

Russia Japan Stocks

v4.25 (Dec-14-2017)

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28. Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]
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35. Kichiji rockfish North Pacific [KCROCKNPAC]
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37. Kichiji rockfish Southwestern coast of Hokkaido [KCROCKSWHOKK]
38. Longfin codling Pacific Ocean [LCODLINGPAC]
39. Largehead hairtail Sea of Japan and East China Sea [LHAIRTSOJECS]
40. Lavender jobfish Okinawa Islands [LJOBOKWI]
41. Japanese flounder East China Sea [OFLOUNECS]
42. Japanese flounder Sea of Japan North [OFLOUNNSJ]
43. Japanese flounder Pacific Ocean [OFLOUNPAC]
44. Japanese flounder Inland Sea of Japan [OFLOUNSETO]
45. Pacific cod Hokkaido [PCODHOKK]
46. Pacific cod North Pacific [PCODNPAC]
47. Pacific cod Sea of Japan [PCODSOJ]
48. Pointhead flounder North coast of Hokkaido [PHFLOUNNHOKK]
49. Pointhead flounder Sea of Japan [PHFLOUNSOJ]
50. Japanese sardine Pacific Coast of Japan [PILCHPJPN]

51. Japanese sardine Tsushima Strait [PILCHTSST]
52. Pacific sand lance Ise and Mikawa Bay [PSANDLIMKB]
53. Pacific sand lance Souya Strait [PSLANCESYS]
54. Red seabream East China Sea [RBRMECS]
55. Red seabream Inland Sea of Japan (East) [RBRMSETOE]
56. Red seabream Inland Sea of Japan (West) [RBRMSETOW]
57. Round herring Pacific Ocean [RHERRPAC]
58. Round herring Tsushima Strait [RHERRTSST]
59. Round-nose flounder Sea of Japan [RSFLOUNSOJ]
60. Roughscale sole North Pacific [RSSOLENPAC]
61. Pacific saury Northwest Pacific [SAURNWPAC]
62. Shako Ise and Mikawa Bay [SHAKOIMKB]
63. Snow crab Sea of Japan East [SNOWCRABESJ]
64. Snow crab Hokkaido [SNOWCRABHOKK]
65. Snow crab North Pacific [SNOWCRABNPAC]
66. Snow crab Okhotsk Sea [SNOWCRABOKS]
67. Snow crab Sea of Japan West [SNOWCRABWSJ]
68. Japanese Spanish mackerel East China Sea [SPANMACKECS]
69. Japanese Spanish mackerel Inland Sea of Japan [SPANMACKSETO]
70. Spear squid Pacific Ocean [SPSQUIDPAC]
71. Spear squid Tsushima warm current [SPSQUIDTSSTWC]
72. Sailfin sandfish Sea of Japan North [SSANDNSJ]
73. Sailfin sandfish Sea of Japan West [SSANDWSJ]
74. Swordtip squid Sea of Japan and East China Sea [STSQUIDSOJECS]
75. Willowy flounder North Pacific [WLFLOUNNPAC]
76. Walleye Pollock Navarinsky [WPOLLNAVAR]
77. Walleye pollock Northern Sea of Okhotsk [WPOLLNSO]
78. Walleye pollock Western Bering Sea [WPOLLWBS]
79. Whitespotted conger Ise and Mikawa Bay [WSCONGIMKB]
80. Yellow goosefish North Pacific [YGSFISHNPAC]
81. Yellow striped flounder North coast of Hokkaido [YSFLOUNNHOKK]
82. Yellow striped flounder Sea of Japan [YSFLOUNSOJ]

Walleye pollock Nemuro Strait [APOLLNEMS]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	FAJ-APOLLNEMS-1981-2013-JPNIMP2016
Area	Nemuro Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	7720		
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*



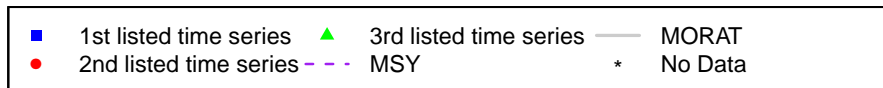
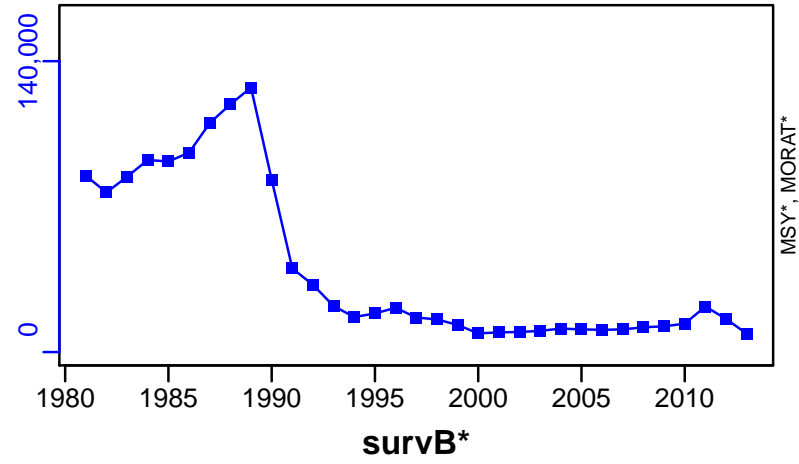
Recruits*



Walleye pollock Nemuro Strait [APOLLNEMS]

TC-MT, TL*, RecC* (1981-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



Walleye pollock Sea of Japan North [APOLLNSJ]

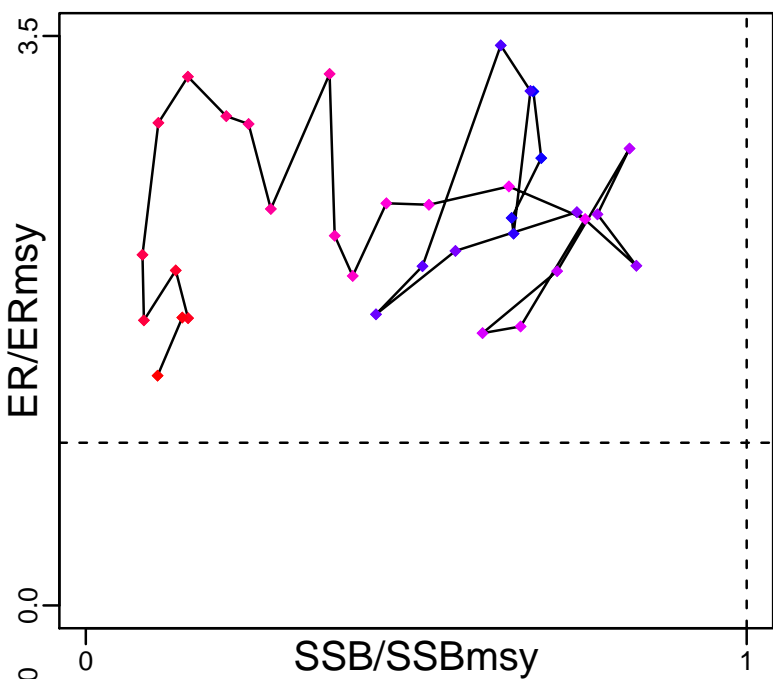
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	FAJ-APOLLNSJ-1970-2013-JPNIMP2016
Area	Sea of Japan North
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	346,887
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.07
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	45,207
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

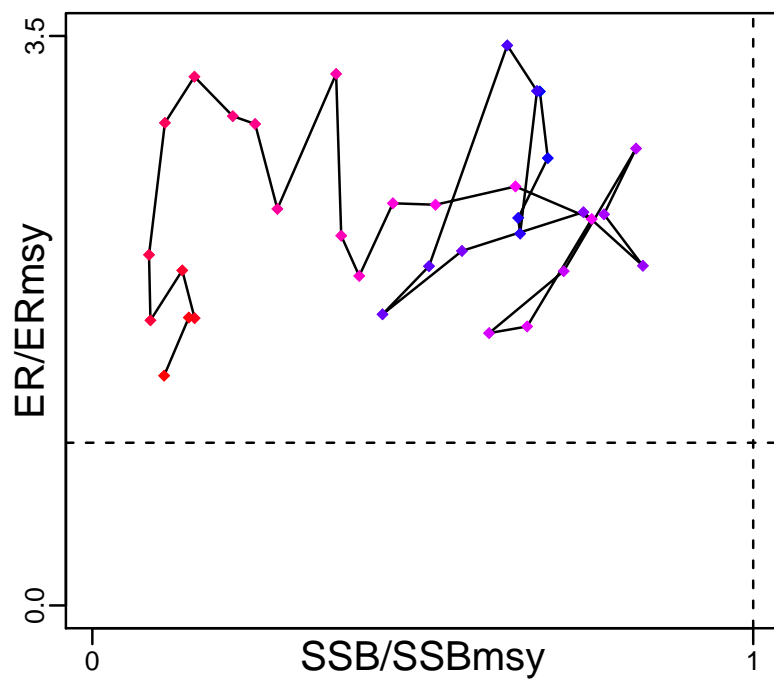
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	95,800	-	2
SSB	SSB-MT	2013	37,700	Both	4
TN	-	-	-	-	-
R	R-E00	2013	1.34×10^8	-	2
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	9870		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.11		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.41		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye pollock Sea of Japan North [APOLLNSJ]

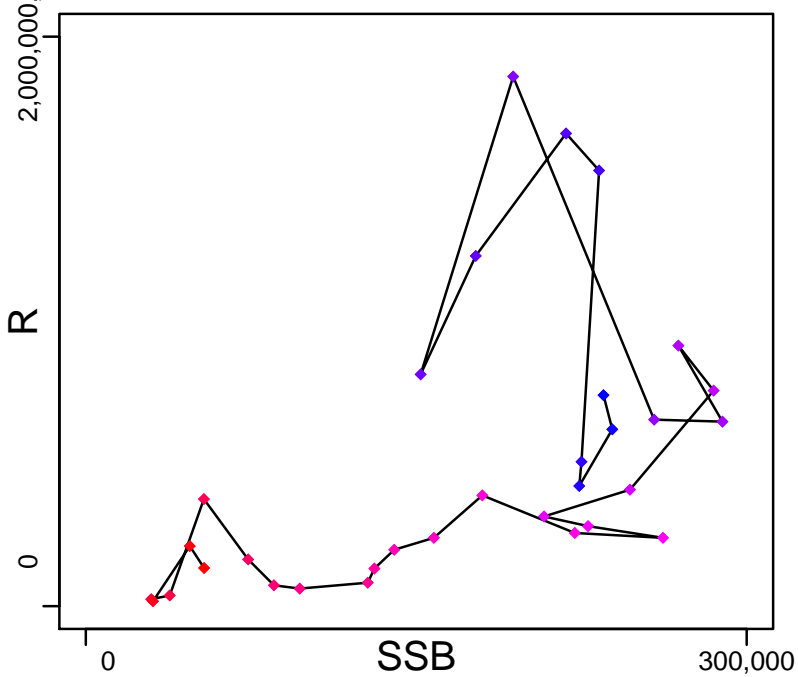
Kobe MSYpref (1970–2013–JPNIMP2016)



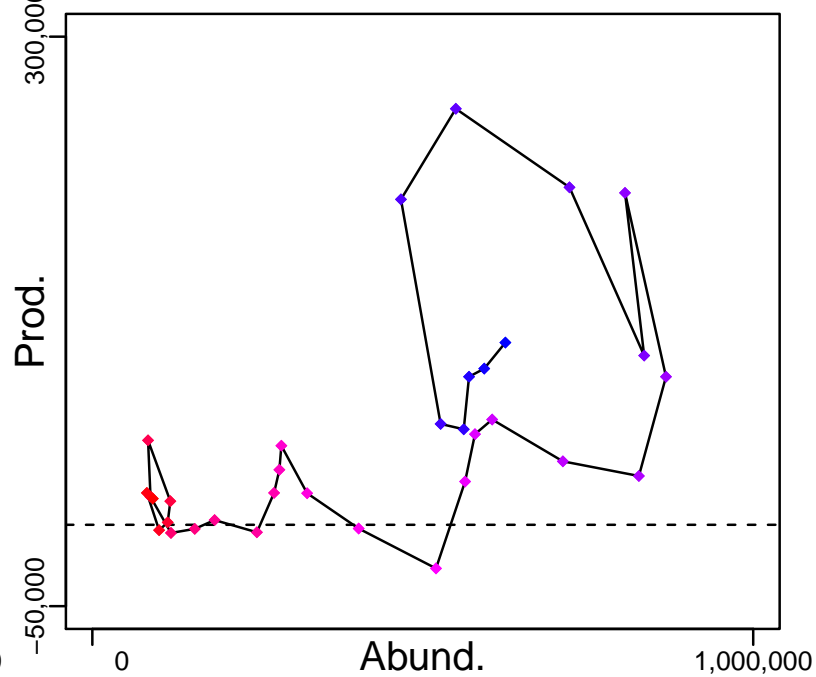
Kobe MGTpref (1970–2013–JPNIMP2016)



Spawner Recruit (1970–2013–JPNIMP2016)

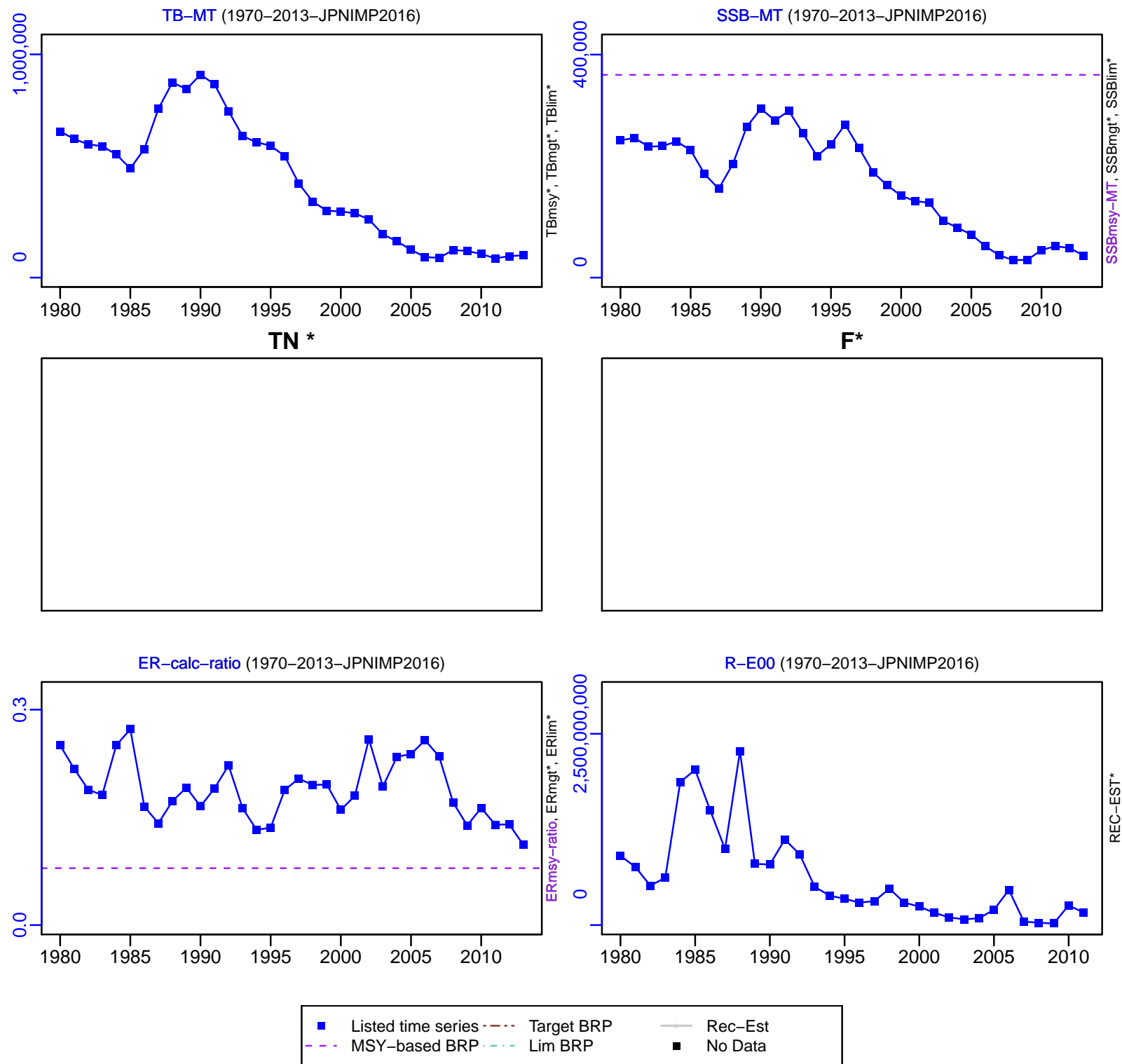


Production (1970–2013–JPNIMP2016)



◆ Start Year ◆ End Year * No Data

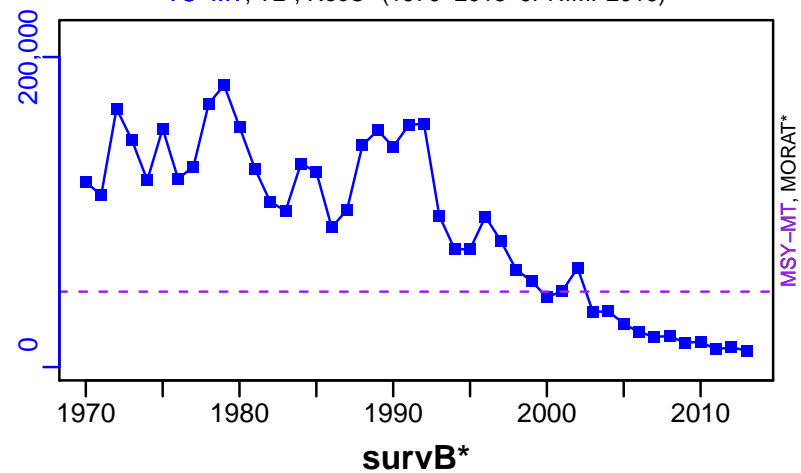
Walleye pollock Sea of Japan North [APOLLNSJ]



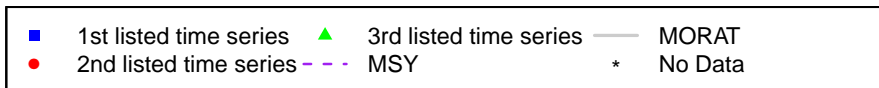
Walleye pollock Sea of Japan North [APOLLNSJ]

TC-MT, TL*, RecC* (1970-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Walleye pollock Okhotsk Sea [APOLLOKS]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	FAJ-APOLLOKS-1980-2013-JPNIMP2016
Area	Okhotsk Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	36,400		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Walleye pollock Okhotsk Sea [APOLLOKS]

TB*



SSB*



TN *



F*



ER*



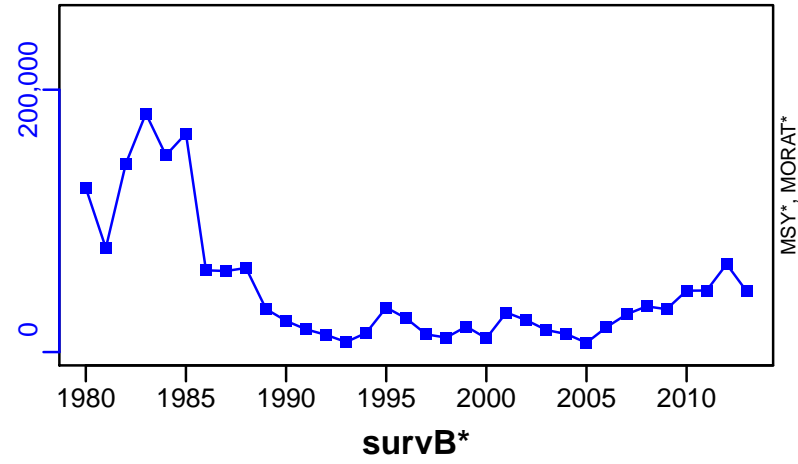
Recruits*



Walleye pollock Okhotsk Sea [APOLLOKS]

TC-MT, TL*, RecC* (1980–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Walleye pollock Pacific Coast of Japan [APOLLPJPN]

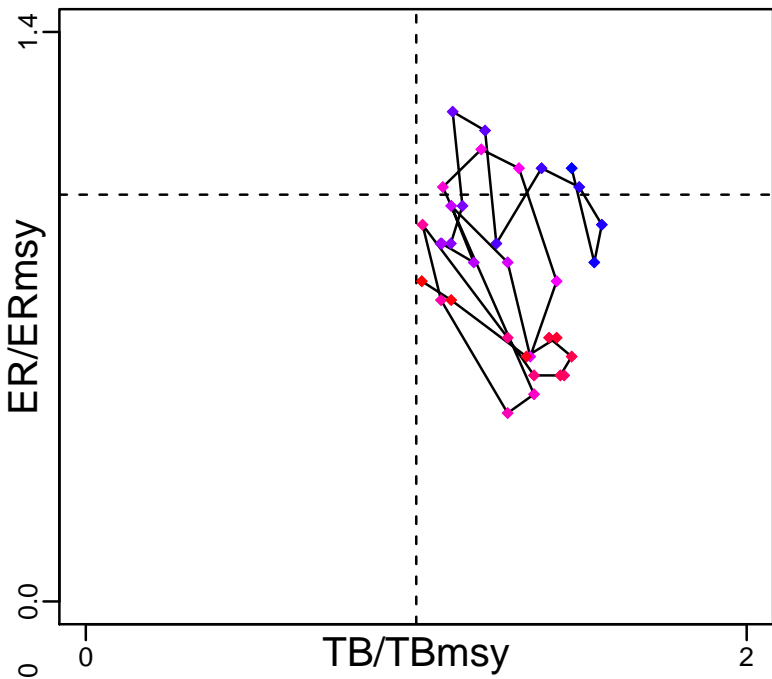
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	FAJ-APOLLPJPN-1975-2013-JPNIMP2016
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	877,307
SSBmsy	SSBmsy-MT	2013	206,052
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.17
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	176,348
M	M-1/yr	2014	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

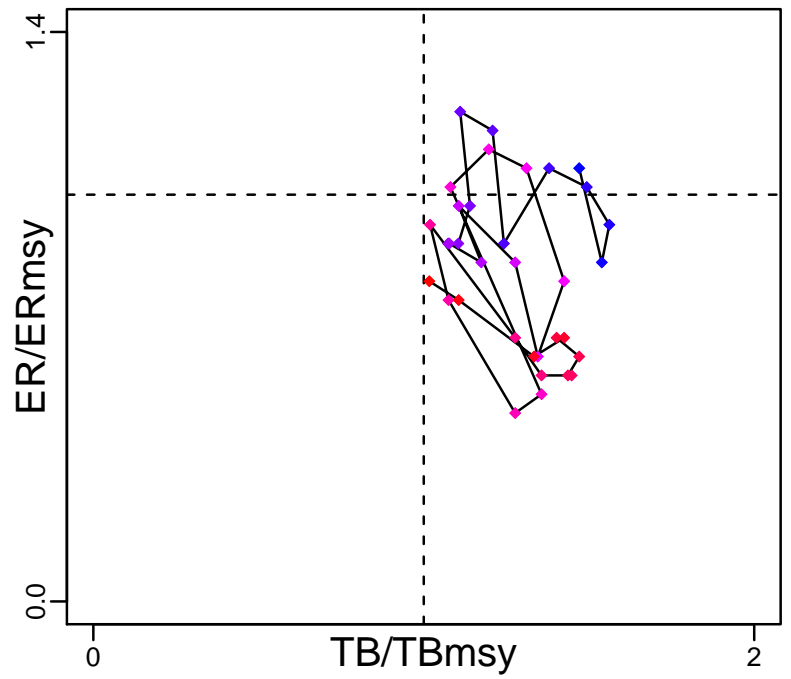
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	892,000	Both	0+
SSB	SSB-MT	2014	397,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	1.57×10^9	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	155,000		
TL	TL-MT	2014	155,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.02		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.52		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.99		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye pollock Pacific Coast of Japan [APOLLJPN]

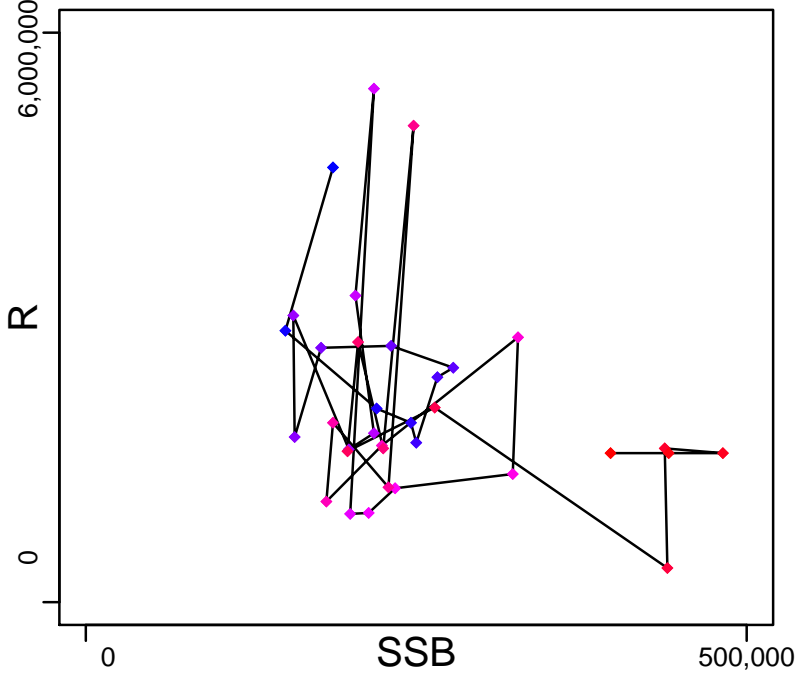
Kobe MSYpref (1975–2014–KUROTA)



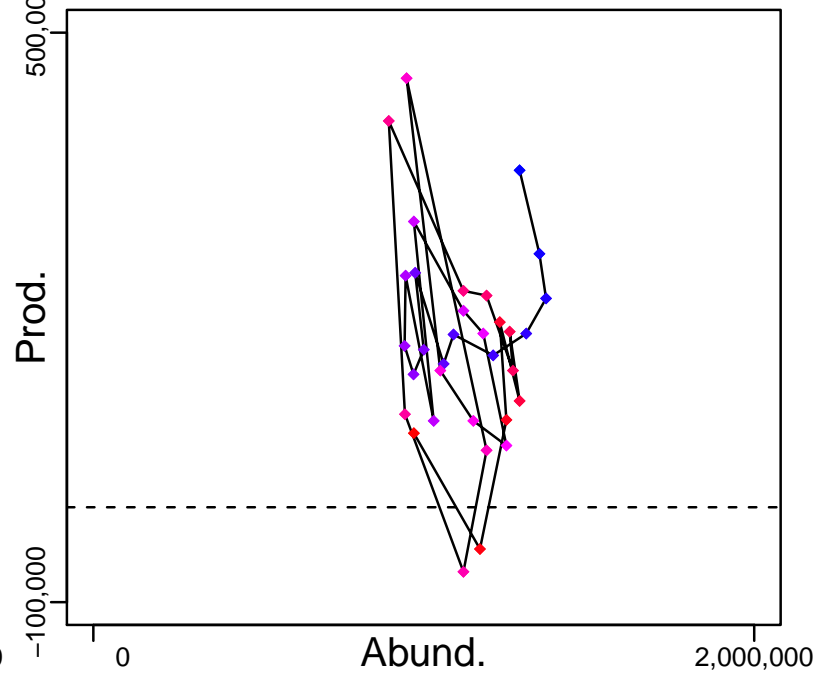
Kobe MGTpref (1975–2014–KUROTA)



Spawner Recruit (1975–2014–KUROTA)



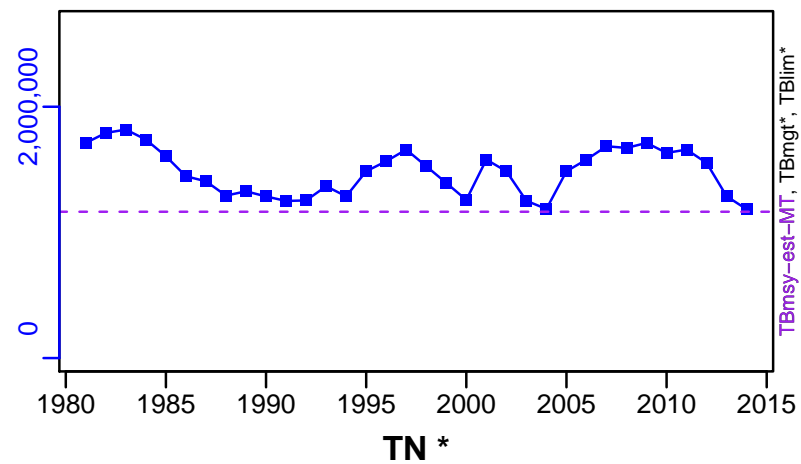
Production (1975–2014–KUROTA)



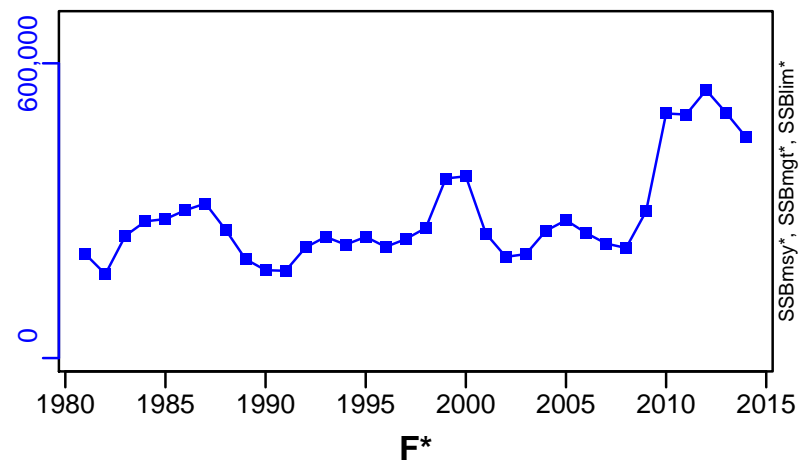
◆ Start Year ◆ End Year * No Data

Walleye pollock Pacific Coast of Japan [APOLLPJPN]

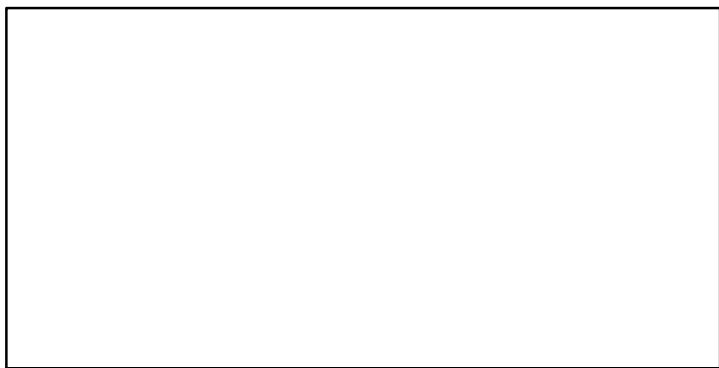
TB-MT (1975-2014-KUROTA)



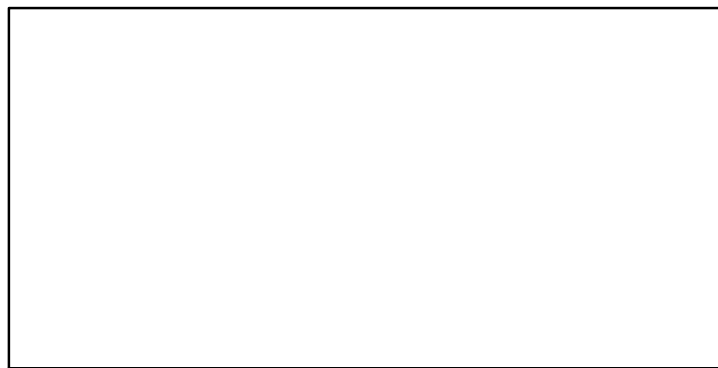
SSB-MT (1975-2014-KUROTA)



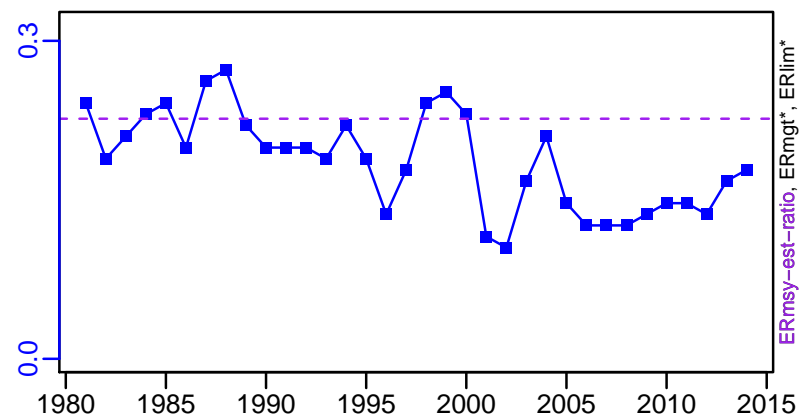
TN *



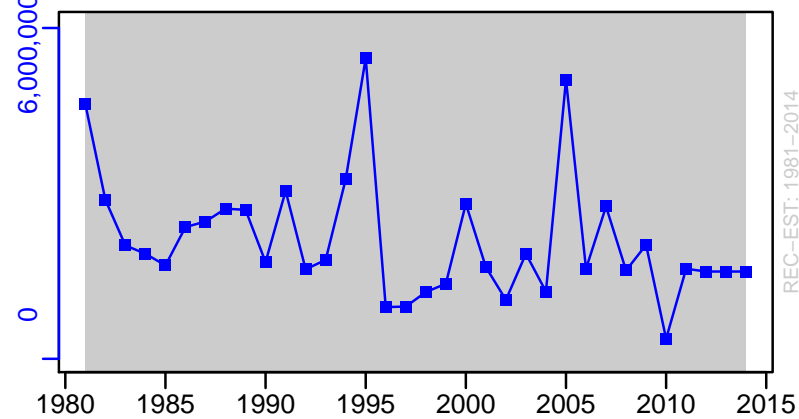
F*



ER-ratio (1975-2014-KUROTA)

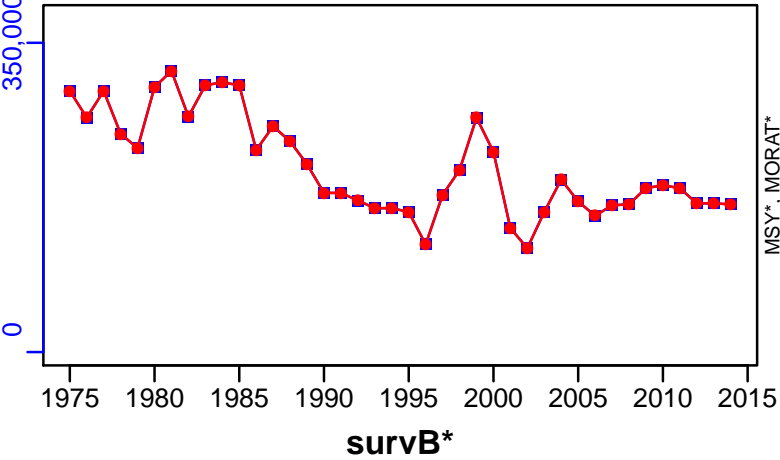


R-E00 (1975-2014-KUROTA)



Walleye pollock Pacific Coast of Japan [APOLLPJPN]

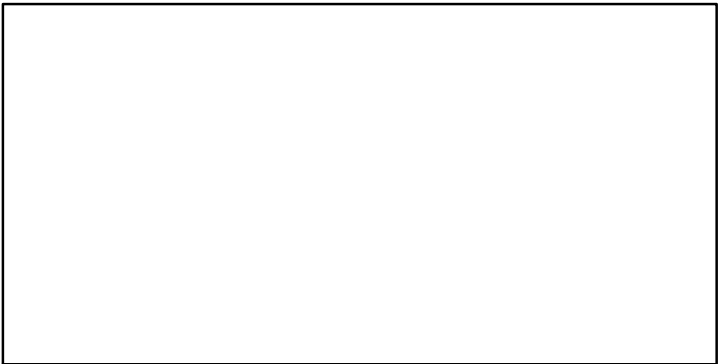
TC-MT, TL-MT, RecC* (1975-2014-KUROTA)



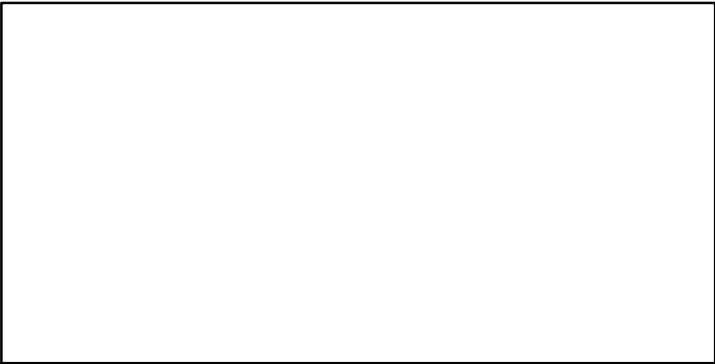
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*

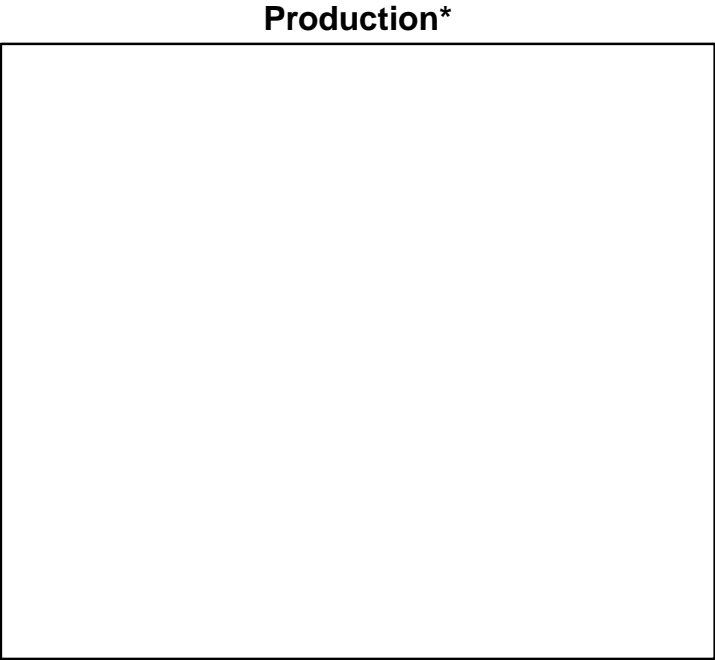
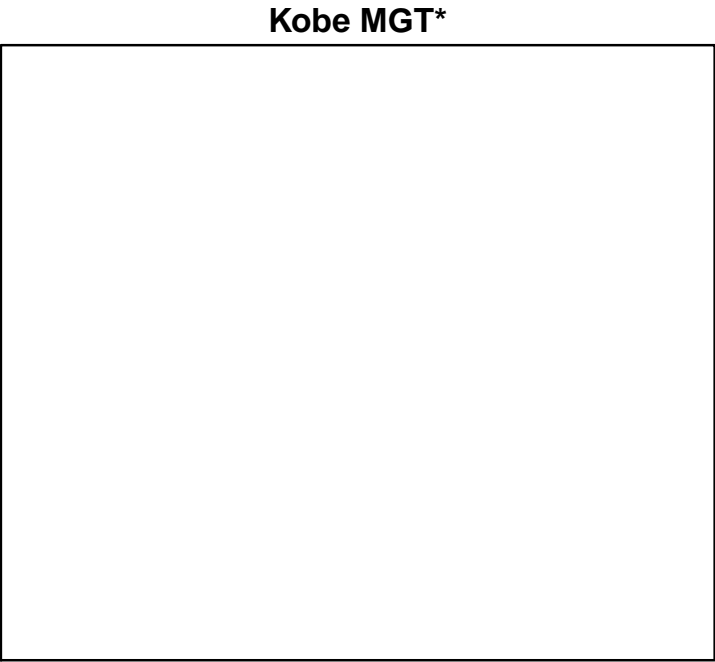


Alaskan pink shrimp Sea of Japan [APSHRIMPSOJ]

Metadata	
Scientific Name	Pandalus eous
Current Assess ID	FAJ-APSHRIMPSOJ-1985-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	1730		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Alaskan pink shrimp Sea of Japan [APSHRIMPSOJ]

TB*



SSB*



TN *



F*



ER*



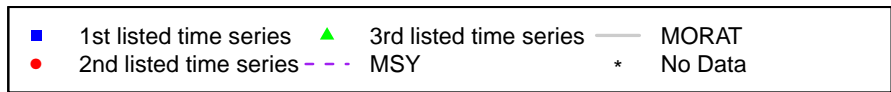
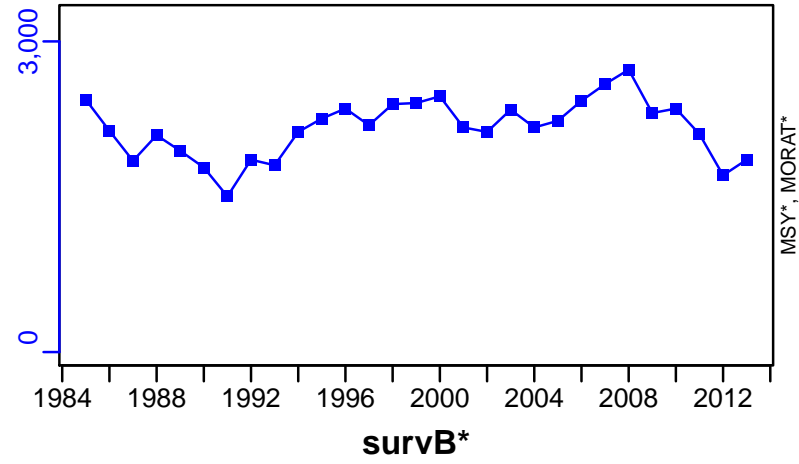
Recruits*



Alaskan pink shrimp Sea of Japan [APSHRIMPSOJ]

TC-MT, TL*, RecC* (1985–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



Arabesque greenling Nemuro Strait [ARGREENNEMS]

Metadata	
Scientific Name	Pleurogrammus azonus
Current Assess ID	FAJ-ARGREENNEMS-1985-2013-JPNIMP2016
Area	Nemuro Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	4090		
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*



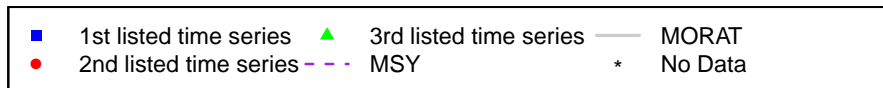
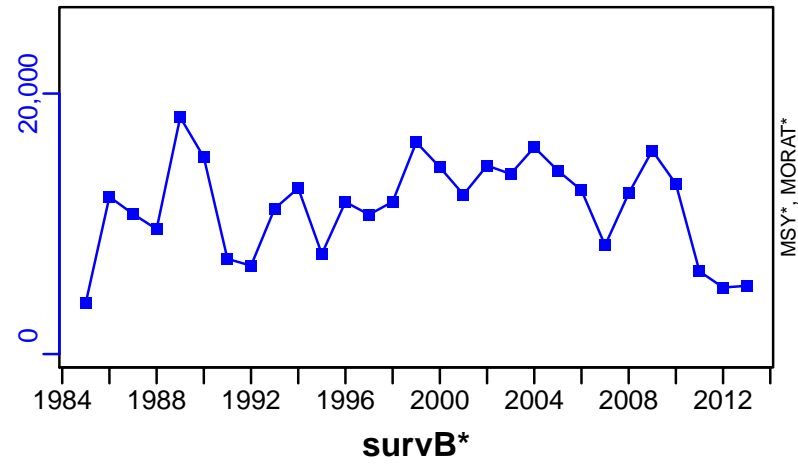
Recruits*



Arabesque greenling Nemuro Strait [ARGREENNEMS]

TC-MT, TL*, RecC* (1985–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



Arabesque greenling North coast of Hokkaido [ARGREENNHOKK]

Metadata	
Scientific Name	Pleurogrammus azonus
Current Assess ID	FAJ-ARGREENNHOKK-1980-2013-JPNIMP2016
Area	North coast of Hokkaido
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

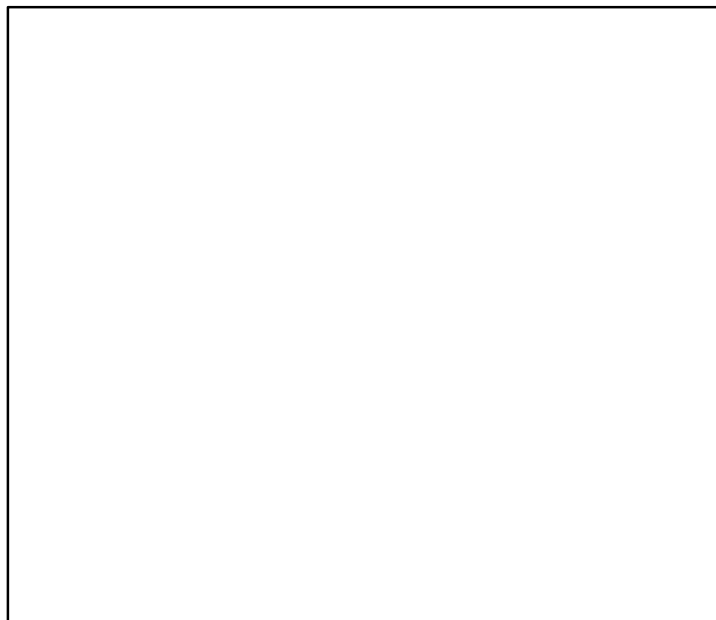
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	46,300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



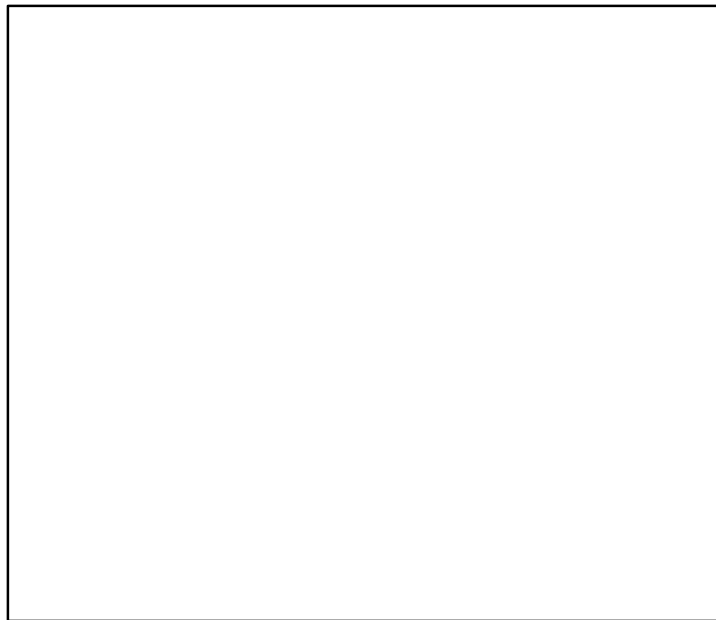
Kobe MGT*



Spawner Recruit*



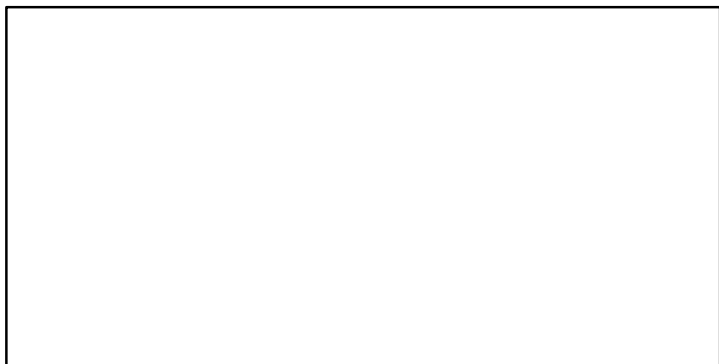
Production*



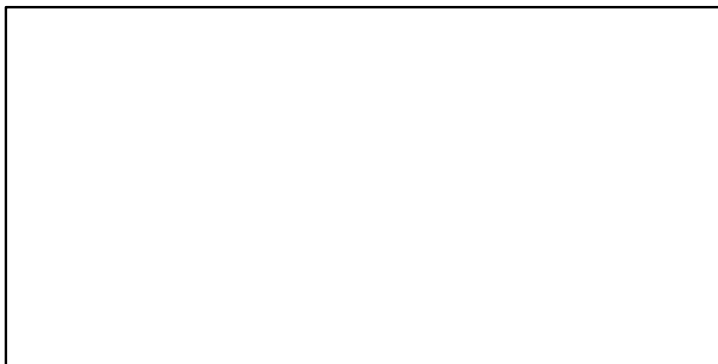
◆ Start Year ◆ End Year * No Data

Arabesque greenling North coast of Hokkaido [ARGREENNHOKK]

TB*



SSB*



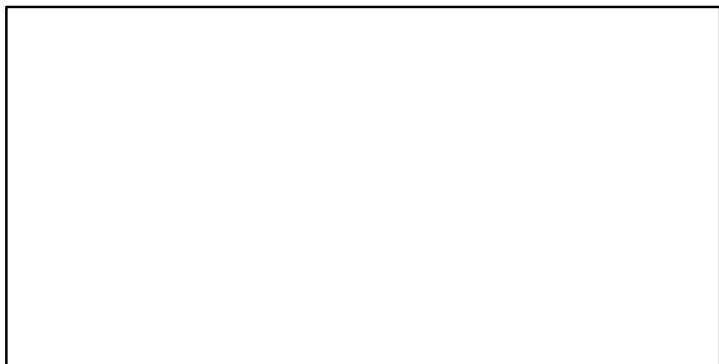
TN *



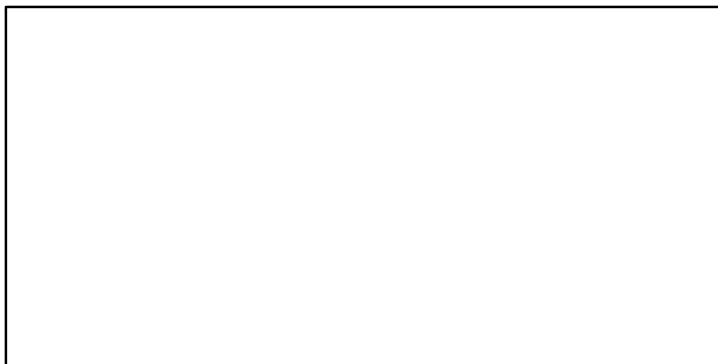
F*



ER*



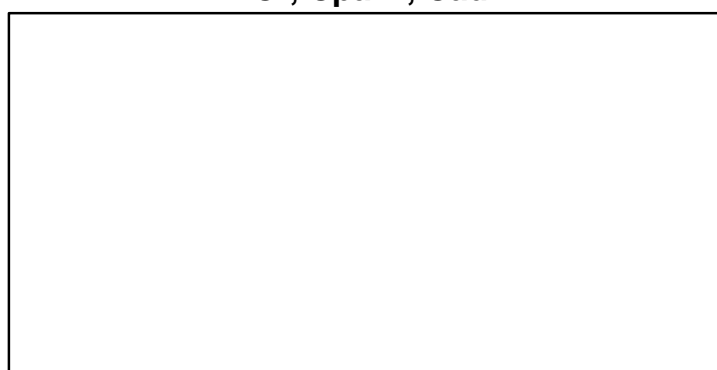
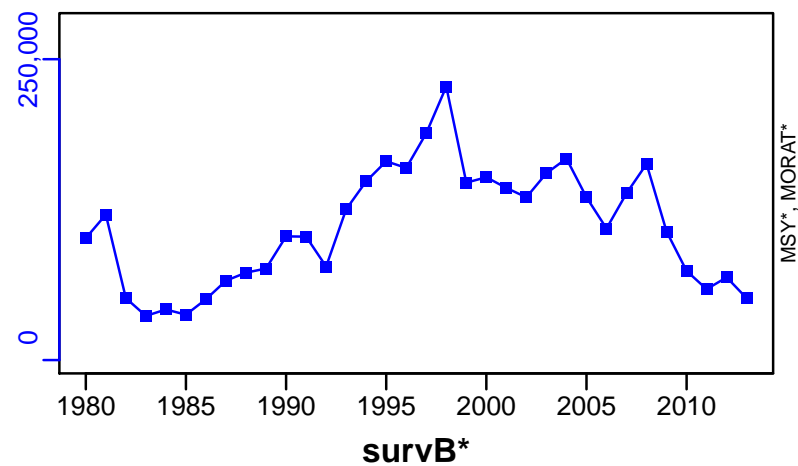
Recruits*



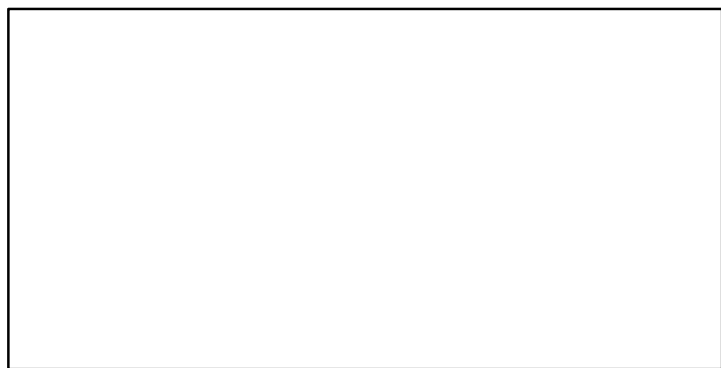
Arabesque greenling North coast of Hokkaido [ARGREENNHOKK]

TC-MT, TL*, RecC* (1980–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Arabesque greenling South coast of Hokkaido [ARGREENSHOKK]

Metadata	
Scientific Name	Pleurogrammus azonus
Current Assess ID	FAJ-ARGREENSHOKK-1975-2013-JPNIMP2016
Area	South coast of Hokkaido
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

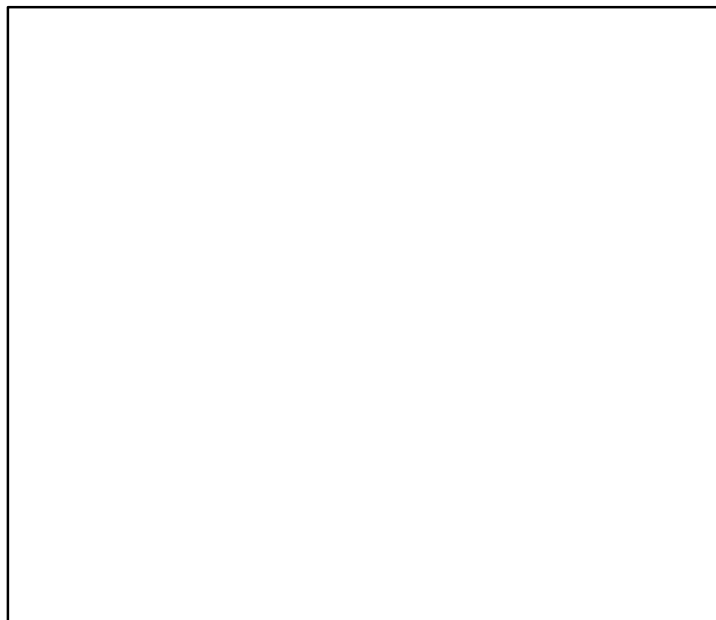
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



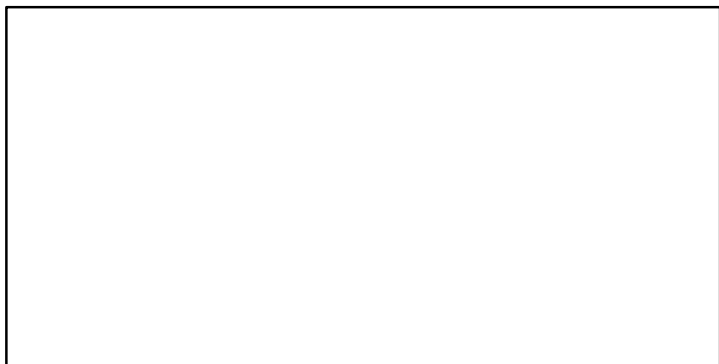
Production*



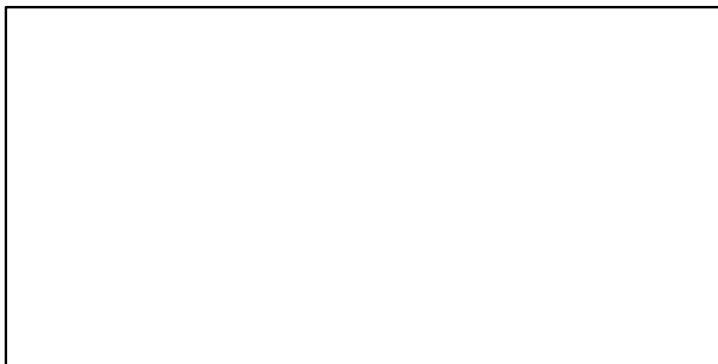
◆ Start Year ◆ End Year * No Data

Arabesque greenling South coast of Hokkaido [ARGREENSHOKK]

TB*



SSB*



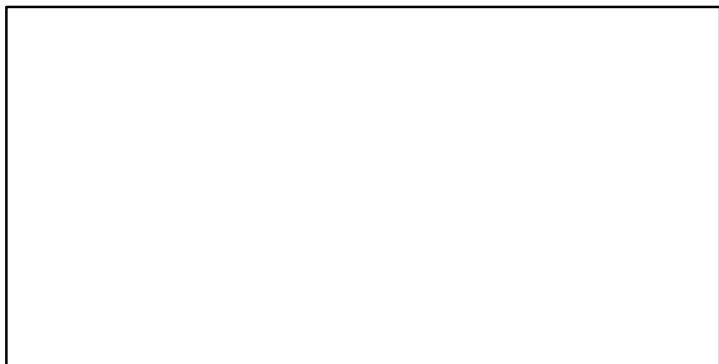
TN *



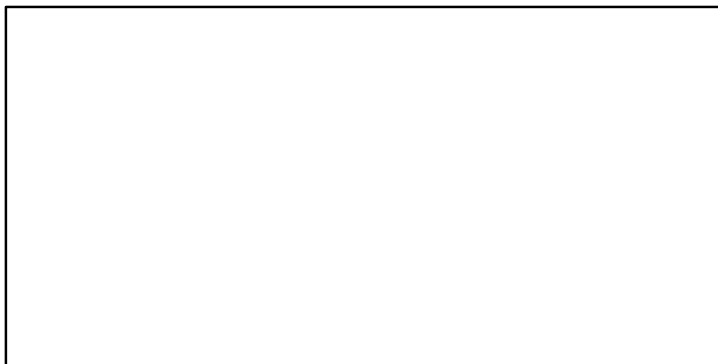
F*



ER*

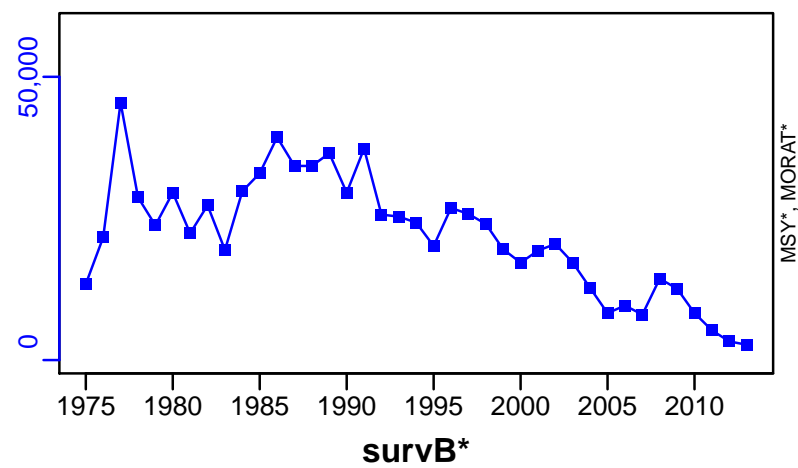


Recruits*



Arabesque greenling South coast of Hokkaido [ARGREENSHOKK]

TC-MT, TL*, RecC* (1975–2013–JPNIMP2016)



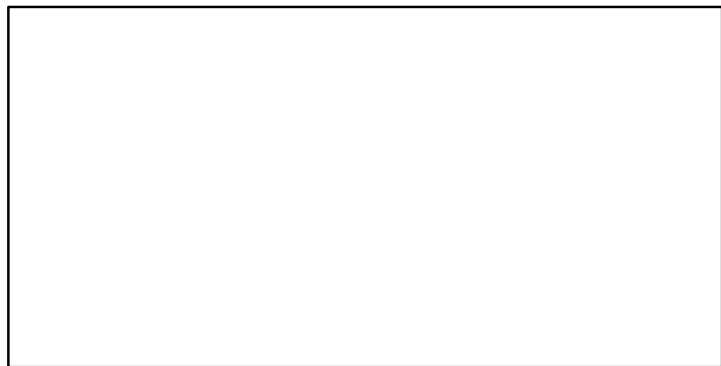
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Amberstripe scad East China Sea [ASCADECS]

Metadata	
Scientific Name	Decapterus muroadsi
Current Assess ID	FAJ-ASCADECS-1973-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	6780		
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

Amberstripe scad East China Sea [ASCADECS]

TB*



SSB*



TN *



F*



ER*

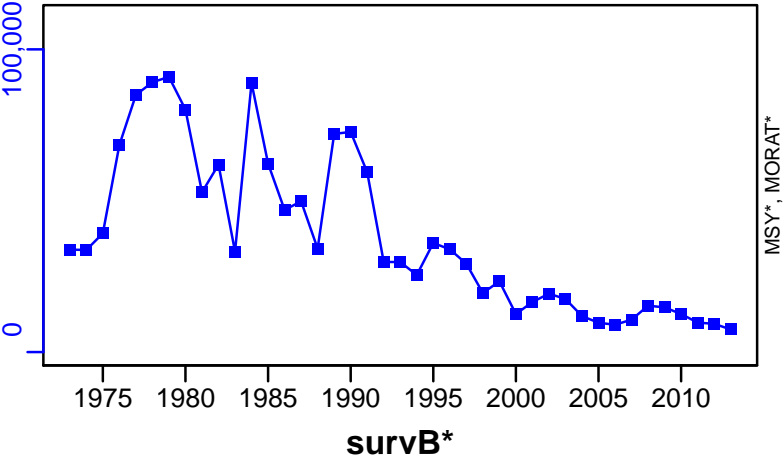


Recruits*



Amberstripe scad East China Sea [ASCADECS]

TC-MT, TL*, RecC* (1973–2013–JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Spotted mackerel East China Sea [BMACKECS]

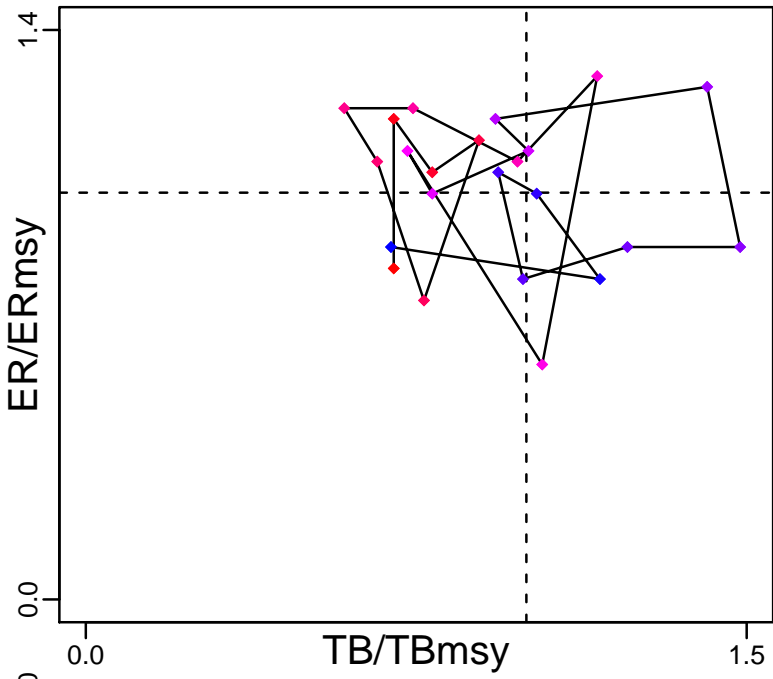
Metadata	
Scientific Name	Scomber australasicus
Current Assess ID	FAJ-BMACKECS-1992-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	160,247
SSBmsy	SSBmsy-MT	2013	51,957
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.39
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	54,757
M	M-1/yr	2014	0.4
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

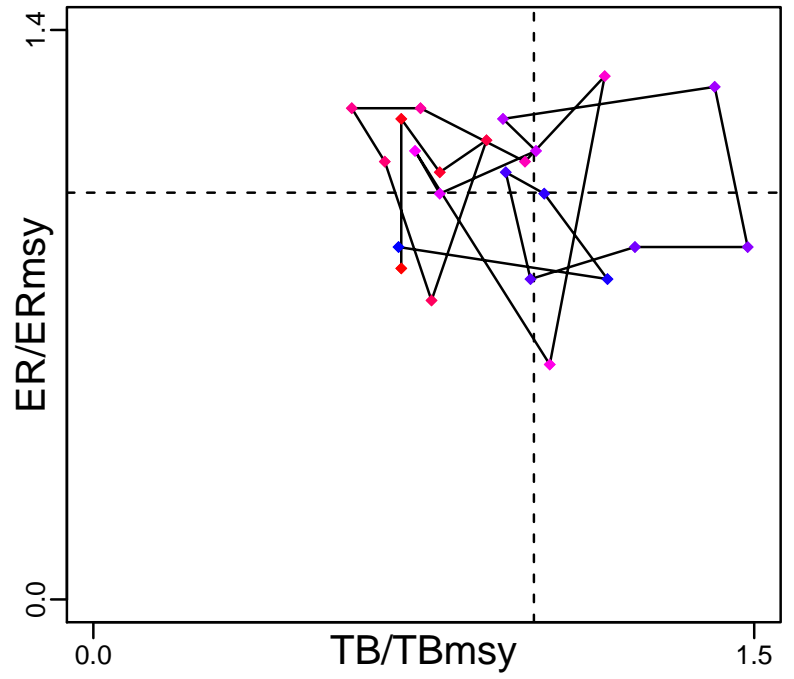
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	112,000	Both	0+
SSB	SSB-MT	2014	38,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	2.66×10^8	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	35,000		
TL	TL-MT	2014	35,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.7		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.88		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.97		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spotted mackerel East China Sea [BMACKECS]

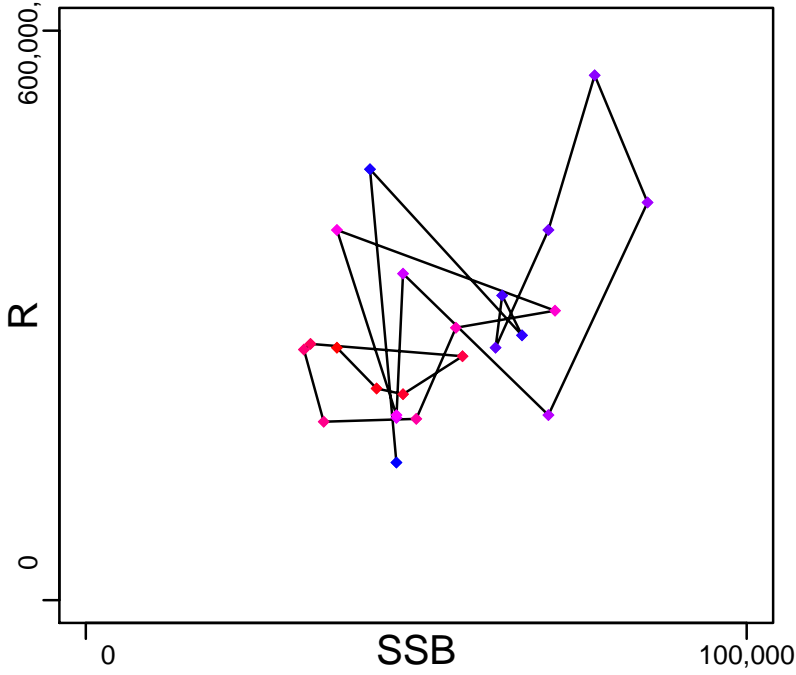
Kobe MSYpref (1992–2014–KUROTA)



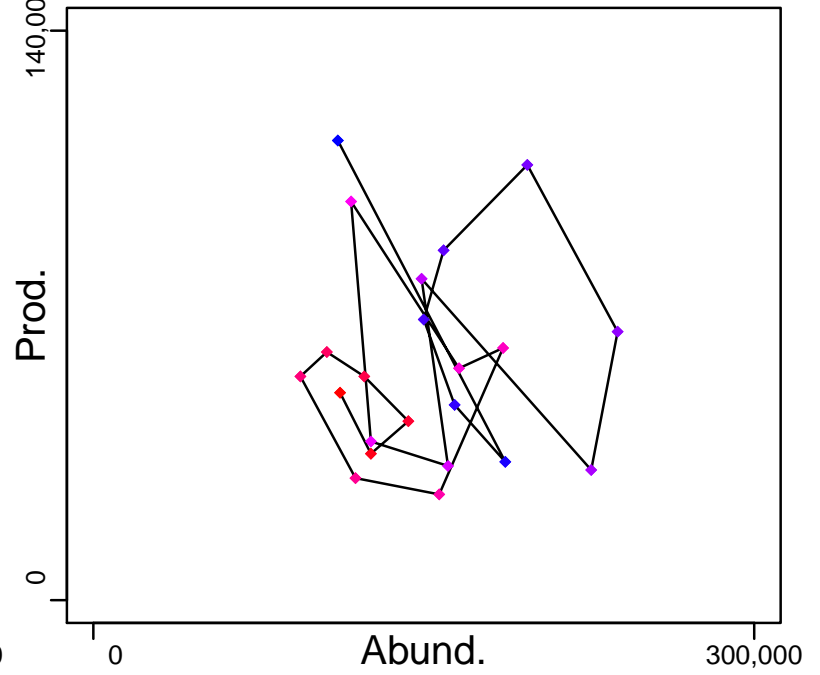
Kobe MGTpref (1992–2014–KUROTA)



Spawner Recruit (1992–2014–KUROTA)



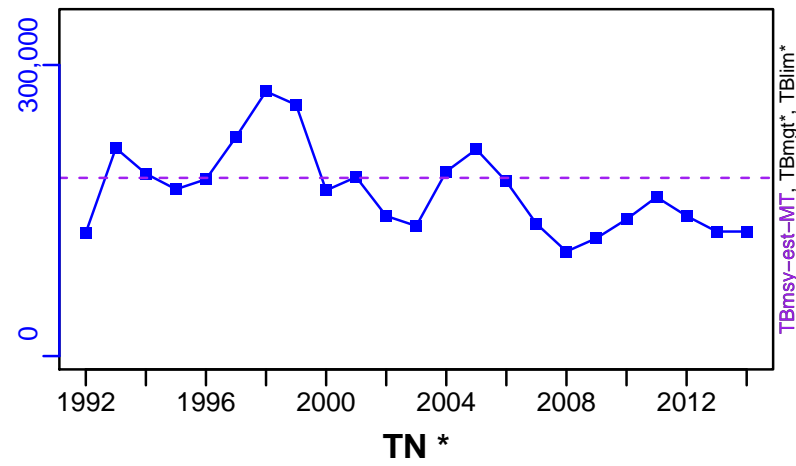
Production (1992–2014–KUROTA)



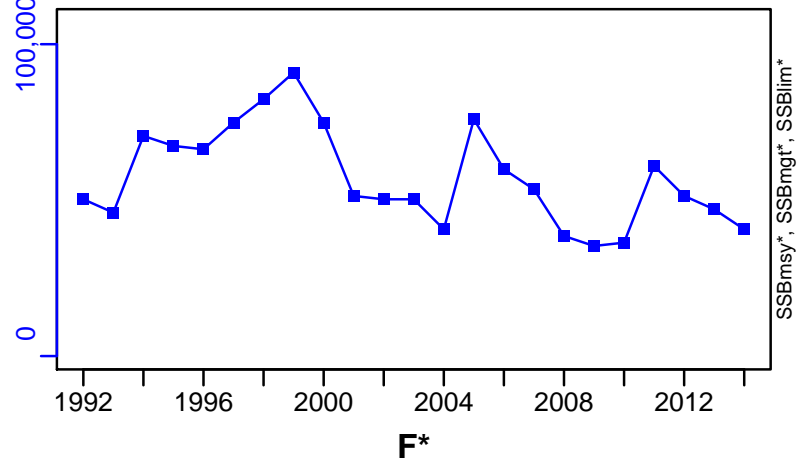
◆ Start Year ◆ End Year * No Data

Spotted mackerel East China Sea [BMACKECS]

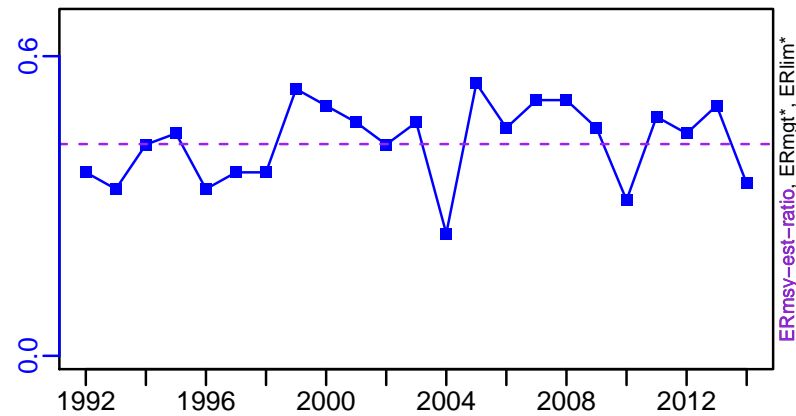
TB-MT (1992-2014-KUROTA)



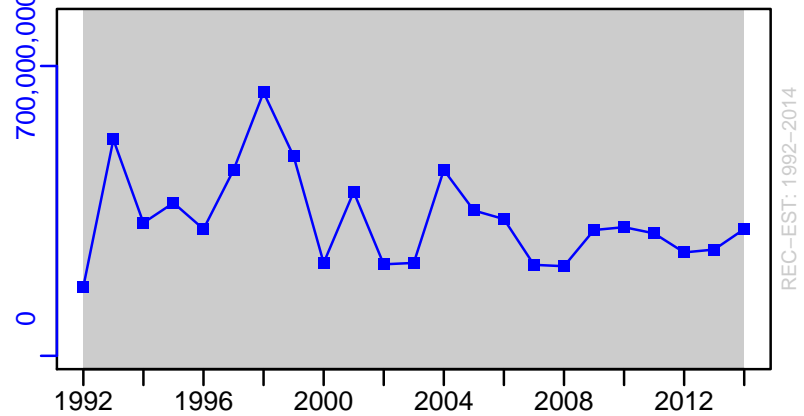
SSB-MT (1992-2014-KUROTA)



ER-ratio (1992-2014-KUROTA)

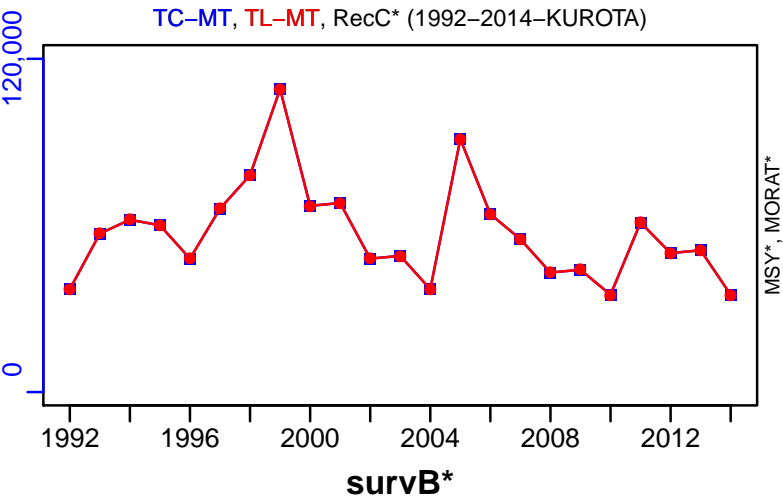


R-E00 (1992-2014-KUROTA)



Spotted mackerel East China Sea [BMACKECS]

TC-MT, TL-MT, RecC* (1992-2014-KUROTA)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Spotted mackerel Pacific Coast of Japan [BMACKPJPN]

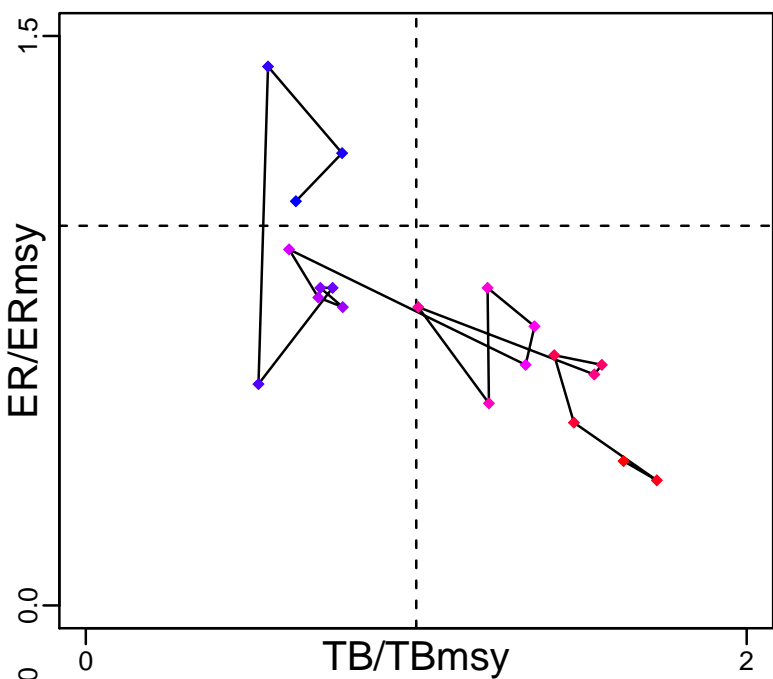
Metadata	
Scientific Name	Scomber australacius
Current Assess ID	FAJ-BMACKPJPN-1982-2013-JPNIMP2016
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	486,071
SSBmsy	SSBmsy-MT	2013	91,814
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.39
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	145,656
M	M-1/yr	2014	0.4
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

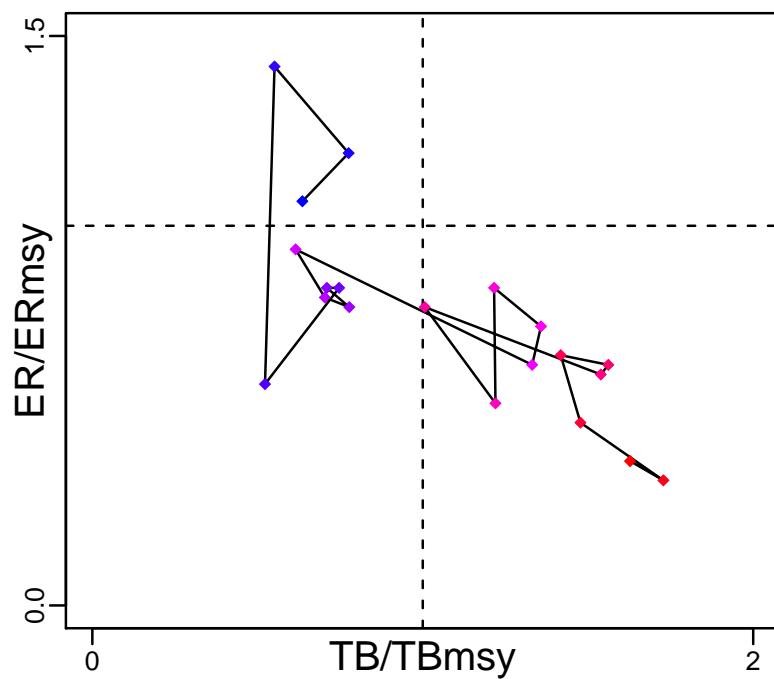
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	791,000	Both	0+
SSB	SSB-MT	2014	397,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	1.36×10^9	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	114,000		
TL	TL-MT	2014	114,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.63		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	3.37		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.35		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spotted mackerel Pacific Coast of Japan [BMACKPJPN]

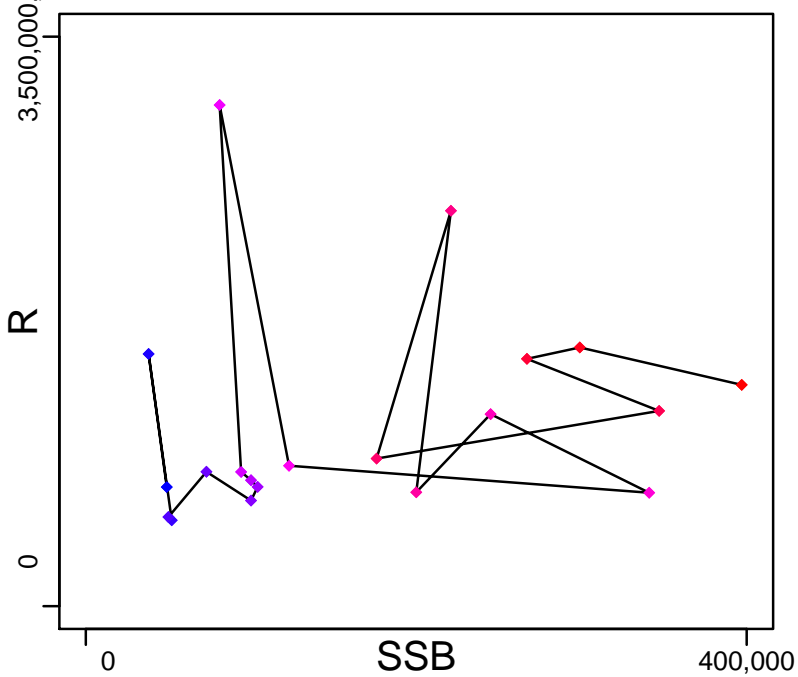
Kobe MSYpref (1982–2014–KUROTA)



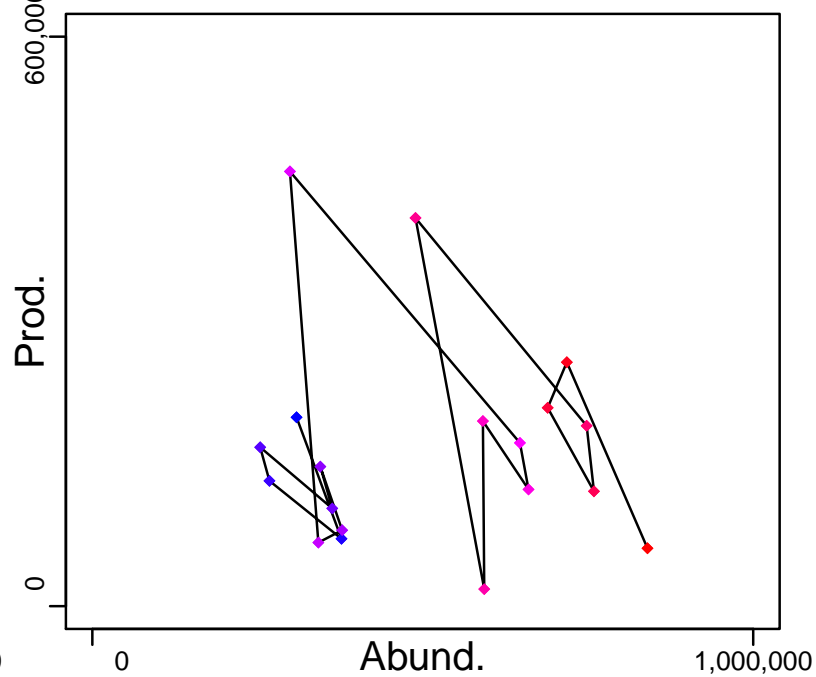
Kobe MGTpref (1982–2014–KUROTA)



Spawner Recruit (1982–2014–KUROTA)



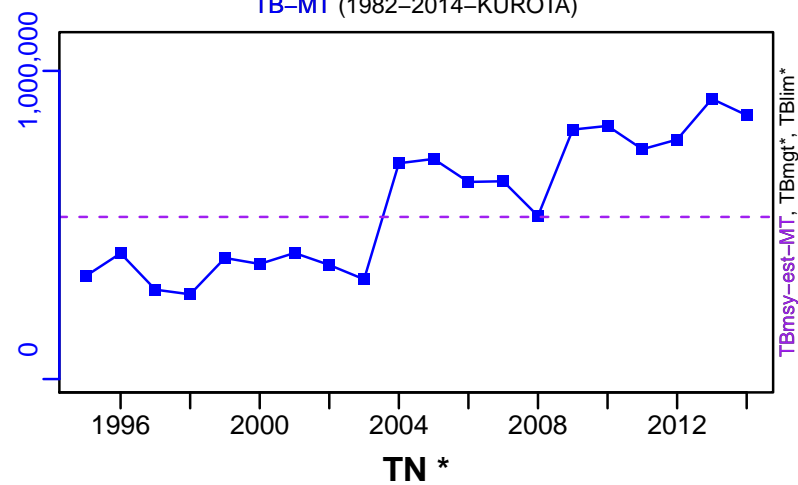
Production (1982–2014–KUROTA)



