

West Africa Stocks

v4.44 (Dec-21-2018)

Not present Present Preferred

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

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	0.84	-	-
ER	ER-calc-ratio	2010	0.839	-	-
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]

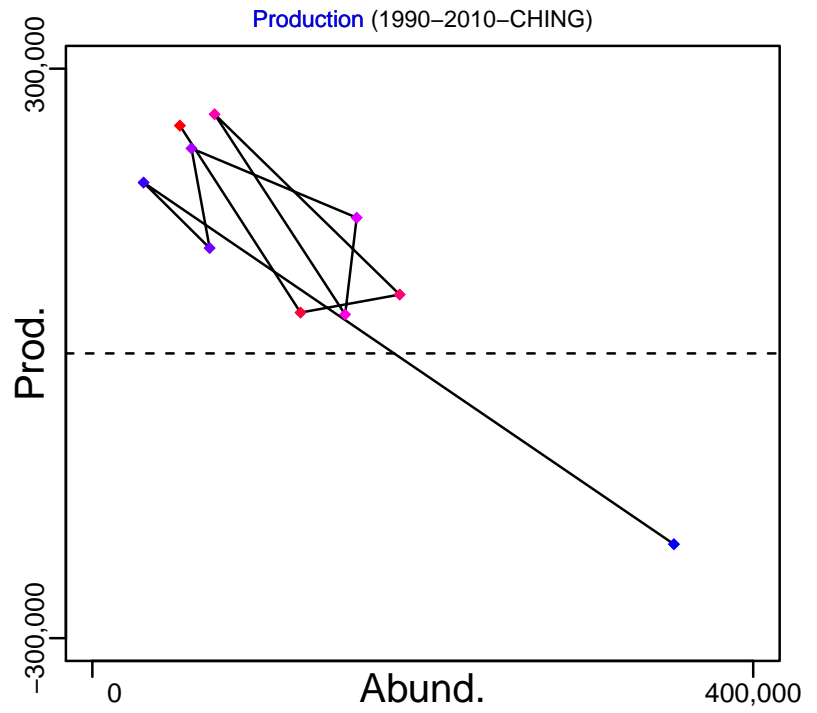
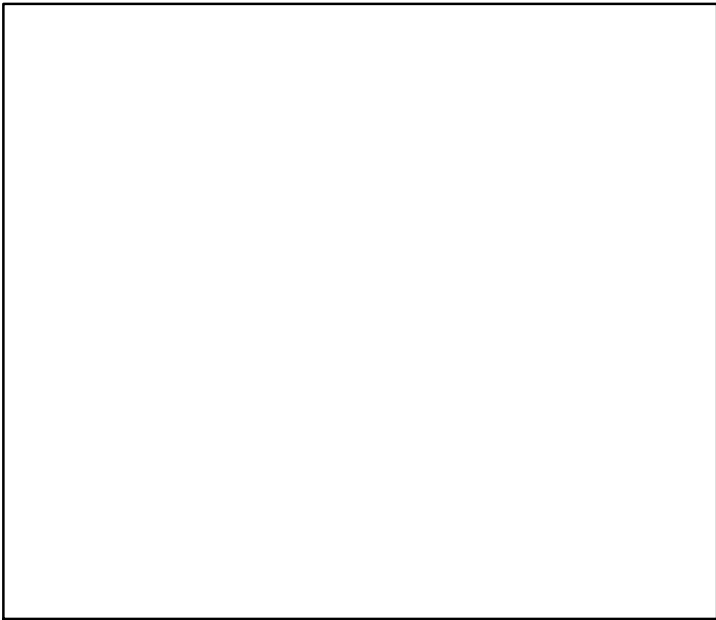
Kobe MSY*



Kobe MGT*



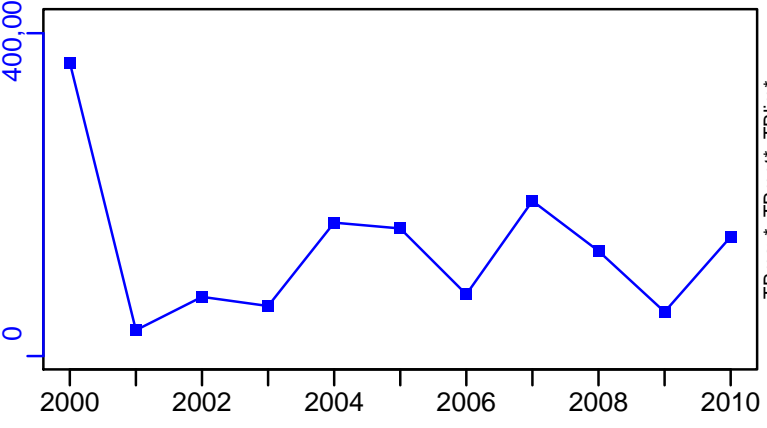
Spawner Recruit*



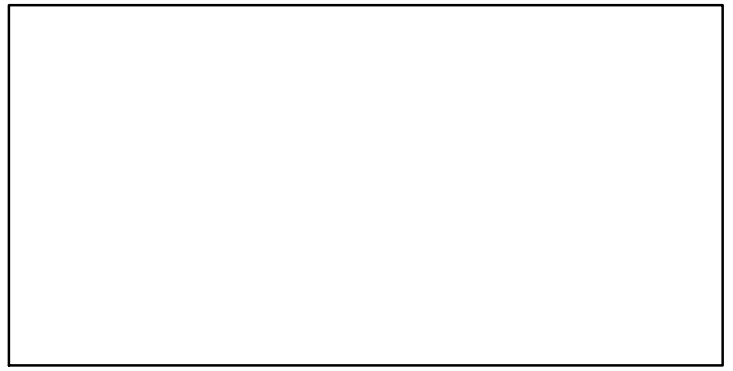
◆ Start Year ◆ End Year * No Data

Anchovy West Africa [ANCHOWA]

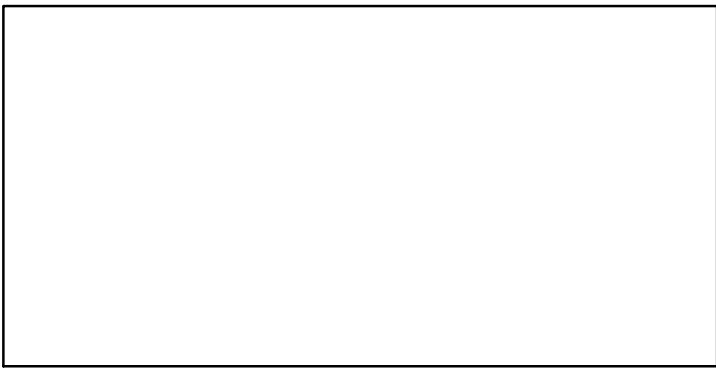
TB-MT (1990-2010-CHING)



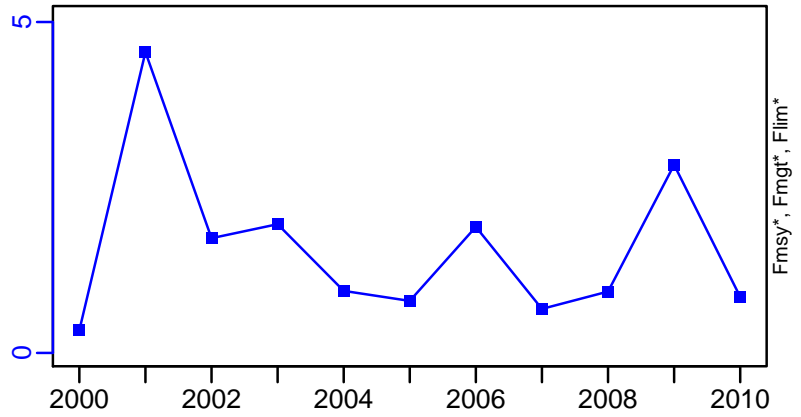
SSB*



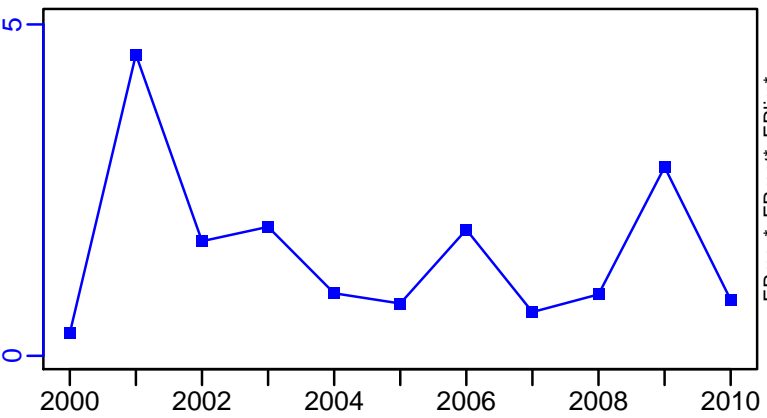
TN *



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



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



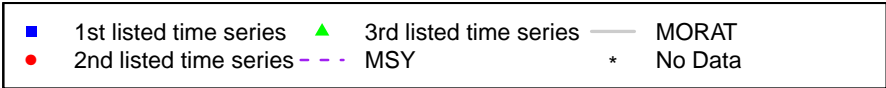
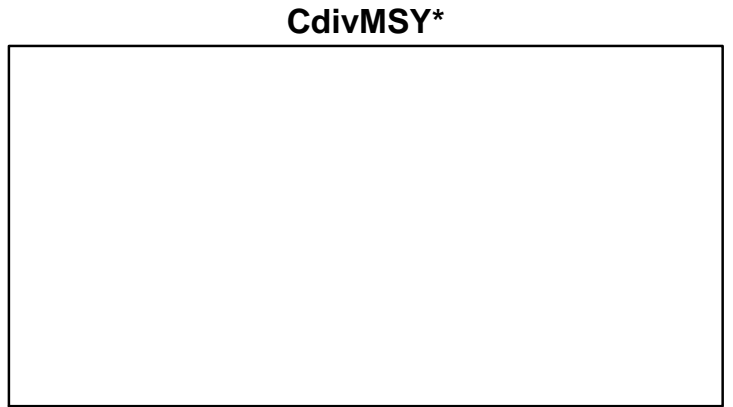
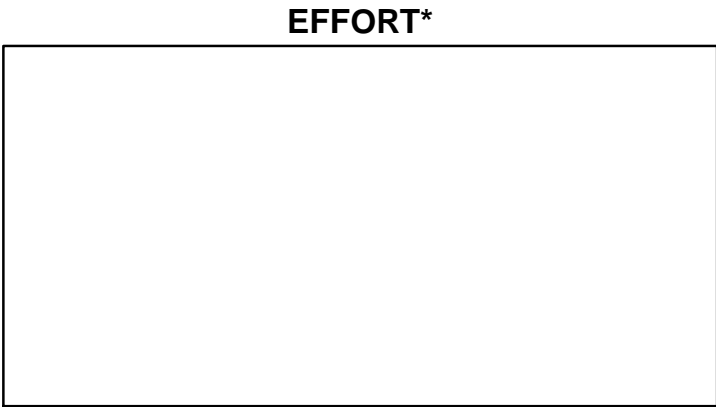
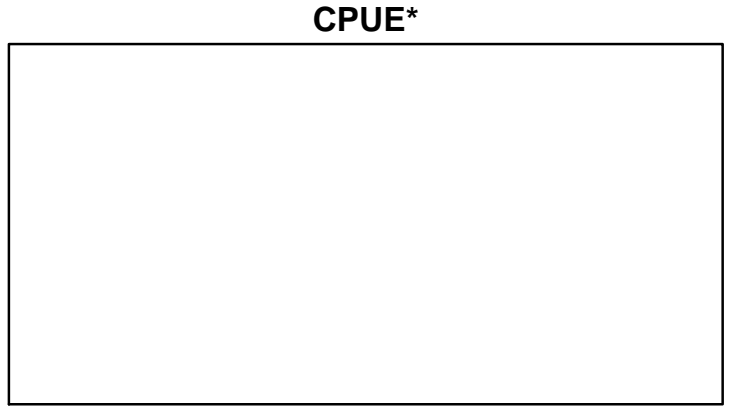
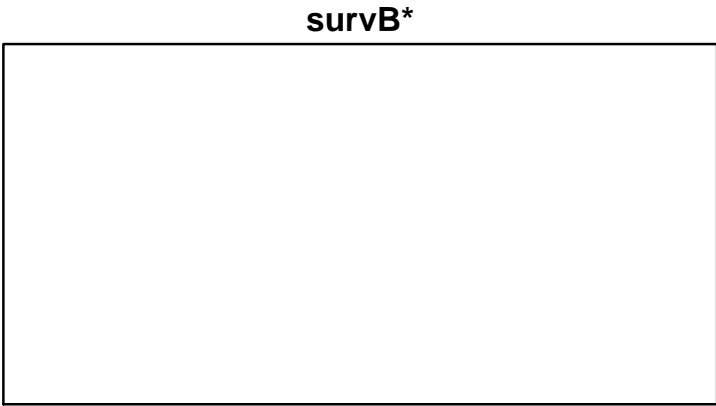
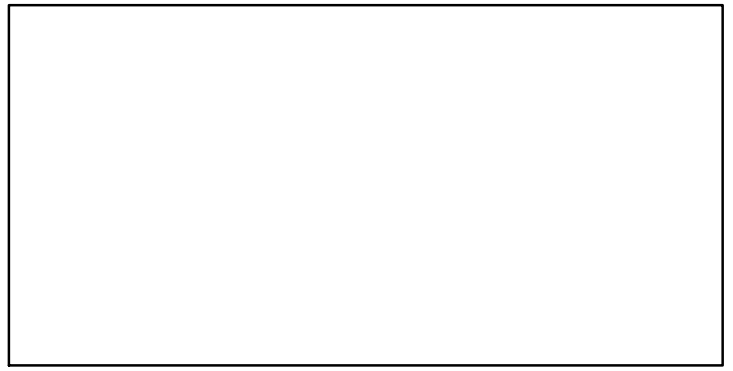
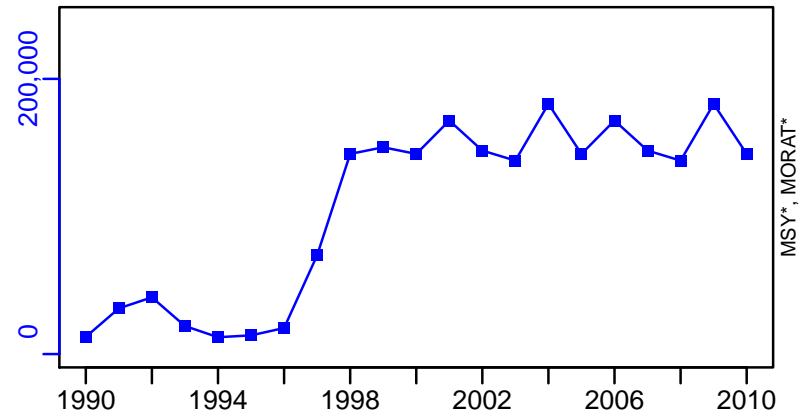
Recruits*



Anchovy West Africa [ANCHOWA]

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

TAC*, Cpair*, Cadv*



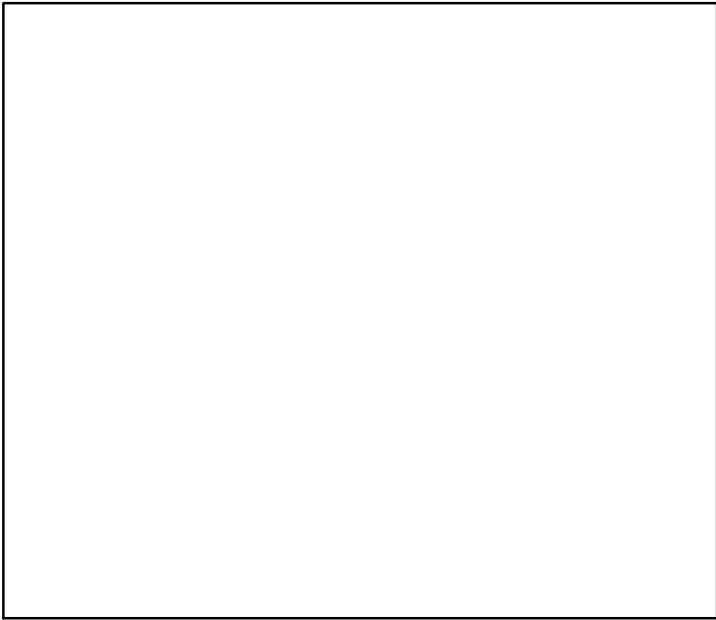
Bobo croaker West Africa Subgroup 1 [BCROAKWASG1]

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

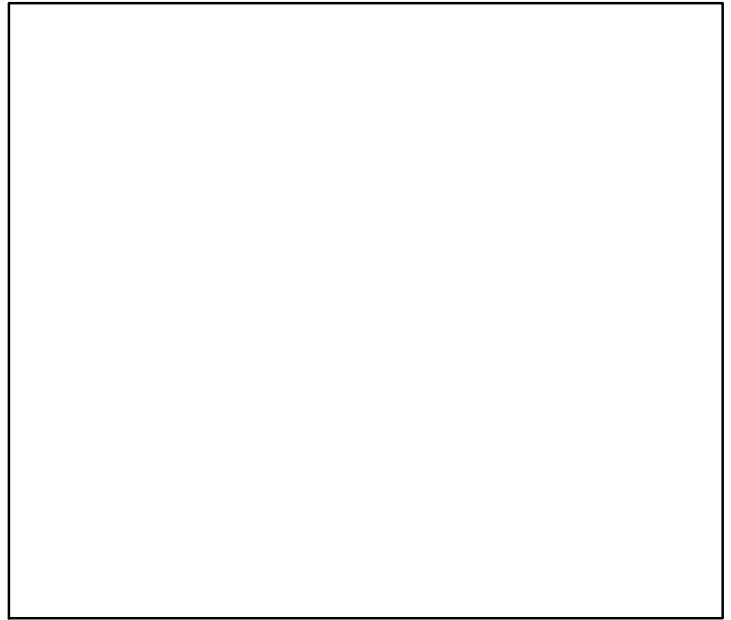
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

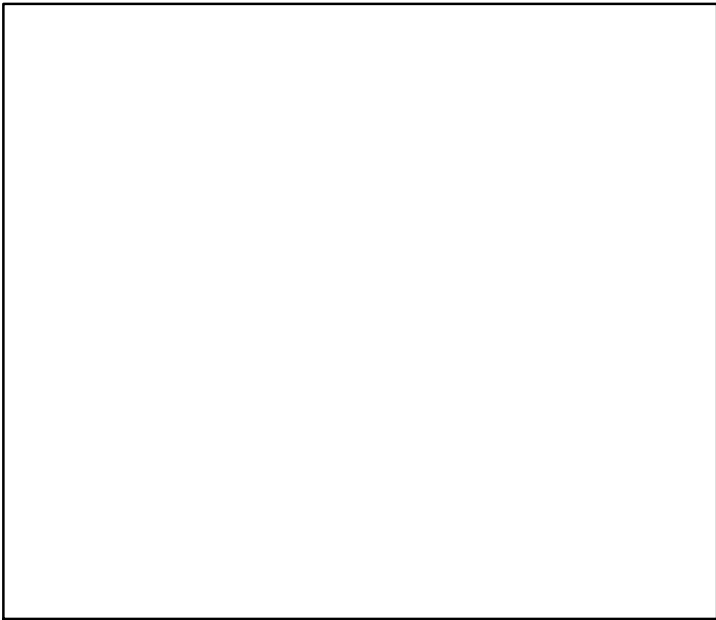
Kobe MSY*



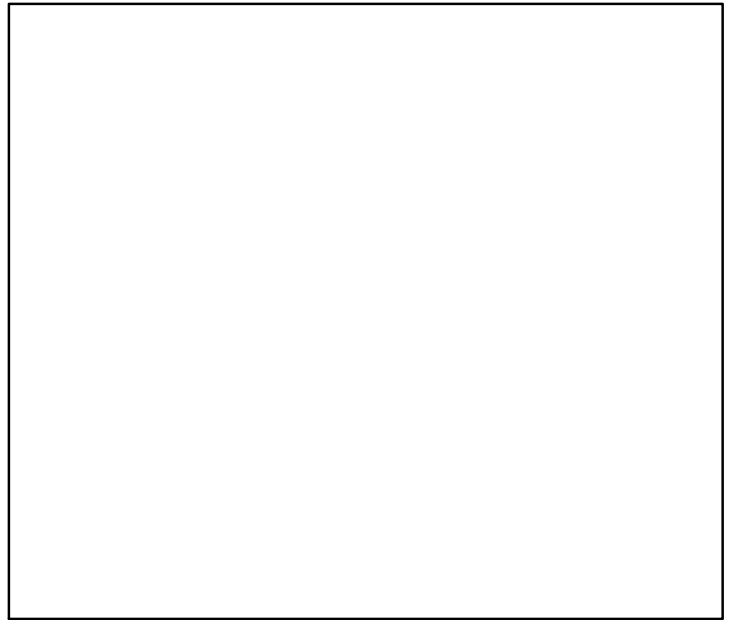
Kobe MGT*



Spawner Recruit*



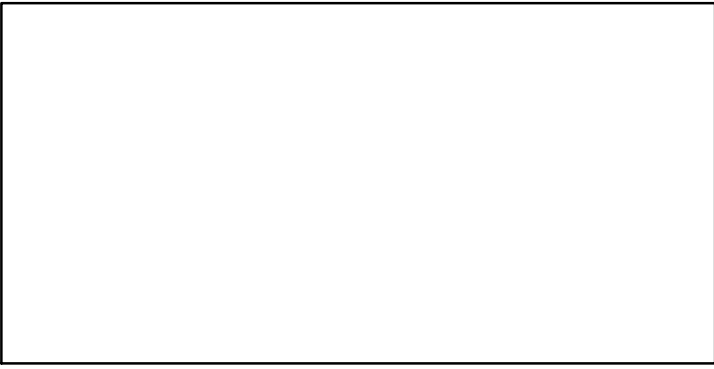
Production*



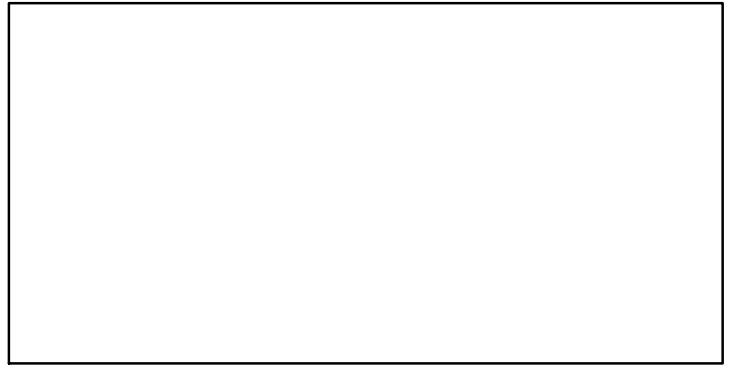
◆ Start Year ◆ End Year * No Data

Bobo croaker West Africa Subgroup 1 [BCROAKWASG1]

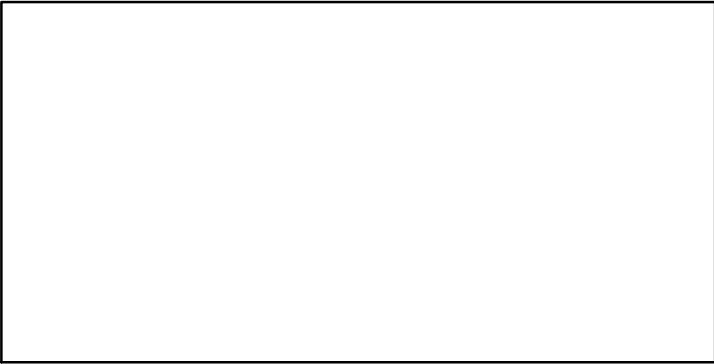
TB*



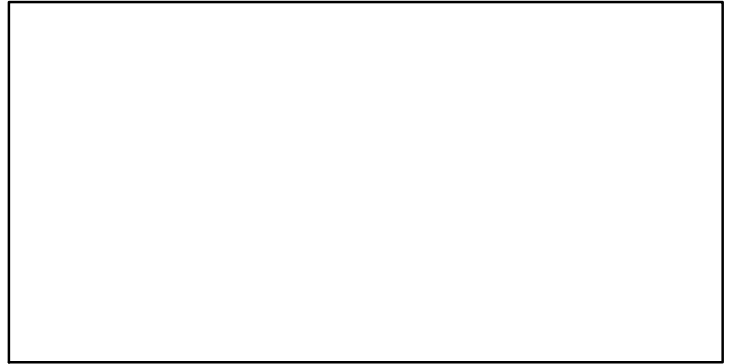
SSB*



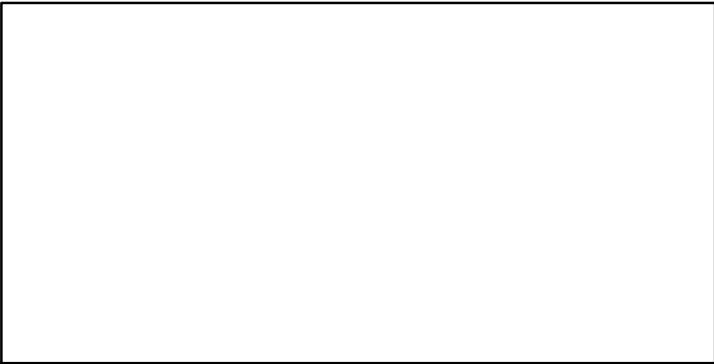
TN *



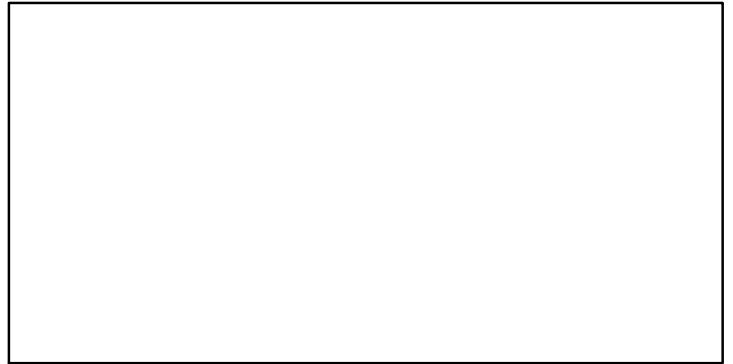
F*



ER*



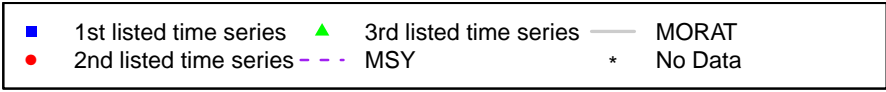
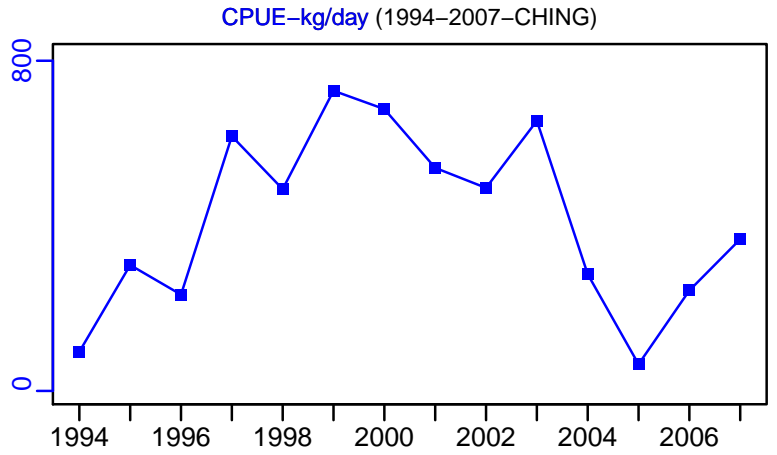
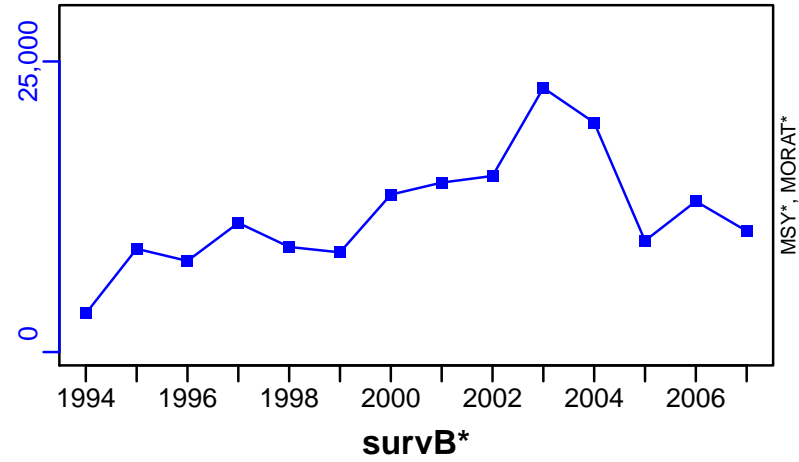
Recruits*



Bobo croaker West Africa Subgroup 1 [BCROAKWASG1]

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

TAC*, Cpair*, Cadv*



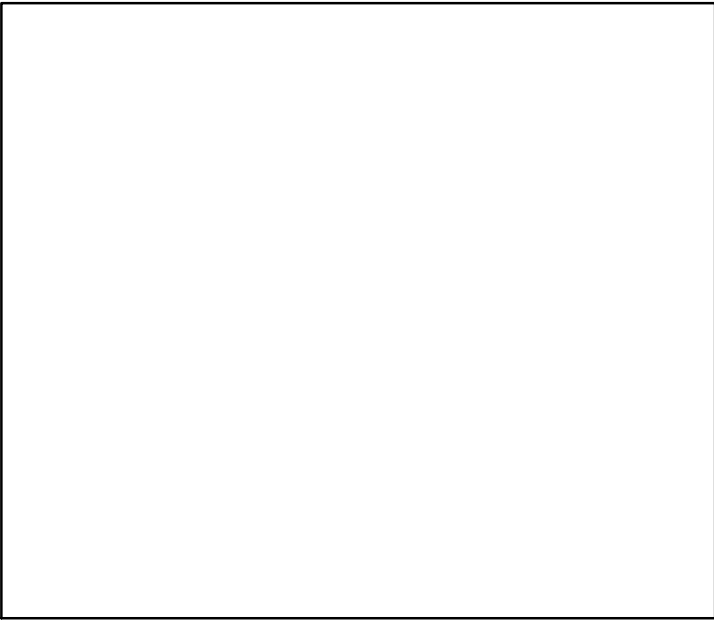
Bigeye Grunt West Africa Subgroup 2 [BGRUNTWASG2]

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

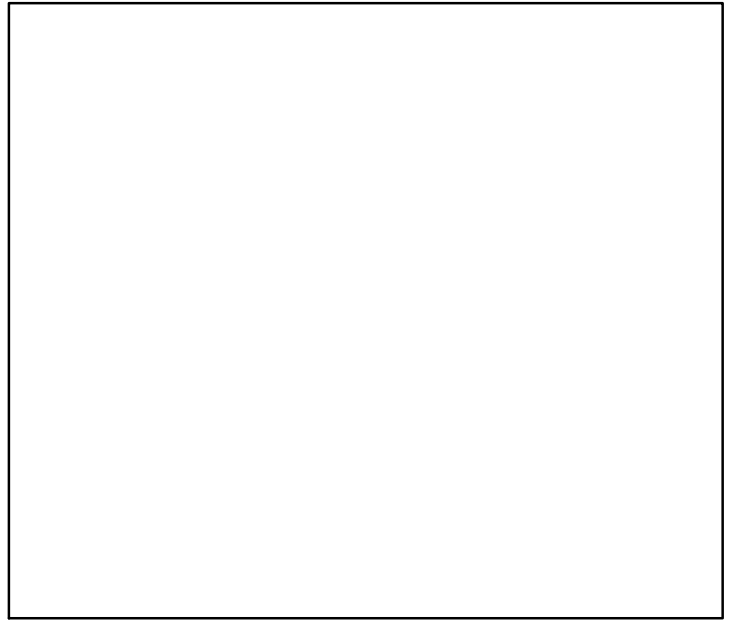
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

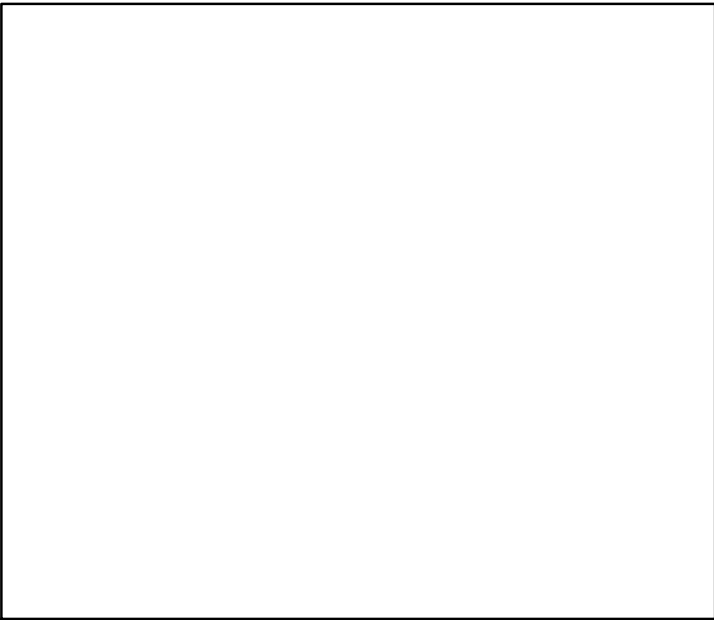
Kobe MSY*



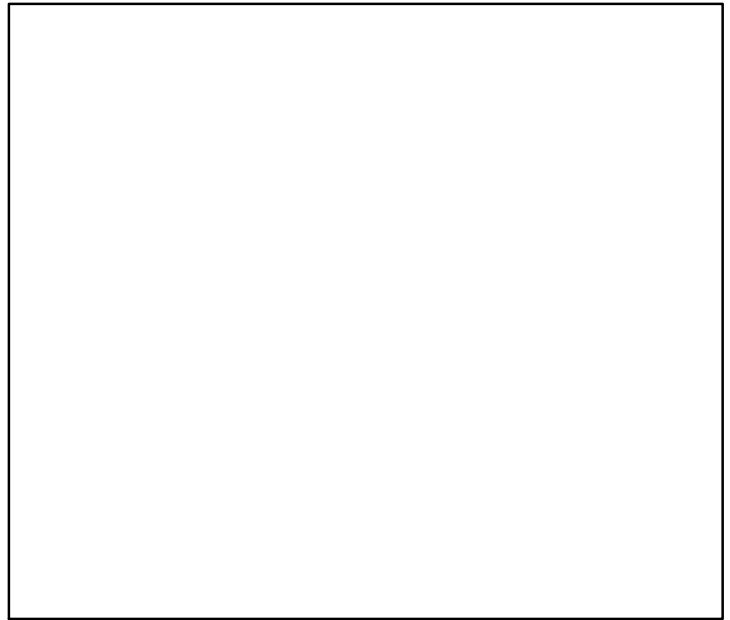
Kobe MGT*



Spawner Recruit*



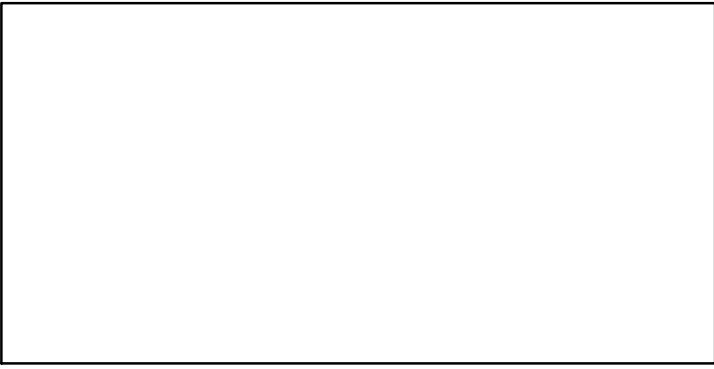
Production*



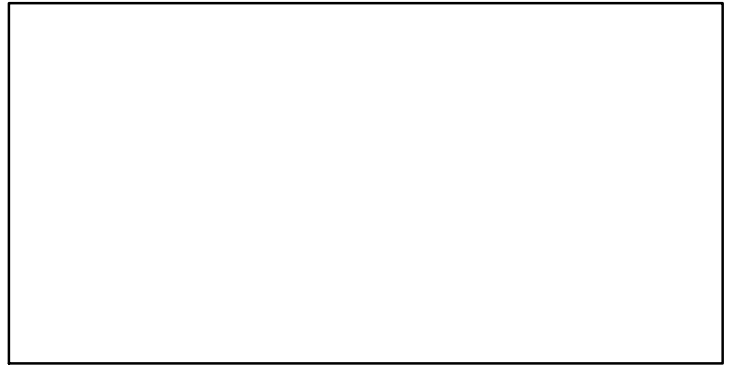
◆ Start Year ◆ End Year * No Data

Bigeye Grunt West Africa Subgroup 2 [BGRUNTWASG2]

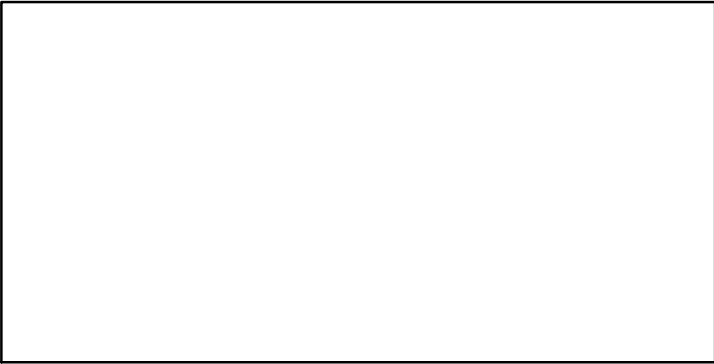
TB*



SSB*



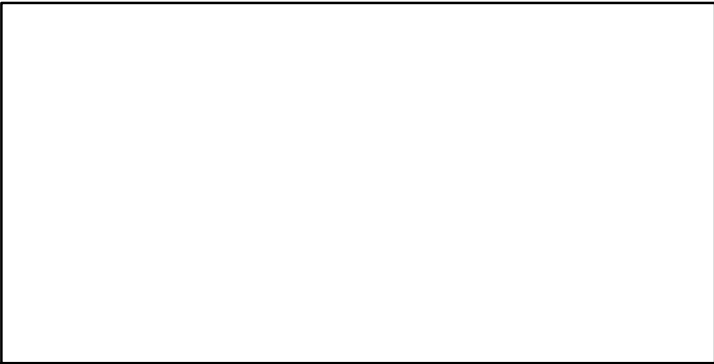
TN *



F*



ER*



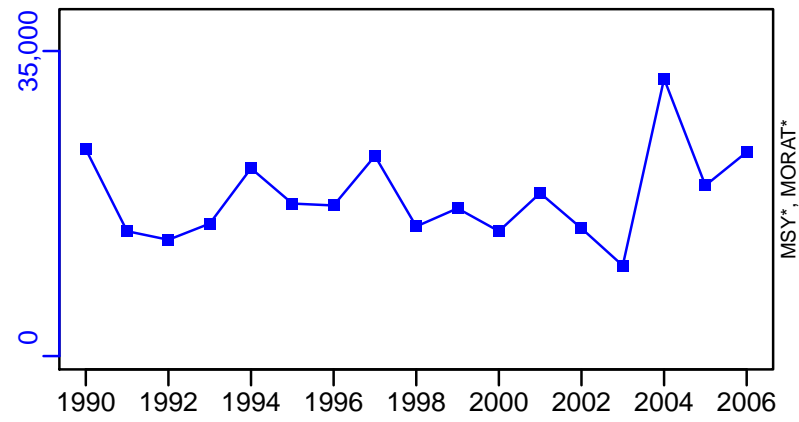
Recruits*



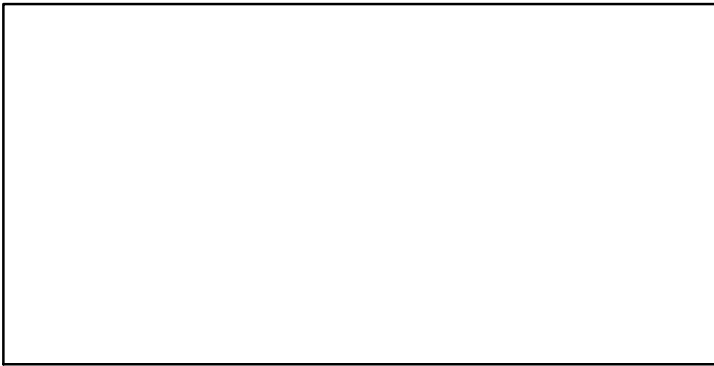
Bigeye Grunt West Africa Subgroup 2 [BGRUNTWASG2]

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

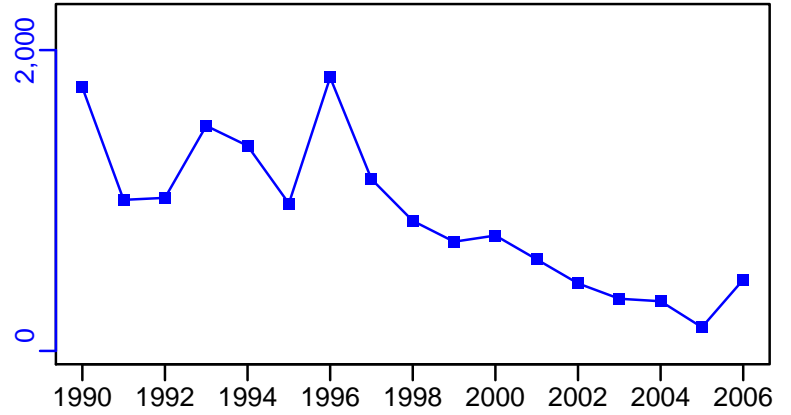
TAC*, Cpair*, Cadv*



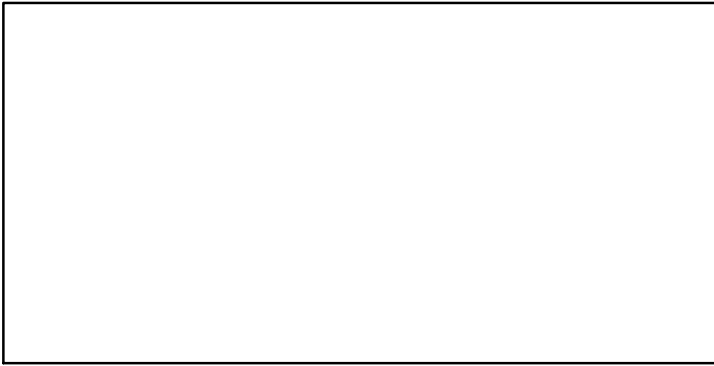
survB*



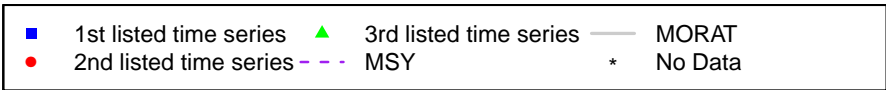
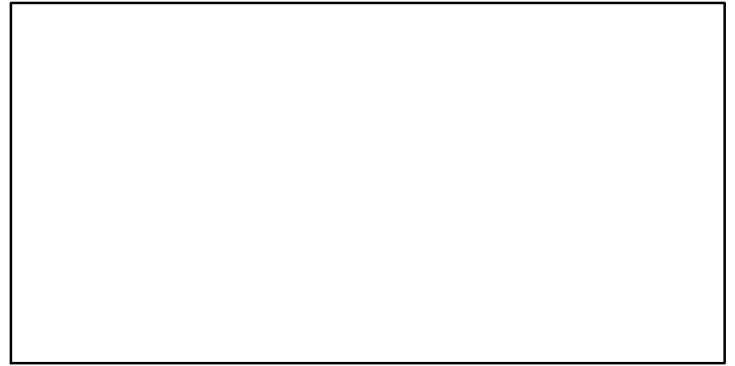
CPUE-kg/day (1990-2006-CHING)



EFFORT*



CdivMSY*



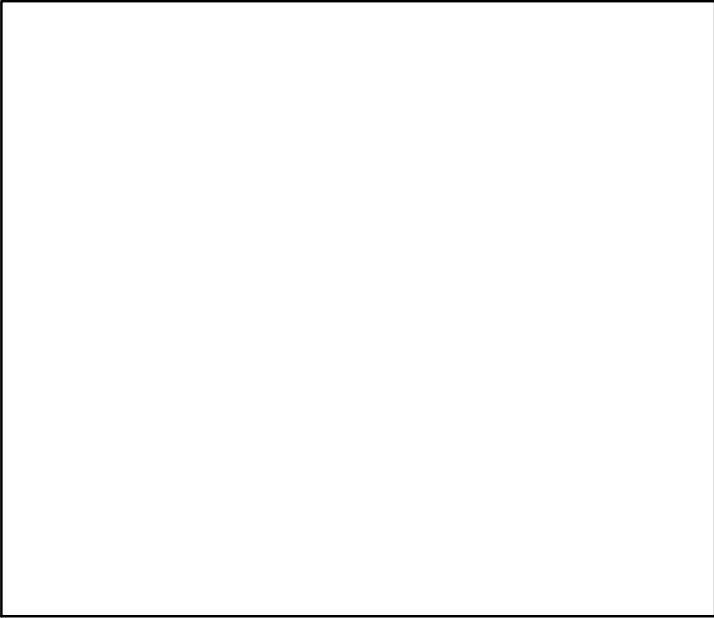
Bigeye Grunt West Africa Subgroup 3 [BGRUNTWASG3]

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

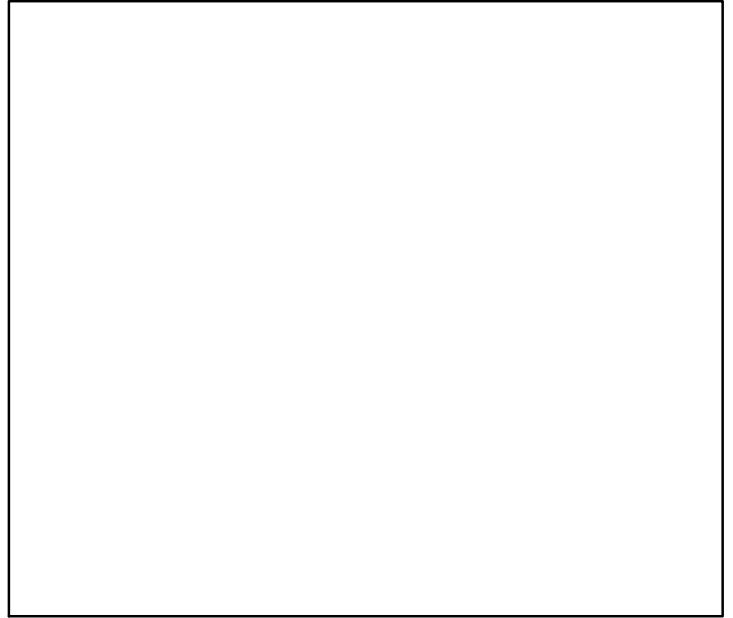
Reference Points			
Type	ID	Asmt Year	Value
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SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

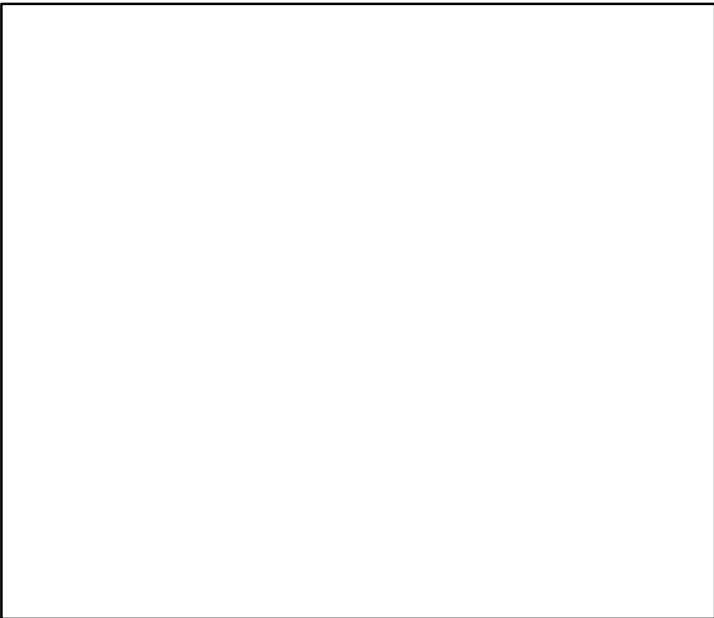
Kobe MSY*



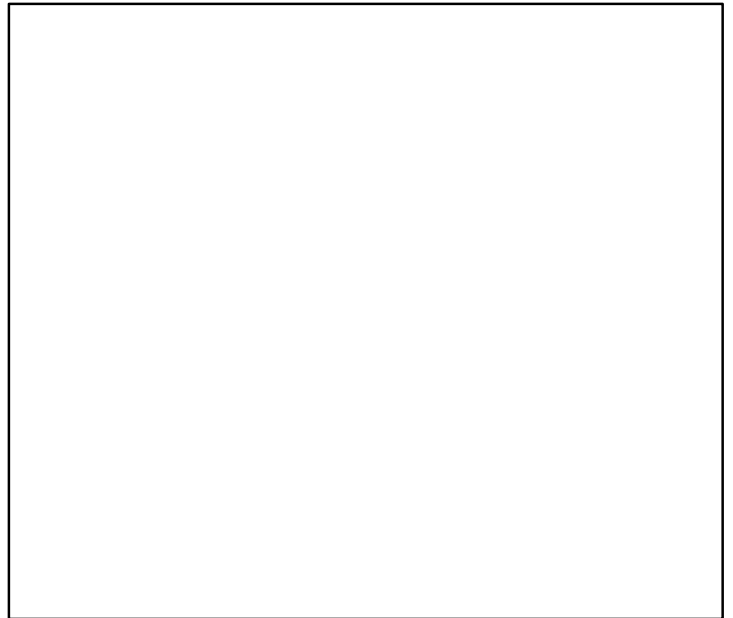
Kobe MGT*



Spawner Recruit*



Production*

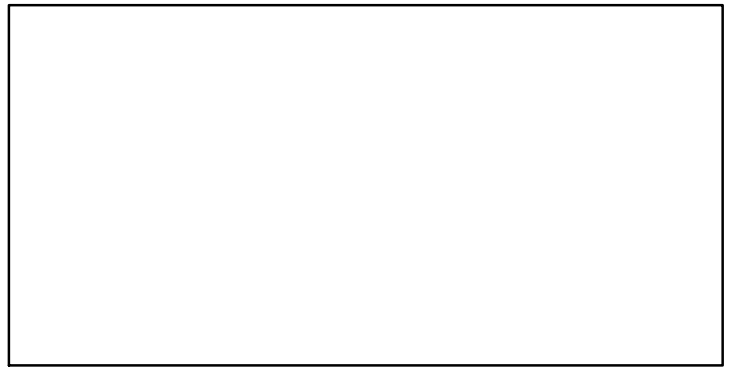
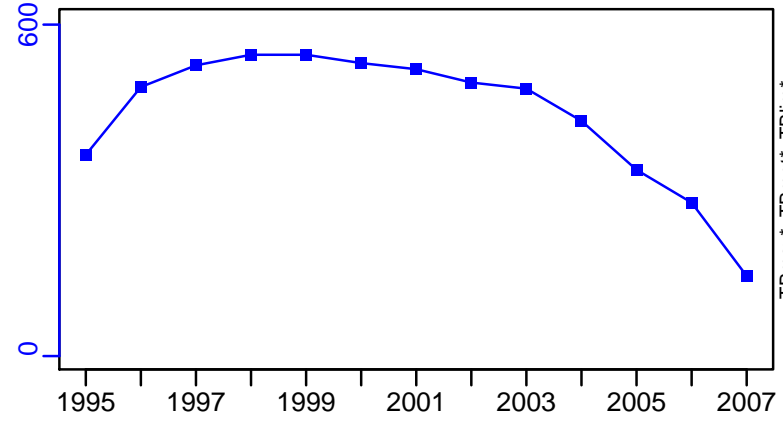


◆ Start Year ◆ End Year * No Data

Bigeye Grunt West Africa Subgroup 3 [BGRUNTWASG3]

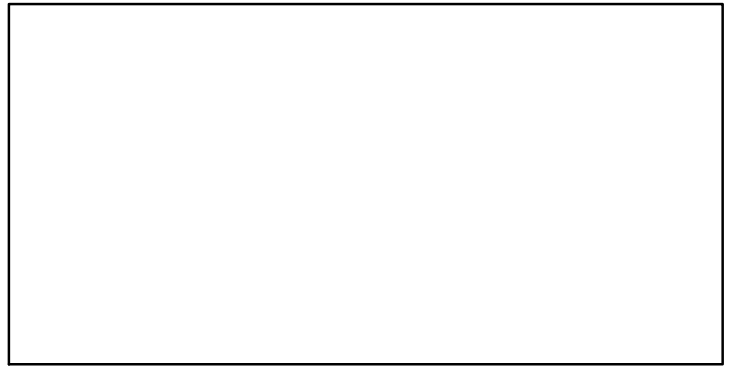
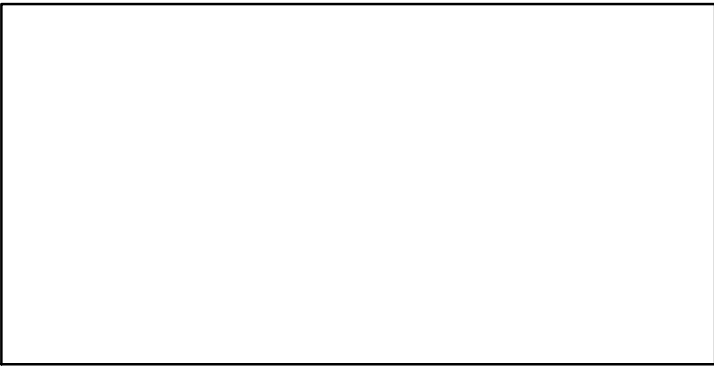
TB-index (1995-2007-CHING)

SSB*



TN *

F*



ER*

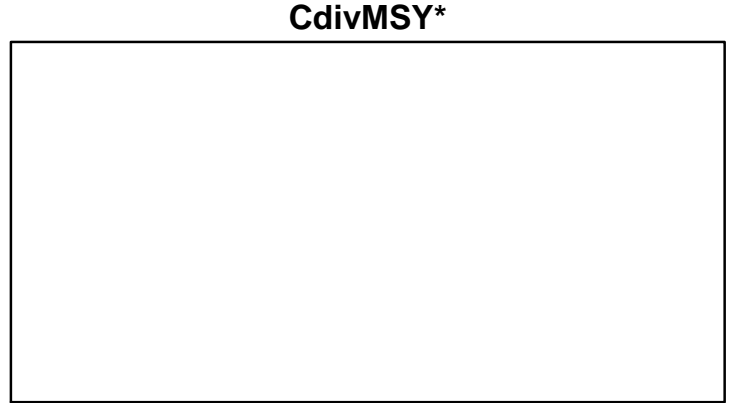
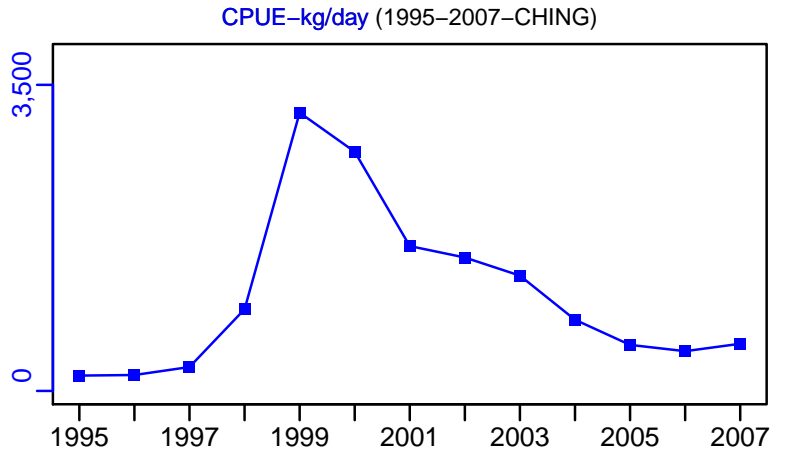
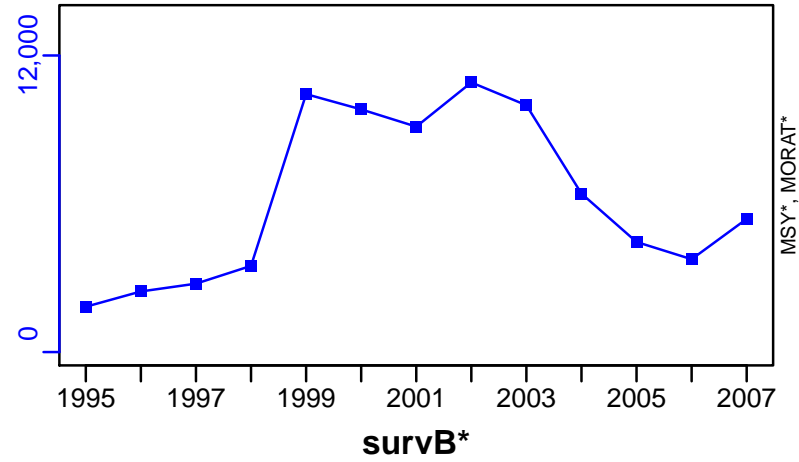
Recruits*



Bigeye Grunt West Africa Subgroup 3 [BGRUNTWASG3]

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

TAC*, Cpair*, Cadv*



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

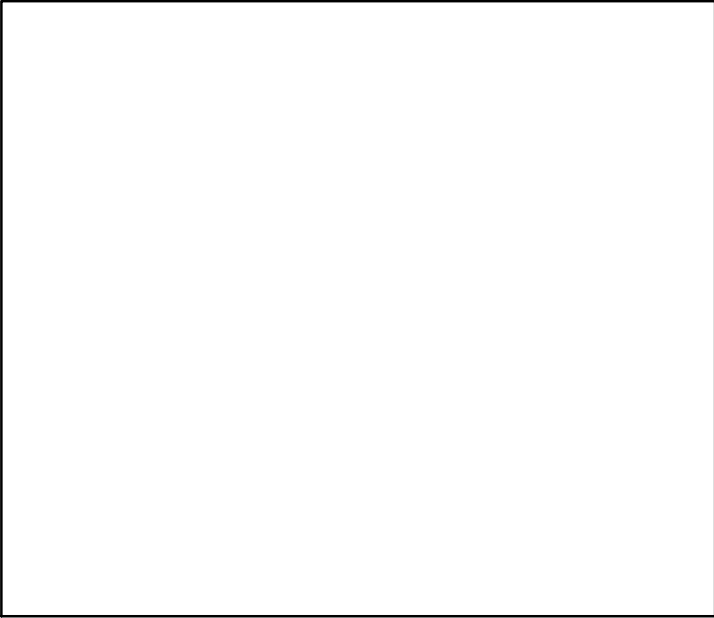
Benguela Hake West Africa Subgroup 3 [BHAKEWASG3]

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

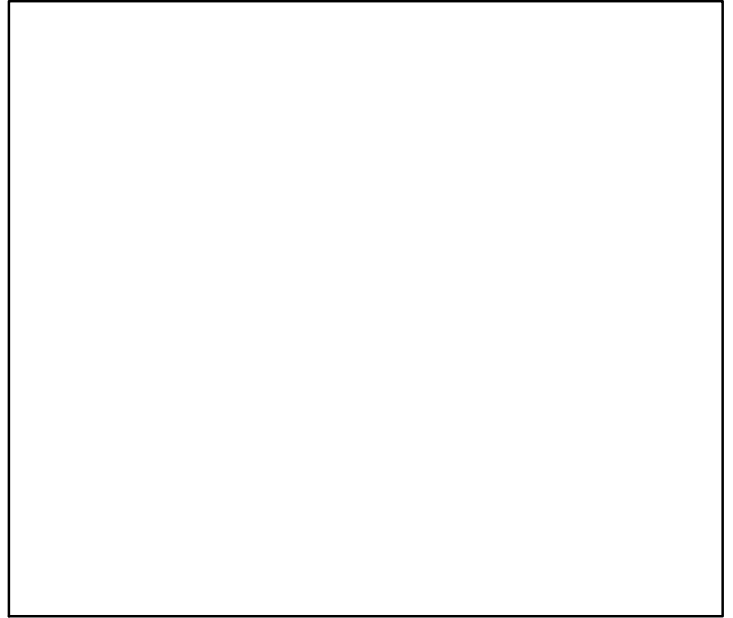
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

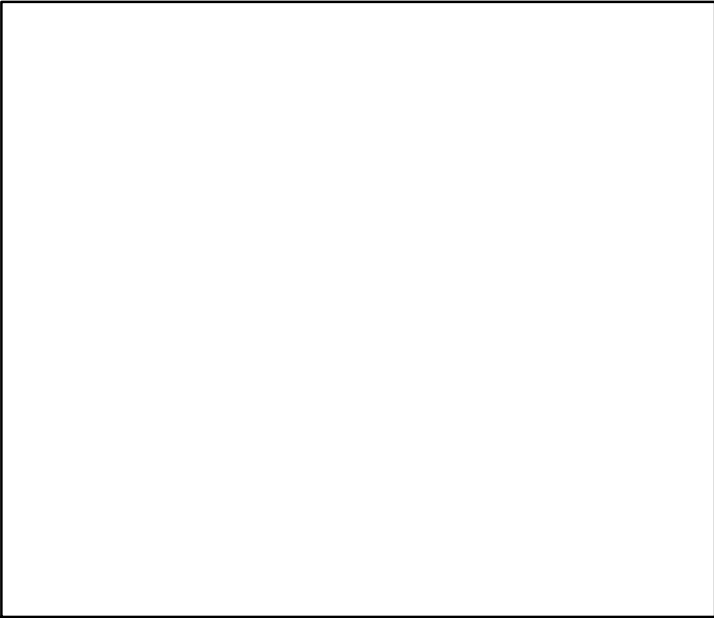
Kobe MSY*



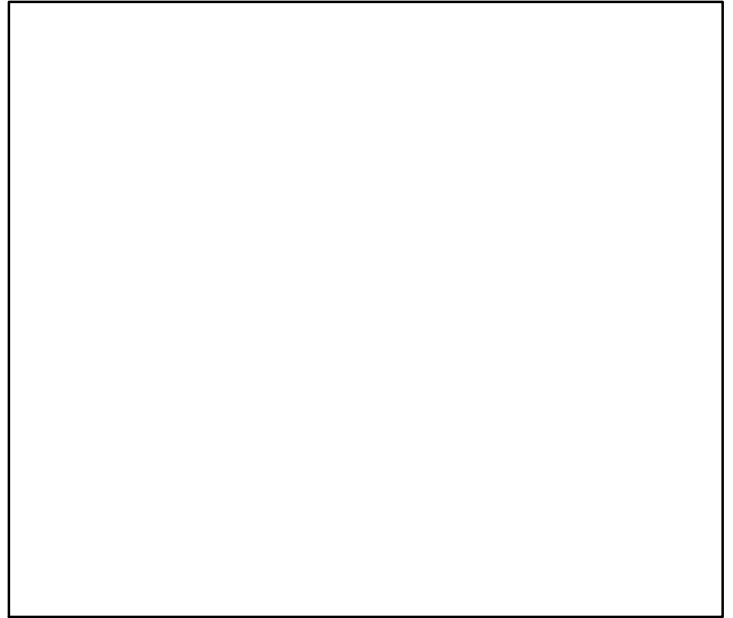
Kobe MGT*



Spawner Recruit*



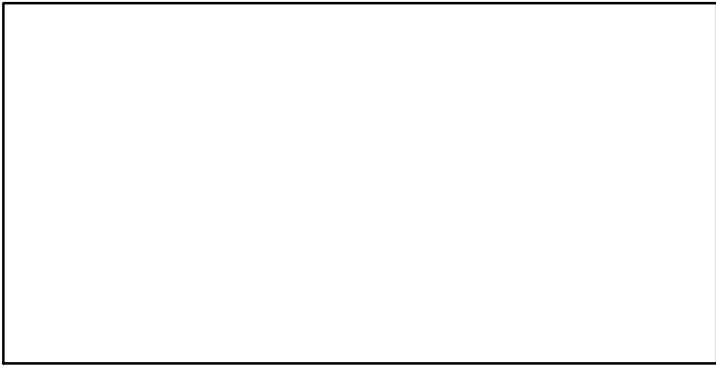
Production*



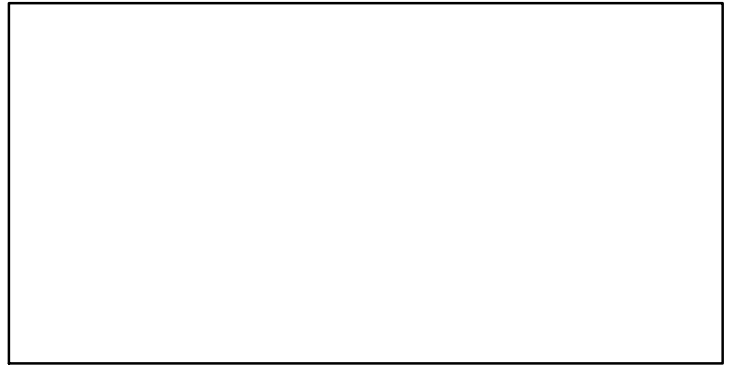
◆ Start Year ◆ End Year * No Data

Benguela Hake West Africa Subgroup 3 [BHAKEWASG3]

