

cephalopods Stocks

v4.66 (Nov-03-2024)

Not present Present Preferred

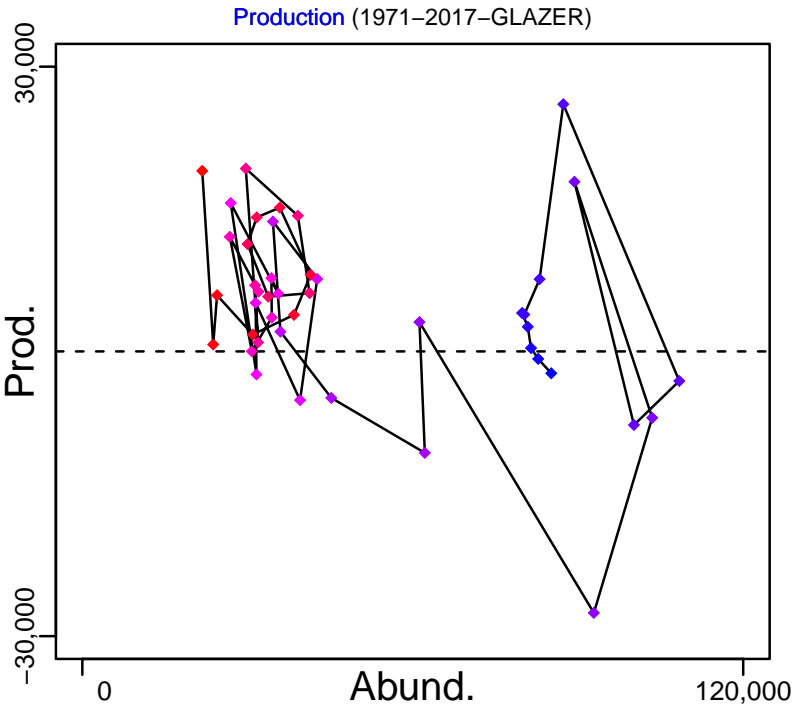
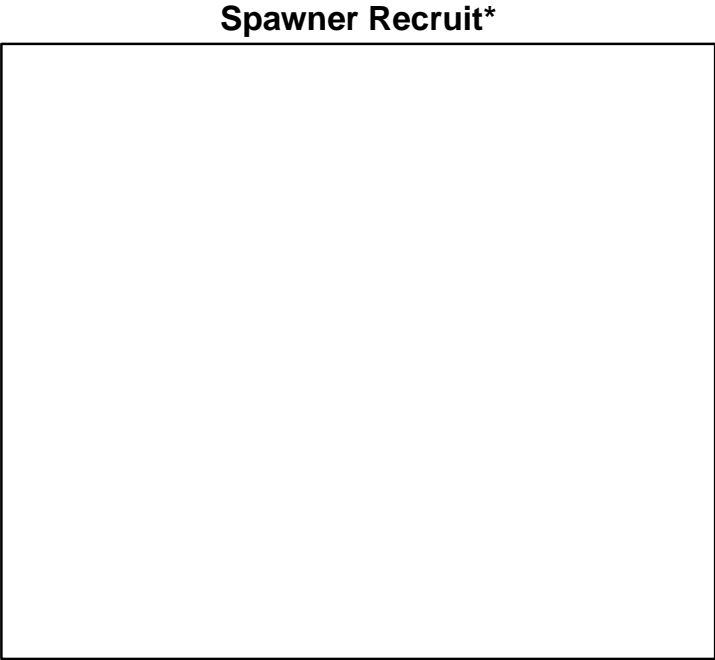
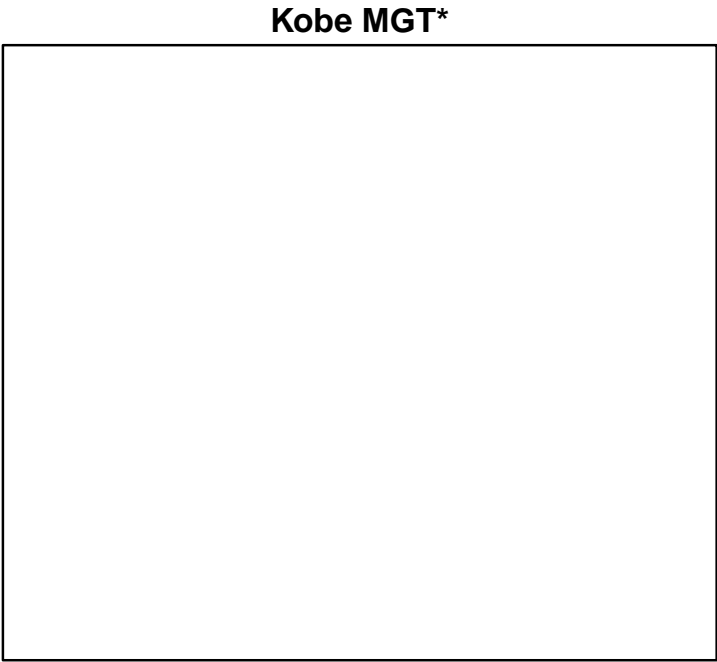
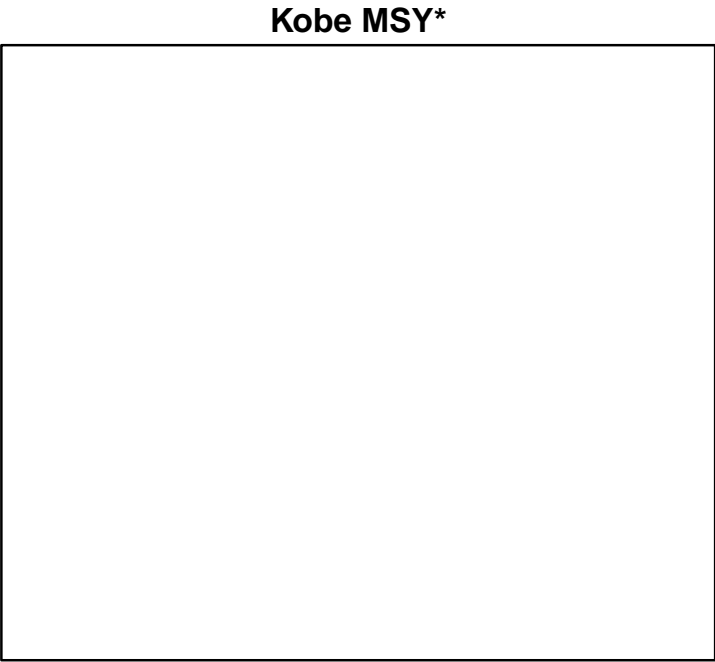
Stock	B/Bmsy	Time Series Types			
		U/Umsy	B/Bmgt	U/Umgt	
1. CHSQUIDSA [Cape Hope squid South Africa]	TB SSB	ER F	TB SSB	ER F	
2. CUTTLECWAGHA [Cuttlefish Central West Africa Ghana]	TB SSB	ER F	TB SSB	ER F	
3. CUTTLENWACBL [Cuttlefish North West Africa Cape Blanc]	TB SSB	ER F	TB SSB	ER F	
4. CUTTLENWADAK [Cuttlefish North West Africa Dakhla]	TB SSB	ER F	TB SSB	ER F	
5. CUTTLENWASEN_GMB [Cuttlefish North West Africa Senegal_The Gambia]	TB SSB	ER F	TB SSB	ER F	
6. ESQUIDNWACBL [European squid North West Africa Cape Blanc]	TB SSB	ER F	TB SSB	ER F	
7. ESQUIDNWADAK [European squid North West Africa Dakhla]	TB SSB	ER F	TB SSB	ER F	
8. ESQUIDNWASEN_GMB [European squid North West Africa Senegal_The Gambia]	TB SSB	ER F	TB SSB	ER F	
9. GPOCTOBSAI [Giant Pacific octopus Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F	
10. GPOCTOGA [Giant Pacific octopus Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F	
11. ILLEXNWATLC [Northern shortfin squid Northwestern Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
12. JCSQUIDJPNA [Japanese flying squid Japan Autumn recruitment]	TB SSB	ER F	TB SSB	ER F	
13. JCSQUIDJPNWR [Japanese flying squid Japan Winter recruitment]	TB SSB	ER F	TB SSB	ER F	
14. LISQUIDATLC [Longfin inshore squid Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
15. OCTOCWAGNB [Octopus Central West Africa Guinea Bissau]	TB SSB	ER F	TB SSB	ER F	
16. OCTONWACBL [Octopus North West Africa Cape Blanc]	TB SSB	ER F	TB SSB	ER F	
17. OCTONWADAK [Octopus North West Africa Dakhla]	TB SSB	ER F	TB SSB	ER F	
18. OCTONWASEN_GMB [Octopus North West Africa Senegal_The Gambia]	TB SSB	ER F	TB SSB	ER F	
19. SPSQUIDPAC [Spear squid Pacific Ocean]	TB SSB	ER F	TB SSB	ER F	
20. SPSQUIDTSSTWC [Spear squid Tsushima warm current]	TB SSB	ER F	TB SSB	ER F	
21. STSQUIDSOJECS [Swordtip squid Sea of Japan and East China Sea]	TB SSB	ER F	TB SSB	ER F	

Cape Hope squid South Africa [CHSQUIDSA]

Metadata	
Scientific Name	Loligo reynaudii
Current Assess ID	FBDAFF-CHSQUIDSA-1971-2017-GLAZER
Area	South Africa
Management Authority	South African national management, Fisheries Branch of Department of Agriculture, Forestry and Fisheries
Assessor	Fisheries Branch of Department of Agriculture, Forestry and Fisheries
Asmts in RAM	2013, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-pr-MT	2017	34,059
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2017	85,146
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	31,424	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-MT	2017	19,244	Both	-
F	-	-	-	-	-
ER	ER-ratio	2017	0.202	Both	-
TC	TC-MT	2017	6812		
TL	TL-MT	2017	6812		
TB/TBmsy	TB-MT/TBmsy-pr-MT	2017	0.923		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

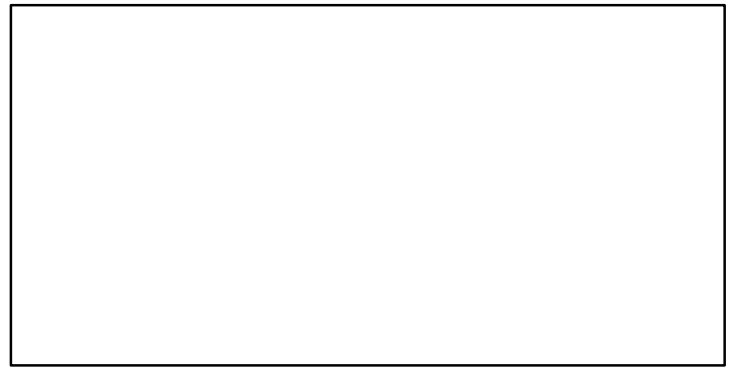
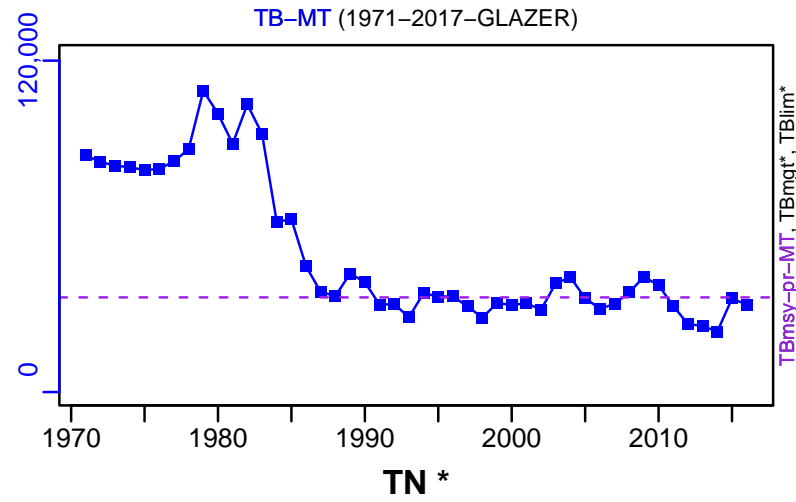


◆ Start Year ◆ End Year * No Data

Cape Hope squid South Africa [CHSQUIDSA]

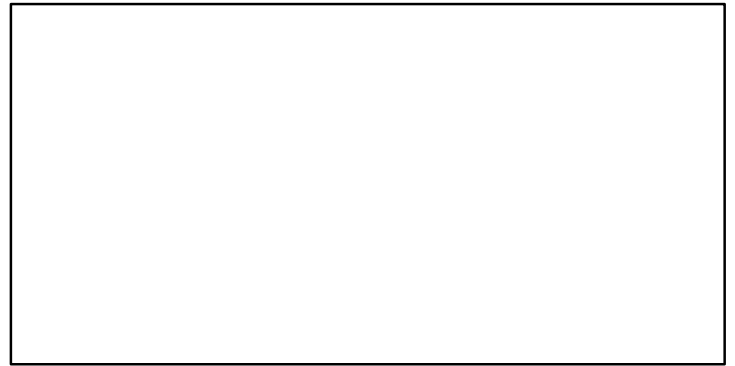
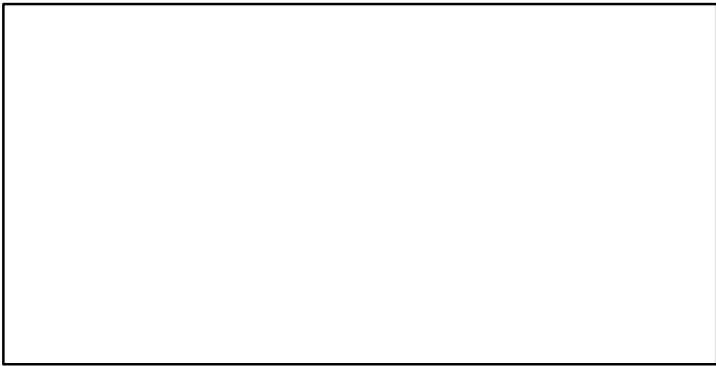
TB-MT (1971-2017-GLAZER)

SSB*



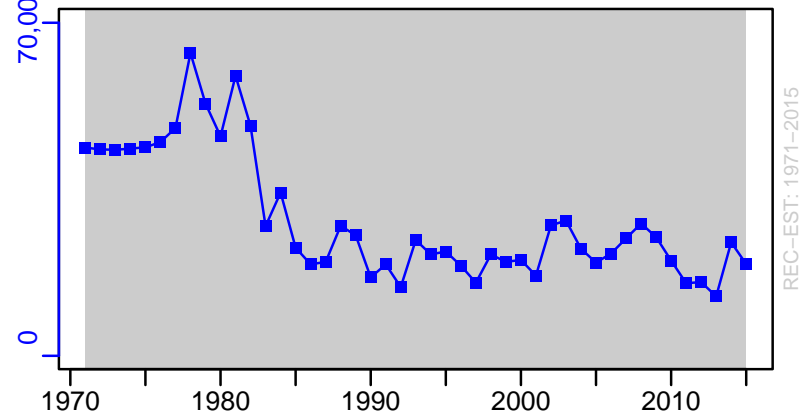
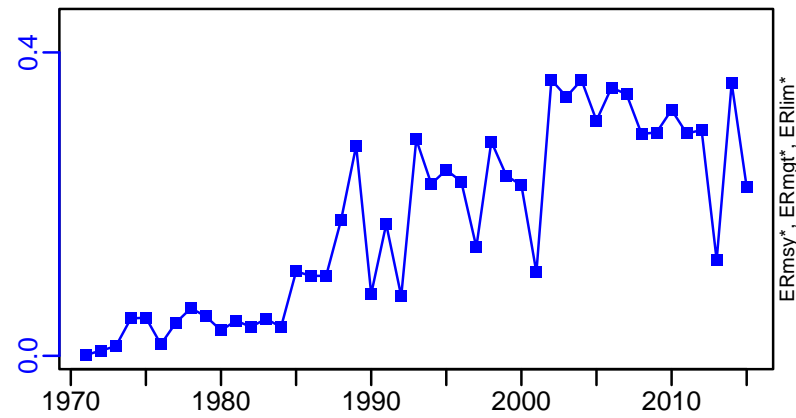
TN *

F*



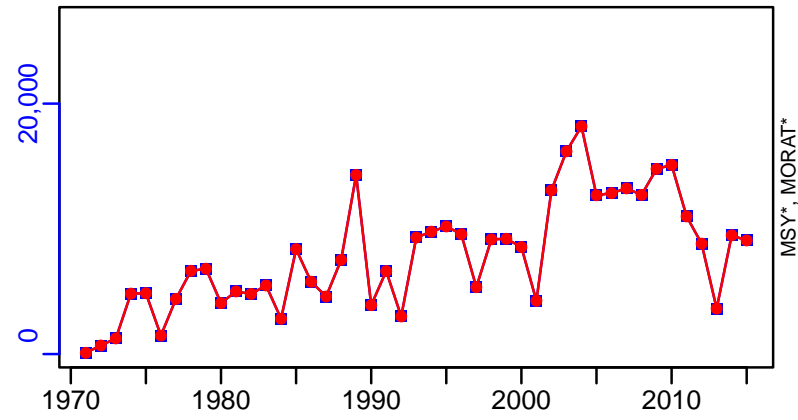
ER-ratio (1971-2017-GLAZER)

R-MT (1971-2017-GLAZER)



Cape Hope squid South Africa [CHSQUIDSA]

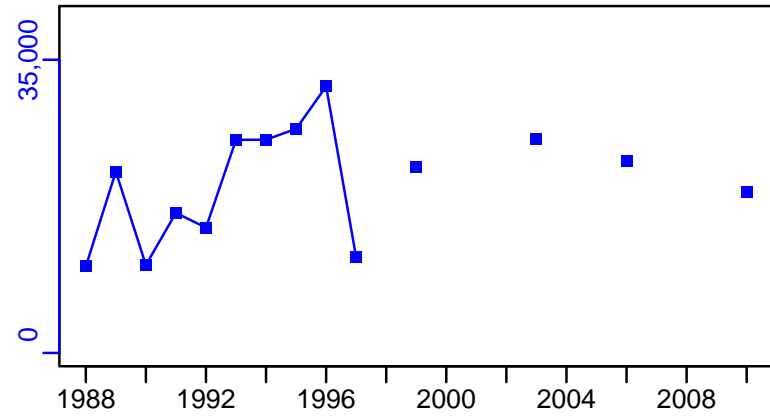
TC-MT, TL-MT, RecC* (1971-2017-GLAZER)



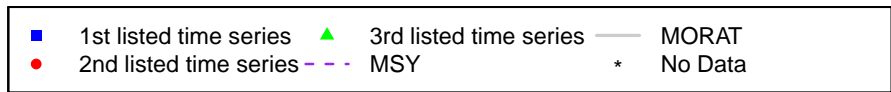
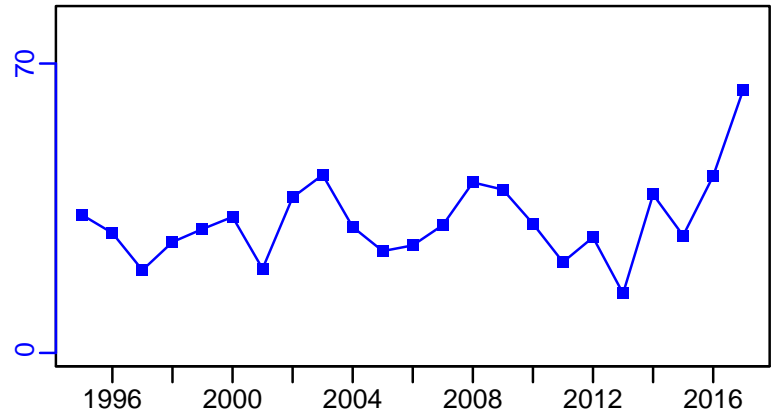
TAC*, Cpair*, Cadv*



survB_index-1-index (1971-2017-GLAZER)



CPUE-1-index (1971-2017-GLAZER)



Cuttlefish Central West Africa Ghana [CUTTLECWAGHA]

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

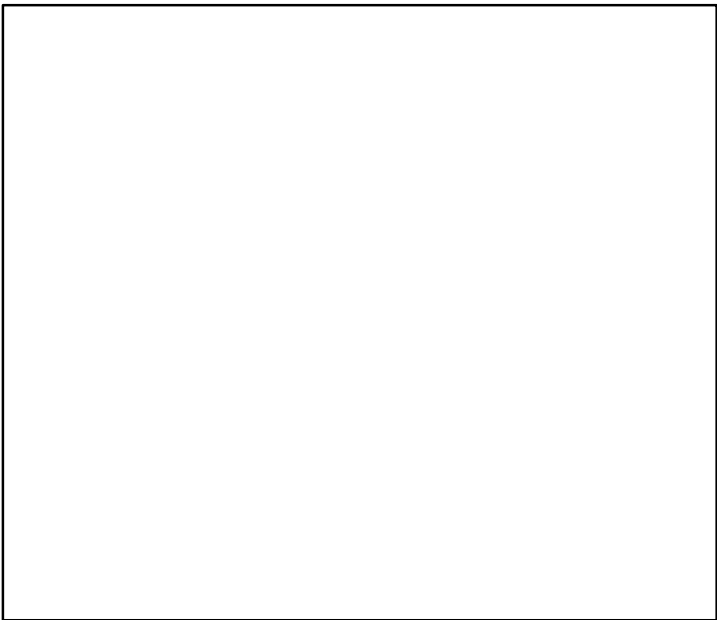
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

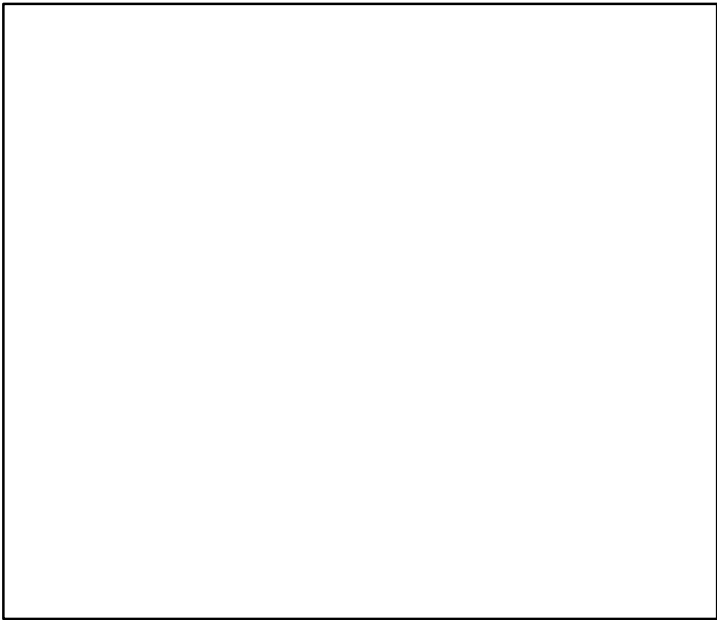
Kobe MSY*



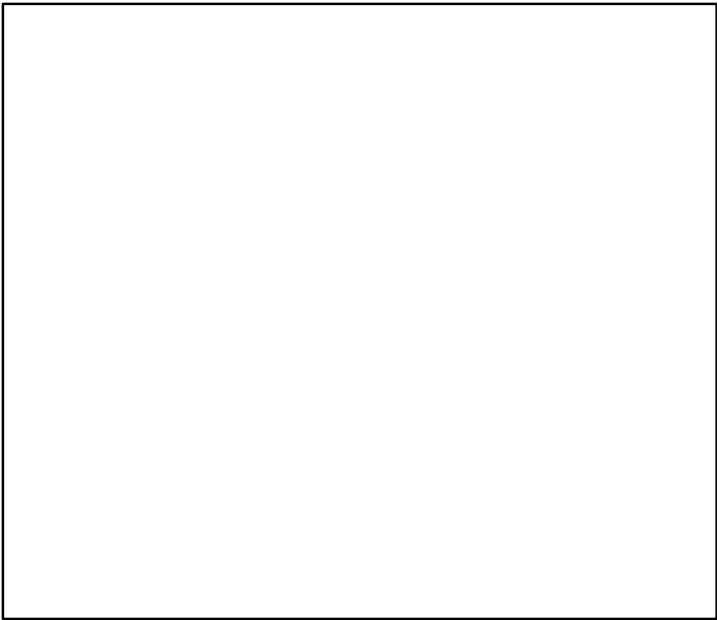
Kobe MGT*



Spawner Recruit*



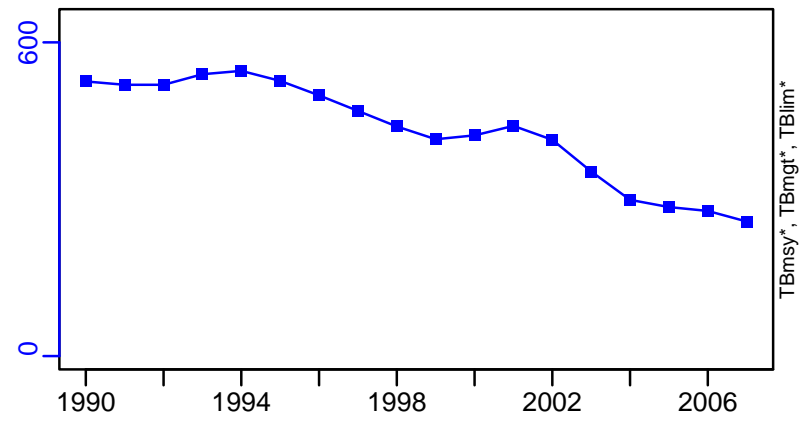
Production*



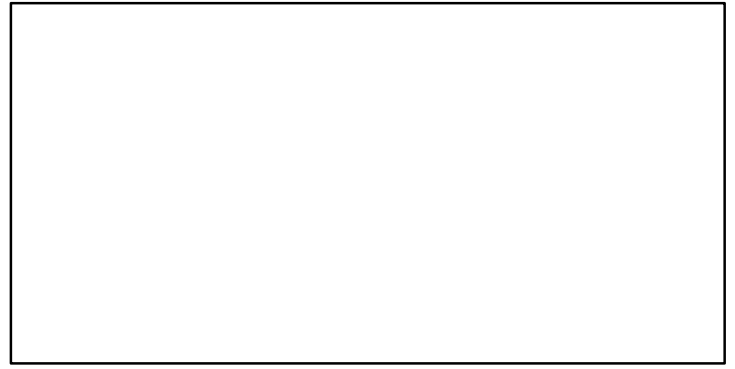
◆ Start Year ◆ End Year * No Data

Cuttlefish Central West Africa Ghana [CUTTLECWAGHA]

TB-index (1990–2007–CHING)



