

cephalopods Stocks

v4.44 (Apr-02-2019)

Not present Present Preferred

Stock	Time Series Types			
	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
1. CHSQUIDSA [Cape Hope squid South Africa]	TB SSB	ER F	TB SSB	ER F
2. CUTTLEWA [Cuttlefish West Africa]	TB SSB	ER F	TB SSB	ER F
3. GPOCTOBSAI [Giant Pacific octopus Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
4. GPOCTOGA [Giant Pacific octopus Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
5. ILLEXNWATLC [Northern shortfin squid Northwestern Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
6. JCSQUIDJPNAR [Japanese flying squid Japan Autumn recruitment]	TB SSB	ER F	TB SSB	ER F
7. JCSQUIDJPNWR [Japanese flying squid Japan Winter recruitment]	TB SSB	ER F	TB SSB	ER F
8. LISQUIDATLC [Longfin inshore squid Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
9. OCTOWA [Octopus West Africa]	TB SSB	ER F	TB SSB	ER F
10. SPSQUIDPAC [Spear squid Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
11. SPSQUIDTSSTWC [Spear squid Tsushima warm current]	TB SSB	ER F	TB SSB	ER F
12. STSQUIDSOJECS [Swordtip squid Sea of Japan and East China Sea]	TB SSB	ER F	TB SSB	ER F

Cape Hope squid South Africa [CHSQUIDSA]

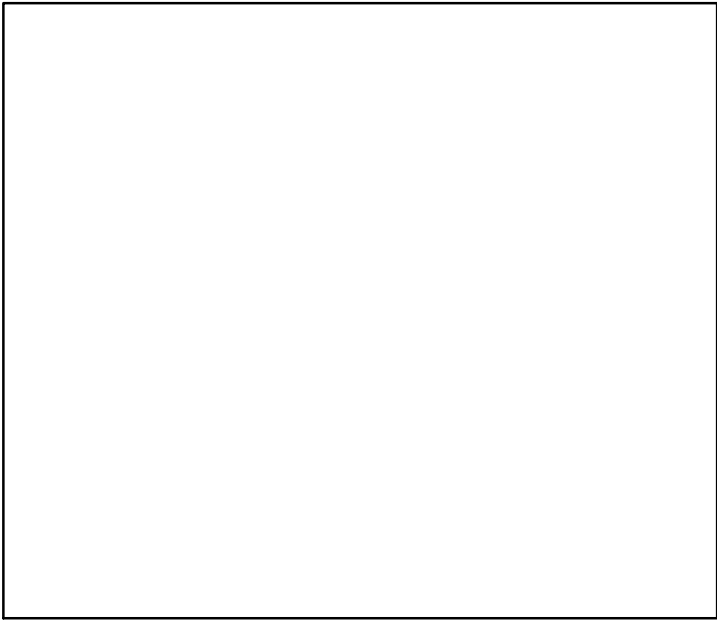
Metadata	
Scientific Name	Loligo reynaudii
Current Assess ID	FBDAFF-CHSQUIDSA-1971-2013-GLAZER
Area	South Africa
Management Authority	South African national management, Fisheries Branch of Department of Agriculture, Forestry and Fisheries
Assessor	Fisheries Branch of Department of Agriculture, Forestry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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-pr-MT	2013	25,703
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2013	64,258
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	18,700	-	-
SSB	SSB-MT	2013	18,700	Both	1
TN	-	-	-	-	-
R	R-MT	2013	17,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2013	0.369	-	-
TC	TC-MT	2013	6690		
TL	TL-MT	2013	6690		
TB/TBmsy	TB-MT/TBmsy-pr-MT	2013	0.728		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Cape Hope squid South Africa [CHSQUIDSA]

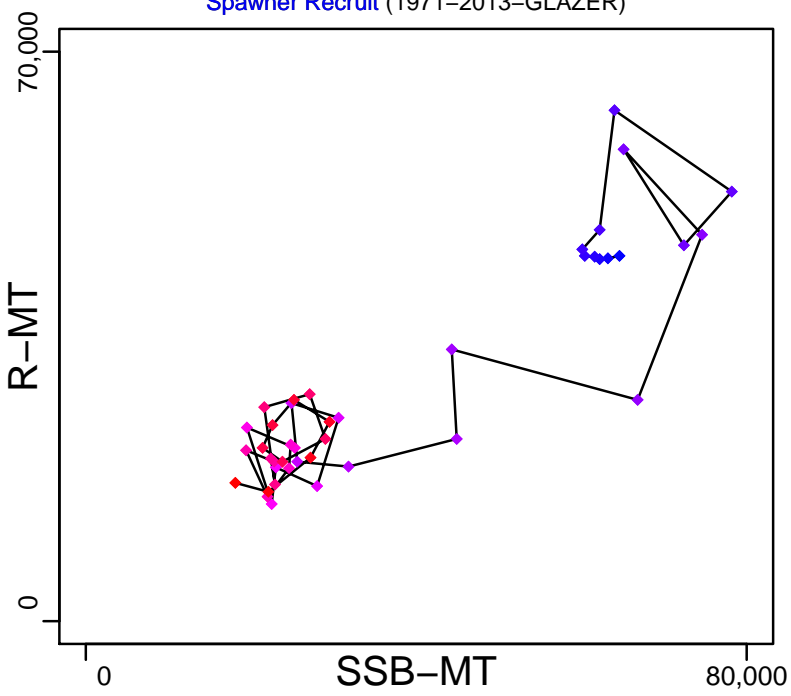
Kobe MSY*



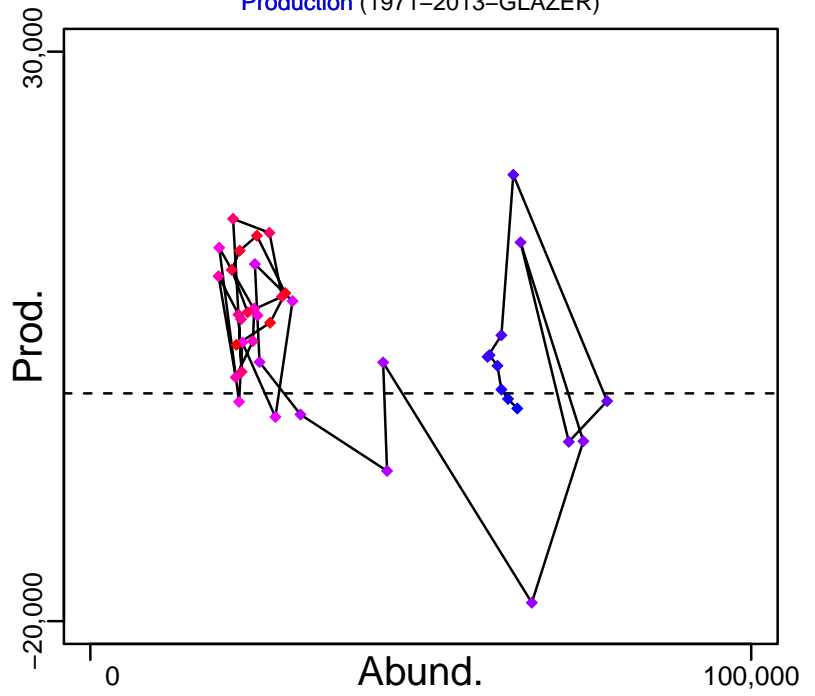
Kobe MGT*



Spawner Recruit (1971-2013-GLAZER)



Production (1971-2013-GLAZER)

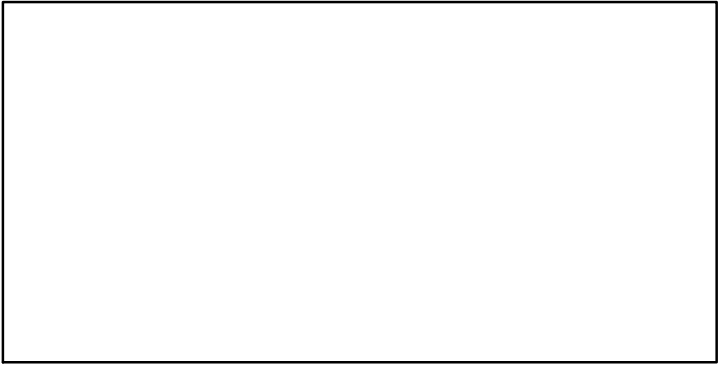
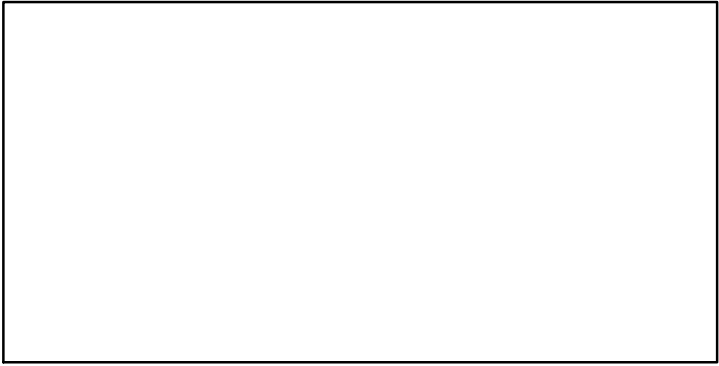
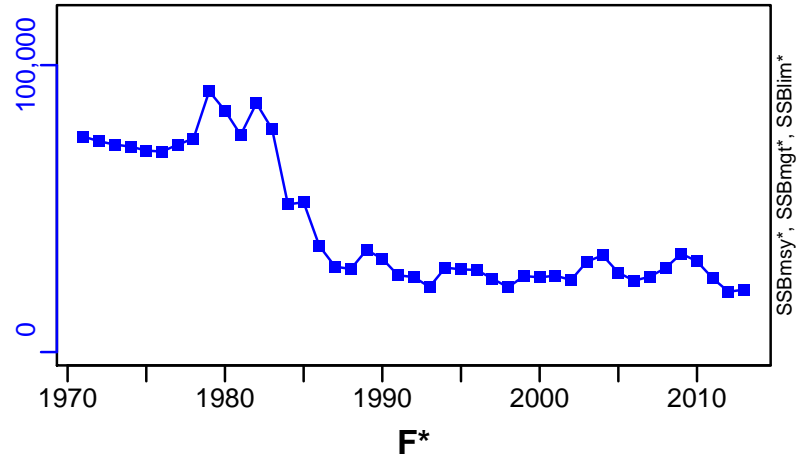
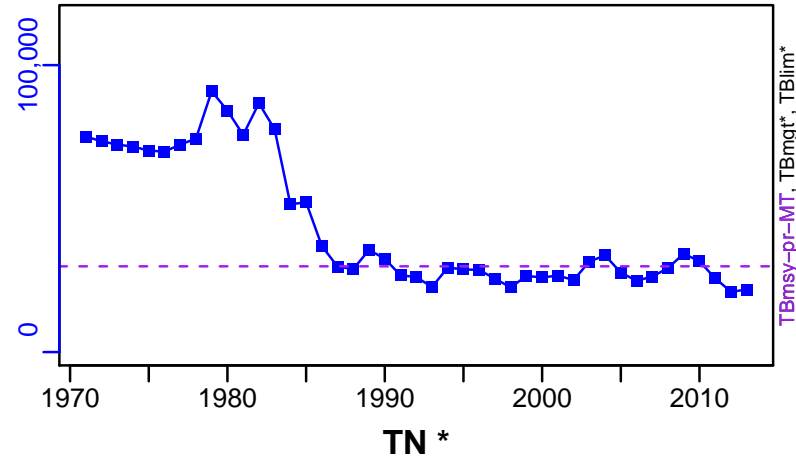


◆ Start Year ◆ End Year * No Data

Cape Hope squid South Africa [CHSQUIDSA]

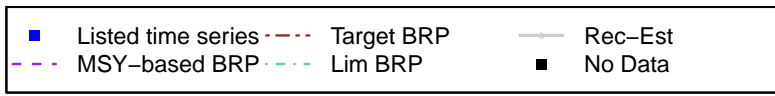
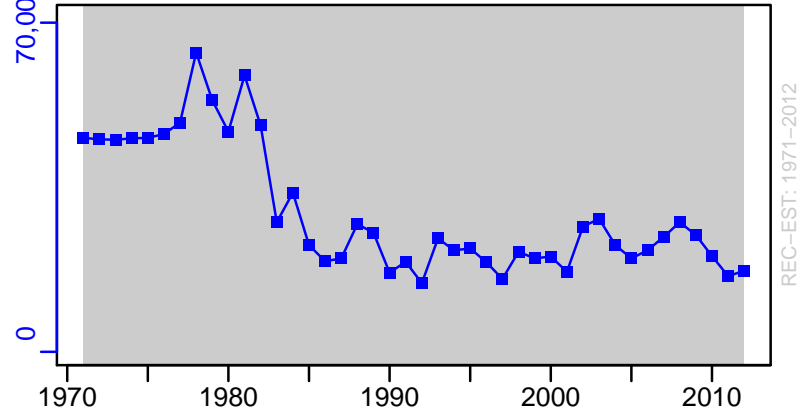
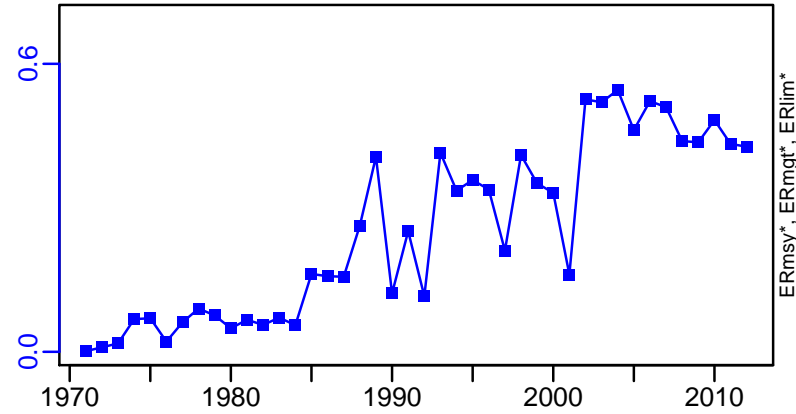
TB-MT (1971-2013-GLAZER)

SSB-MT (1971-2013-GLAZER)



ER-ratio (1971-2013-GLAZER)

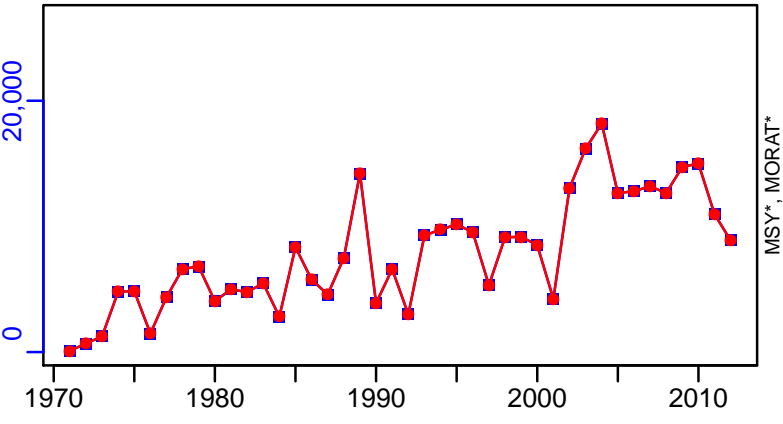
R-MT (1971-2013-GLAZER)



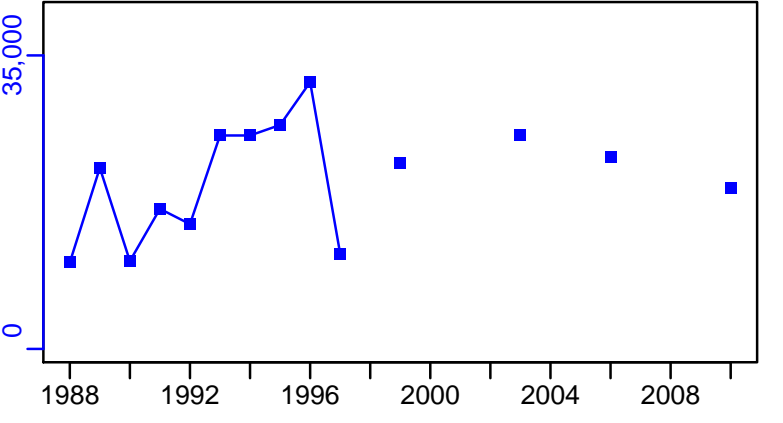
Cape Hope squid South Africa [CHSQUIDSA]

TC-MT, TL-MT, RecC* (1971-2013-GLAZER)

TAC*, Cpair*, Cadv*



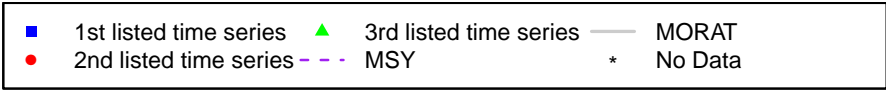
survB-1-MT (1971-2013-GLAZER)



EFFORT*



CdivMSY*



Cuttlefish West Africa [CUTTLEWA]

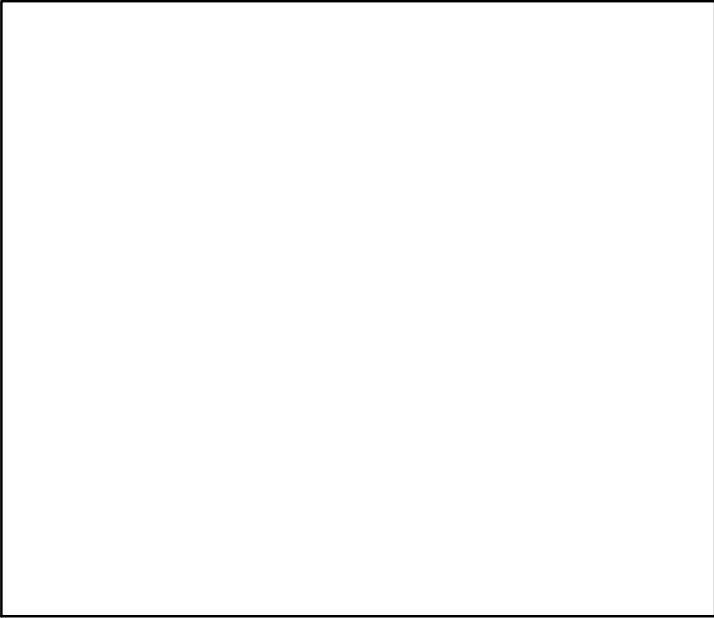
Metadata	
Scientific Name	Sepia spp
Current Assess ID	FAO-DRSS-CUTTLEWA-1990-2007-CHING
Area	West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources - Subgroup South
Asmts in RAM	2007

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

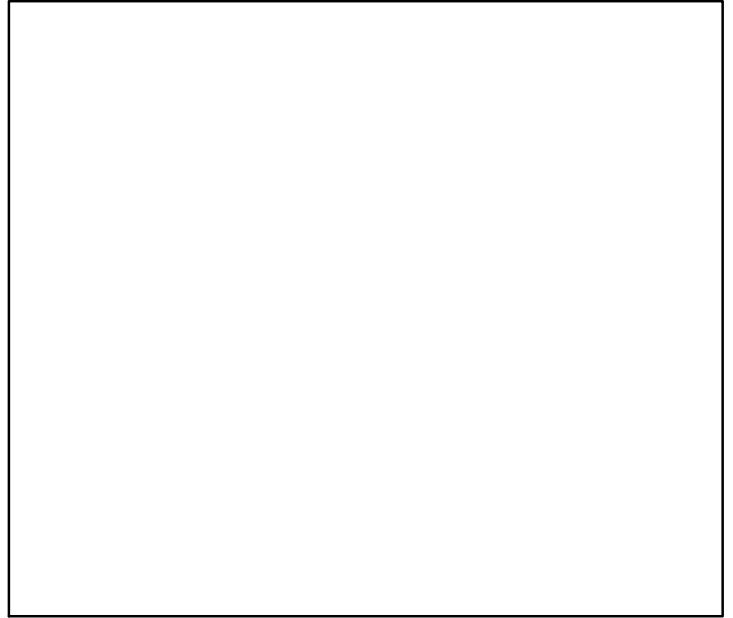
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	242	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	3780		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt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

Cuttlefish West Africa [CUTTLEWA]

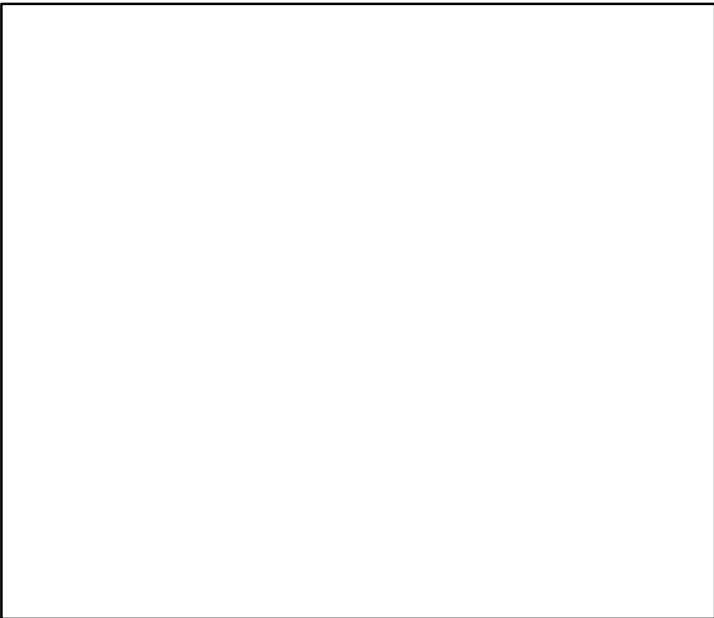
Kobe MSY*



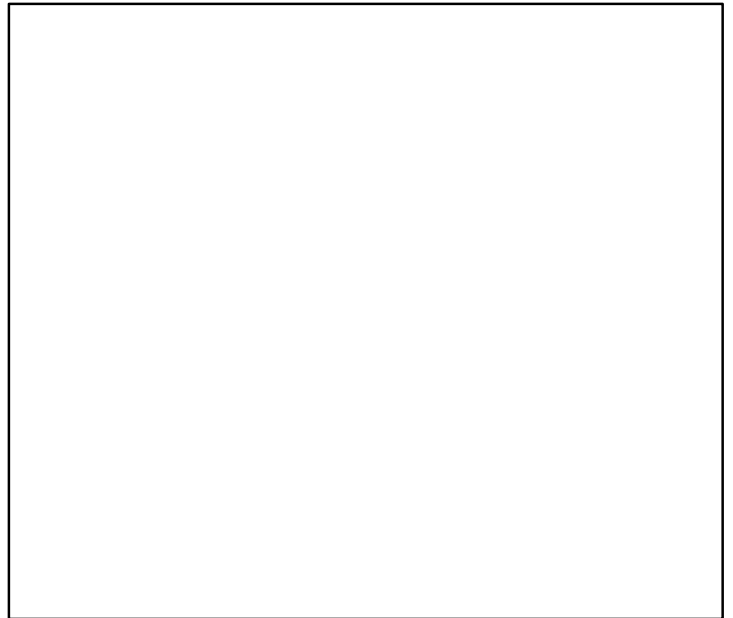
Kobe MGT*



Spawner Recruit*



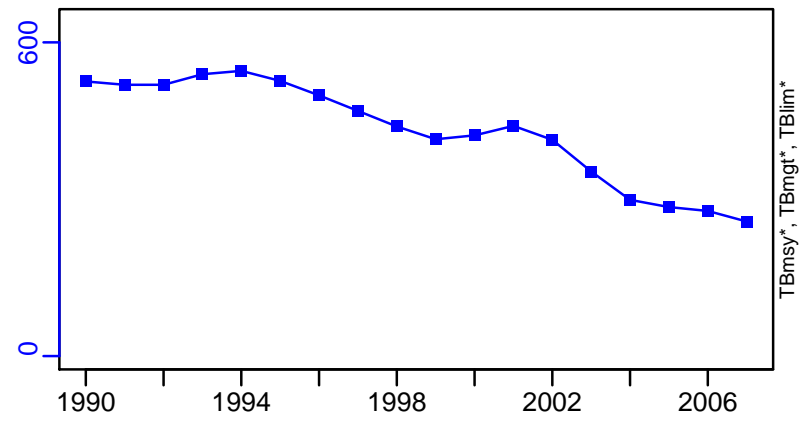
Production*



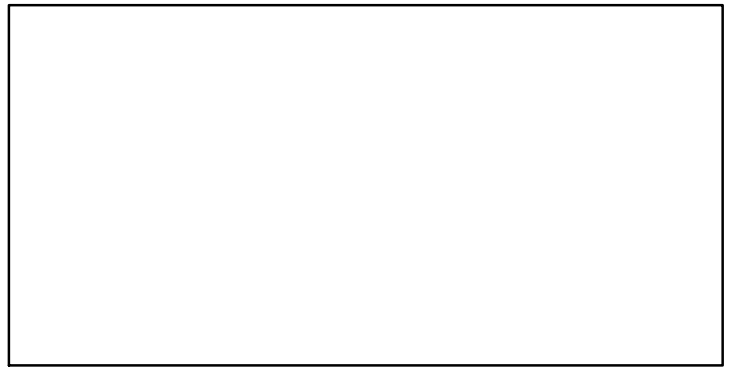
◆ Start Year ◆ End Year * No Data

Cuttlefish West Africa [CUTTLEWA]

