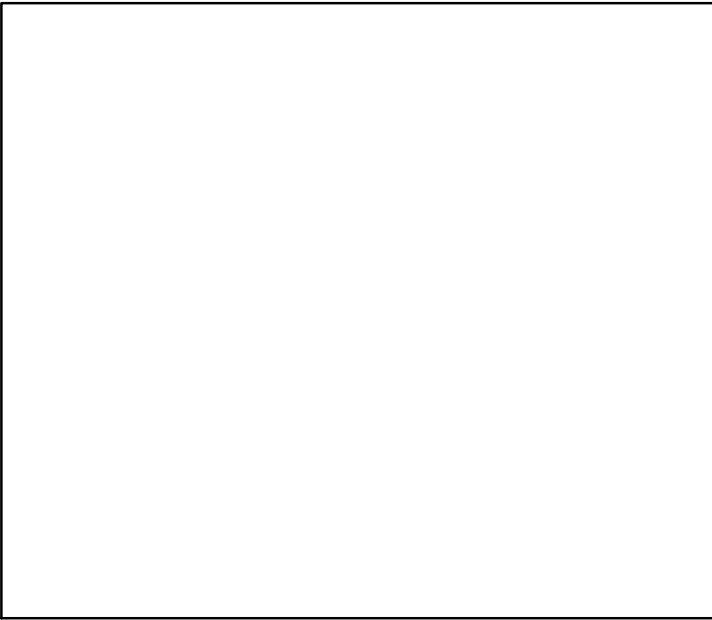
Octopus West Africa [OCTOWA]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Octopus vulgaris |
| Current Assess ID | FAO-DRSS-OCTOWA-1990-2007-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

| Time Series | | | | | |
|-------------|-------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2007 | 1160 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

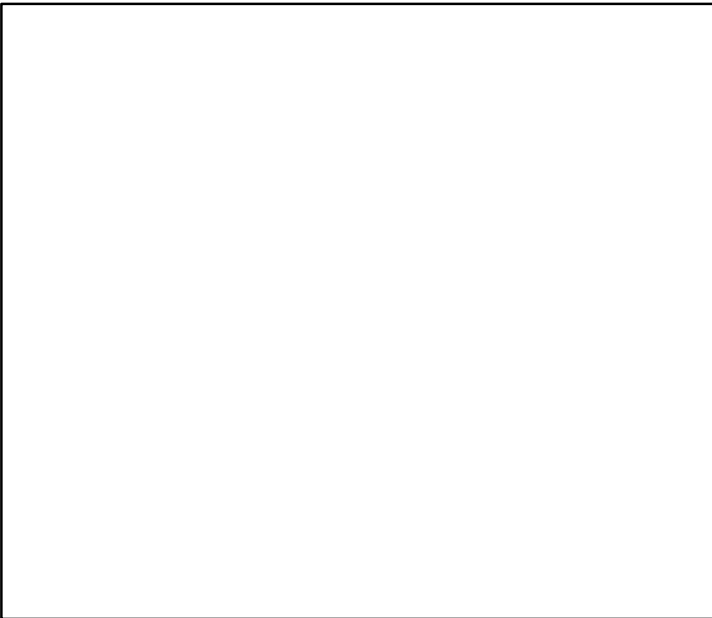
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



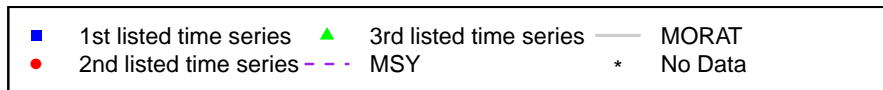
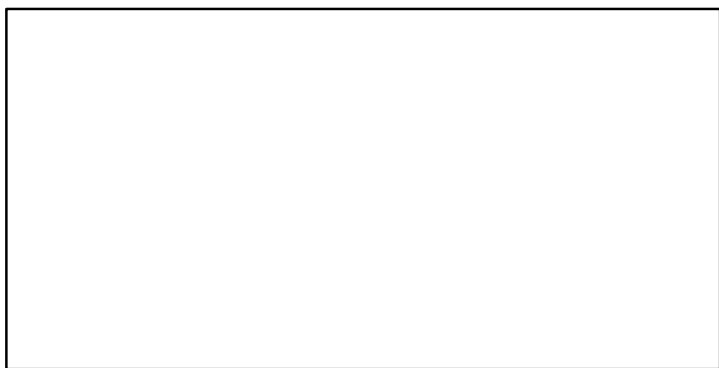
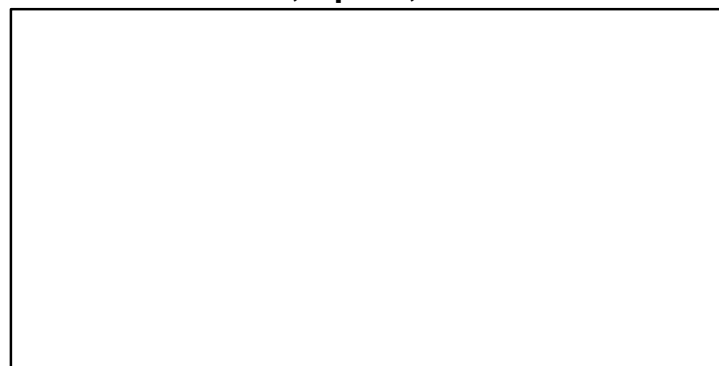
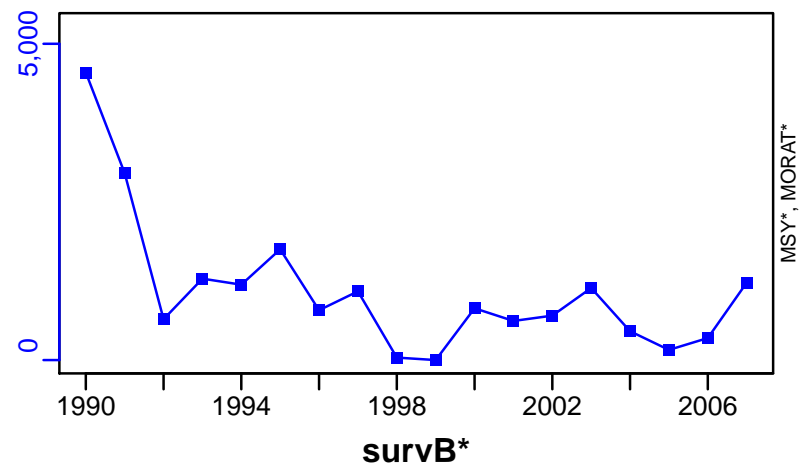
Recruits*



Octopus West Africa [OCTOWA]

TC-MT, TL*, RecC* (1990-2007-CHING)

TAC*, Cpair*, Cadv*



Red Pandora West Africa Subgroup 2 [RPANDWASG2]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Pagellus bellottii |
| Current Assess ID | FAO-DRSS-RPANDWASG2-1990-2007-CHING |
| Area | West Africa Subgroup 2 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

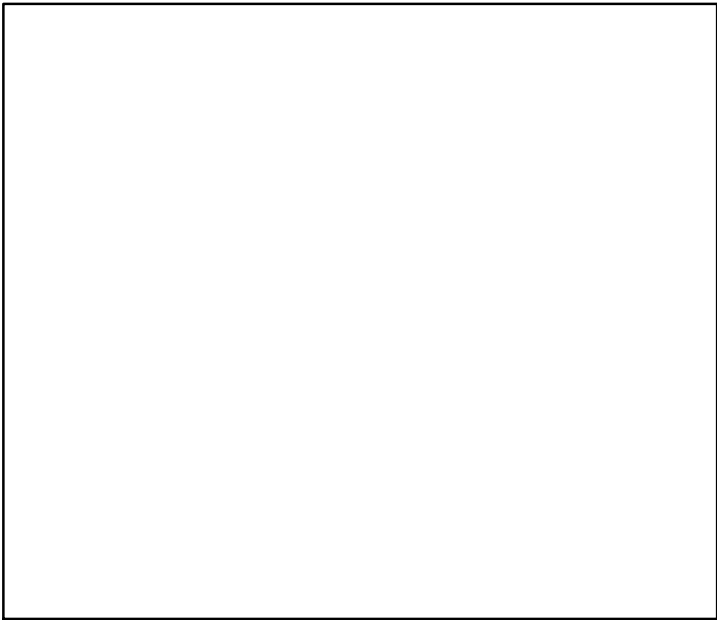
Kobe MSY*



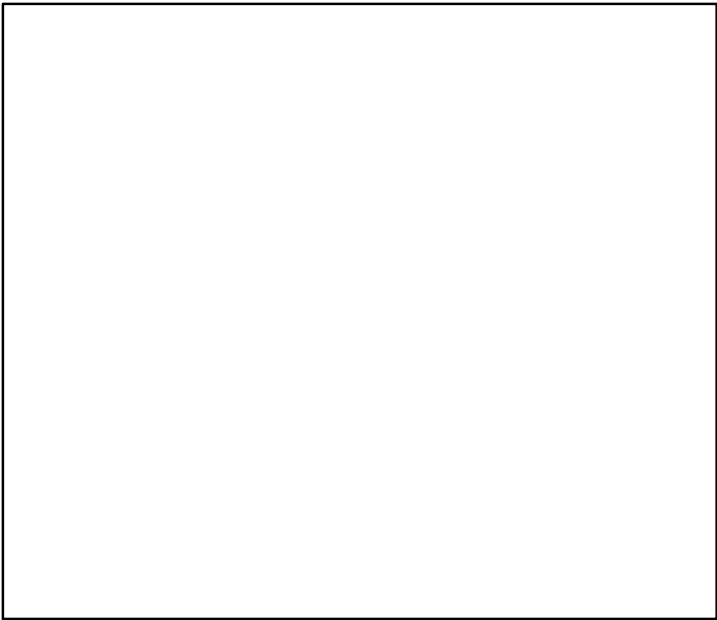
Kobe MGT*



Spawner Recruit*



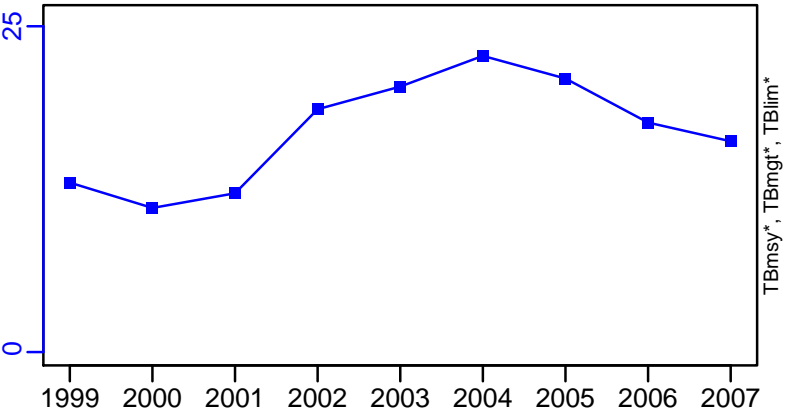
Production*



◆ Start Year ◆ End Year * No Data

Red Pandora West Africa Subgroup 2 [RPANDWASG2]

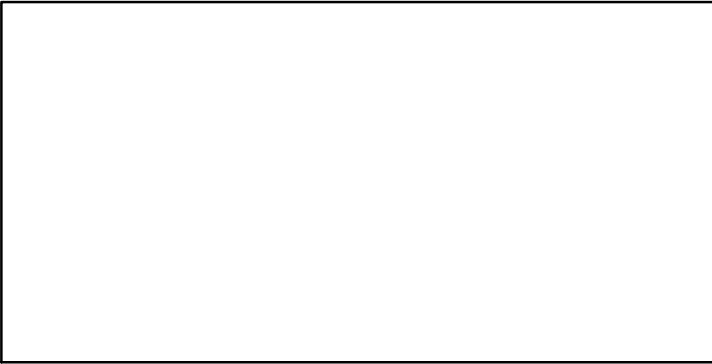
TB-index (1990–2007–CHING)