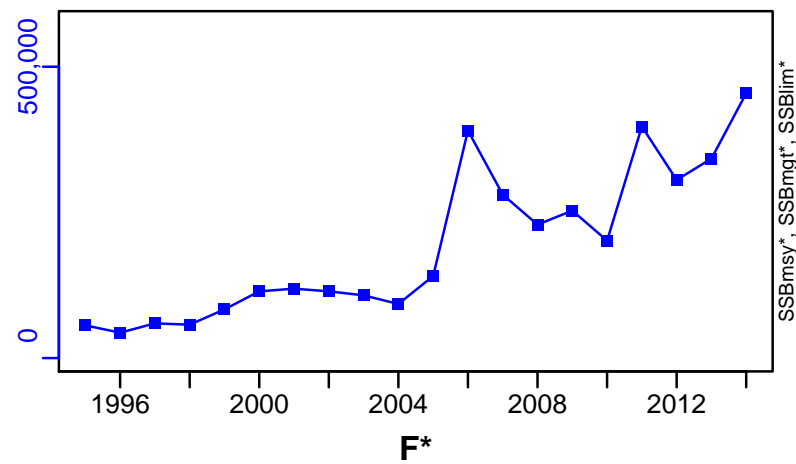
◆ Start Year ◆ End Year * No Data

Spotted mackerel Pacific Coast of Japan [BMACKPJPN]

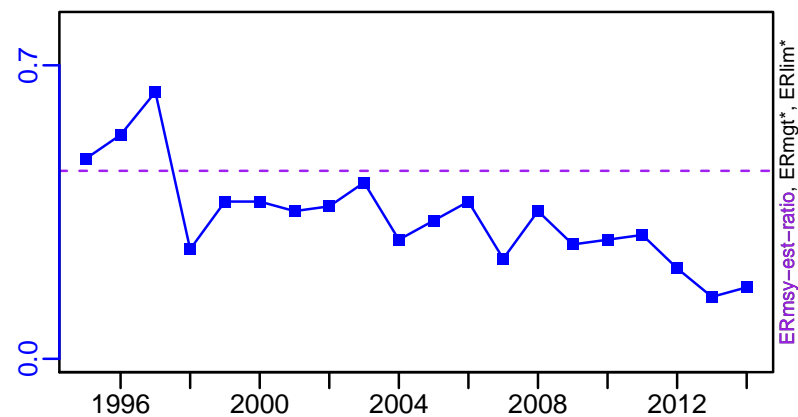
TB-MT (1982-2014-KUROTA)



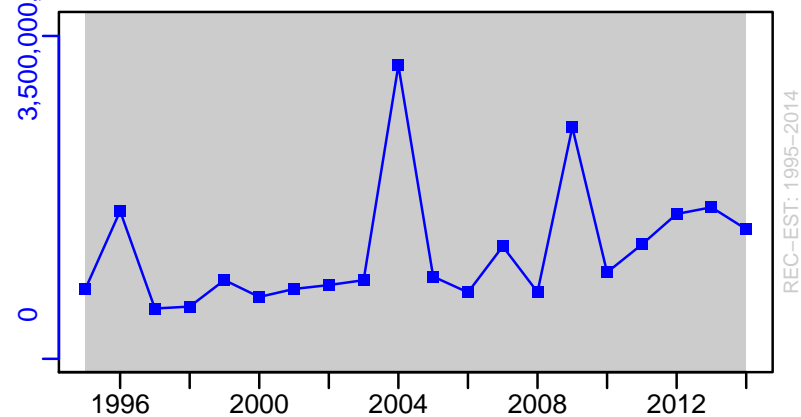
SSB-MT (1982-2014-KUROTA)



ER-ratio (1982-2014-KUROTA)



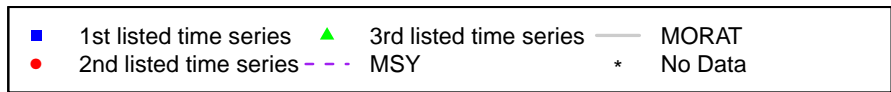
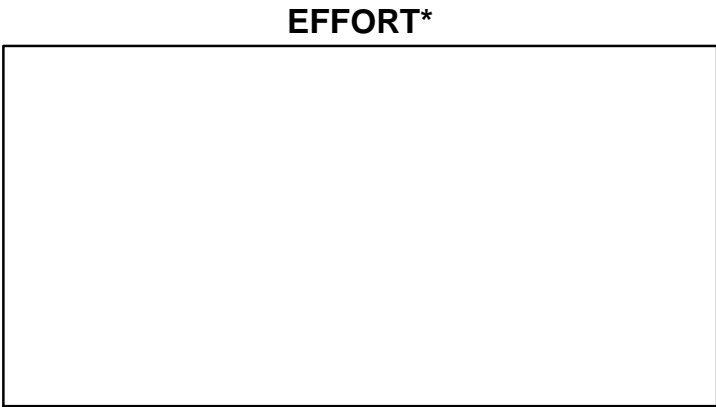
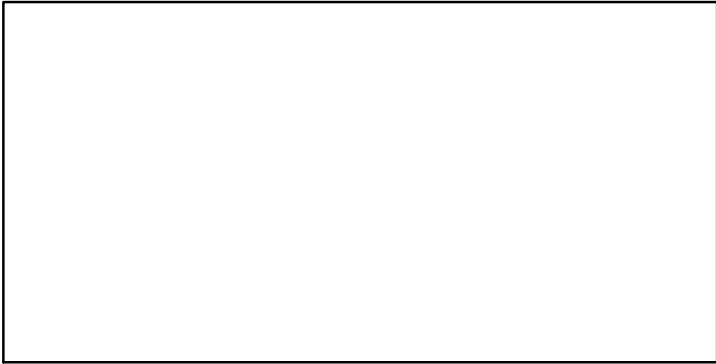
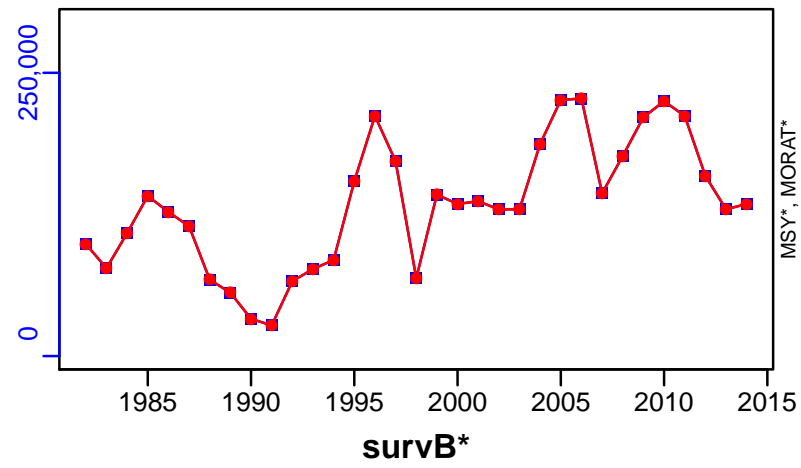
R-E00 (1982-2014-KUROTA)



Spotted mackerel Pacific Coast of Japan [BMACKPJPN]

TC-MT, TL-MT, RecC* (1982-2014-KUROTA)

TAC*, Cpair*, Cadv*



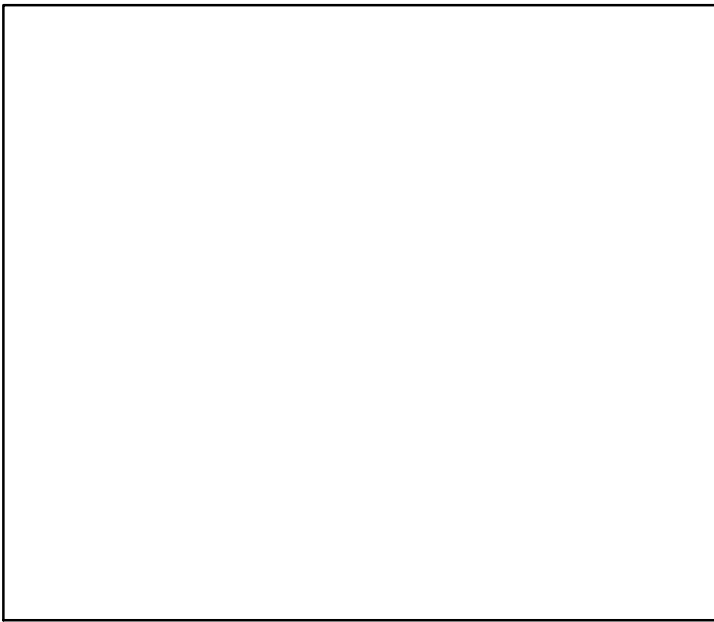
Yellow sea bream Sea of Japan [BRMSOJ]

Metadata	
Scientific Name	Dentex tumifrons
Current Assess ID	FAJ-BRMSOJ-1980-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.22
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	5560	-	0
SSB	SSB-MT	2010	2910	-	-
TN	-	-	-	-	-
R	R-E00	2010	4.4×10^7	-	-
F	F-1/yr	2010	0	-	0 to 4
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2013	4140		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

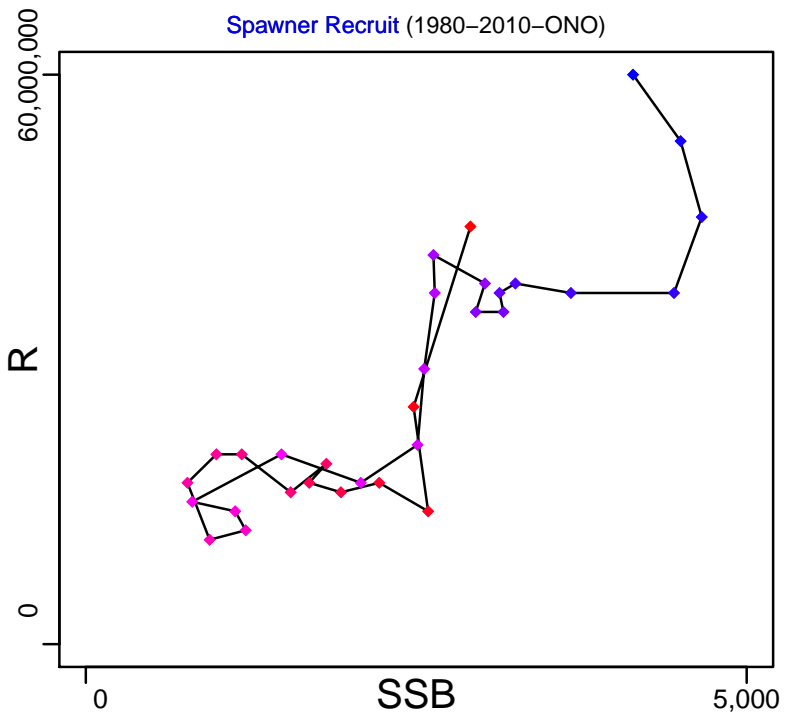
Kobe MSY*



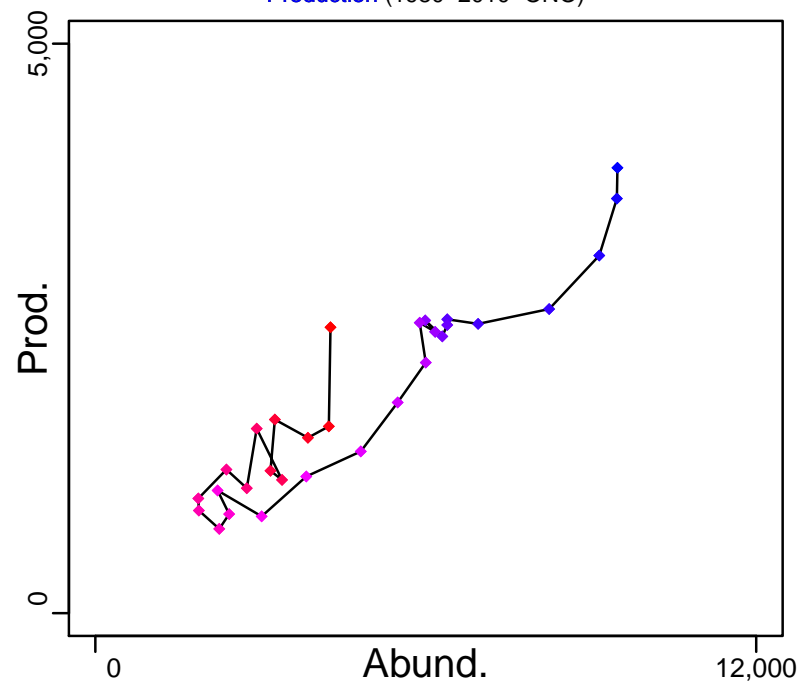
Kobe MGT*



Spawner Recruit (1980–2010–ONO)



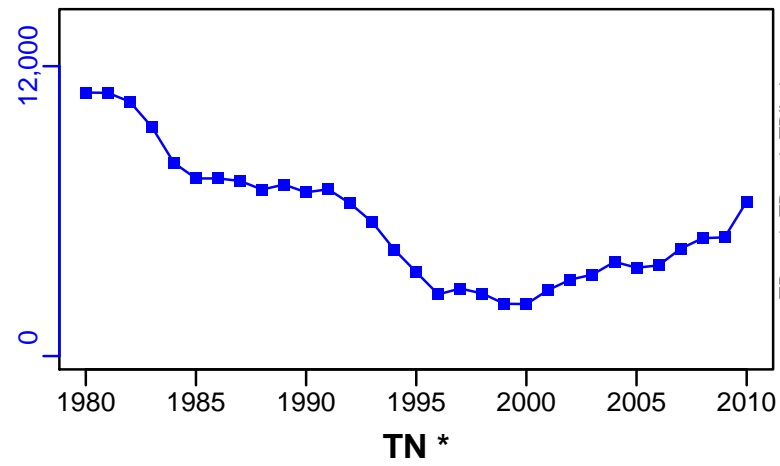
Production (1980–2010–ONO)



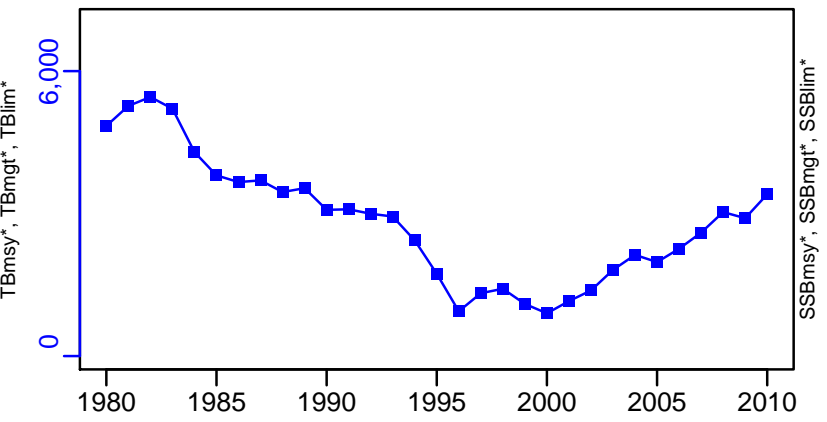
◆ Start Year ◆ End Year * No Data

Yellow sea bream Sea of Japan [BRMSOJ]

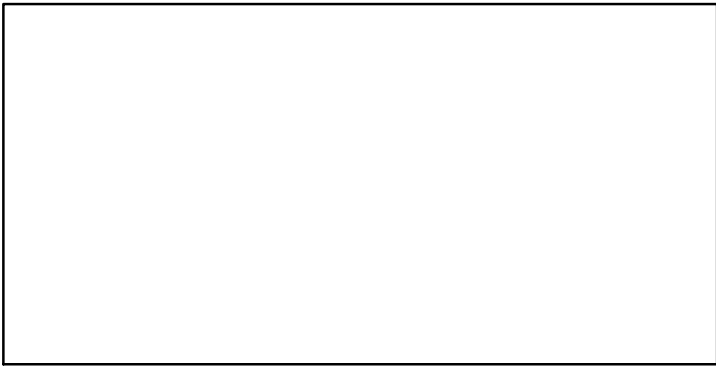
TB-MT (1980-2010-ONO)



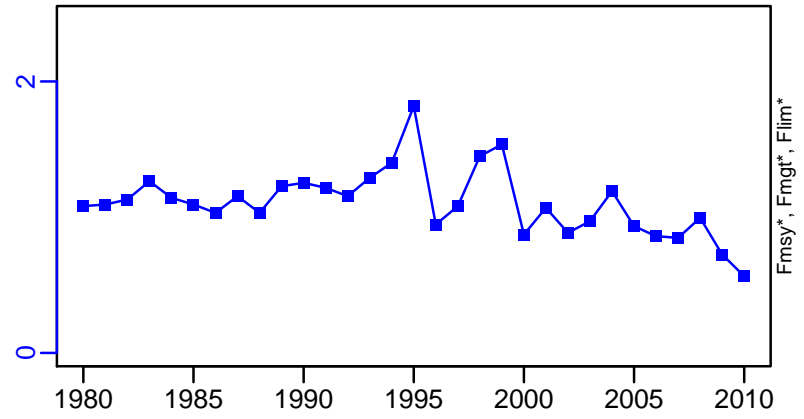
SSB-MT (1980-2010-ONO)



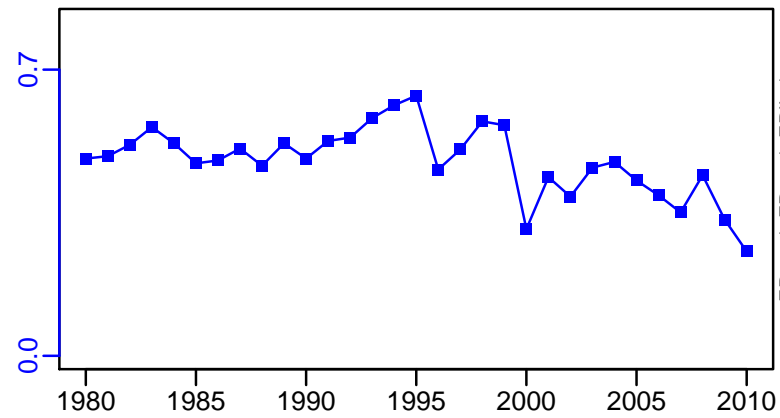
TN *



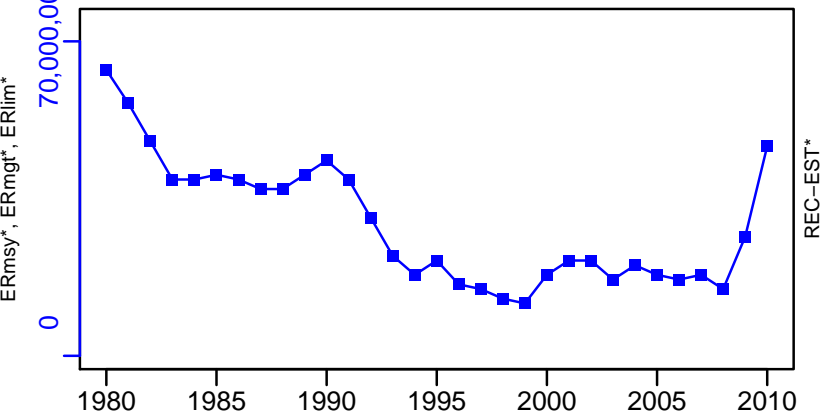
F-1/yr (1980-2010-ONO)



ER-ratio (1980-2010-ONO)



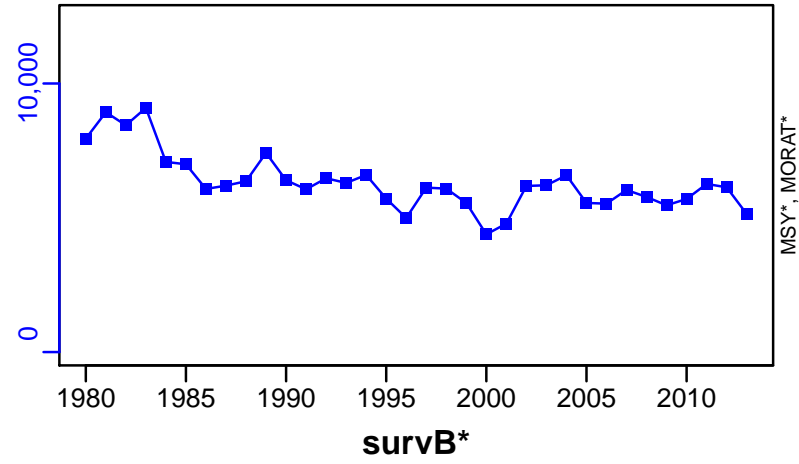
R-E00 (1980-2010-ONO)



Yellow sea bream Sea of Japan [BRMSOJ]

TC-MT, TL*, RecC* (1980-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Black scraper Sea of Japan and East China Sea [BSCRAPERSECS]

Metadata	
Scientific Name	Thamnaconus modestus
Current Assess ID	FAJ-BSCRAPERSECS-2000-2013-JPNIMP2016
Area	Sea of Japan and East China Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	5460		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



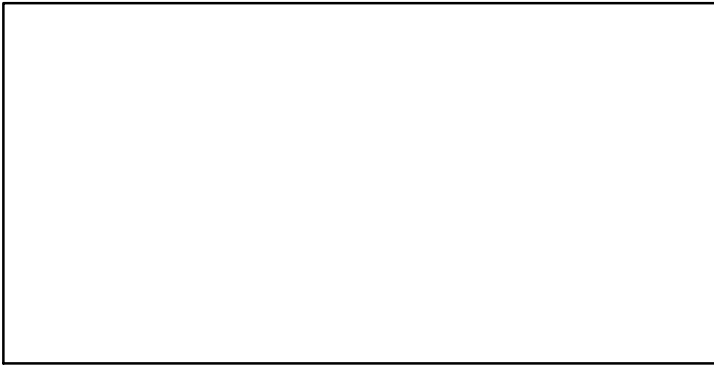
Production*



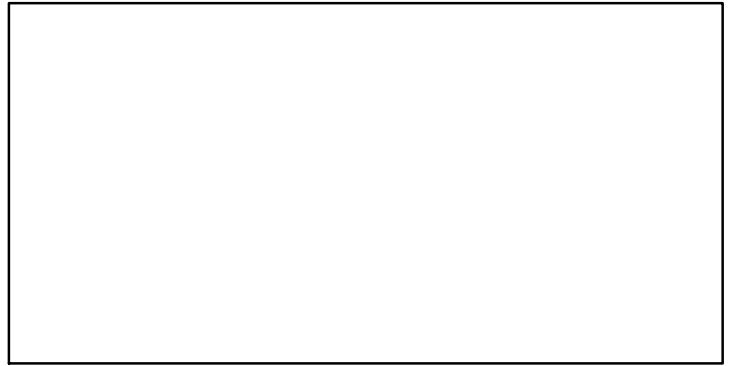
◆ Start Year ◆ End Year * No Data

Black scraper Sea of Japan and East China Sea [BSCRAPERSEJCS]

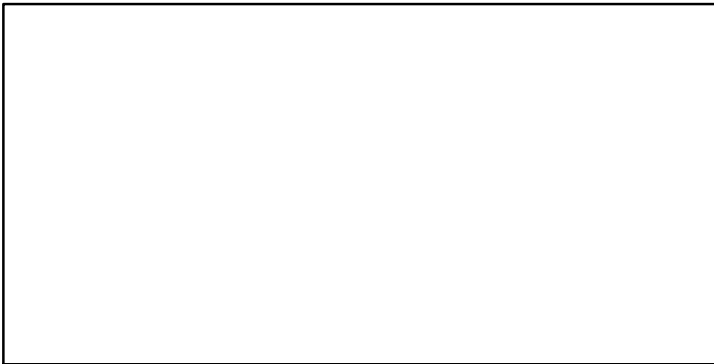
TB*



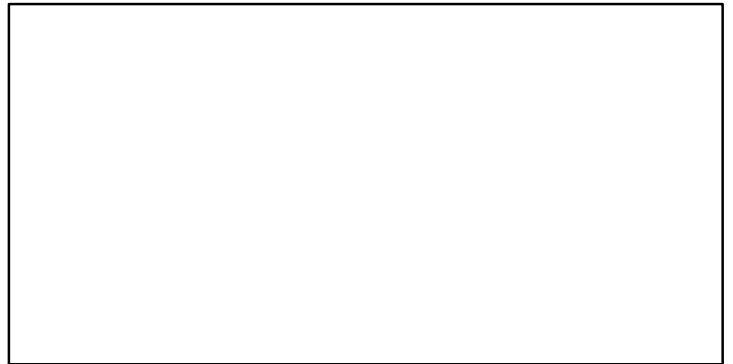
SSB*



TN *



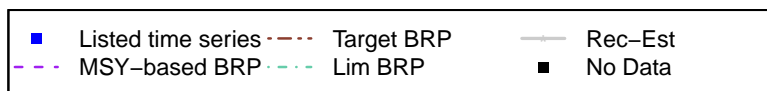
F*



ER*



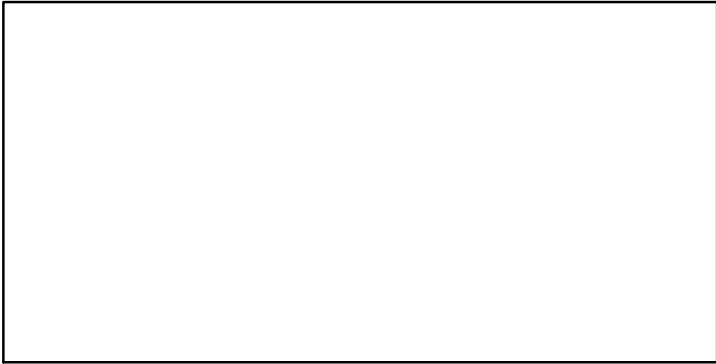
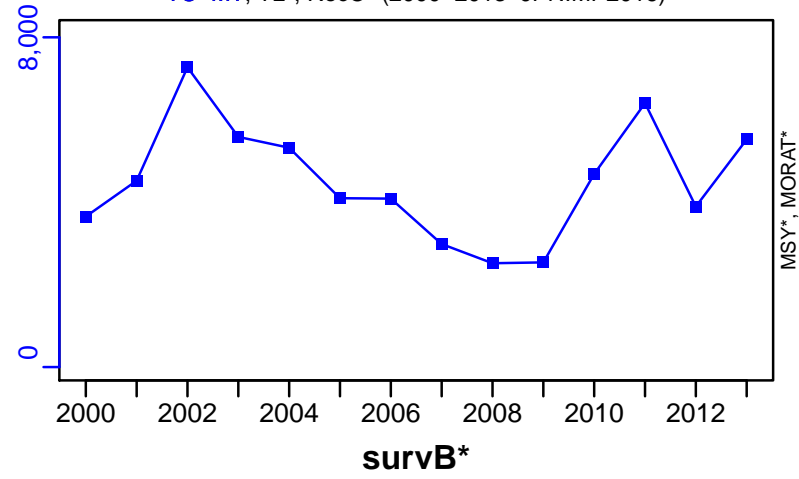
Recruits*



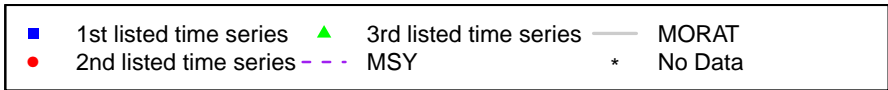
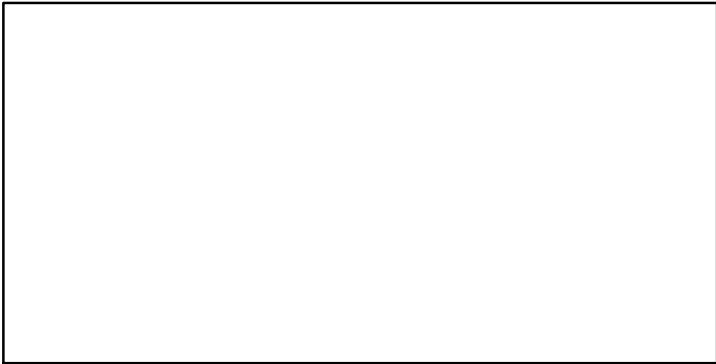
Black scraper Sea of Japan and East China Sea [BSCRAPERSEJCS]

TC-MT, TL*, RecC* (2000-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Beni-zuwai crab Sea of Japan [BZCRABSOJ]

Metadata	
Scientific Name	Chionoecetes japonicus
Current Assess ID	FAJ-BZCRABSOJ-1999-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	15,100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

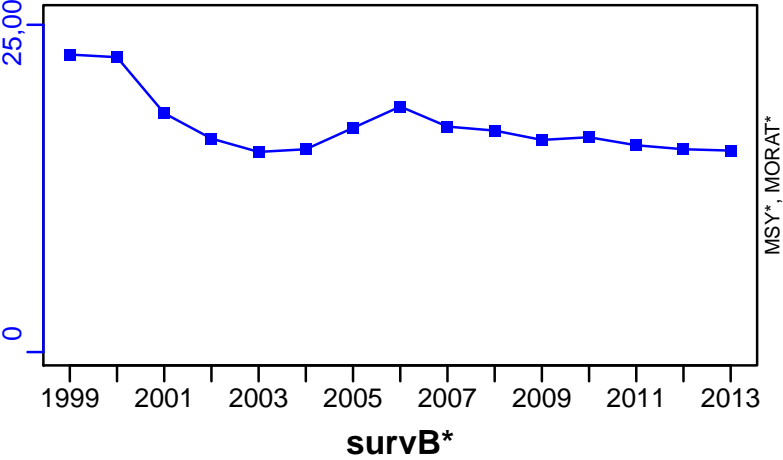


Recruits*



Beni-zuwai crab Sea of Japan [BZCRABSOJ]

TC-MT, TL*, RecC* (1999-2013-JPNIMP2016)



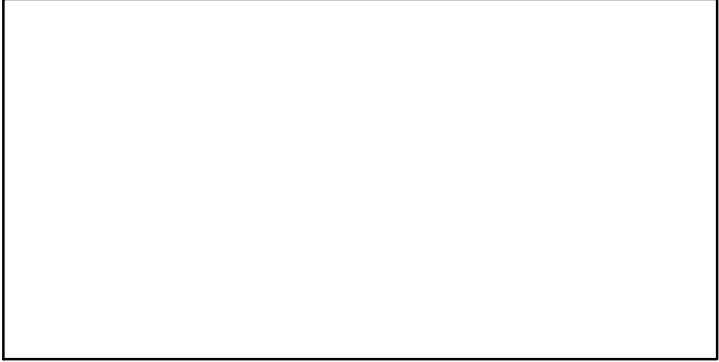
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Crimson jobfish Okinawa Islands [CJOBOKWI]

Metadata	
Scientific Name	Pristipomoides filamentosus
Current Assess ID	FAJ-CJOBOKWI-1989-2013-JPNIMP2016
Area	Okinawa Islands
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	25		
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

Crimson jobfish Okinawa Islands [CJOBOKWI]

TB*



SSB*



TN *



F*



ER*



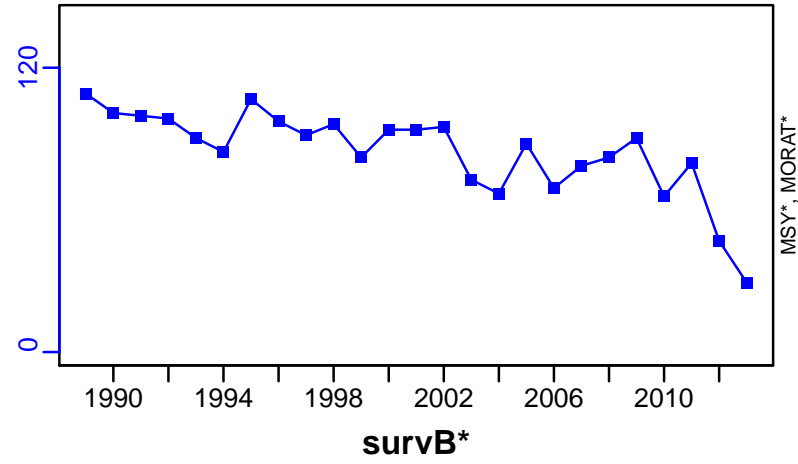
Recruits*



Crimson jobfish Okinawa Islands [CJOBOKWI]

TC-MT, TL*, RecC* (1989–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Chub mackerel Pacific Coast of Japan [CMACKPJPN]

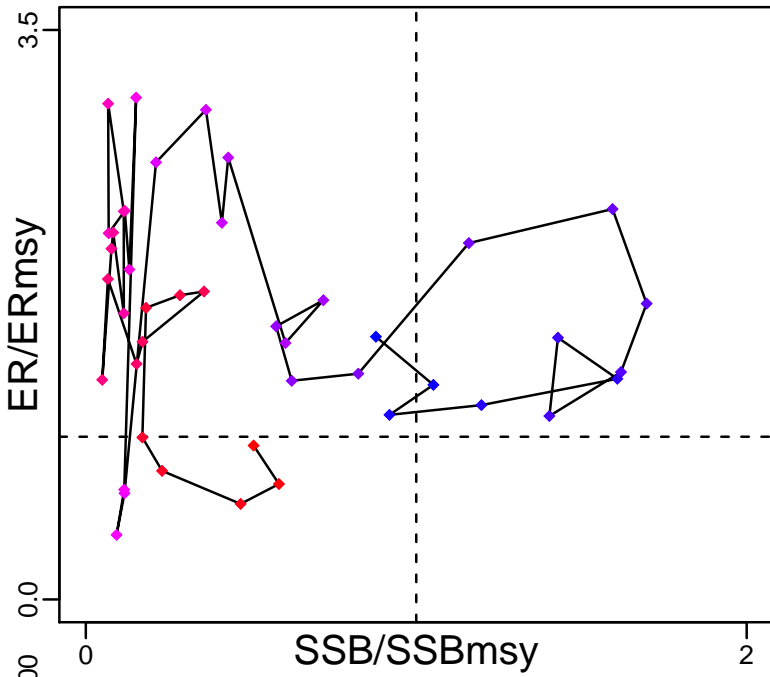
Metadata	
Scientific Name	Scomber japonicus
Current Assess ID	FAJ-CMACKPJPN-1970-2013-JPNIMP2016
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2009, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2009	5,080,397
SSBmsy	SSBmsy-MT	2013	812,856
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.17
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	355,291
M	M-1/yr	2013	0.4
TBlim	TBlim-MT	2009	450
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

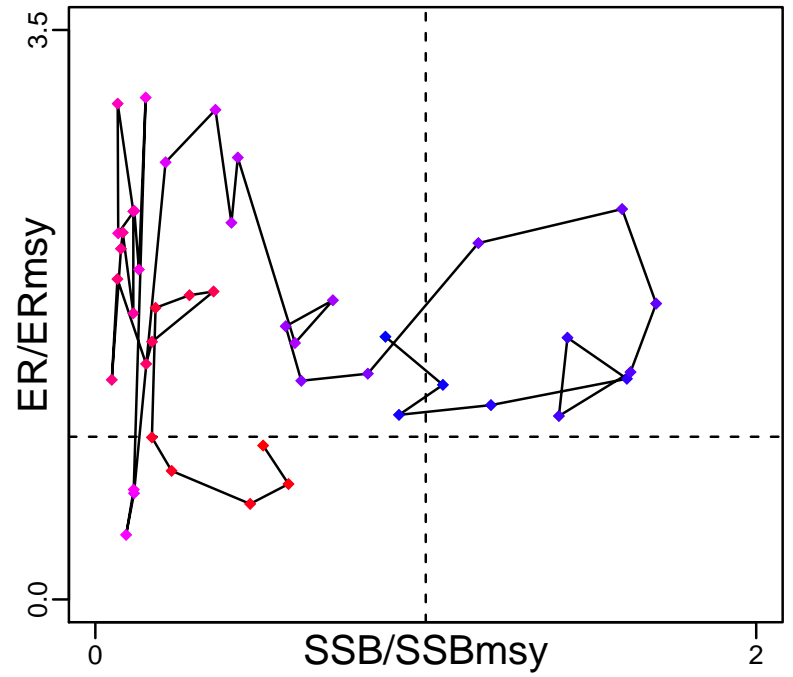
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	1,360,000	-	0
SSB	SSB-MT	2013	413,000	Both	2
TN	-	-	-	-	-
R	R-E00	2013	5.53×10^9	-	0
F	F-1/yr	2009	0	Both	0 to 5
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	220,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2009	0.13		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.51		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.95		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Chub mackerel Pacific Coast of Japan [CMACKPJPN]

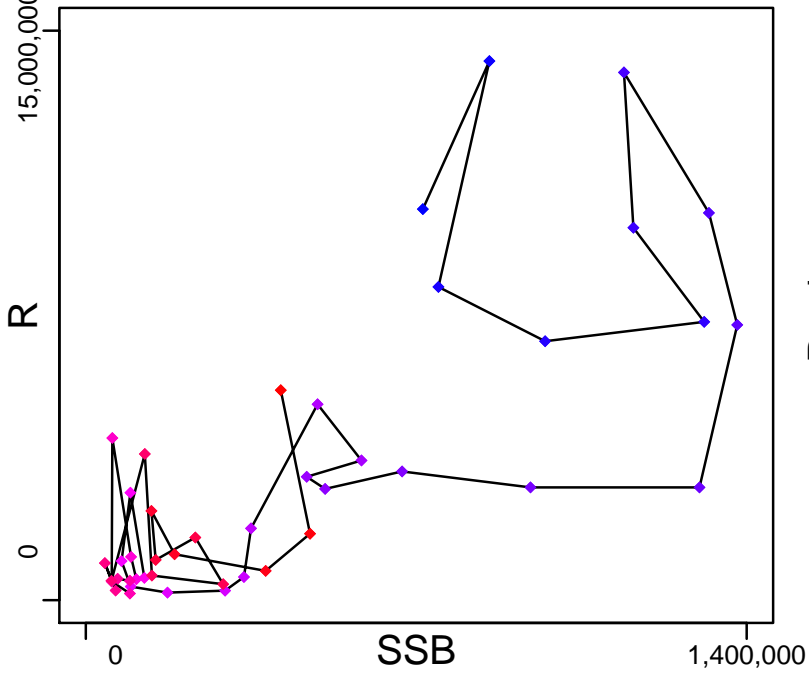
Kobe MSYpref (1970–2013–JPNIMP2016)



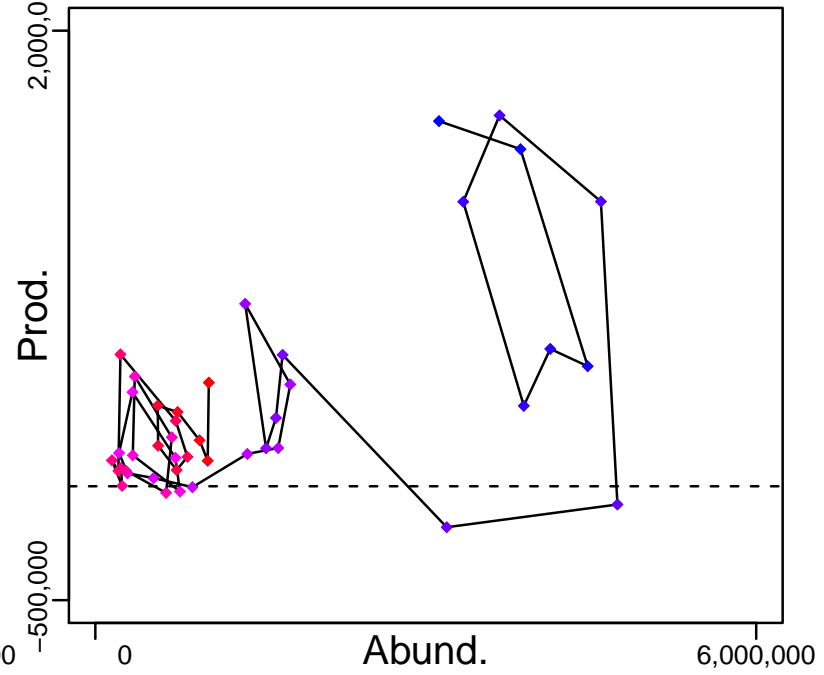
Kobe MGTpref (1970–2013–JPNIMP2016)



Spawner Recruit (1970–2013–JPNIMP2016)



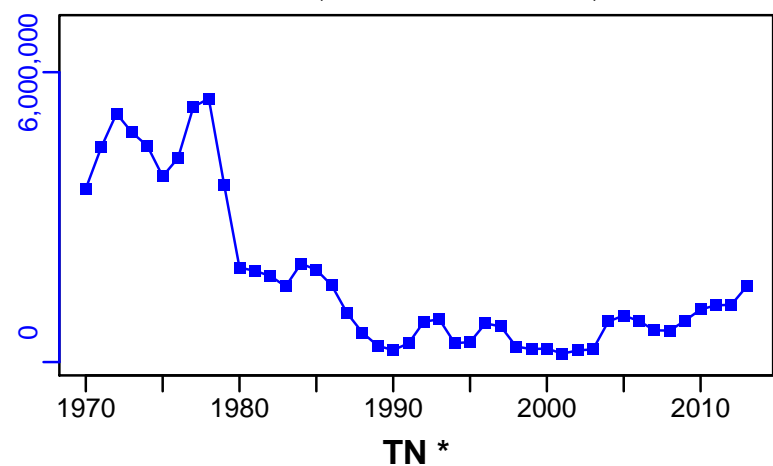
Production (1970–2013–JPNIMP2016)



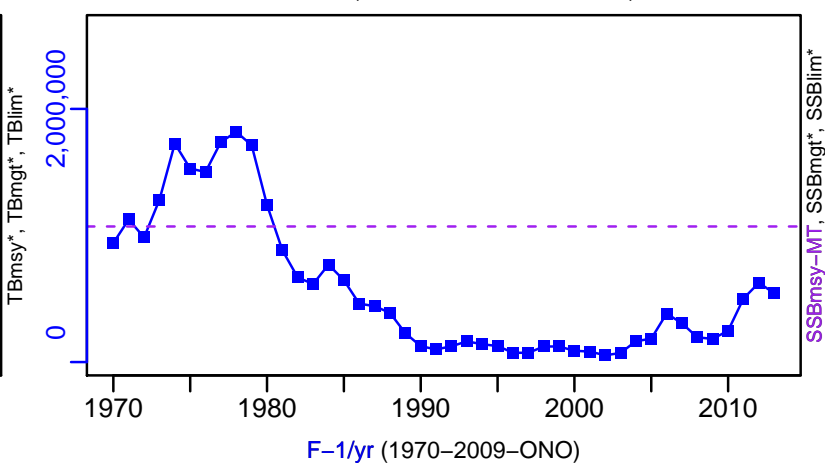
◆ Start Year ◆ End Year * No Data

Chub mackerel Pacific Coast of Japan [CMACKPJPN]

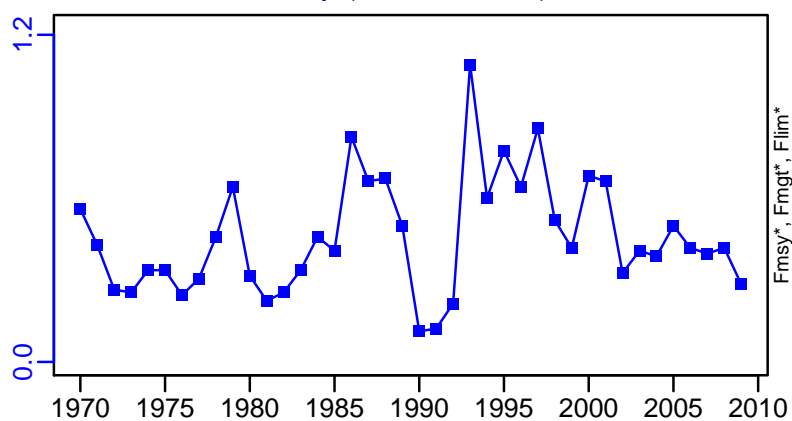
TB-MT (1970-2013-JPNIMP2016)



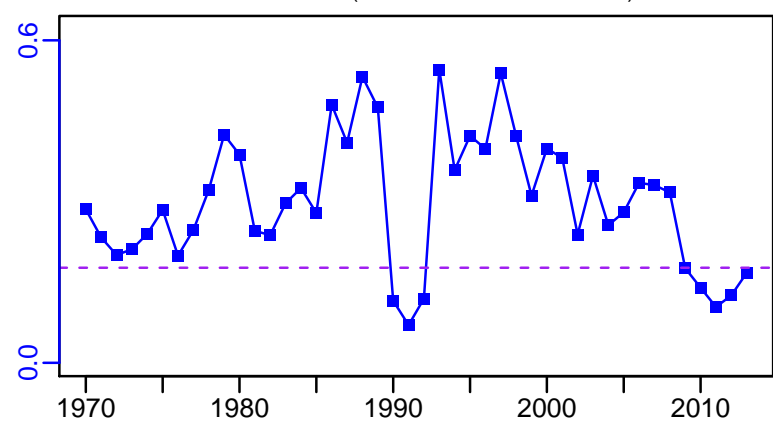
SSB-MT (1970-2013-JPNIMP2016)



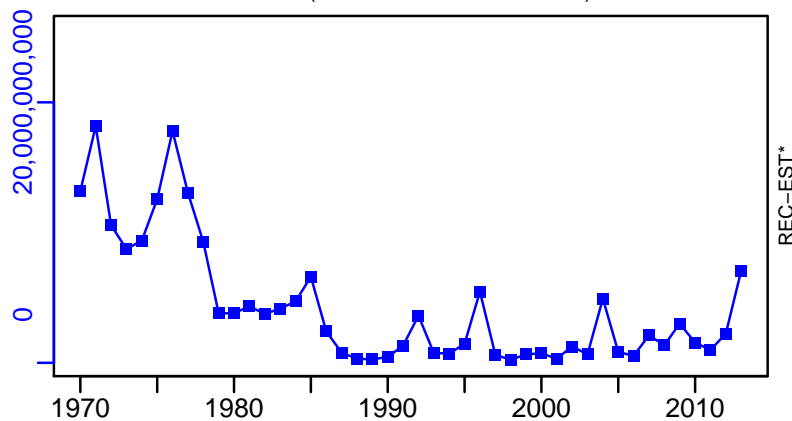
F-1/yr (1970-2009-ONO)



ER-calc-ratio (1970-2013-JPNIMP2016)

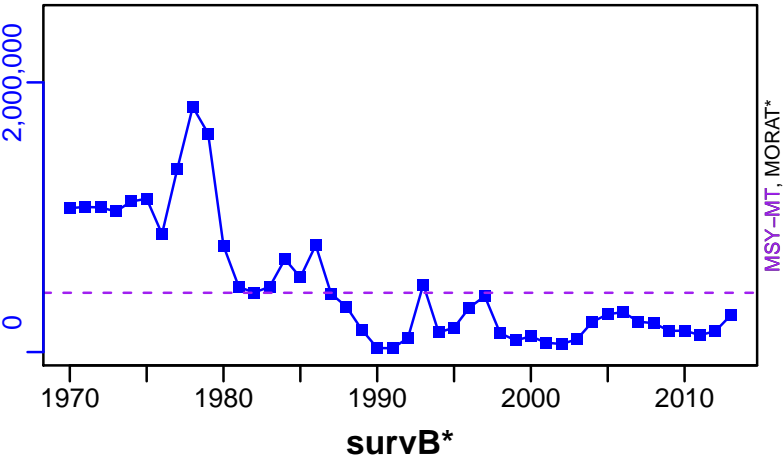


R-E00 (1970-2013-JPNIMP2016)



Chub mackerel Pacific Coast of Japan [CMACKPJPN]

TC-MT, TL*, RecC* (1970-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Chub mackerel Tsushima Strait [CMACKTSST]

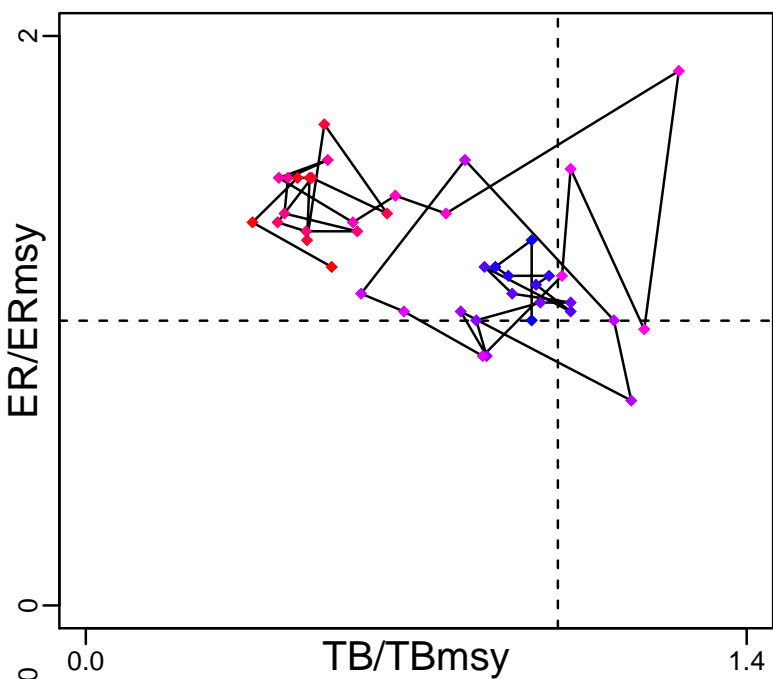
Metadata	
Scientific Name	Scomber japonicus
Current Assess ID	FAJ-CMACKTSST-1973-2013-JPNIMP2016
Area	Tsushima Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	1,090,501
SSBmsy	SSBmsy-MT	2013	339,714
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.36
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	325,542
M	M-1/yr	2014	0.4
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	247,000
Flim	-	-	-
ERlim	-	-	-

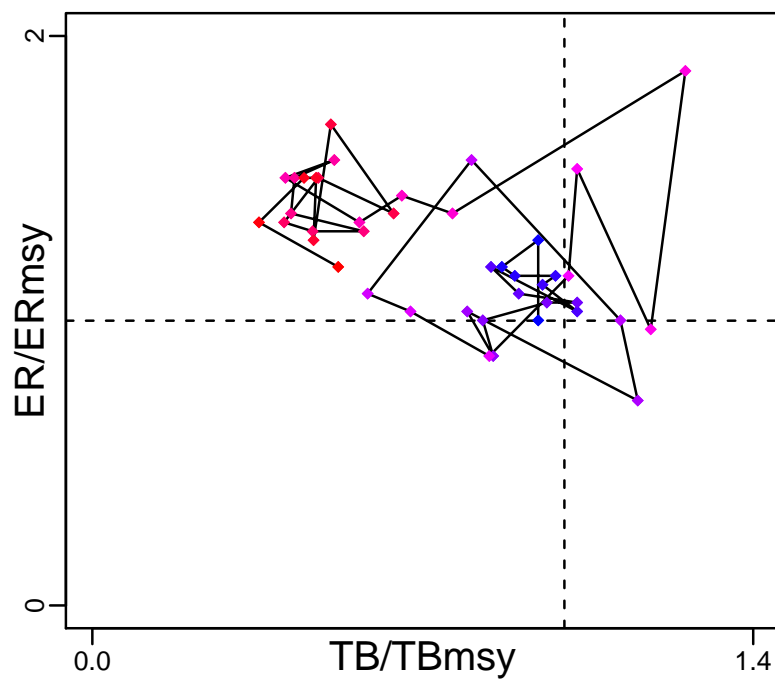
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	568,000	Both	0+
SSB	SSB-MT	2014	117,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	1.49×10^9	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	214,000		
TL	TL-MT	2014	214,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.52		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.45		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.08		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Chub mackerel Tsushima Strait [CMACKTSST]

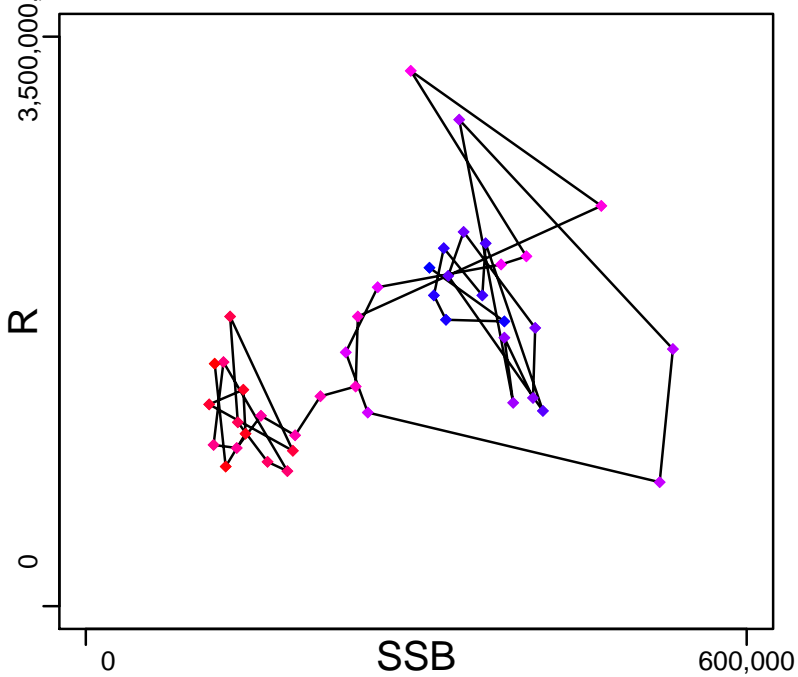
Kobe MSYpref (1973–2014–KUROTA)



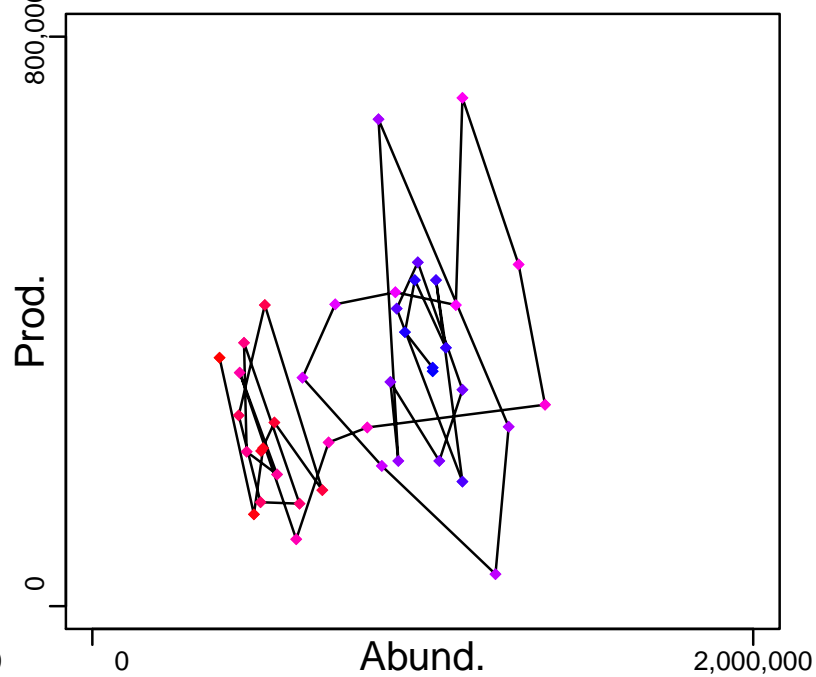
Kobe MGTpref (1973–2014–KUROTA)



Spawner Recruit (1973–2014–KUROTA)



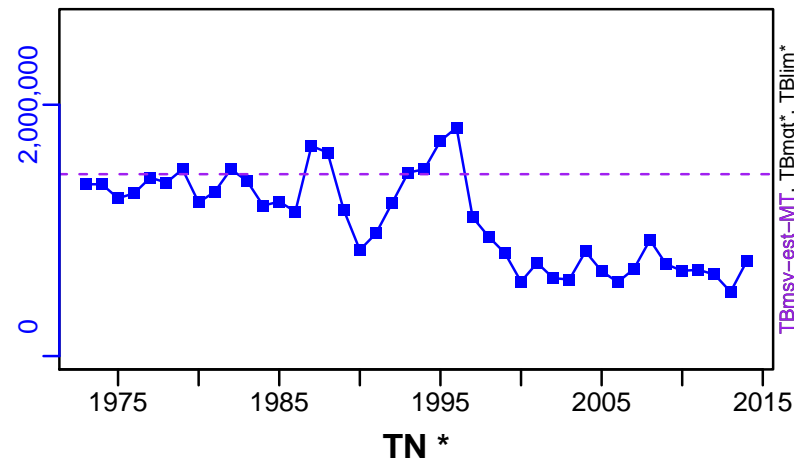
Production (1973–2014–KUROTA)



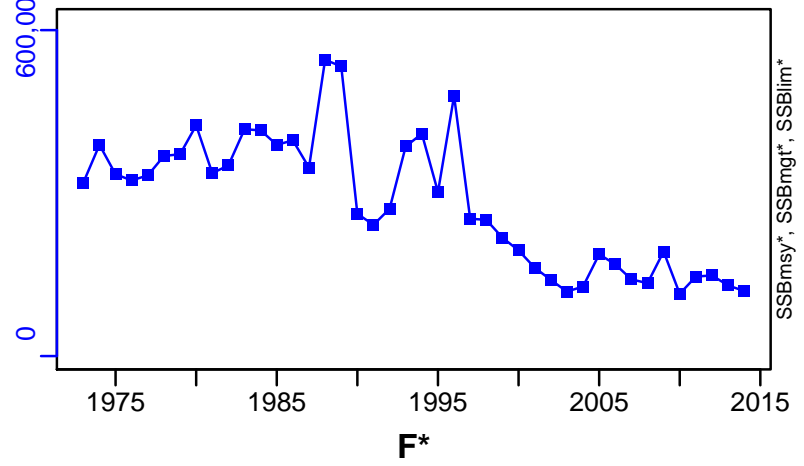
◆ Start Year ◆ End Year * No Data

Chub mackerel Tsushima Strait [CMACKTSST]

TB-MT (1973–2014–KUROTA)

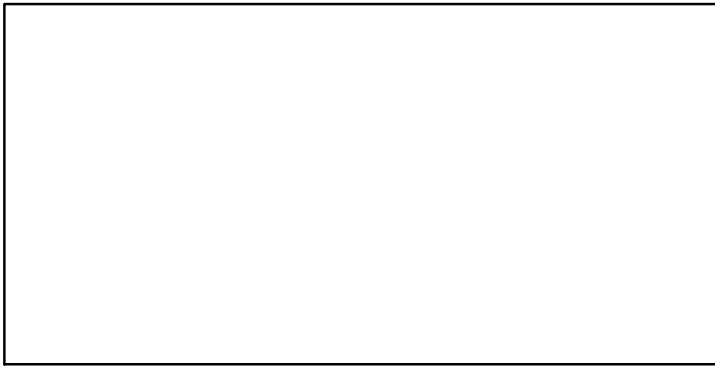


SSB-MT (1973–2014–KUROTA)

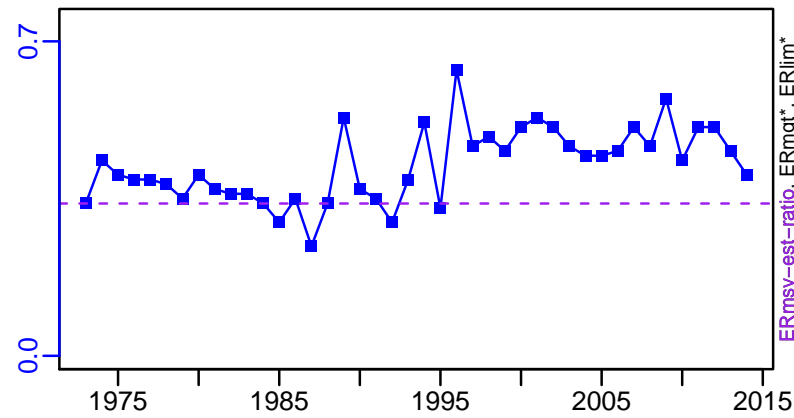


TN *

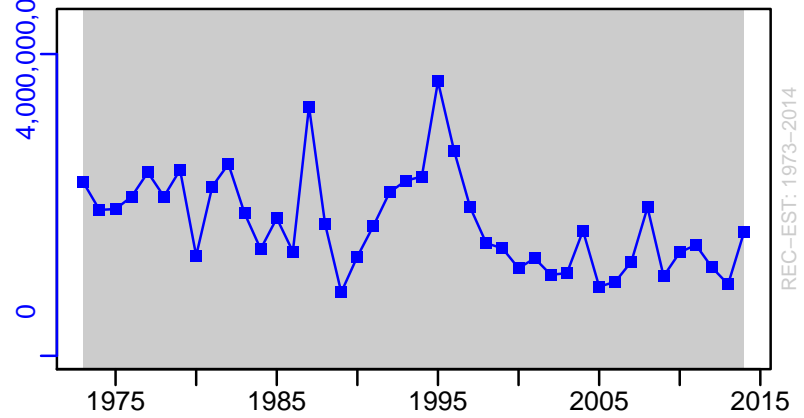
F*



ER-ratio (1973–2014–KUROTA)



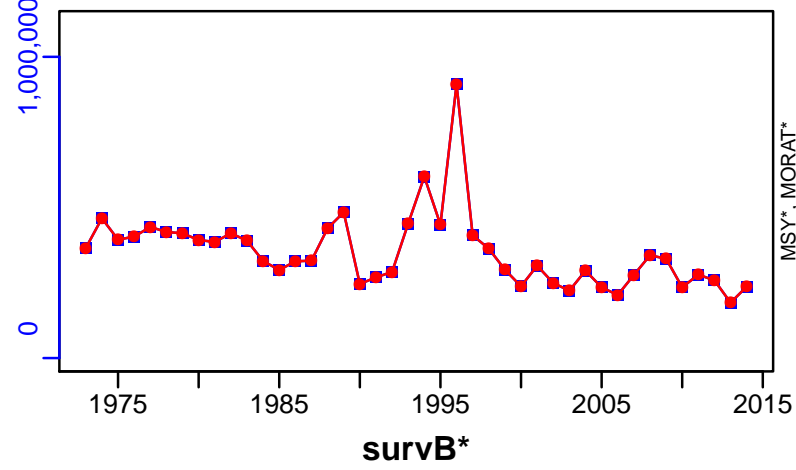
R-E00 (1973–2014–KUROTA)



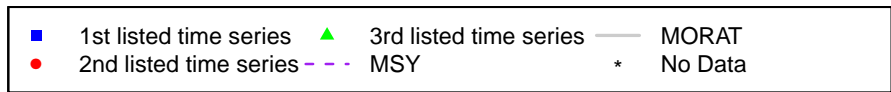
Chub mackerel Tsushima Strait [CMACKTSST]

TC-MT, TL-MT, RecC* (1973-2014-KUROTA)

TAC*, Cpair*, Cadv*



EFFORT*



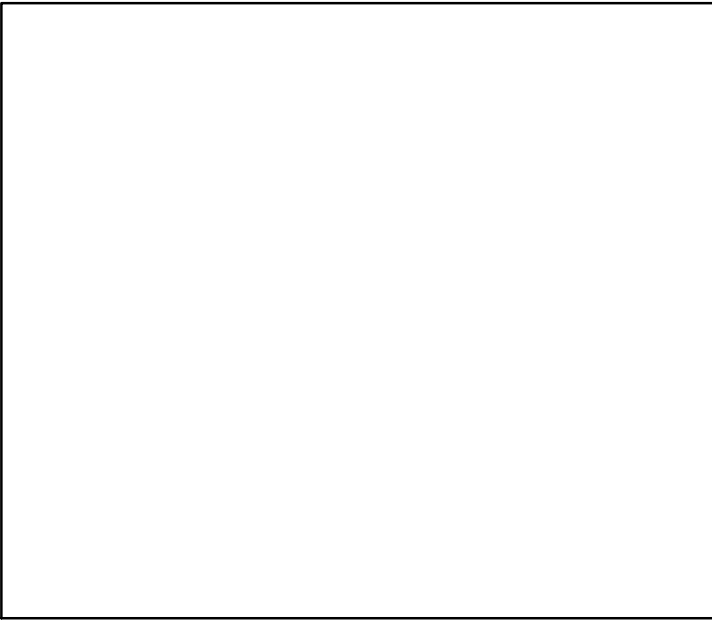
Deep-sea smelt Pacific Ocean [DSSMELTPAC]

Metadata	
Scientific Name	Glossanodon semifasciatus
Current Assess ID	FAJ-DSSMELTPAC-1980-2013-JPNIMP2016
Area	Pacific Ocean
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	599		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

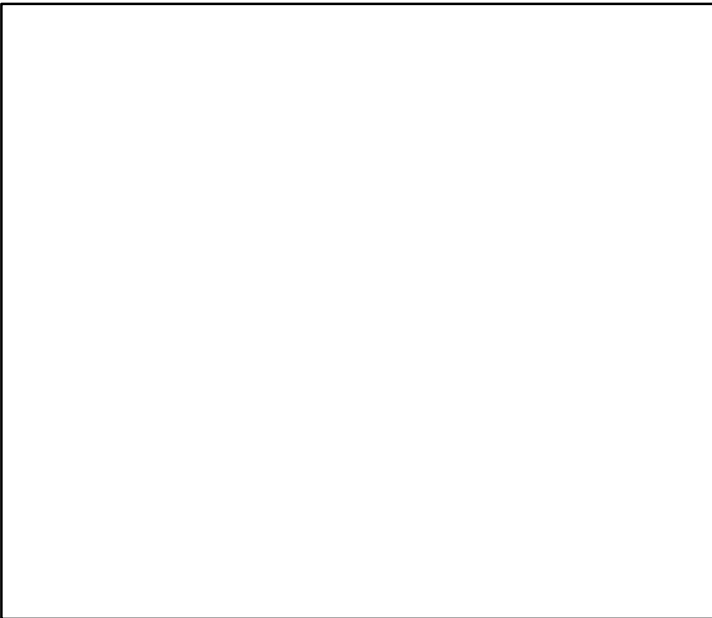
Kobe MSY*



Kobe MGT*



Spawner Recruit*



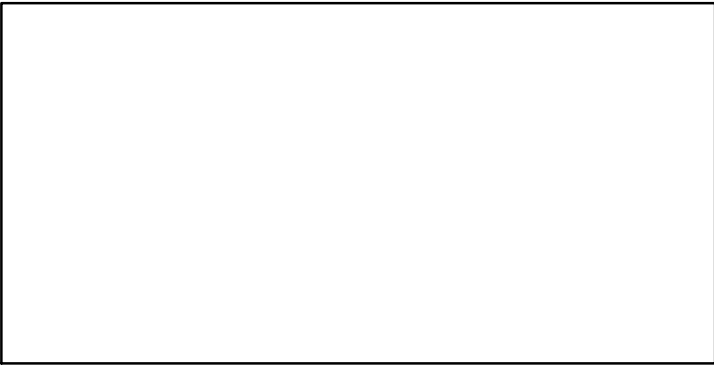
Production*



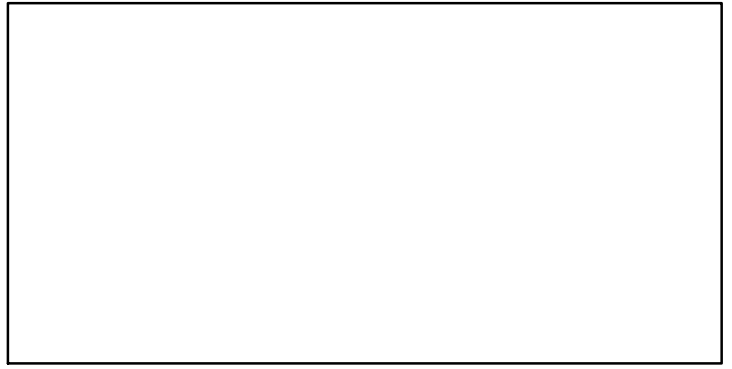
◆ Start Year ◆ End Year * No Data

Deep-sea smelt Pacific Ocean [DSSMELTPAC]

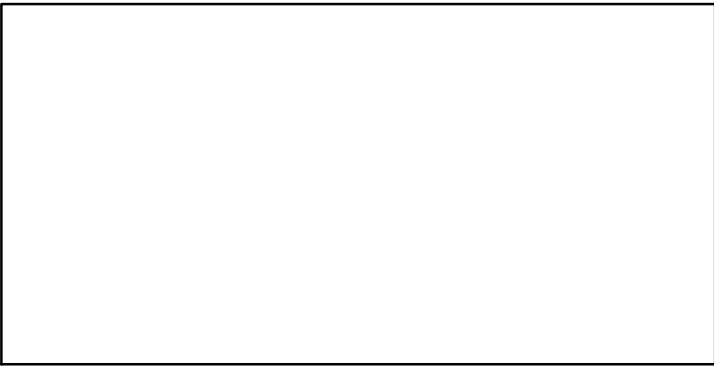
TB*



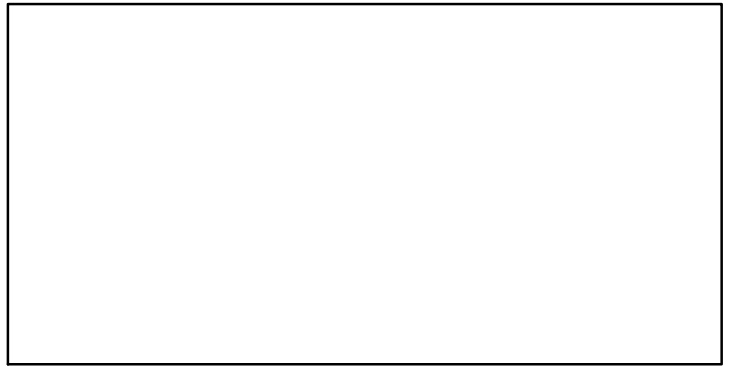
SSB*



TN *



F*



ER*



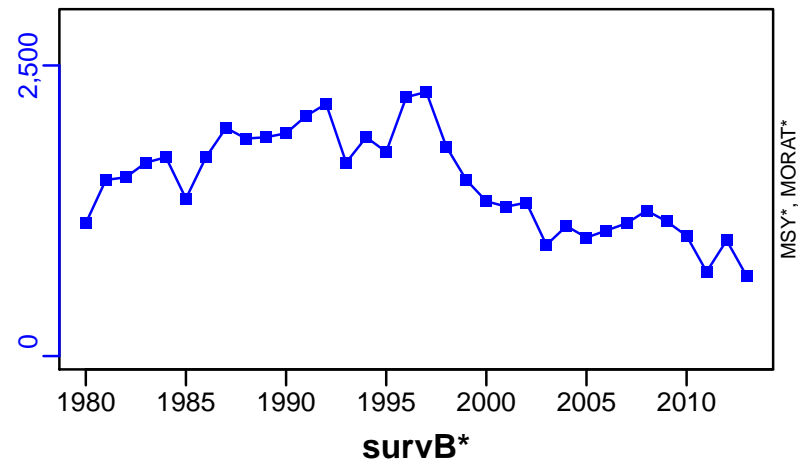
Recruits*



Deep-sea smelt Pacific Ocean [DSSMELTPAC]

TC-MT, TL*, RecC* (1980–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*

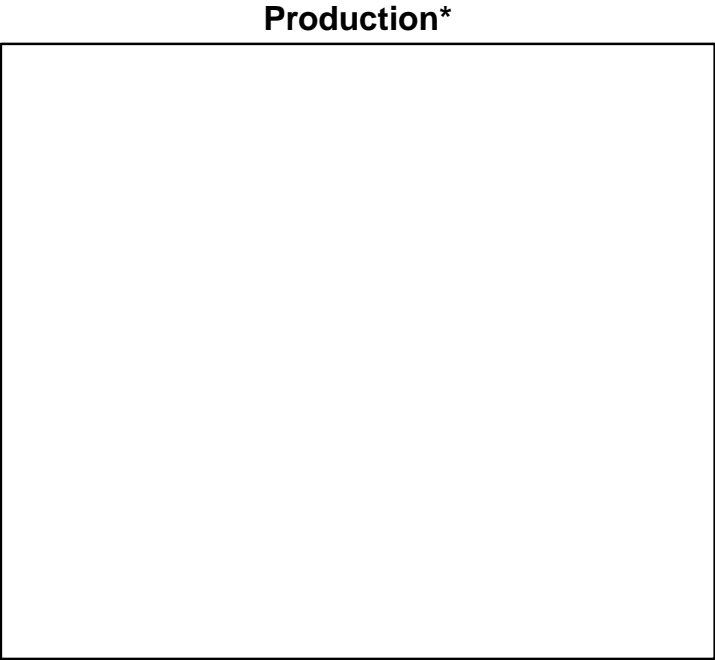
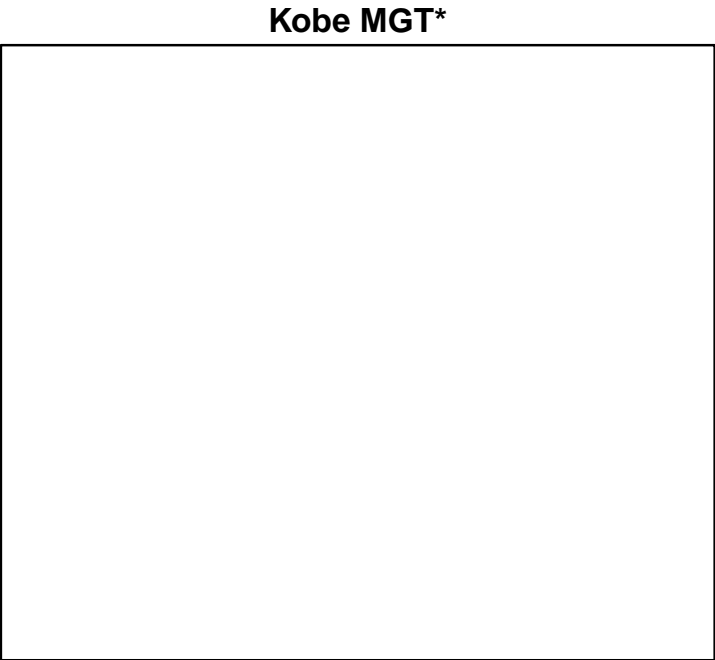
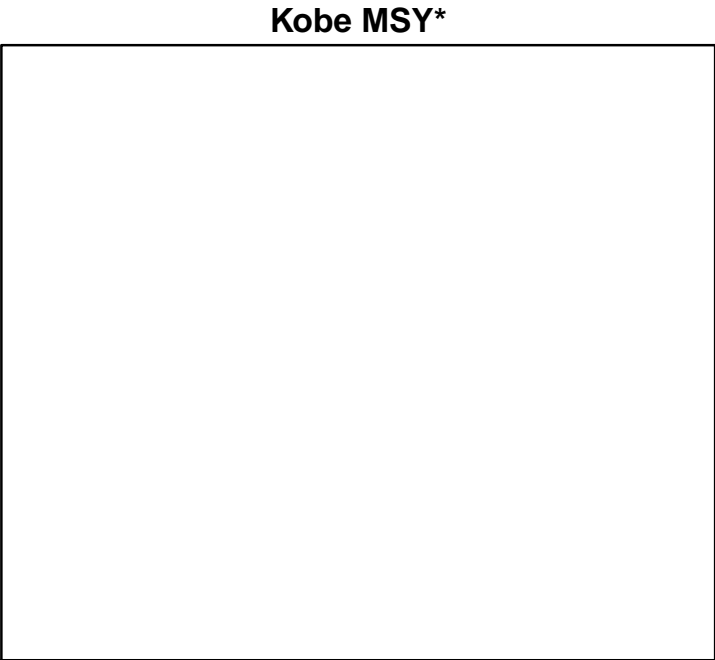


Deep-sea smelt Sea of Japan [DSSMELTSOJ]

Metadata	
Scientific Name	Glossanodon semifasciatus
Current Assess ID	FAJ-DSSMELTSOJ-1975-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	2560		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

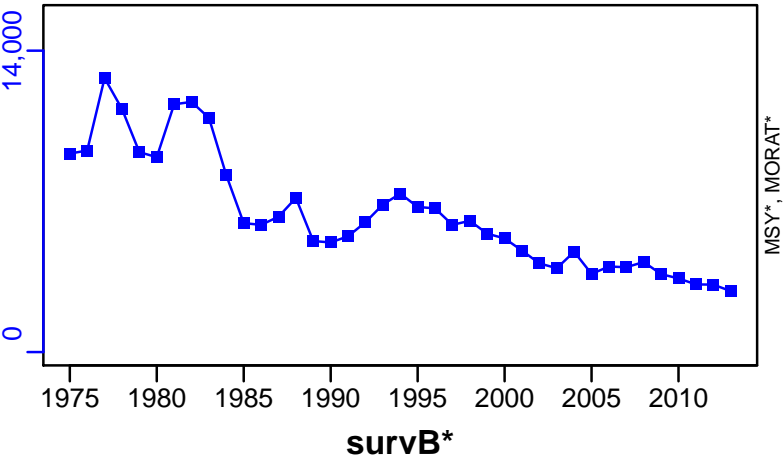


Recruits*



Deep-sea smelt Sea of Japan [DSSMELTSOJ]

TC-MT, TL*, RecC* (1975-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Flathead flounder Sea of Japan [FHFLOUNSOJ]

Metadata	
Scientific Name	Hippoglossoides dubius
Current Assess ID	FAJ-FHFLOUNSOJ-1991-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	5450		
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

Flathead flounder Sea of Japan [FHFLOUNSOJ]

TB*



SSB*



TN *



F*



ER*

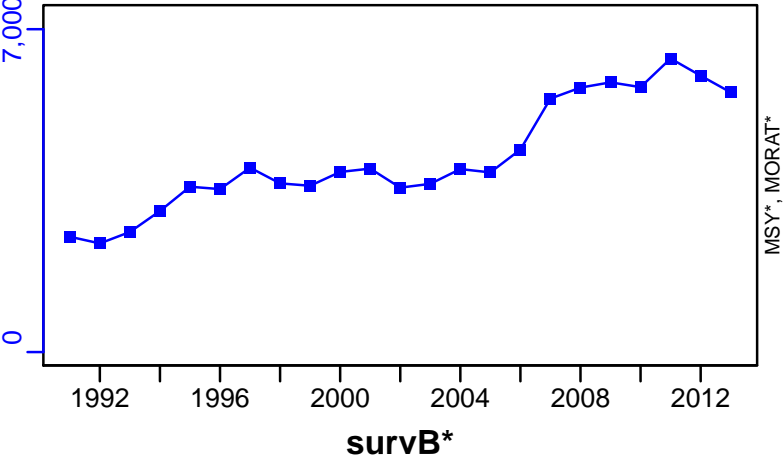


Recruits*



Flathead flounder Sea of Japan [FHFLOUNSOJ]

TC-MT, TL*, RecC* (1991-2013-JPNIMP2016)



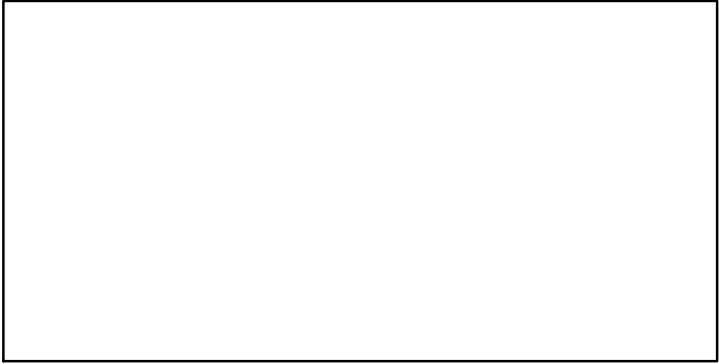
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



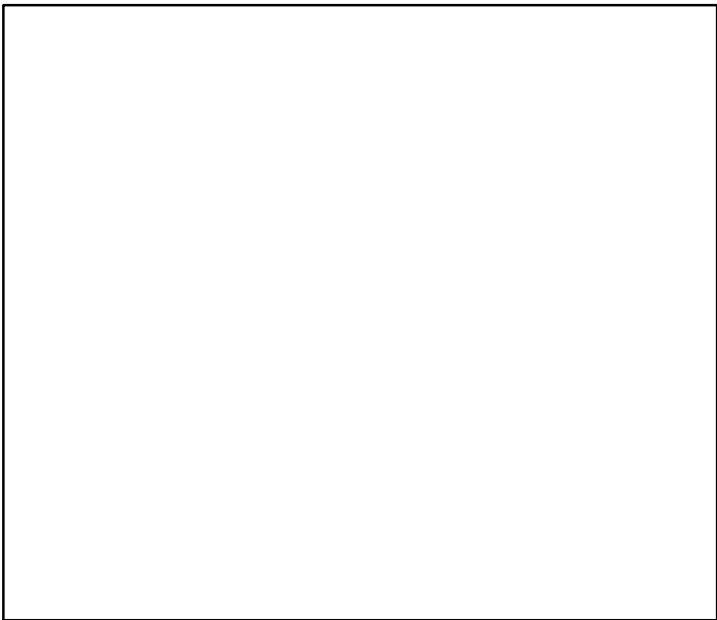
Flame snapper Okinawa Islands [FSNAPOKWI]

Metadata	
Scientific Name	Etelis coruscans
Current Assess ID	FAJ-FSNAPOKWI-1989-2013-JPNIMP2016
Area	Okinawa Islands
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

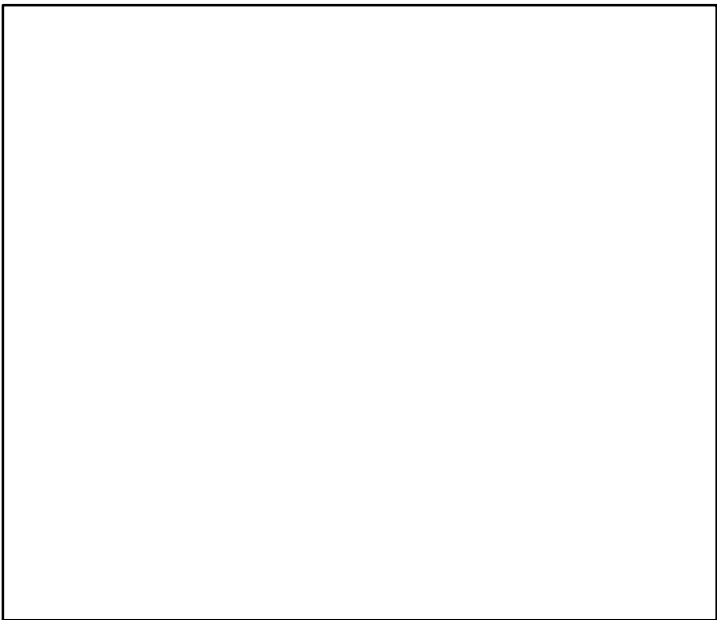
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	103		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

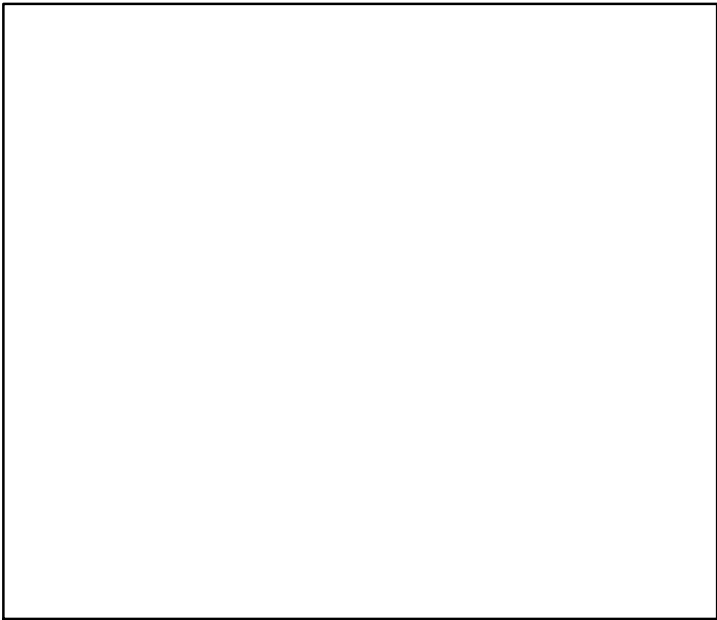
Kobe MSY*



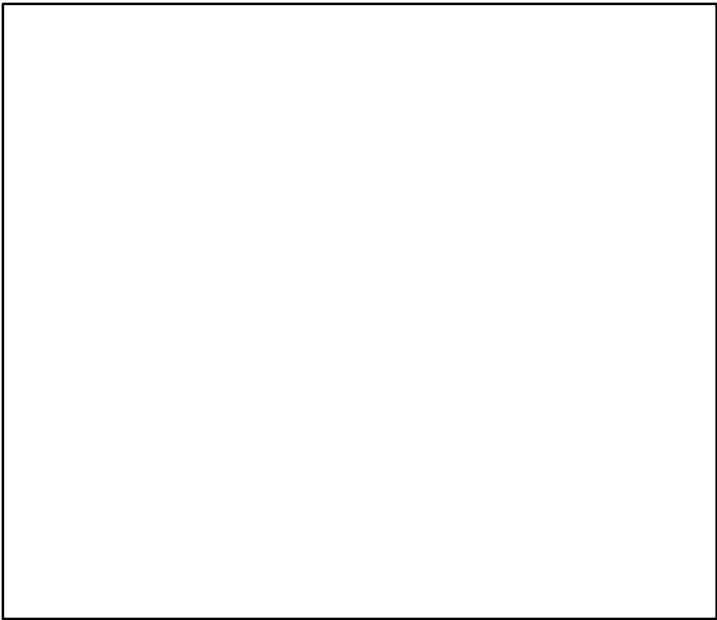
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Flame snapper Okinawa Islands [FSNAPOKWI]