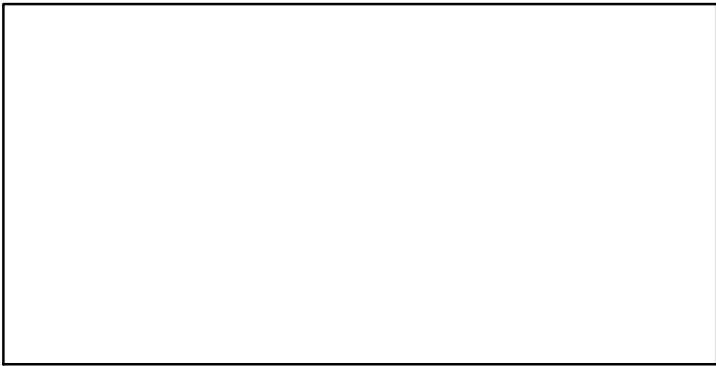
TB-index (1990-2007-CHING)



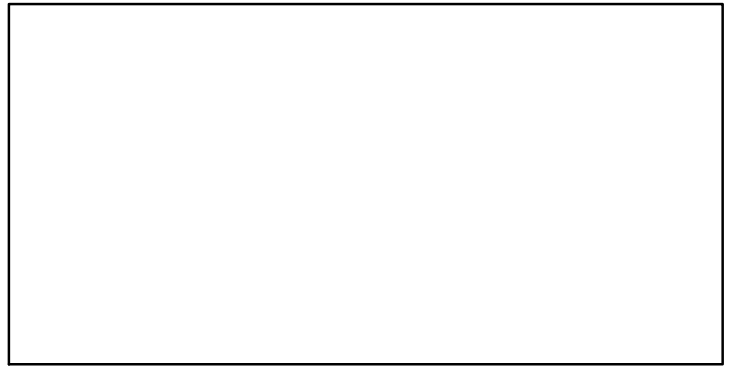
SSB*



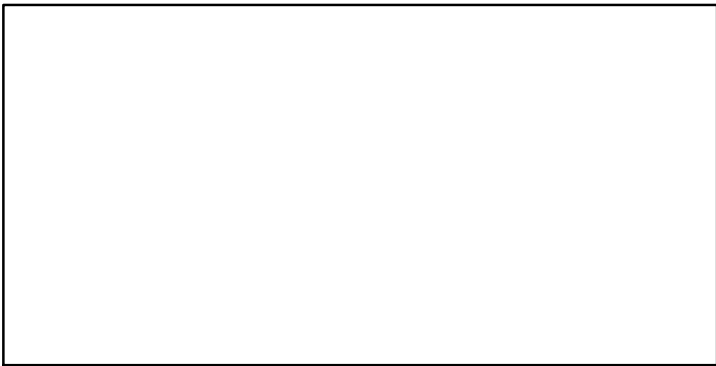
TN *



F*



ER*



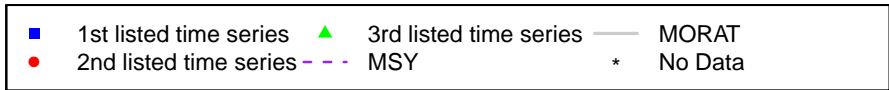
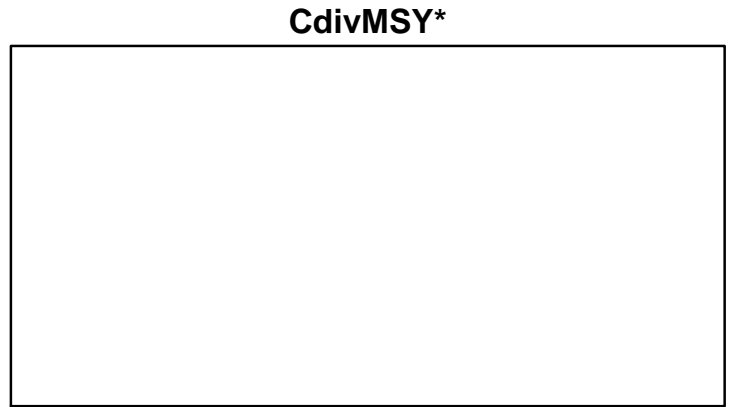
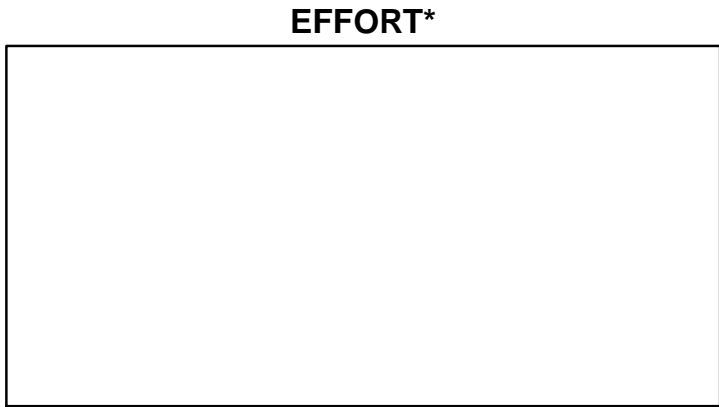
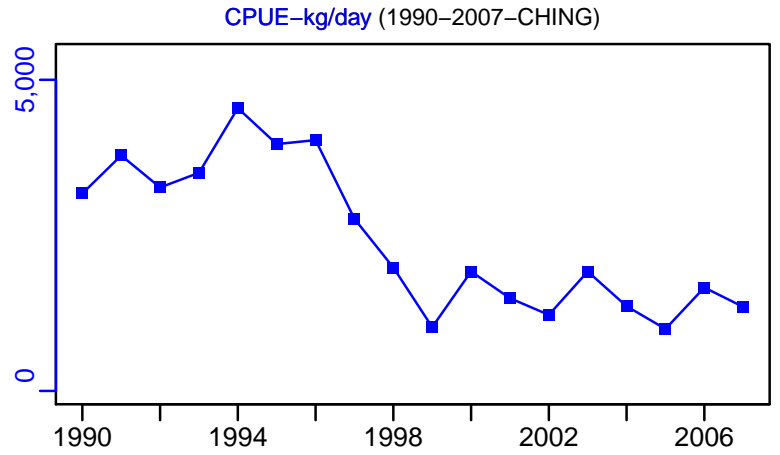
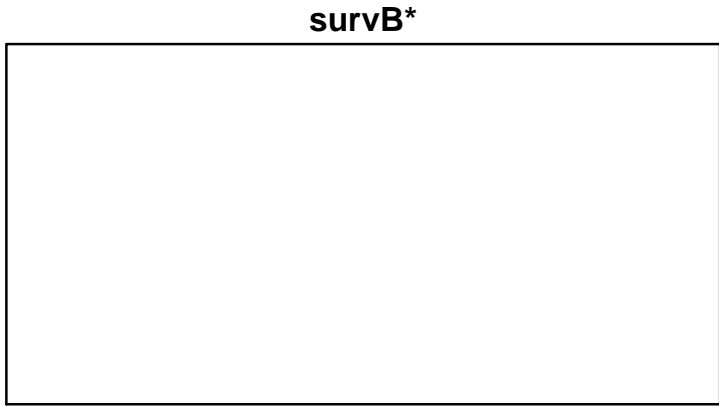
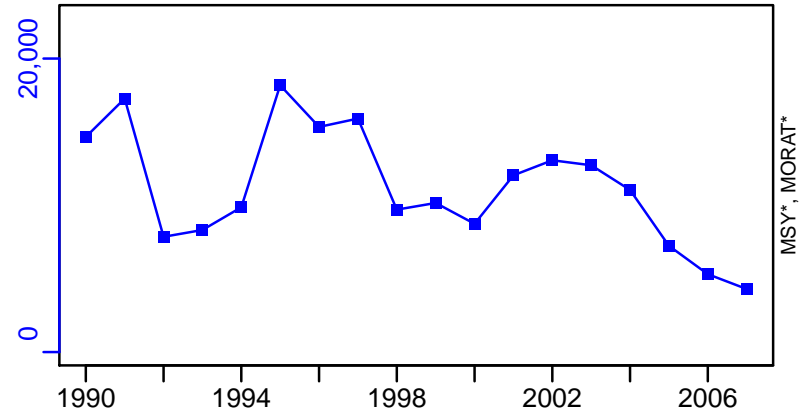
Recruits*



Cuttlefish West Africa [CUTTLEWA]

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

TAC*, Cpair*, Cadv*



Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

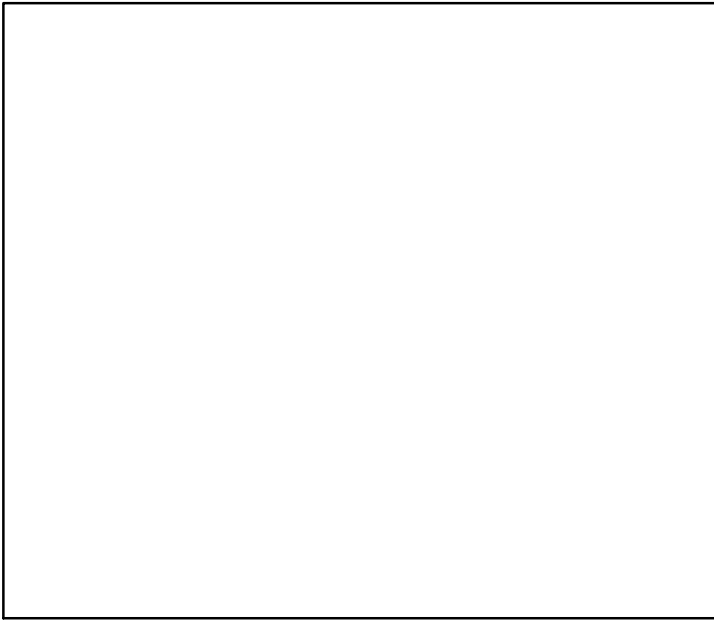
Metadata	
Scientific Name	Enteroctopus dofleini
Current Assess ID	AFSC-GPOCTOBSAI-1997-2014-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	422		
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]

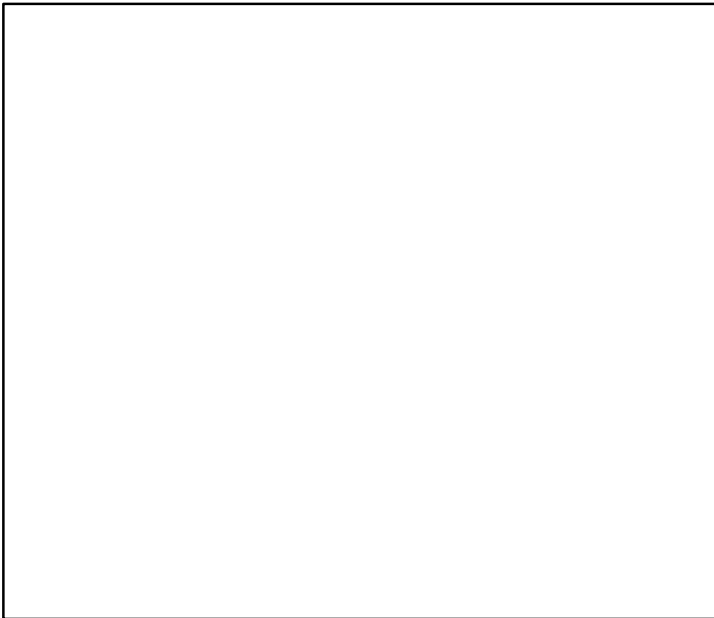
Kobe MSY*



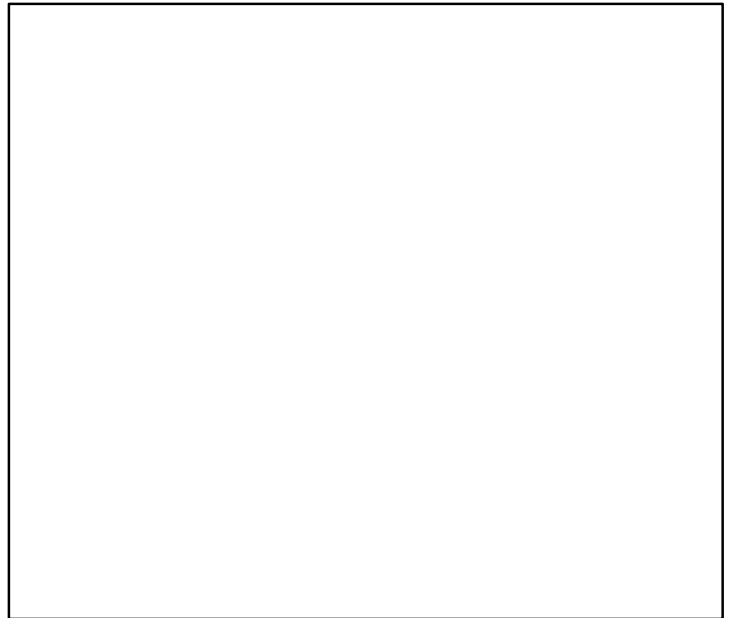
Kobe MGT*



Spawner Recruit*



Production*



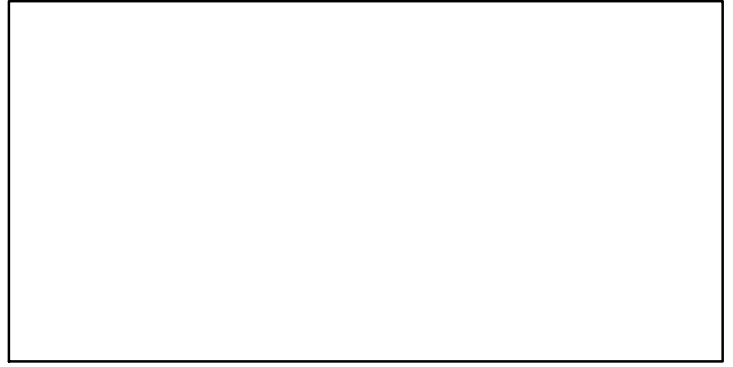
◆ Start Year ◆ End Year * No Data

Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

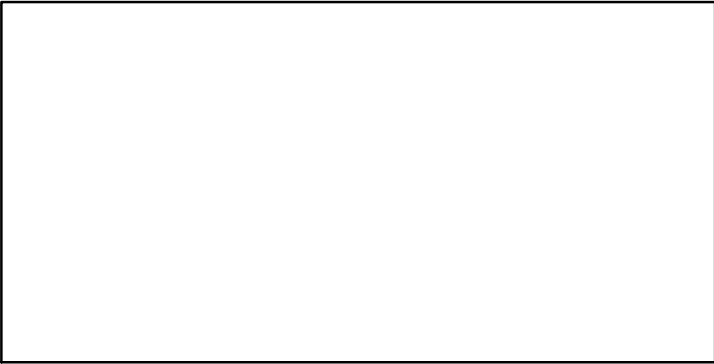
TB*



SSB*



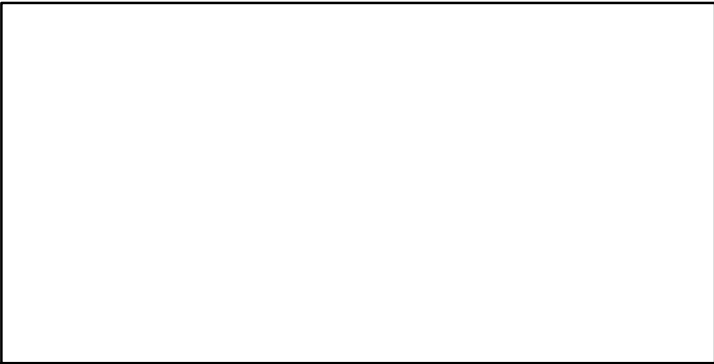
TN *



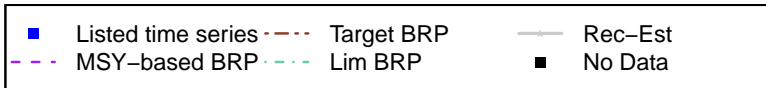
F*



ER*



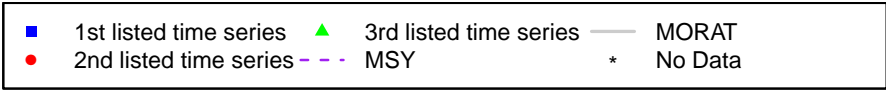
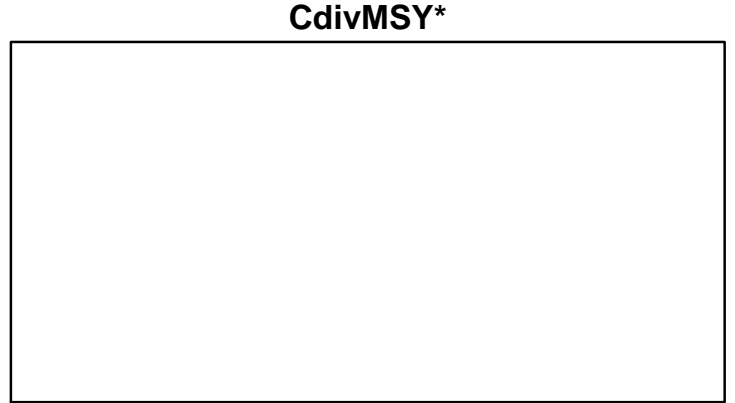
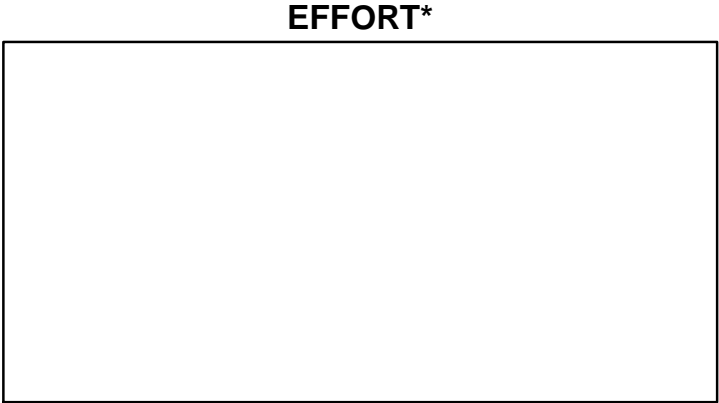
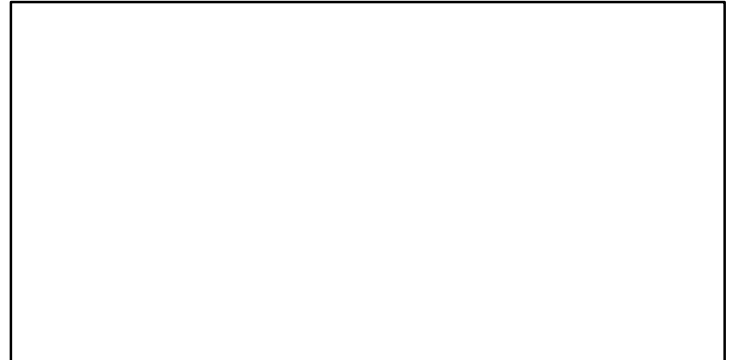
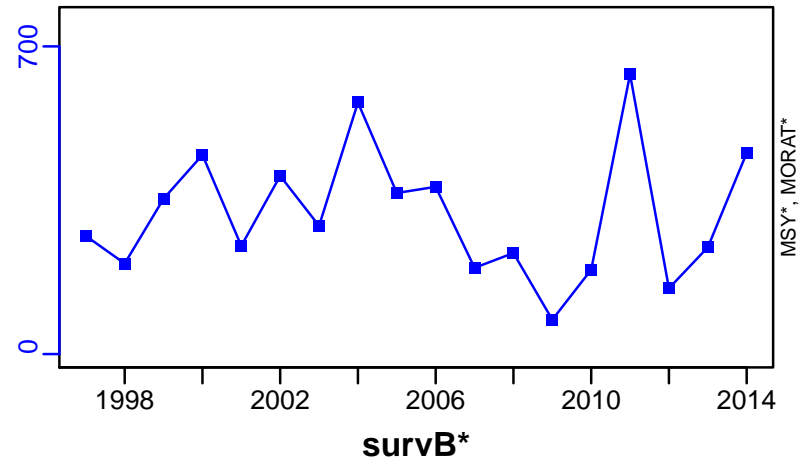
Recruits*



Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

TC-MT, TL*, RecC* (1997-2014-SISIMP2016)

TAC*, Cpair*, Cadv*



Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

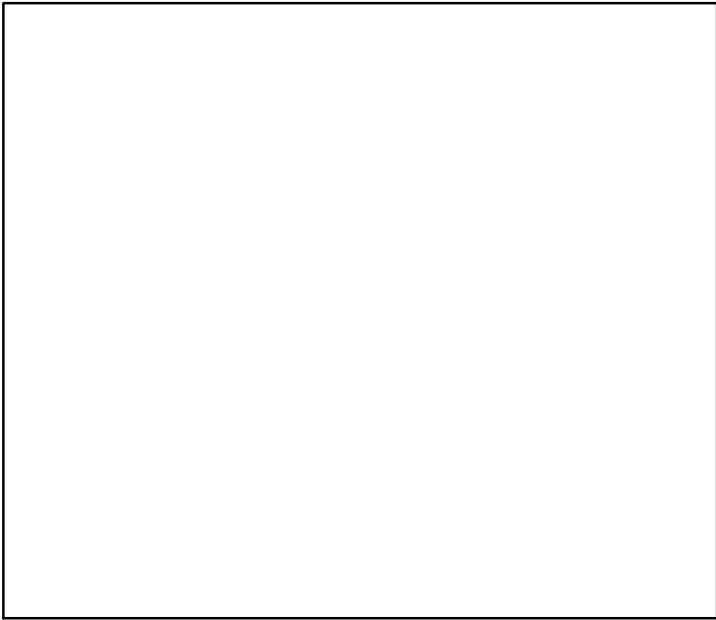
Metadata	
Scientific Name	Enteroctopus dofleini
Current Assess ID	AFSC-GPOCTOGA-1997-2014-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
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	0.212	-	-
TC	TC-MT	2014	1300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