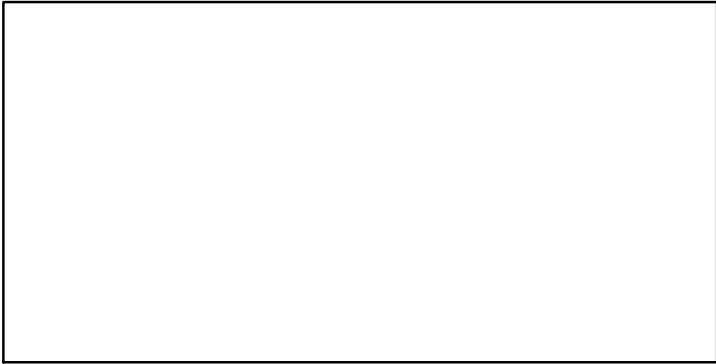
TB*



SSB*



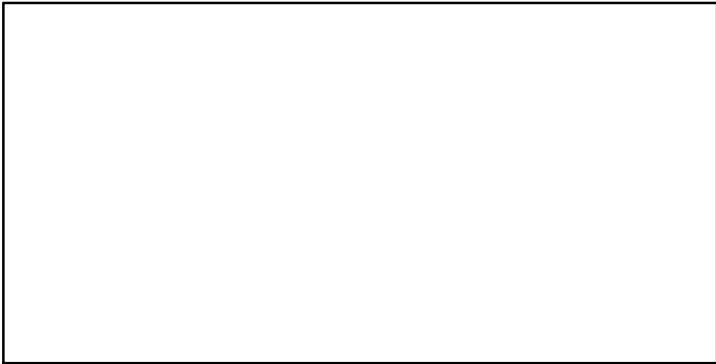
TN *



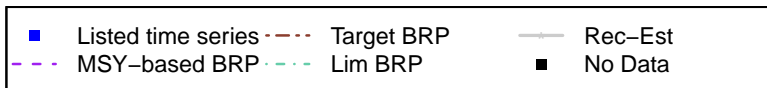
F*



ER*



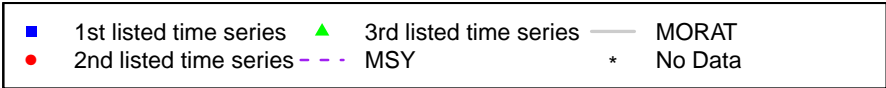
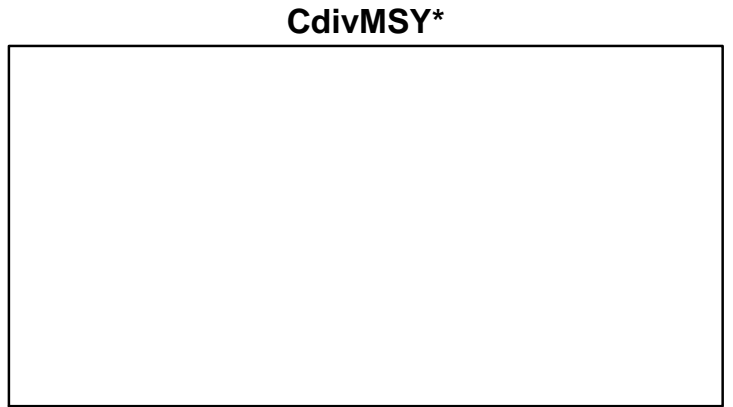
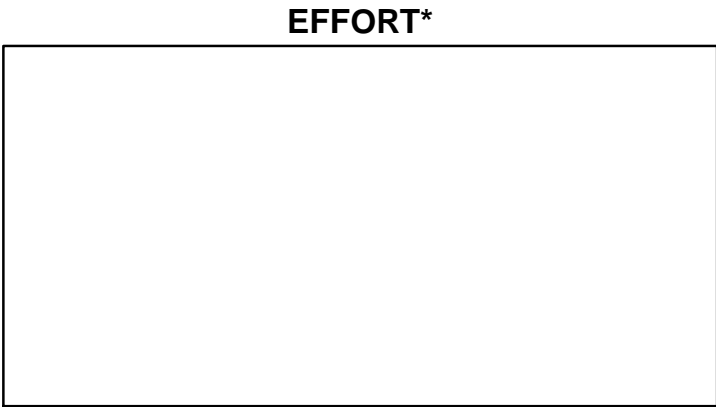
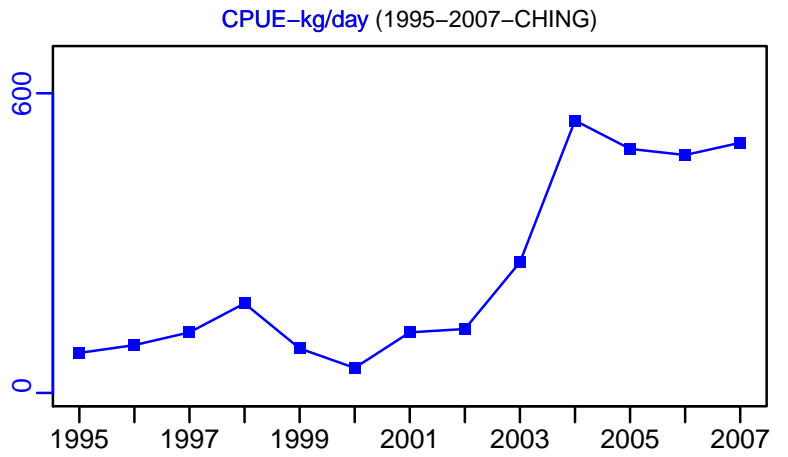
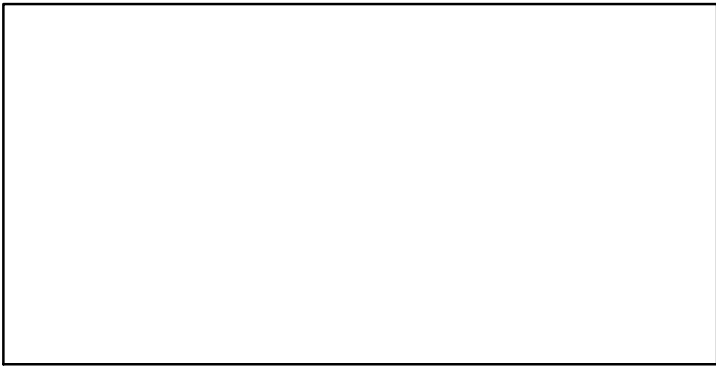
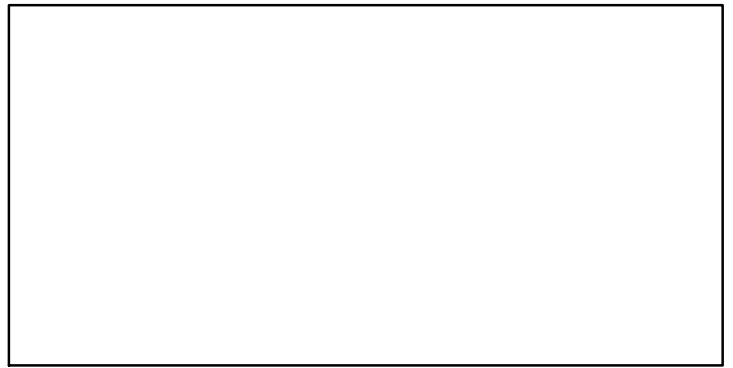
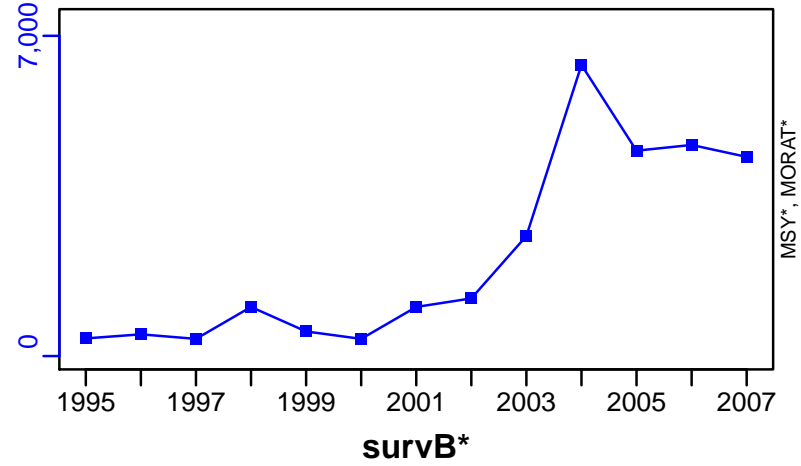
Recruits*



Benguela Hake West Africa Subgroup 3 [BHAKEWASG3]

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

TAC*, Cpair*, Cadv*



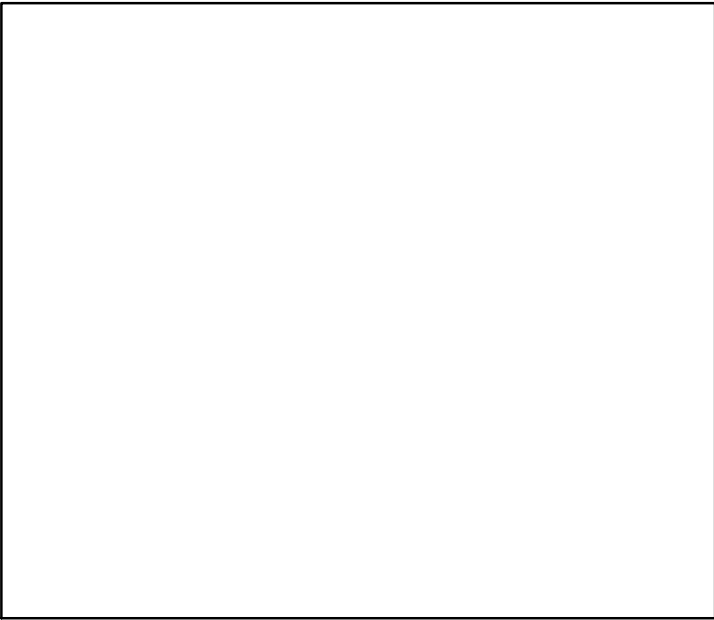
Bonga West Africa [BONGAWA]

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

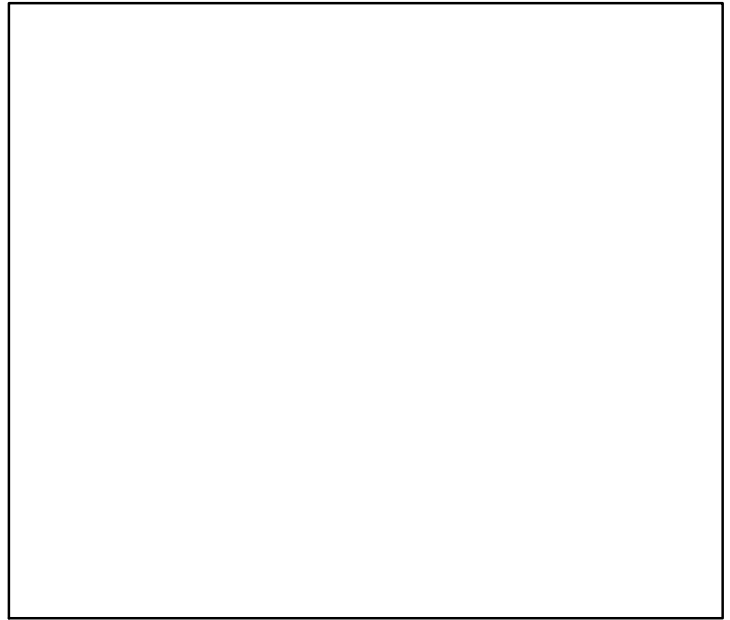
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

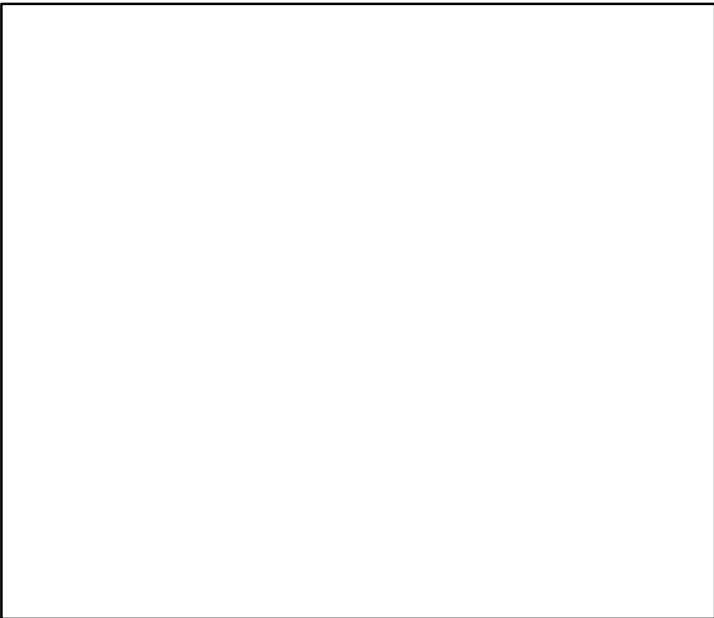
Kobe MSY*



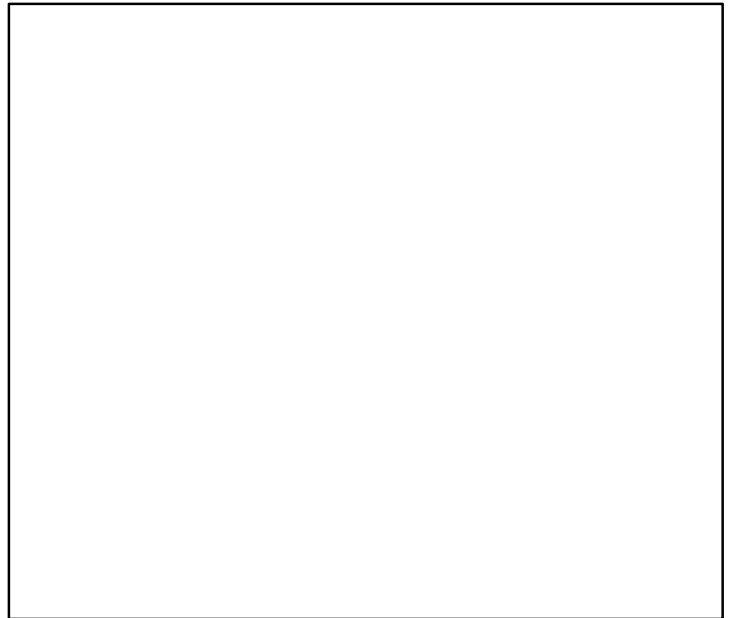
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Bonga West Africa [BONGAWA]

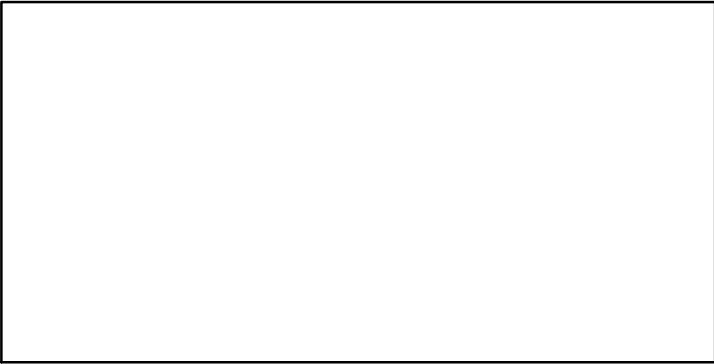
TB*



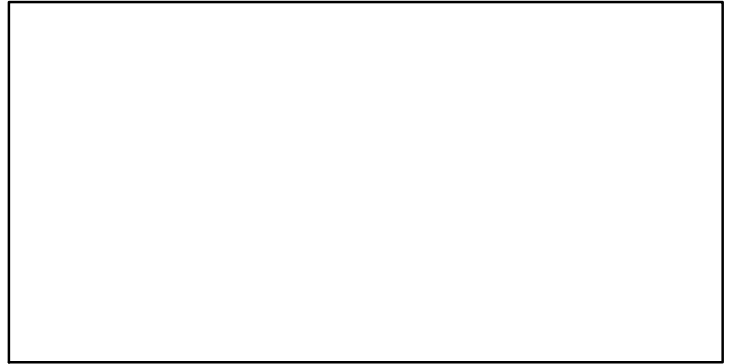
SSB*



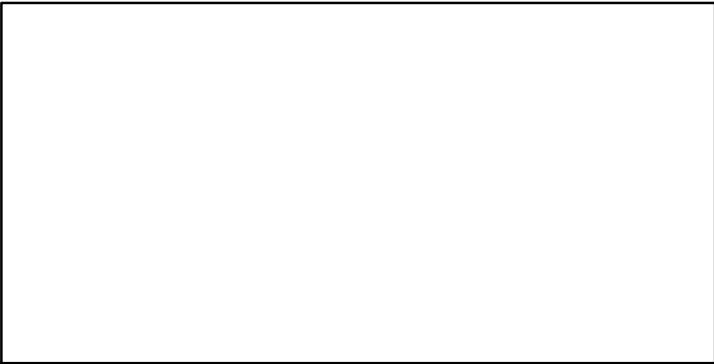
TN *



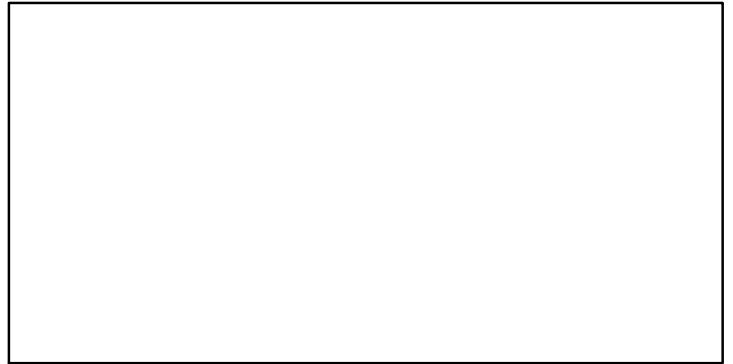
F*



ER*



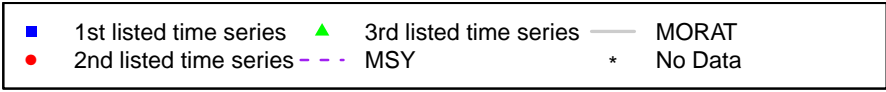
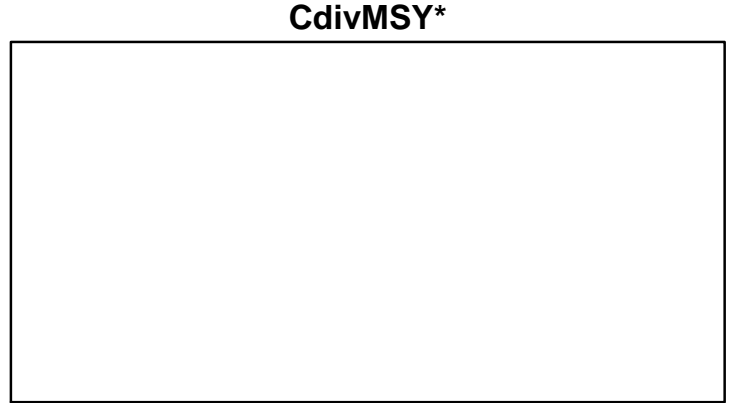
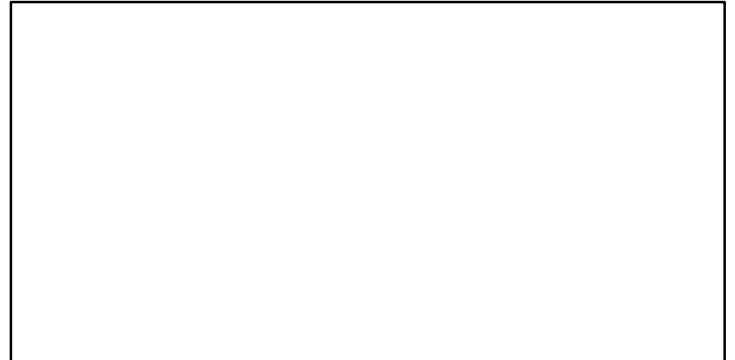
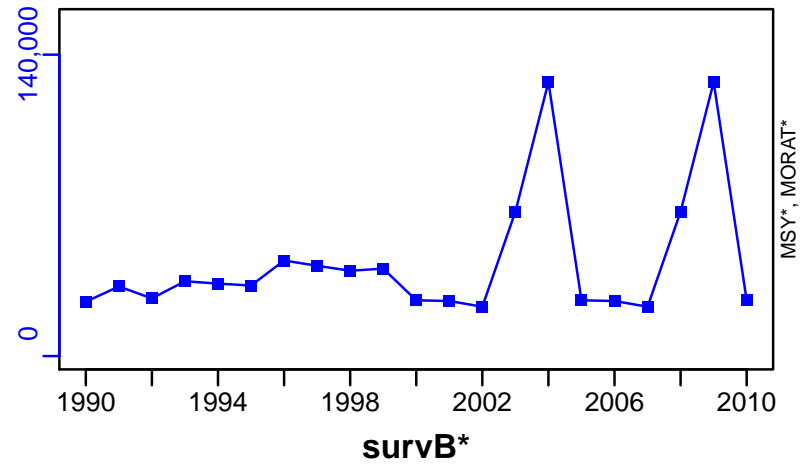
Recruits*



Bonga West Africa [BONGAWA]

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

TAC*, Cpair*, Cadv*



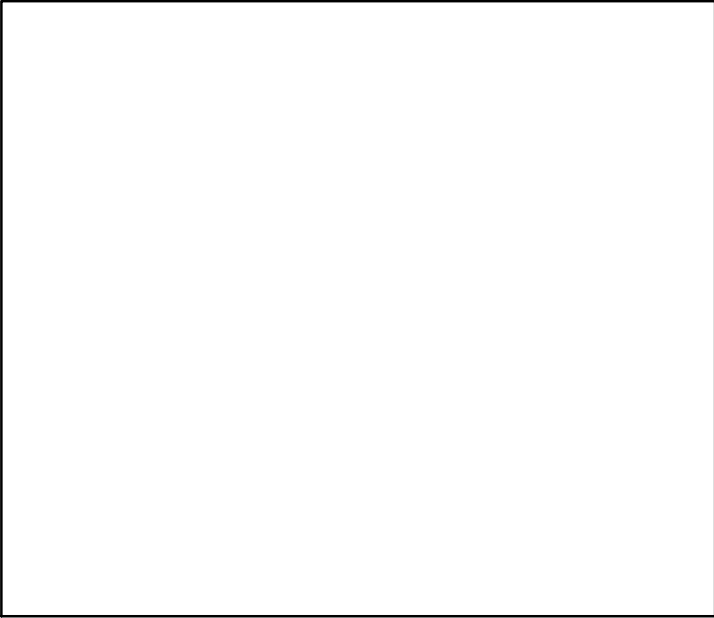
Seabream West Africa Subgroup 1 [BRMSPPWASG1]

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

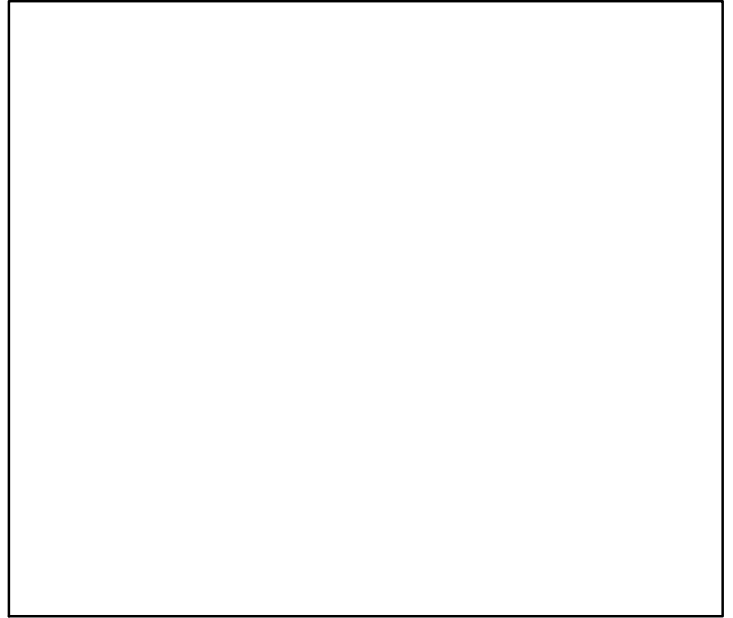
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

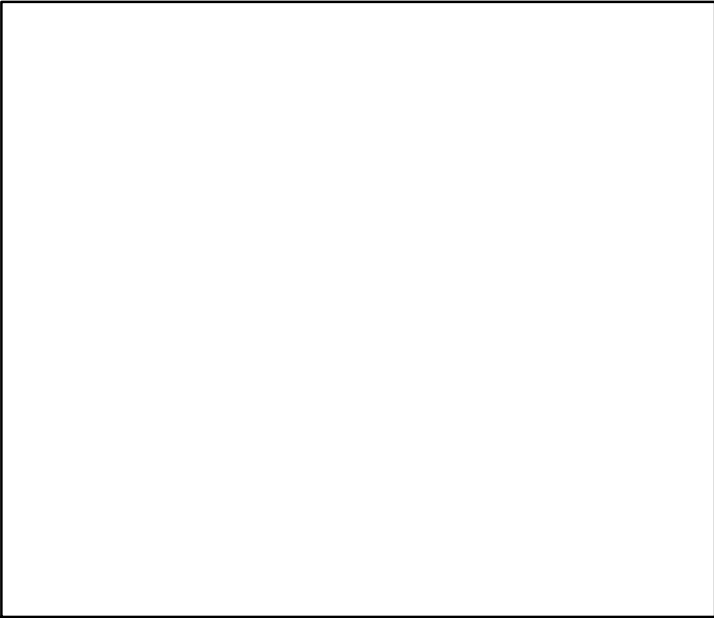
Kobe MSY*



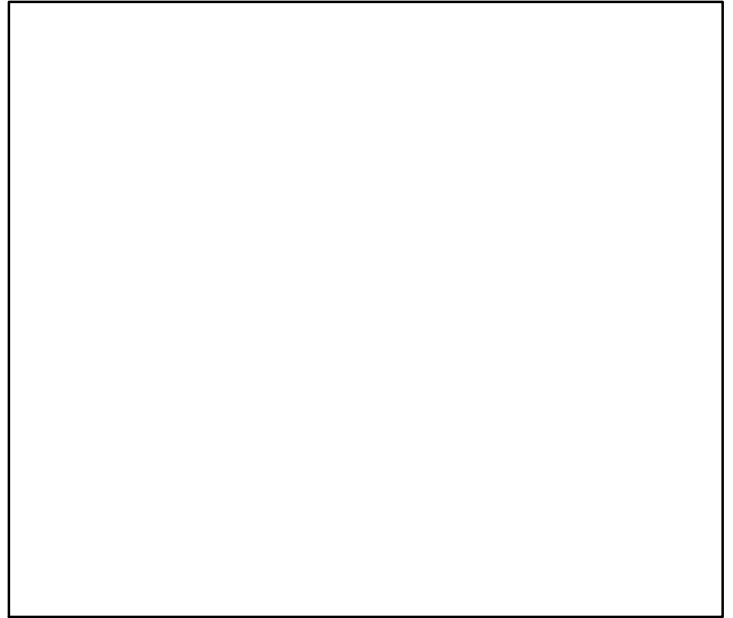
Kobe MGT*



Spawner Recruit*



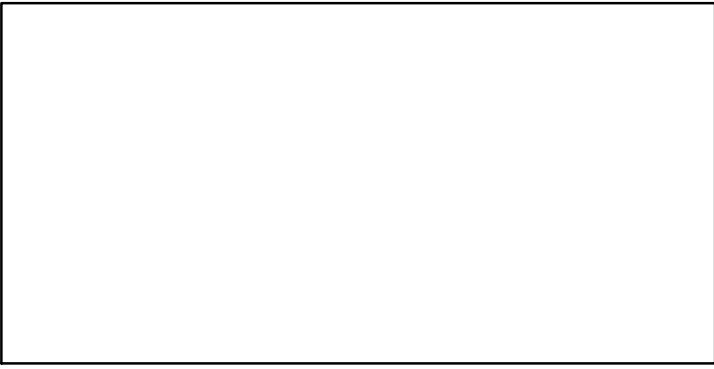
Production*



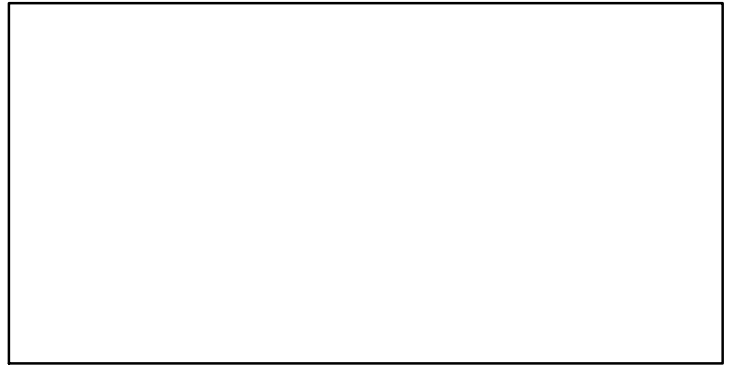
◆ Start Year ◆ End Year * No Data

Seabream West Africa Subgroup 1 [BRMSPPWASG1]

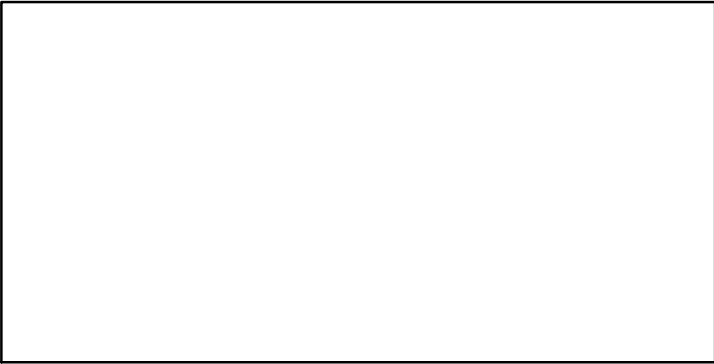
TB*



SSB*



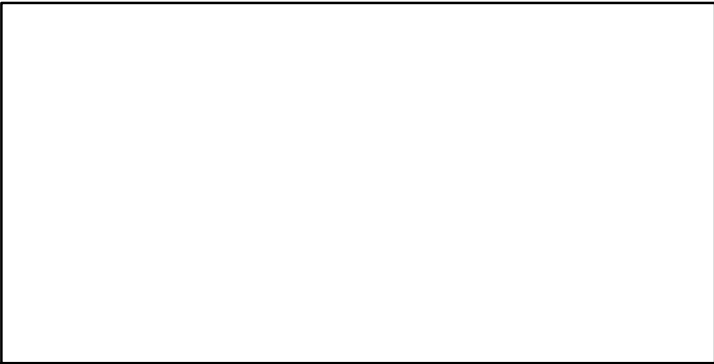
TN *



F*



ER*



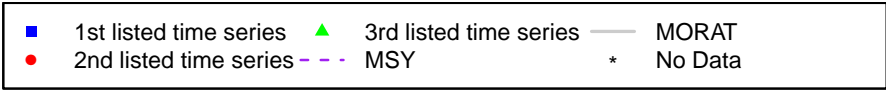
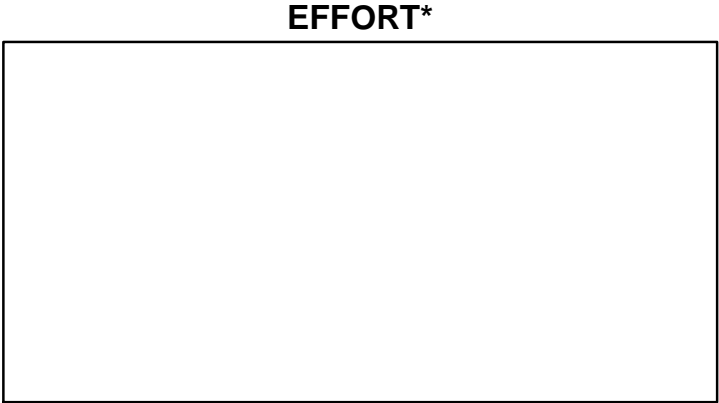
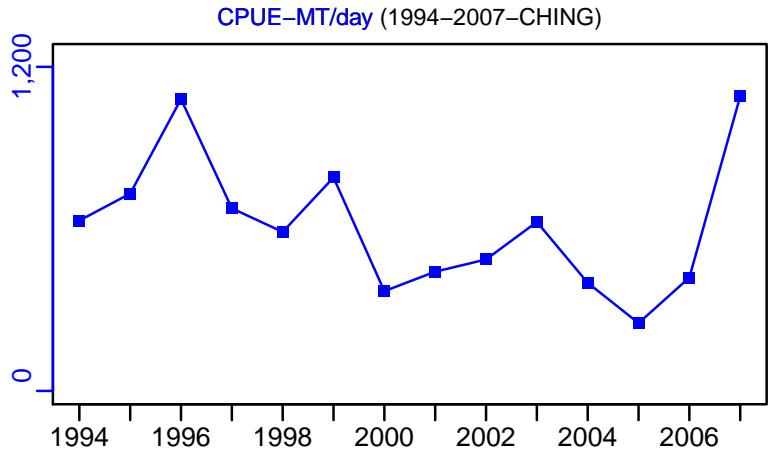
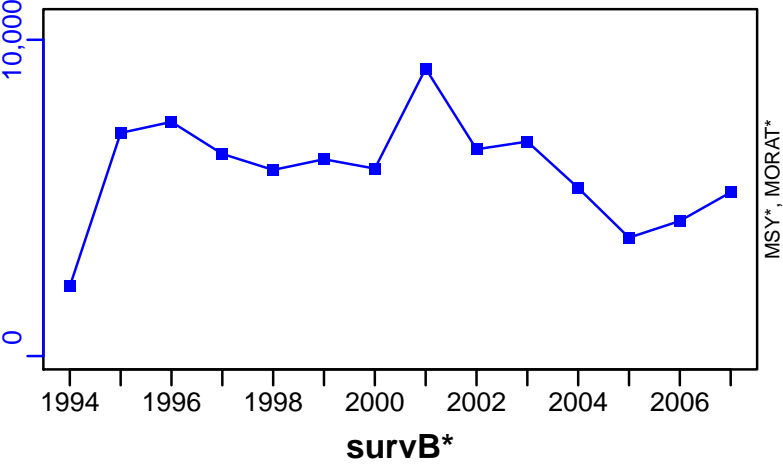
Recruits*



Seabream West Africa Subgroup 1 [BRMSPPWASG1]

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

TAC*, Cpair*, Cadv*



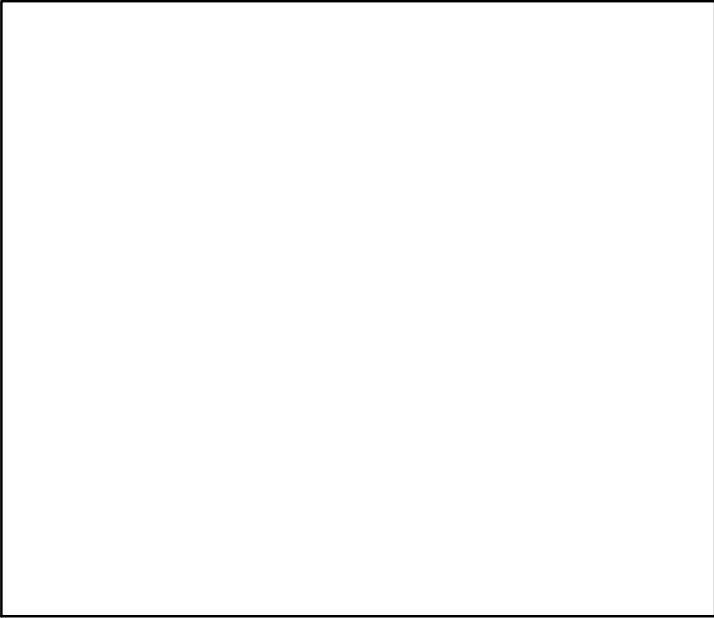
Seabream West Africa Subgroup 2 [BRMSPPWASG2]

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

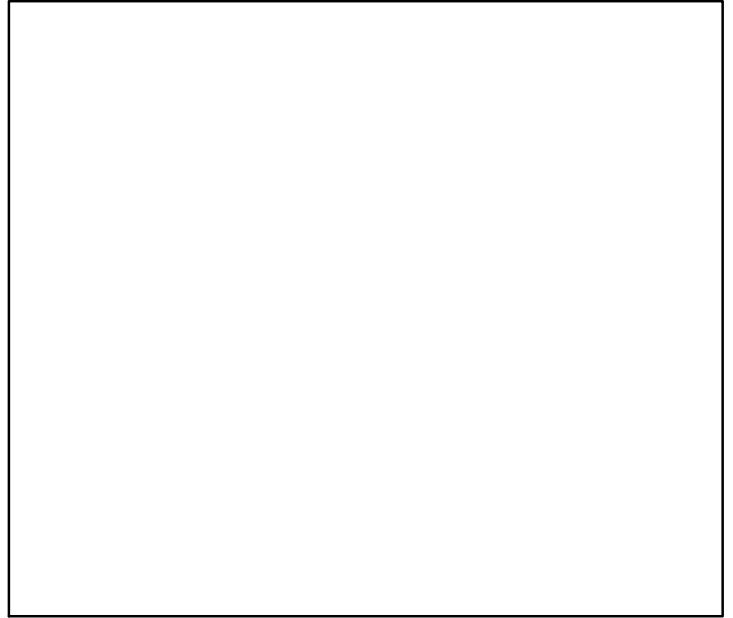
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

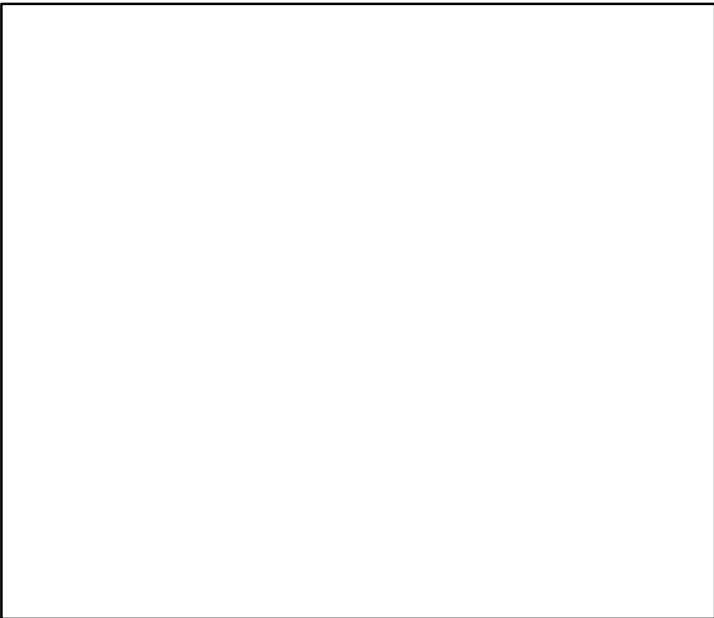
Kobe MSY*



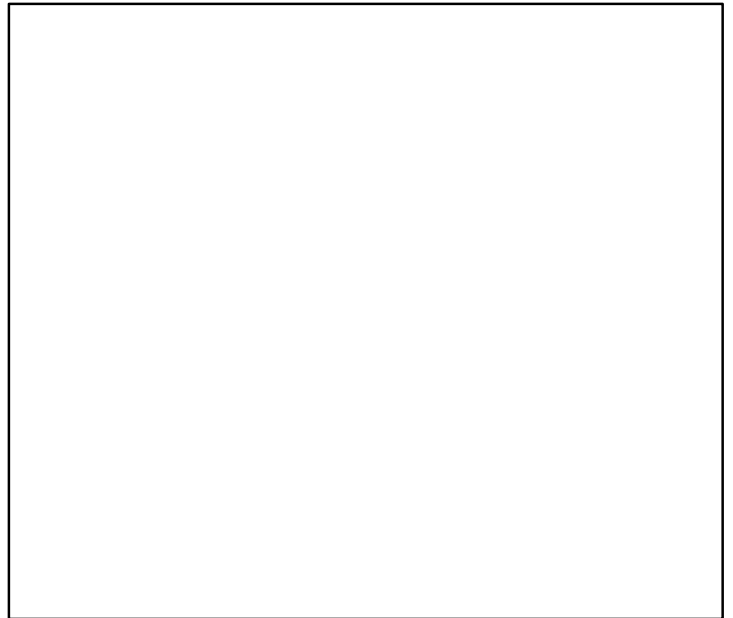
Kobe MGT*



Spawner Recruit*



Production*

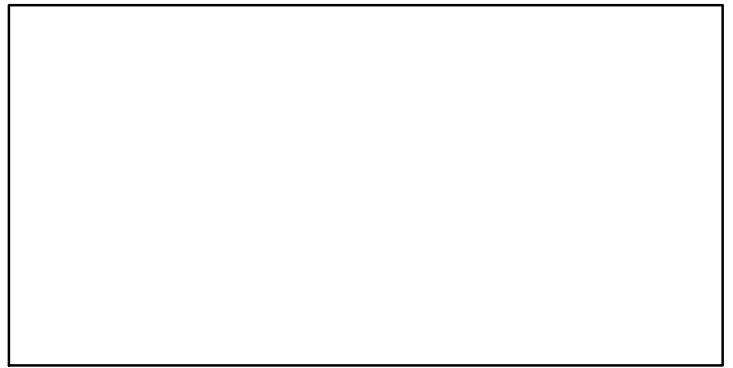
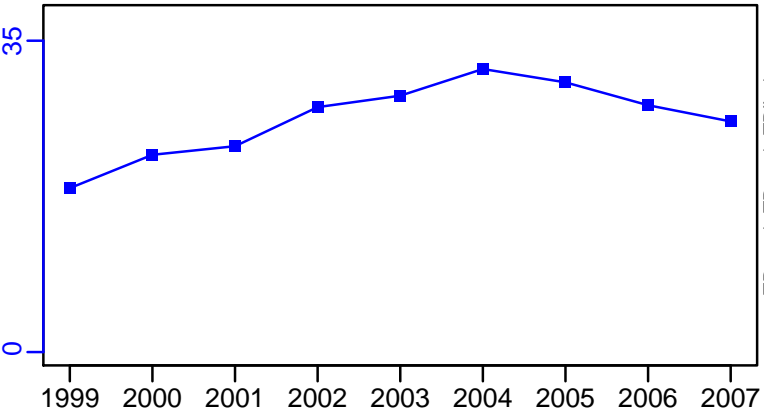


◆ Start Year ◆ End Year * No Data

Seabream West Africa Subgroup 2 [BRMSPPWASG2]

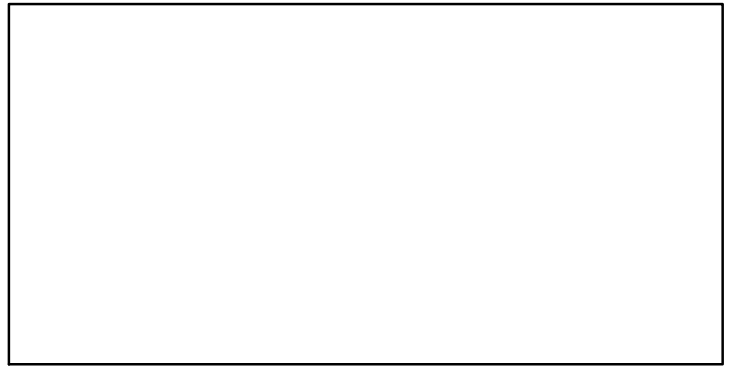
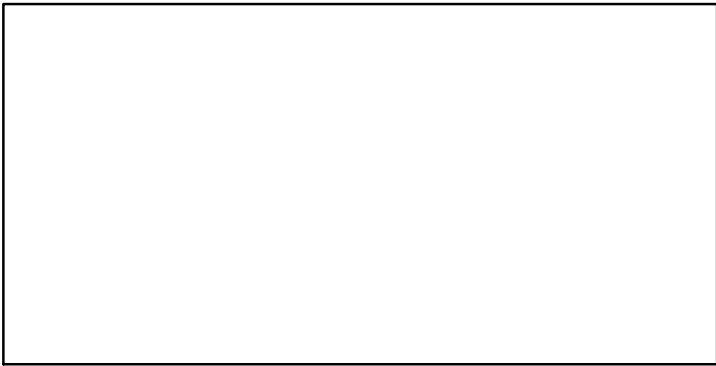
TB-index (1990-2007-CHING)

SSB*



TN *

F*



ER*

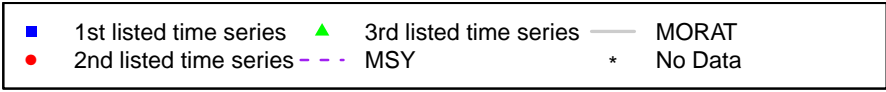
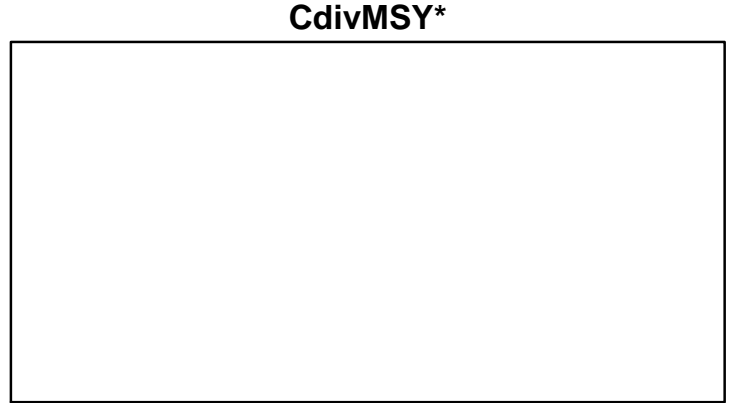
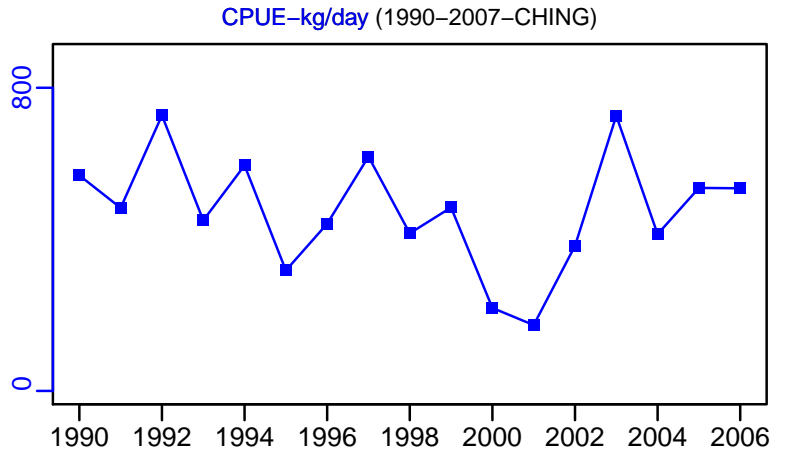
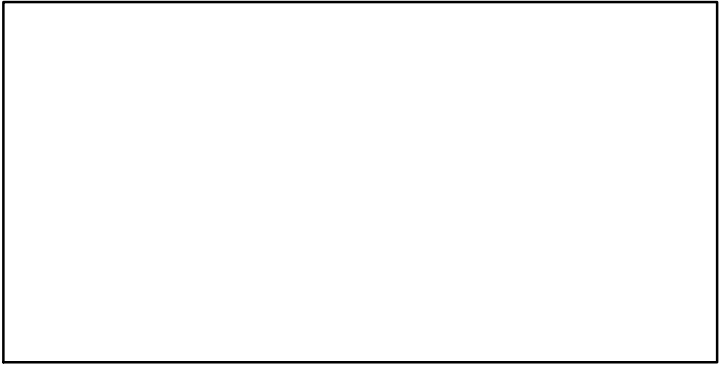
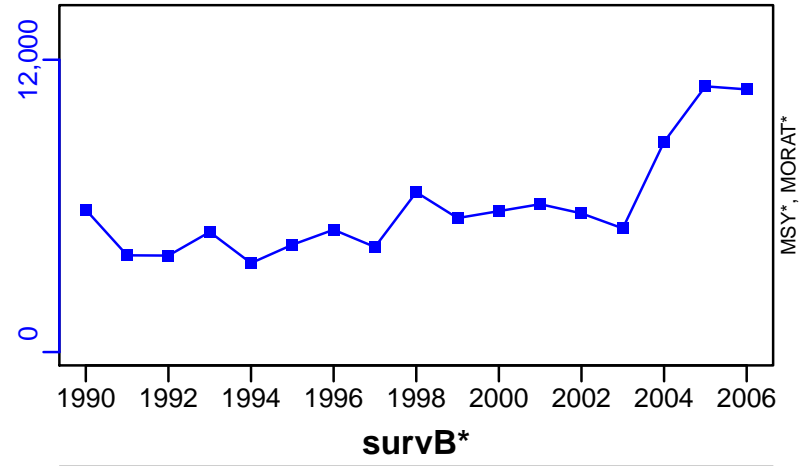
Recruits*



Seabream West Africa Subgroup 2 [BRMSPPWASG2]

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

TAC*, Cpair*, Cadv*



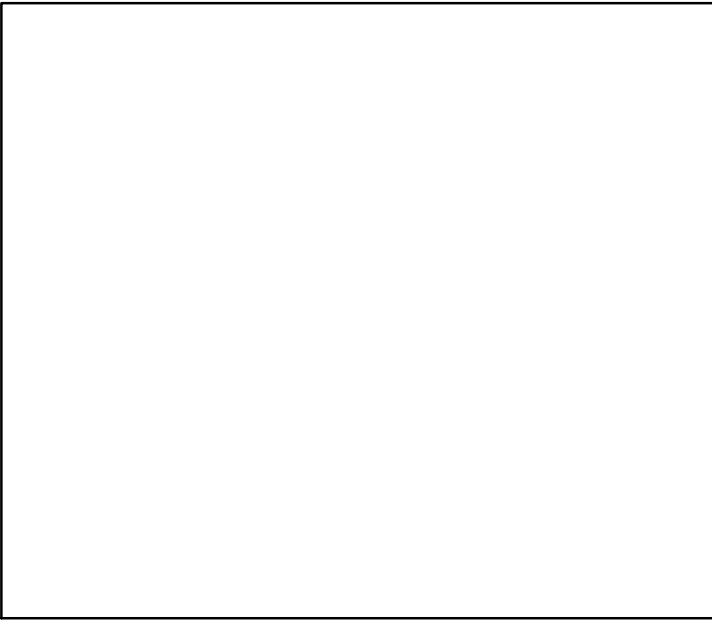
Seabream West Africa Subgroup 3 [BRMSPPWASG3]

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

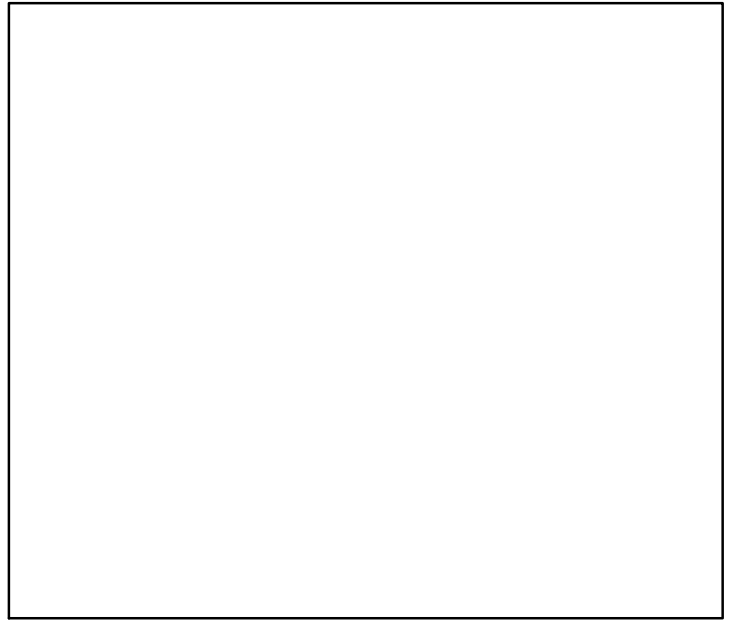
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

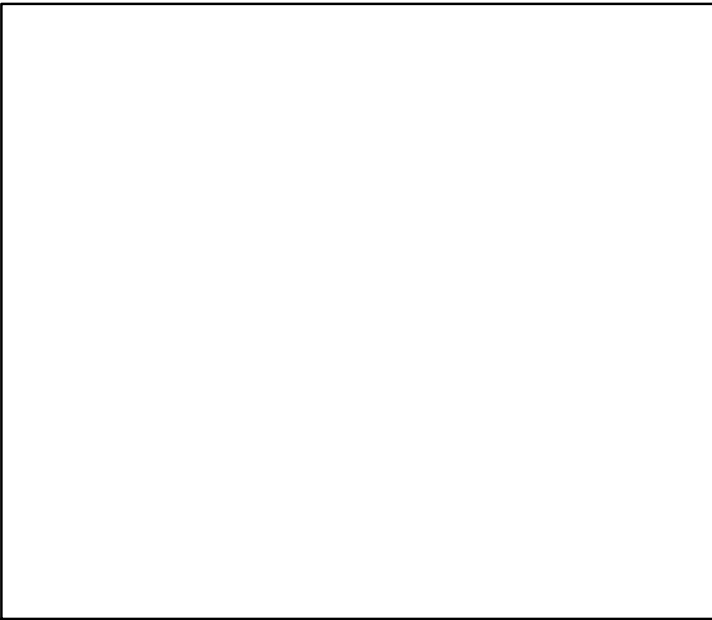
Kobe MSY*



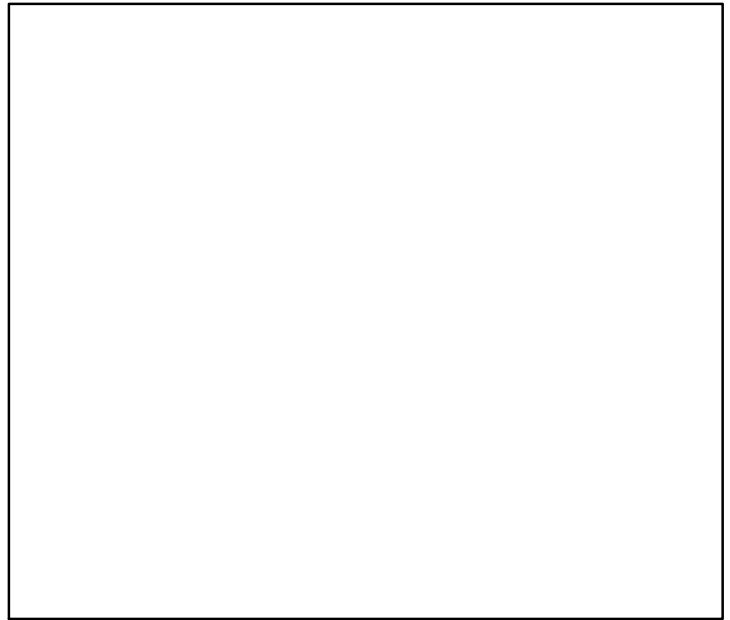
Kobe MGT*



Spawner Recruit*



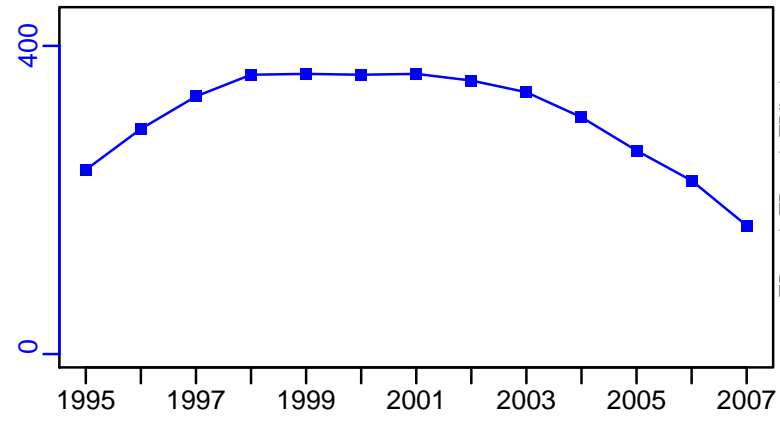
Production*



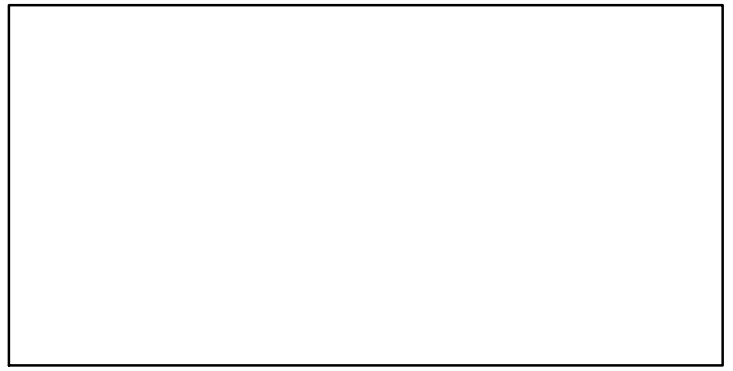
◆ Start Year ◆ End Year * No Data

Seabream West Africa Subgroup 3 [BRMSPPWASG3]

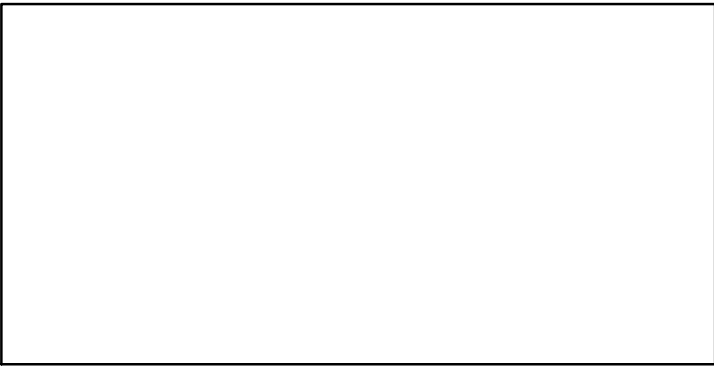
TB-index (1995-2007-CHING)



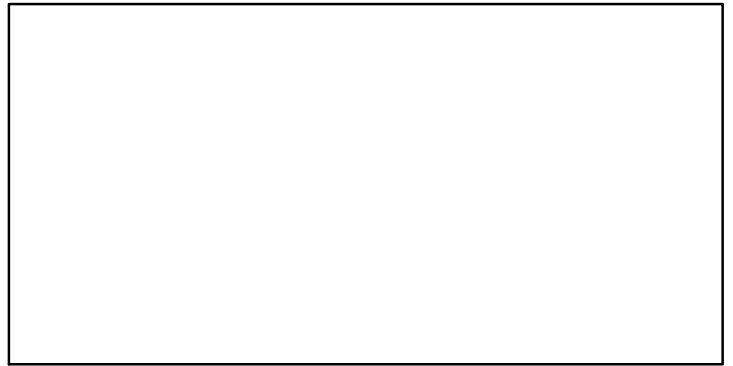
SSB*



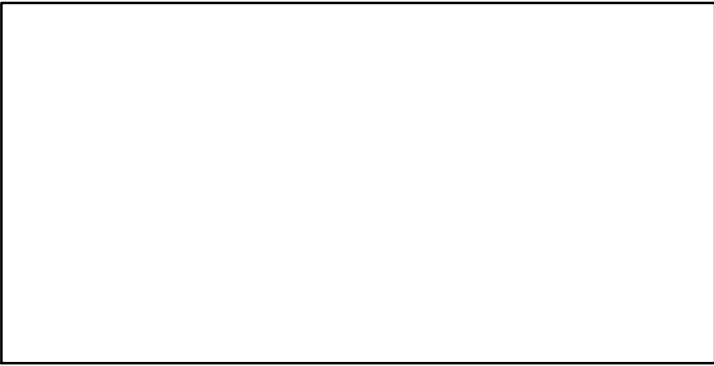
TN *



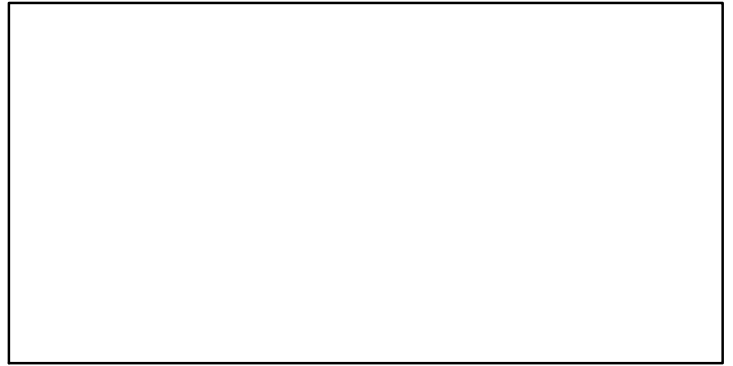
F*



ER*



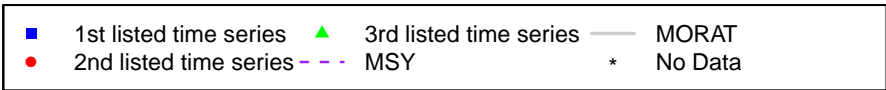
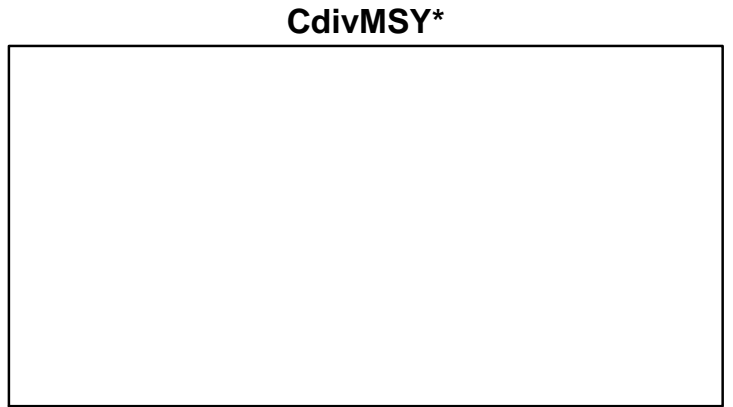
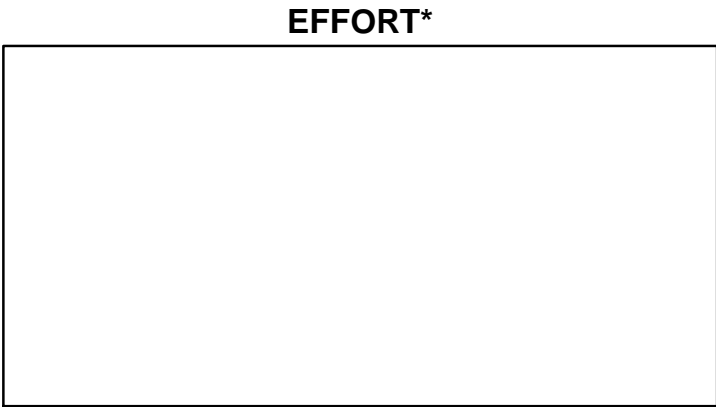
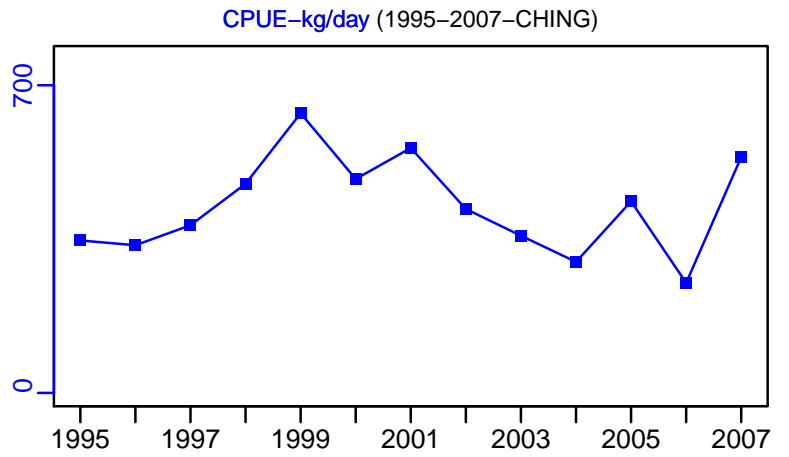
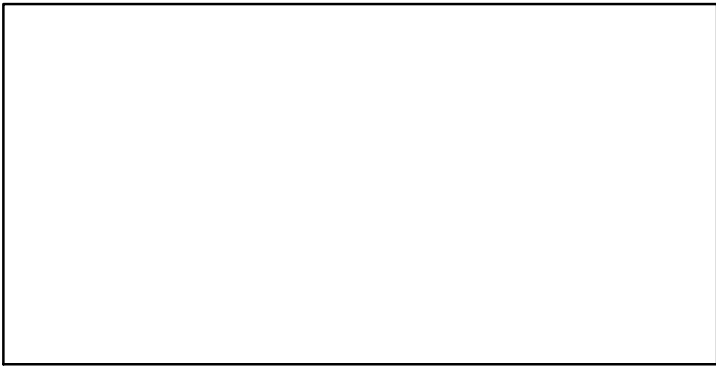
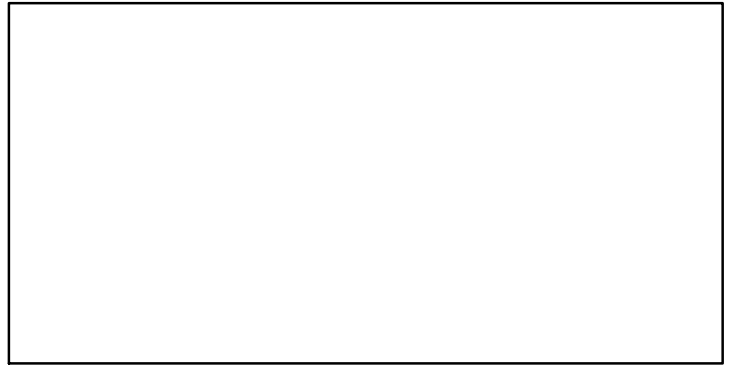
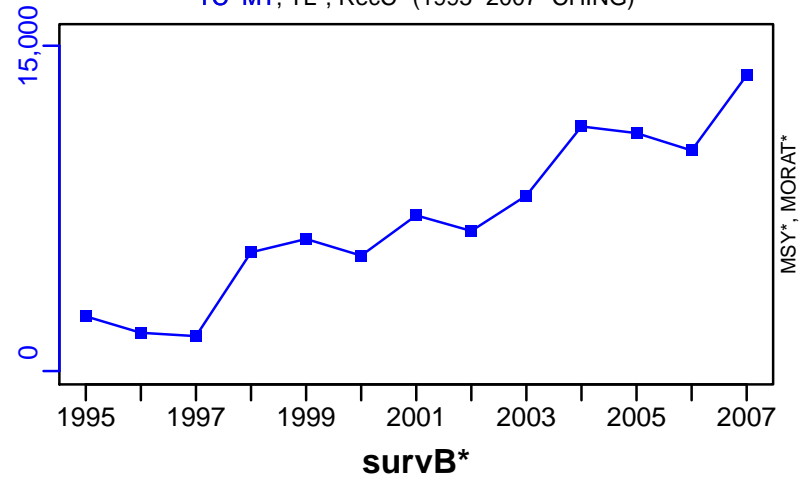
Recruits*