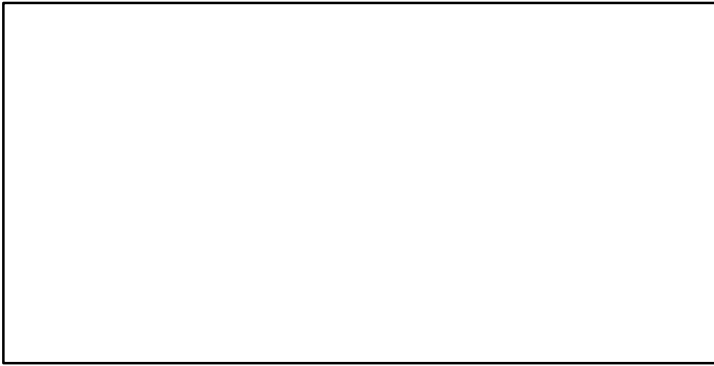
SSB*



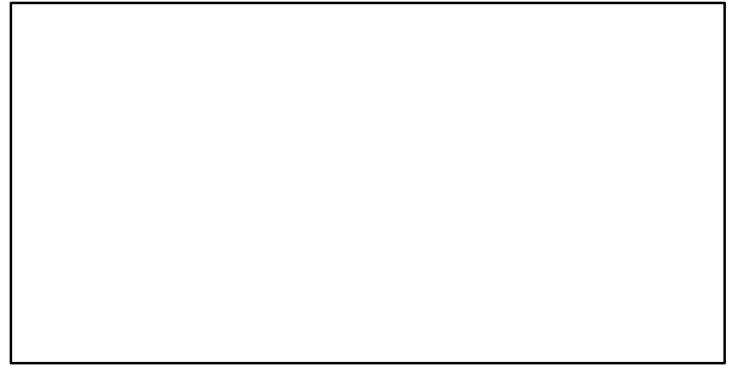
F*



ER*



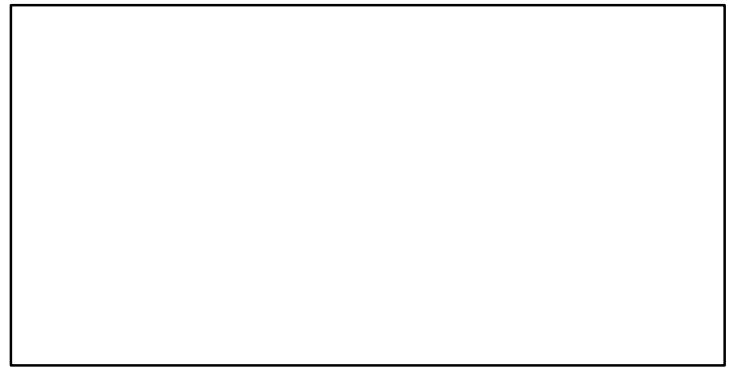
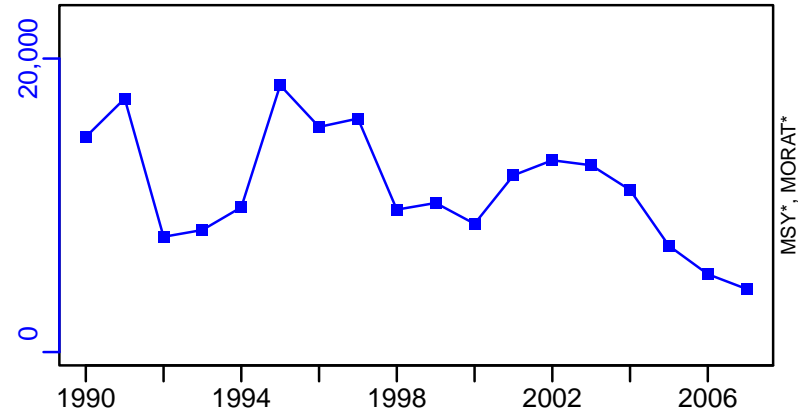
Recruits*



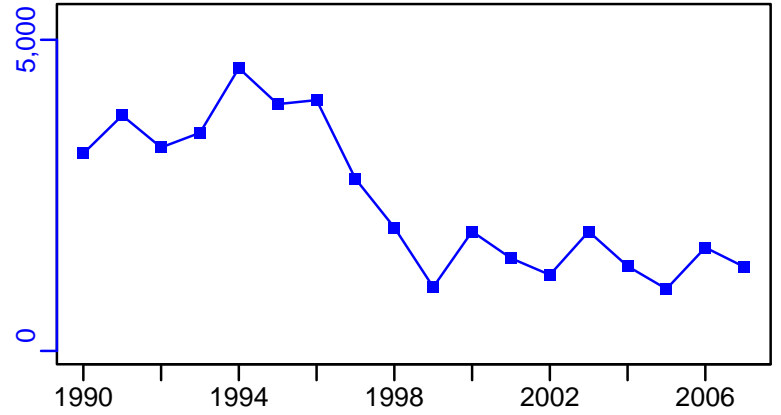
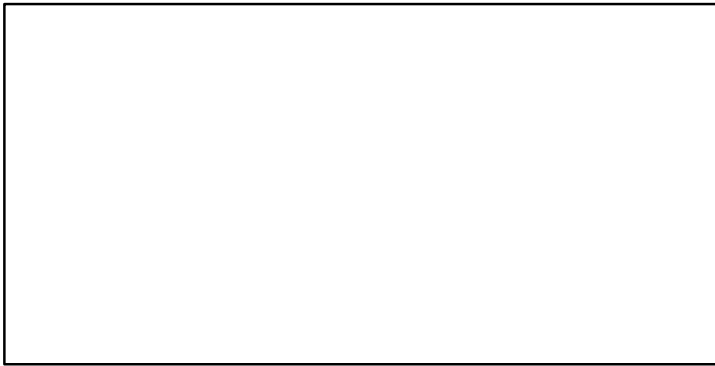
Cuttlefish Central West Africa Ghana [CUTTLECWAGHA]

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

TAC*, Cpair*, Cadv*

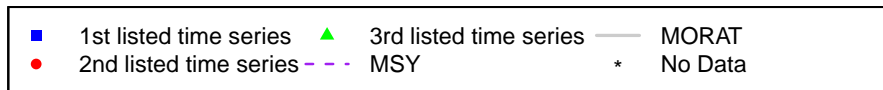
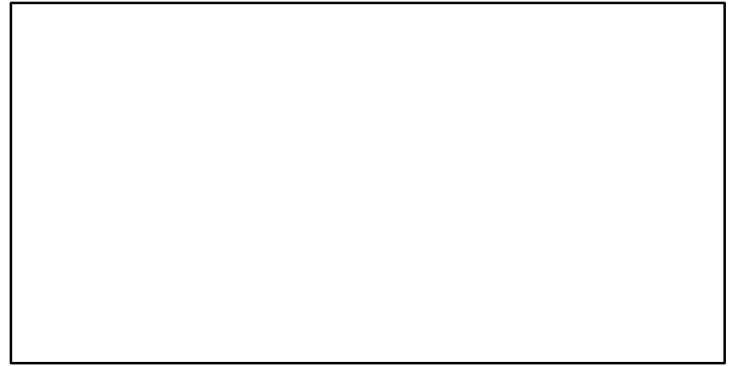
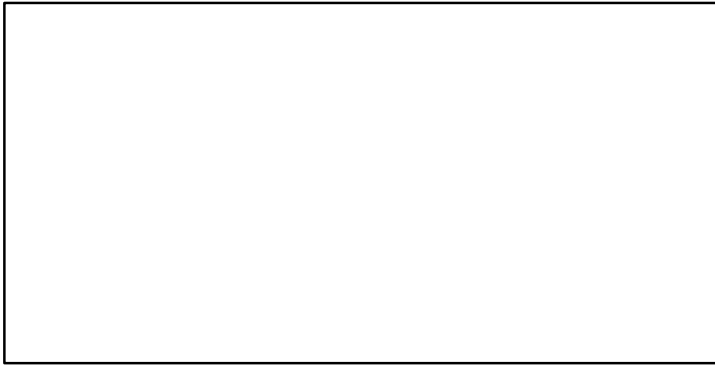


CPUE-kg/day (1990-2007-CHING)



EFFORT*

CdivMSY*



Cuttlefish North West Africa Cape Blanc [CUTTLENWACBL]

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	1790		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

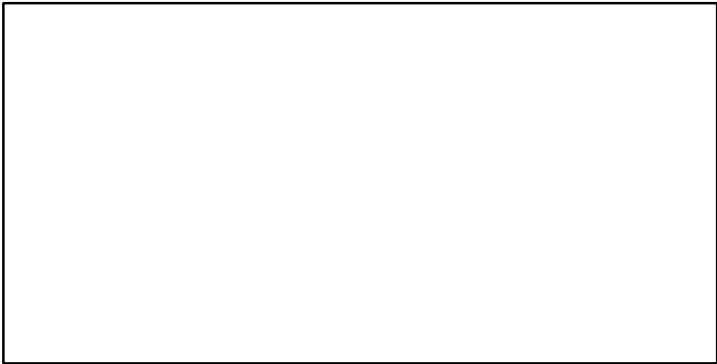


Production*

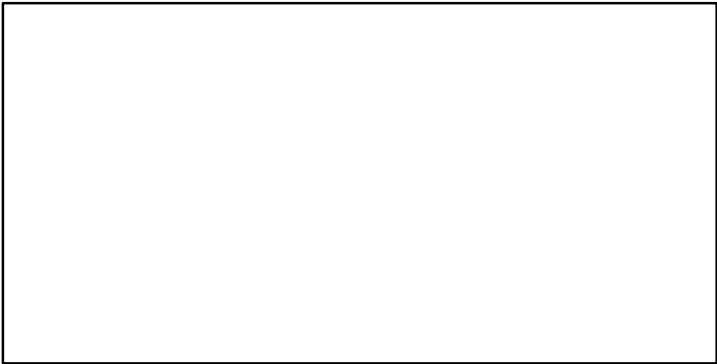


◆ Start Year ◆ End Year * No Data

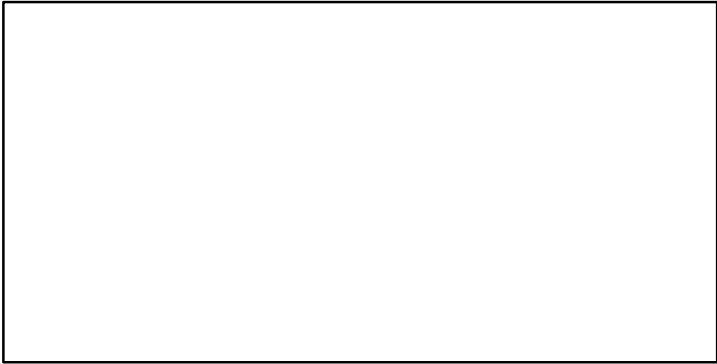
TB*



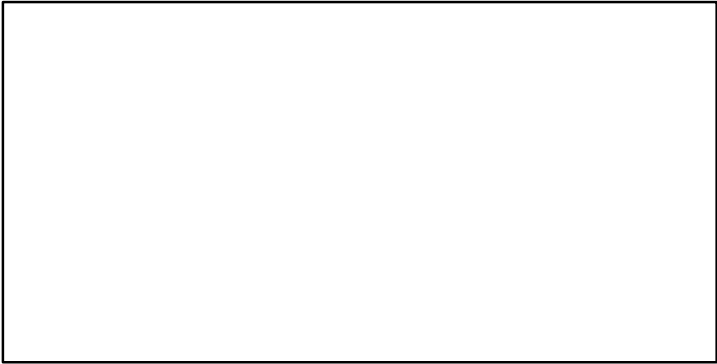
SSB*



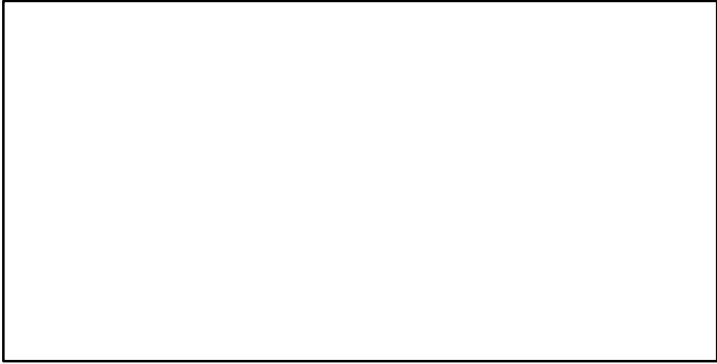
TN *



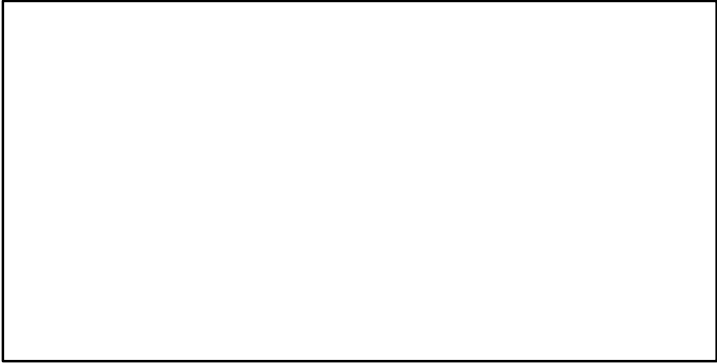
F*



ER*

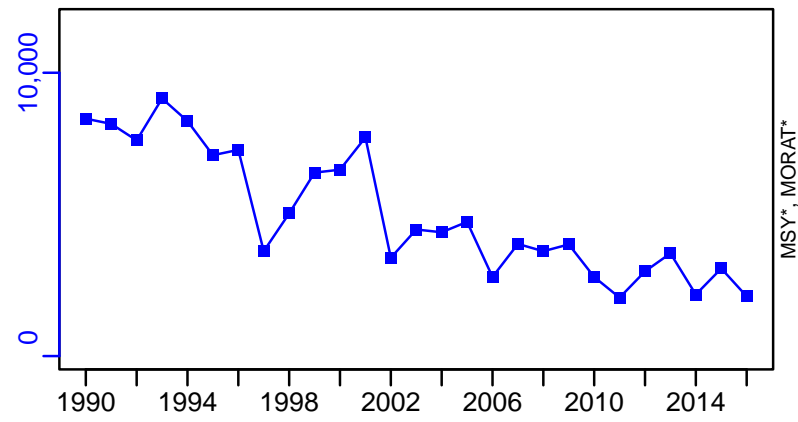


Recruits*



Cuttlefish North West Africa Cape Blanc [CUTTLENWACBL]

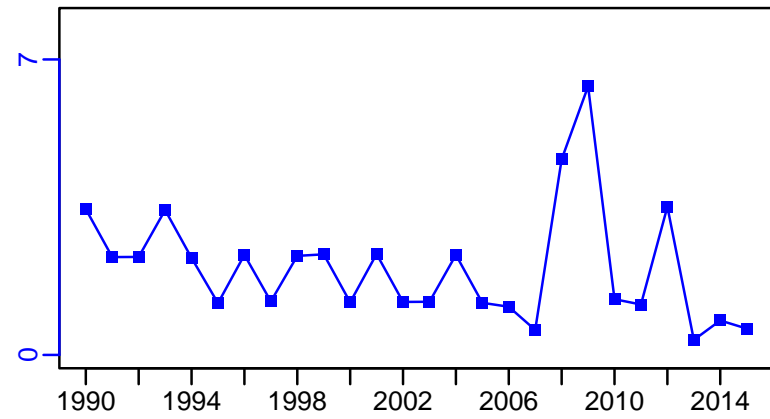
TC-MT, TL*, RecC* (1990–2016–ASHBROOK)



TAC*, Cpair*, Cadv*



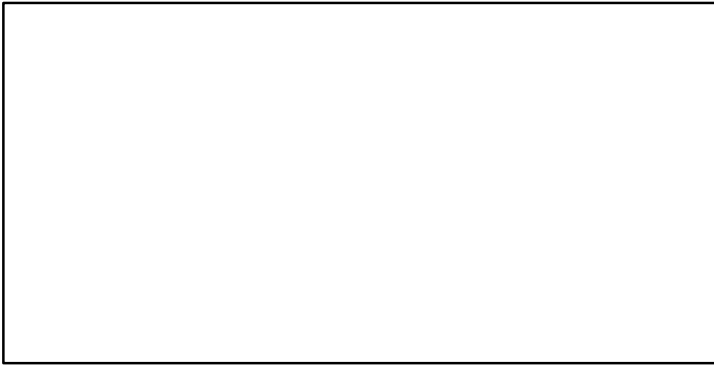
survB_index-index (1990–2016–ASHBROOK)



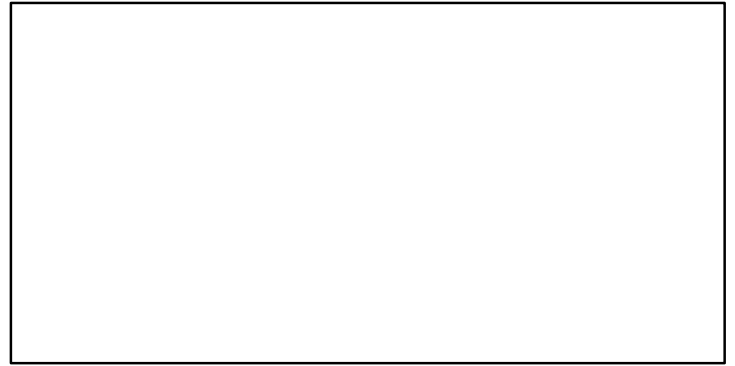
CPUE*



EFFORT*



CdivMSY*



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

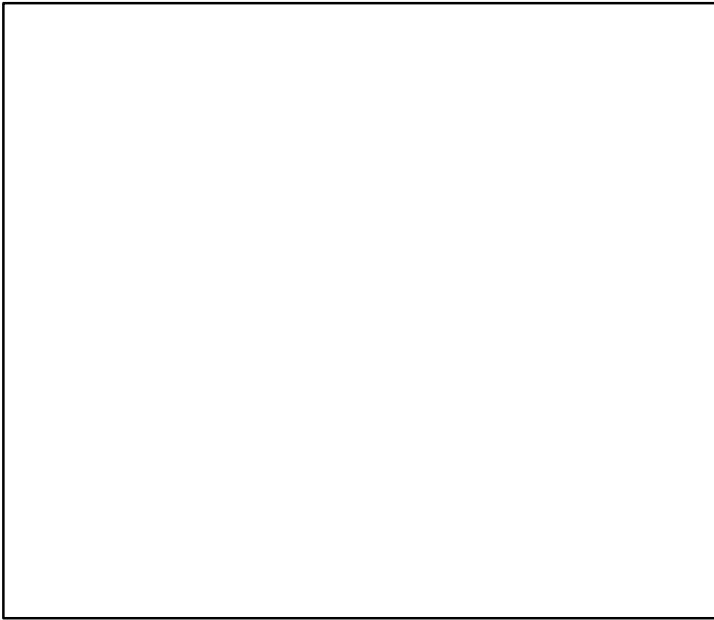
Cuttlefish North West Africa Dakhla [CUTTLENWADAK]

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

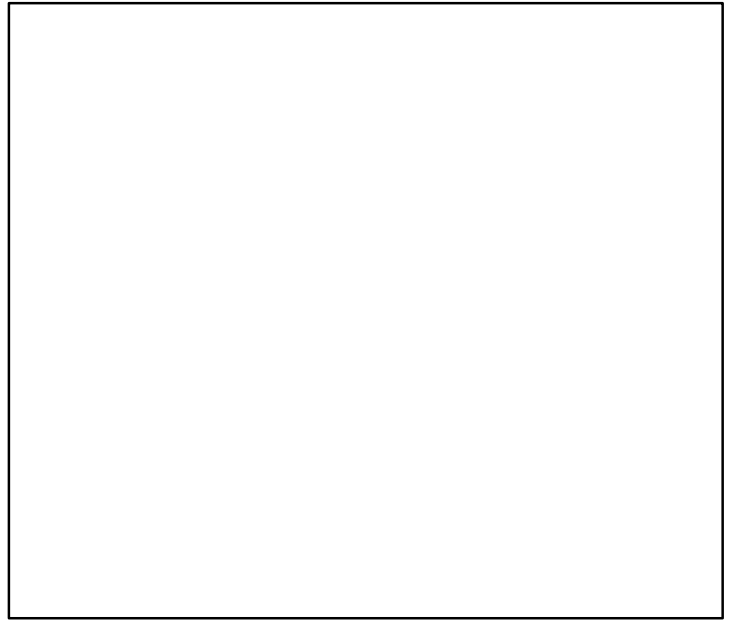
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	25,464		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

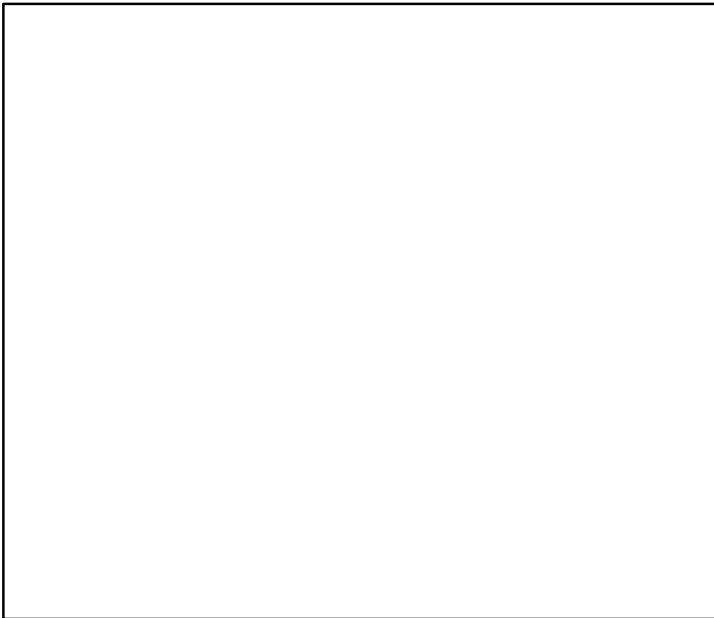
Kobe MSY*



Kobe MGT*



Spawner Recruit*



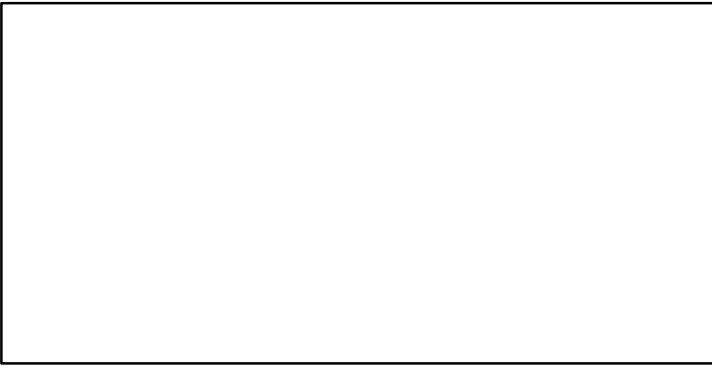
Production*



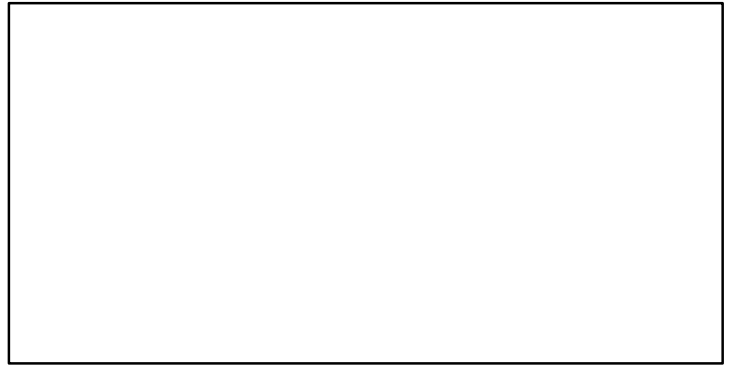
◆ Start Year ◆ End Year * No Data

Cuttlefish North West Africa Dakhla [CUTTLENWADAK]

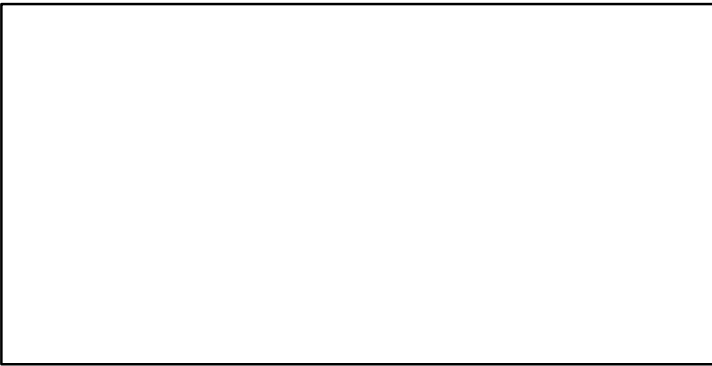
TB*



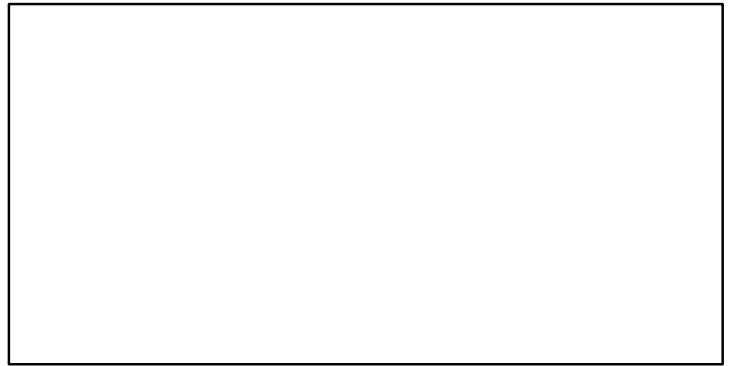
SSB*



TN *



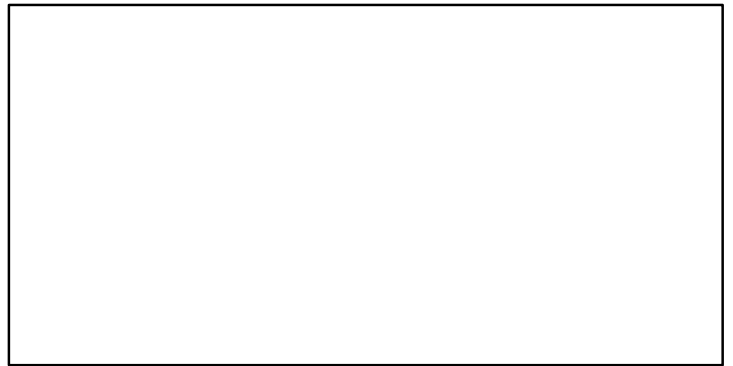
F*



ER*

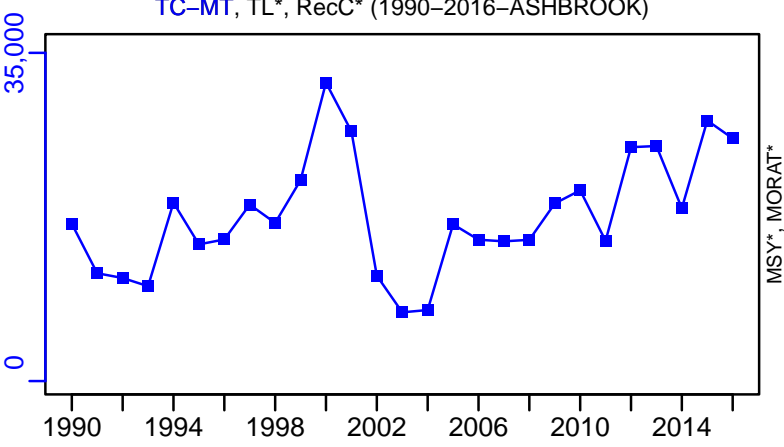


Recruits*



Cuttlefish North West Africa Dakhla [CUTTLENWADAK]

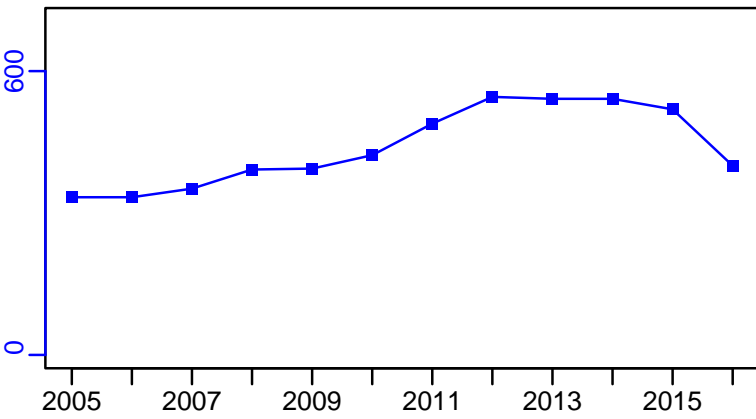
TC-MT, TL*, RecC* (1990–2016–ASHBROOK)



TAC*, Cpair*, Cadv*



survB_index–index (1990–2016–ASHBROOK)



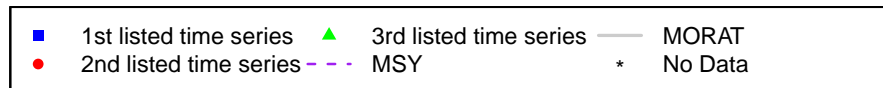
CPUE*



EFFORT*



CdivMSY*



Cuttlefish North West Africa Senegal_The Gambia [CUTTLENWASEN_GMB]

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2280		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