SSB*



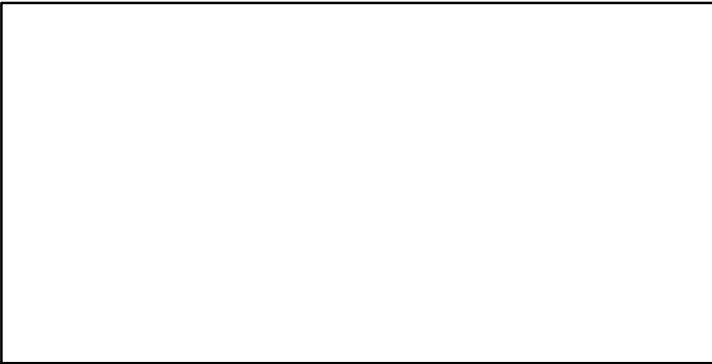
TN *



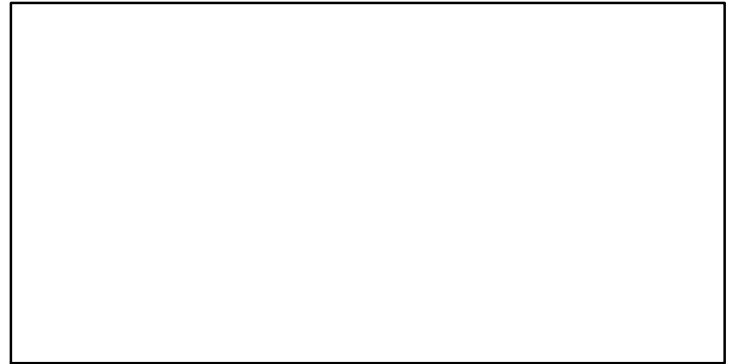
F*



ER*



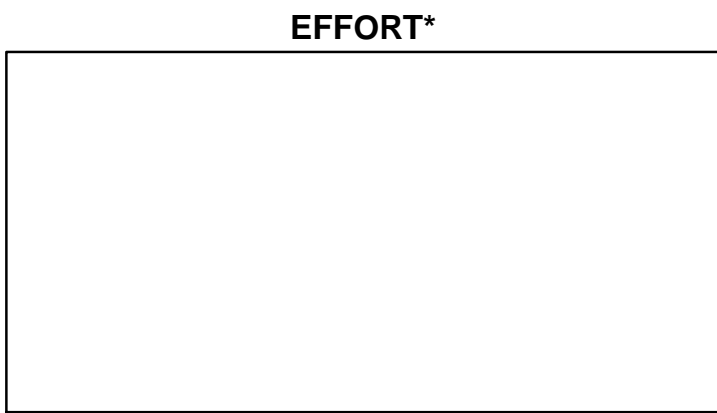
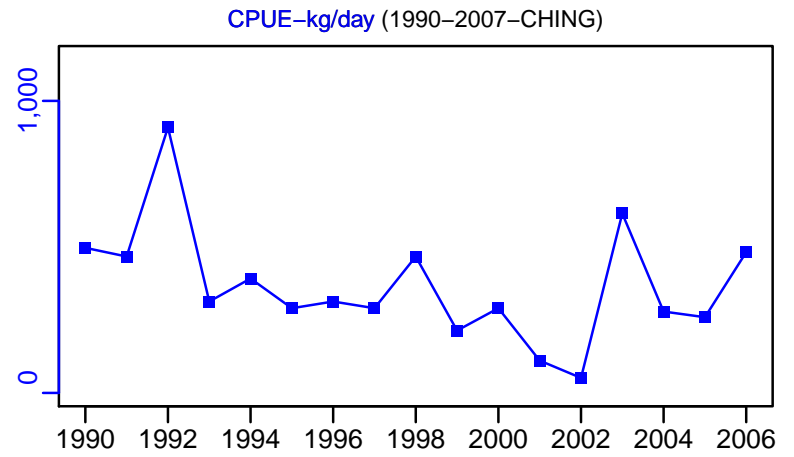
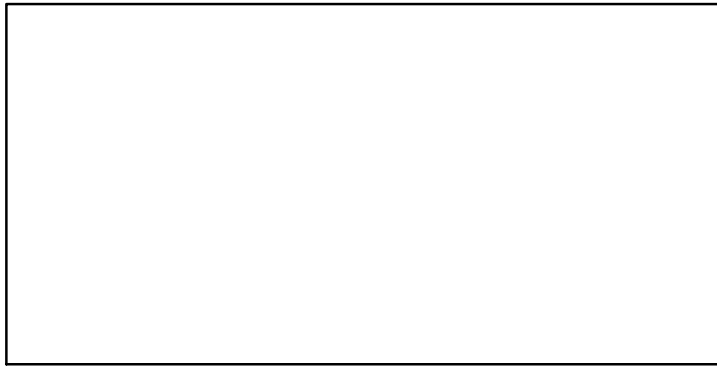
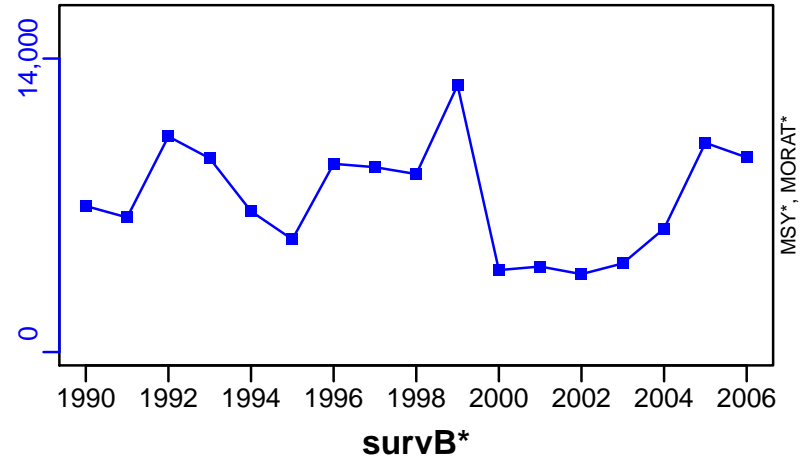
Recruits*



Red Pandora West Africa Subgroup 2 [RPANDWASG2]

TC-MT, TL*, RecC* (1990-2007-CHING)

TAC*, Cpair*, Cadv*



EFFORT*



Round Sardinella West Africa [RSARDINWA]

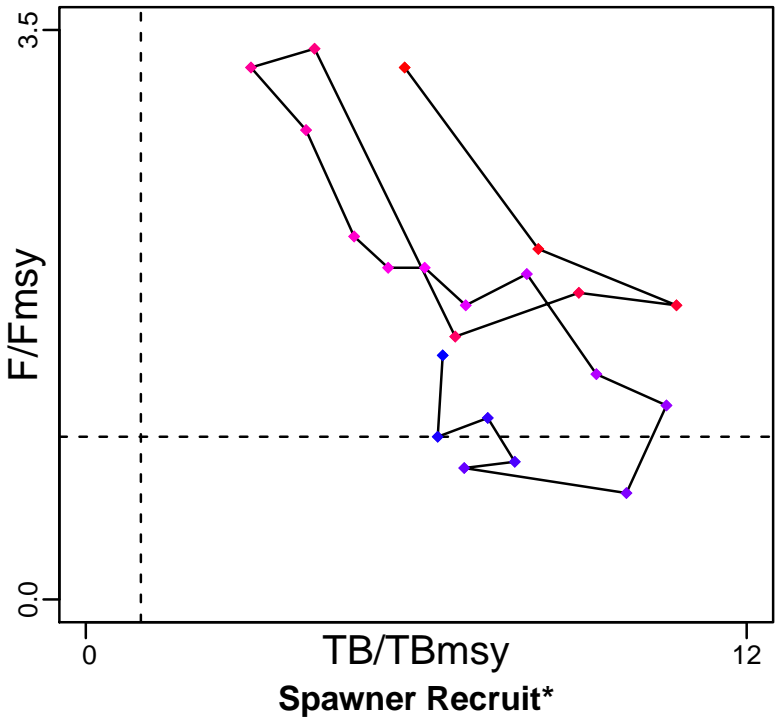
| Metadata | |
|-----------------------------|--|
| Scientific Name | Sardinella aurita |
| Current Assess ID | FAO-SPNWA-RSARDINWA-1990-2010-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

| Reference Points | | | |
|------------------|-----------|-----------|---------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2010 | 110,021 |
| SSBmsy | - | - | - |
| Fmsy | Fmsy-1/yr | 2010 | 0.26 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

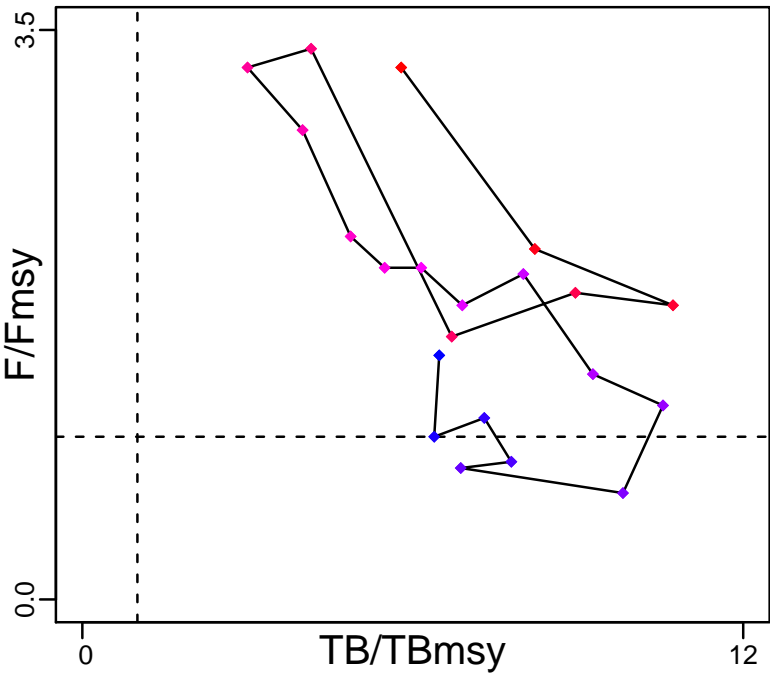
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2010 | 637,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 1 | - | - |
| ER | ER-calc-ratio | 2010 | 1 | - | - |
| TC | TC-MT | 2010 | 540,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2010 | 5.79 | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2010 | 3.27 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Round Sardinella West Africa [RSARDINWA]

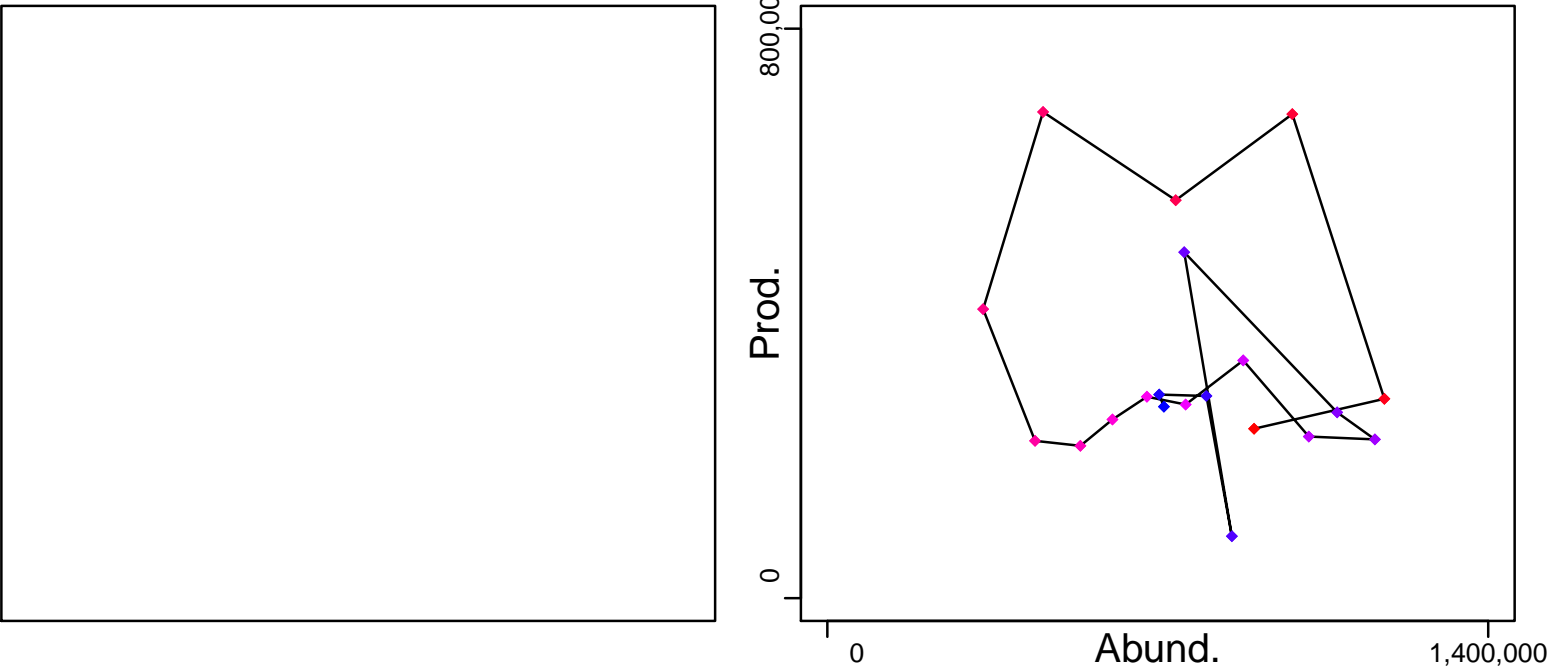
Kobe MSYpref (1990–2010–CHING)



Kobe MGTpref (1990–2010–CHING)

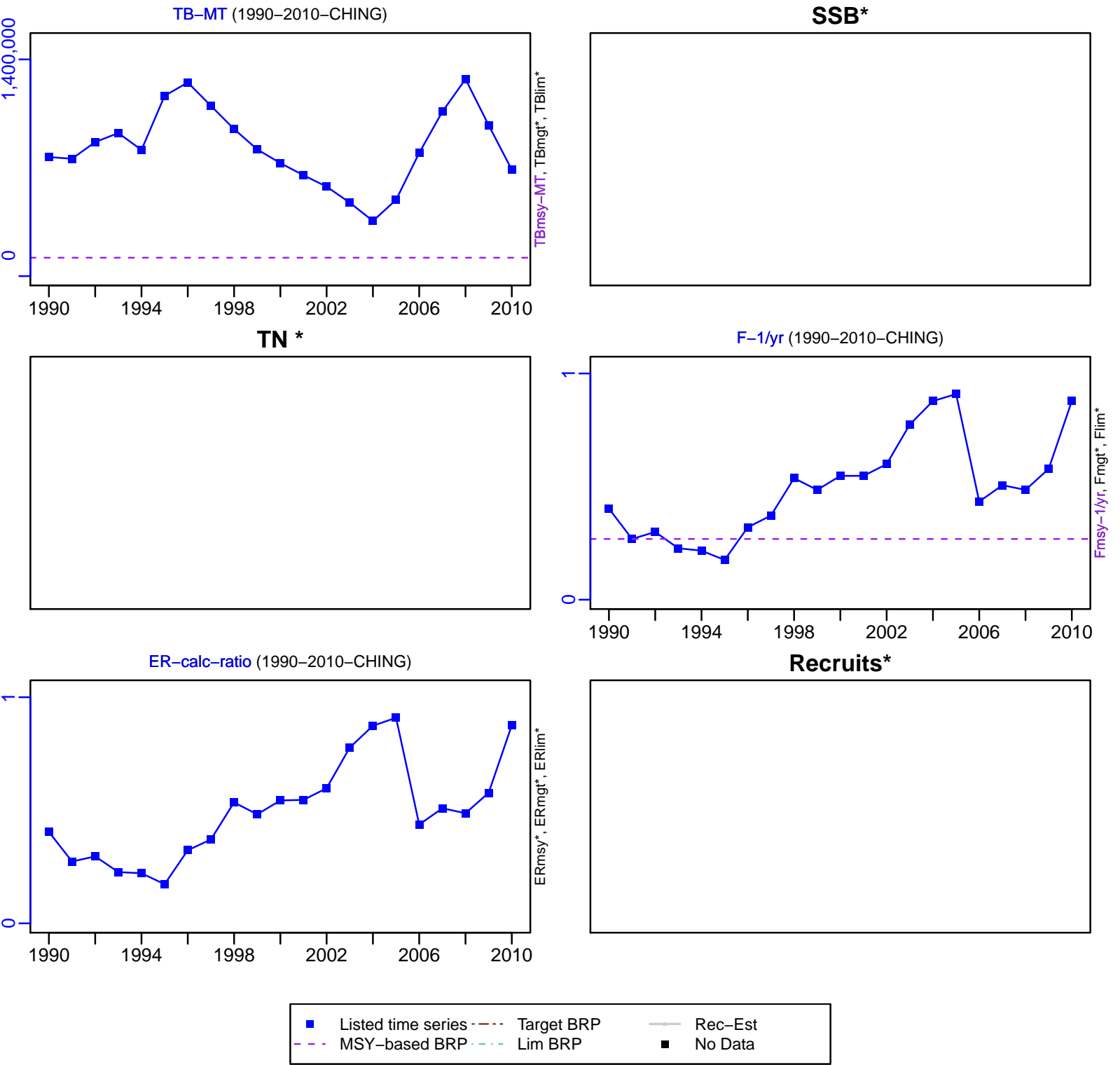


Production (1990–2010–CHING)