Seabream West Africa Subgroup 3 [BRMSPPWASG3]

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

TAC*, Cpair*, Cadv*



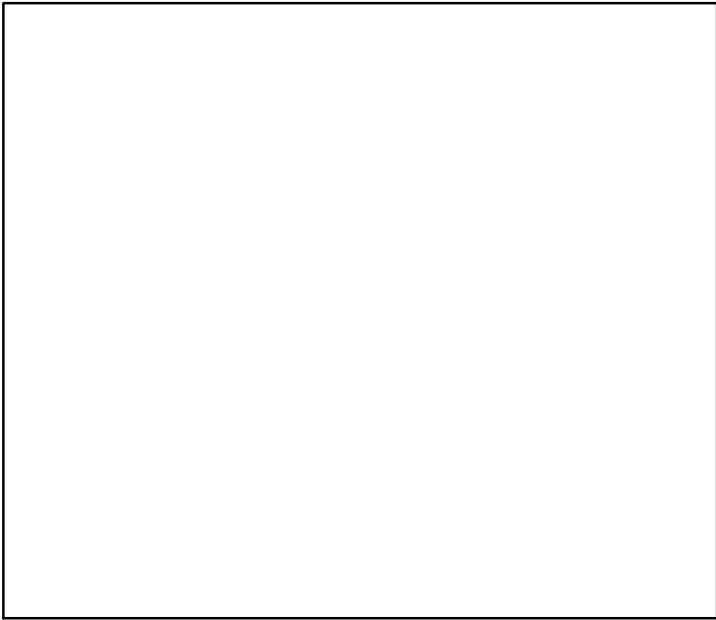
Catfish West Africa Subgroup 1 [CATWASG1]

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	-	-	-		

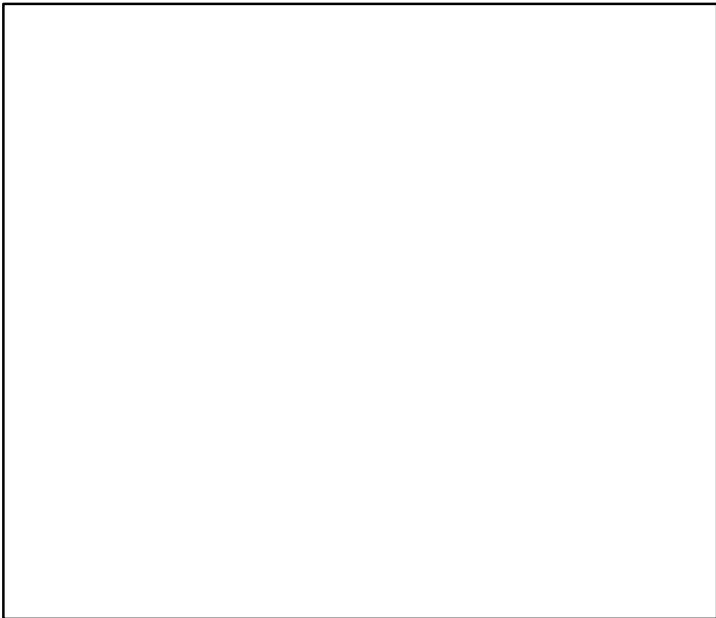
Kobe MSY*



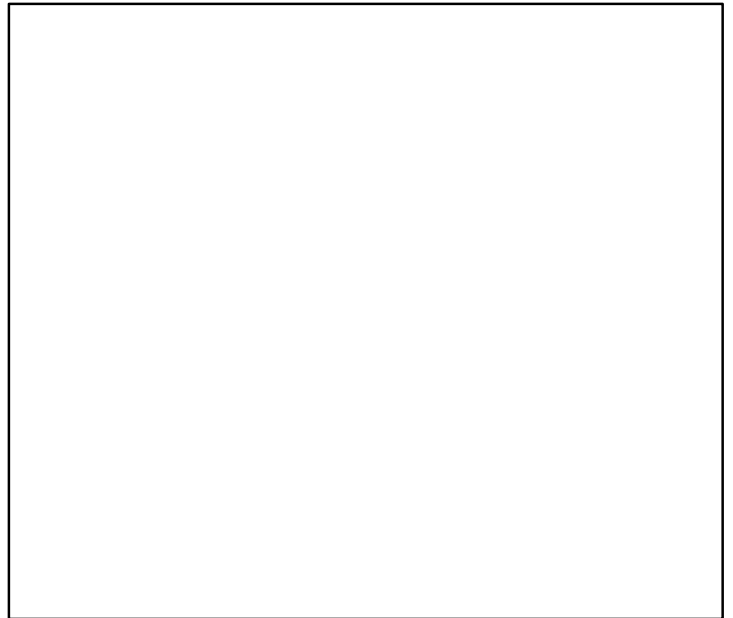
Kobe MGT*



Spawner Recruit*



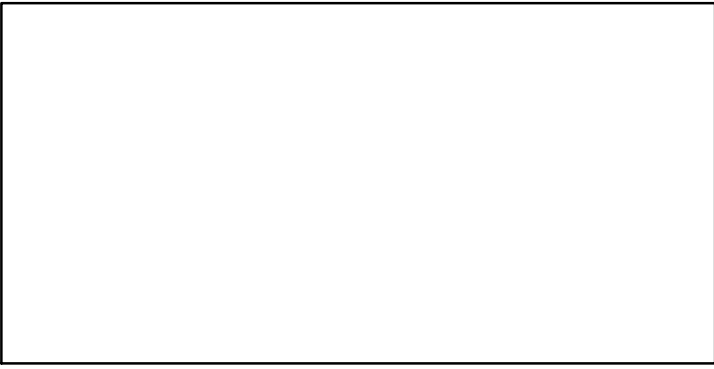
Production*



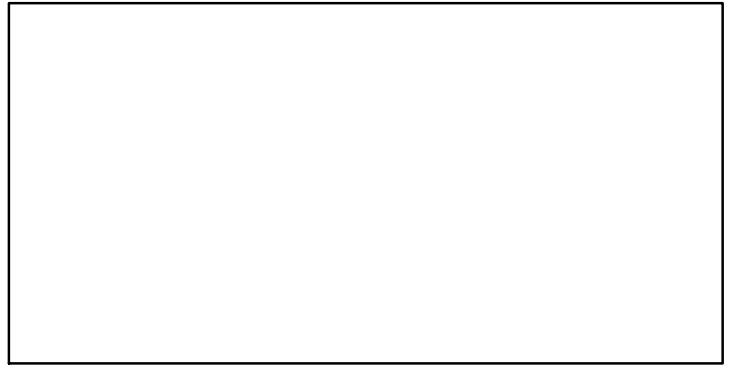
◆ Start Year ◆ End Year * No Data

Catfish West Africa Subgroup 1 [CATWASG1]

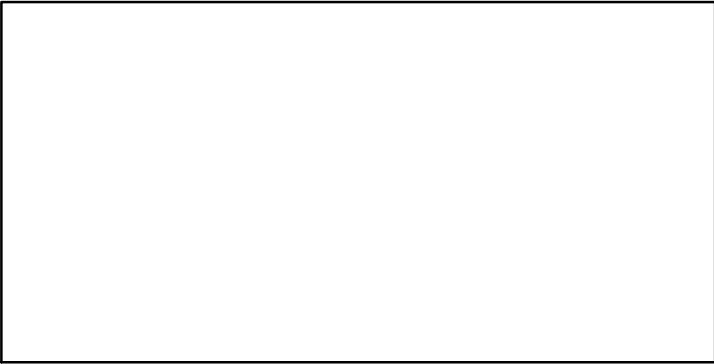
TB*



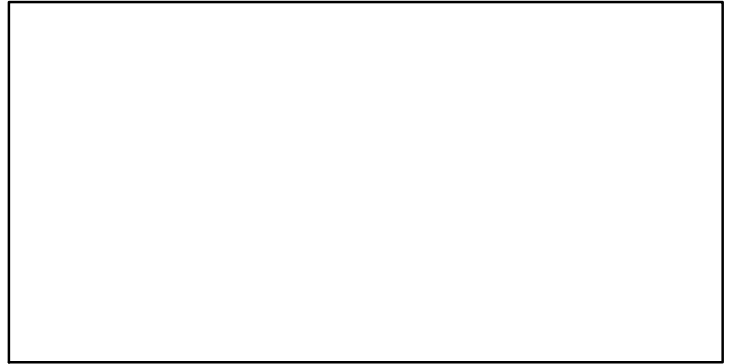
SSB*



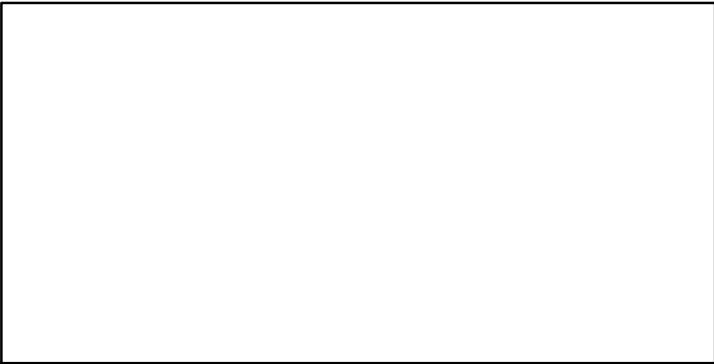
TN *



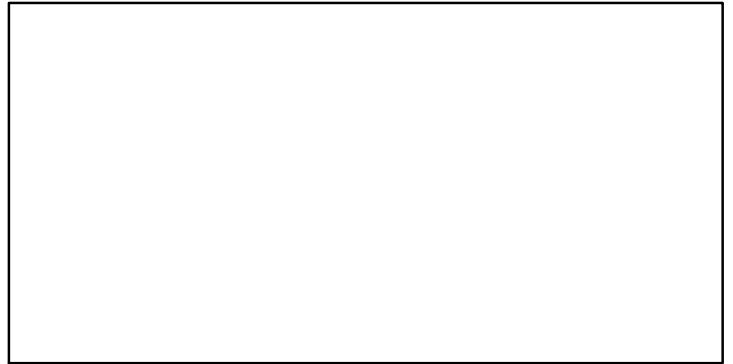
F*



ER*



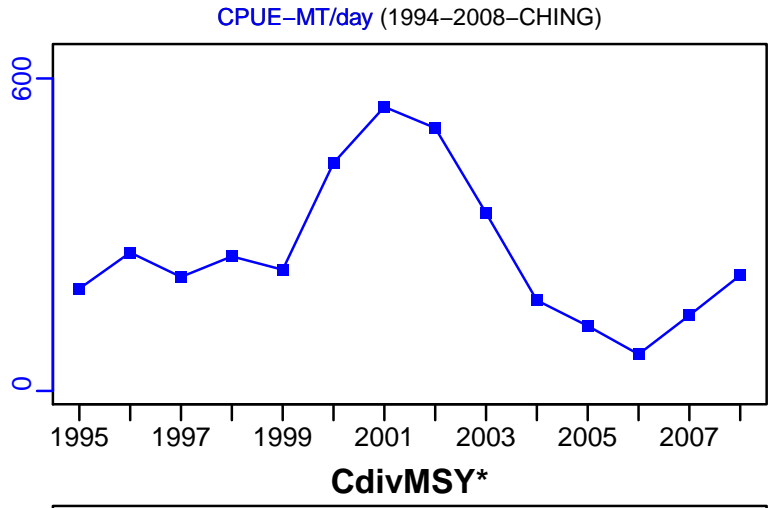
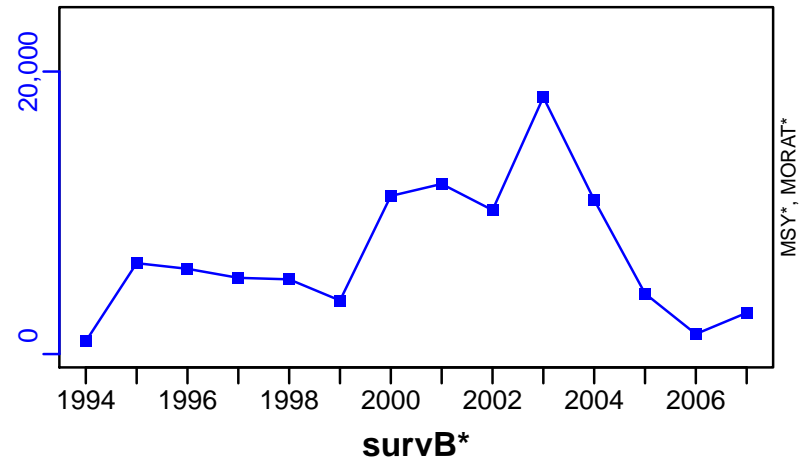
Recruits*



Catfish West Africa Subgroup 1 [CATWASG1]

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

TAC*, Cpair*, Cadv*



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

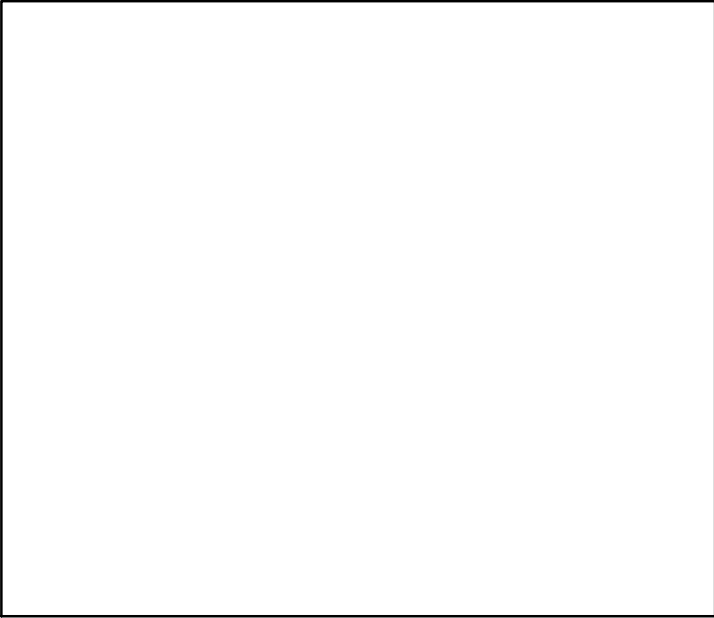
Catfish West Africa Subgroup 3 [CATWASG3]

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

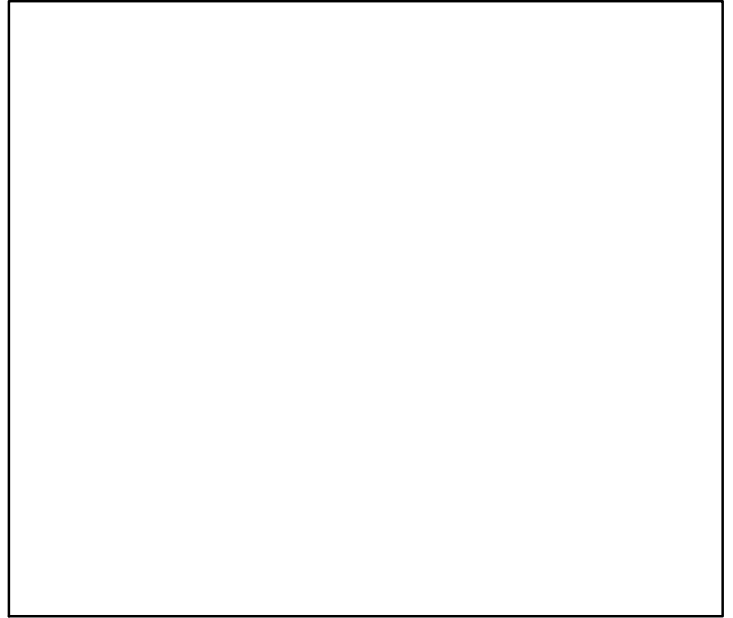
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

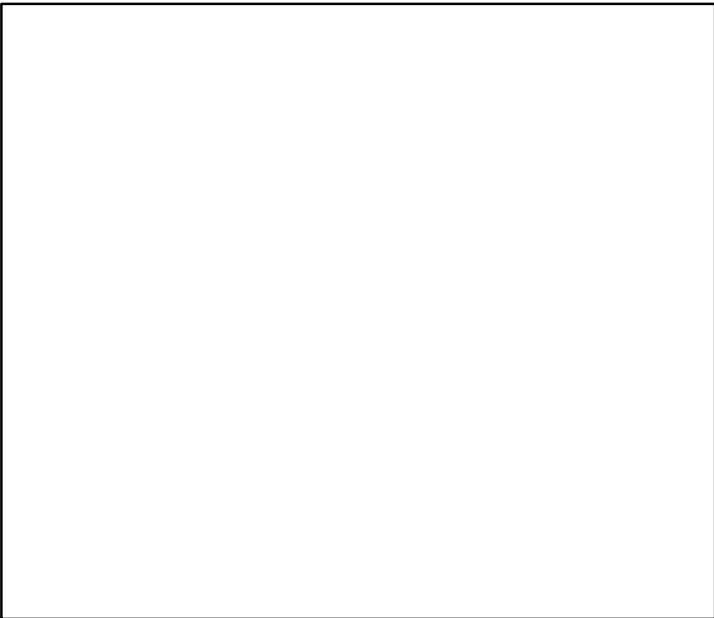
Kobe MSY*



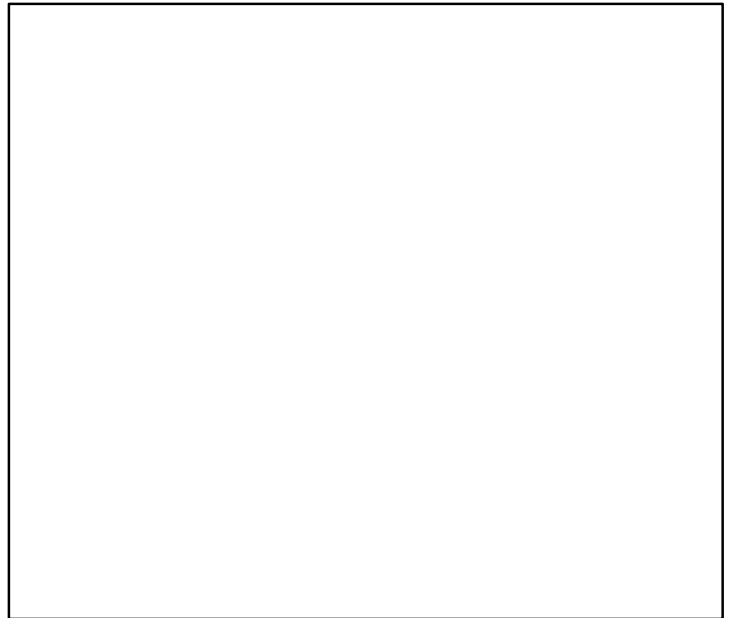
Kobe MGT*



Spawner Recruit*



Production*

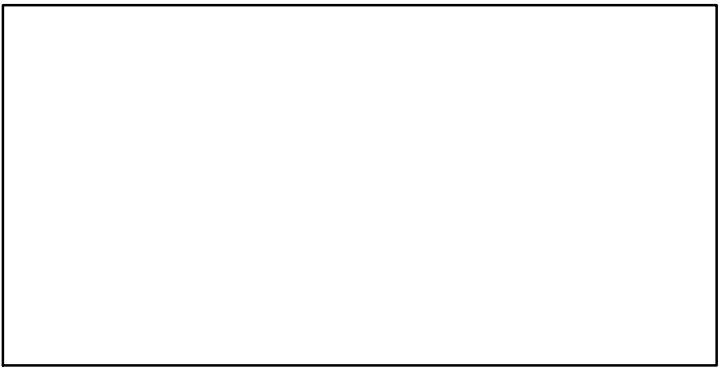
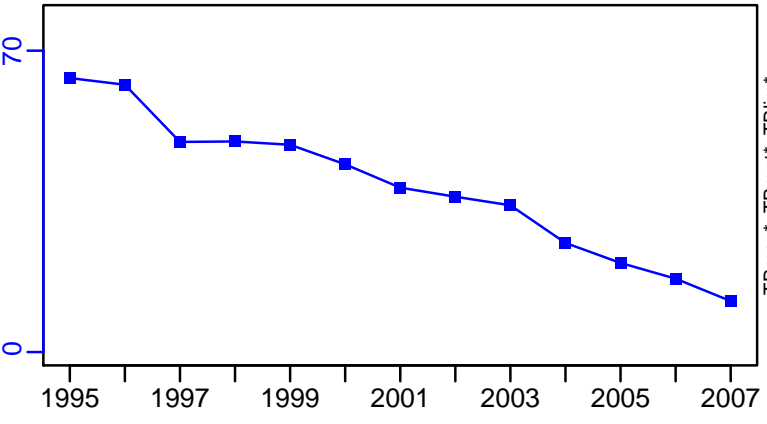


◆ Start Year ◆ End Year * No Data

Catfish West Africa Subgroup 3 [CATWASG3]

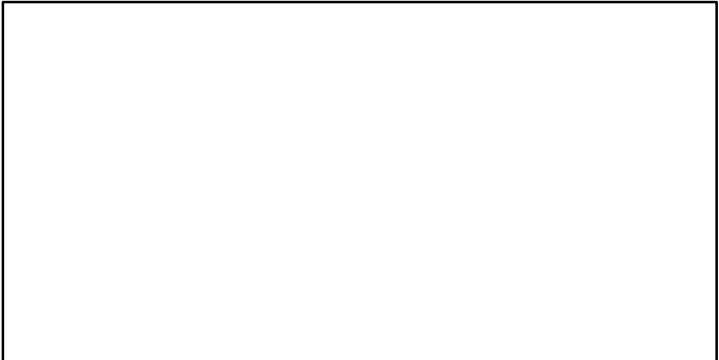
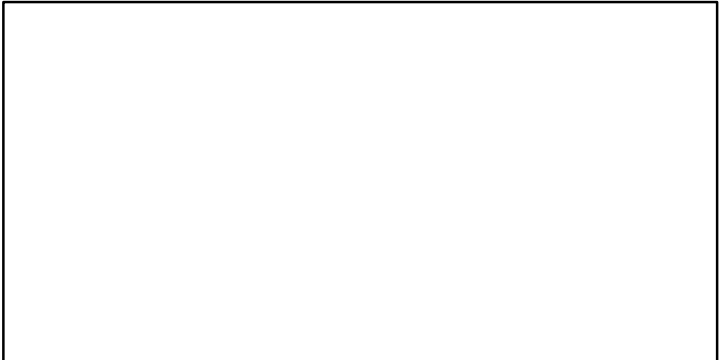
TB-index (1995-2007-CHING)

SSB*



TN *

F*



ER*

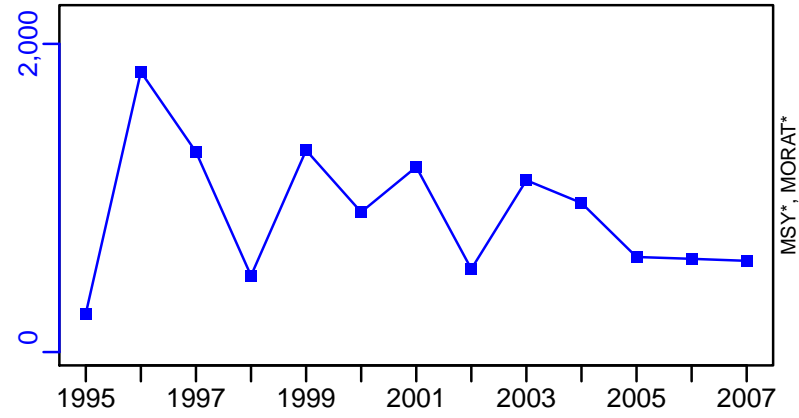
Recruits*



Catfish West Africa Subgroup 3 [CATWASG3]

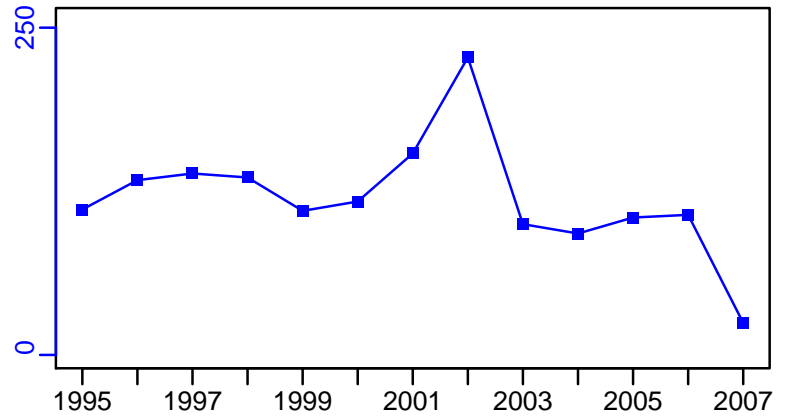
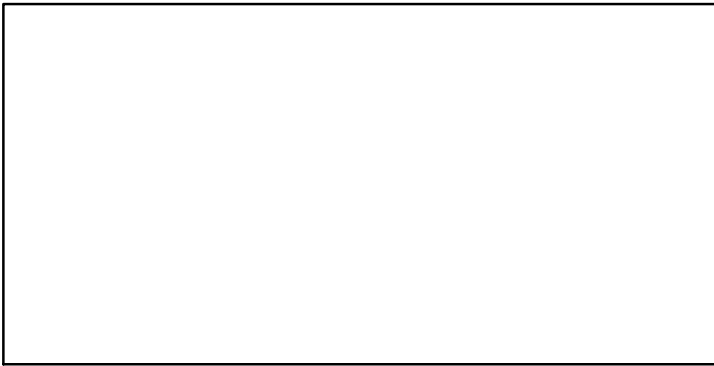
TC-MT, TL*, RecC* (1995-2007-CHING)

TAC*, Cpair*, Cadv*



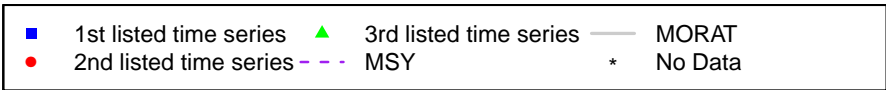
survB*

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



EFFORT*

CdivMSY*



Cunene Horse Mackerel West Africa [CHMACKWA]

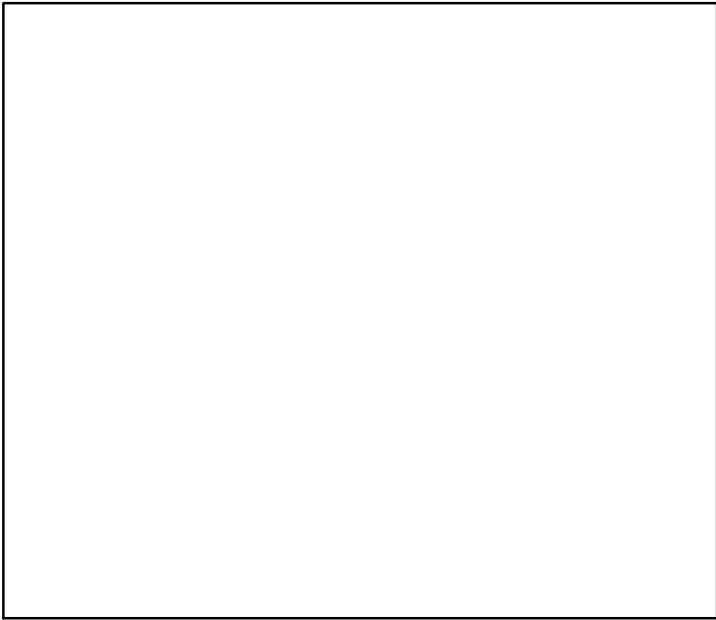
Metadata	
Scientific Name	Trachurus trecae
Current Assess ID	FAO-SPNWA-CHMACKWA-1990-2010-CHING
Area	West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa
Asmts in RAM	2010

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	1.39	-	-
ER	ER-calc-ratio	2010	1.391	-	-
TC	TC-MT	2010	352,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	2.623		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Cunene Horse Mackerel West Africa [CHMACKWA]

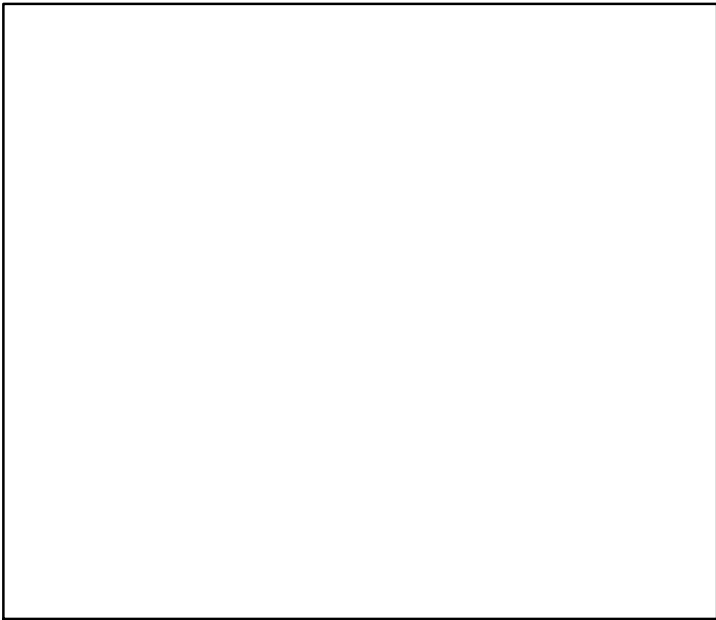
Kobe MSY*



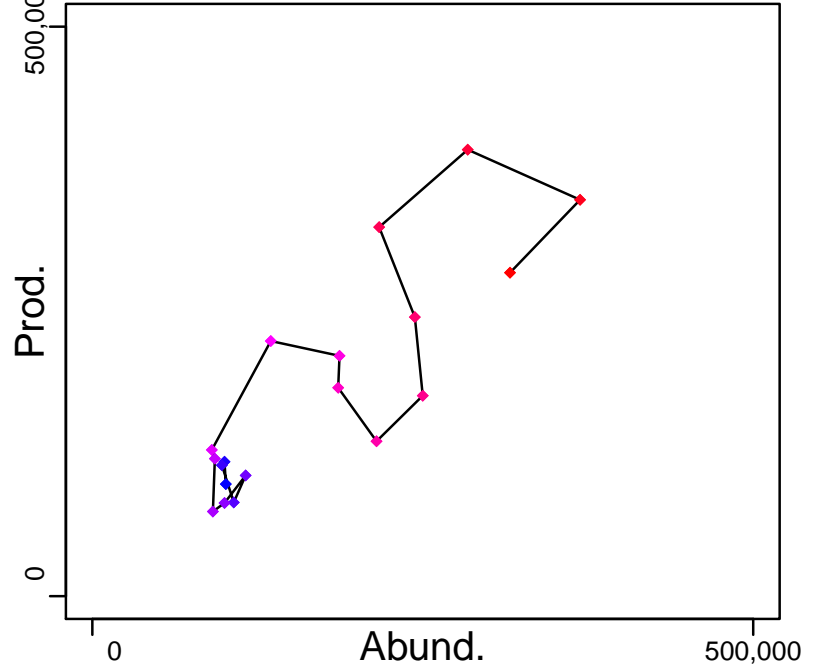
Kobe MGT*



Spawner Recruit*



Production (1990–2010–CHING)

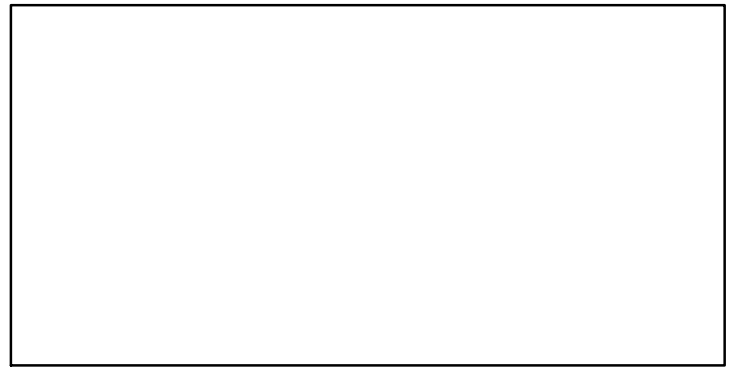
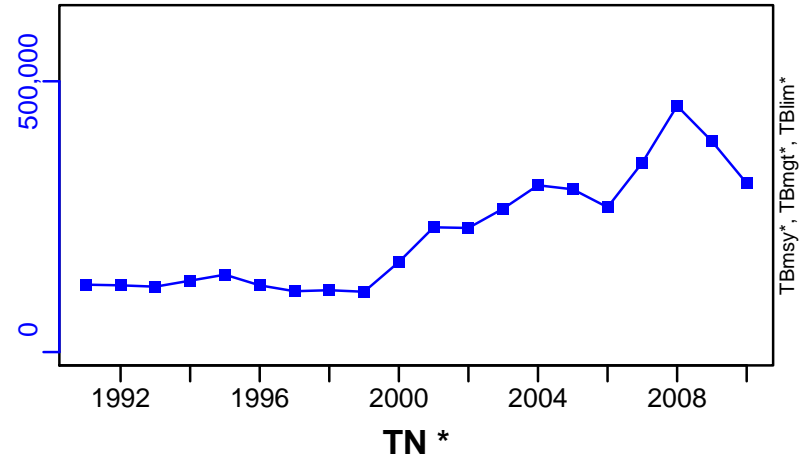


◆ Start Year ◆ End Year * No Data

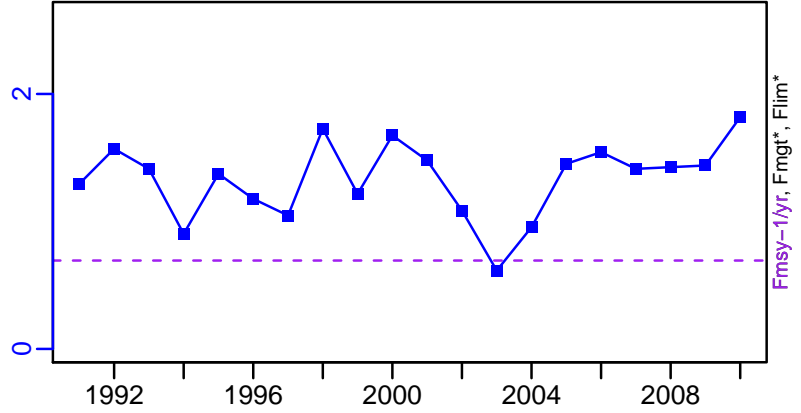
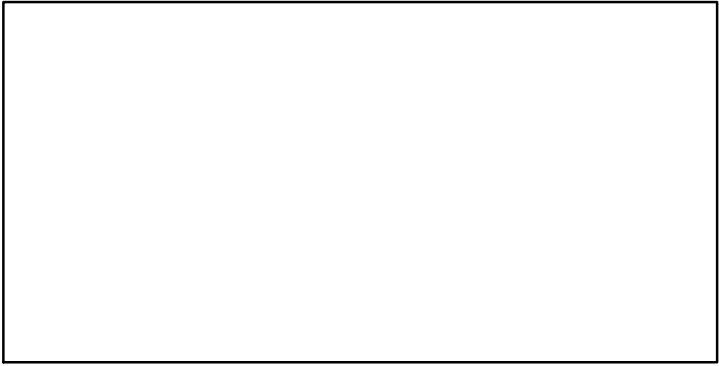
Cunene Horse Mackerel West Africa [CHMACKWA]

TB-MT (1990-2010-CHING)

SSB*

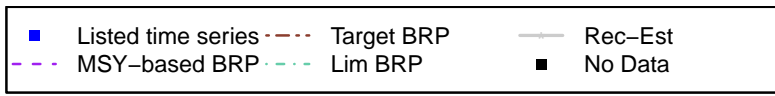
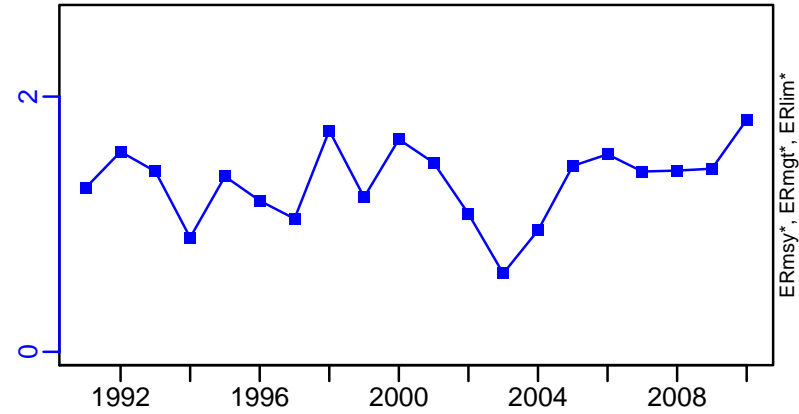


F-1/yr (1990-2010-CHING)



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

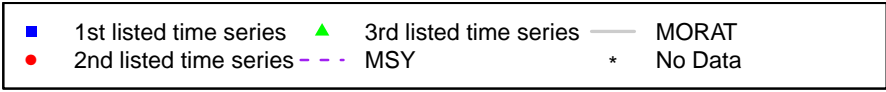
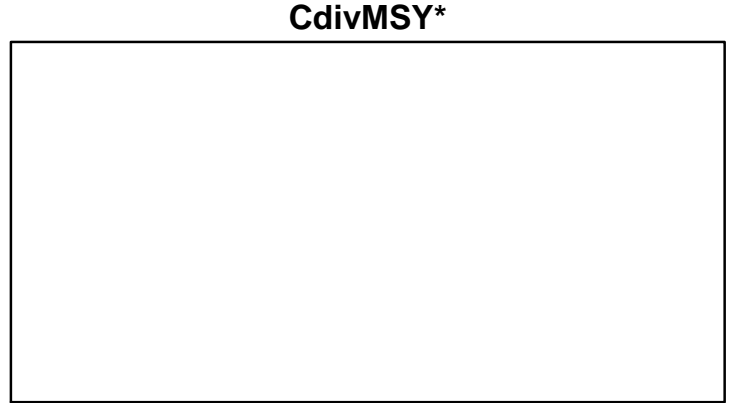
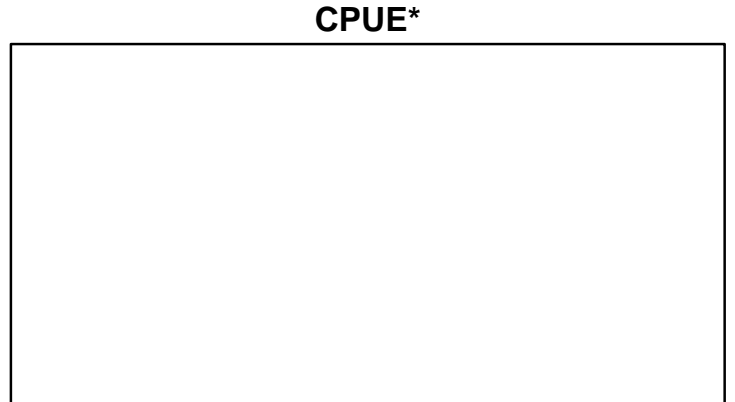
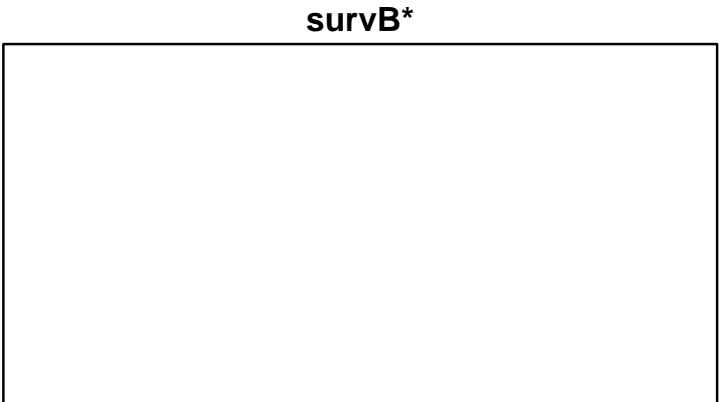
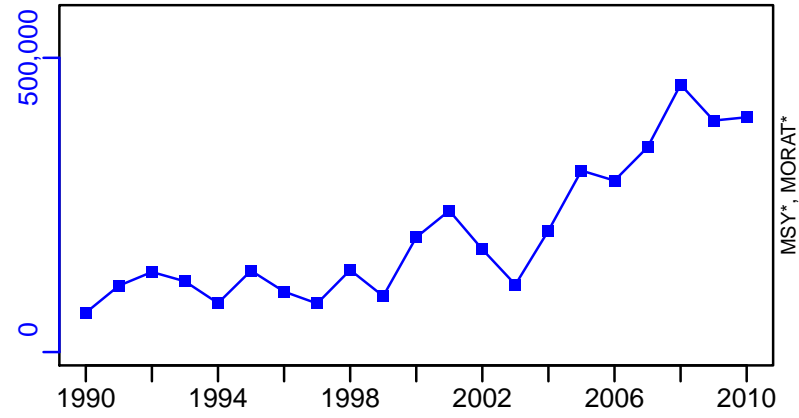
Recruits*



Cunene Horse Mackerel West Africa [CHMACKWA]

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

TAC*, Cpair*, Cadv*



Chub Mackerel West Africa [CMACKWA]

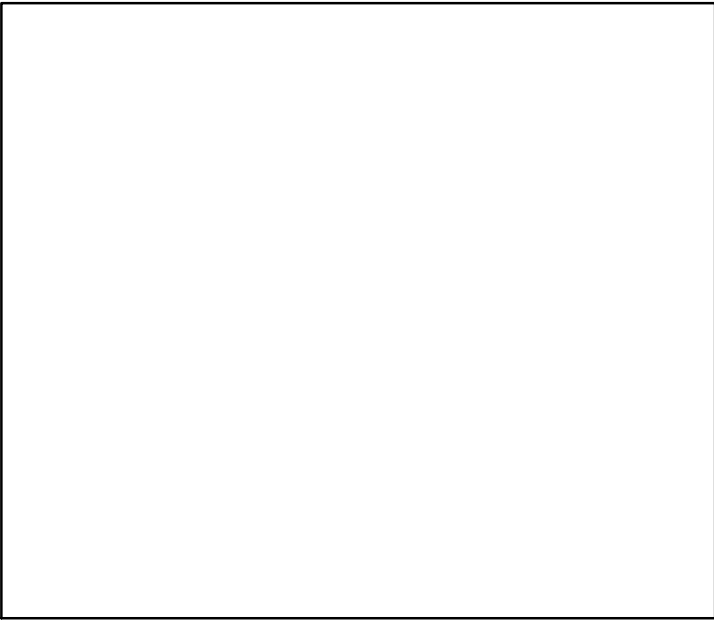
Metadata	
Scientific Name	Scomber japonicus
Current Assess ID	FAO-SPNWA-CMACKWA-1990-2010-CHING
Area	West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa
Asmts in RAM	2010

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	0.79	-	-
ER	ER-calc-ratio	2010	0.786	-	-
TC	TC-MT	2010	206,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	1.179		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Chub Mackerel West Africa [CMACKWA]

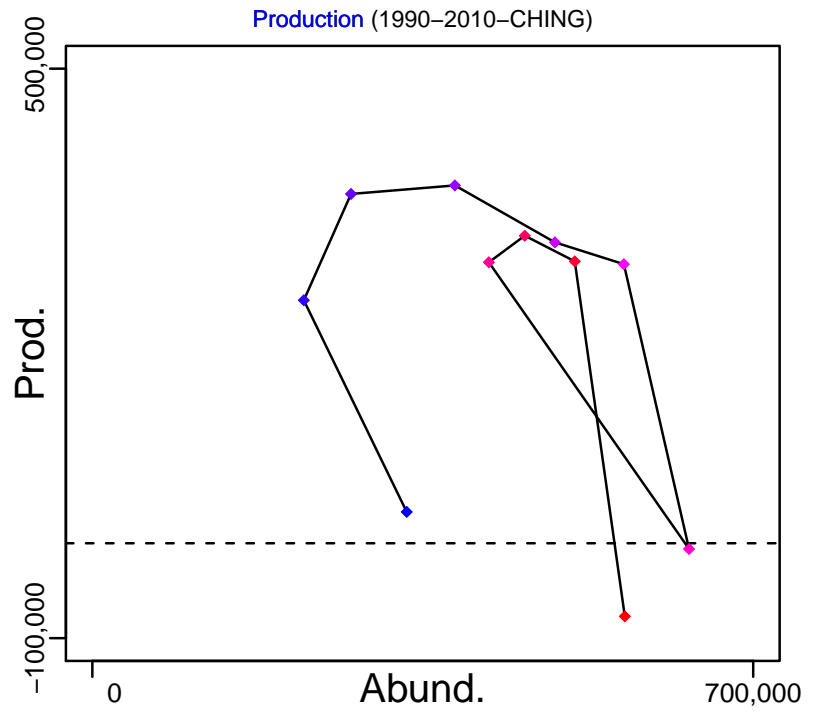
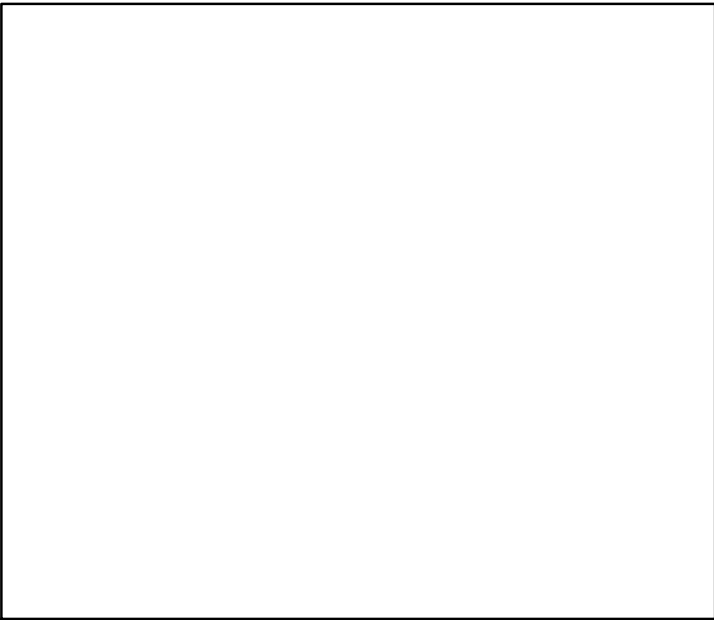
Kobe MSY*



Kobe MGT*



Spawner Recruit*

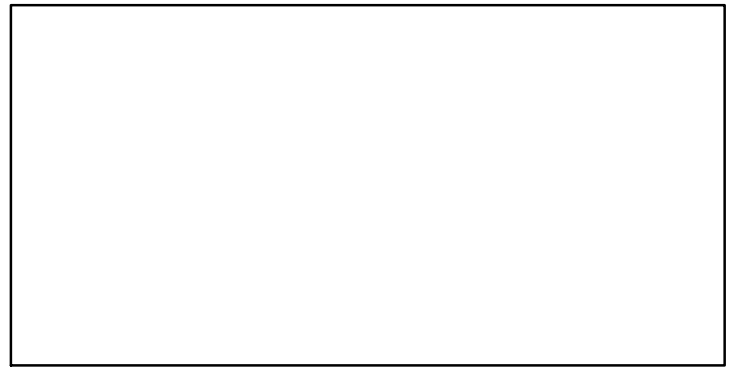
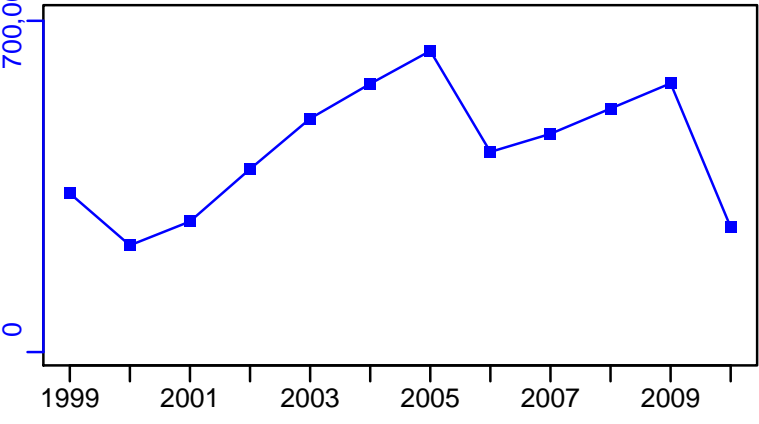


◆ Start Year ◆ End Year * No Data

Chub Mackerel West Africa [CMACKWA]

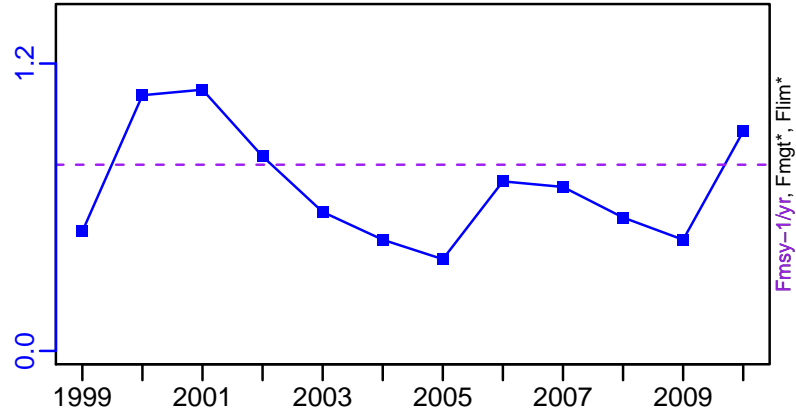
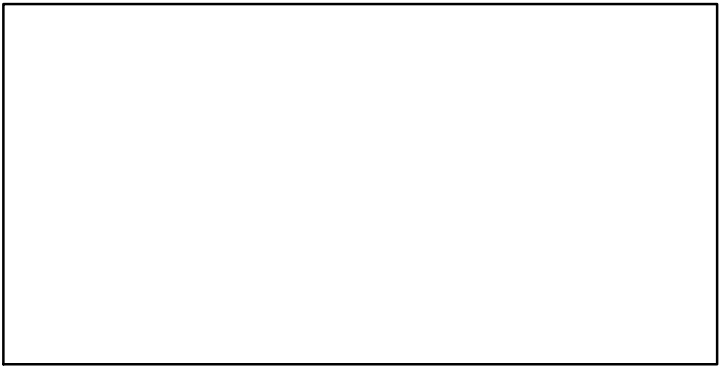
TB-MT (1990-2010-CHING)

SSB*



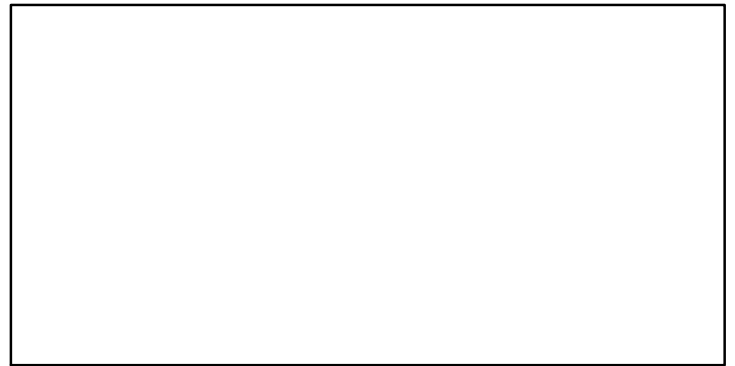
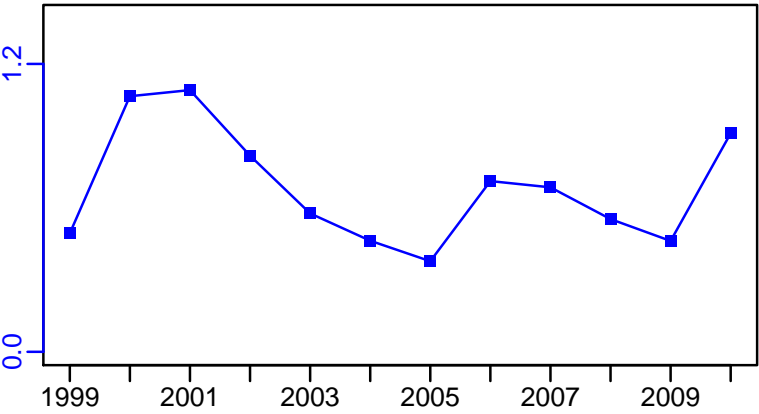
TN *

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



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

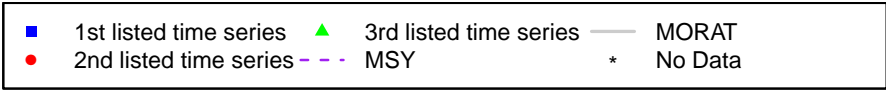
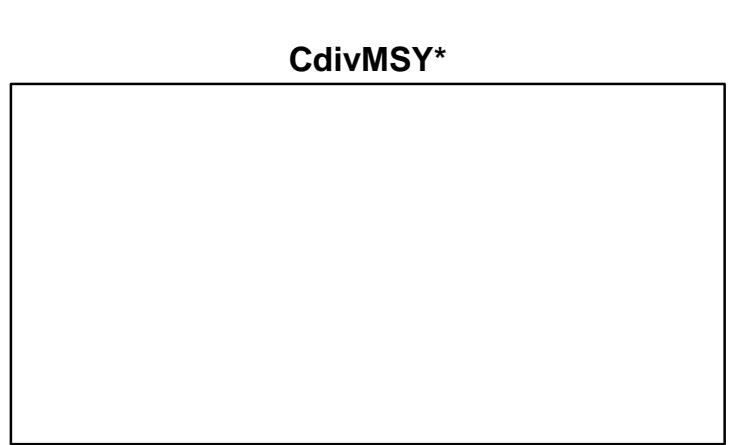
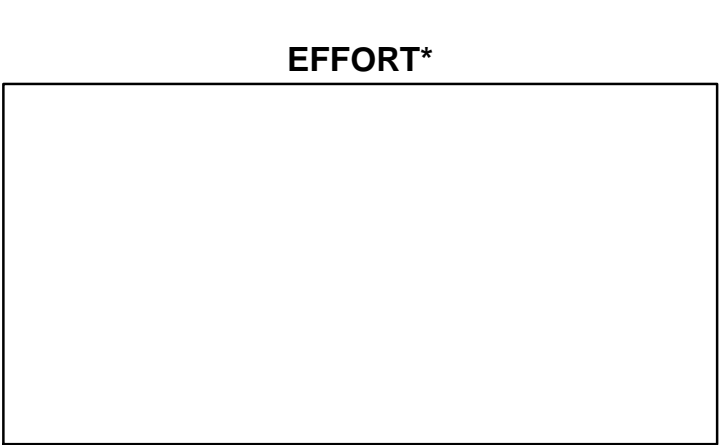
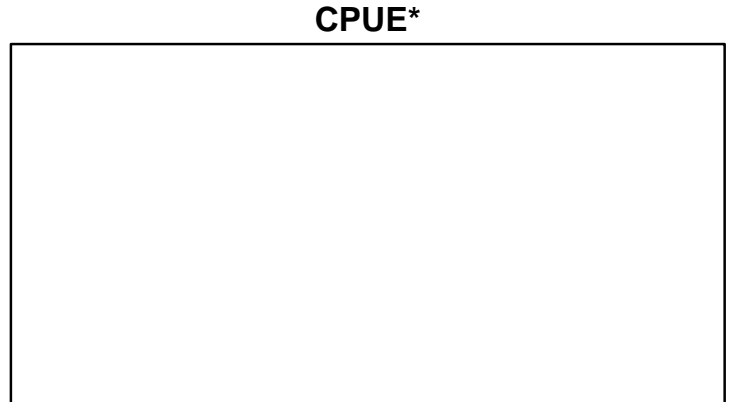
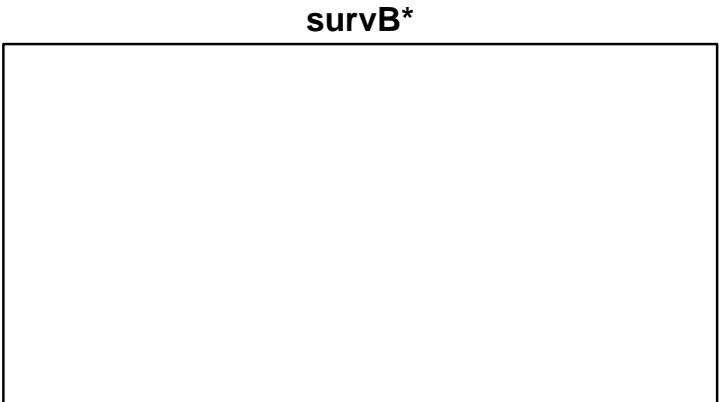
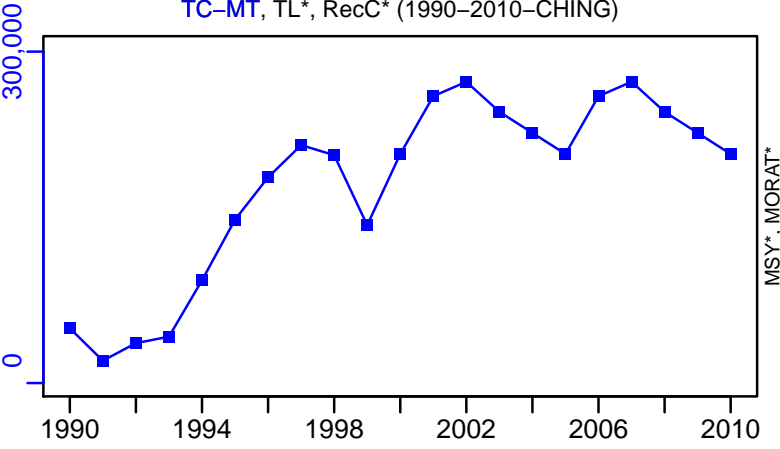
Recruits*



Chub Mackerel West Africa [CMACKWA]

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

TAC*, Cpair*, Cadv*



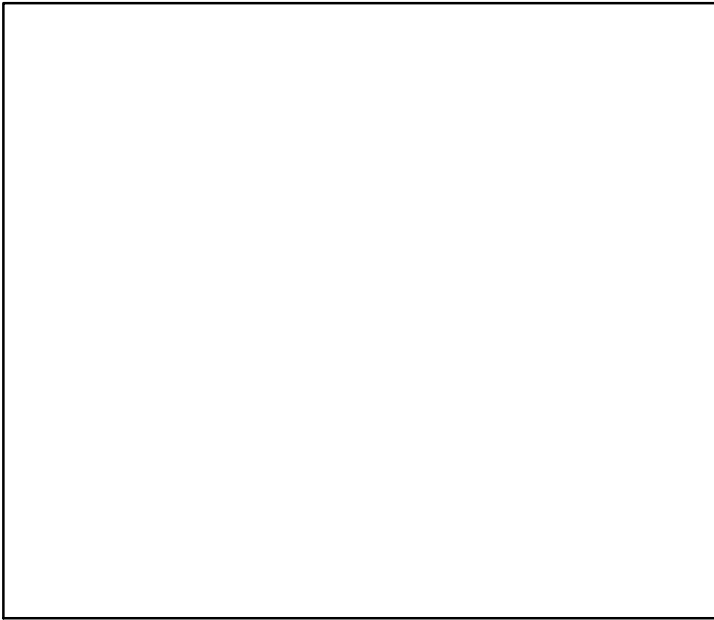
Croaker West Africa Subgroup 1 [CROAKSPPWASG1]

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	-	-	-		

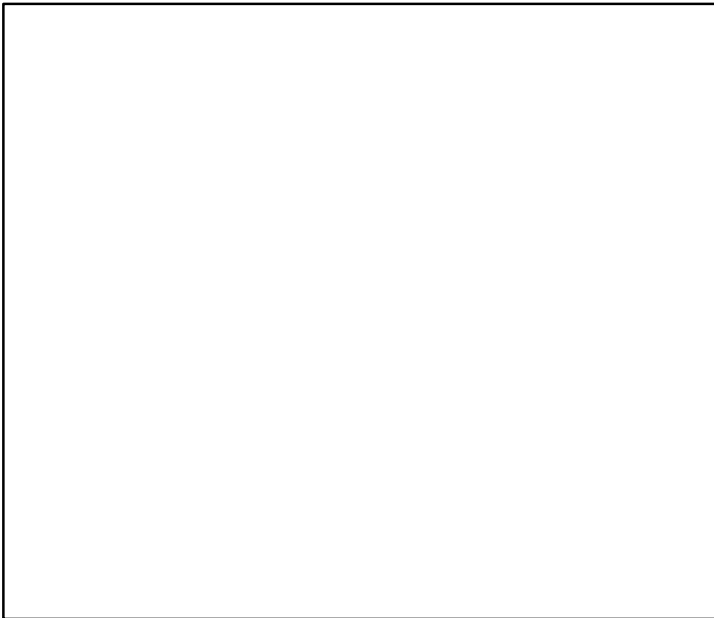
Kobe MSY*



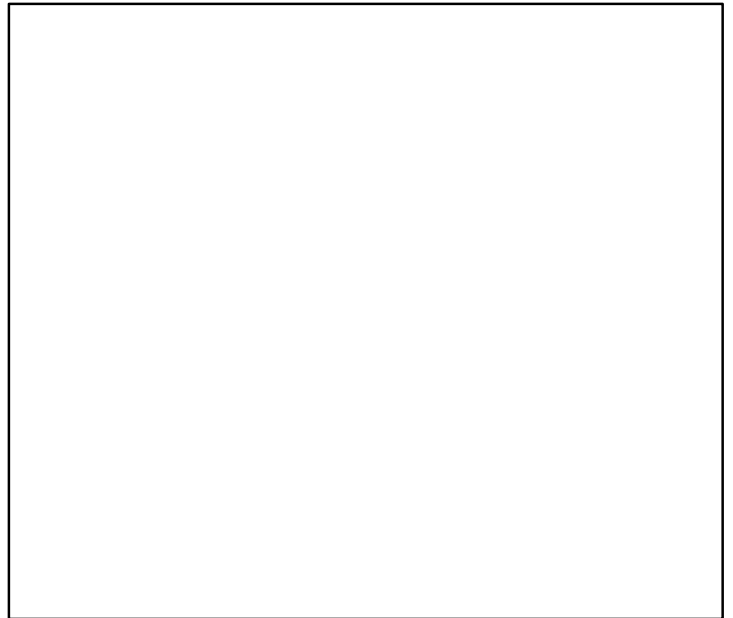
Kobe MGT*



Spawner Recruit*



Production*

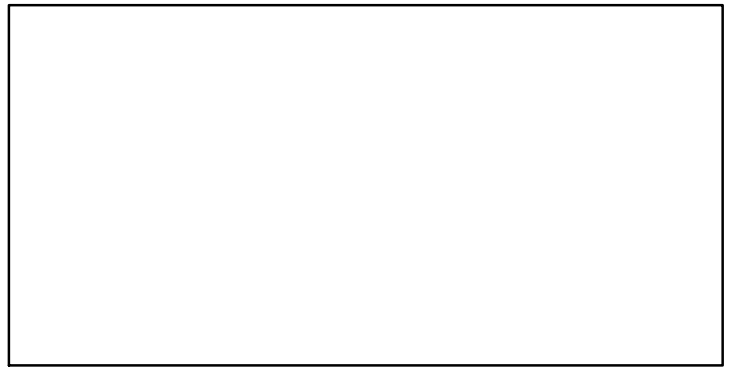
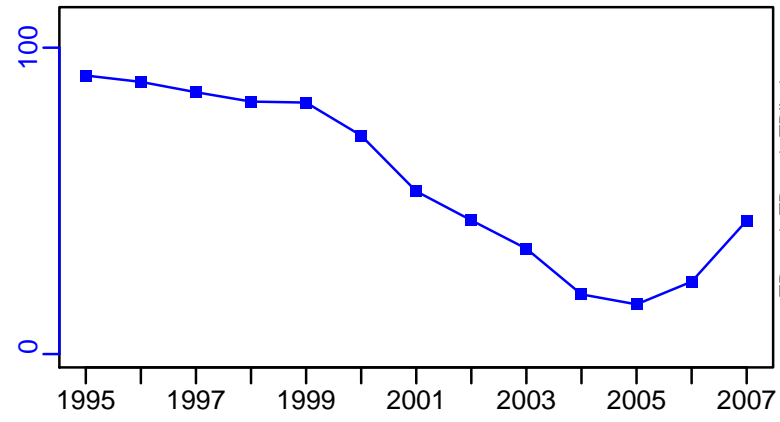