TB*



SSB*



TN *



F*



ER*



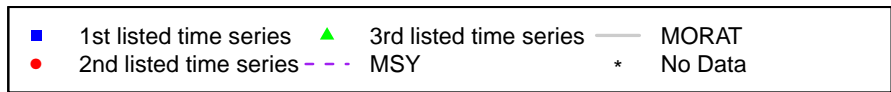
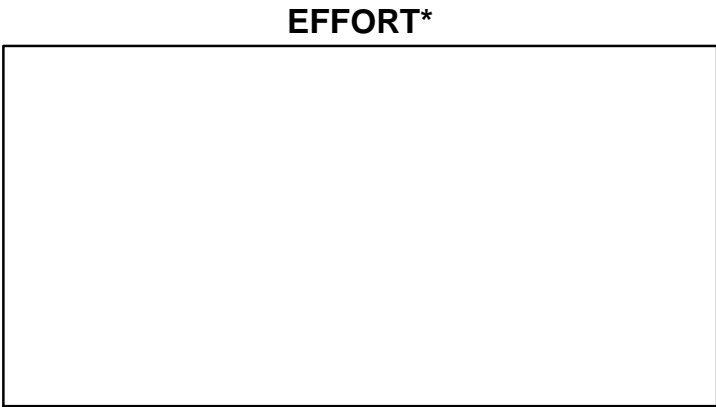
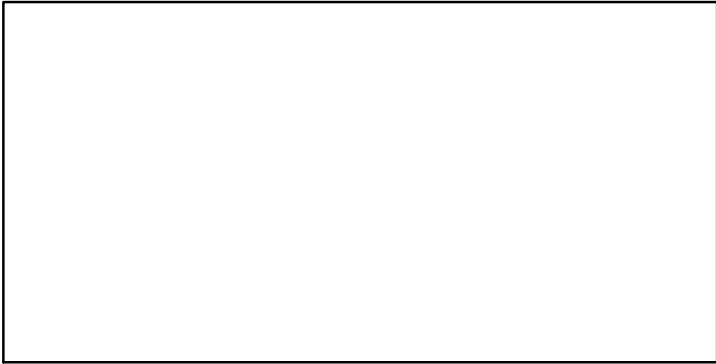
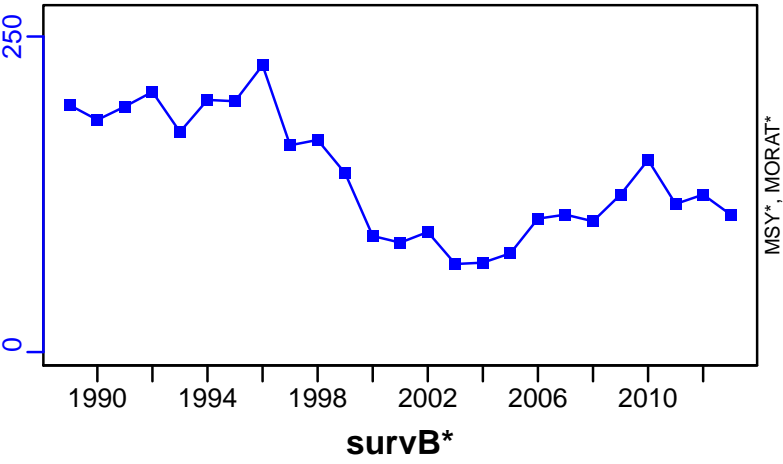
Recruits*



Flame snapper Okinawa Islands [FSNAPOKWI]

TC-MT, TL*, RecC* (1989-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



Pacific herring Hokkaido [HERRHOKK]

Metadata	
Scientific Name	Clupea pallasii
Current Assess ID	FAJ-HERRHOKK-1975-2013-JPNIMP2016
Area	Hokkaido
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	4600		
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

Pacific herring Hokkaido [HERRHOKK]

TB*



SSB*



TN *



F*



ER*

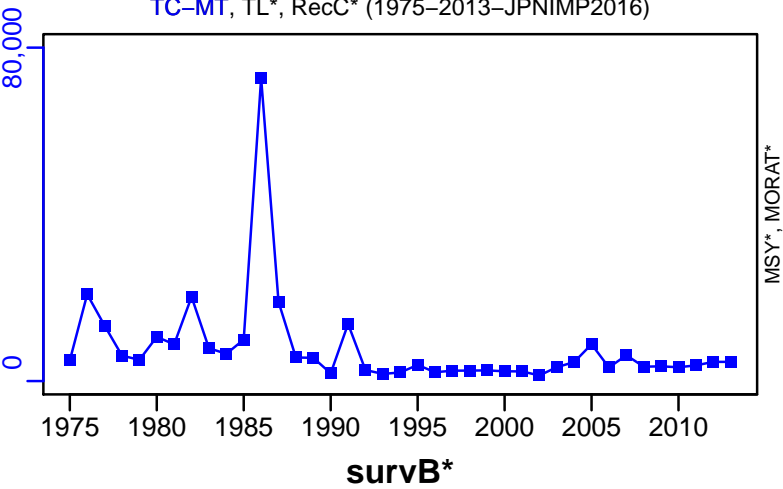


Recruits*



Pacific herring Hokkaido [HERRHOKK]

TC-MT, TL*, RecC* (1975-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



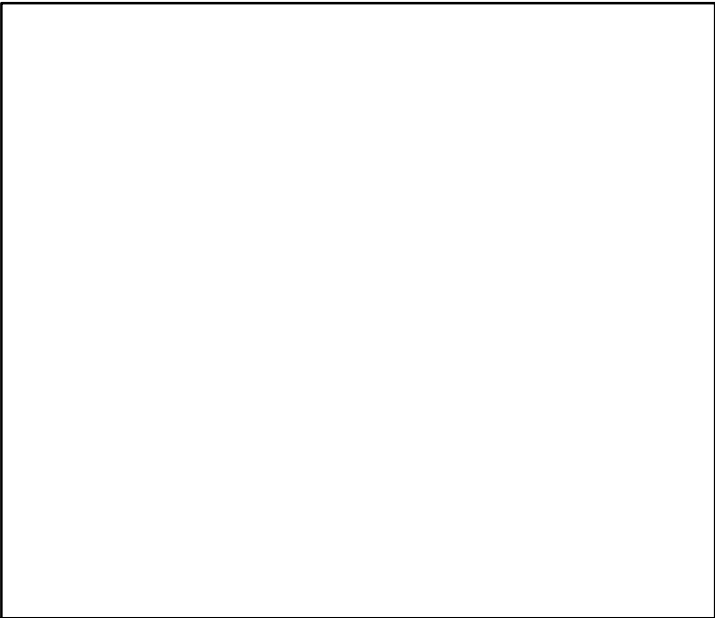
Horsehead tilefish East China Sea [HHTILEECS]

Metadata	
Scientific Name	Branchiostegus japonicus
Current Assess ID	FAJ-HHTILEECS-1985-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	611		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

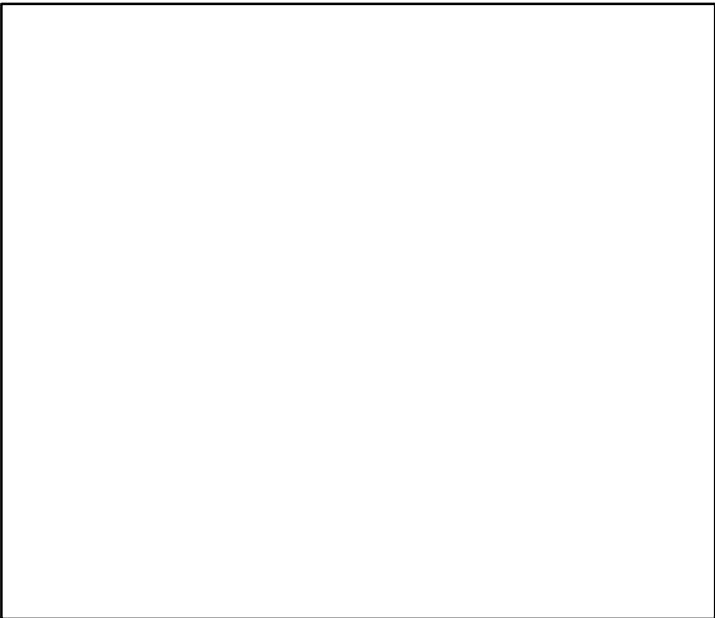
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Horsehead tilefish East China Sea [HHTILEECS]

TB*



SSB*



TN *



F*



ER*

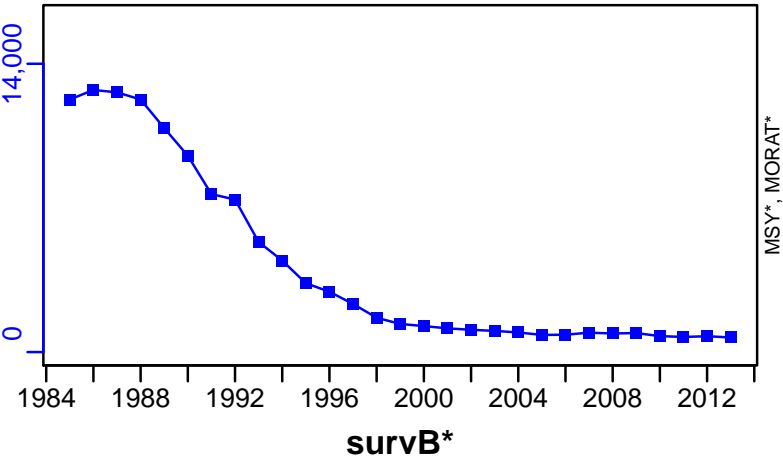


Recruits*



Horsehead tilefish East China Sea [HHTILEECS]

TC-MT, TL*, RecC* (1985-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese amberjack Japan [JAMBERJPN]

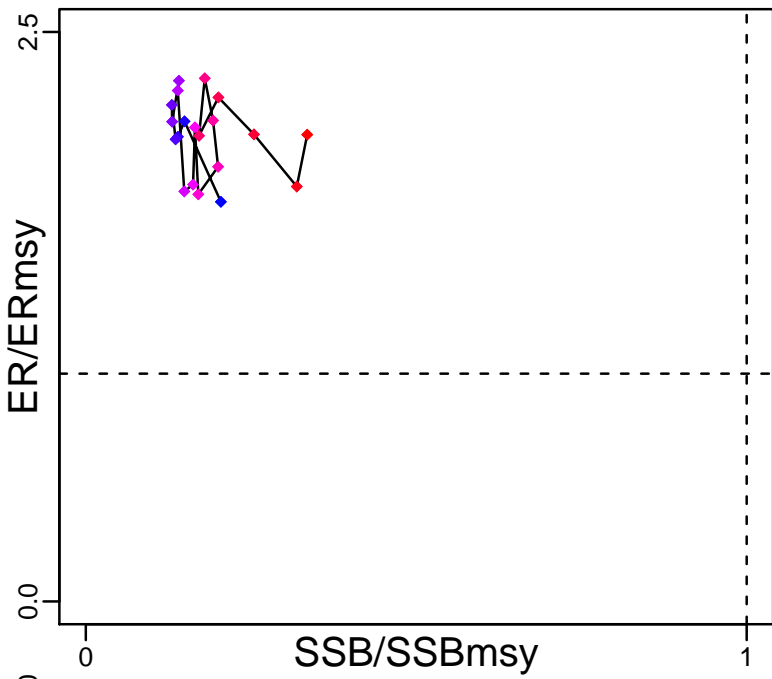
Metadata	
Scientific Name	Seriola quinqueradiata
Current Assess ID	FAJ-JAMBERJPN-1952-2013-JPNIMP2016
Area	Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	381,043
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.22
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	134,880
M	M-1/yr	2013	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

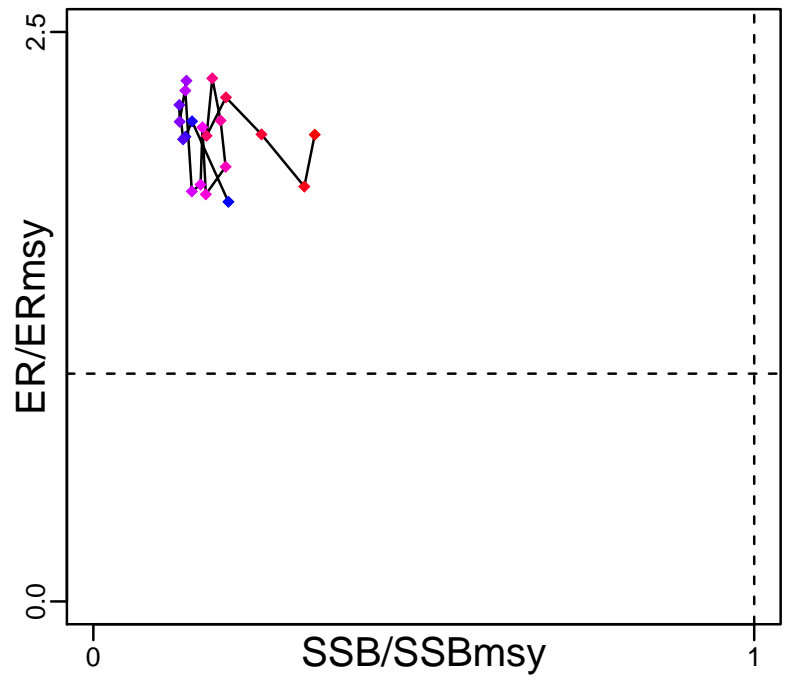
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	294,000	-	0
SSB	SSB-MT	2013	128,000	Both	2
TN	-	-	-	-	-
R	R-E00	2013	1.39×10^8	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	132,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.34		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	2.05		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese amberjack Japan [JAMBERJPN]

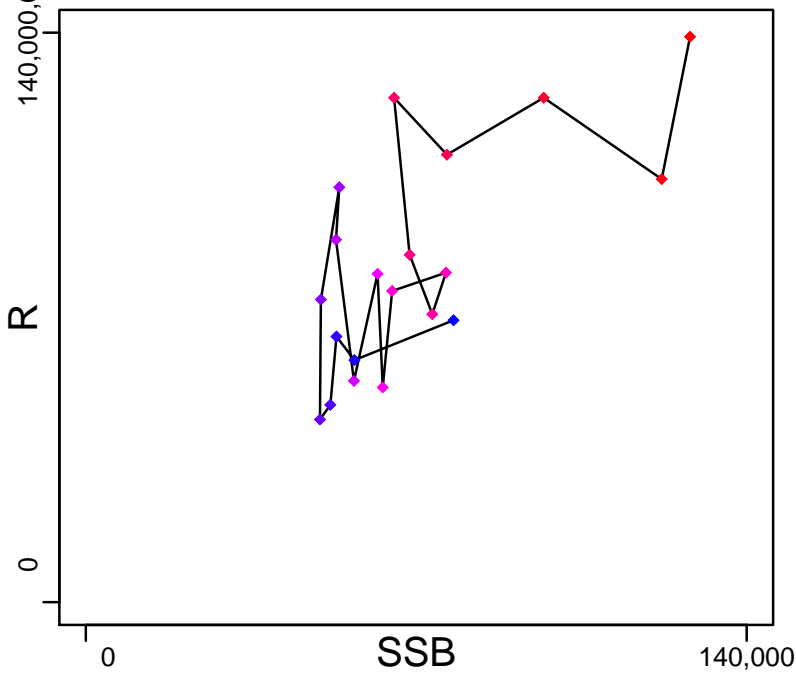
Kobe MSYpref (1952–2013–JPNIMP2016)



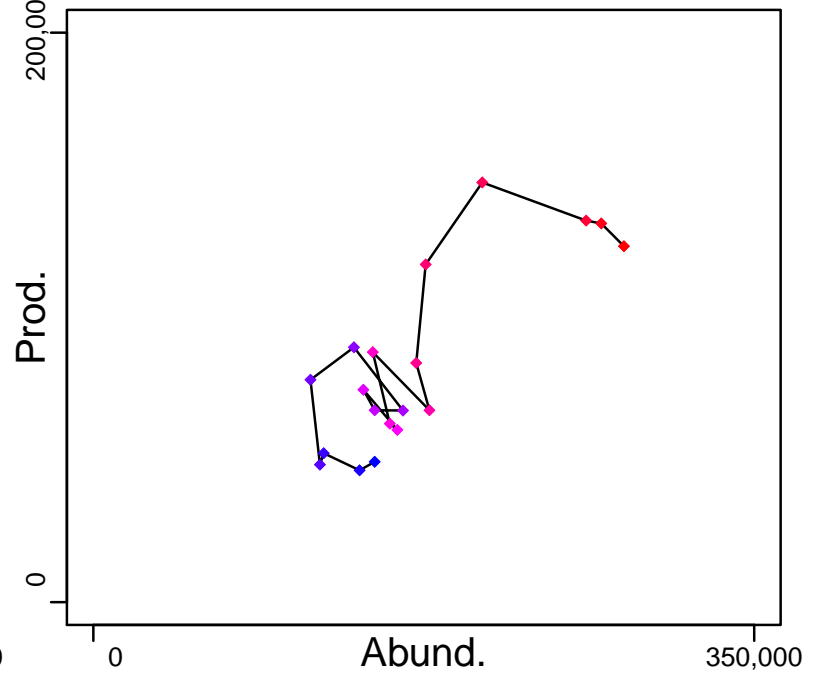
Kobe MGTpref (1952–2013–JPNIMP2016)



Spawner Recruit (1952–2013–JPNIMP2016)



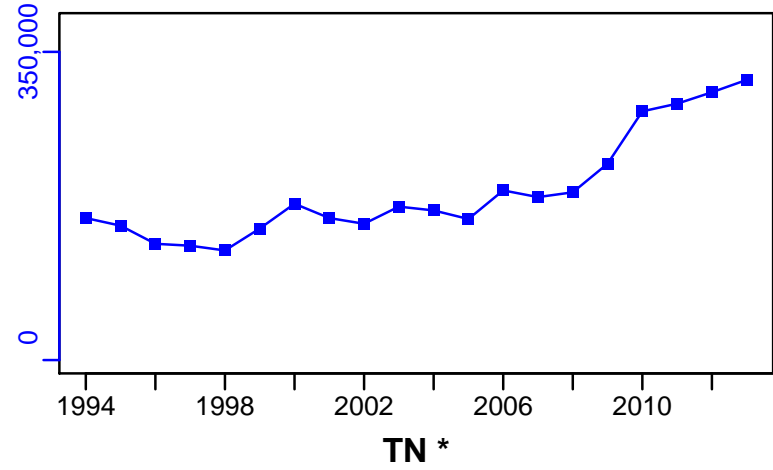
Production (1952–2013–JPNIMP2016)



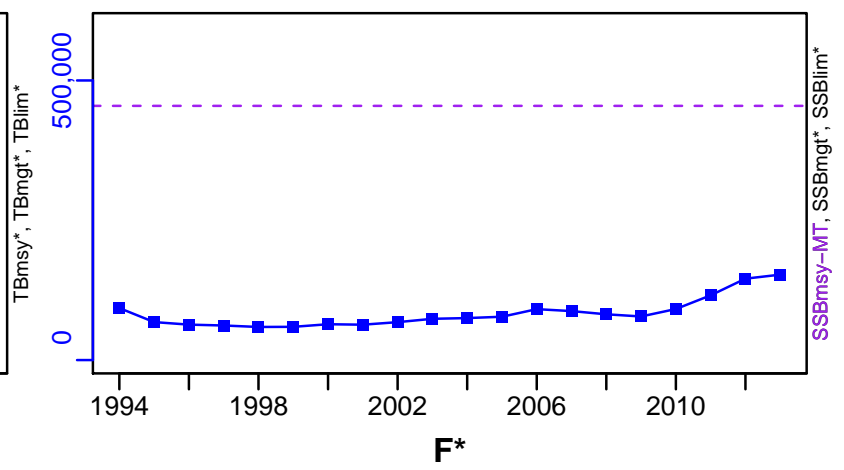
◆ Start Year ◆ End Year * No Data

Japanese amberjack Japan [JAMBERJPN]

TB-MT (1952-2013-JPNIMP2016)

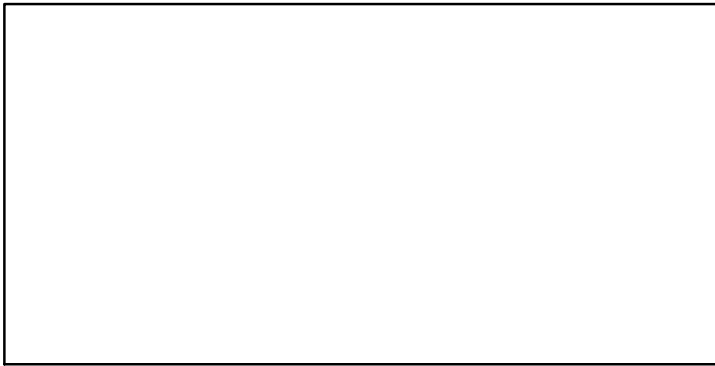


SSB-MT (1952-2013-JPNIMP2016)

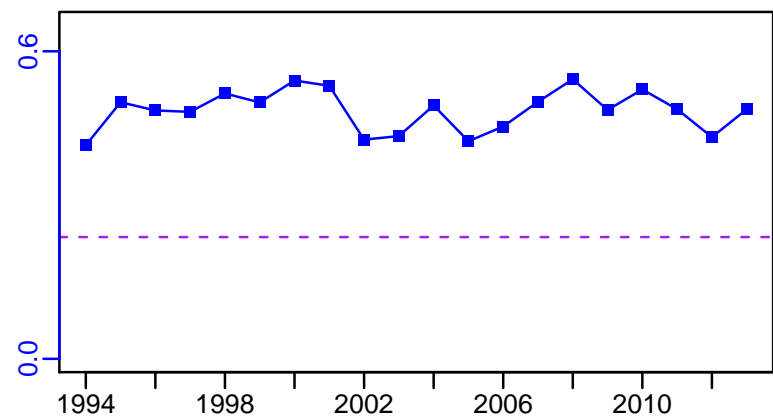


TN *

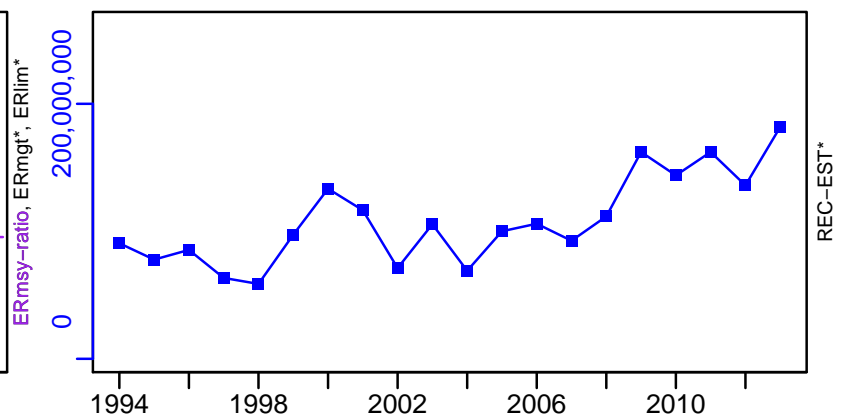
F*



ER-calc-ratio (1952-2013-JPNIMP2016)



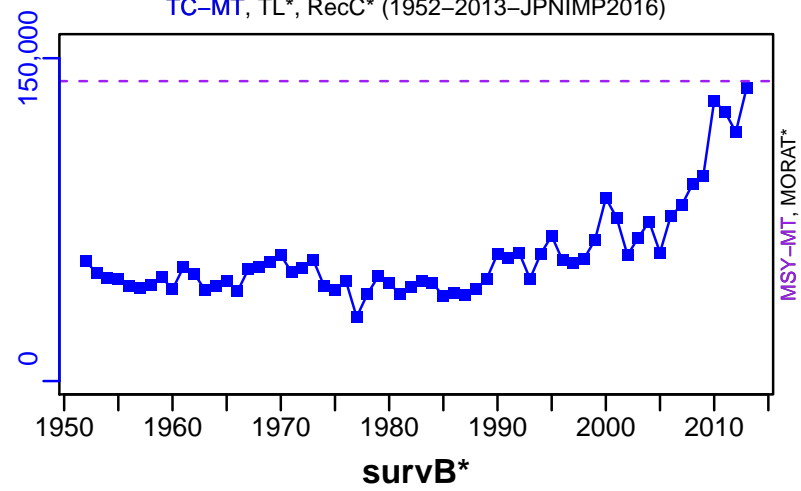
R-E00 (1952-2013-JPNIMP2016)



Japanese amberjack Japan [JAMBERJPN]

TC-MT, TL*, RecC* (1952-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Japanese anchovy Pacific Coast of Japan [JANCHOPJPN]

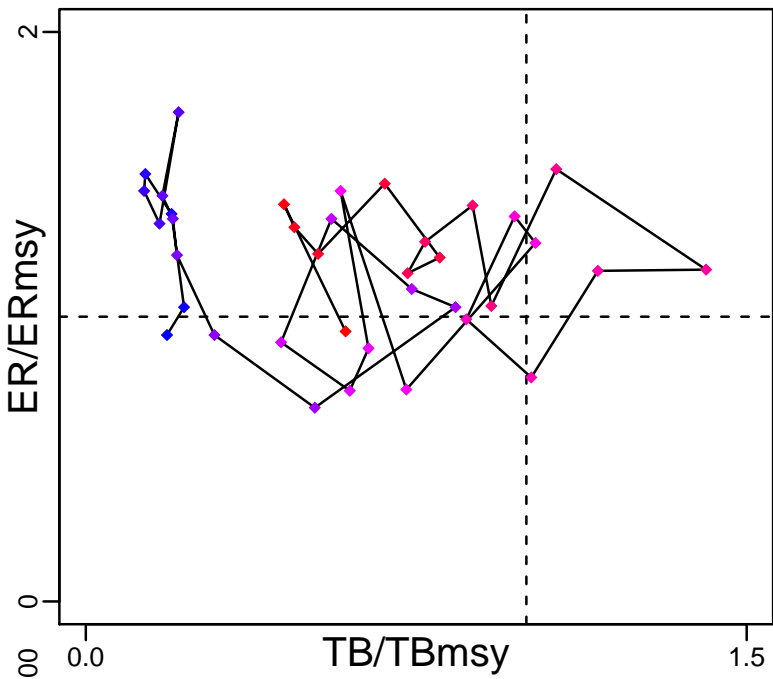
Metadata	
Scientific Name	Engraulis japonicus
Current Assess ID	FAJ-JANCHOPJPN-1978-2013-JPNIMP2016
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	1,058,258
SSBmsy	SSBmsy-MT	2013	343,019
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.45
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	265,610
M	M-1/yr	2014	1
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	130,000
Flim	-	-	-
ERlim	-	-	-

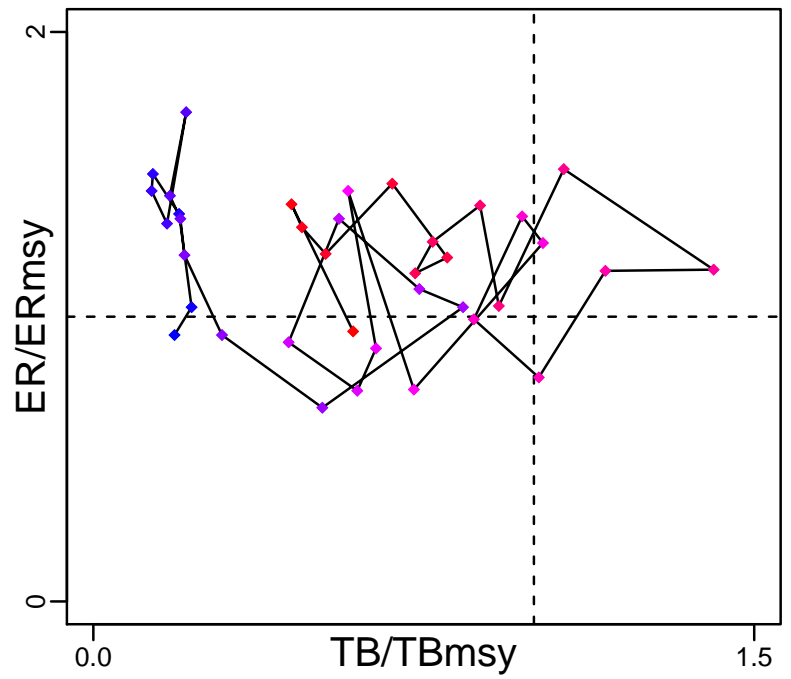
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	624,000	Both	0+
SSB	SSB-MT	2014	235,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	1.33×10^{11}	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	139,000		
TL	TL-MT	2014	139,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.59		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.17		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.55		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese anchovy Pacific Coast of Japan [JANCHOPJPN]

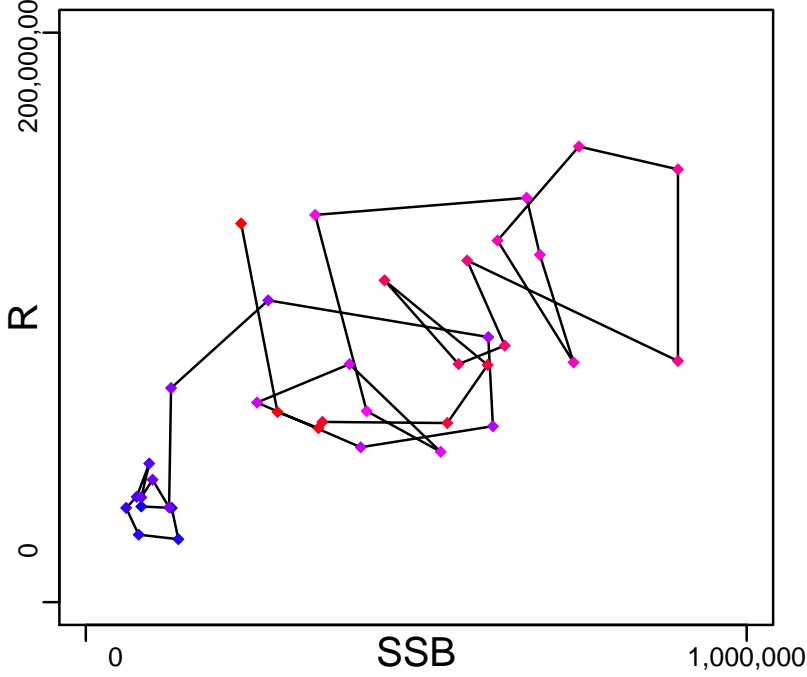
Kobe MSYpref (1978–2014–KUROTA)



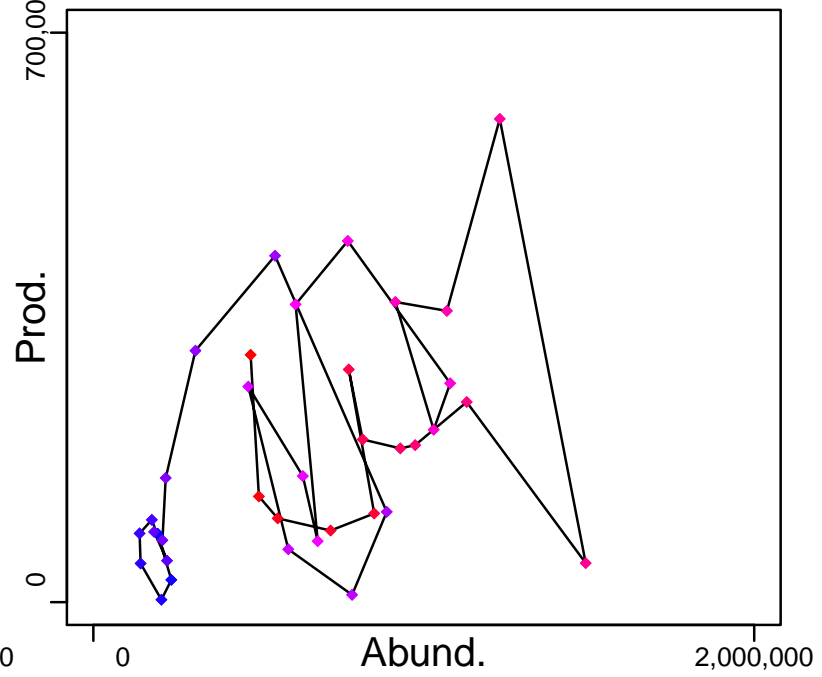
Kobe MGTpref (1978–2014–KUROTA)



Spawner Recruit (1978–2014–KUROTA)



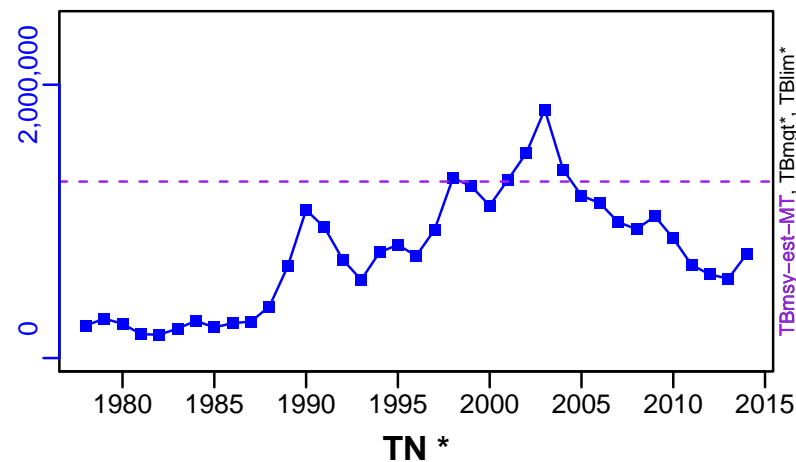
Production (1978–2014–KUROTA)



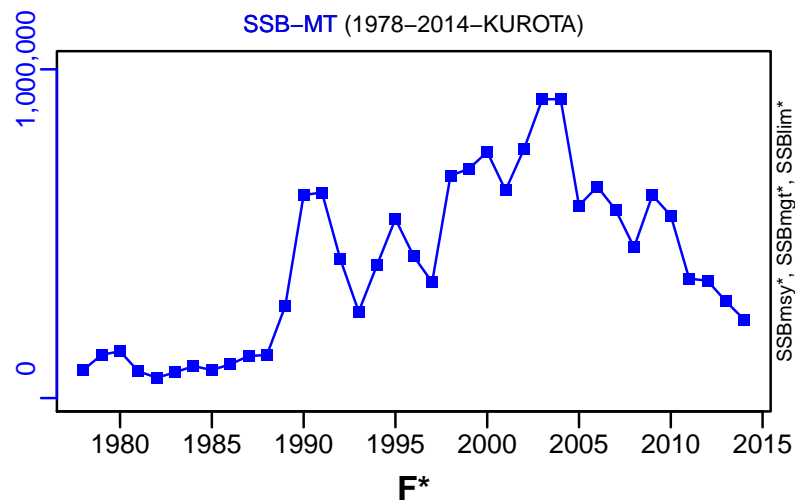
◆ Start Year ◆ End Year * No Data

Japanese anchovy Pacific Coast of Japan [JANCHOPJPN]

TB-MT (1978–2014–KUROTA)



SSB-MT (1978–2014–KUROTA)



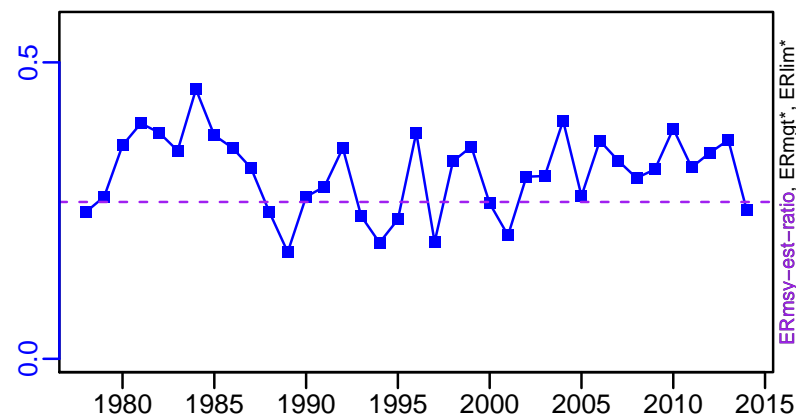
TN *



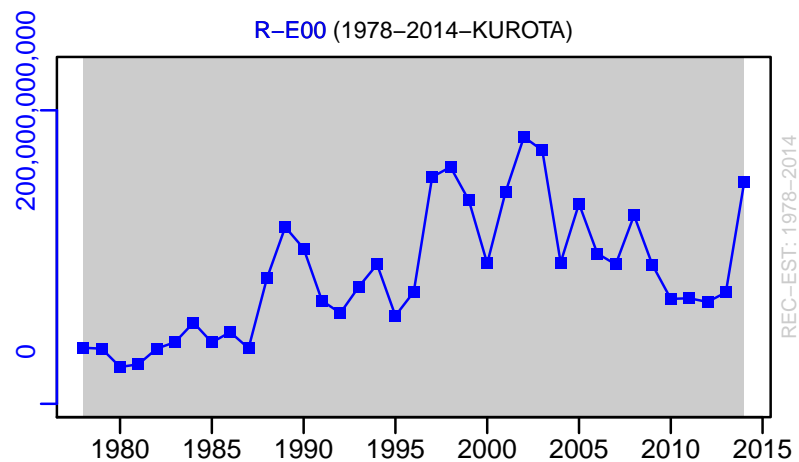
F*



ER-ratio (1978–2014–KUROTA)



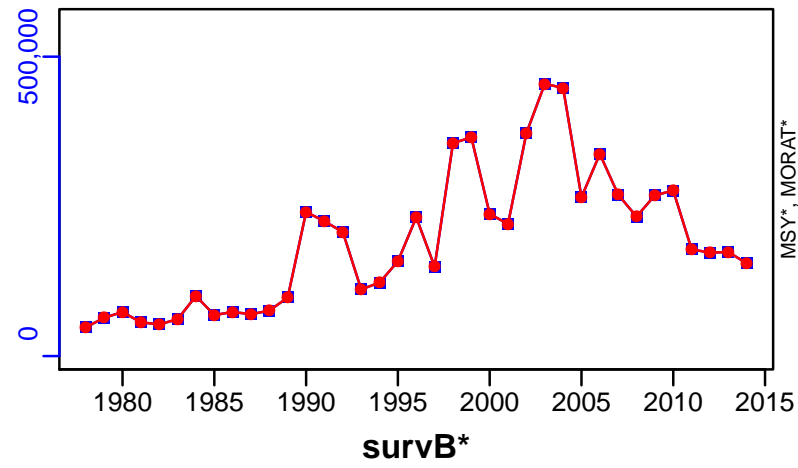
R-E00 (1978–2014–KUROTA)



Japanese anchovy Pacific Coast of Japan [JANCHOPJPN]

TC-MT, TL-MT, RecC* (1978-2014-KUROTA)

TAC*, Cpair*, Cadv*



EFFORT*



Japanese anchovy Inland Sea of Japan [JANCHOSETO]

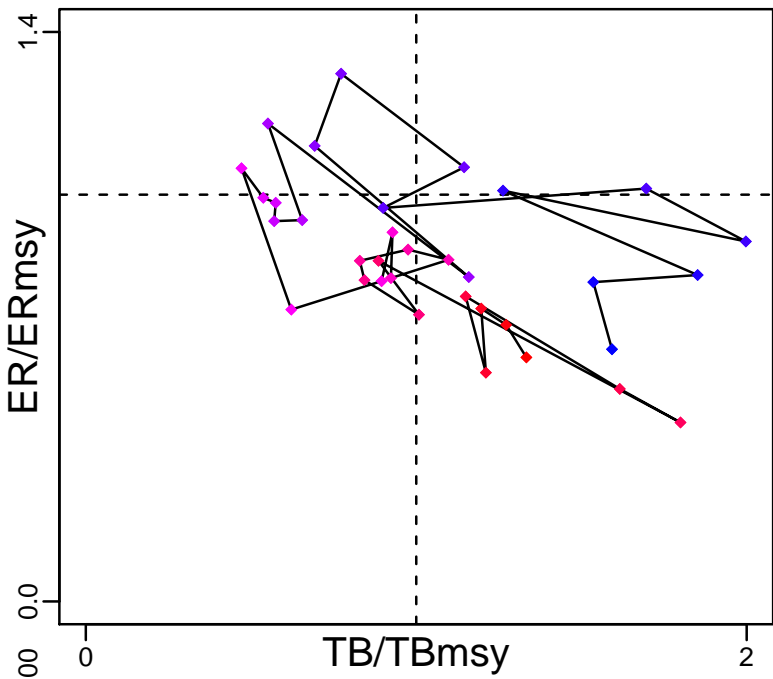
Metadata	
Scientific Name	Engraulis japonicus
Current Assess ID	FAJ-JANCHOSETO-1955-2013-JPNIMP2016
Area	Inland Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	187,524
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.37
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	69,571
M	M-1/yr	2014	2.41
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	31,000
Flim	-	-	-
ERlim	-	-	-

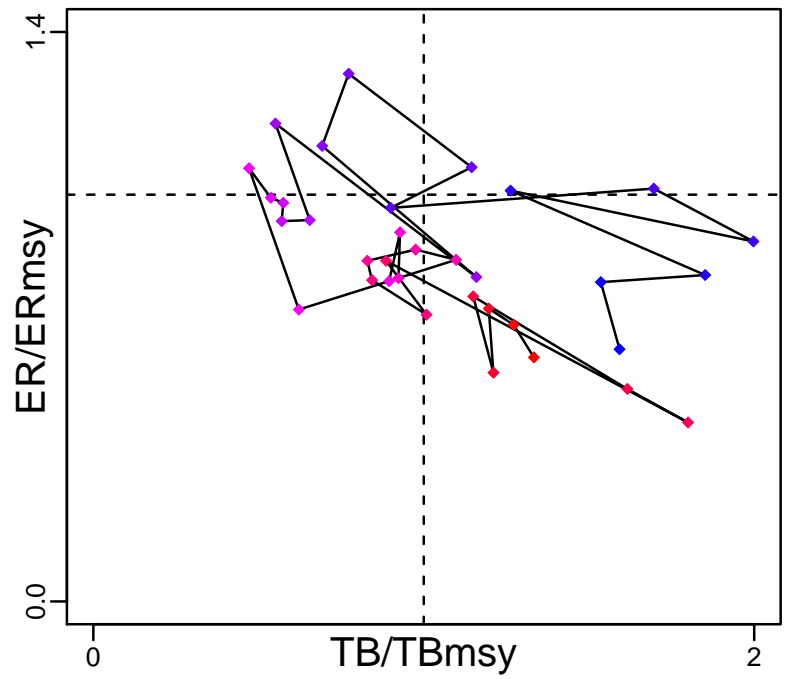
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	283,000	Both	0+
SSB	SSB-MT	2014	64,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	3.63×10^{11}	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	-	-
TC	TC-MT	2014	68,100		
TL	TL-MT	2014	68,100		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.37		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.75		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese anchovy Inland Sea of Japan [JANCHOSETO]

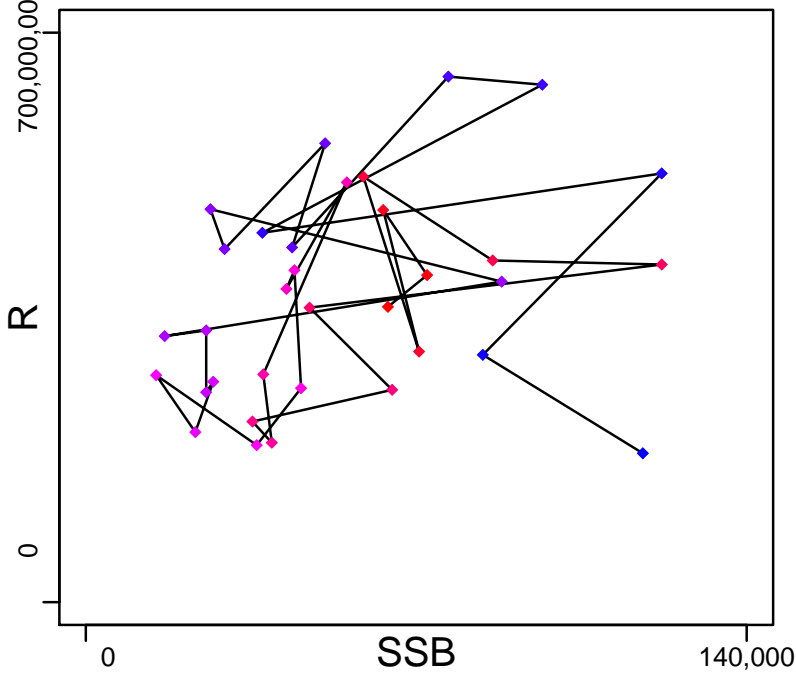
Kobe MSYpref (1955–2014–KUROTA)



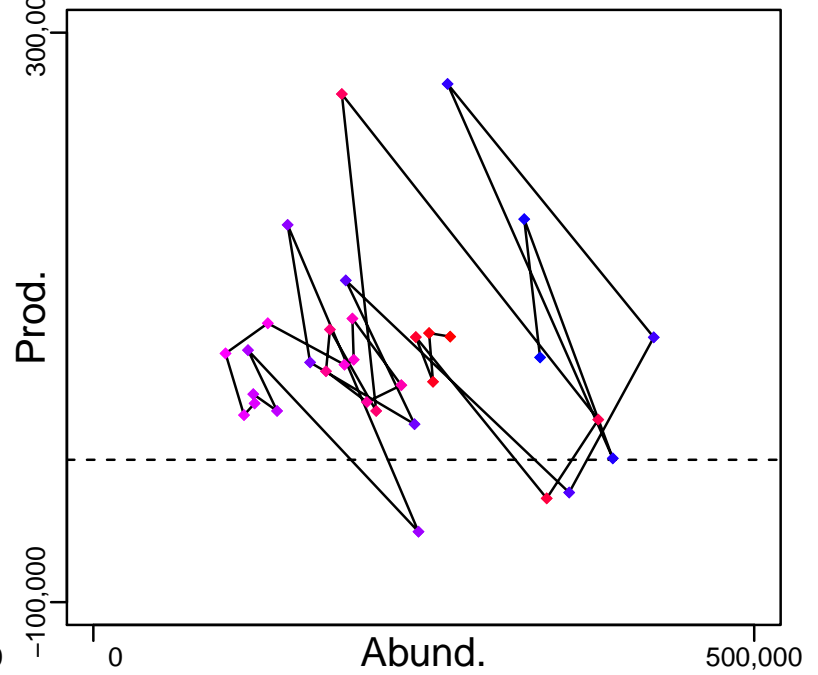
Kobe MGTpref (1955–2014–KUROTA)



Spawner Recruit (1955–2014–KUROTA)



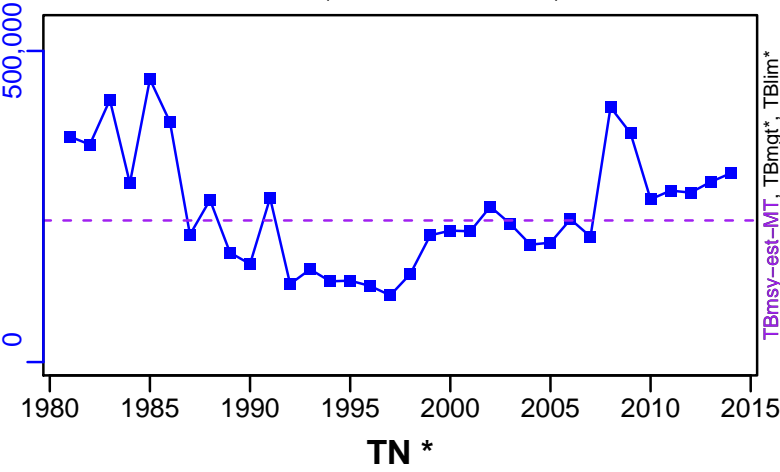
Production (1955–2014–KUROTA)



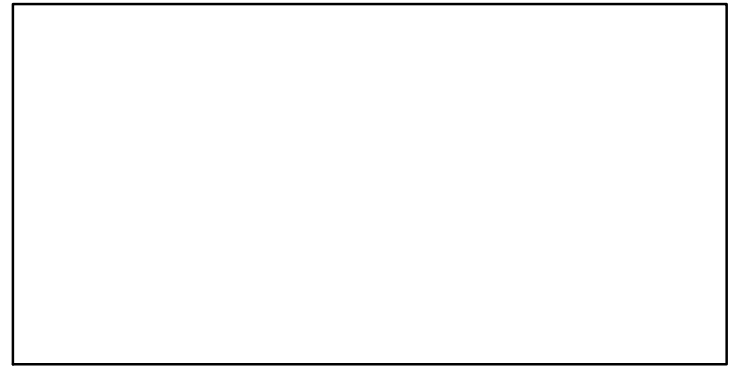
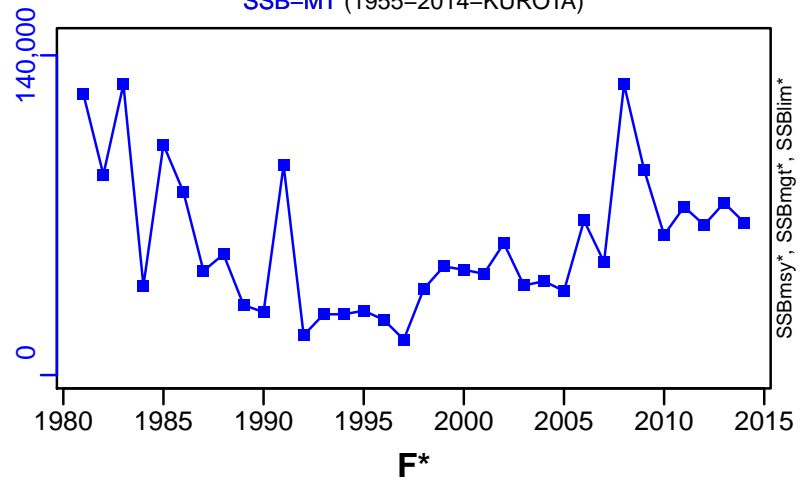
◆ Start Year ◆ End Year * No Data

Japanese anchovy Inland Sea of Japan [JANCHOSETO]

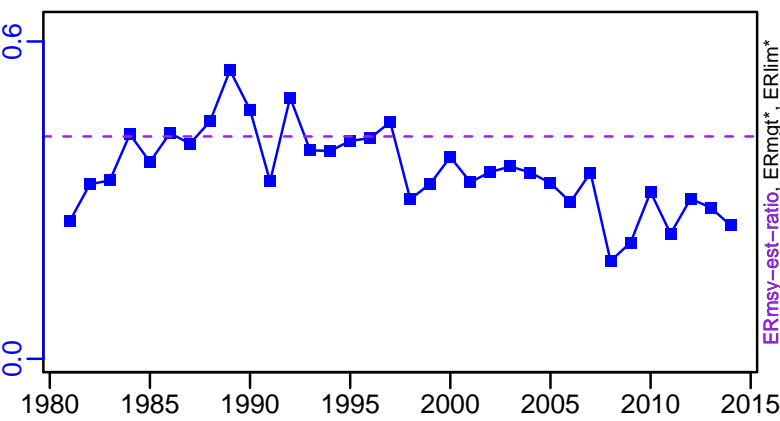
TB-MT (1955–2014–KUROTA)



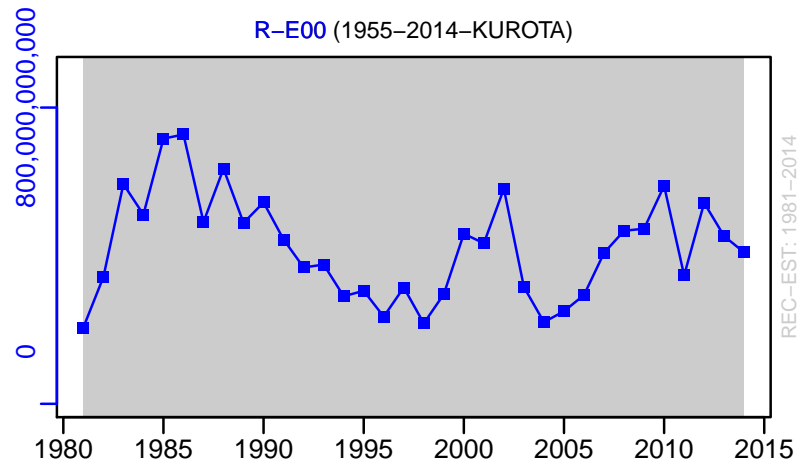
SSB-MT (1955–2014–KUROTA)



ER-ratio (1955–2014–KUROTA)



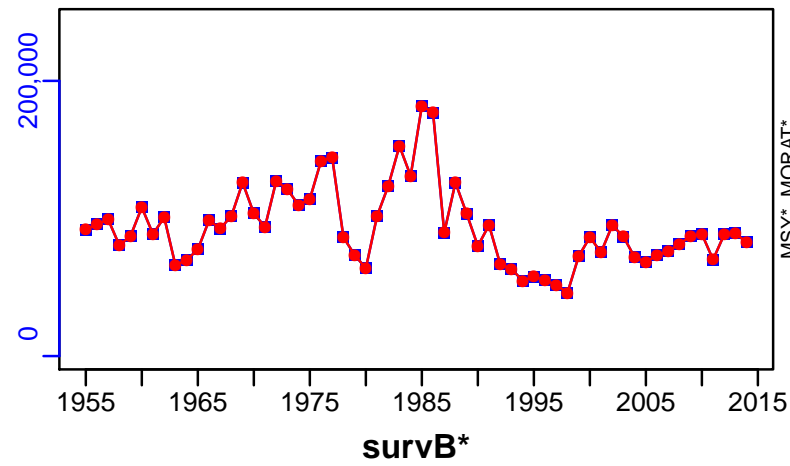
R-E00 (1955–2014–KUROTA)



Japanese anchovy Inland Sea of Japan [JANCHOSETO]

TC-MT, TL-MT, RecC* (1955-2014-KUROTA)

TAC*, Cpair*, Cadv*



EFFORT*



Japanese anchovy Tsushima Strait [JANCHOTSST]

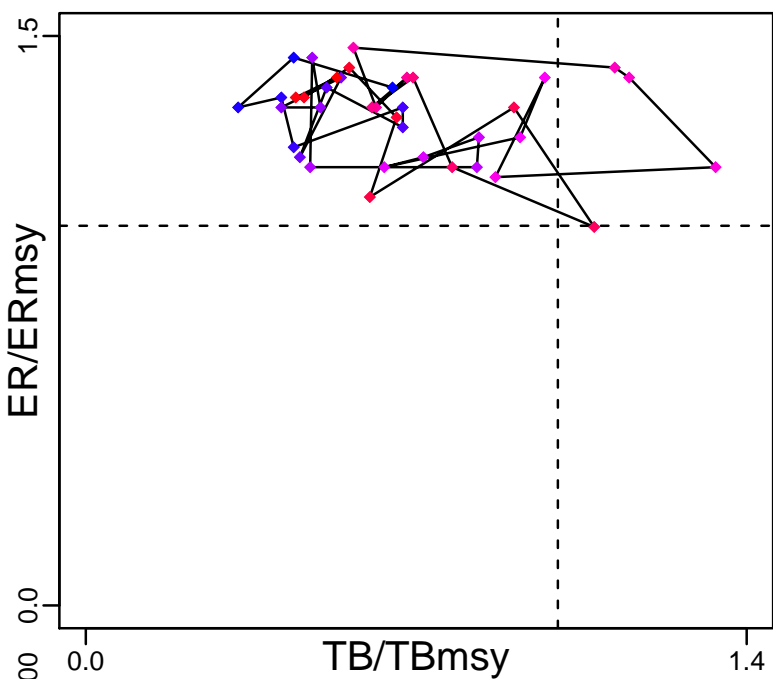
Metadata	
Scientific Name	Engraulis japonicus
Current Assess ID	FAJ-JANCHOTSST-1976-2013-JPNIMP2016
Area	Tsushima Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	229,349
SSBmsy	SSBmsy-MT	2013	338,932
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.37
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	149,715
M	M-1/yr	2014	1
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	91,000
Flim	-	-	-
ERlim	-	-	-

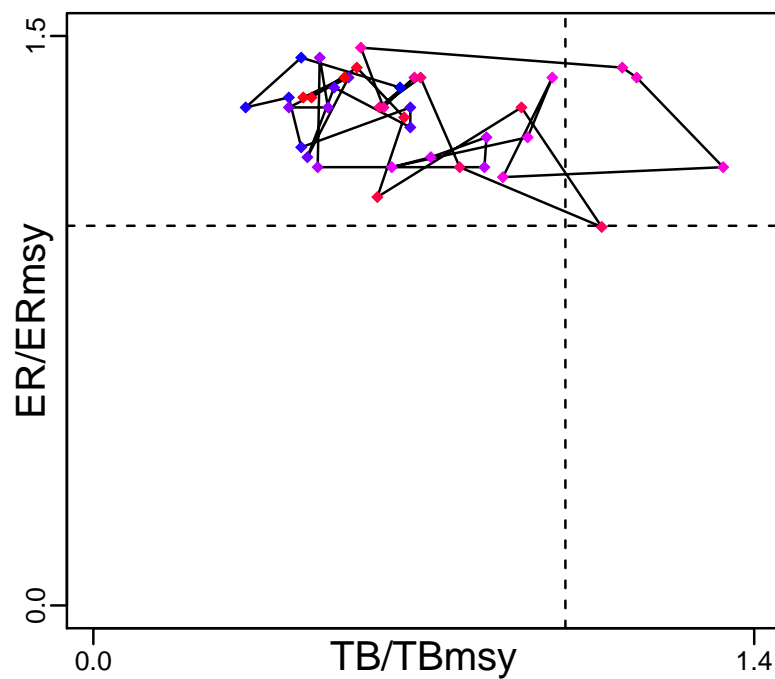
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	122,000	Both	0+
SSB	SSB-MT	2014	82,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	5.61×10^{10}	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	1	Both	0+
TC	TC-MT	2014	64,600		
TL	TL-MT	2014	64,600		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.53		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.21		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.31		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese anchovy Tsushima Strait [JANCHOTSST]

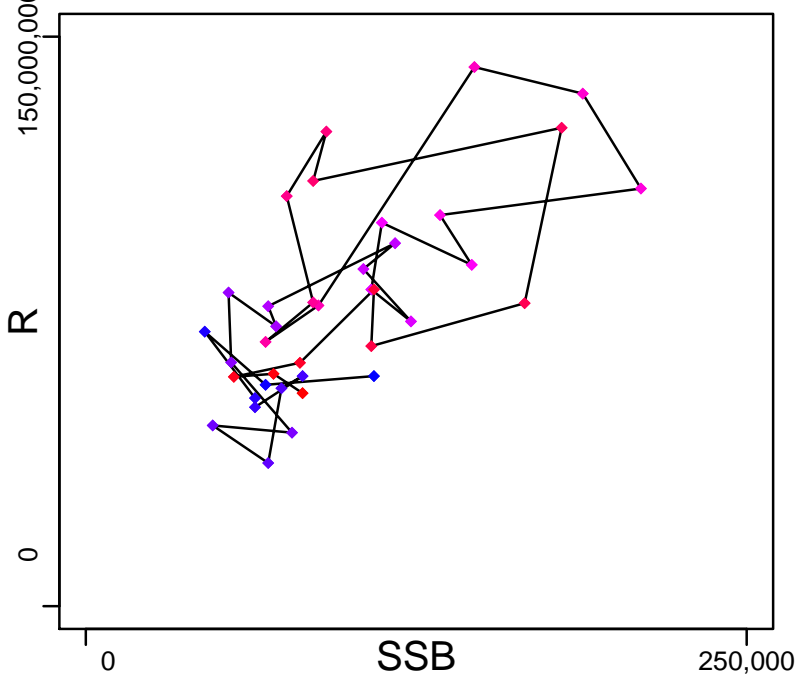
Kobe MSYpref (1977–2014–KUROTA)



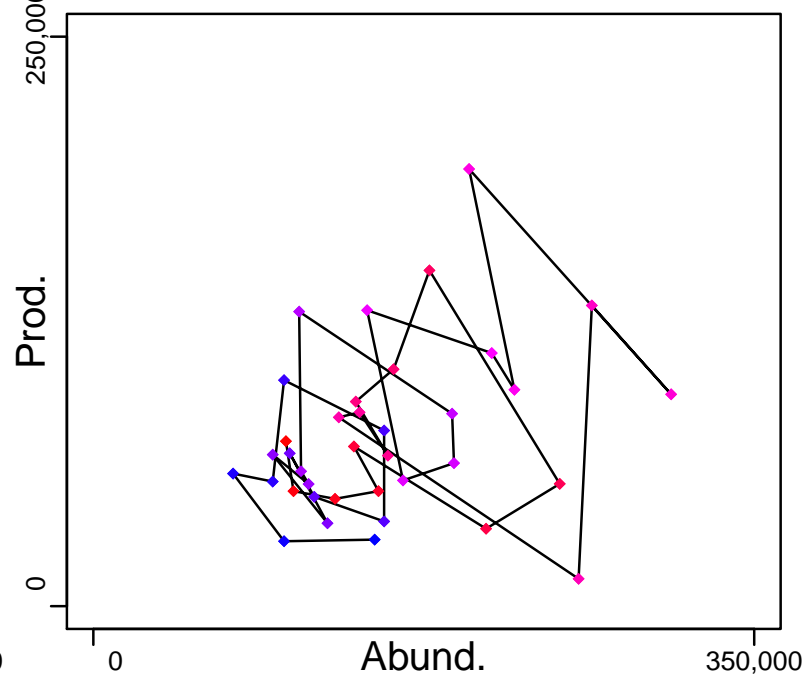
Kobe MGTpref (1977–2014–KUROTA)



Spawner Recruit (1977–2014–KUROTA)



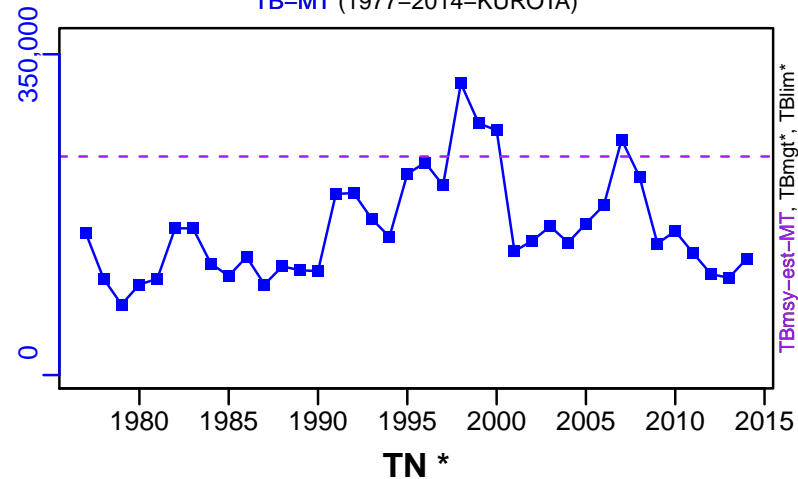
Production (1977–2014–KUROTA)



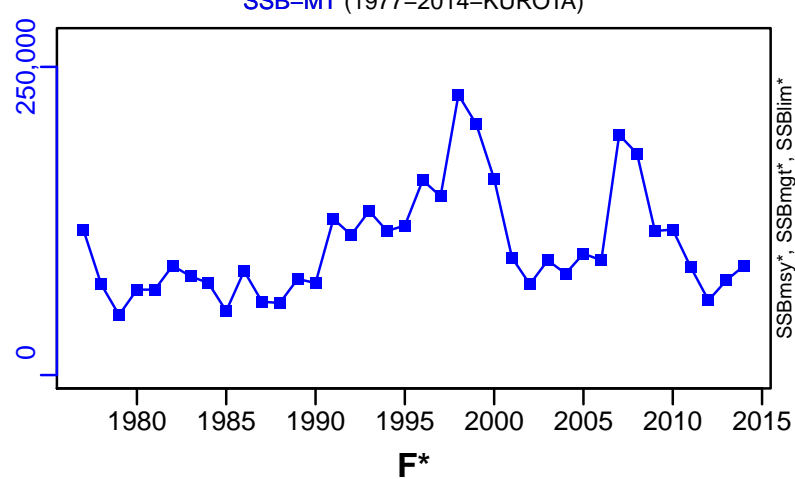
◆ Start Year ◆ End Year * No Data

Japanese anchovy Tsushima Strait [JANCHOTSST]

TB-MT (1977-2014-KUROTA)



SSB-MT (1977-2014-KUROTA)

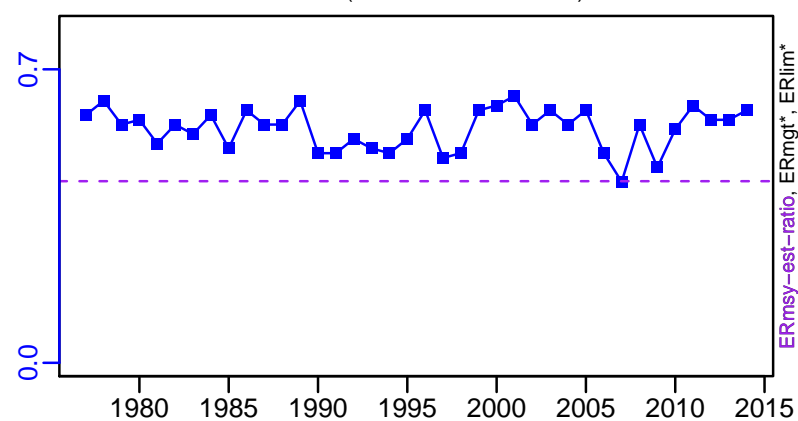


TN *

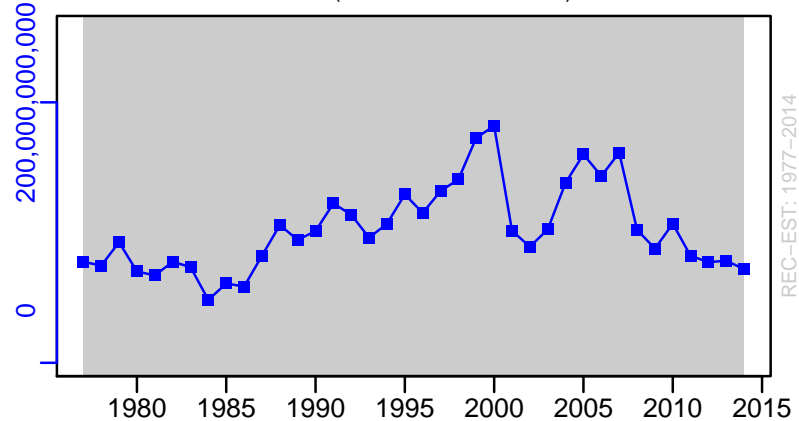
F*



ER-ratio (1977-2014-KUROTA)



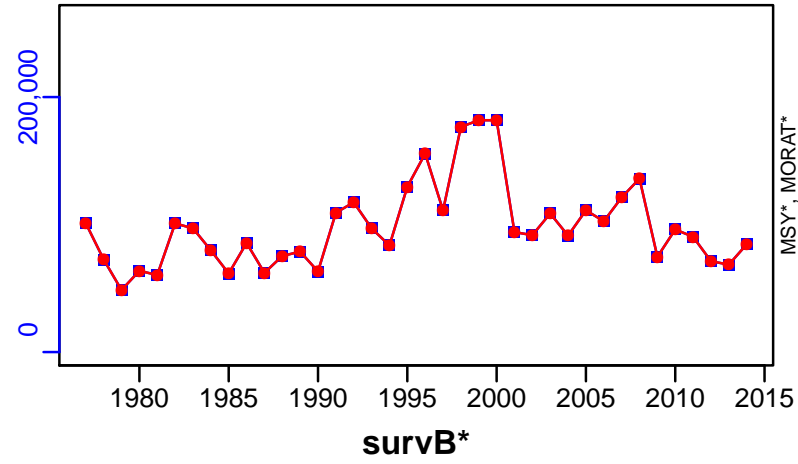
R-E00 (1977-2014-KUROTA)



Japanese anchovy Tsushima Strait [JANCHOTSST]

TC-MT, TL-MT, RecC* (1977-2014-KUROTA)

TAC*, Cpair*, Cadv*



EFFORT*



Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

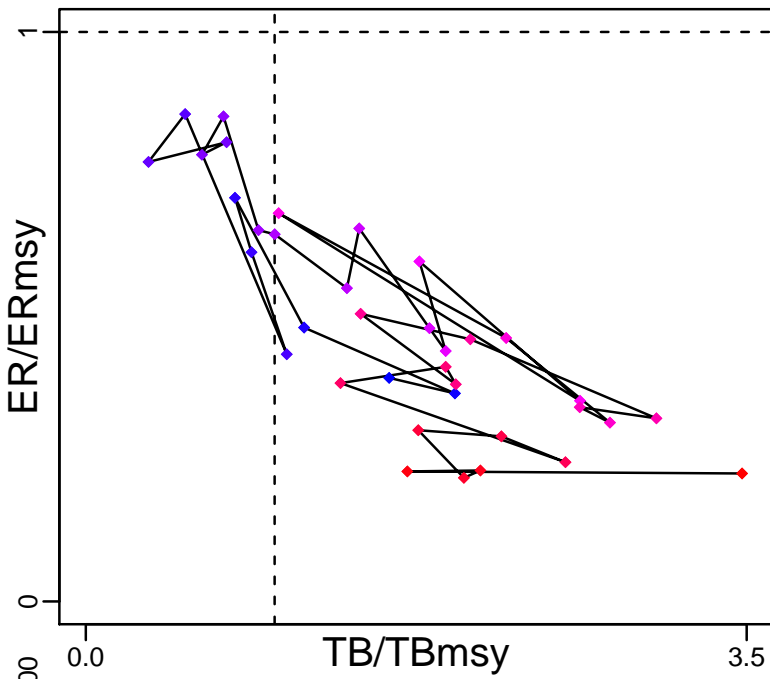
Metadata	
Scientific Name	Todarodes pacificus
Current Assess ID	FAJ-JCSQUIDJPNAR-1979-2014-JPNIMP2016
Area	Japan Autumn recruitment
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2014	674,723
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.45
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2014	300,926
M	M-1/yr	2014	1.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

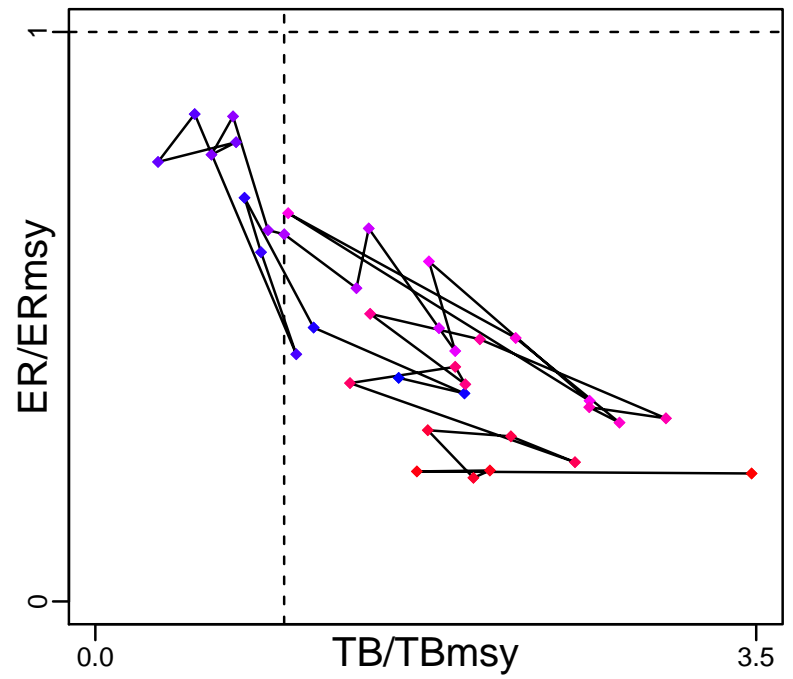
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	2,350,000	-	0.5
SSB	SSB-MT	2014	1,110,000	Both	0.5
TN	-	-	-	-	-
R	R-E00	2014	8.37×10^9	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	235,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	3.48		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

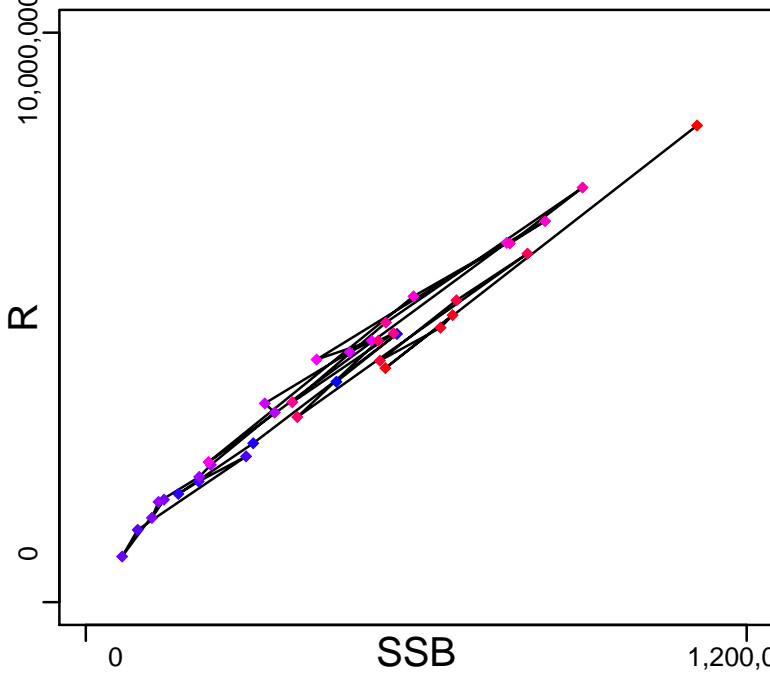
Kobe MSYpref (1979–2014–JPNIMP2016)



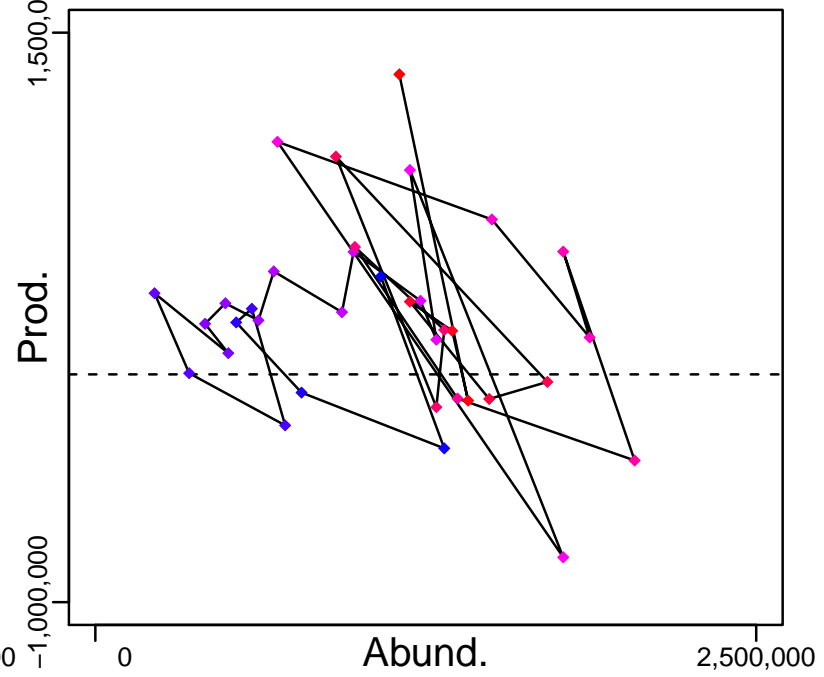
Kobe MGTpref (1979–2014–JPNIMP2016)



Spawner Recruit (1979–2014–JPNIMP2016)



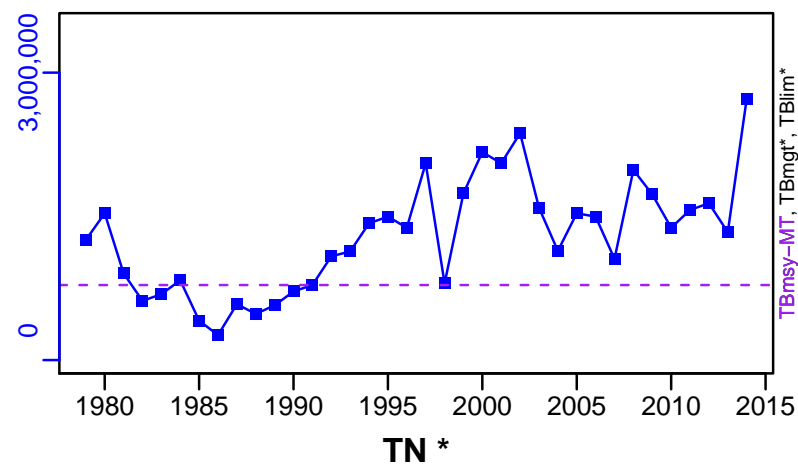
Production (1979–2014–JPNIMP2016)



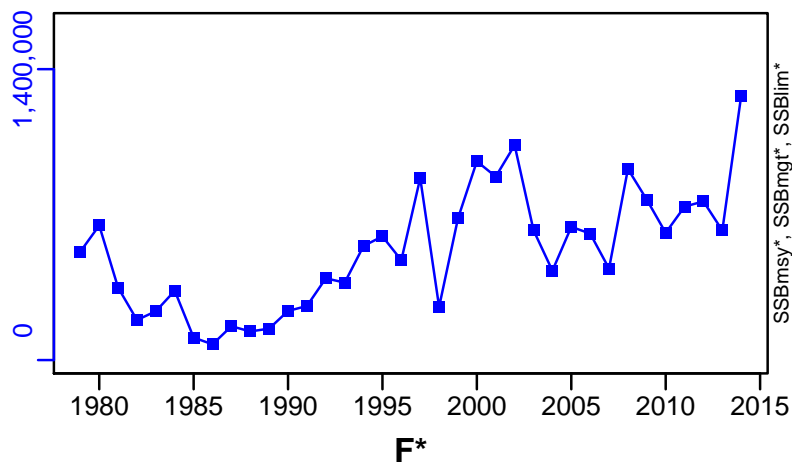
◆ Start Year ◆ End Year * No Data

Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

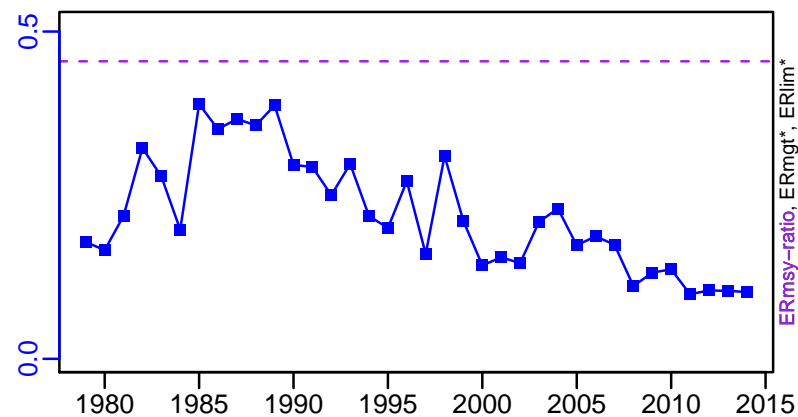
TB-MT (1979–2014–JPNIMP2016)



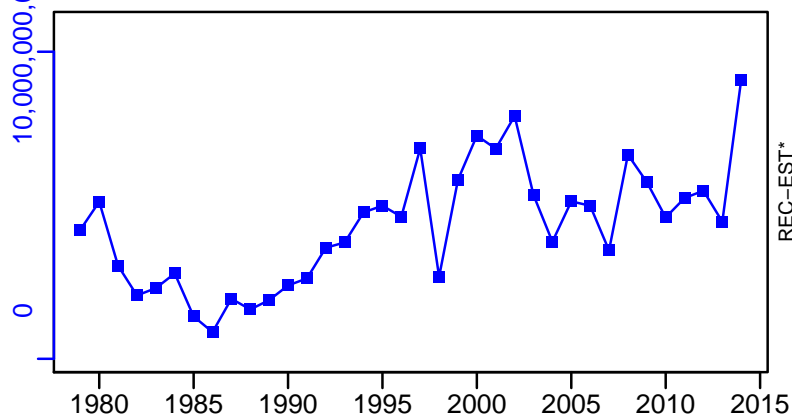
SSB-MT (1979–2014–JPNIMP2016)



ER-calc-ratio (1979–2014–JPNIMP2016)

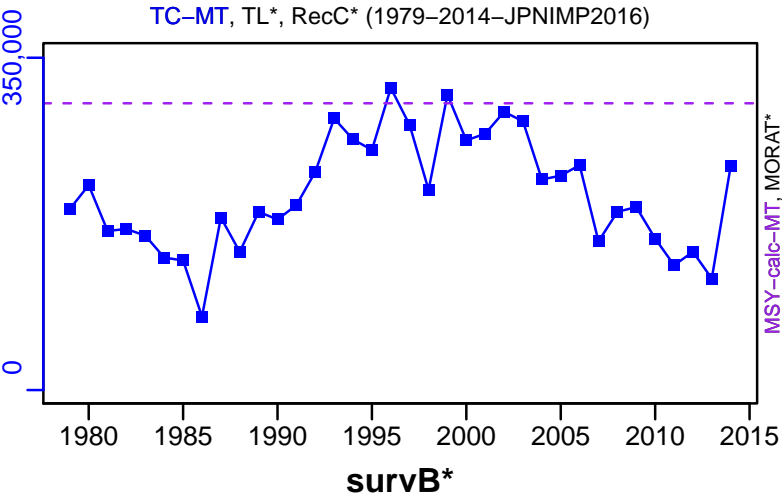


R-E00 (1979–2014–JPNIMP2016)



Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]

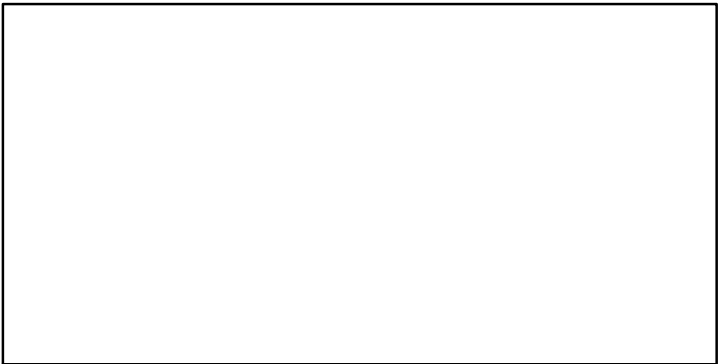
TC-MT, TL*, RecC* (1979-2014-JPNIMP2016)



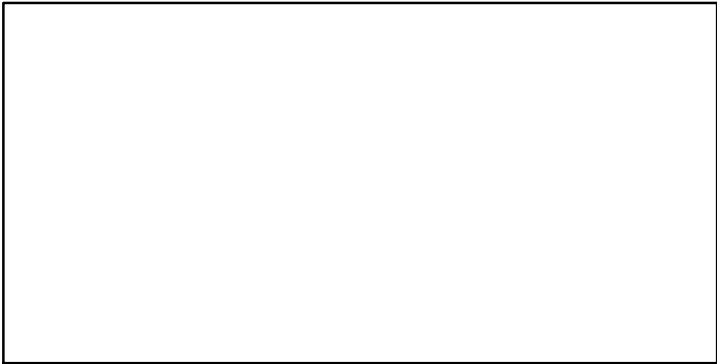
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

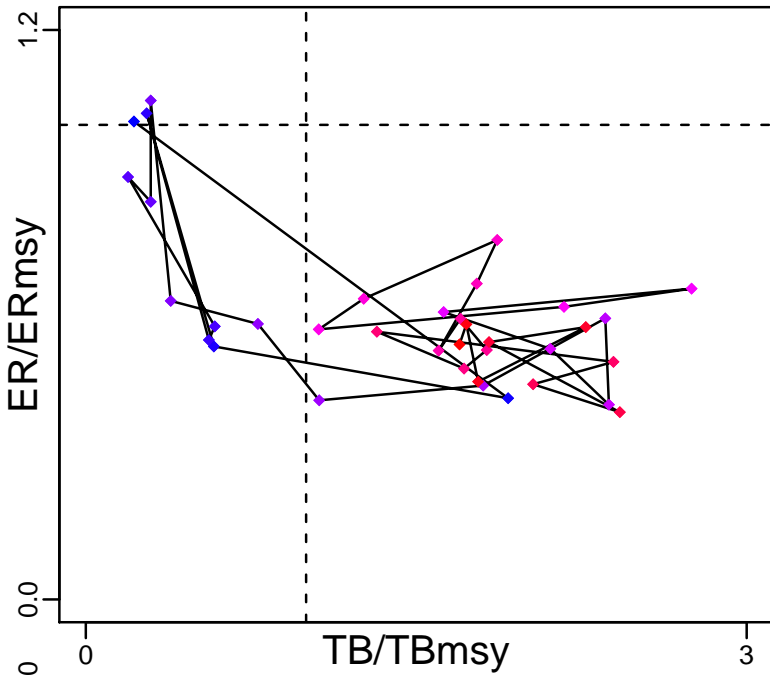
Metadata	
Scientific Name	Todarodes pacificus
Current Assess ID	FAJ-JCSQUIDJPNWR-1979-2014-JPNIMP2016
Area	Japan Winter recruitment
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2014	485,117
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.46
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2014	222,669
M	M-1/yr	2014	1.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