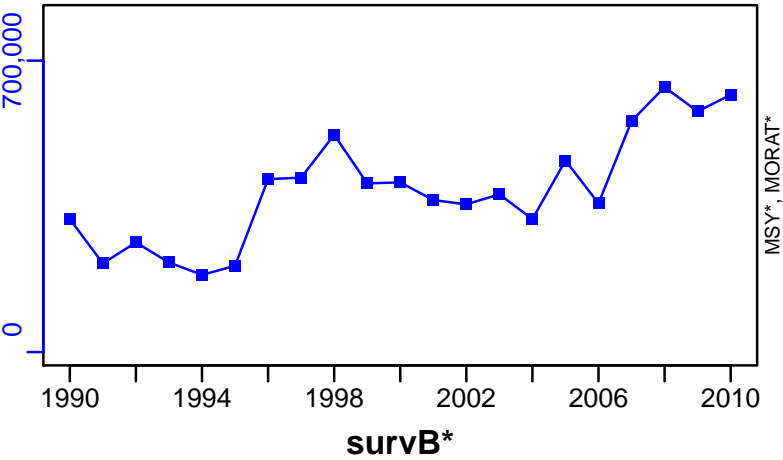
◆ Start Year ◆ End Year * No Data

Round Sardinella West Africa [RSARDINWA]



Round Sardinella West Africa [RSARDINWA]

TC-MT, TL*, RecC* (1990-2010-CHING)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Sardinella West Africa [SARDINWA]

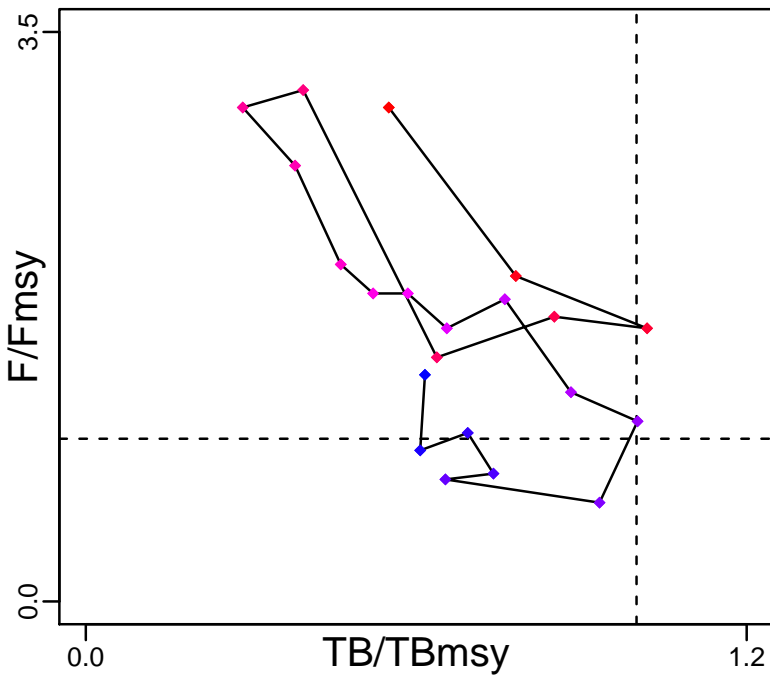
| Metadata | |
|-----------------------------|--|
| Scientific Name | Sardinella spp |
| Current Assess ID | FAO-SPNWA-SARDINWA-1990-2010-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

| Reference Points | | | |
|------------------|-----------|-----------|-----------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2010 | 1,157,840 |
| SSBmsy | - | - | - |
| Fmsy | Fmsy-1/yr | 2010 | 0.28 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

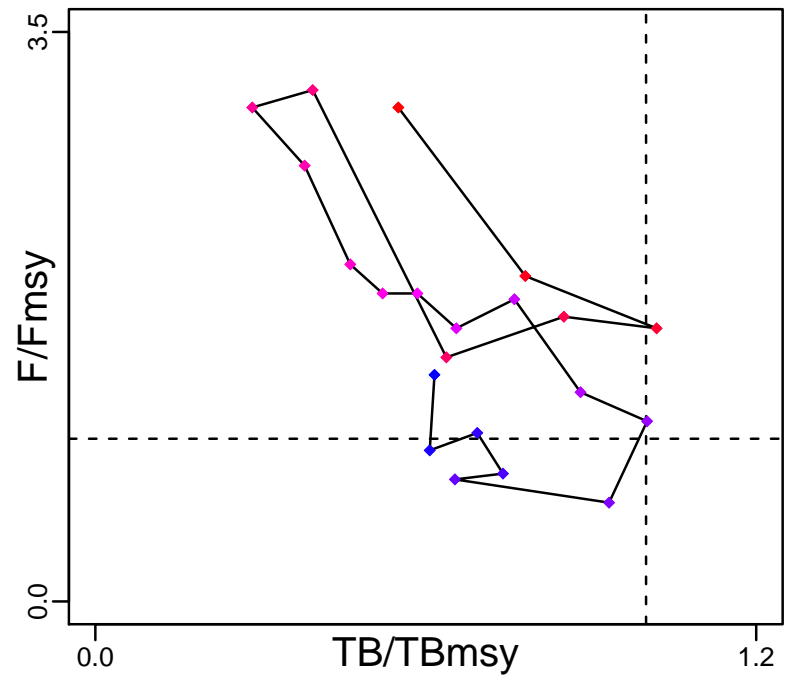
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2010 | 637,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 1 | - | - |
| ER | ER-calc-ratio | 2010 | 1 | - | - |
| TC | TC-MT | 2010 | 540,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2010 | 0.55 | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2010 | 3.04 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Sardinella West Africa [SARDINWA]

Kobe MSYpref (1990–2010–CHING)



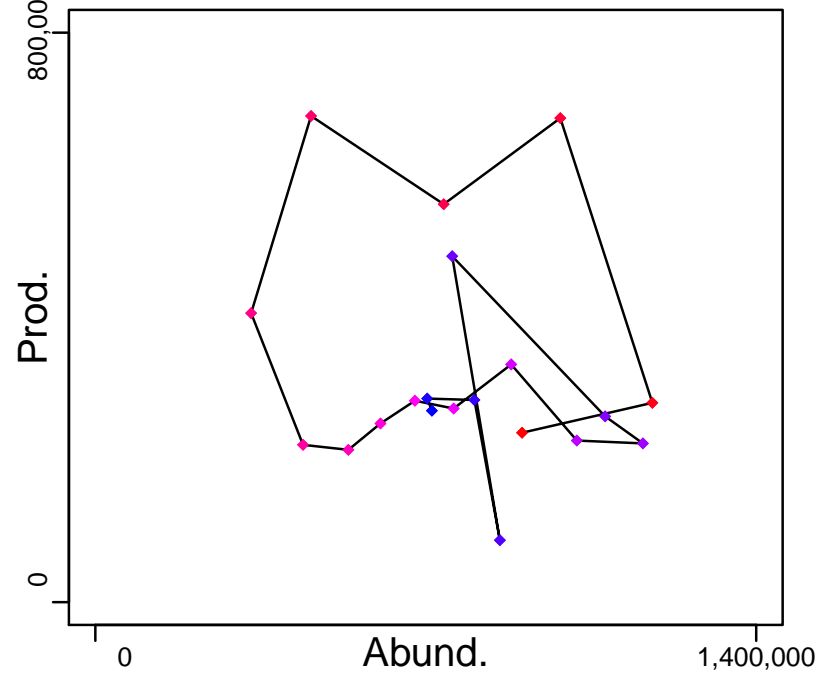
Kobe MGTpref (1990–2010–CHING)



Spawner Recruit*



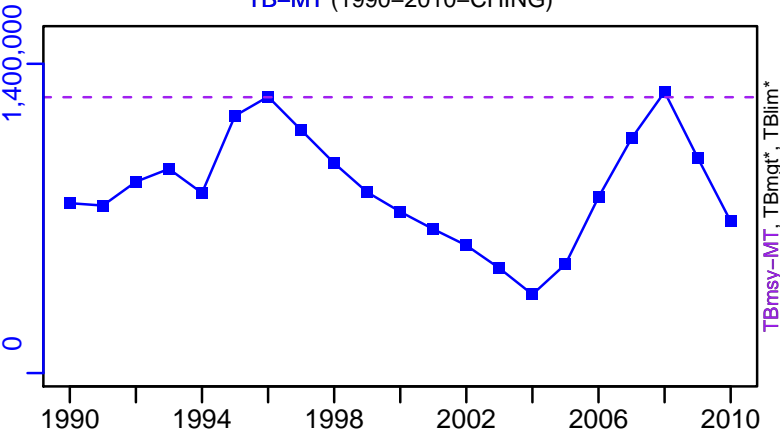
Production (1990–2010–CHING)



◆ Start Year ◆ End Year * No Data

Sardinella West Africa [SARDINWA]

TB-MT (1990-2010-CHING)



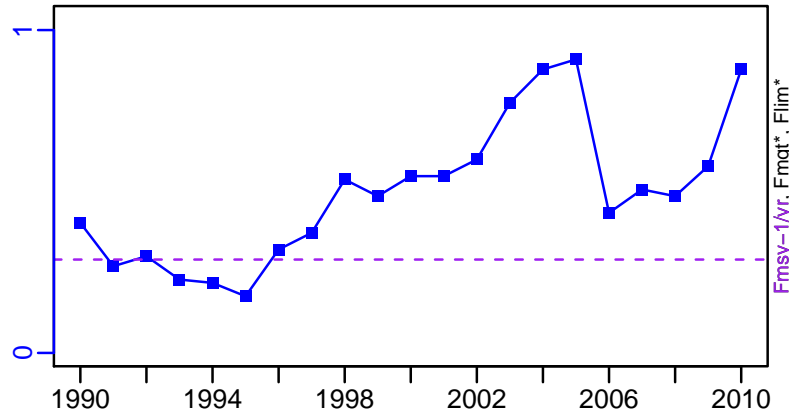
SSB*



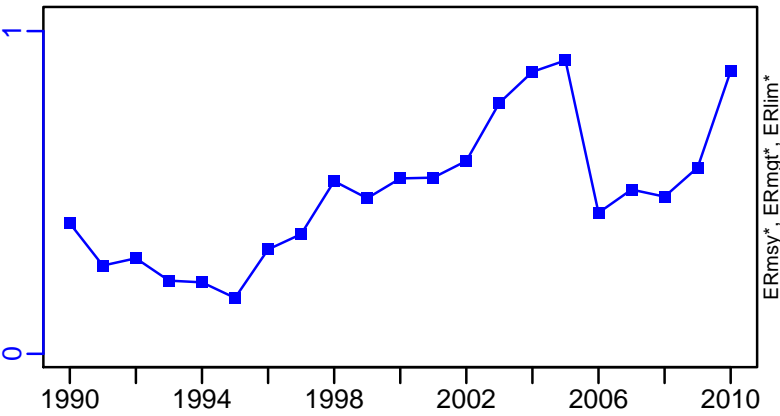
TN *



F-1/yr (1990-2010-CHING)



ER-calc-ratio (1990-2010-CHING)

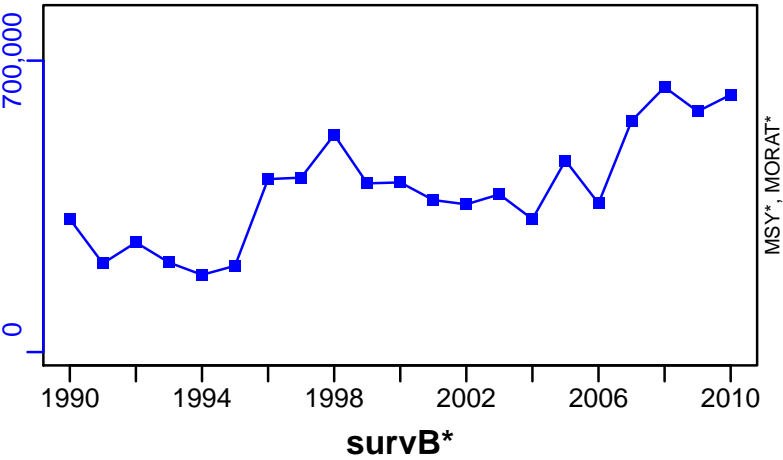


Recruits*



Sardinella West Africa [SARDINWA]

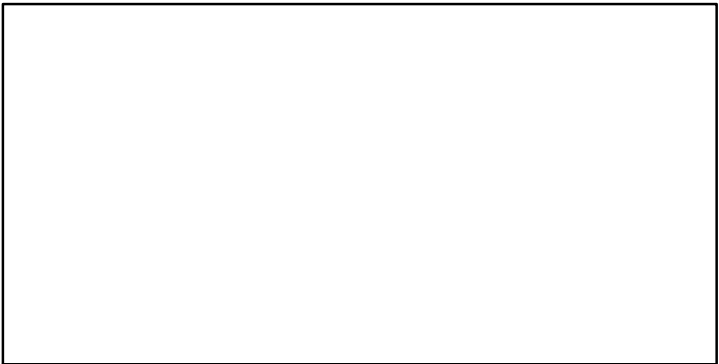
TC-MT, TL*, RecC* (1990-2010-CHING)



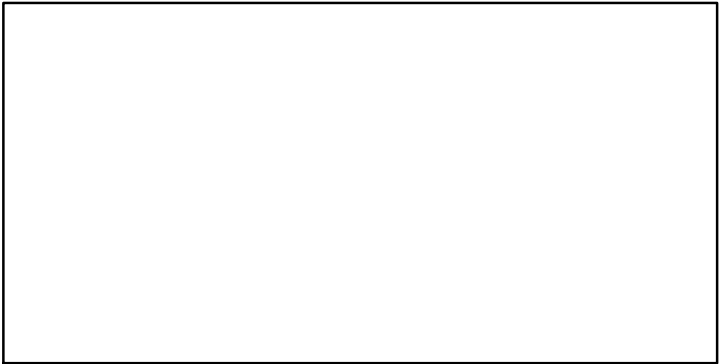
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Sardine West Africa Zone A+B [SARDWAZAB]