◆ Start Year ◆ End Year * No Data

Croaker West Africa Subgroup 1 [CROAKSPPWASG1]

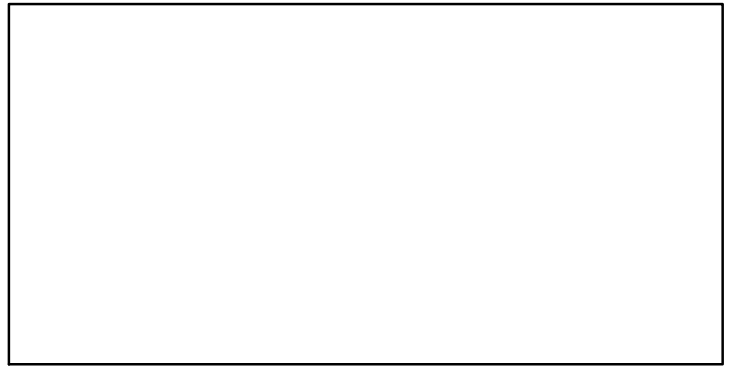
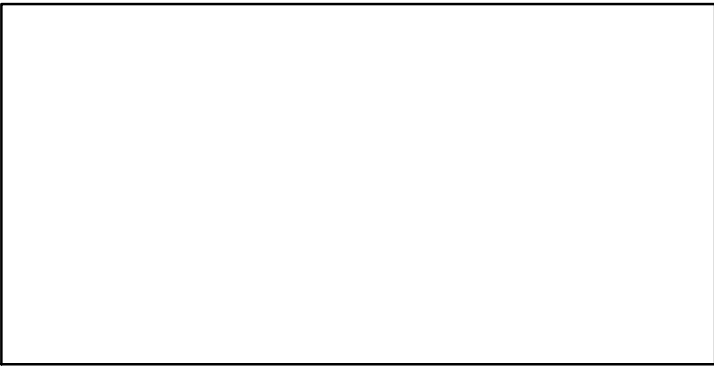
TB-index (1994-2007-CHING)

SSB*



TN *

F*



ER*

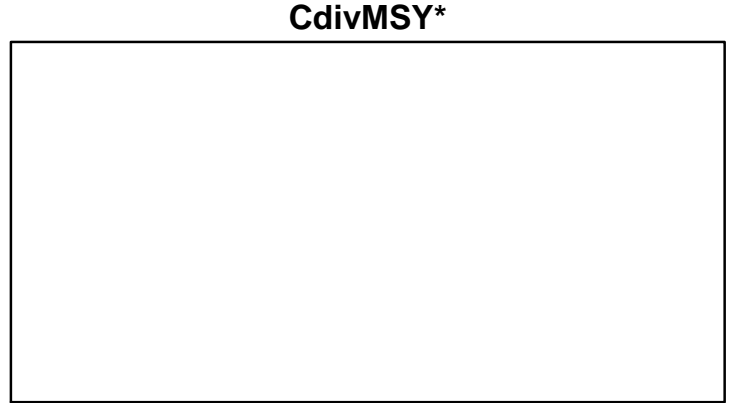
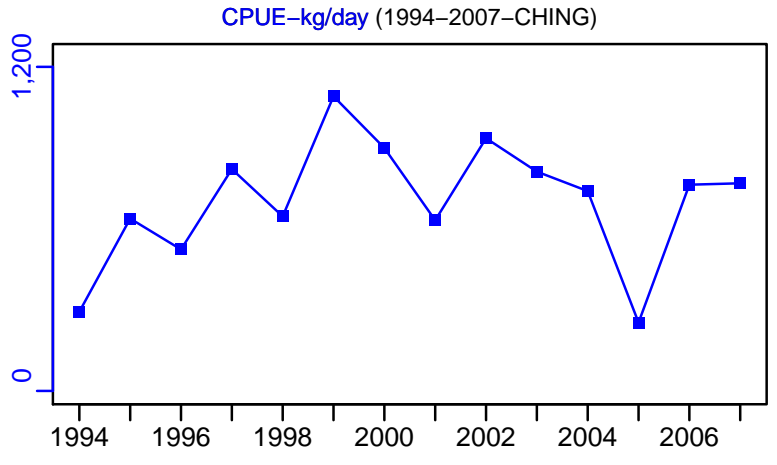
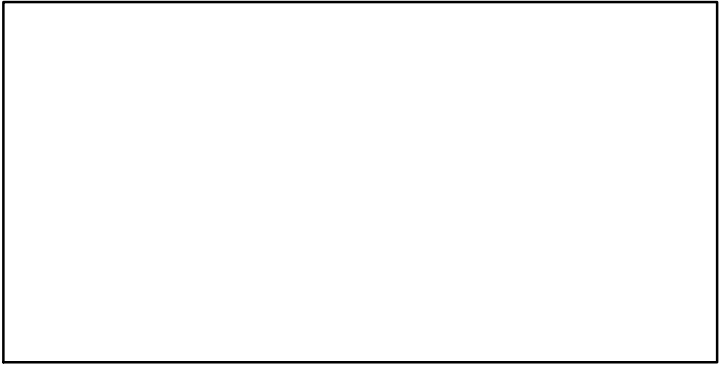
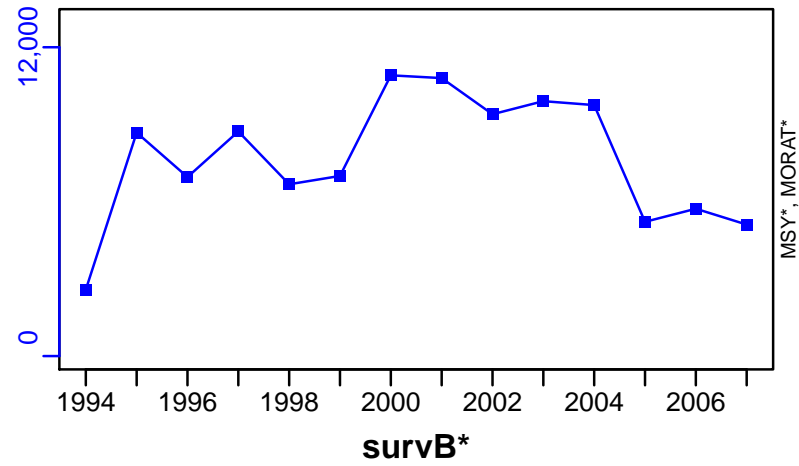
Recruits*



Croaker West Africa Subgroup 1 [CROAKSPPWASG1]

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

TAC*, Cpair*, Cadv*



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

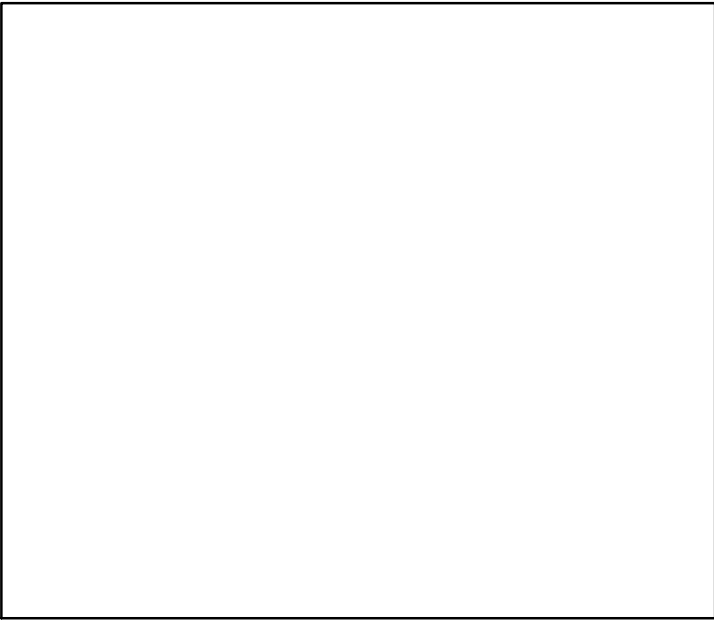
Croaker West Africa Subgroup 2 [CROAKSPPWASG2]

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	-	-	-		

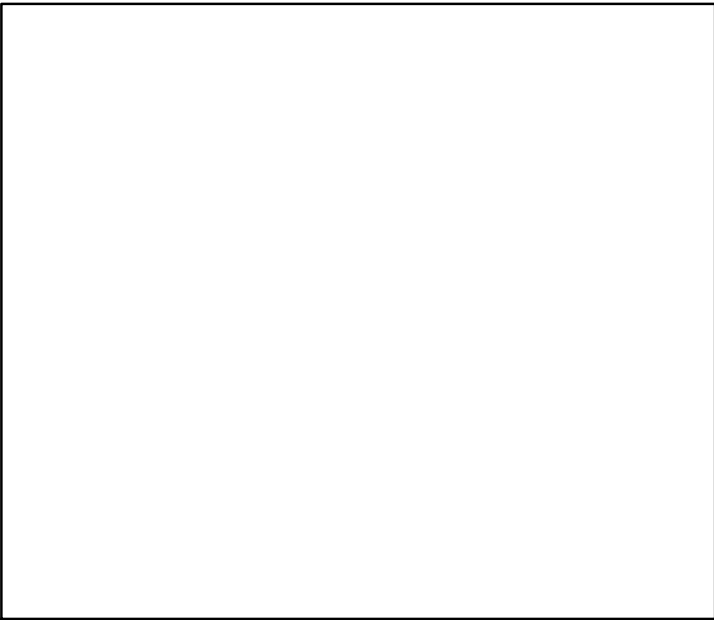
Kobe MSY*



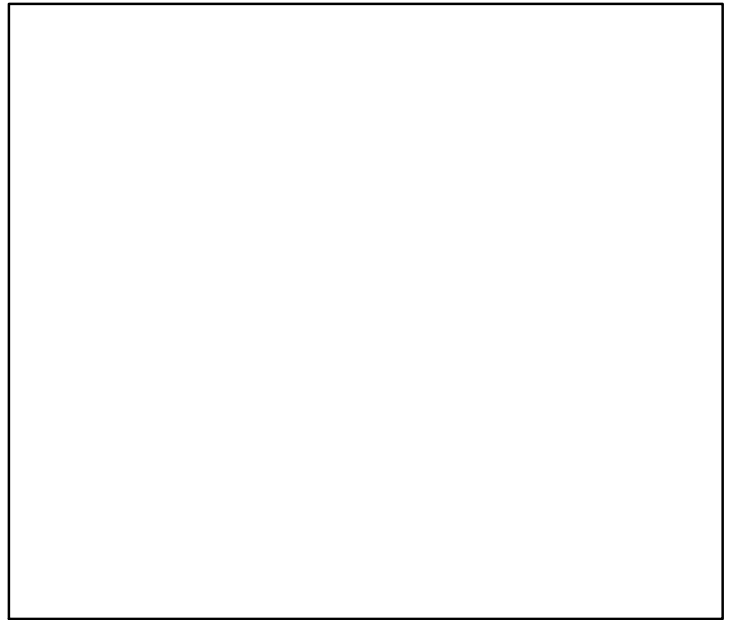
Kobe MGT*



Spawner Recruit*



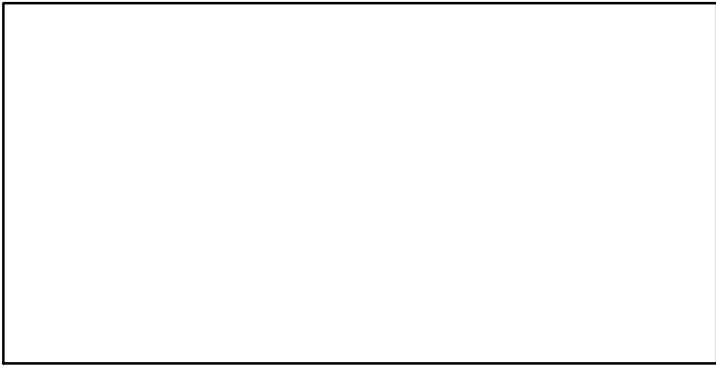
Production*



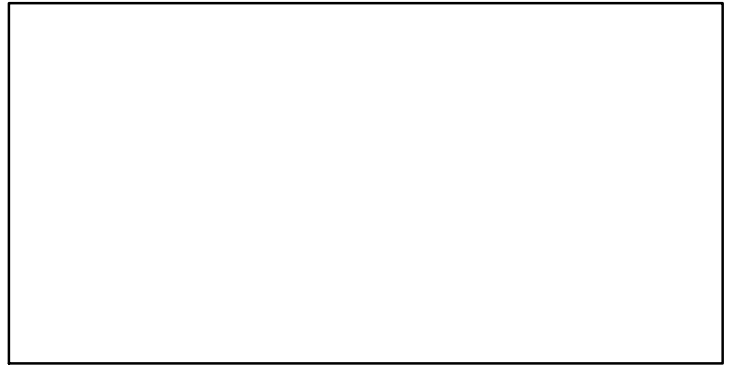
◆ Start Year ◆ End Year * No Data

Croaker West Africa Subgroup 2 [CROAKSPPWASG2]

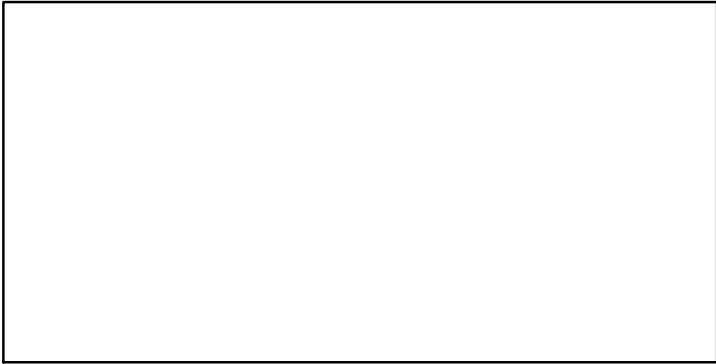
TB*



SSB*



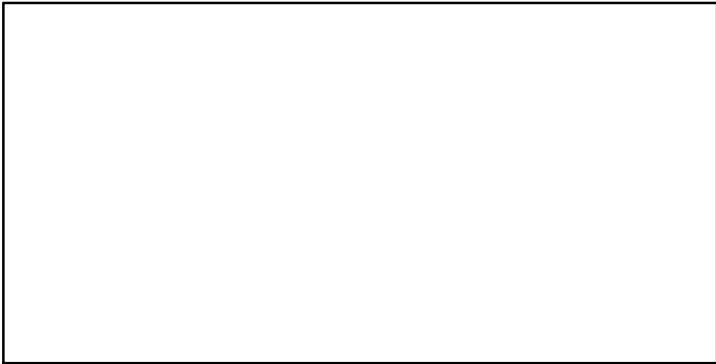
TN *



F*



ER*



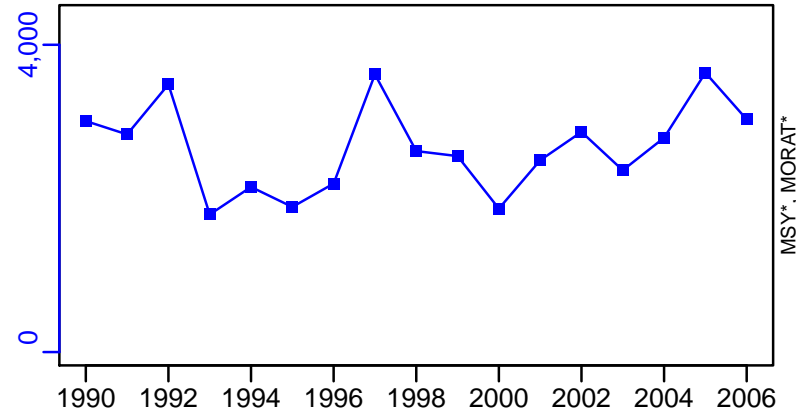
Recruits*



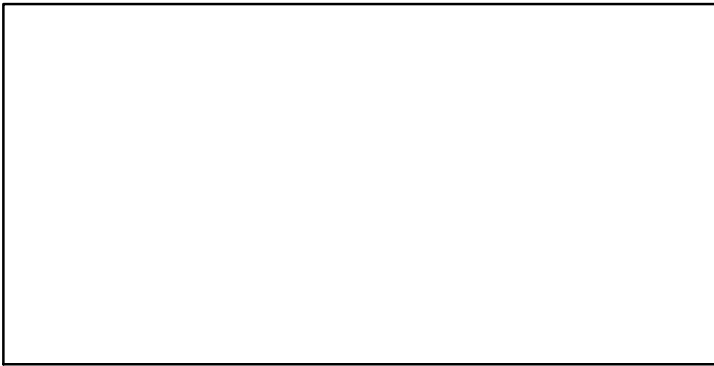
Croaker West Africa Subgroup 2 [CROAKSPPWASG2]

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

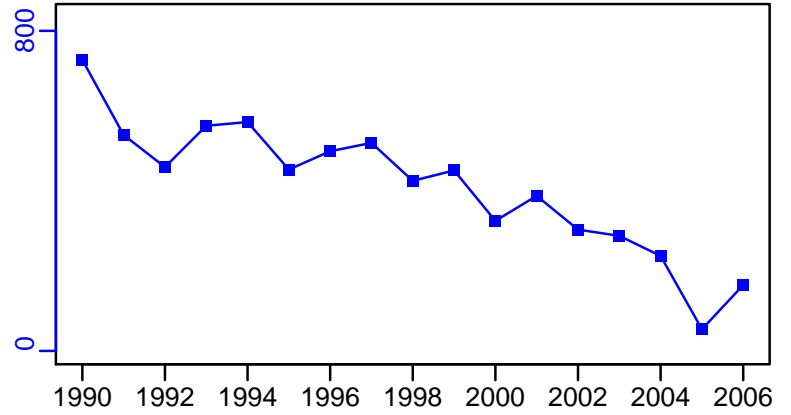
TAC*, Cpair*, Cadv*



survB*



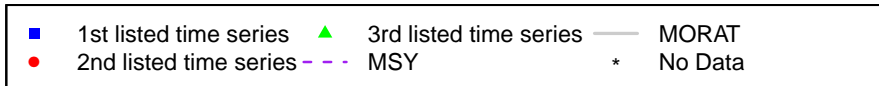
CPUE-kg/day (1990-2006-CHING)



EFFORT*



CdivMSY*



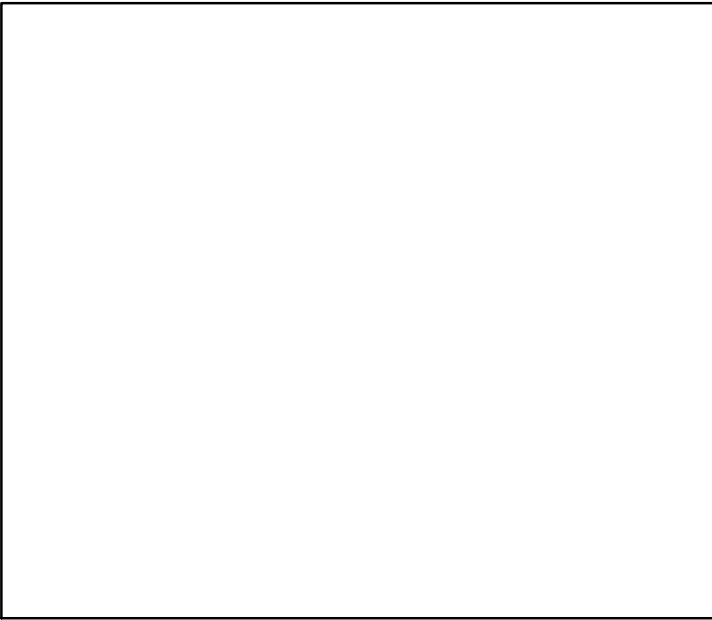
Croaker West Africa Subgroup 3 [CROAKSPPWASG3]

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	-	-	-		

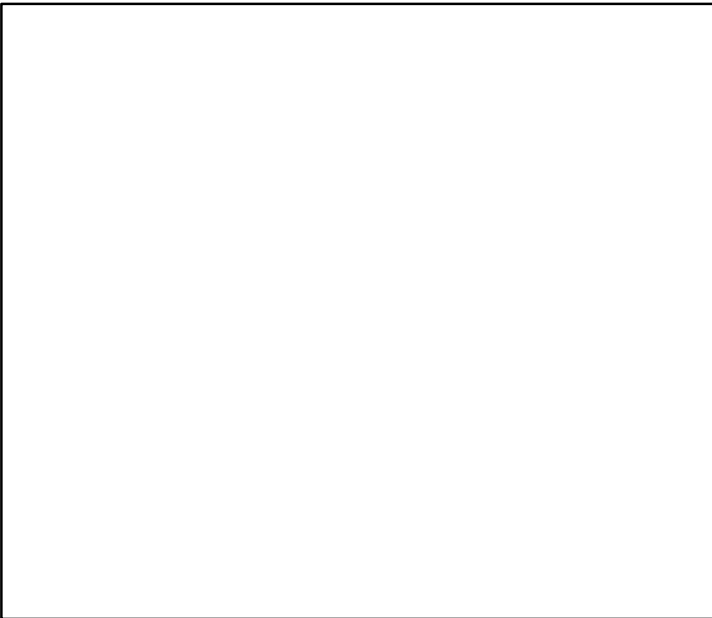
Kobe MSY*



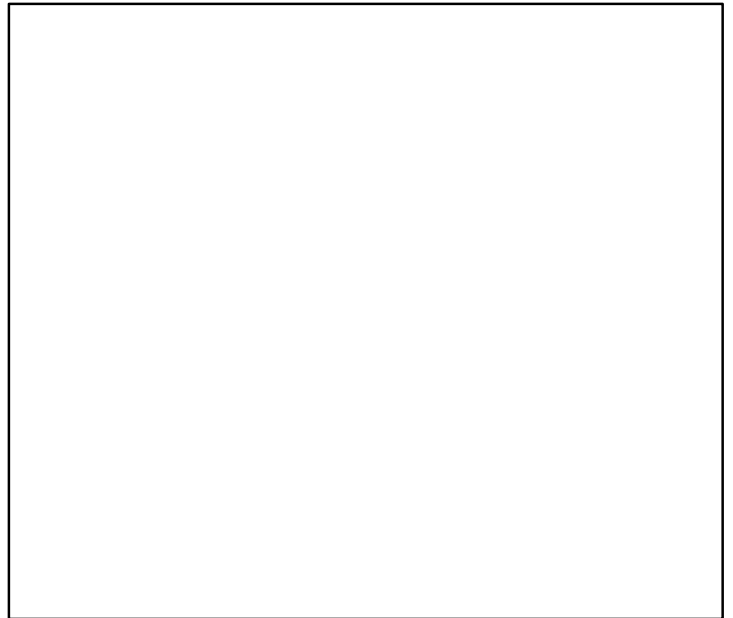
Kobe MGT*



Spawner Recruit*



Production*

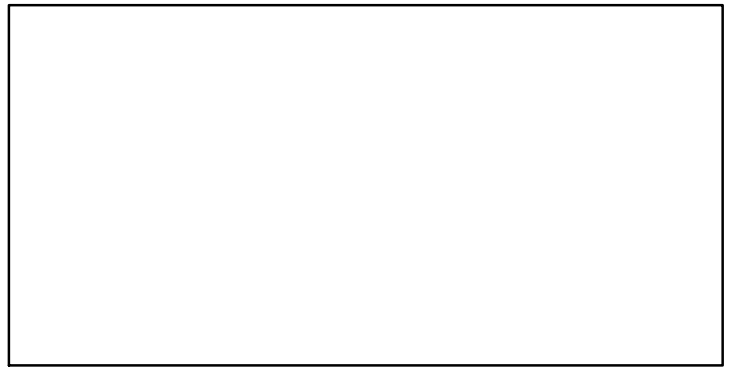
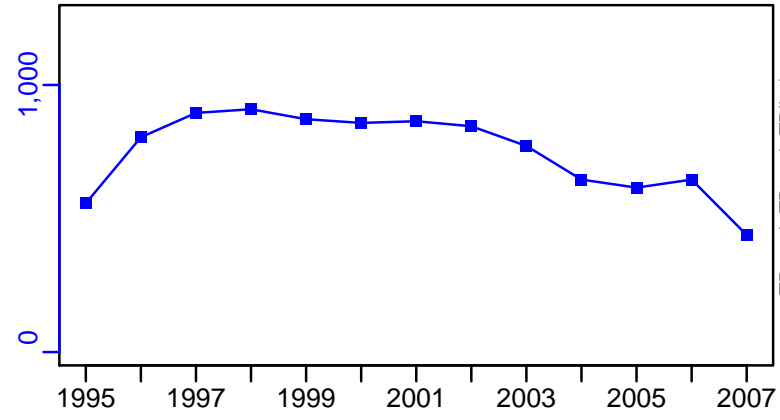


◆ Start Year ◆ End Year * No Data

Croaker West Africa Subgroup 3 [CROAKSPPWASG3]

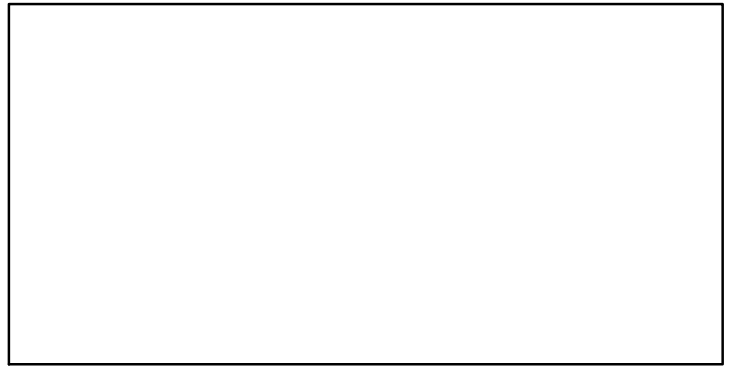
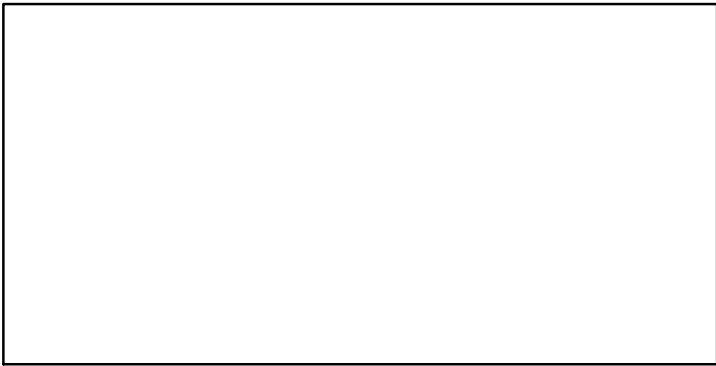
TB-index (1990-2007-CHING)

SSB*



TN *

F*



ER*

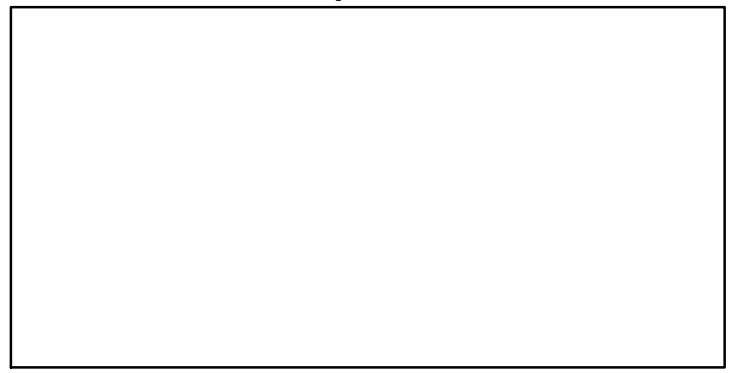
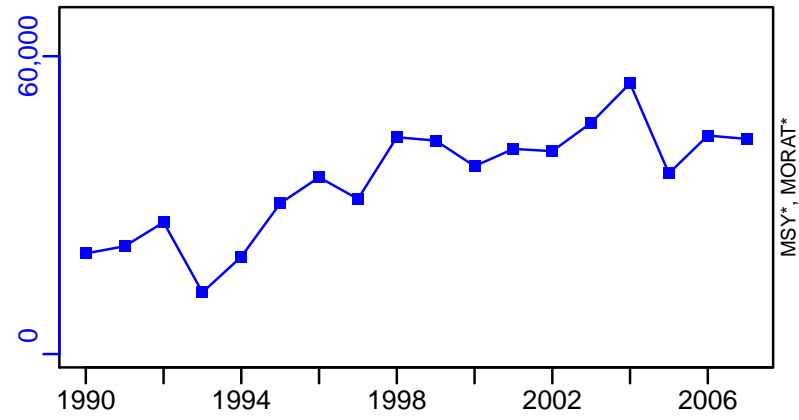
Recruits*



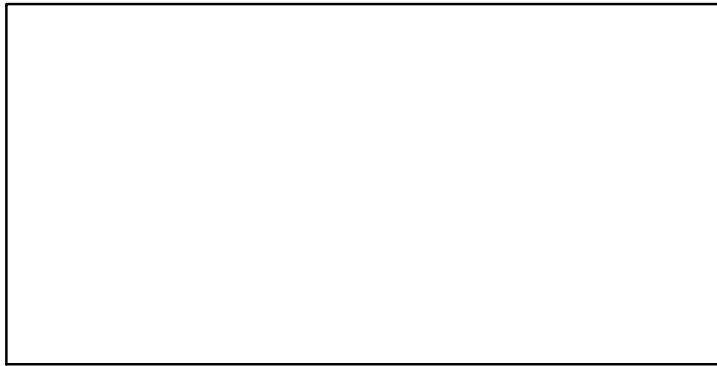
Croaker West Africa Subgroup 3 [CROAKSPPWASG3]

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

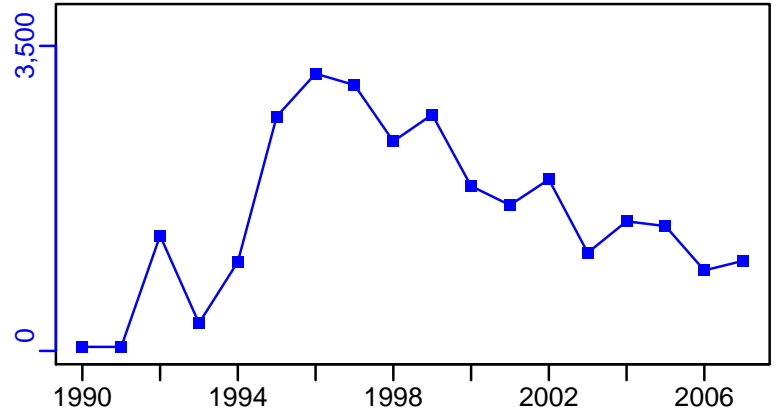
TAC*, Cpair*, Cadv*



survB*



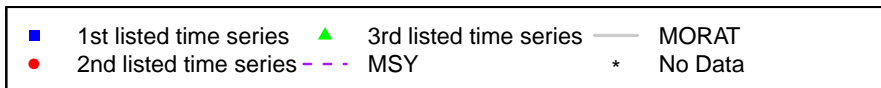
CPUE-kg/day (1990-2007-CHING)



EFFORT*



CdivMSY*



Coastal Shrimp West Africa [CSHRIMPWA]

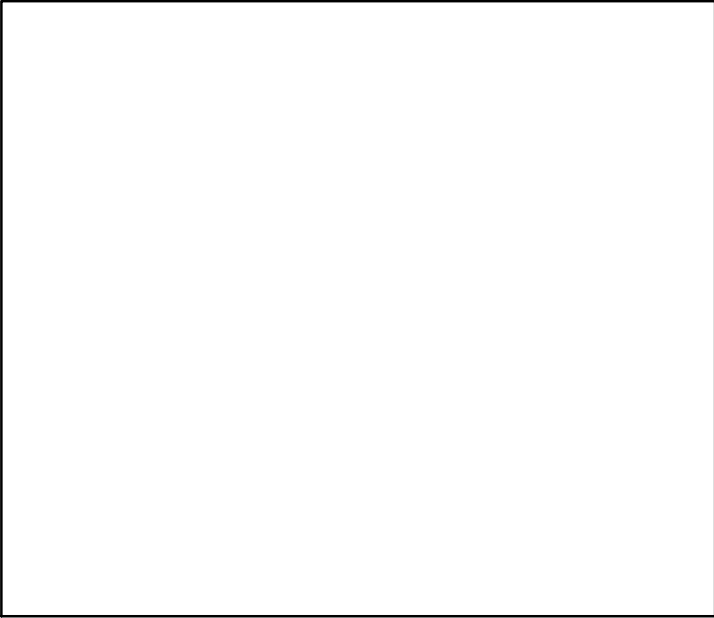
Metadata	
Scientific Name	Penaeus spp
Current Assess ID	FAO-DRSS-CSHRIMPWA-1990-2007-CHING
Area	West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South
Asmts in RAM	2007

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

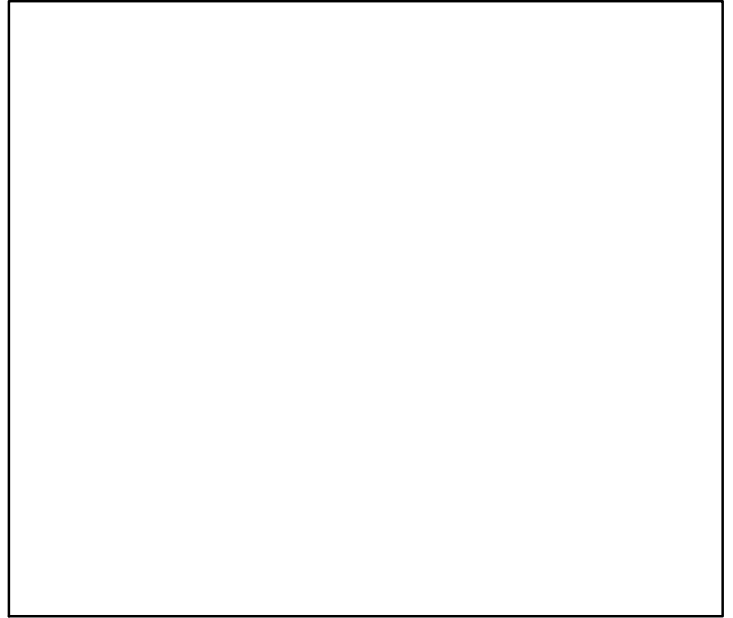
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	6580		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Coastal Shrimp West Africa [CSHRIMPWA]

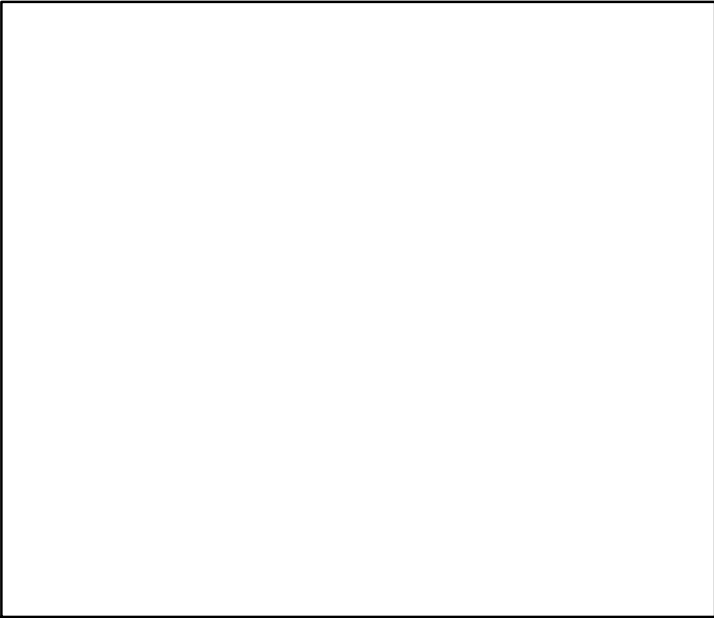
Kobe MSY*



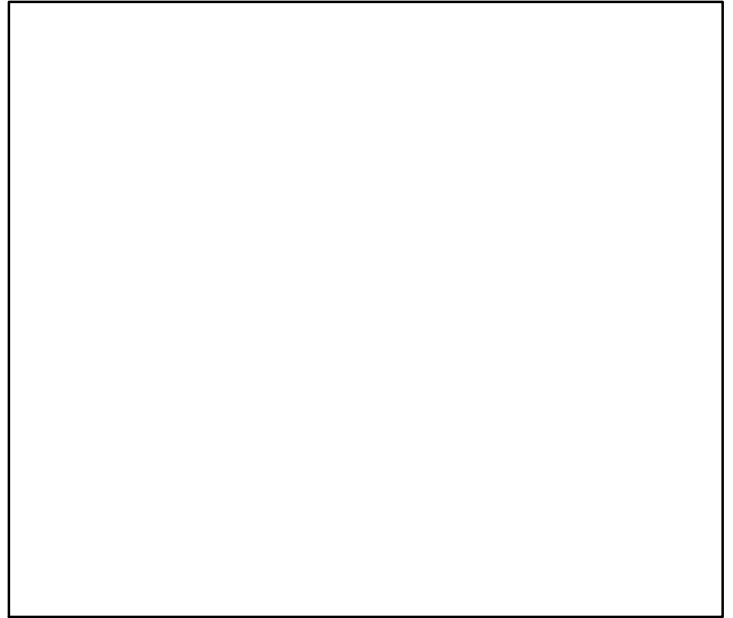
Kobe MGT*



Spawner Recruit*



Production*



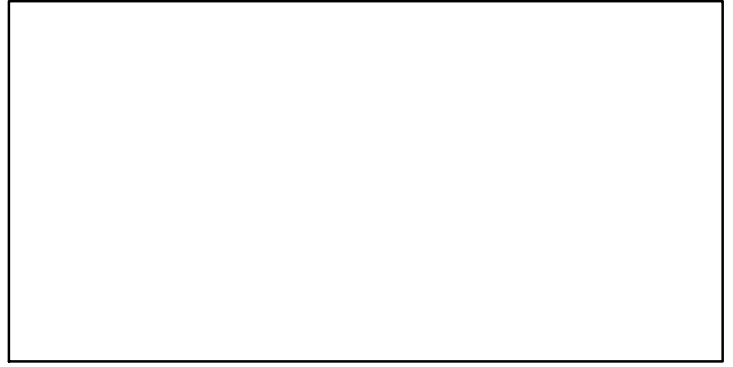
◆ Start Year ◆ End Year * No Data

Coastal Shrimp West Africa [CSHRIMPWA]

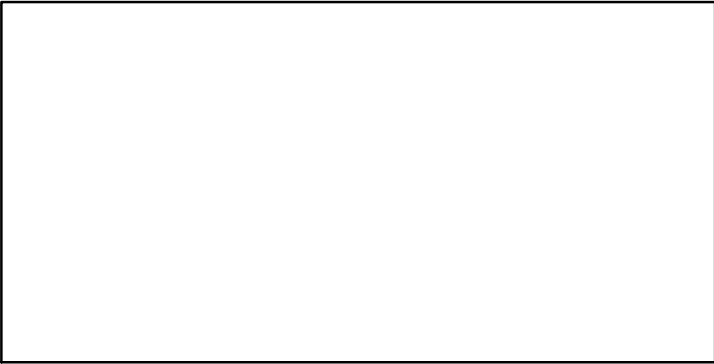
TB*



SSB*



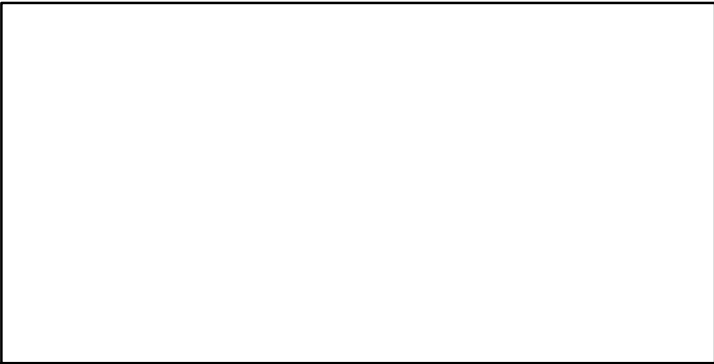
TN *



F*



ER*



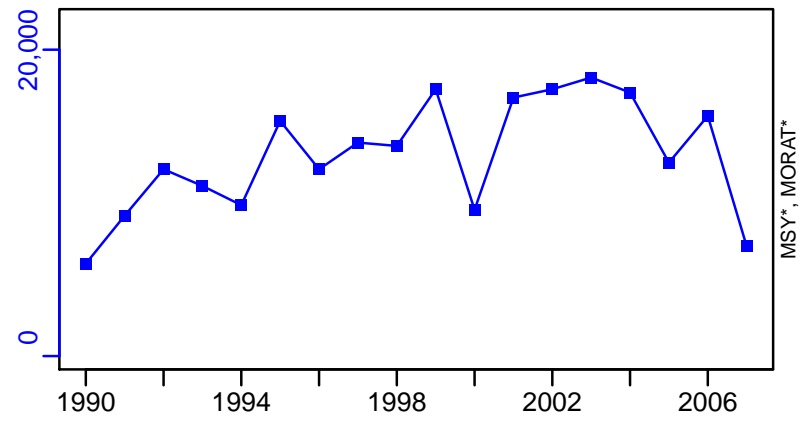
Recruits*



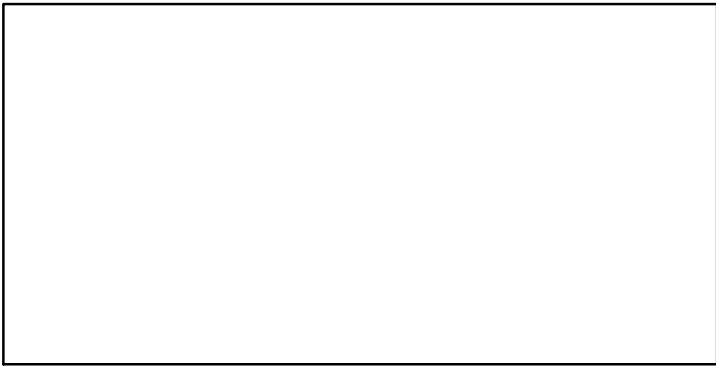
Coastal Shrimp West Africa [CSHRIMPWA]

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

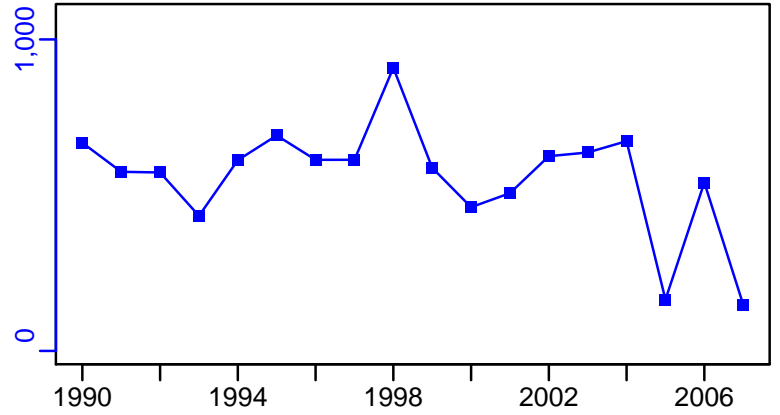
TAC*, Cpair*, Cadv*



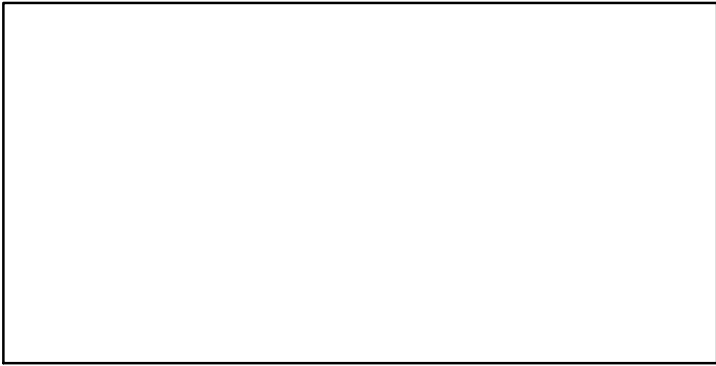
survB*



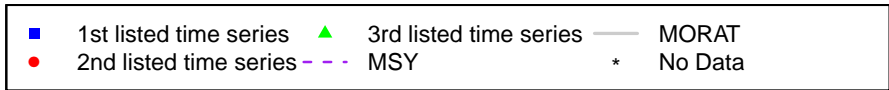
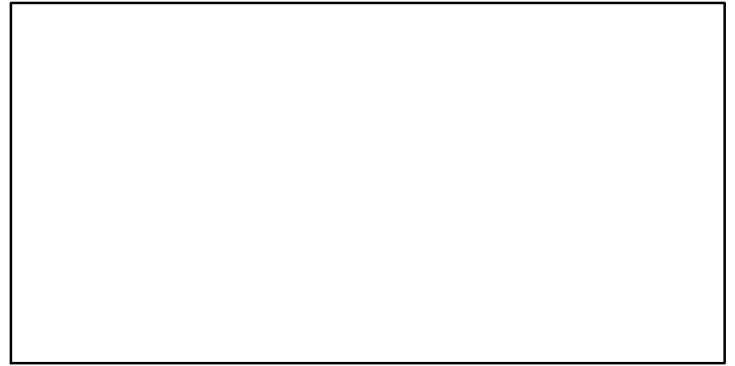
CPUE-kg/day (1990-2007-CHING)



EFFORT*



CdivMSY*



Cuttlefish West Africa [CUTTLEWA]

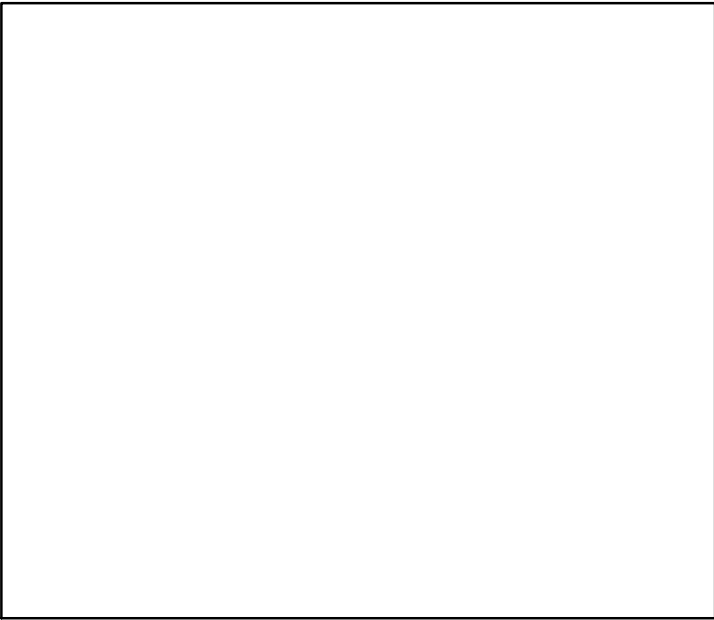
Metadata	
Scientific Name	Sepia spp
Current Assess ID	FAO-DRSS-CUTTLEWA-1990-2007-CHING
Area	West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South
Asmts in RAM	2007

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

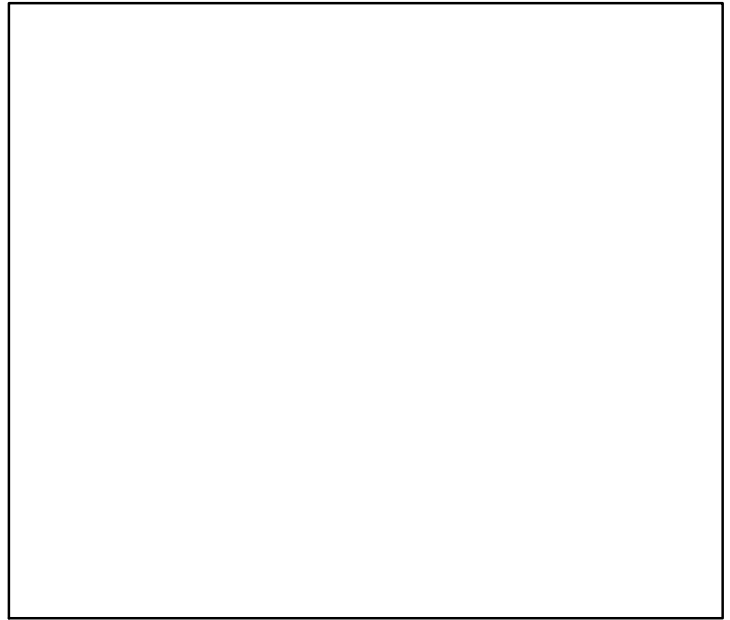
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	242	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	3780		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt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

Cuttlefish West Africa [CUTTLEWA]

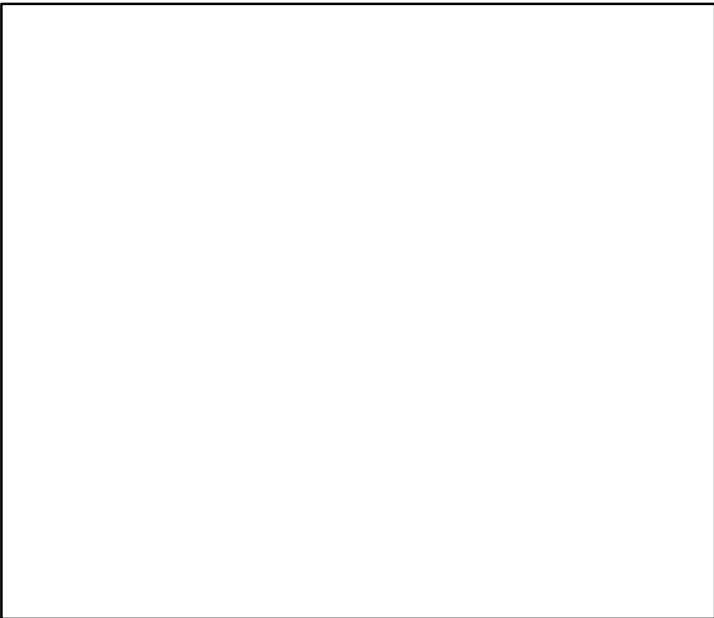
Kobe MSY*



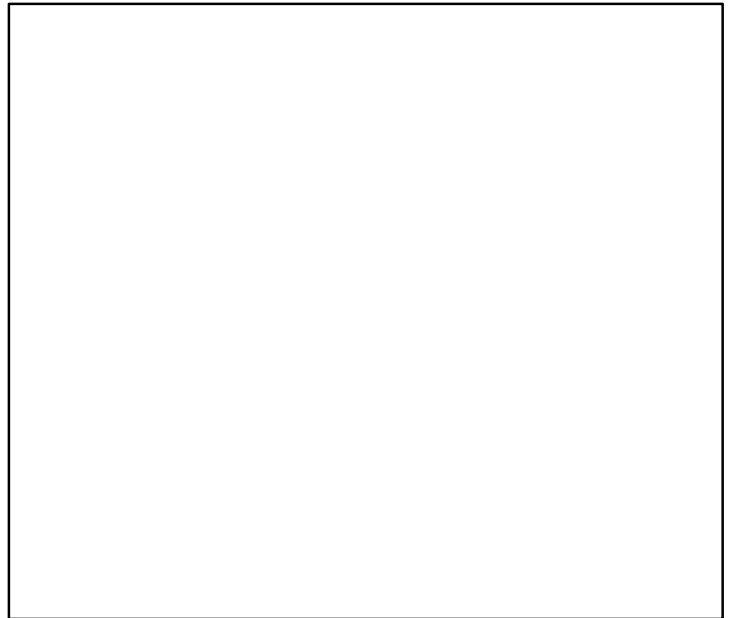
Kobe MGT*



Spawner Recruit*



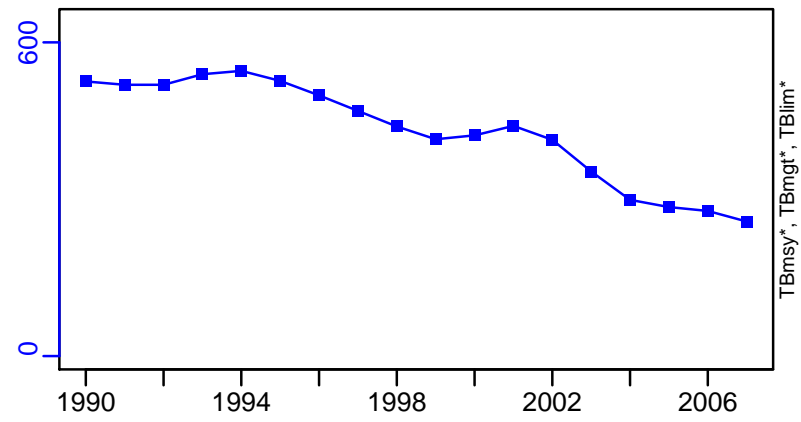
Production*



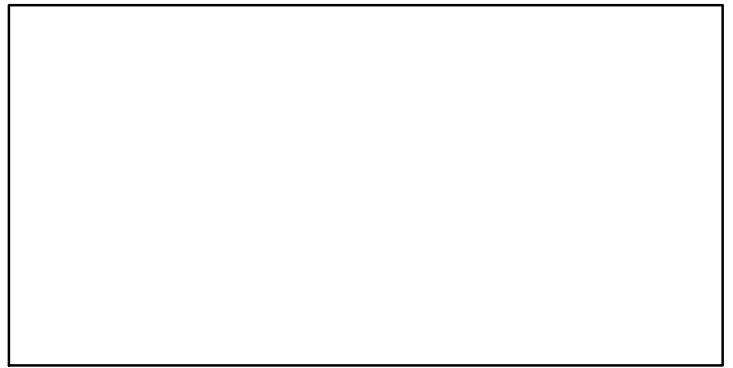
◆ Start Year ◆ End Year * No Data

Cuttlefish West Africa [CUTTLEWA]

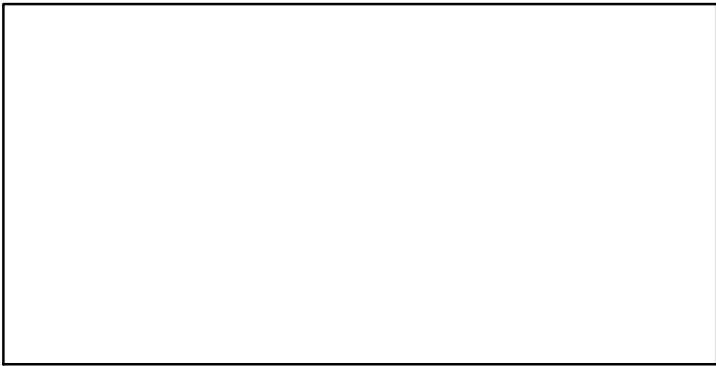
TB-index (1990-2007-CHING)



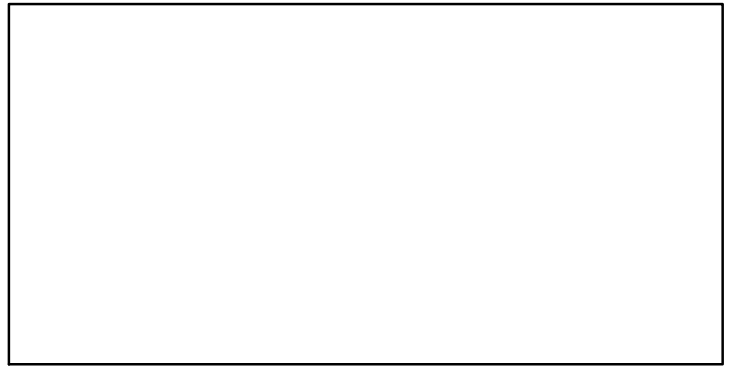
SSB*



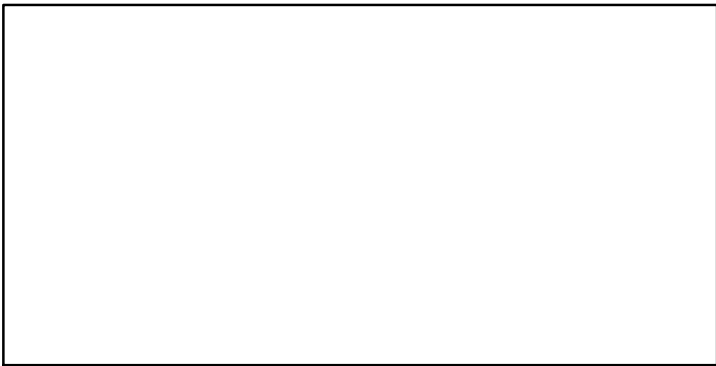
TN *



F*



ER*



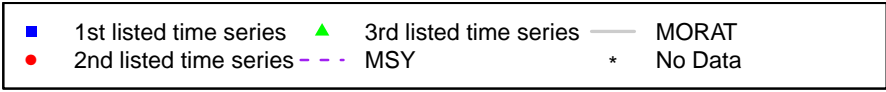
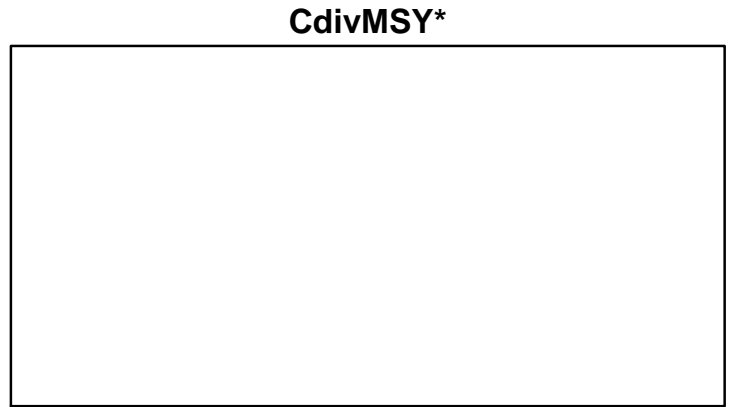
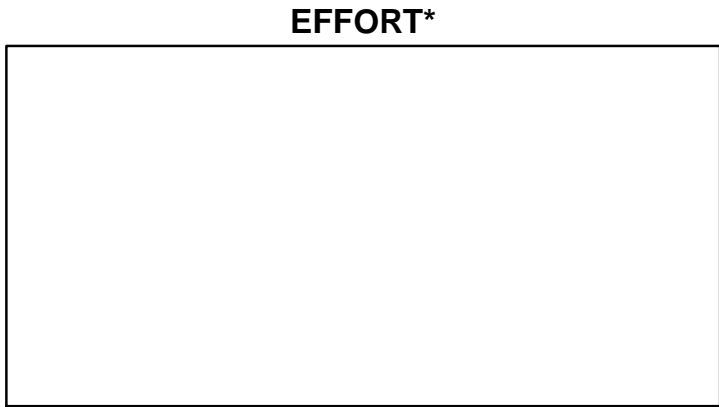
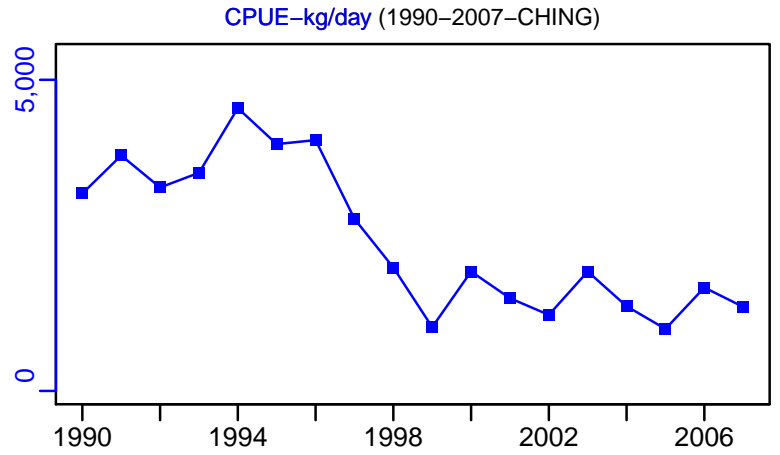
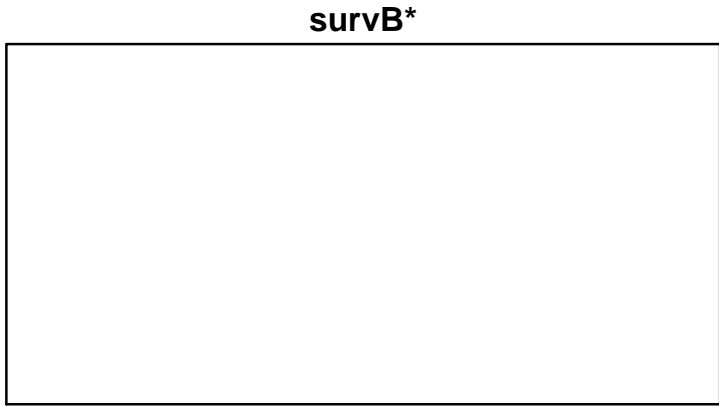
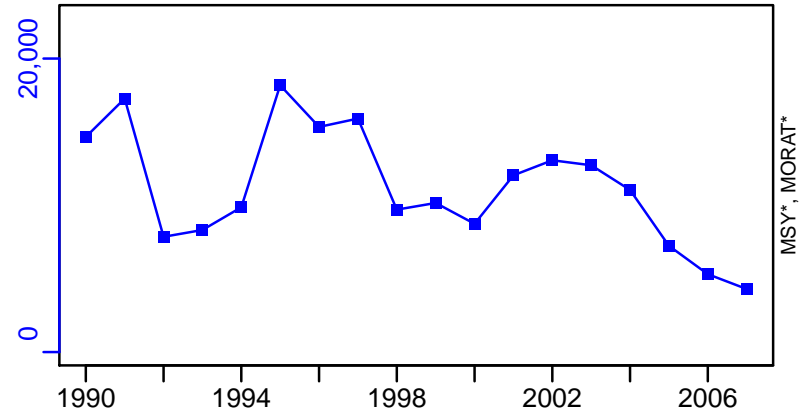
Recruits*



Cuttlefish West Africa [CUTTLEWA]

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

TAC*, Cpair*, Cadv*



Deepwater Rose Shrimp West Africa [DRSHRIMPWA]

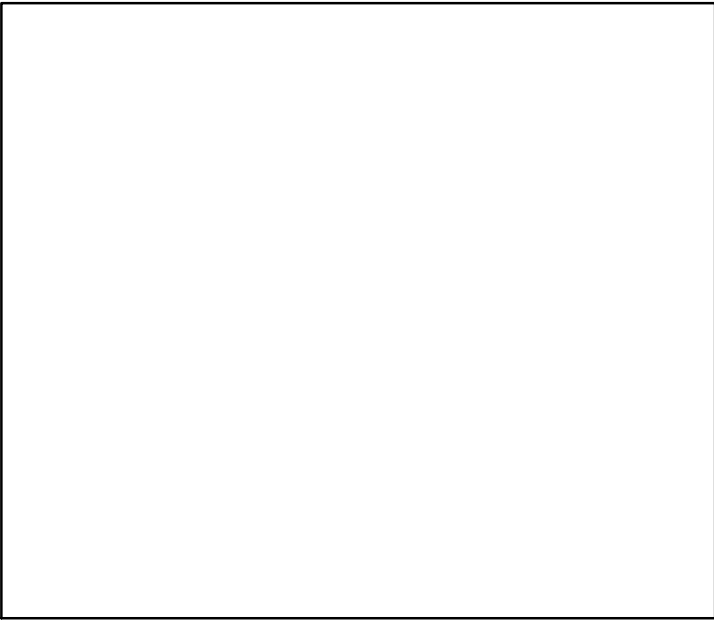
Metadata	
Scientific Name	Parapenaeus longirostris
Current Assess ID	FAO-DRSS-DRSHRIMPWA-1990-2007-CHING
Area	West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South
Asmts in RAM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

Deepwater Rose Shrimp West Africa [DRSHRIMPWA]