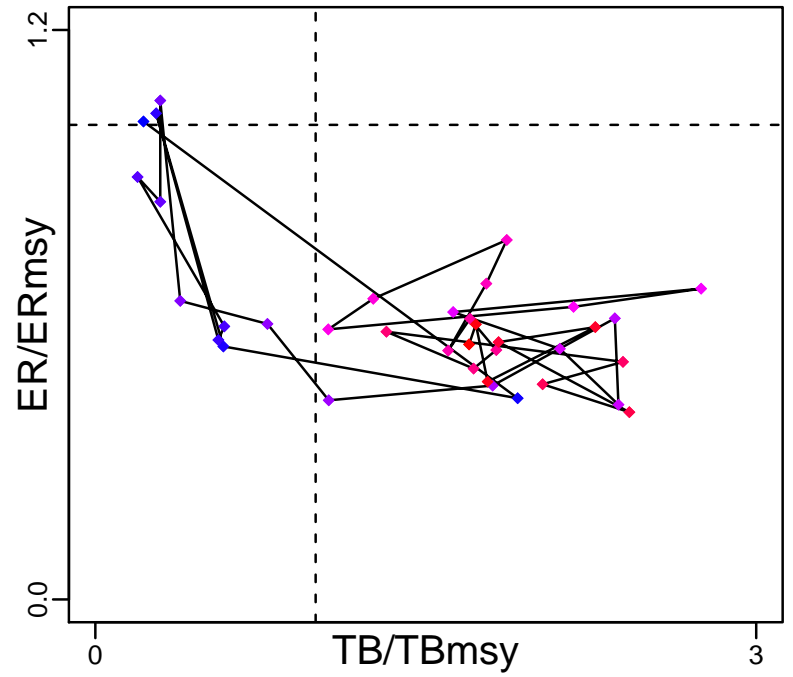
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	823,000	-	0.5
SSB	SSB-MT	2014	301,000	Both	0.5
TN	-	-	-	-	-
R	R-E00	2014	2.66×10^9	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	203,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	1.7		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.54		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

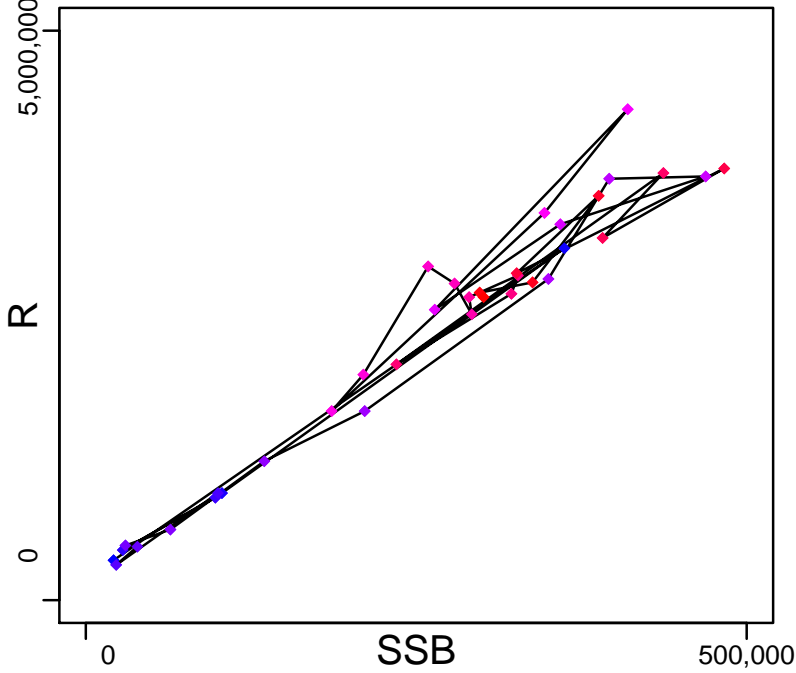
Kobe MSYpref (1979–2014–JPNIMP2016)



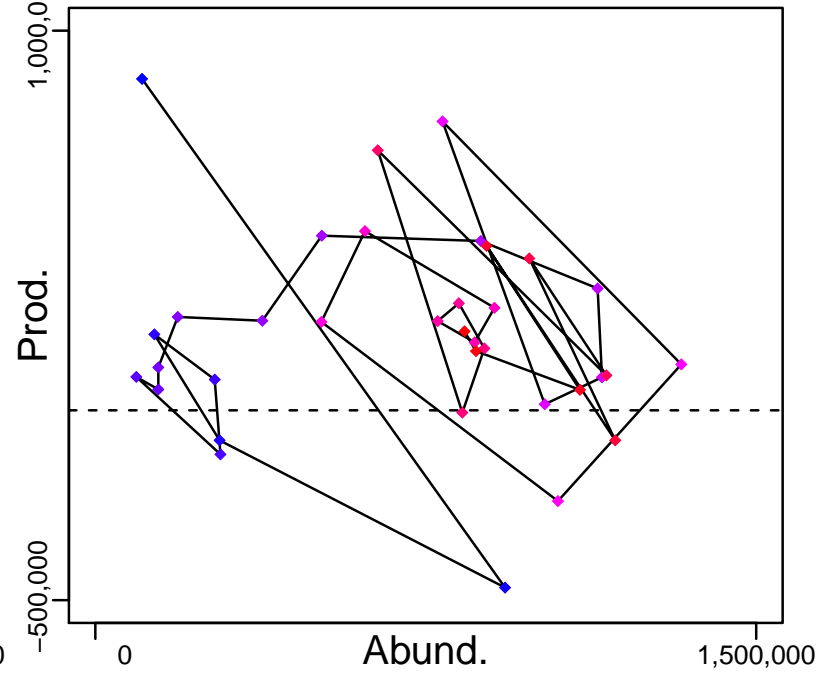
Kobe MGTpref (1979–2014–JPNIMP2016)



Spawner Recruit (1979–2014–JPNIMP2016)



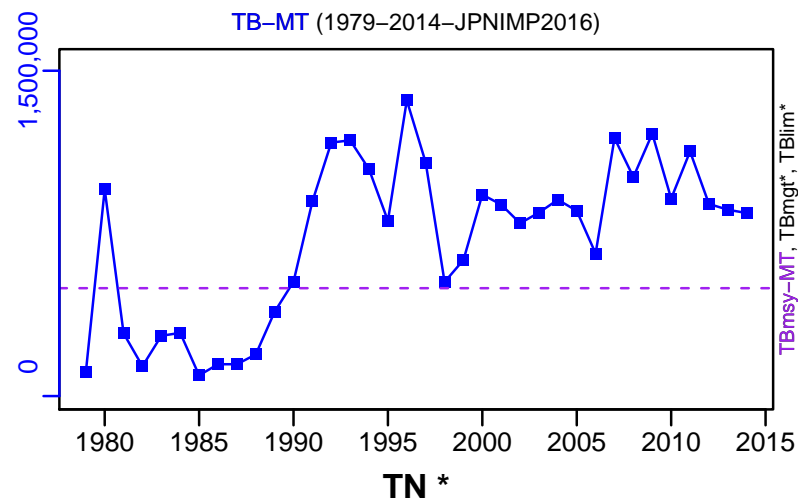
Production (1979–2014–JPNIMP2016)



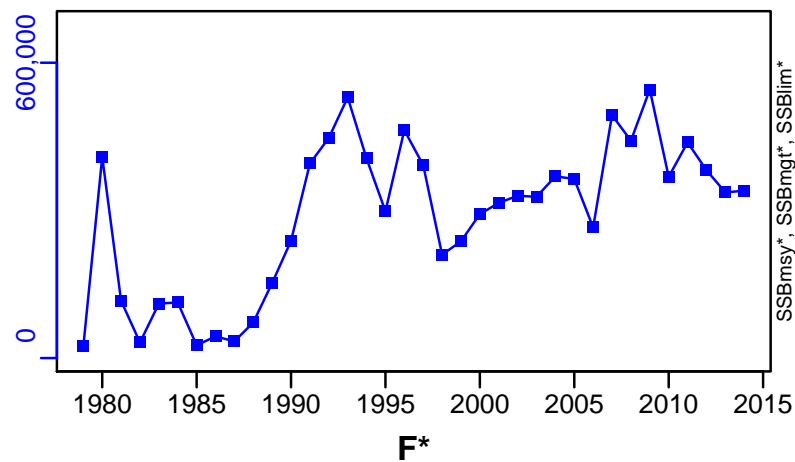
◆ Start Year ◆ End Year * No Data

Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

TB-MT (1979–2014–JPNIMP2016)



SSB-MT (1979–2014–JPNIMP2016)

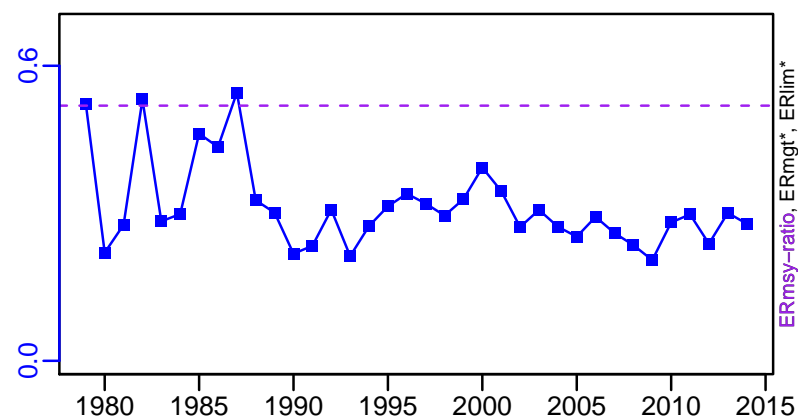


TN *

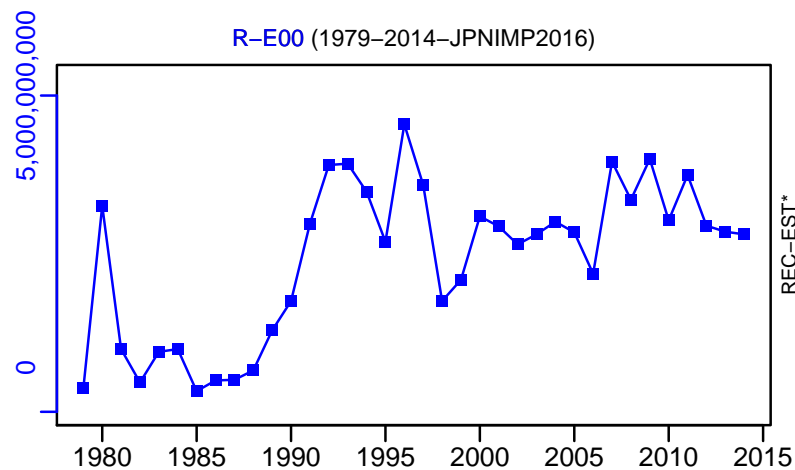
F*



ER-calc-ratio (1979–2014–JPNIMP2016)



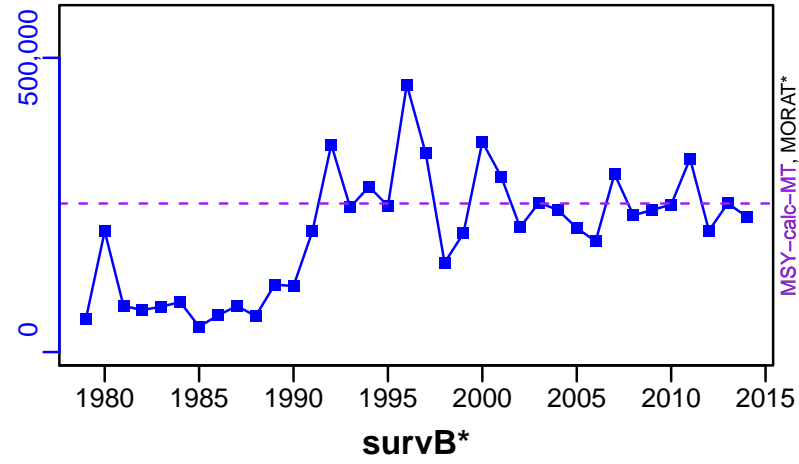
R-E00 (1979–2014–JPNIMP2016)



Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]

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

TAC*, Cpair*, Cadv*



EFFORT*



Japanese jack mackerel Pacific Coast of Japan [JMACKPJPN]

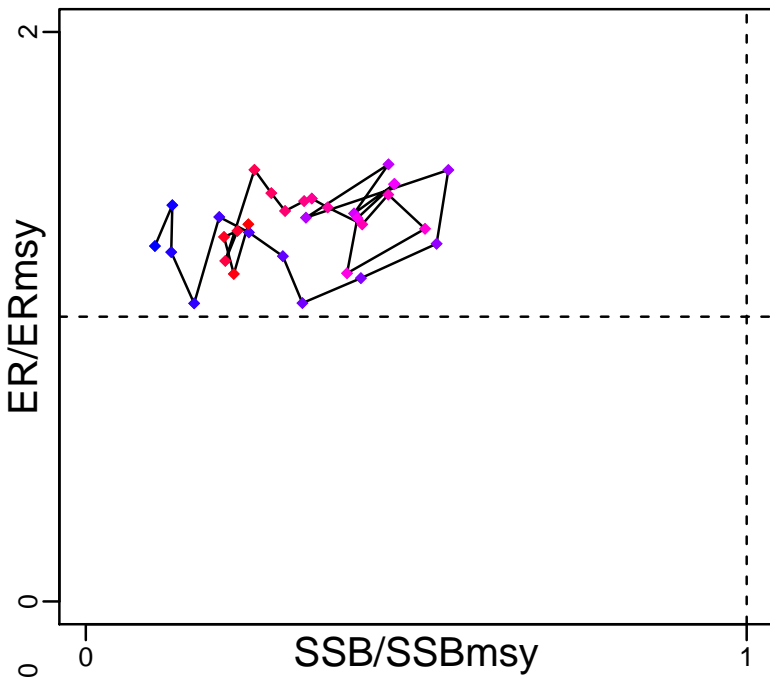
Metadata	
Scientific Name	Trachurus japonicus
Current Assess ID	FAJ-JMACKPJPN-1982-2013-JPNIMP2016
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2009, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2009	284,070
SSBmsy	SSBmsy-MT	2013	116,600
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.34
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	70,941
M	M-1/yr	2013	0.5
TBlim	TBlim-MT	2009	24
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

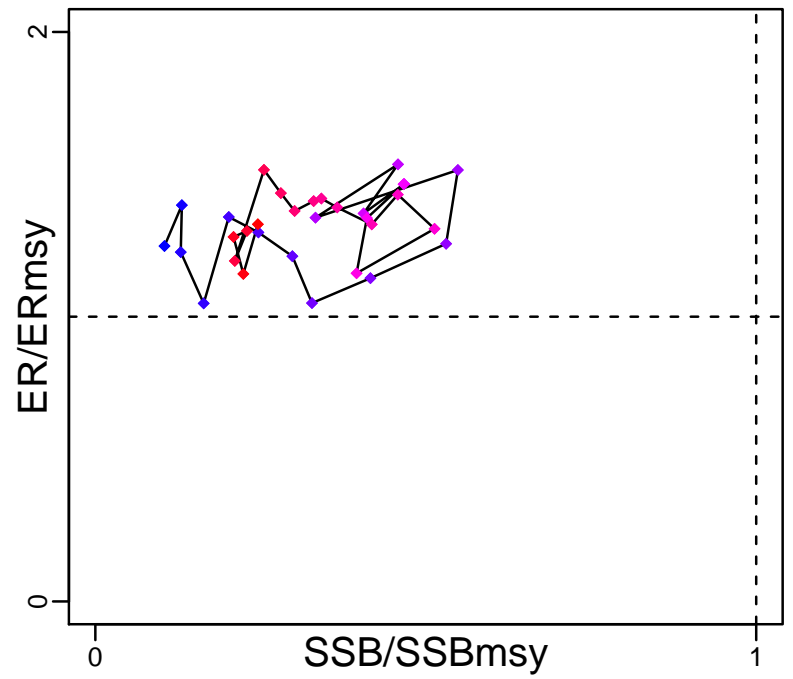
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	61,100	-	0
SSB	SSB-MT	2013	28,700	Both	1
TN	-	-	-	-	-
R	R-E00	2013	5.55×10^8	-	0
F	F-1/yr	2009	1	Both	0 to 2
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	27,600		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2009	0.24		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.25		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.32		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese jack mackerel Pacific Coast of Japan [JMACKPJPN]

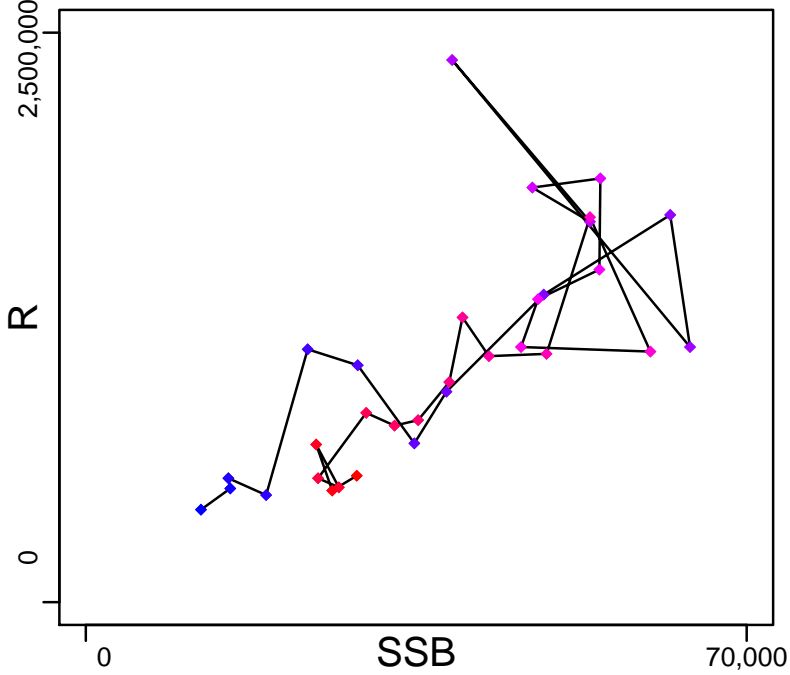
Kobe MSYpref (1982–2013–JPNIMP2016)



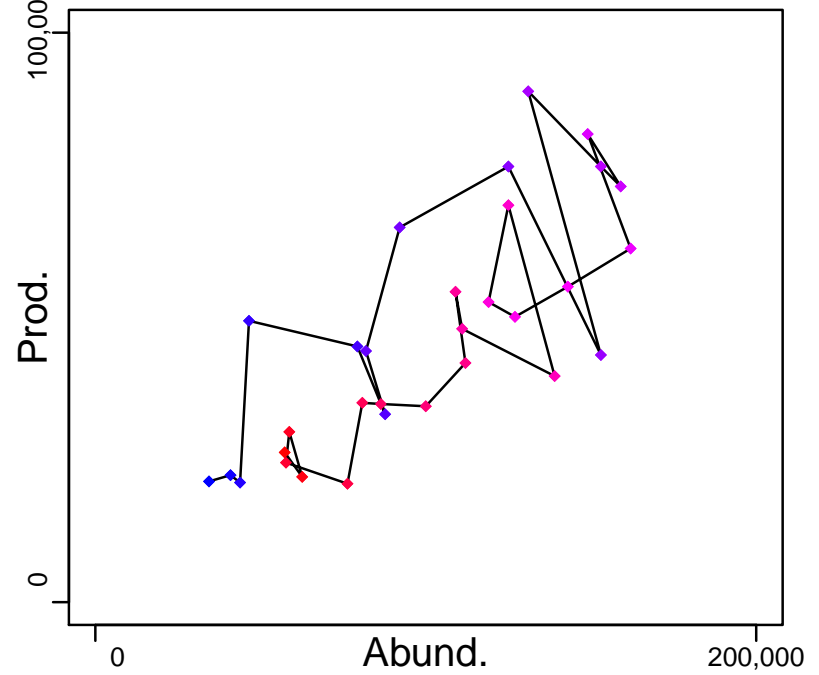
Kobe MGTpref (1982–2013–JPNIMP2016)



Spawner Recruit (1982–2013–JPNIMP2016)



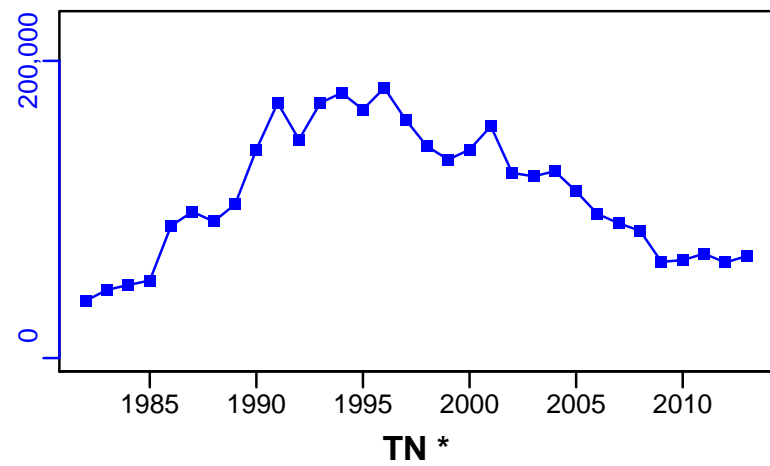
Production (1982–2013–JPNIMP2016)



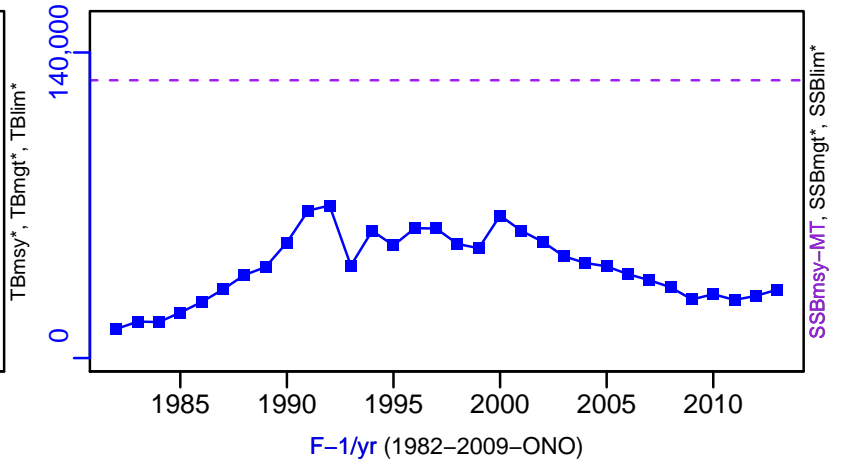
◆ Start Year ◆ End Year * No Data

Japanese jack mackerel Pacific Coast of Japan [JMACKPJPN]

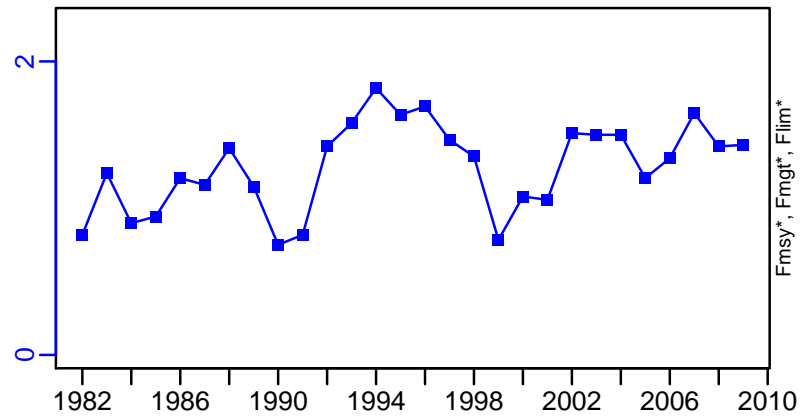
TB-MT (1982-2013-JPNIMP2016)



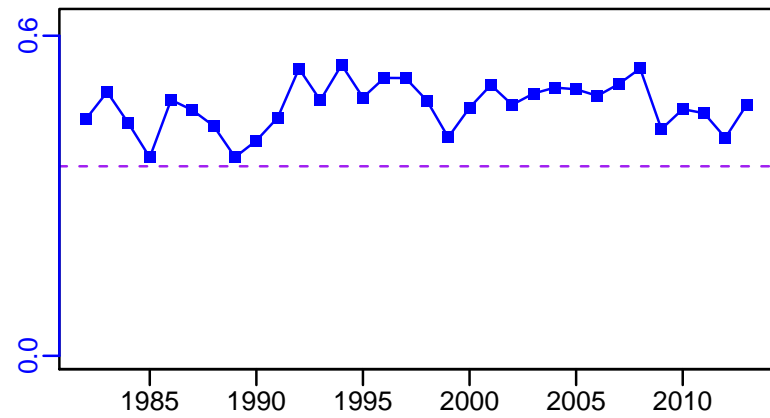
SSB-MT (1982-2013-JPNIMP2016)



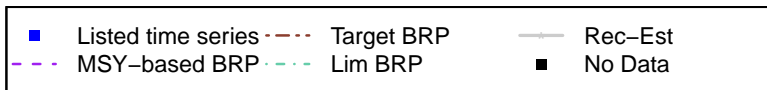
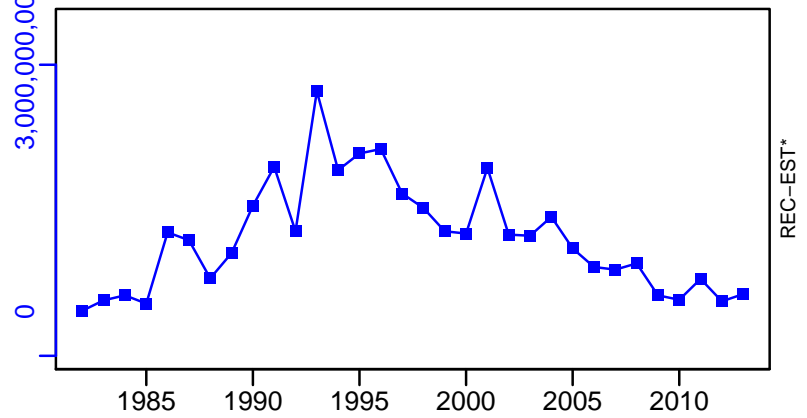
F-1/yr (1982-2009-ONO)



ER-calc-ratio (1982-2013-JPNIMP2016)

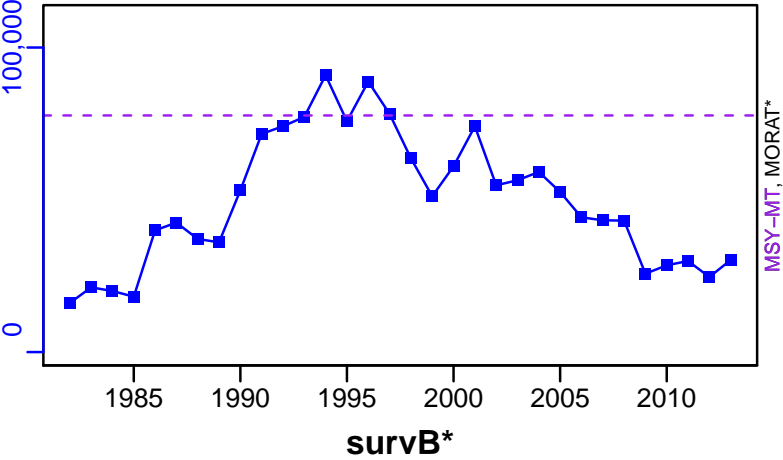


R-E00 (1982-2013-JPNIMP2016)



Japanese jack mackerel Pacific Coast of Japan [JMACKPJPN]

TC-MT, TL*, RecC* (1982-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese jack mackerel Tsushima Strait [JMACKTSST]

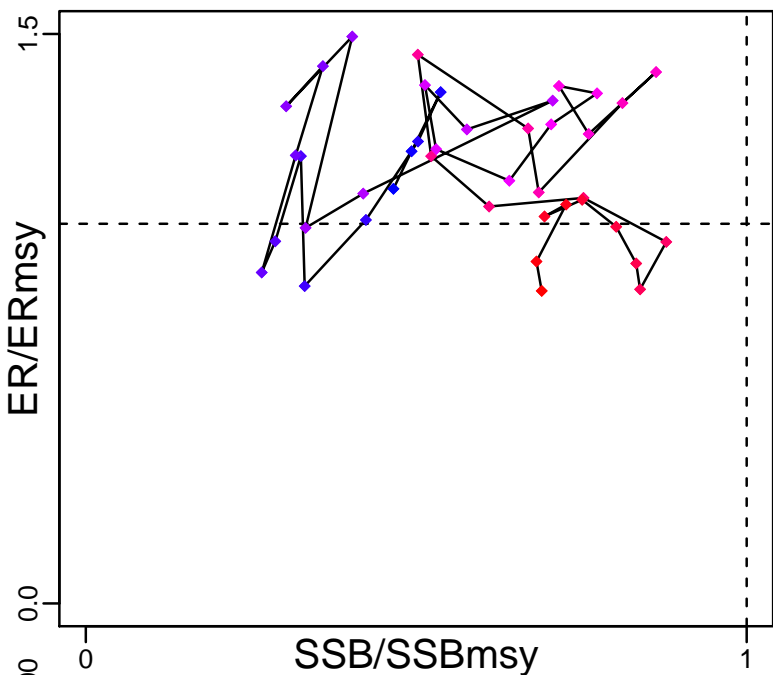
Metadata	
Scientific Name	Trachurus japonicus
Current Assess ID	FAJ-JMACKTSST-1973-2013-JPNIMP2016
Area	Tsushima Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	751,721
SSBmsy	SSBmsy-MT	2013	292,056
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.33
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	175,542
M	M-1/yr	2013	0.5
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	150,000
Flim	-	-	-
ERlim	-	-	-

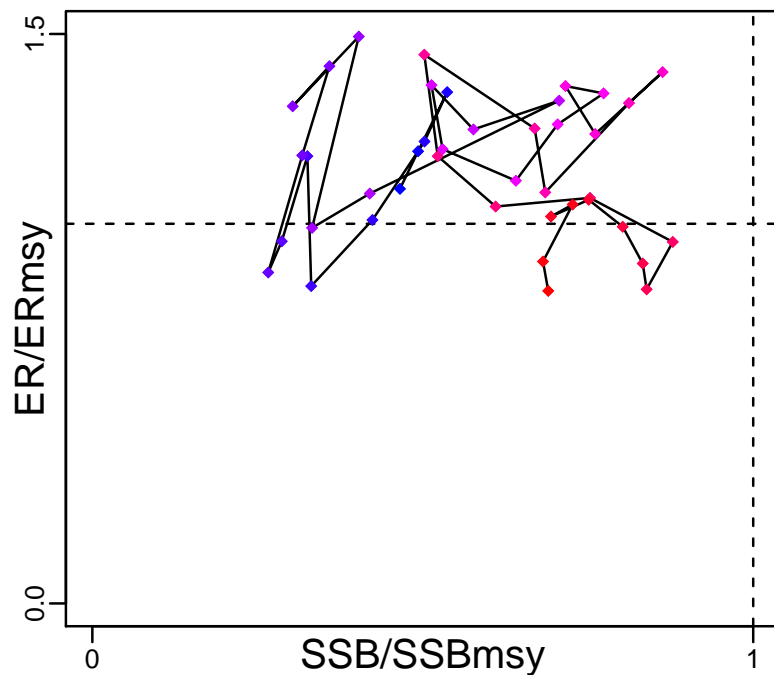
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	440,000	-	0
SSB	SSB-MT	2013	201,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	5.98×10^9	-	0
F	F-1/yr	2010	1	-	0 to 3
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	120,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.61		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.69		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.82		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese jack mackerel Tsushima Strait [JMACKTSST]

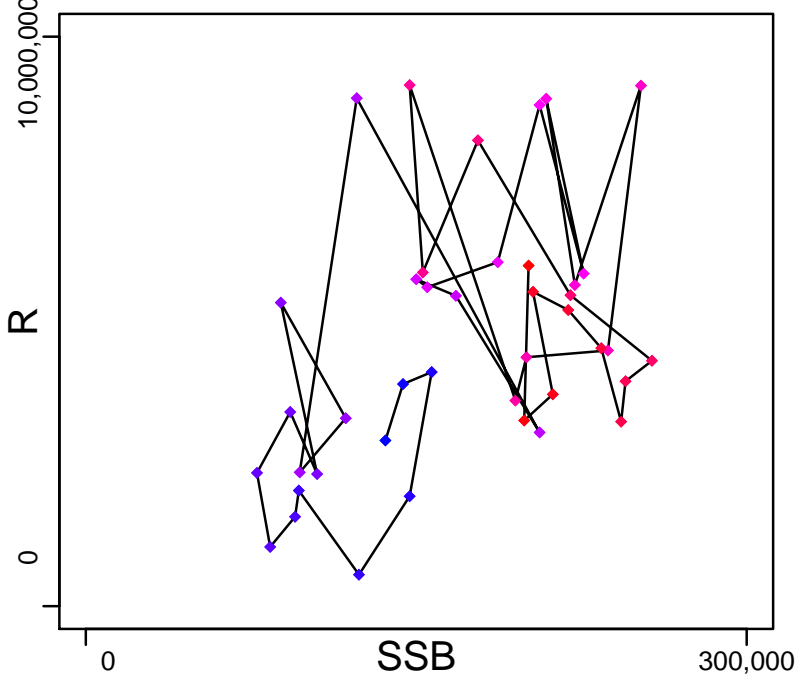
Kobe MSYpref (1973–2013–JPNIMP2016)



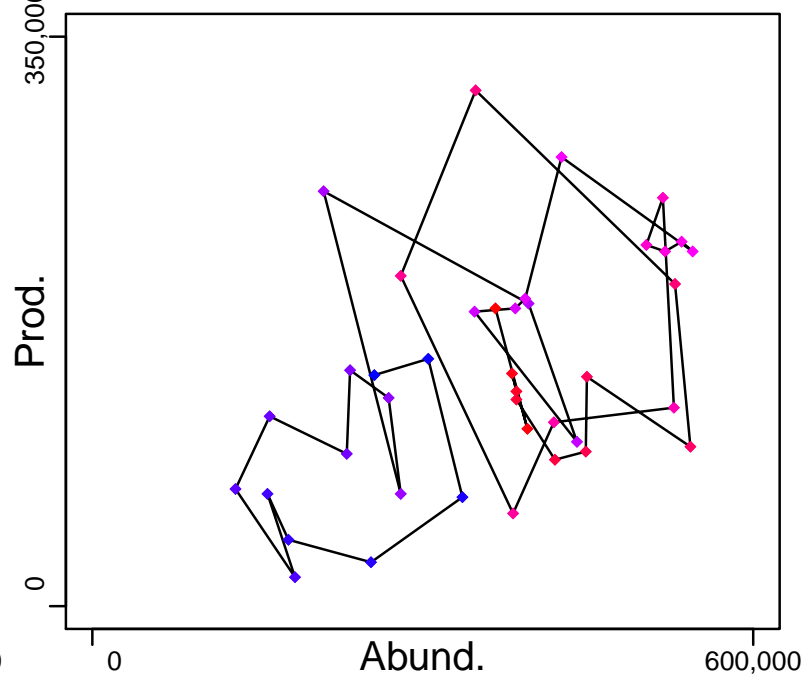
Kobe MGTpref (1973–2013–JPNIMP2016)



Spawner Recruit (1973–2013–JPNIMP2016)

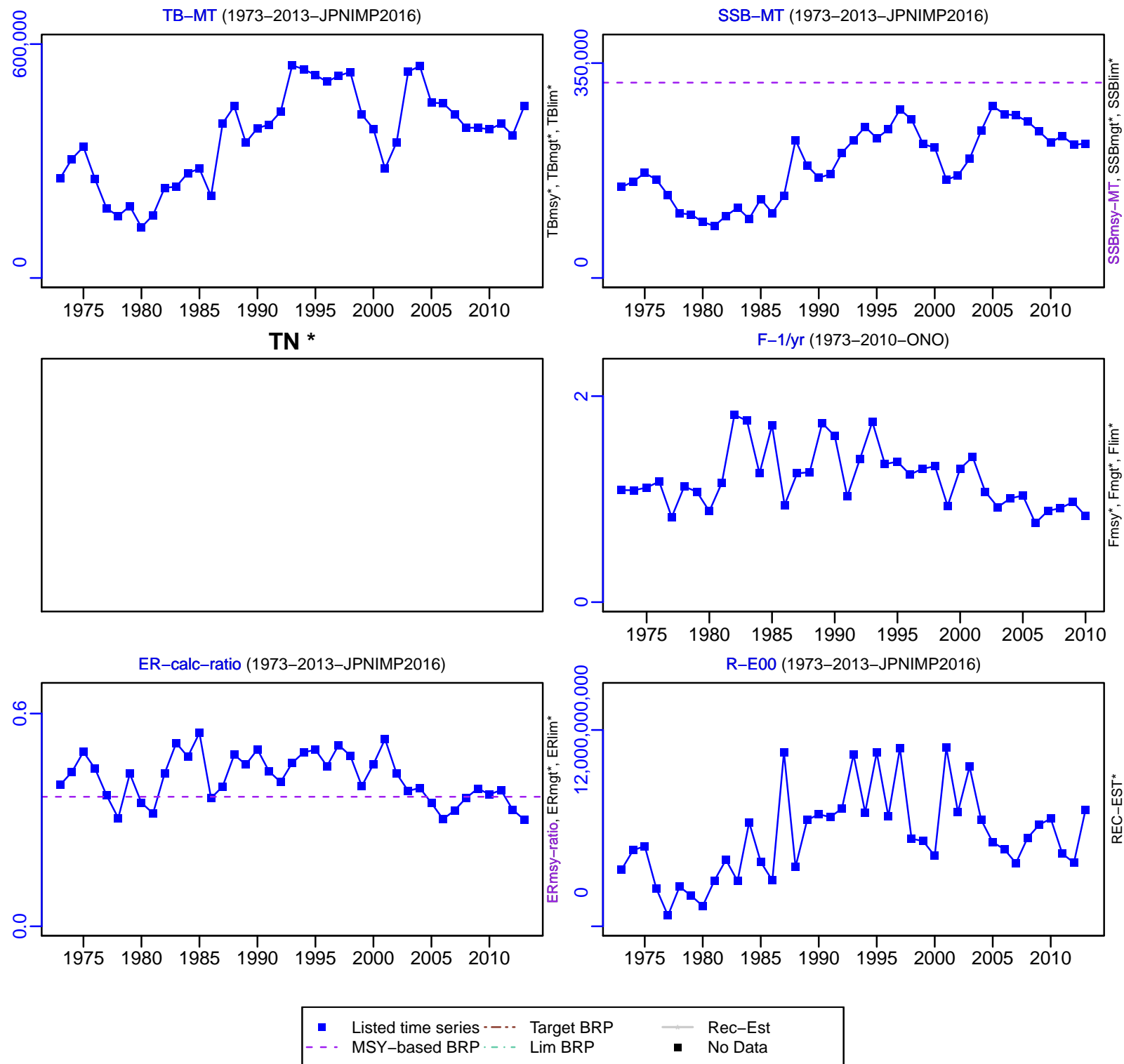


Production (1973–2013–JPNIMP2016)



◆ Start Year ◆ End Year * No Data

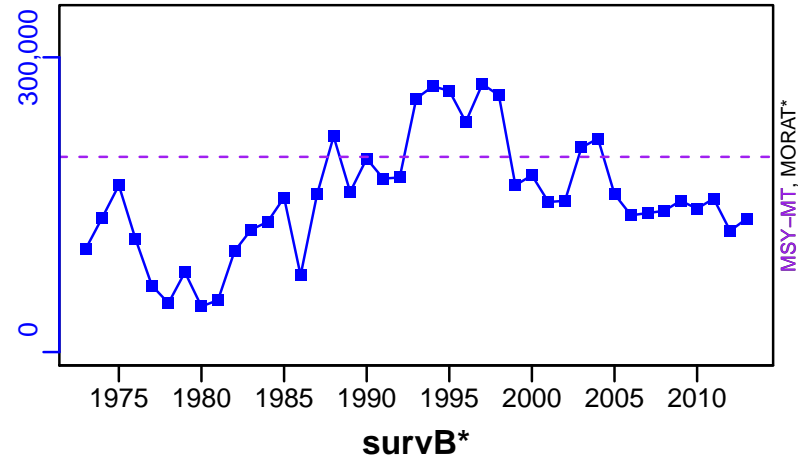
Japanese jack mackerel Tsushima Strait [JMACKTSST]



Japanese jack mackerel Tsushima Strait [JMACKTSST]

TC-MT, TL*, RecC* (1973-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Japanese pufferfish Ise and Mikawa Bay [JPUFFIMKB]

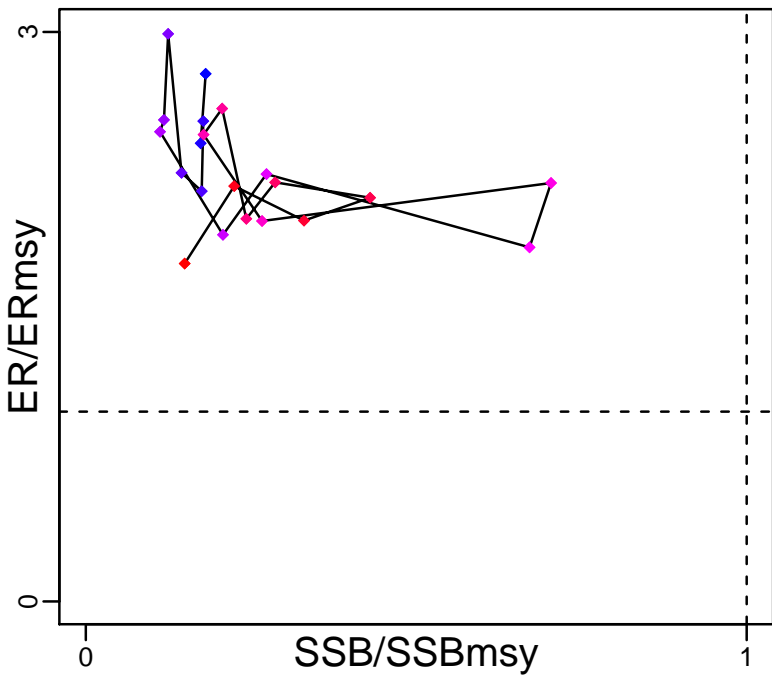
Metadata	
Scientific Name	Takifugu rubripes
Current Assess ID	FAJ-JPUFFIMKB-1993-2013-JPNIMP2016
Area	Ise and Mikawa Bay
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	252
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.28
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	134
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

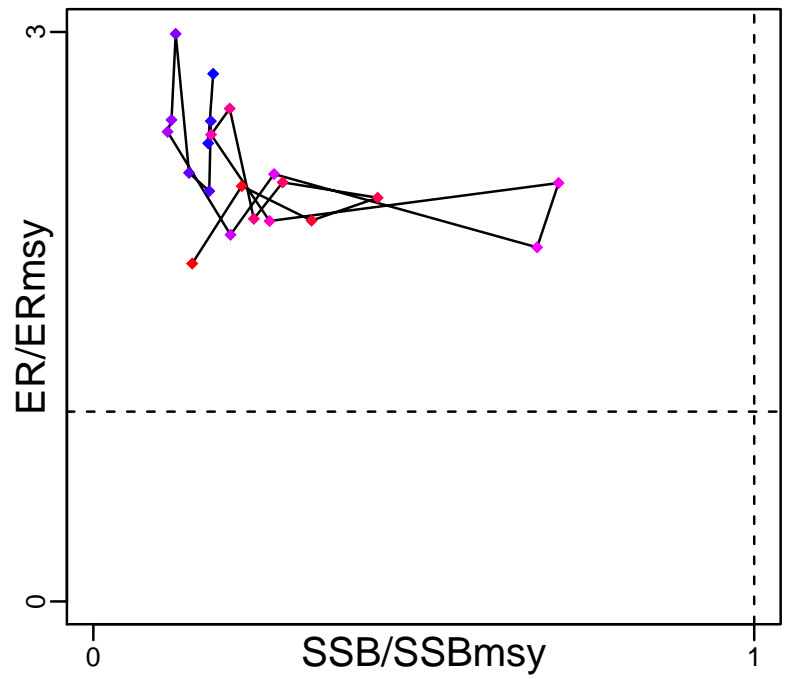
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	132	-	0
SSB	SSB-MT	2013	38	Both	2
TN	-	-	-	-	-
R	R-E00	2013	119,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	1	-	-
TC	TC-MT	2013	66.9		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.15		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.78		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese pufferfish Ise and Mikawa Bay [JPUFFIMKB]

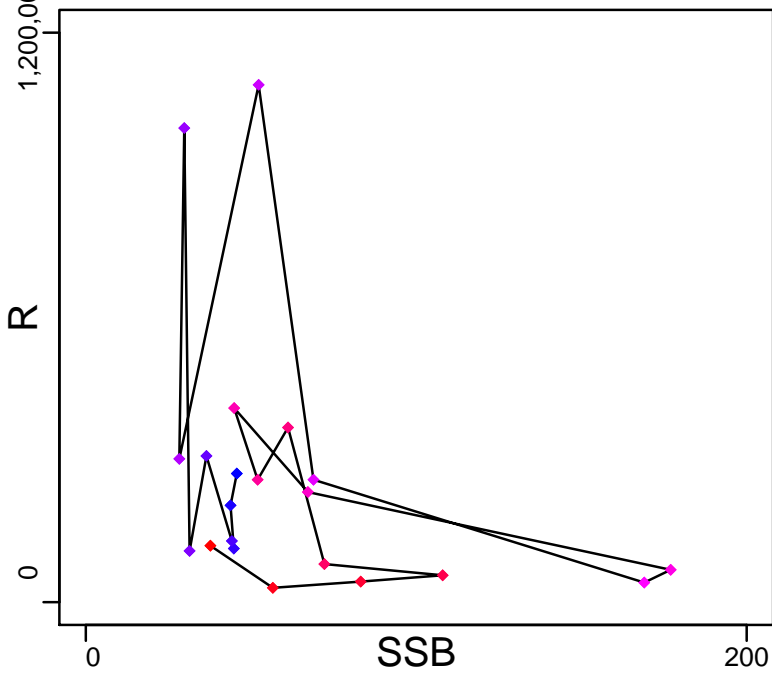
Kobe MSYpref (1993–2013–JPNIMP2016)



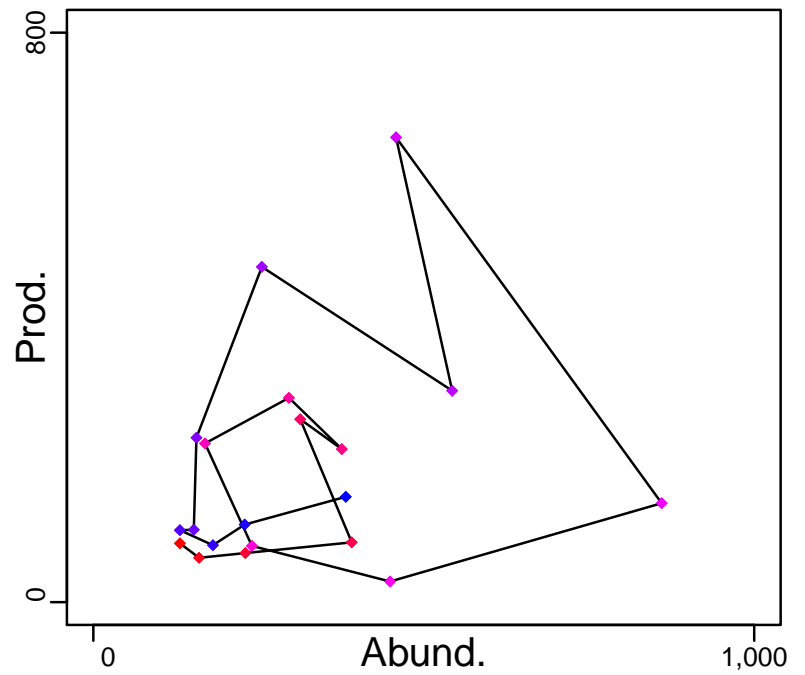
Kobe MGTpref (1993–2013–JPNIMP2016)



Spawner Recruit (1993–2013–JPNIMP2016)



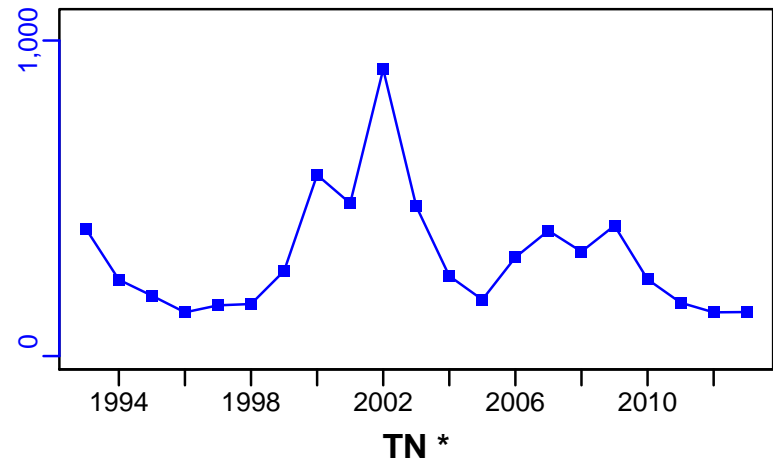
Production (1993–2013–JPNIMP2016)



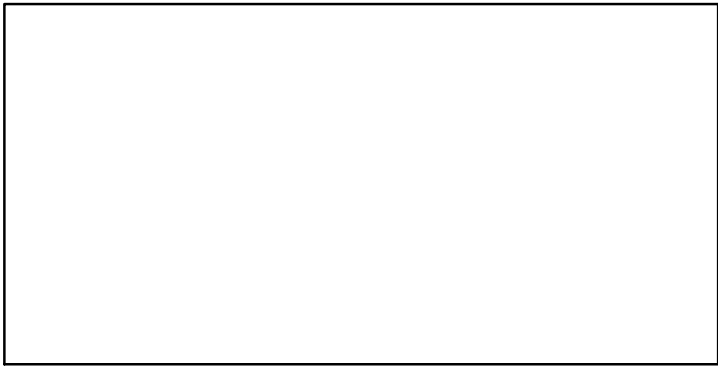
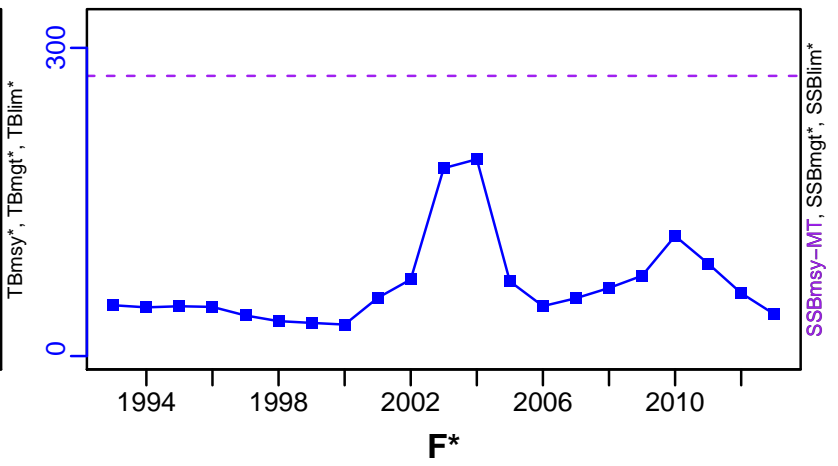
◆ Start Year ◆ End Year * No Data

Japanese pufferfish Ise and Mikawa Bay [JPUFFIMKB]

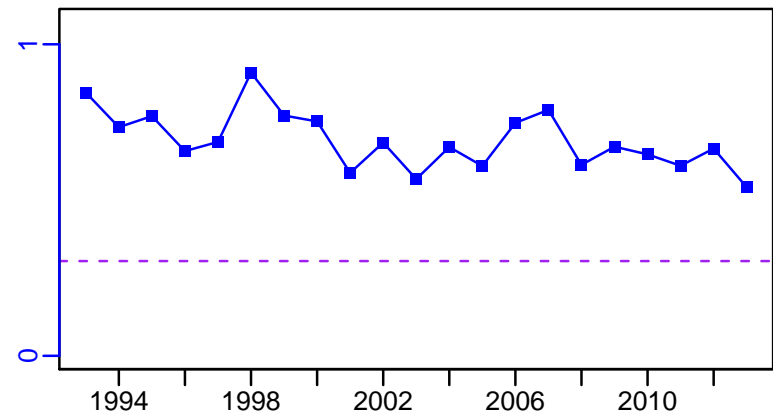
TB-MT (1993–2013–JPNIMP2016)



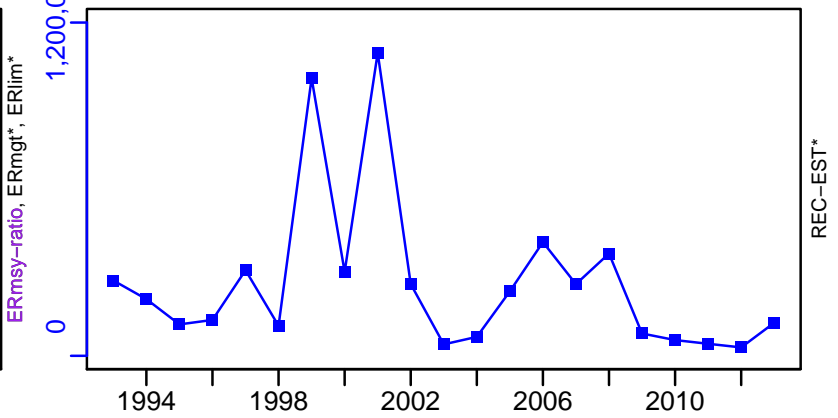
SSB-MT (1993–2013–JPNIMP2016)



ER-calc-ratio (1993–2013–JPNIMP2016)



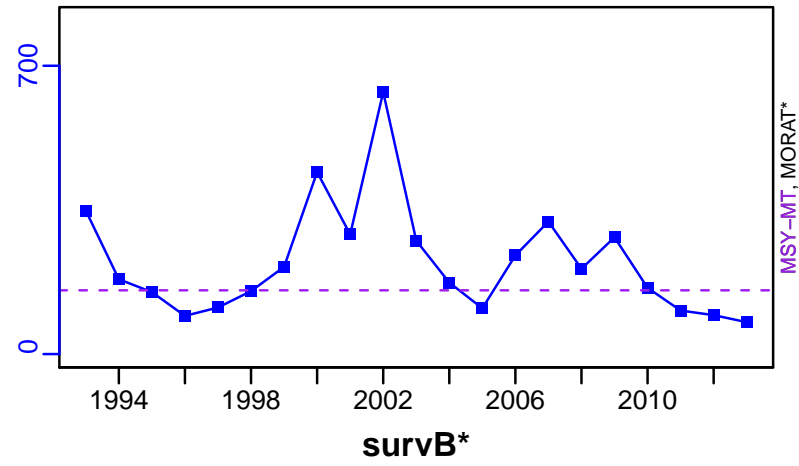
R-E00 (1993–2013–JPNIMP2016)



Japanese pufferfish Ise and Mikawa Bay [JPUFFIMKB]

TC-MT, TL*, RecC* (1993-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



**Japanese pufferfish Sea of Japan and East China Sea and Seto Inland sea
[JPUFFSOJECSSI]**

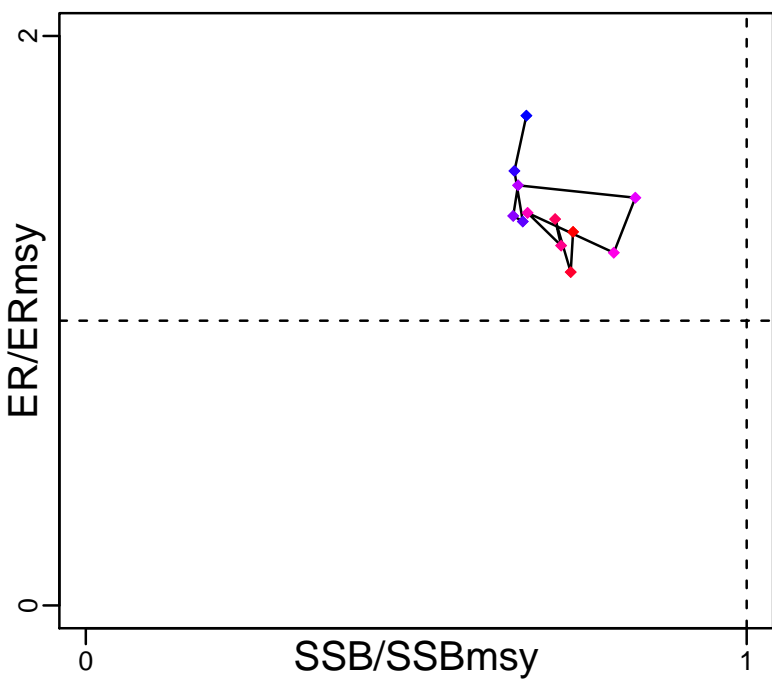
Metadata	
Scientific Name	Takifugu rubripes
Current Assess ID	FAJ-JPUFFSOJECSSI-1993-2013-JPNIMP2016
Area	Sea of Japan and East China Sea and Seto Inland sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	552
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.23
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	258
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

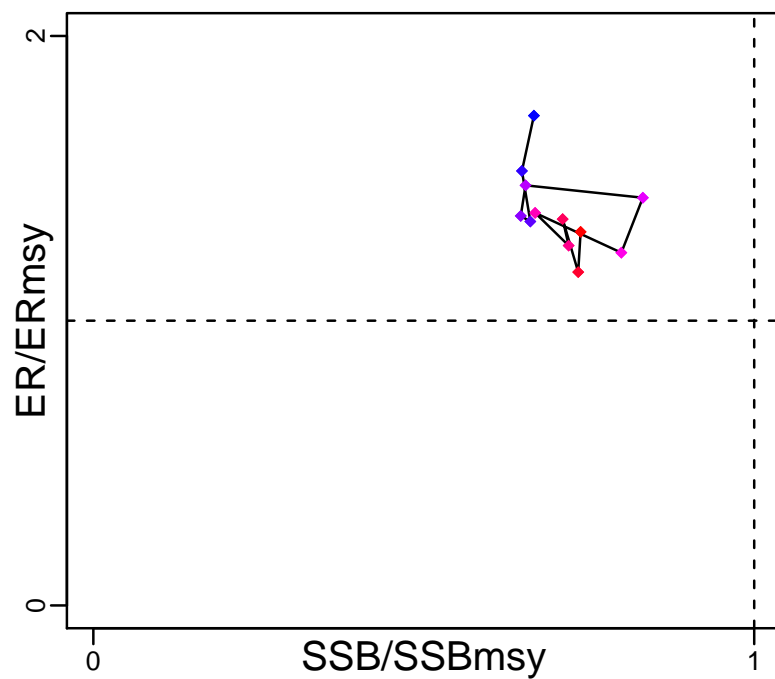
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	829	-	0
SSB	SSB-MT	2013	407	Both	3
TN	-	-	-	-	-
R	R-E00	2013	203,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	250		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.74		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.31		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese pufferfish Sea of Japan and East China Sea and Seto Inland sea [JPUFFSOJECSSI]

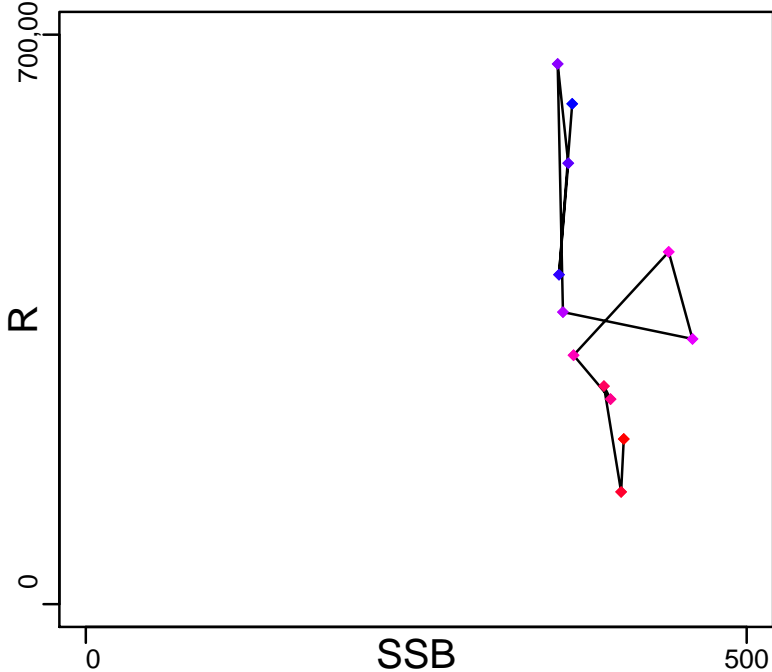
Kobe MSYpref (1993–2013–JPNIMP2016)



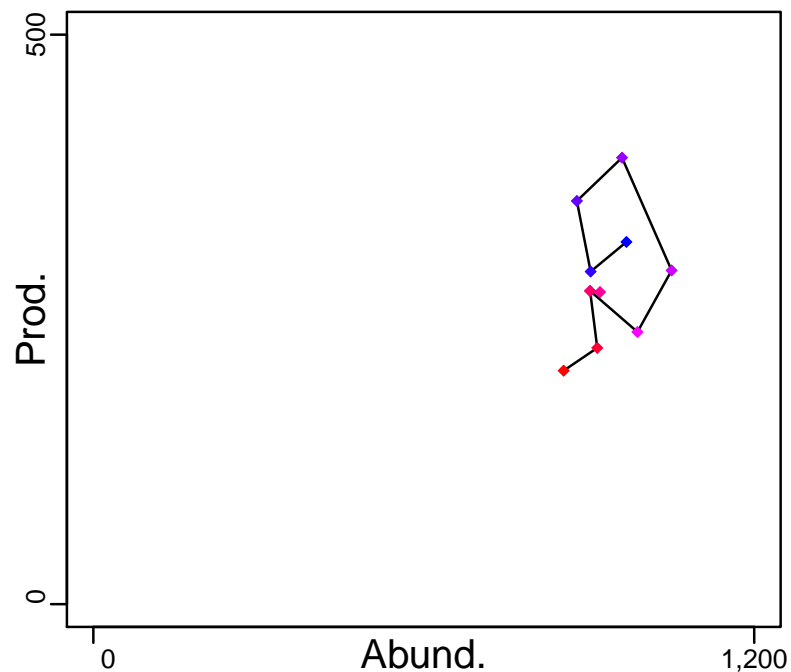
Kobe MGTpref (1993–2013–JPNIMP2016)



Spawner Recruit (1993–2013–JPNIMP2016)



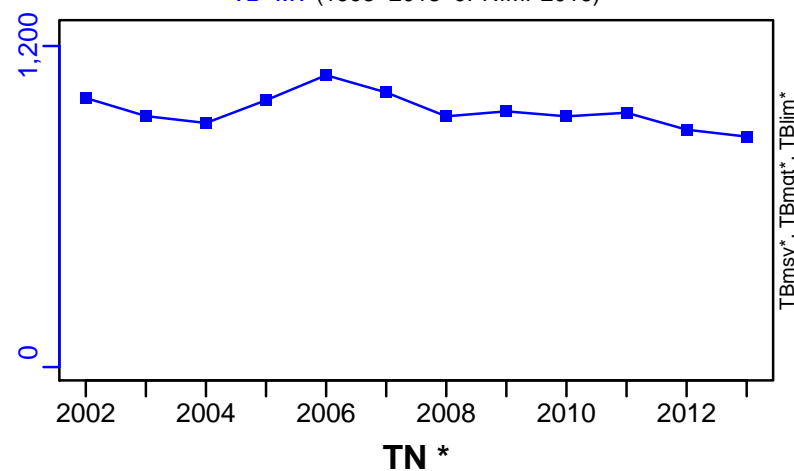
Production (1993–2013–JPNIMP2016)



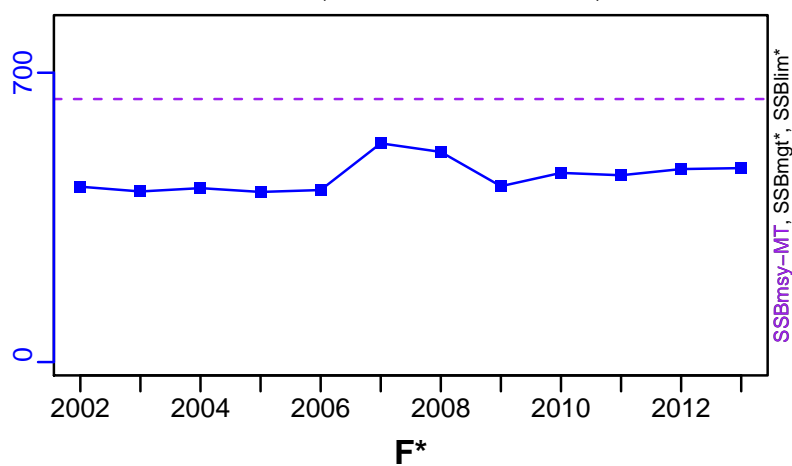
◆ Start Year ◆ End Year * No Data

Japanese pufferfish Sea of Japan and East China Sea and Seto Inland sea [JPUFFSOJECSSI]

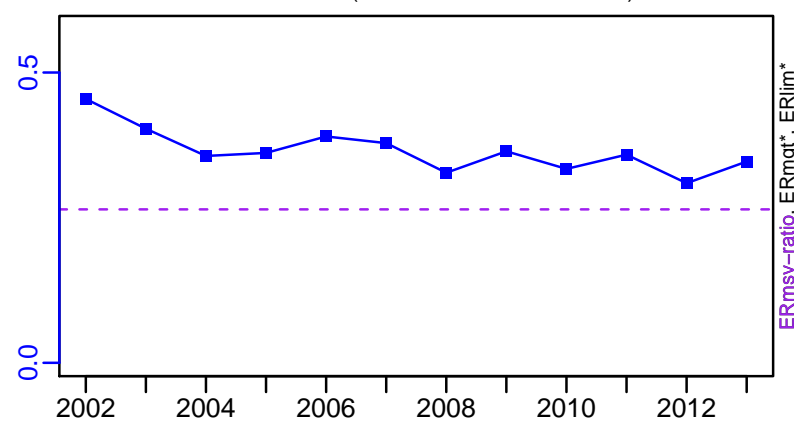
TB-MT (1993-2013-JPNIMP2016)



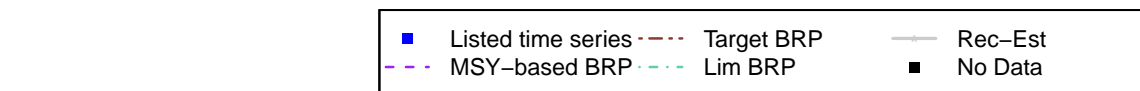
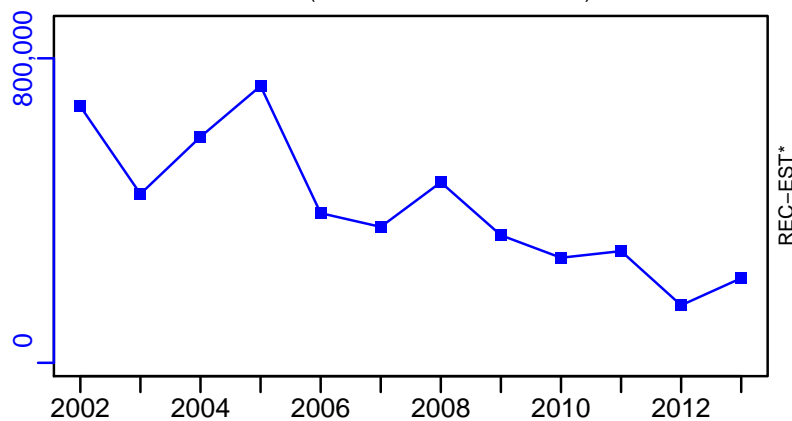
SSB-MT (1993-2013-JPNIMP2016)



ER-calc-ratio (1993-2013-JPNIMP2016)

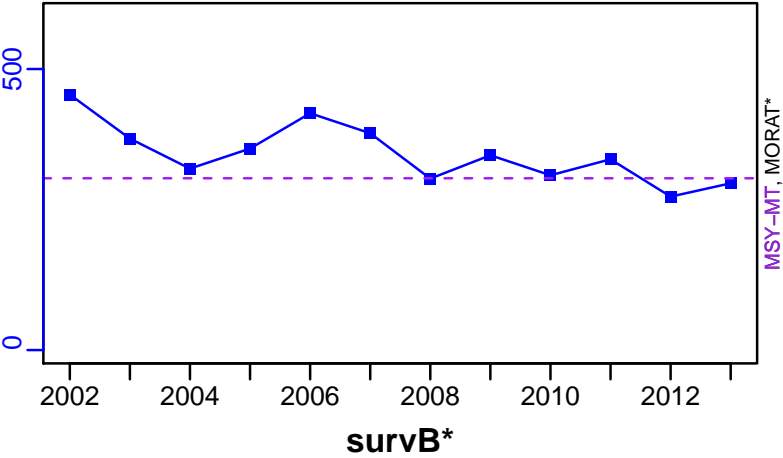


R-E00 (1993-2013-JPNIMP2016)



Japanese pufferfish Sea of Japan and East China Sea and Seto Inland sea [JPUFFSOJECSSI]

TC-MT, TL*, RecC* (1993-2013-JPNIMP2016)



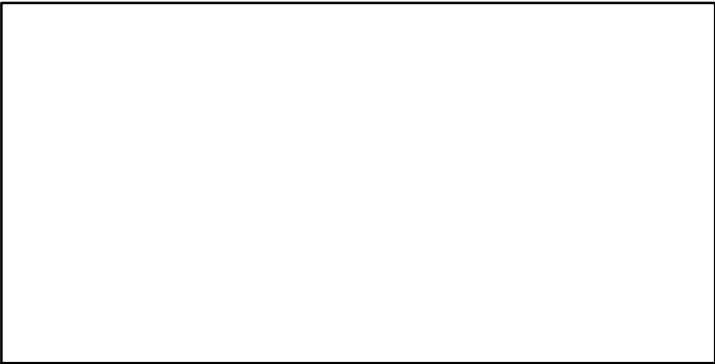
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

* No Data

Japanese snapper Okinawa Islands [JSNAPOKWI]

Metadata	
Scientific Name	Paracaesio caerulea
Current Assess ID	FAJ-JSNAPOKWI-1989-2013-JPNIMP2016
Area	Okinawa Islands
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	153		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

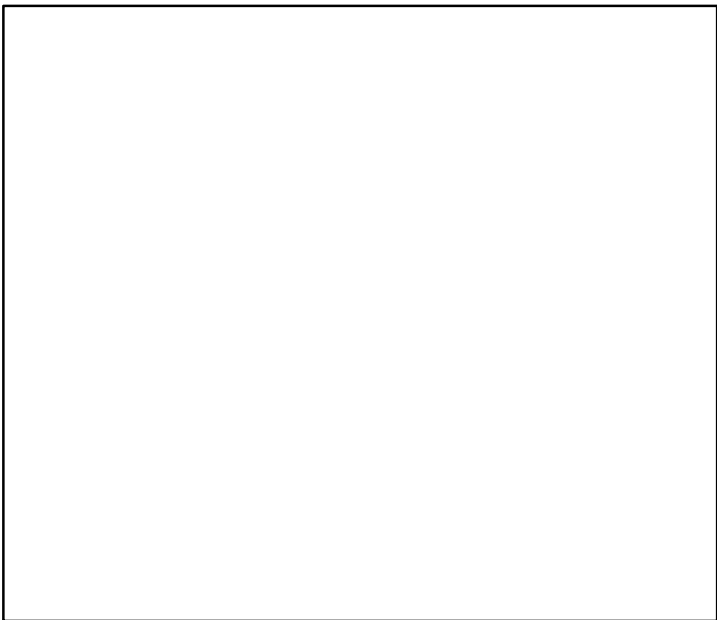
Kobe MSY*



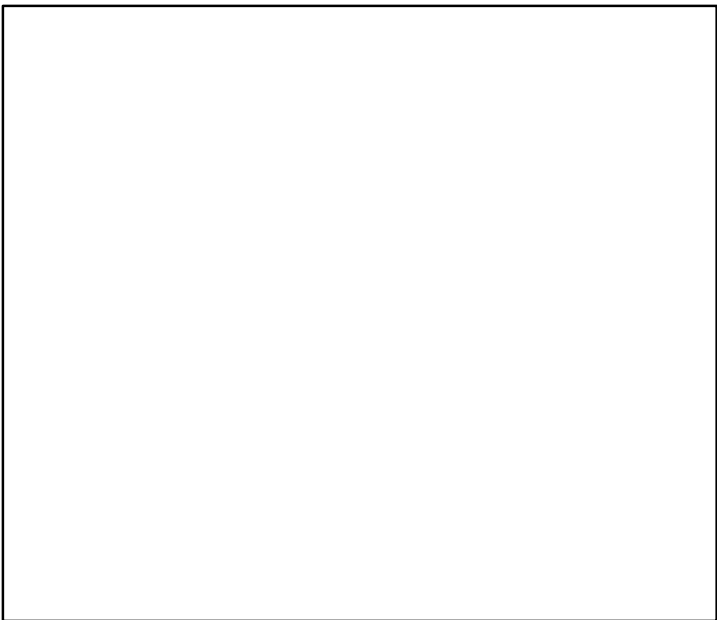
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Japanese snapper Okinawa Islands [JSNAPOKWI]

TB*



SSB*



TN *



F*



ER*

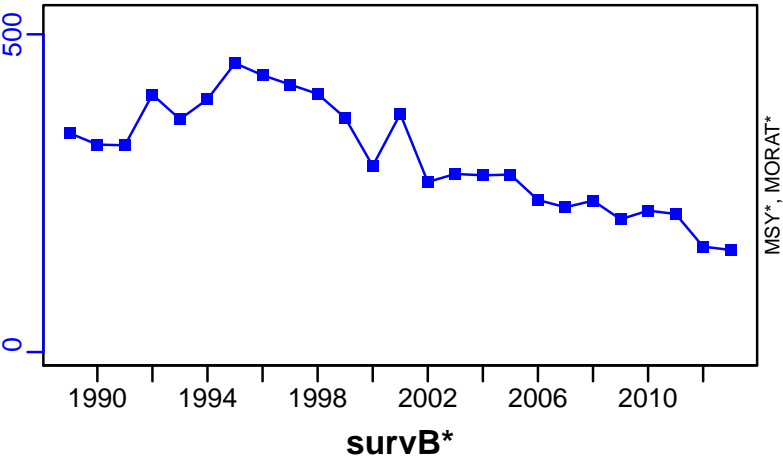


Recruits*



Japanese snapper Okinawa Islands [JSNAPOKWI]

TC-MT, TL*, RecC* (1989-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Kichiji rockfish North Pacific [KCROCKNPAC]

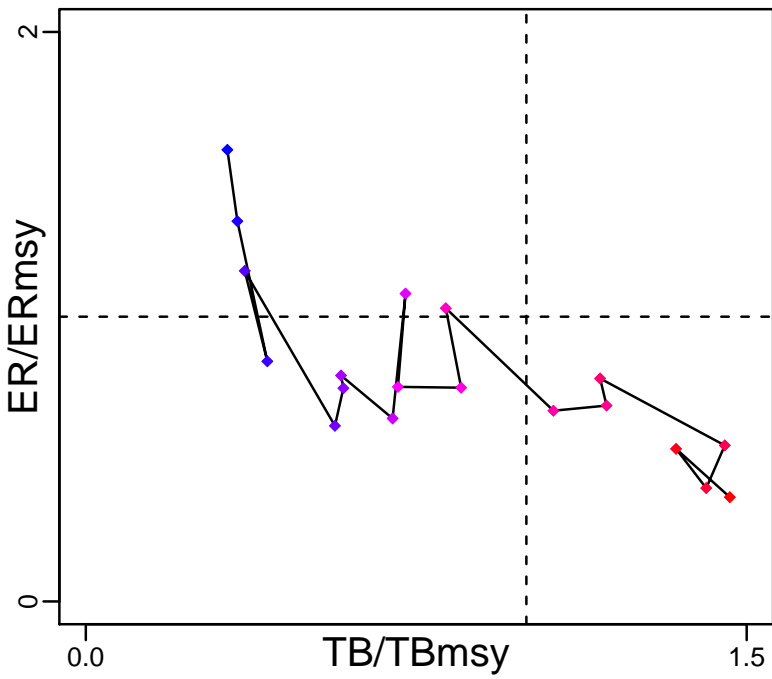
Metadata	
Scientific Name	Sebastes macrochir
Current Assess ID	FAJ-KCROCKNPAC-1975-2013-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	4426
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.17
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	744
M	M-1/yr	2013	0.12
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

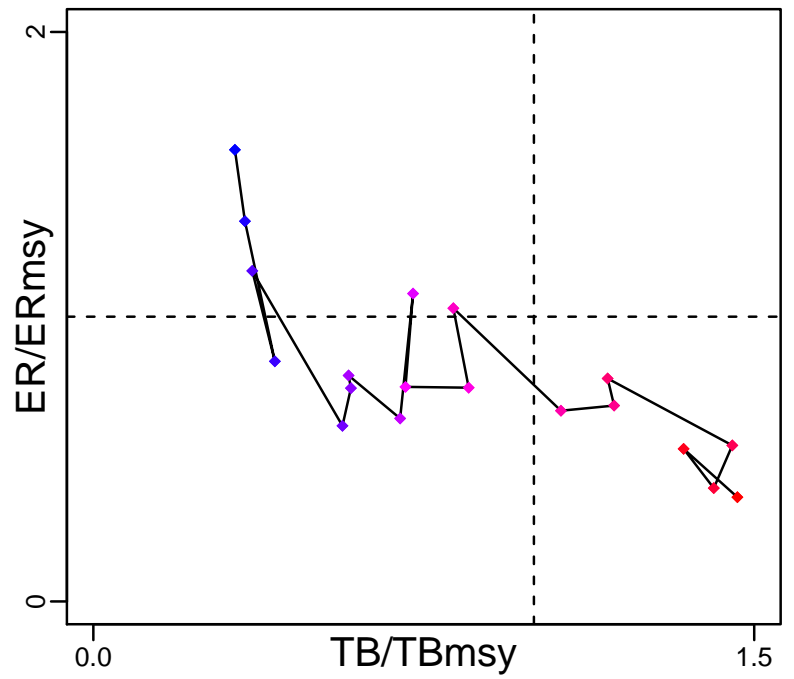
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	6470	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	398		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.46		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.37		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kichiji rockfish North Pacific [KCROCKNPAC]

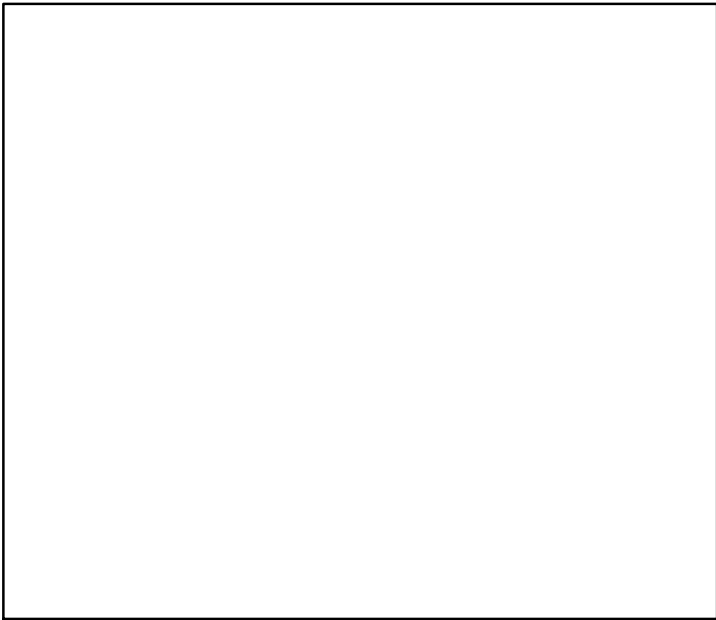
Kobe MSYpref (1975–2013–JPNIMP2016)



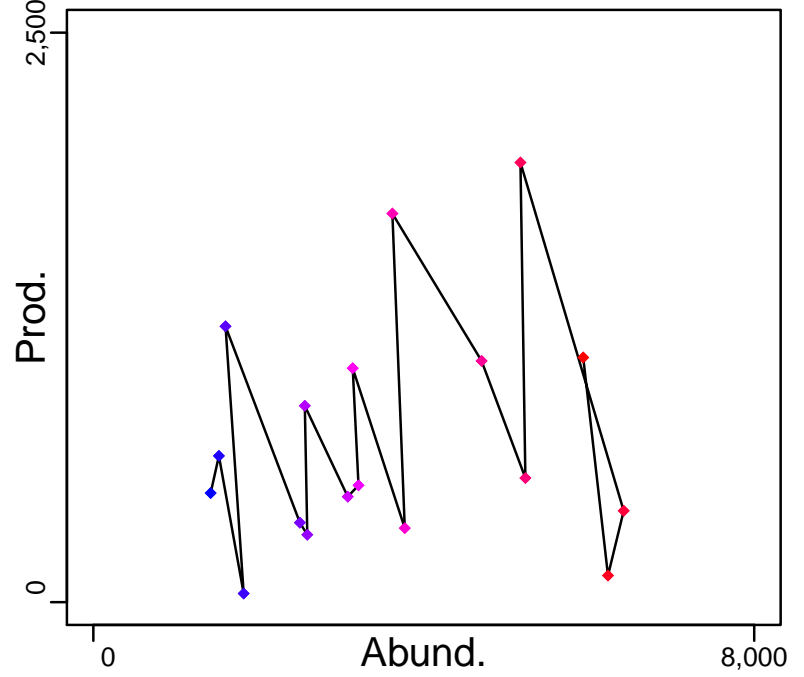
Kobe MGTpref (1975–2013–JPNIMP2016)



Spawner Recruit*



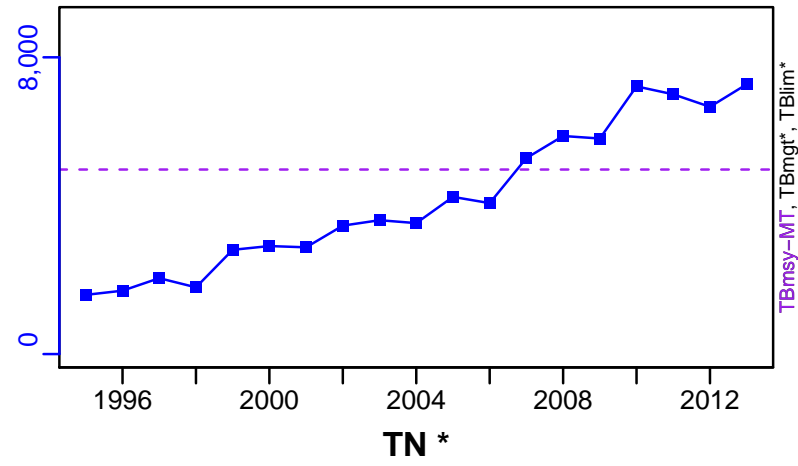
Production (1975–2013–JPNIMP2016)



◆ Start Year ◆ End Year * No Data

Kichiji rockfish North Pacific [KCROCKNPAC]

TB-MT (1975-2013-JPNIMP2016)



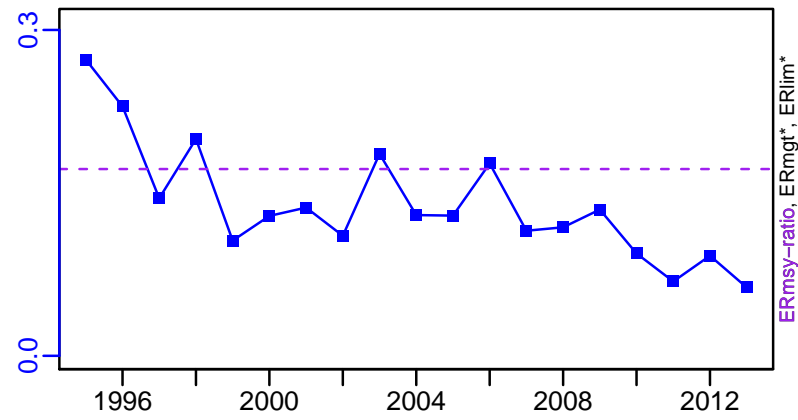
SSB*



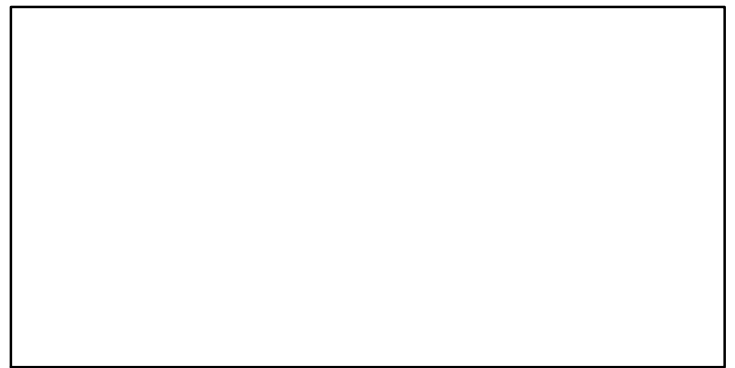
F*



ER-calc-ratio (1975-2013-JPNIMP2016)