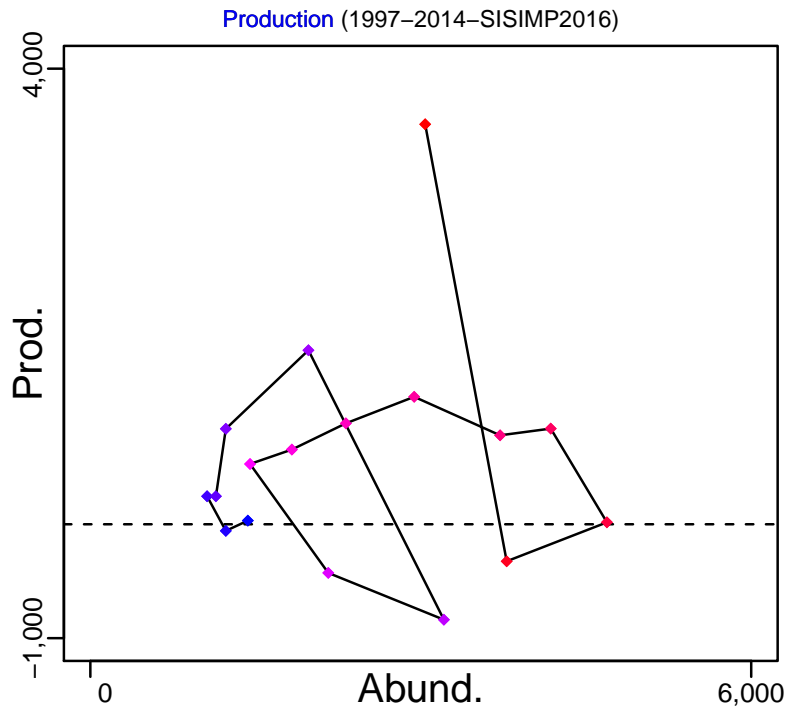
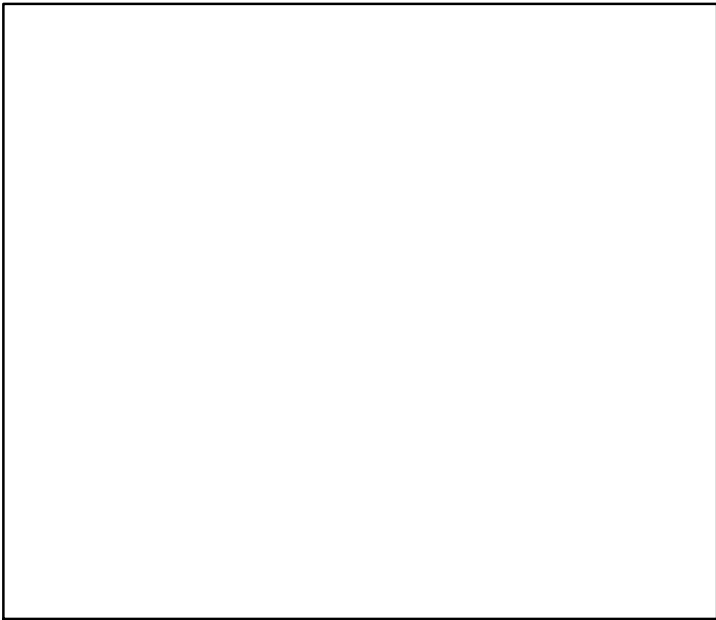
Kobe MSY*



Kobe MGT*



Spawner Recruit*

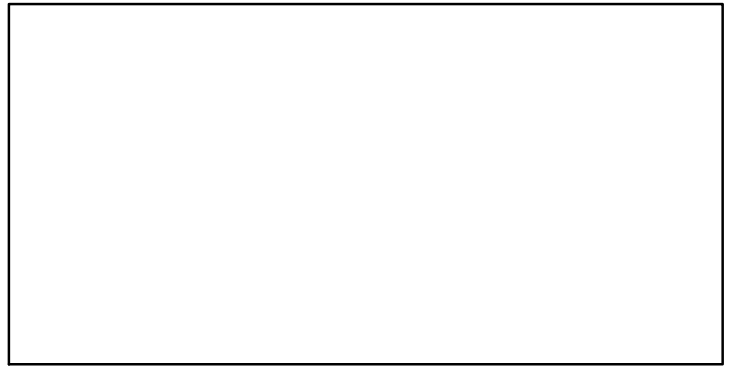
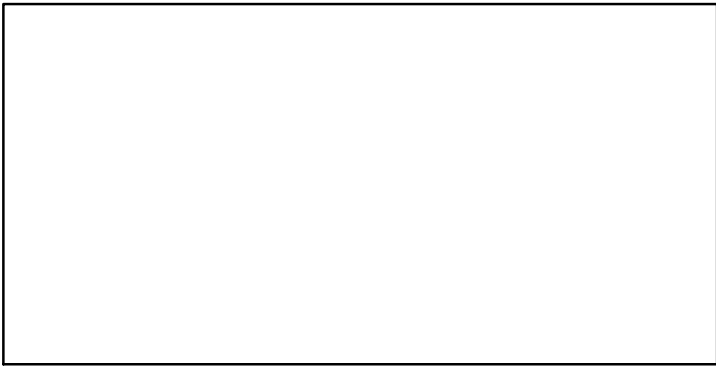
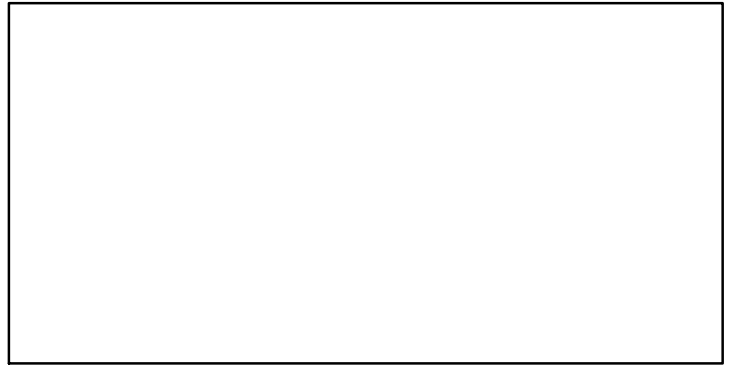
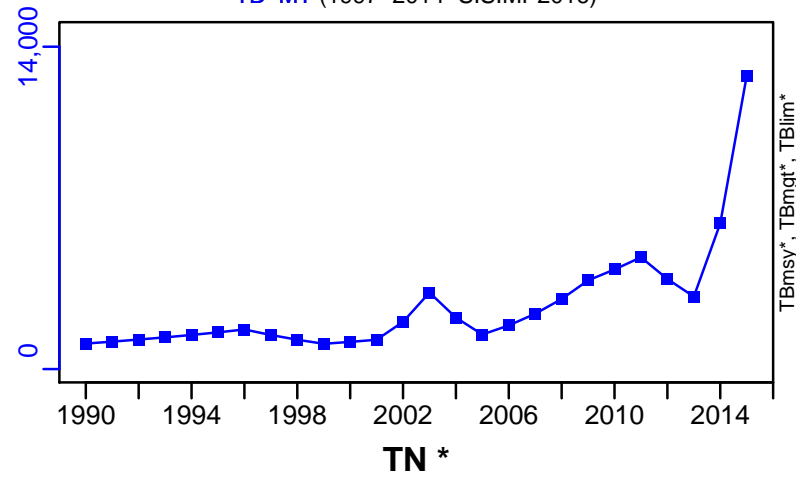


◆ Start Year ◆ End Year * No Data

Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

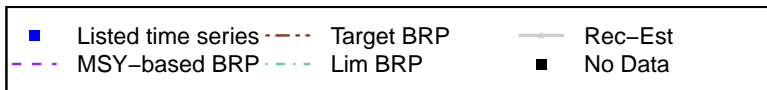
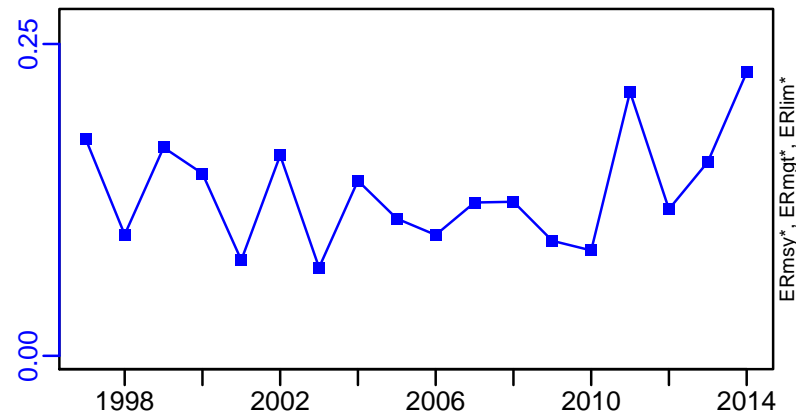
TB-MT (1997-2014-SISIMP2016)

SSB*



ER-calc-ratio (1997-2014-SISIMP2016)

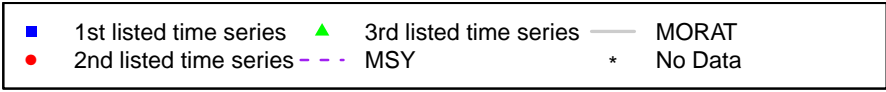
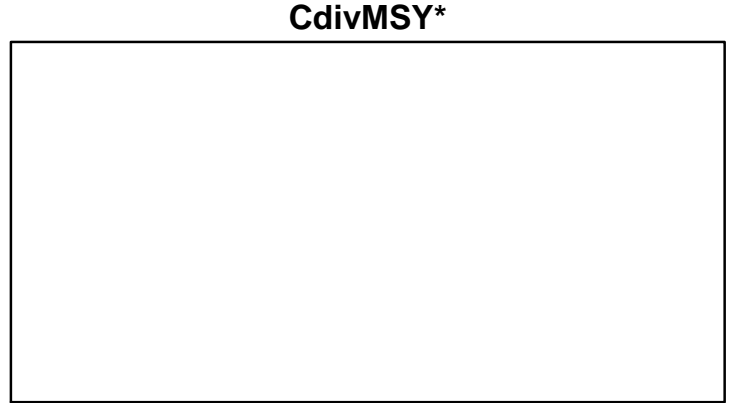
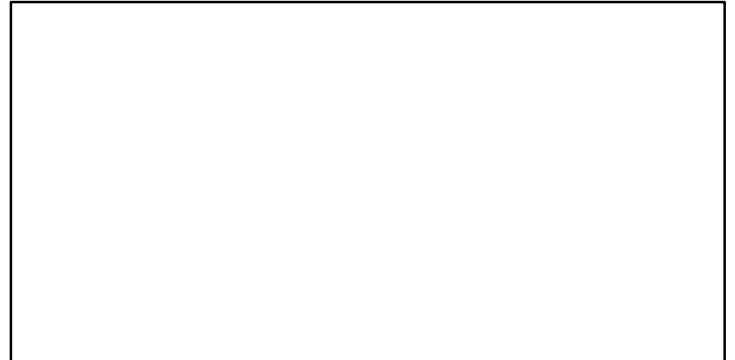
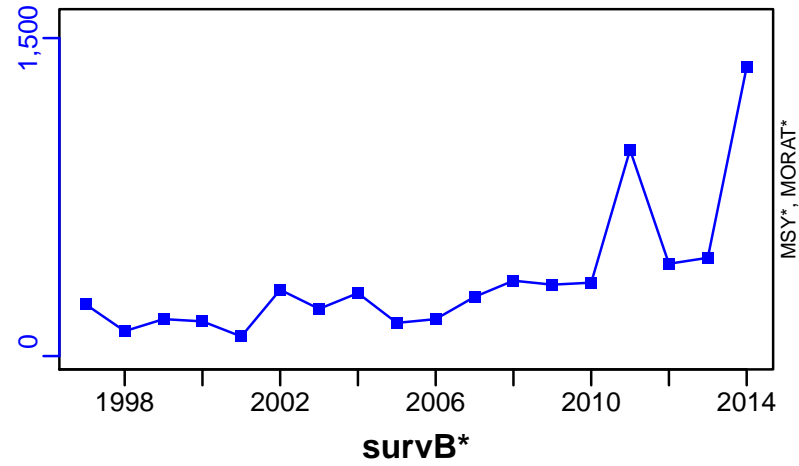
Recruits*



Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

TC-MT, TL*, RecC* (1997-2014-SISIMP2016)

TAC*, Cpair*, Cadv*



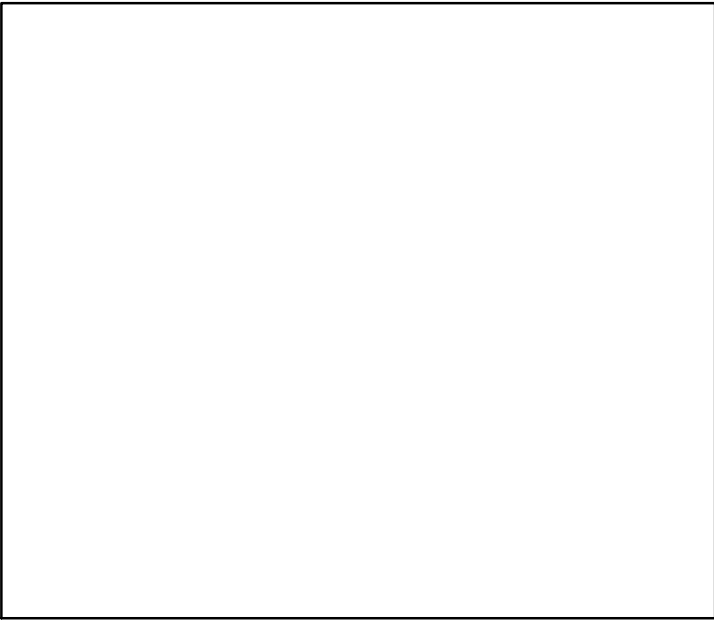
Northern shortfin squid Northwestern Atlantic Coast [ILLEXNWATLC]

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	-	-	-	-	-

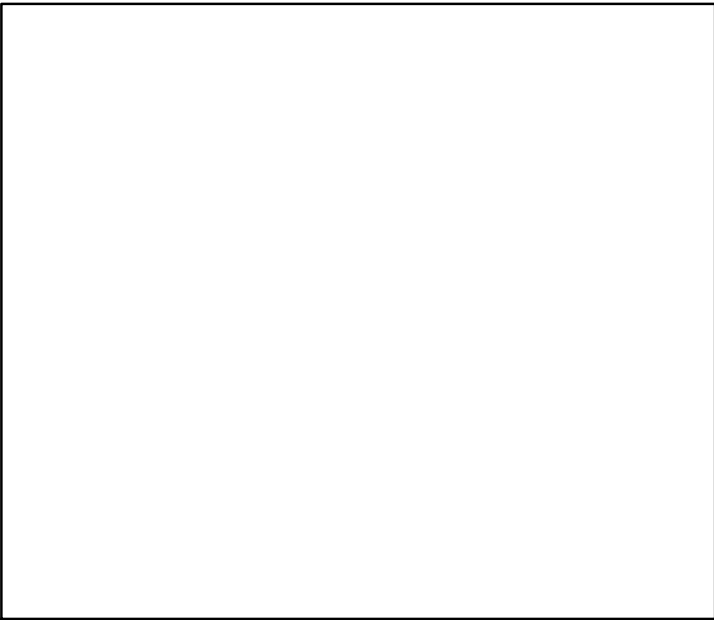
Kobe MSY*



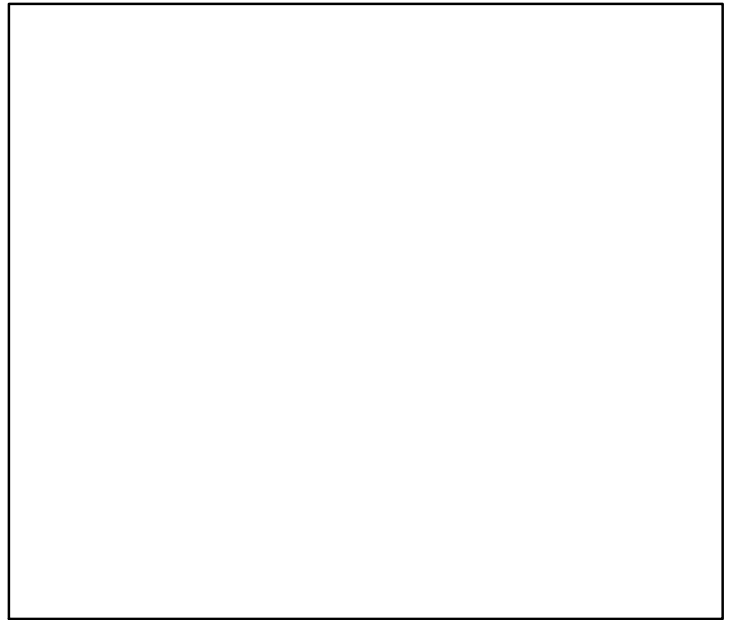
Kobe MGT*



Spawner Recruit*



Production*

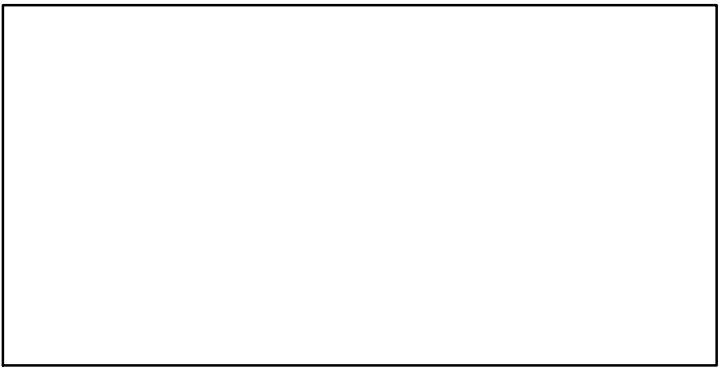
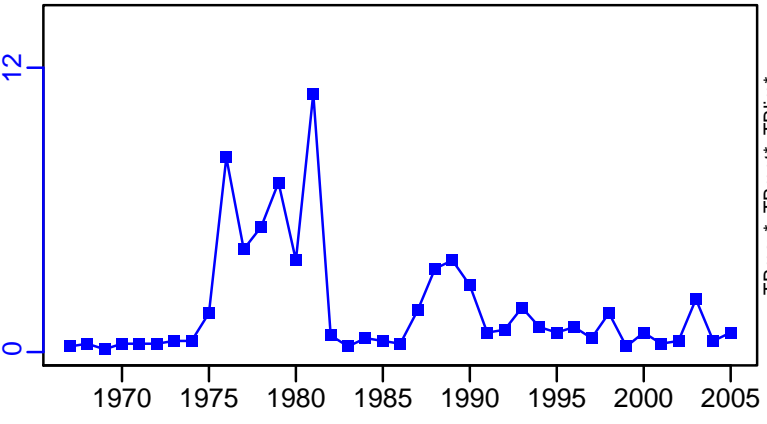


◆ Start Year ◆ End Year * No Data

Northern shortfin squid Northwestern Atlantic Coast [ILLEXNWATLC]

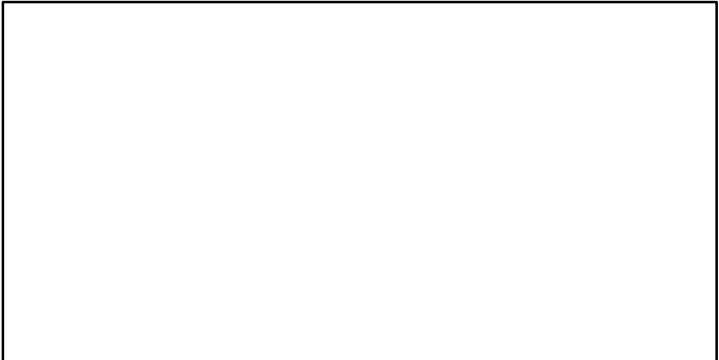
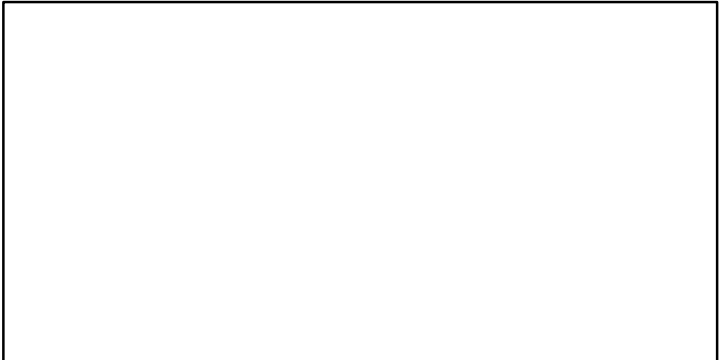
TB-relative (1967–2005–HENDRICKSON)

SSB*



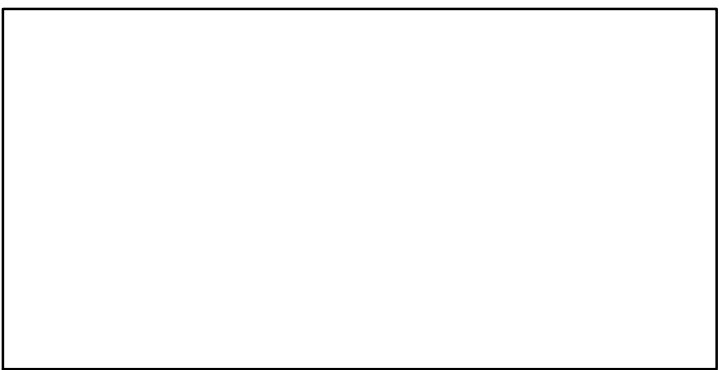
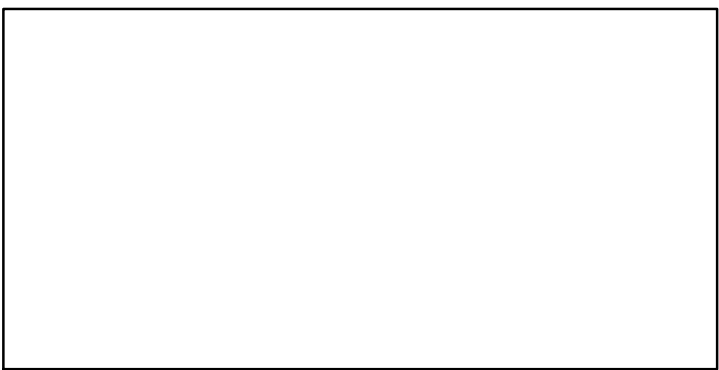
TN *