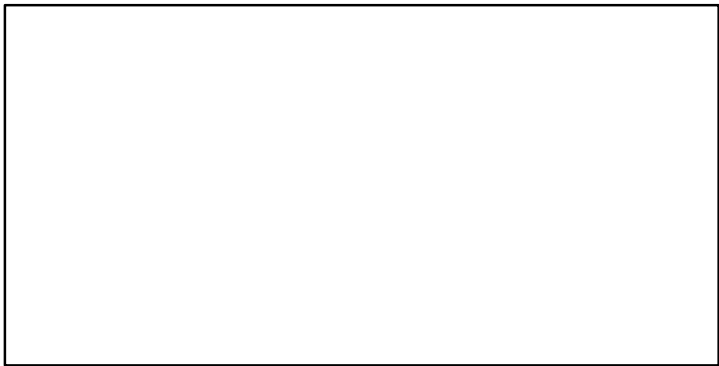


◆ Start Year ◆ End Year * No Data

TB*



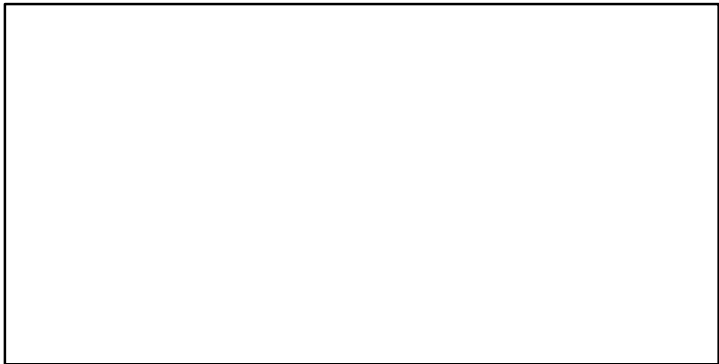
SSB*



TN *



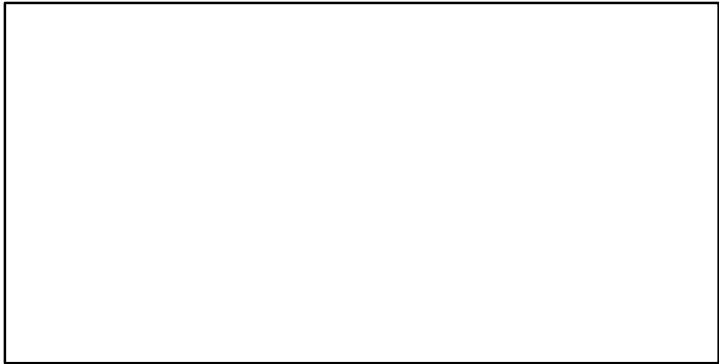
F*



ER*

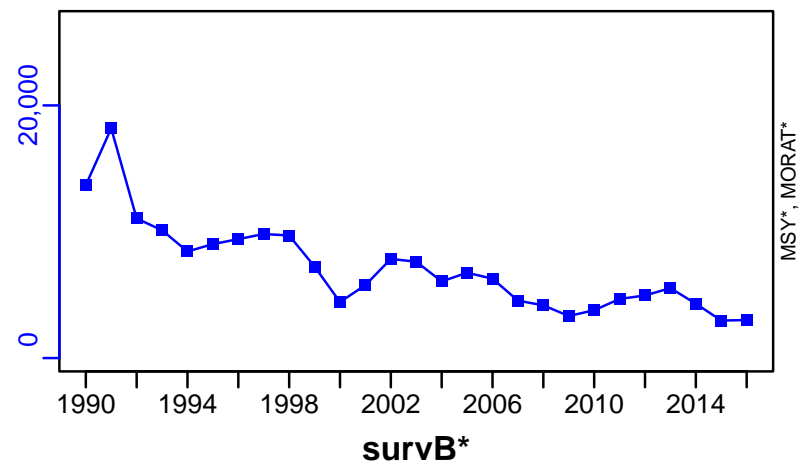


Recruits*

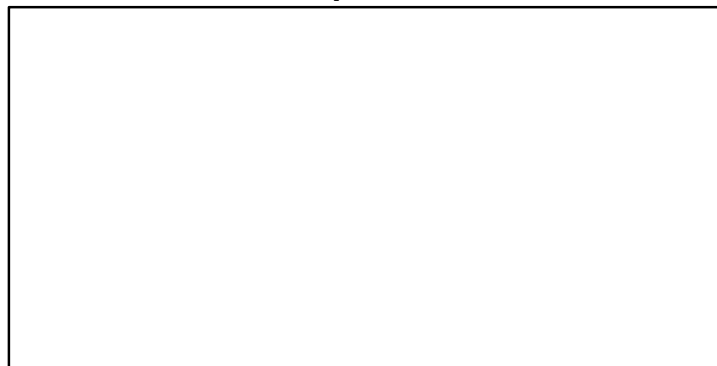


Cuttlefish North West Africa Senegal_The Gambia [CUTTLENWASEN_GMB]

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



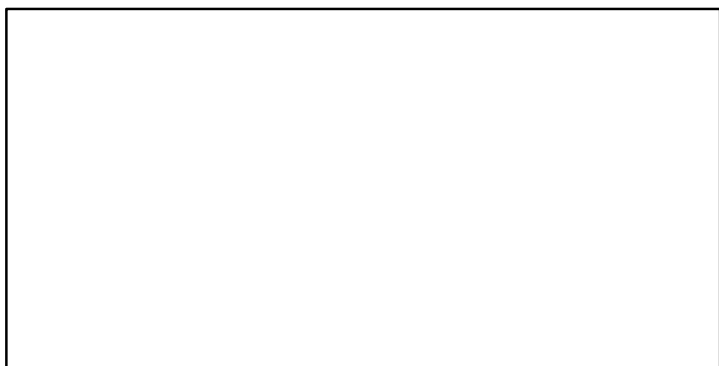
TAC*, Cpair*, Cadv*



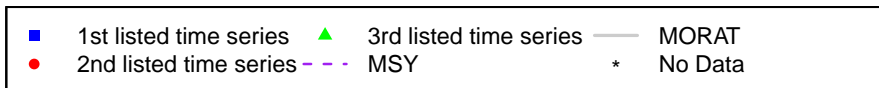
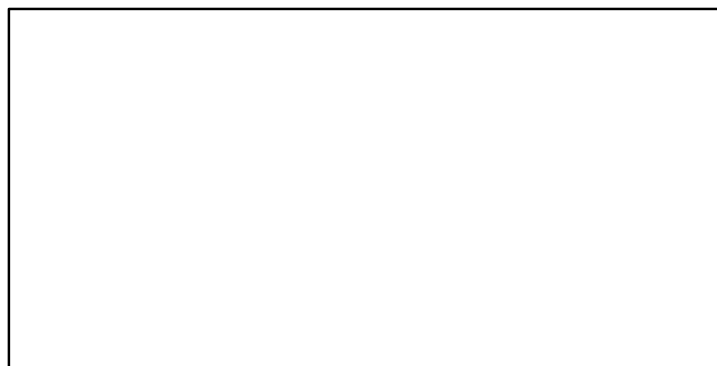
CPUE*



EFFORT*



CdivMSY*



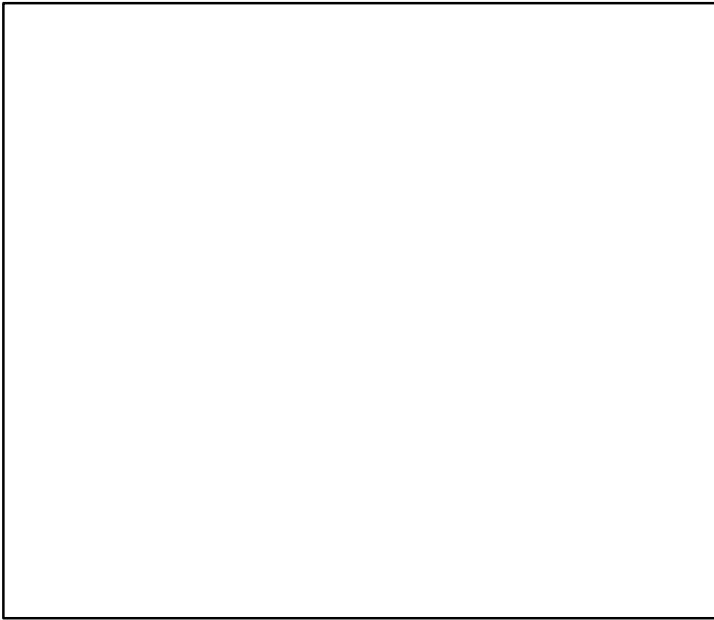
European squid North West Africa Cape Blanc [ESQUIDNWACBL]

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

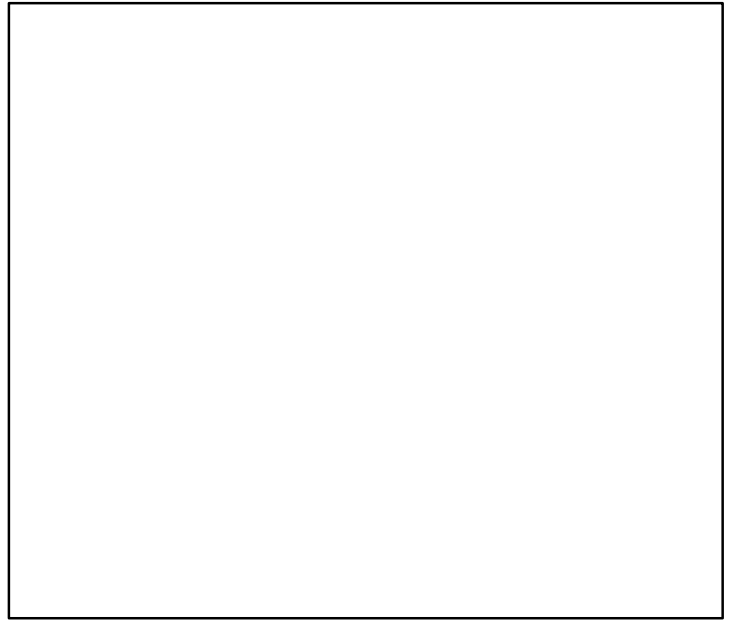
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2920		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

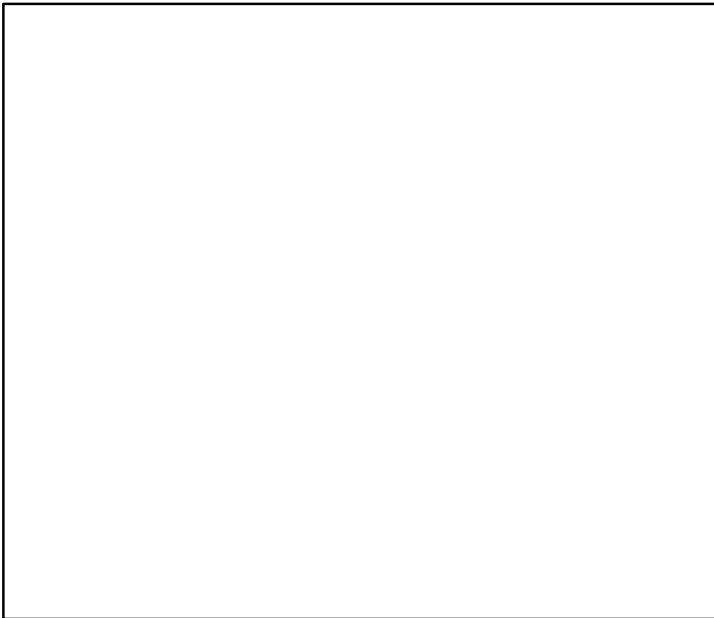
Kobe MSY*



Kobe MGT*



Spawner Recruit*



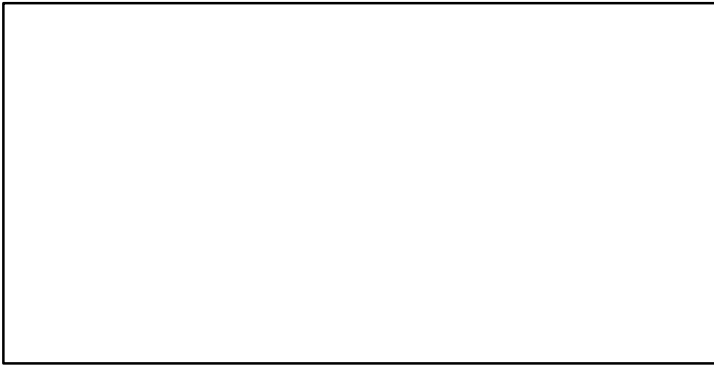
Production*



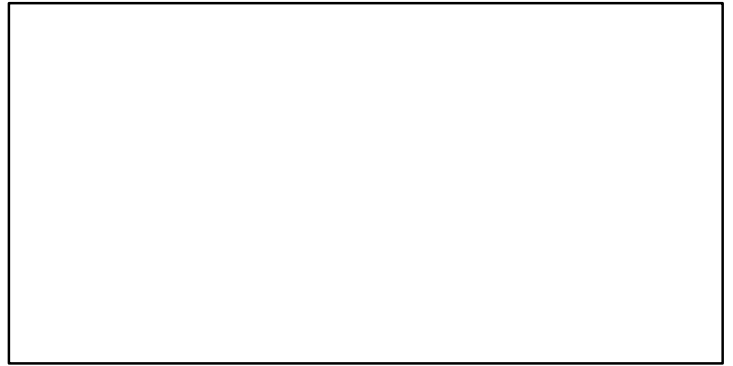
◆ Start Year ◆ End Year * No Data

European squid North West Africa Cape Blanc [ESQUIDNWACBL]

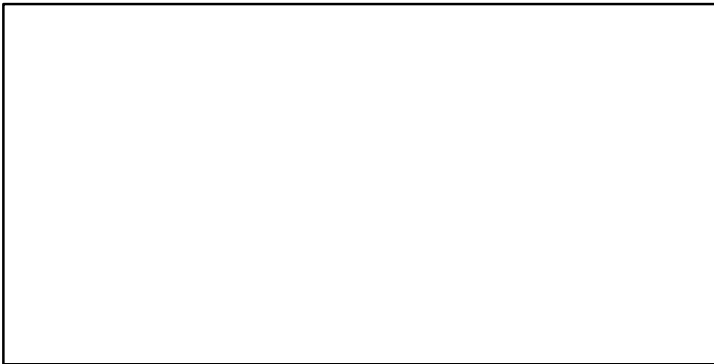
TB*



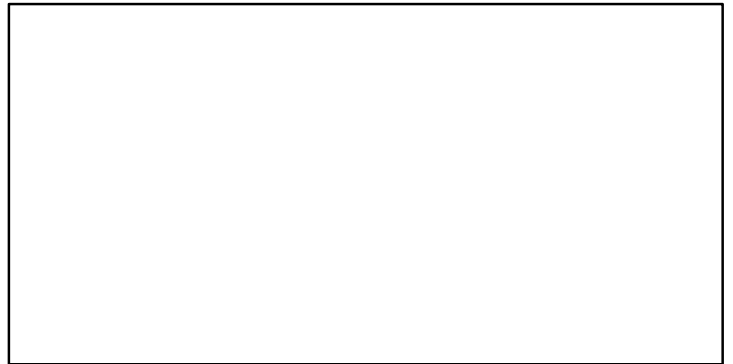
SSB*



TN *



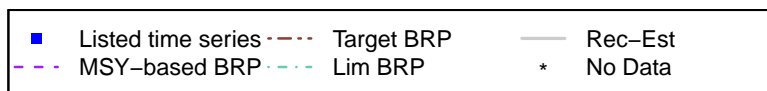
F*



ER*



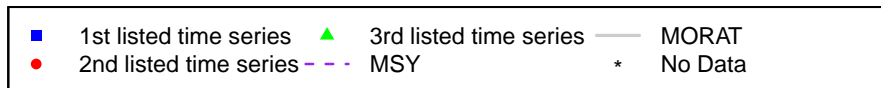
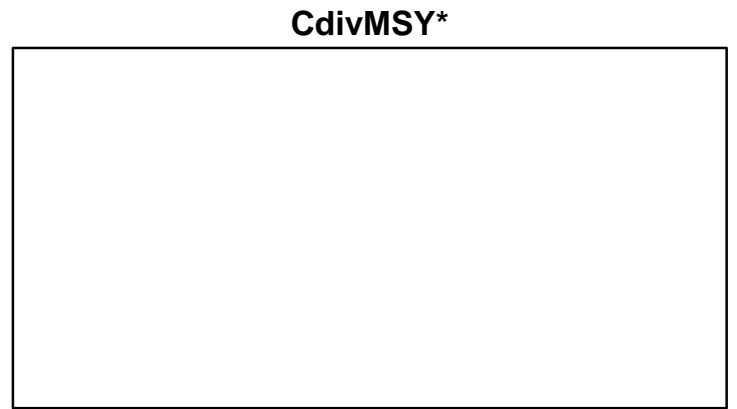
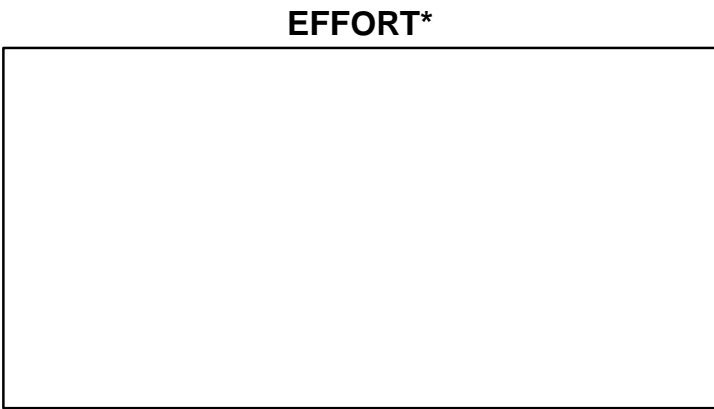
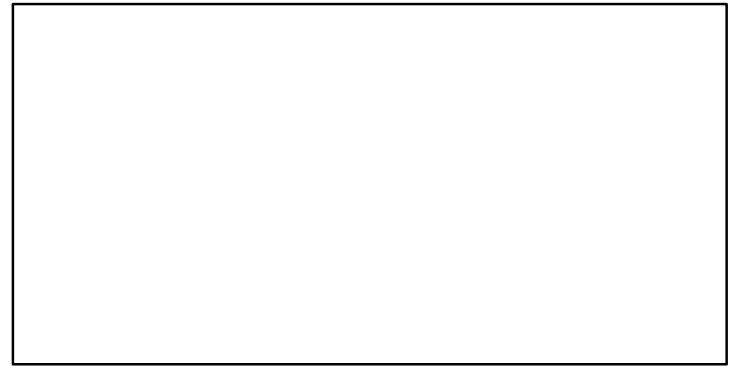
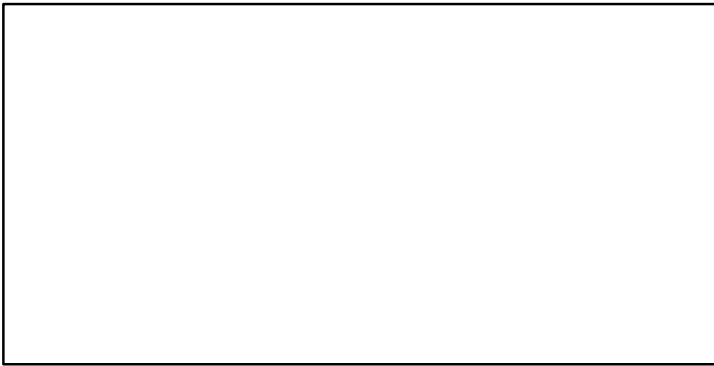
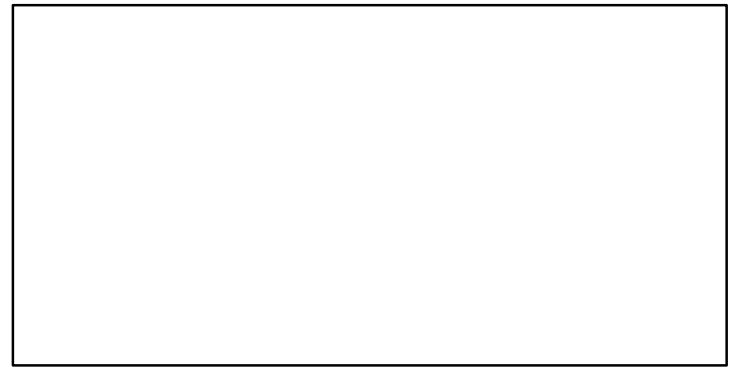
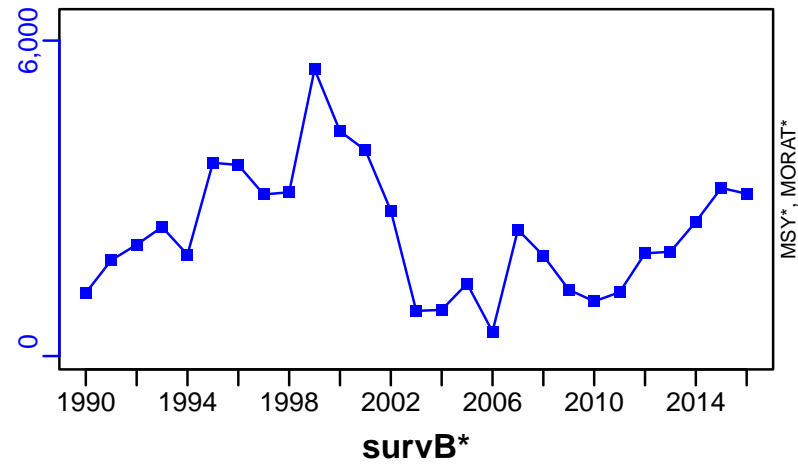
Recruits*



European squid North West Africa Cape Blanc [ESQUIDNWACBL]

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

TAC*, Cpair*, Cadv*



European squid North West Africa Dakhla [ESQUIDNWADAK]

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	15,597		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



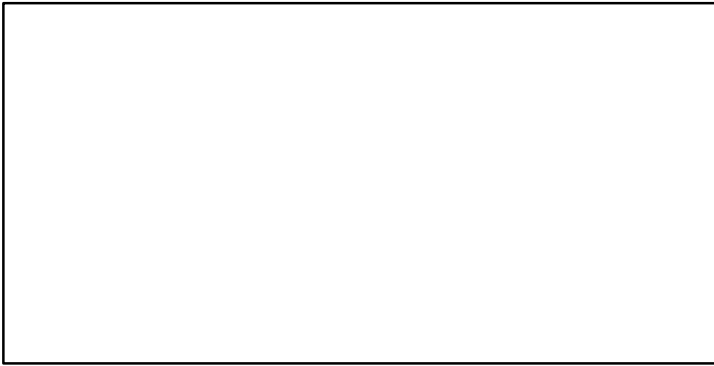
Production*



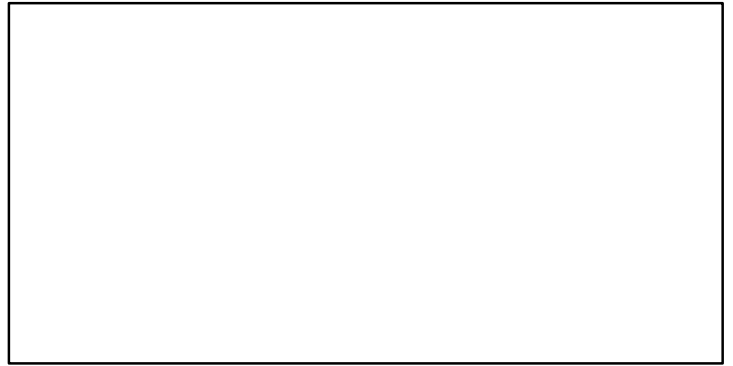
◆ Start Year ◆ End Year * No Data

European squid North West Africa Dakhla [ESQUIDNWADAK]

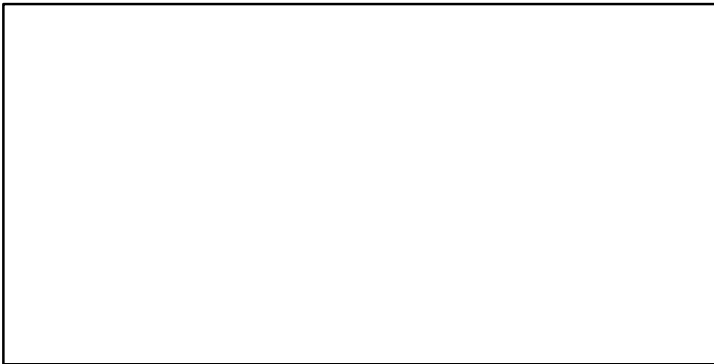
TB*



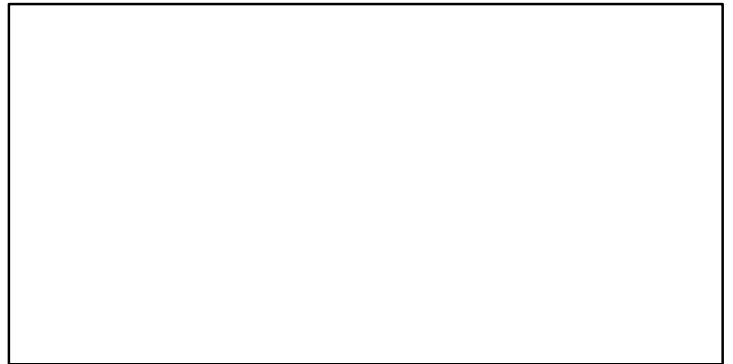
SSB*



TN *



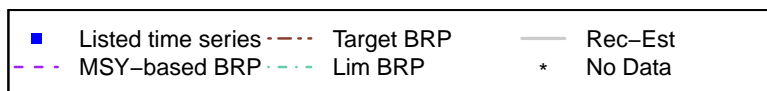
F*



ER*

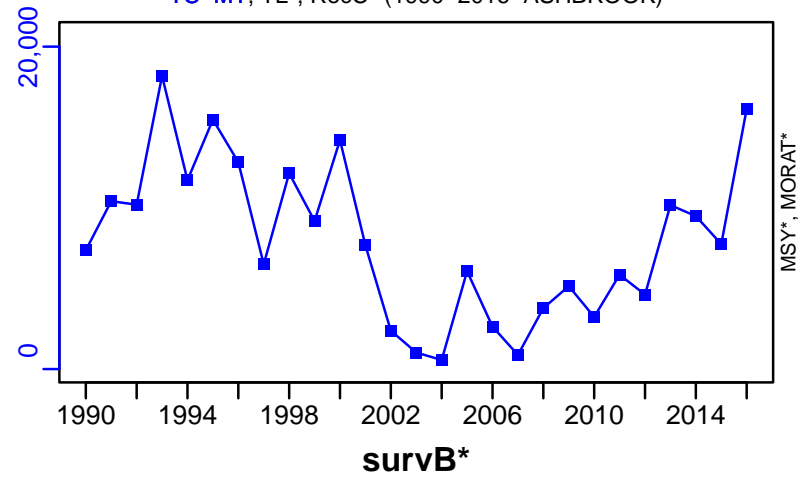


Recruits*



European squid North West Africa Dakhla [ESQUIDNWADAK]

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



TAC*, Cpair*, Cadv*



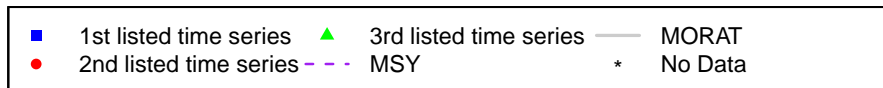
CPUE*



EFFORT*



CdivMSY*



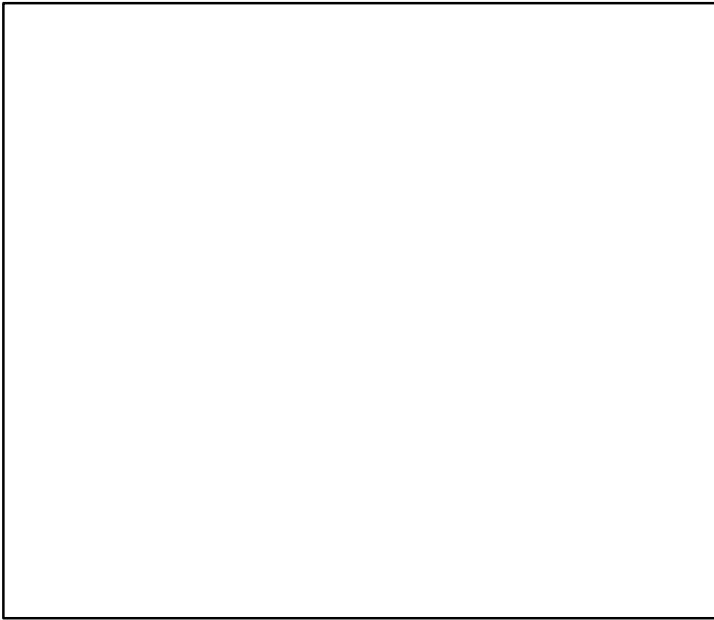
European squid North West Africa Senegal_The Gambia [ESQUIDNWASEN_GMB]