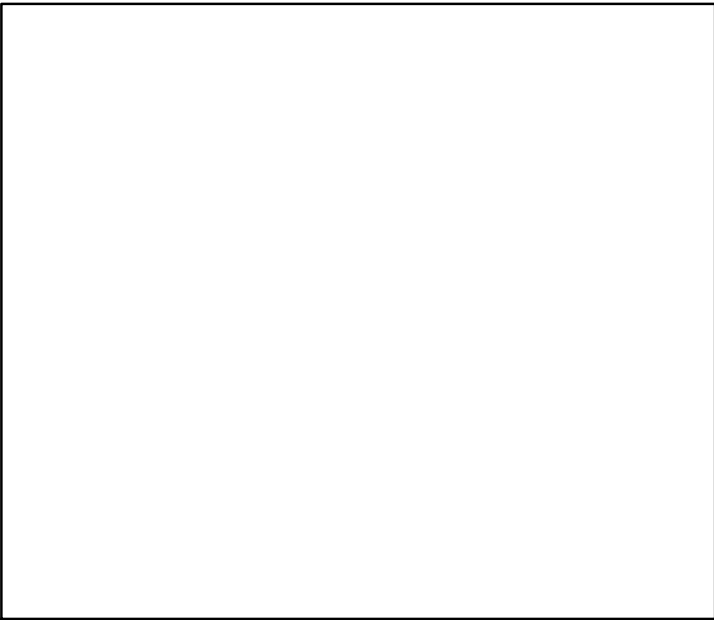
Kobe MSY*



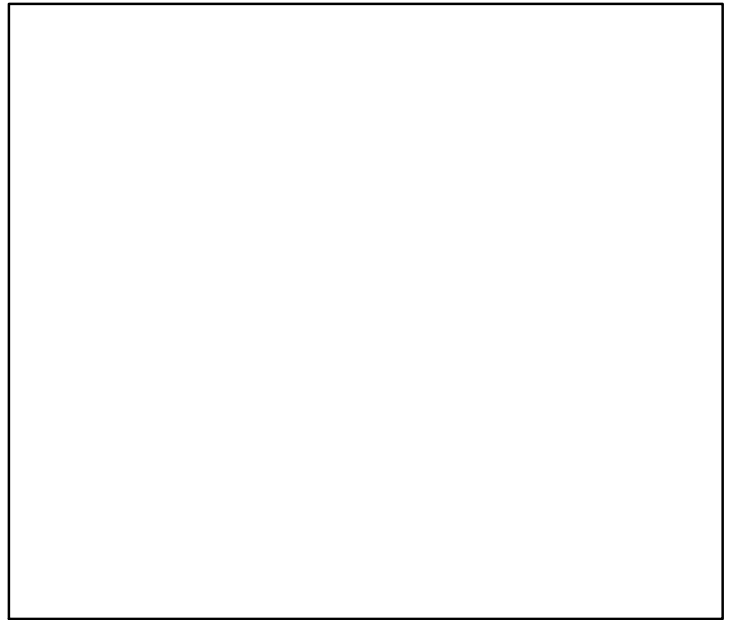
Kobe MGT*



Spawner Recruit*



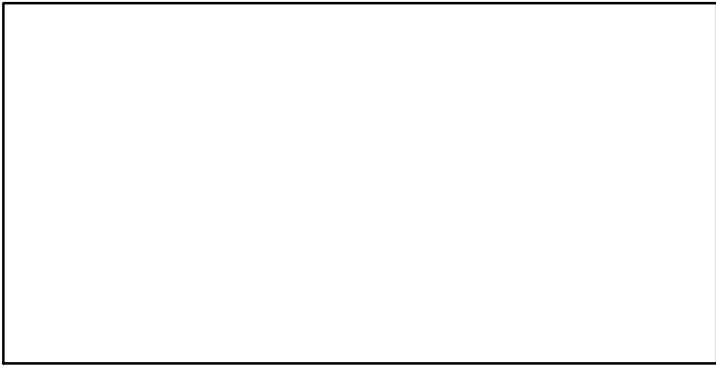
Production*



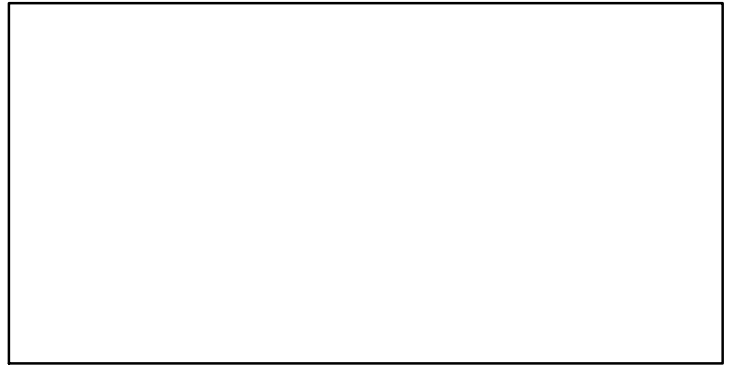
◆ Start Year ◆ End Year * No Data

Deepwater Rose Shrimp West Africa [DRSHRIMPWA]

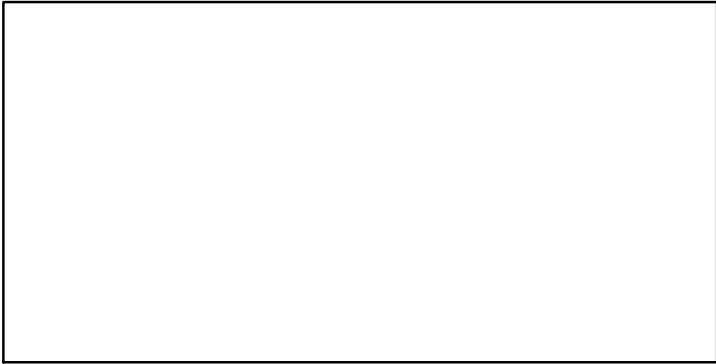
TB*



SSB*



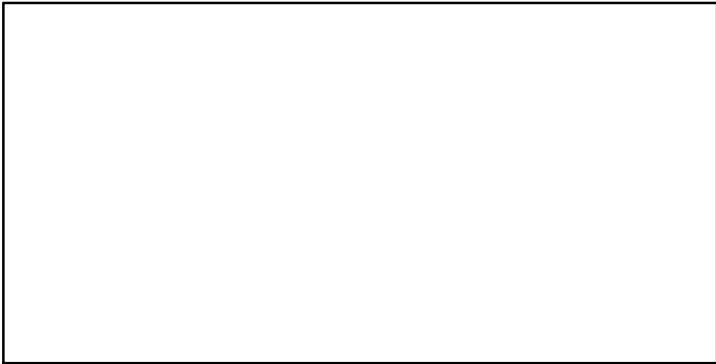
TN *



F*



ER*



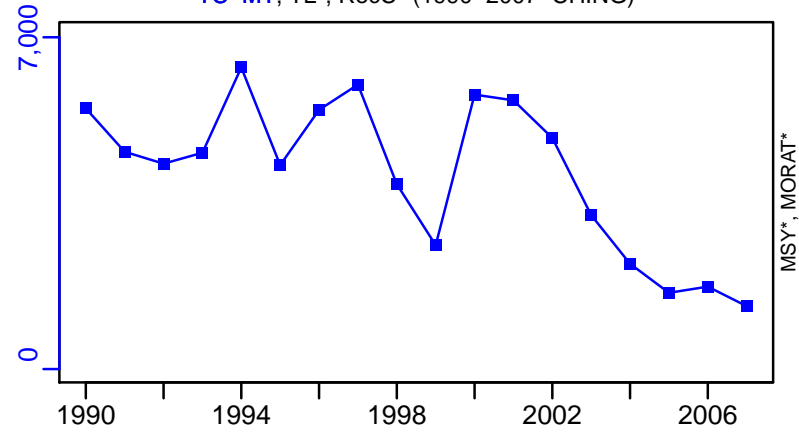
Recruits*



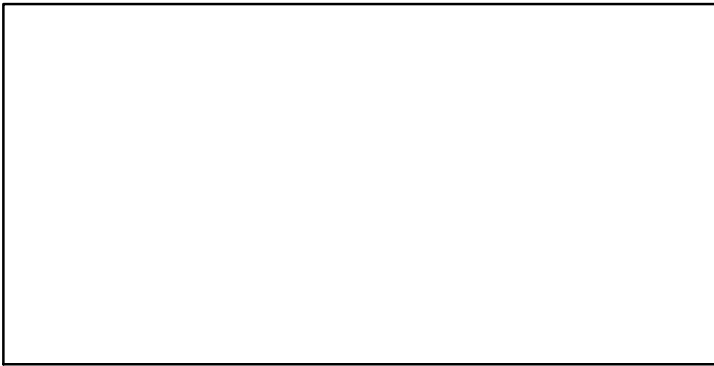
Deepwater Rose Shrimp West Africa [DRSHRIMPWA]

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

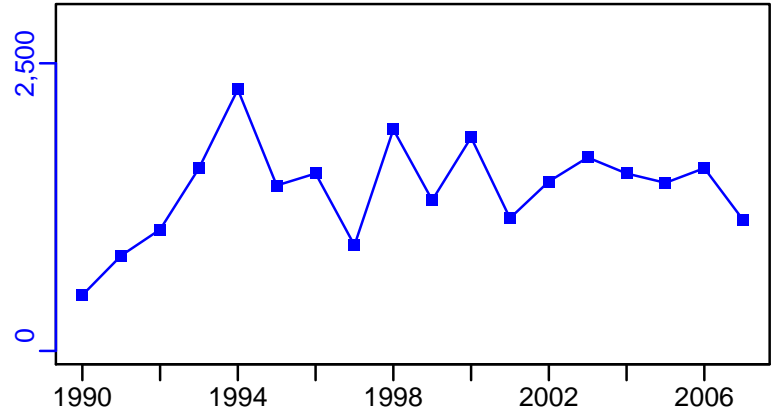
TAC*, Cpair*, Cadv*



survB*



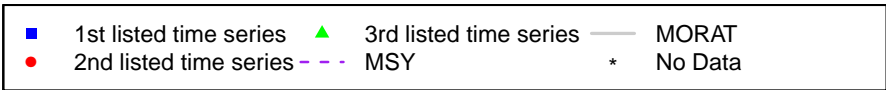
CPUE-kg/day (1990-2007-CHING)



EFFORT*



CdivMSY*



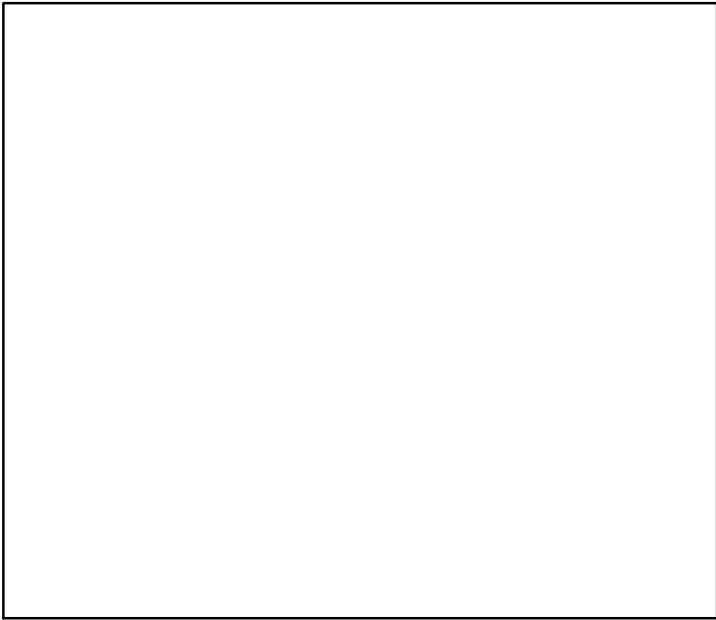
False Scad West Africa [FSCADWA]

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	0.63	-	-
ER	ER-calc-ratio	2010	0.626	-	-
TC	TC-MT	2010	62,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

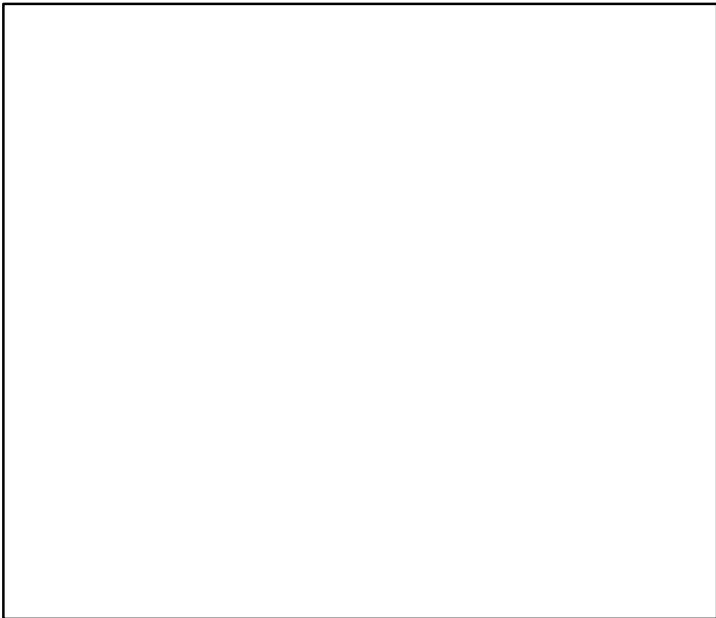
Kobe MSY*



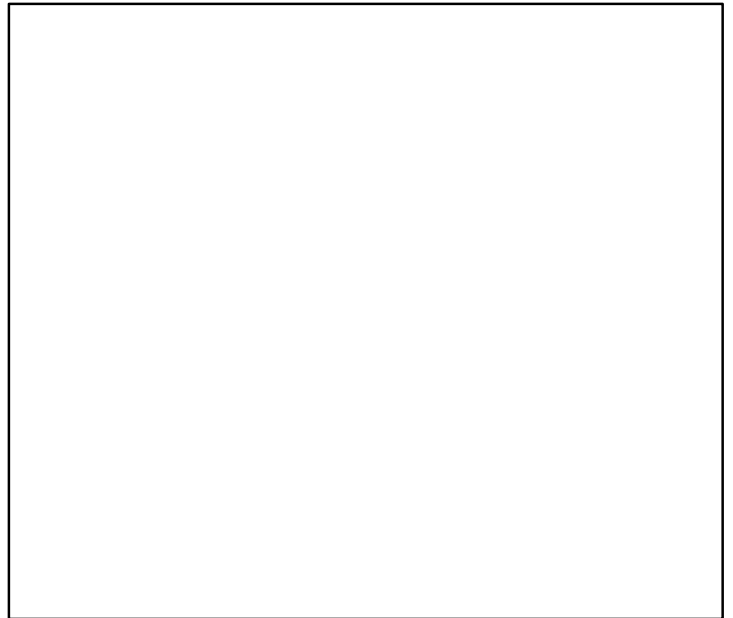
Kobe MGT*



Spawner Recruit*



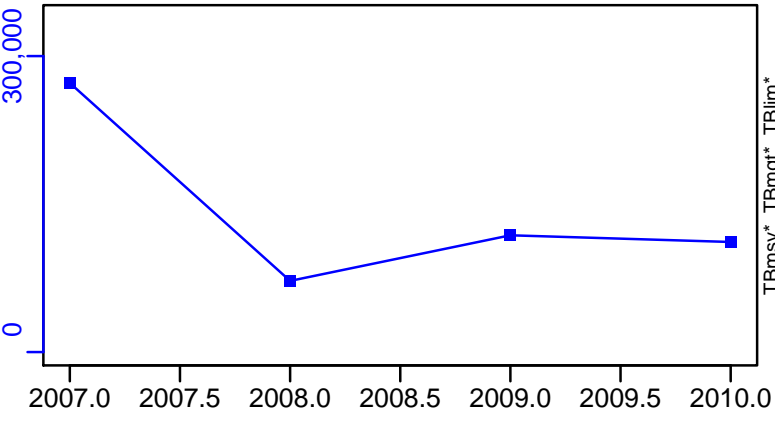
Production*



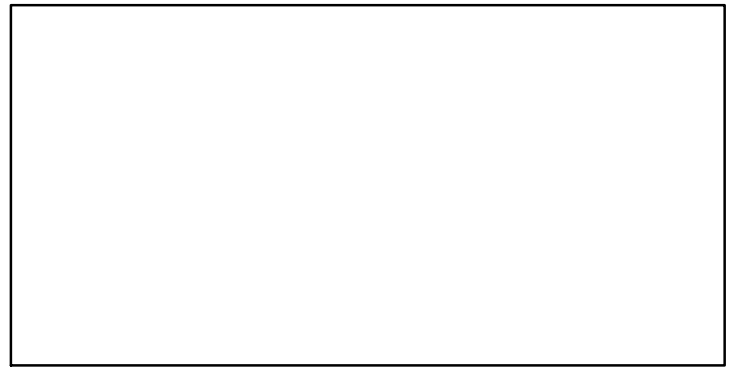
◆ Start Year ◆ End Year * No Data

False Scad West Africa [FSCADWA]

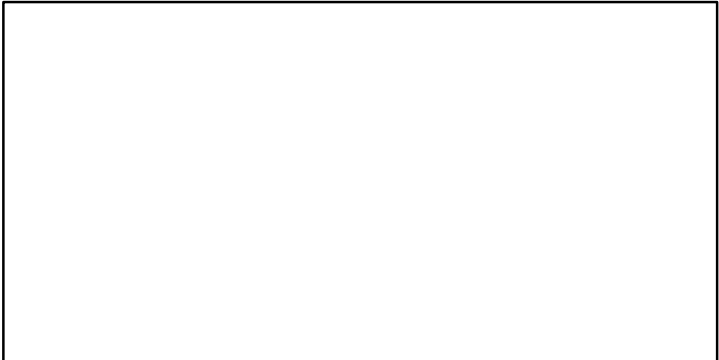
TB-MT (1990-2010-CHING)



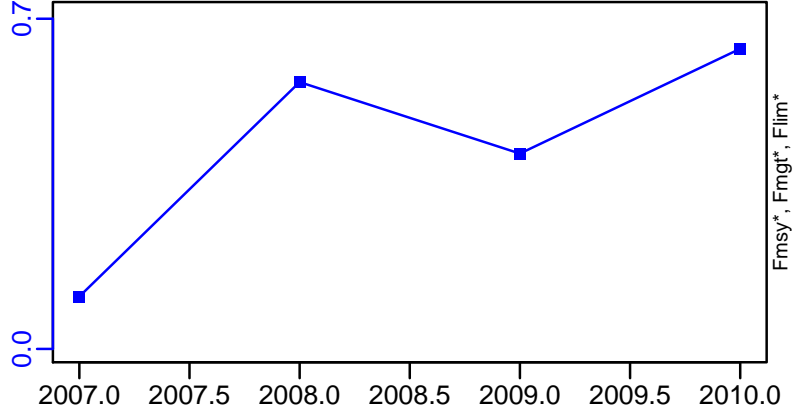
SSB*



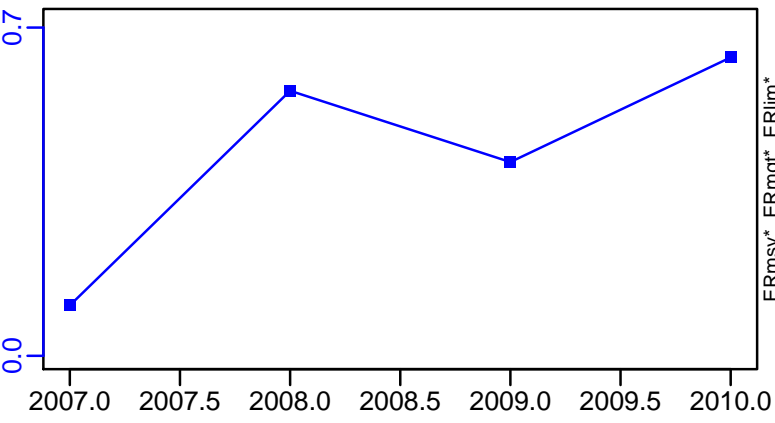
TN *



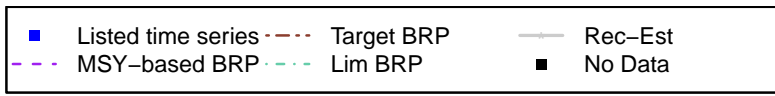
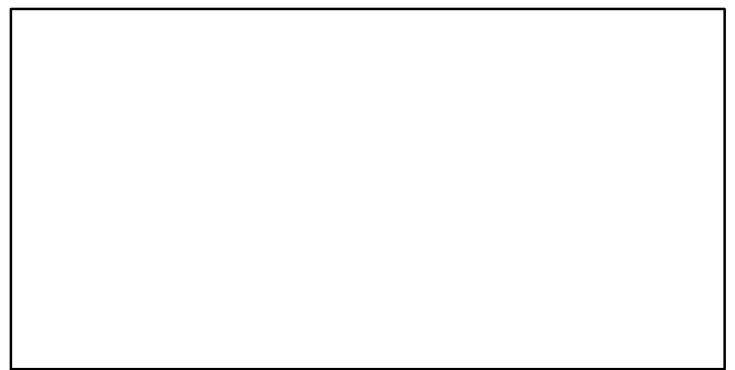
F-1/yr (1990-2010-CHING)



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



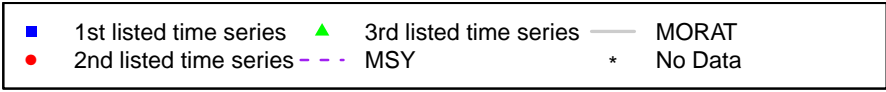
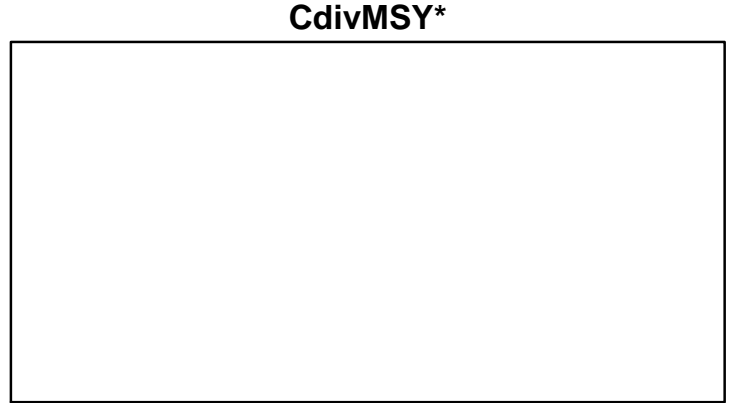
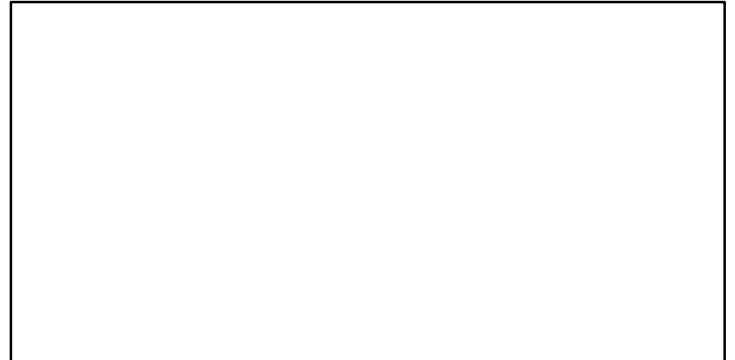
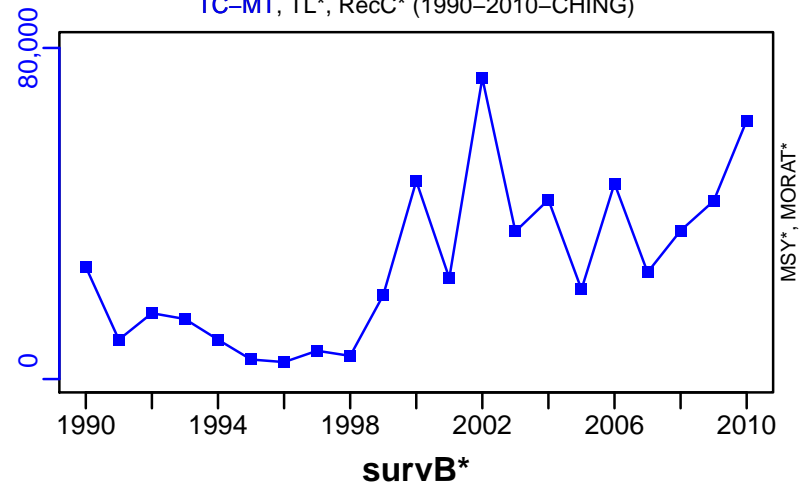
Recruits*



False Scad West Africa [FSCADWA]

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

TAC*, Cpair*, Cadv*



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

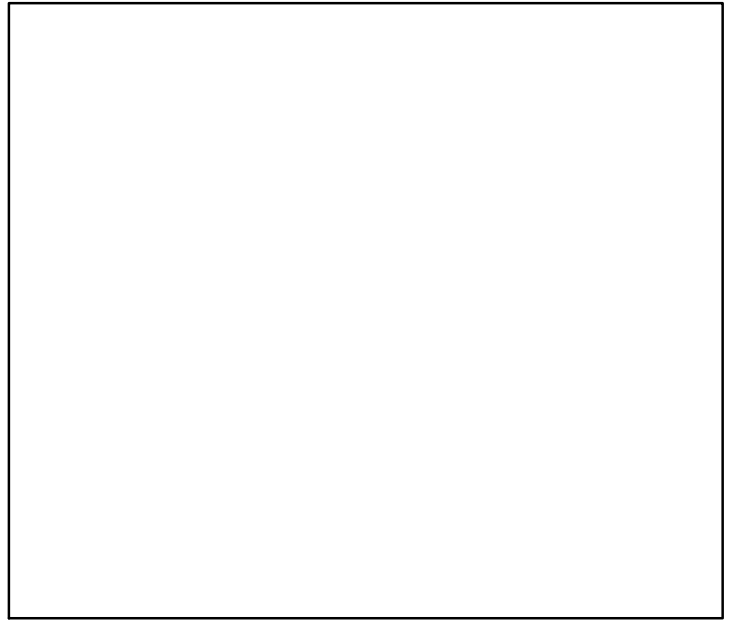
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

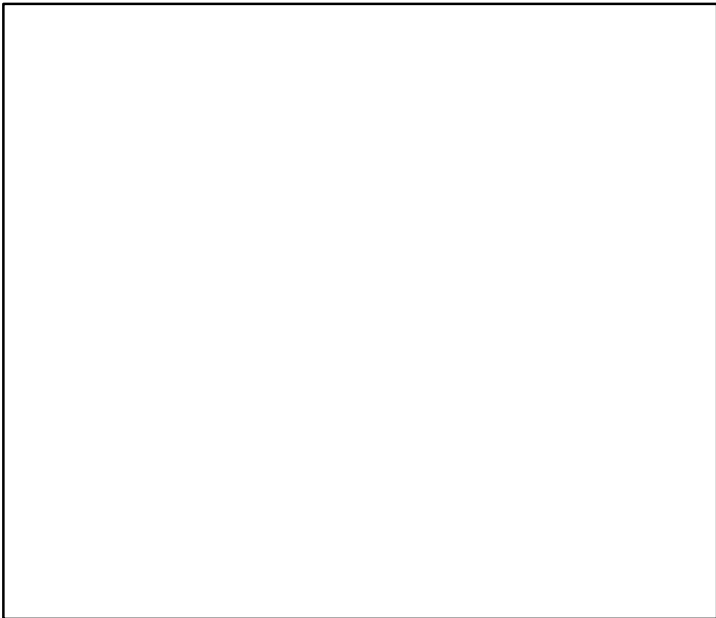
Kobe MSY*



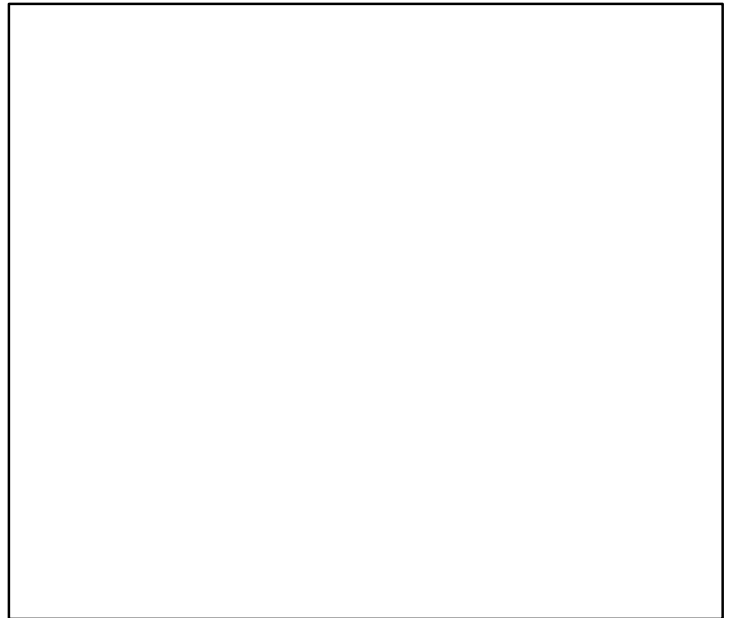
Kobe MGT*



Spawner Recruit*



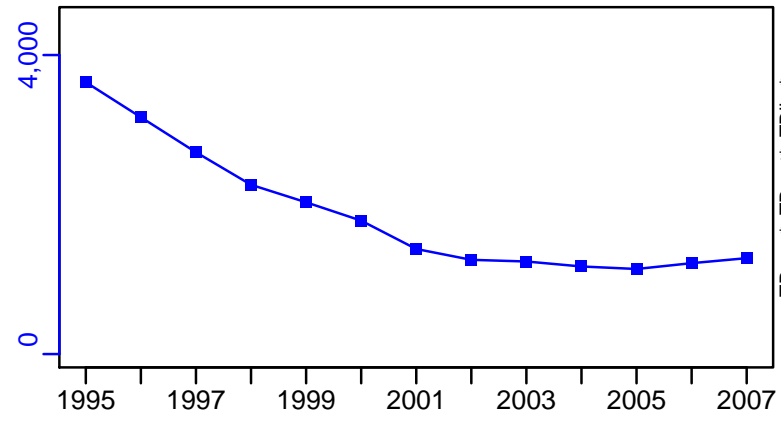
Production*



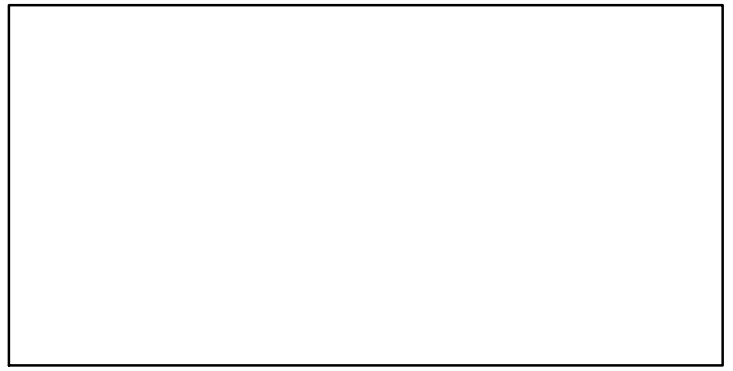
◆ Start Year ◆ End Year * No Data

Grey Grunt West Africa Subgroup 1 [GGRUNTWASG1]

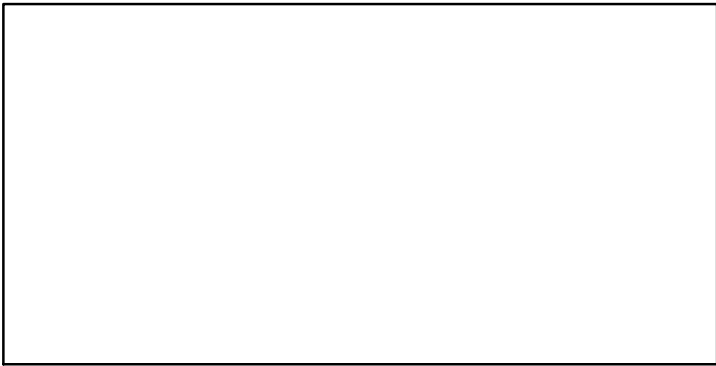
TB-index (1994-2007-CHING)



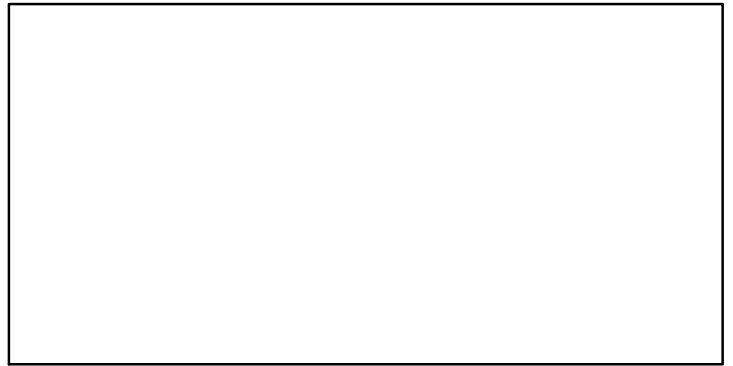
SSB*



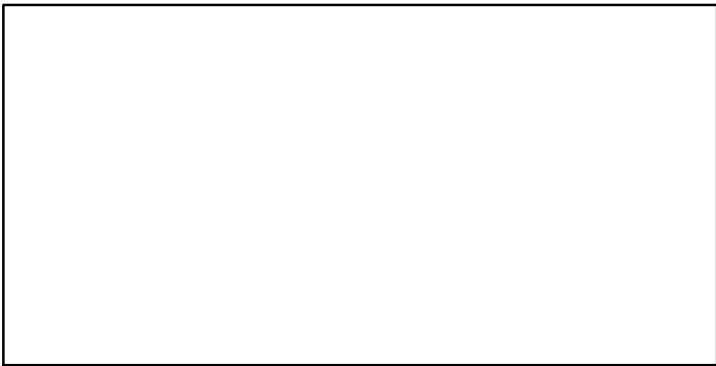
TN *



F*



ER*



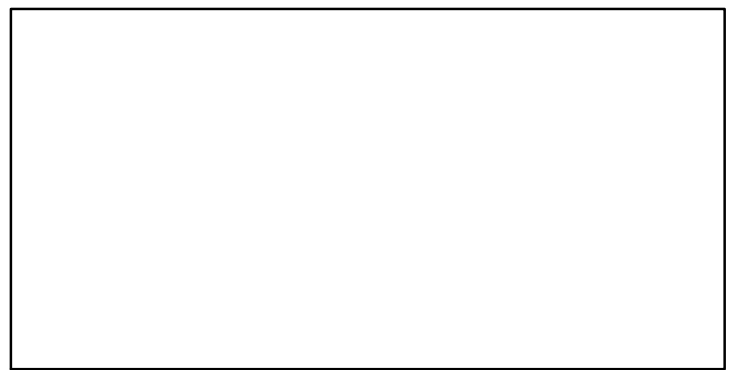
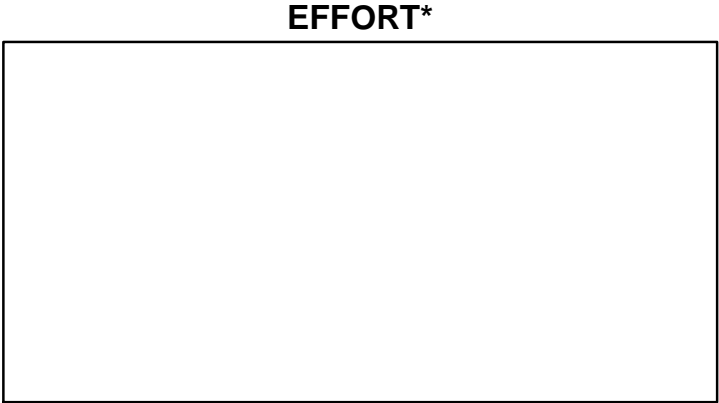
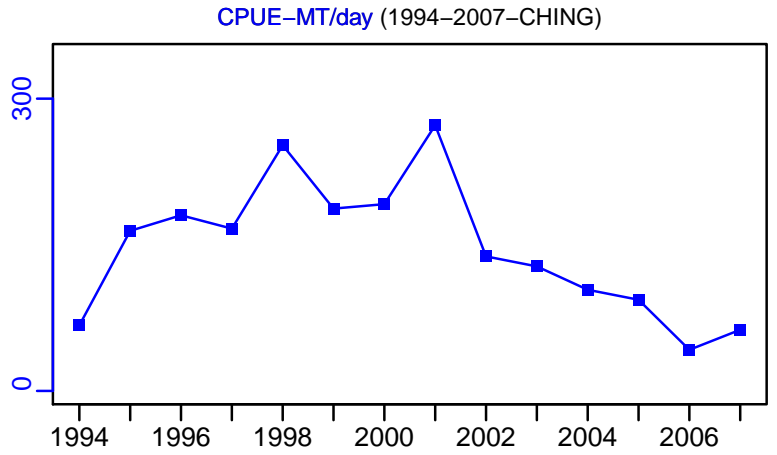
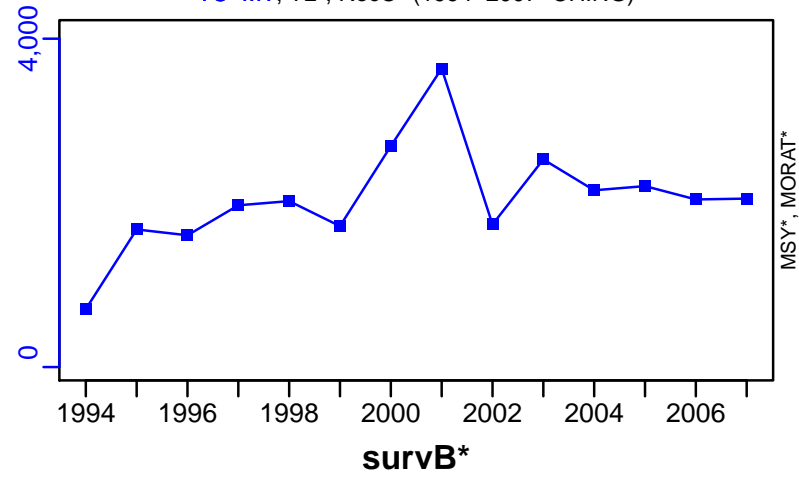
Recruits*



Grey Grunt West Africa Subgroup 1 [GGRUNTWASG1]

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

TAC*, Cpair*, Cadv*



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

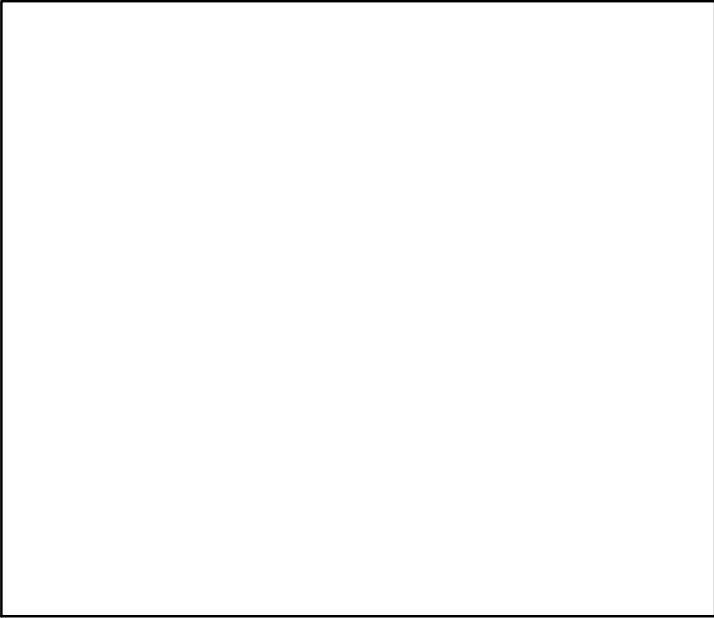
Grey Grunt West Africa Subgroup 3 [GGRUNTWASG3]

Metadata	
Scientific Name	Pomadasyss 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

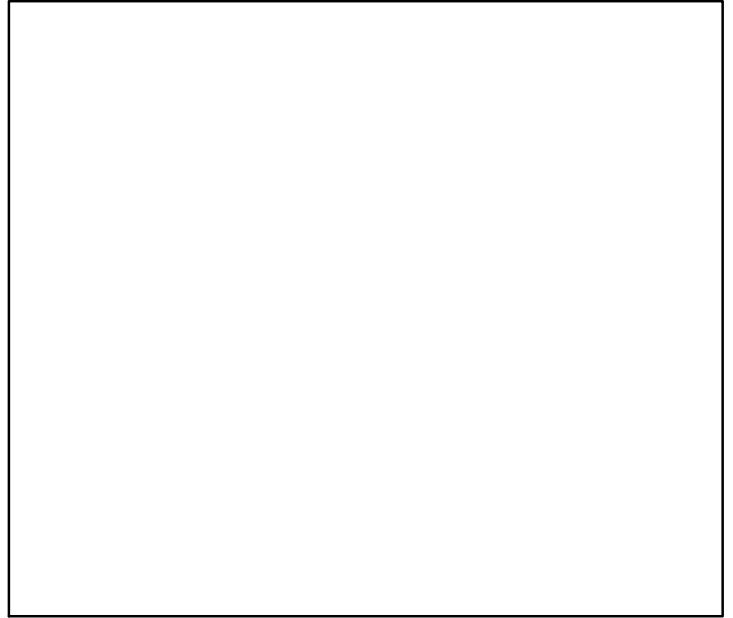
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

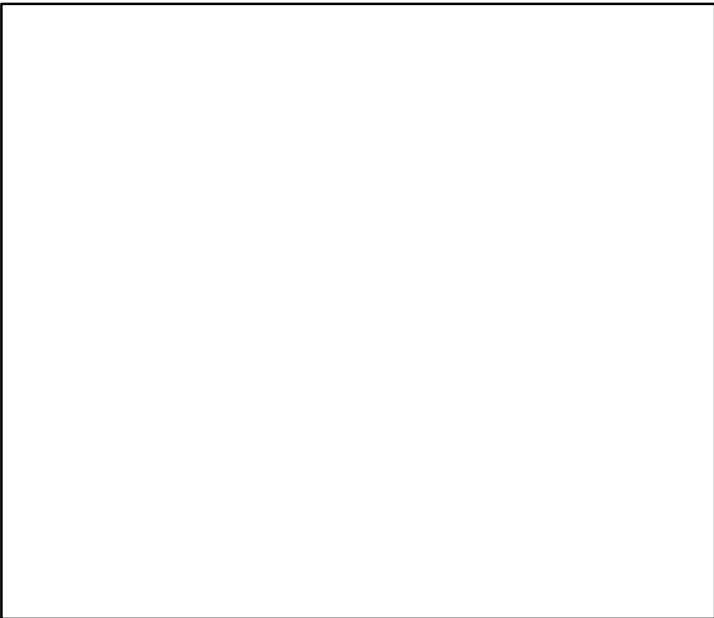
Kobe MSY*



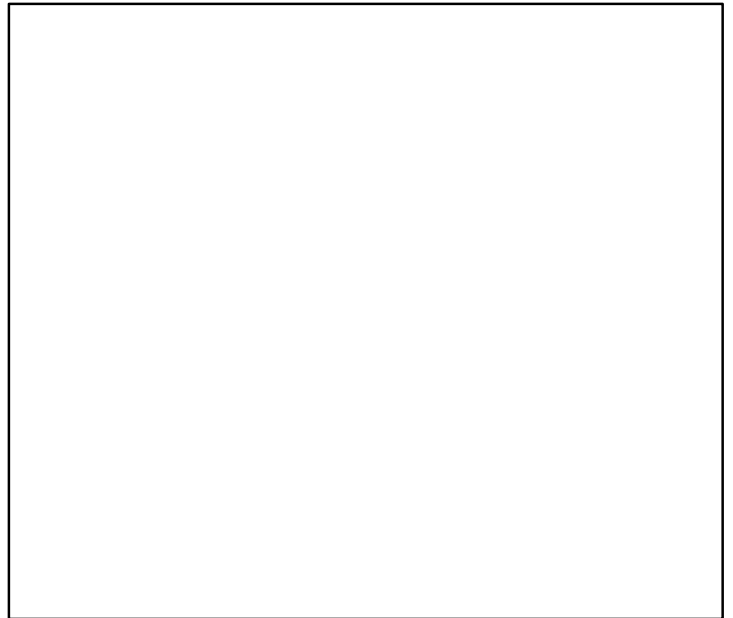
Kobe MGT*



Spawner Recruit*



Production*

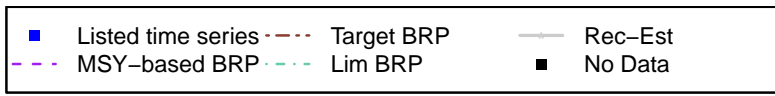
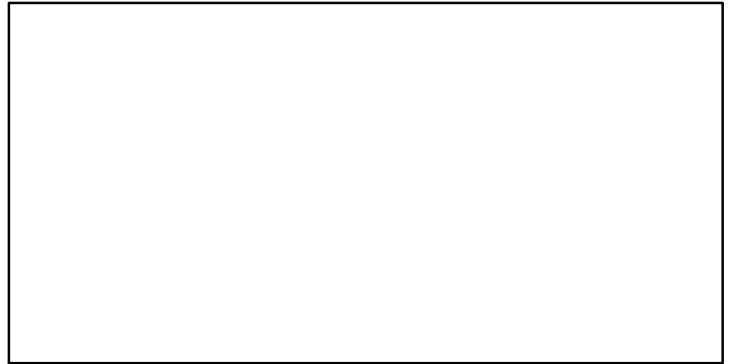
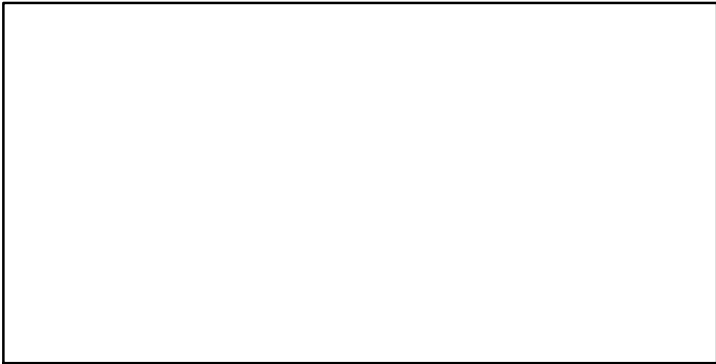
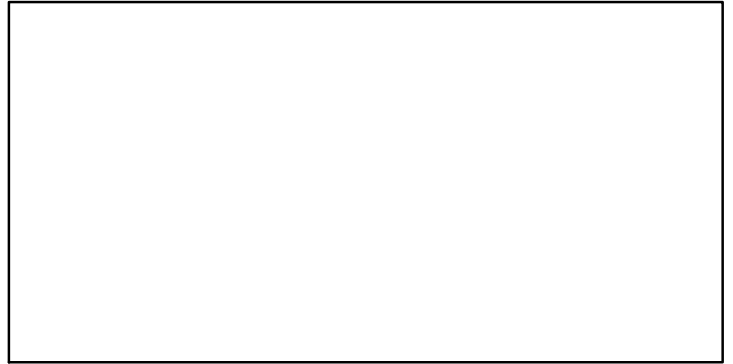
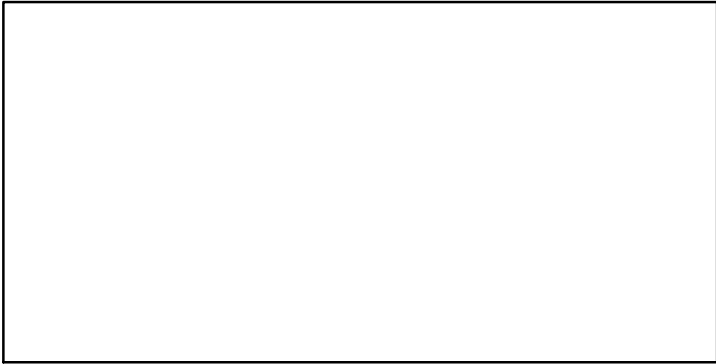
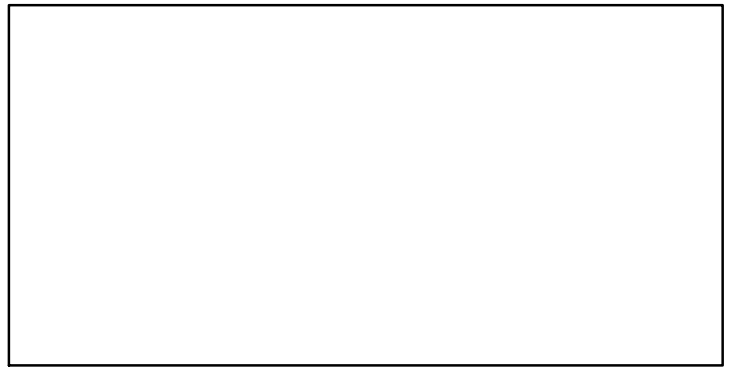
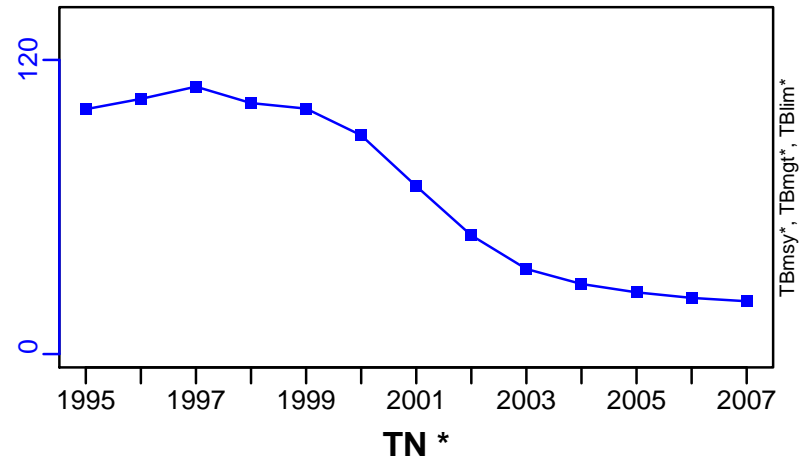


◆ Start Year ◆ End Year * No Data

Grey Grunt West Africa Subgroup 3 [GGRUNTWASG3]

TB-index (1995-2007-CHING)

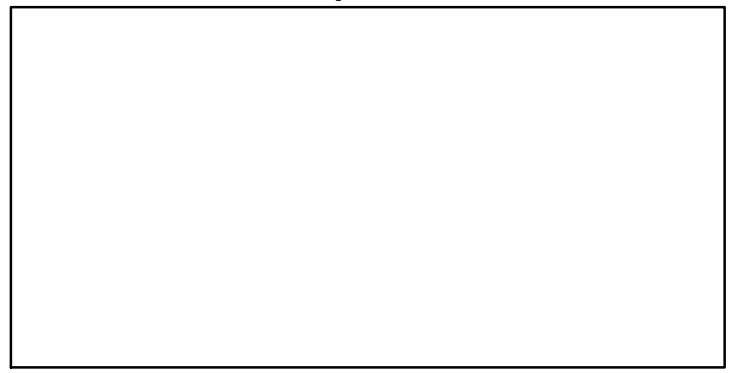
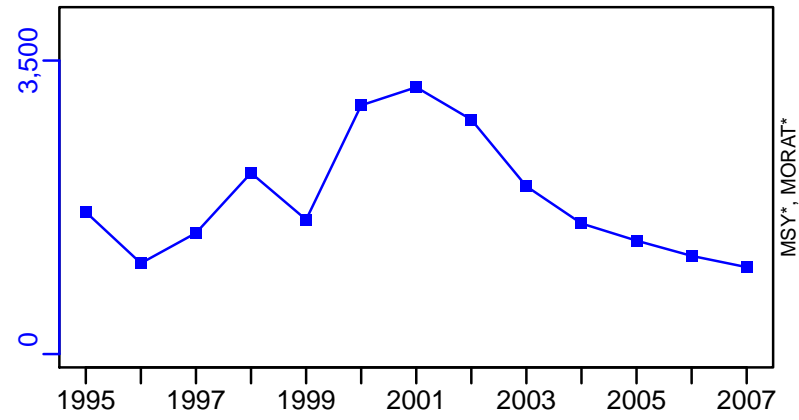
SSB*



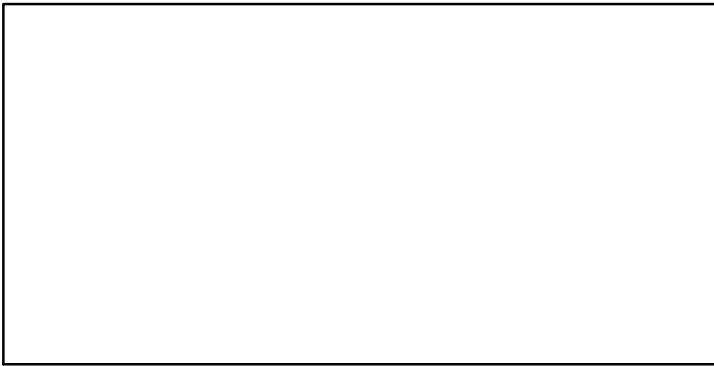
Grey Grunt West Africa Subgroup 3 [GGRUNTWASG3]

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

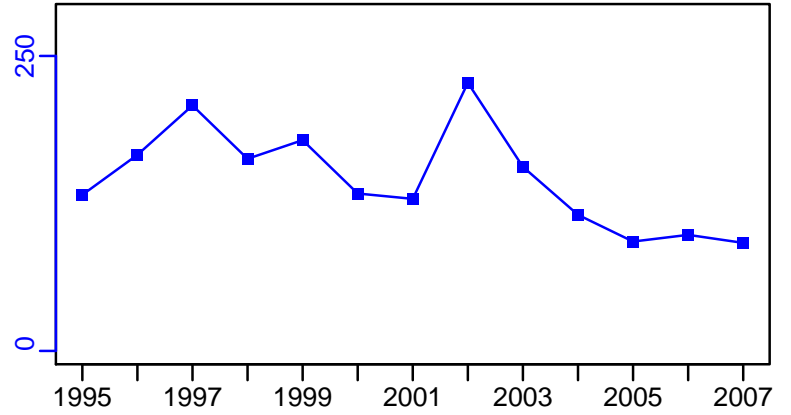
TAC*, Cpair*, Cadv*



survB*



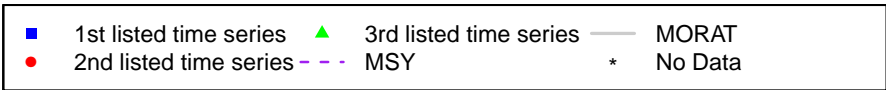
CPUE-kg/day (1995-2007-CHING)



EFFORT*



CdivMSY*



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	0.72	-	-
ER	ER-calc-ratio	2010	0.719	-	-
TC	TC-MT	2010	110,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	2.323		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Horse Mackerel West Africa [HMACKWA]

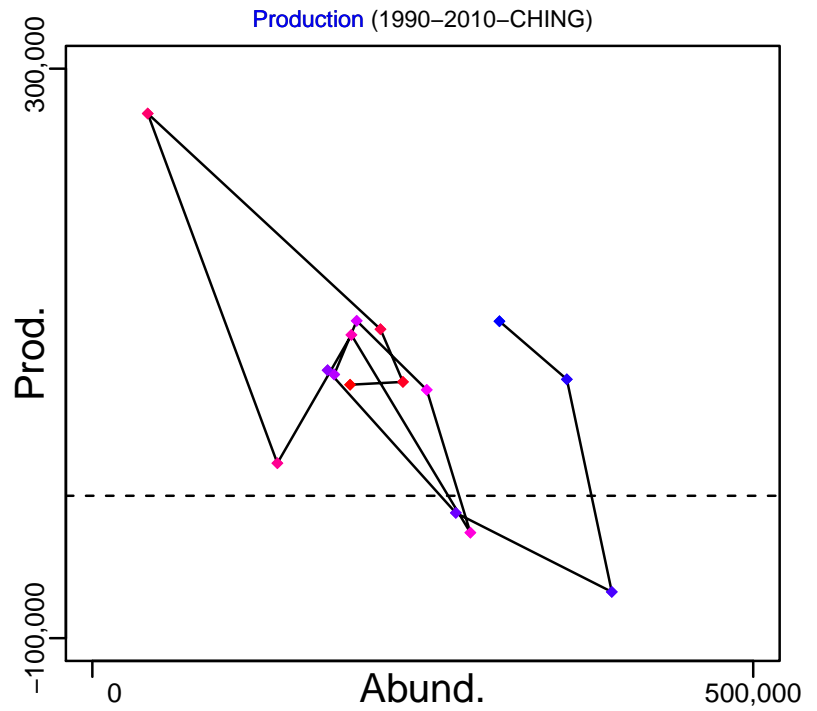
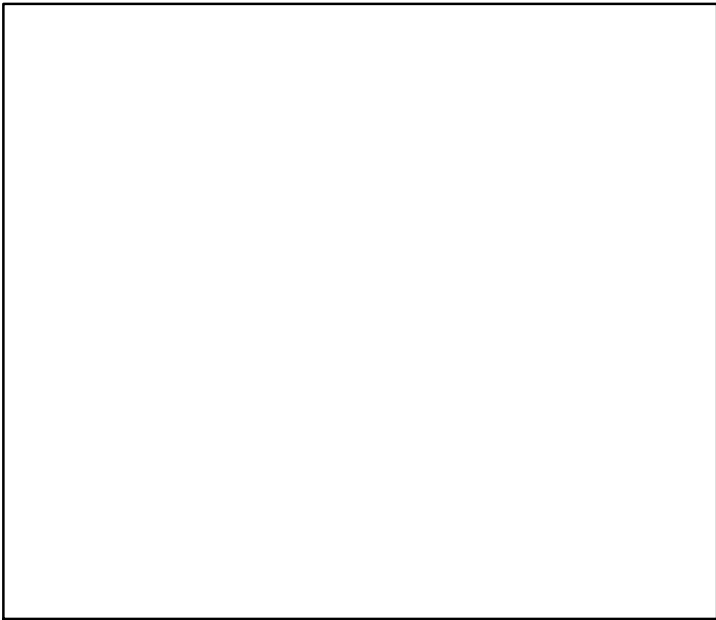
Kobe MSY*



Kobe MGT*



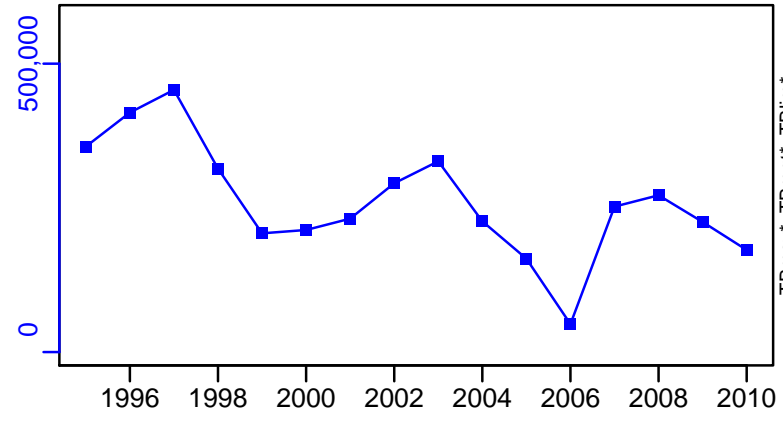
Spawner Recruit*



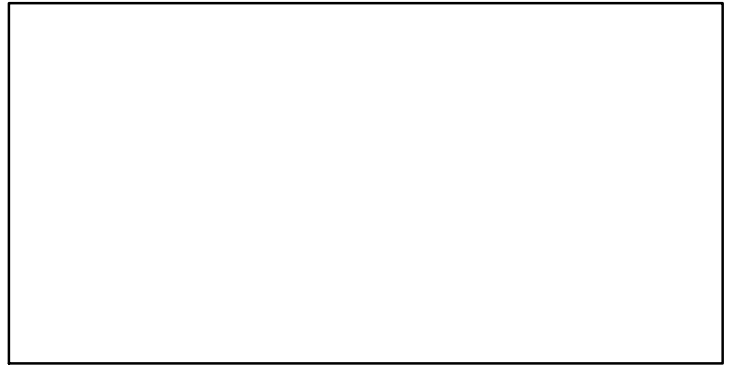
◆ Start Year ◆ End Year * No Data

Horse Mackerel West Africa [HMACKWA]

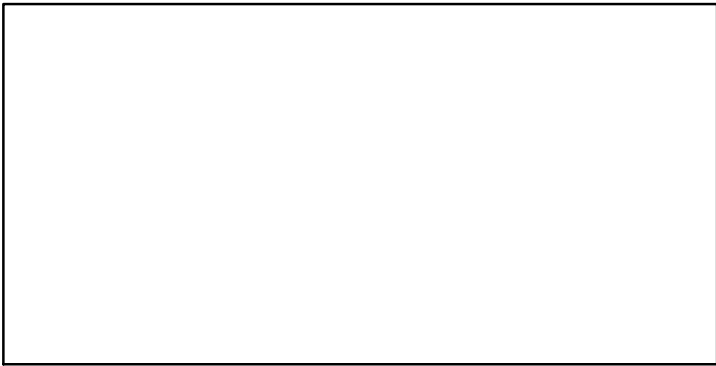
TB-MT (1990-2010-CHING)



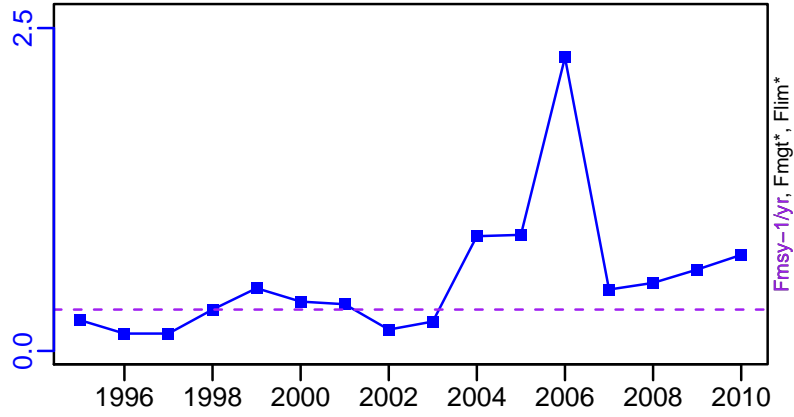
SSB*



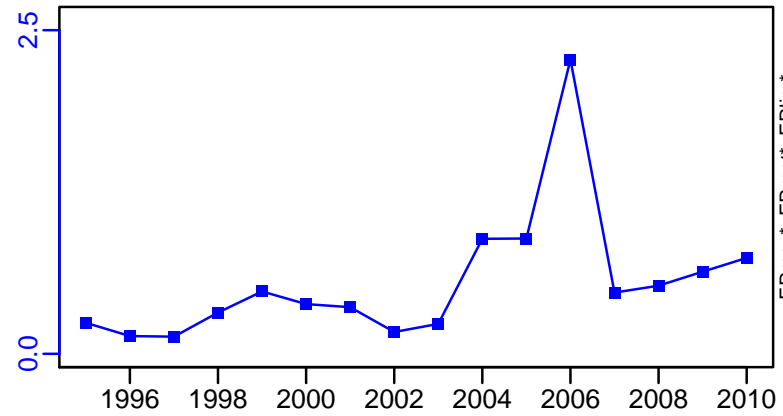
TN *



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



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



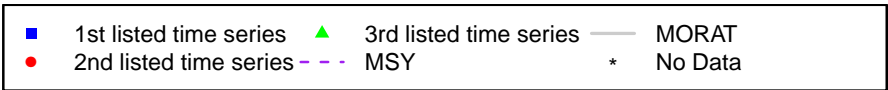
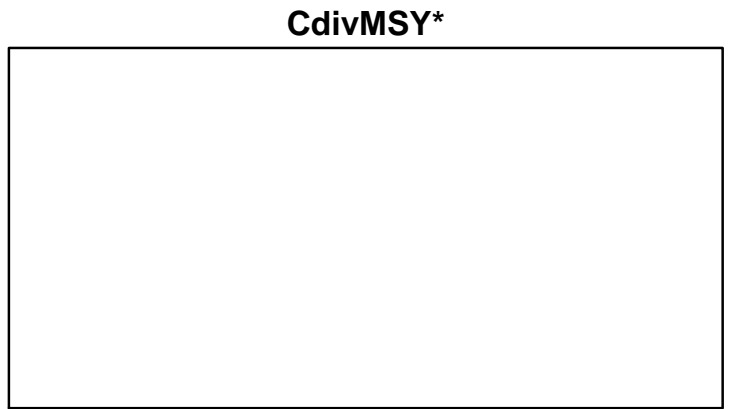
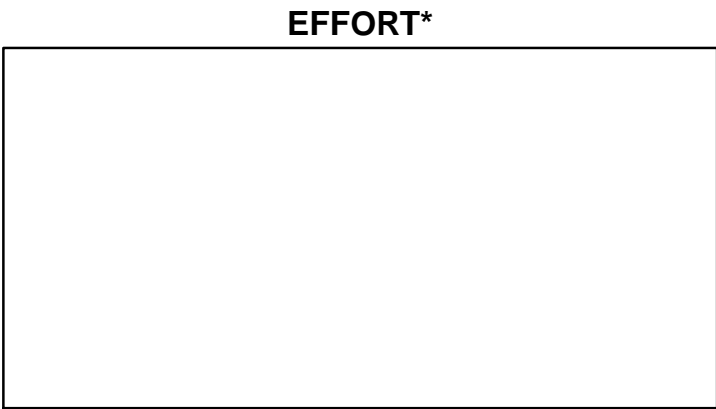
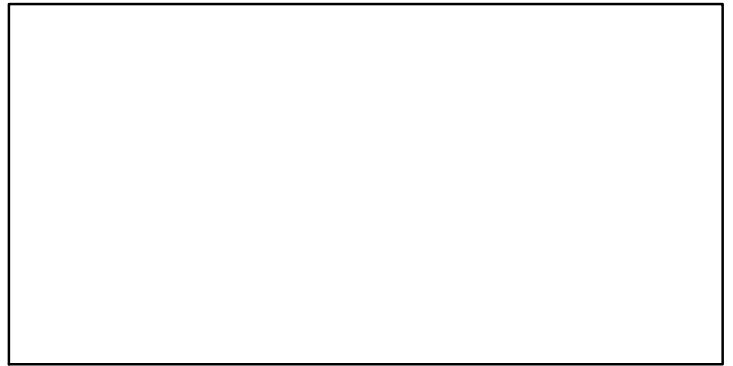
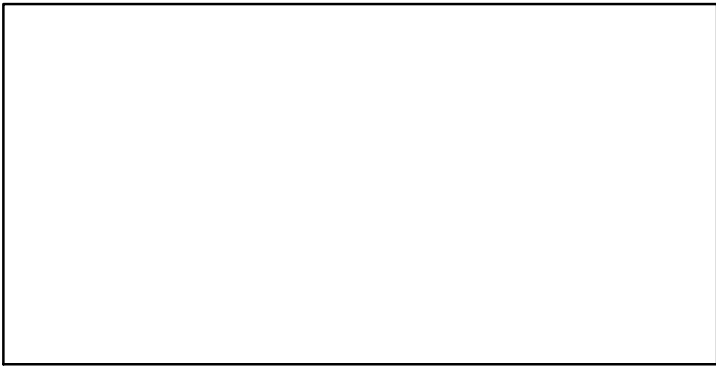
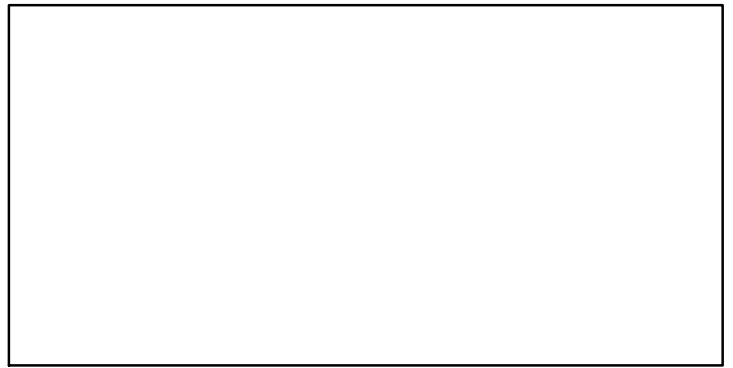
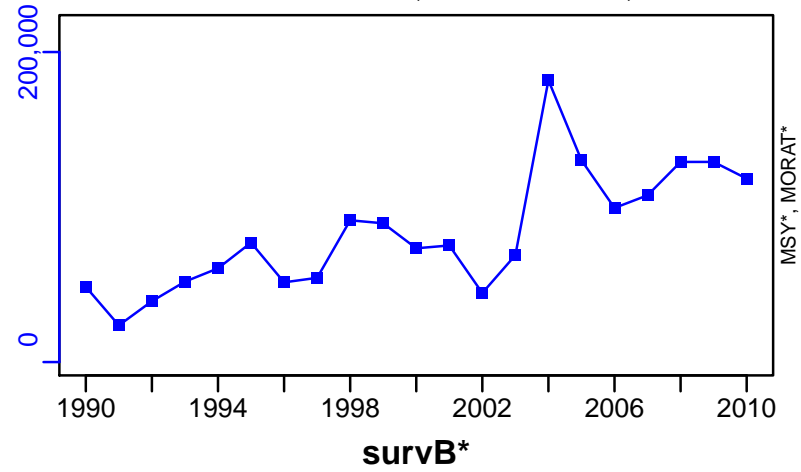
Recruits*