F*



ER*

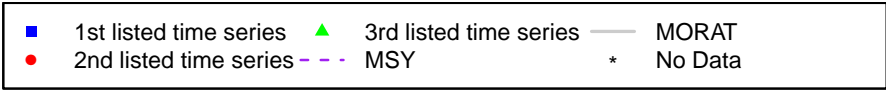
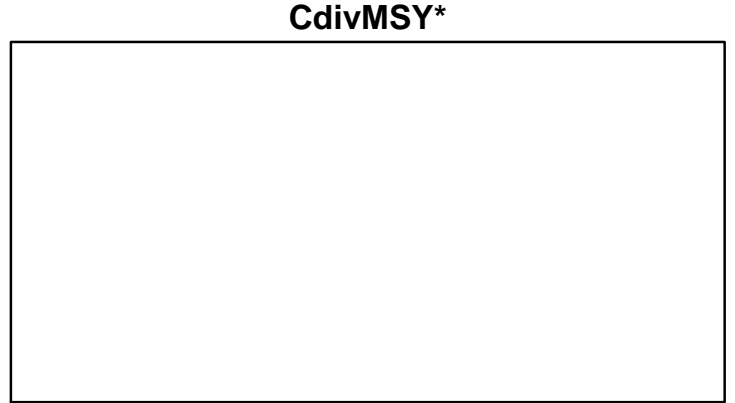
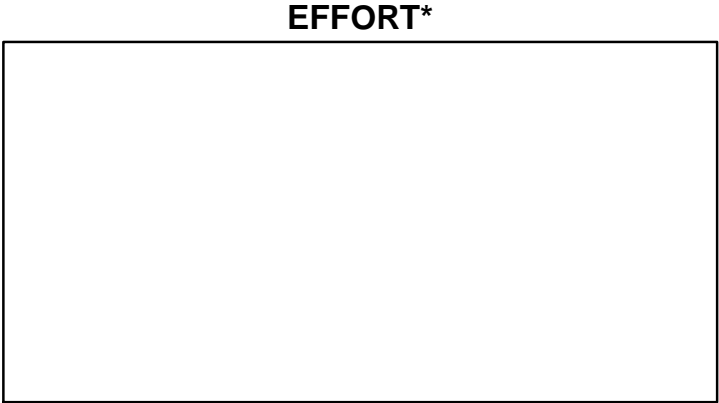
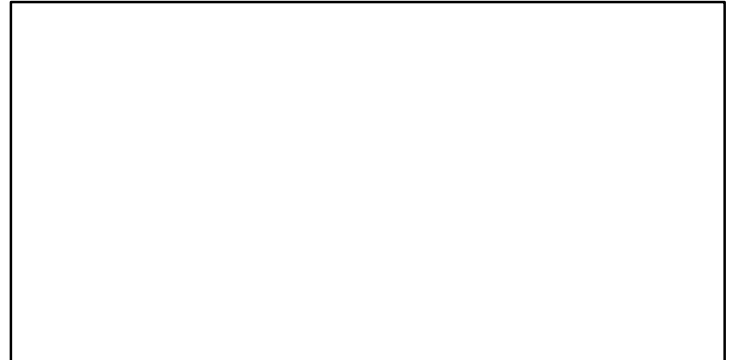
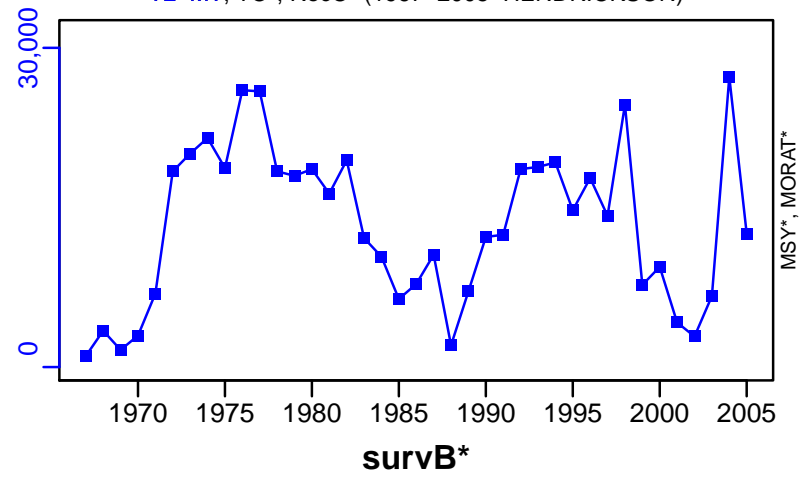
Recruits*



Northern shortfin squid Northwestern Atlantic Coast [ILLEXNWATLC]

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

TAC*, Cpair*, Cadv*



Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

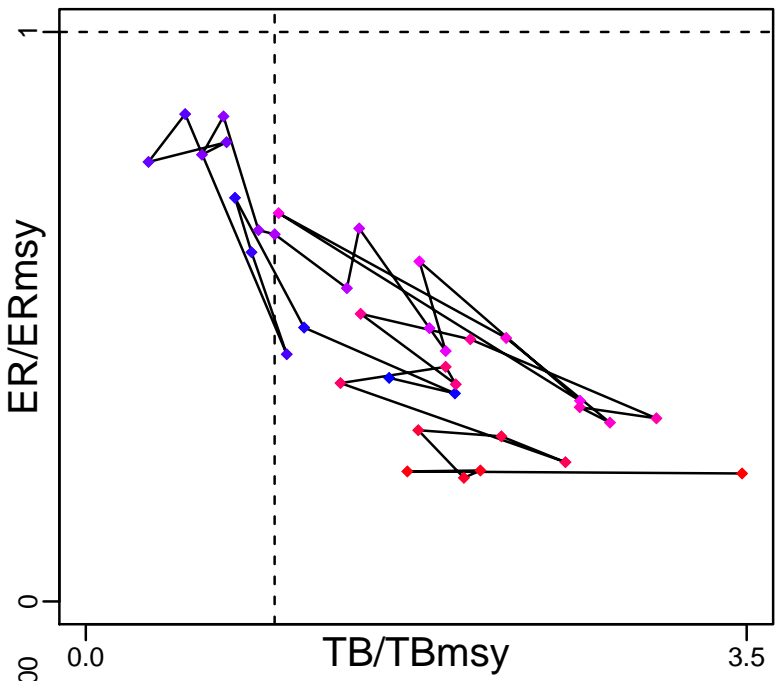
Metadata	
Scientific Name	Todarodes pacificus
Current Assess ID	FAFRFJ-JCSQUIDJPNAR-1979-2014-JPNIMP2016
Area	Japan Autumn recruitment
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2014

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	-	-	-

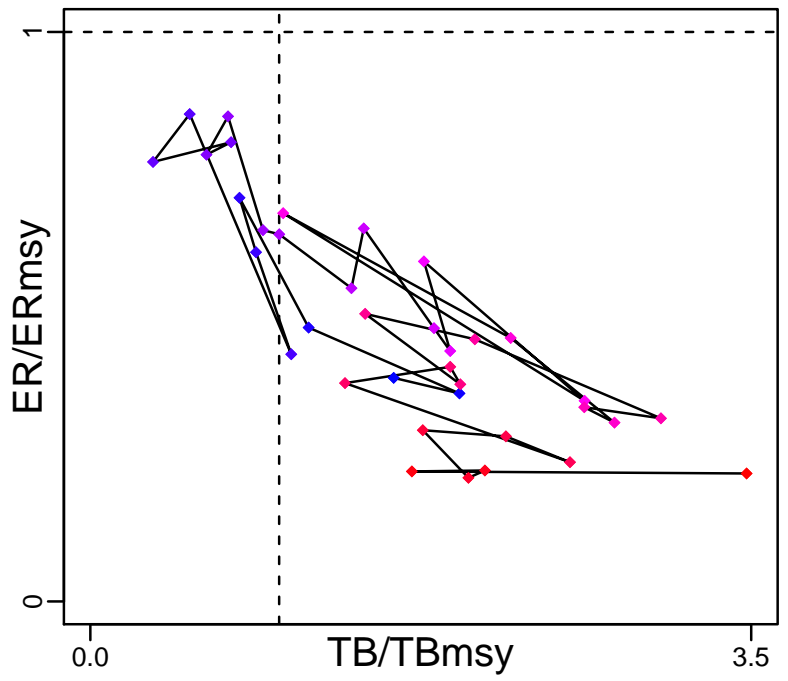
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	2,350,000	-	0.5
SSB	SSB-MT	2014	1,110,000	Both	0.5
TN	-	-	-	-	-
R	R-E00	2014	8.37×10^9	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.1	-	-
TC	TC-MT	2014	235,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	3.476		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.225		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

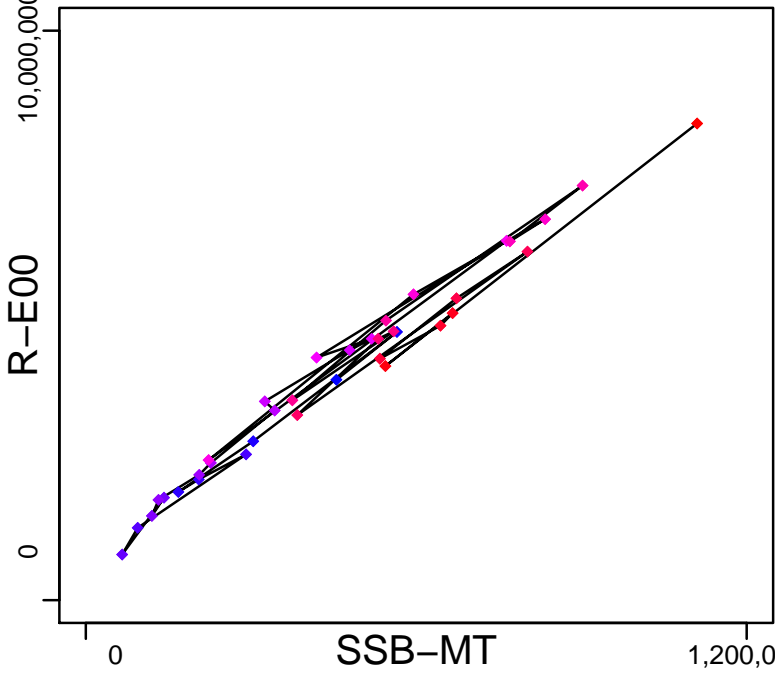
Kobe MSYpref (1979–2014–JPNIMP2016)



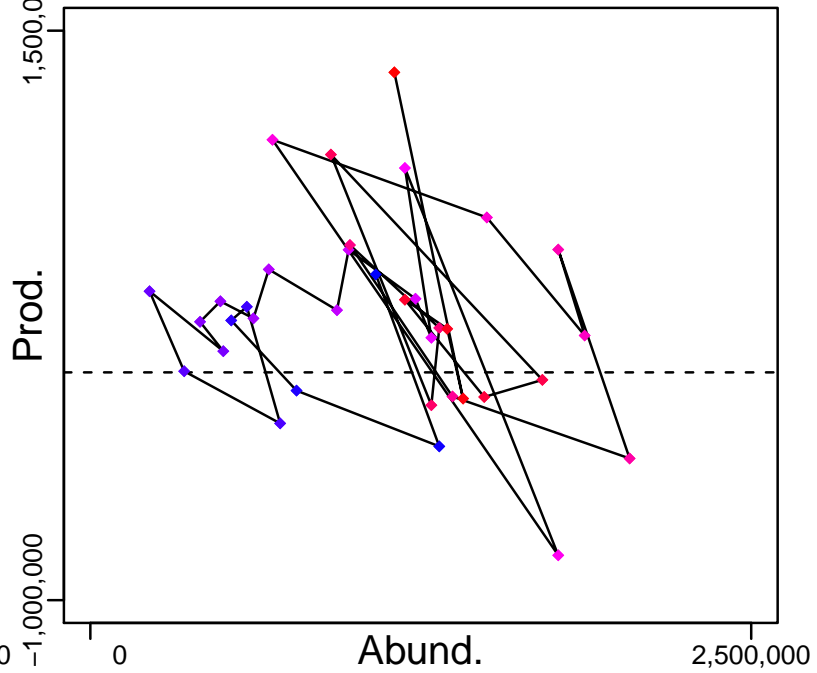
Kobe MGTpref (1979–2014–JPNIMP2016)



Spawner Recruit (1979–2014–JPNIMP2016)



Production (1979–2014–JPNIMP2016)

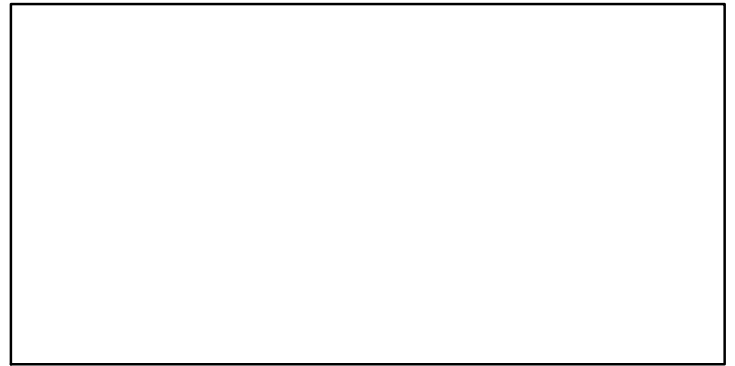
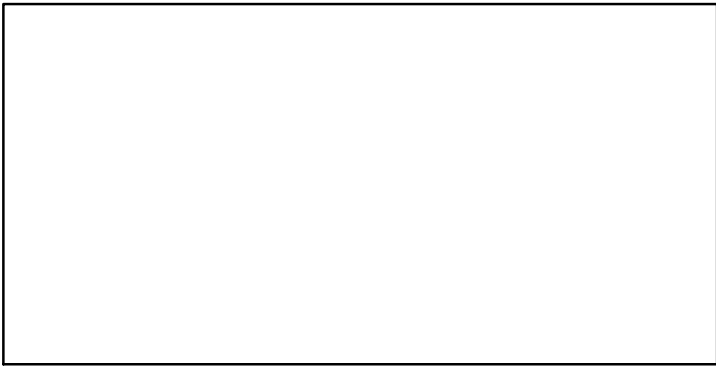
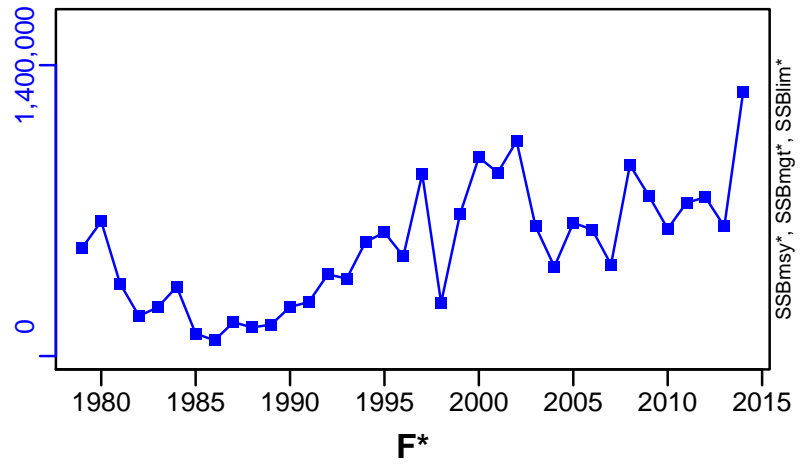
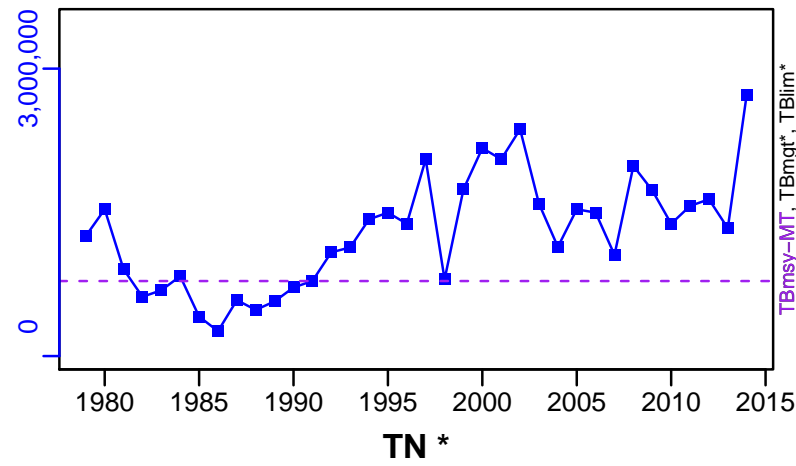


◆ Start Year ◆ End Year * No Data

Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

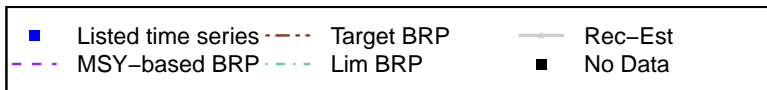
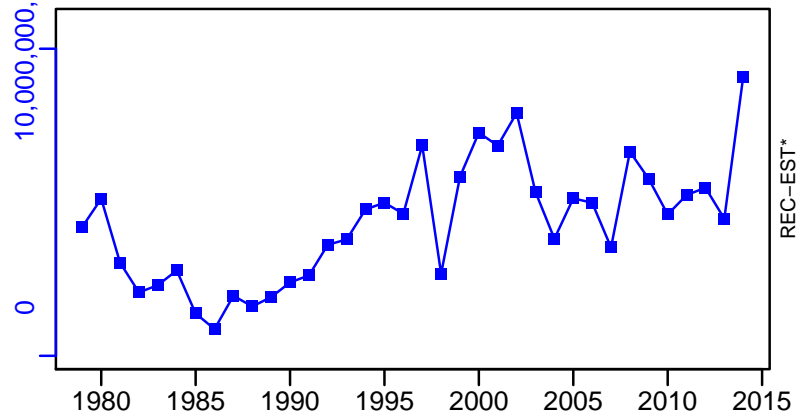
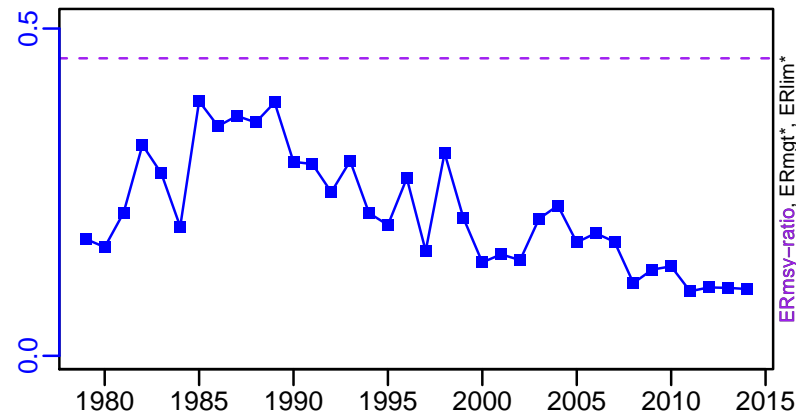
TB-MT (1979-2014-JPNIMP2016)

SSB-MT (1979-2014-JPNIMP2016)



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

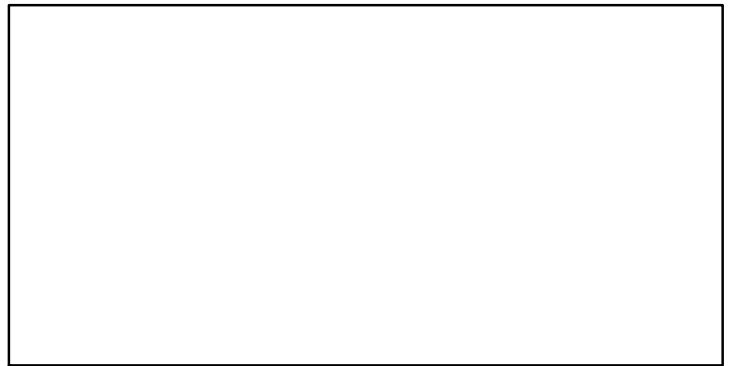
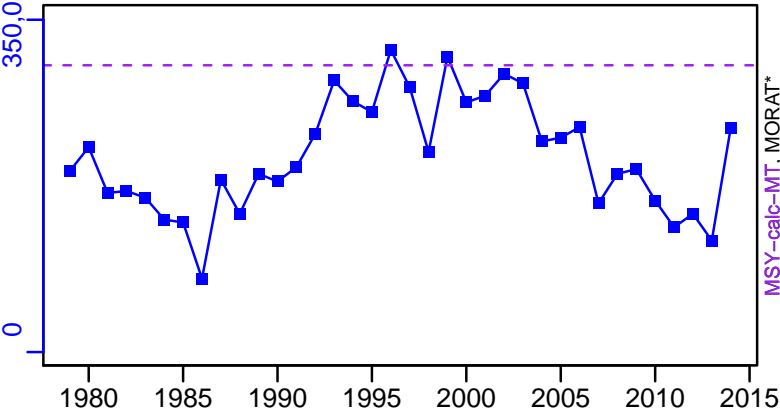
R-E00 (1979-2014-JPNIMP2016)



Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

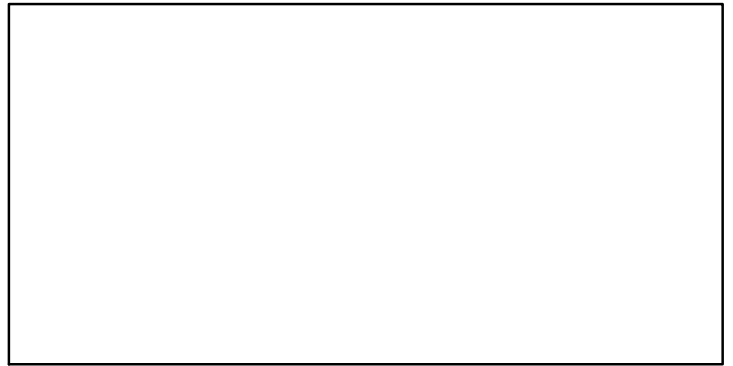
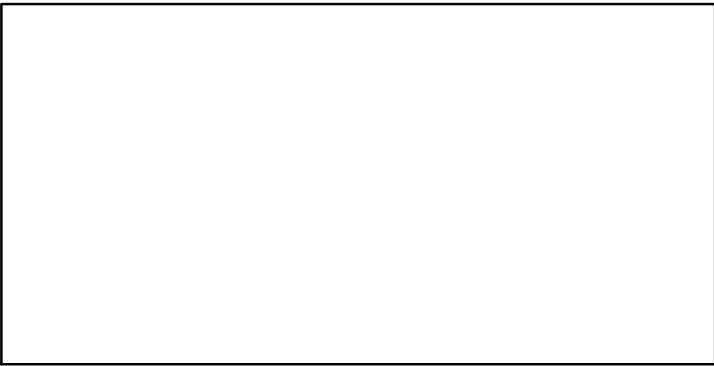
TC-MT, TL*, RecC* (1979-2014-JPNIMP2016)