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

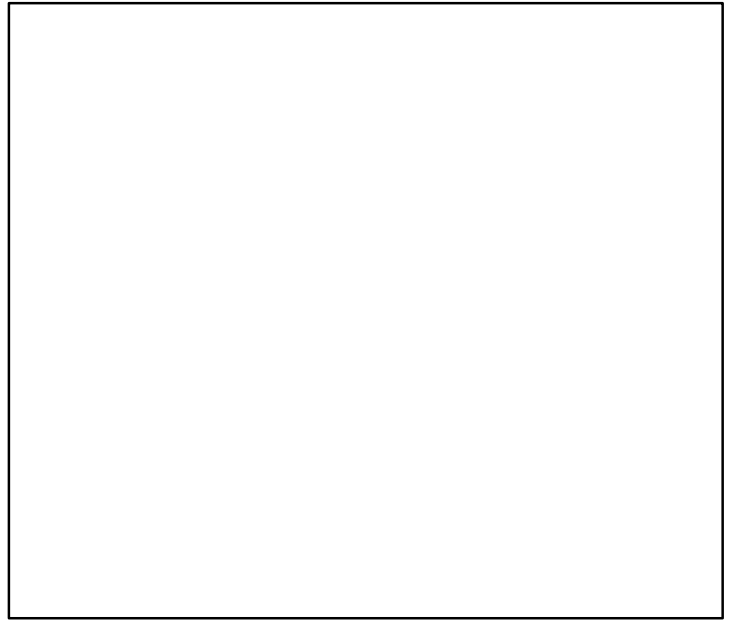
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	148		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

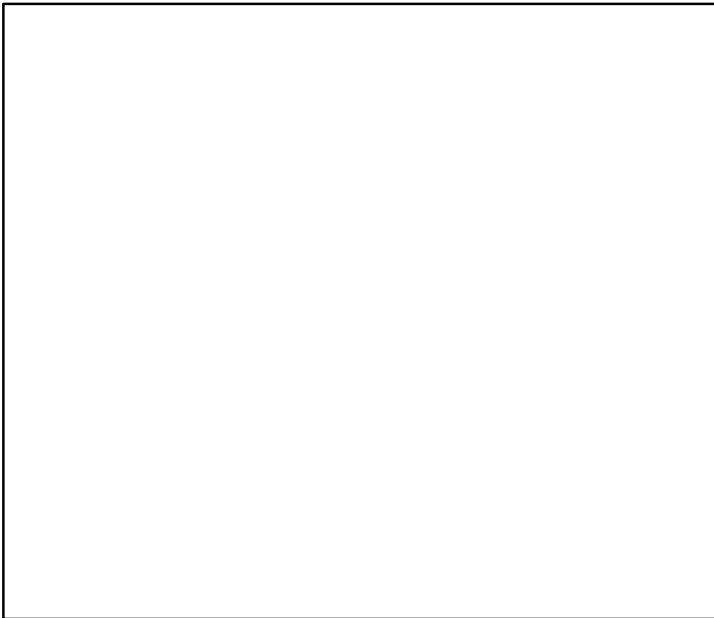
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



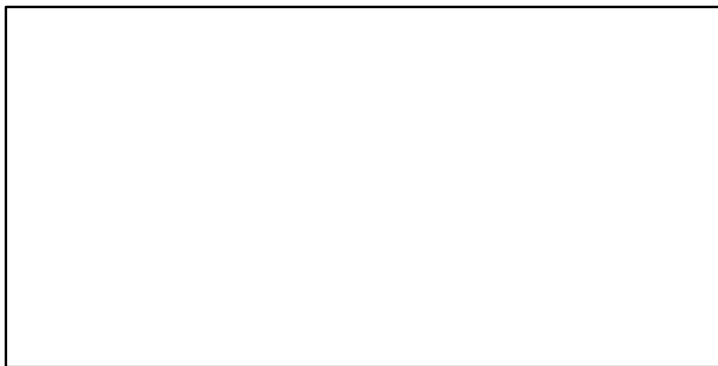
F*



ER*

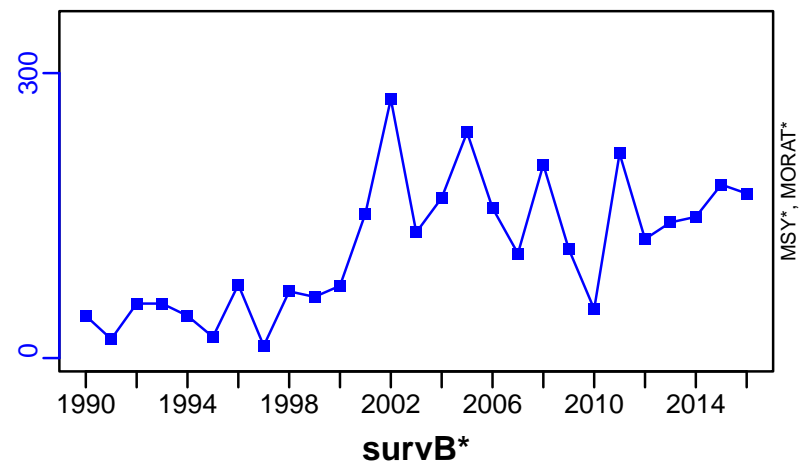


Recruits*

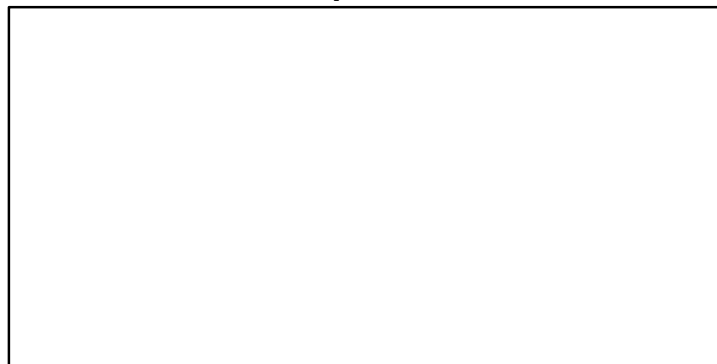


European squid North West Africa Senegal_The Gambia [ESQUIDNWASEN_GMB]

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



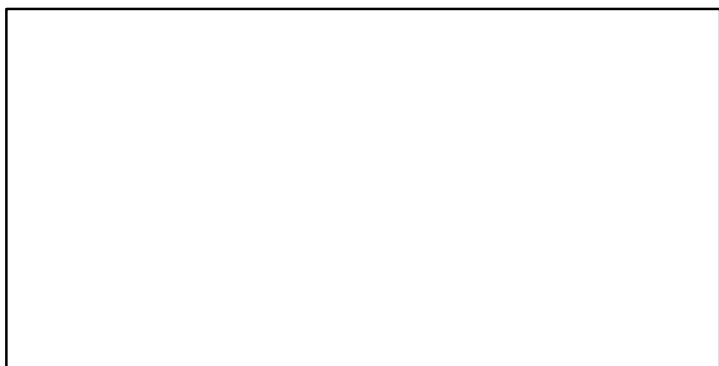
TAC*, Cpair*, Cadv*



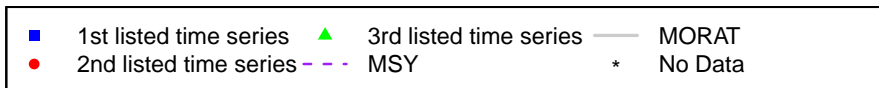
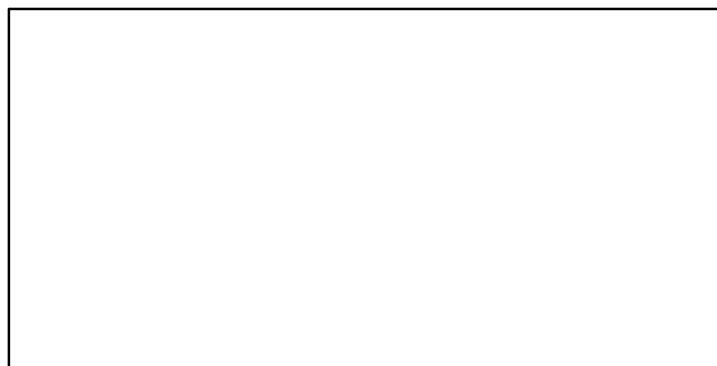
CPUE*



EFFORT*



CdivMSY*



Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

Metadata	
Scientific Name	Enteroctopus dofleini
Current Assess ID	AFSC-GPOCTOBSAI-1997-2019-SISIMP2021-2
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015, 2017, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	268		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

Kobe MSY*



Kobe MGT*



Spawner Recruit*



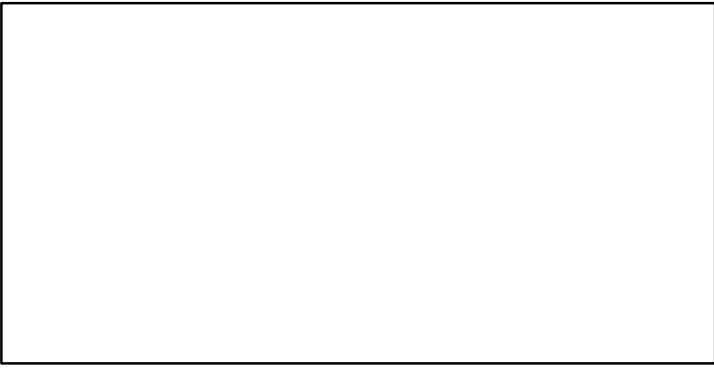
Production*



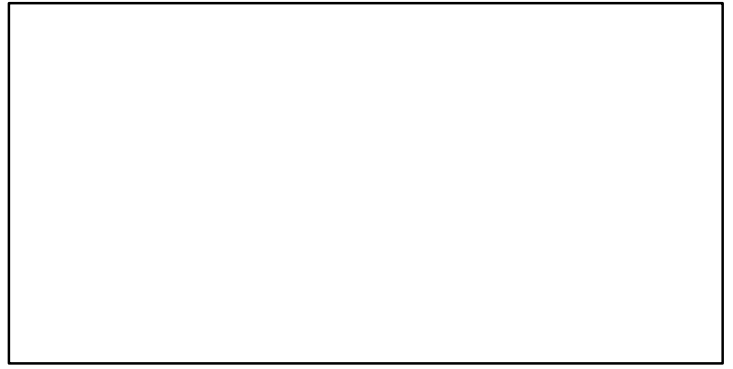
◆ Start Year ◆ End Year * No Data

Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

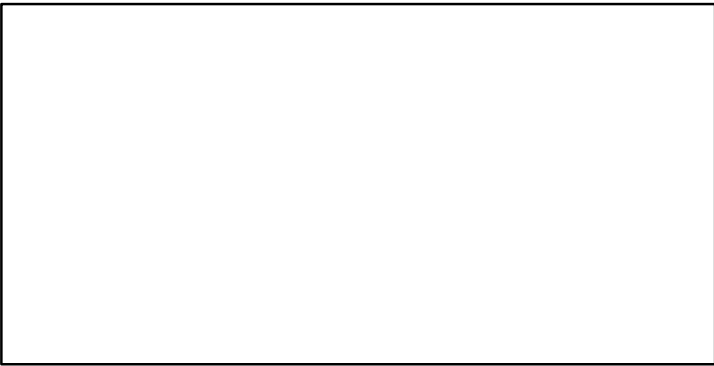
TB*



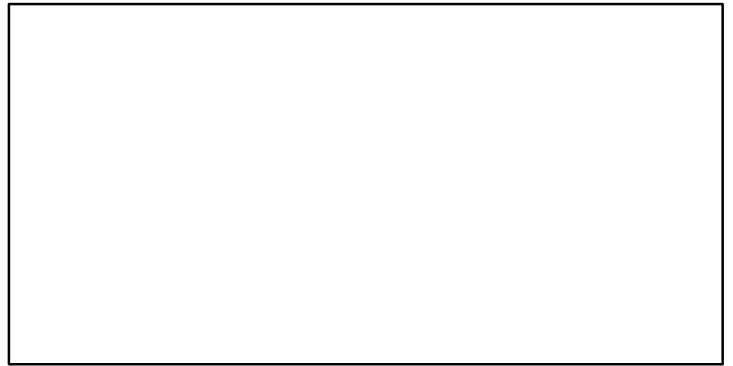
SSB*



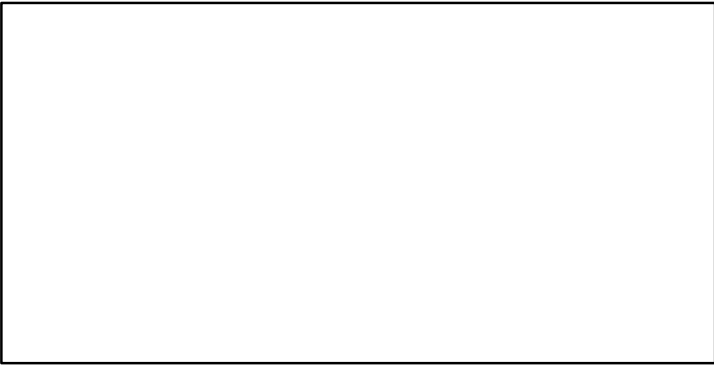
TN *



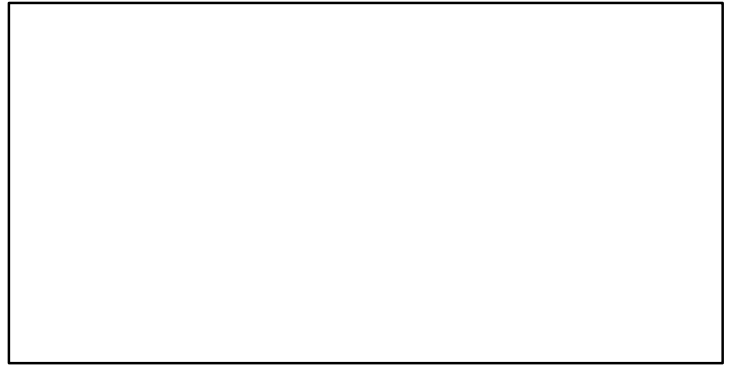
F*



ER*



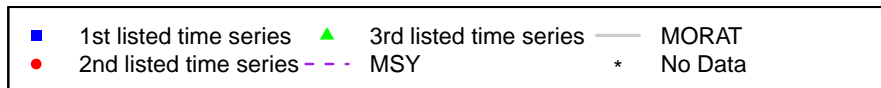
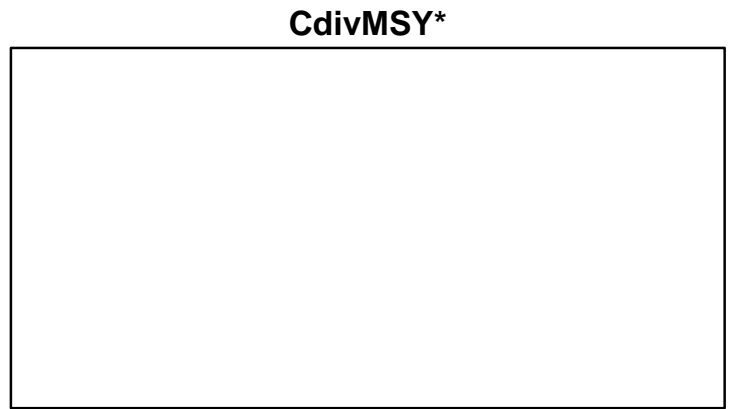
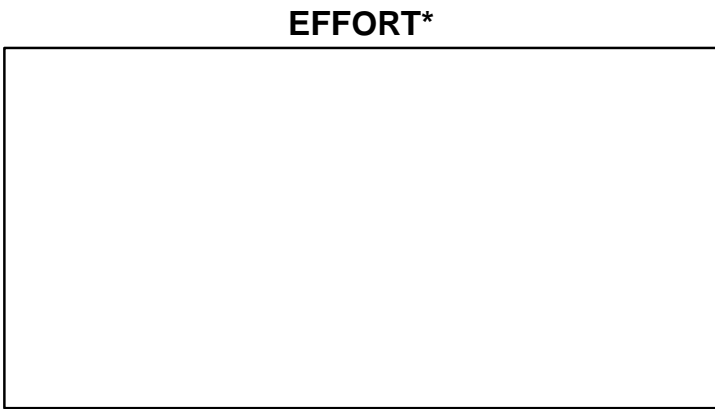
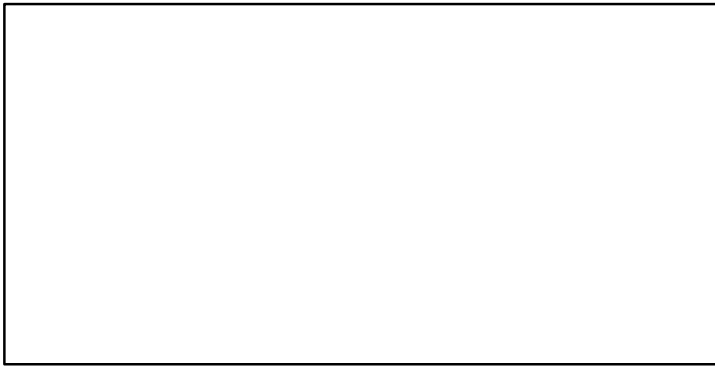
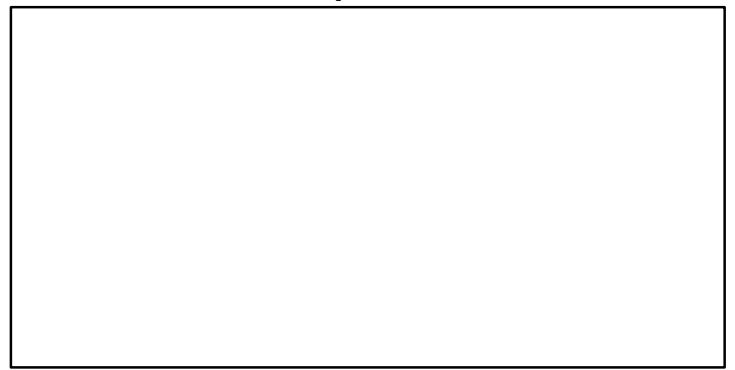
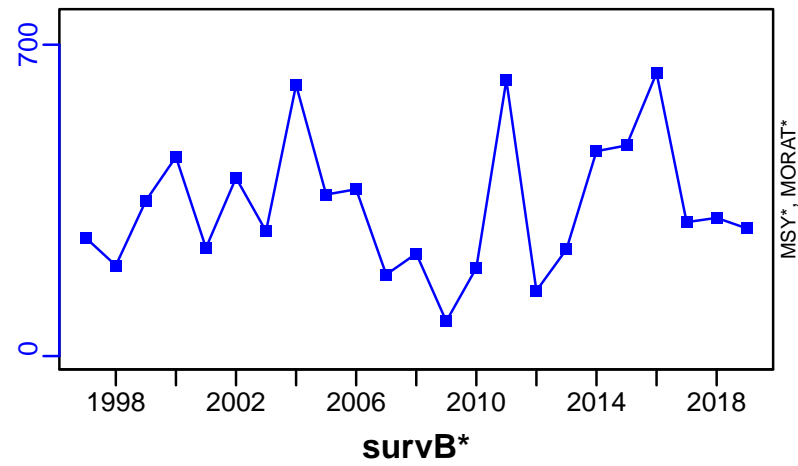
Recruits*



Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

TC-MT, TL*, RecC* (1997-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*

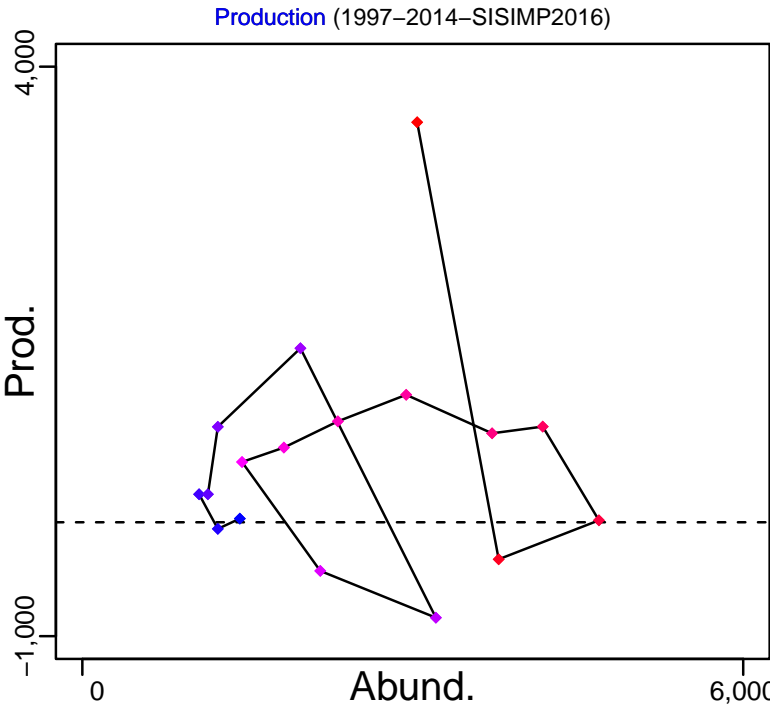
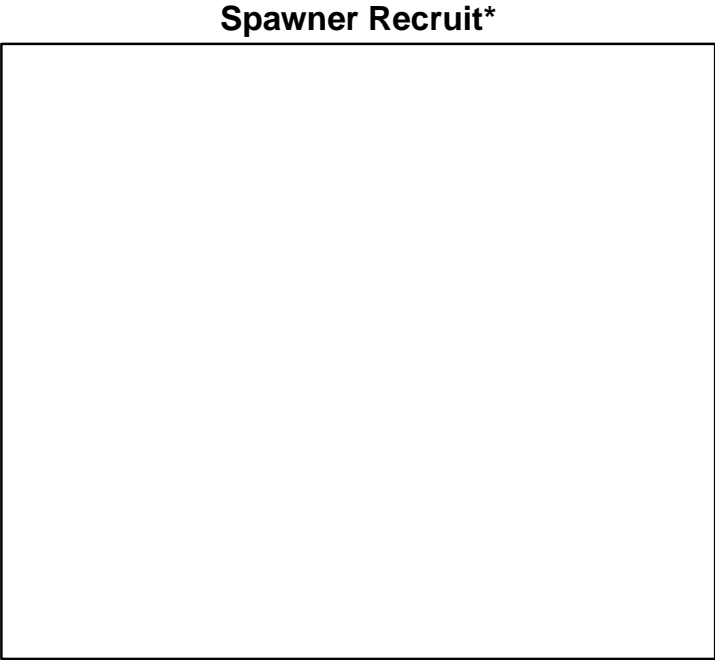
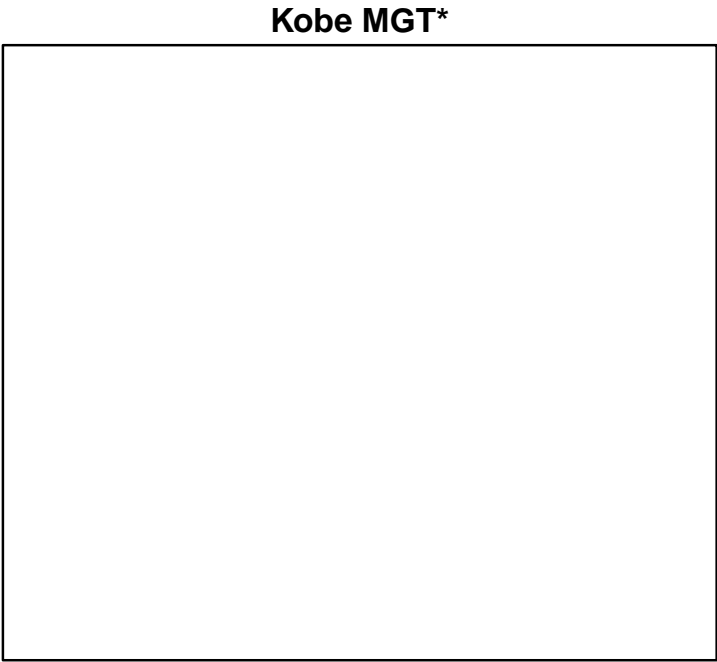
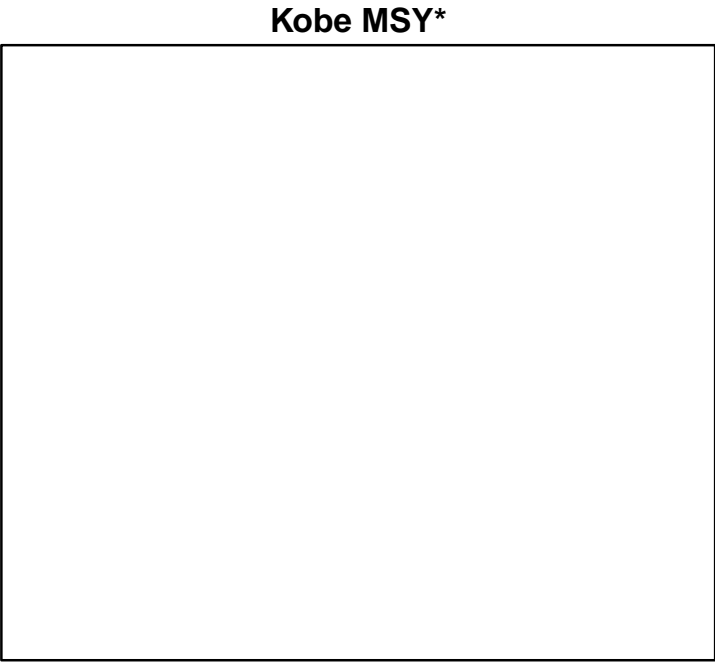


Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

Metadata	
Scientific Name	Enteroctopus dofleini
Current Assess ID	AFSC-GPOCTOGA-1997-2016-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	12,300	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.213	-	-
TC	TC-MT	2016	382		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

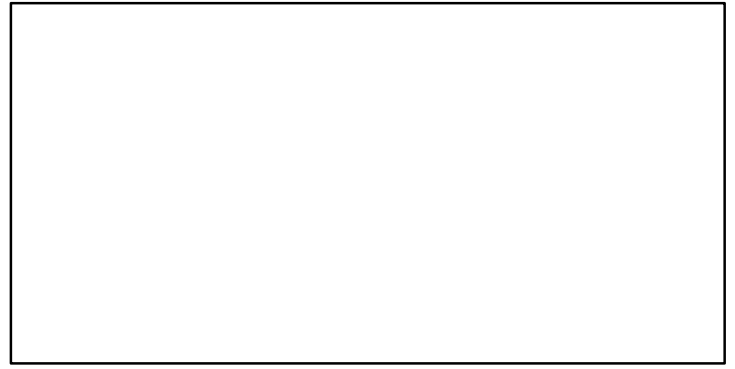
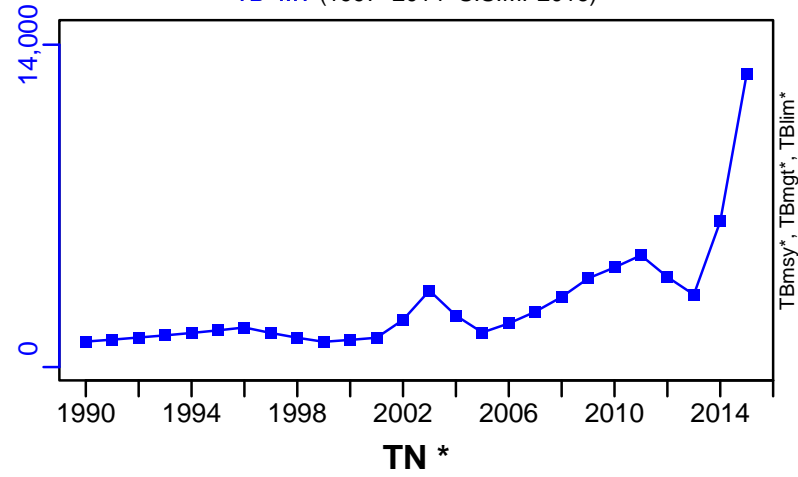