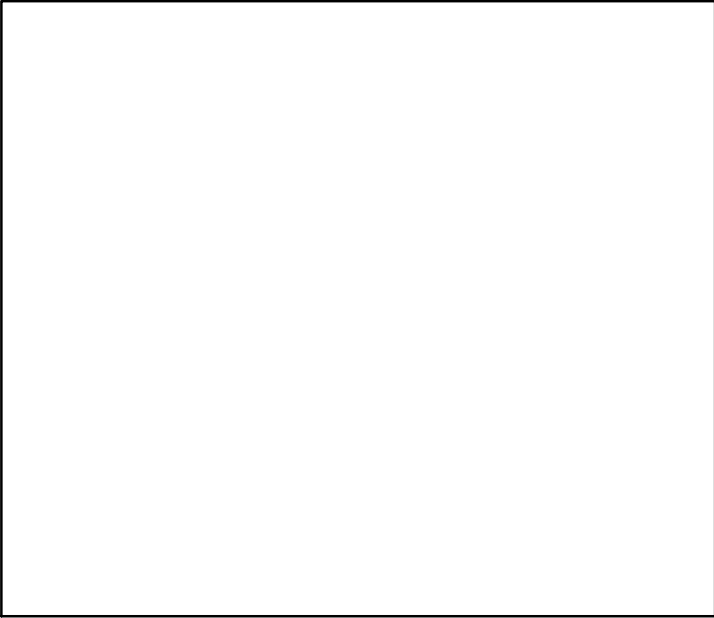
| Metadata | |
|-----------------------------|--|
| Scientific Name | Sardina pilchardus |
| Current Assess ID | FAO-SPNWA-SARDWAZAB-1990-2010-CHING |
| Area | West Africa Zone A+B |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

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

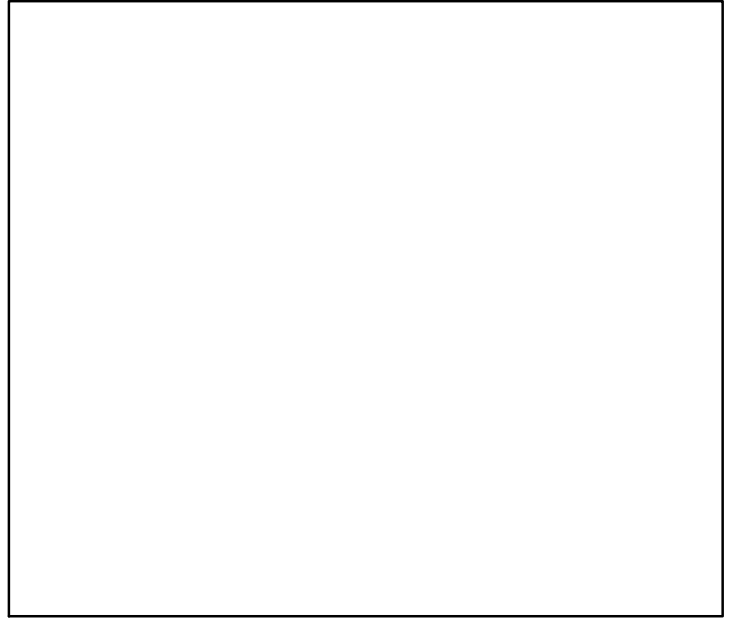
| Time Series | | | | | |
|-------------|---------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2010 | 95,500 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 5 | - | - |
| ER | ER-calc-ratio | 2010 | 5 | - | - |
| TC | TC-MT | 2010 | 505,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Sardine West Africa Zone A+B [SARDWAZAB]

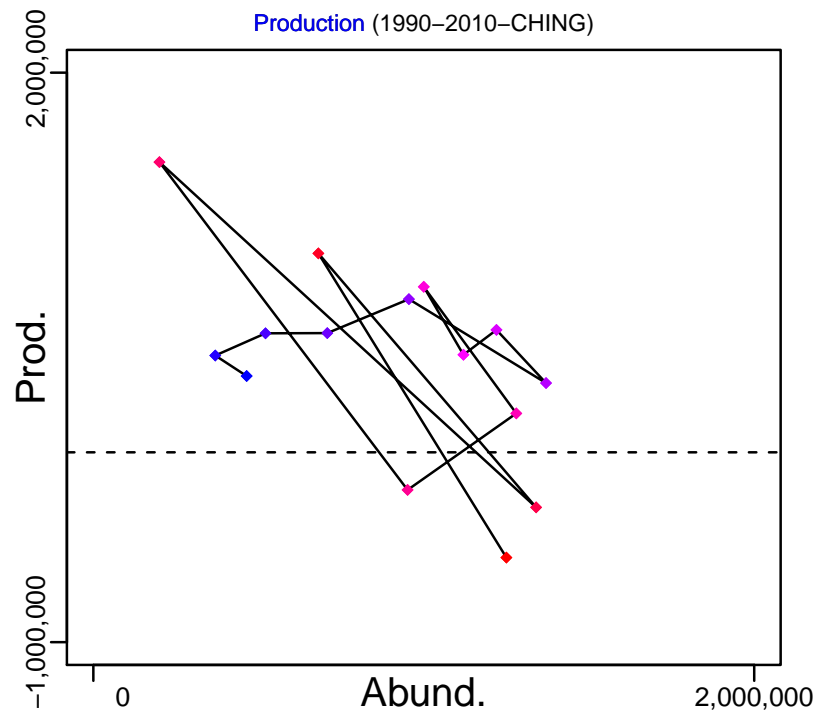
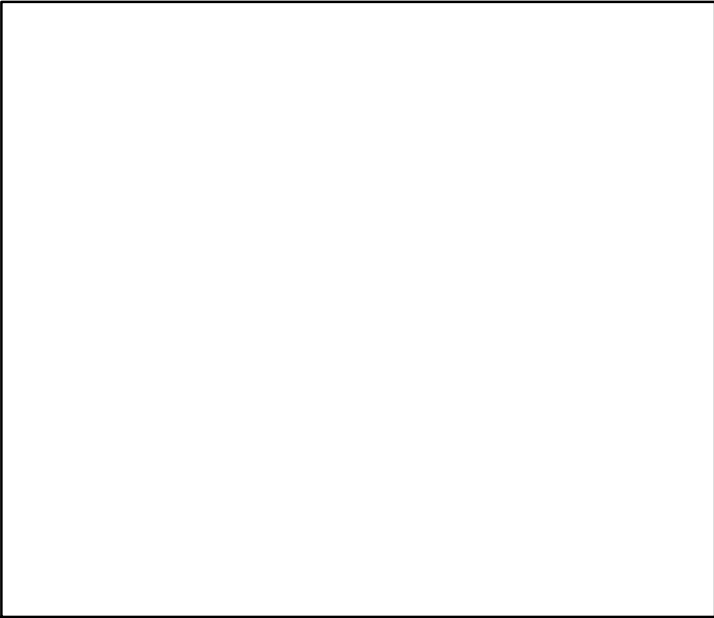
Kobe MSY*



Kobe MGT*



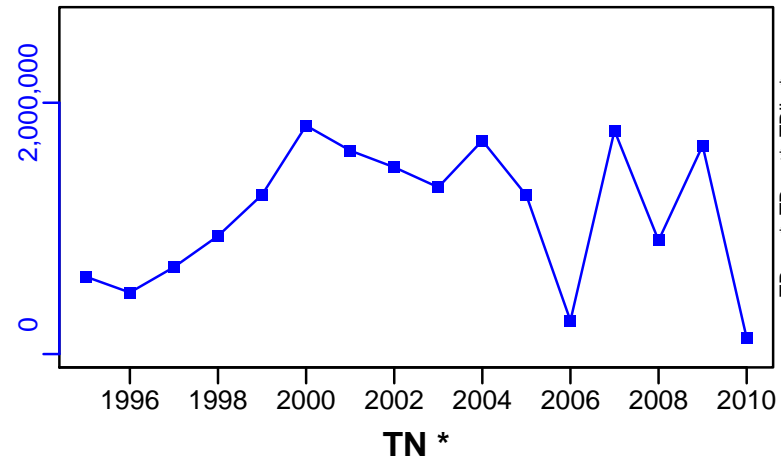
Spawner Recruit*



◆ Start Year ◆ End Year * No Data

Sardine West Africa Zone A+B [SARDWAZAB]

TB-MT (1990-2010-CHING)



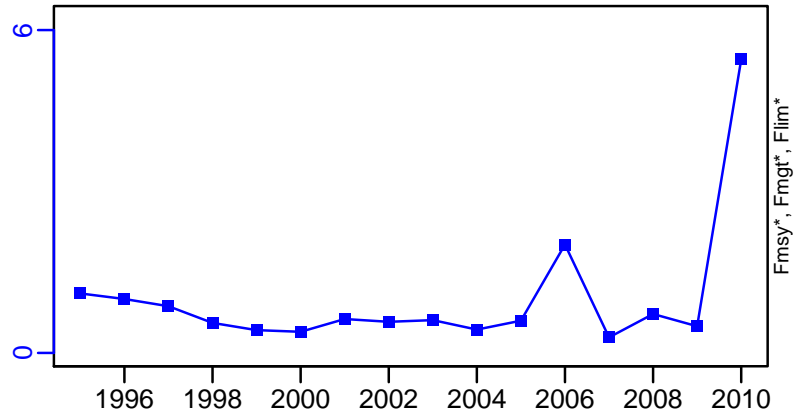
SSB*



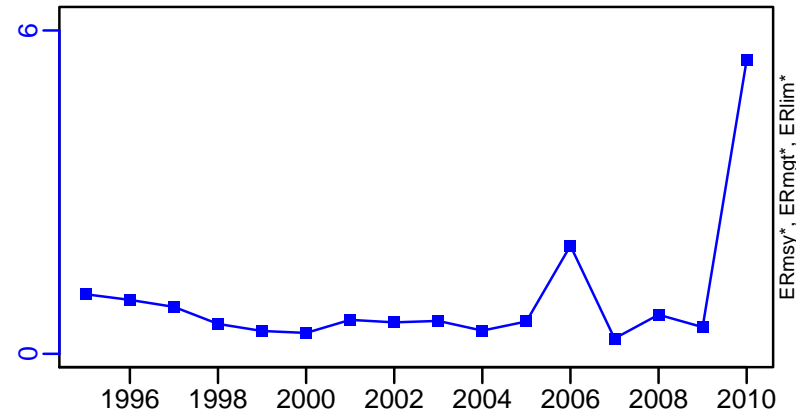
TN *



F-1/yr (1990-2010-CHING)



ER-calc-ratio (1990-2010-CHING)



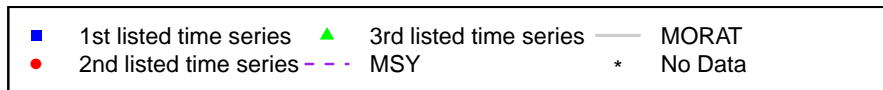
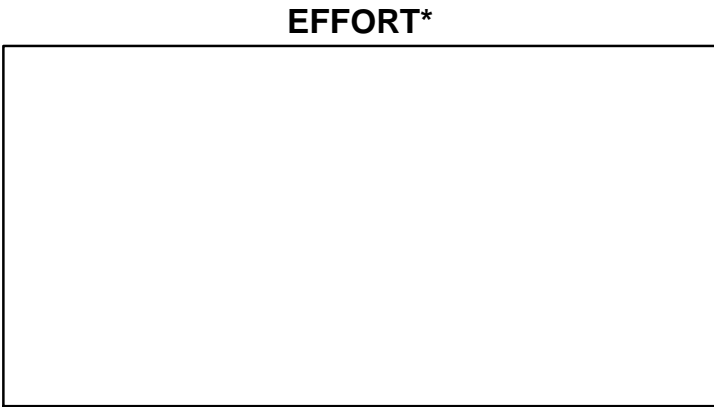
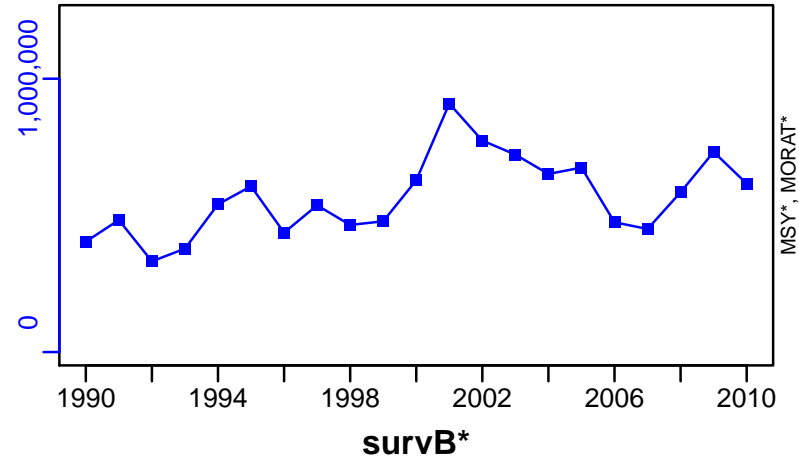
Recruits*



Sardine West Africa Zone A+B [SARDWAZAB]

TC-MT, TL*, RecC* (1990-2010-CHING)

TAC*, Cpair*, Cadv*



Sardine West Africa Zone C [SARDWAZC]

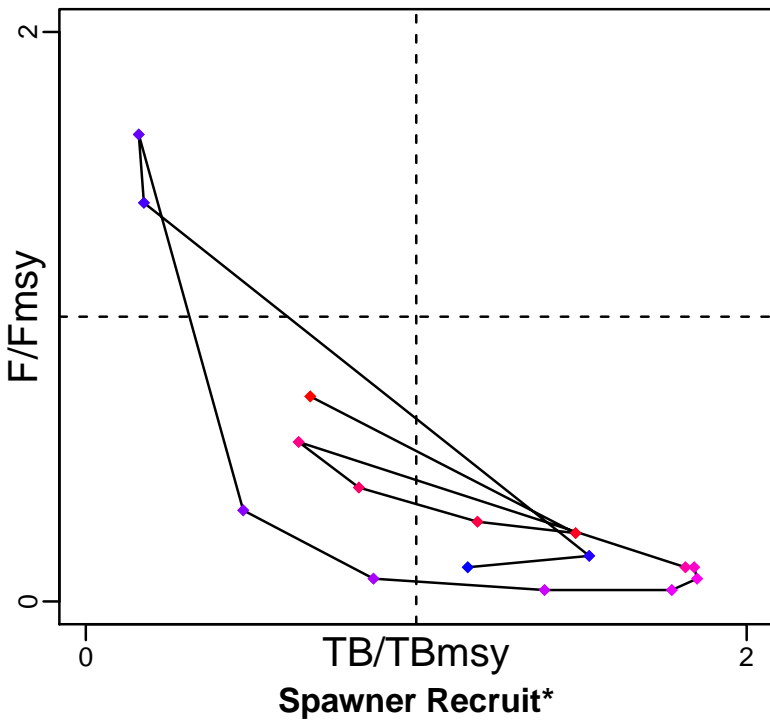
| Metadata | |
|-----------------------------|--|
| Scientific Name | Sardina pilchardus |
| Current Assess ID | FAO-SPNWA-SARDWAZC-1990-2010-CHING |
| Area | West Africa Zone C |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| Asmts in RAM | 2010 |

| Reference Points | | | |
|------------------|-----------|-----------|-----------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2010 | 3,400,129 |
| SSBmsy | - | - | - |
| Fmsy | Fmsy-1/yr | 2010 | 0.25 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