TAC*, Cpair*, Cadv*



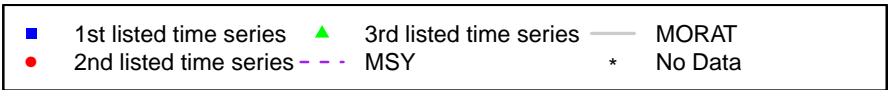
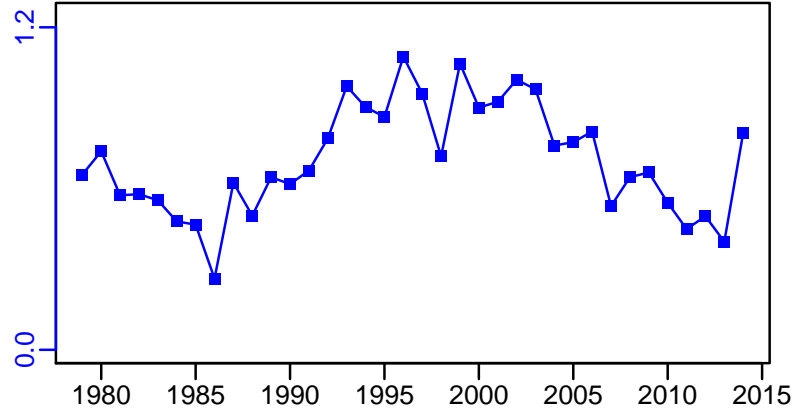
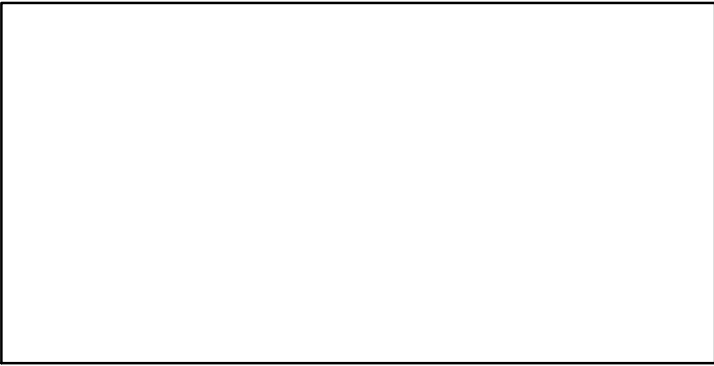
survB*

CPUE*



EFFORT*

CdivMSY-ratio (1979-2014-JPNIMP2016)



Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

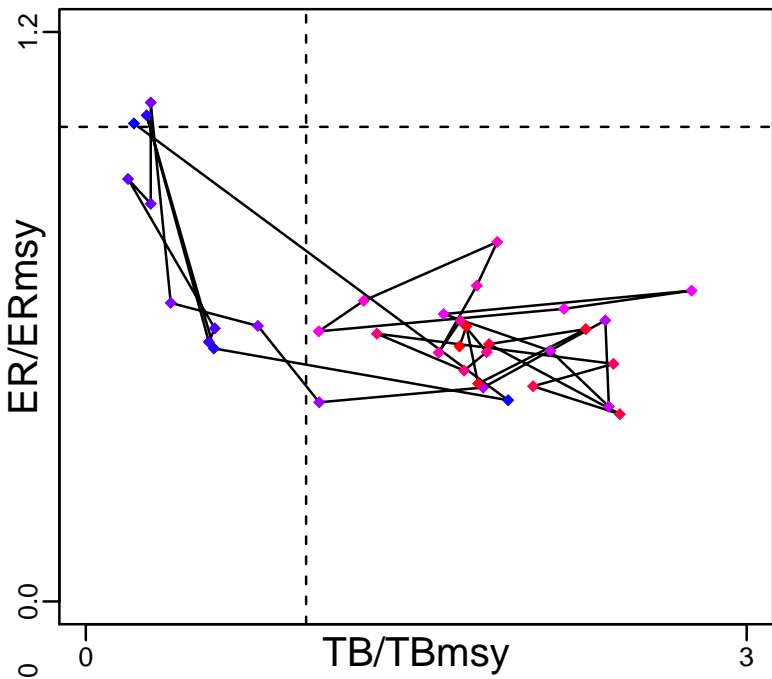
Metadata	
Scientific Name	Todarodes pacificus
Current Assess ID	FAFRFJ-JCSQUIDJPNWR-1979-2014-JPNIMP2016
Area	Japan Winter recruitment
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2014

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	-	-	-

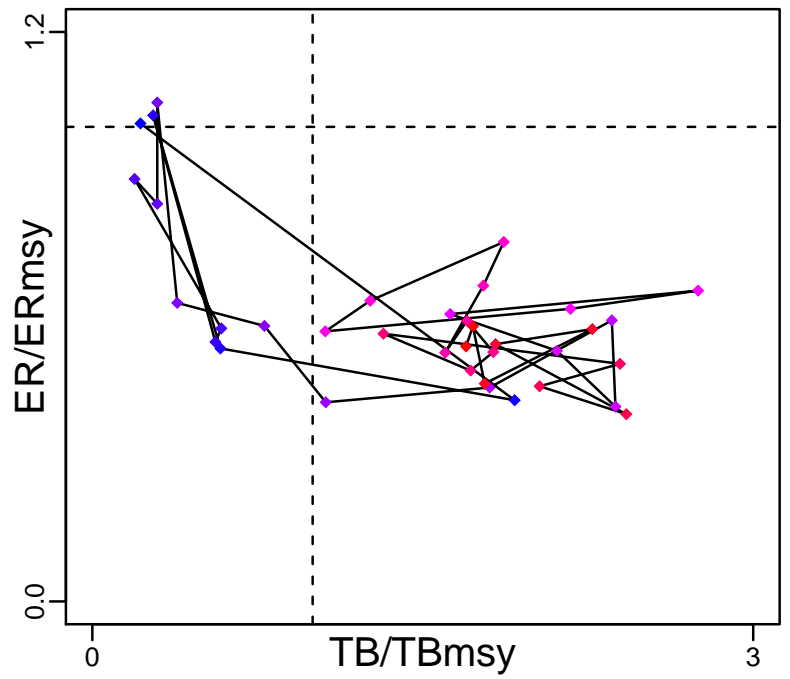
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	823,000	-	0.5
SSB	SSB-MT	2014	301,000	Both	0.5
TN	-	-	-	-	-
R	R-E00	2014	2.66×10^9	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.247	-	-
TC	TC-MT	2014	203,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	1.696		
SSB/SSBmsy	-	-	-		
F/Fmsy	-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

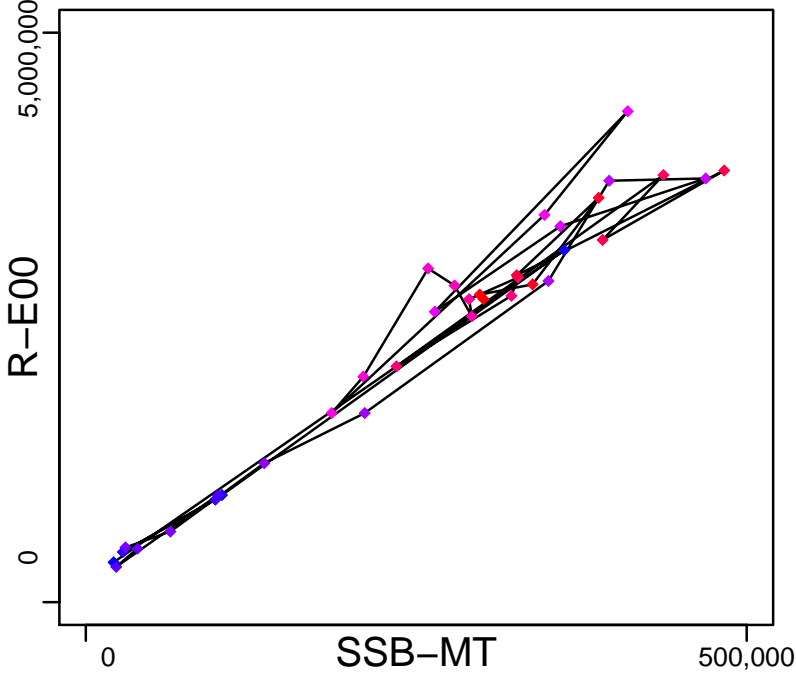
Kobe MSYpref (1979–2014–JPNIMP2016)



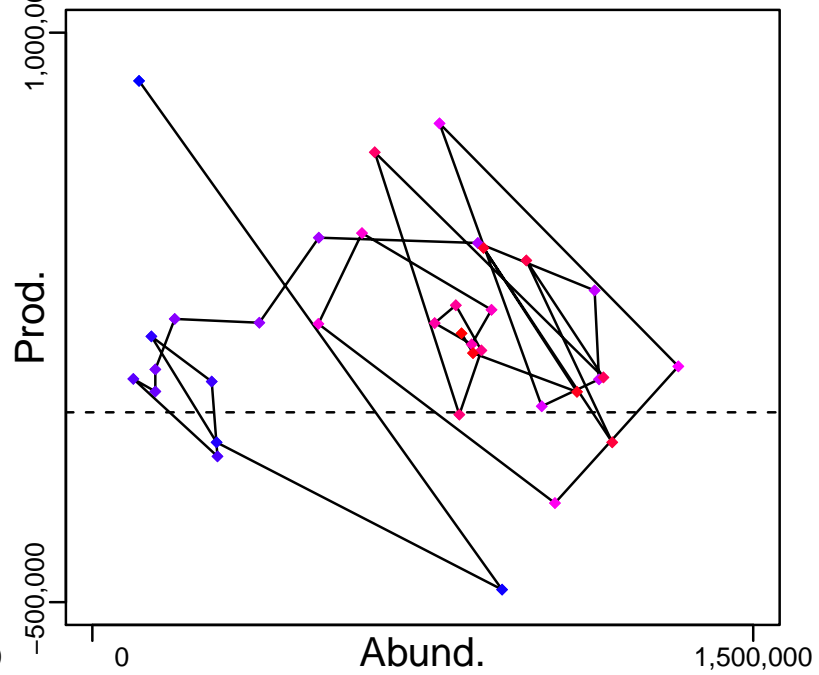
Kobe MGTpref (1979–2014–JPNIMP2016)



Spawner Recruit (1979–2014–JPNIMP2016)



Production (1979–2014–JPNIMP2016)

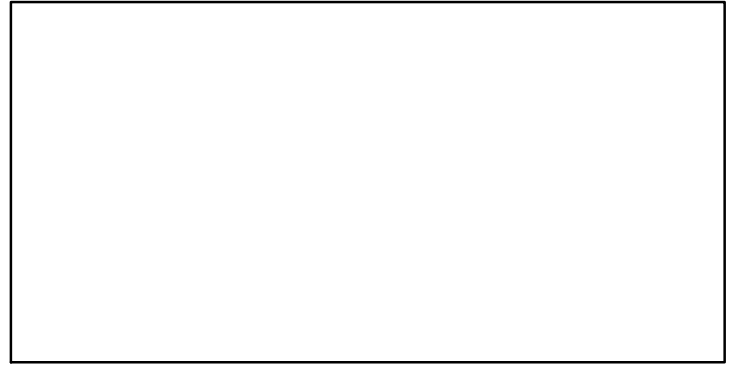
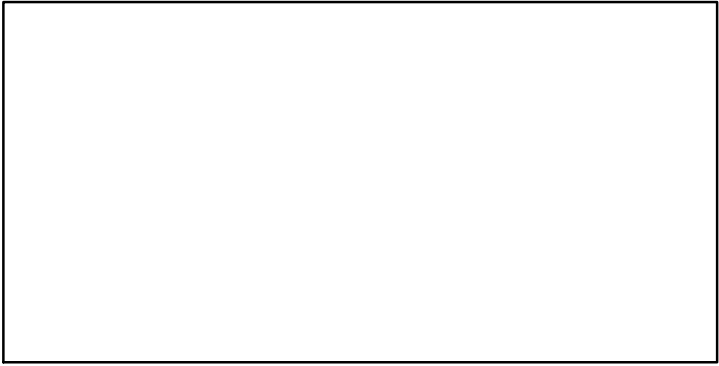
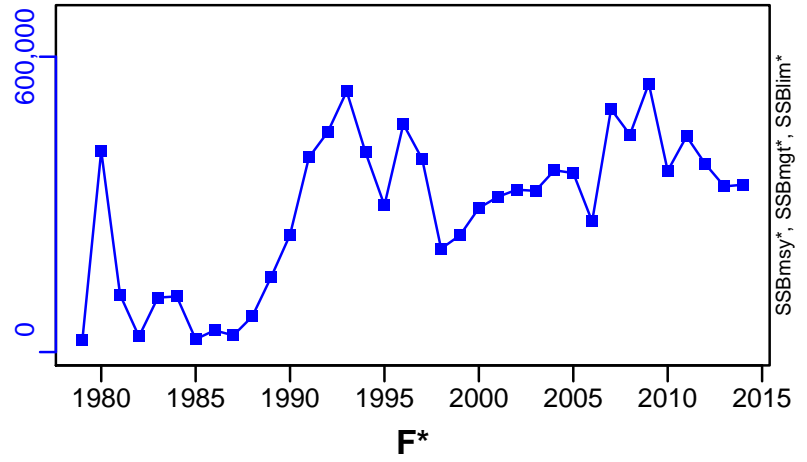
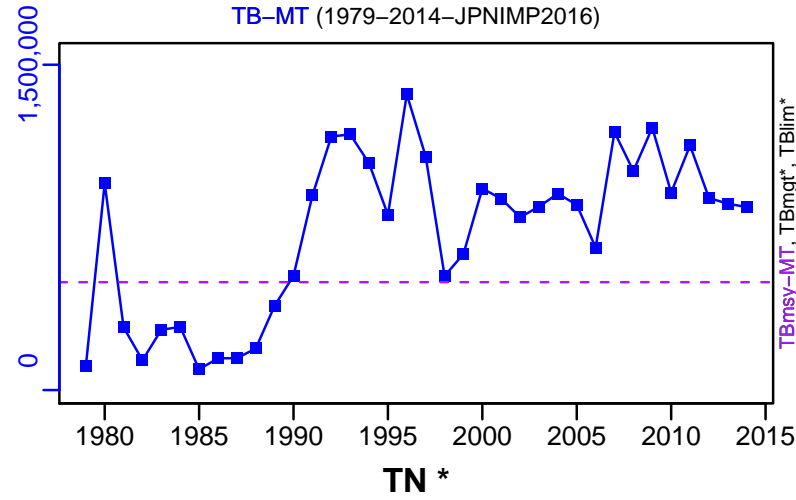


◆ Start Year ◆ End Year * No Data

Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

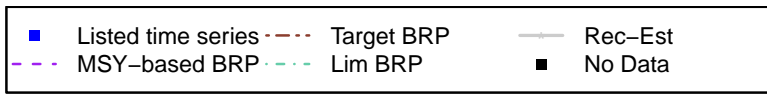
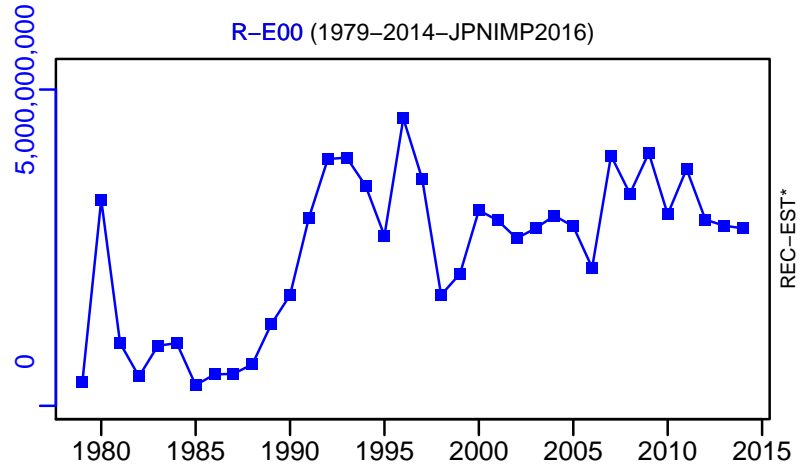
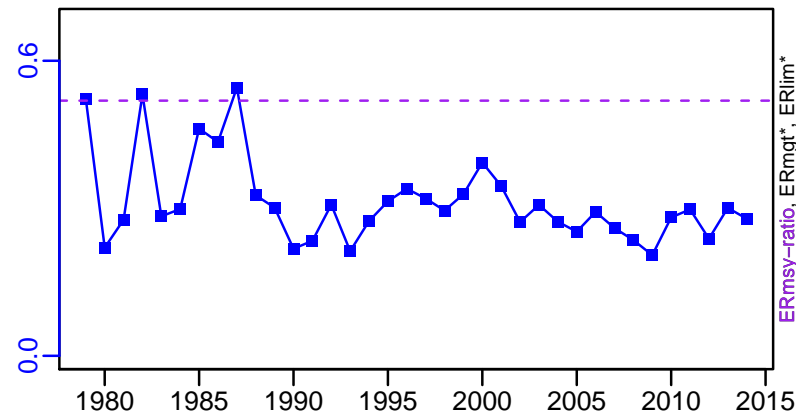
TB-MT (1979-2014-JPNIMP2016)

SSB-MT (1979-2014-JPNIMP2016)



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

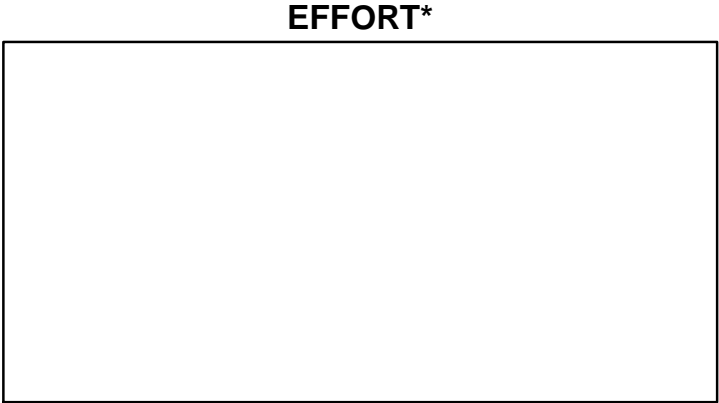
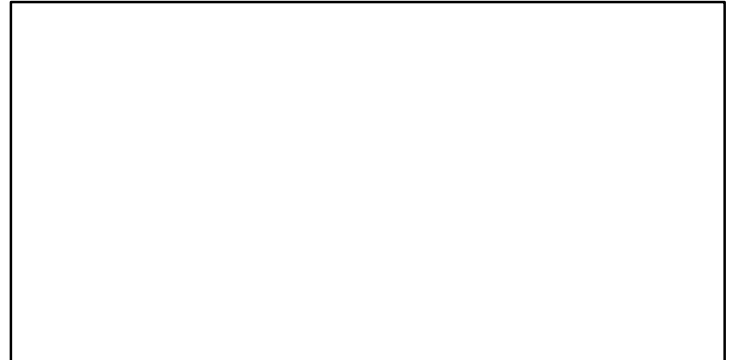
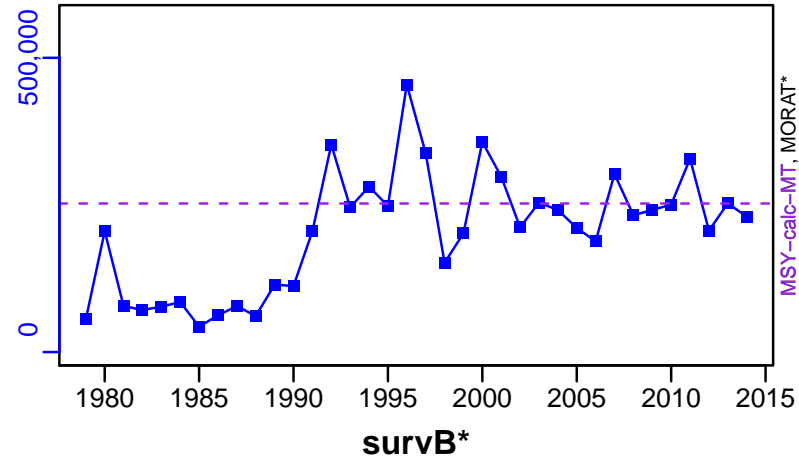
R-E00 (1979-2014-JPNIMP2016)



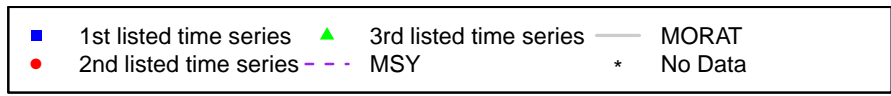
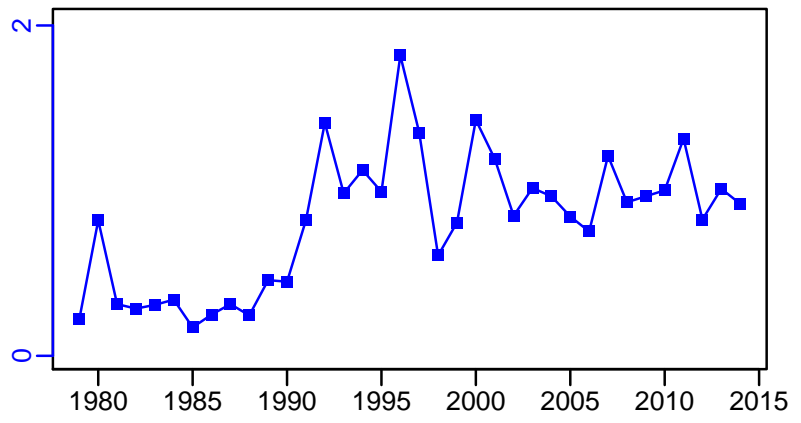
Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

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

TAC*, Cpair*, Cadv*



CdivMSY-ratio (1979-2014-JPNIMP2016)



Longfin inshore squid Atlantic Coast [LISQUIDATLC]

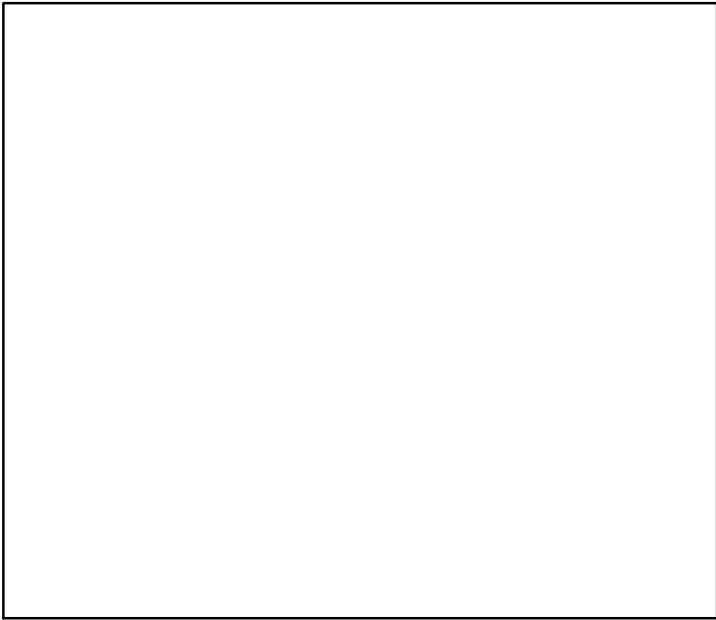
Metadata	
Scientific Name	Loligo pealeii
Current Assess ID	SEFSC-LISQUIDATLC-1963-2009-HIVELY
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2009

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	39,800	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2009	0.24	-	-
ER	ER-calc-ratio	2009	0.24	-	-
TC	TC-MT	2009	9560		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2009	0.939		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Longfin inshore squid Atlantic Coast [LISQUIDATLC]