Horse Mackerel West Africa [HMACKWA]

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

TAC*, Cpair*, Cadv*



Large-eye Dentex West Africa Subgroup 3 [LDENTWASG3]

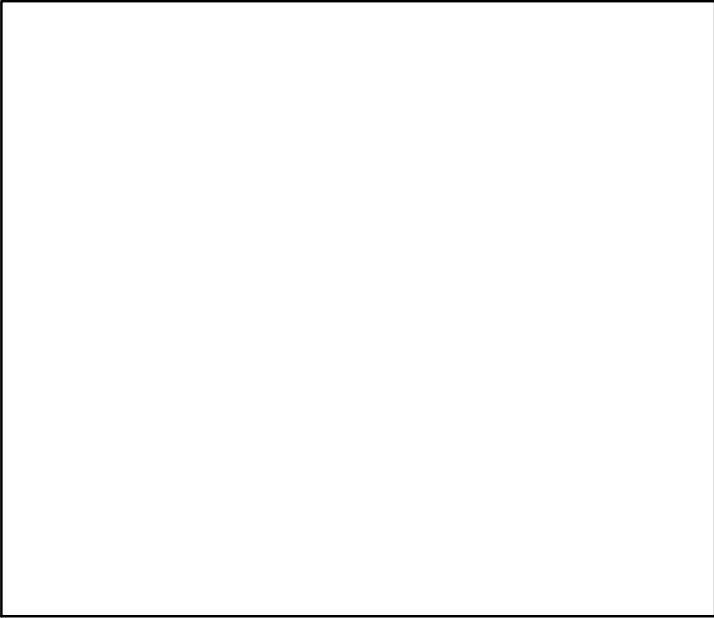
Metadata	
Scientific Name	Dentex macrophthalmus
Current Assess ID	FAO-DRSS-LDENTWASG3-1995-2007-CHING
Area	West Africa Subgroup 3
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South
Asmts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

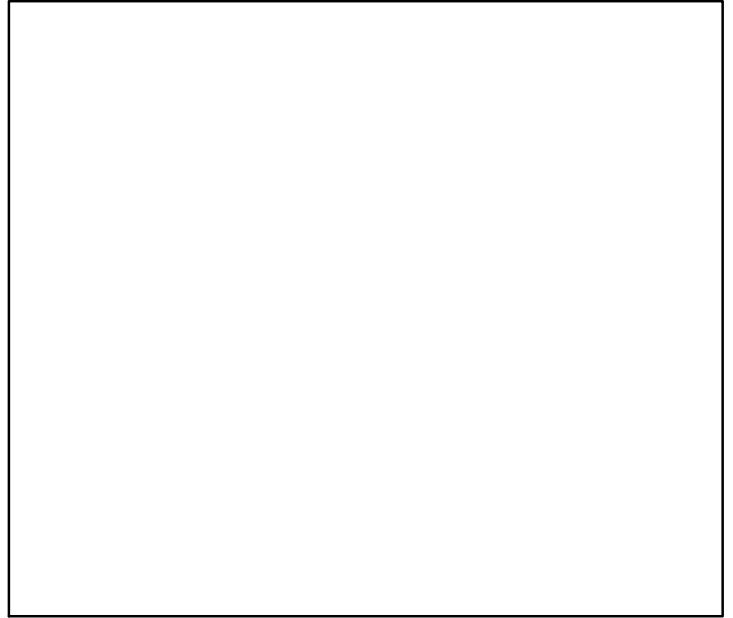
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	155	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	19,100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt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

Large-eye Dentex West Africa Subgroup 3 [LDENTWASG3]

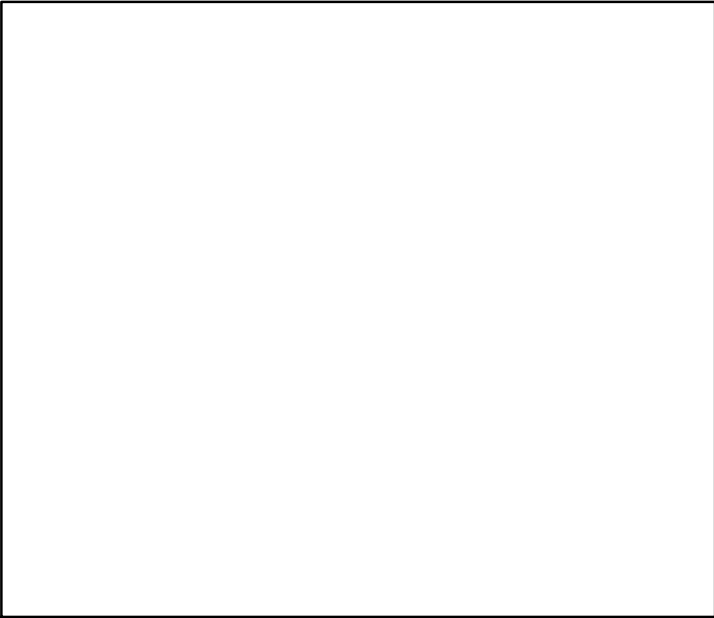
Kobe MSY*



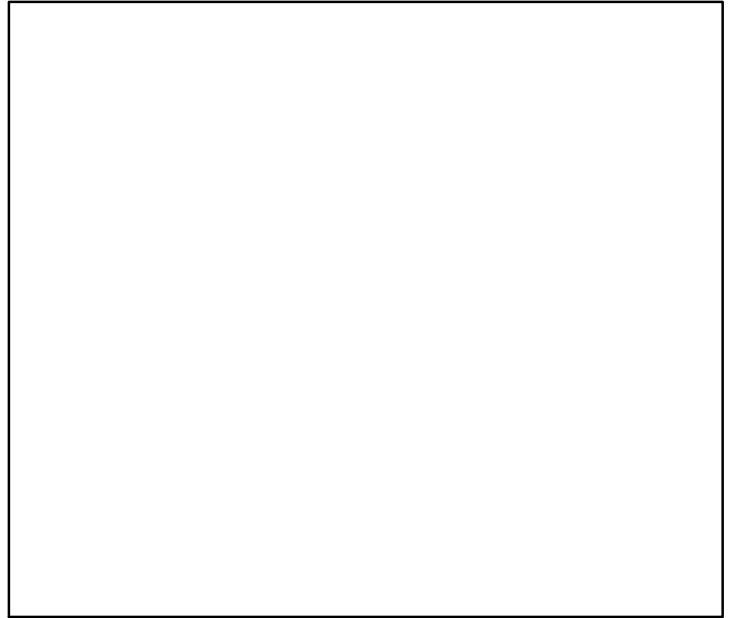
Kobe MGT*



Spawner Recruit*



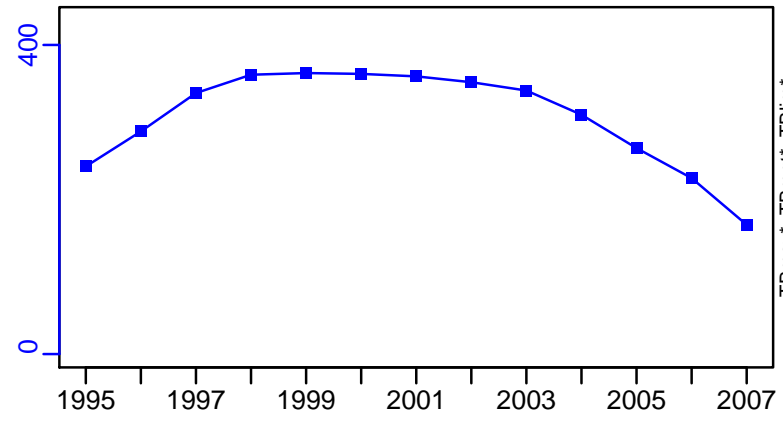
Production*



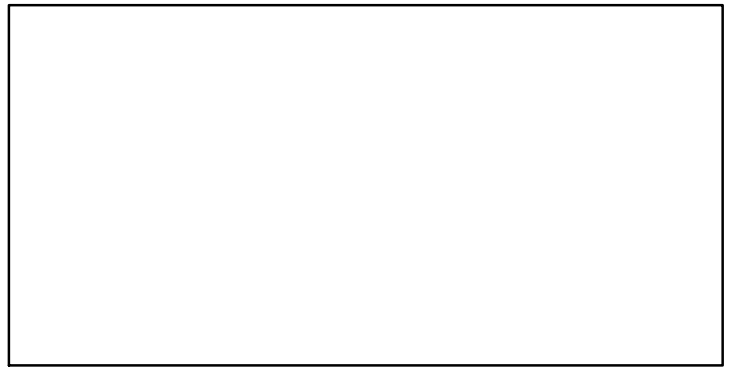
◆ Start Year ◆ End Year * No Data

Large-eye Dentex West Africa Subgroup 3 [LDENTWASG3]

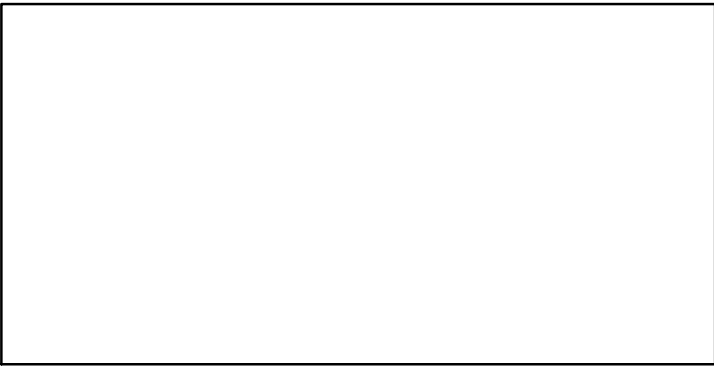
TB-index (1995-2007-CHING)



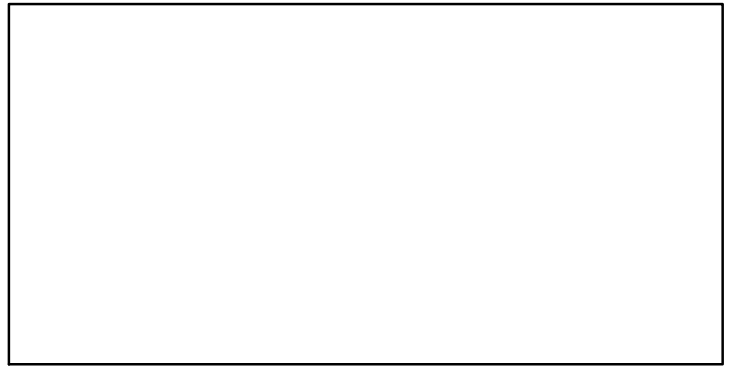
SSB*



TN *



F*



ER*



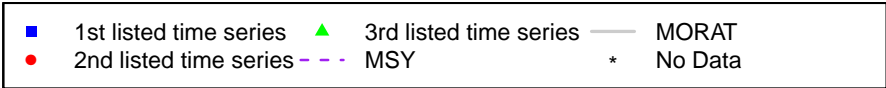
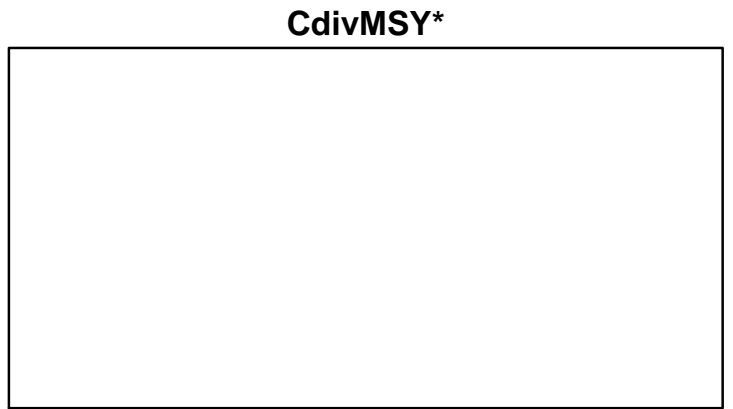
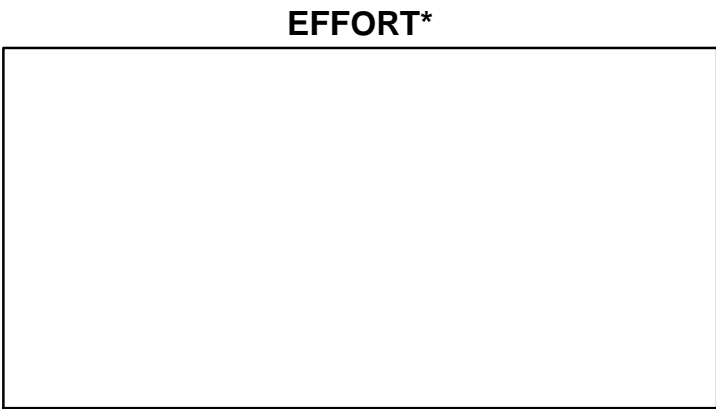
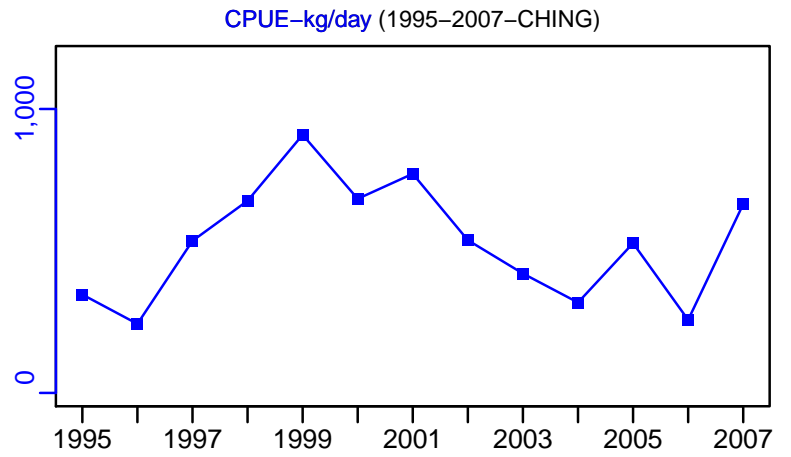
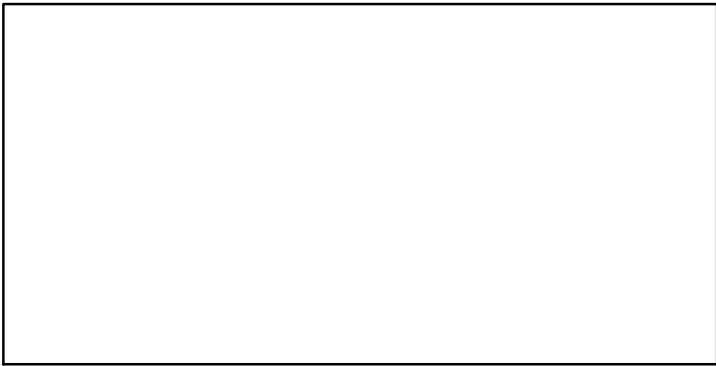
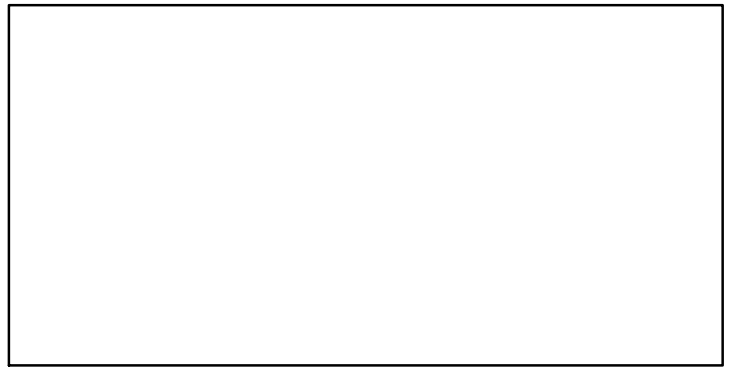
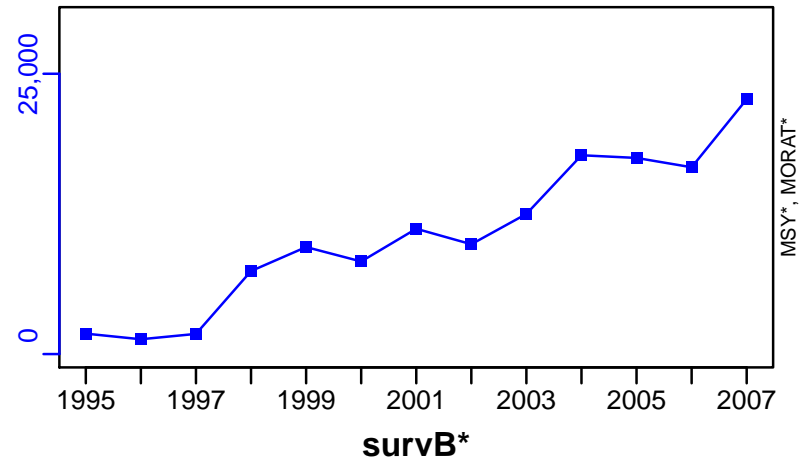
Recruits*



Large-eye Dentex West Africa Subgroup 3 [LDENTWASG3]

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

TAC*, Cpair*, Cadv*



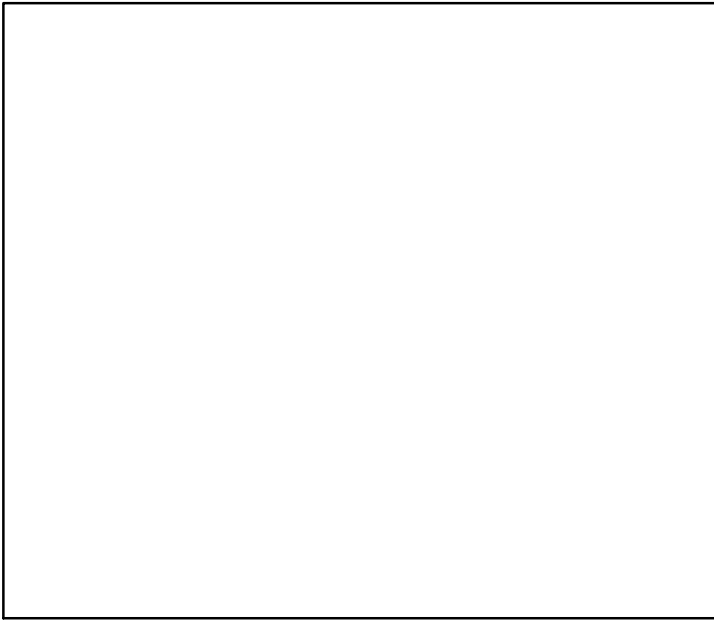
Octopus West Africa [OCTOWA]

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	-	-	-		

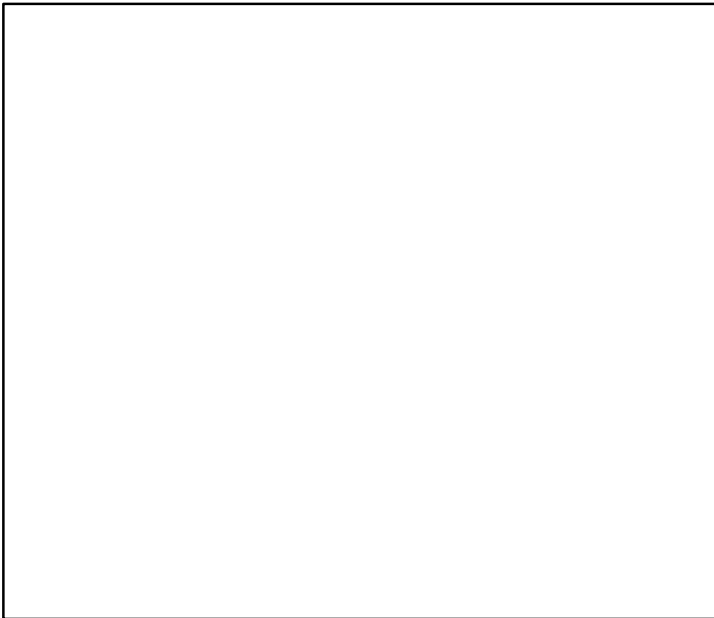
Kobe MSY*



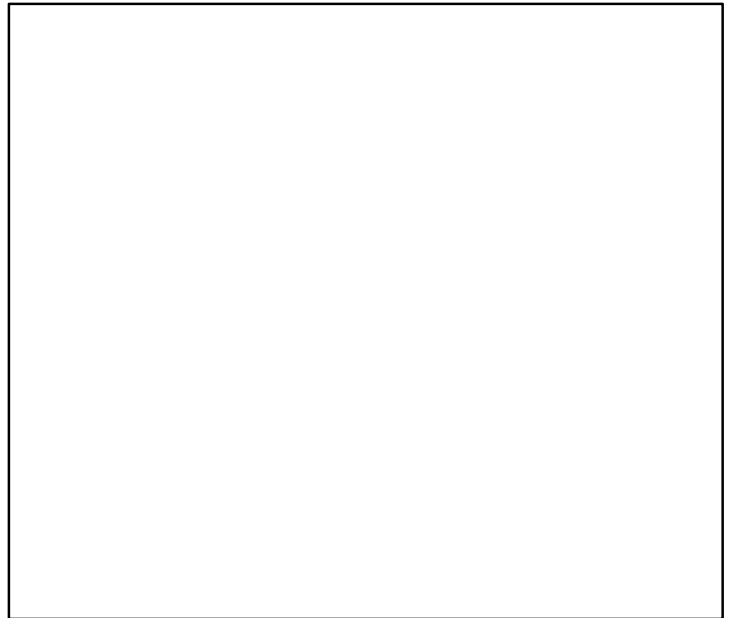
Kobe MGT*



Spawner Recruit*



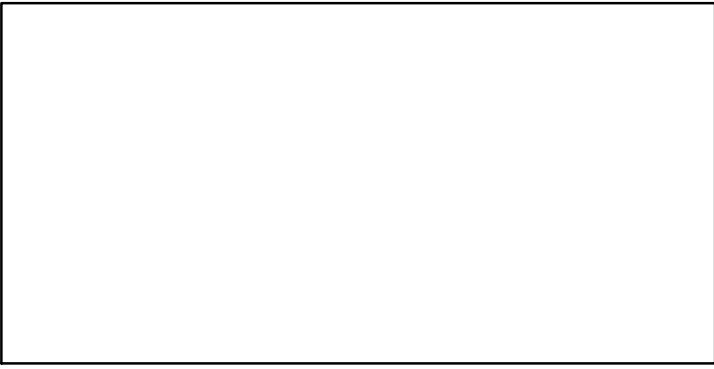
Production*



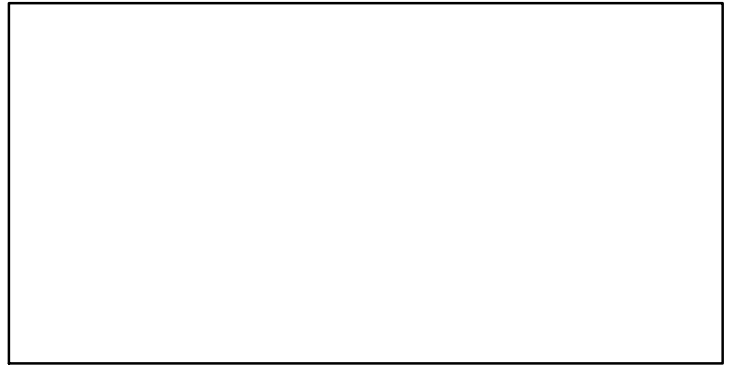
◆ Start Year ◆ End Year * No Data

Octopus West Africa [OCTOWA]

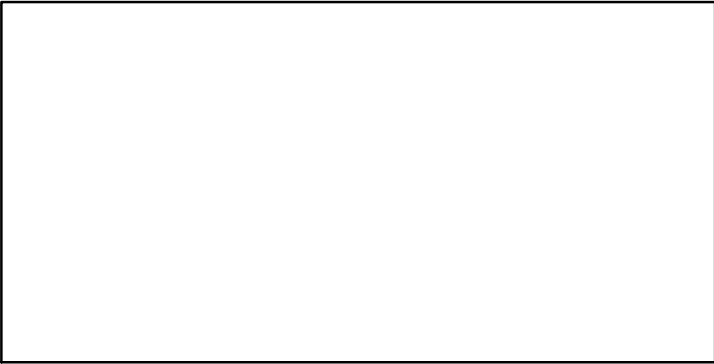
TB*



SSB*



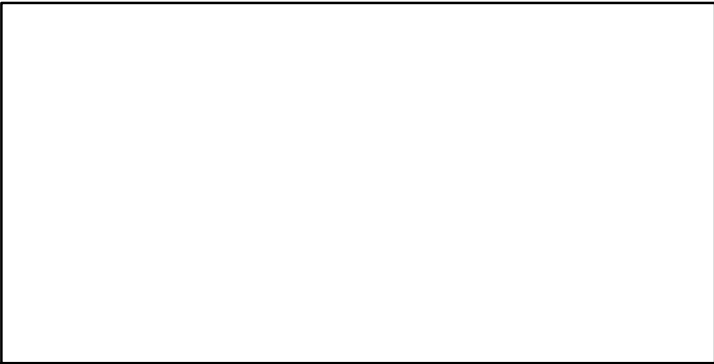
TN *



F*



ER*



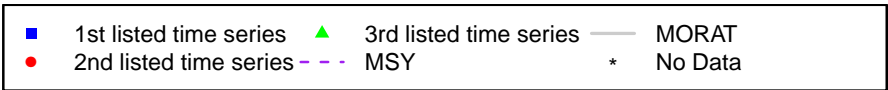
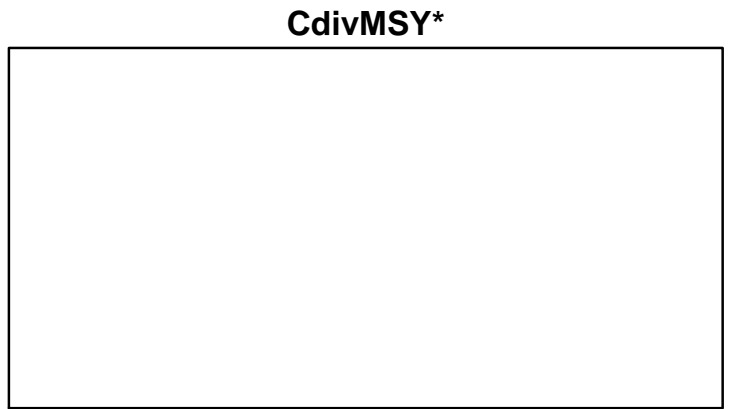
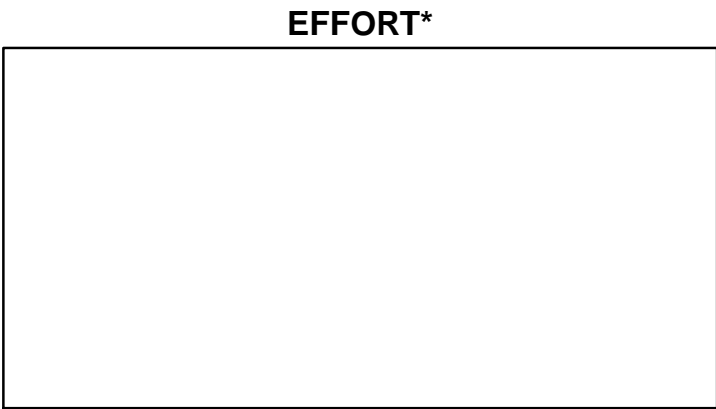
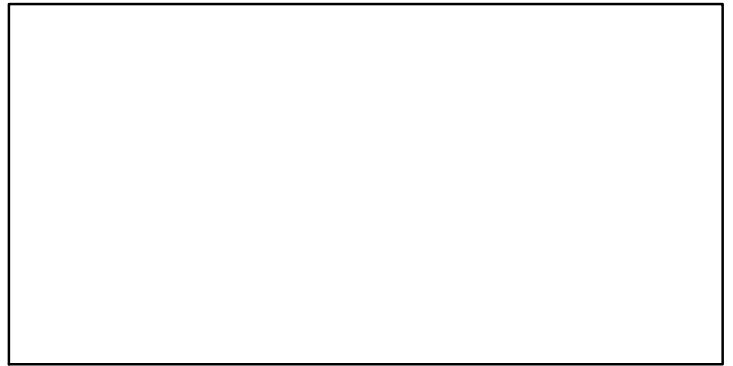
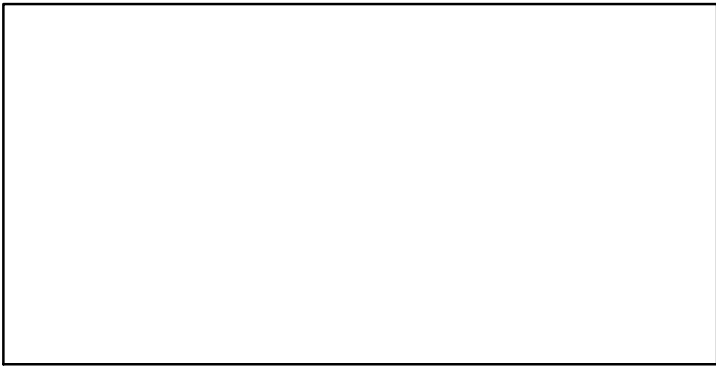
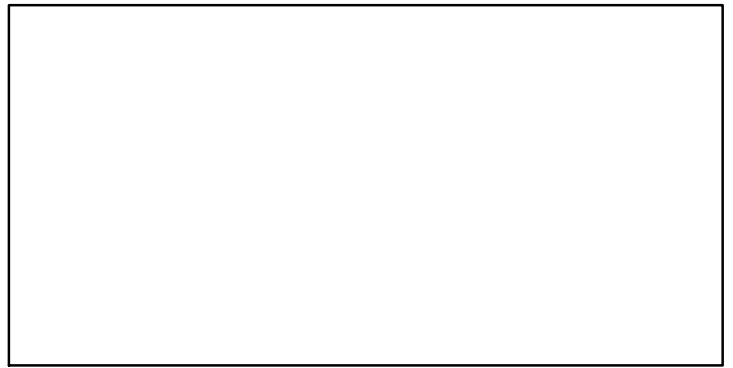
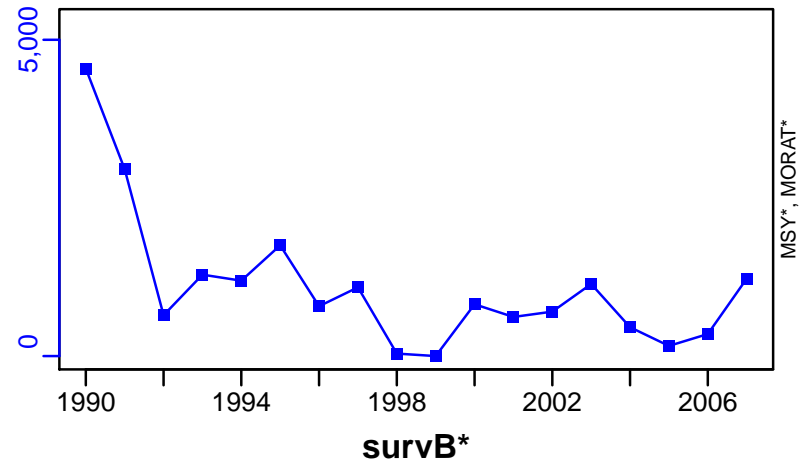
Recruits*



Octopus West Africa [OCTOWA]

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

TAC*, Cpair*, Cadv*



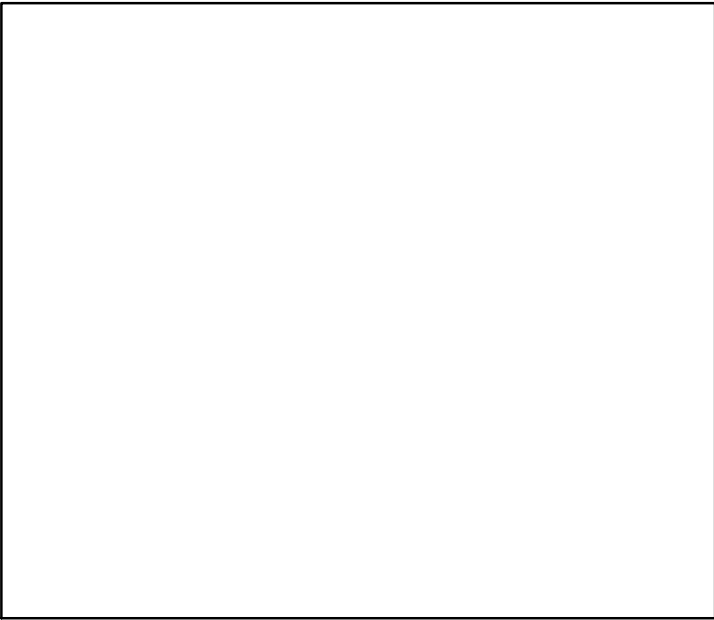
Red Pandora West Africa Subgroup 2 [RPANDWASG2]

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	-	-	-		

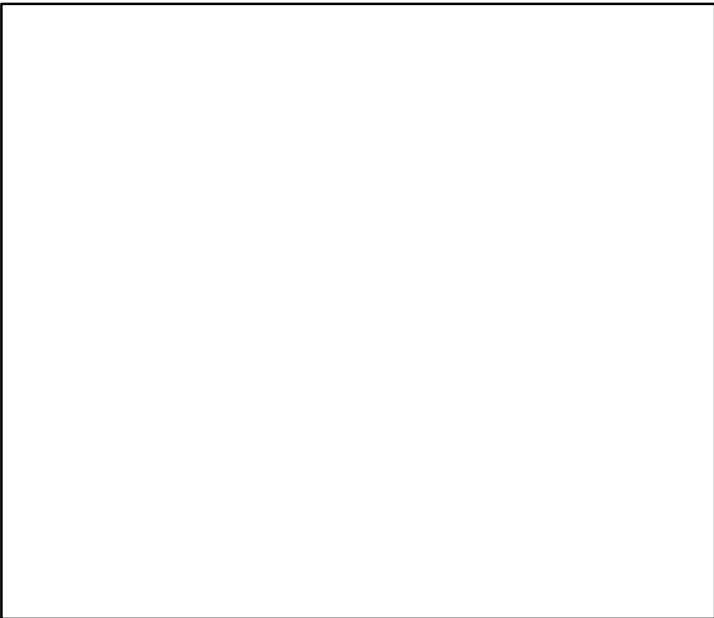
Kobe MSY*



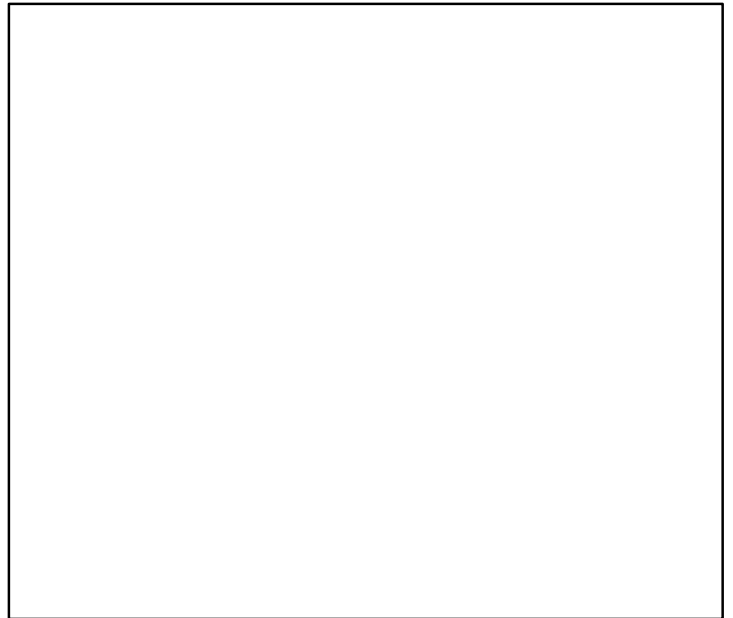
Kobe MGT*



Spawner Recruit*



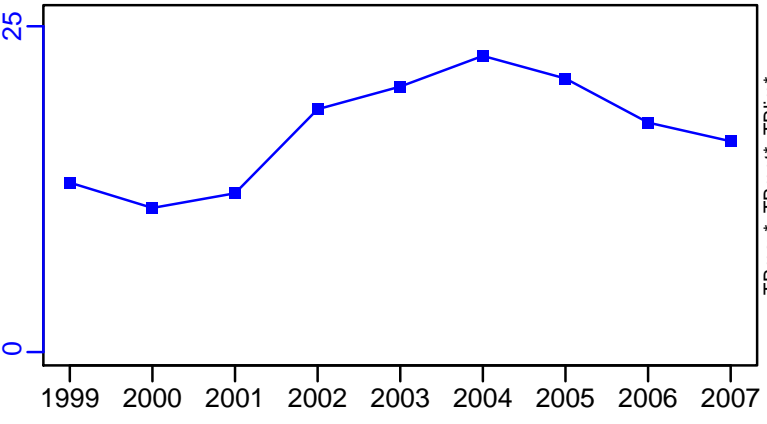
Production*



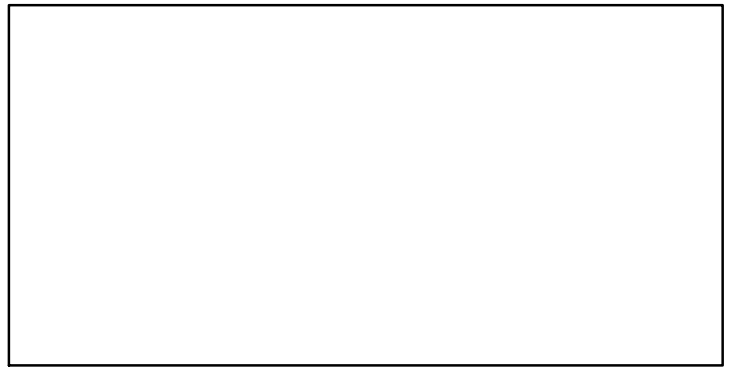
◆ Start Year ◆ End Year * No Data

Red Pandora West Africa Subgroup 2 [RPANDWASG2]

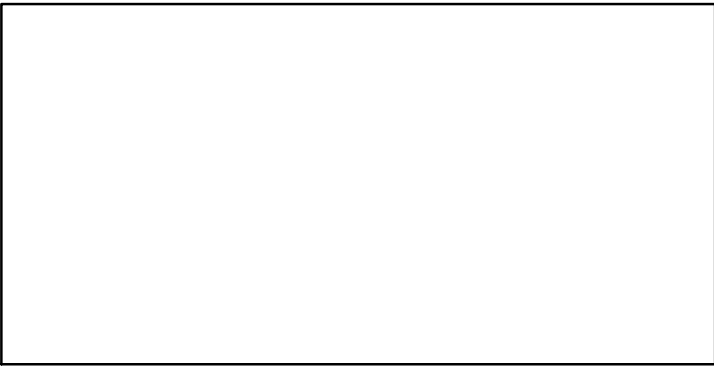
TB-index (1990-2007-CHING)



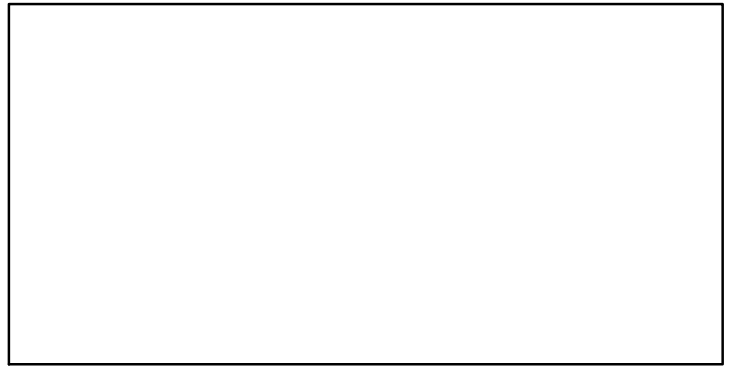
SSB*



TN *



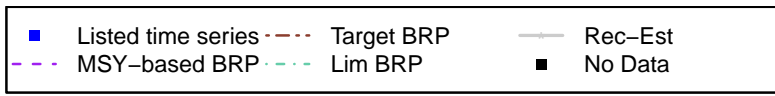
F*



ER*



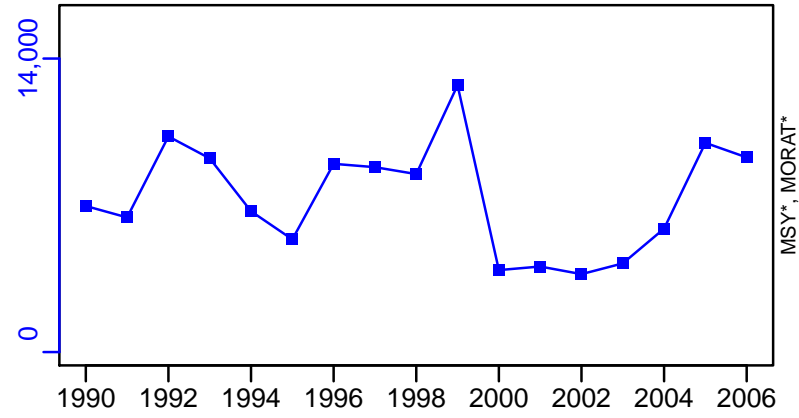
Recruits*



Red Pandora West Africa Subgroup 2 [RPANDWASG2]

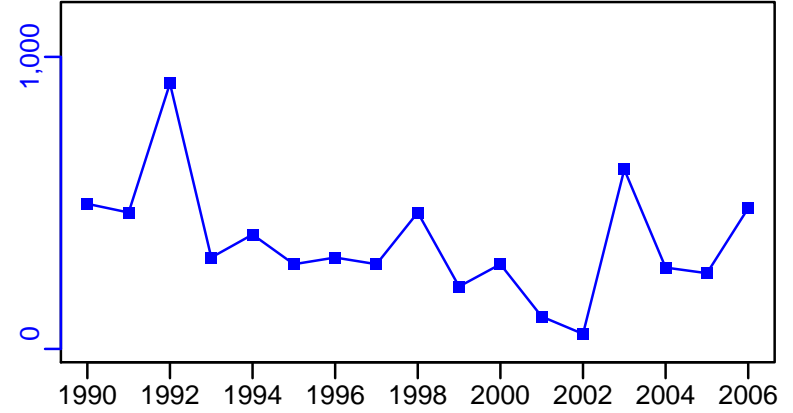
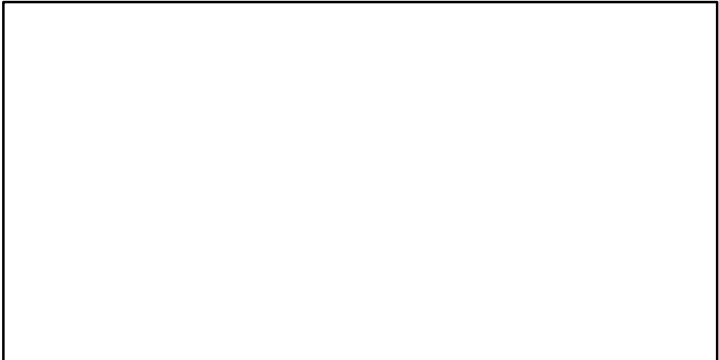
TC-MT, TL*, RecC* (1990-2007-CHING)

TAC*, Cpair*, Cadv*



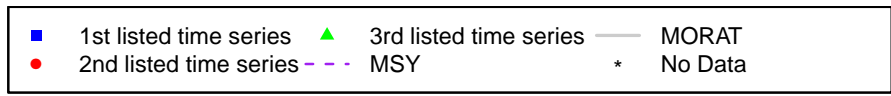
survB*

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



EFFORT*

CdivMSY*



Round Sardinella West Africa [RSARDINWA]

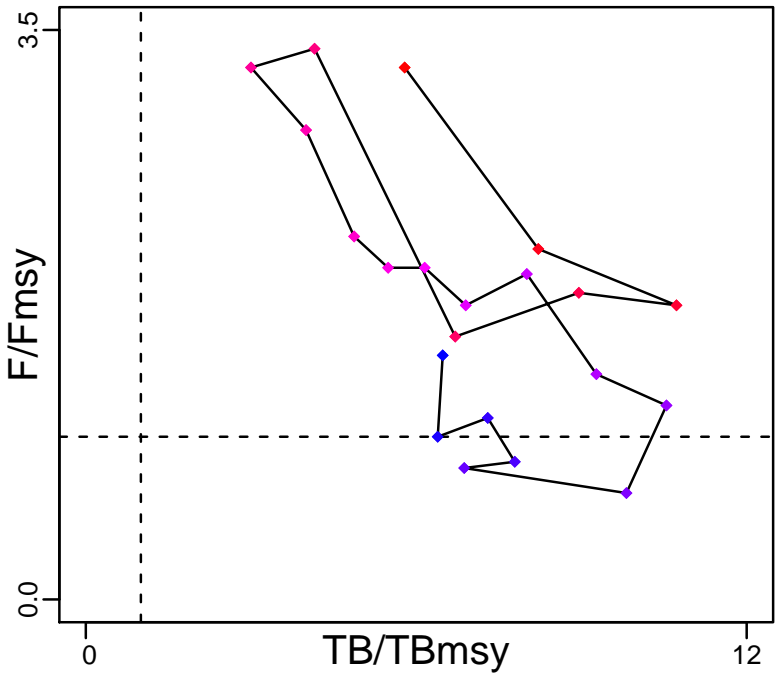
Metadata	
Scientific Name	Sardinella aurita
Current Assess ID	FAO-SPNWA-RSARDINWA-1990-2010-CHING
Area	West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa
Asmts in RAM	2010

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	-	-	-

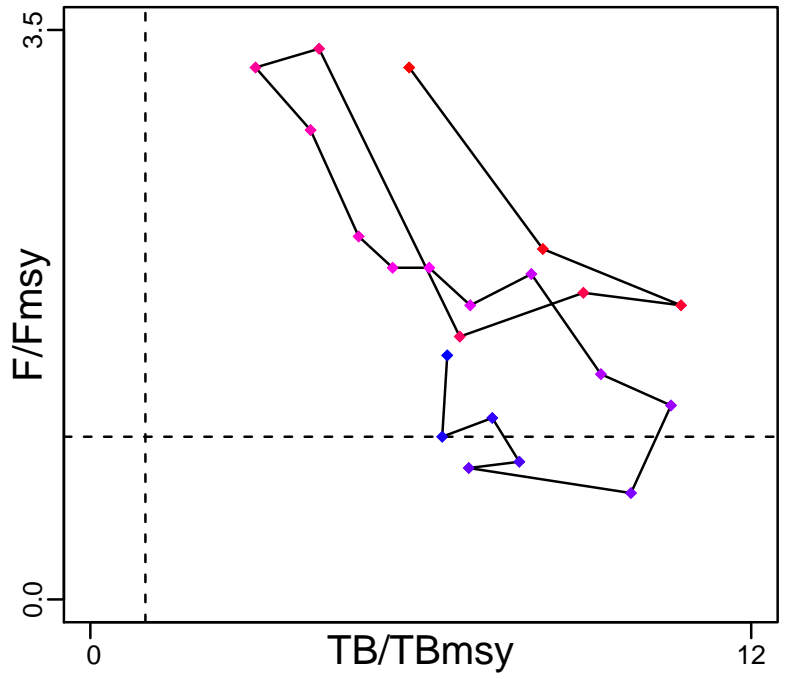
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	637,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.85	-	-
ER	ER-calc-ratio	2010	0.848	-	-
TC	TC-MT	2010	540,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2010	5.79		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	3.269		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Round Sardinella West Africa [RSARDINWA]

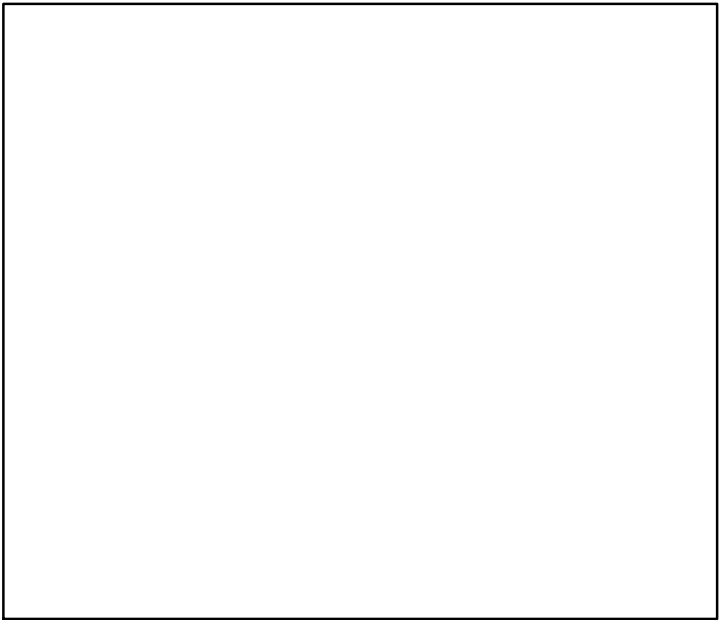
Kobe MSYpref (1990–2010–CHING)



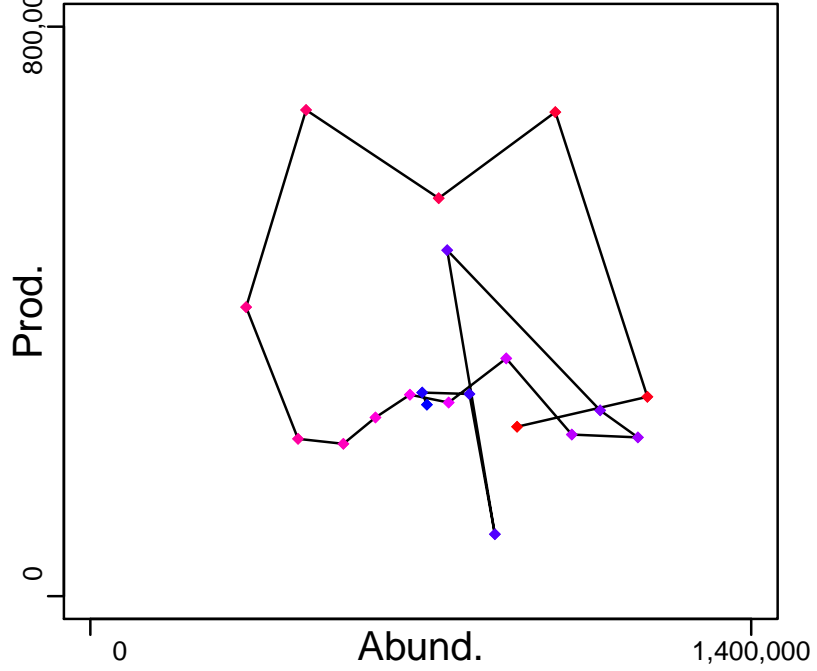
Kobe MGTpref (1990–2010–CHING)



Spawner Recruit*



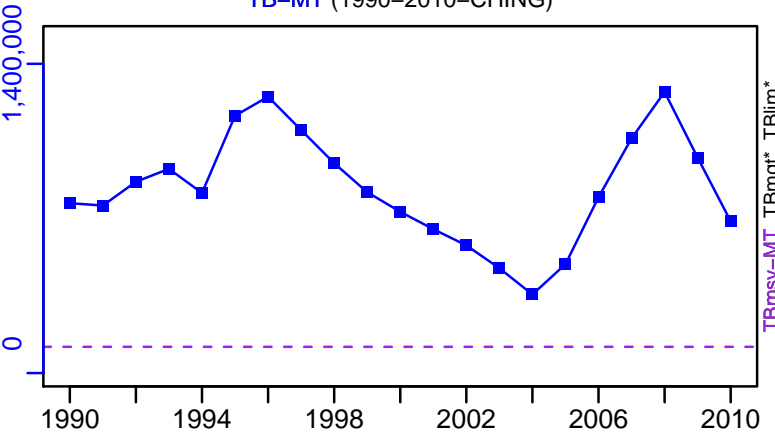
Production (1990–2010–CHING)



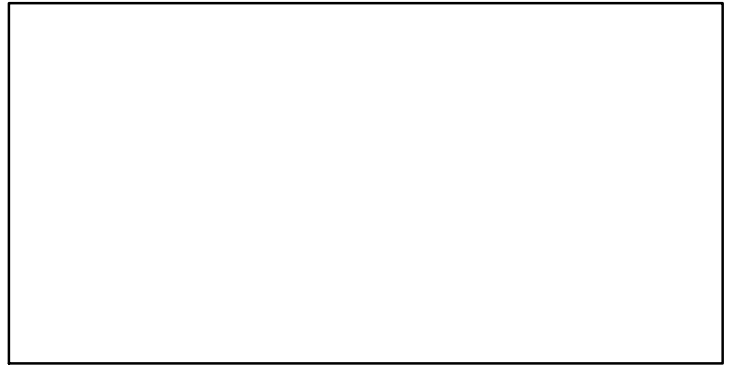
◆ Start Year ◆ End Year * No Data

Round Sardinella West Africa [RSARDINWA]

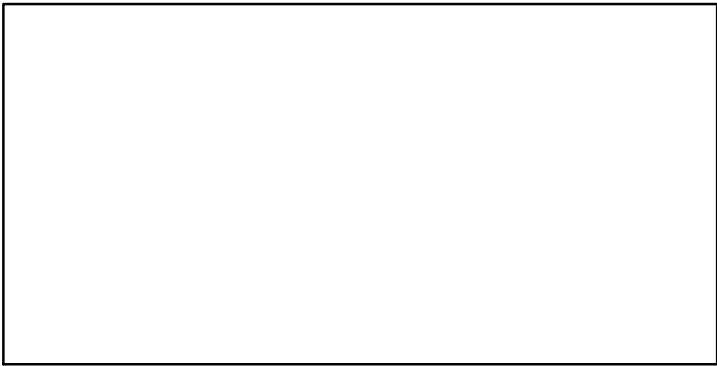
TB-MT (1990-2010-CHING)



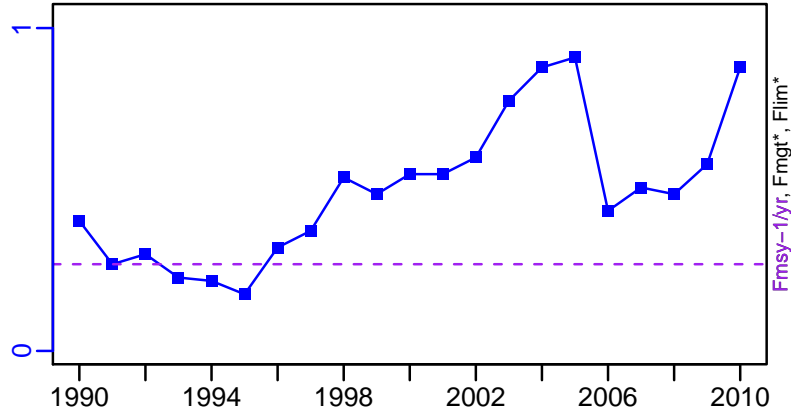
SSB*



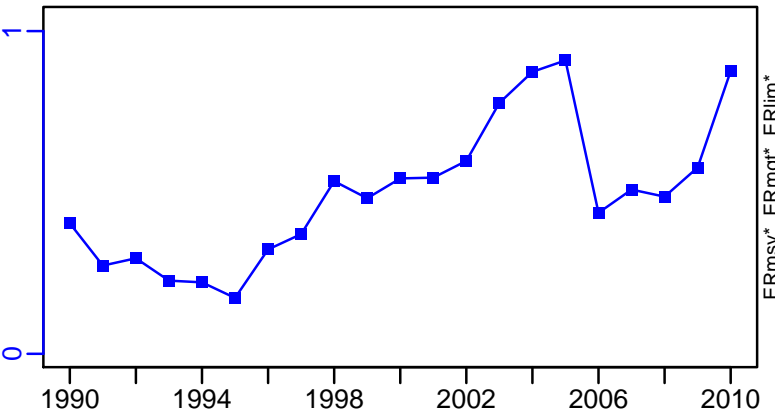
TN *



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



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



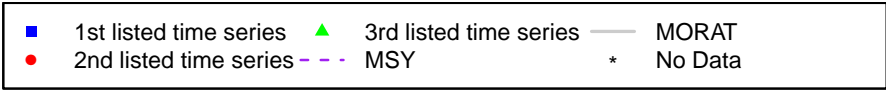
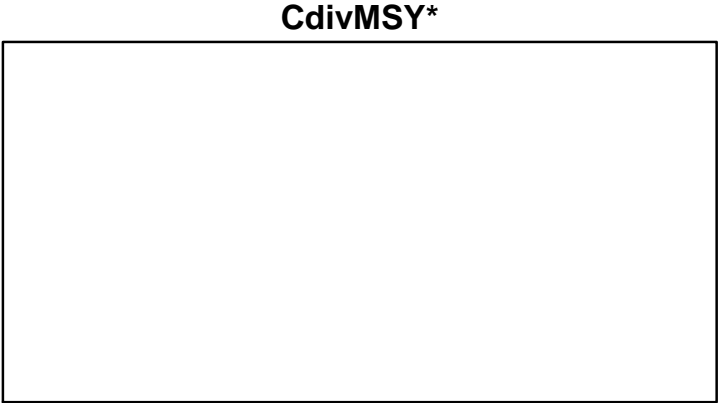
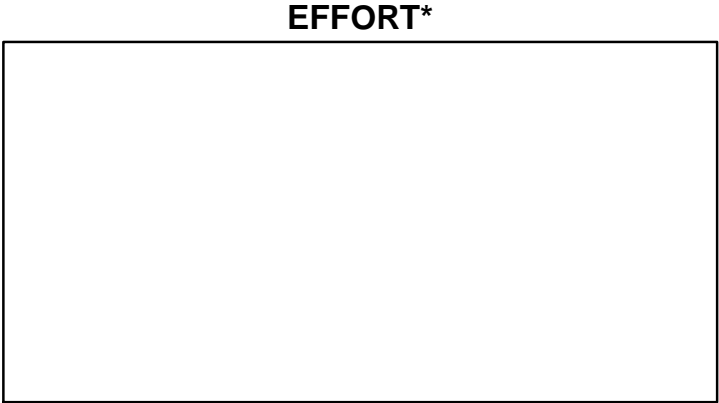
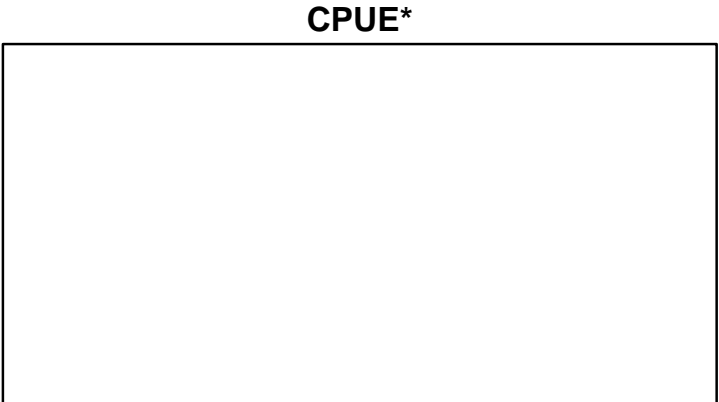
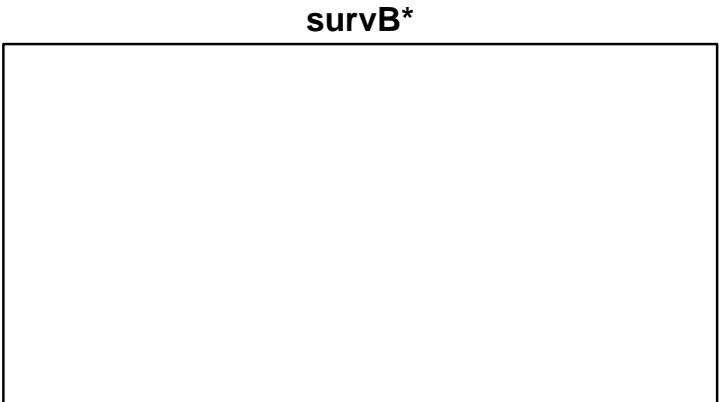
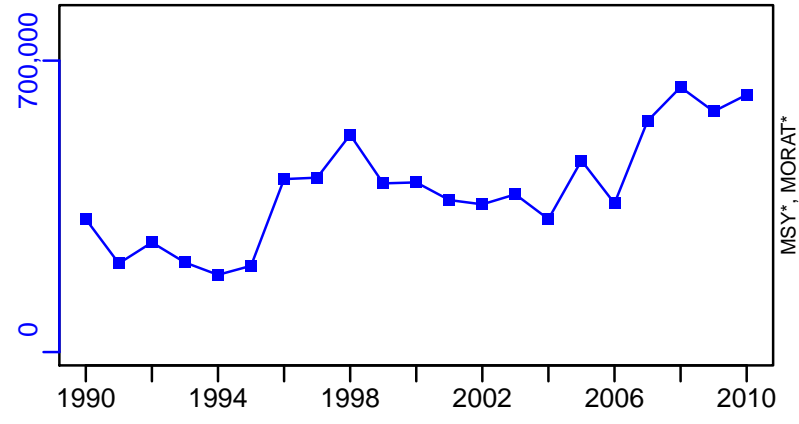
Recruits*



Round Sardinella West Africa [RSARDINWA]

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

TAC*, Cpair*, Cadv*



Sardinella West Africa [SARDINWA]