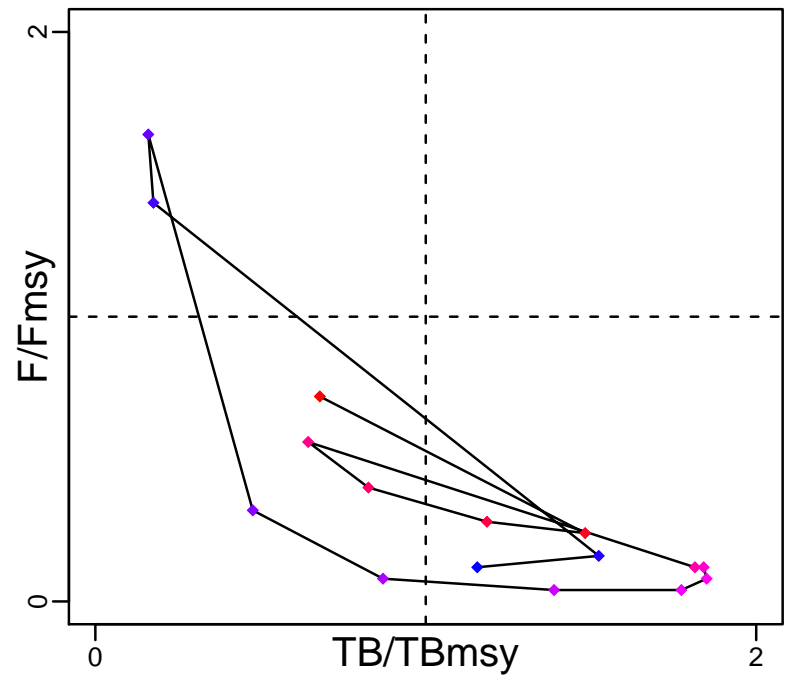
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2010 | 2,310,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 0 | - | - |
| ER | ER-calc-ratio | 2010 | 0 | - | - |
| TC | TC-MT | 2010 | 420,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2010 | 0.68 | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2010 | 0.72 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Sardine West Africa Zone C [SARDWAZC]

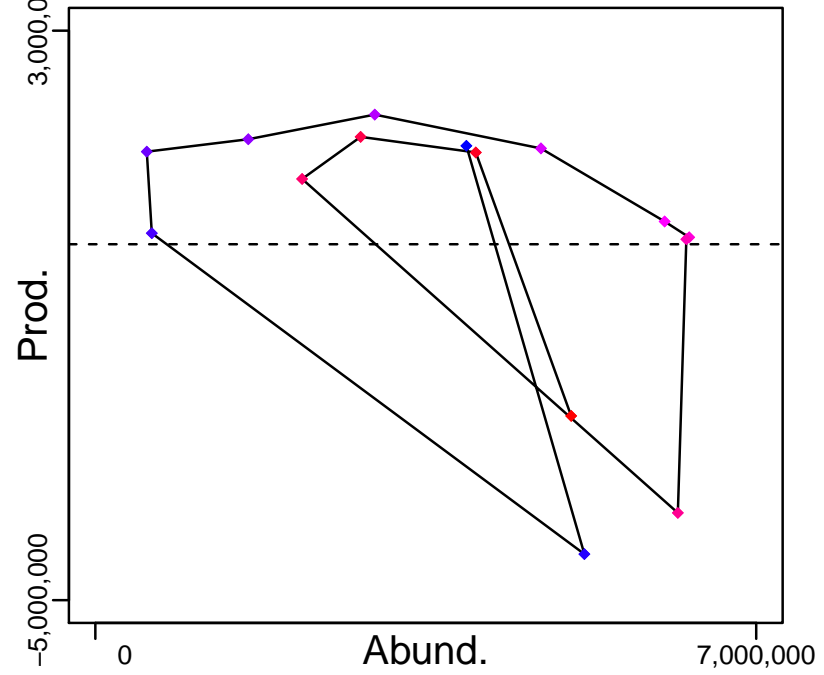
Kobe MSYpref (1990–2010–CHING)



Kobe MGTpref (1990–2010–CHING)



Production (1990–2010–CHING)

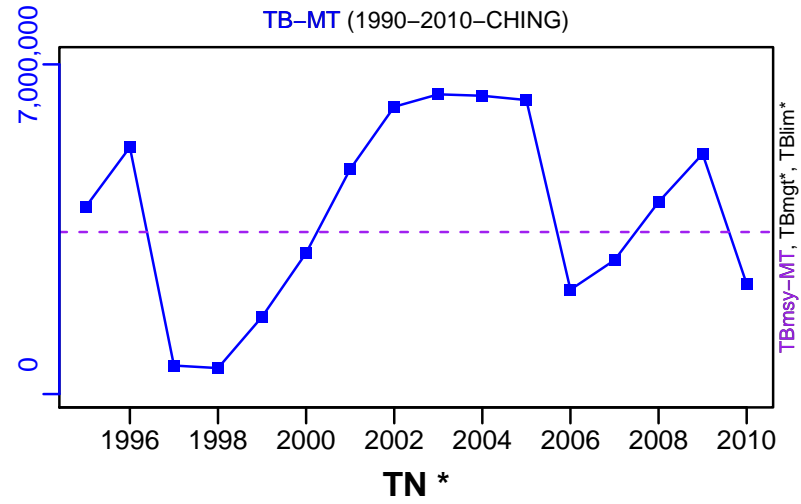


◆ Start Year ◆ End Year * No Data

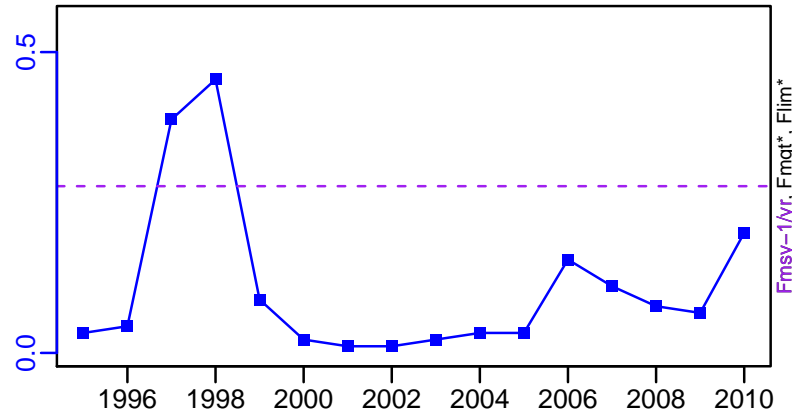
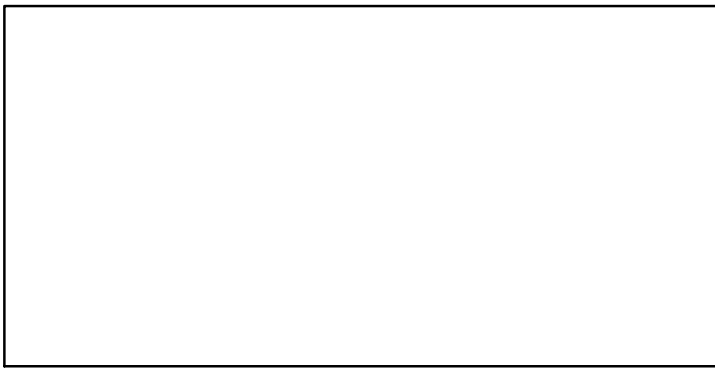
Sardine West Africa Zone C [SARDWAZC]

TB-MT (1990-2010-CHING)

SSB*

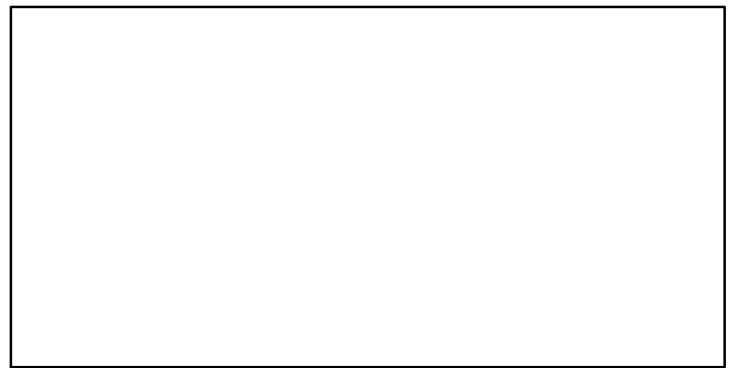
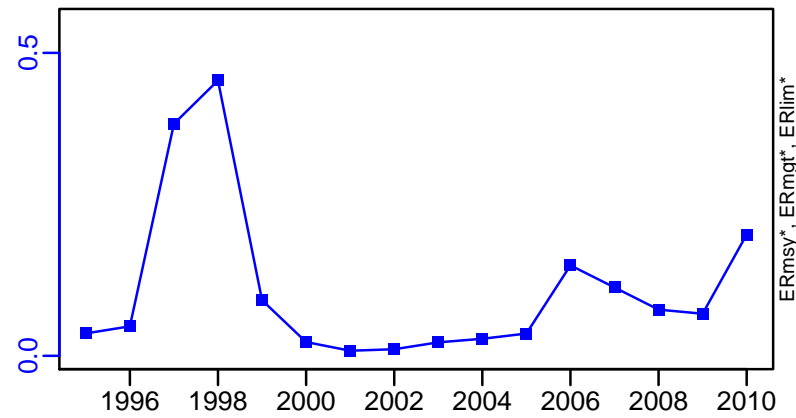


F-1/yr (1990-2010-CHING)



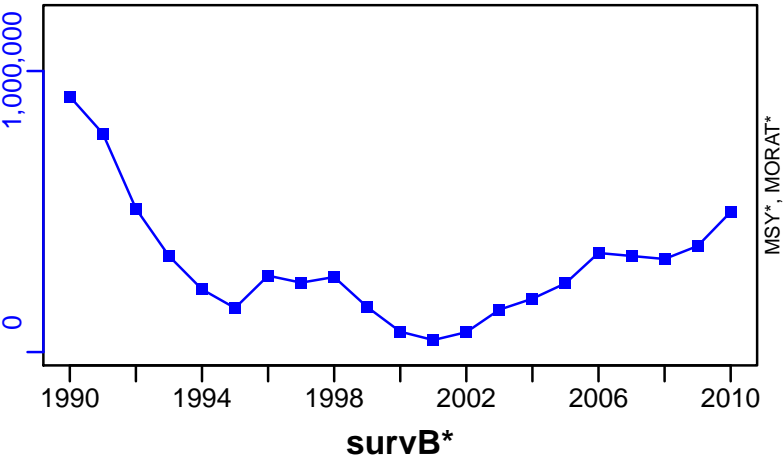
ER-calc-ratio (1990-2010-CHING)

Recruits*



Sardine West Africa Zone C [SARDWAZC]

TC-MT, TL*, RecC* (1990-2010-CHING)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Sole West Africa Subgroup 1 [SOLEWASG1]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Cynoglossus spp |
| Current Assess ID | FAO-DRSS-SOLEWASG1-1994-2007-CHING |
| Area | West Africa Subgroup 1 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

| Time Series | | | | | |
|-------------|-------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2007 | 1490 | | |
| 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

Sole West Africa Subgroup 1 [SOLEWASG1]

TB*



SSB*



TN *



F*



ER*



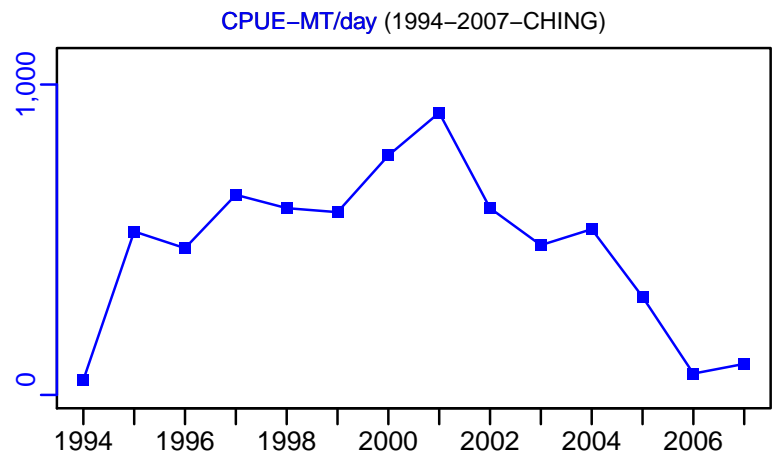
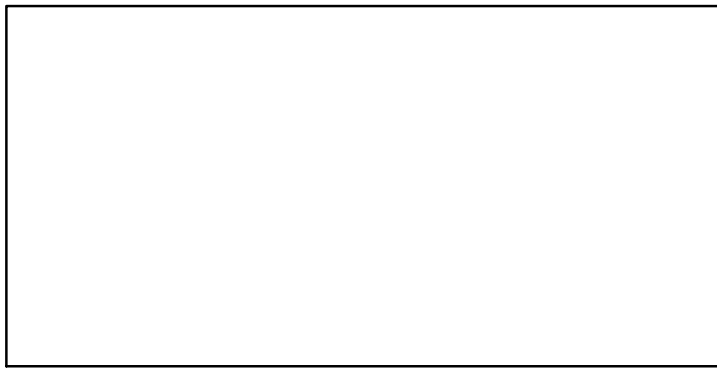
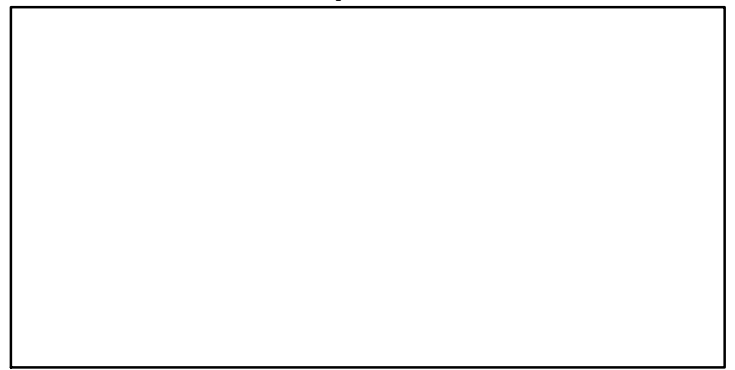
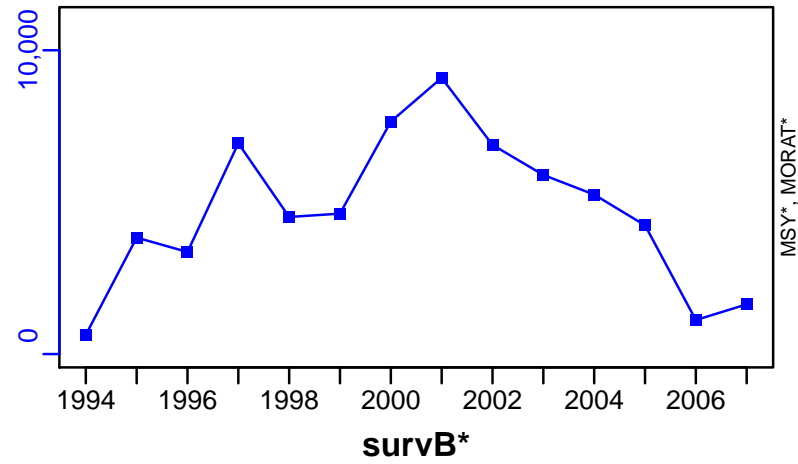
Recruits*