◆ Start Year ◆ End Year * No Data

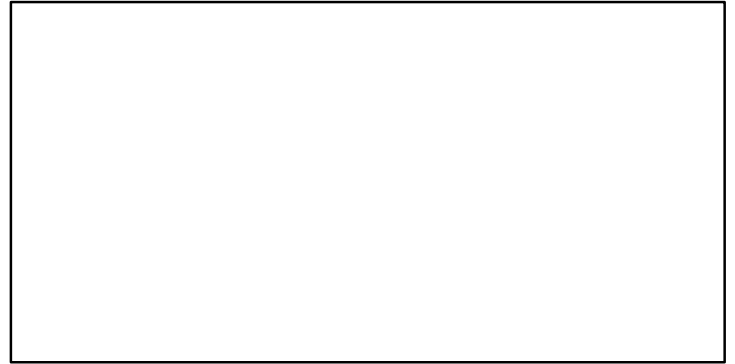
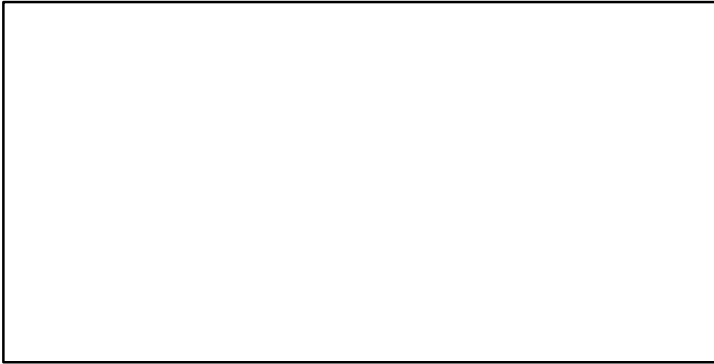
Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

TB-MT (1997–2014–SISIMP2016)

SSB*

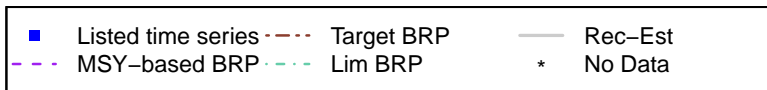
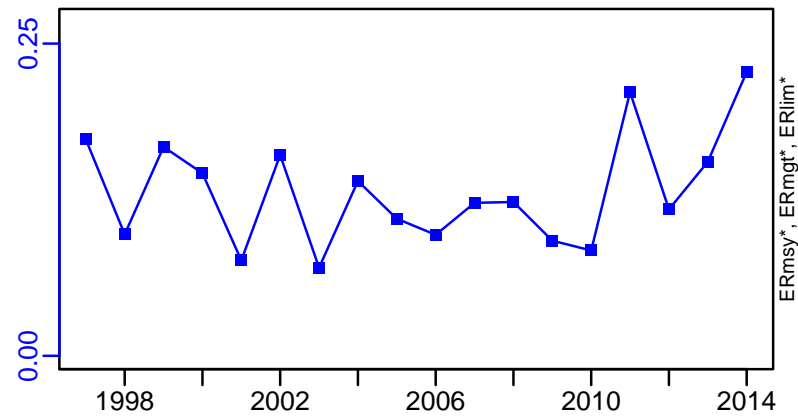


F*



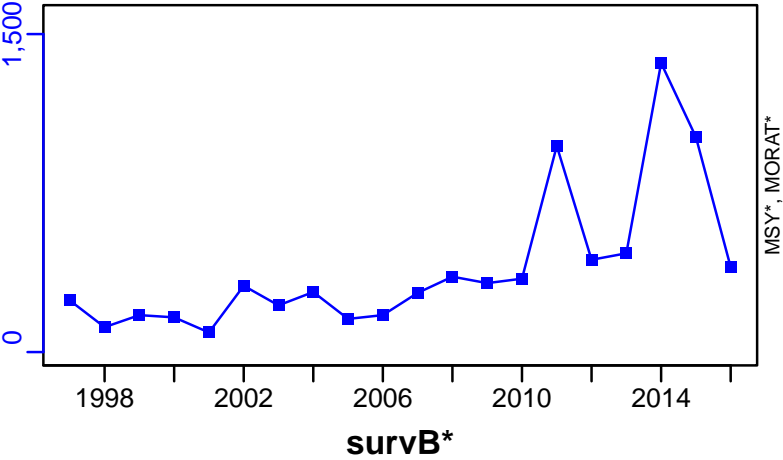
ER-calc-ratio (1997–2014–SISIMP2016)

Recruits*



Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

TC-MT, TL*, RecC* (1997-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Northern shortfin squid Northwestern Atlantic Coast [ILLEXNWATLC]

Metadata	
Scientific Name	Illex illecebrosus
Current Assess ID	NEFSC-ILLEXNWATLC-1967-2005-HENDRICKSON
Area	Northwestern Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2005

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-relative	2005	0.7	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2005	12,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

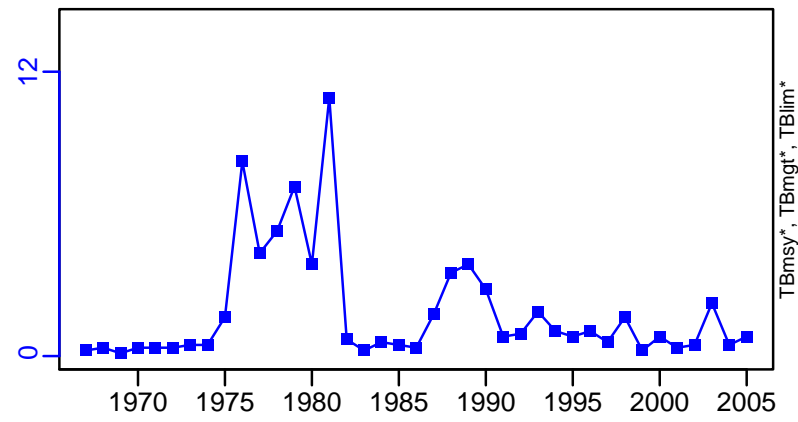


◆ Start Year	◆ End Year	* No Data
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Northern shortfin squid Northwestern Atlantic Coast [ILLEXNWATLC]

TB-relative (1967–2005–HENDRICKSON)

SSB*

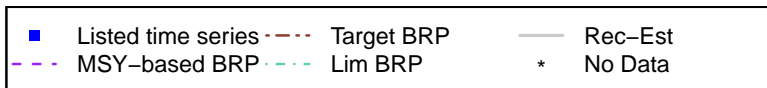


TN *

F*

ER*

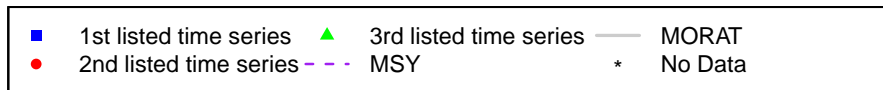
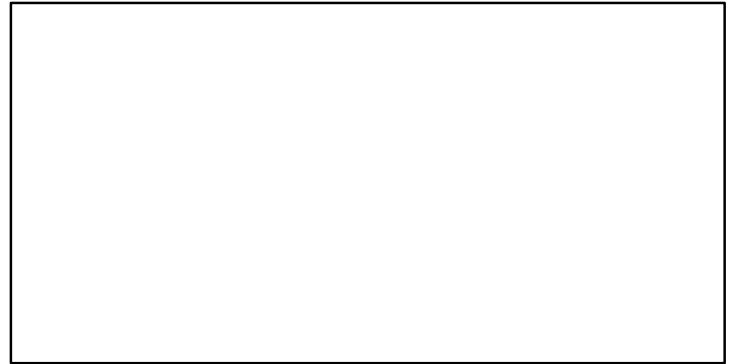
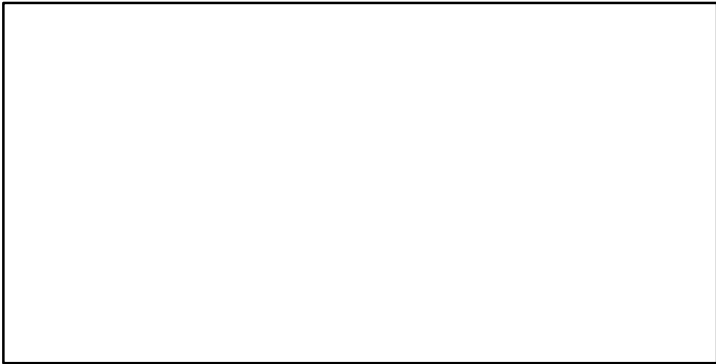
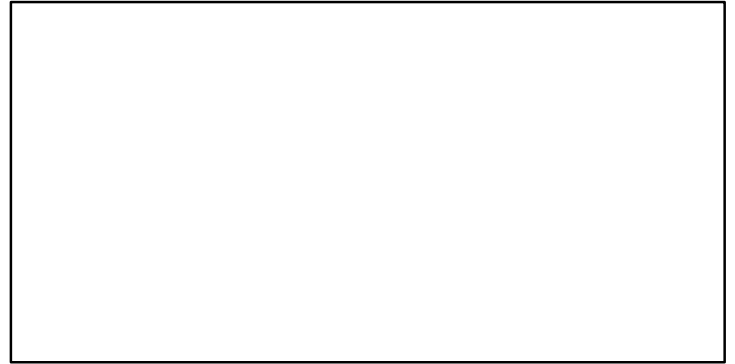
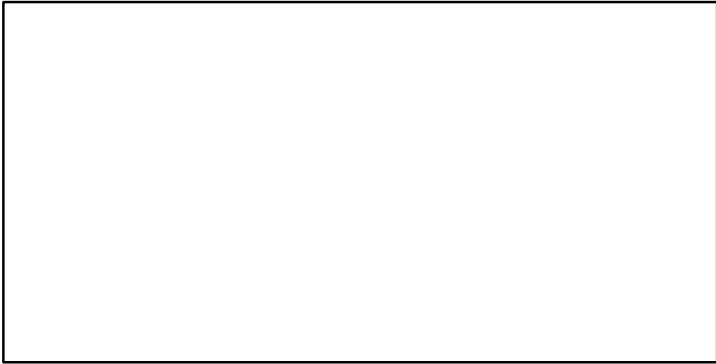
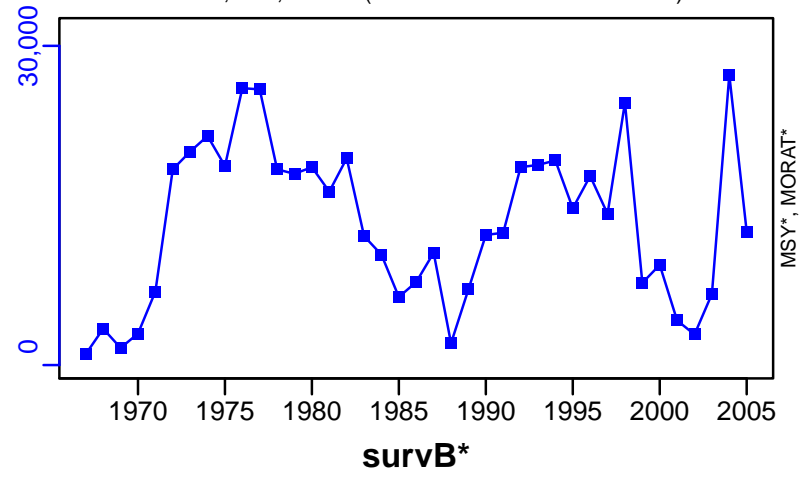
Recruits*



Northern shortfin squid Northwest Atlantic Coast [ILLEXNWATLC]

TL-MT, TC*, RecC* (1967-2005-HENDRICKSON)

TAC*, Cpair*, Cadv*



Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

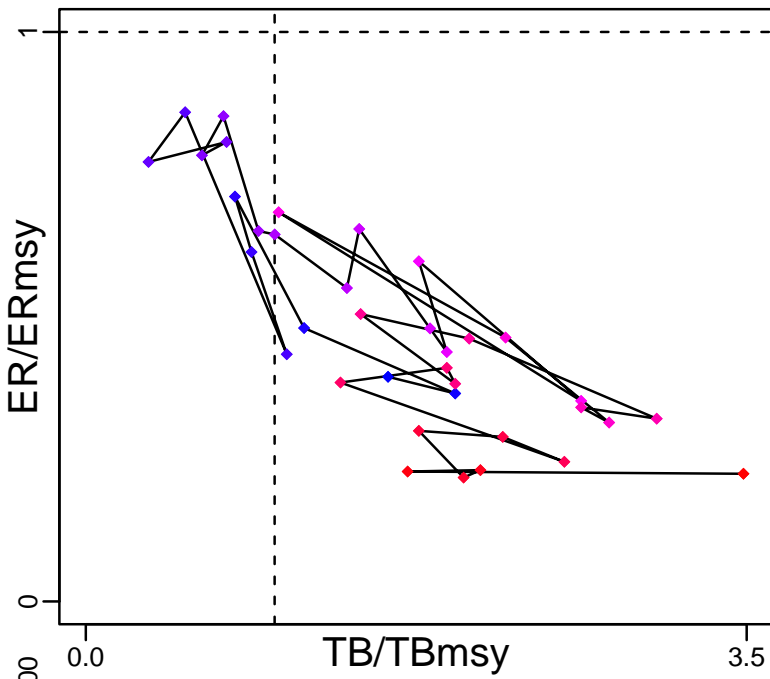
Metadata	
Scientific Name	Todarodes pacificus
Current Assess ID	FAFRFJ-JCSQUIDJPNAR-1979-2014-JPNIMP2016
Area	Japan Autumn recruitment
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2014	674,723
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.446
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2014	300,926
M	M-1/yr	2014	1.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

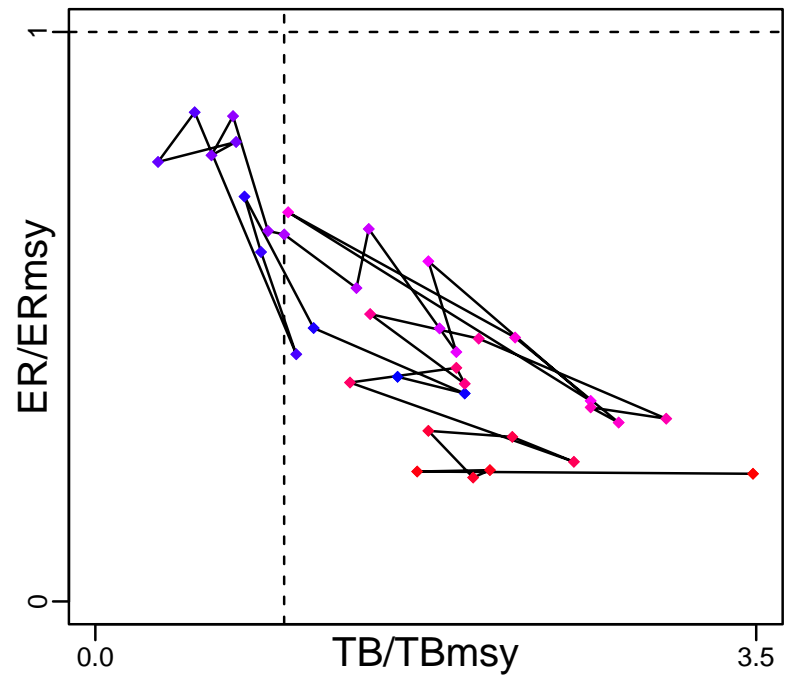
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	2,350,000	-	0.5
SSB	SSB-MT	2014	1,110,000	Both	0.5
TN	-	-	-	-	-
R	R-E00	2014	8.37×10^9	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.1	-	-
TC	TC-MT	2014	235,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	3.483		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.224		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

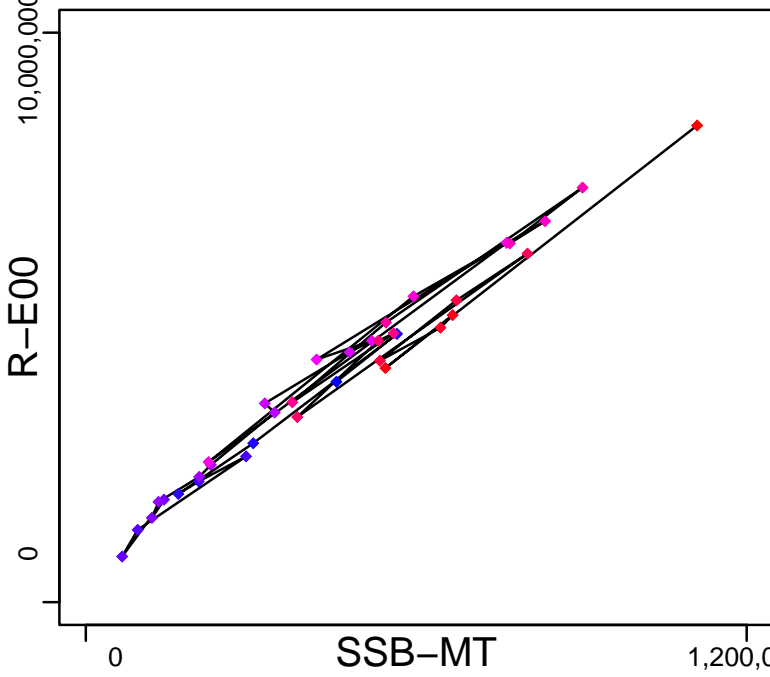
Kobe MSYpref (1979–2014–JPNIMP2016)



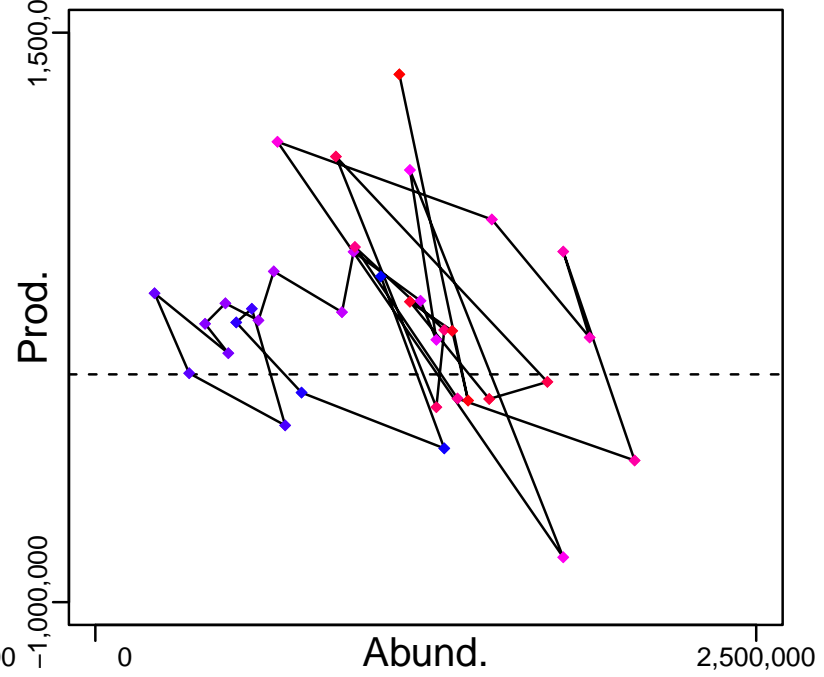
Kobe MGTpref (1979–2014–JPNIMP2016)



Spawner Recruit (1979–2014–JPNIMP2016)



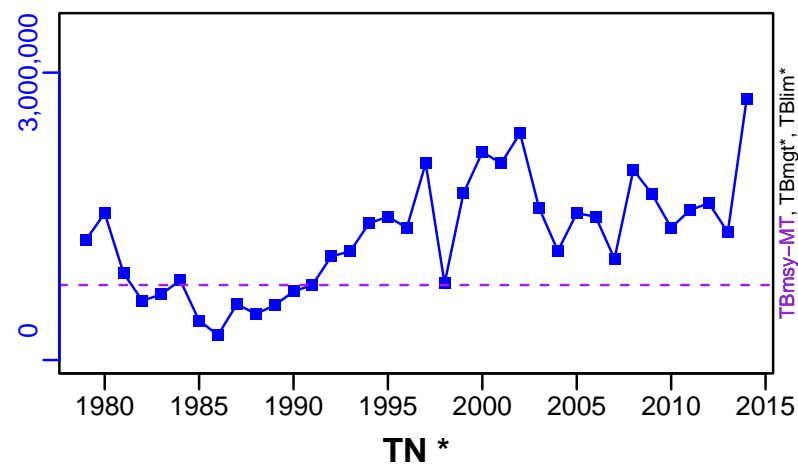
Production (1979–2014–JPNIMP2016)



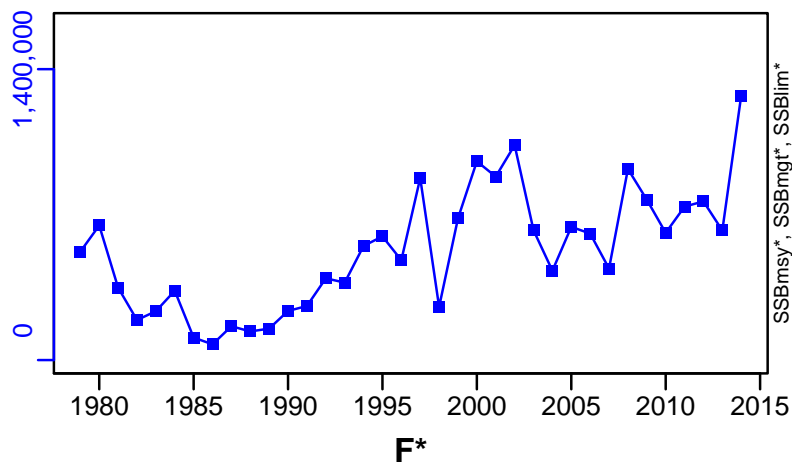
◆ Start Year ◆ End Year * No Data

Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

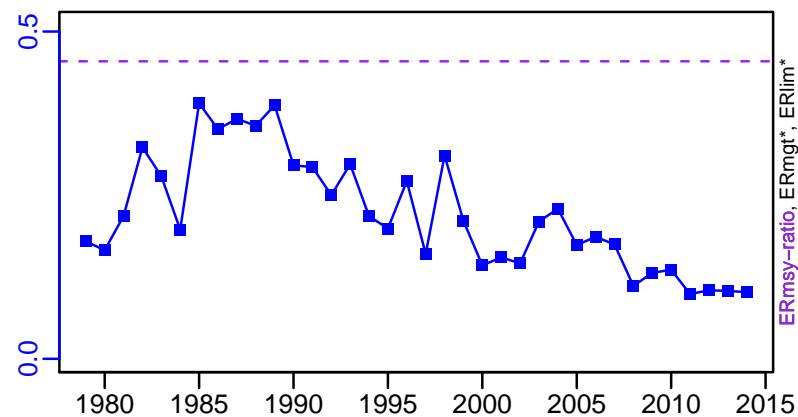
TB-MT (1979-2014-JPNIMP2016)



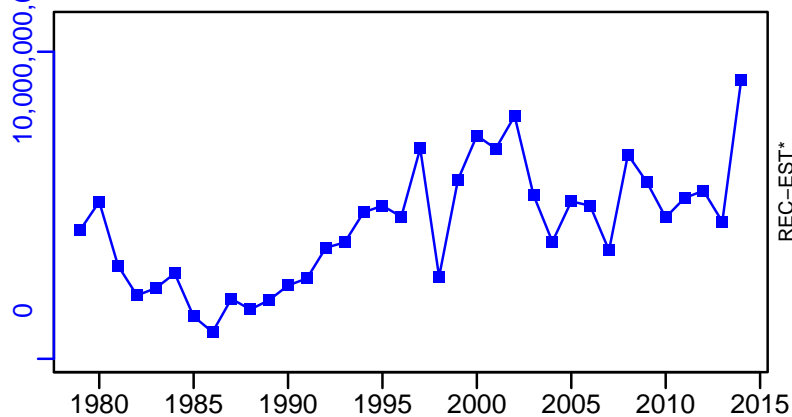
SSB-MT (1979-2014-JPNIMP2016)



ER-calc-ratio (1979-2014-JPNIMP2016)



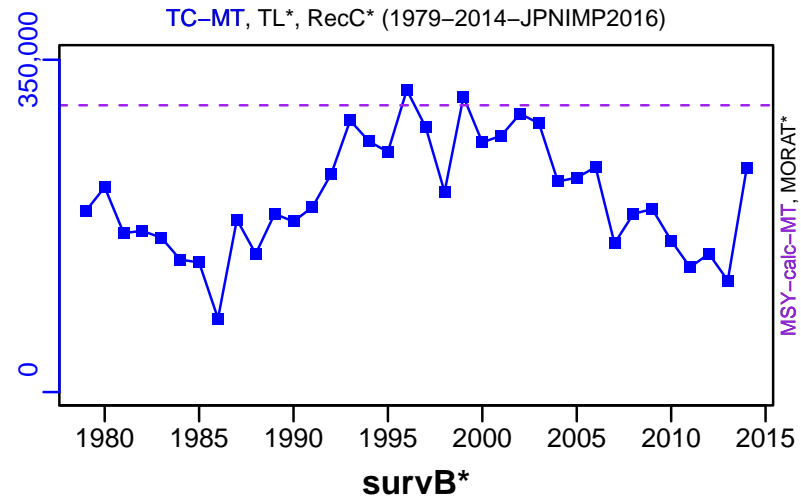
R-E00 (1979-2014-JPNIMP2016)



Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

TC-MT, TL*, RecC* (1979-2014-JPNIMP2016)

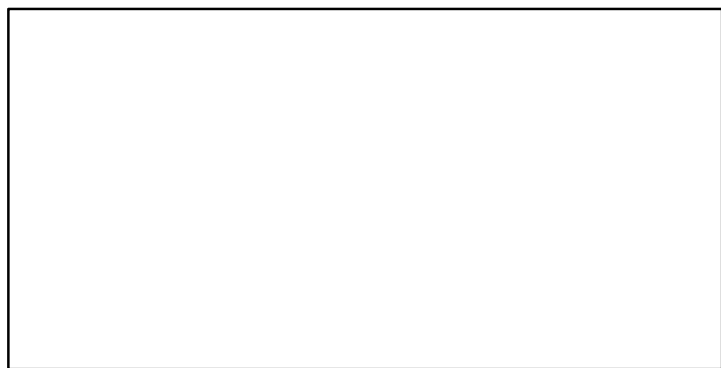
TAC*, Cpair*, Cadv*



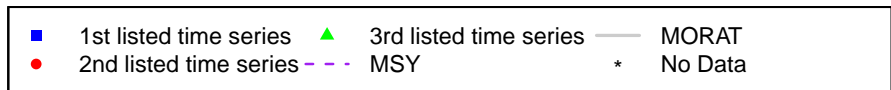
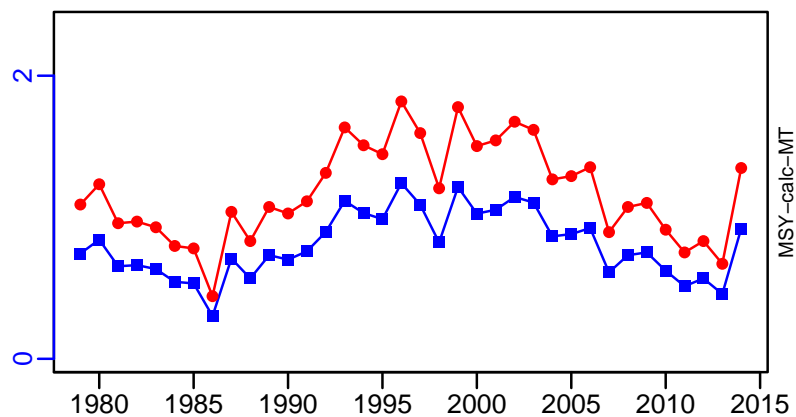
CPUE*



EFFORT*



TC-MT/MSY-calc-MT, CdivMEANC-ratio, (1979-2014-JPNIMP2016)



Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

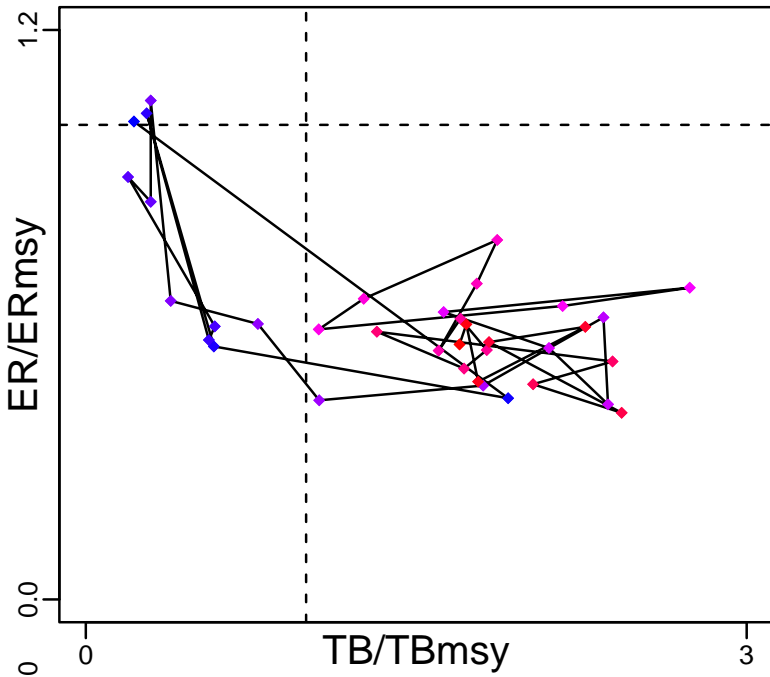
Metadata	
Scientific Name	Todarodes pacificus
Current Assess ID	FAFRFJ-JCSQUIDJPNWR-1979-2014-JPNIMP2016
Area	Japan Winter recruitment
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2014	485,117
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.459
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2014	222,669
M	M-1/yr	2014	1.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