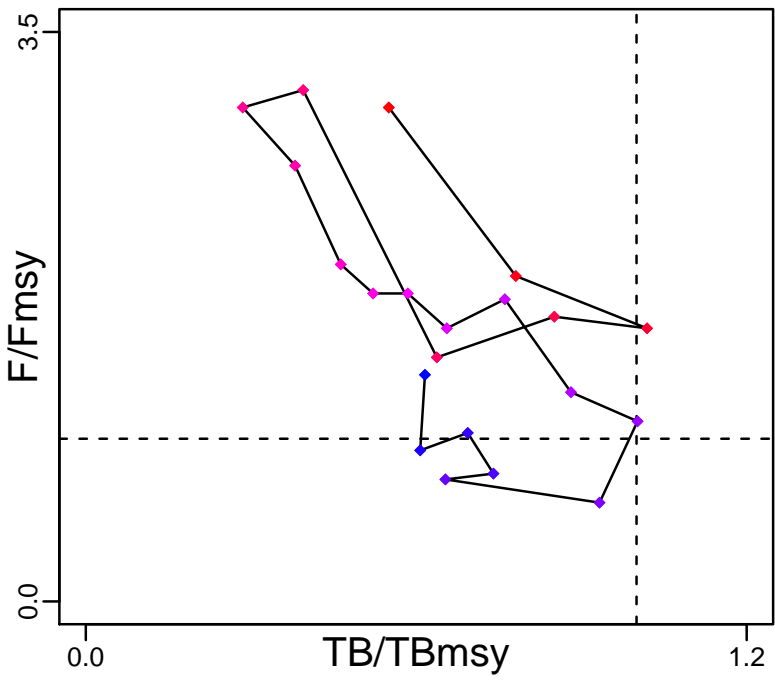
Metadata	
Scientific Name	Sardinella spp
Current Assess ID	FAO-SPNWA-SARDINWA-1990-2010-CHING
Area	West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa
Asmts in RAM	2010

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	-	-	-

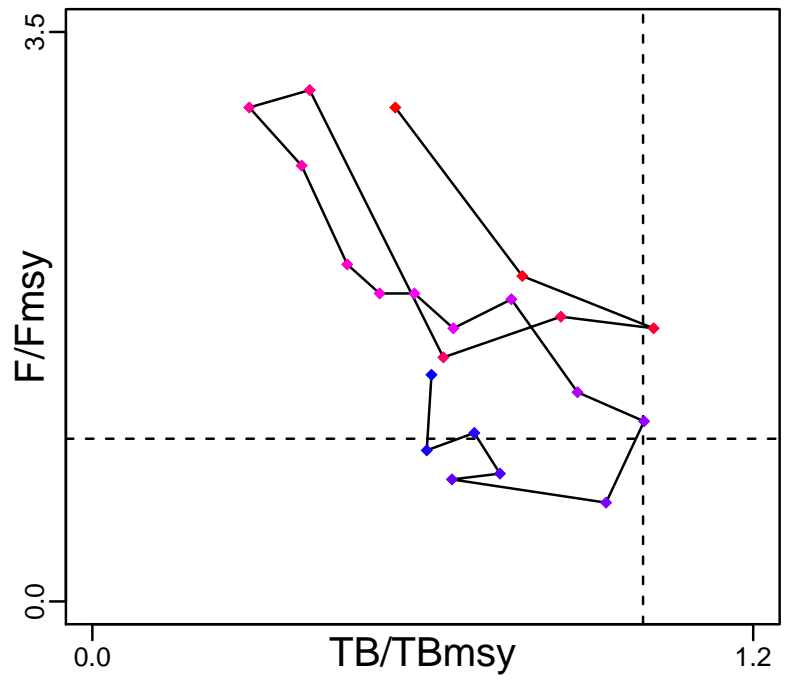
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	637,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.85	-	-
ER	ER-calc-ratio	2010	0.848	-	-
TC	TC-MT	2010	540,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2010	0.55		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	3.036		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sardinella West Africa [SARDINWA]

Kobe MSYpref (1990–2010–CHING)



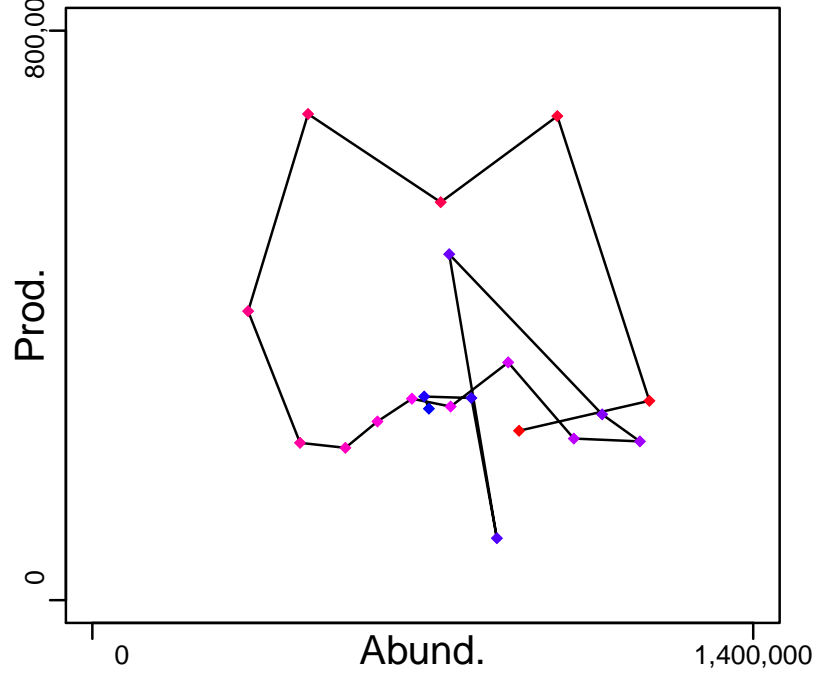
Kobe MGTpref (1990–2010–CHING)



Spawner Recruit*



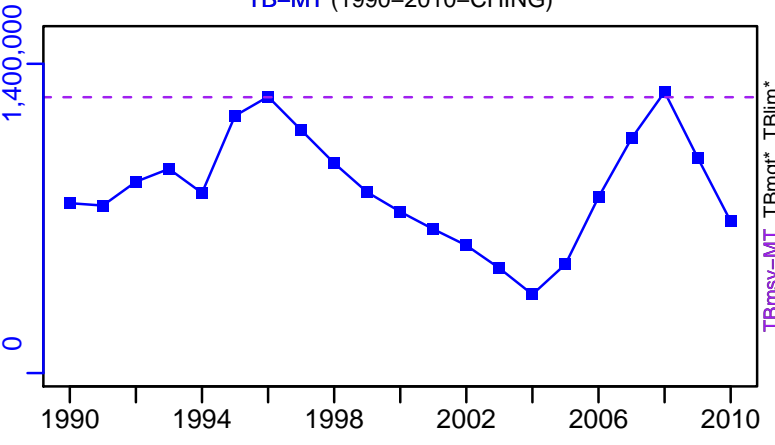
Production (1990–2010–CHING)



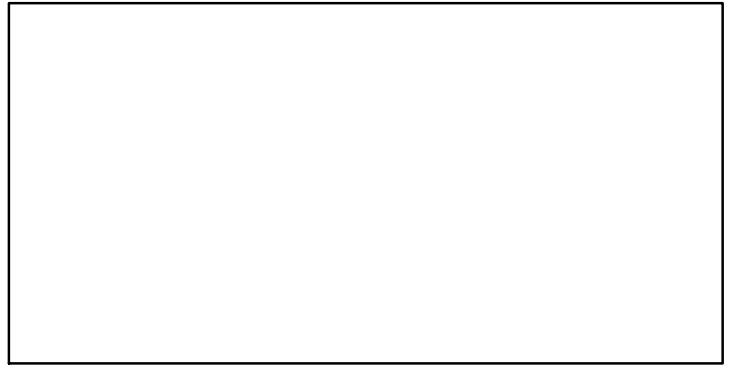
◆ Start Year ◆ End Year * No Data

Sardinella West Africa [SARDINWA]

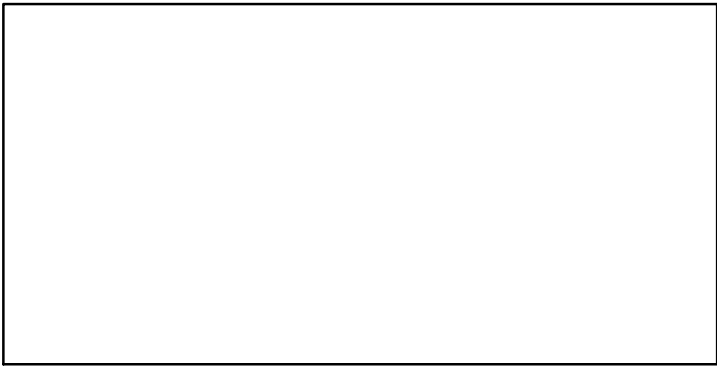
TB-MT (1990-2010-CHING)



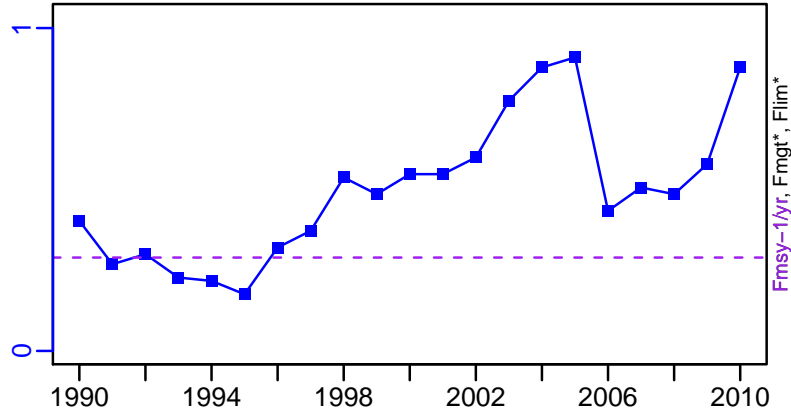
SSB*



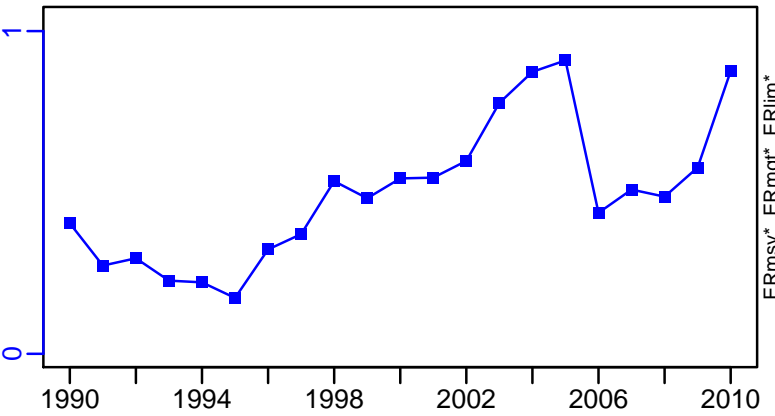
TN *



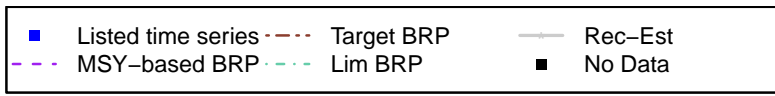
F-1/yr (1990-2010-CHING)



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



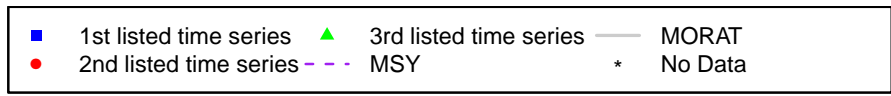
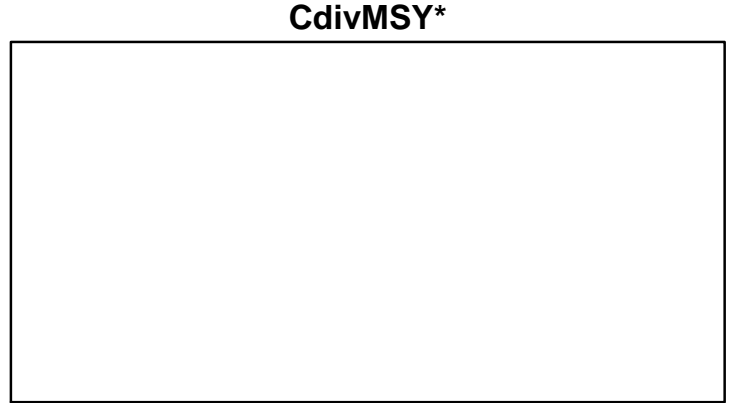
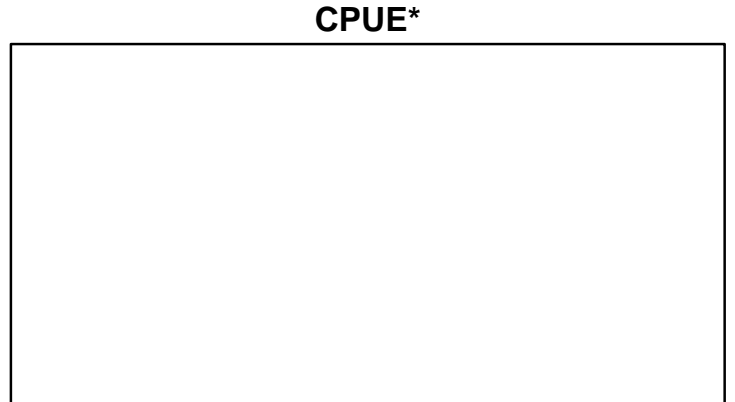
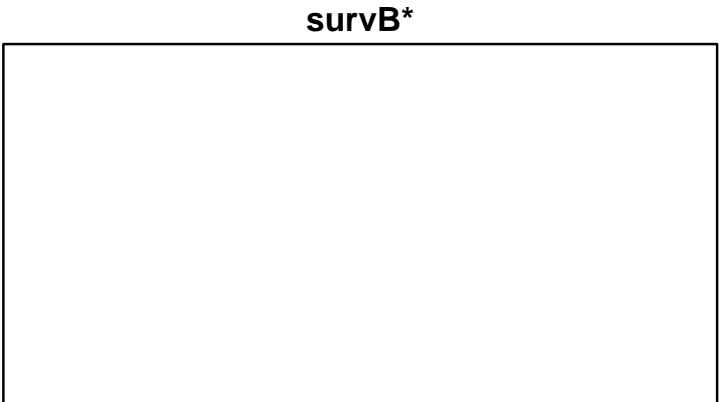
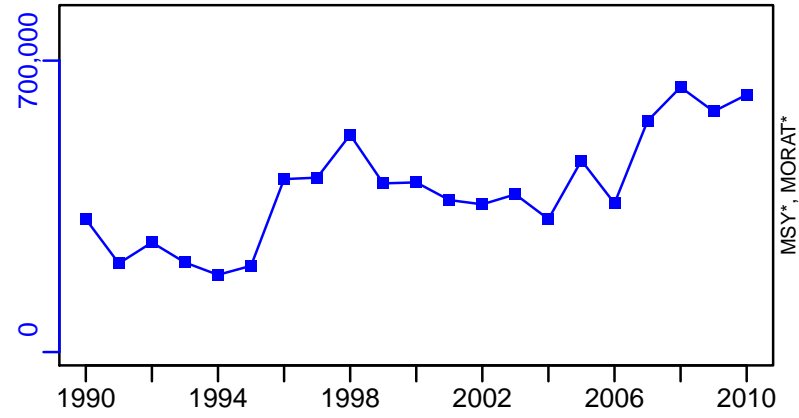
Recruits*



Sardinella West Africa [SARDINWA]

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

TAC*, Cpair*, Cadv*



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	5.28	-	-
ER	ER-calc-ratio	2010	5.288	-	-
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]

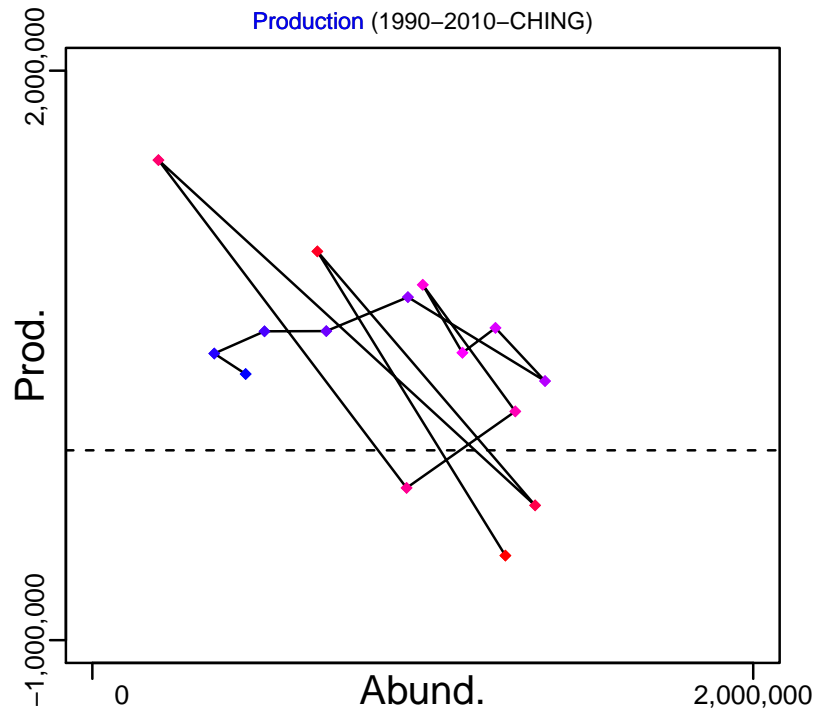
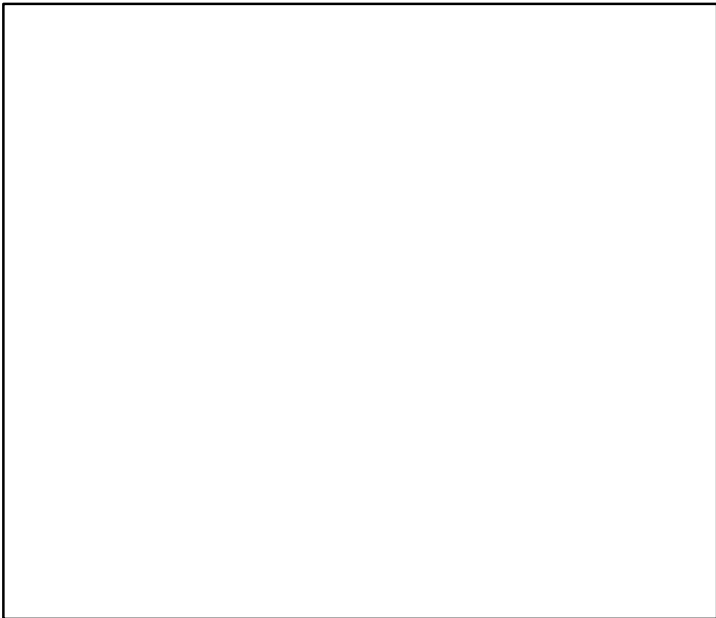
Kobe MSY*



Kobe MGT*



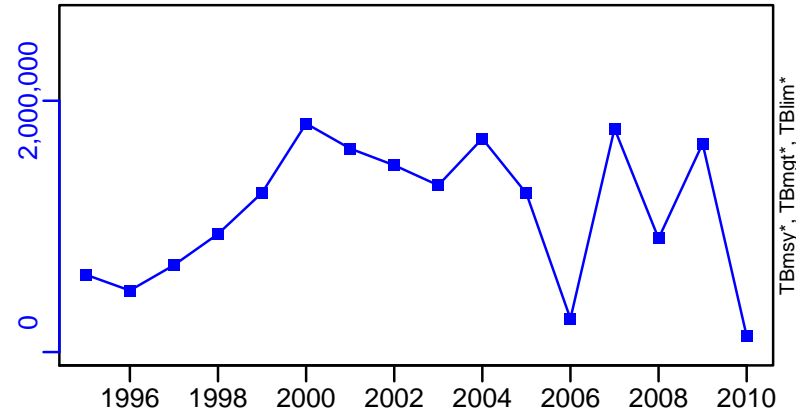
Spawner Recruit*



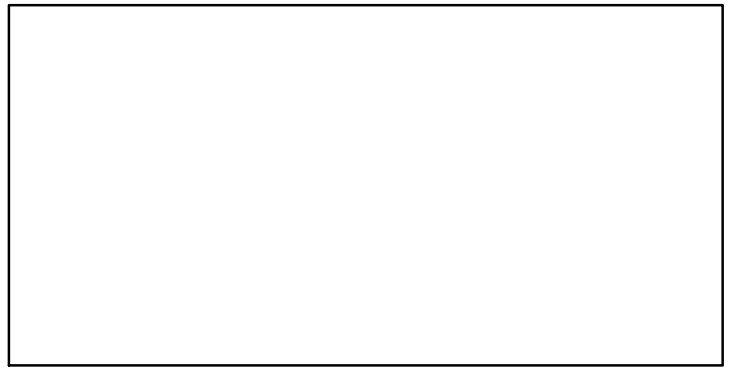
◆ Start Year ◆ End Year * No Data

Sardine West Africa Zone A+B [SARDWAZAB]

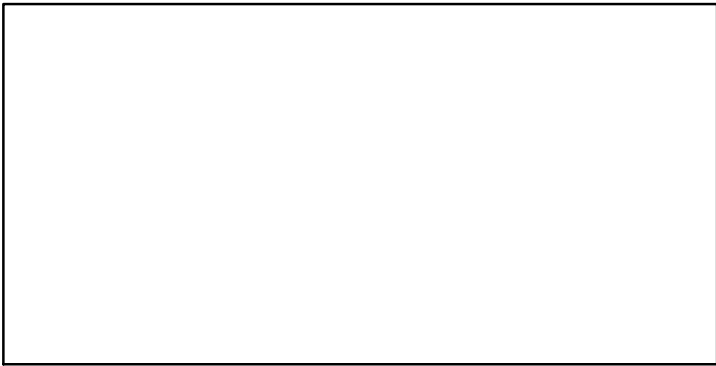
TB-MT (1990-2010-CHING)



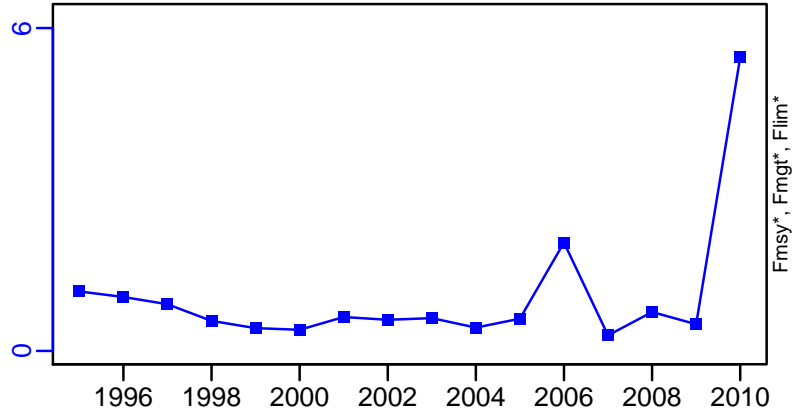
SSB*



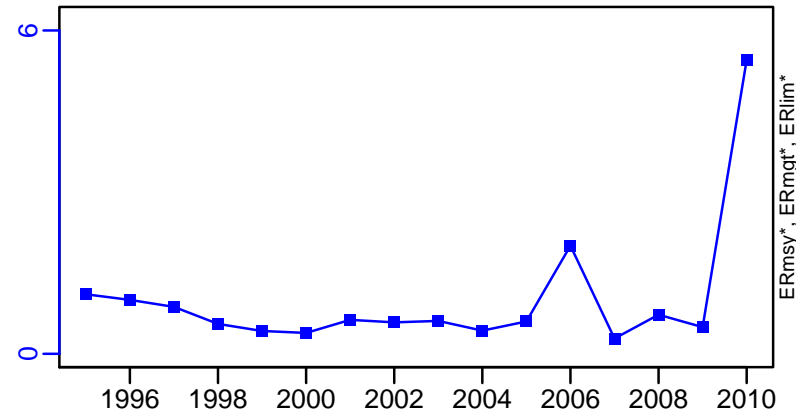
TN *



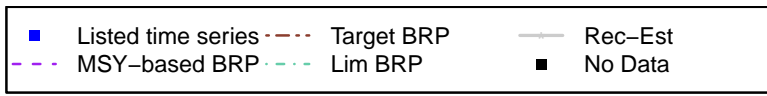
F-1/yr (1990-2010-CHING)



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



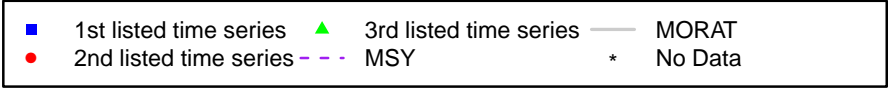
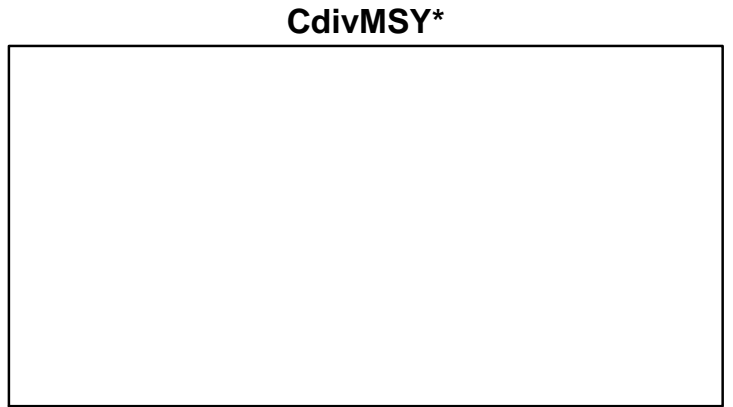
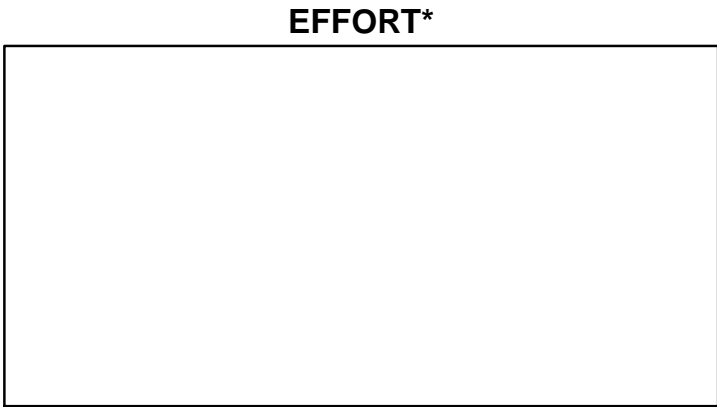
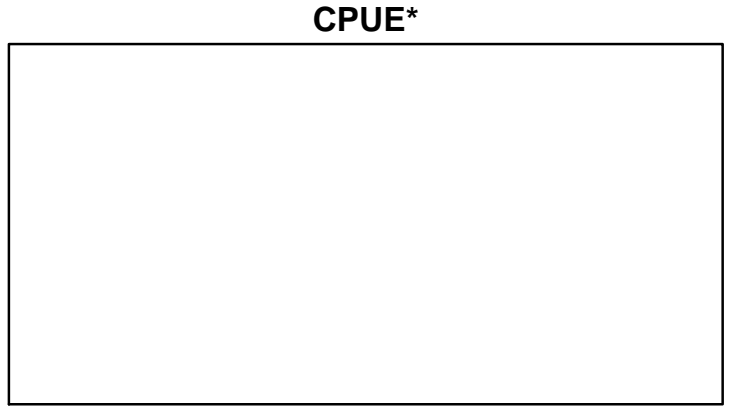
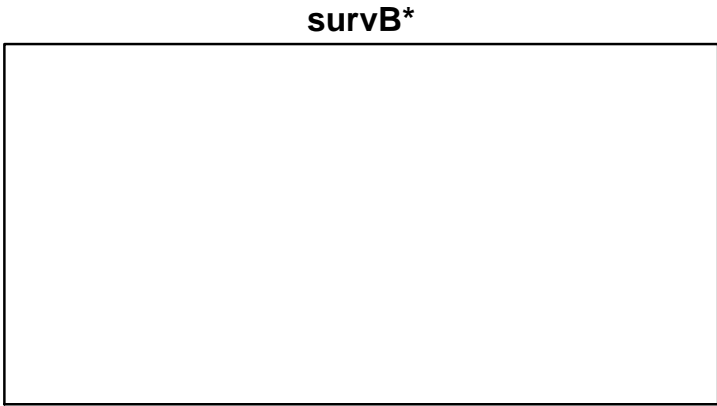
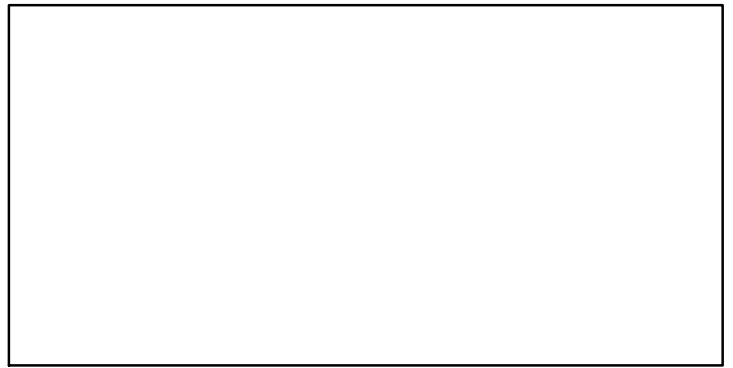
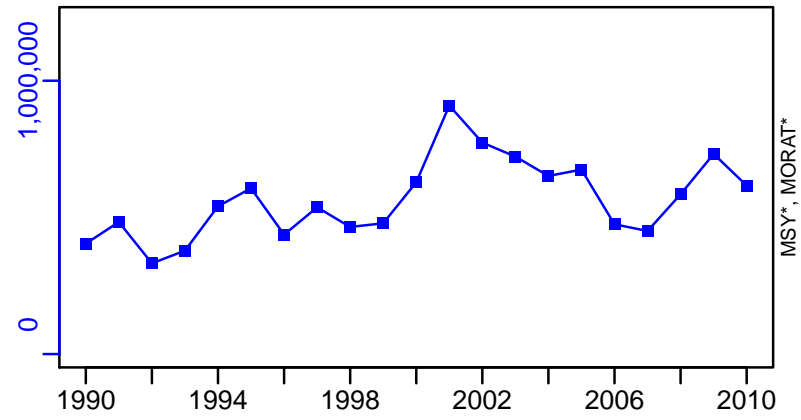
Recruits*



Sardine West Africa Zone A+B [SARDWAZAB]

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

TAC*, Cpair*, Cadv*



Sardine West Africa Zone C [SARDWAZC]

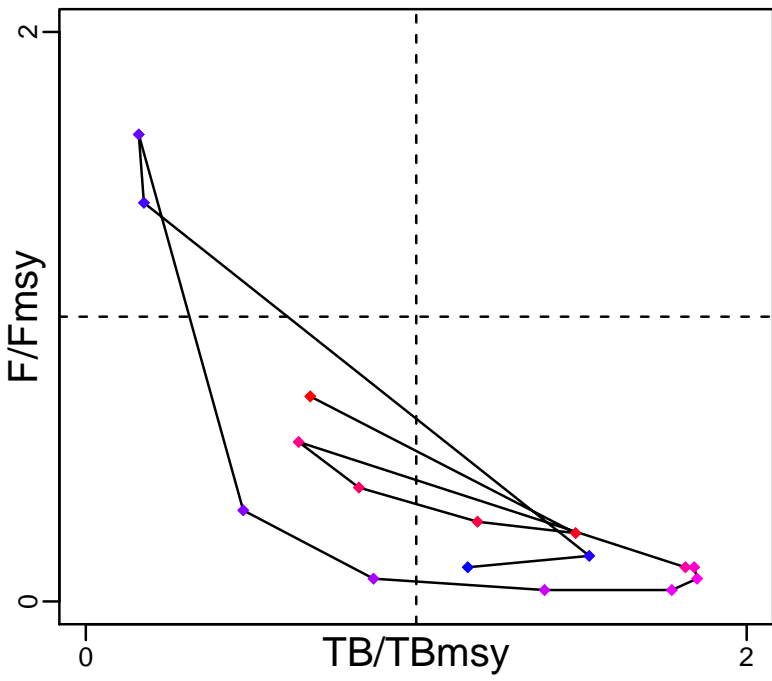
Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	FAO-SPNWA-SARDWAZC-1990-2010-CHING
Area	West Africa Zone C
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa
Asmts in RAM	2010

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	-	-	-

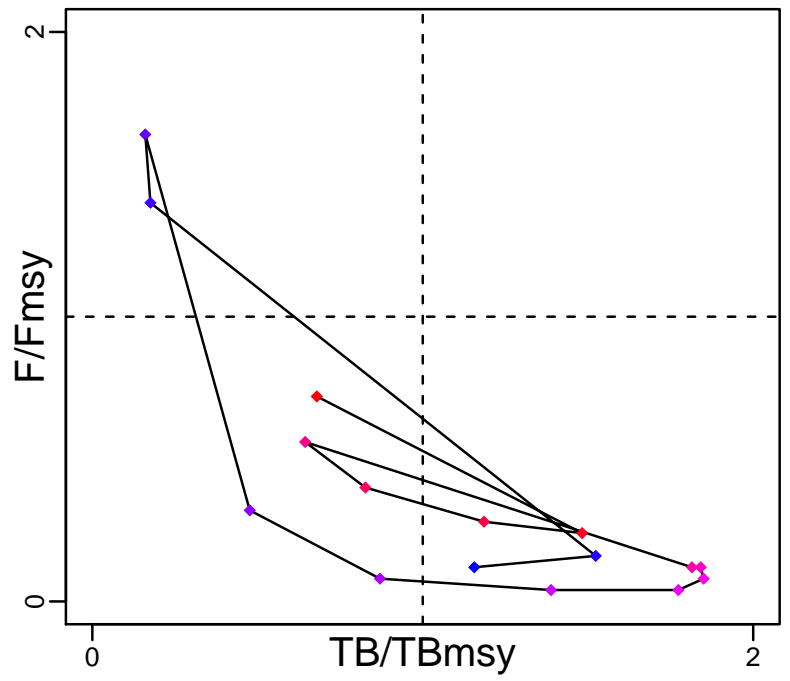
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	2,310,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.18	-	-
ER	ER-calc-ratio	2010	0.182	-	-
TC	TC-MT	2010	420,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2010	0.679		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	0.72		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sardine West Africa Zone C [SARDWAZC]

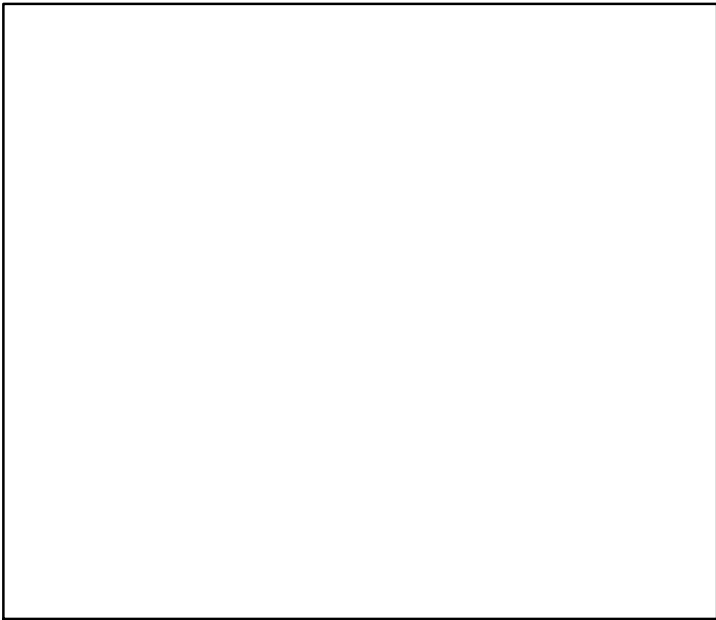
Kobe MSYpref (1990–2010–CHING)



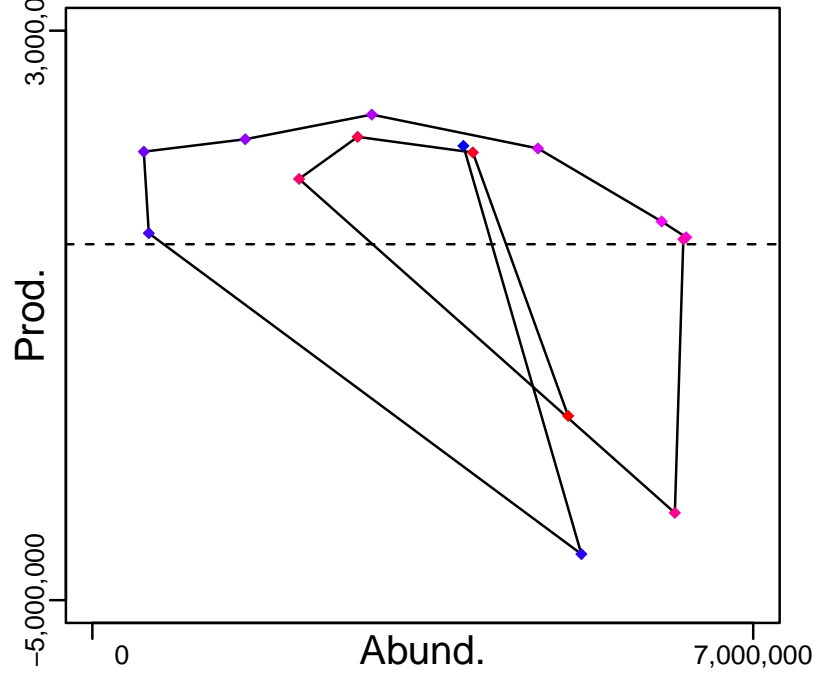
Kobe MGTpref (1990–2010–CHING)



Spawner Recruit*



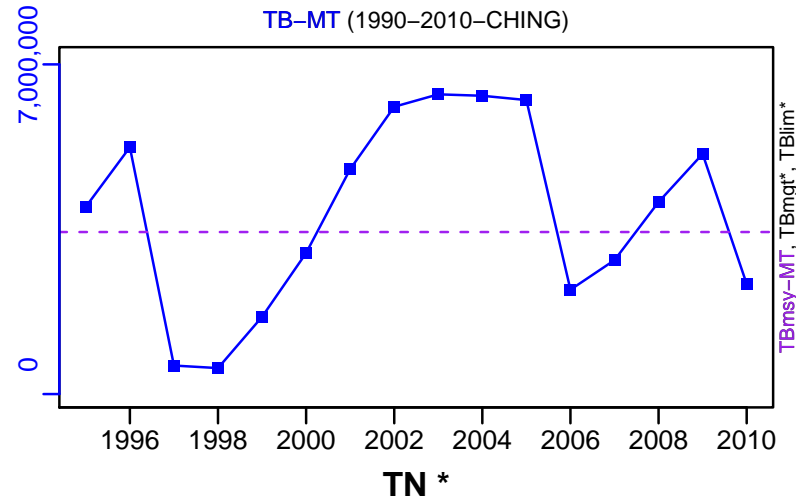
Production (1990–2010–CHING)



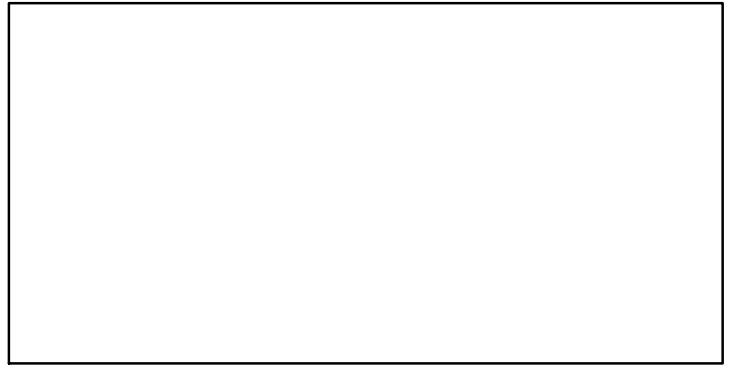
◆ Start Year ◆ End Year * No Data

Sardine West Africa Zone C [SARDWAZC]

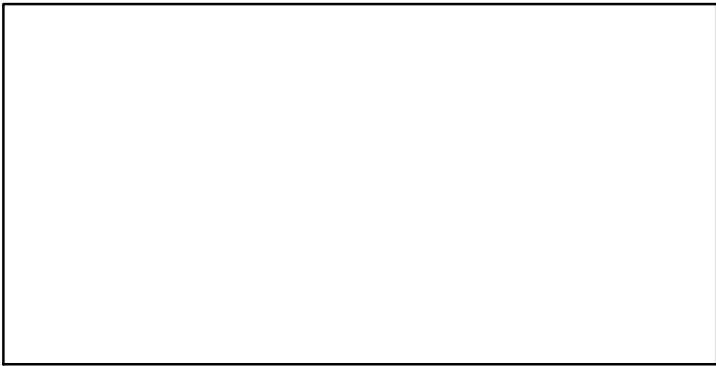
TB-MT (1990-2010-CHING)



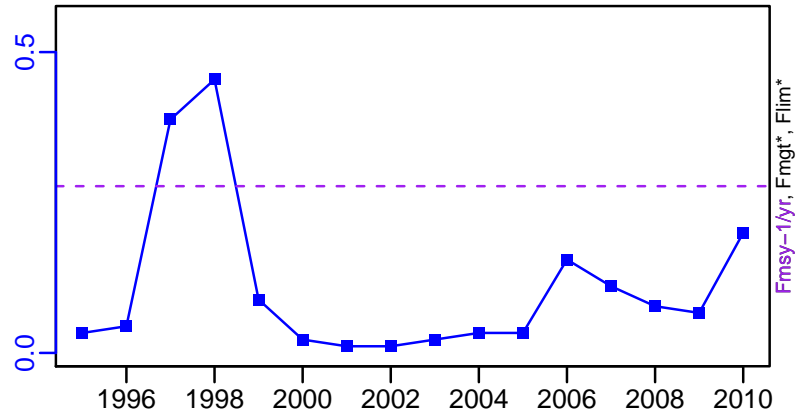
SSB*



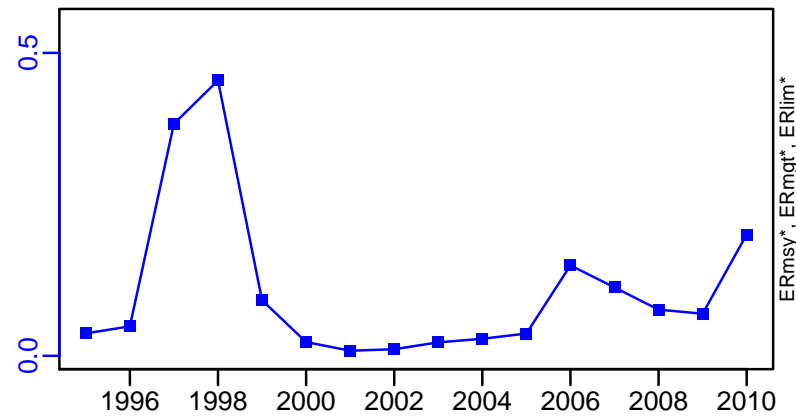
TN *



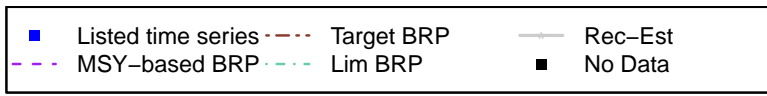
F-1/yr (1990-2010-CHING)



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



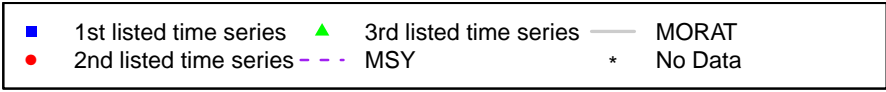
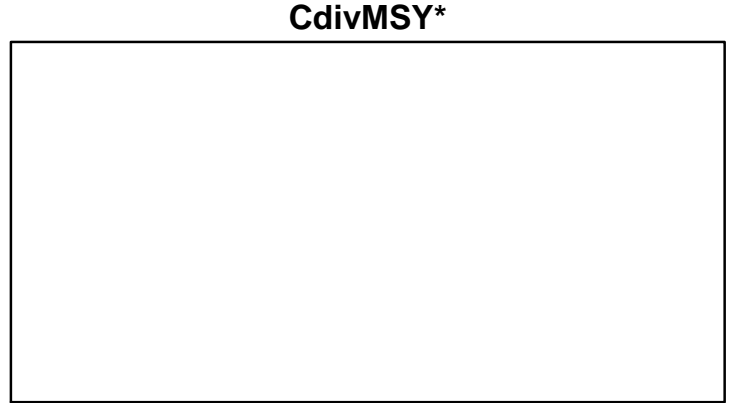
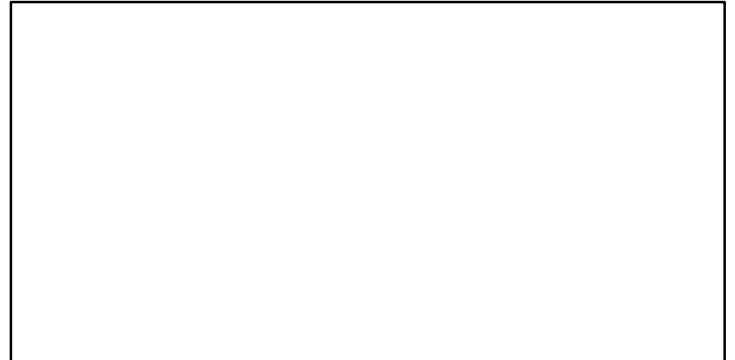
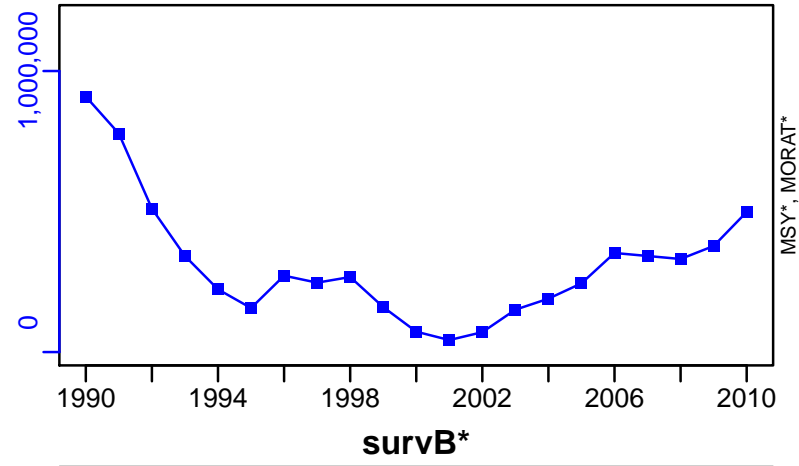
Recruits*



Sardine West Africa Zone C [SARDWAZC]

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

TAC*, Cpair*, Cadv*



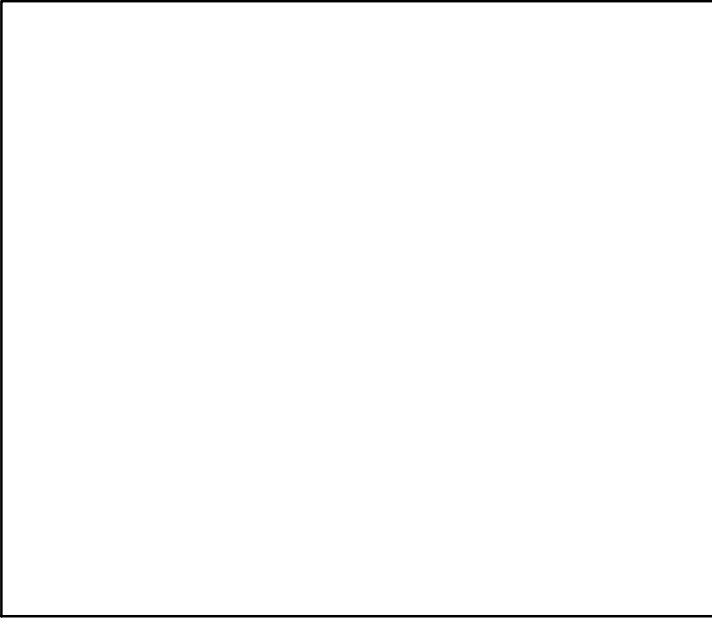
Sole West Africa Subgroup 1 [SOLEWASG1]

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

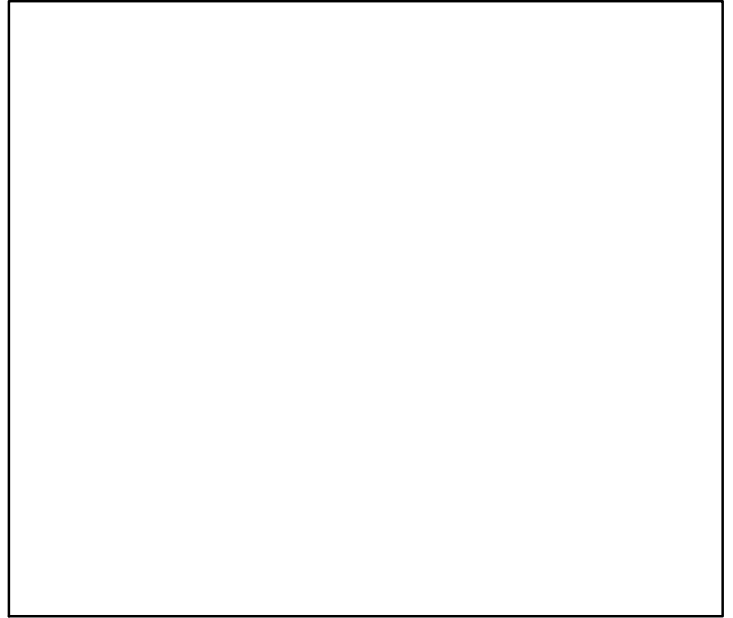
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

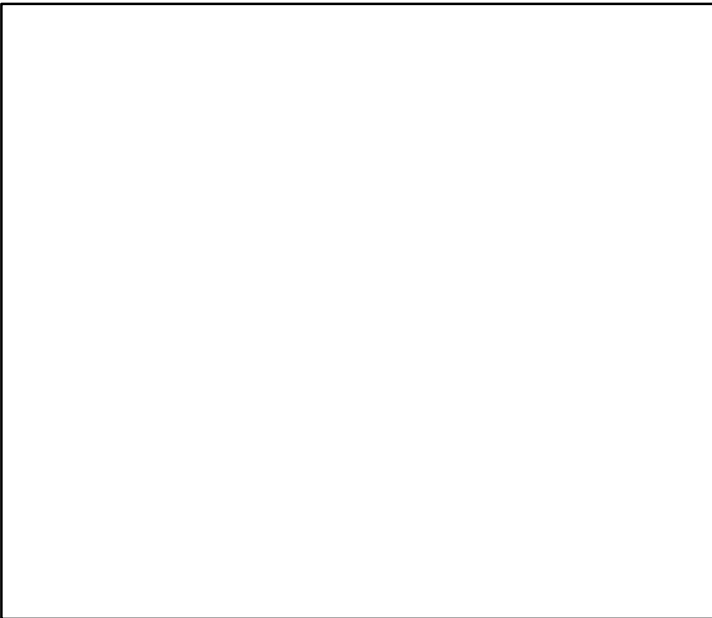
Kobe MSY*



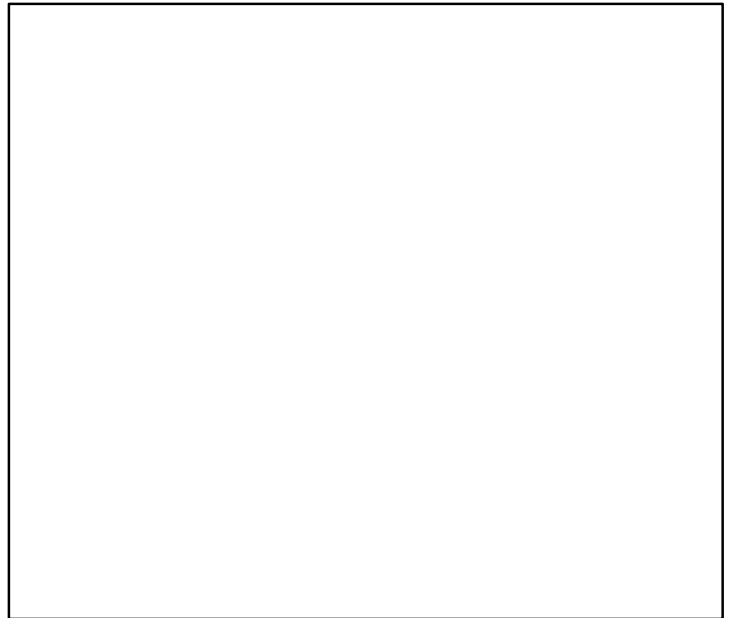
Kobe MGT*



Spawner Recruit*



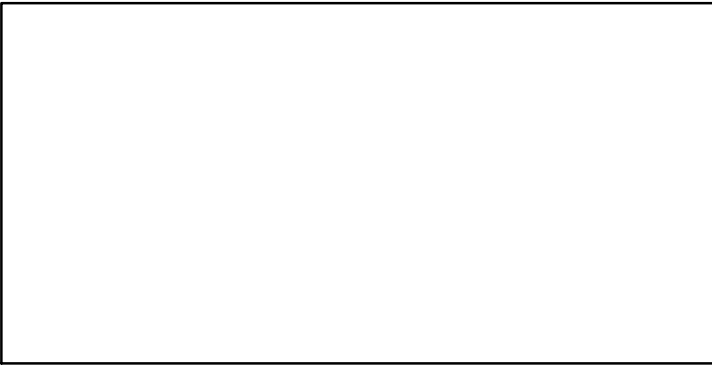
Production*



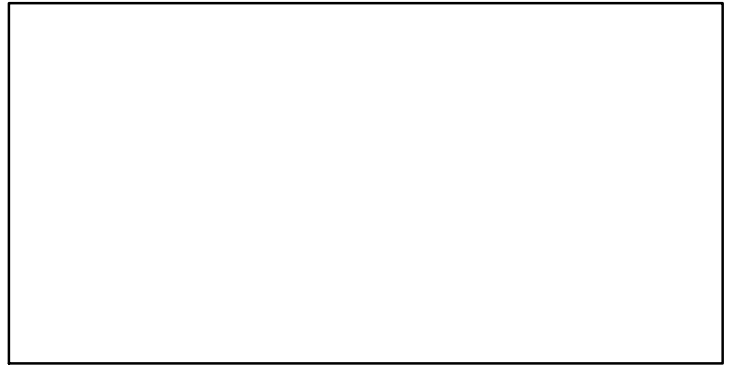
◆ Start Year ◆ End Year * No Data

Sole West Africa Subgroup 1 [SOLEWASG1]

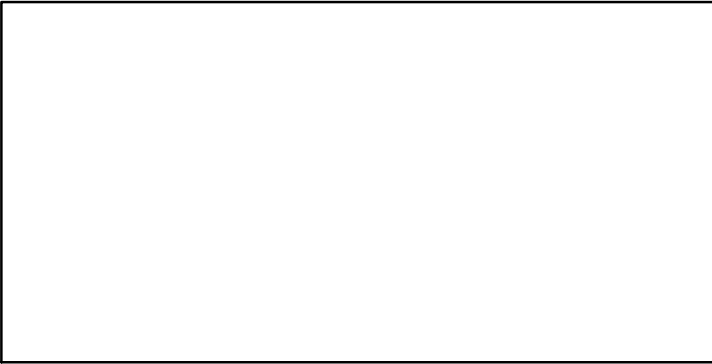
TB*



SSB*



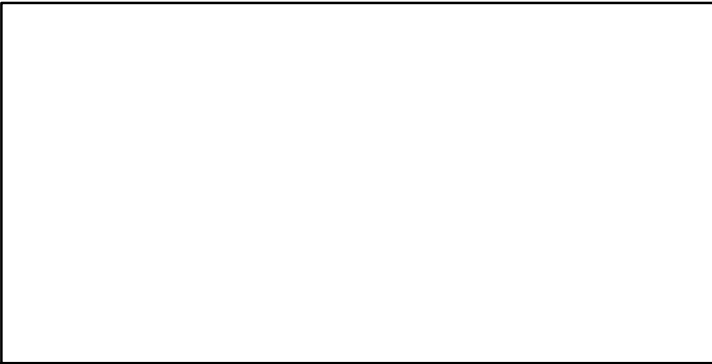
TN *



F*



ER*



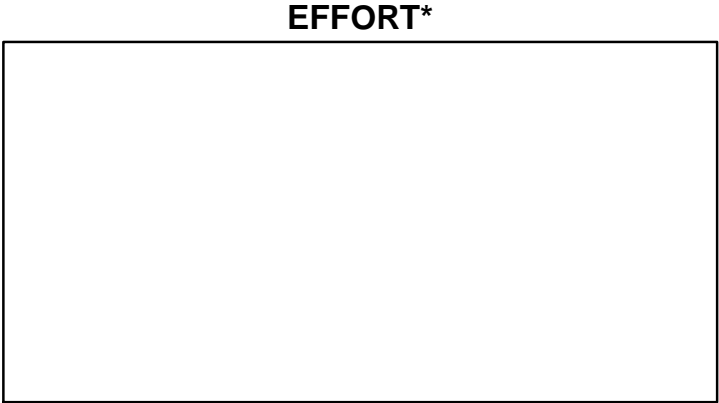
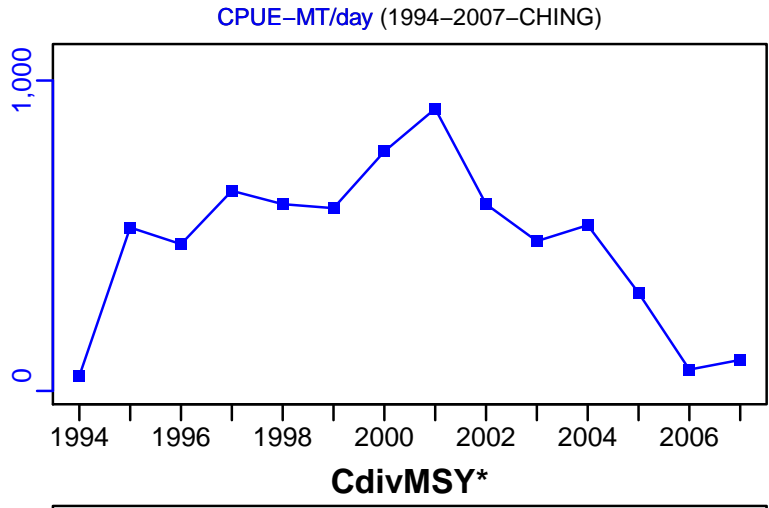
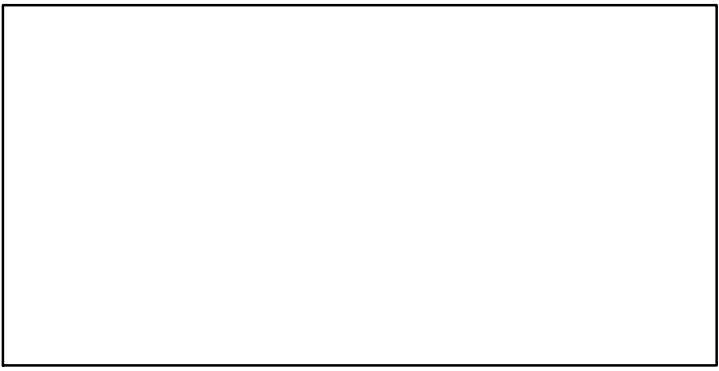
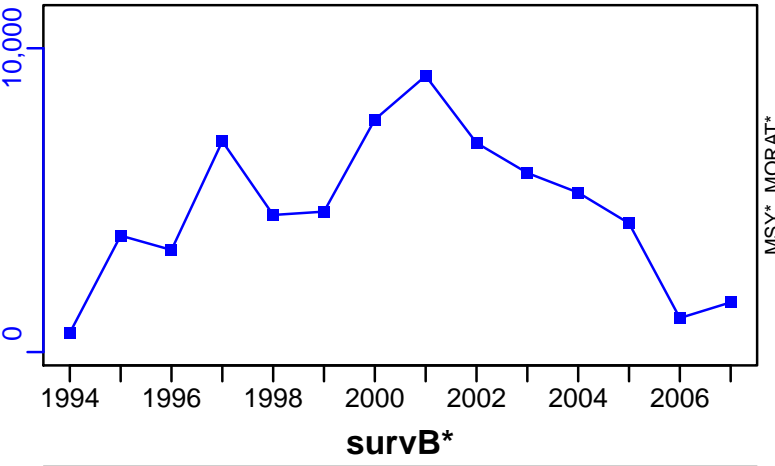
Recruits*



Sole West Africa Subgroup 1 [SOLEWASG1]

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

TAC*, Cpair*, Cadv*



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

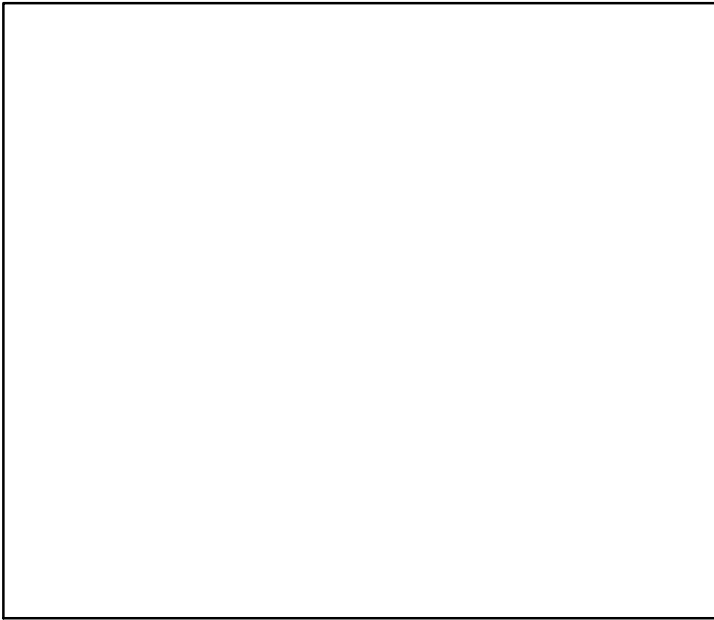
Sole West Africa Subgroup 3 [SOLEWASG3]

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	-	-	-		

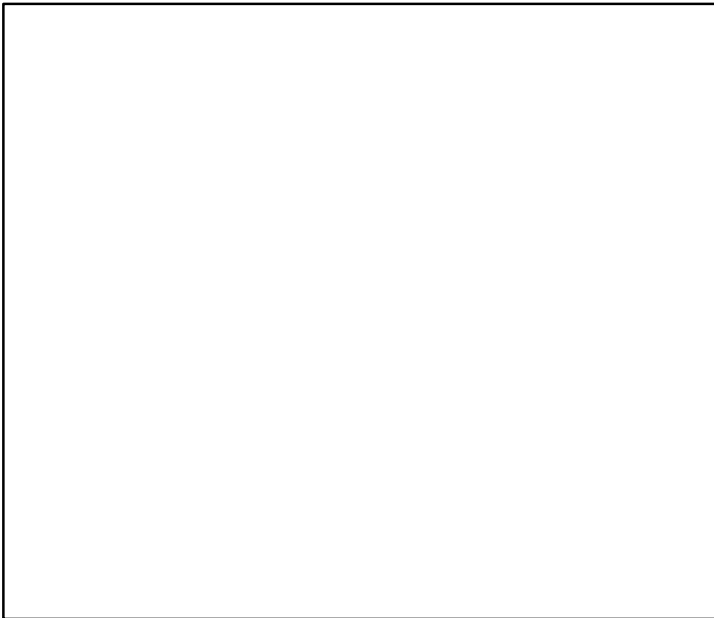
Kobe MSY*



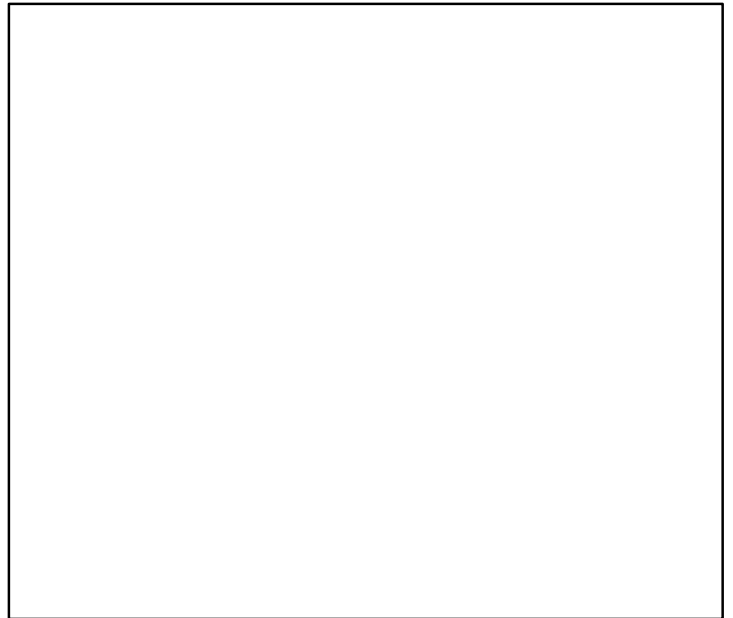
Kobe MGT*



Spawner Recruit*



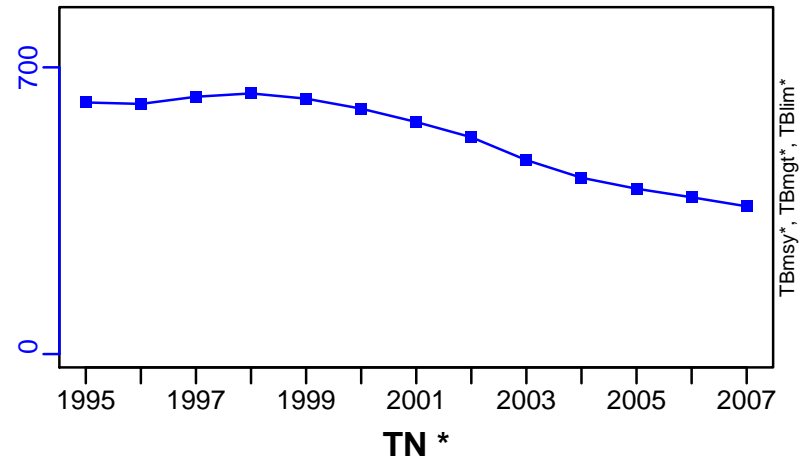
Production*



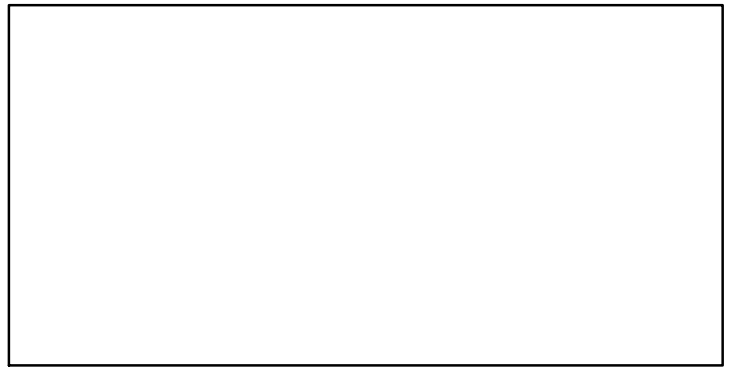
◆ Start Year ◆ End Year * No Data

Sole West Africa Subgroup 3 [SOLEWASG3]