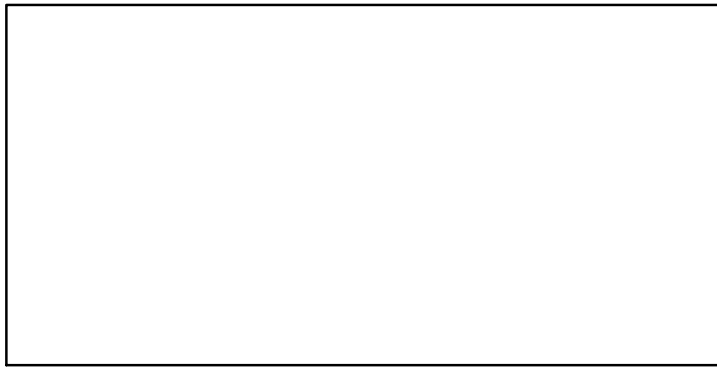
Sole West Africa Subgroup 1 [SOLEWASG1]

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

TAC*, Cpair*, Cadv*



EFFORT*



Sole West Africa Subgroup 3 [SOLEWASG3]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Cynoglossus spp |
| Current Assess ID | FAO-DRSS-SOLEWASG3-1991-2007-CHING |
| Area | West Africa Subgroup 3 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

| Time Series | | | | | |
|-------------|----------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-index | 2007 | 310 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2007 | 1690 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Kobe MSY*



Kobe MGT*



Spawner Recruit*



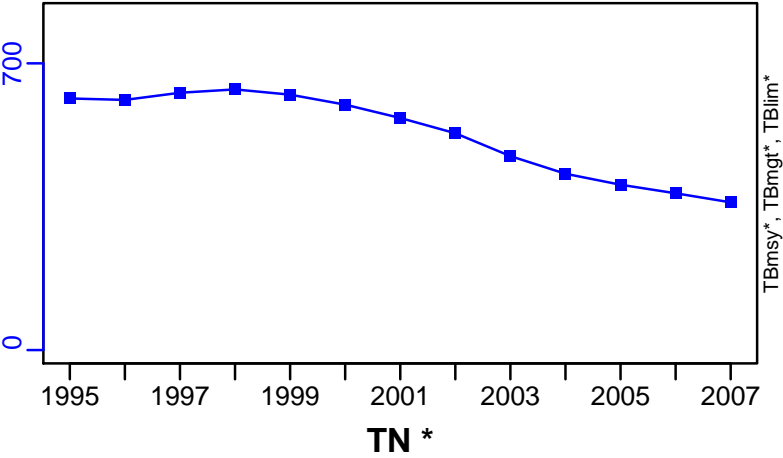
Production*



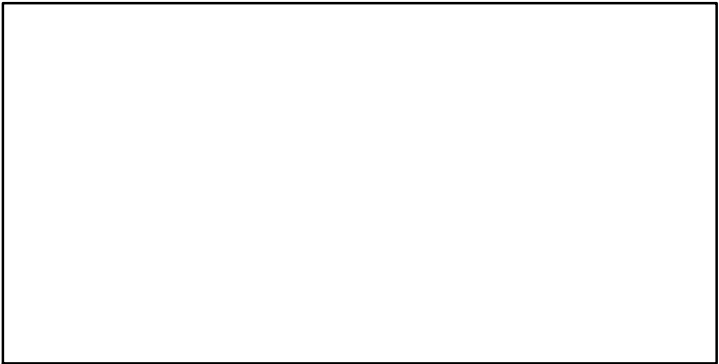
◆ Start Year ◆ End Year * No Data

Sole West Africa Subgroup 3 [SOLEWASG3]

TB-index (1991–2007–CHING)



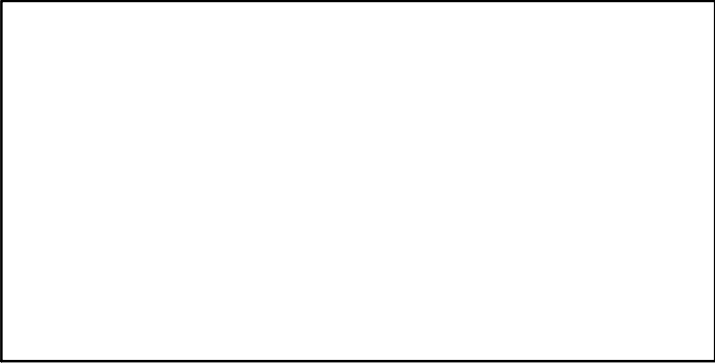
SSB*



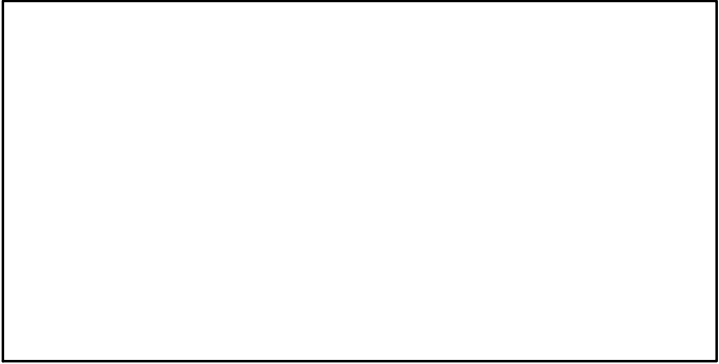
F*



ER*



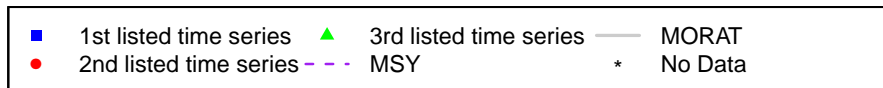
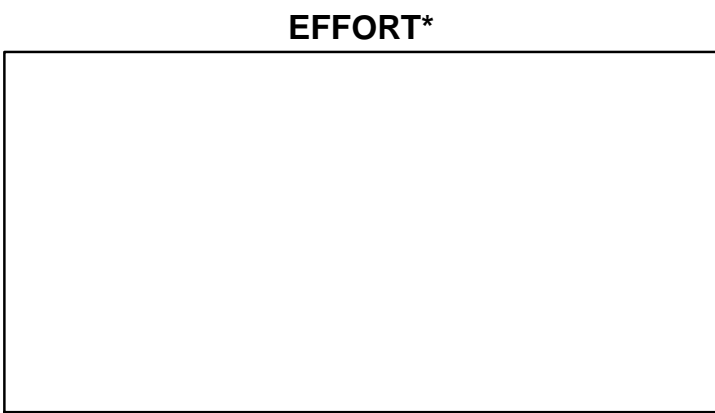
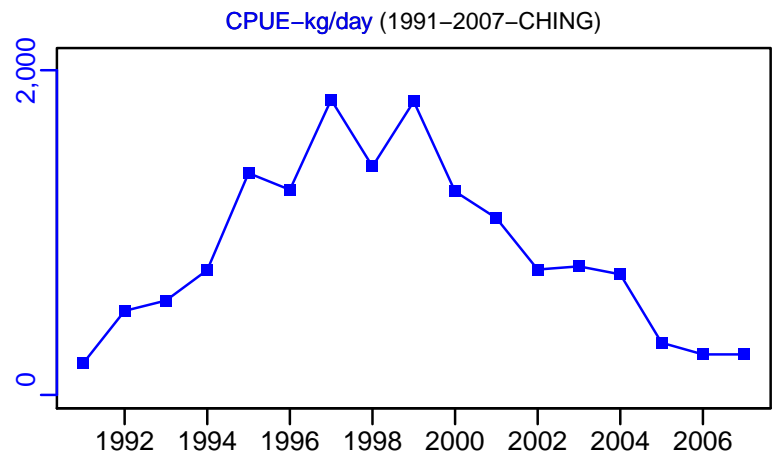
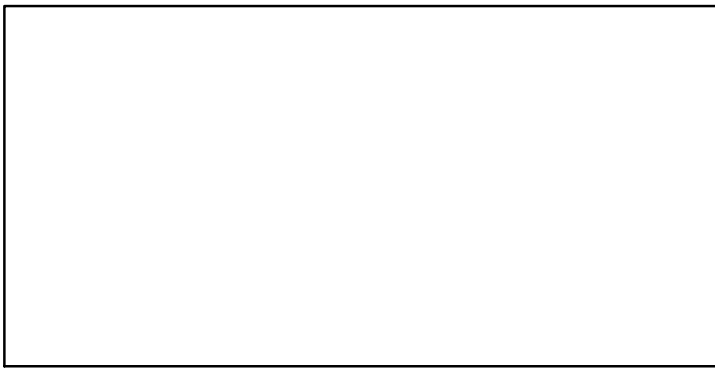
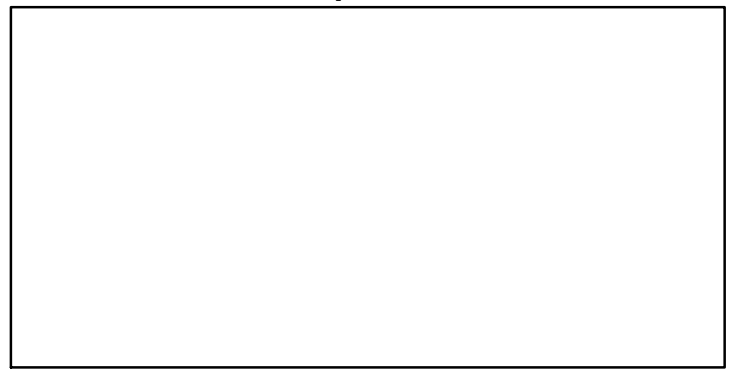
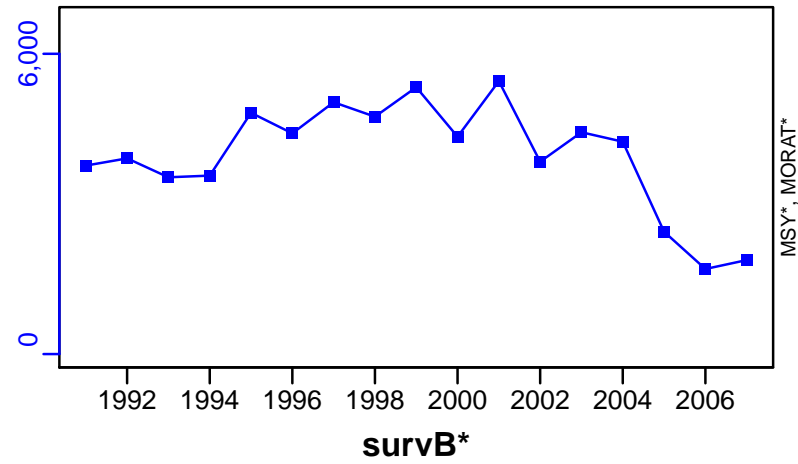
Recruits*



Sole West Africa Subgroup 3 [SOLEWASG3]

TC-MT, TL*, RecC* (1991-2007-CHING)

TAC*, Cpair*, Cadv*



Southern Pink Shrimp West Africa [SPSHRIMPWA]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Farfantepenaeus notialis |
| Current Assess ID | FAO-DRSS-SPSHRIMPWA-1990-2007-CHING |
| Area | West Africa |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

| Time Series | | | | | |
|-------------|-------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2007 | 2250 | | |
| 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*



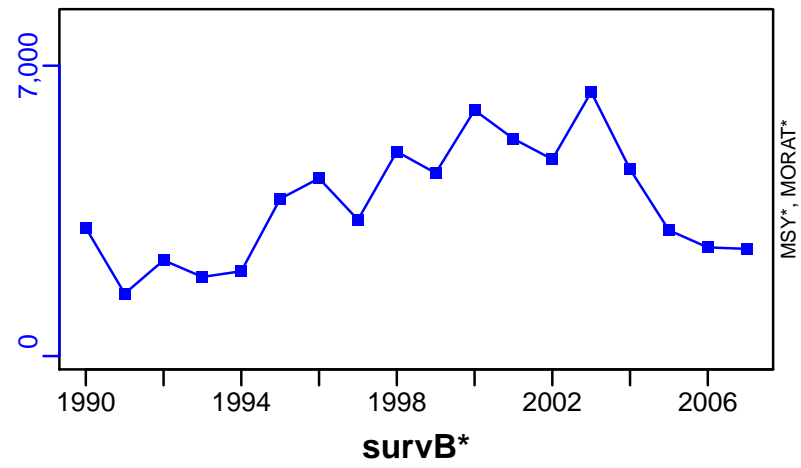
Recruits*



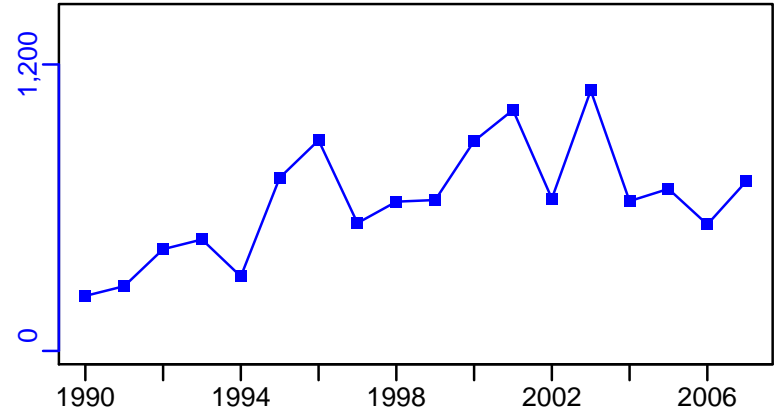
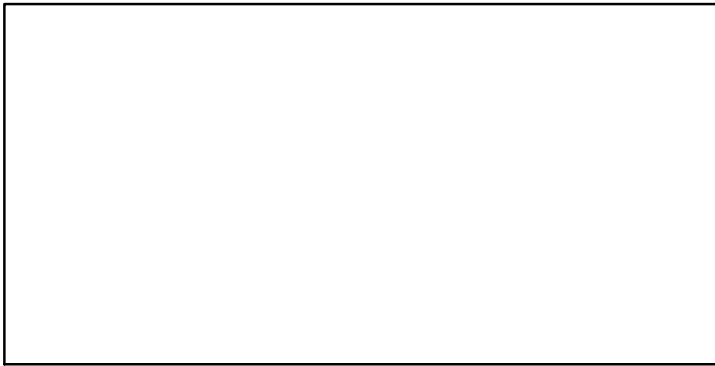
Southern Pink Shrimp West Africa [SPSHRIMPWA]