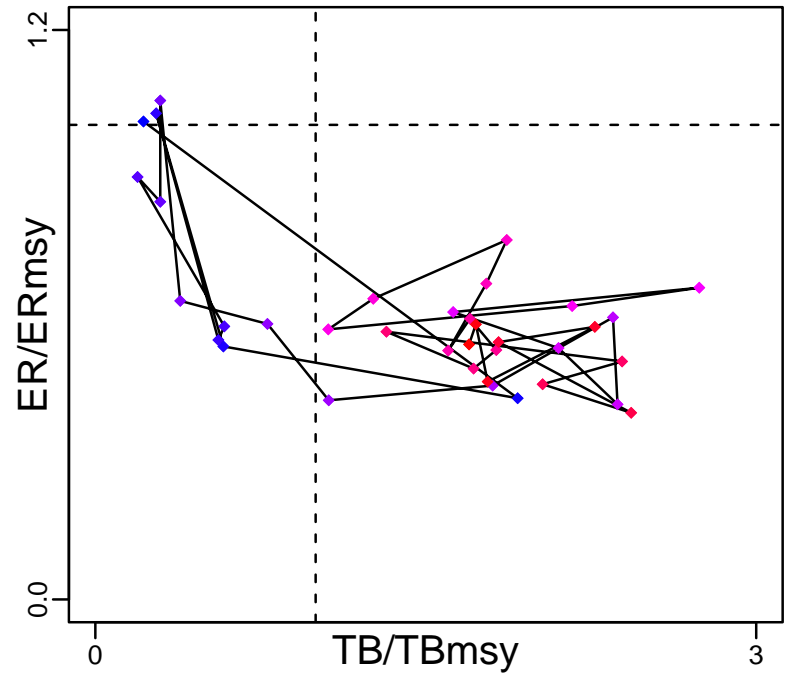
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	823,000	-	0.5
SSB	SSB-MT	2014	301,000	Both	0.5
TN	-	-	-	-	-
R	R-E00	2014	2.66×10^9	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.247	-	-
TC	TC-MT	2014	203,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	1.696		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.537		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

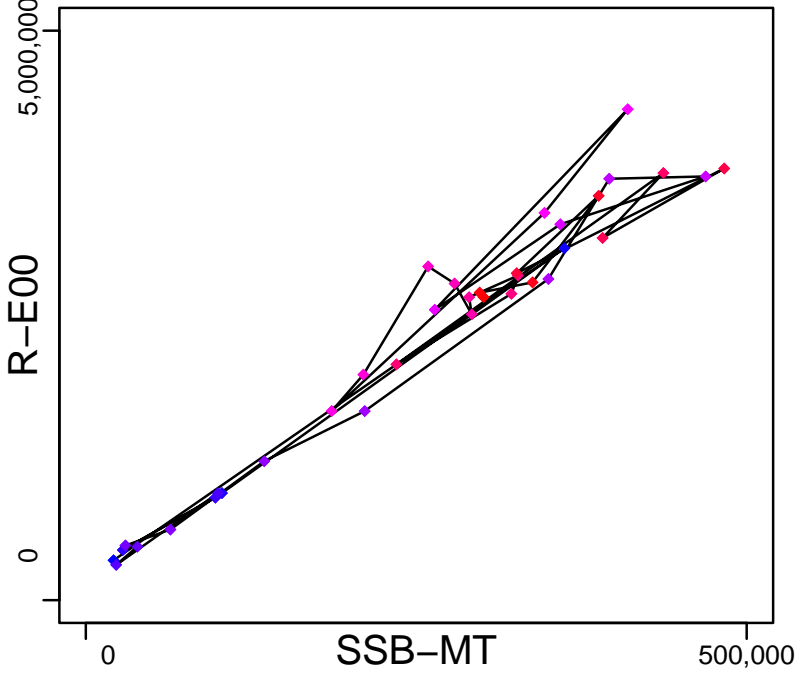
Kobe MSYpref (1979–2014–JPNIMP2016)



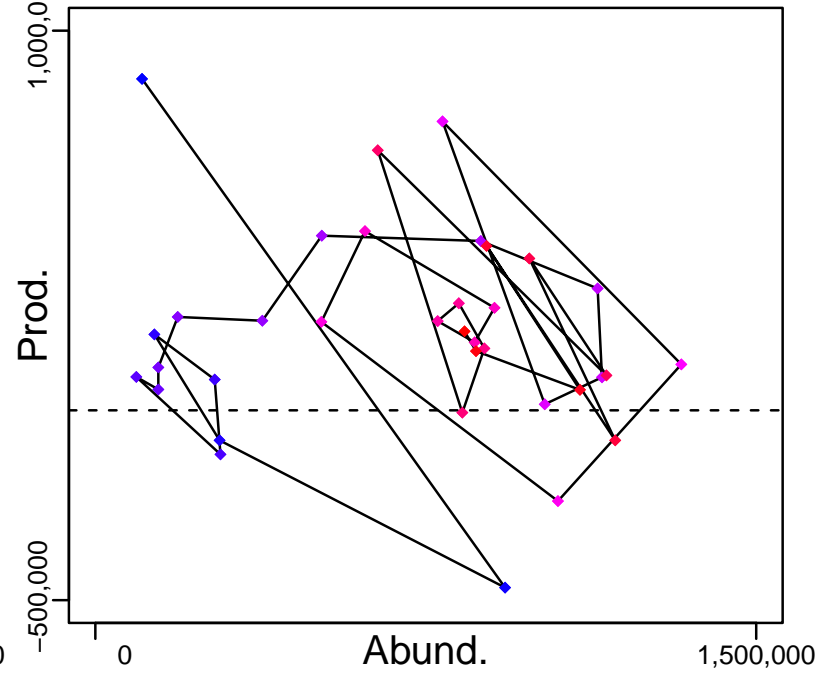
Kobe MGTpref (1979–2014–JPNIMP2016)



Spawner Recruit (1979–2014–JPNIMP2016)

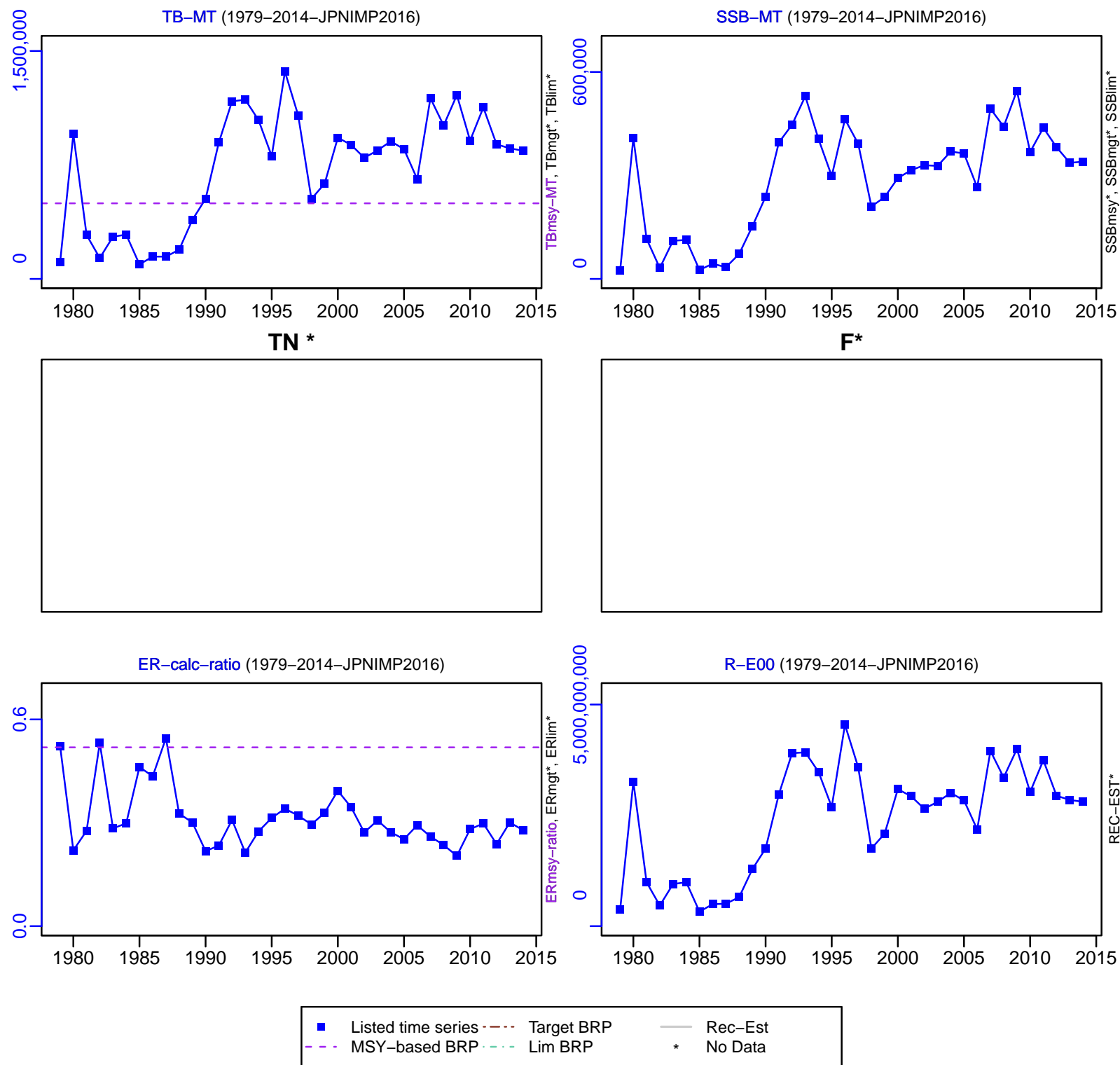


Production (1979–2014–JPNIMP2016)



◆ Start Year ◆ End Year * No Data

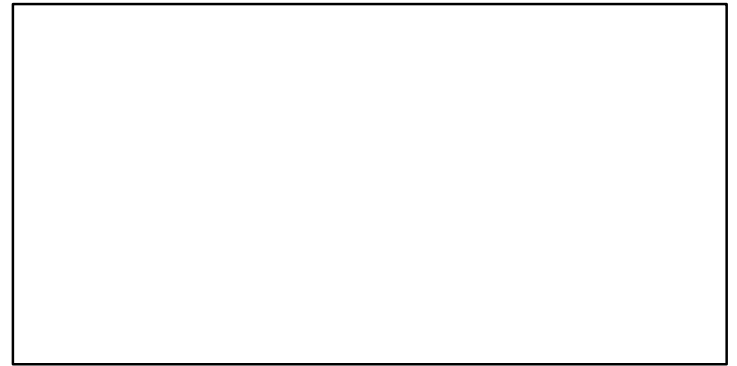
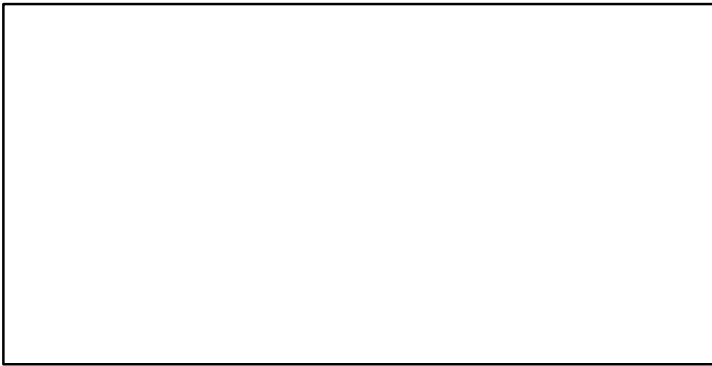
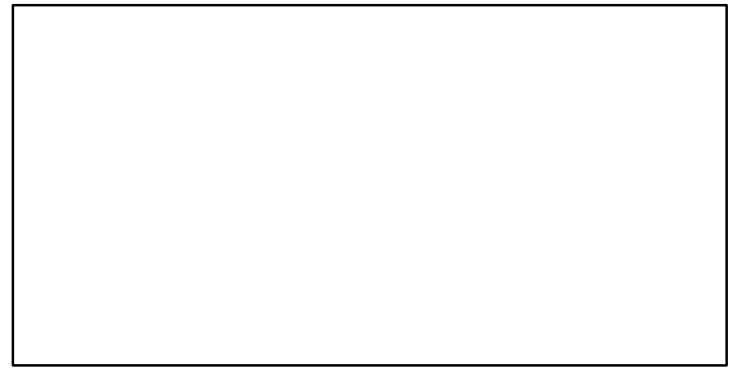
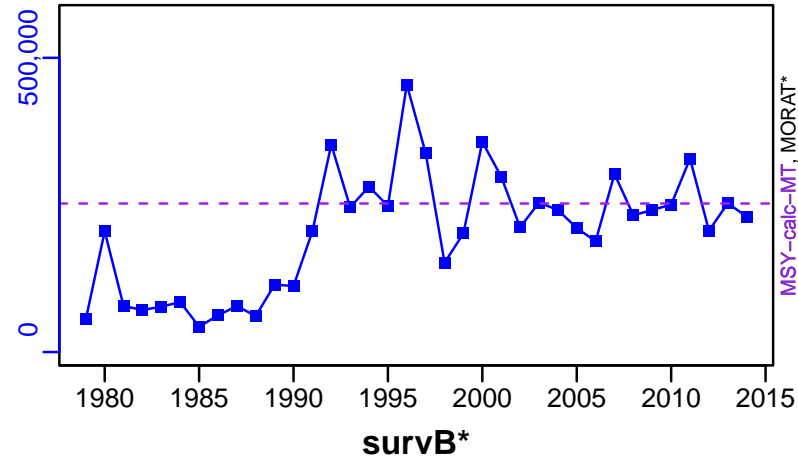
Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]



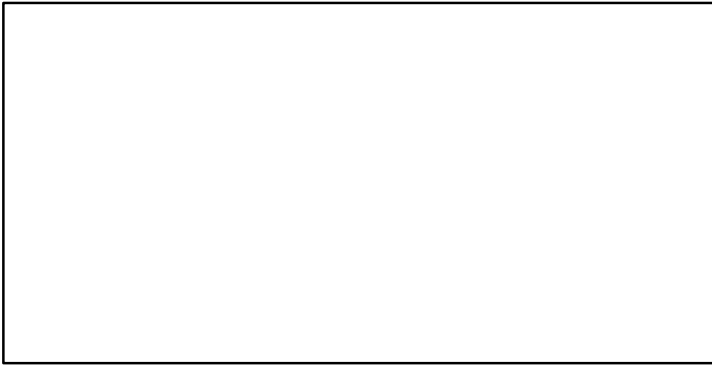
Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

TC-MT, TL*, RecC* (1979–2014–JPNIMP2016)

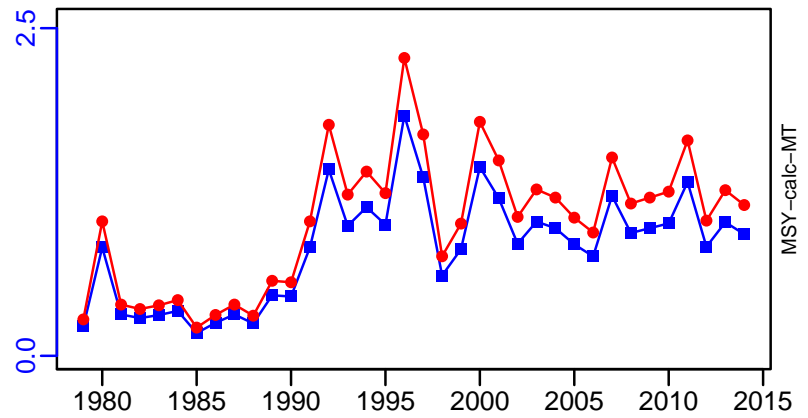
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-calc-MT, CdivMEANC-ratio, (1979–2014–JPNIMP2016)



Longfin inshore squid Atlantic Coast [LISQUIDATLC]

Metadata	
Scientific Name	Loligo pealeii
Current Assess ID	SEFSC-LISQUIDATLC-1977-2022-SISIMP2024
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2009, 2016, 2019, 2022

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	39,800	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2009	0.24	-	-
ER	ER-ratio	2022	0.155	-	-
TC	TC-MT	2022	18,936		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2009	0.939		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

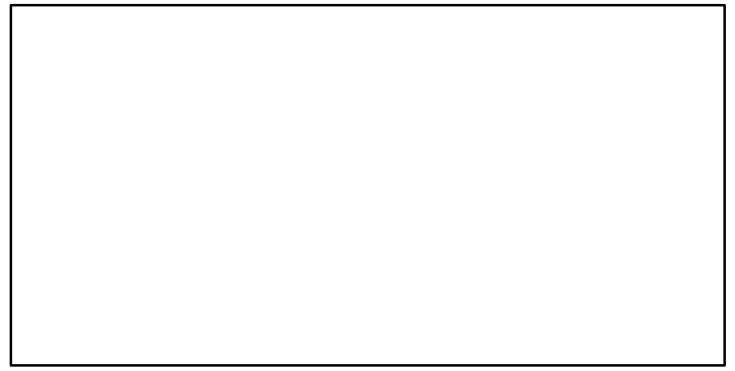
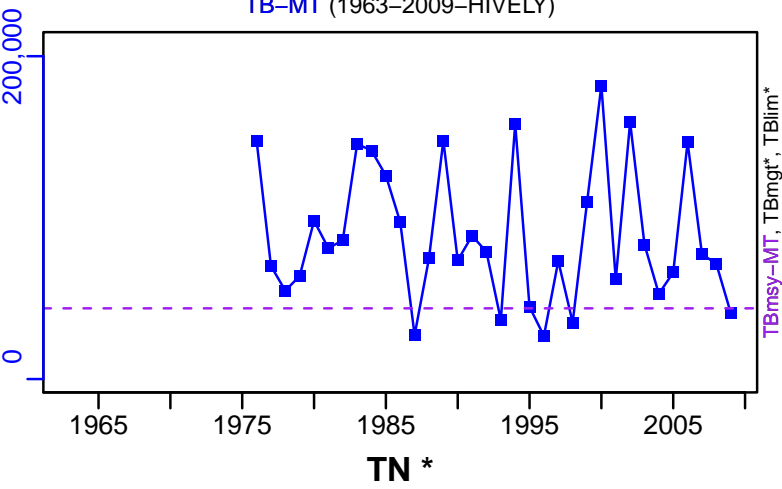


◆ Start Year ◆ End Year * No Data

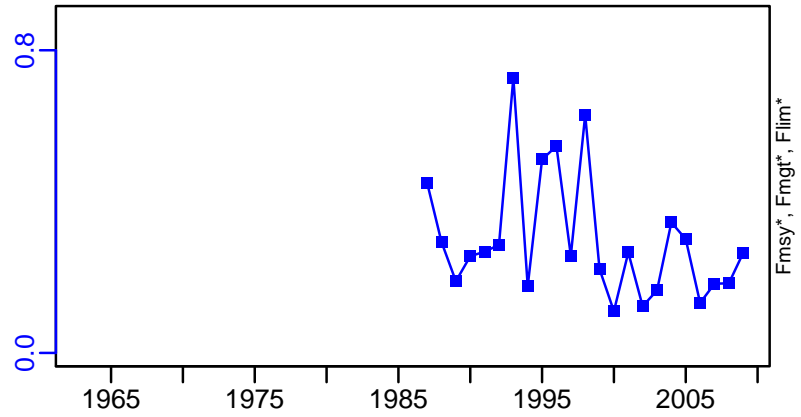
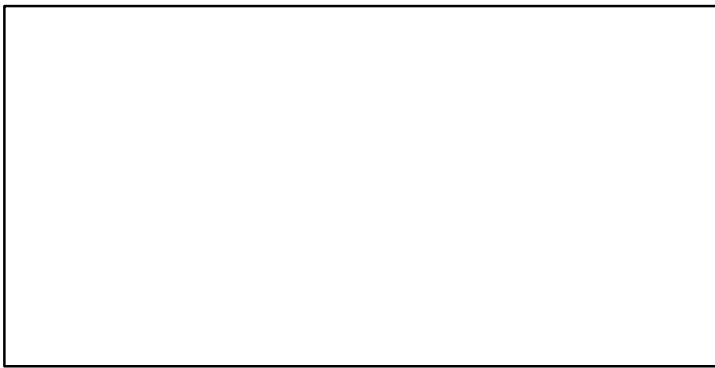
Longfin inshore squid Atlantic Coast [LISQUIDATLC]

TB-MT (1963–2009–HIVELY)

SSB*

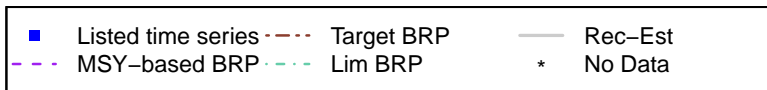
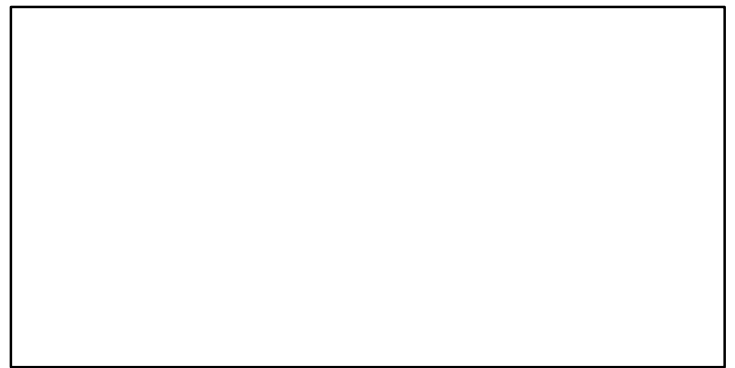
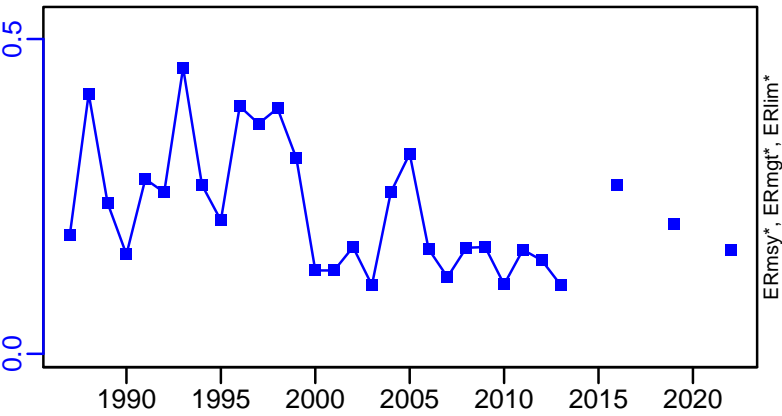


F-1/yr (1963–2009–HIVELY)



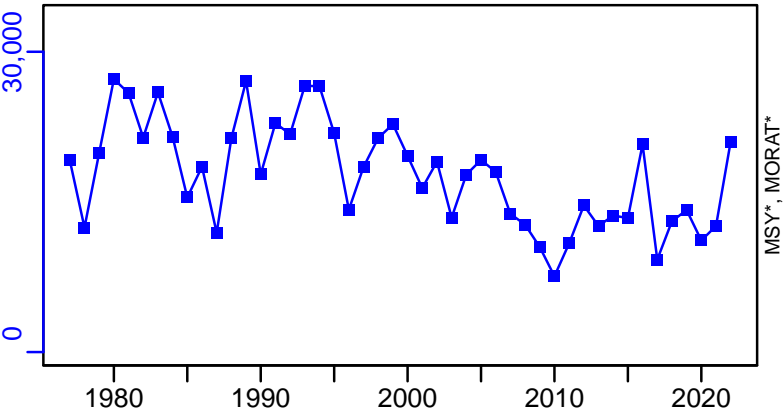
ER-ratio (1977–2022–SISIMP2024)

Recruits*

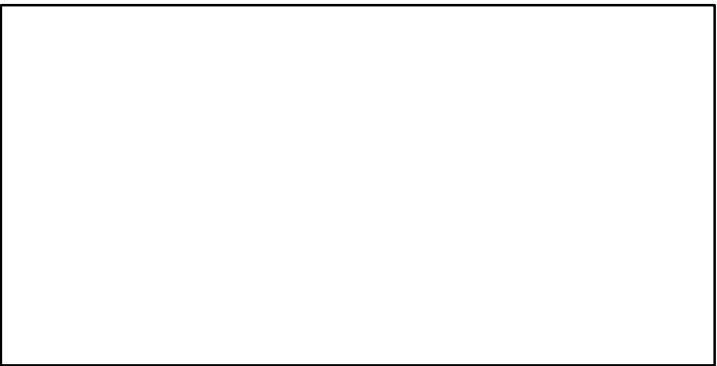


Longfin inshore squid Atlantic Coast [LISQUIDATLC]

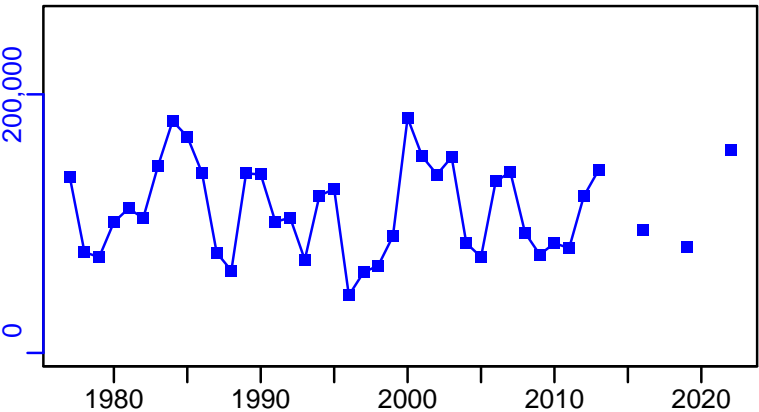
TC-MT, TL*, RecC* (1977-2022-SISIMP2024)



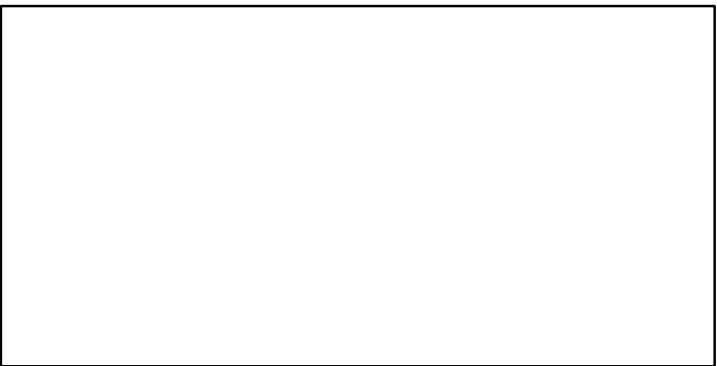
TAC*, Cpair*, Cadv*



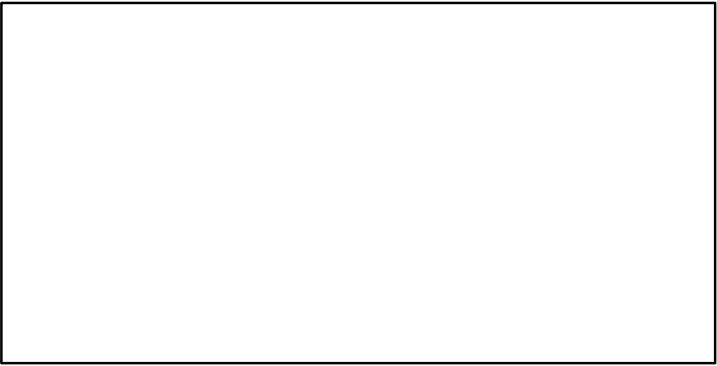
survB-MT (1977-2022-SISIMP2024)