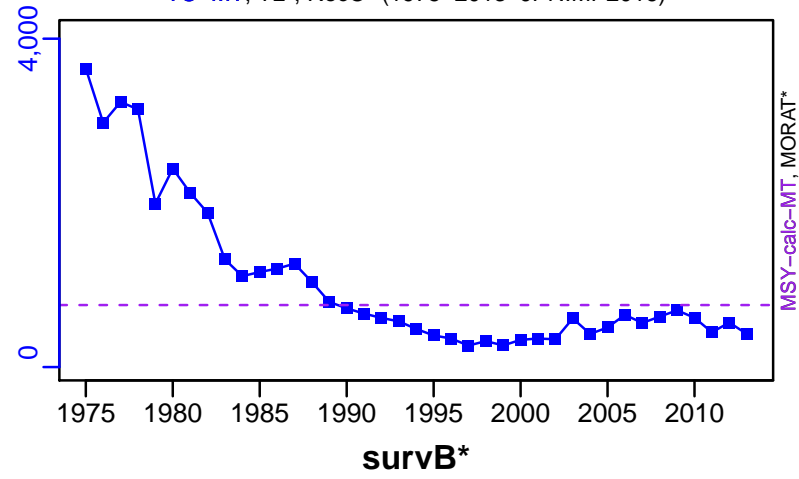
Recruits*



Kichiji rockfish North Pacific [KCROCKNPAC]

TC-MT, TL*, RecC* (1975-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Kichiji rockfish Okhotsk Sea [KCROCKOKS]

Metadata	
Scientific Name	Sebastolobus macrochir
Current Assess ID	FAJ-KCROCKOKS-1975-2013-JPNIMP2016
Area	Okhotsk Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	309		
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

Kichiji rockfish Okhotsk Sea [KCROCKOKS]

TB*



SSB*



TN *



F*



ER*



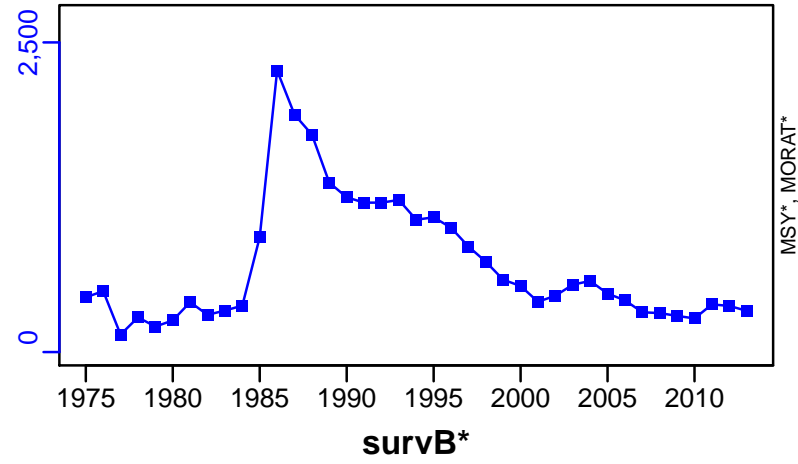
Recruits*



Kichiji rockfish Okhotsk Sea [KCROCKOKS]

TC-MT, TL*, RecC* (1975-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Kichiji rockfish Southwestern coast of Hokkaido [KCROCKSWHOKK]

Metadata	
Scientific Name	Sebastolobus macrochir
Current Assess ID	FAJ-KCROCKSWHOKK-1975-2013-JPNIMP2016
Area	Southwestern coast of Hokkaido
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	363		
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

Kichiji rockfish Southwestern coast of Hokkaido [KCROCKSWHOKK]

TB*



SSB*



TN *



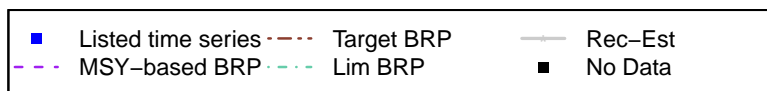
F*



ER*



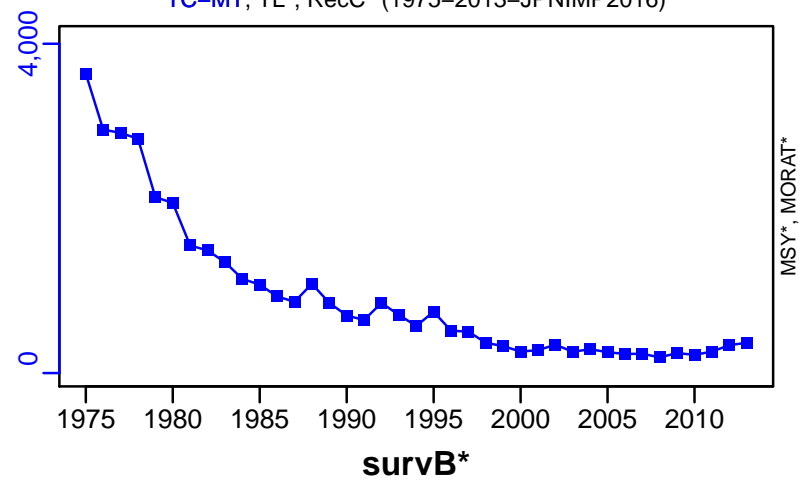
Recruits*



Kichiji rockfish Southwestern coast of Hokkaido [KCROCKSWHOKK]

TC-MT, TL*, RecC* (1975-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Longfin codling Pacific Ocean [LCODLINGPAC]

Metadata	
Scientific Name	Laemonema longipes
Current Assess ID	FAJ-LCODLINGPAC-1989-2013-JPNIMP2016
Area	Pacific Ocean
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	16,300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Longfin codling Pacific Ocean [LCODLINGPAC]

TB*



SSB*



TN *



F*



ER*

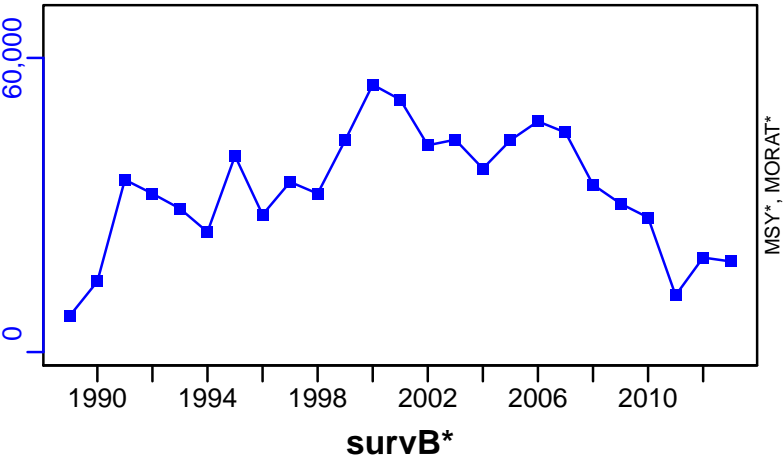


Recruits*



Longfin codling Pacific Ocean [LCODLINGPAC]

TC-MT, TL*, RecC* (1989–2013–JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Largehead hairtail Sea of Japan and East China Sea [LHAIRTSOJECS]

Metadata	
Scientific Name	Trichiurus lepturus
Current Assess ID	FAJ-LHAIRTSOJECS-1981-2013-JPNIMP2016
Area	Sea of Japan and East China Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	2070		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



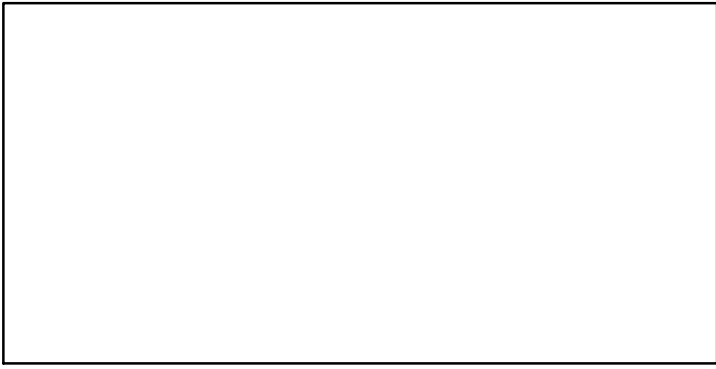
Production*



◆ Start Year ◆ End Year * No Data

Largehead hairtail Sea of Japan and East China Sea [LHAIRTSOJECS]

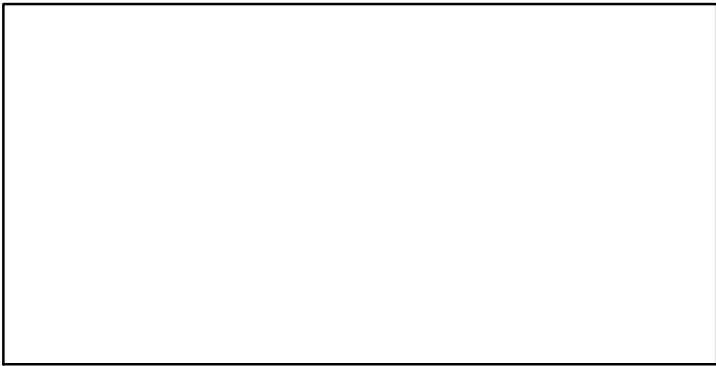
TB*



SSB*



TN *



F*



ER*



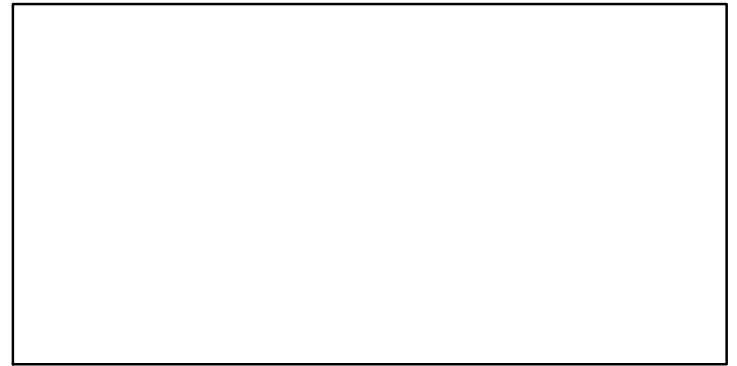
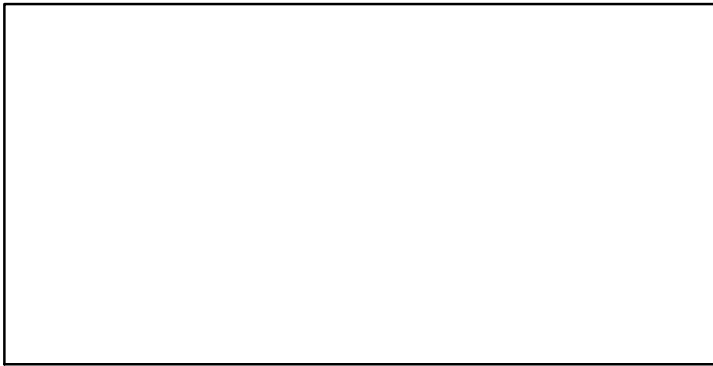
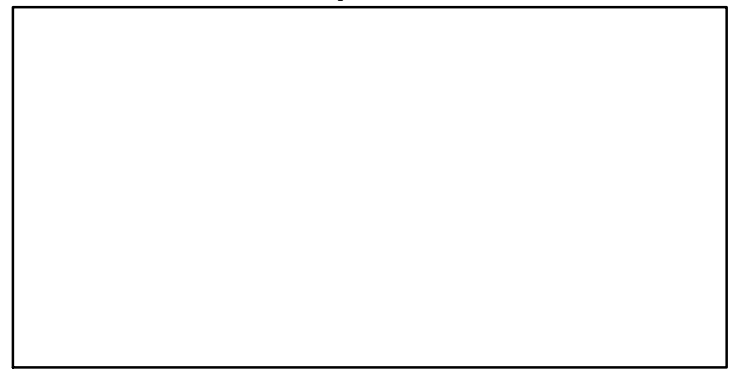
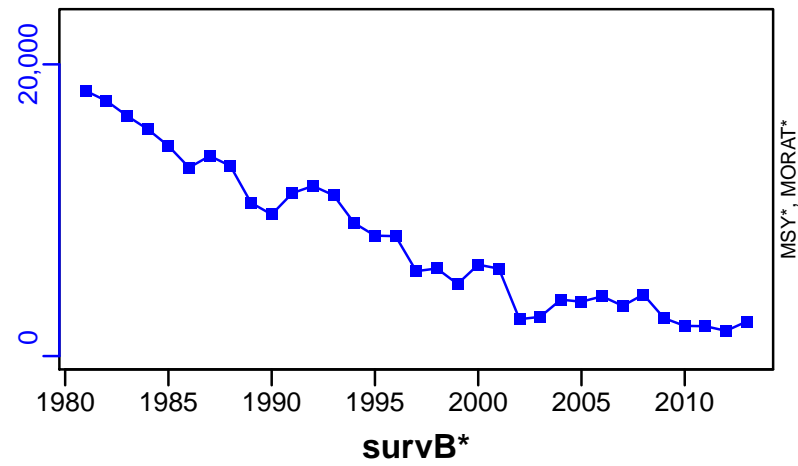
Recruits*



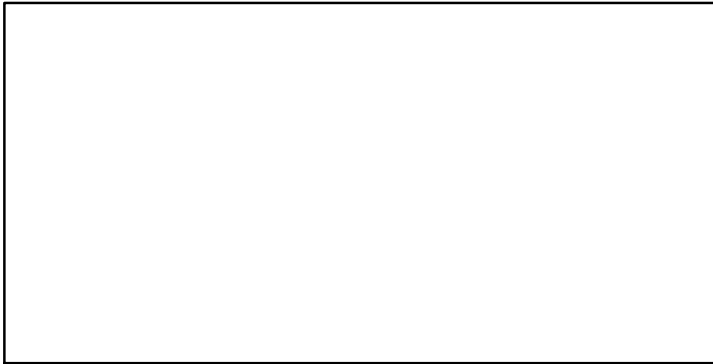
Largehead hairtail Sea of Japan and East China Sea [LHAIRTSOJECS]

TC-MT, TL*, RecC* (1981–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Lavender jobfish Okinawa Islands [LJOBOKWI]

Metadata	
Scientific Name	Pristipomoides sieboldii
Current Assess ID	FAJ-LJOBOKWI-1989-2013-JPNIMP2016
Area	Okinawa Islands
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	103		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

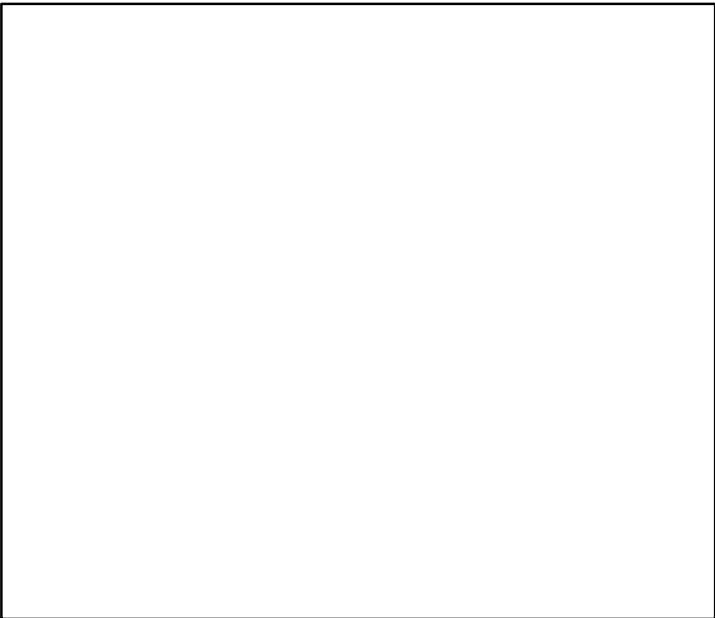
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Lavender jobfish Okinawa Islands [LJOBOKWI]

TB*



SSB*



TN *



F*



ER*

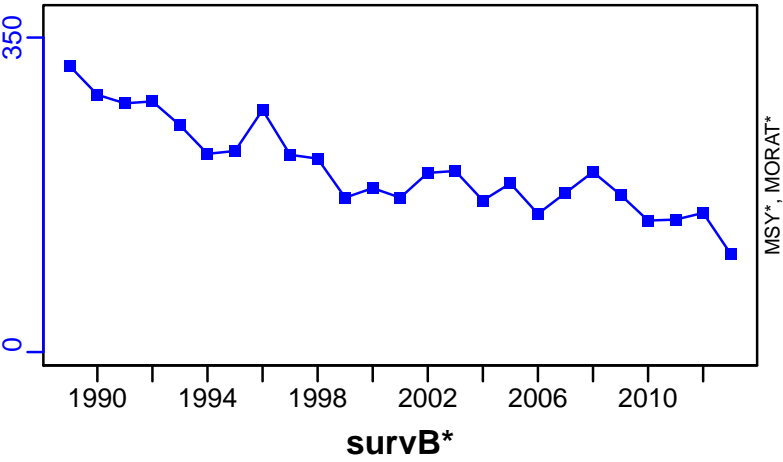


Recruits*



Lavender jobfish Okinawa Islands [LJOBOKWI]

TC-MT, TL*, RecC* (1989-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese flounder East China Sea [OFLOUNECS]

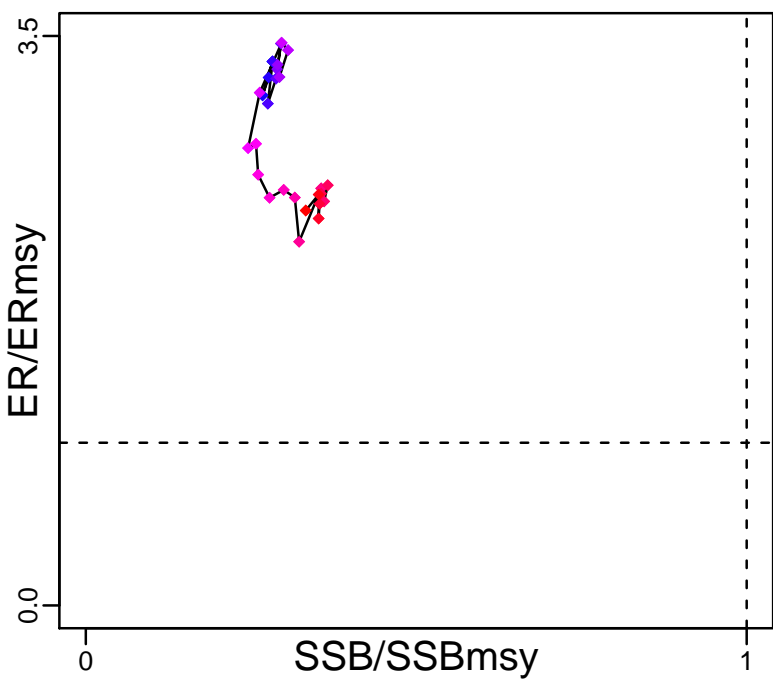
Metadata	
Scientific Name	Paralichthys olivaceus
Current Assess ID	FAJ-OFLOUNECS-1975-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	7393
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.15
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	1182
M	M-1/yr	2013	0.21
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	2181
Flim	-	-	-
ERlim	-	-	-

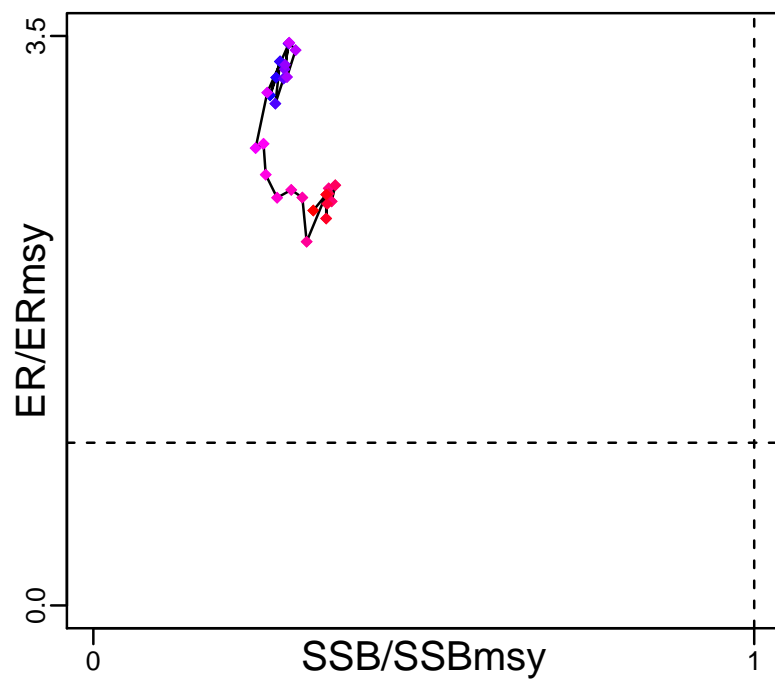
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	3170	-	1
SSB	SSB-MT	2013	2460	Both	2
TN	-	-	-	-	-
R	R-E00	2013	1,290,000	-	0
F	F-1/yr	2010	1	-	0 to 7
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	1160		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.33		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	2.43		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder East China Sea [OFLOUNECS]

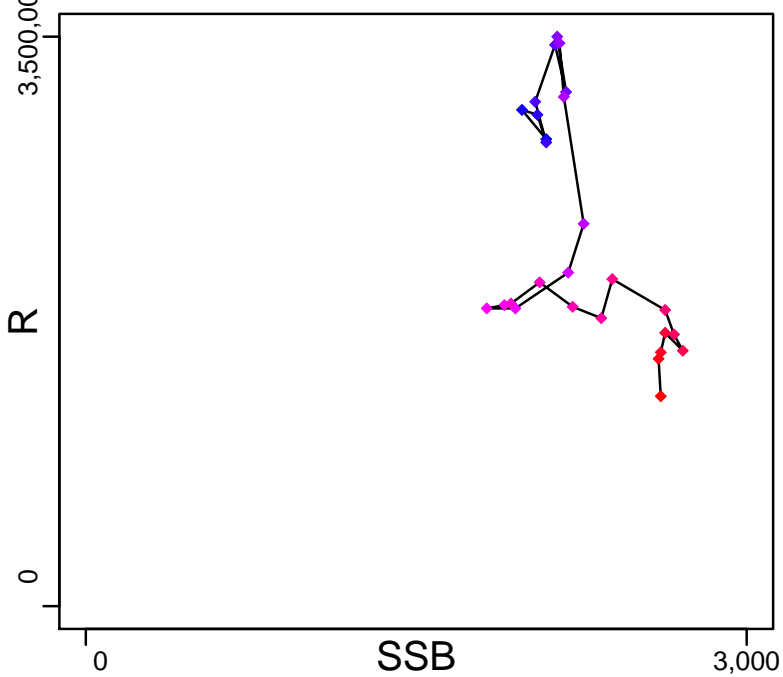
Kobe MSYpref (1975–2013–JPNIMP2016)



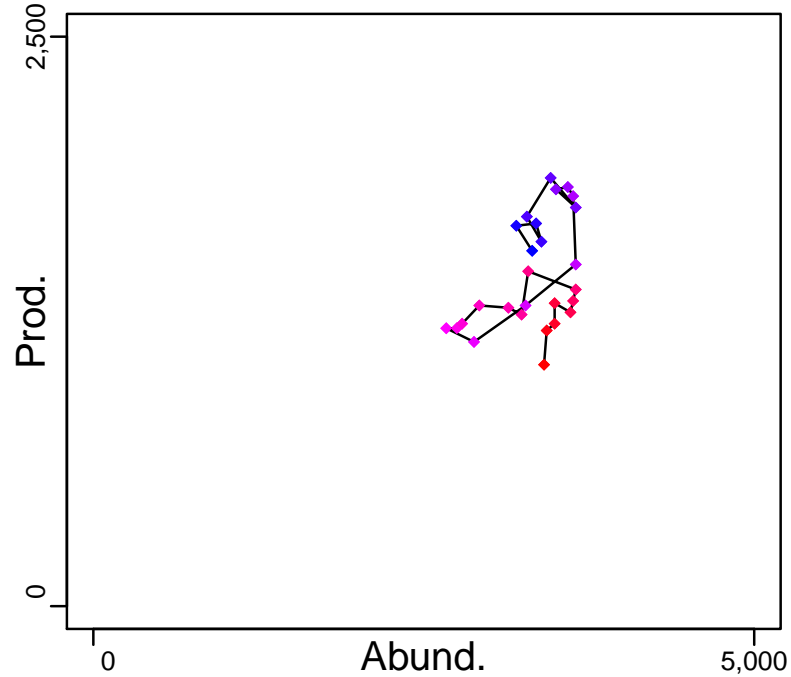
Kobe MGTpref (1975–2013–JPNIMP2016)



Spawner Recruit (1975–2013–JPNIMP2016)



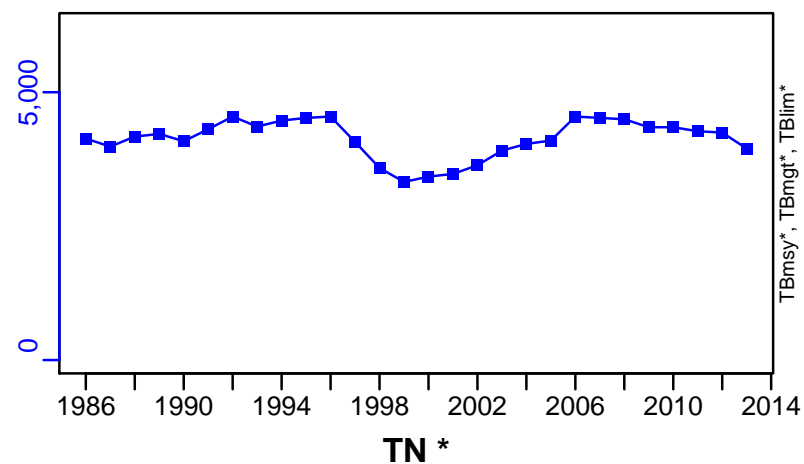
Production (1975–2013–JPNIMP2016)



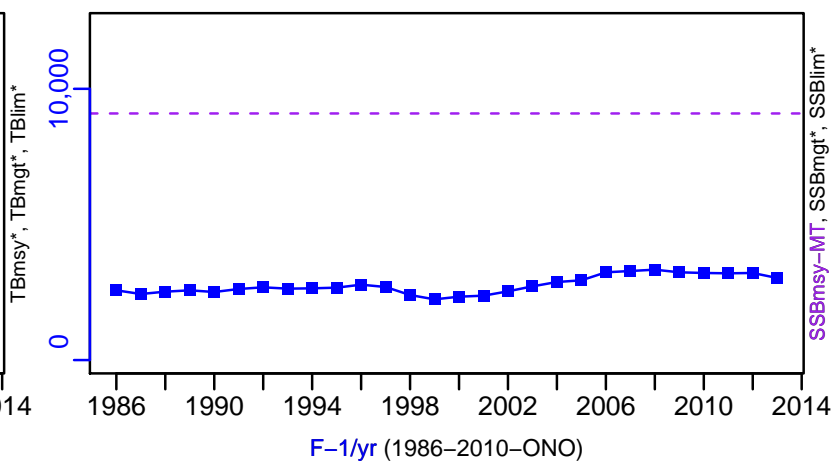
◆ Start Year ◆ End Year * No Data

Japanese flounder East China Sea [OFLOUNECs]

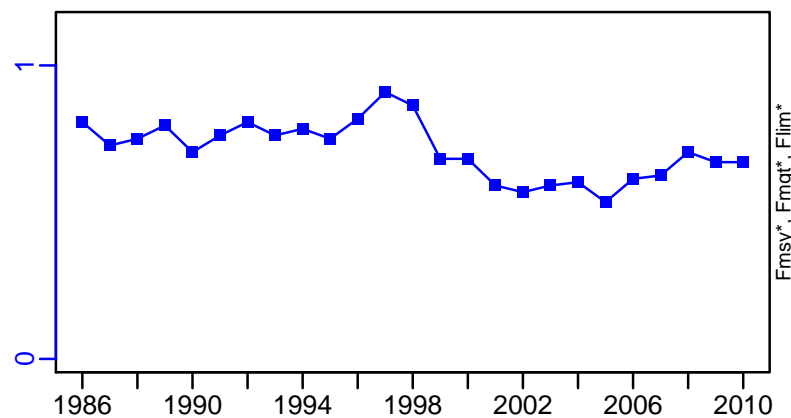
TB-MT (1975-2013-JPNIMP2016)



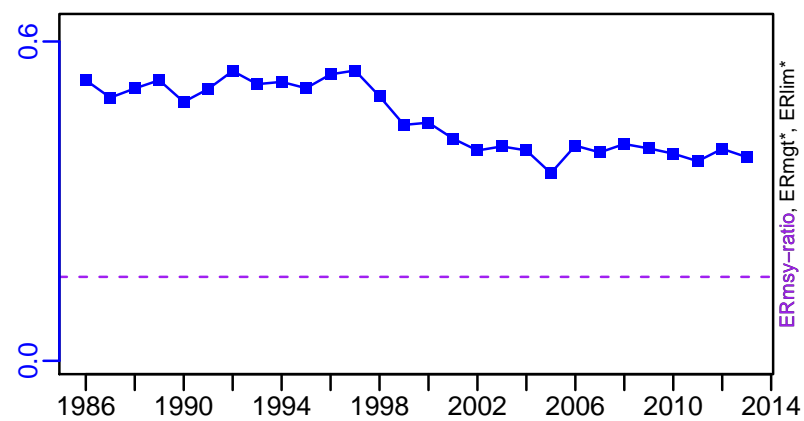
SSB-MT (1975-2013-JPNIMP2016)



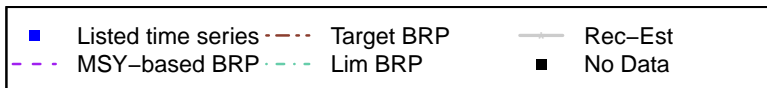
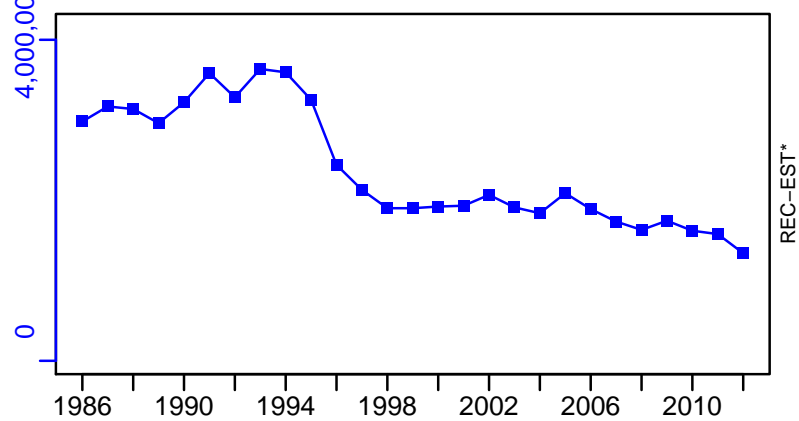
F-1/yr (1986-2010-ONO)



ER-calc-ratio (1975-2013-JPNIMP2016)

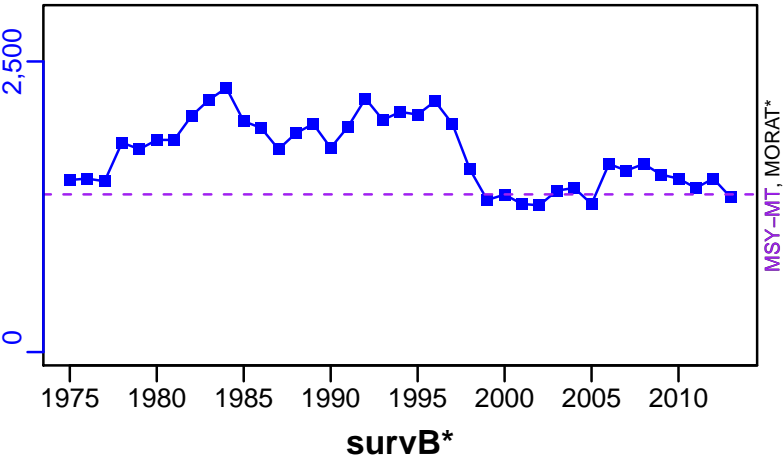


R-E00 (1975-2013-JPNIMP2016)



Japanese flounder East China Sea [OFLOUNECS]

TC-MT, TL*, RecC* (1975-2013-JPNIMP2016)



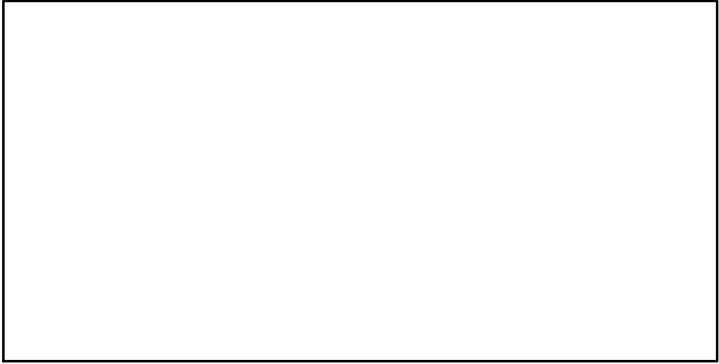
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese flounder Sea of Japan North [OFLOUNNSJ]

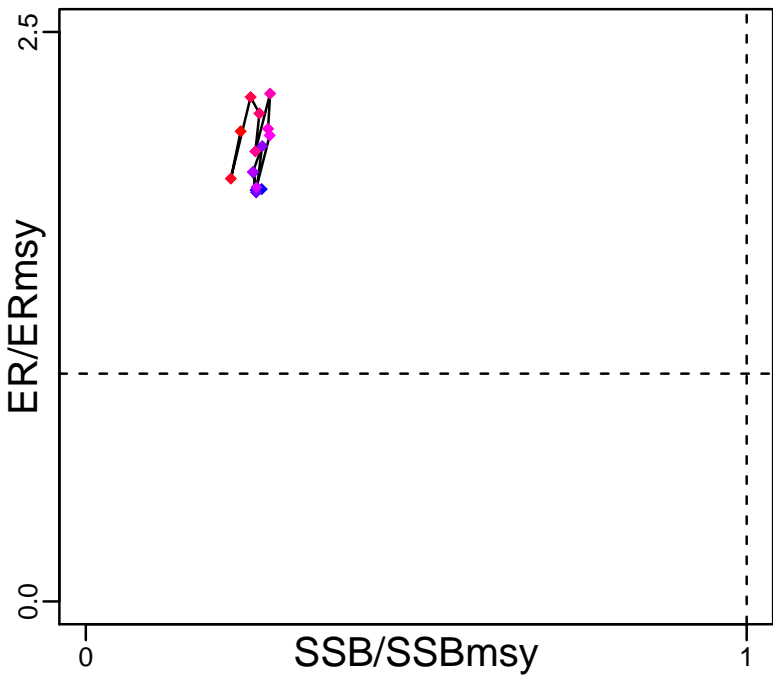
Metadata	
Scientific Name	Paralichthys olivaceus
Current Assess ID	FAJ-OFLOUNNSJ-1970-2013-JPNIMP2016
Area	Sea of Japan North
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	6160
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.22
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	1556
M	M-1/yr	2013	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	2900
Flim	-	-	-
ERlim	-	-	-

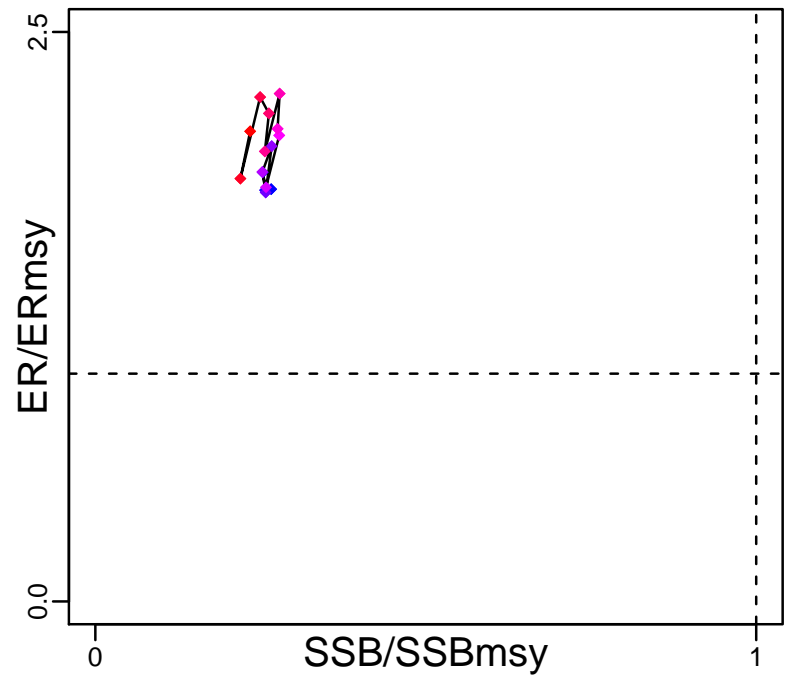
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	2210	-	1
SSB	SSB-MT	2013	1440	Both	2
TN	-	-	-	-	-
R	R-E00	2013	1,990,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	992		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.23		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	2.06		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder Sea of Japan North [OFLOUNNSJ]

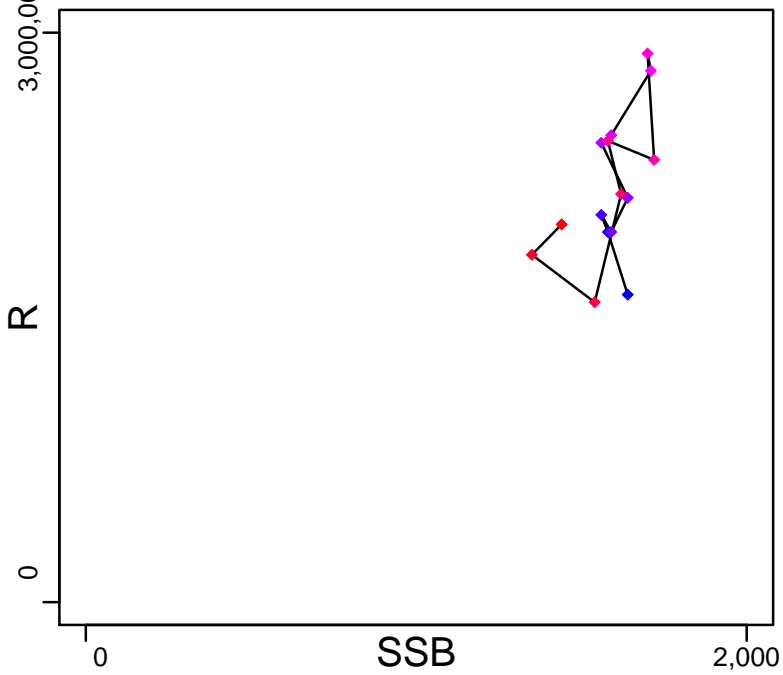
Kobe MSYpref (1970–2013–JPNIMP2016)



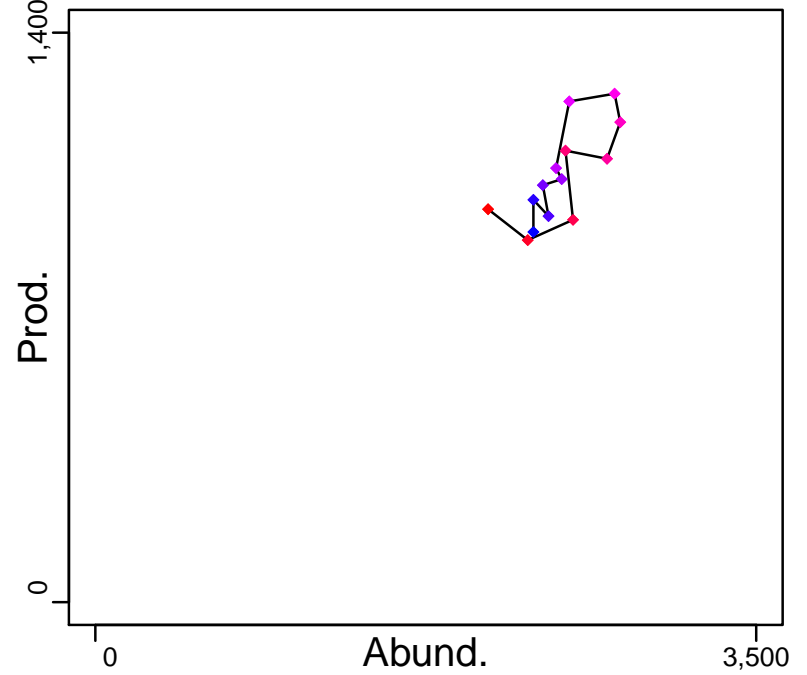
Kobe MGTpref (1970–2013–JPNIMP2016)



Spawner Recruit (1970–2013–JPNIMP2016)



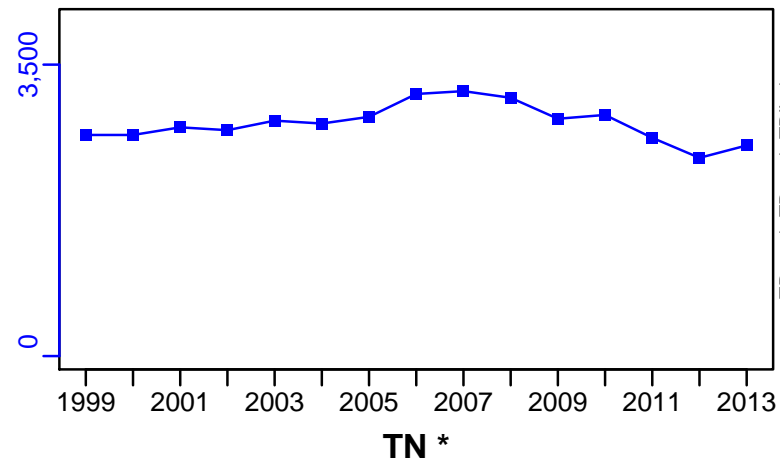
Production (1970–2013–JPNIMP2016)



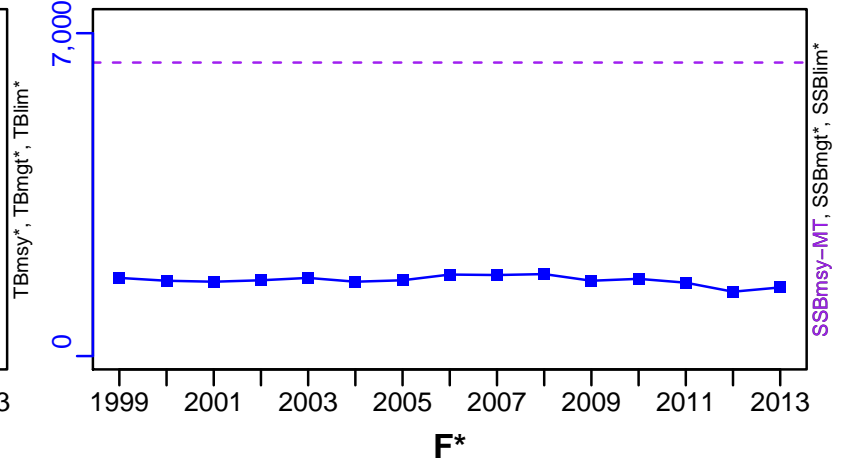
◆ Start Year ◆ End Year * No Data

Japanese flounder Sea of Japan North [OFLOUNNSJ]

TB-MT (1970-2013-JPNIMP2016)

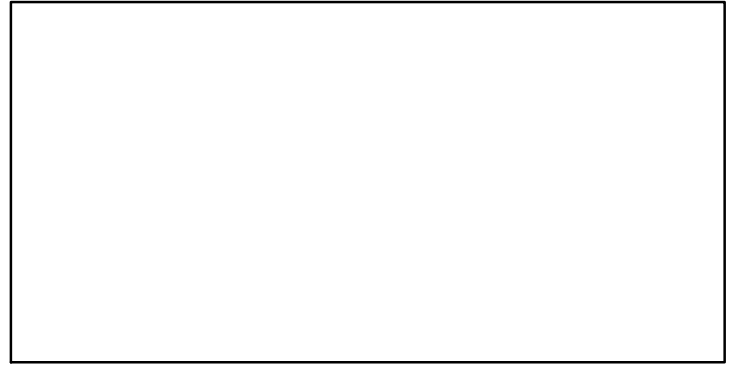
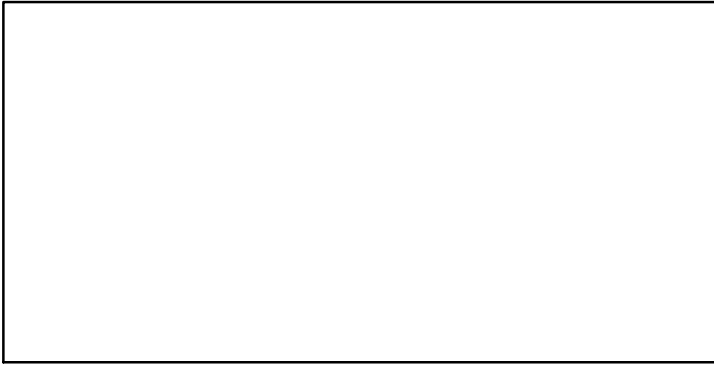


SSB-MT (1970-2013-JPNIMP2016)

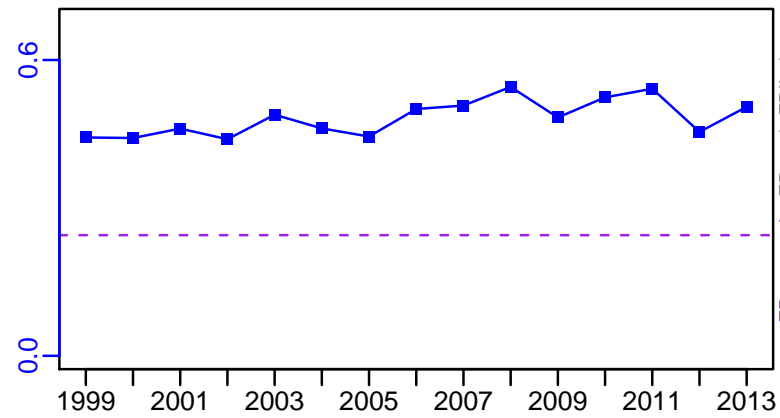


TN *

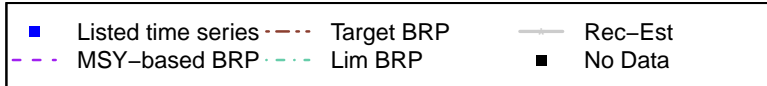
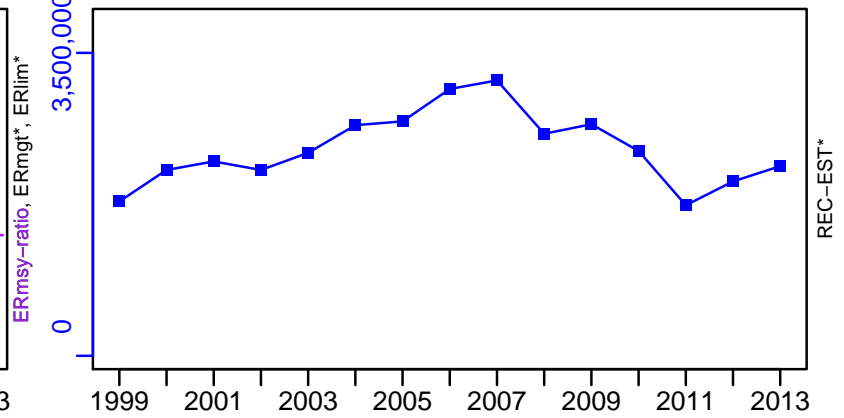
F*



ER-calc-ratio (1970-2013-JPNIMP2016)

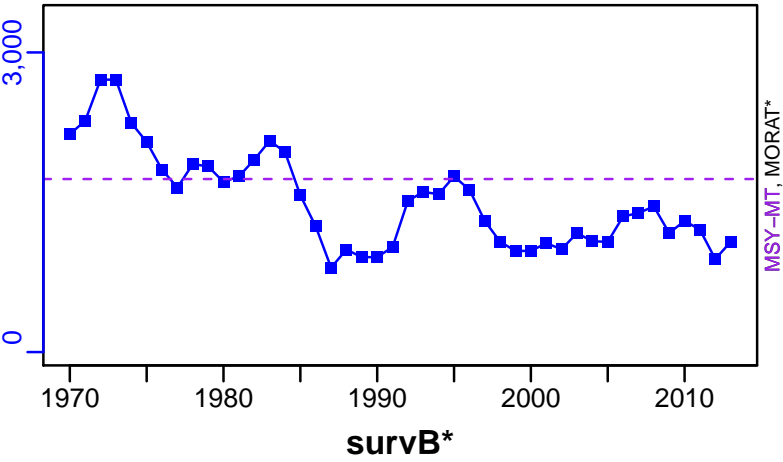


R-E00 (1970-2013-JPNIMP2016)



Japanese flounder Sea of Japan North [OFLOUNNSJ]

TC-MT, TL*, RecC* (1970-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese flounder Pacific Ocean [OFLOUNPAC]

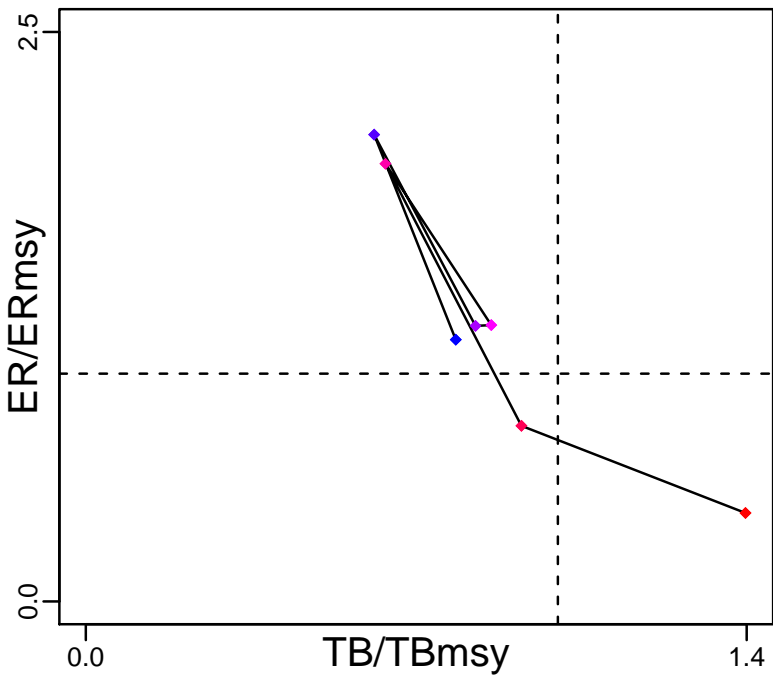
Metadata	
Scientific Name	Paralichthys olivaceus
Current Assess ID	FAJ-OFLOUNPAC-1970-2013-JPNIMP2016
Area	Pacific Ocean
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	5146
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.42
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	2156
M	M-1/yr	2013	0.21
TBlim	-	-	-
SSBlim	SSBlim-MT	2009	1600
Flim	-	-	-
ERlim	-	-	-

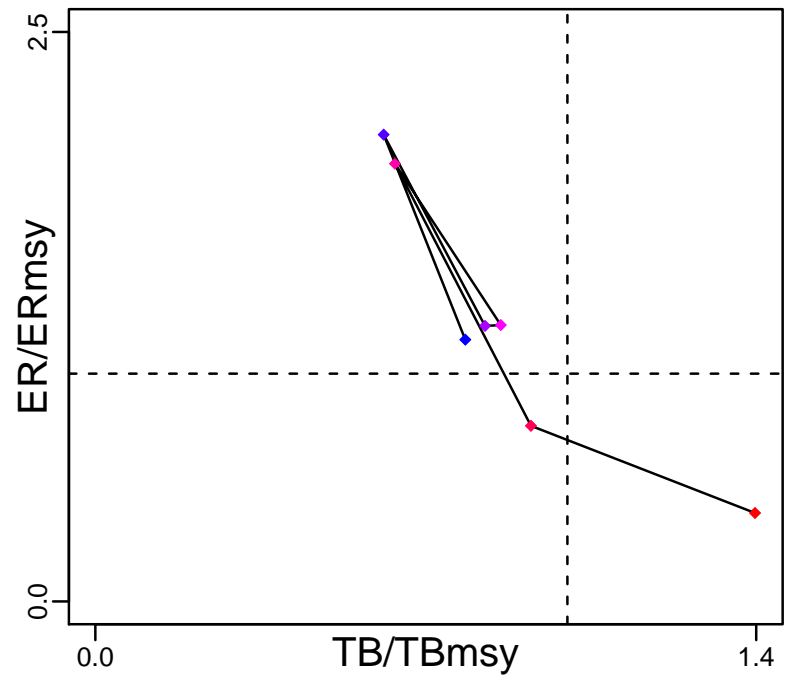
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	7190	-	1
SSB	SSB-MT	2013	1070	Both	3
TN	-	-	-	-	-
R	R-E00	2013	1,940,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	2380		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.4		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.39		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder Pacific Ocean [OFLOUNPAC]

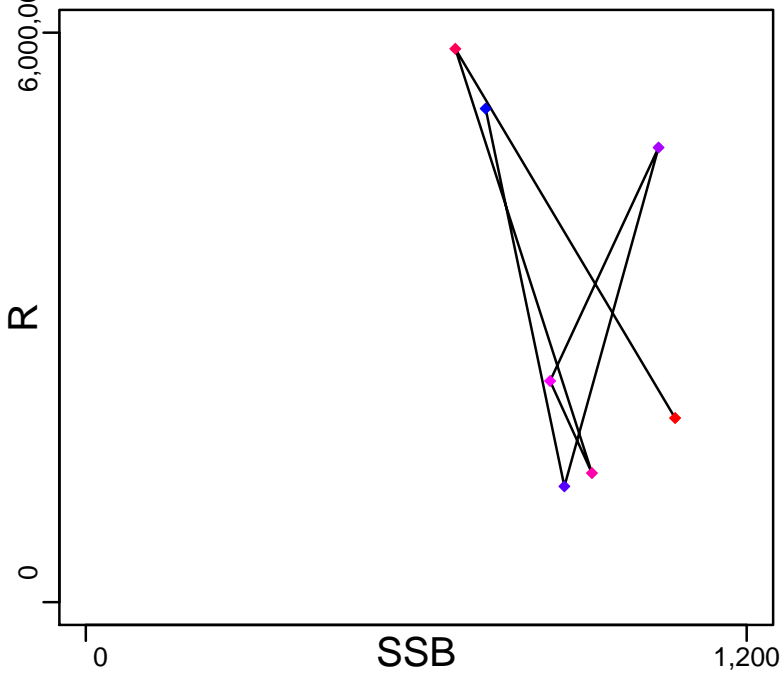
Kobe MSYpref (1970–2013–JPNIMP2016)



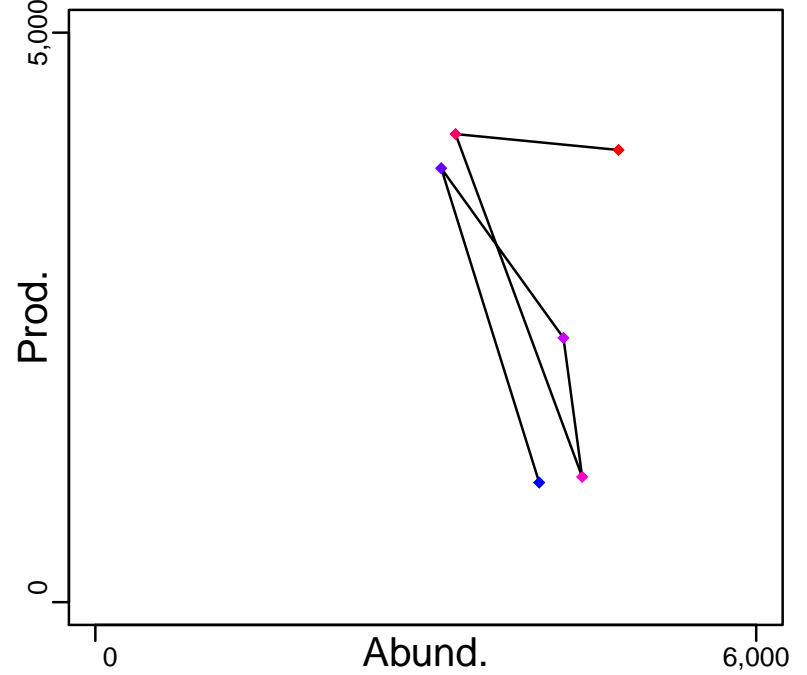
Kobe MGTpref (1970–2013–JPNIMP2016)



Spawner Recruit (1970–2013–JPNIMP2016)



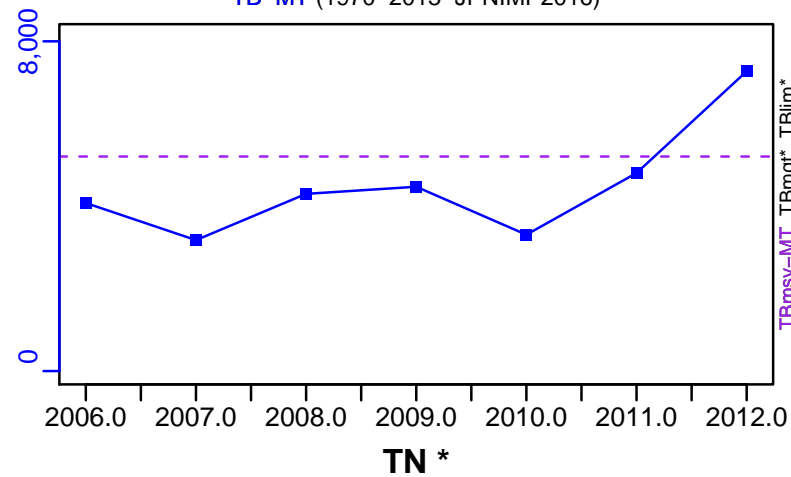
Production (1970–2013–JPNIMP2016)



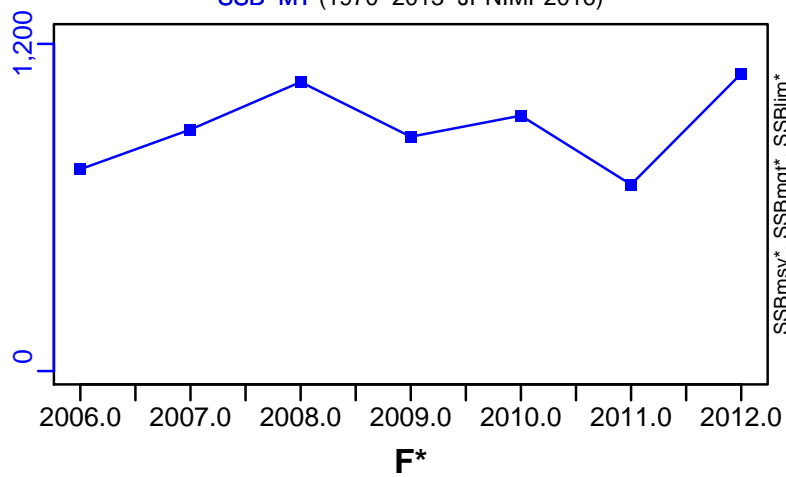
◆ Start Year ◆ End Year * No Data

Japanese flounder Pacific Ocean [OFLOUNPAC]

TB-MT (1970-2013-JPNIMP2016)



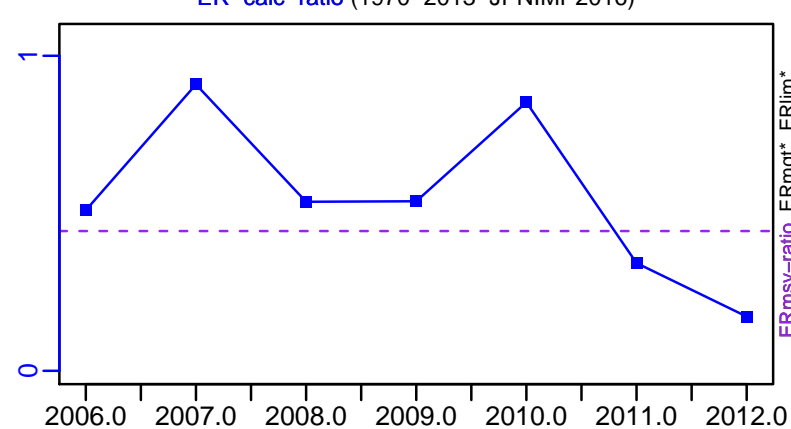
SSB-MT (1970-2013-JPNIMP2016)



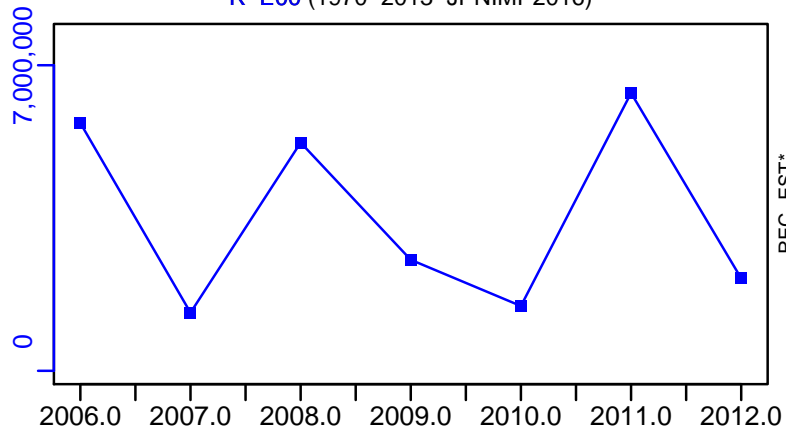
TN *

F*

ER-calc-ratio (1970-2013-JPNIMP2016)

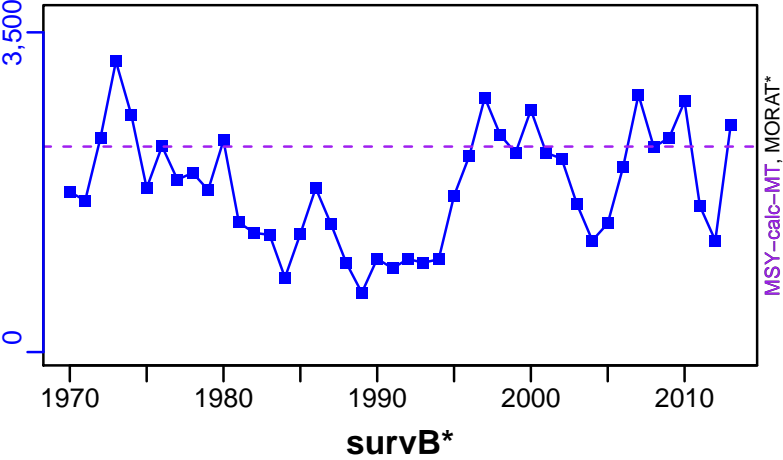


R-E00 (1970-2013-JPNIMP2016)



Japanese flounder Pacific Ocean [OFLOUNPAC]

TC-MT, TL*, RecC* (1970-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese flounder Inland Sea of Japan [OFLOUNSETO]

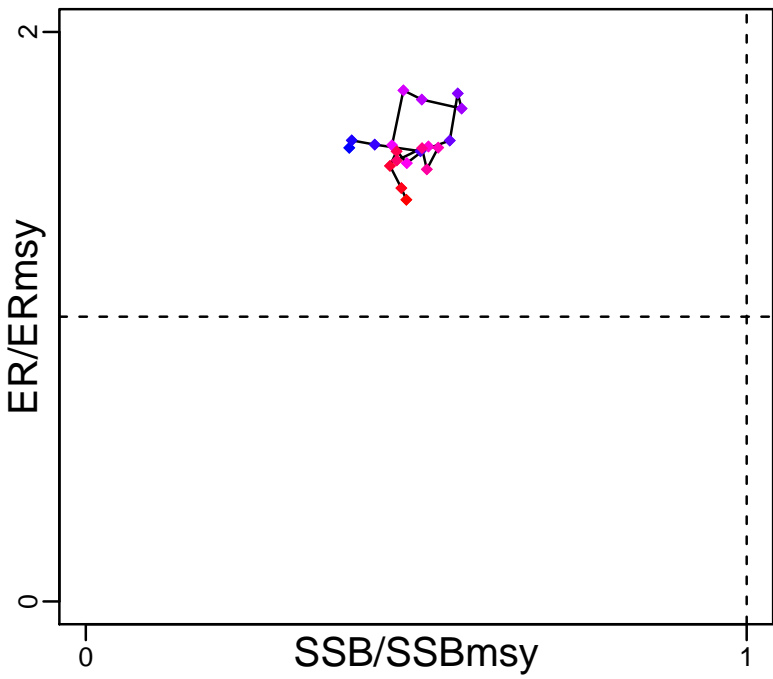
Metadata	
Scientific Name	Paralichthys olivaceus
Current Assess ID	FAJ-OFLOUNSETO-1965-2013-JPNIMP2016
Area	Inland Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	3899
SSBmsy	SSBmsy-MT	2013	2905
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.22
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	875
M	M-1/yr	2013	0.31
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	992
Flim	-	-	-
ERlim	-	-	-

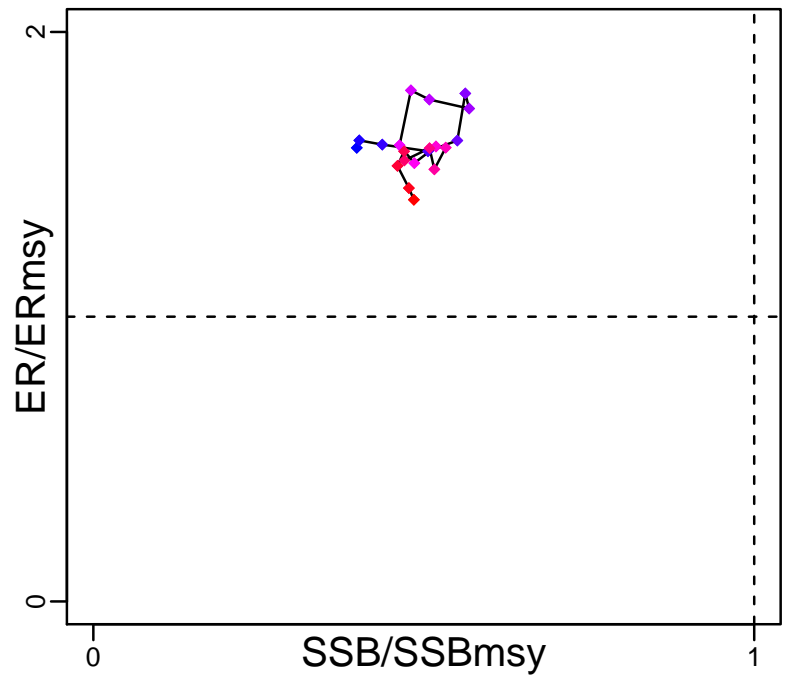
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	2170	-	0
SSB	SSB-MT	2013	1410	Both	2
TN	-	-	-	-	-
R	R-E00	2013	897,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	668		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.5		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.49		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.41		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder Inland Sea of Japan [OFLOUNSETO]

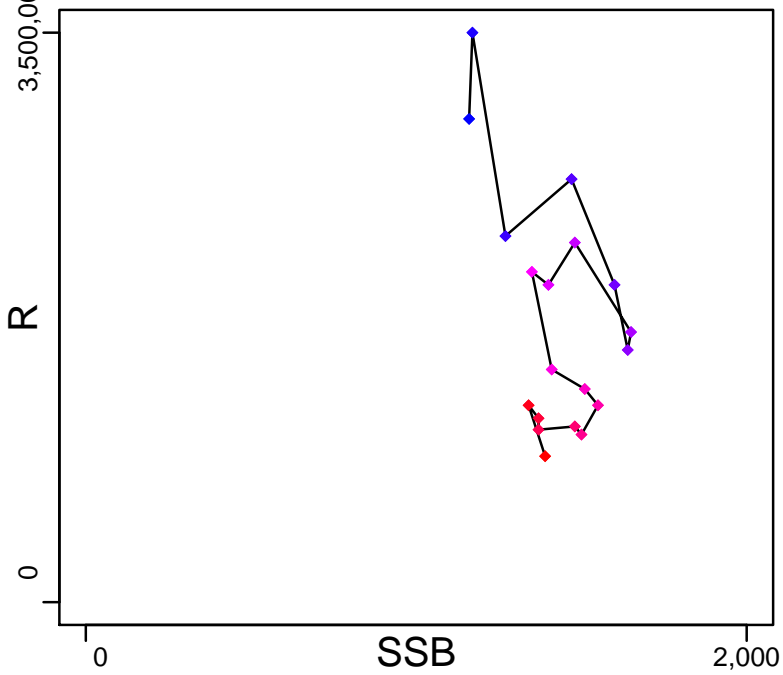
Kobe MSYpref (1965–2013–JPNIMP2016)



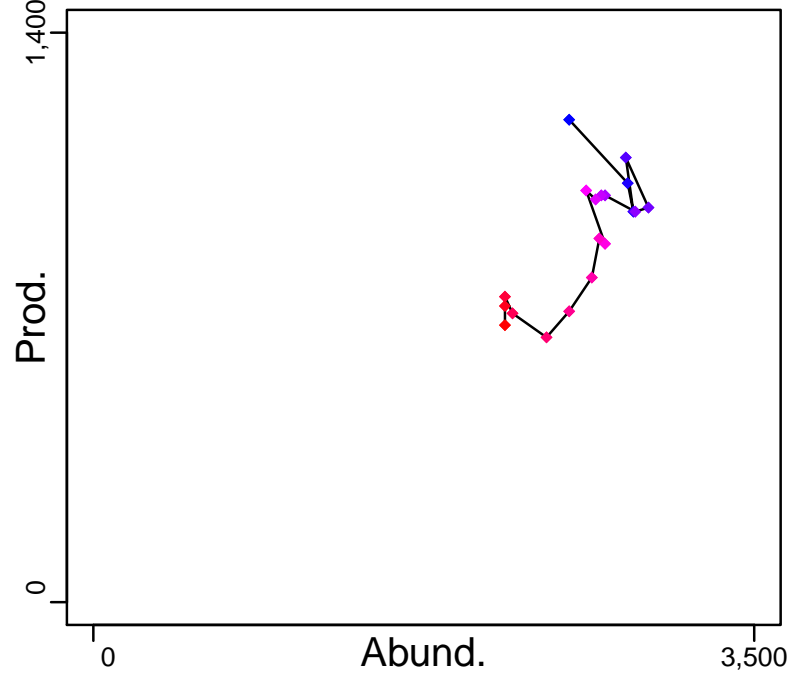
Kobe MGTpref (1965–2013–JPNIMP2016)



Spawner Recruit (1965–2013–JPNIMP2016)



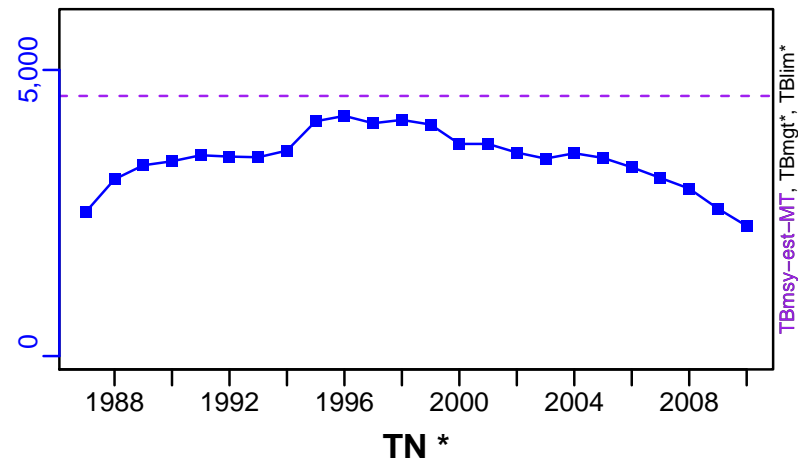
Production (1965–2013–JPNIMP2016)



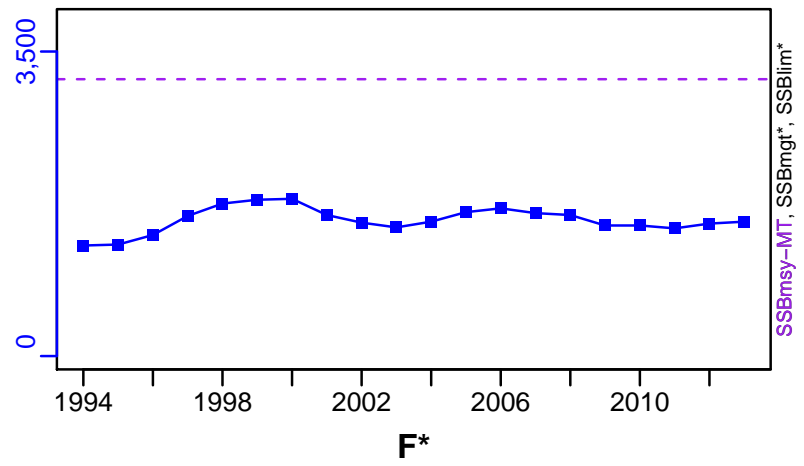
◆ Start Year ◆ End Year * No Data

Japanese flounder Inland Sea of Japan [OFLOUNSETO]

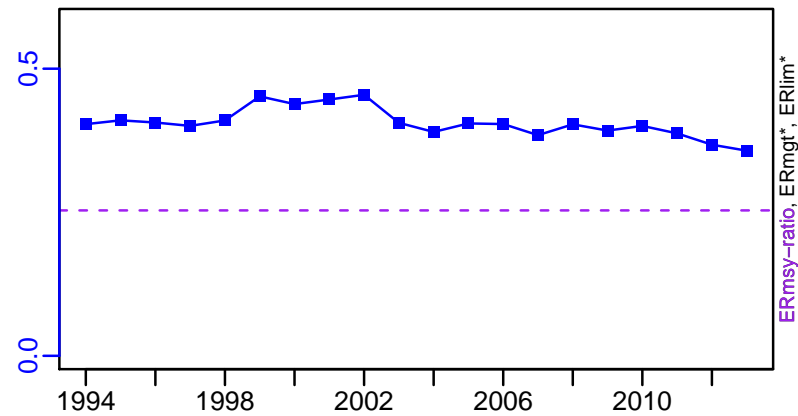
TB-MT (1987-2010-ONO)



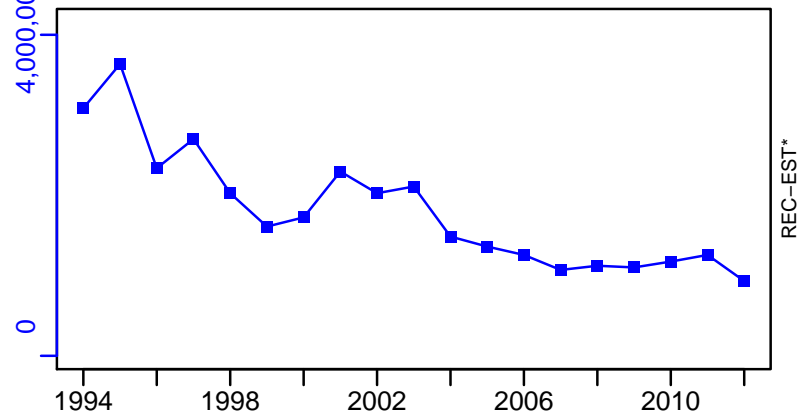
SSB-MT (1965-2013-JPNIMP2016)



ER-calc-ratio (1965-2013-JPNIMP2016)



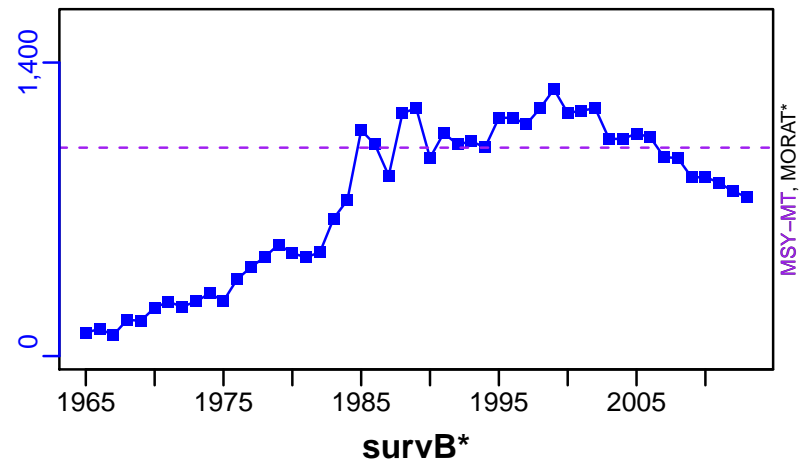
R-E00 (1965-2013-JPNIMP2016)



Japanese flounder Inland Sea of Japan [OFLOUNSETO]

TC-MT, TL*, RecC* (1965-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Pacific cod Hokkaido [PCODHOKK]

Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	FAJ-PCODHOKK-1985-2013-JPNIMP2016
Area	Hokkaido
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	M-1/yr	2013	0.31
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	28,900		
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*

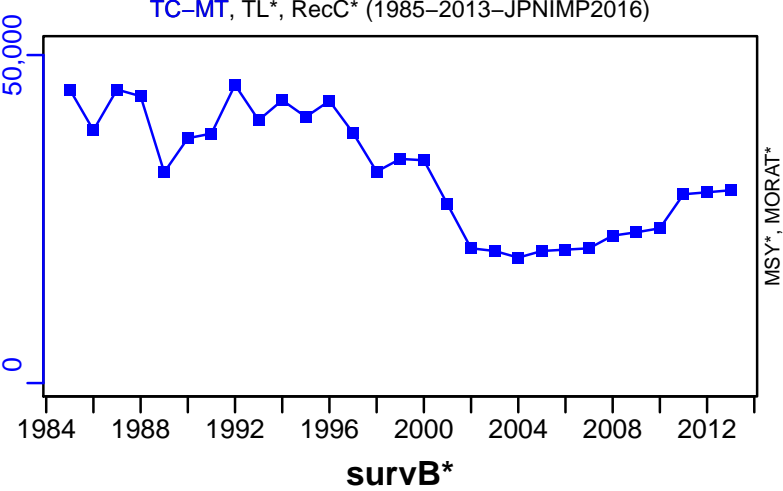


Recruits*



Pacific cod Hokkaido [PCODHOKK]

TC-MT, TL*, RecC* (1985-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Pacific cod North Pacific [PCODNPAC]

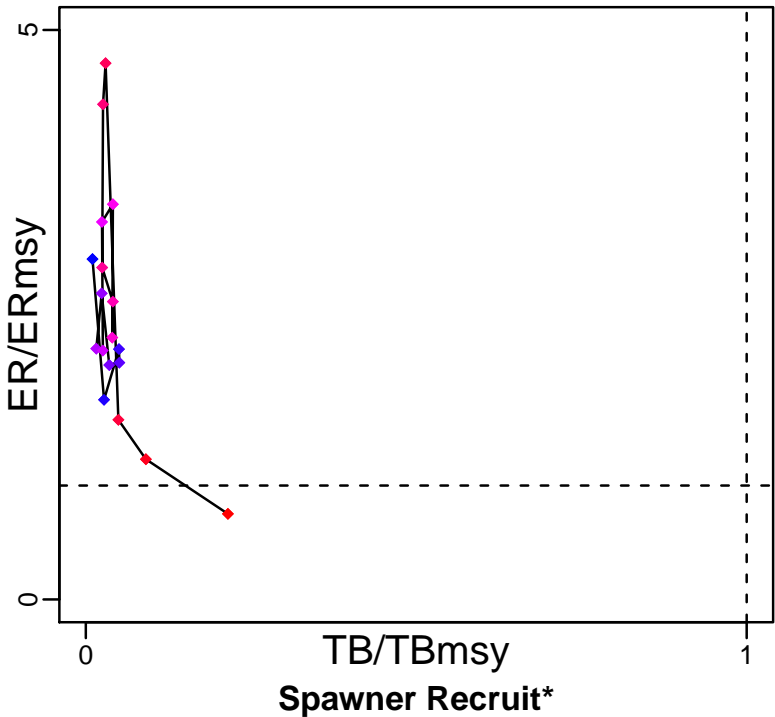
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	FAJ-PCODNPAC-1975-2014-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2014	1,297,226
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.14
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2014	188,098
M	M-1/yr	2014	0.31
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

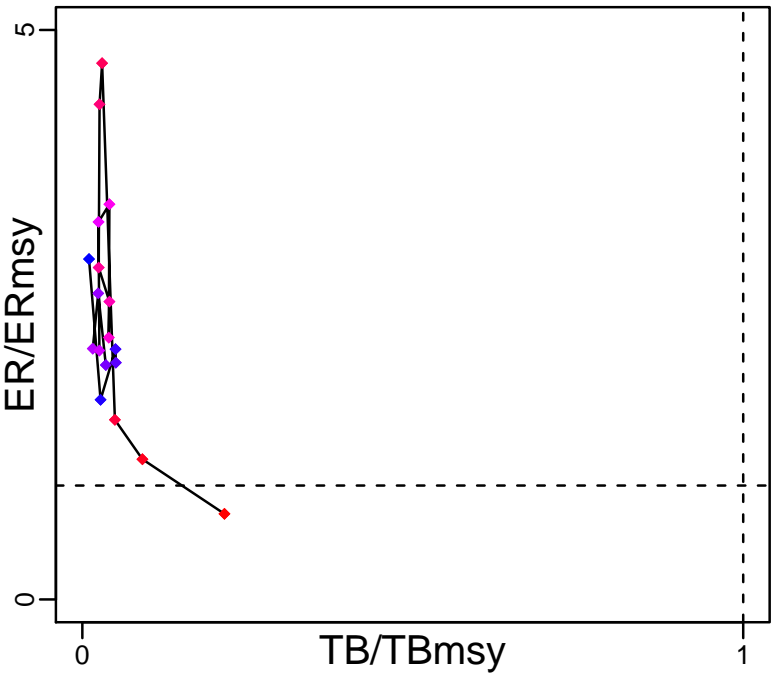
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	267,000	-	1
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	30,400		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	0.21		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.75		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod North Pacific [PCODNPAC]

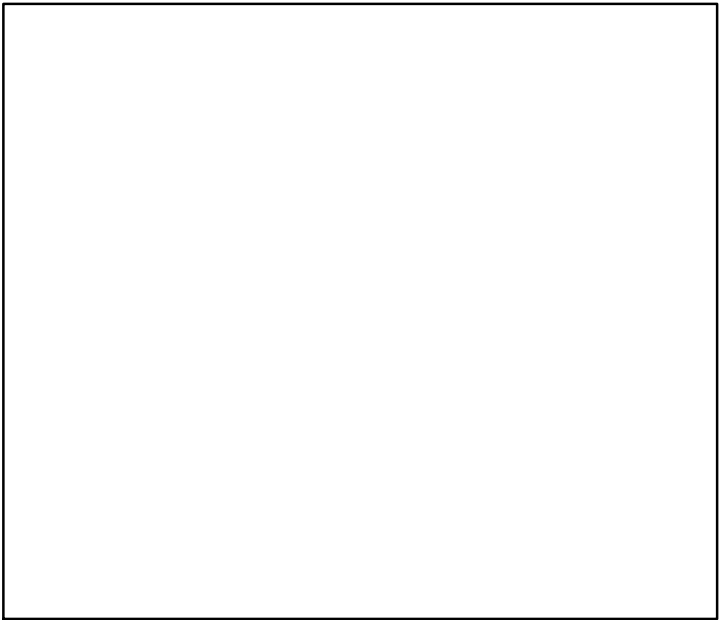
Kobe MSYpref (1975–2014–JPNIMP2016)



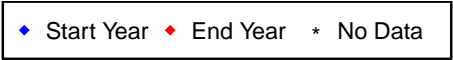
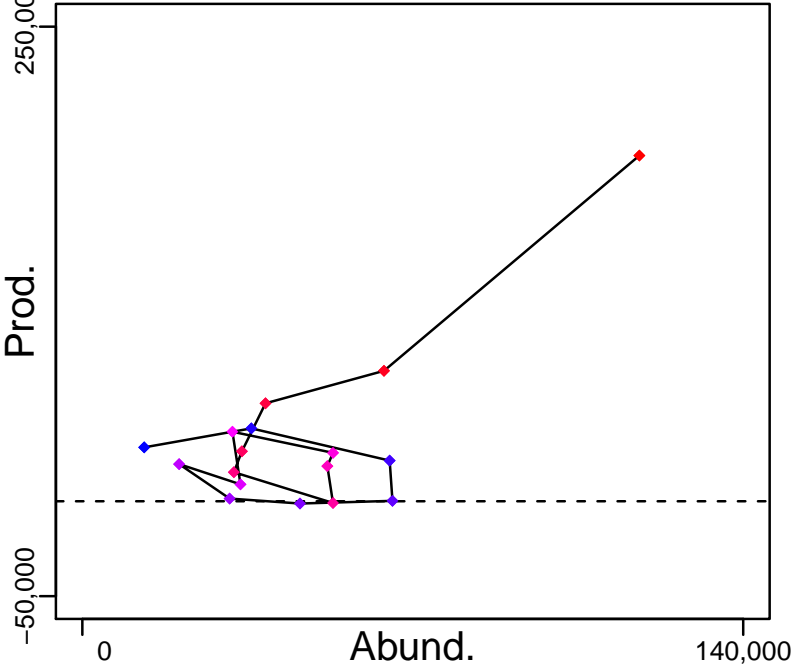
Kobe MGTpref (1975–2014–JPNIMP2016)