TC-MT, TL*, RecC* (1990-2007-CHING)

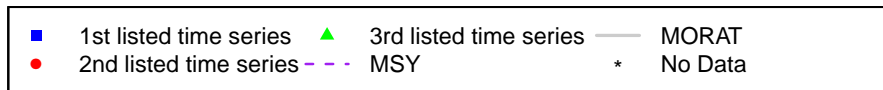
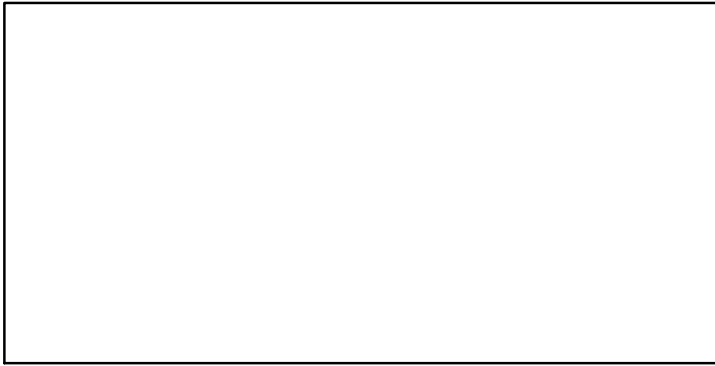
TAC*, Cpair*, Cadv*



CPUE-kg/day (1990-2007-CHING)



EFFORT*



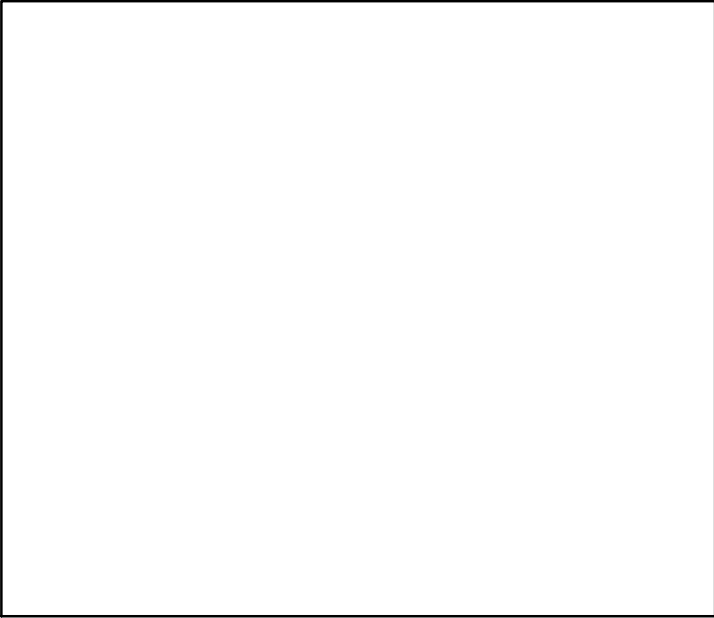
Threadfin West Africa Subgroup 1 [THREADWASG1]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Galeoides decadactylus |
| Current Assess ID | FAO-DRSS-THREADWASG1-1994-2007-CHING |
| Area | West Africa Subgroup 1 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

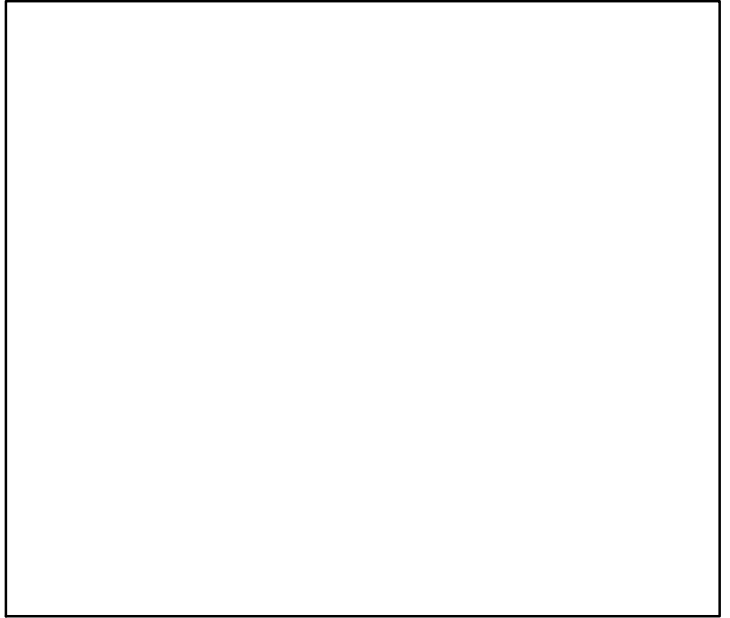
| Reference Points | | | |
|------------------|----|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | -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

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

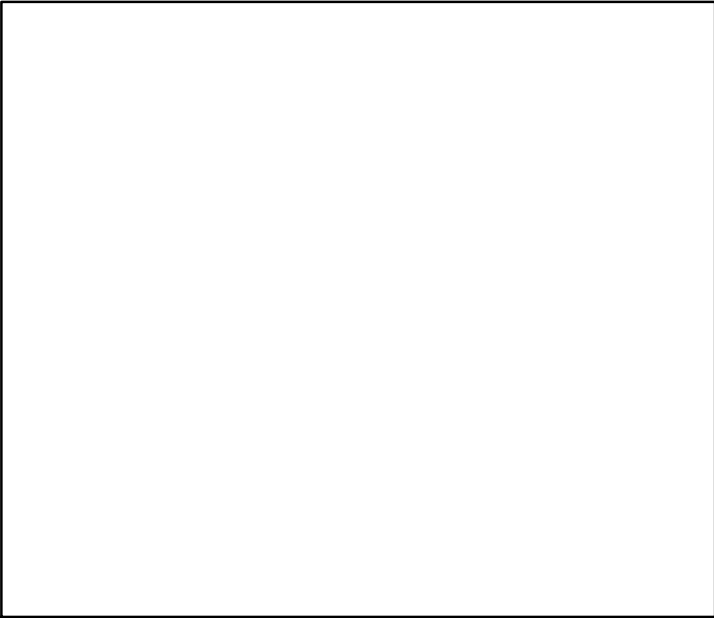
Kobe MSY*



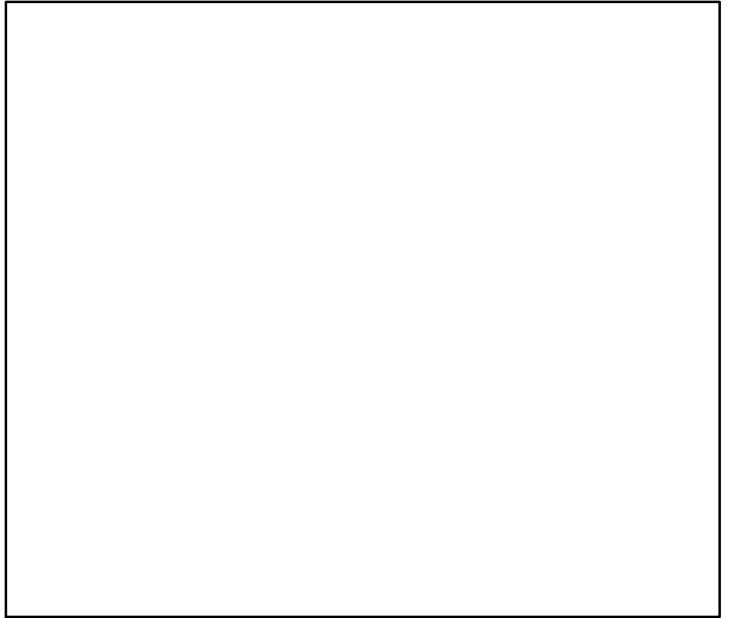
Kobe MGT*



Spawner Recruit*



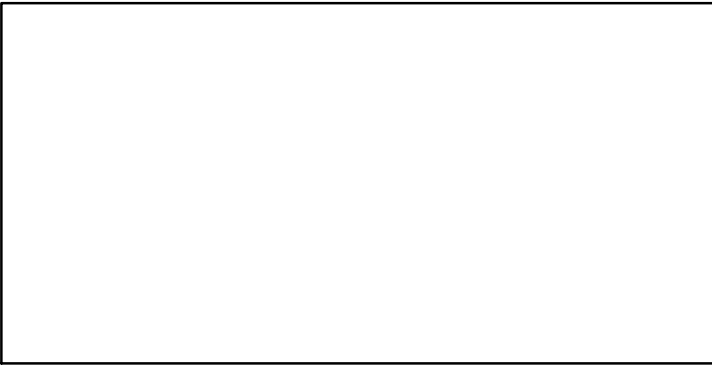
Production*



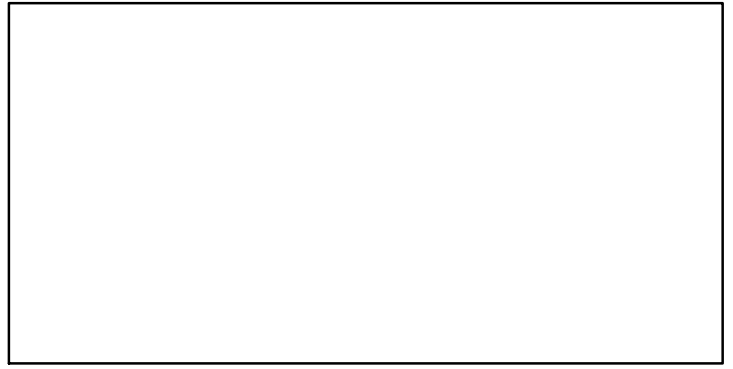
◆ Start Year ◆ End Year * No Data

Threadfin West Africa Subgroup 1 [THREADWASG1]

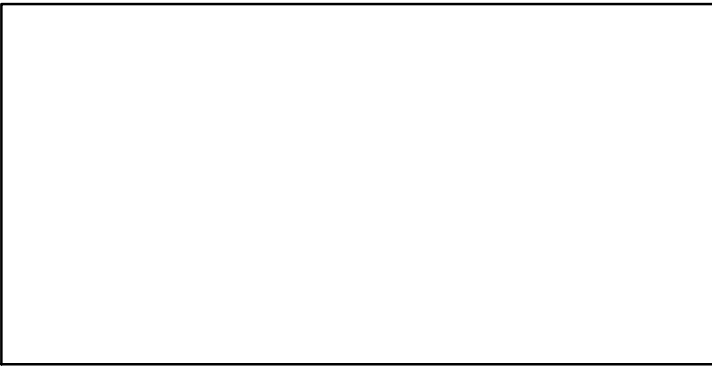
TB*



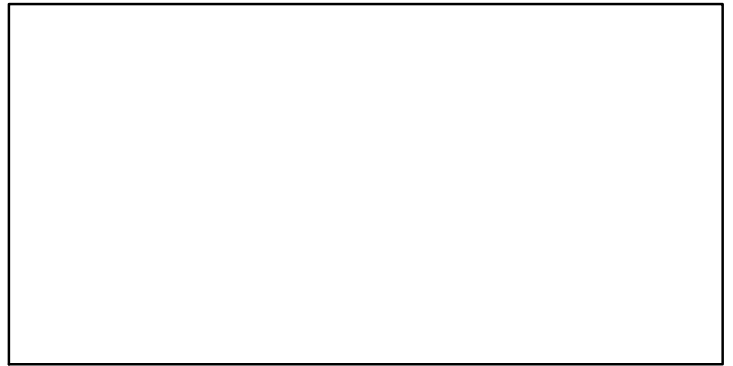
SSB*



TN *



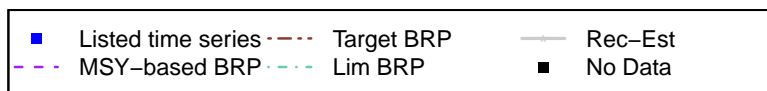
F*



ER*



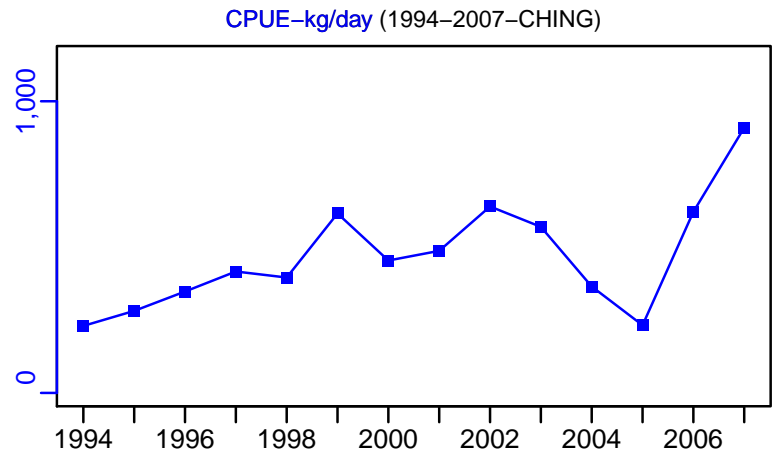
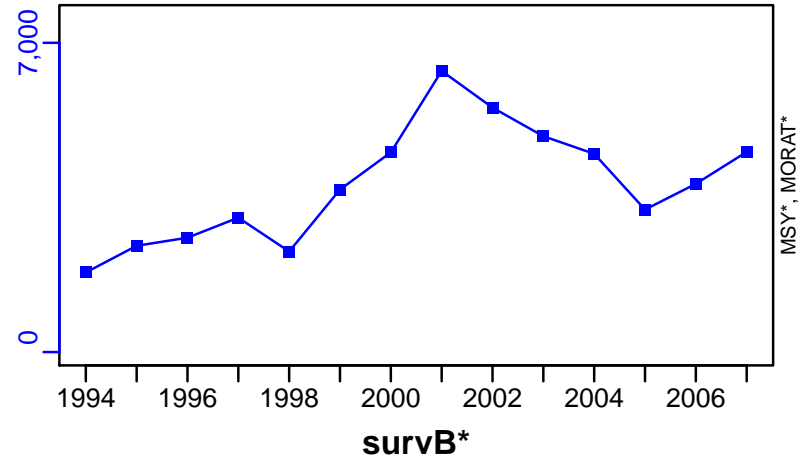
Recruits*