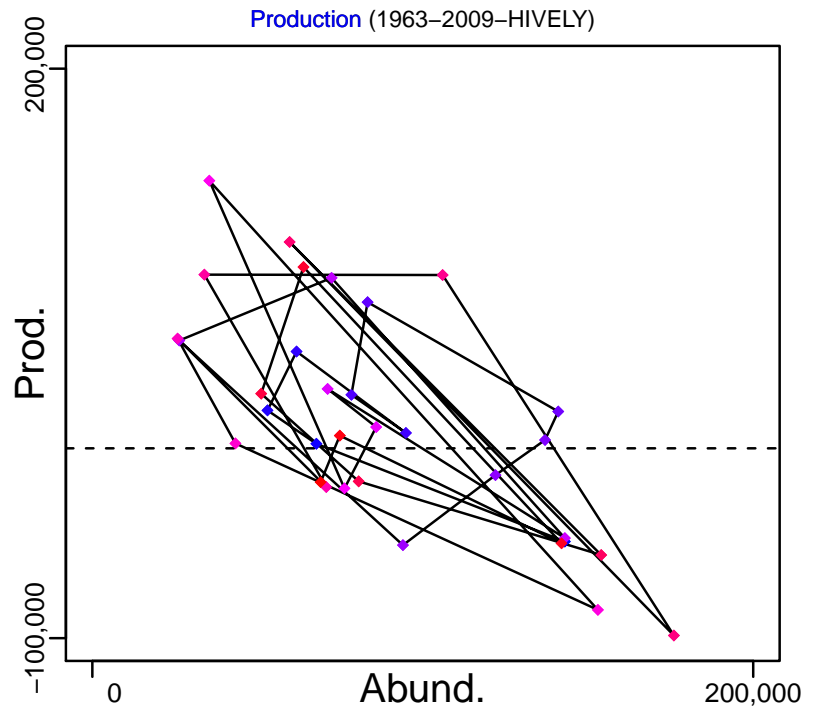
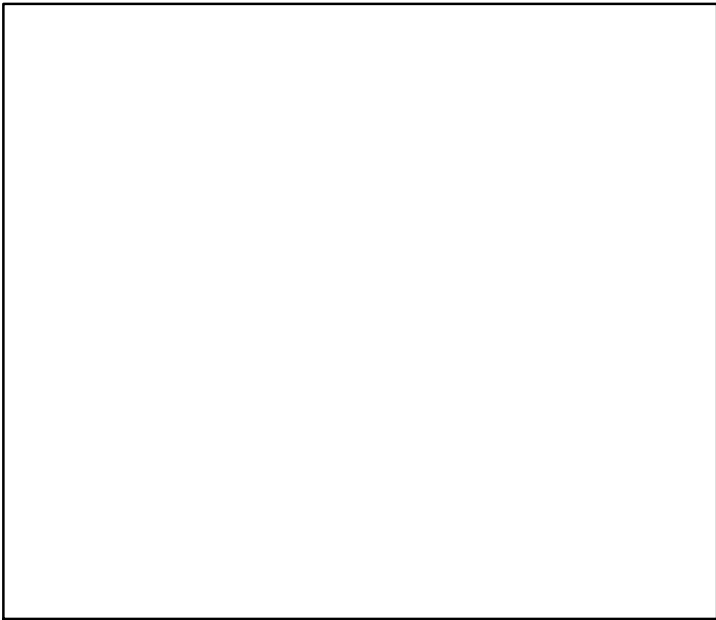
Kobe MSY*



Kobe MGT*



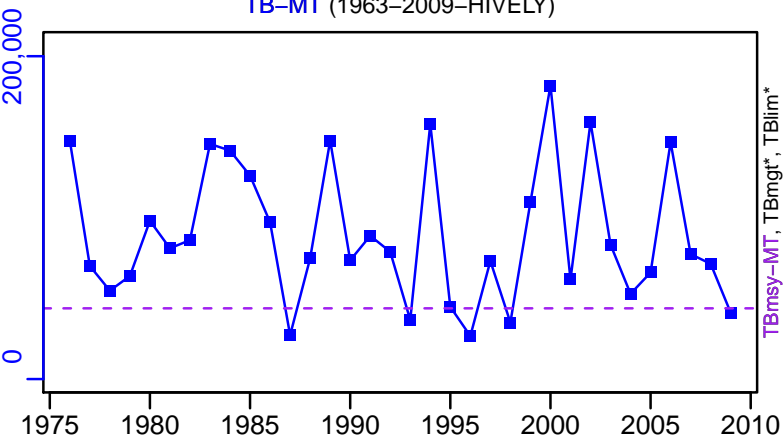
Spawner Recruit*



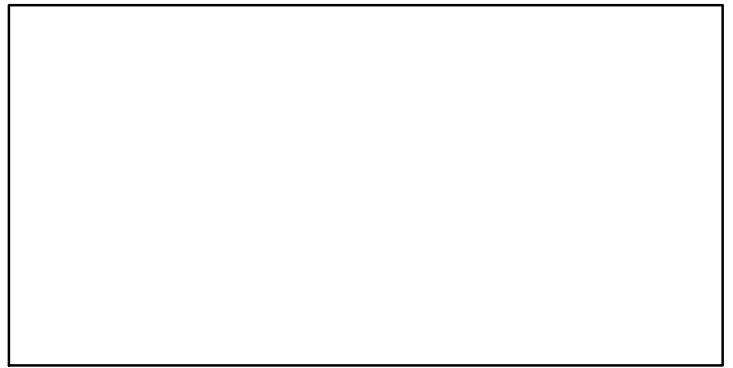
◆ Start Year ◆ End Year * No Data

Longfin inshore squid Atlantic Coast [LISQUIDATLC]

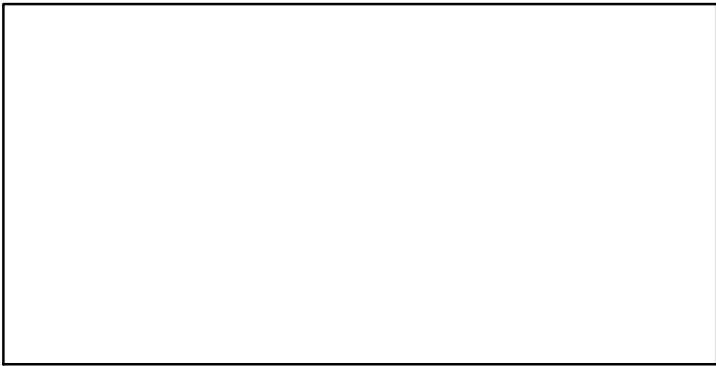
TB-MT (1963-2009-HIVELY)



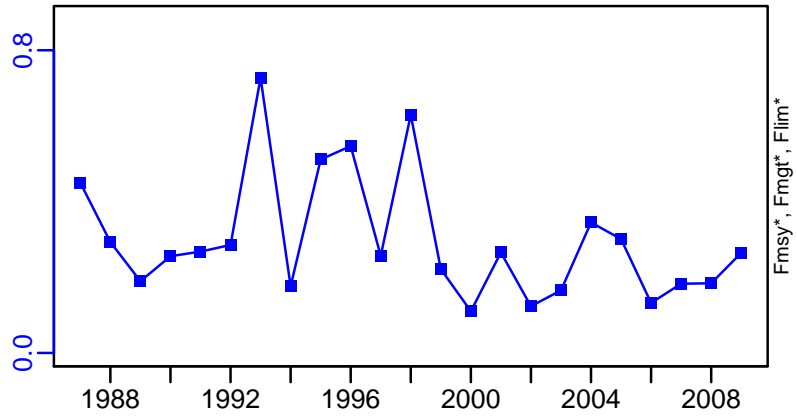
SSB*



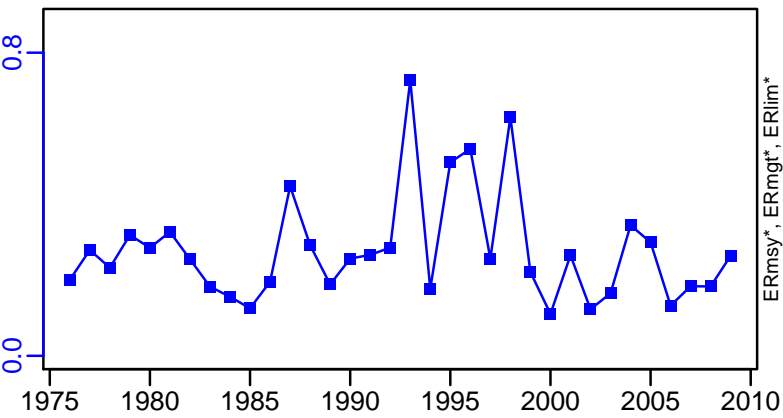
TN *



F-1/yr (1963-2009-HIVELY)



ER-calc-ratio (1963-2009-HIVELY)



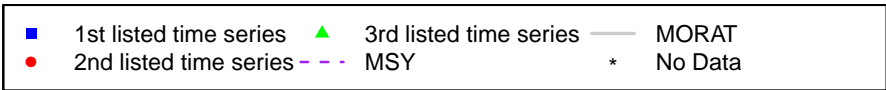
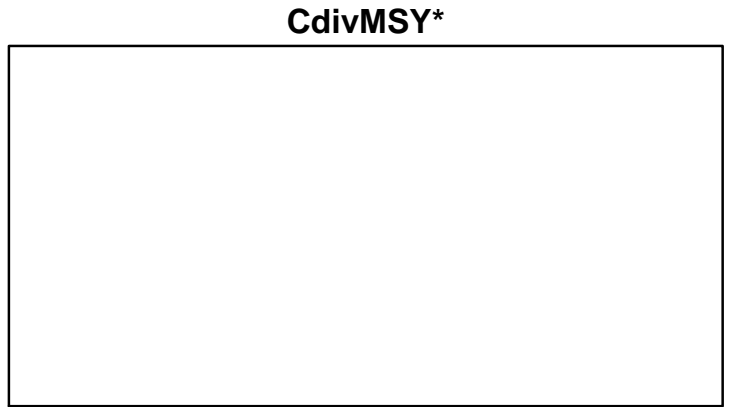
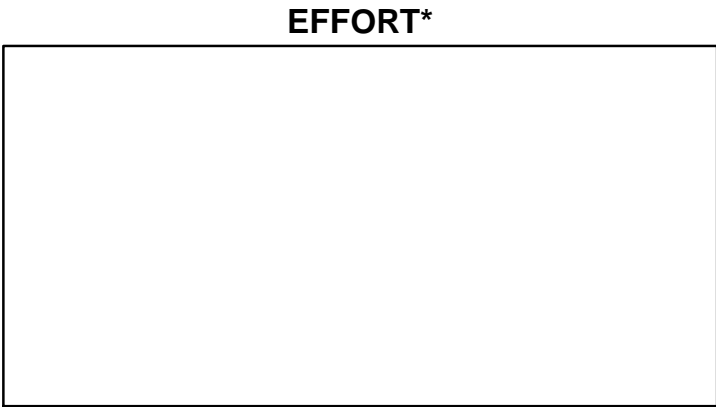
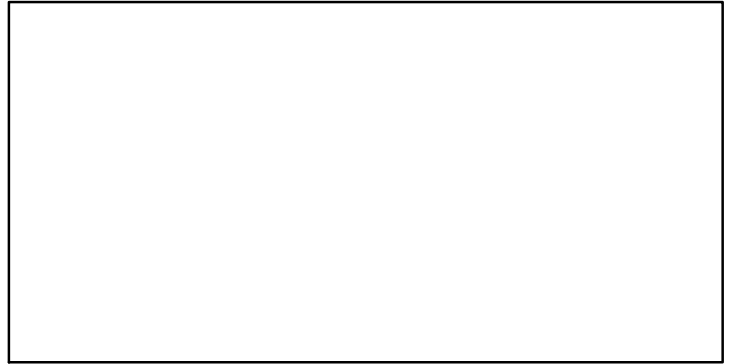
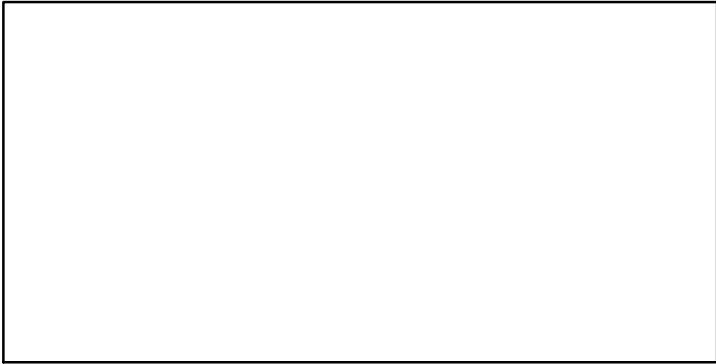
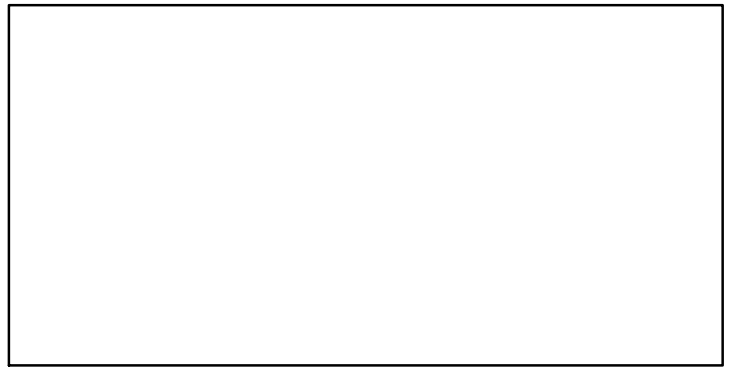
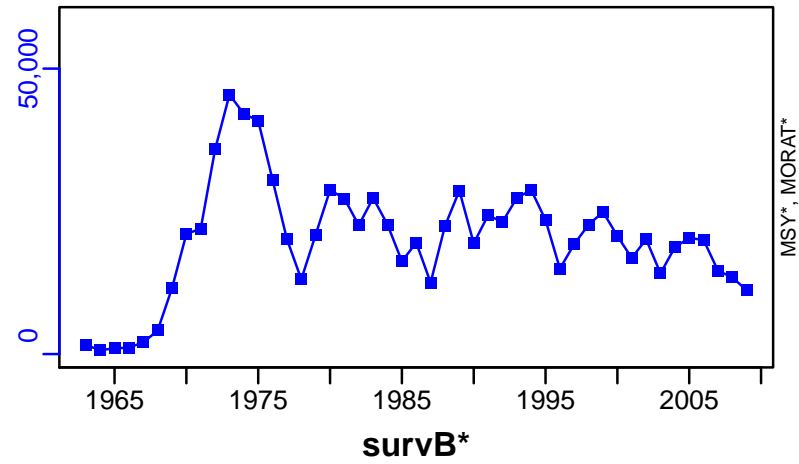
Recruits*



Longfin inshore squid Atlantic Coast [LISQUIDATLC]

TC-MT, TL*, RecC* (1963-2009-HIVELY)

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	-	-	-

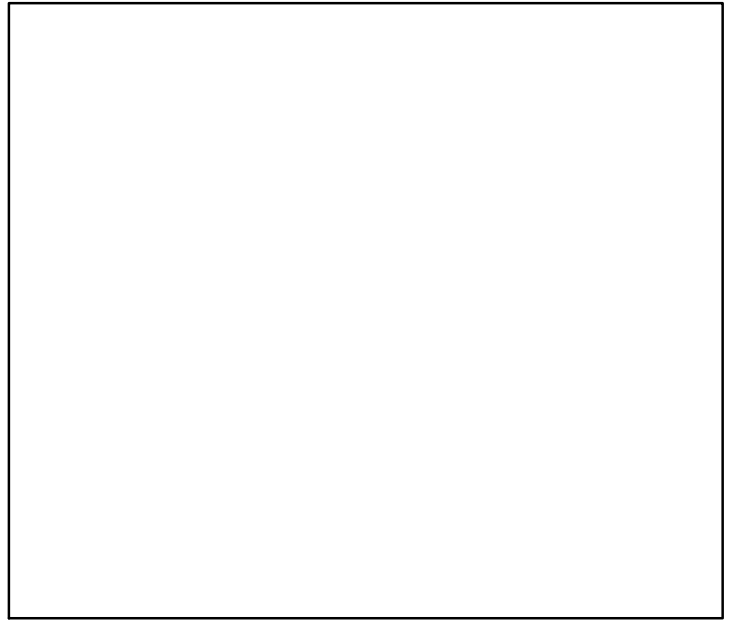
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	1160		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Octopus West Africa [OCTOWA]

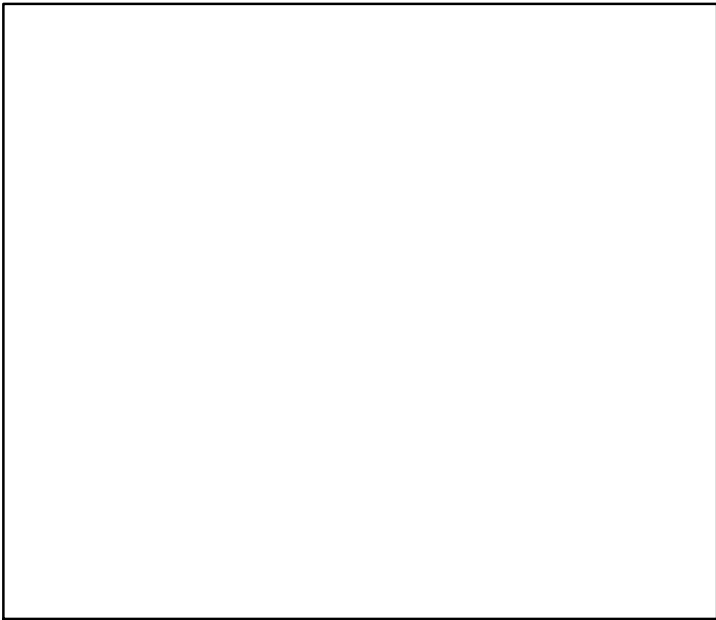
Kobe MSY*



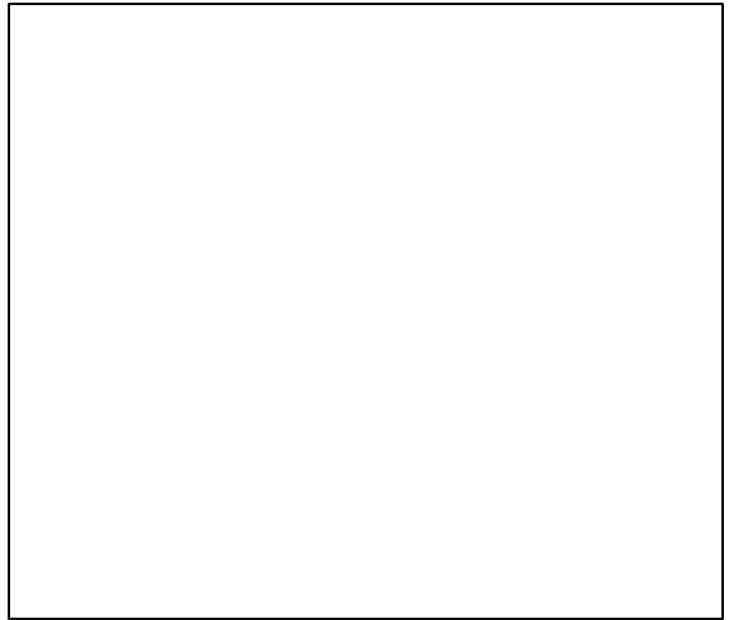
Kobe MGT*



Spawner Recruit*



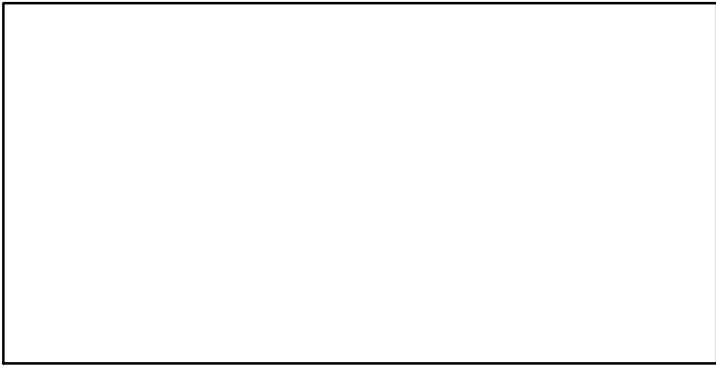
Production*



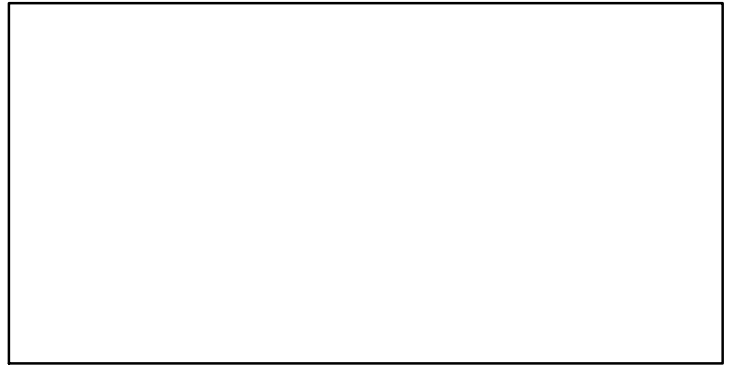
◆ Start Year ◆ End Year * No Data

Octopus West Africa [OCTOWA]