Spawner Recruit*

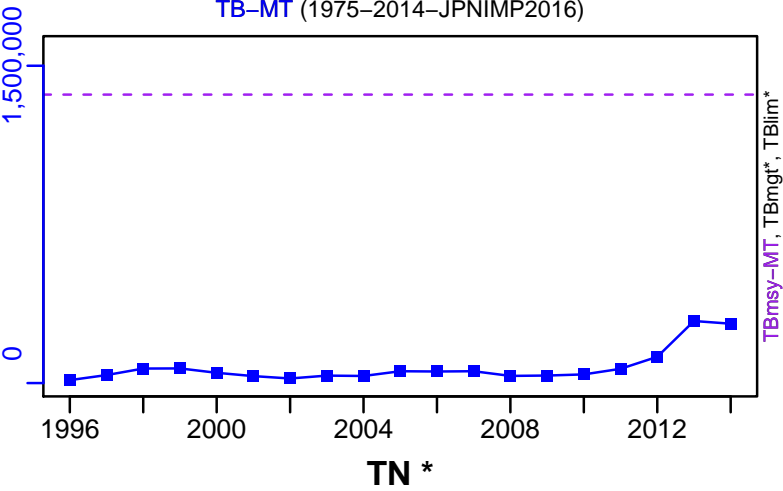


Production (1975–2014–JPNIMP2016)



Pacific cod North Pacific [PCODNPAC]

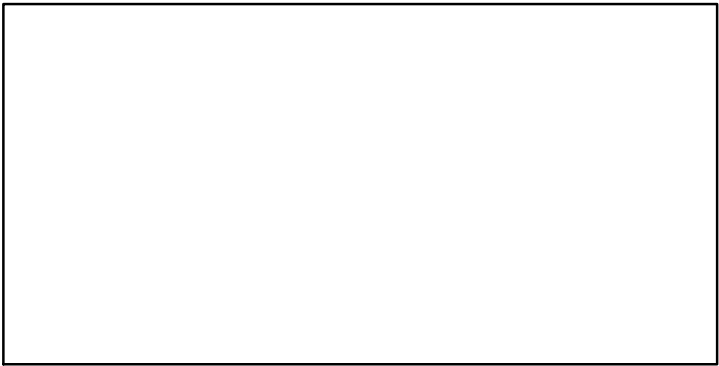
TB-MT (1975-2014-JPNIMP2016)



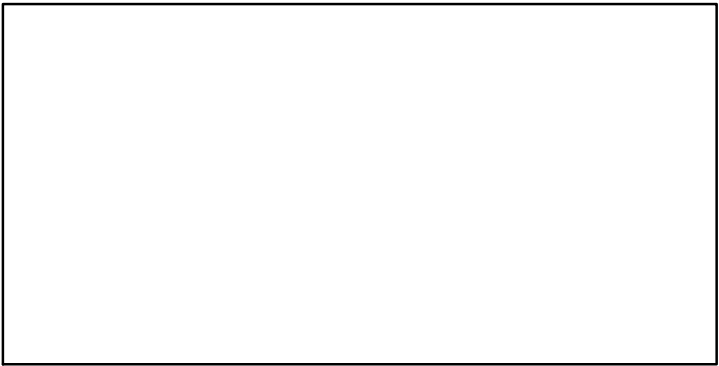
SSB*



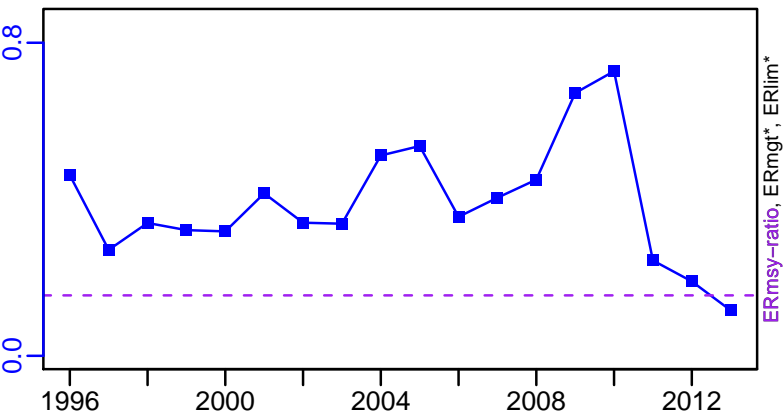
TN *



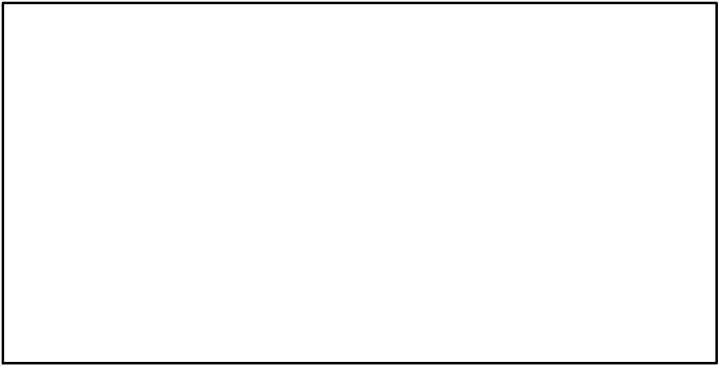
F*



ER-calc-ratio (1975-2014-JPNIMP2016)

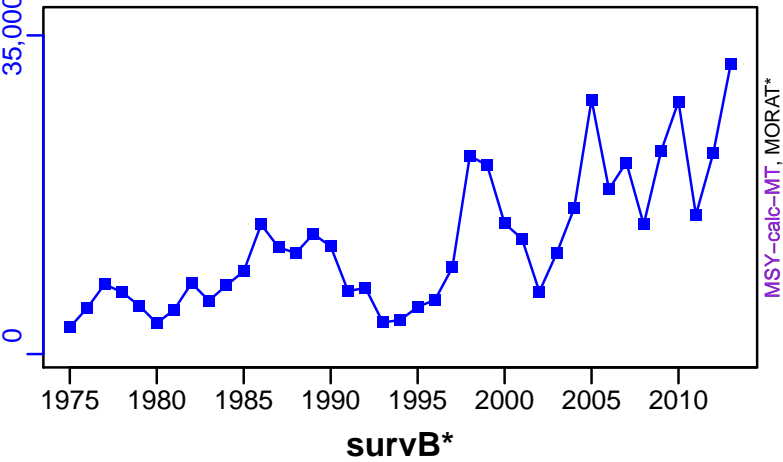


Recruits*



Pacific cod North Pacific [PCODNPAC]

TC-MT, TL*, RecC* (1975-2014-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*

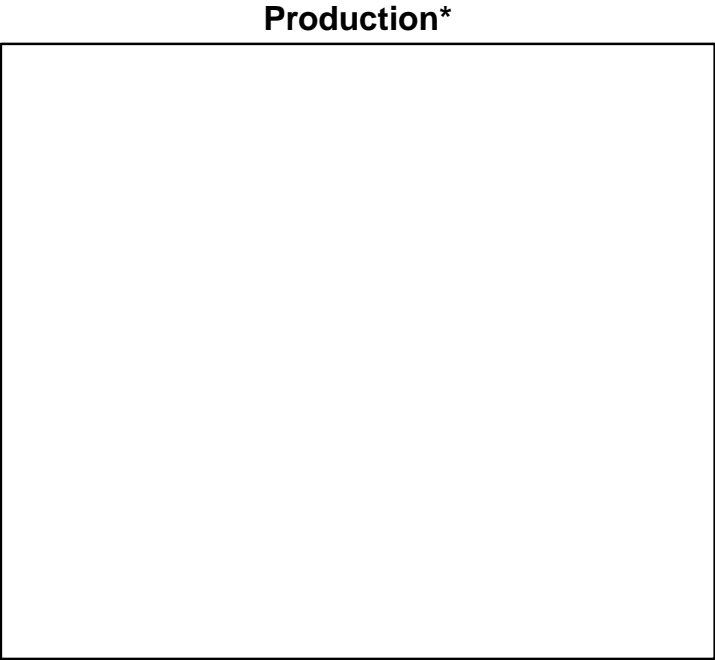
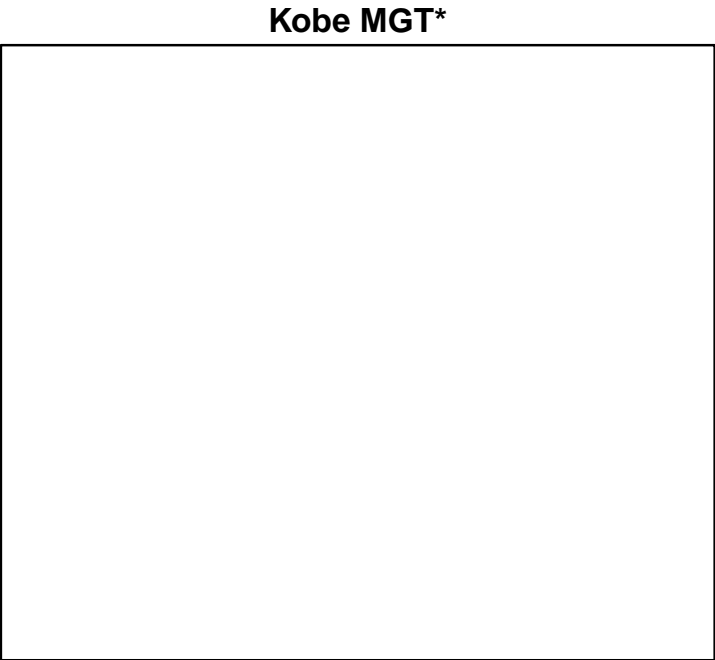
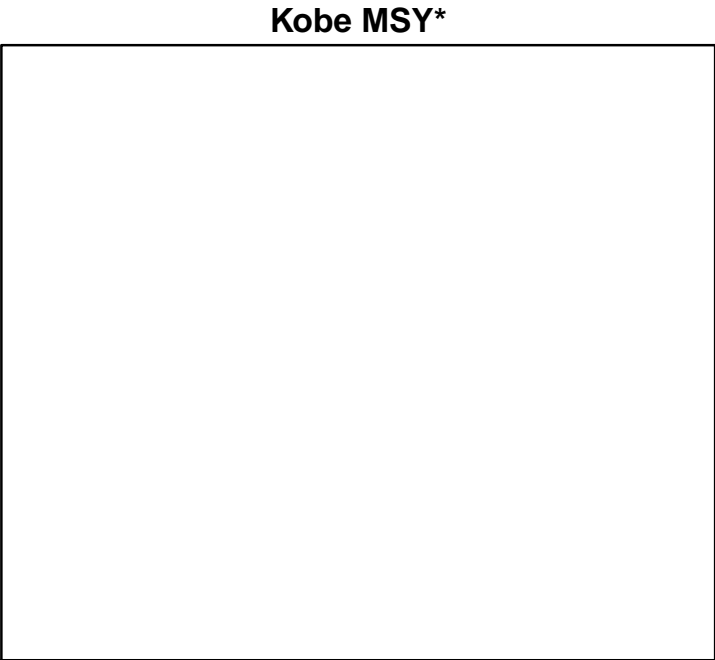


Pacific cod Sea of Japan [PCODSOJ]

Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	FAJ-PCODSOJ-1964-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	M-1/yr	2013	0.31
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

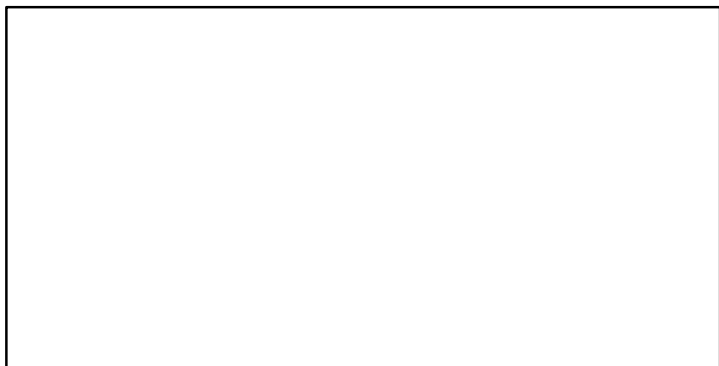
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	3920		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



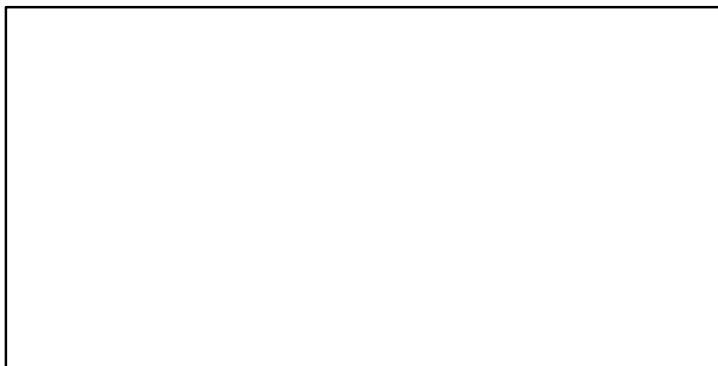
◆ Start Year ♦ End Year * No Data

Pacific cod Sea of Japan [PCODSOJ]

TB*



SSB*



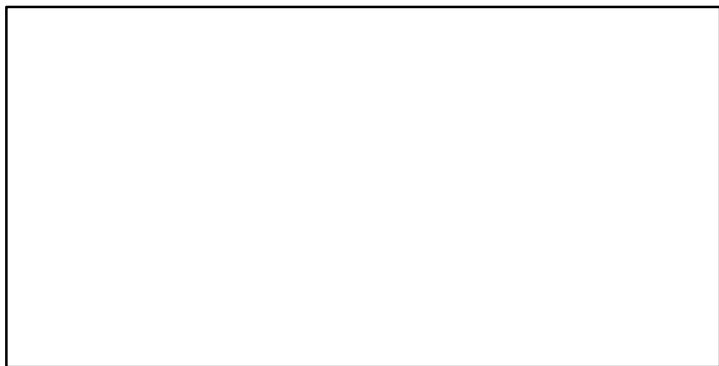
TN *



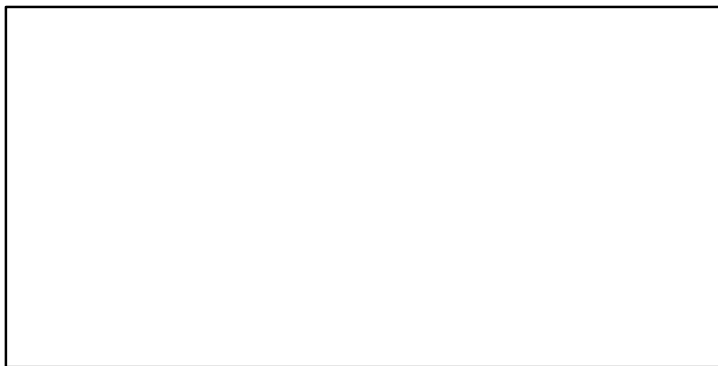
F*



ER*



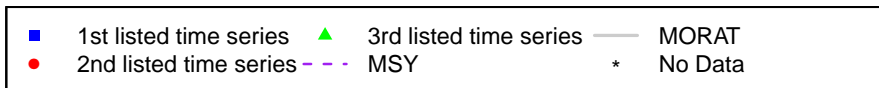
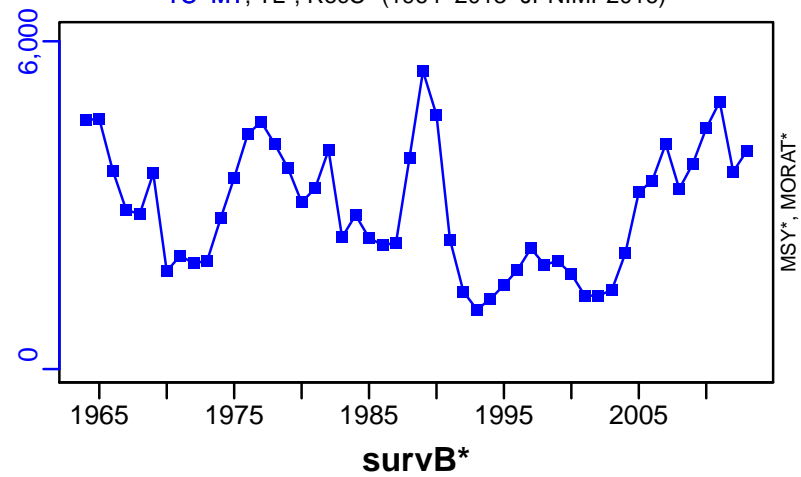
Recruits*



Pacific cod Sea of Japan [PCODSOJ]

TC-MT, TL*, RecC* (1964-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



Pointhead flounder North coast of Hokkaido [PHFLOUNNHOKK]

Metadata	
Scientific Name	Cleisthenes Herzensteini
Current Assess ID	FAJ-PHFLOUNNHOKK-1985-2013-JPNIMP2016
Area	North coast of Hokkaido
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

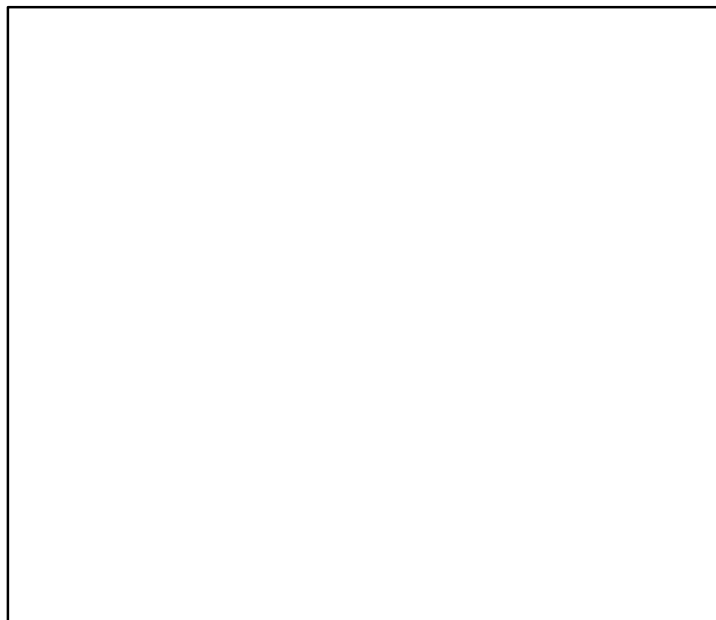
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



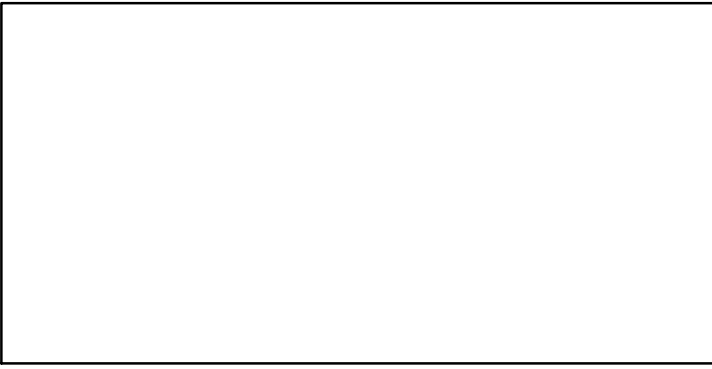
Production*



◆ Start Year ◆ End Year * No Data

Pointhead flounder North coast of Hokkaido [PHFLOUNNHOKK]

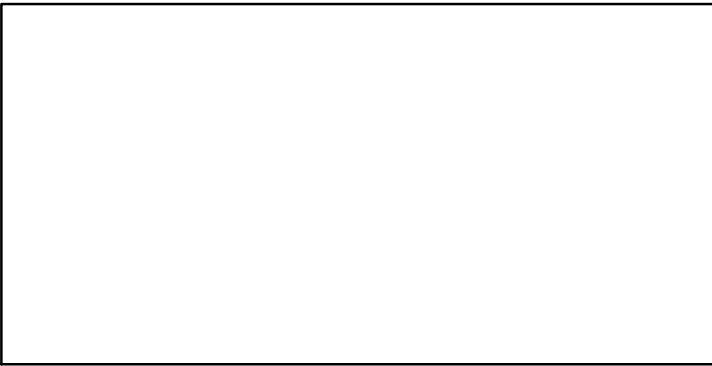
TB*



SSB*



TN *



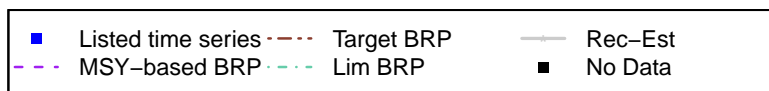
F*



ER*



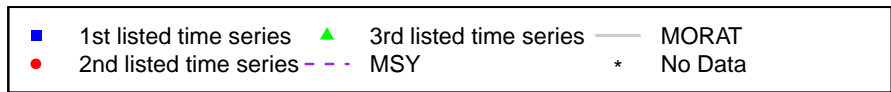
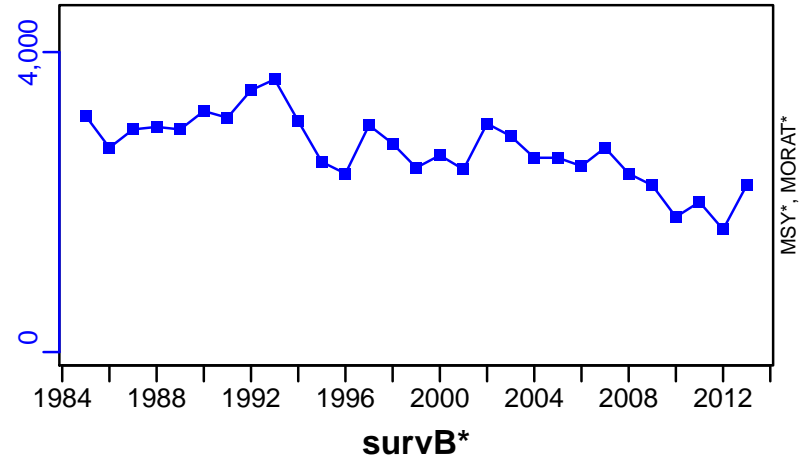
Recruits*



Pointhead flounder North coast of Hokkaido [PHFLOUNNHOKK]

TC-MT, TL*, RecC* (1985-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



Pointhead flounder Sea of Japan [PHFLOUNSOJ]

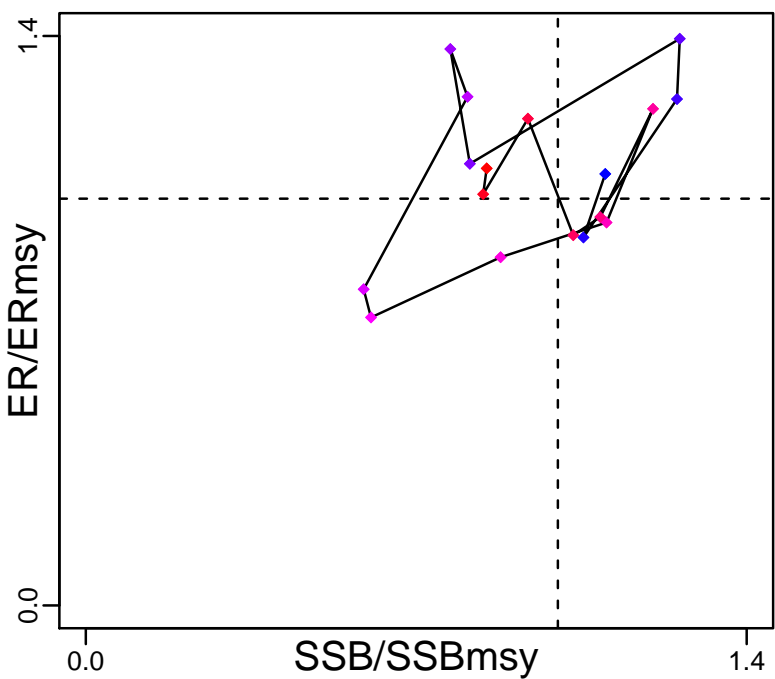
Metadata	
Scientific Name	Cleisthenes Herzensteini
Current Assess ID	FAJ-PHFLOUNSOJ-1966-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	4113
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.32
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	2962
M	M-1/yr	2013	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

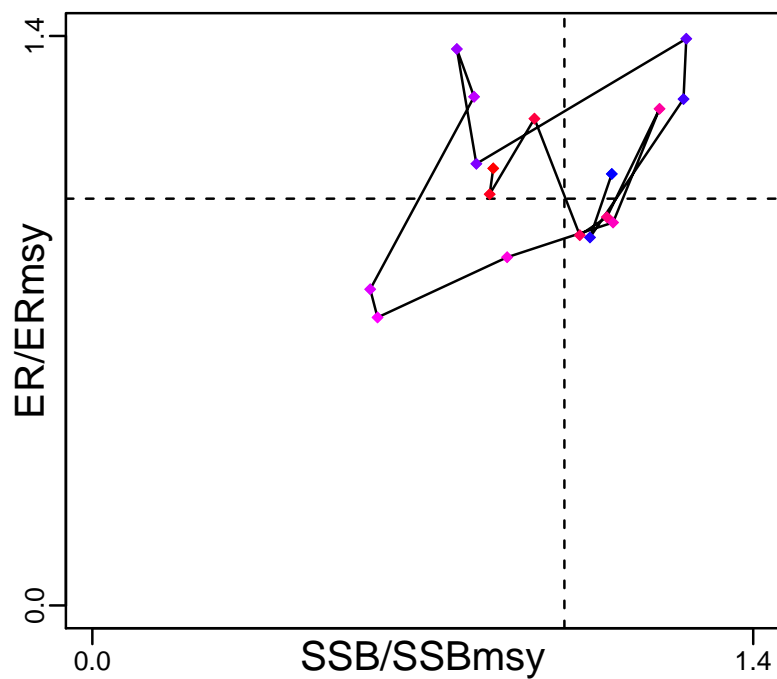
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	8850	-	1
SSB	SSB-MT	2013	3490	Both	3
TN	-	-	-	-	-
R	R-E00	2013	4.1×10^7	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	3030		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.85		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.07		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pointhead flounder Sea of Japan [PHFLOUNSOJ]

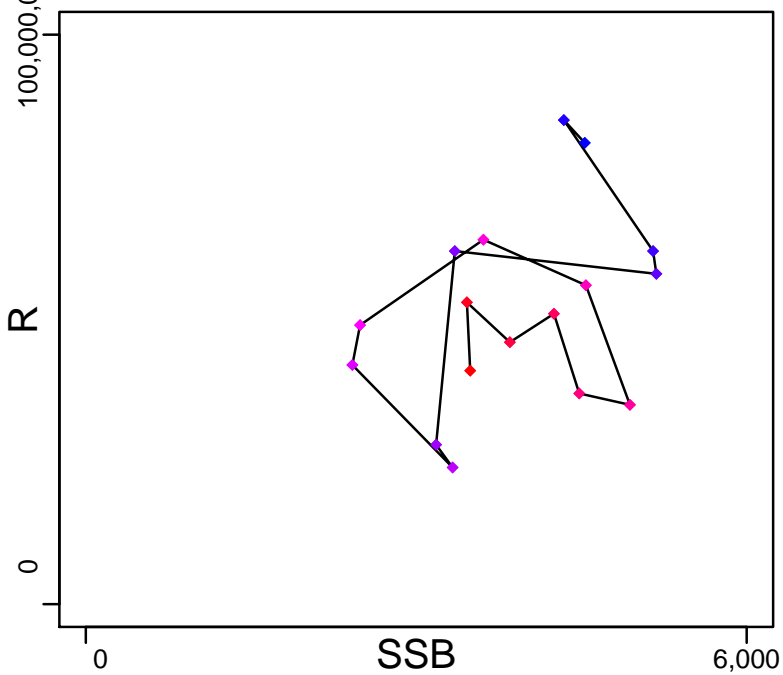
Kobe MSYpref (1966–2013–JPNIMP2016)



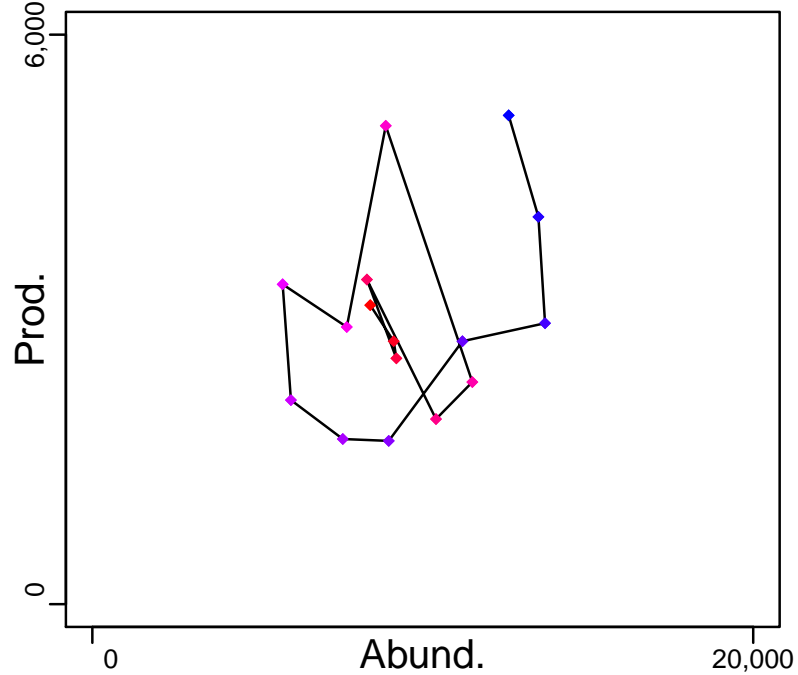
Kobe MGTpref (1966–2013–JPNIMP2016)



Spawner Recruit (1966–2013–JPNIMP2016)



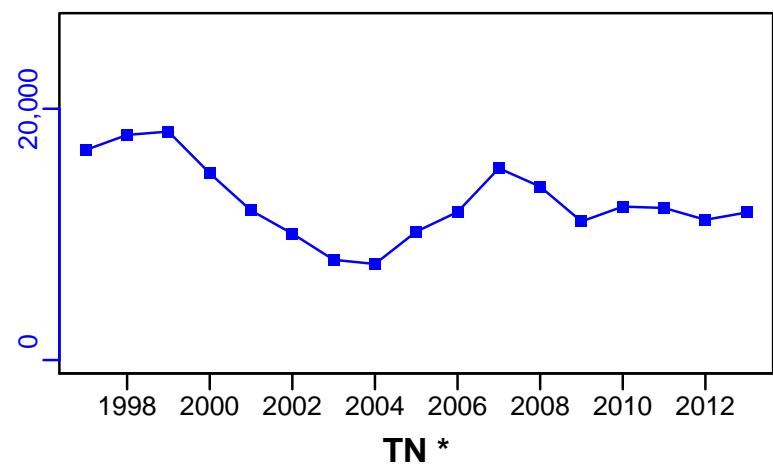
Production (1966–2013–JPNIMP2016)



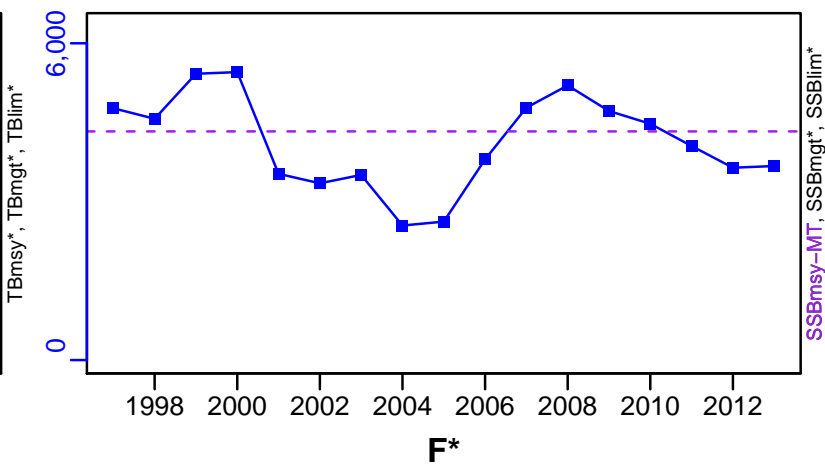
◆ Start Year ◆ End Year * No Data

Pointhead flounder Sea of Japan [PHFLOUNSOJ]

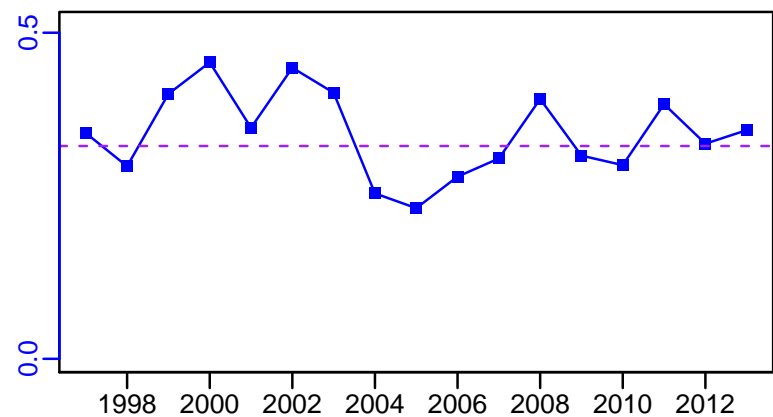
TB-MT (1966–2013–JPNIMP2016)



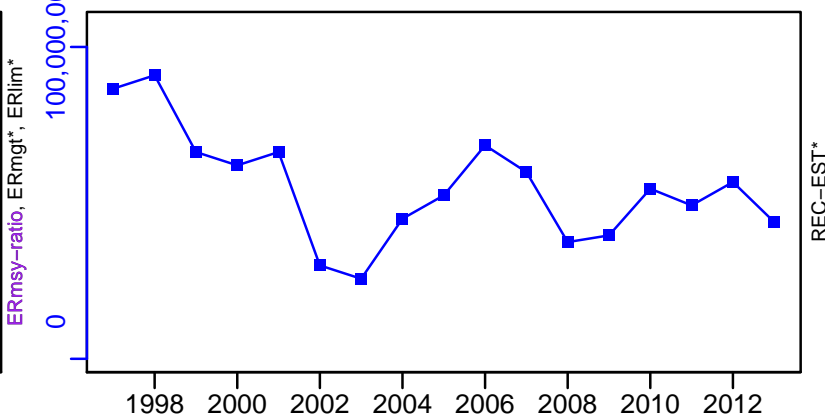
SSB-MT (1966–2013–JPNIMP2016)



ER-calc-ratio (1966–2013–JPNIMP2016)

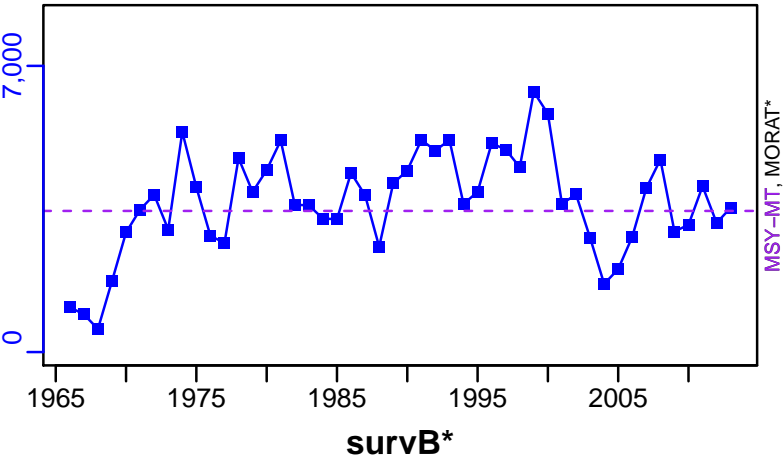


R-E00 (1966–2013–JPNIMP2016)



Pointhead flounder Sea of Japan [PHFLOUNSOJ]

TC-MT, TL*, RecC* (1966-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese sardine Pacific Coast of Japan [PILCHPJPN]

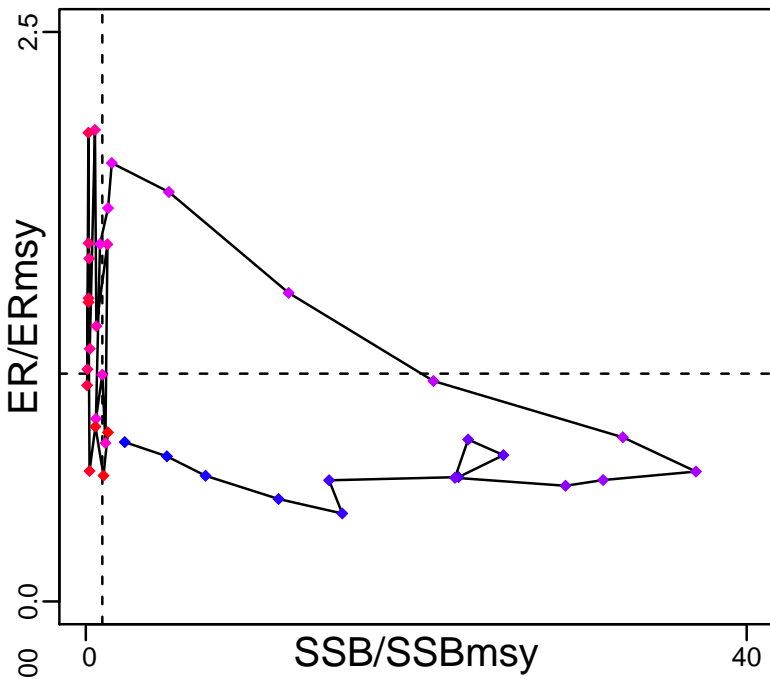
Metadata	
Scientific Name	Sardinops melanostictus
Current Assess ID	FAJ-PILCHPJPN-1975-2013-JPNIMP2016
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2009	12,342,296
SSBmsy	SSBmsy-MT	2013	361,622
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.28
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	175,942
M	M-1/yr	2013	0.4
TBlim	TBlim-MT	2009	221
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

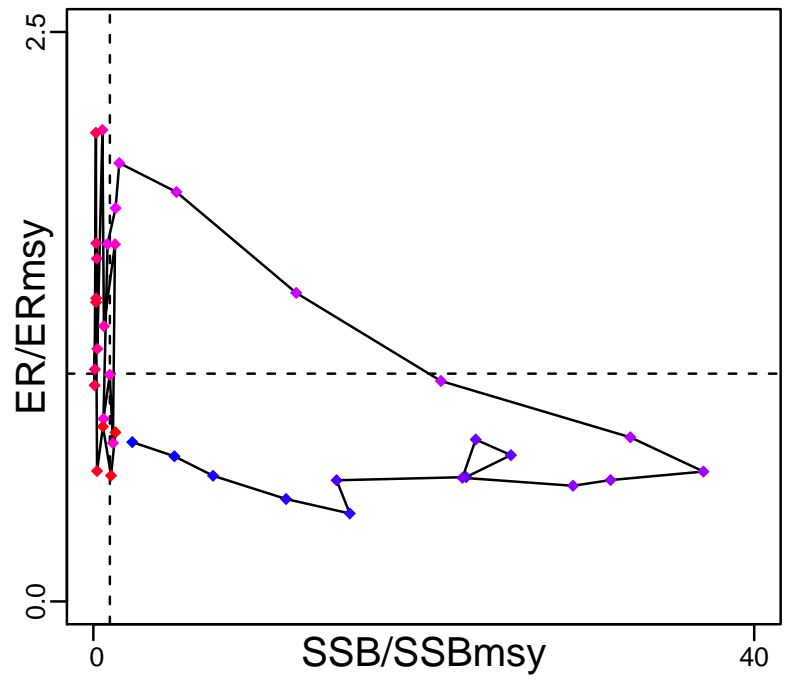
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	714,000	-	0
SSB	SSB-MT	2013	484,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	5.98×10^9	-	0
F	F-1/yr	2009	0	Both	0 to 4
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	148,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2009	0.02		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.34		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.74		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese sardine Pacific Coast of Japan [PILCHPJPN]

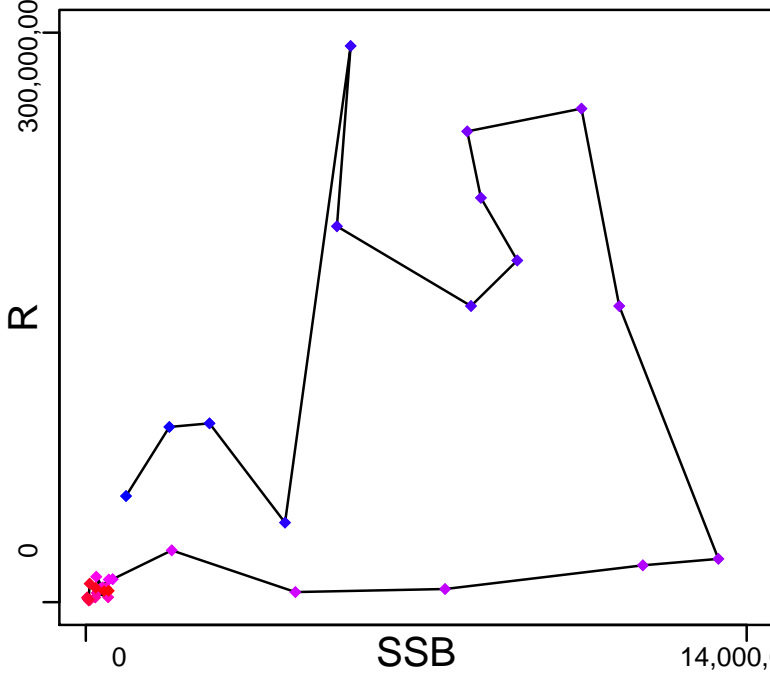
Kobe MSYpref (1975–2013–JPNIMP2016)



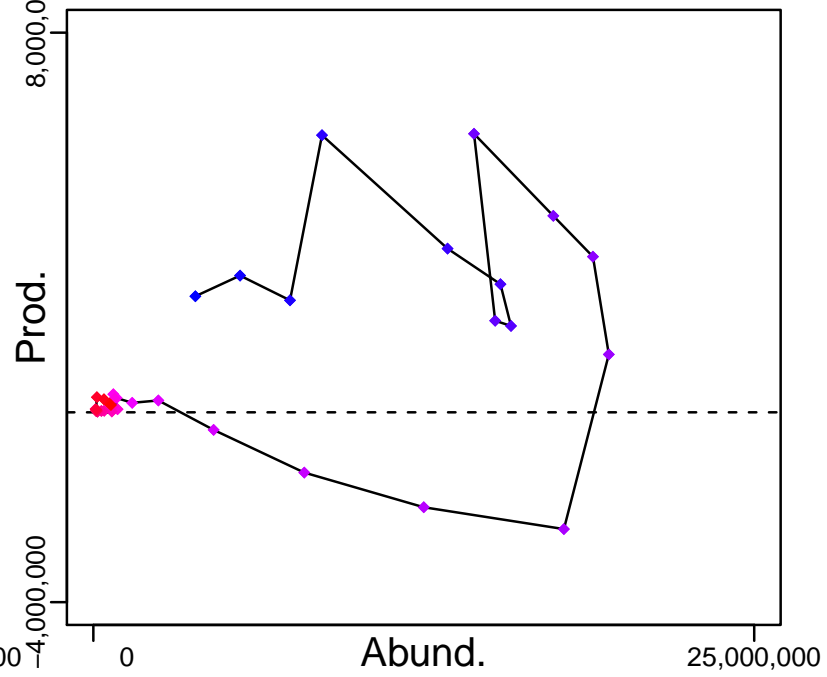
Kobe MGTpref (1975–2013–JPNIMP2016)



Spawner Recruit (1975–2013–JPNIMP2016)



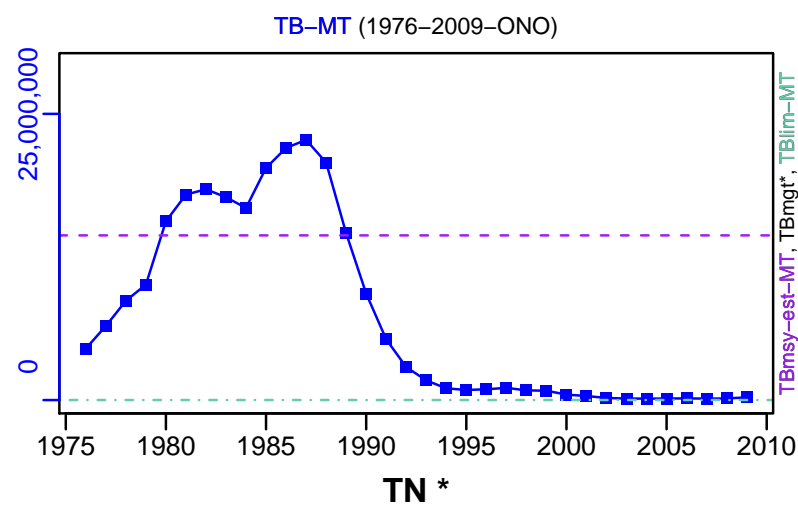
Production (1975–2013–JPNIMP2016)



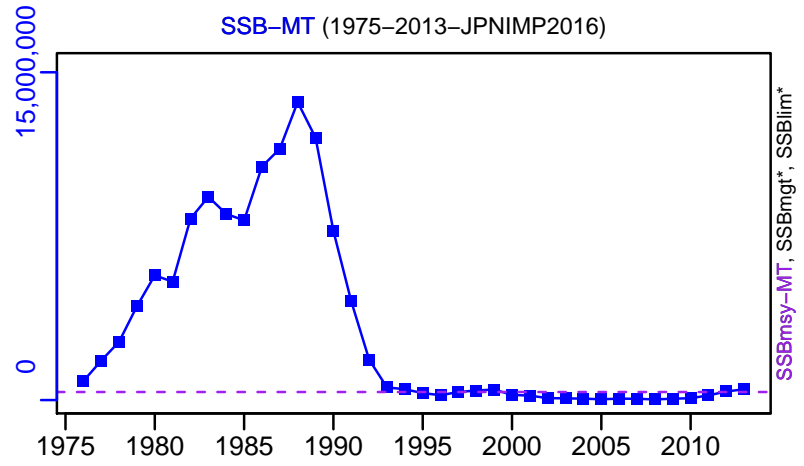
◆ Start Year ◆ End Year * No Data

Japanese sardine Pacific Coast of Japan [PILCHPJPN]

TB-MT (1976-2009-ONO)



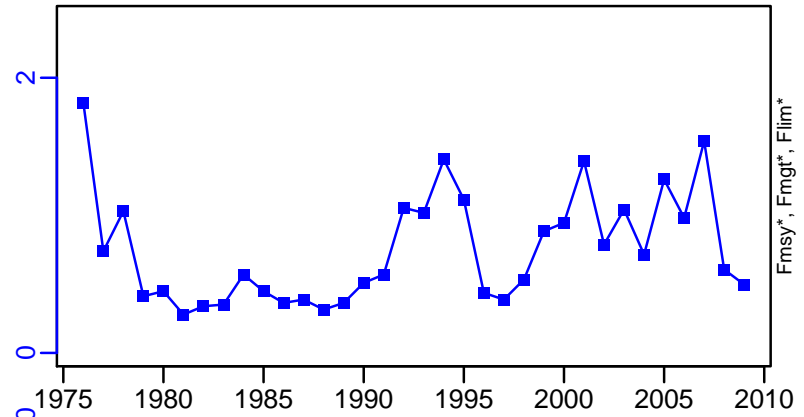
SSB-MT (1975-2013-JPNIMP2016)



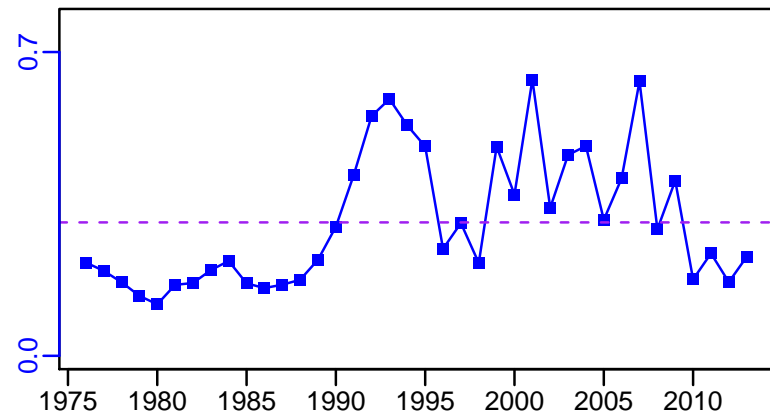
TN *



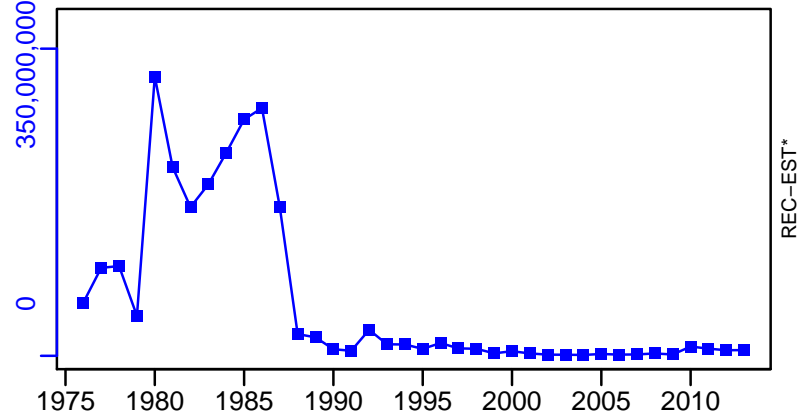
F-1/yr (1976-2009-ONO)



ER-calc-ratio (1975-2013-JPNIMP2016)



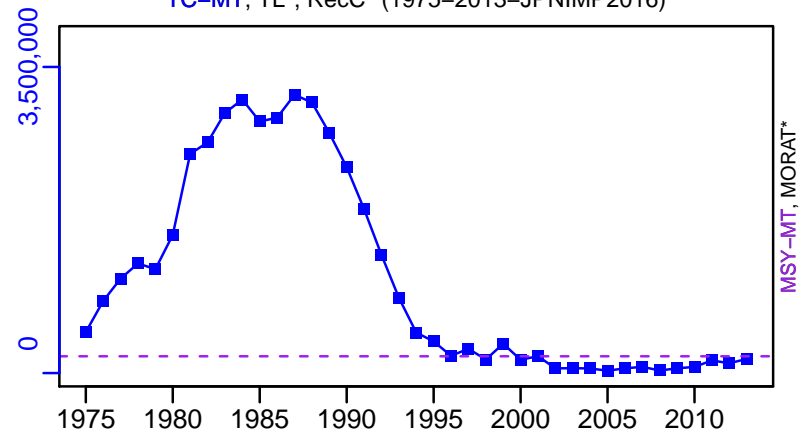
R-E00 (1975-2013-JPNIMP2016)



Japanese sardine Pacific Coast of Japan [PILCHPJPN]

TC-MT, TL*, RecC* (1975-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

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

Japanese sardine Tsushima Strait [PILCHTSST]

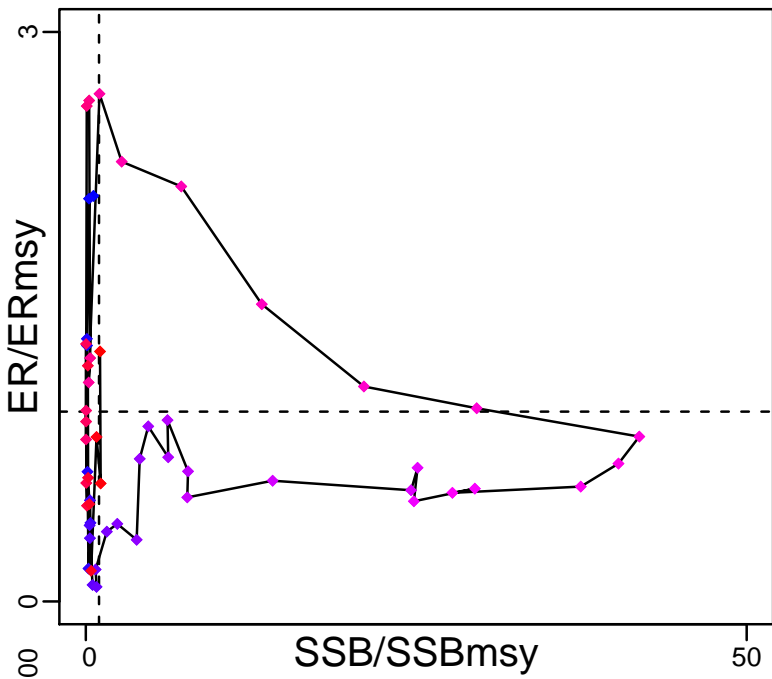
Metadata	
Scientific Name	Sardinops melanostictus
Current Assess ID	FAJ-PILCHTSST-1960-2013-JPNIMP2016
Area	Tsushima Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	6,605,119
SSBmsy	SSBmsy-MT	2013	122,056
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.26
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	53,012
M	M-1/yr	2013	0.4
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	10,000
Flim	-	-	-
ERlim	-	-	-

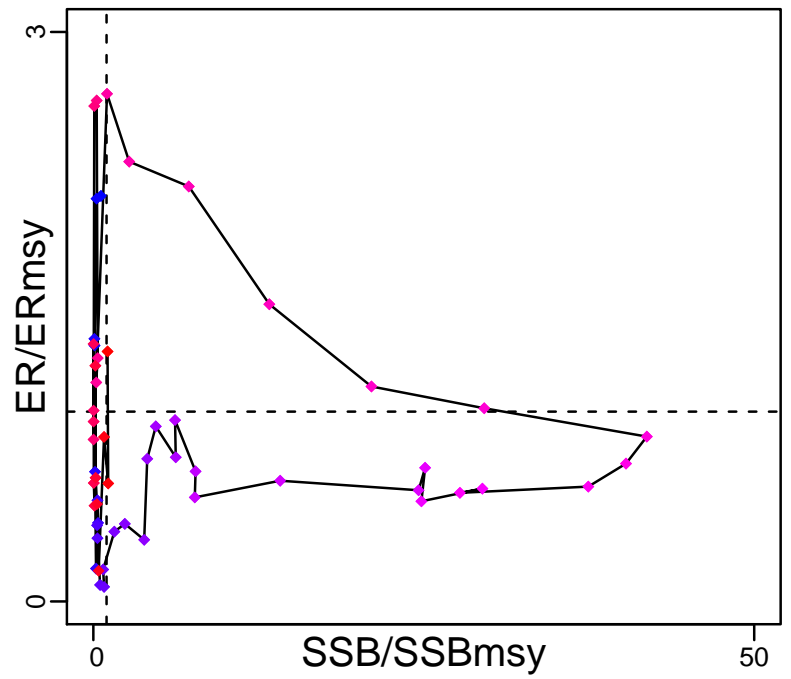
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	252,000	-	0
SSB	SSB-MT	2013	131,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	5.17×10^9	-	0.00E+00
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	86,300		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.01		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.07		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.32		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese sardine Tsushima Strait [PILCHTSST]

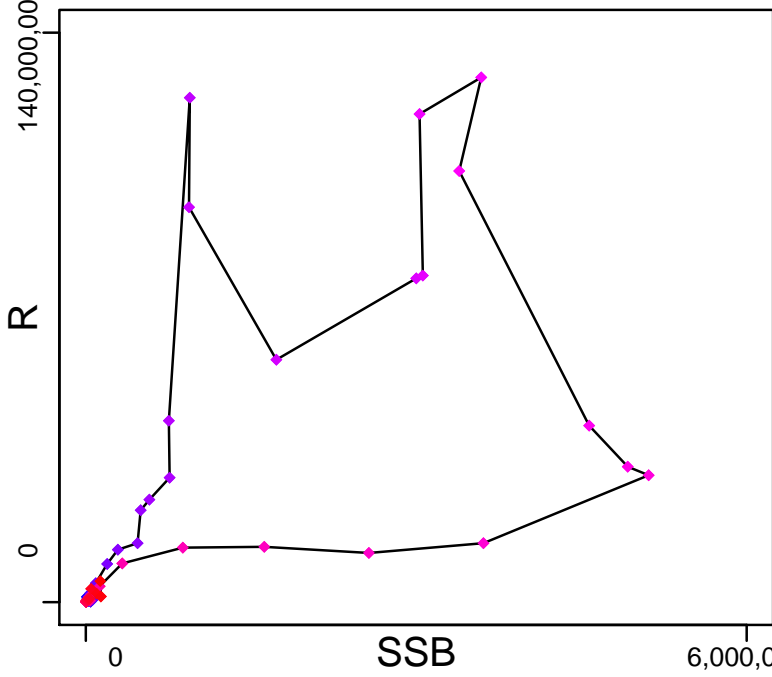
Kobe MSYpref (1960–2013–JPNIMP2016)



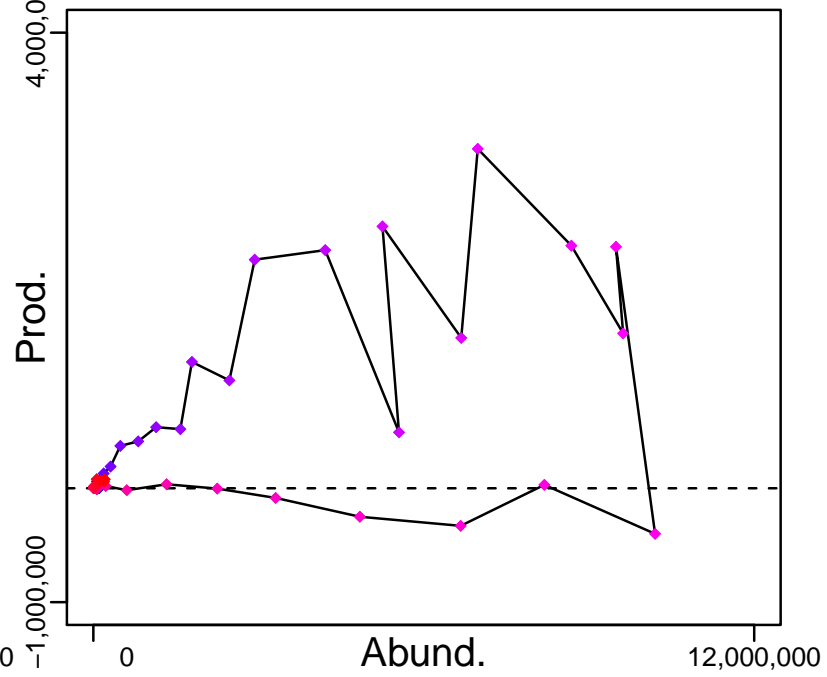
Kobe MGTpref (1960–2013–JPNIMP2016)



Spawner Recruit (1960–2013–JPNIMP2016)

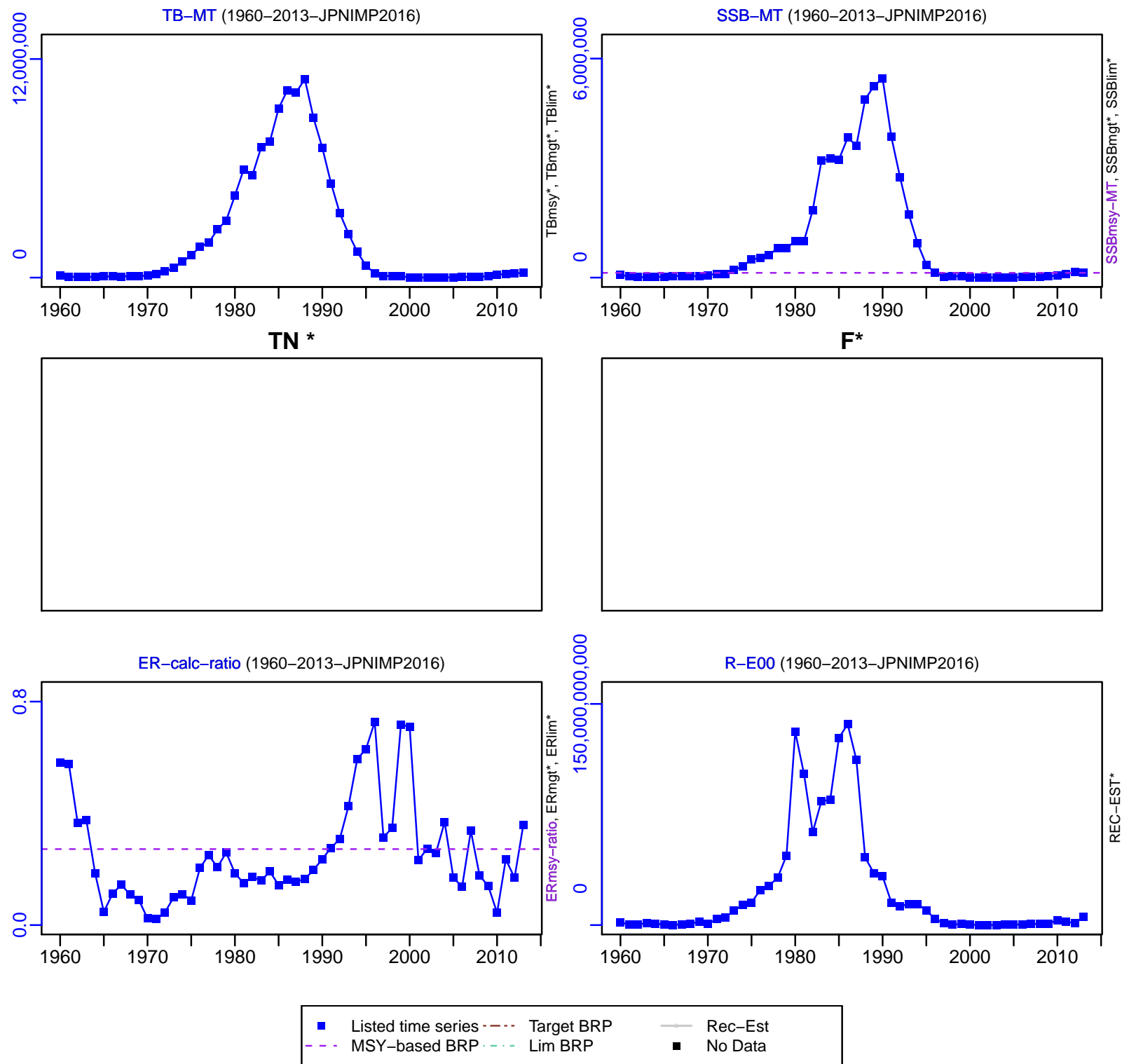


Production (1960–2013–JPNIMP2016)



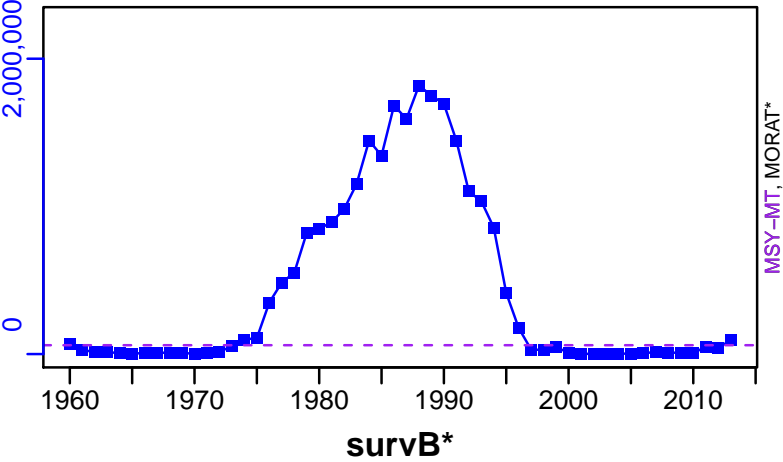
◆ Start Year ◆ End Year * No Data

Japanese sardine Tsushima Strait [PILCHTSST]



Japanese sardine Tsushima Strait [PILCHTSST]

TC-MT, TL*, RecC* (1960-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*

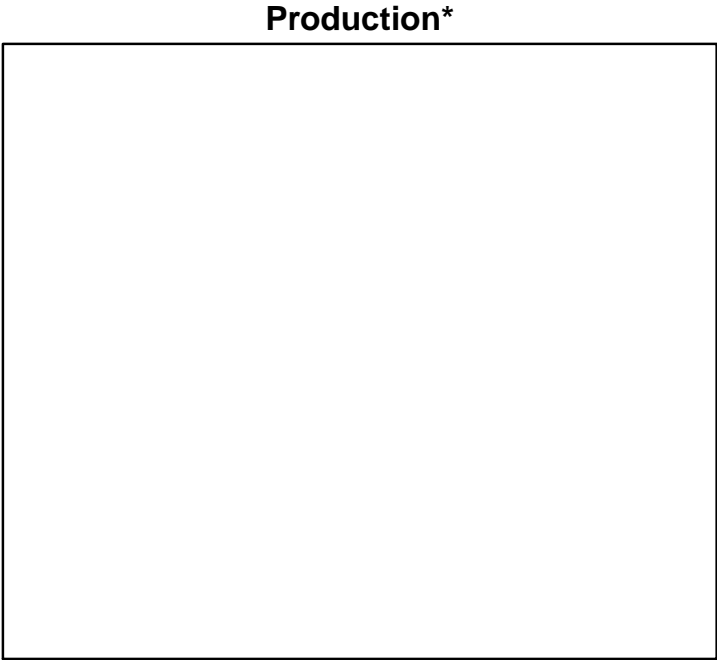
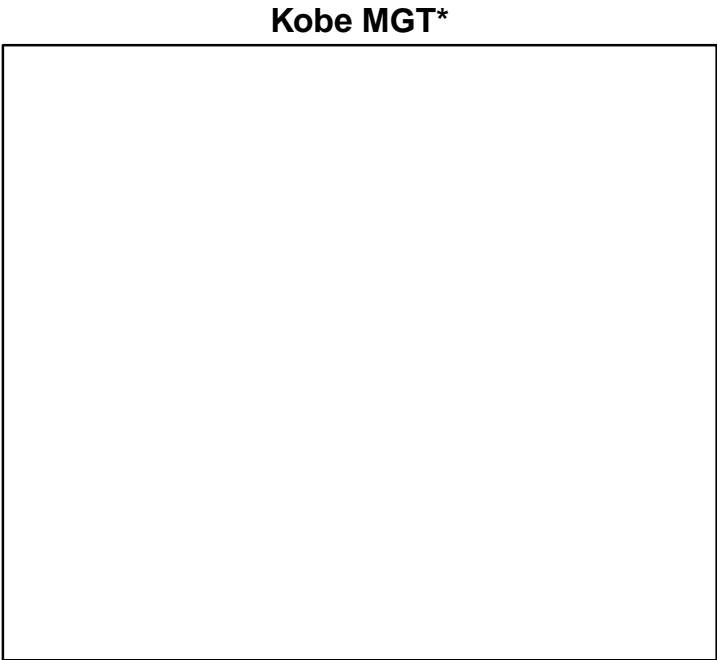
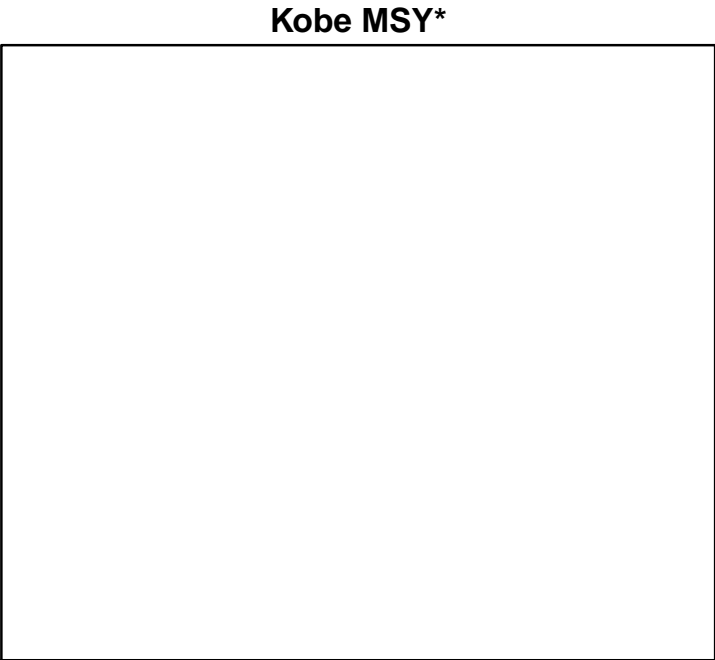


Pacific sandlance Ise and Mikawa Bay [PSANDLIMKB]

Metadata	
Scientific Name	Ammodytes personatus
Current Assess ID	FAJ-PSANDLIMKB-1979-2014-JPNIMP2016
Area	Ise and Mikawa Bay
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
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	R-E00	2014	2.92×10^{10}	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	13,100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Pacific sandlance Ise and Mikawa Bay [PSANDLIMKB]

TB*



SSB*



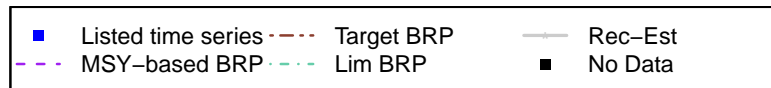
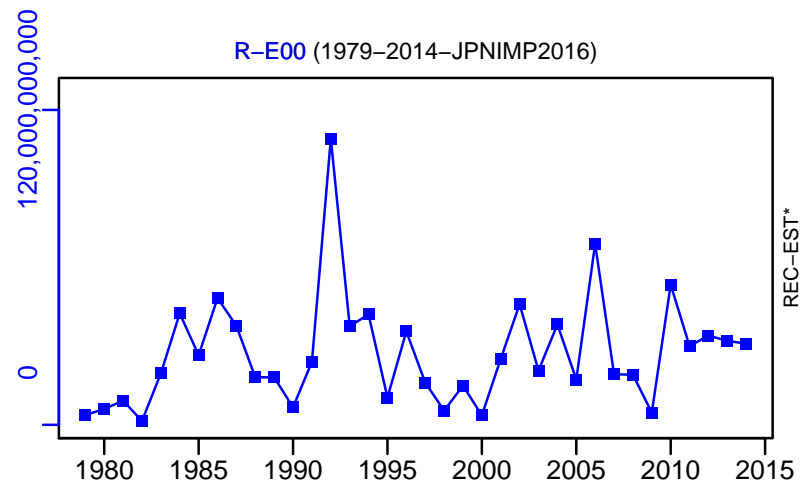
TN *



F*



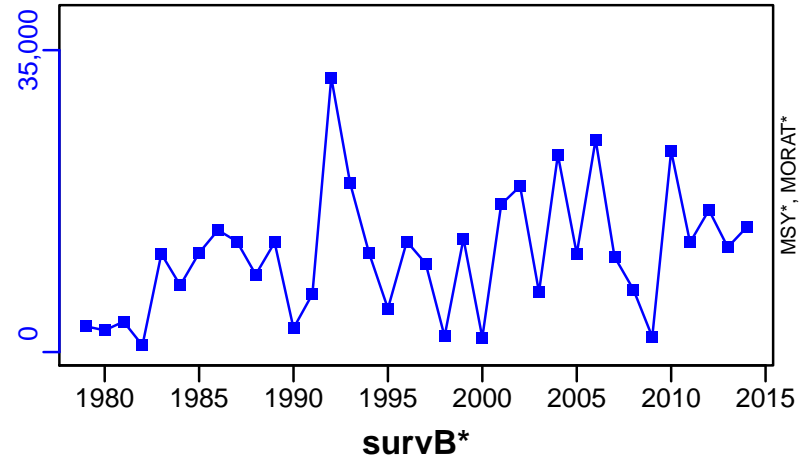
ER*



Pacific sandlance Ise and Mikawa Bay [PSANDLIMKB]

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

TAC*, Cpair*, Cadv*



EFFORT*



Pacific sand lance Souya Strait [PSLANCESYS]

Metadata	
Scientific Name	Ammodytes hexapterus
Current Assess ID	FAJ-PSLANCESYS-1980-2013-JPNIMP2016
Area	Souya Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	7020		
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

Pacific sand lance Souya Strait [PSLANCESYS]

TB*



SSB*



TN *



F*



ER*

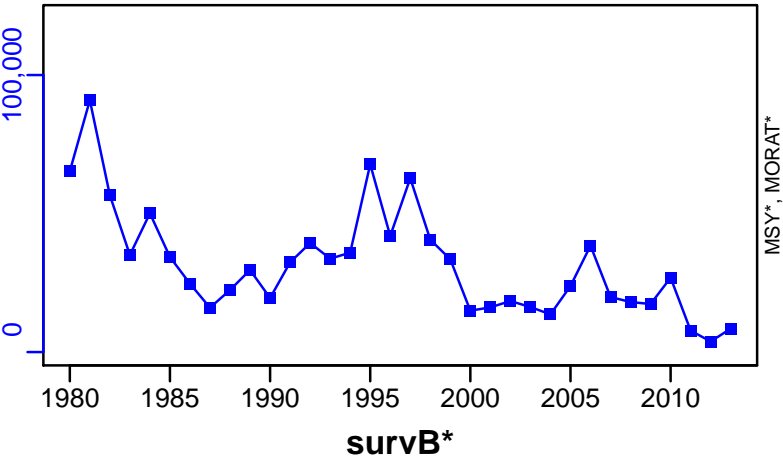


Recruits*



Pacific sand lance Souya Strait [PSLANCESYS]

TC-MT, TL*, RecC* (1980-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Red seabream East China Sea [RBRMECS]

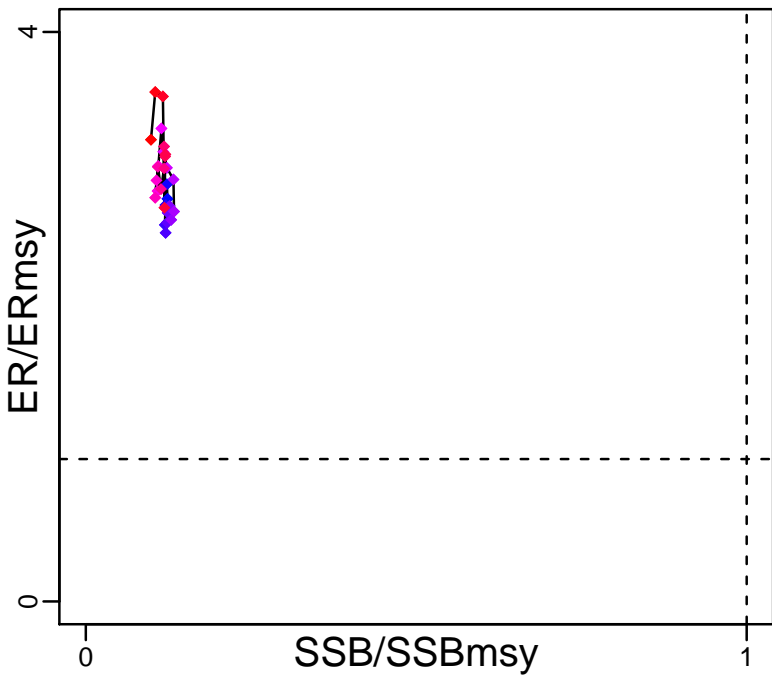
Metadata	
Scientific Name	Pagrus major
Current Assess ID	FAJ-RBRMECS-1969-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	87,132
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.12
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	11,626
M	M-1/yr	2013	0.12
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	9900
Flim	-	-	-
ERlim	-	-	-

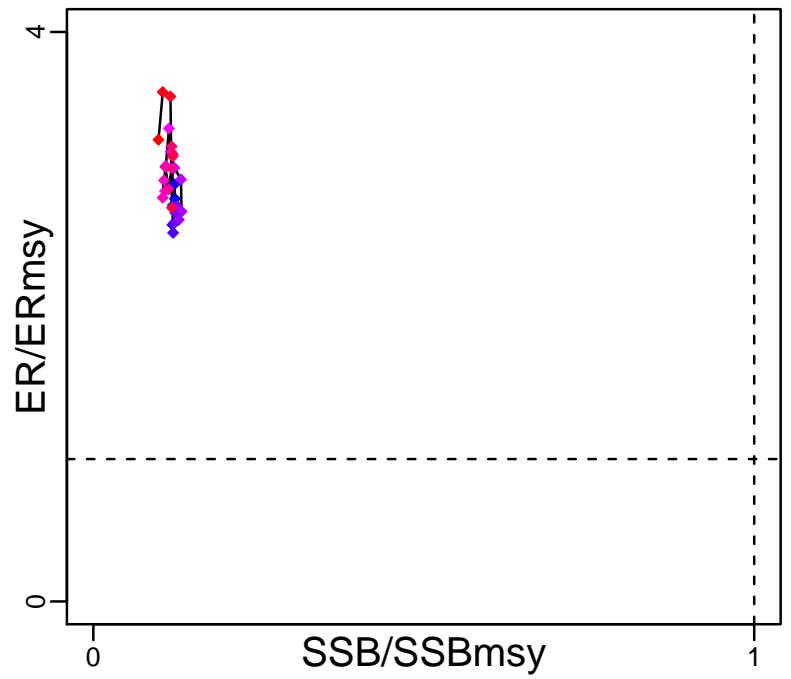
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	14,200	-	1
SSB	SSB-MT	2013	8590	Both	3
TN	-	-	-	-	-
R	R-E00	2013	10,800,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	5520		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.1		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	3.24		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red seabream East China Sea [RBRMECS]

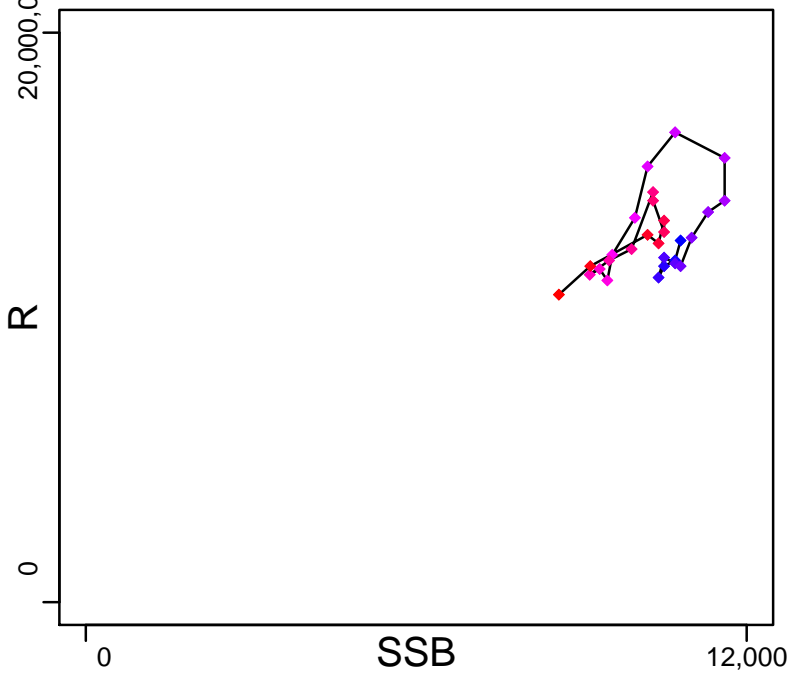
Kobe MSYpref (1969–2013–JPNIMP2016)



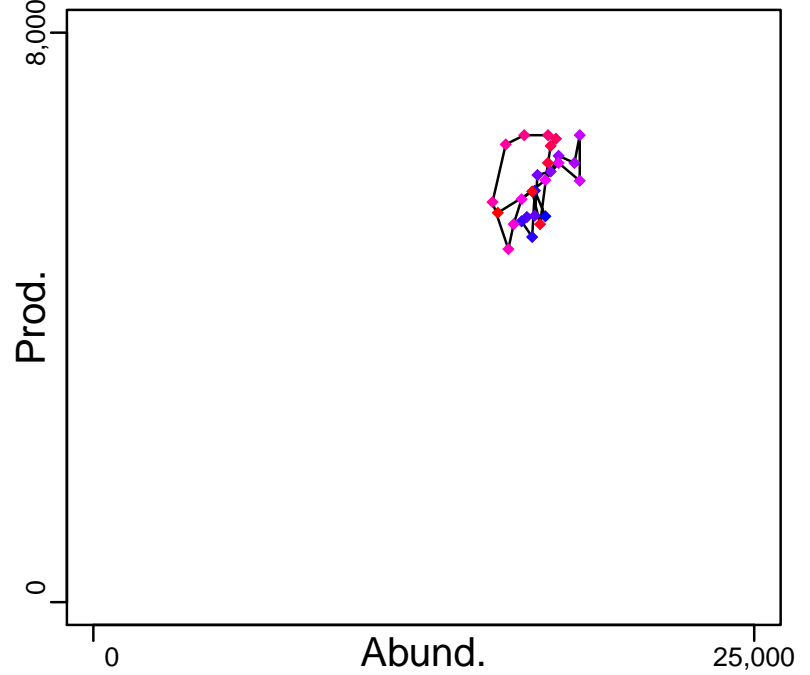
Kobe MGTpref (1969–2013–JPNIMP2016)



Spawner Recruit (1969–2013–JPNIMP2016)



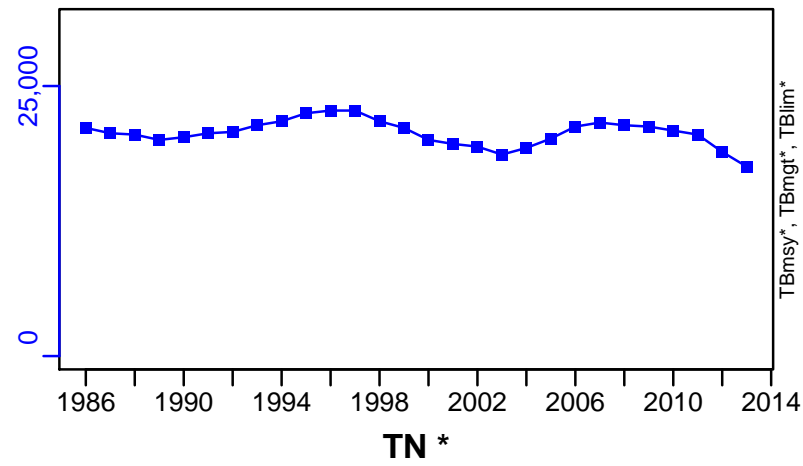
Production (1969–2013–JPNIMP2016)



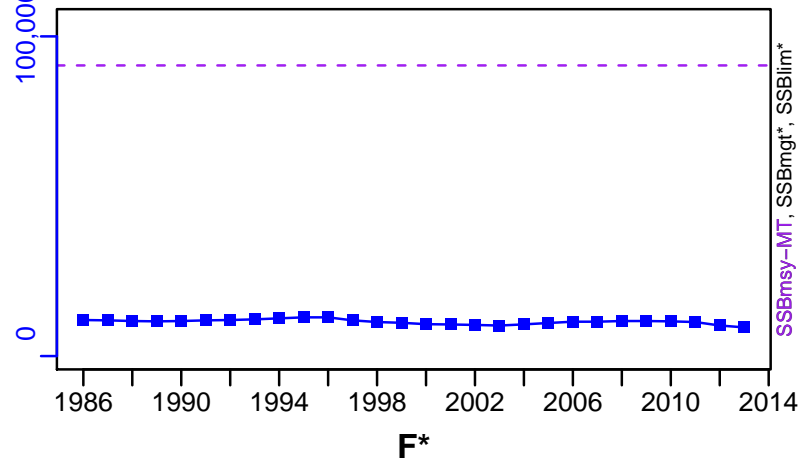
◆ Start Year ◆ End Year * No Data

Red seabream East China Sea [RBRMECS]

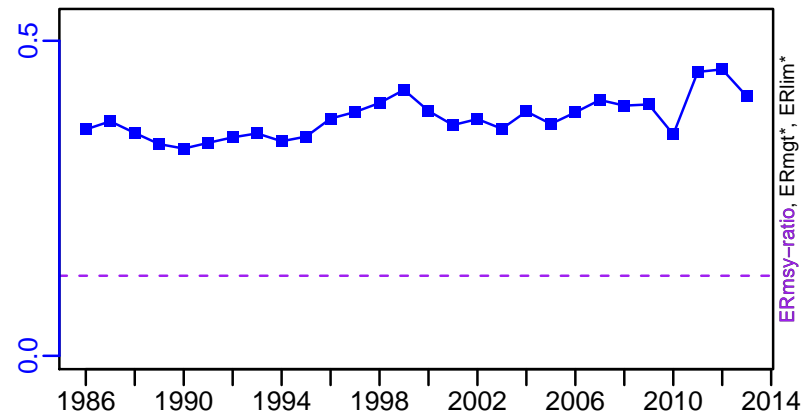
TB-MT (1969–2013–JPNIMP2016)



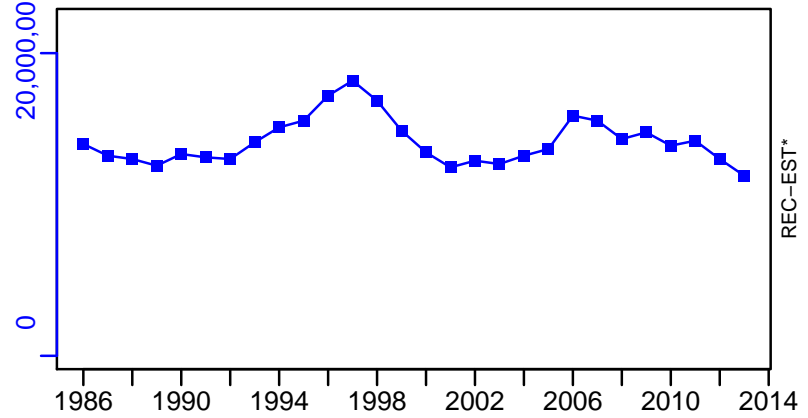
SSB-MT (1969–2013–JPNIMP2016)



ER-calc-ratio (1969–2013–JPNIMP2016)