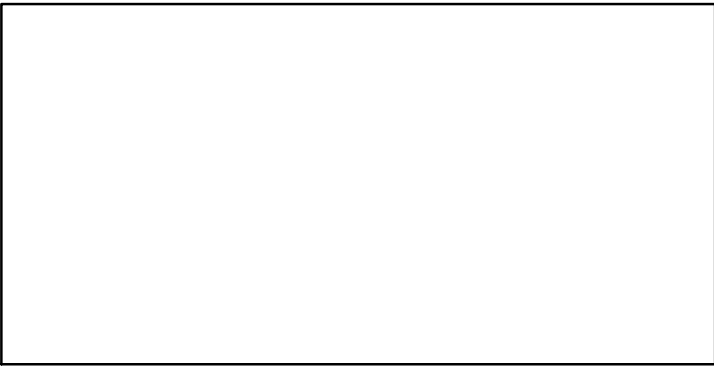
TB-index (1991-2007-CHING)



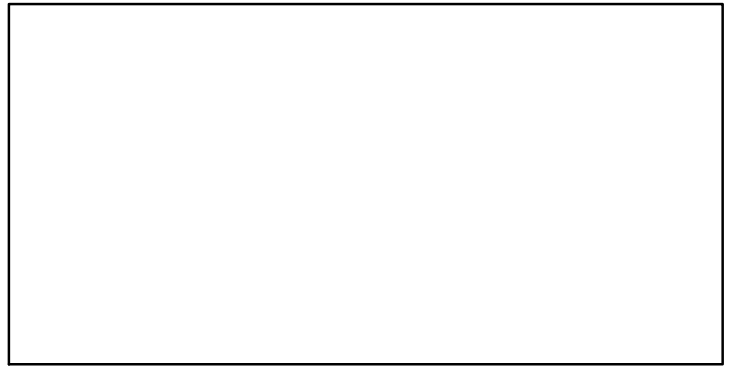
SSB*



TN *



F*



ER*



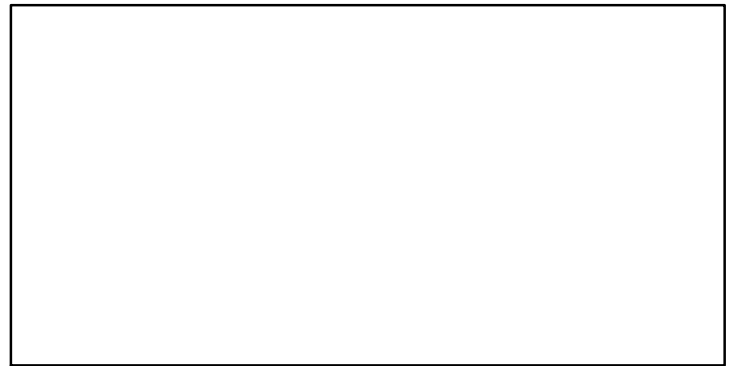
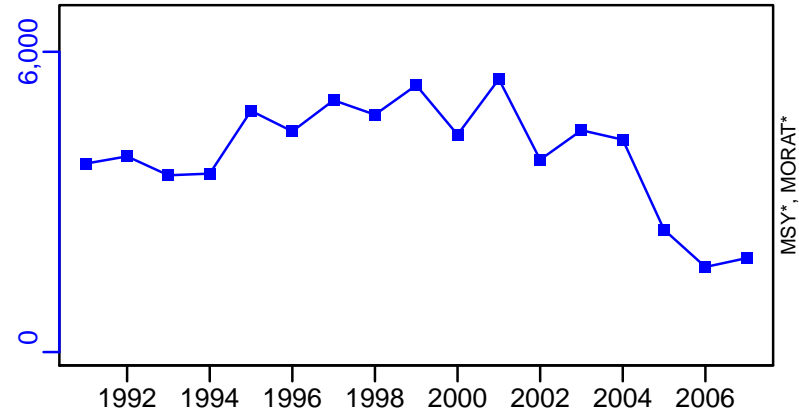
Recruits*



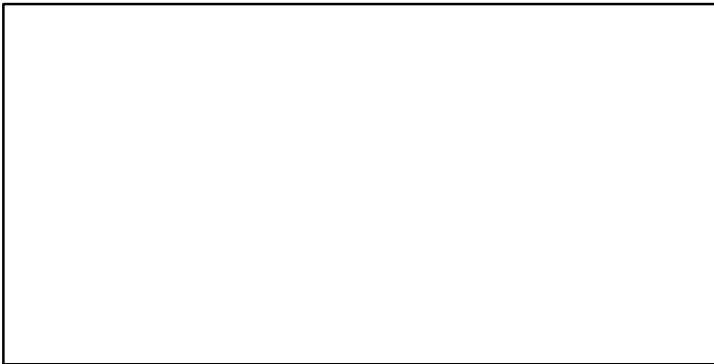
Sole West Africa Subgroup 3 [SOLEWASG3]

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

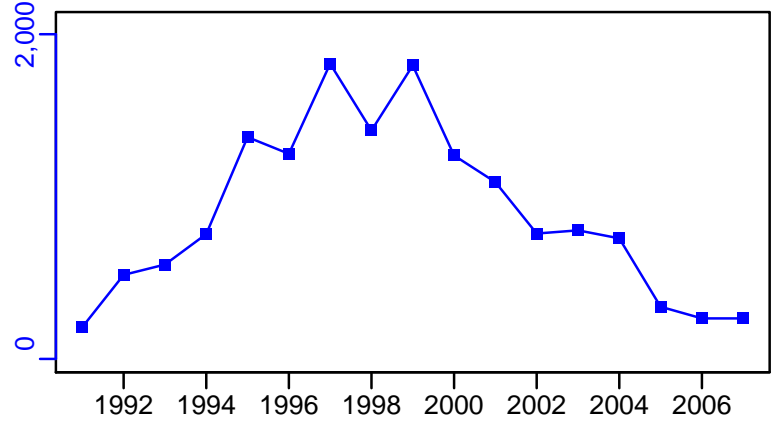
TAC*, Cpair*, Cadv*



survB*



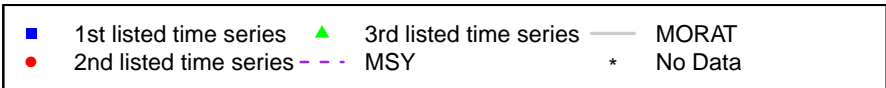
CPUE-kg/day (1991-2007-CHING)



EFFORT*



CdivMSY*



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	-	-	-		

Southern Pink Shrimp West Africa [SPSHRIMPWA]

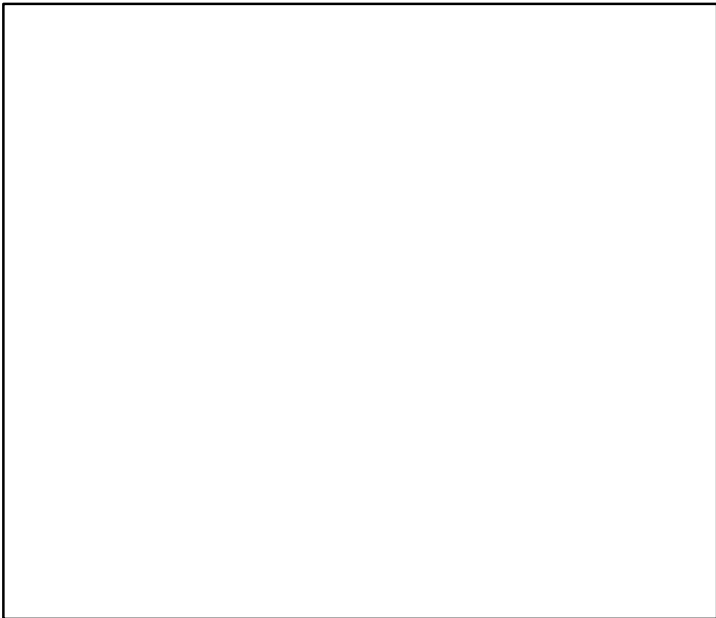
Kobe MSY*



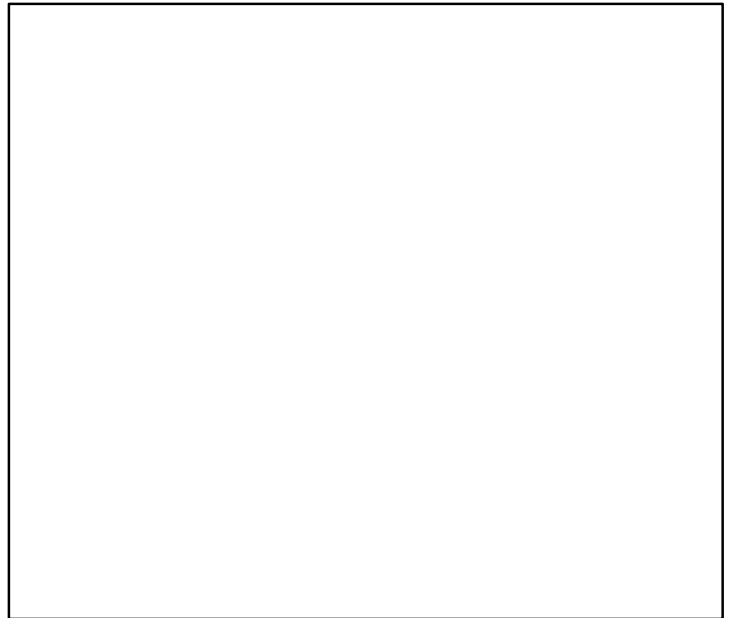
Kobe MGT*



Spawner Recruit*



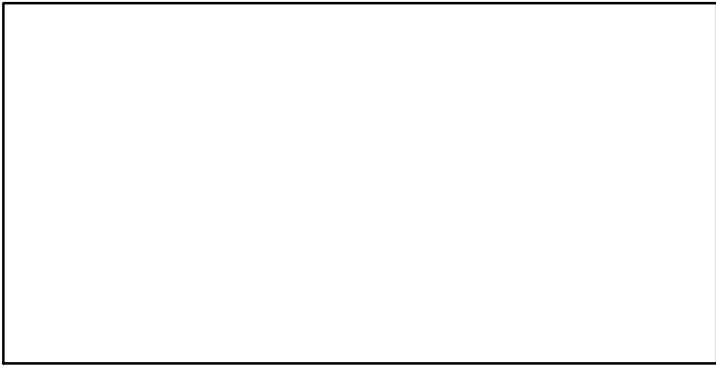
Production*



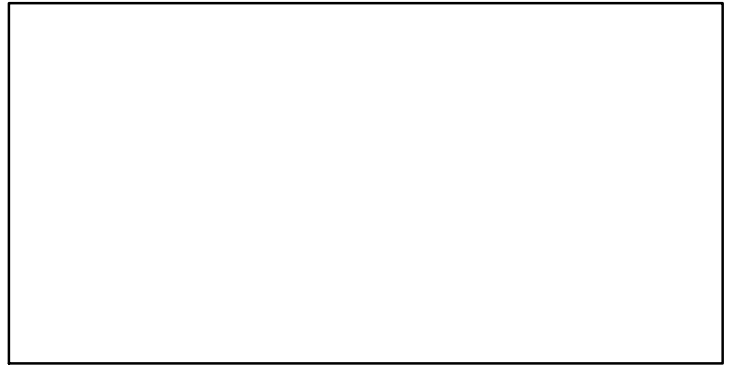
◆ Start Year ◆ End Year * No Data

Southern Pink Shrimp West Africa [SPSHRIMPWA]

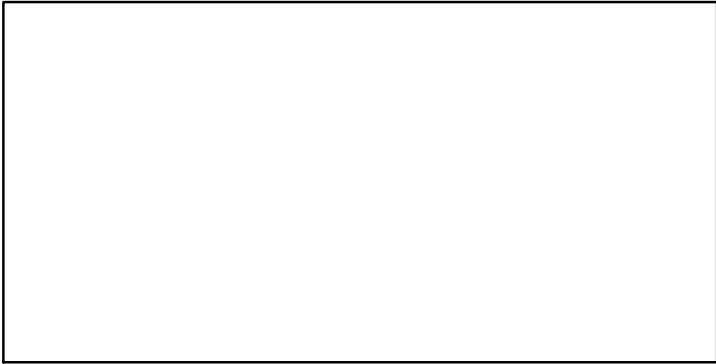
TB*



SSB*



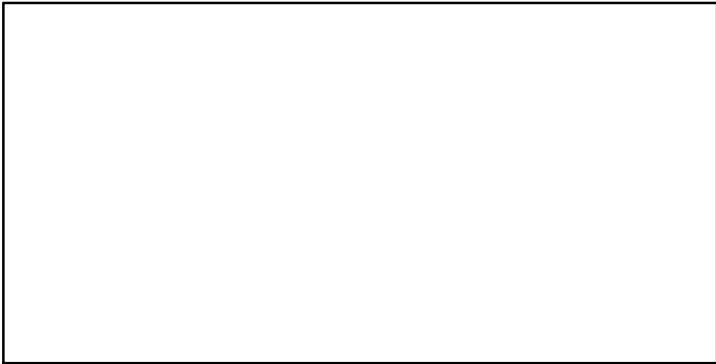
TN *



F*



ER*



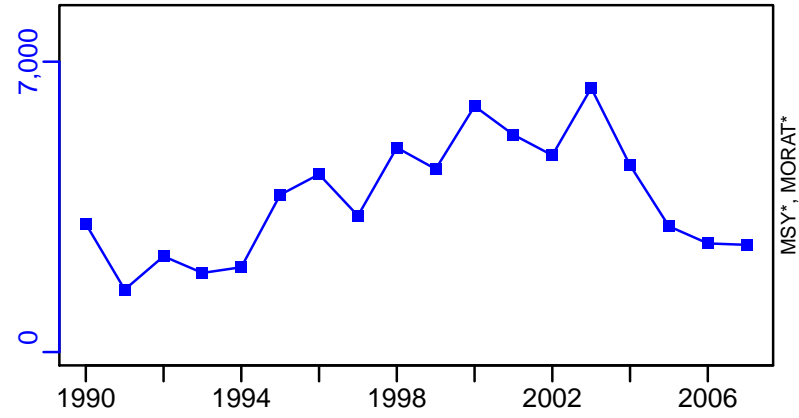
Recruits*



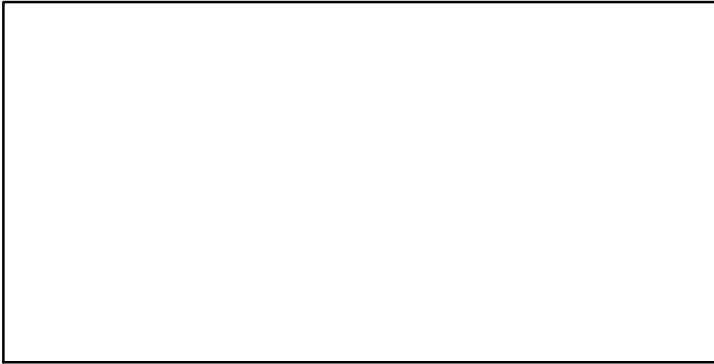
Southern Pink Shrimp West Africa [SPSHRIMPWA]

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

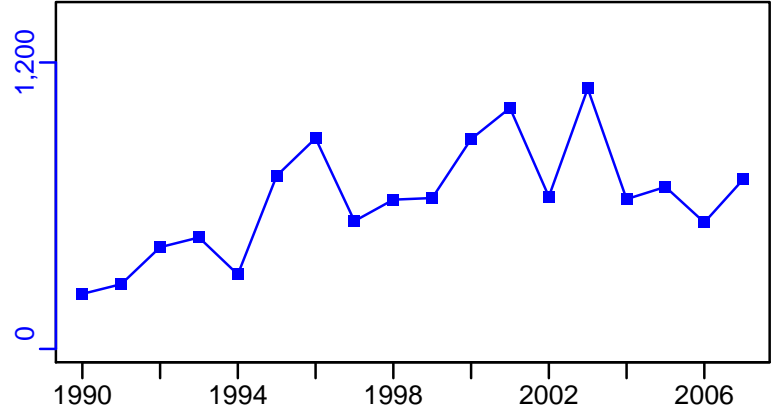
TAC*, Cpair*, Cadv*



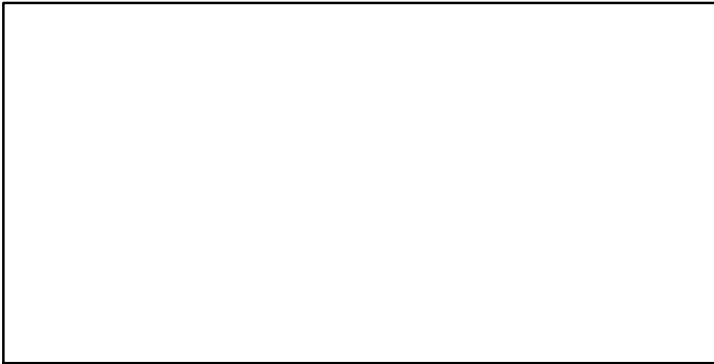
survB*



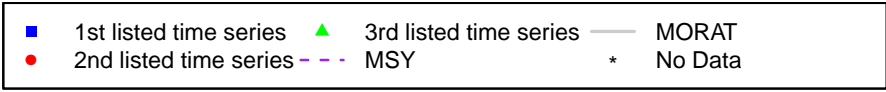
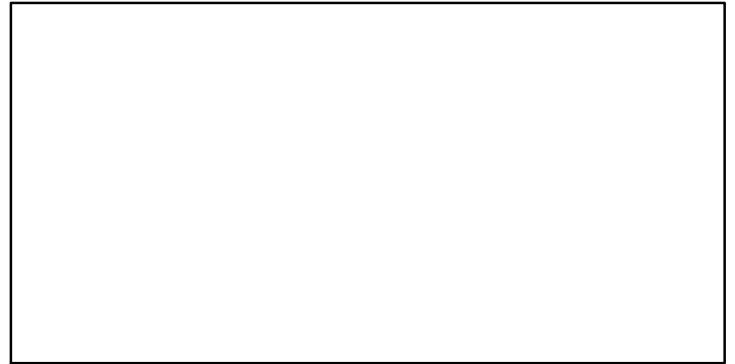
CPUE-kg/day (1990-2007-CHING)



EFFORT*



CdivMSY*



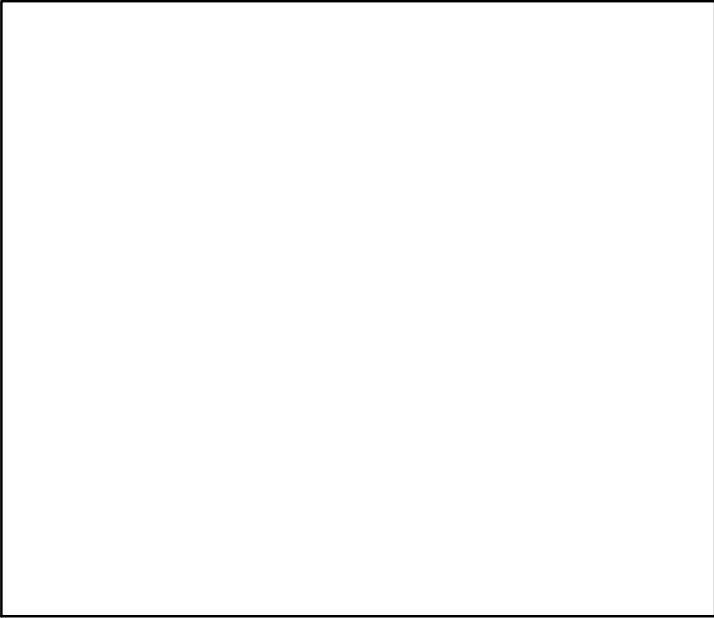
Threadfin West Africa Subgroup 1 [THREADWASG1]

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

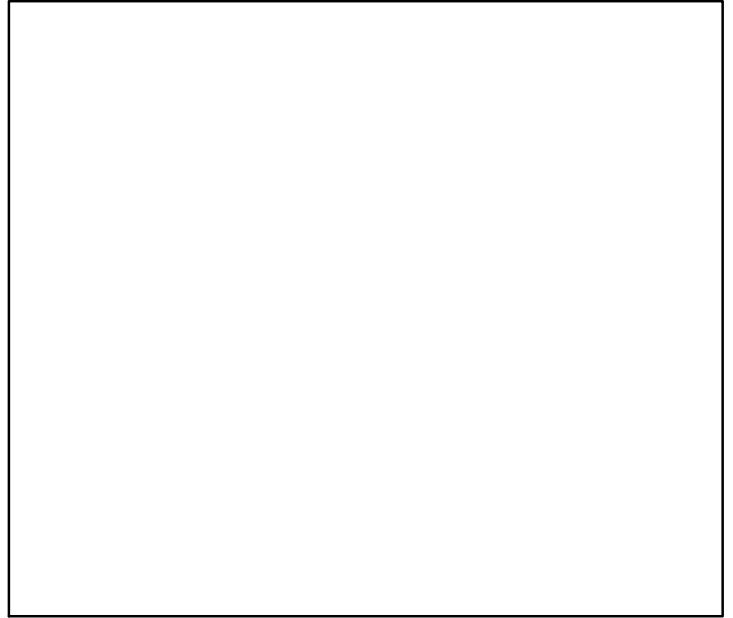
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

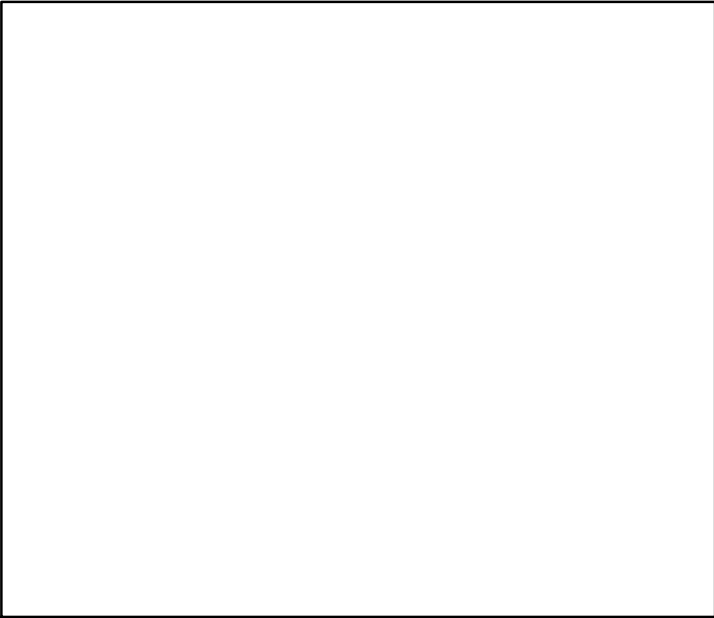
Kobe MSY*



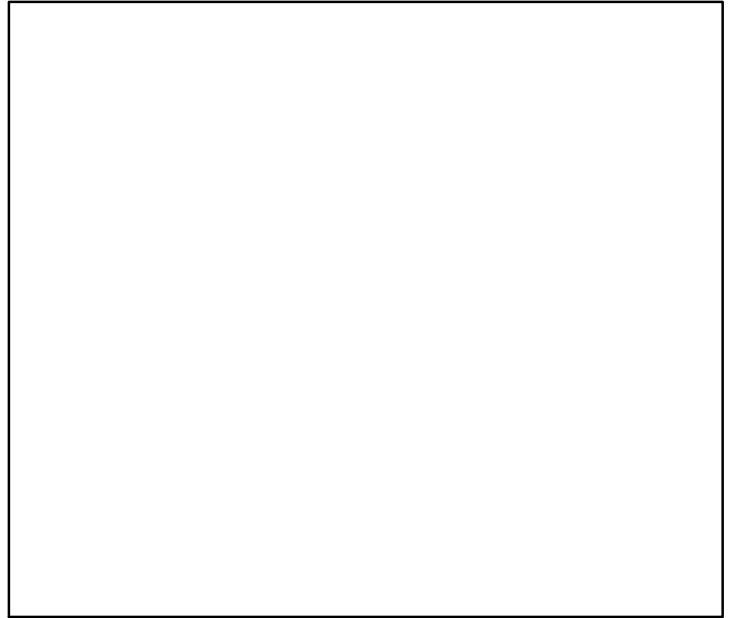
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Threadfin West Africa Subgroup 1 [THREADWASG1]

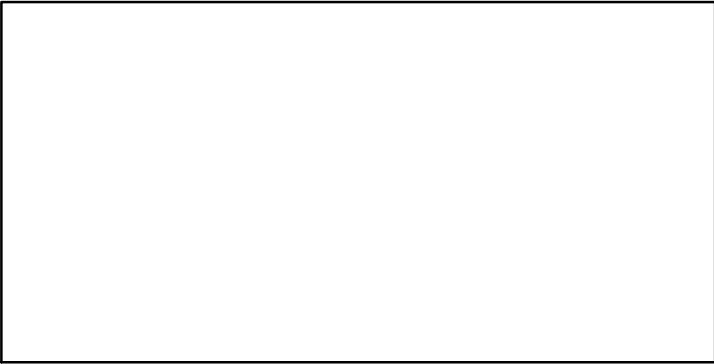
TB*



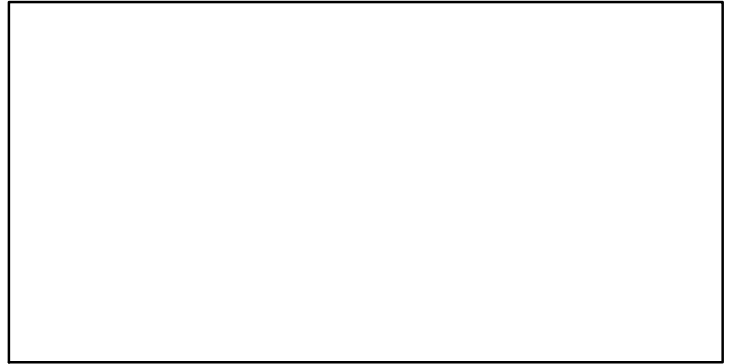
SSB*



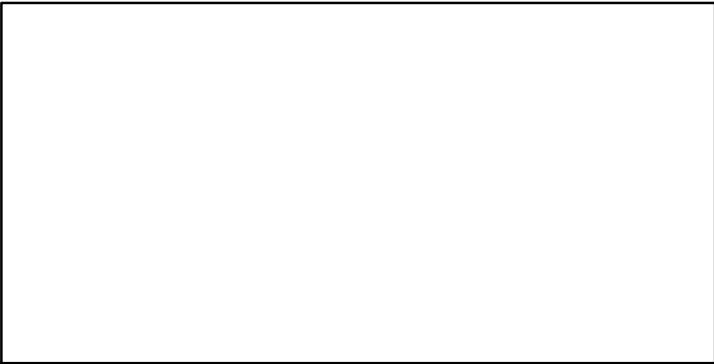
TN *



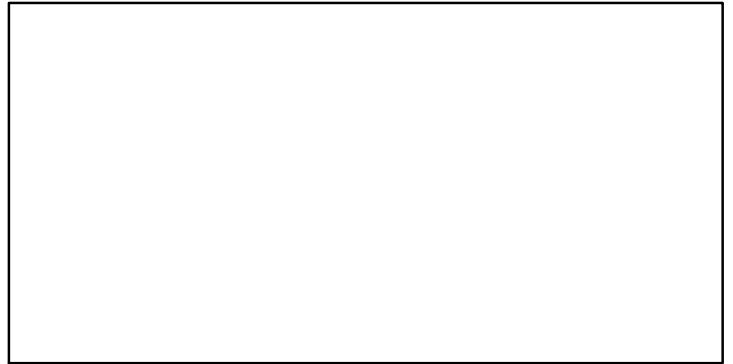
F*



ER*



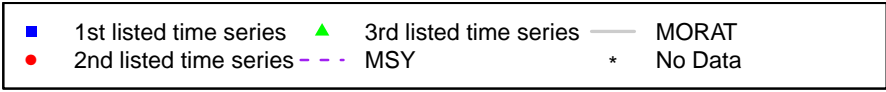
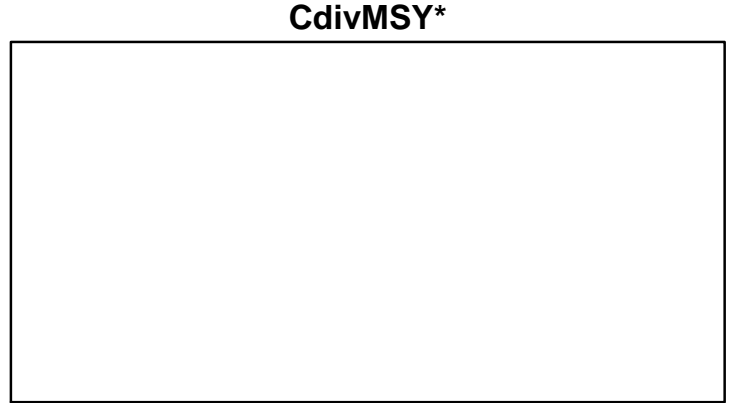
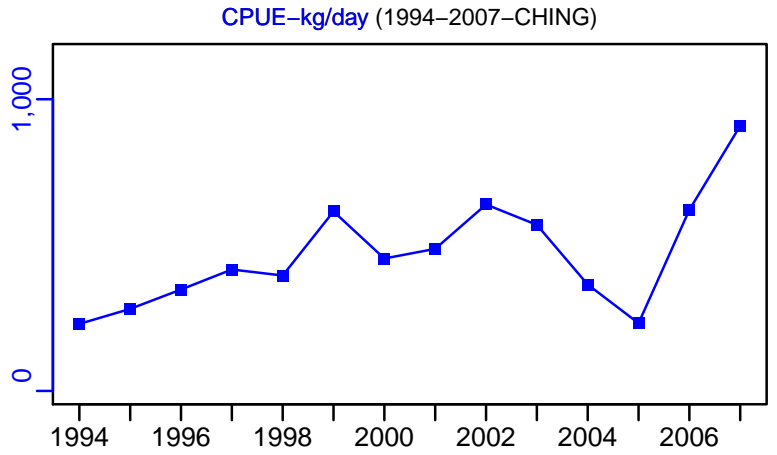
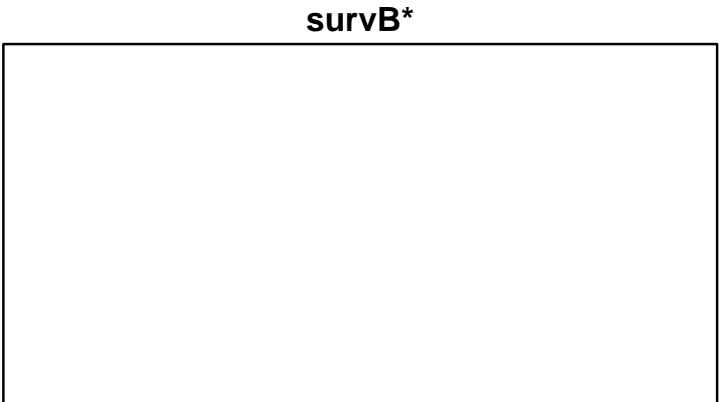
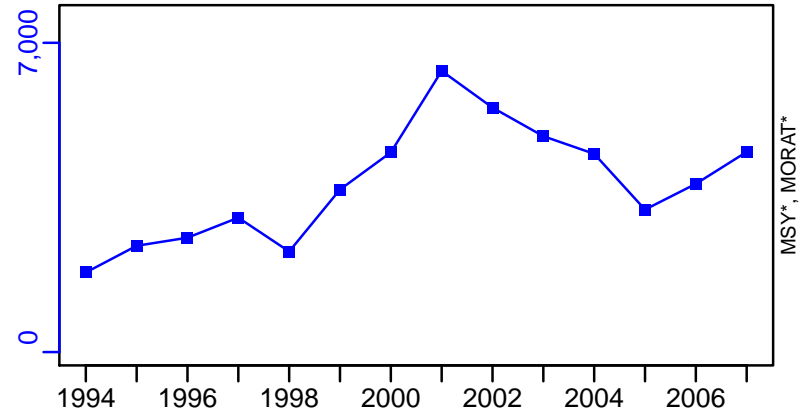
Recruits*



Threadfin West Africa Subgroup 1 [THREADWASG1]

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

TAC*, Cpair*, Cadv*



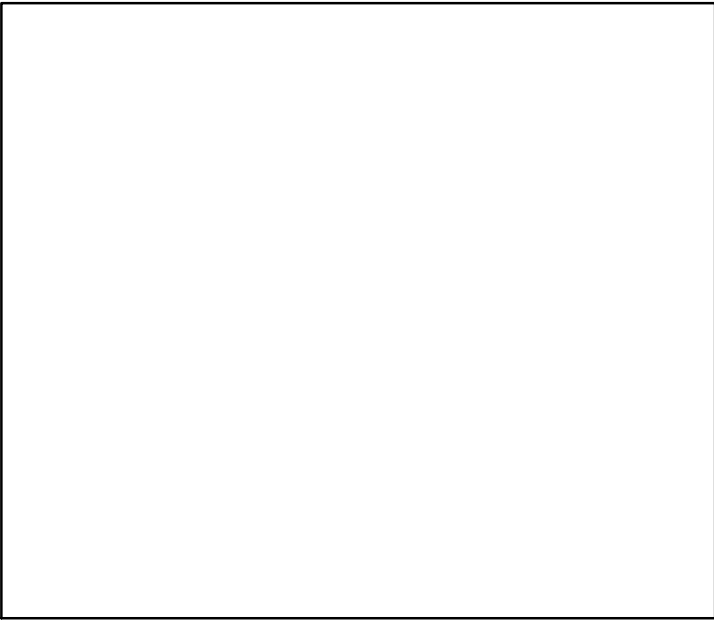
Threadfin West Africa Subgroup 2 [THREADWASG2]

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	-	-	-		

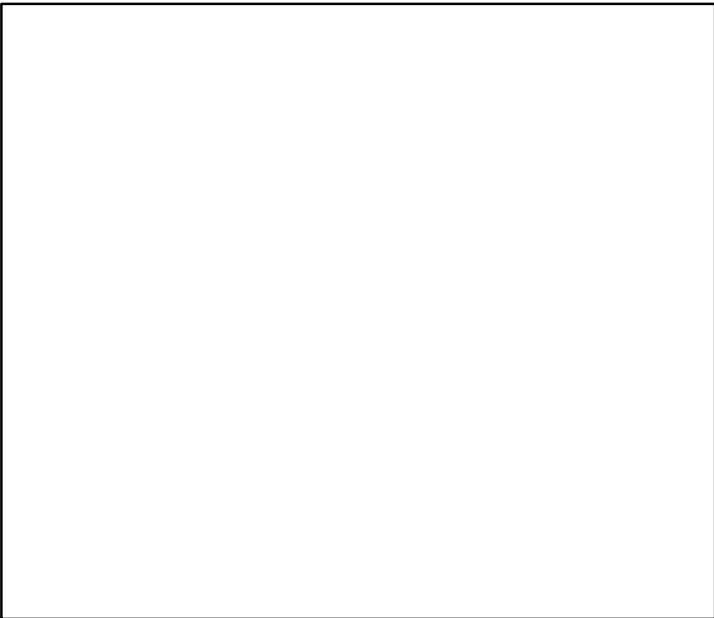
Kobe MSY*



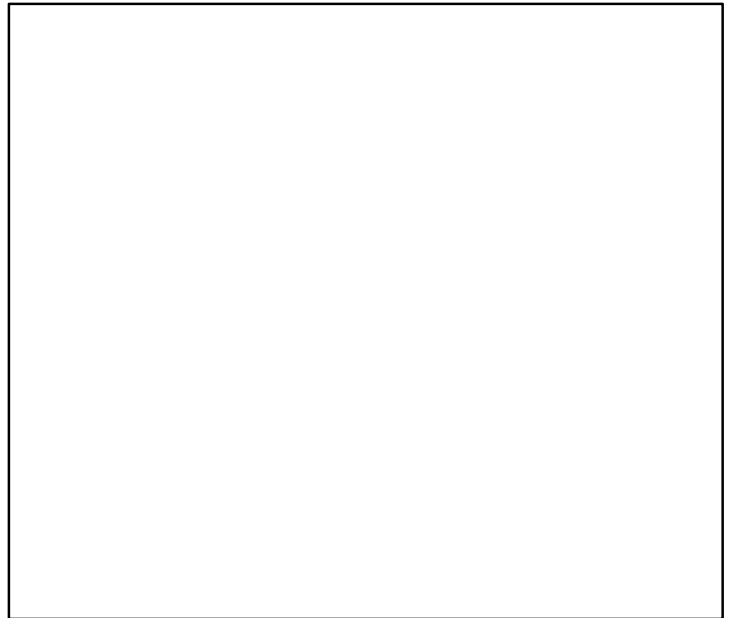
Kobe MGT*



Spawner Recruit*



Production*

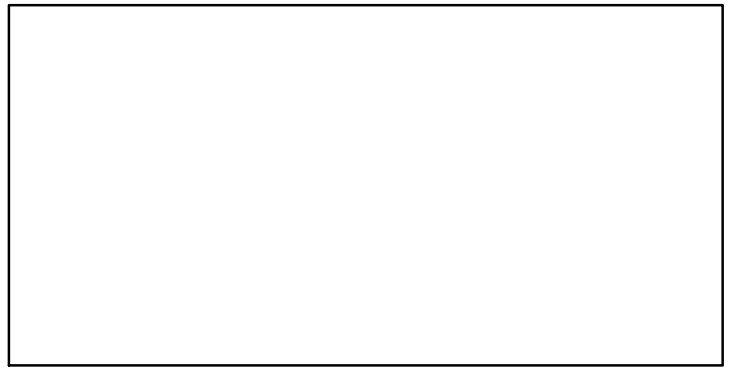
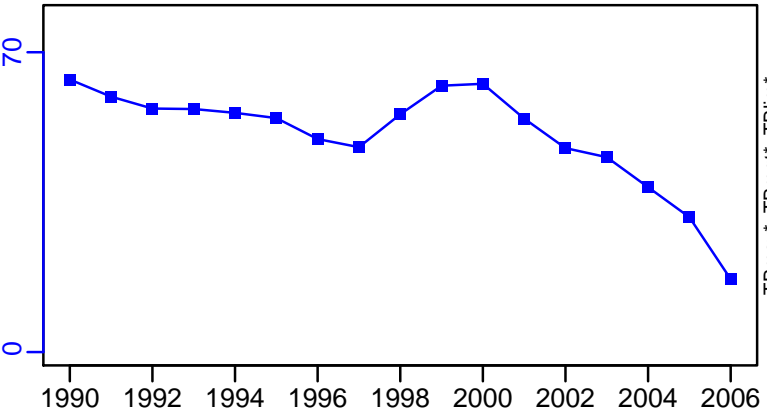


◆ Start Year ◆ End Year * No Data

Threadfin West Africa Subgroup 2 [THREADWASG2]

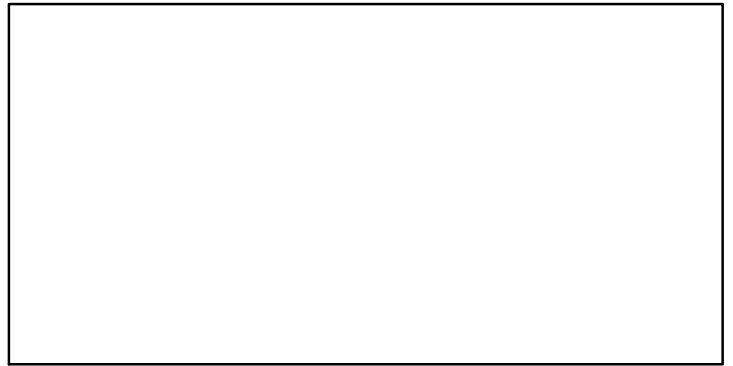
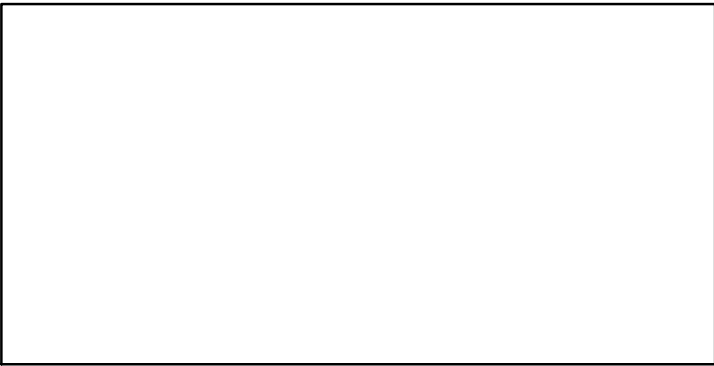
TB-index (1990–2006–CHING)

SSB*



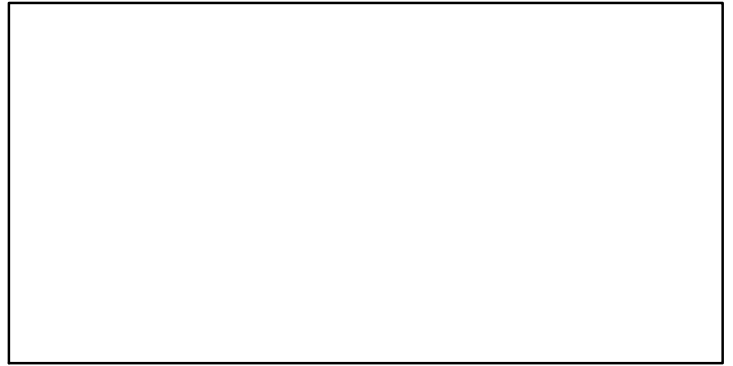
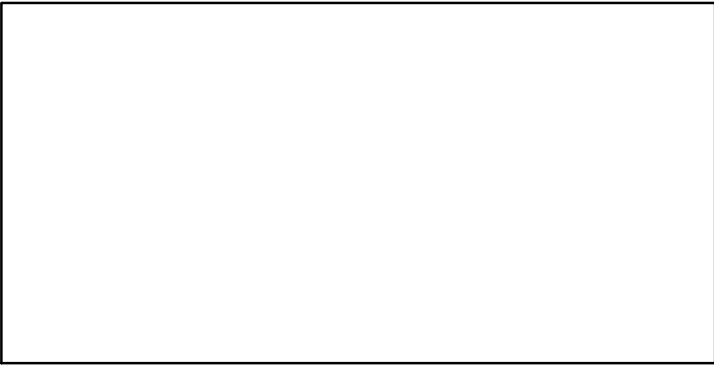
TN *

F*



ER*

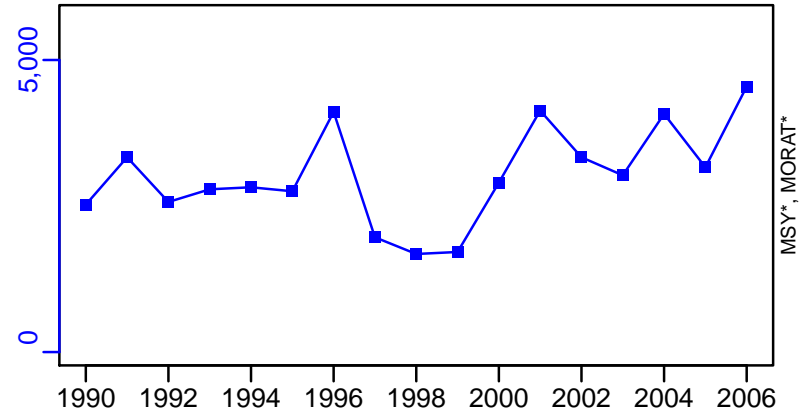
Recruits*



Threadfin West Africa Subgroup 2 [THREADWASG2]

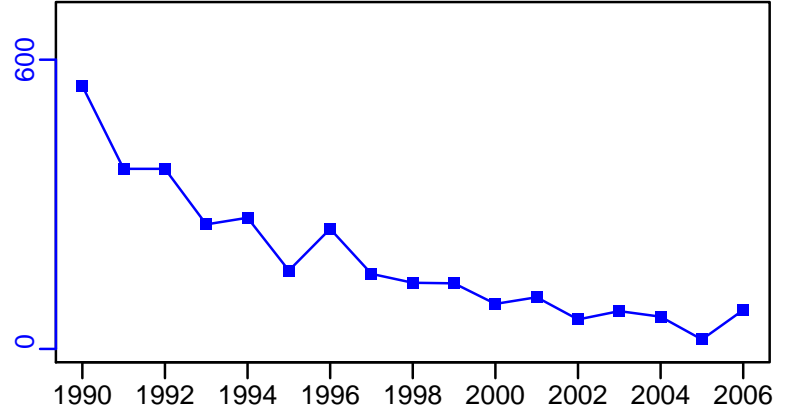
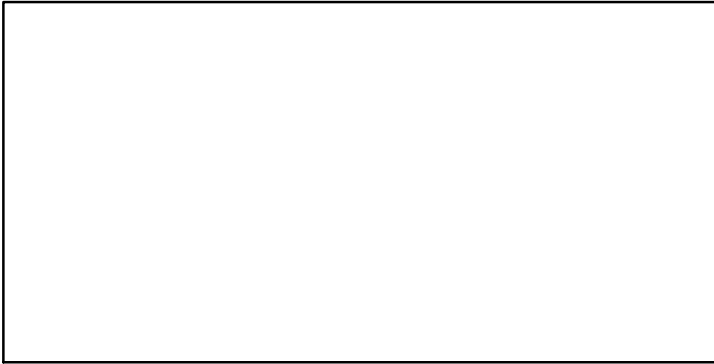
TC-MT, TL*, RecC* (1990-2006-CHING)

TAC*, Cpair*, Cadv*



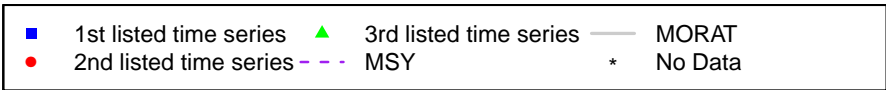
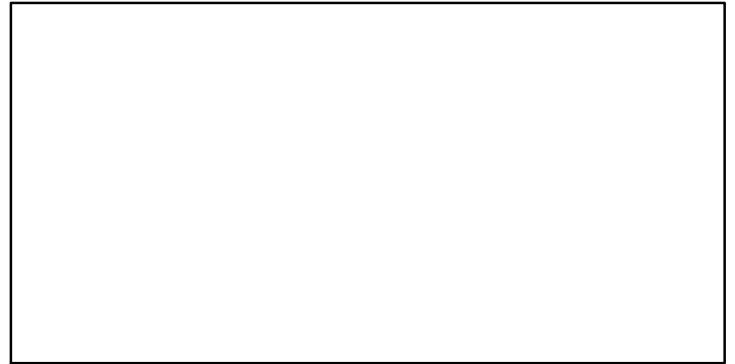
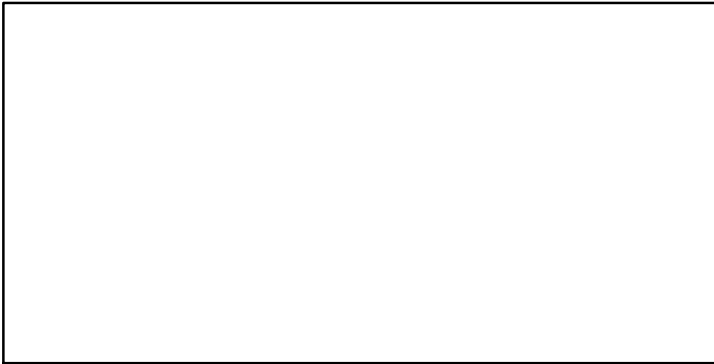
survB*

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



EFFORT*

CdivMSY*



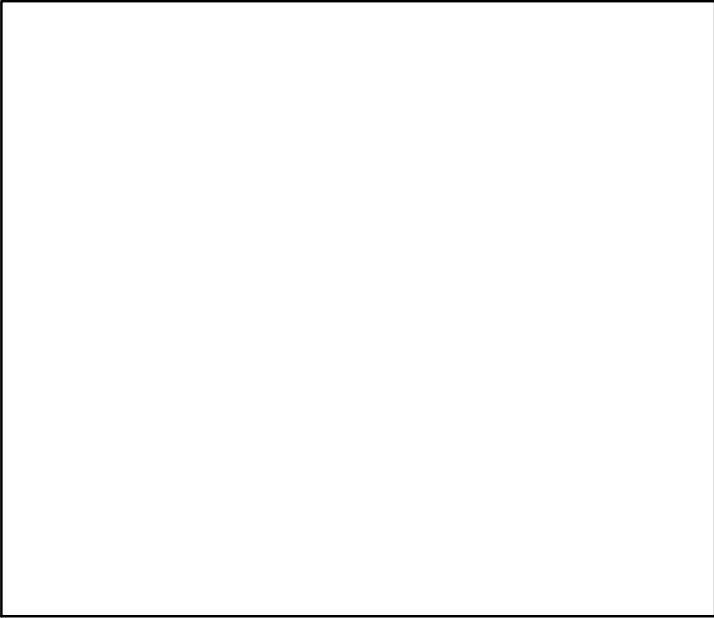
Threadfin West Africa Subgroup 3 [THREADWASG3]

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

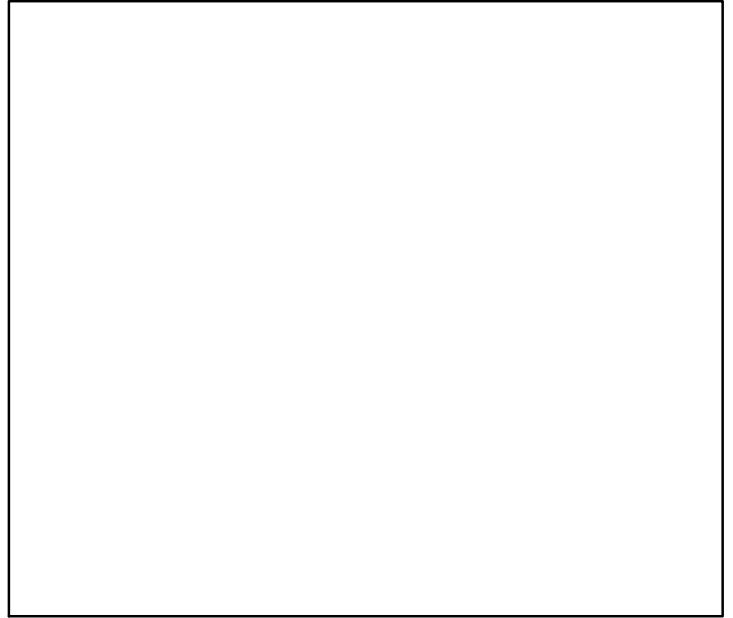
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

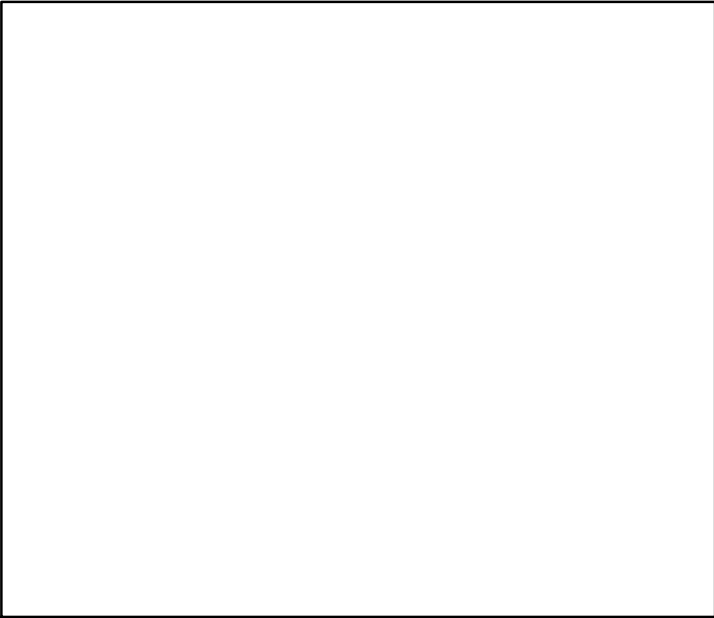
Kobe MSY*



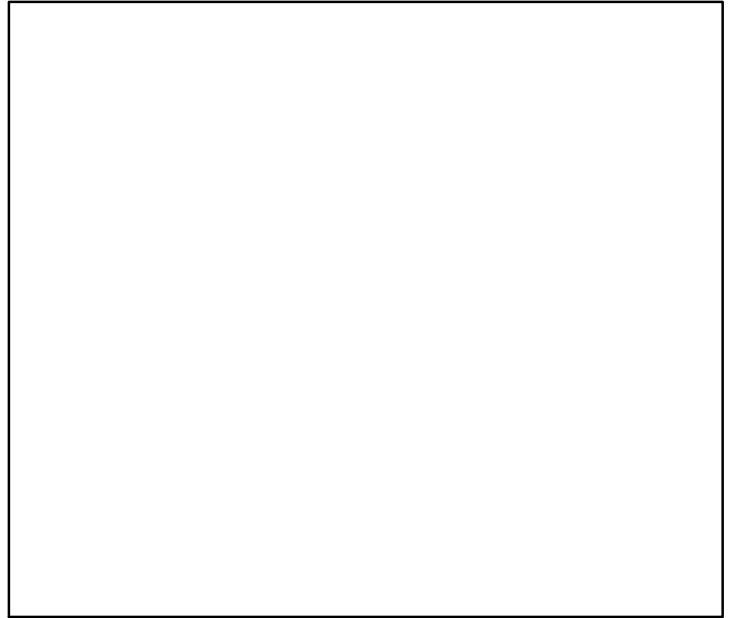
Kobe MGT*



Spawner Recruit*



Production*

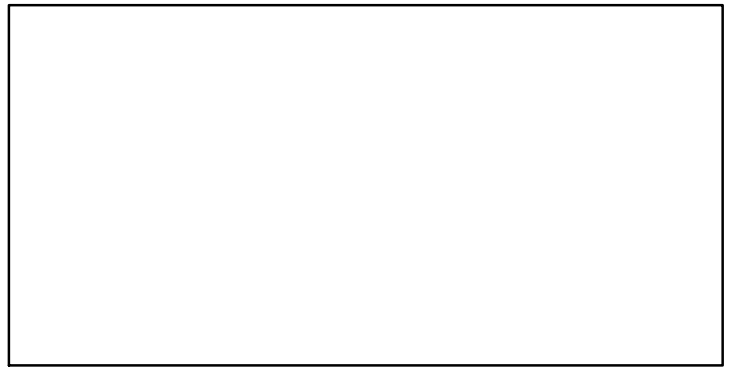
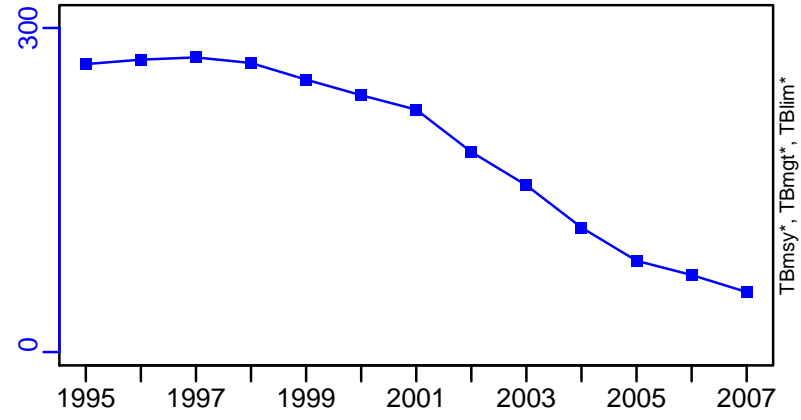


◆ Start Year ◆ End Year * No Data

Threadfin West Africa Subgroup 3 [THREADWASG3]

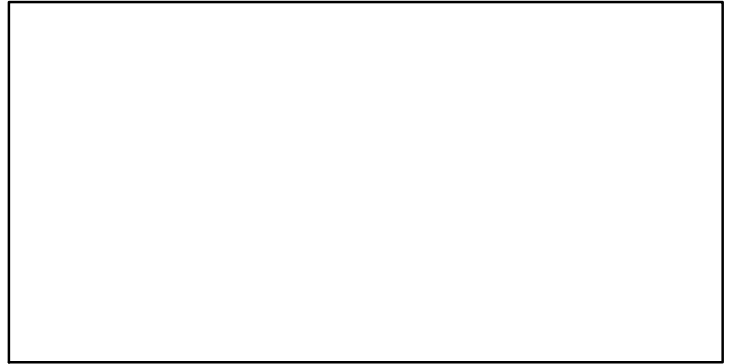
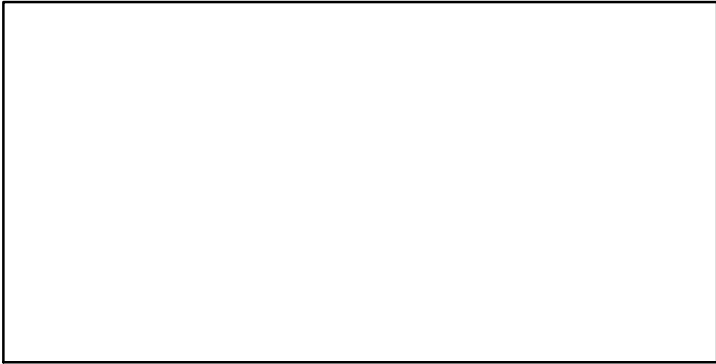
TB-index (1990-2007-CHING)

SSB*



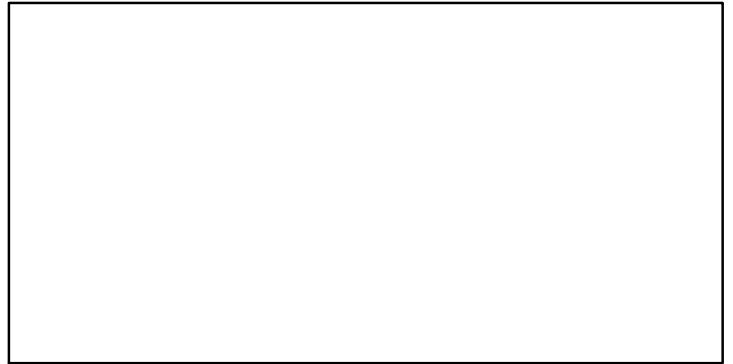
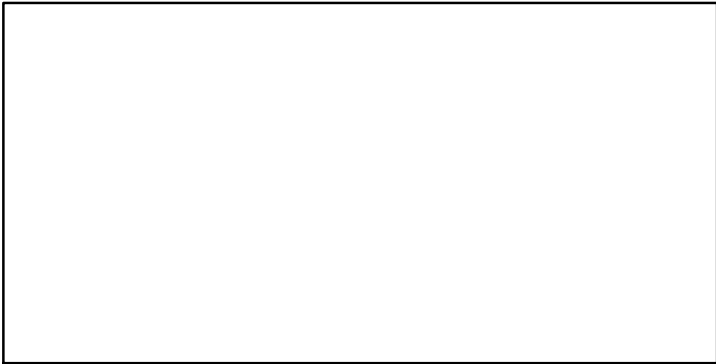
TN *

F*



ER*

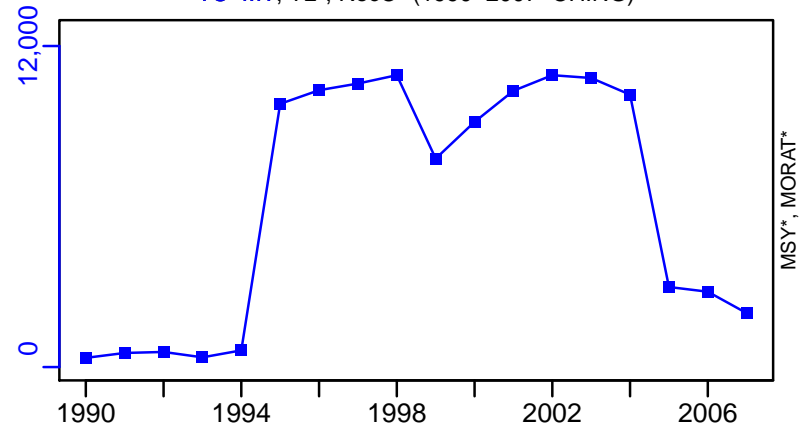
Recruits*



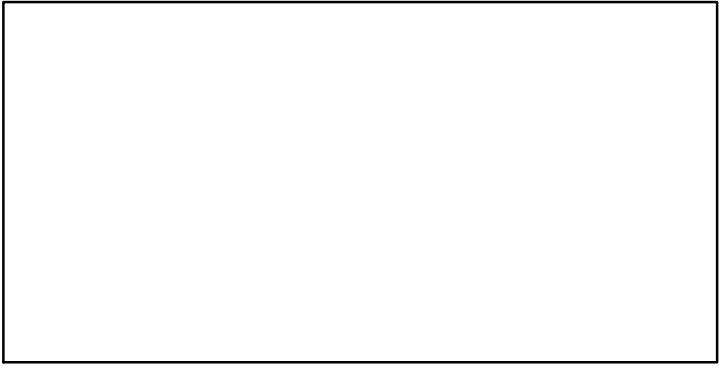
Threadfin West Africa Subgroup 3 [THREADWASG3]

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

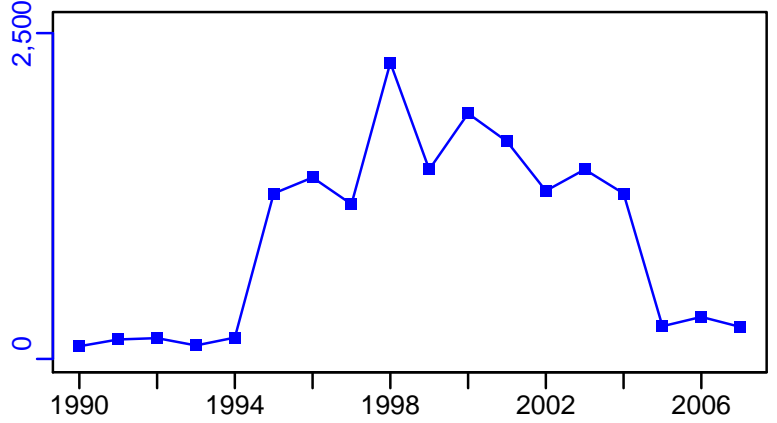
TAC*, Cpair*, Cadv*



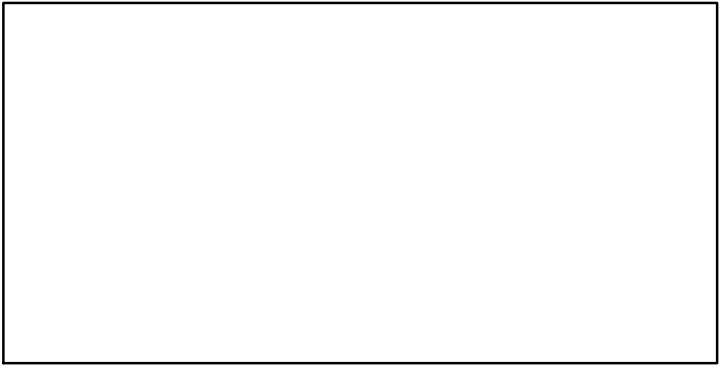
survB*



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



EFFORT*



CdivMSY*