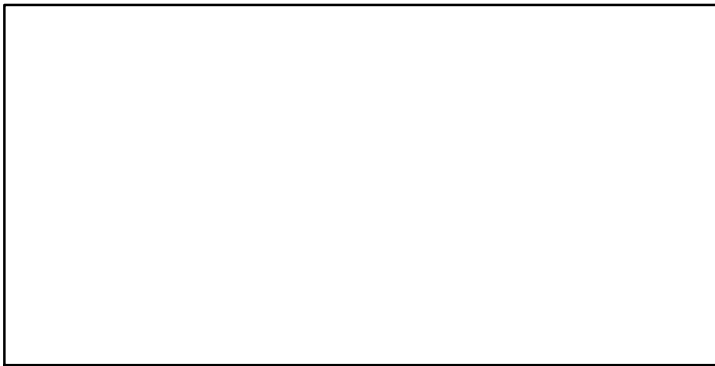
Threadfin West Africa Subgroup 1 [THREADWASG1]

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

TAC*, Cpair*, Cadv*



EFFORT*



Threadfin West Africa Subgroup 2 [THREADWASG2]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Galeoides decadactylus |
| Current Assess ID | FAO-DRSS-THREADWASG2-1990-2006-CHING |
| Area | West Africa Subgroup 2 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2006 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

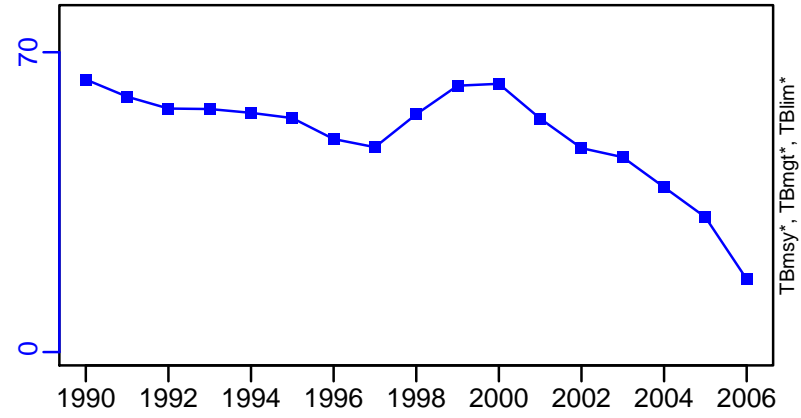


◆ Start Year ◆ End Year * No Data

Threadfin West Africa Subgroup 2 [THREADWASG2]

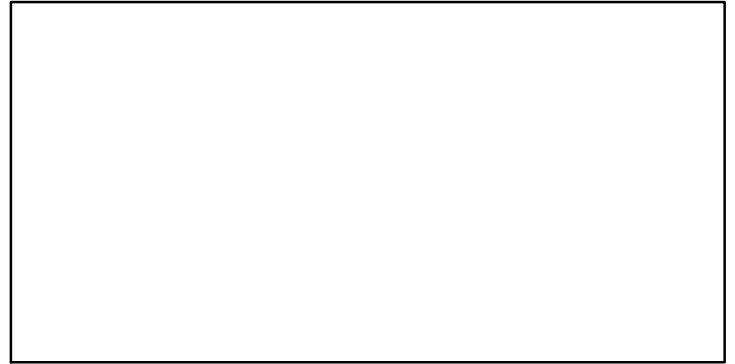
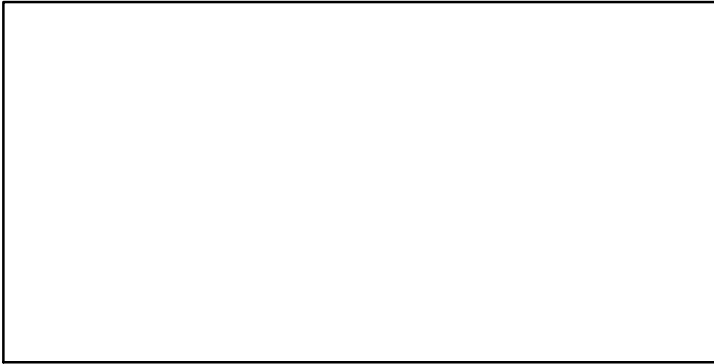
TB-index (1990–2006–CHING)

SSB*



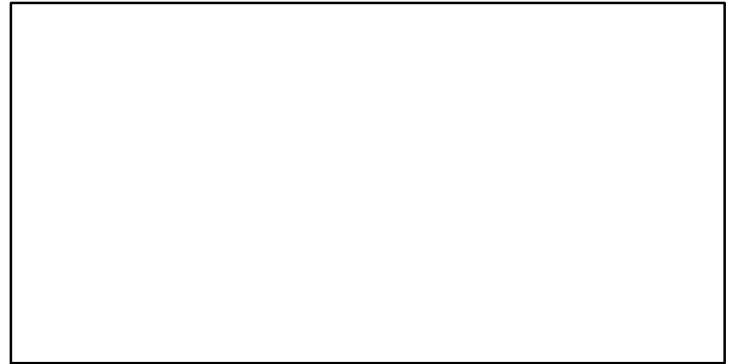
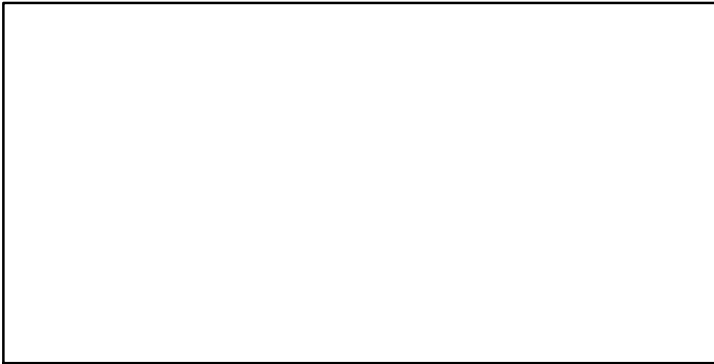
TN *

F*



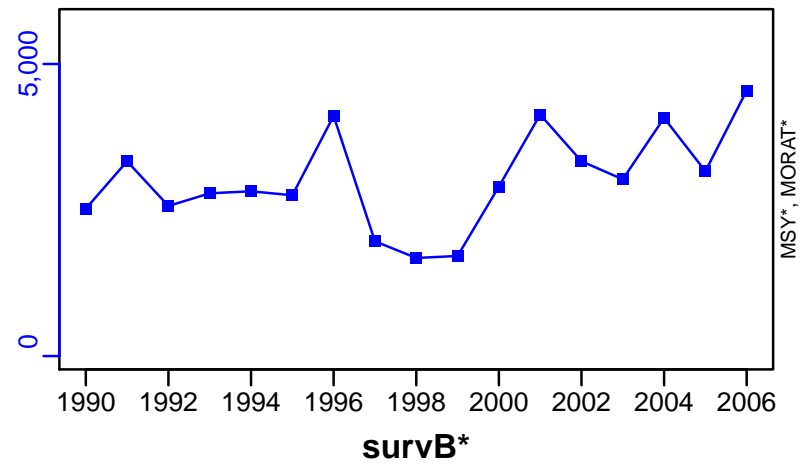
ER*

Recruits*



Threadfin West Africa Subgroup 2 [THREADWASG2]

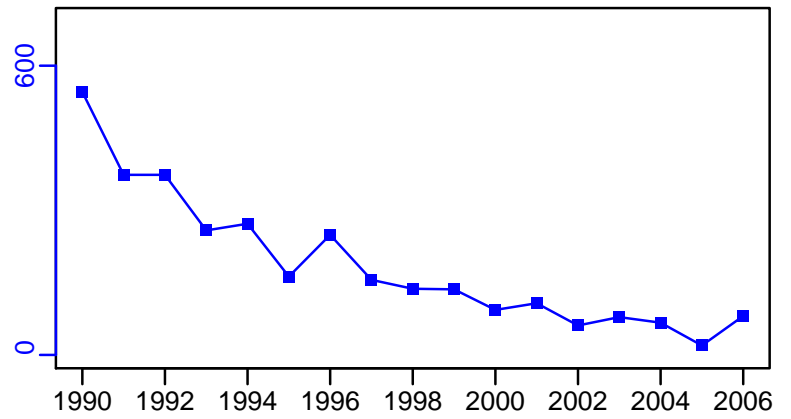
TC-MT, TL*, RecC* (1990-2006-CHING)



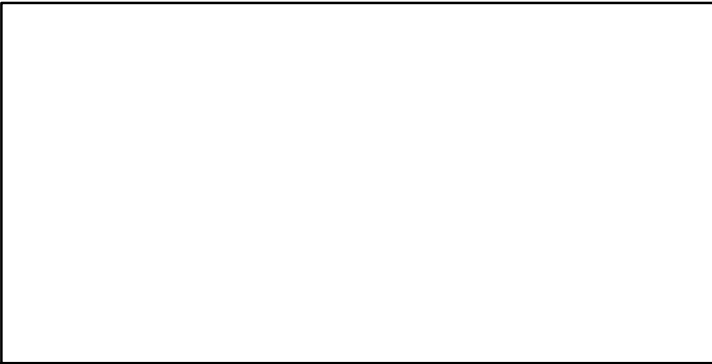
TAC*, Cpair*, Cadv*



CPUE-kg/day (1990-2006-CHING)



EFFORT*



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

Threadfin West Africa Subgroup 3 [THREADWASG3]

| Metadata | |
|-----------------------------|--|
| Scientific Name | Galeoides decadactylus |
| Current Assess ID | FAO-DRSS-THREADWASG3-1990-2007-CHING |
| Area | West Africa Subgroup 3 |
| Management Authority | Food and Agriculture Organization of the United Nations |
| Assessor | FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South |
| Asmts in RAM | 2007 |

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



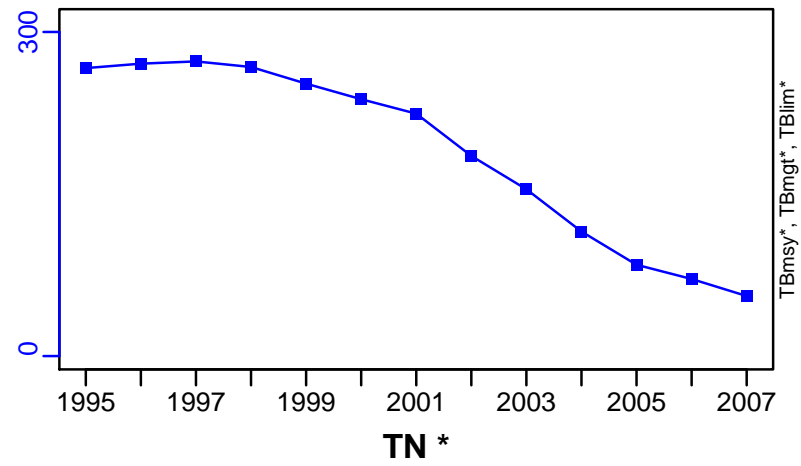
Production*



◆ Start Year ◆ End Year * No Data

Threadfin West Africa Subgroup 3 [THREADWASG3]

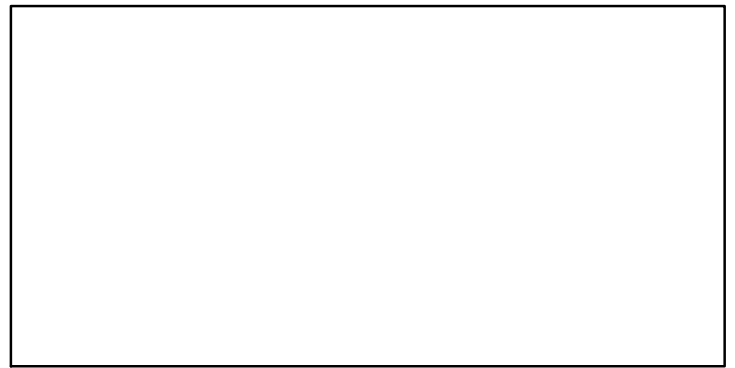
TB-index (1990–2007–CHING)



SSB*



F*



ER*



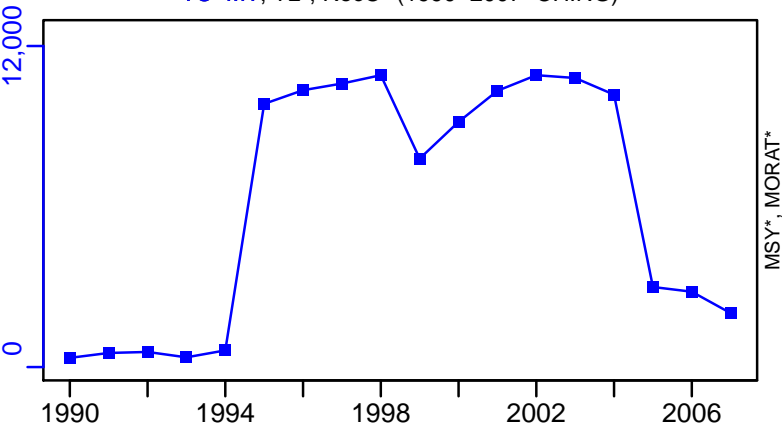
Recruits*



Threadfin West Africa Subgroup 3 [THREADWASG3]

TC-MT, TL*, RecC* (1990-2007-CHING)

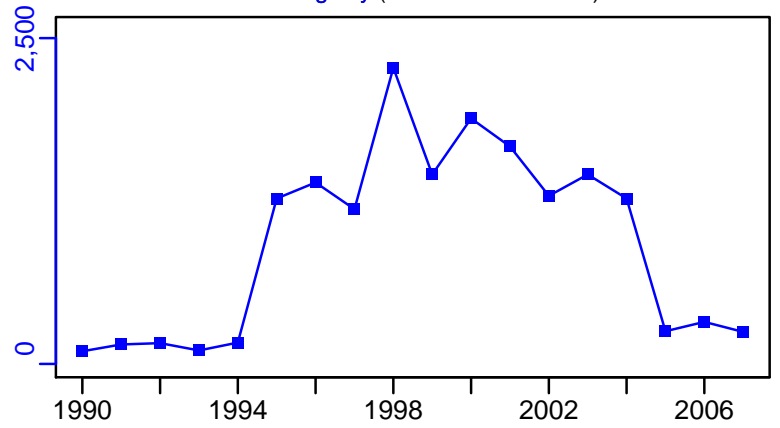
TAC*, Cpair*, Cadv*



survB*



CPUE-kg/day (1990-2007-CHING)



EFFORT*