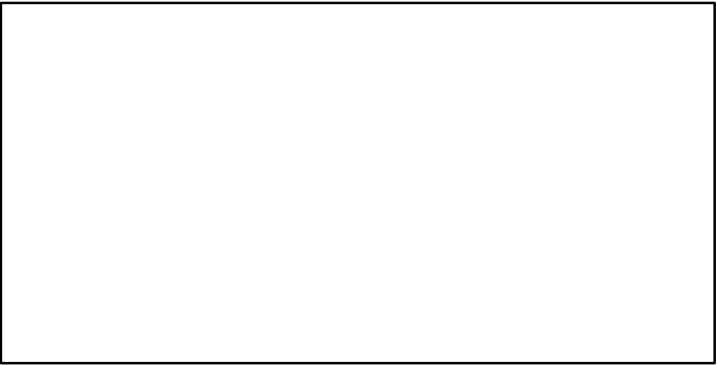
CPUE*



EFFORT*



CdivMSY*



Octopus Central West Africa Guinea Bissau [OCTOCWAGNB]

Metadata	
Scientific Name	Octopus vulgaris
Current Assess ID	FAO-DR-OCTOCWAGNB-1990-2007-CHING
Area	Central West Africa Guinea Bissau
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2007

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*

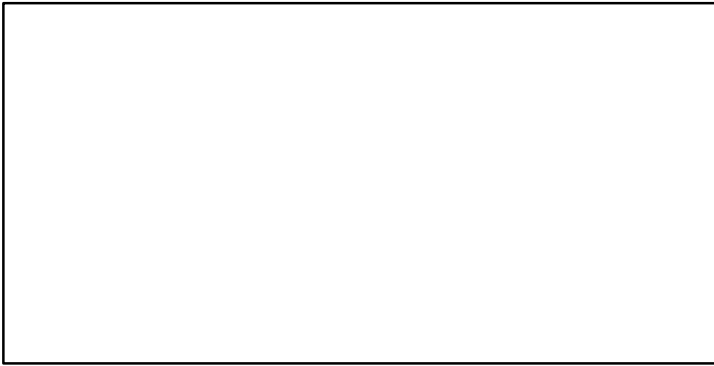


Production*

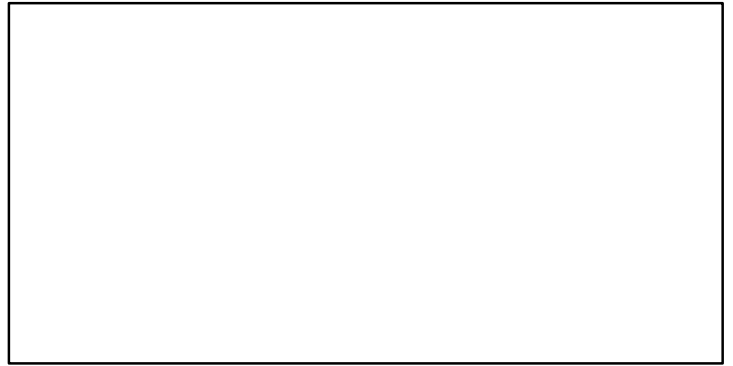


◆ Start Year ◆ End Year * No Data

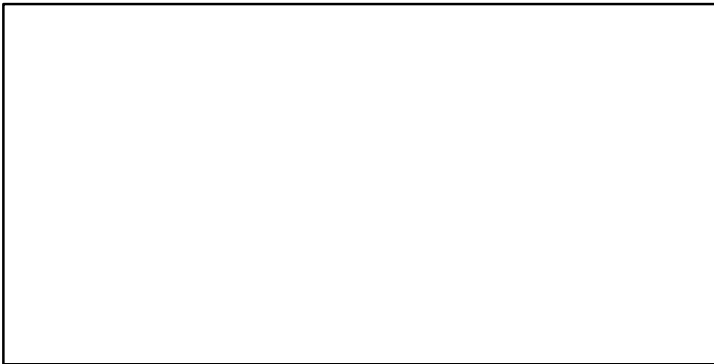
TB*



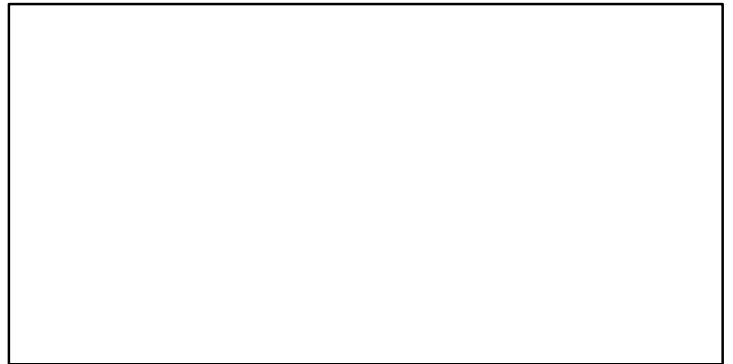
SSB*



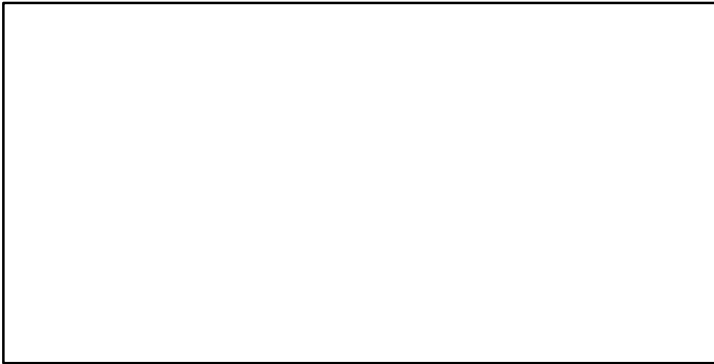
TN *



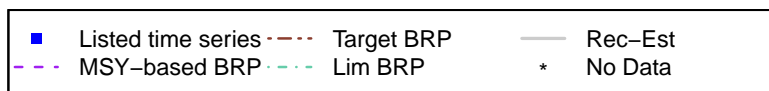
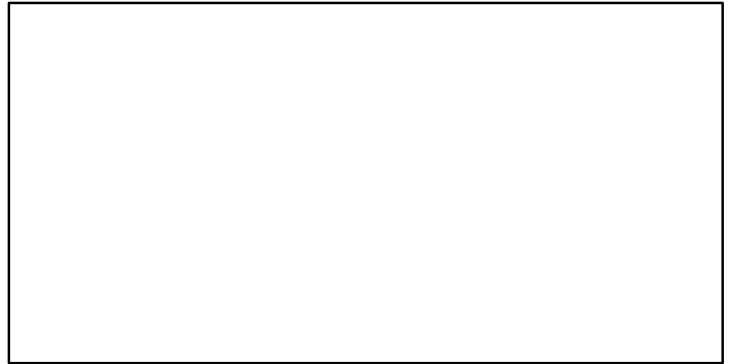
F*



ER*



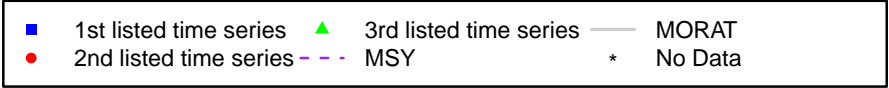
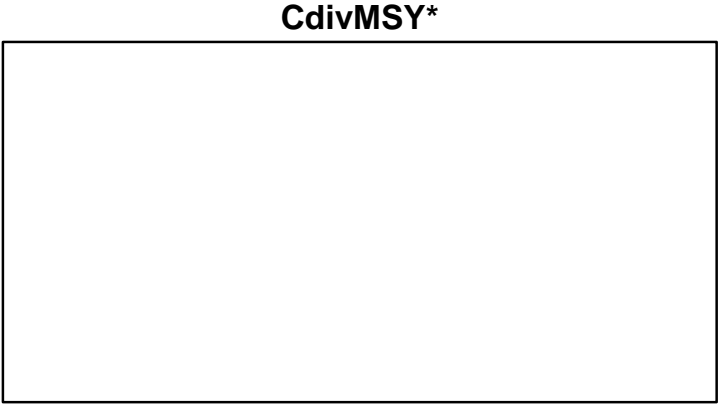
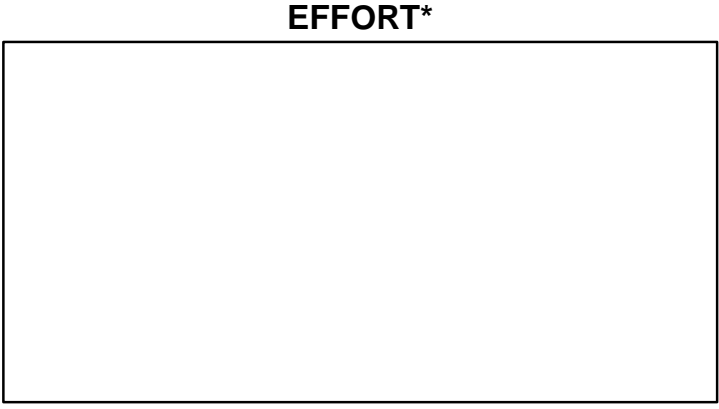
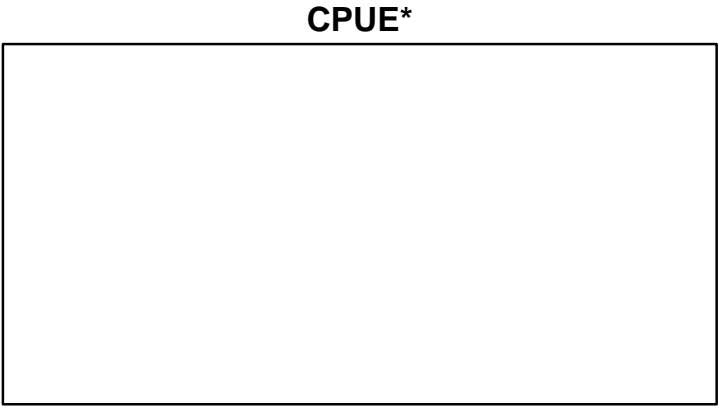
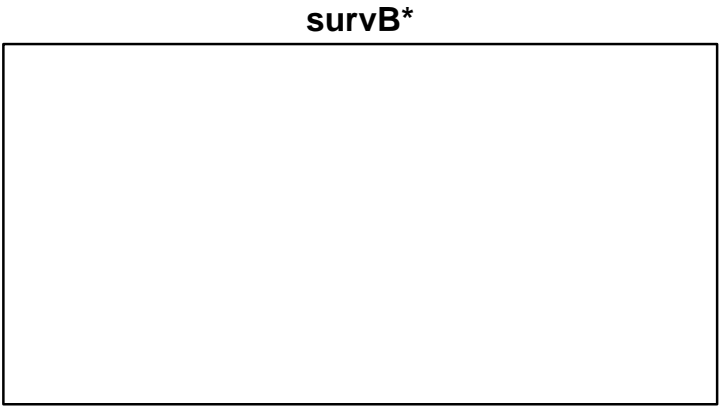
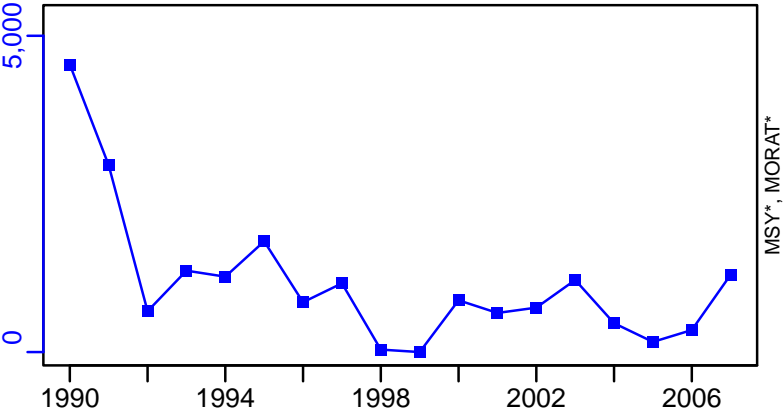
Recruits*



Octopus Central West Africa Guinea Bissau [OCTOCWAGNB]

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

TAC*, Cpair*, Cadv*



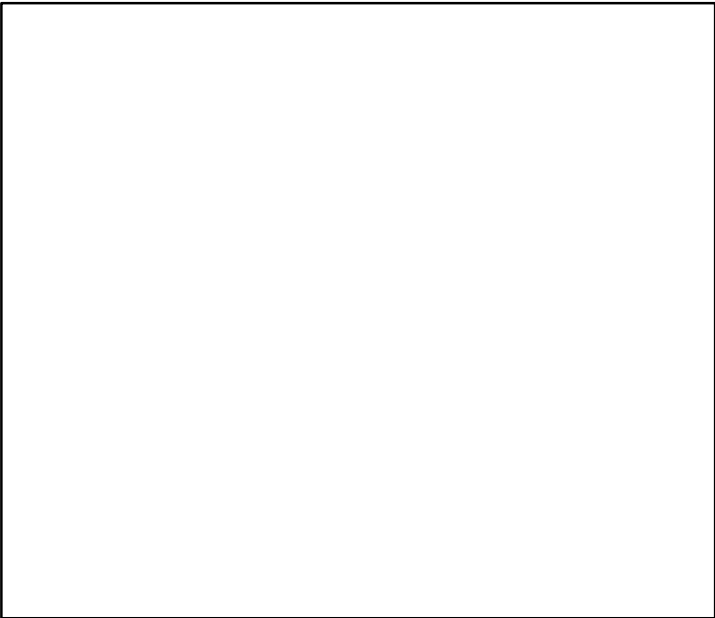
Octopus North West Africa Cape Blanc [OCTONWACBL]

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	34,142		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

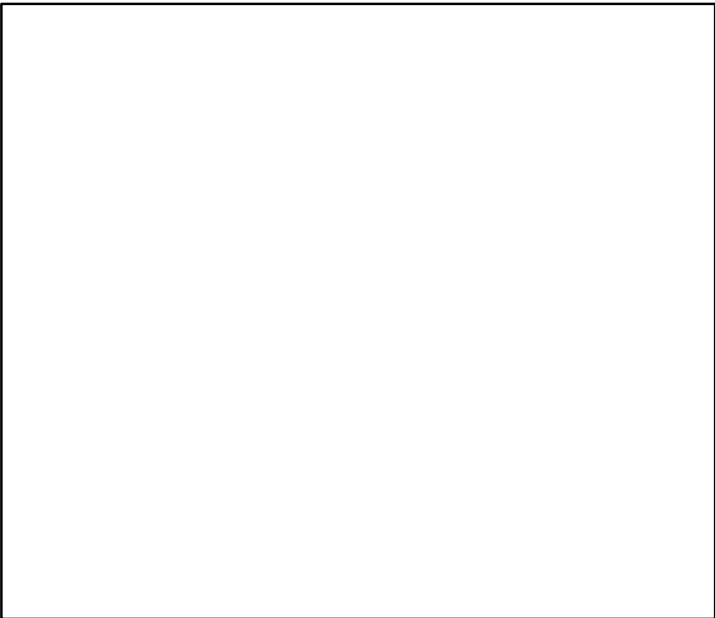
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

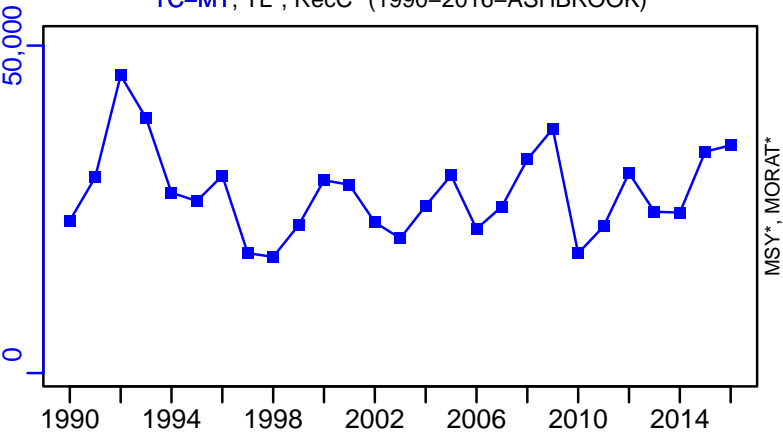


Recruits*



Octopus North West Africa Cape Blanc [OCTONWACBL]

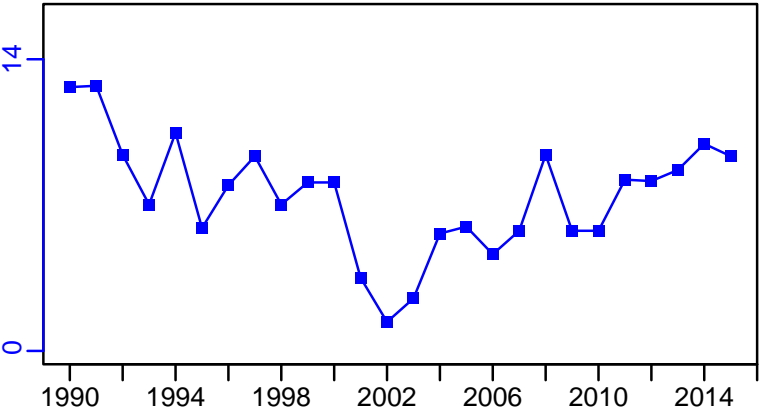
TC-MT, TL*, RecC* (1990-2016-ASHBROOK)



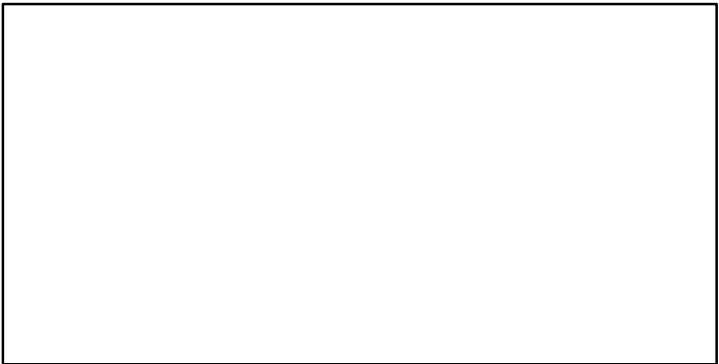
TAC*, Cpair*, Cadv*



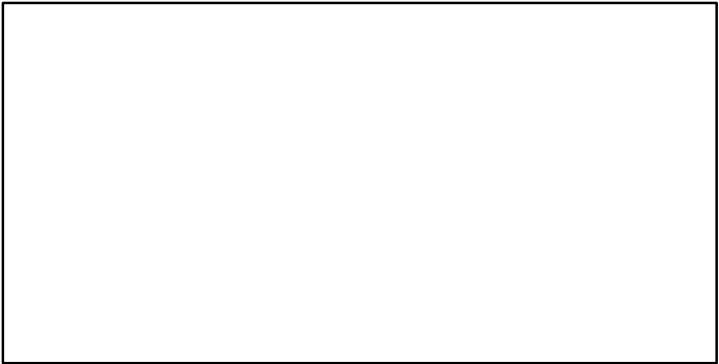
survB_index-index (1990-2016-ASHBROOK)



CPUE*



CdivMSY*



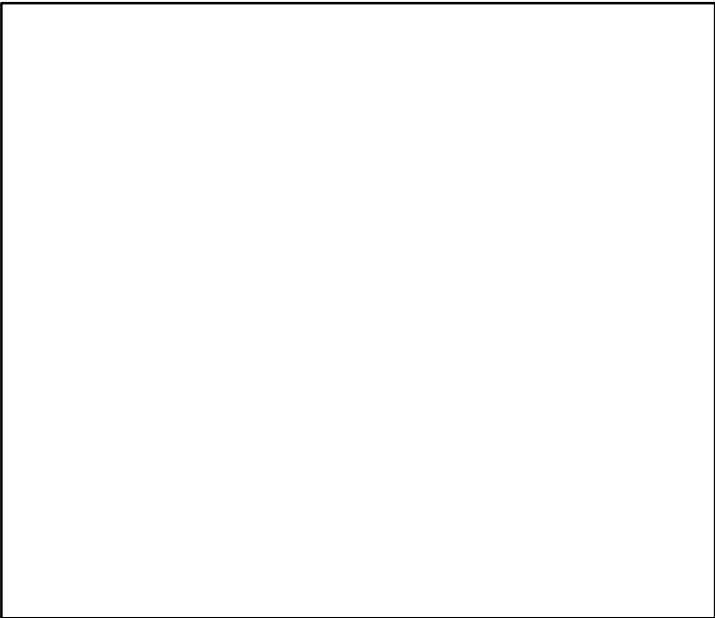
Octopus North West Africa Dakhla [OCTONWADAK]

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	37,918		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

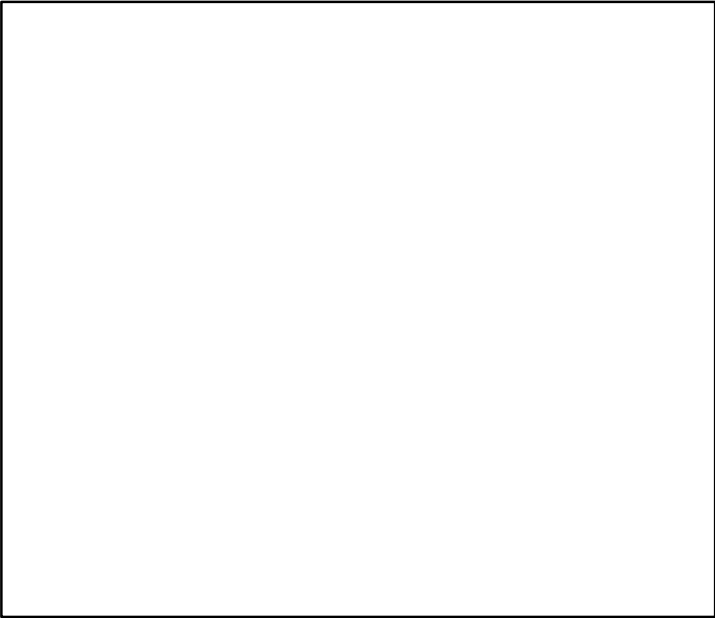
Kobe MSY*



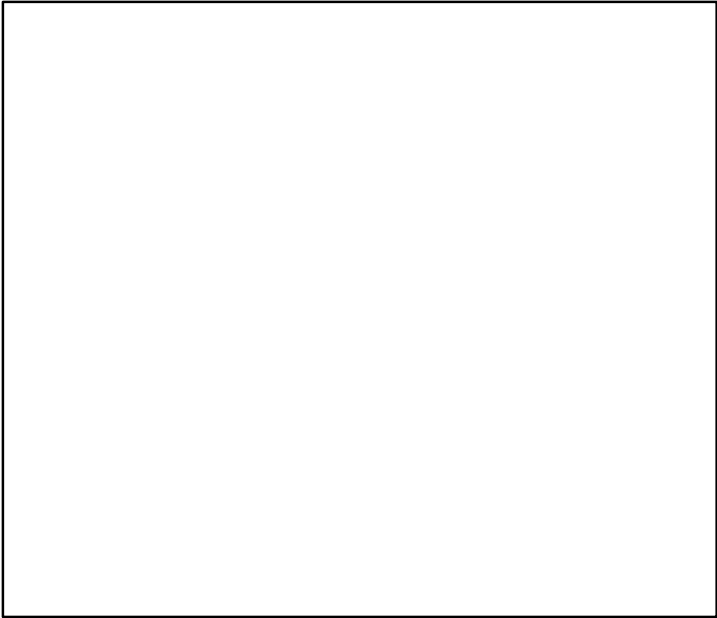
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

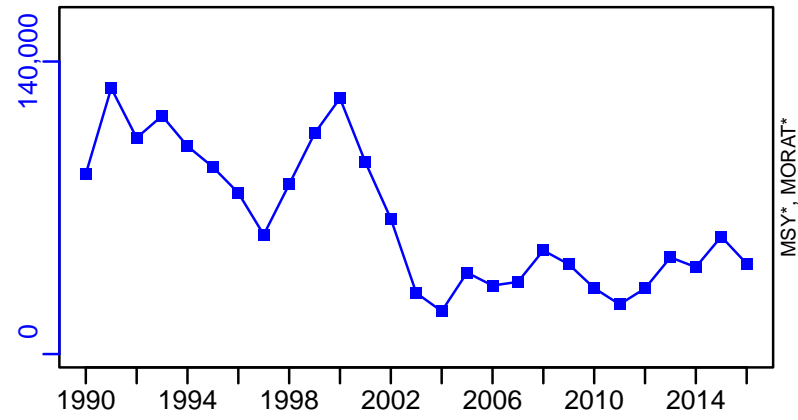


Recruits*



Octopus North West Africa Dakhla [OCTONWADAK]

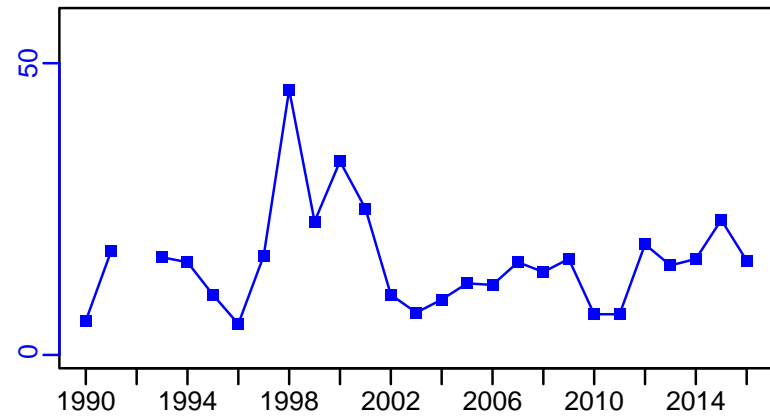
TC-MT, TL*, RecC* (1990-2016-ASHBROOK)



TAC*, Cpair*, Cadv*



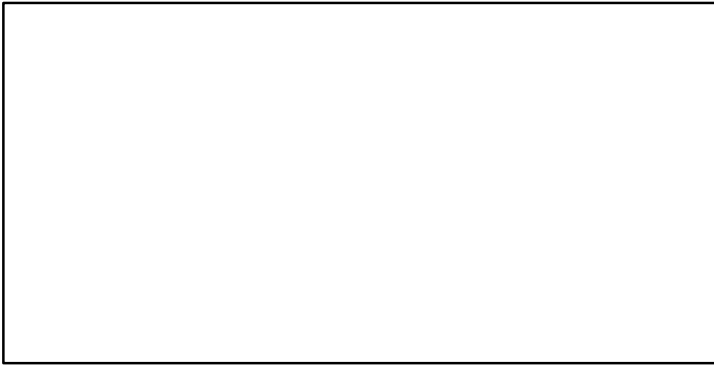
survB_index-index (1990-2016-ASHBROOK)



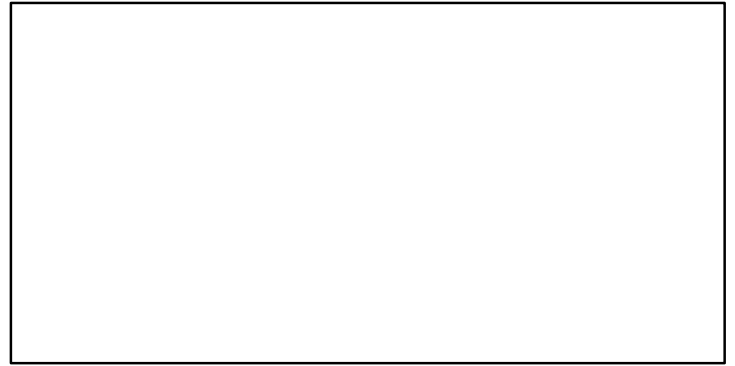
CPUE*



EFFORT*



CdivMSY*



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

Octopus North West Africa Senegal_The Gambia [OCTONWASEN_GMB]

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

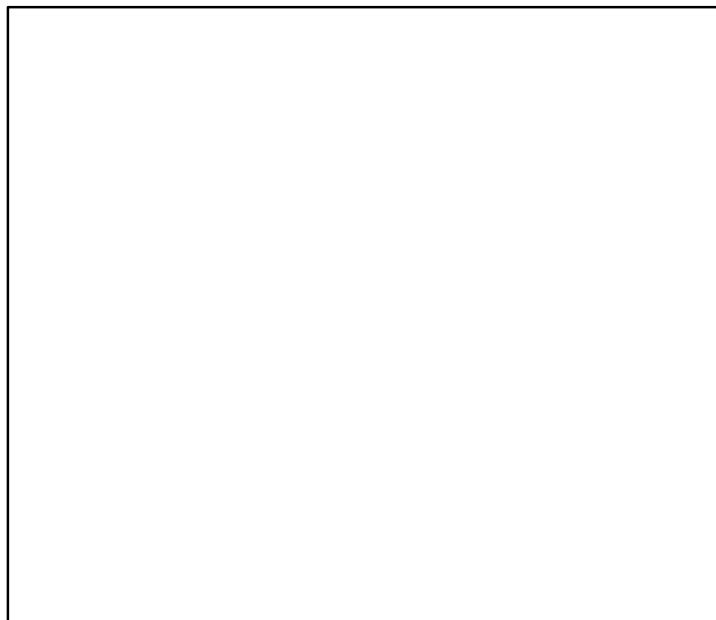
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	4466		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