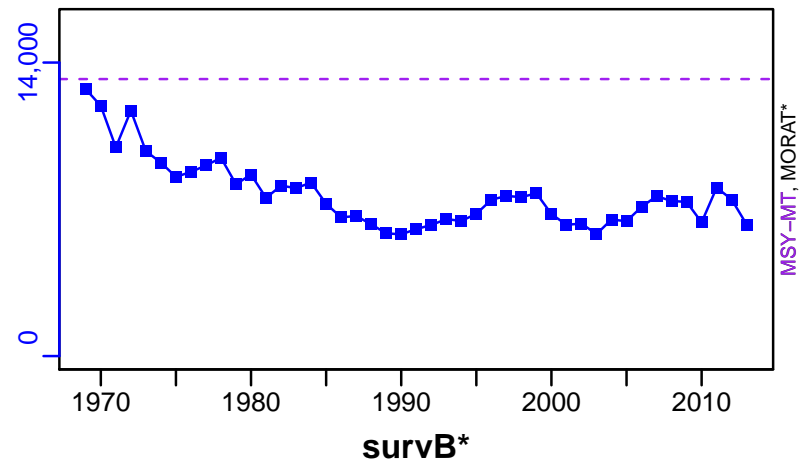
R-E00 (1969–2013–JPNIMP2016)



Red seabream East China Sea [RBRMECS]

TC-MT, TL*, RecC* (1969–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Red seabream Inland Sea of Japan (East) [RBRMSETOE]

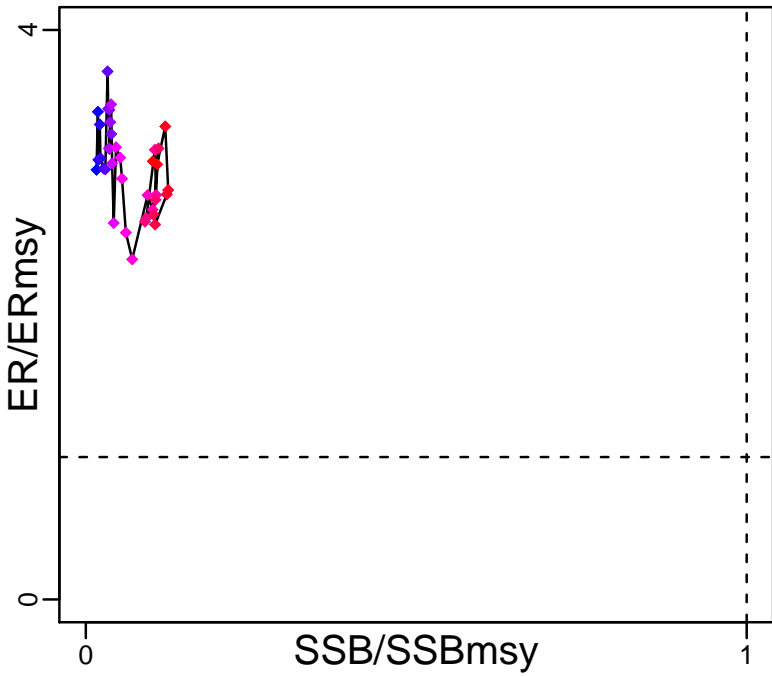
Metadata	
Scientific Name	Pagrus major
Current Assess ID	FAJ-RBRMSETOE-1977-2013-JPNIMP2016
Area	Inland Sea of Japan (East)
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	16,552
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.14
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	3106
M	M-1/yr	2013	0.24
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	304
Flim	-	-	-
ERlim	-	-	-

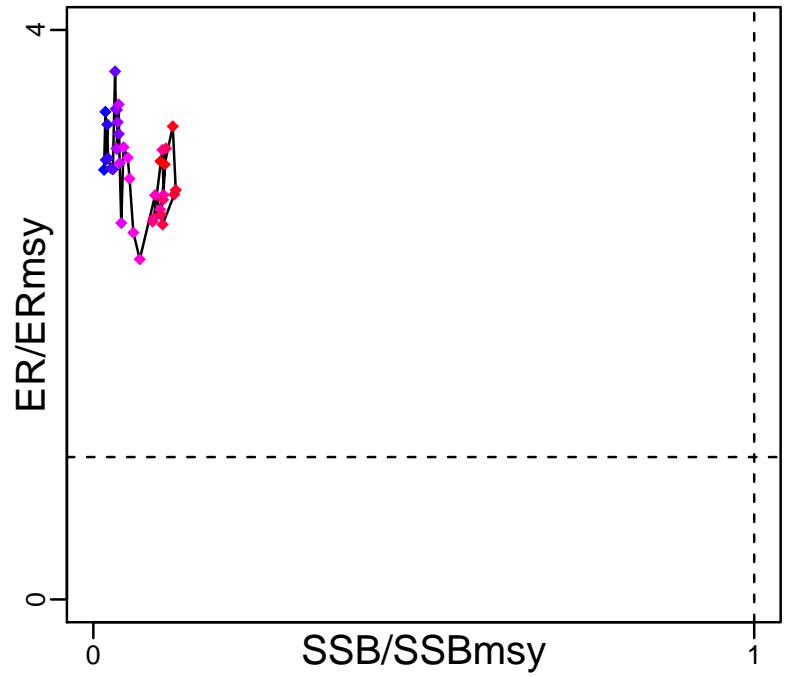
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	4030	-	0
SSB	SSB-MT	2013	1680	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,730,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	1800		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.1		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	3.08		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red seabream Inland Sea of Japan (East) [RBRMSETOE]

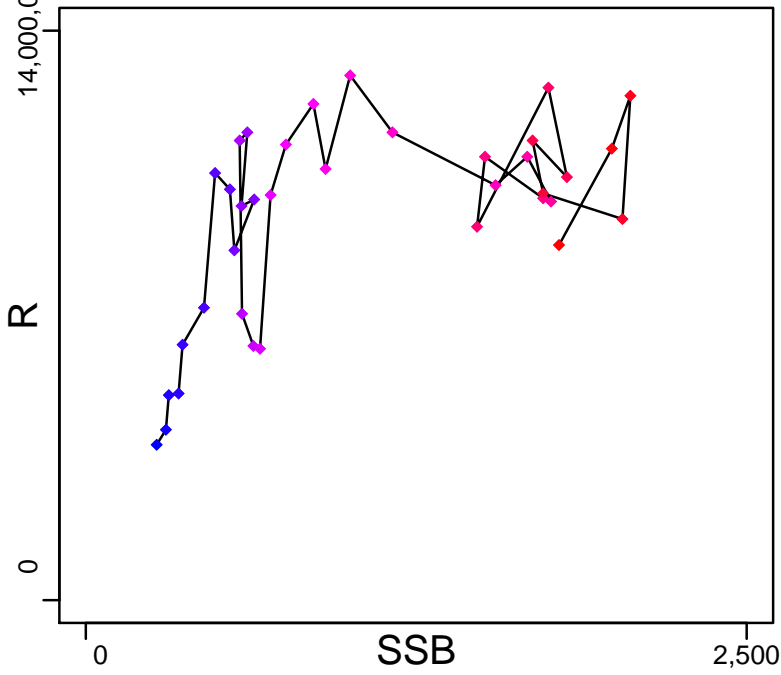
Kobe MSYpref (1977–2013–JPNIMP2016)



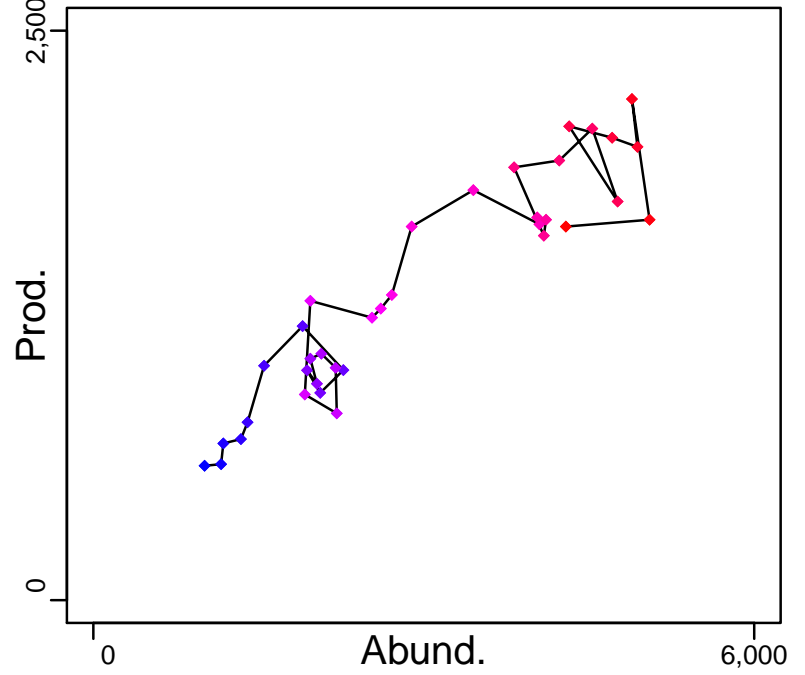
Kobe MGTpref (1977–2013–JPNIMP2016)



Spawner Recruit (1977–2013–JPNIMP2016)



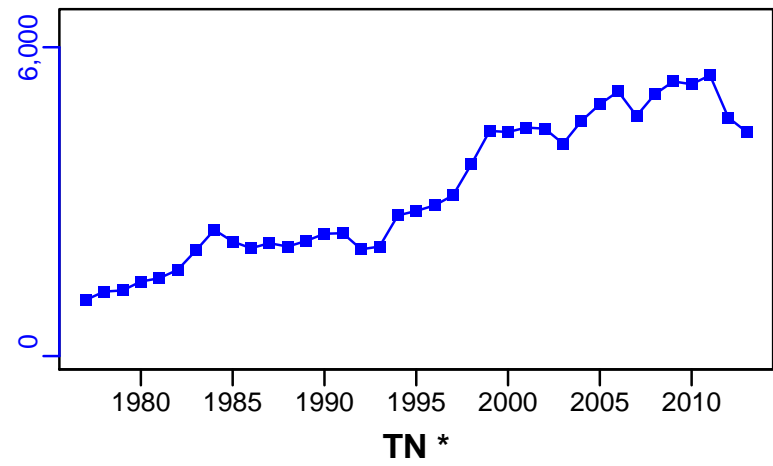
Production (1977–2013–JPNIMP2016)



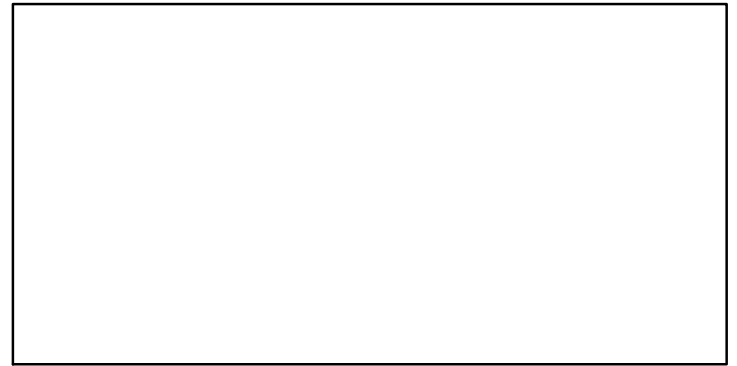
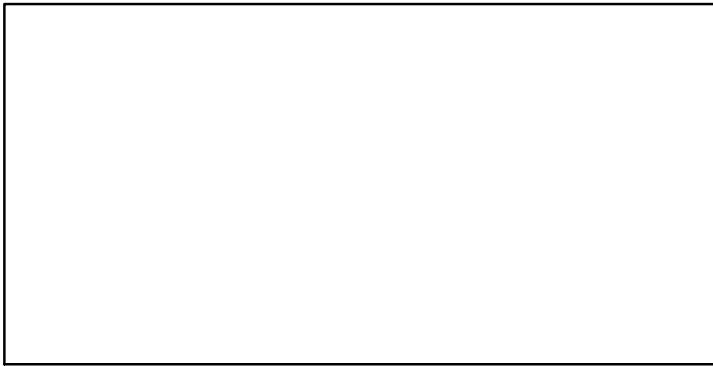
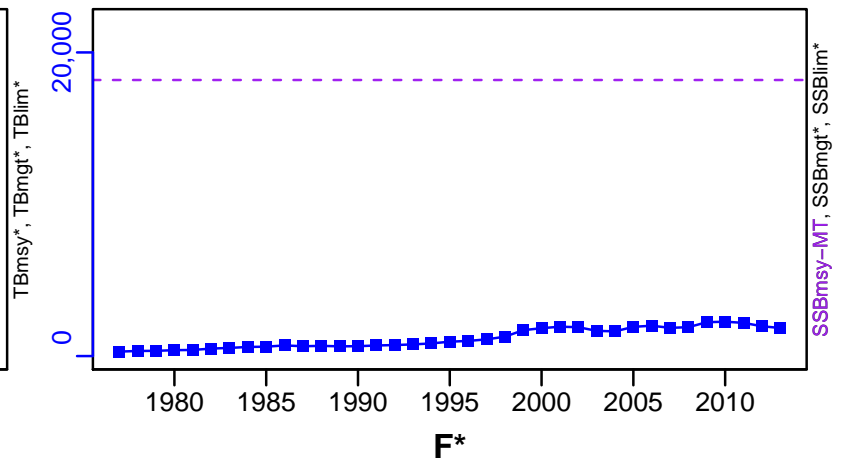
◆ Start Year ◆ End Year * No Data

Red seabream Inland Sea of Japan (East) [RBRMSETOE]

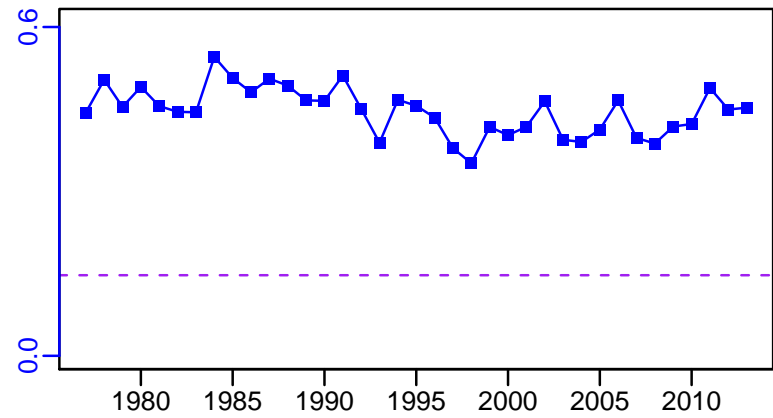
TB-MT (1977-2013-JPNIMP2016)



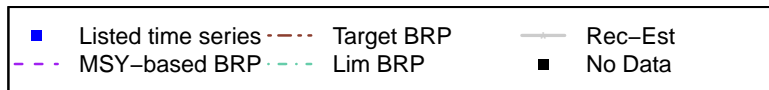
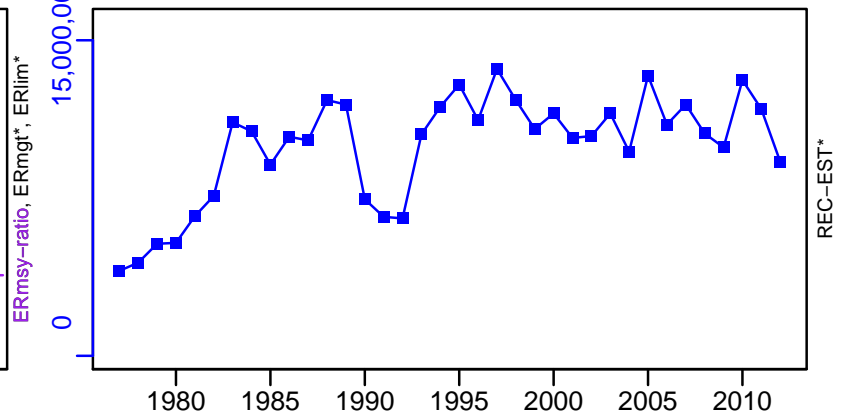
SSB-MT (1977-2013-JPNIMP2016)



ER-calc-ratio (1977-2013-JPNIMP2016)

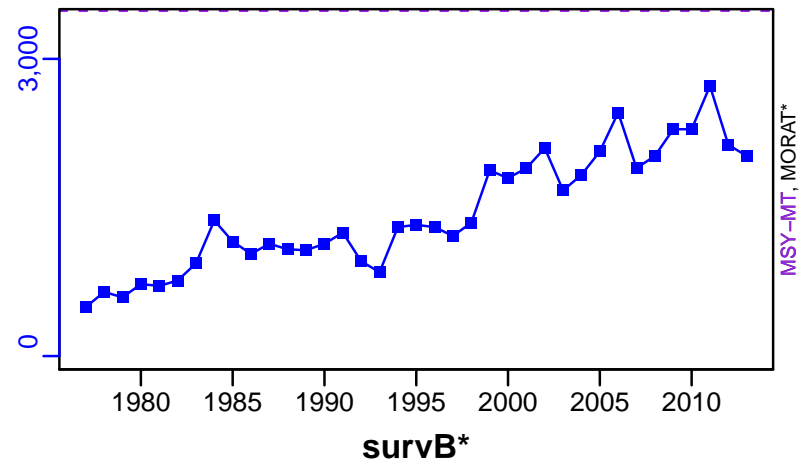


R-E00 (1977-2013-JPNIMP2016)



Red seabream Inland Sea of Japan (East) [RBRMSETOE]

TC-MT, TL*, RecC* (1977-2013-JPNIMP2016)



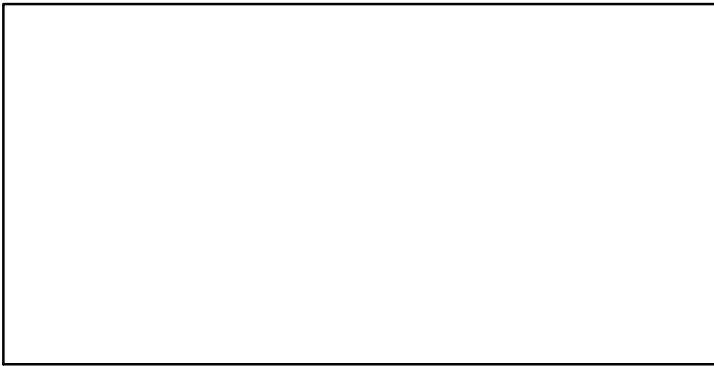
TAC*, Cpair*, Cadv*



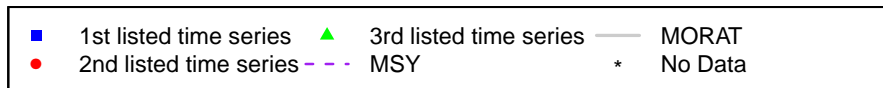
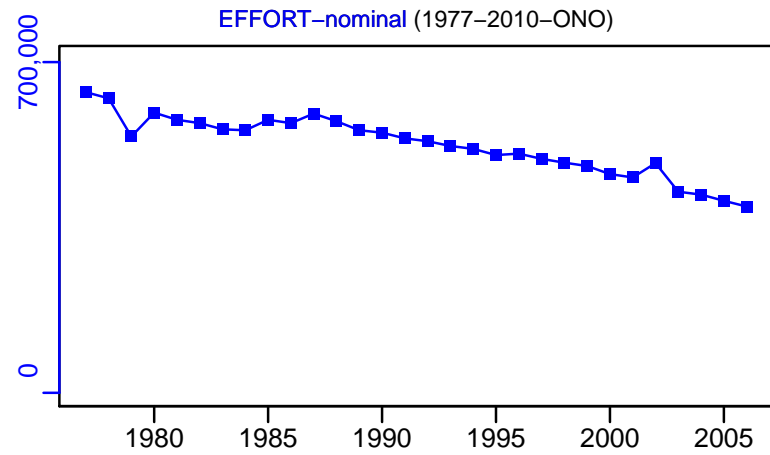
CPUE*



survB*



EFFORT-nominal (1977-2010-ONO)



Red seabream Inland Sea of Japan (West) [RBRMSETOW]

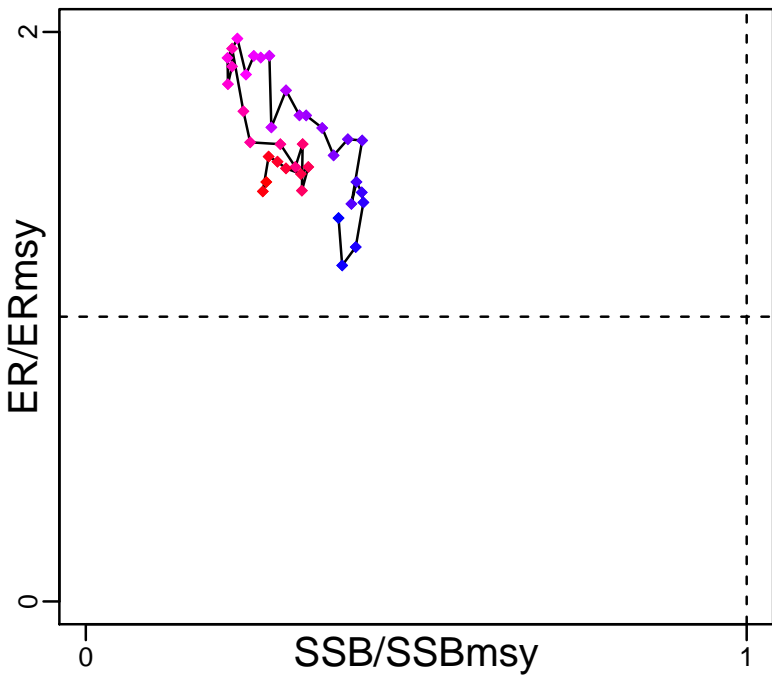
Metadata	
Scientific Name	Pagrus major
Current Assess ID	FAJ-RBRMSETOW-1977-2013-JPNIMP2016
Area	Inland Sea of Japan (West)
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	10,901
SSBmsy	SSBmsy-MT	2013	18,103
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.17
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	4173
M	M-1/yr	2013	0.24
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	4212
Flim	-	-	-
ERlim	-	-	-

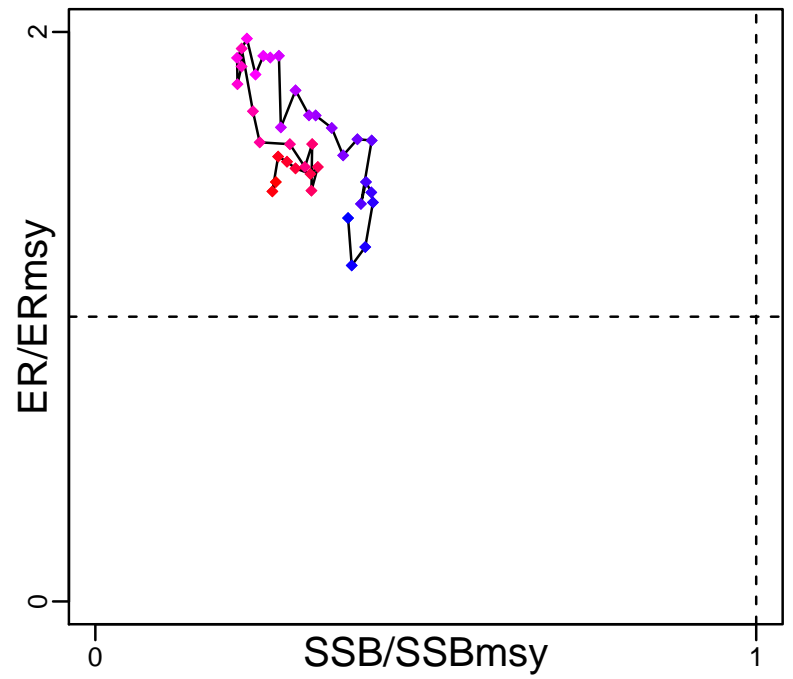
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	8620	-	0
SSB	SSB-MT	2013	4940	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,300,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	2200		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.79		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.27		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.47		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red seabream Inland Sea of Japan (West) [RBRMSETOW]

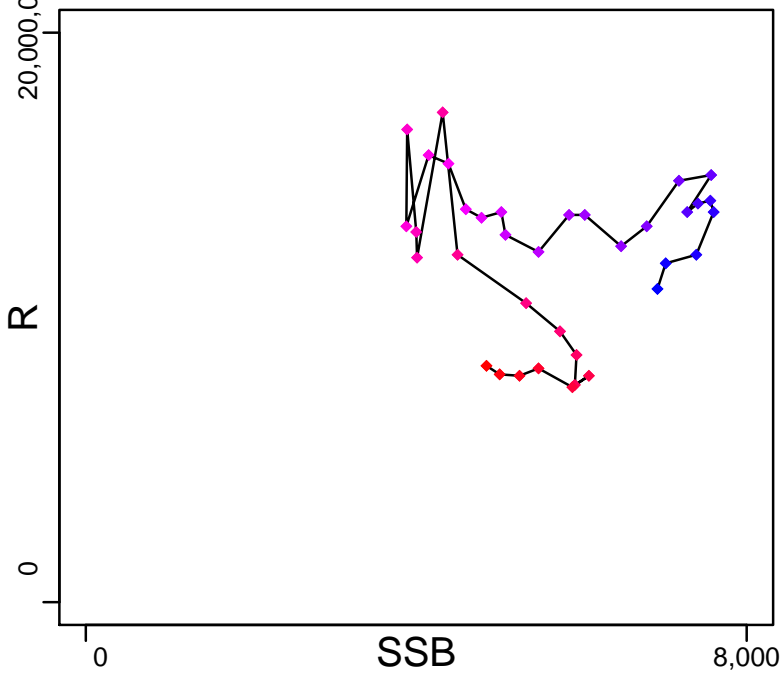
Kobe MSYpref (1977–2013–JPNIMP2016)



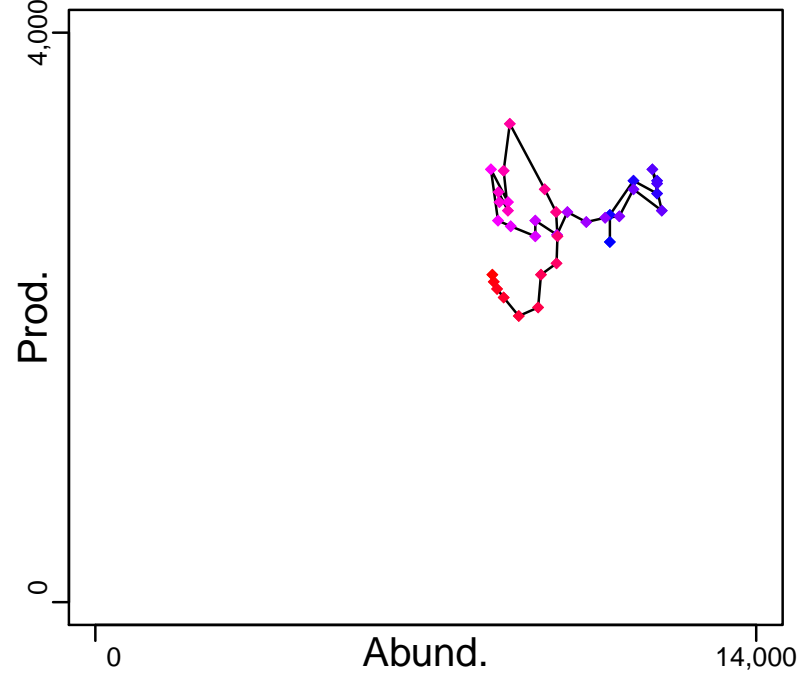
Kobe MGTpref (1977–2013–JPNIMP2016)



Spawner Recruit (1977–2013–JPNIMP2016)



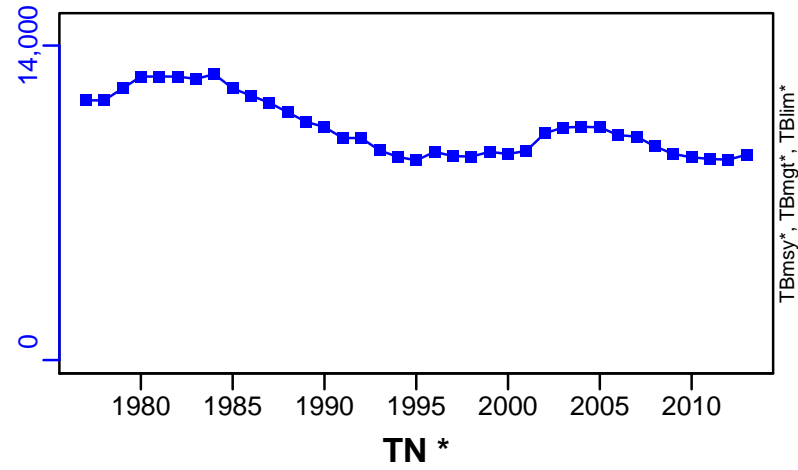
Production (1977–2013–JPNIMP2016)



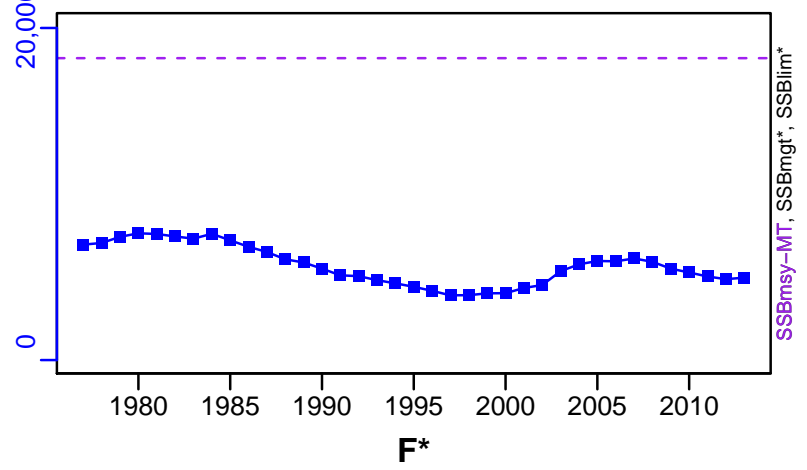
◆ Start Year ◆ End Year * No Data

Red seabream Inland Sea of Japan (West) [RBRMSETOW]

TB-MT (1977-2013-JPNIMP2016)

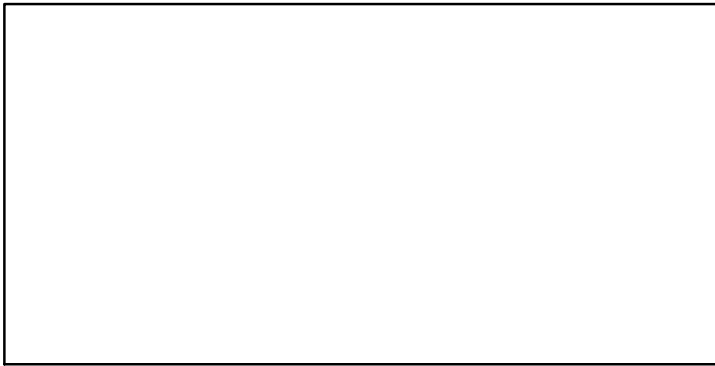


SSB-MT (1977-2013-JPNIMP2016)

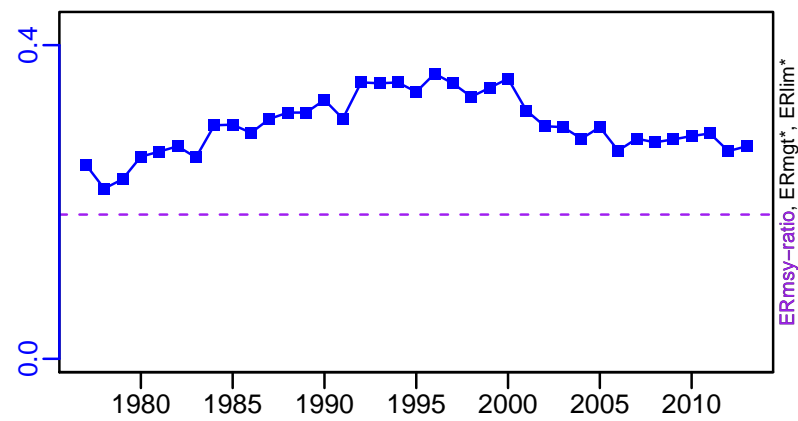


TN *

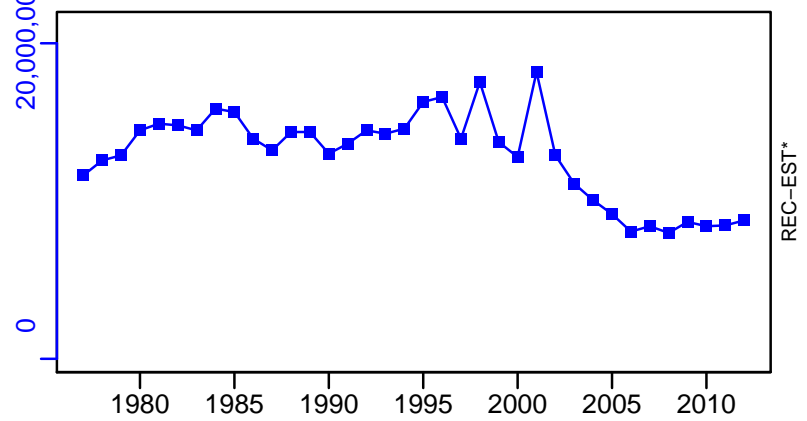
F*



ER-calc-ratio (1977-2013-JPNIMP2016)



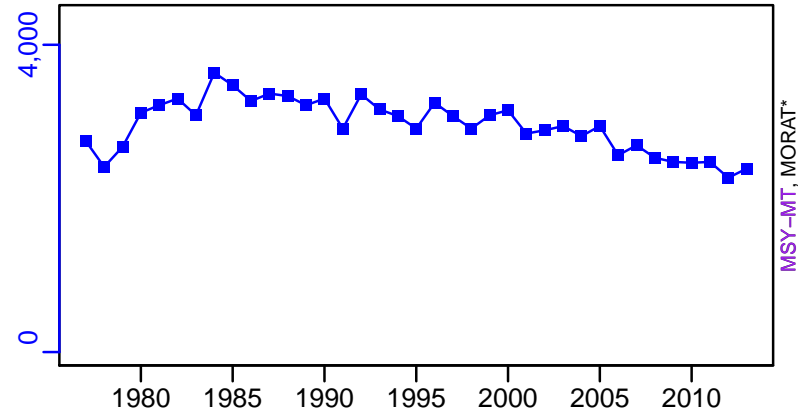
R-E00 (1977-2013-JPNIMP2016)



Red seabream Inland Sea of Japan (West) [RBRMSETOW]

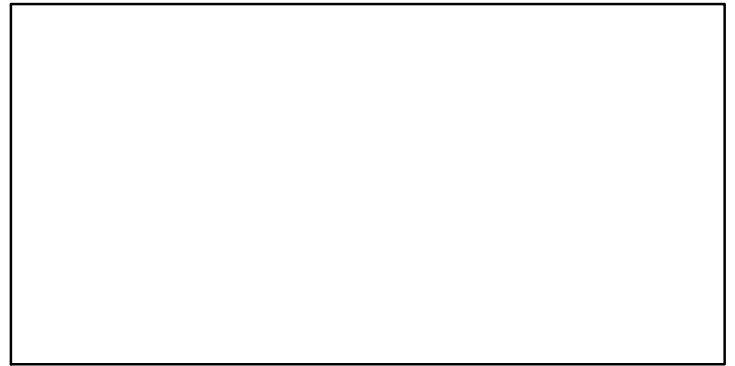
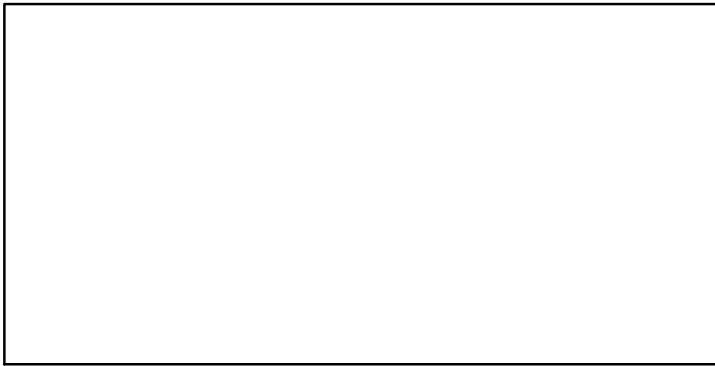
TC-MT, TL*, RecC* (1977-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*

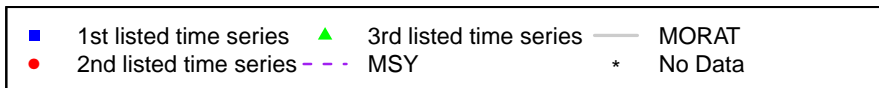
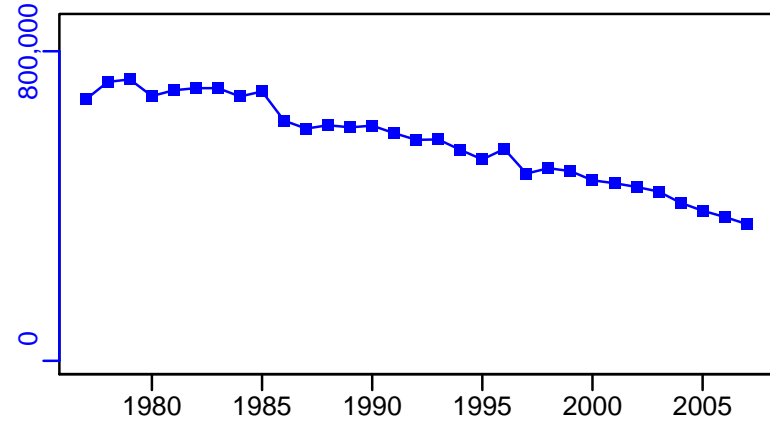


survB*

CPUE*



EFFORT-nominal (1977-2010-ONO)



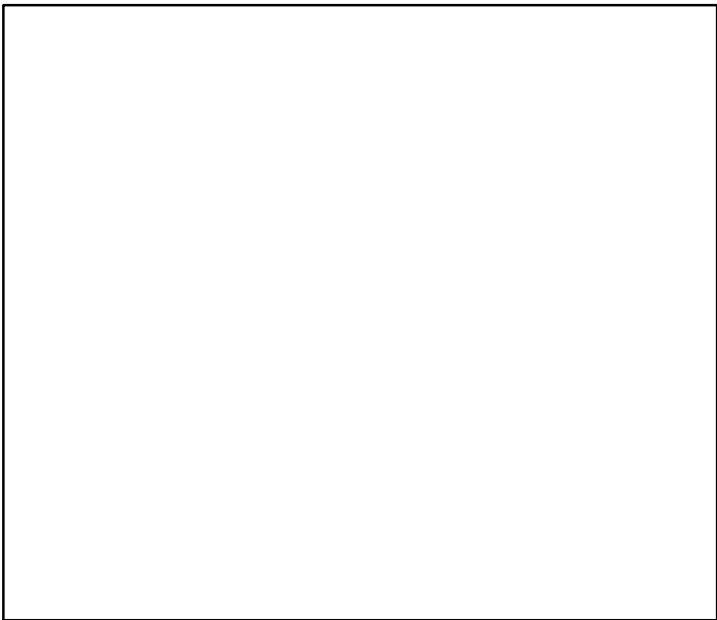
Round herring Pacific Ocean [RHERRPAC]

Metadata	
Scientific Name	Etrumeus teres
Current Assess ID	FAJ-RHERRPAC-1985-2013-JPNIMP2016
Area	Pacific Ocean
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

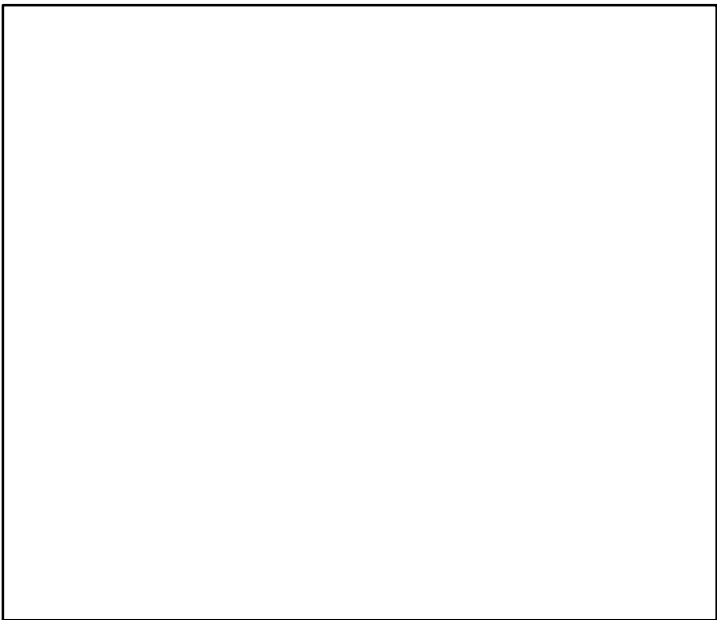
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.7
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	37,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

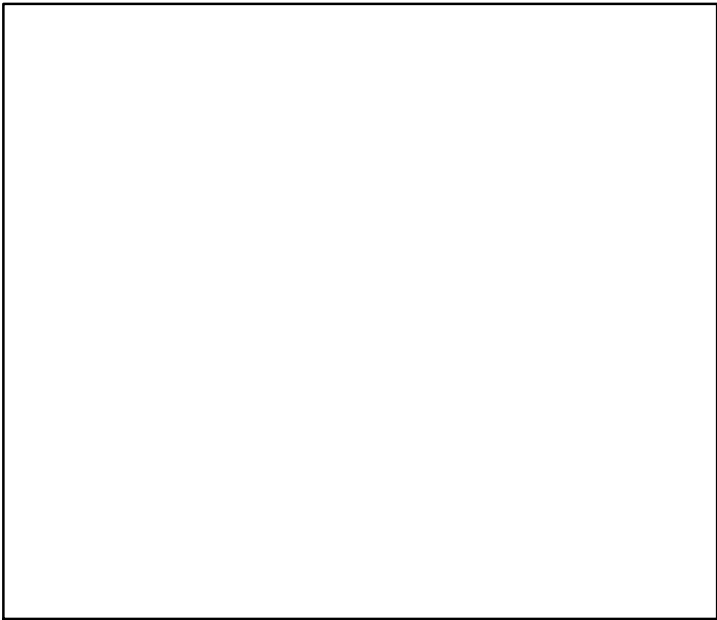
Kobe MSY*



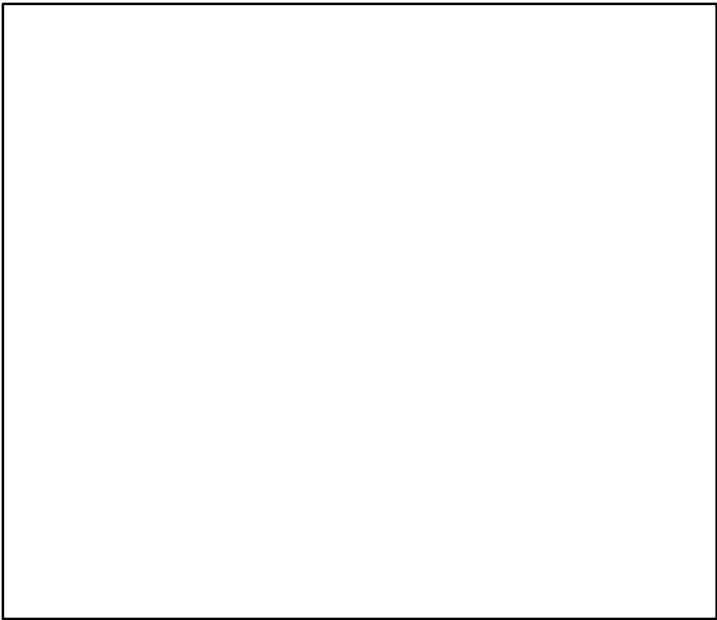
Kobe MGT*



Spawner Recruit*



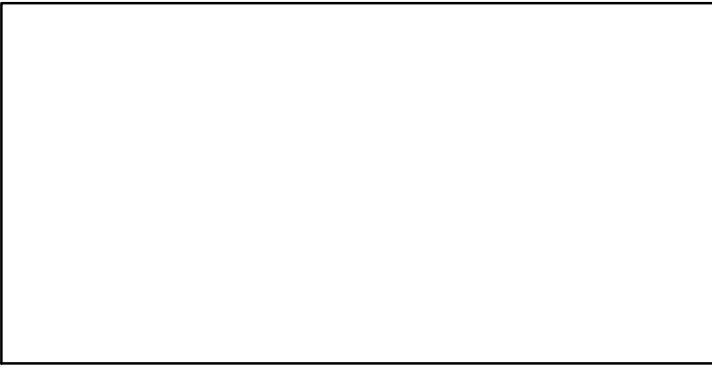
Production*



◆ Start Year ◆ End Year * No Data

Round herring Pacific Ocean [RHERRPAC]

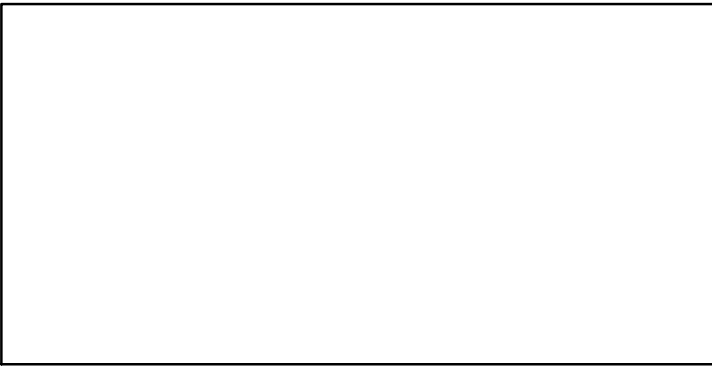
TB*



SSB*



TN *



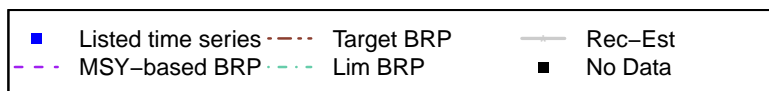
F*



ER*



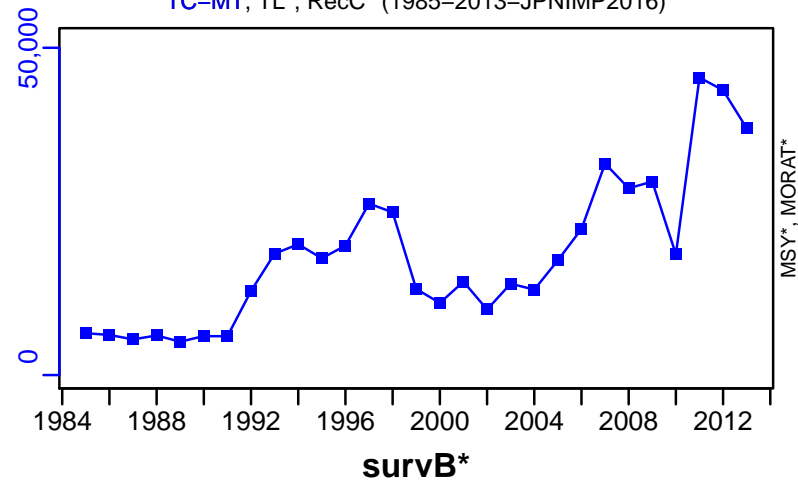
Recruits*



Round herring Pacific Ocean [RHERRPAC]

TC-MT, TL*, RecC* (1985-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Round herring Tsushima Strait [RHERRTSST]

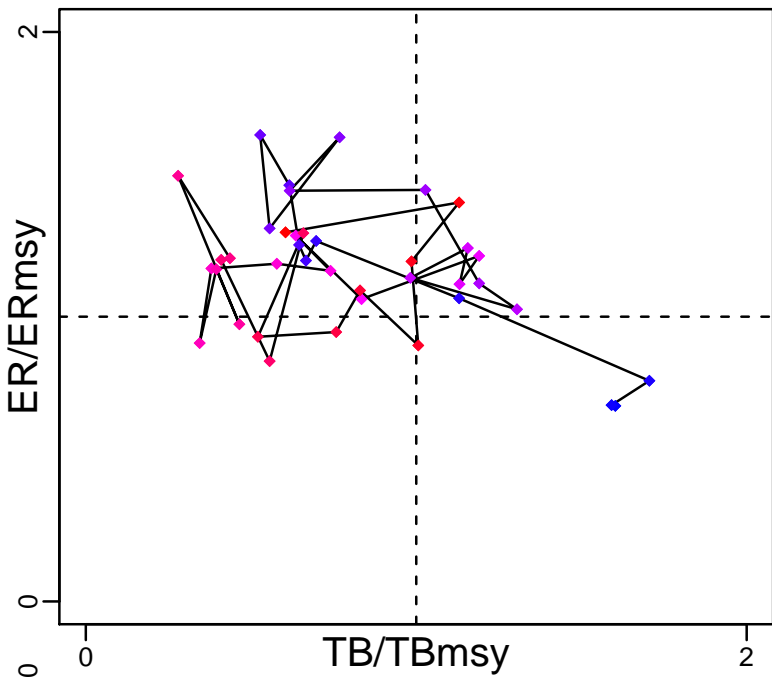
Metadata	
Scientific Name	Etrumeus teres
Current Assess ID	FAJ-RHERRTSST-1976-2013-JPNIMP2016
Area	Tsushima Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2014, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	87,363
SSBmsy	SSBmsy-MT	2013	74,564
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.36
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	43,992
M	M-1/yr	2014	0.7
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	27,000
Flim	-	-	-
ERlim	-	-	-

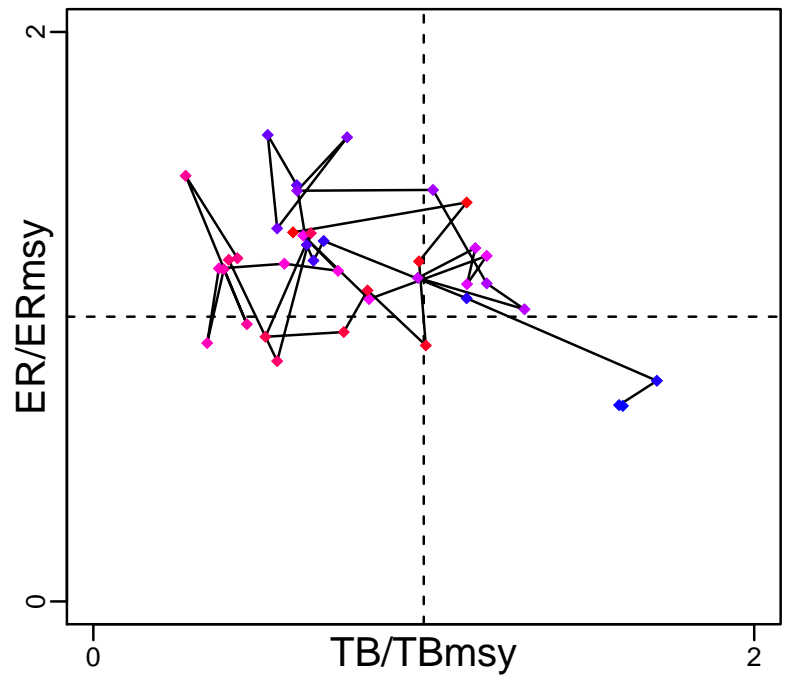
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	52,800	Both	0+
SSB	SSB-MT	2014	32,600	-	-
TN	-	-	-	-	-
R	R-E00	2014	1.19×10^9	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	24,900		
TL	TL-MT	2014	24,900		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.6		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.9		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.18		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Round herring Tsushima Strait [RHERTSST]

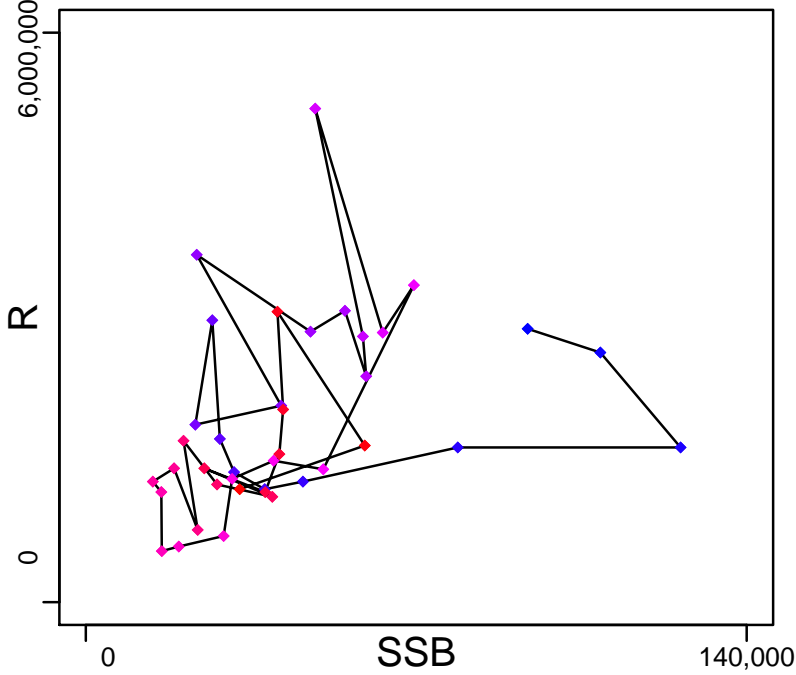
Kobe MSYpref (1975–2014–KUROTA)



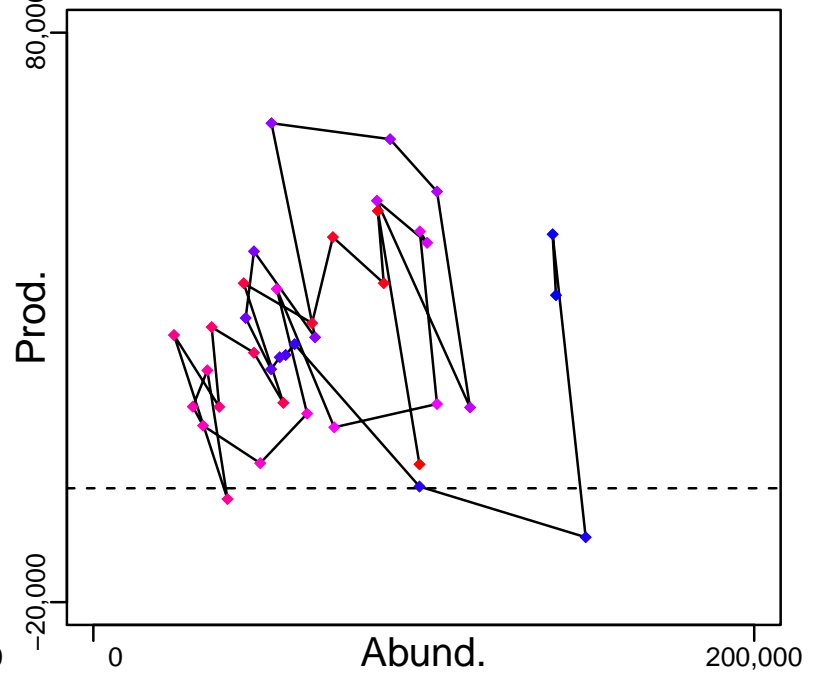
Kobe MGTpref (1975–2014–KUROTA)



Spawner Recruit (1975–2014–KUROTA)



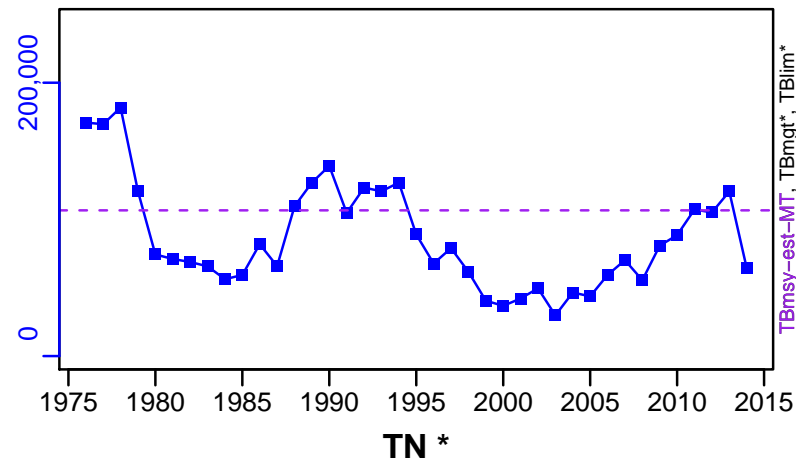
Production (1975–2014–KUROTA)



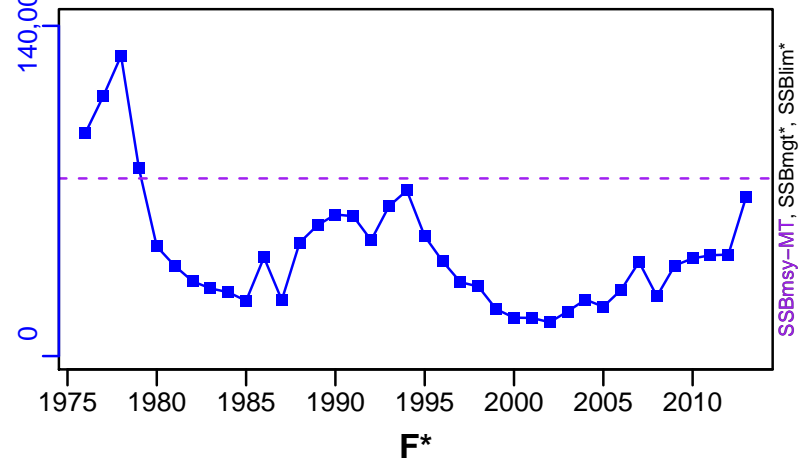
◆ Start Year ◆ End Year * No Data

Round herring Tsushima Strait [RHERTSST]

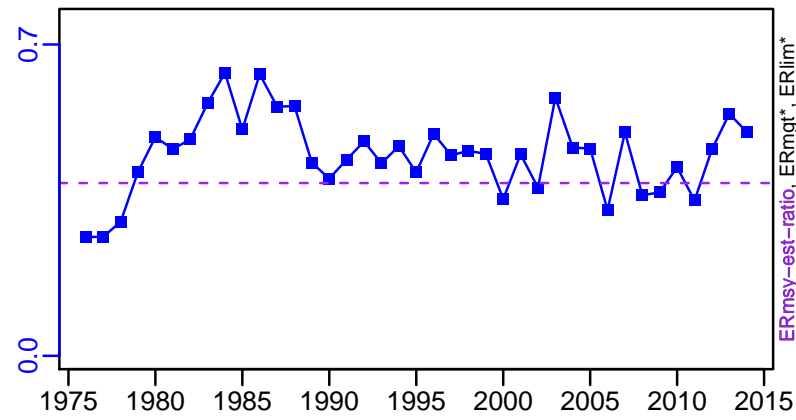
TB-MT (1975–2014–KUROTA)



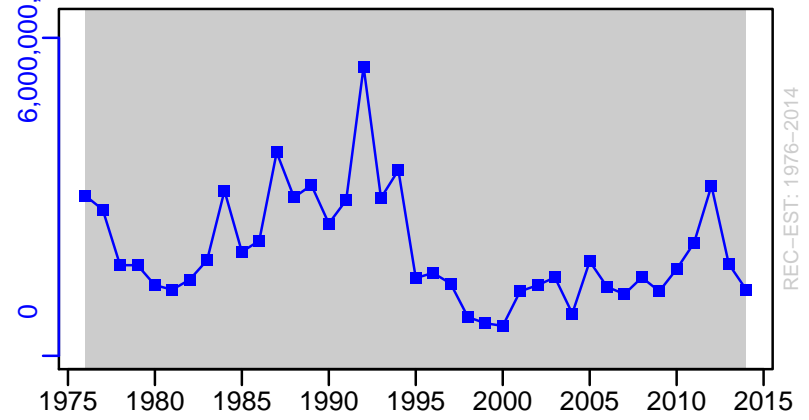
SSB-MT (1976–2013–JPNIMP2016)



ER-ratio (1975–2014–KUROTA)



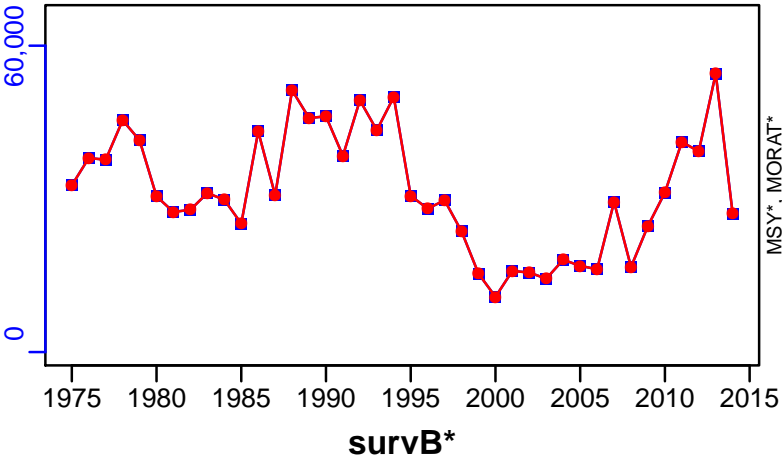
R-E00 (1975–2014–KUROTA)



Round herring Tsushima Strait [RHERTSST]

TC-MT, TL-MT, RecC* (1975-2014-KUROTA)

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

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

Round-nose flounder Sea of Japan [RSFLOUNSOJ]

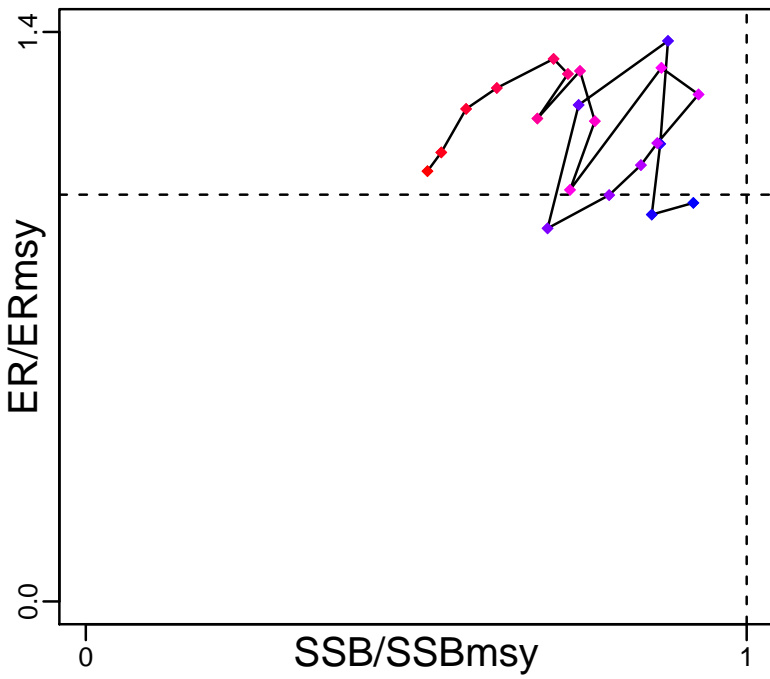
Metadata	
Scientific Name	Eopsetta grigorjewi
Current Assess ID	FAJ-RSFLOUNSOJ-1966-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	3830
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.28
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	1569
M	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

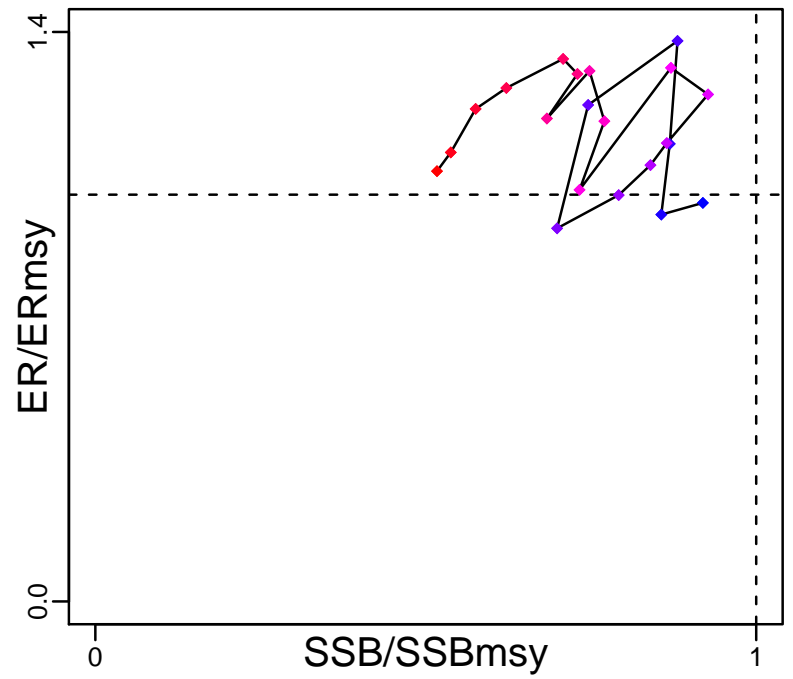
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	2740	-	1
SSB	SSB-MT	2013	1980	Both	3
TN	-	-	-	-	-
R	R-E00	2013	15,100,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	826		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.52		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.06		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Round-nose flounder Sea of Japan [RSFLOUNSOJ]

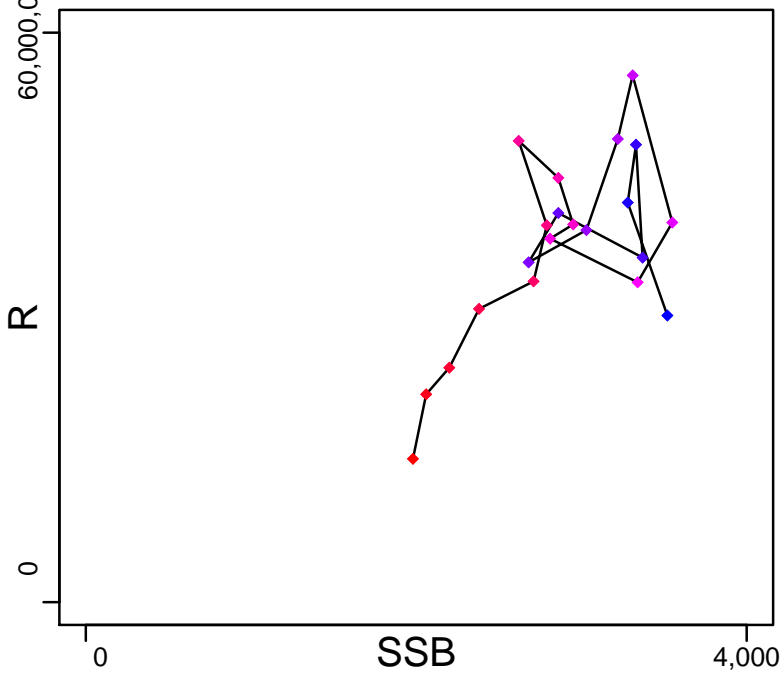
Kobe MSYpref (1966–2013–JPNIMP2016)



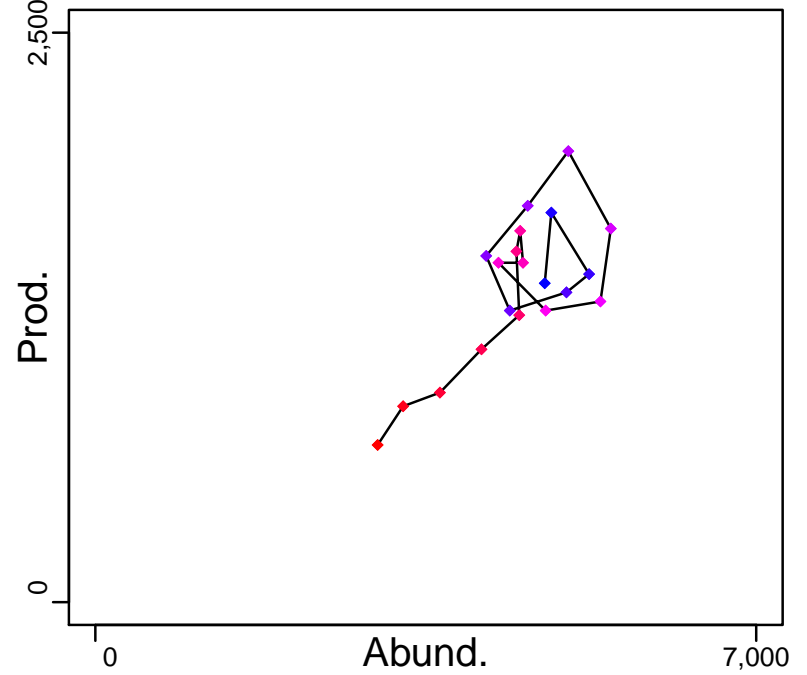
Kobe MGTpref (1966–2013–JPNIMP2016)



Spawner Recruit (1966–2013–JPNIMP2016)



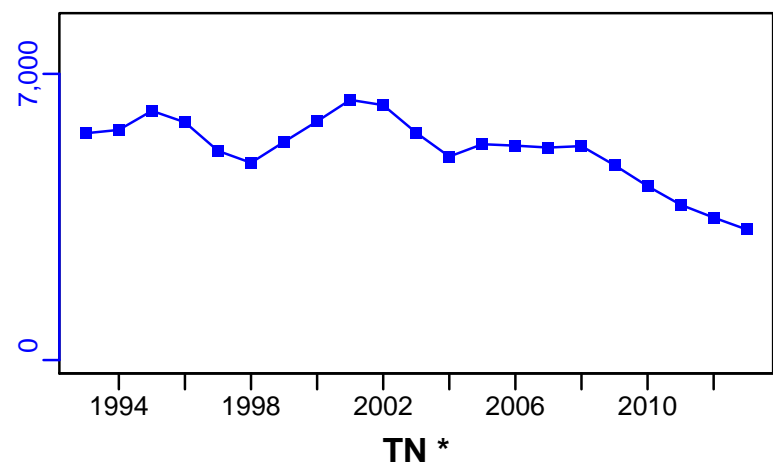
Production (1966–2013–JPNIMP2016)



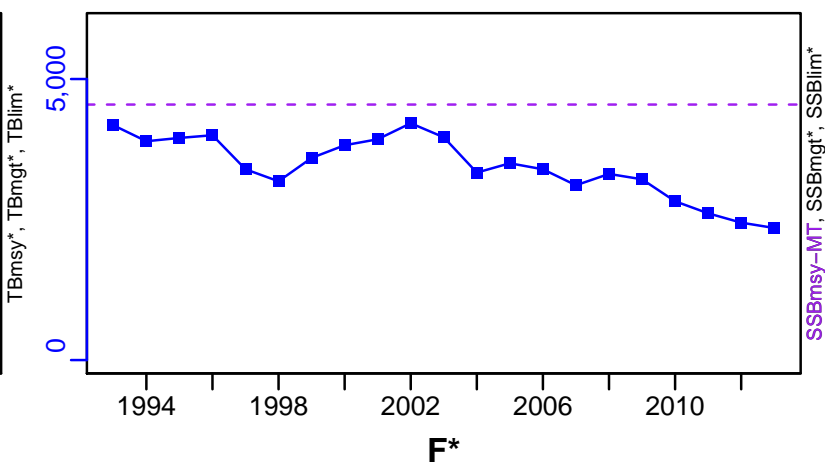
◆ Start Year ◆ End Year * No Data

Round-nose flounder Sea of Japan [RSFLOUNSOJ]

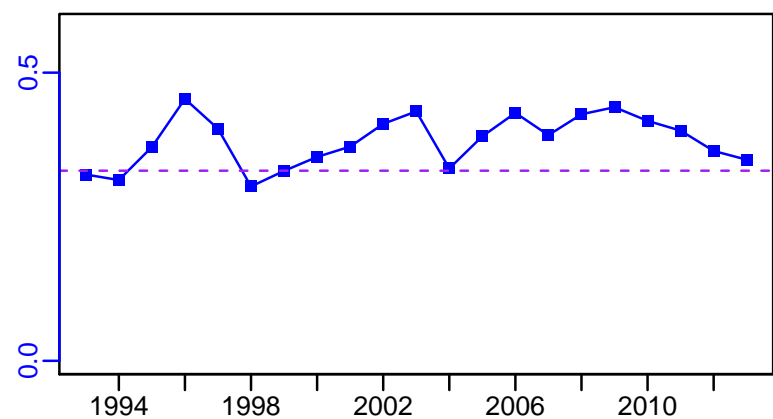
TB-MT (1966-2013-JPNIMP2016)



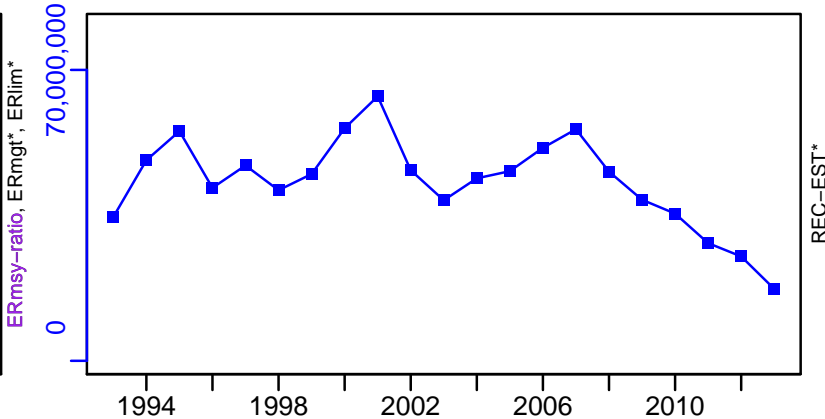
SSB-MT (1966-2013-JPNIMP2016)



ER-calc-ratio (1966-2013-JPNIMP2016)



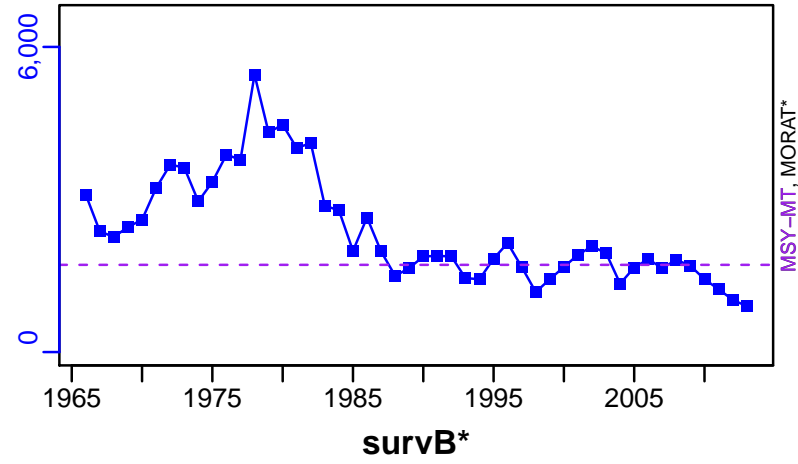
R-E00 (1966-2013-JPNIMP2016)



Round-nose flounder Sea of Japan [RSFLOUNSOJ]

TC-MT, TL*, RecC* (1966-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Roughscale sole North Pacific [RSSOLENPAC]

Metadata	
Scientific Name	Clidoderma asperrimum
Current Assess ID	FAJ-RSSOLENPAC-1971-2013-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	197		
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

Roughscale sole North Pacific [RSSOLENPAC]

TB*



SSB*



TN *



F*



ER*



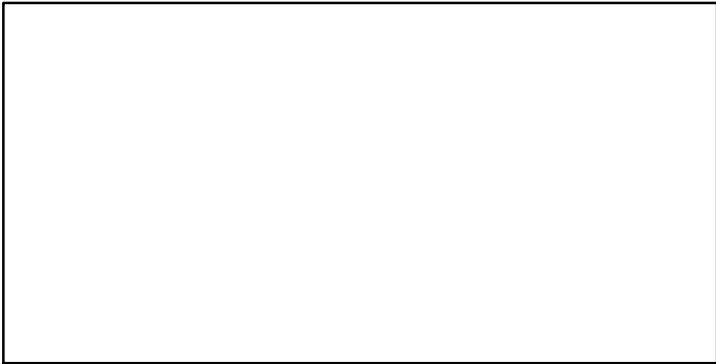
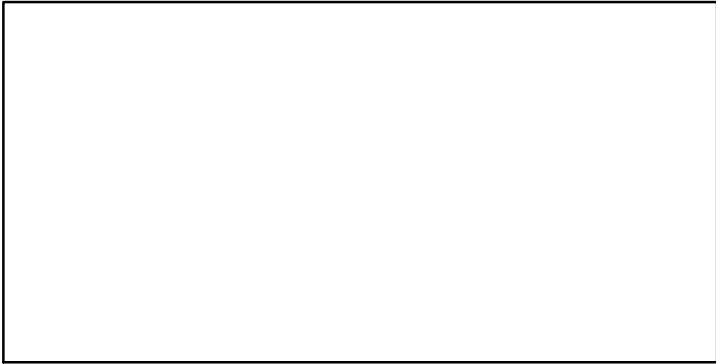
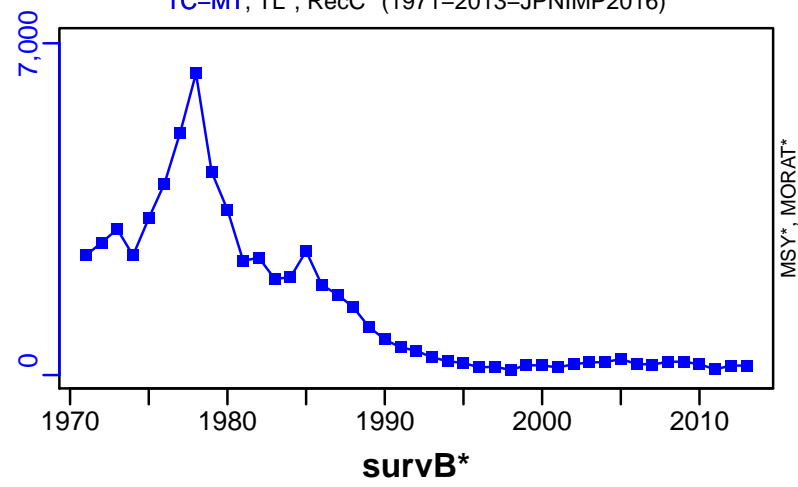
Recruits*



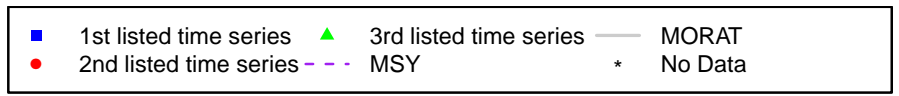
Roughscale sole North Pacific [RSSOLENPAC]

TC-MT, TL*, RecC* (1971–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Pacific saury Northwest Pacific [SAURNWPAC]

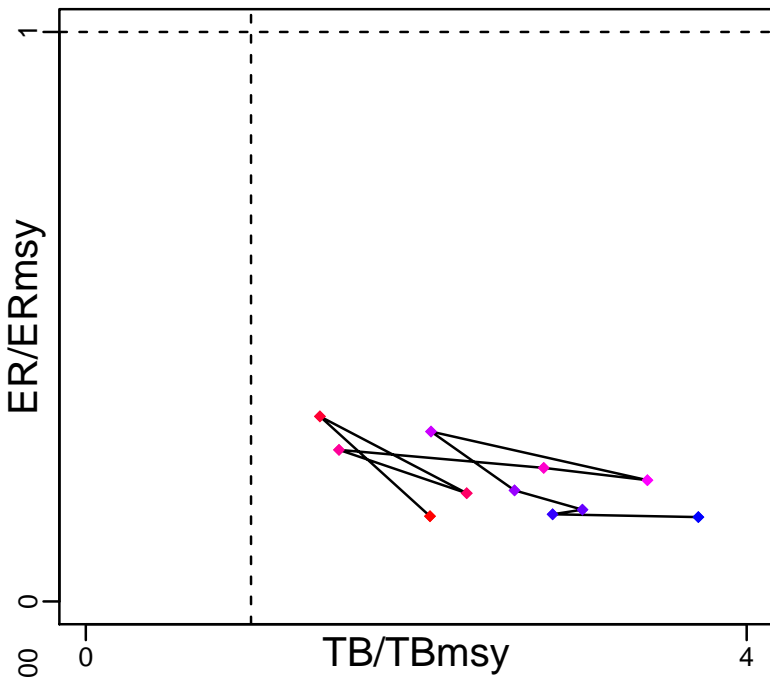
Metadata	
Scientific Name	Cololabis saira
Current Assess ID	FAJ-SAURNWPAC-1980-2013-JPNIMP2016
Area	Northwest Pacific
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	1,355,026
SSBmsy	SSBmsy-est-MT	2010	1,774,507
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.35
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	474,259
M	M-1/yr	2013	1.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

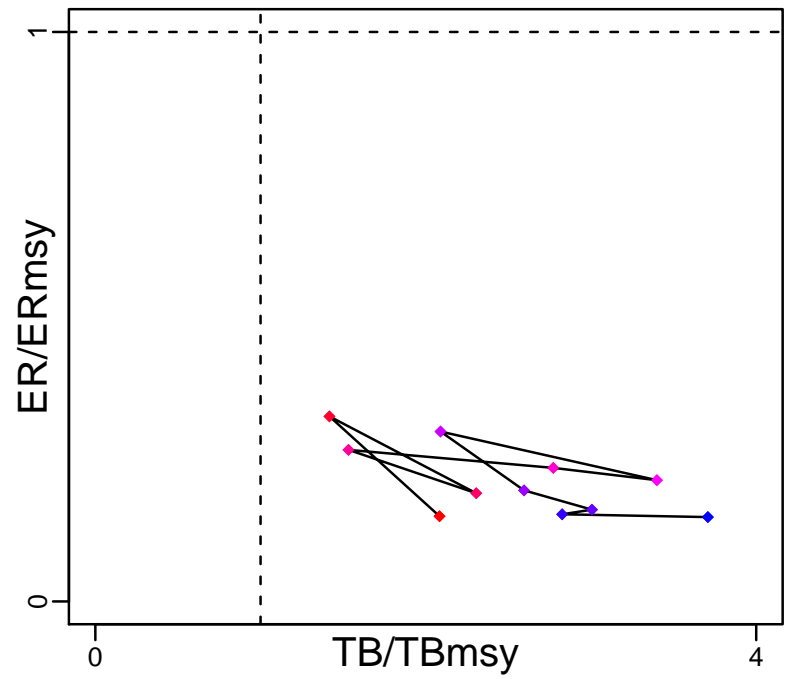
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	2,820,000	-	0
SSB	SSB-MT	2013	1,410,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	5.27×10^{10}	-	0
F	F-1/yr	2010	0	-	0 to 1
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	148,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	2.08		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2010	0.53		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.15		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific saury Northwest Pacific [SAURNWPAC]

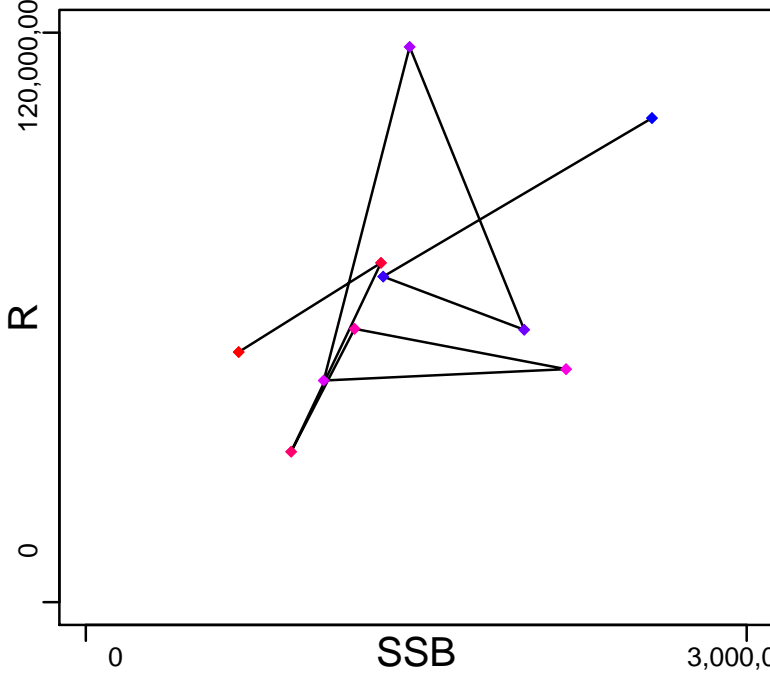
Kobe MSYpref (1980–2013–JPNIMP2016)



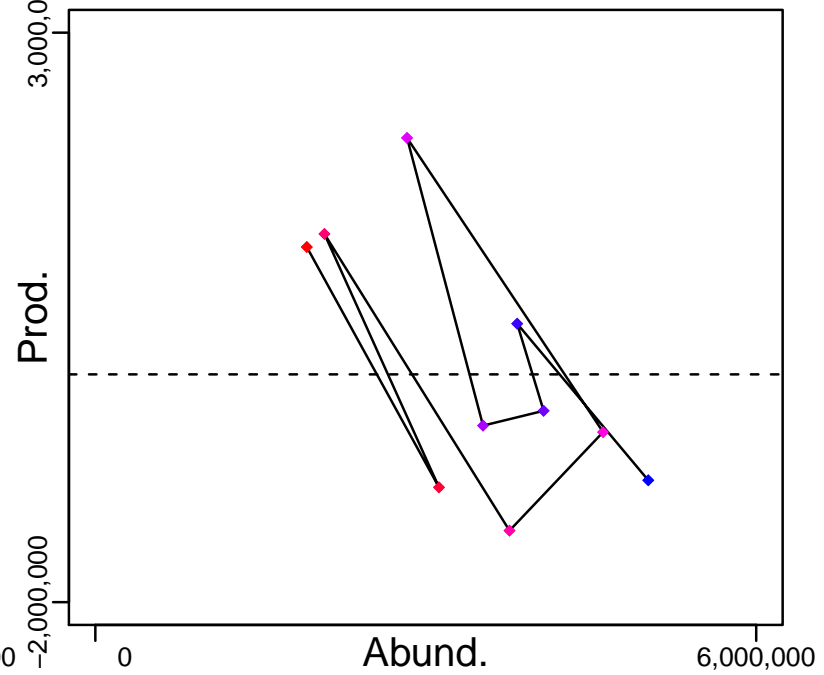
Kobe MGTpref (1980–2013–JPNIMP2016)