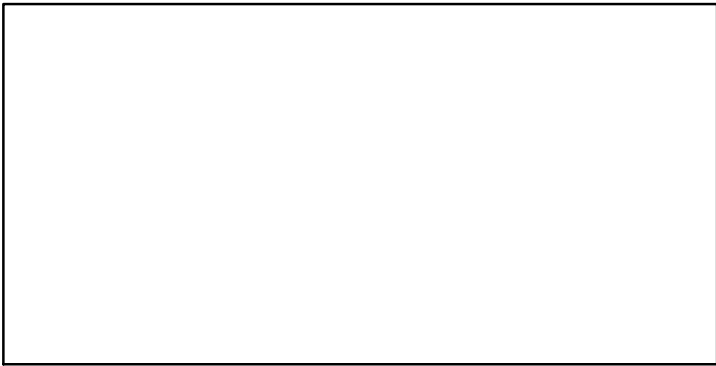
TB*



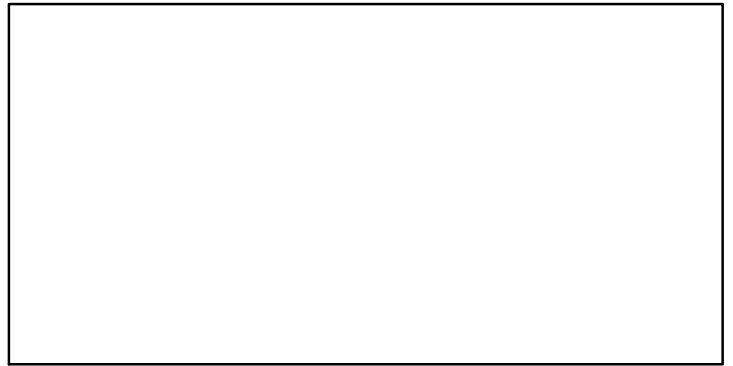
SSB*



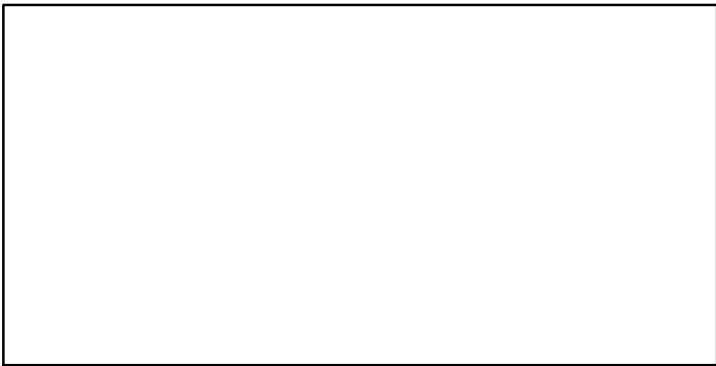
TN *



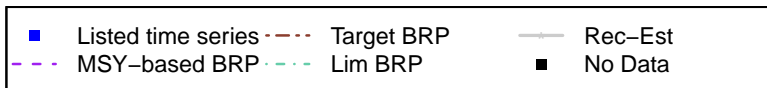
F*



ER*



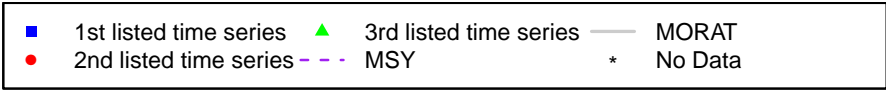
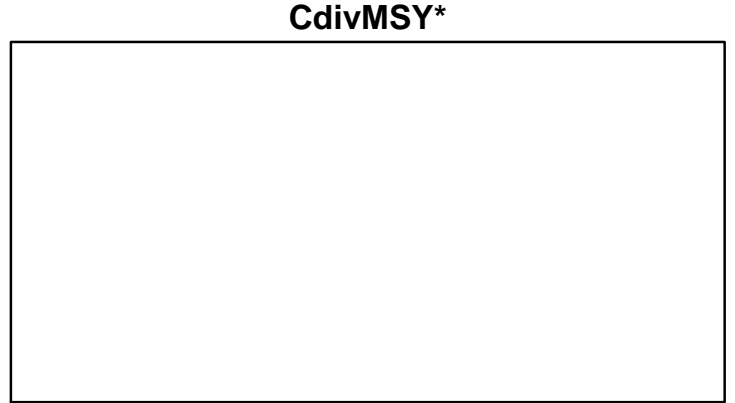
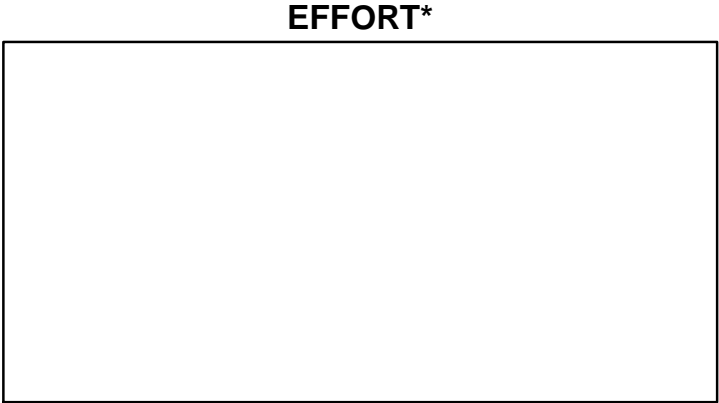
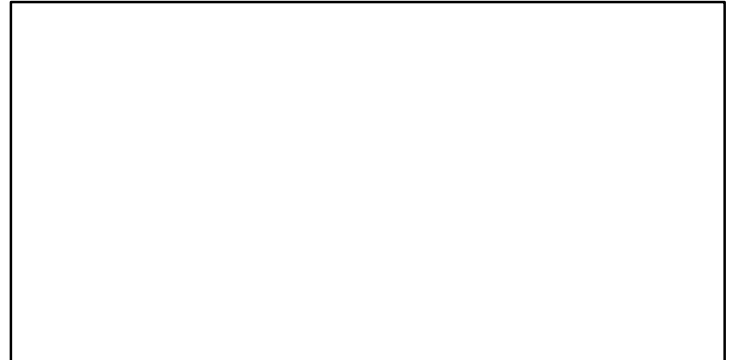
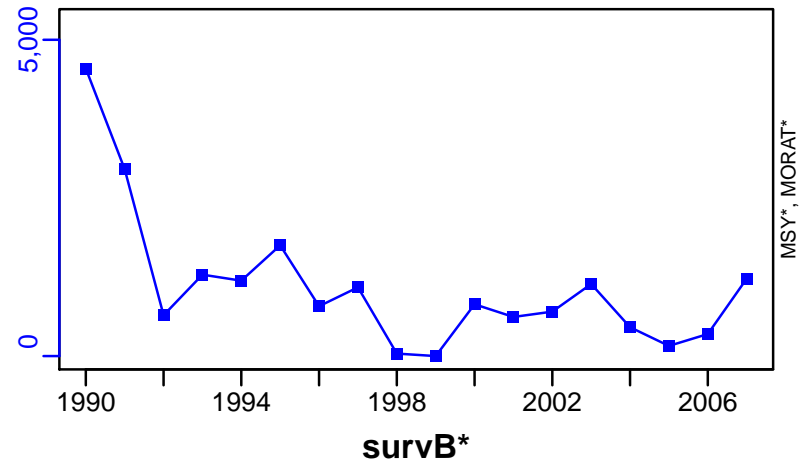
Recruits*



Octopus West Africa [OCTOWA]

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

TAC*, Cpair*, Cadv*



Spear squid Pacific Ocean [SPSQUIDPAC]

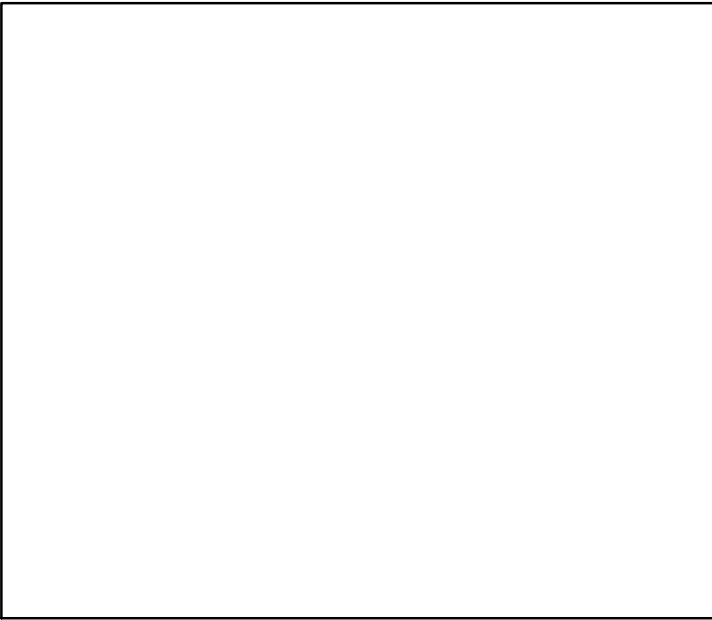
Metadata	
Scientific Name	Loligo bleekeri
Current Assess ID	FAFRFJ-SPSQUIDPAC-1978-2013-JPNIMP2016
Area	Pacific Ocean
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

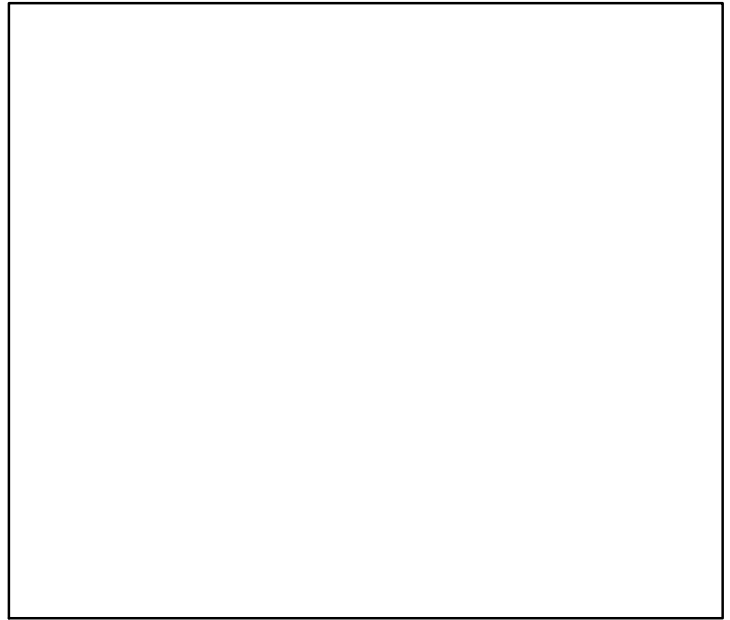
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	4250		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spear squid Pacific Ocean [SPSQUIDPAC]

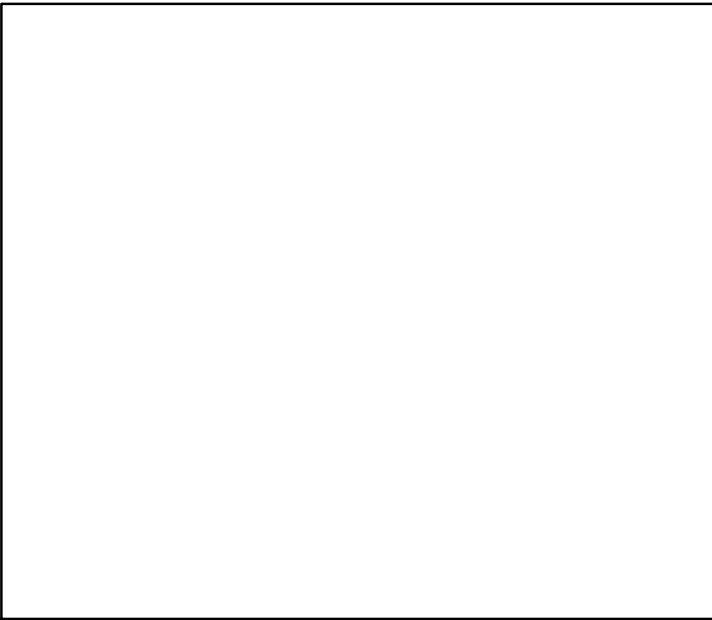
Kobe MSY*



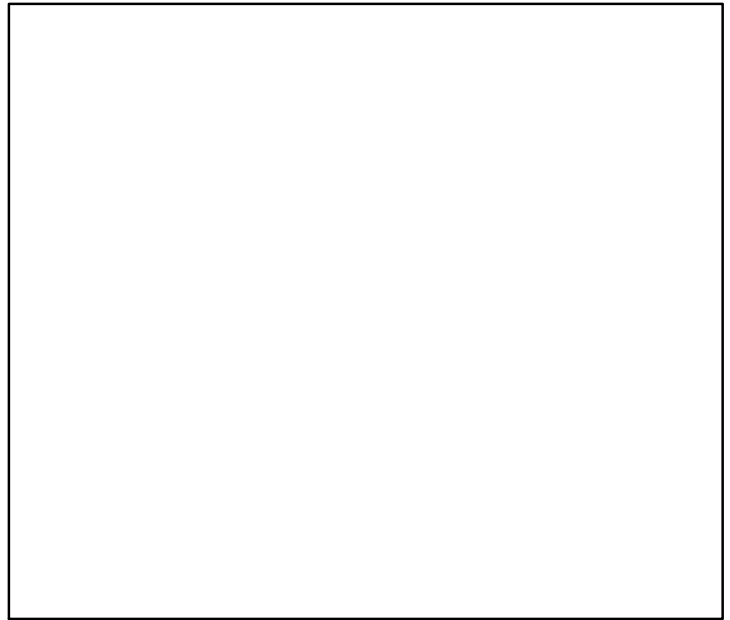
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Spear squid Pacific Ocean [SPSQUIDPAC]

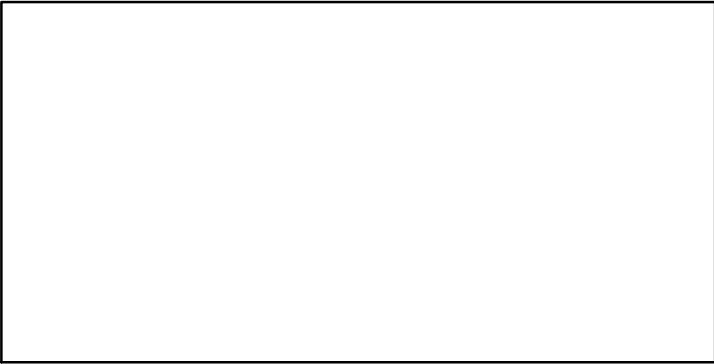
TB*



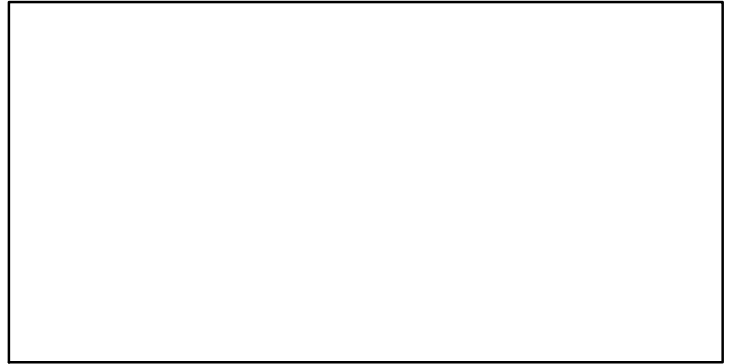
SSB*



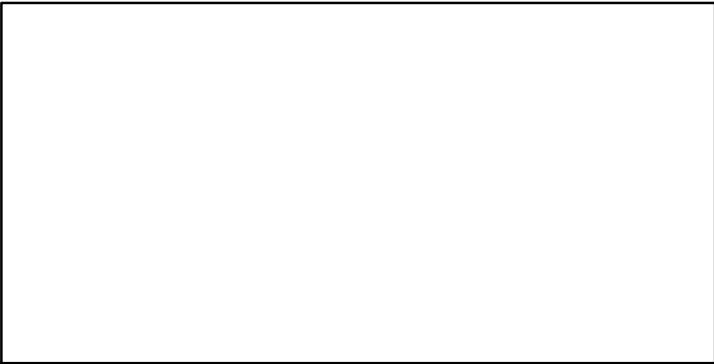
TN *



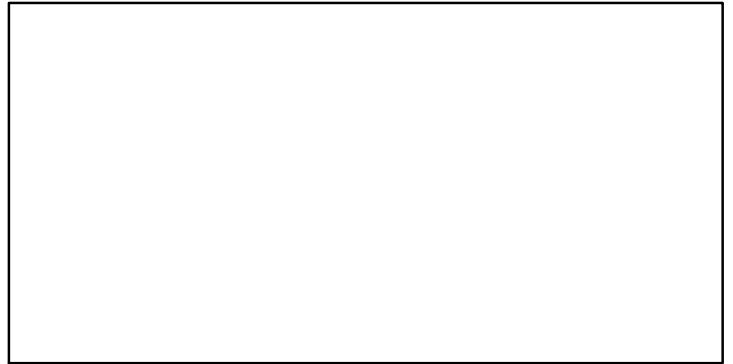
F*



ER*



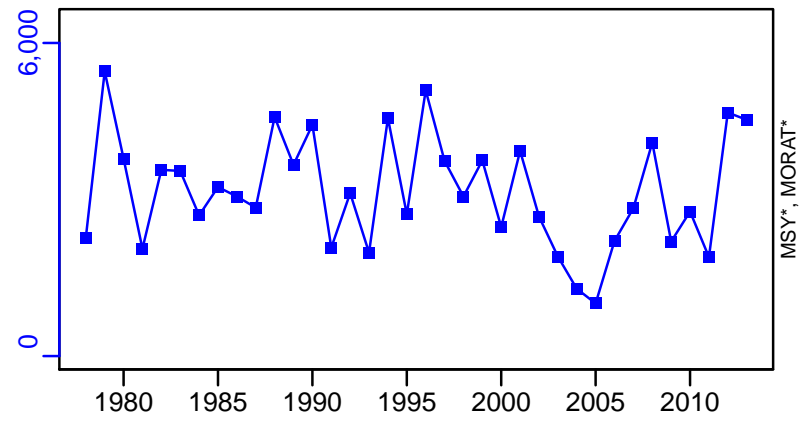
Recruits*



Spear squid Pacific Ocean [SPSQUIDPAC]

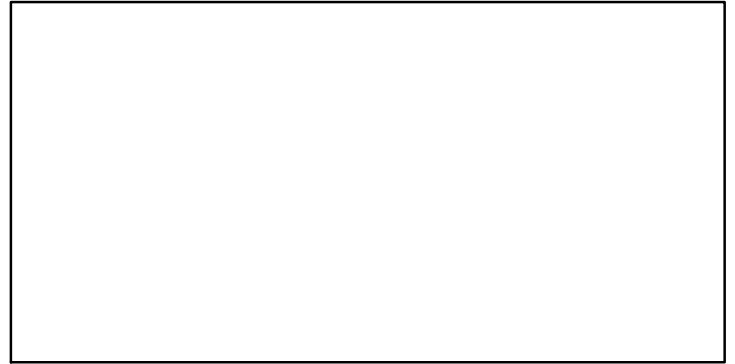
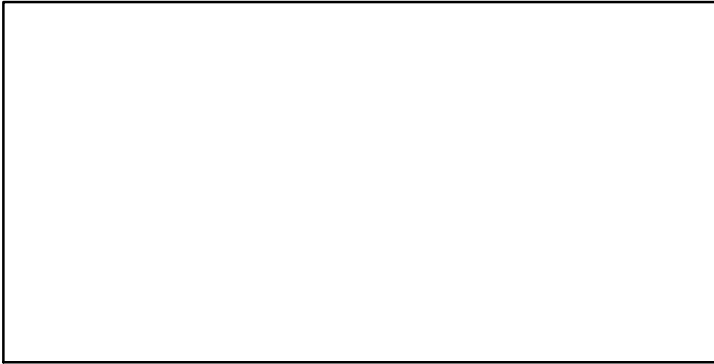
TC-MT, TL*, RecC* (1978-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



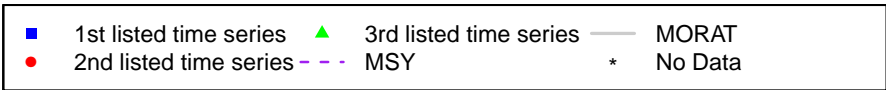
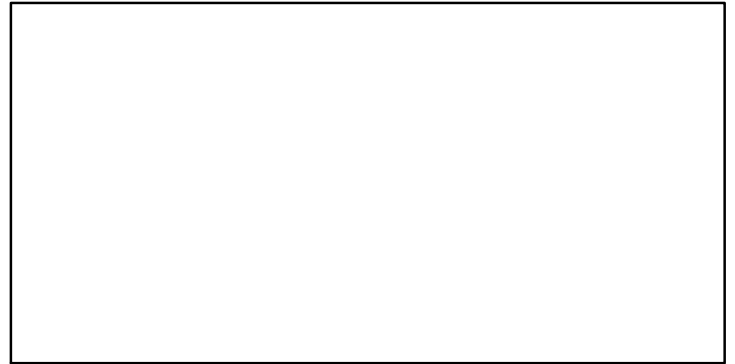
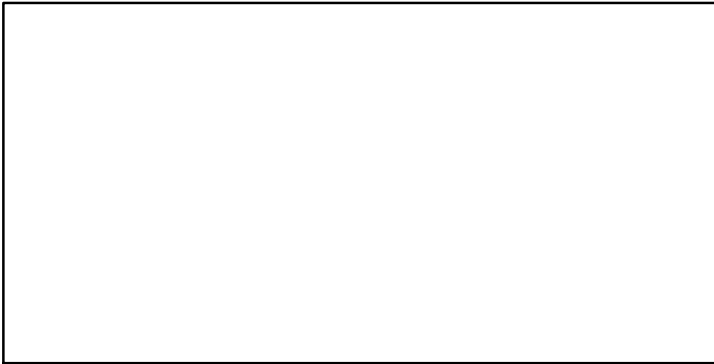
survB*

CPUE*



EFFORT*

CdivMSY*



Spear squid Tsushima warm current [SPSQUIDTSSTWC]

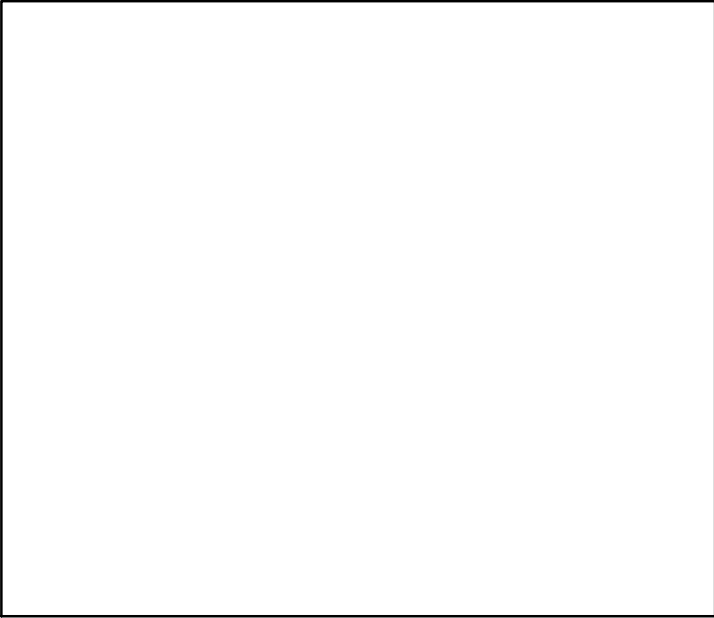
Metadata	
Scientific Name	Loligo bleekeri
Current Assess ID	FAFRFJ-SPSQUIDTSSTWC-1990-2013-JPNIMP2016
Area	Tsushima warm current
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

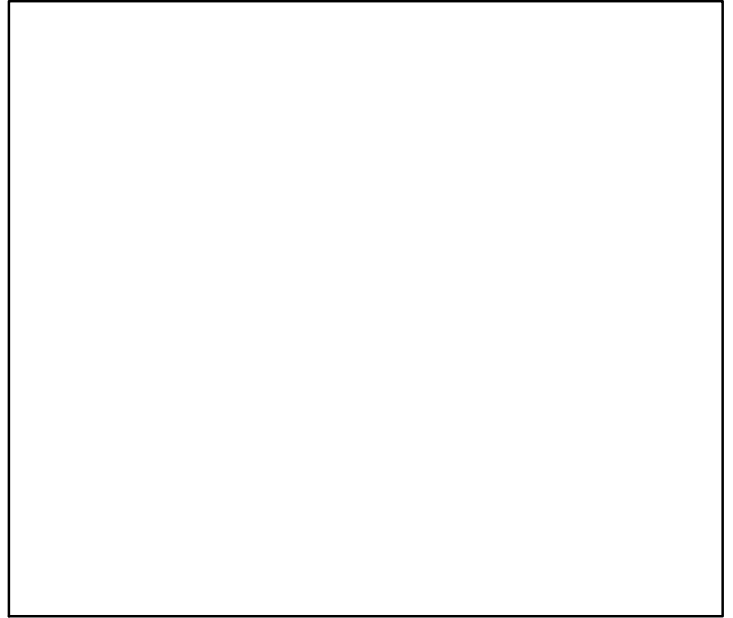
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2700		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spear squid Tsushima warm current [SPSQUIDTSSTWC]