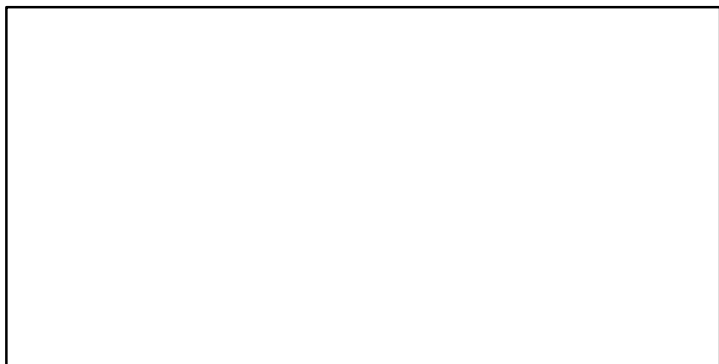


Production*

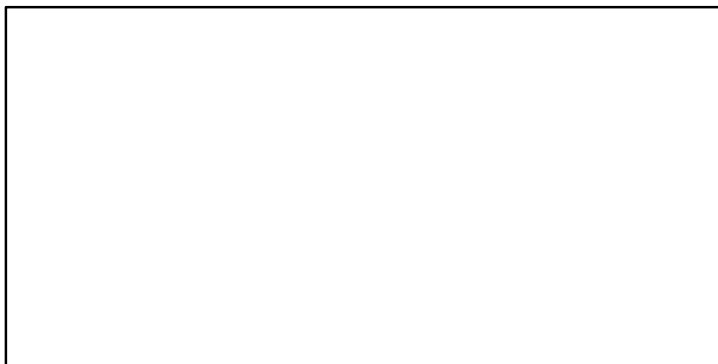


◆ Start Year ◆ End Year * No Data

TB*



SSB*



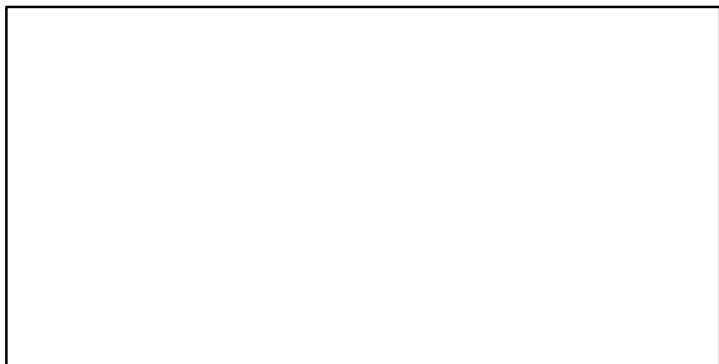
TN *



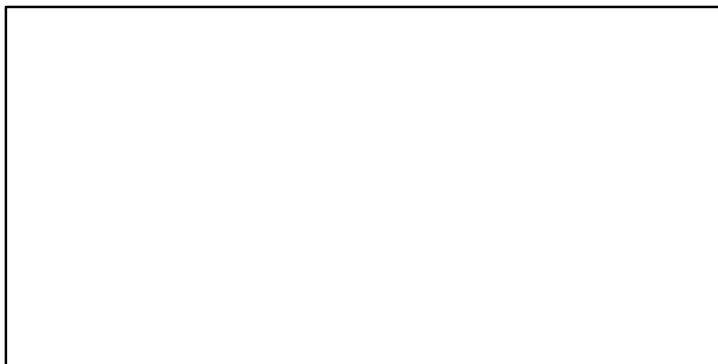
F*



ER*



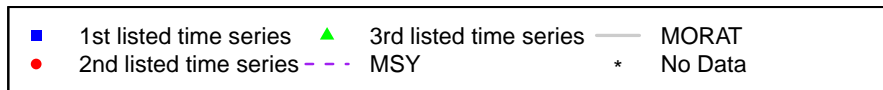
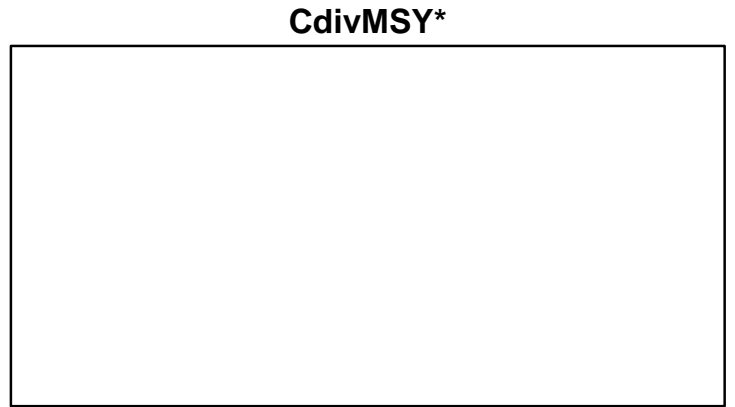
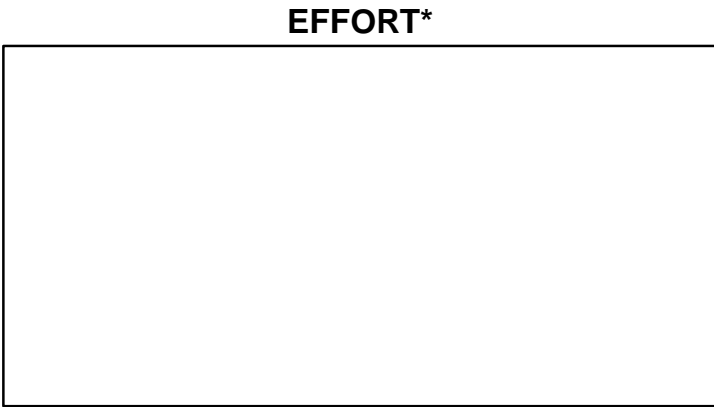
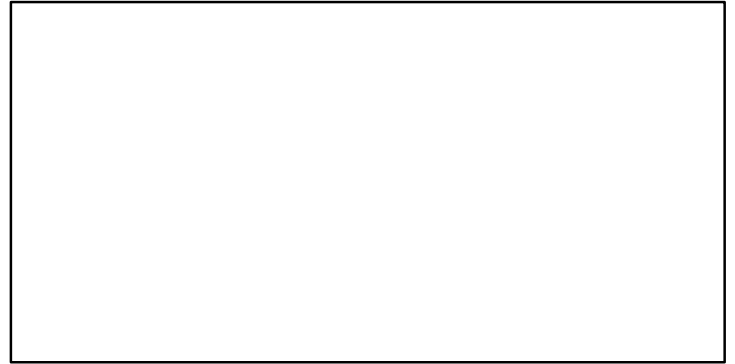
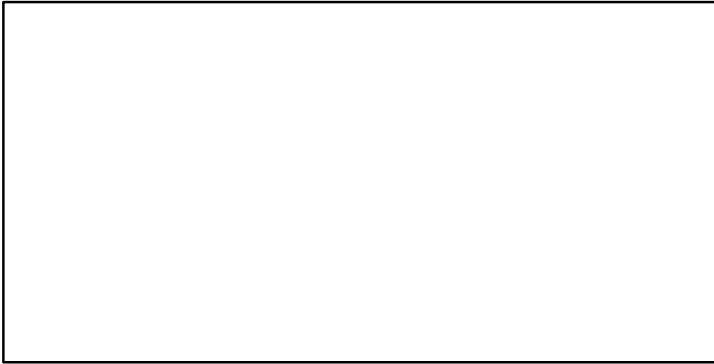
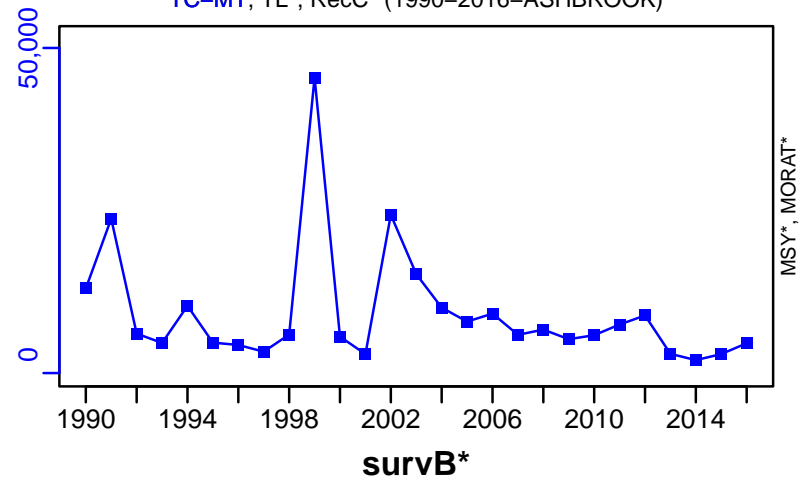
Recruits*



Octopus North West Africa Senegal_The Gambia [OCTONWASEN_GMB]

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

TAC*, Cpair*, Cadv*



Spear squid Pacific Ocean [SPSQUIDPAC]

Metadata	
Scientific Name	Loligo bleekeri
Current Assess ID	FAFRFJ-SPSQUIDPAC-1978-2013-JPNIMP2016
Area	Pacific Ocean
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	4250		
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

Spear squid Pacific Ocean [SPSQUIDPAC]

TB*



SSB*



TN *



F*



ER*



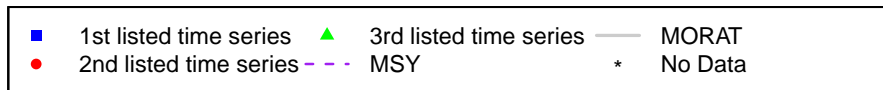
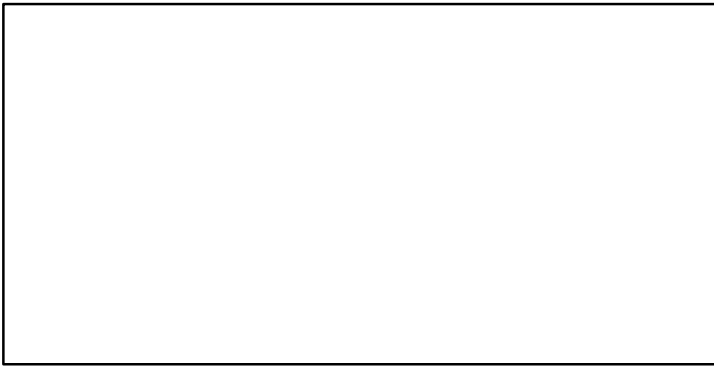
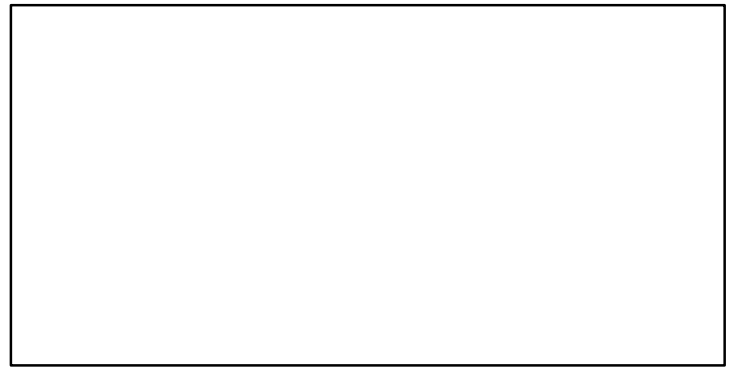
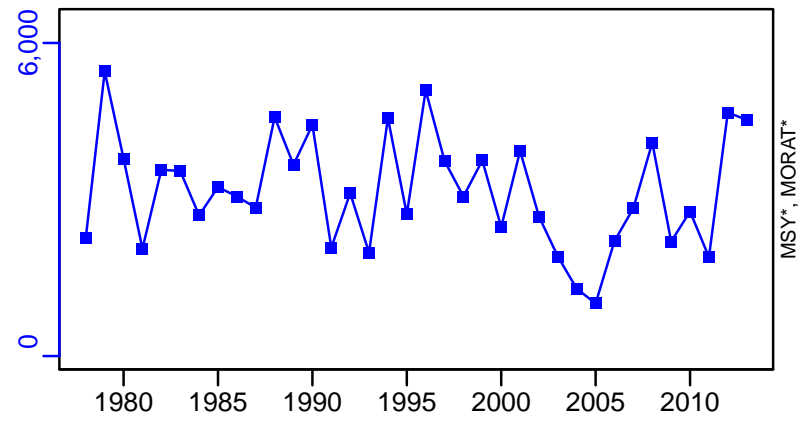
Recruits*



Spear squid Pacific Ocean [SPSQUIDPAC]

TC-MT, TL*, RecC* (1978-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



Spear squid Tsushima warm current [SPSQUIDTSSTWC]

Metadata	
Scientific Name	Loligo bleekeri
Current Assess ID	FAFRFJ-SPSQUIDTSSTWC-1990-2013-JPNIMP2016
Area	Tsushima warm current
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

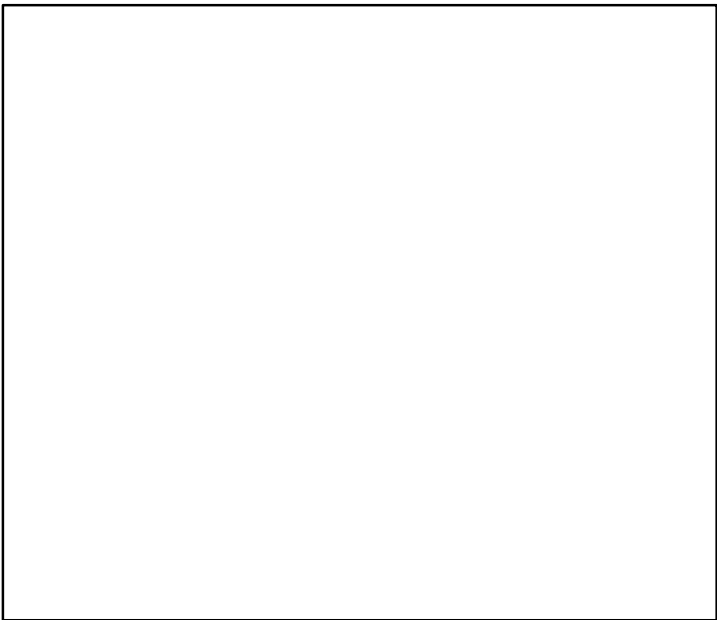
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2700		
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

Spear squid Tsushima warm current [SPSQUIDTSSTWC]

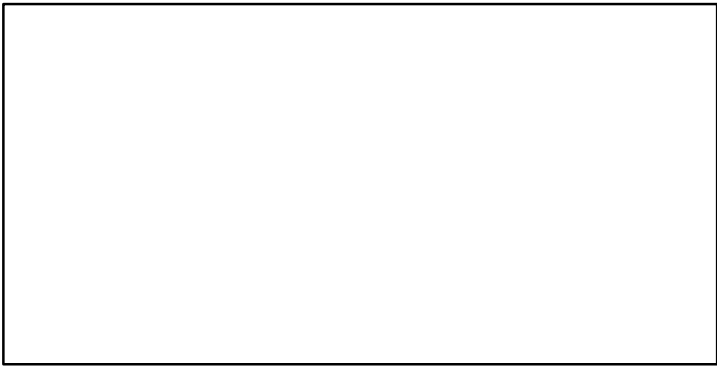
TB*



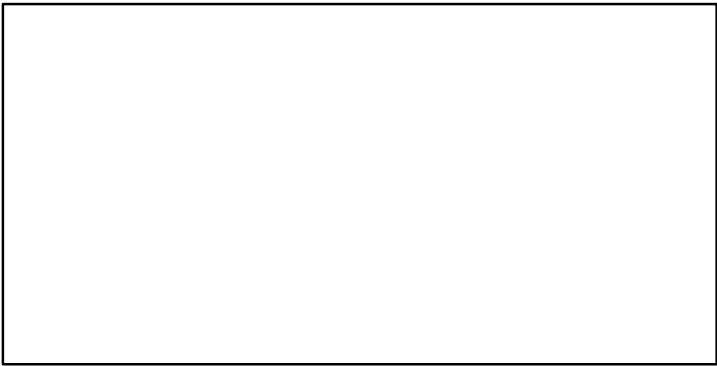
SSB*



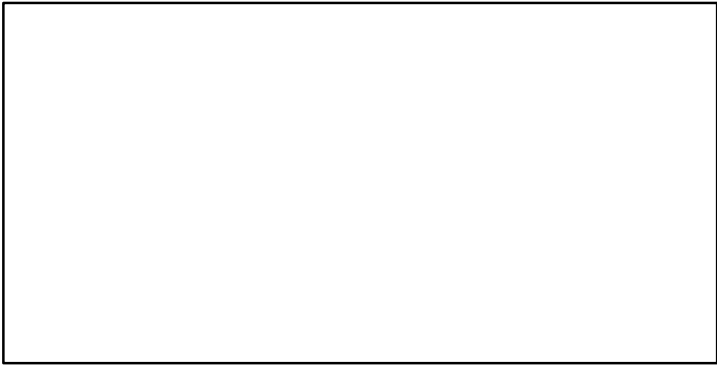
TN *



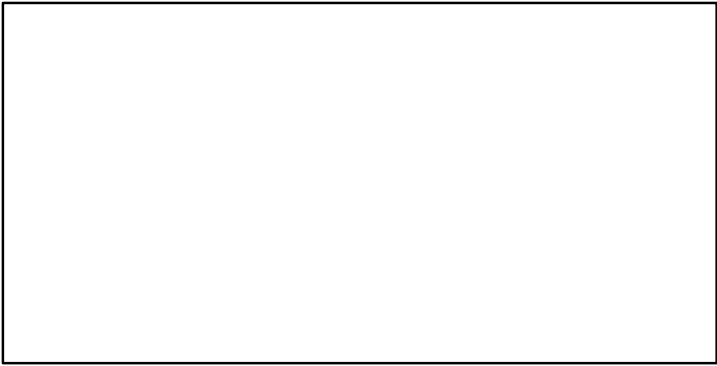
F*



ER*



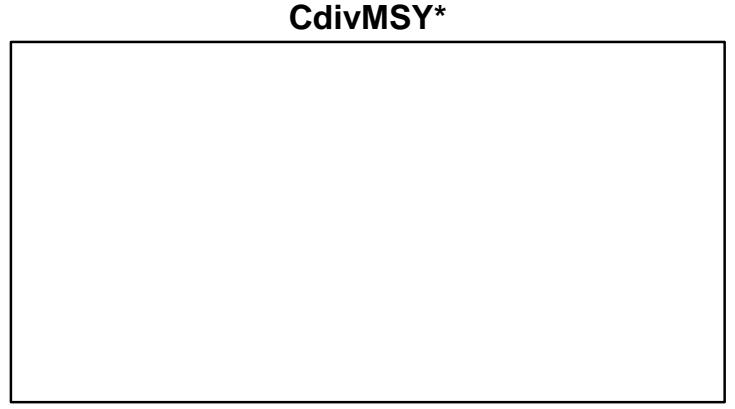
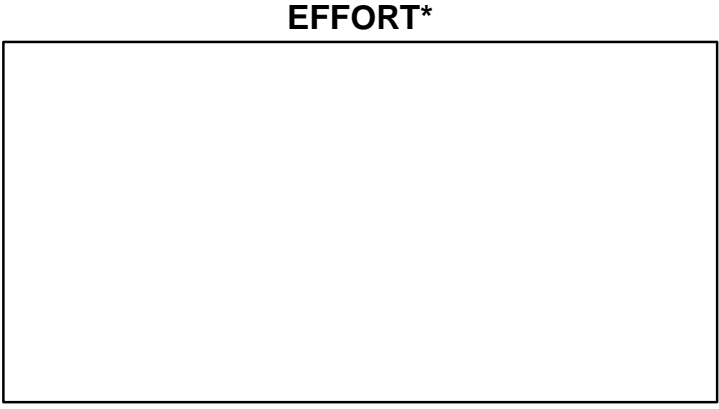
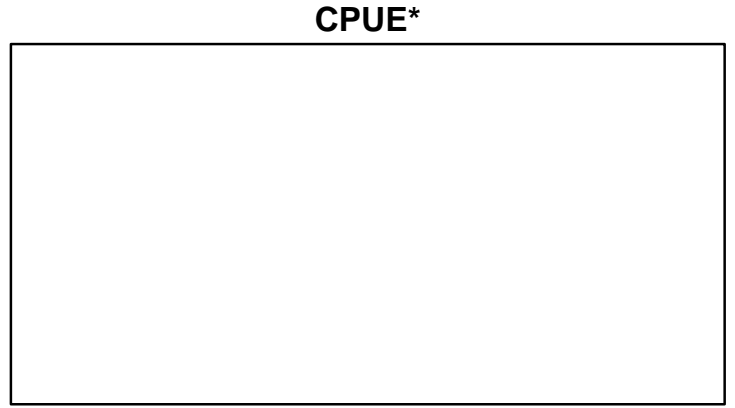
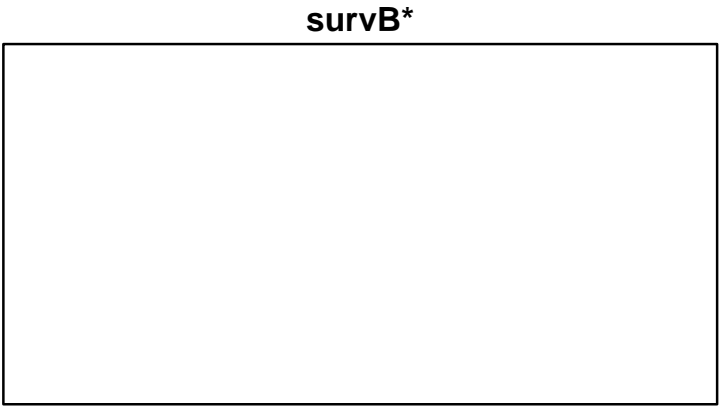
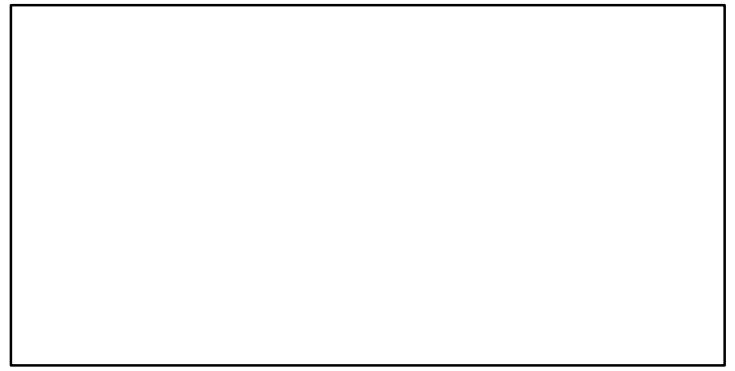
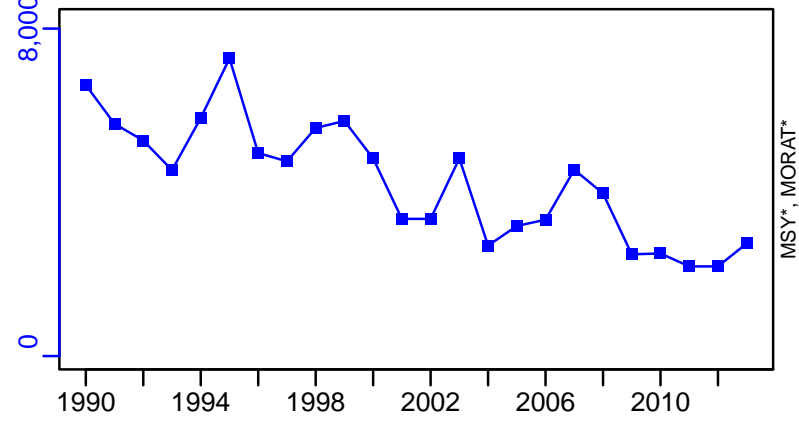
Recruits*



Spear squid Tsushima warm current [SPSQUIDTSSTWC]

TC-MT, TL*, RecC* (1990–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



Swordtip squid Sea of Japan and East China Sea [STSQUIDSOJECS]

Metadata	
Scientific Name	Uroteuthis edulis
Current Assess ID	FAFRFJ-STSQUIDSOJECS-1988-2013-JPNIMP2016
Area	Sea of Japan and East China Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	9220		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



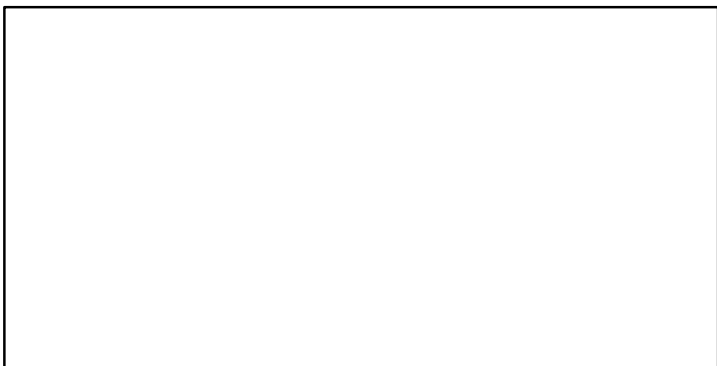
Production*



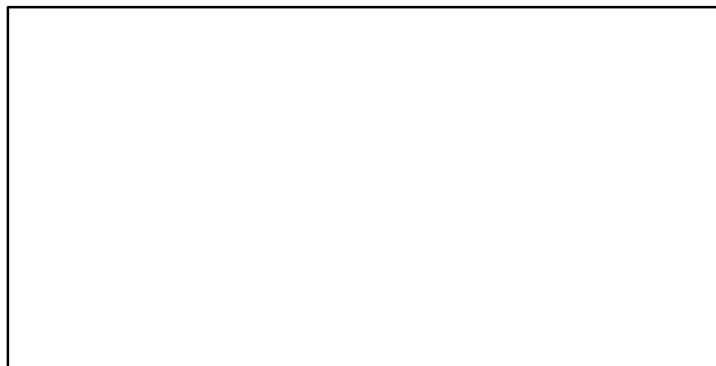
◆ Start Year ◆ End Year * No Data

Swordtip squid Sea of Japan and East China Sea [STSQUIDSOJECS]

TB*



SSB*



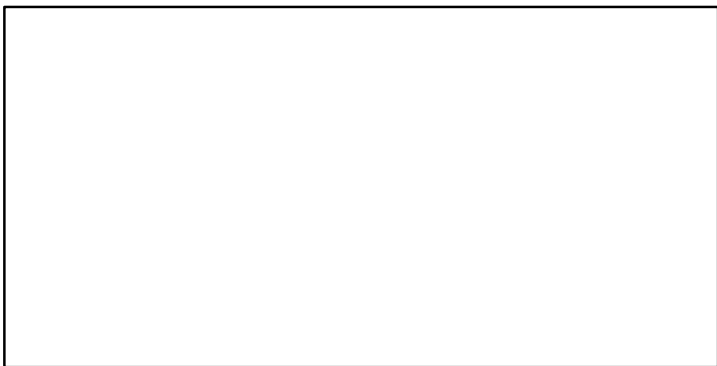
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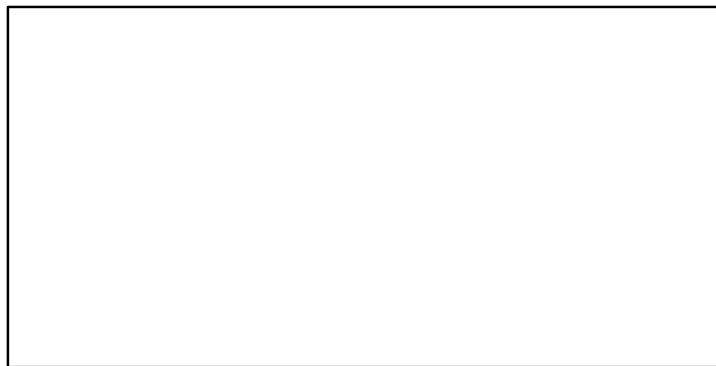
F*



ER*



Recruits*



Swordtip squid Sea of Japan and East China Sea [STSQUIDSOJECS]

TC-MT, TL*, RecC* (1988–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*