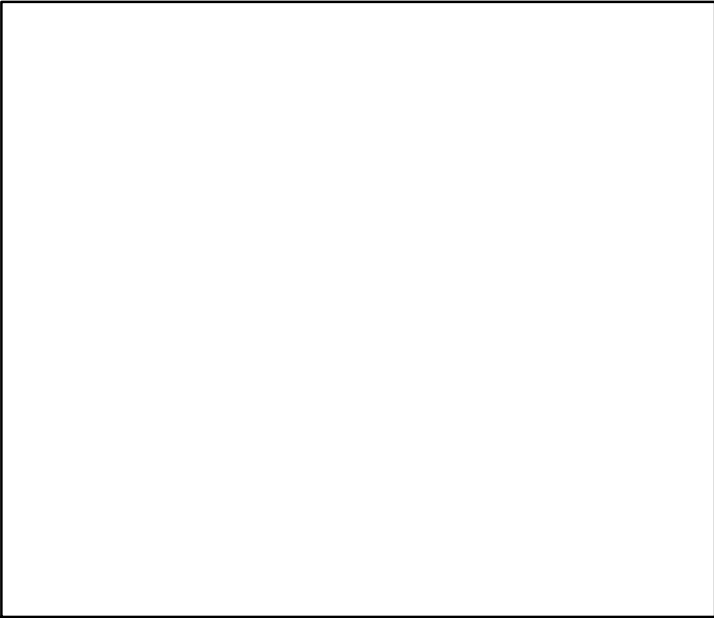
Kobe MSY*



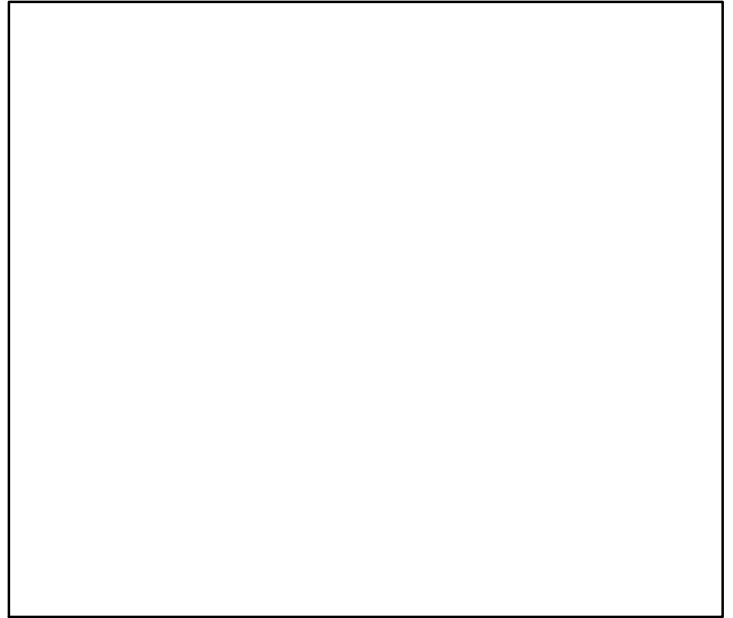
Kobe MGT*



Spawner Recruit*



Production*



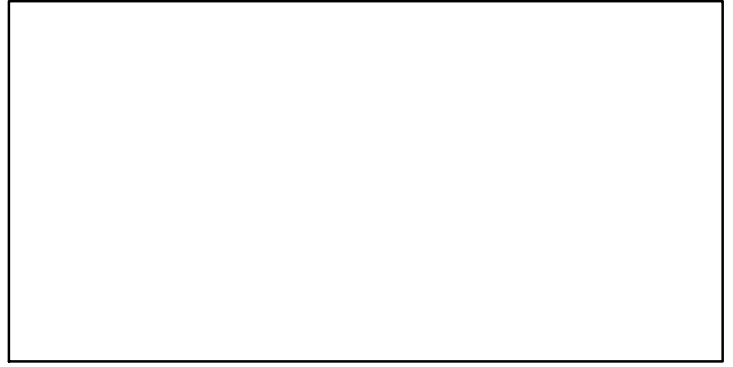
◆ Start Year ◆ End Year * No Data

Spear squid Tsushima warm current [SPSQUIDTSSTWC]

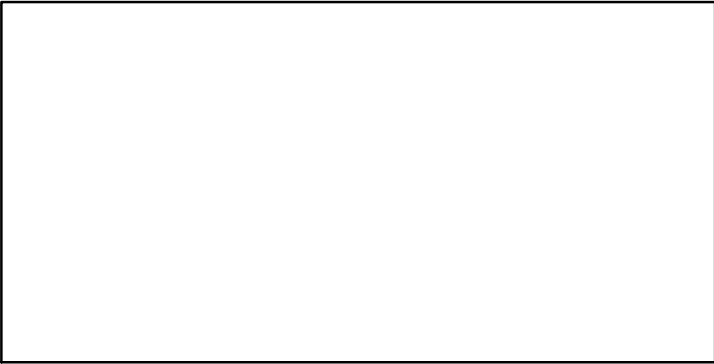
TB*



SSB*



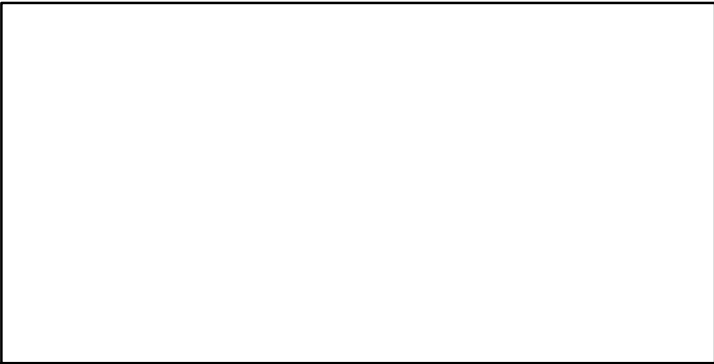
TN *



F*



ER*



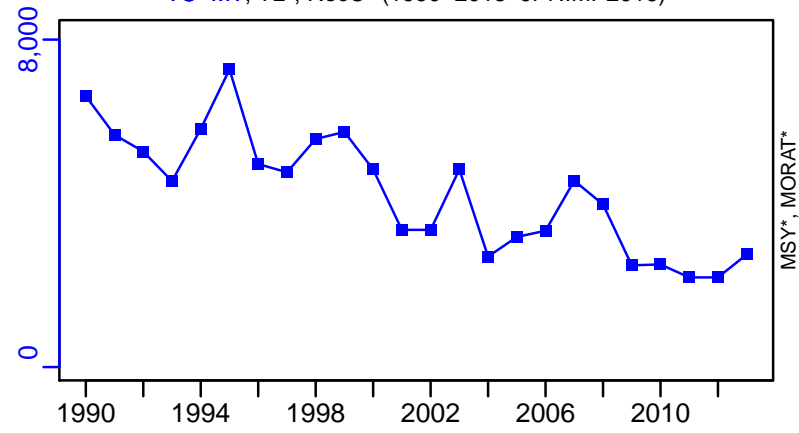
Recruits*



Spear squid Tsushima warm current [SPSQUIDTSSTWC]

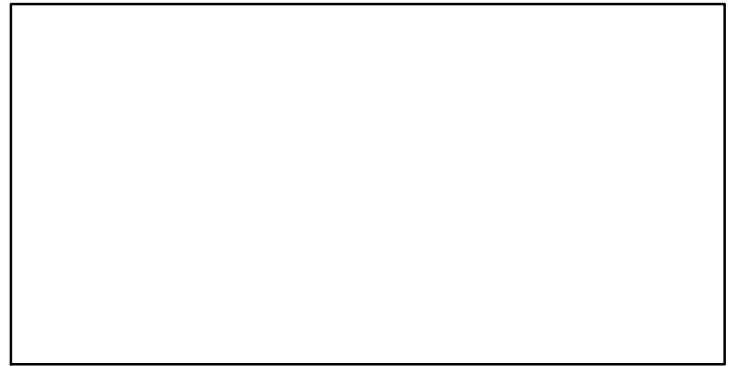
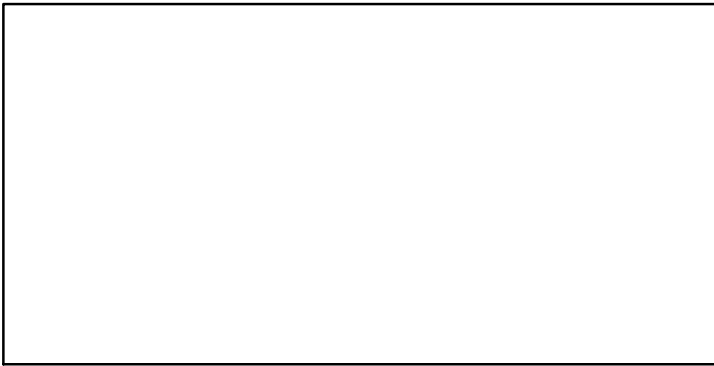
TC-MT, TL*, RecC* (1990-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



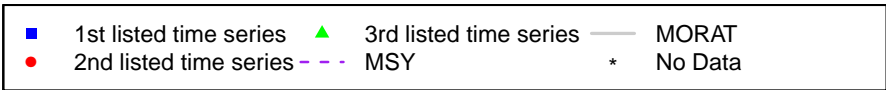
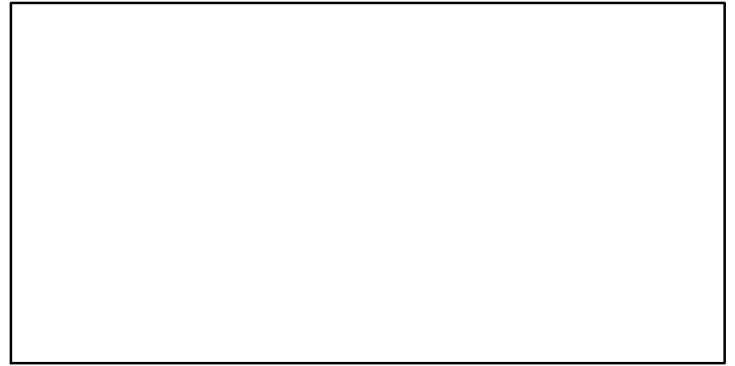
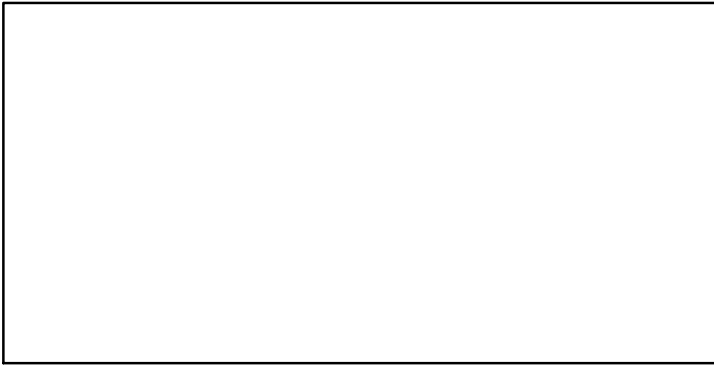
survB*

CPUE*



EFFORT*

CdivMSY*



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

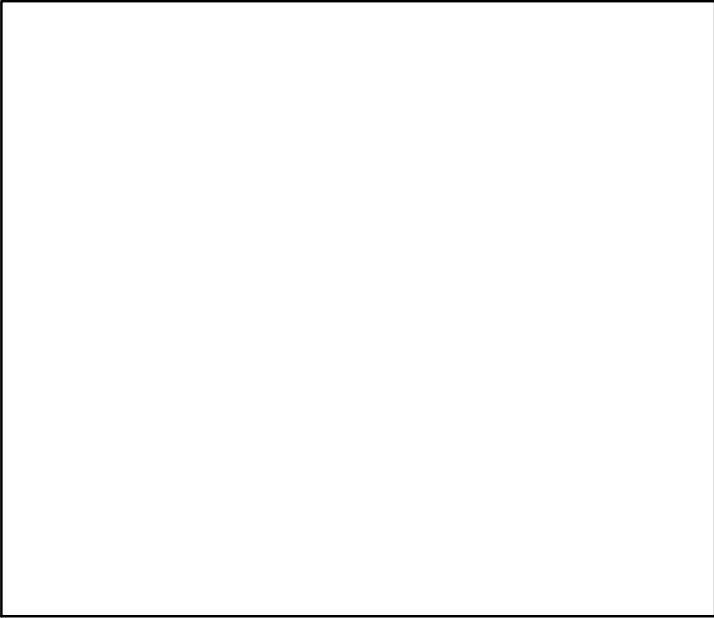
Metadata	
Scientific Name	Uroteuthis edulis
Current Assess ID	FAFRFJ-STSQUIDSOJECS-1988-2013-JPNIMP2016
Area	Sea of Japan and East China Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

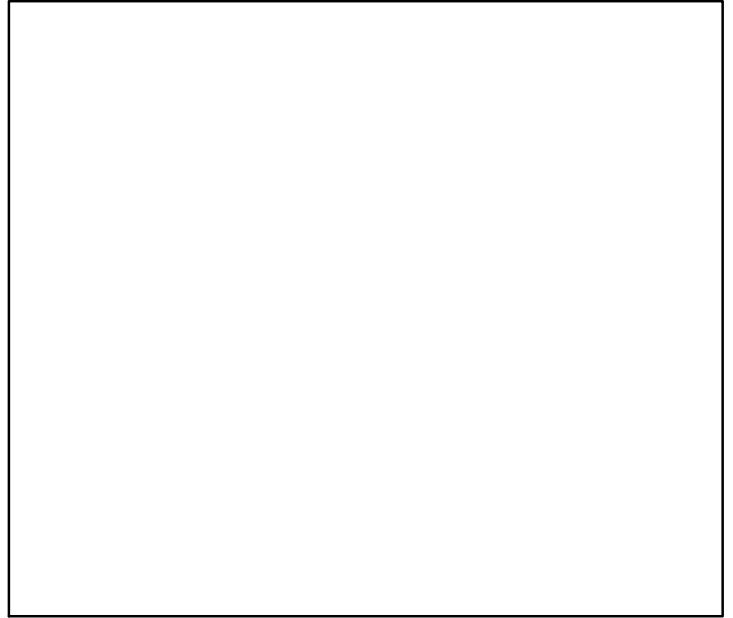
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	9220		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

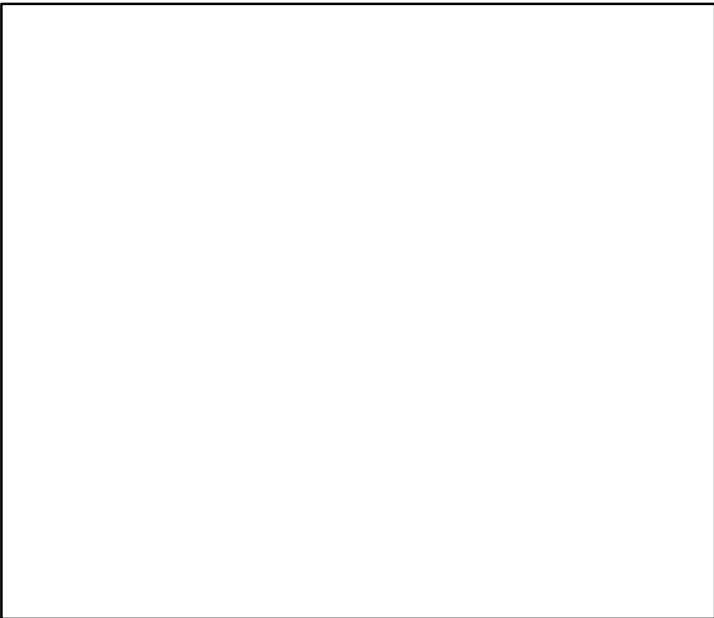
Kobe MSY*



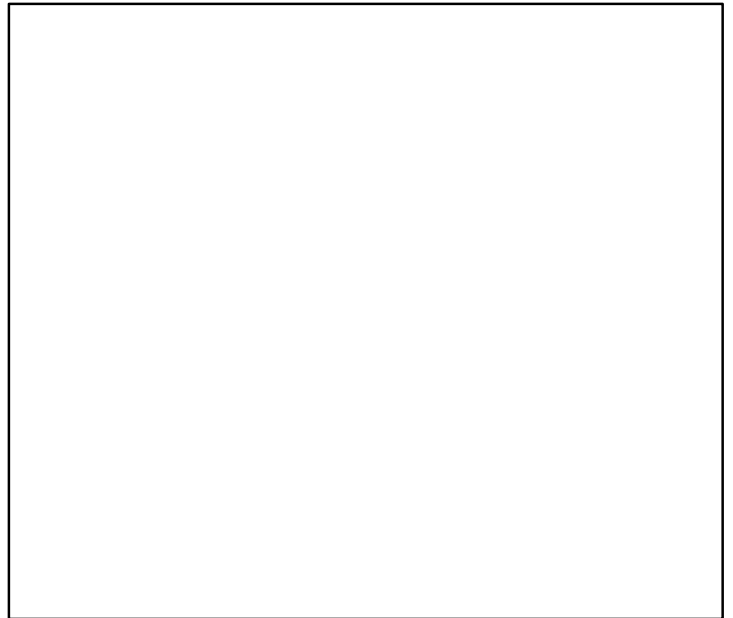
Kobe MGT*



Spawner Recruit*



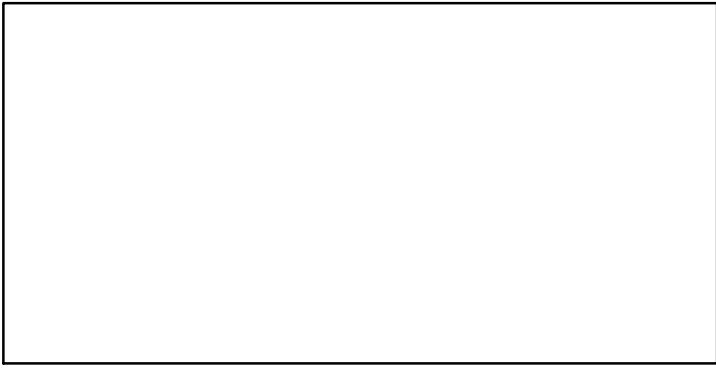
Production*



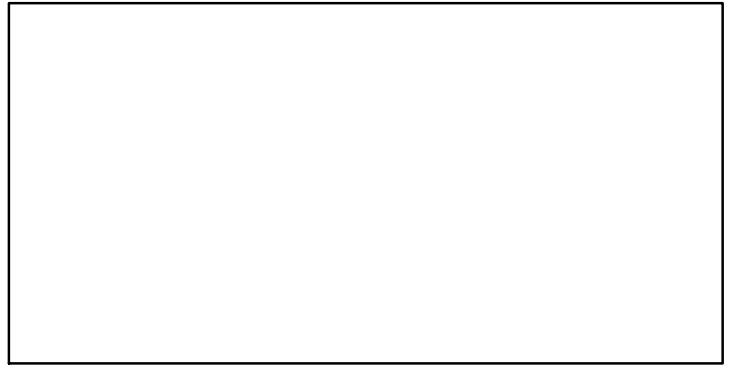
◆ Start Year ◆ End Year * No Data

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

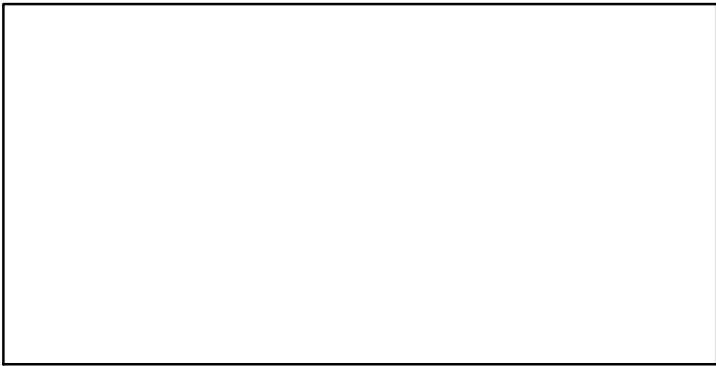
TB*



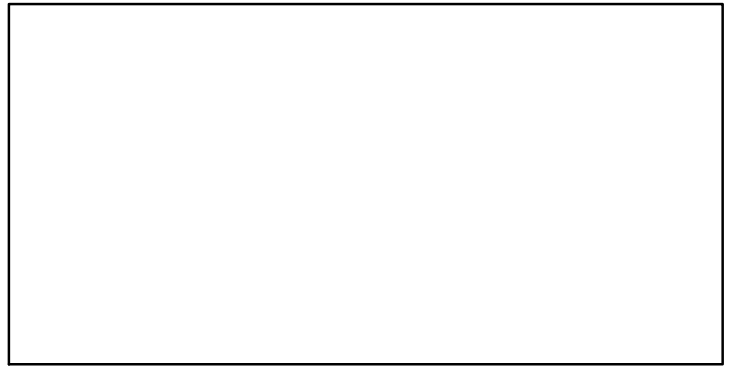
SSB*



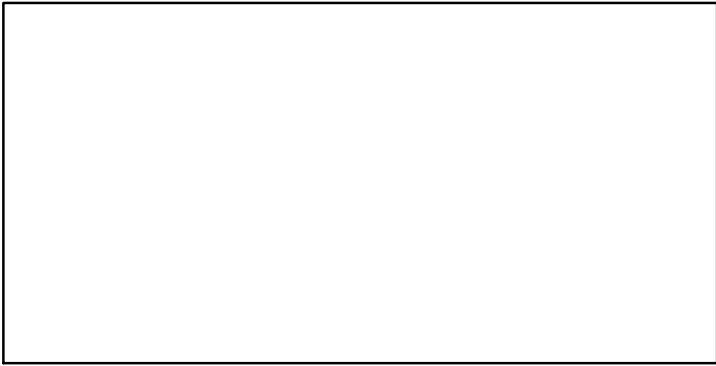
TN *



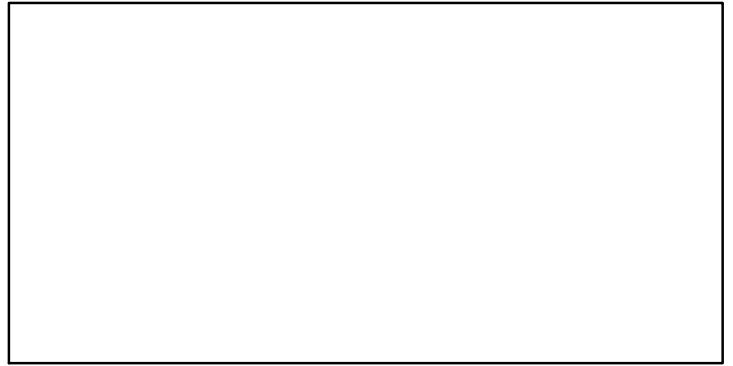
F*



ER*



Recruits*



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

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

TAC*, Cpair*, Cadv*