Spawner Recruit (1980–2013–JPNIMP2016)



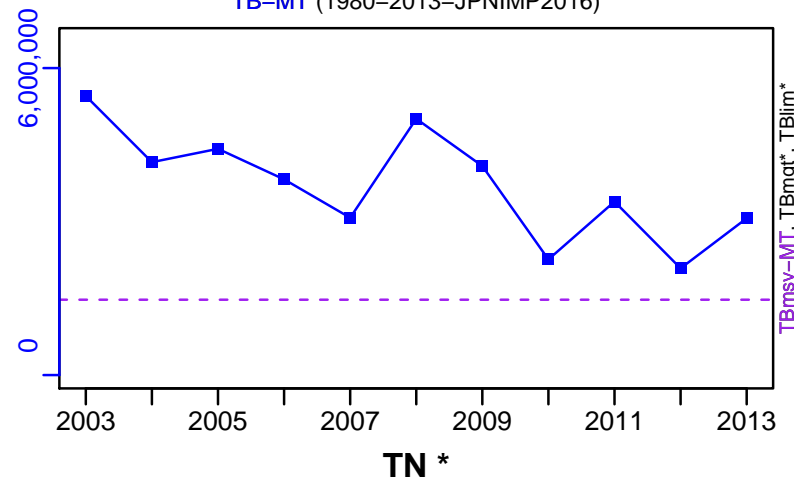
Production (1980–2013–JPNIMP2016)



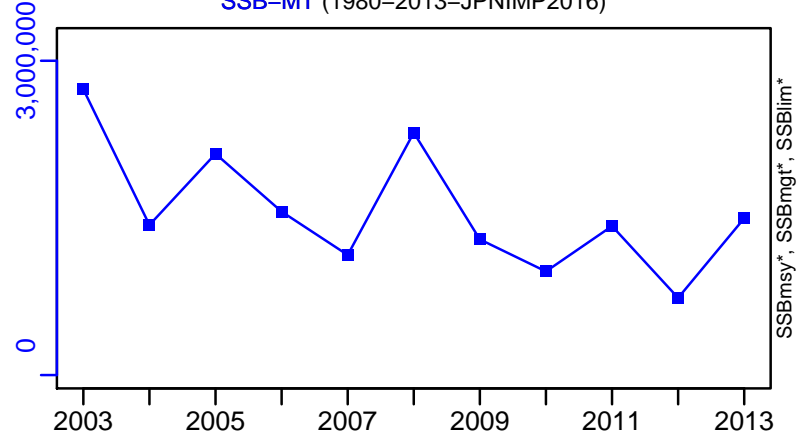
◆ Start Year ◆ End Year * No Data

Pacific saury Northwest Pacific [SAURNWPAC]

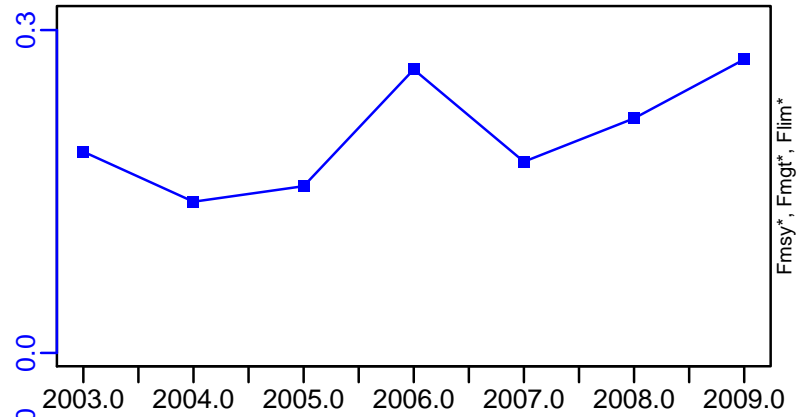
TB-MT (1980-2013-JPNIMP2016)



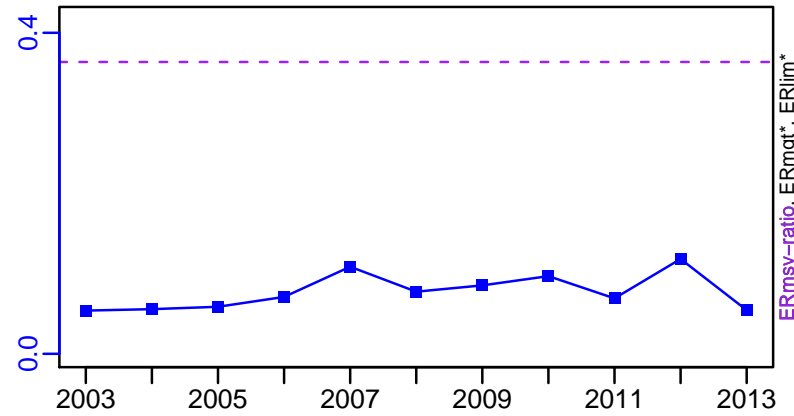
SSB-MT (1980-2013-JPNIMP2016)



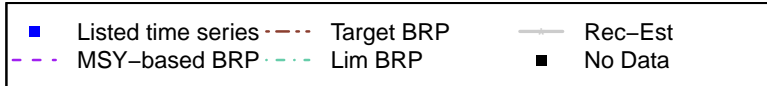
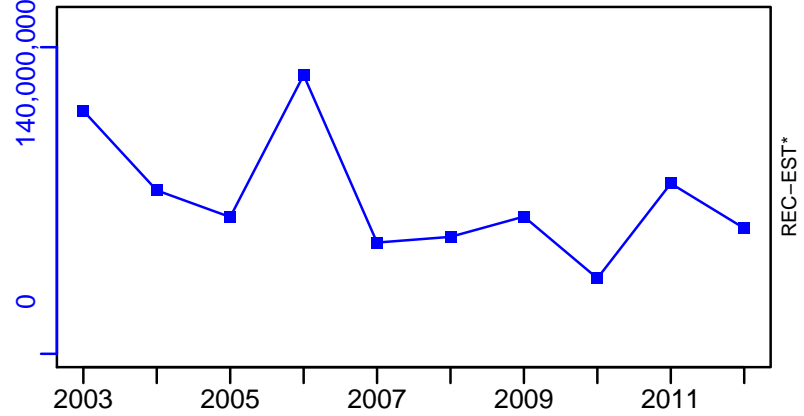
F-1/yr (1980-2010-ONO)



ER-calc-ratio (1980-2013-JPNIMP2016)



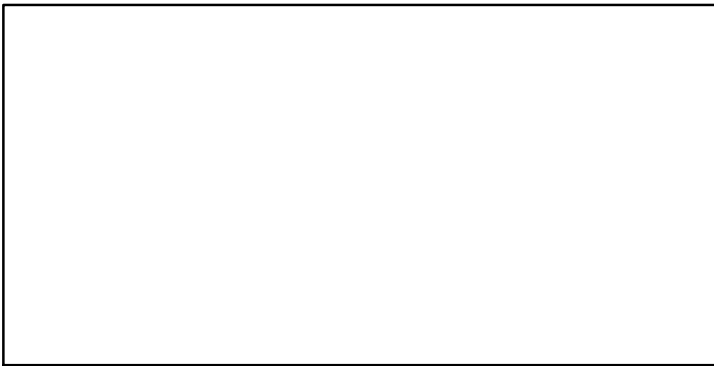
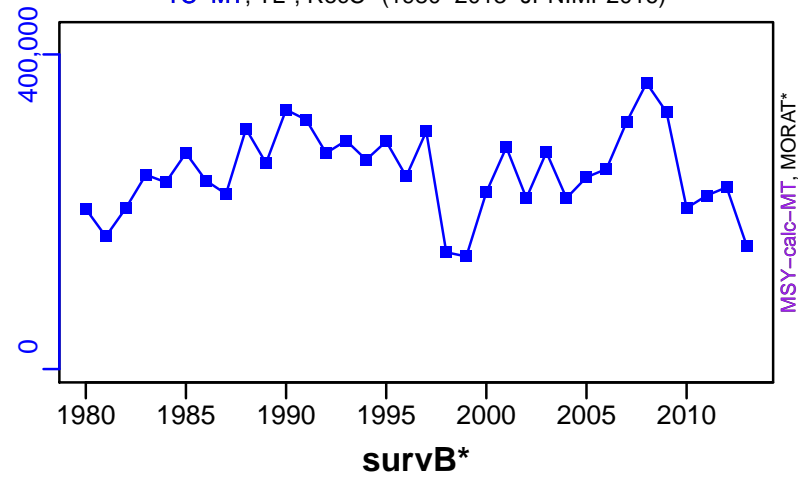
R-E00 (1980-2013-JPNIMP2016)



Pacific saury Northwest Pacific [SAURNWPAC]

TC-MT, TL*, RecC* (1980-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Shako Ise and Mikawa Bay [SHAKOIMKB]

Metadata	
Scientific Name	Oratosquilla oratoria
Current Assess ID	FAJ-SHAKOIMKB-1970-2013-JPNIMP2016
Area	Ise and Mikawa Bay
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	282		
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*

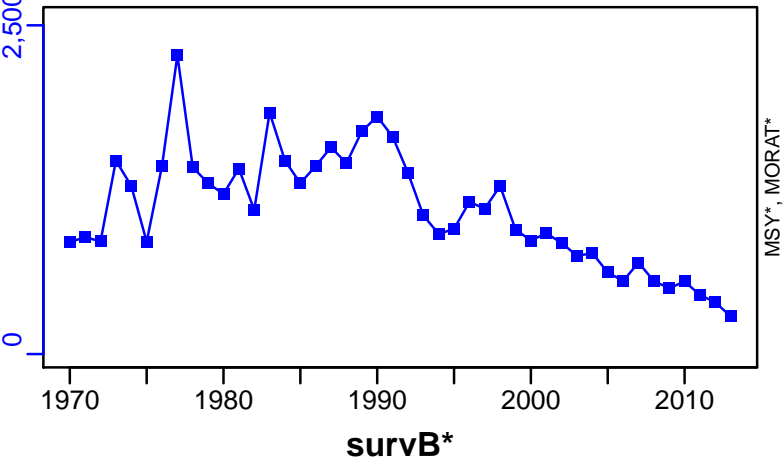


Recruits*



Shako Ise and Mikawa Bay [SHAKOIMKB]

TC-MT, TL*, RecC* (1970-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Snow crab Sea of Japan East [SNOWCRABESJ]

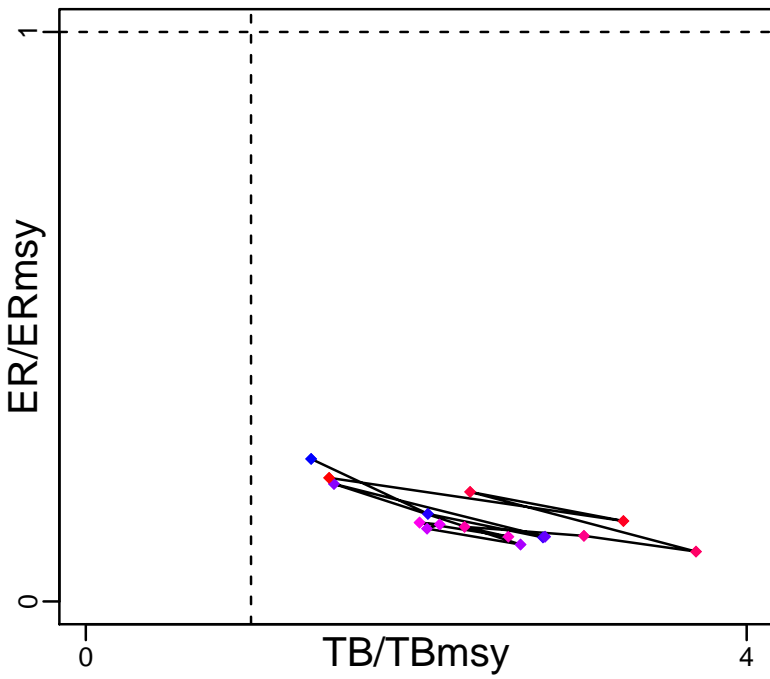
Metadata	
Scientific Name	Chionoecetes opilio
Current Assess ID	FAJ-SNOWCRABESJ-1998-2014-JPNIMP2016
Area	Sea of Japan East
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2014	1193
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.7
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2014	829
M	M-1/yr	2014	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

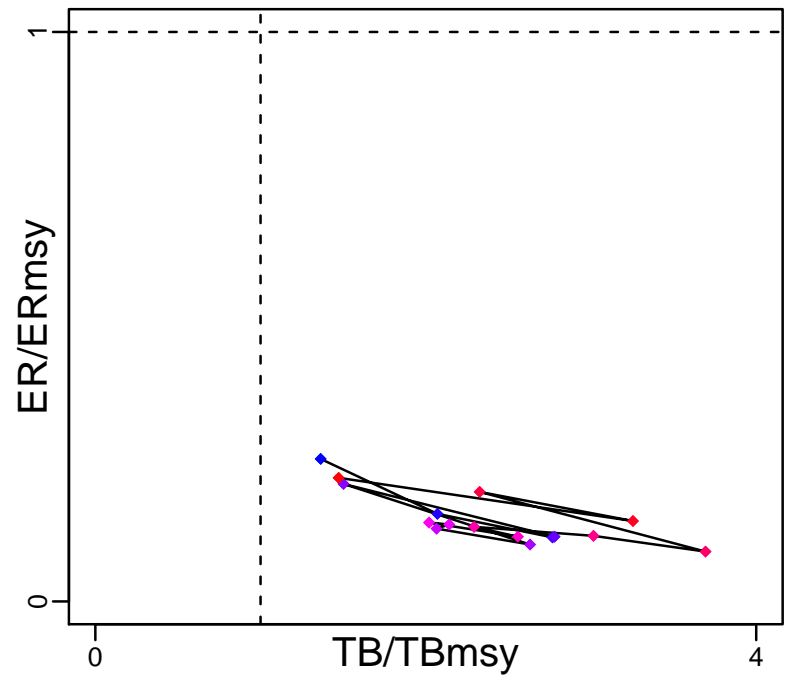
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	3280	-	6
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	265		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	2.75		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Snow crab Sea of Japan East [SNOWCRABESJ]

Kobe MSYpref (1998–2014–JPNIMP2016)



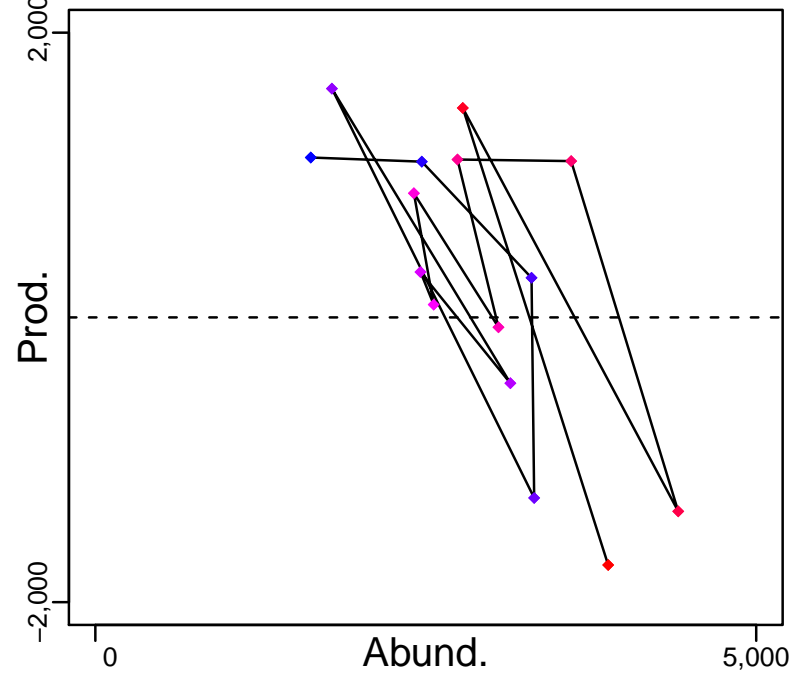
Kobe MGTpref (1998–2014–JPNIMP2016)



Spawner Recruit*



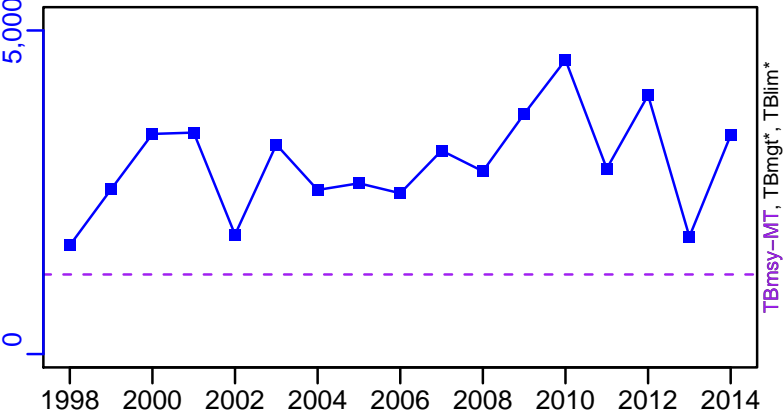
Production (1998–2014–JPNIMP2016)



◆ Start Year ◆ End Year * No Data

Snow crab Sea of Japan East [SNOWCRABESJ]

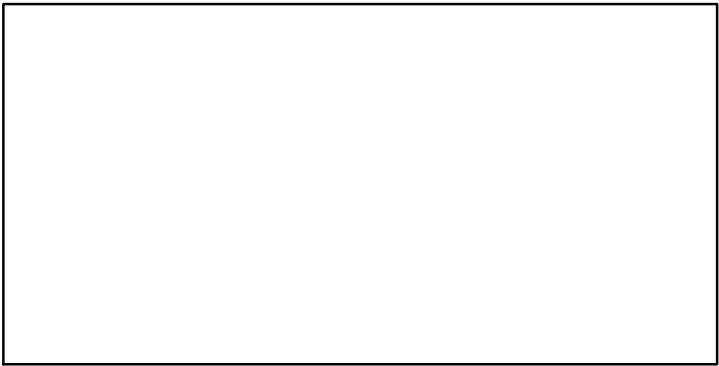
TB-MT (1998-2014-JPNIMP2016)



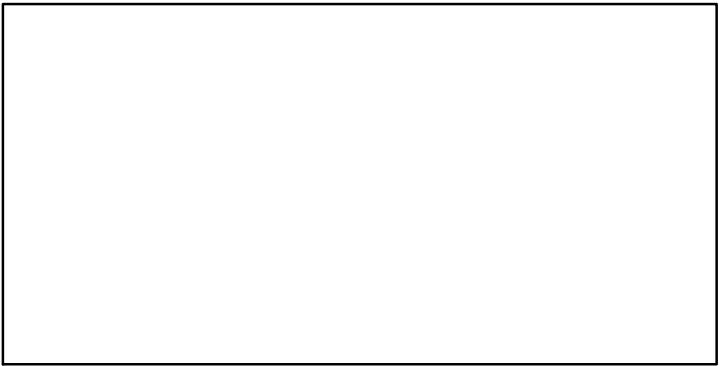
SSB*



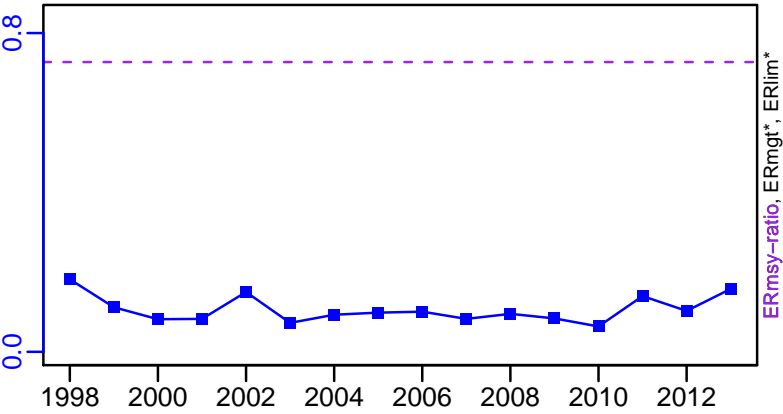
TN *



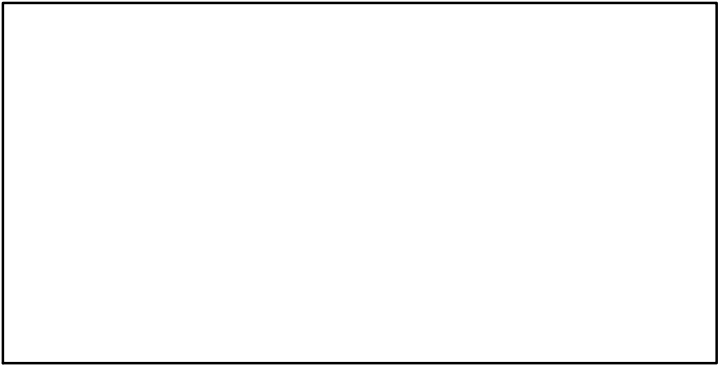
F*



ER-calc-ratio (1998-2014-JPNIMP2016)

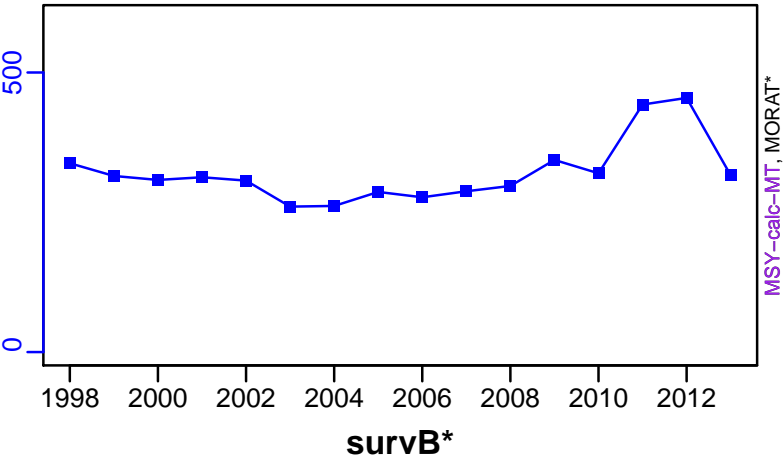


Recruits*



Snow crab Sea of Japan East [SNOWCRABESJ]

TC-MT, TL*, RecC* (1998–2014–JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*

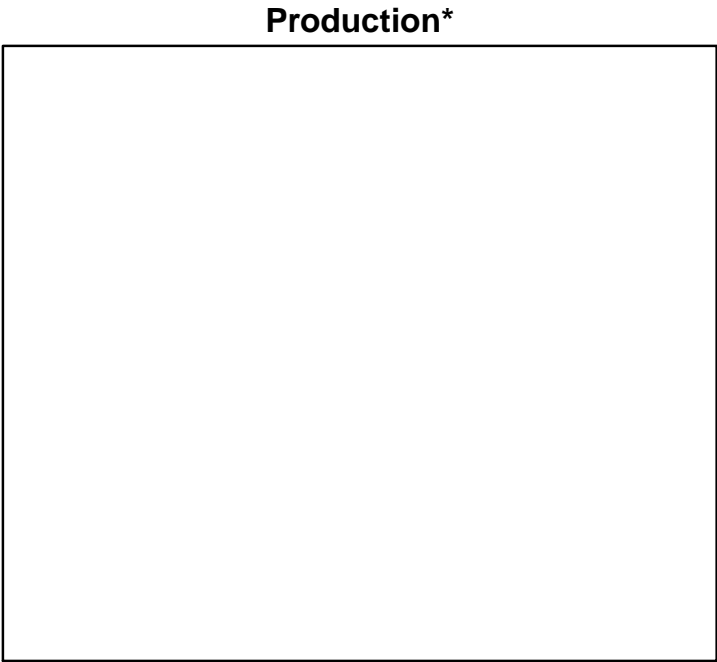
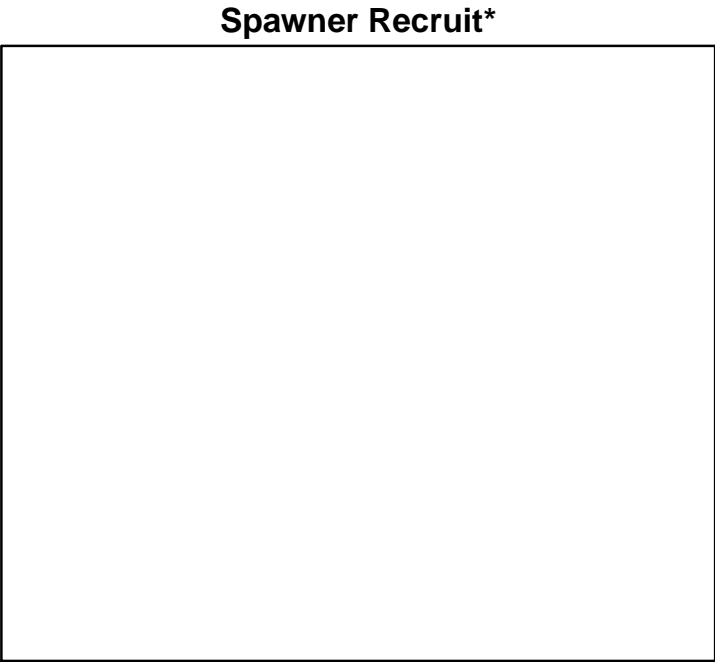


Snow crab Hokkaido [SNOWCRABHOKK]

Metadata	
Scientific Name	Chionoecetes opilio
Current Assess ID	FAJ-SNOWCRABHOKK-1986-2013-JPNIMP2016
Area	Hokkaido
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	29		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Snow crab Hokkaido [SNOWCRABHOKK]

TB*



SSB*



TN *



F*



ER*



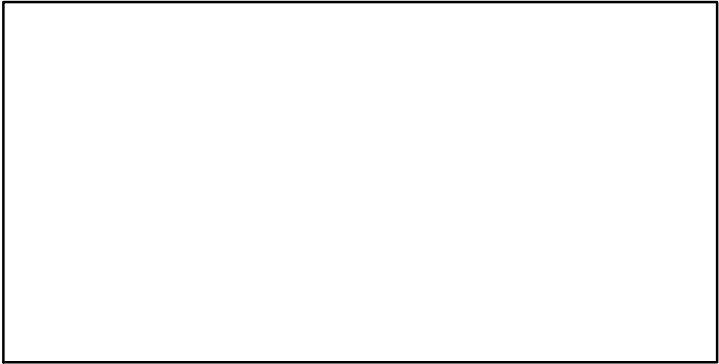
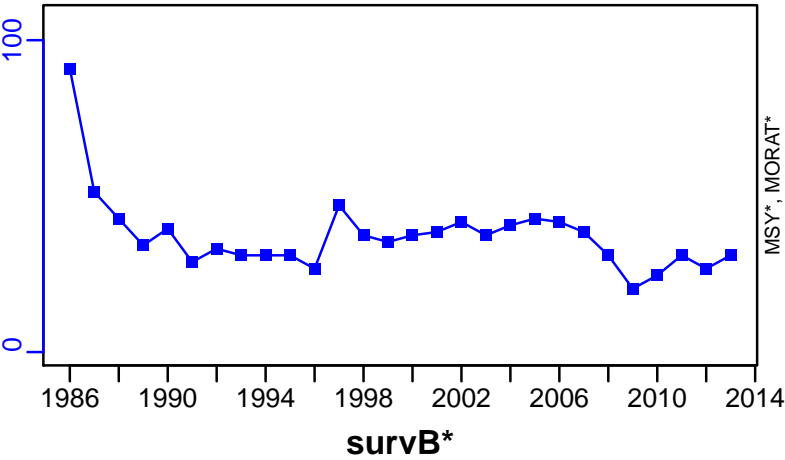
Recruits*



Snow crab Hokkaido [SNOWCRABHOKK]

TC-MT, TL*, RecC* (1986-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Snow crab North Pacific [SNOWCRABNPAC]

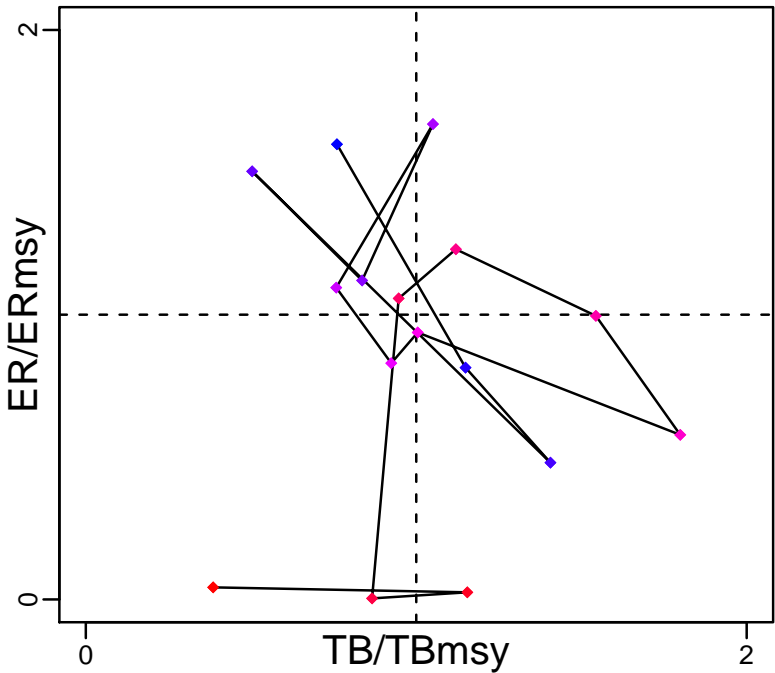
Metadata	
Scientific Name	Chionoecetes opilio
Current Assess ID	FAJ-SNOWCRABNPAC-1992-2013-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	988
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.16
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	159
M	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

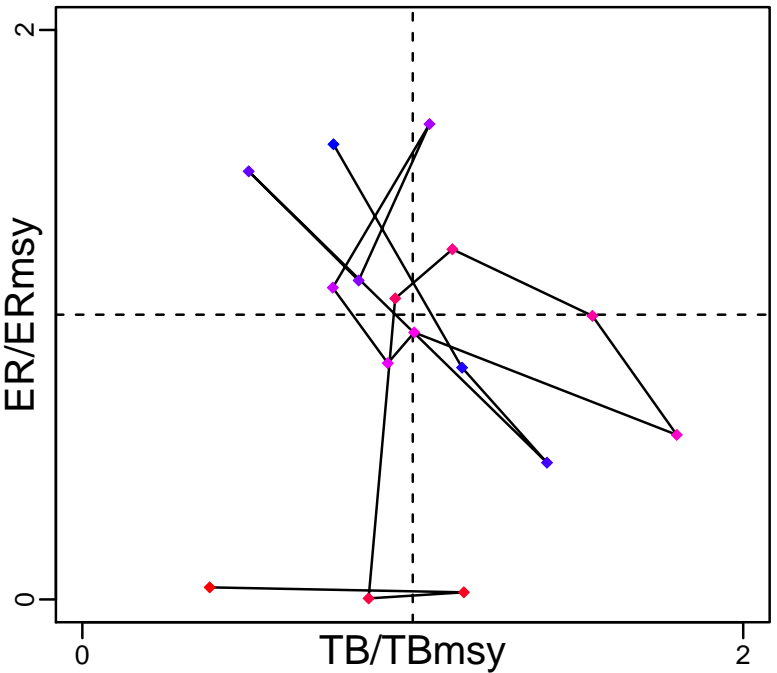
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	381	-	7
SSB	SSB-MT	2013	83	Females	8
TN	-	-	-	-	-
R	R-E00	2013	2,620,000	-	7
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	2.6		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	0.39		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.04		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Snow crab North Pacific [SNOWCRABNPAC]

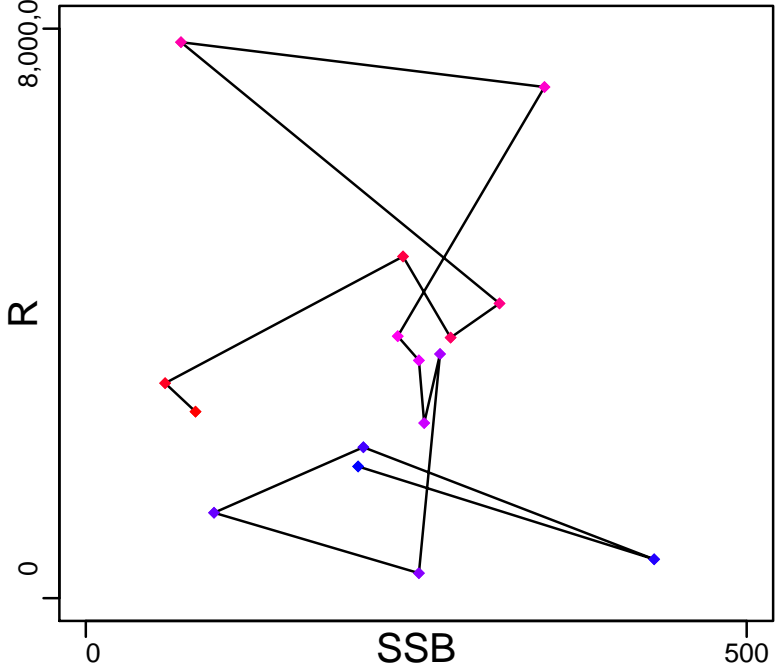
Kobe MSYpref (1992–2013–JPNIMP2016)



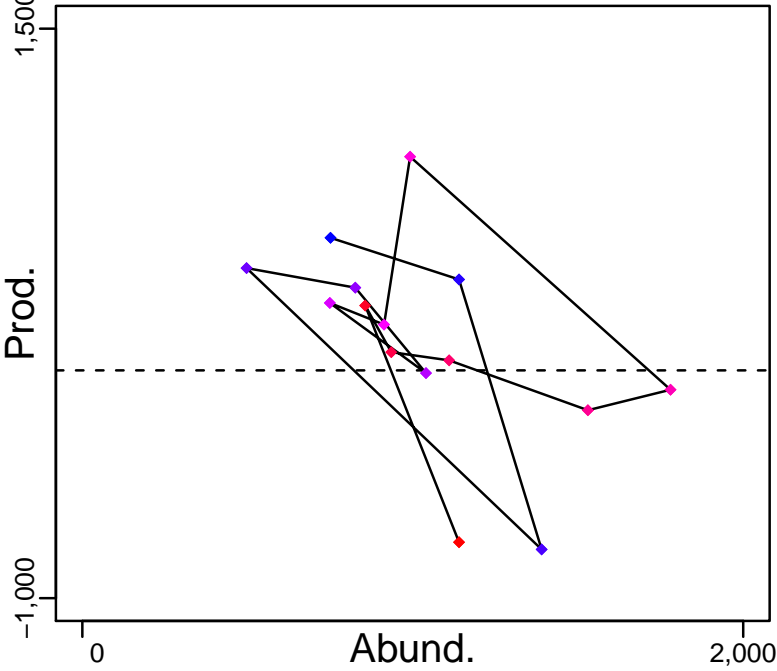
Kobe MGTpref (1992–2013–JPNIMP2016)



Spawner Recruit (1992–2013–JPNIMP2016)



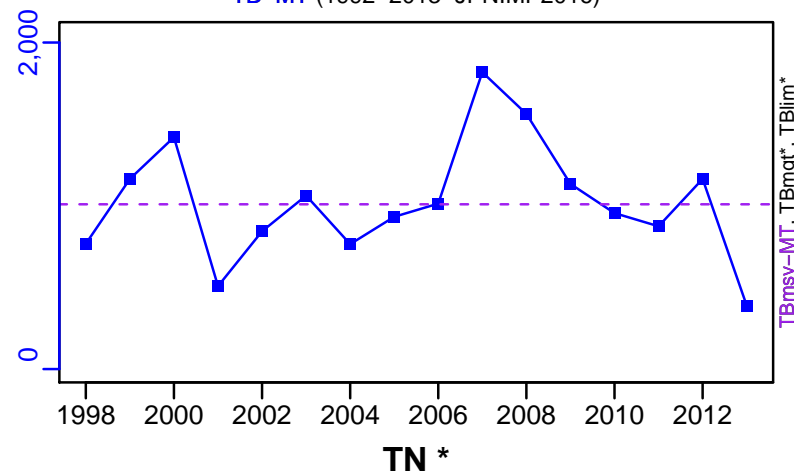
Production (1992–2013–JPNIMP2016)



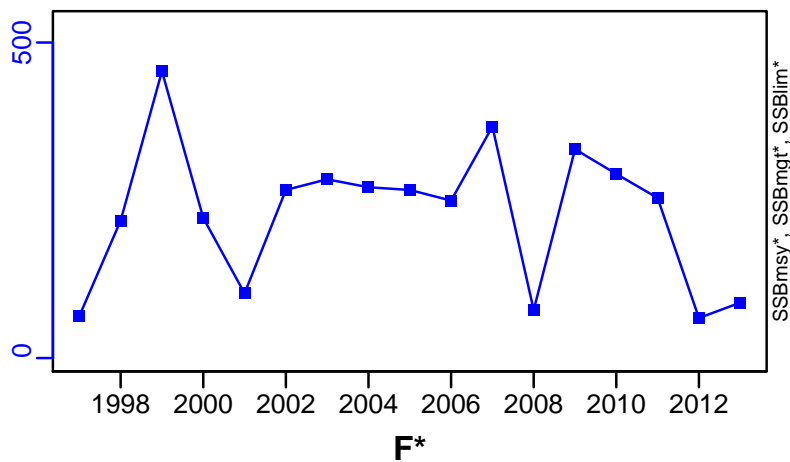
◆ Start Year ◆ End Year * No Data

Snow crab North Pacific [SNOWCRABNPAC]

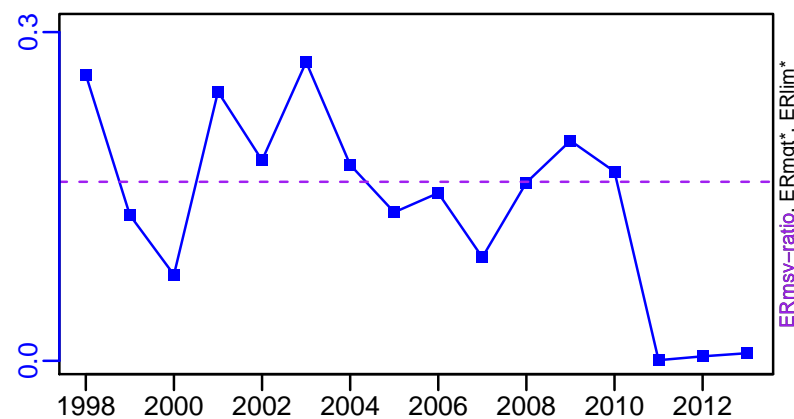
TB-MT (1992-2013-JPNIMP2016)



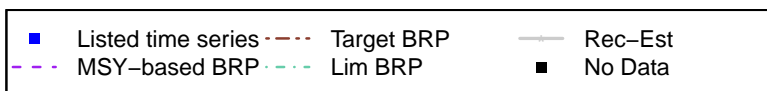
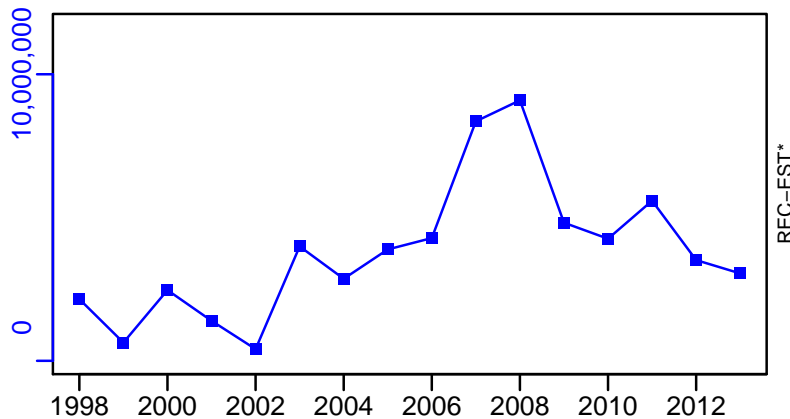
SSB-MT (1992-2013-JPNIMP2016)



ER-calc-ratio (1992-2013-JPNIMP2016)

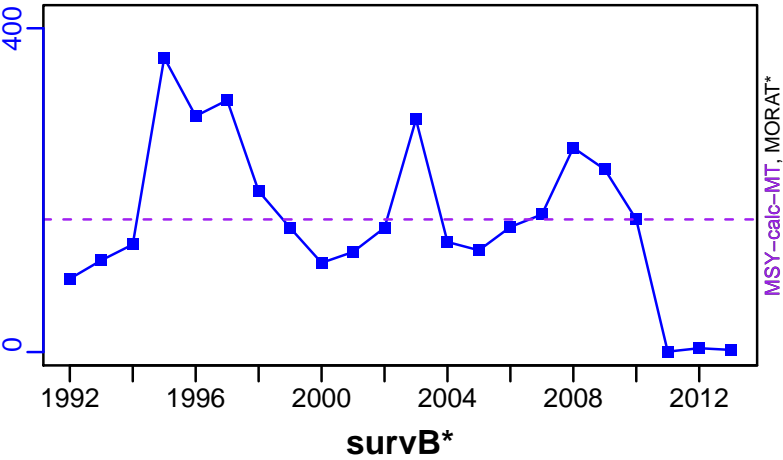


R-E00 (1992-2013-JPNIMP2016)



Snow crab North Pacific [SNOWCRABNPAC]

TC-MT, TL*, RecC* (1992-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*

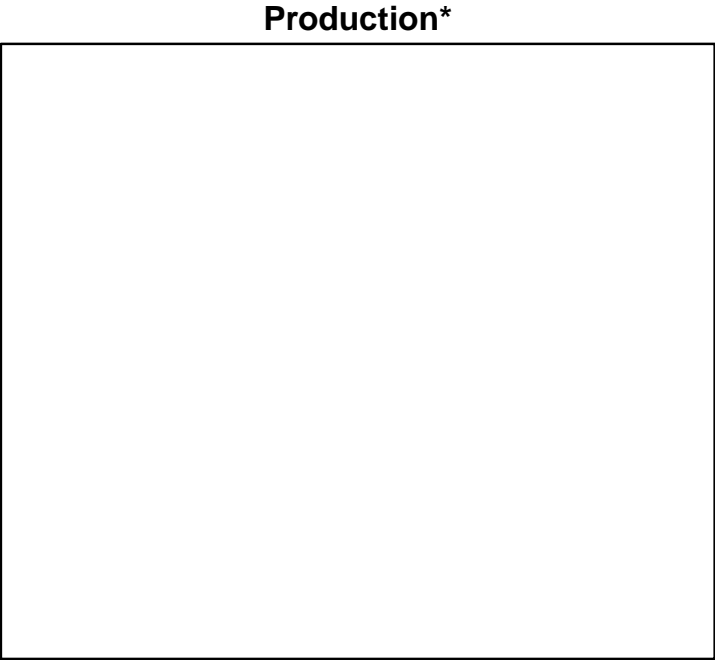
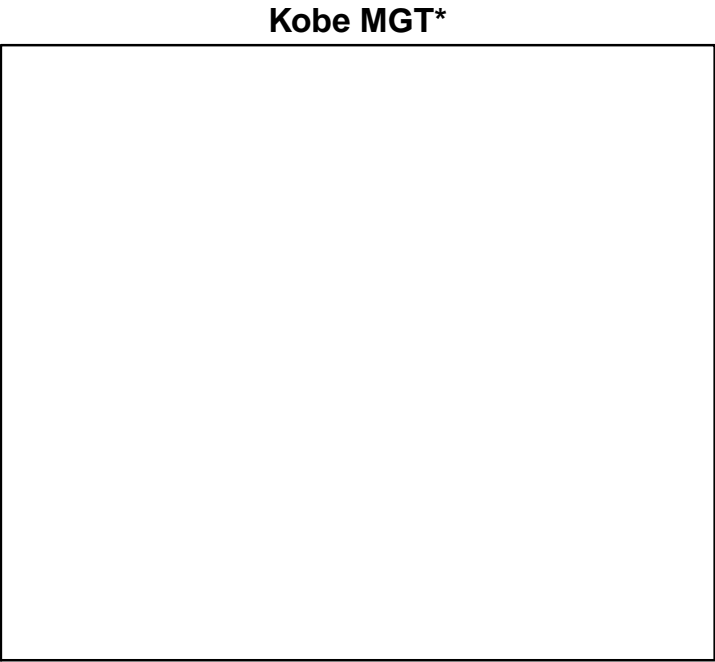


Snow crab Okhotsk Sea [SNOWCRABOKS]

Metadata	
Scientific Name	Chionoecetes opilio
Current Assess ID	FAJ-SNOWCRABOKS-1985-2013-JPNIMP2016
Area	Okhotsk Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

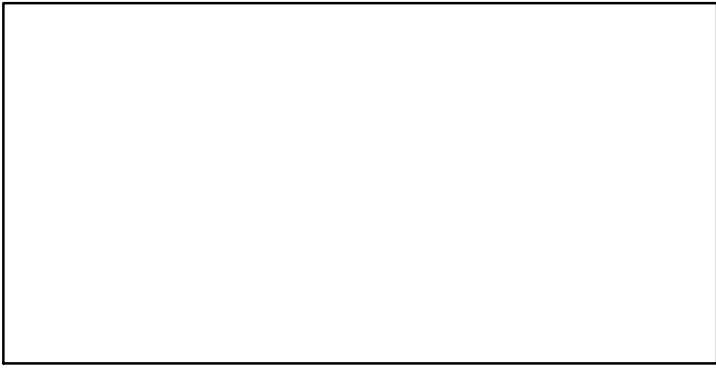
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	322		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Snow crab Okhotsk Sea [SNOWCRABOKS]

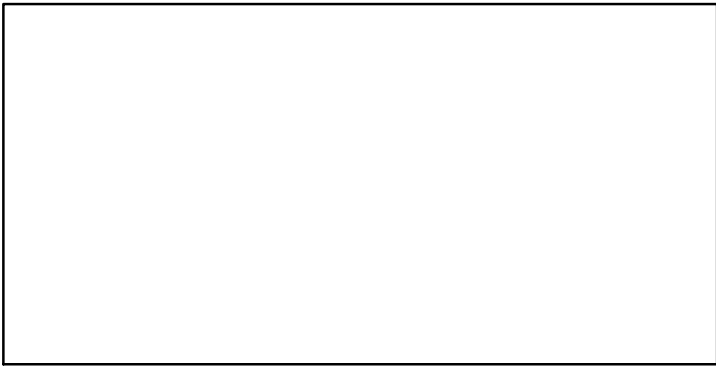
TB*



SSB*



TN *



F*



ER*



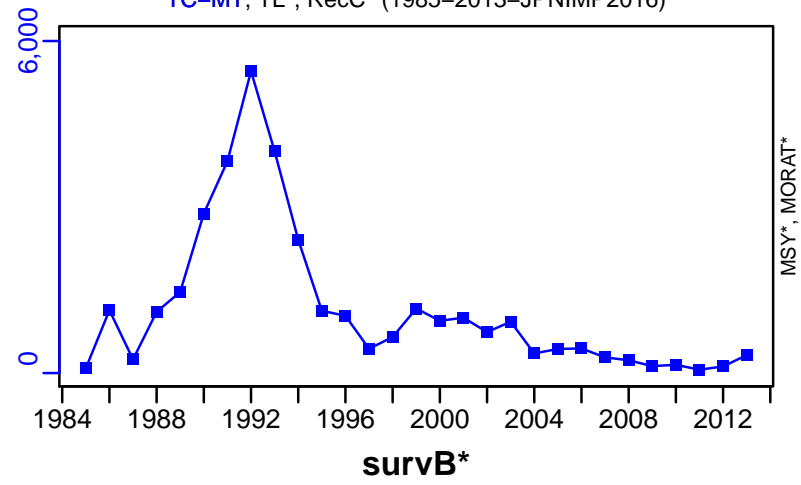
Recruits*



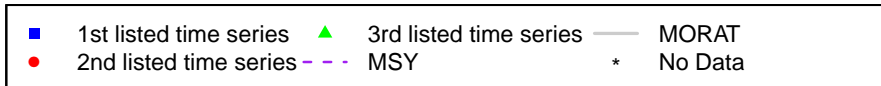
Snow crab Okhotsk Sea [SNOWCRABOKS]

TC-MT, TL*, RecC* (1985-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Snow crab Sea of Japan West [SNOWCRABWSJ]

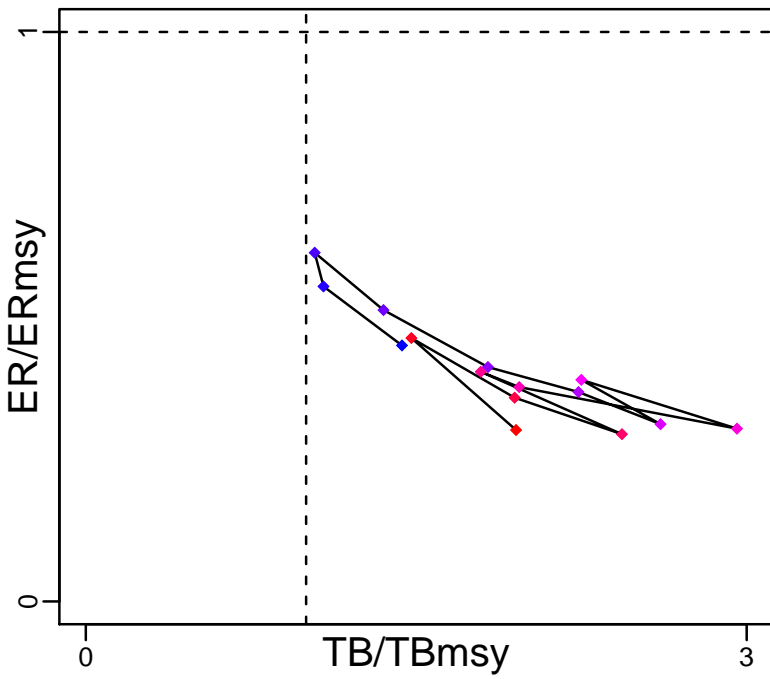
Metadata	
Scientific Name	Chionoecetes opilio
Current Assess ID	FAJ-SNOWCRABWSJ-1999-2015-JPNIMP2016
Area	Sea of Japan West
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	11,408
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	0.48
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2015	5476
M	M-1/yr	2015	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

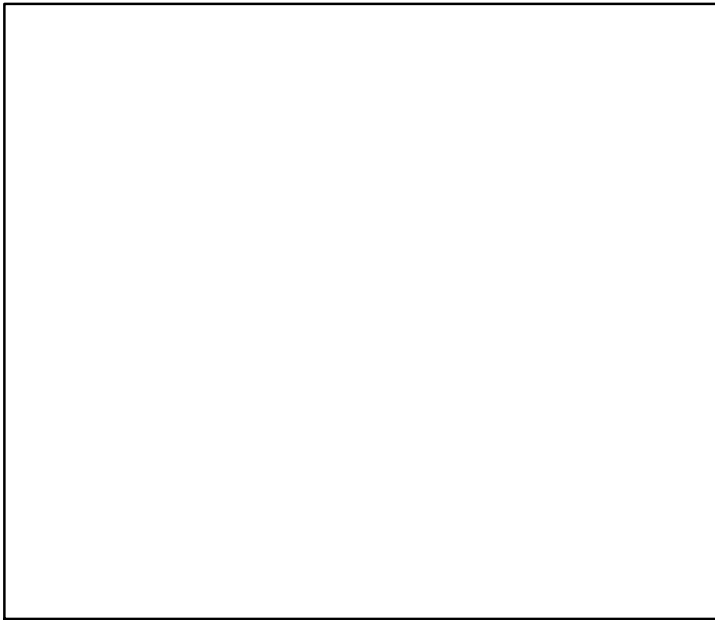
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	14,700	-	6
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	3220		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	1.29		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2015	0.3		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Snow crab Sea of Japan West [SNOWCRABWSJ]

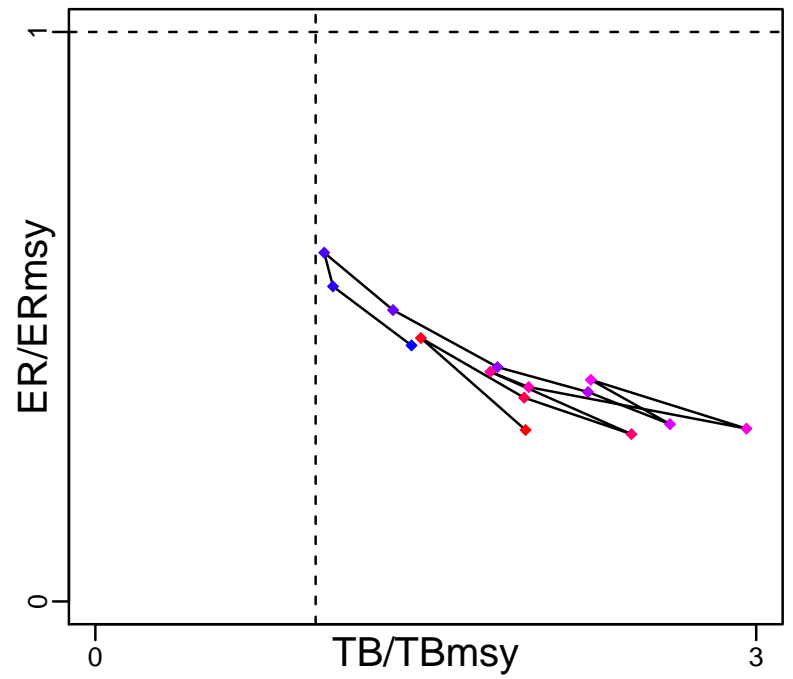
Kobe MSYpref (1999–2015–JPNIMP2016)



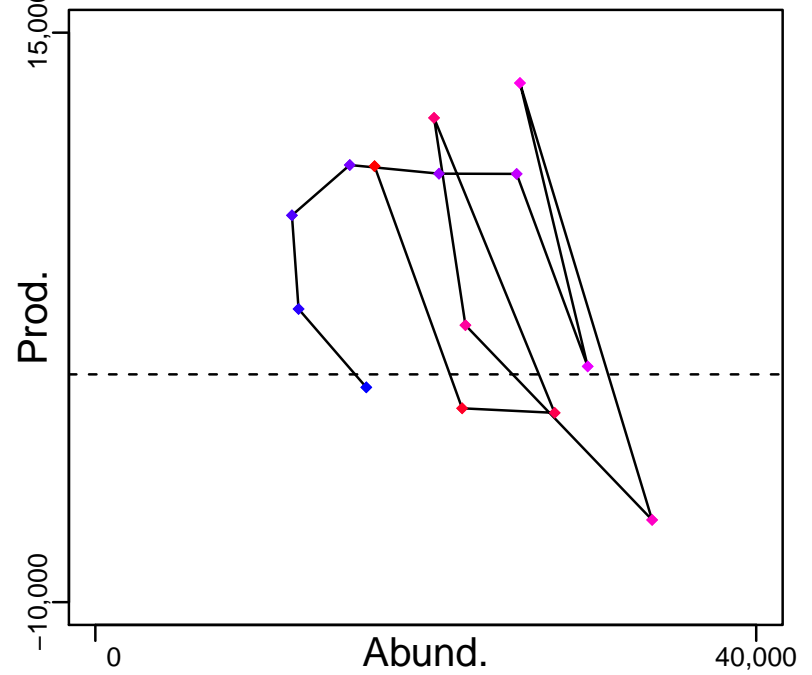
Spawner Recruit*



Kobe MGTpref (1999–2015–JPNIMP2016)



Production (1999–2015–JPNIMP2016)

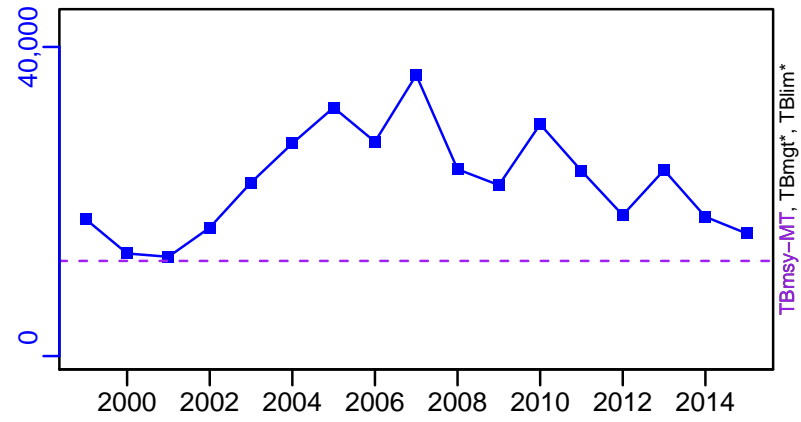


◆ Start Year ◆ End Year * No Data

Snow crab Sea of Japan West [SNOWCRABWSJ]

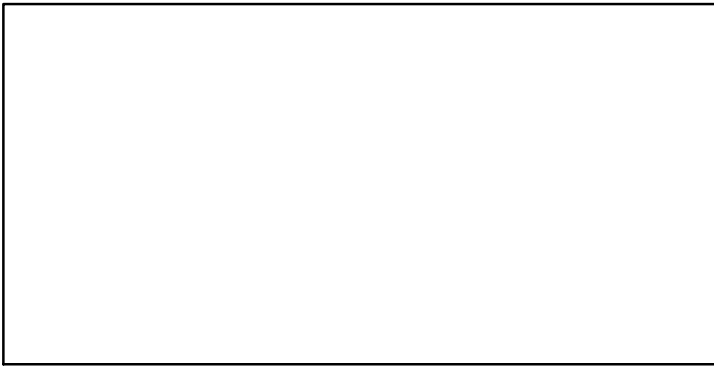
TB-MT (1999-2015-JPNIMP2016)

SSB*



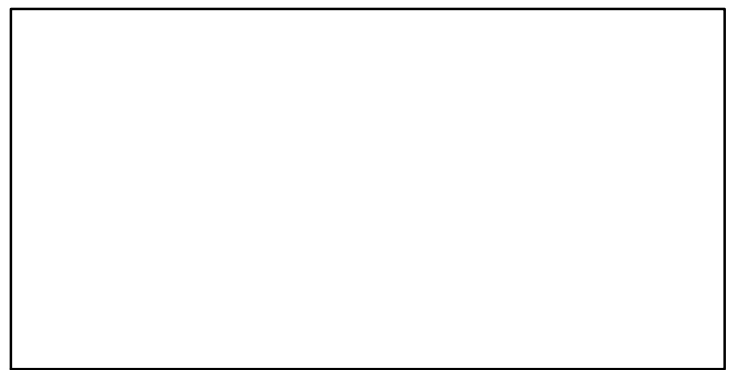
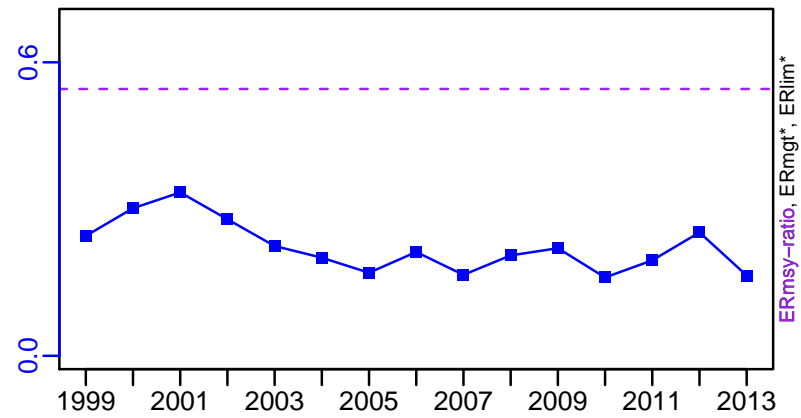
TN *

F*



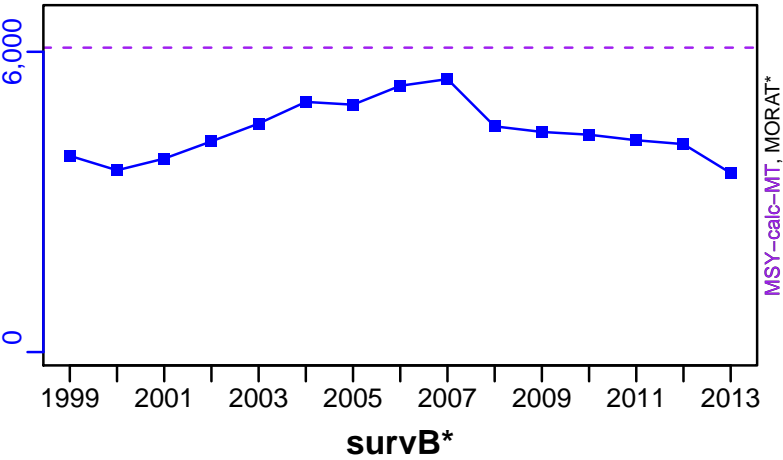
ER-calc-ratio (1999-2015-JPNIMP2016)

Recruits*



Snow crab Sea of Japan West [SNOWCRABWSJ]

TC-MT, TL*, RecC* (1999-2015-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese Spanish mackerel East China Sea [SPANMACKECS]

Metadata	
Scientific Name	Scomberomorus niphonius
Current Assess ID	FAJ-SPANMACKECS-1984-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	12,200		
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*

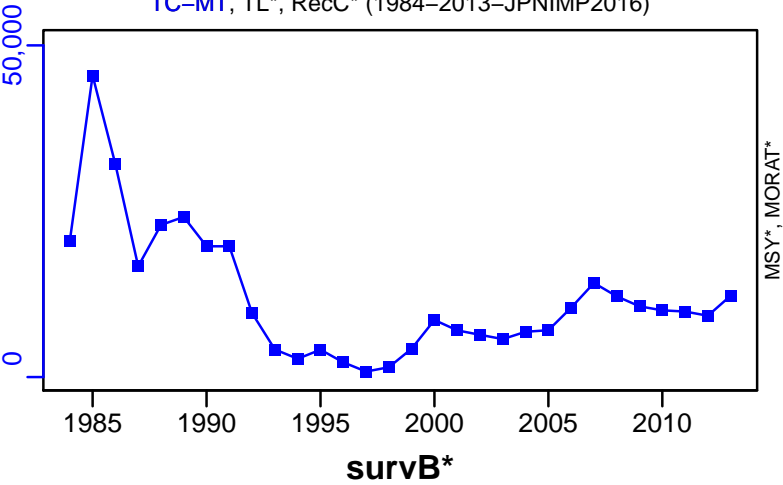


Recruits*



Japanese Spanish mackerel East China Sea [SPANMACK ECS]

TC-MT, TL*, RecC* (1984-2013-JPNIMP2016)



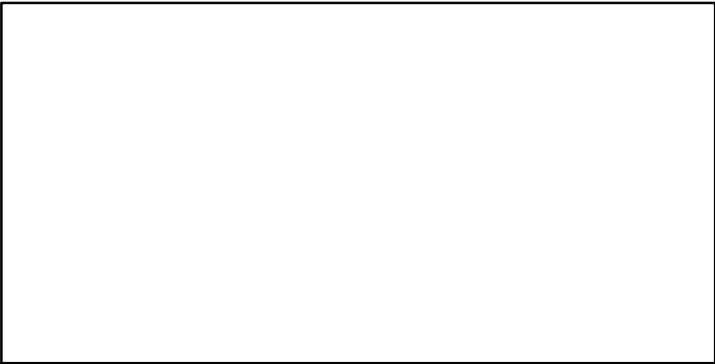
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Japanese Spanish mackerel Inland Sea of Japan [SPANMACKSETO]

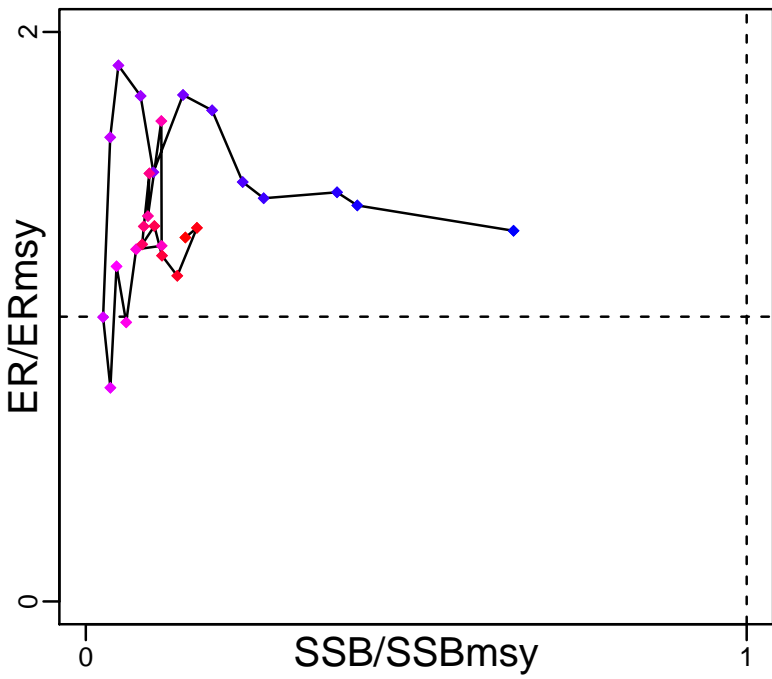
Metadata	
Scientific Name	Scomberomorus niphonius
Current Assess ID	FAJ-SPANMACKSETO-1987-2013-JPNIMP2016
Area	Inland Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	9348
SSBmsy	SSBmsy-MT	2013	16,707
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.28
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	6926
M	M-1/yr	2013	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	3979
Flim	-	-	-
ERlim	-	-	-

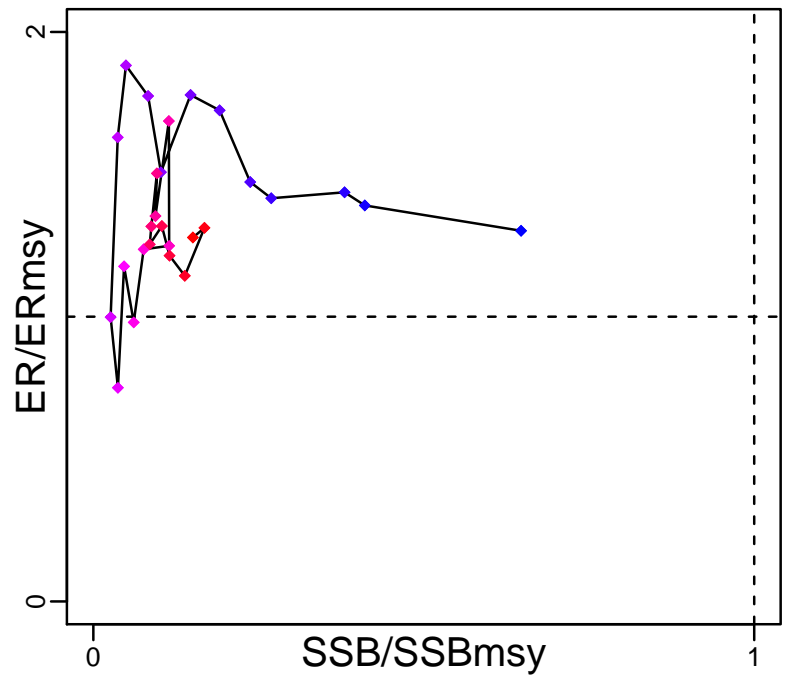
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	4930	-	0
SSB	SSB-MT	2013	2520	Both	1
TN	-	-	-	-	-
R	R-E00	2013	1,410,000	-	0
F	F-1/yr	2010	1	-	0 to 5
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	1780		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.49		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.15		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.28		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese Spanish mackerel Inland Sea of Japan [SPANMACKSETO]

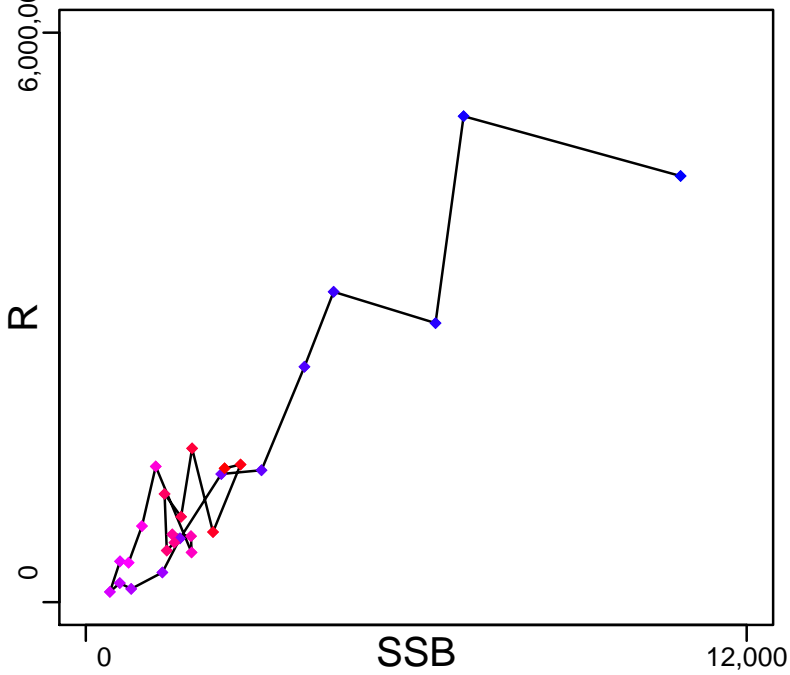
Kobe MSYpref (1987–2013–JPNIMP2016)



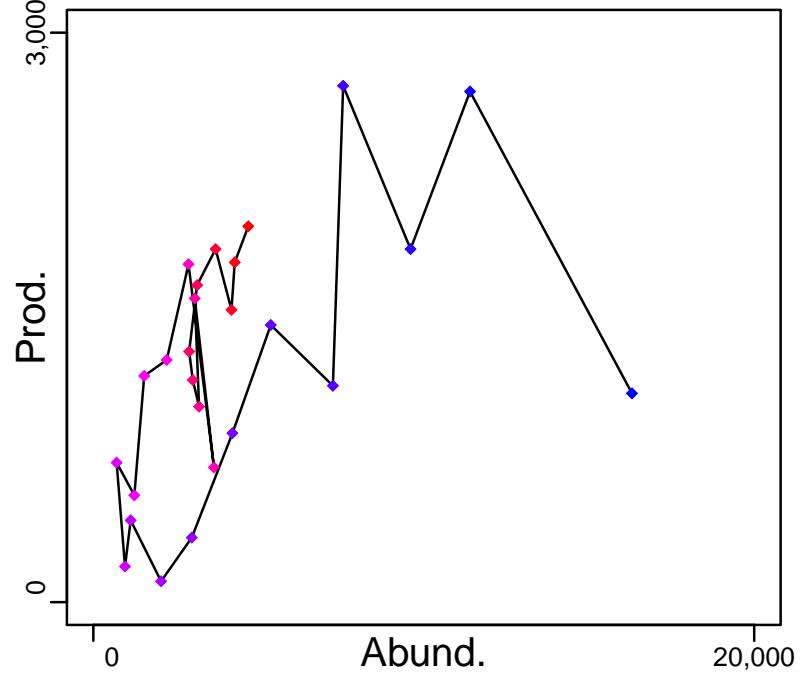
Kobe MGTpref (1987–2013–JPNIMP2016)



Spawner Recruit (1987–2013–JPNIMP2016)



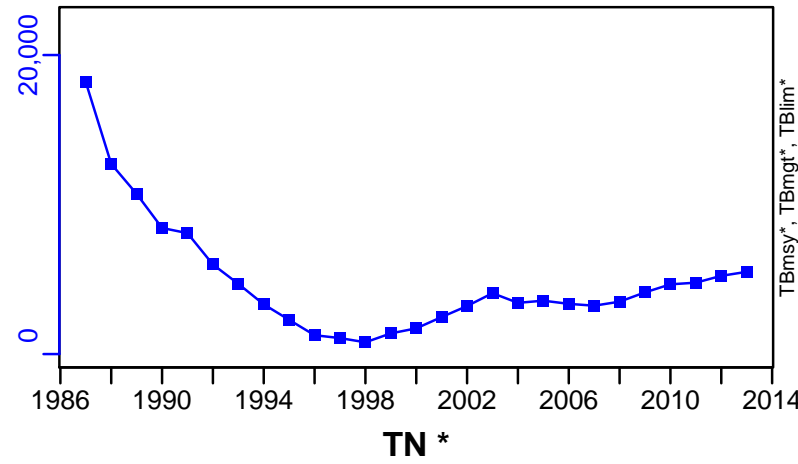
Production (1987–2013–JPNIMP2016)



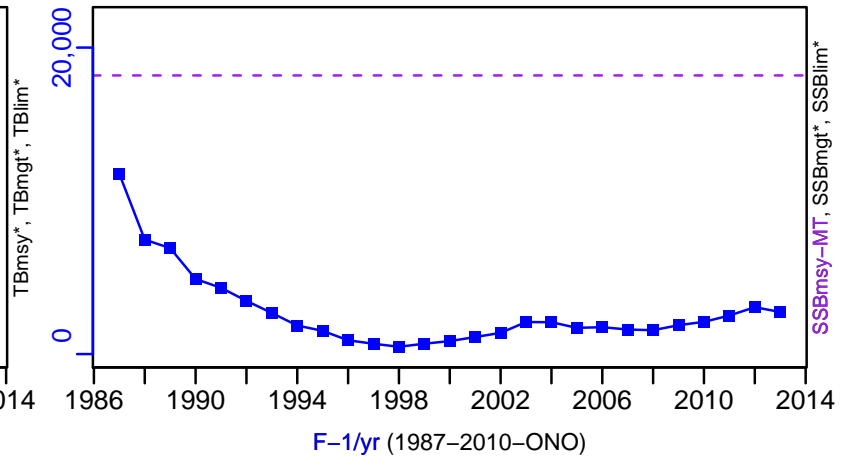
◆ Start Year ◆ End Year * No Data

Japanese Spanish mackerel Inland Sea of Japan [SPANMACKSETO]

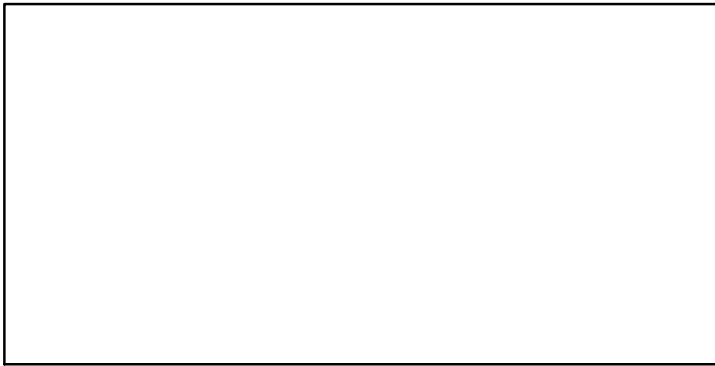
TB-MT (1987–2013–JPNIMP2016)



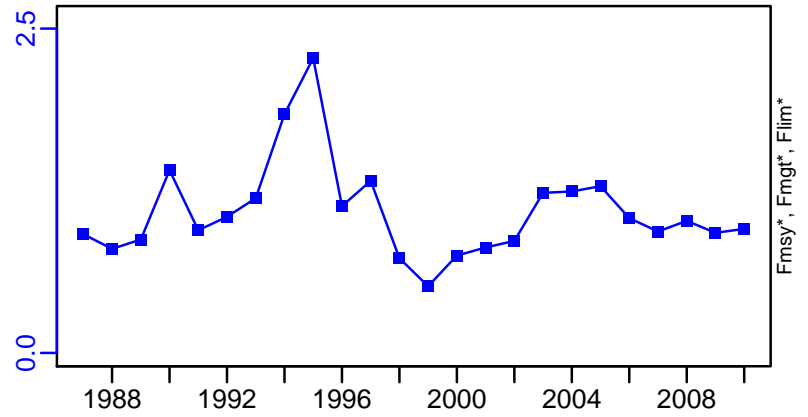
SSB-MT (1987–2013–JPNIMP2016)



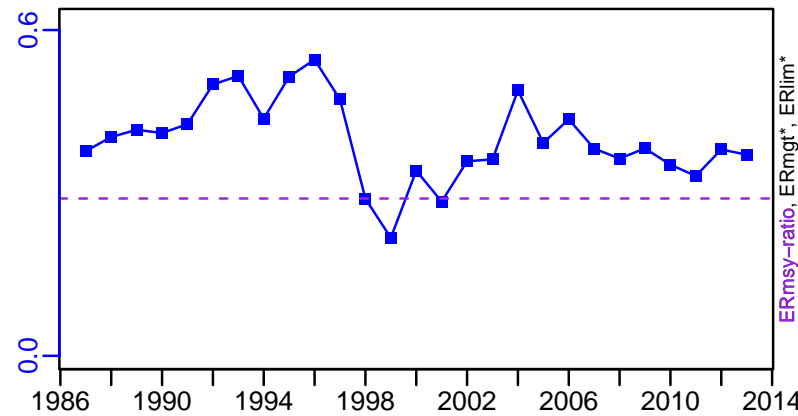
TN *



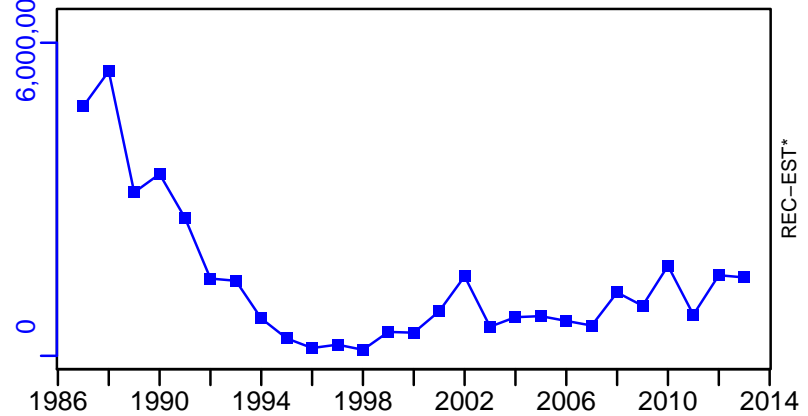
F-1/yr (1987–2010–ONO)



ER-calc-ratio (1987–2013–JPNIMP2016)

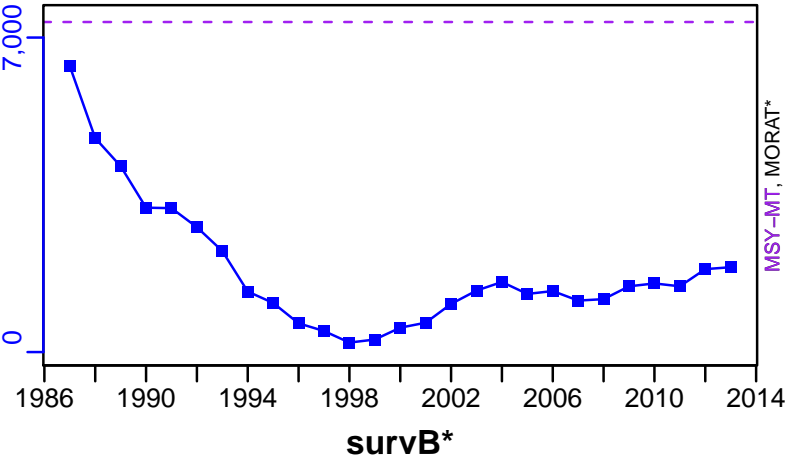


R-E00 (1987–2013–JPNIMP2016)



Japanese Spanish mackerel Inland Sea of Japan [SPANMACKSETO]

TC-MT, TL*, RecC* (1987-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Spear squid Pacific Ocean [SPSQUIDPAC]

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



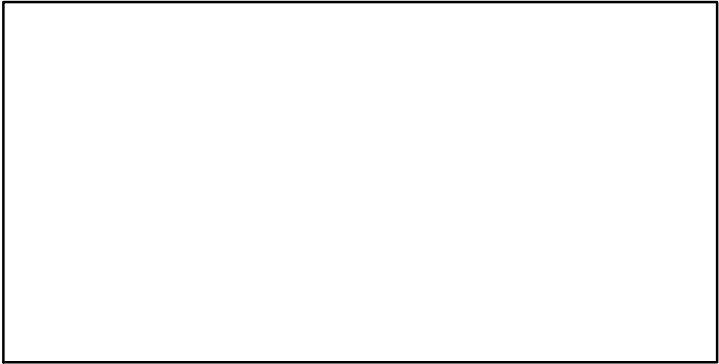
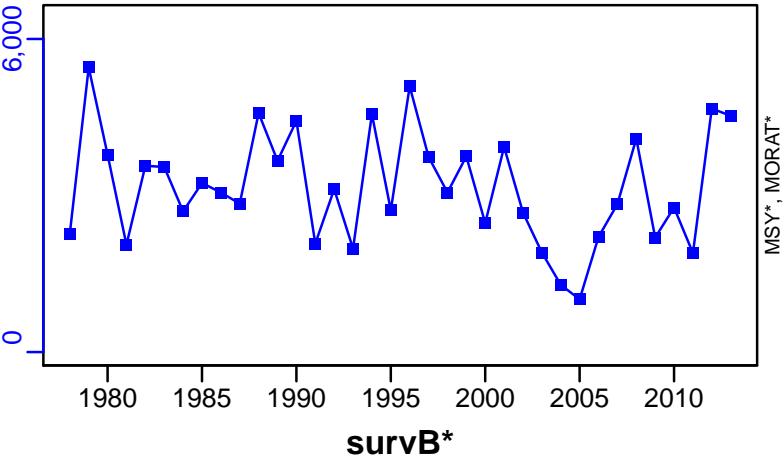
Recruits*



Spear squid Pacific Ocean [SPSQUIDPAC]

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

TAC*, Cpair*, Cadv*



EFFORT*



Spear squid Tsushima warm current [SPSQUIDTSSTWC]

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

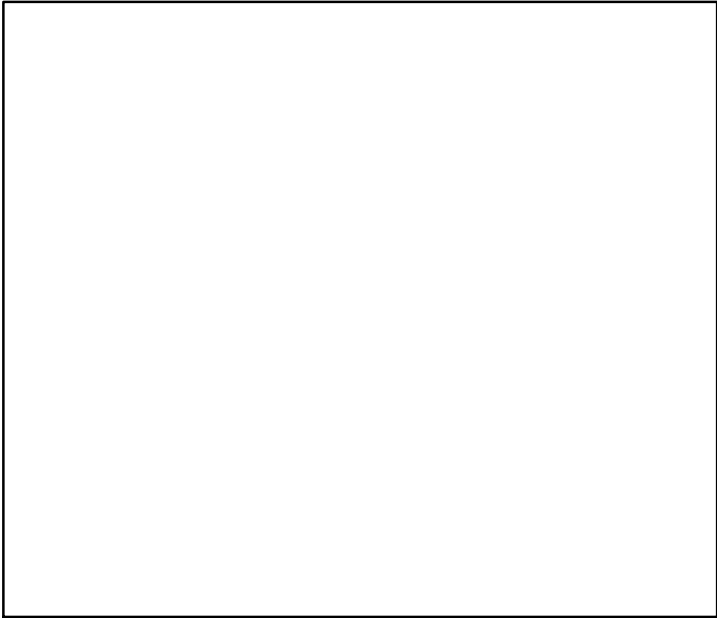
Kobe MSY*



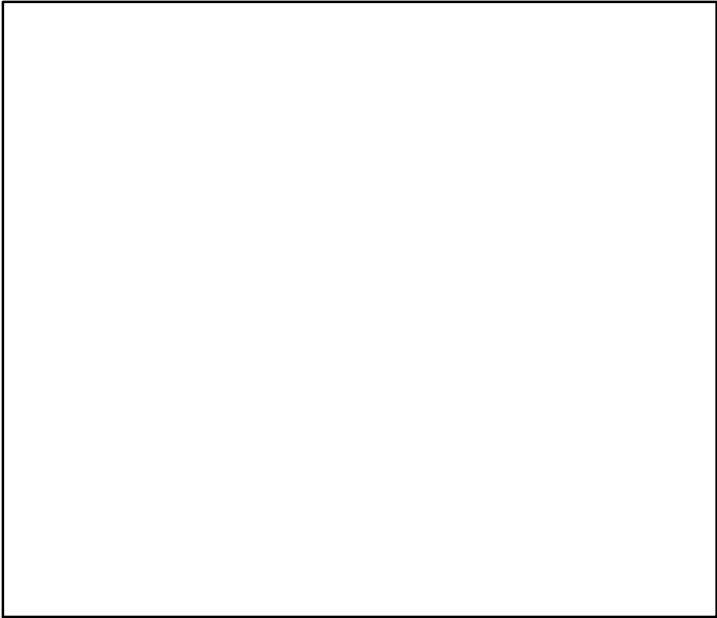
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



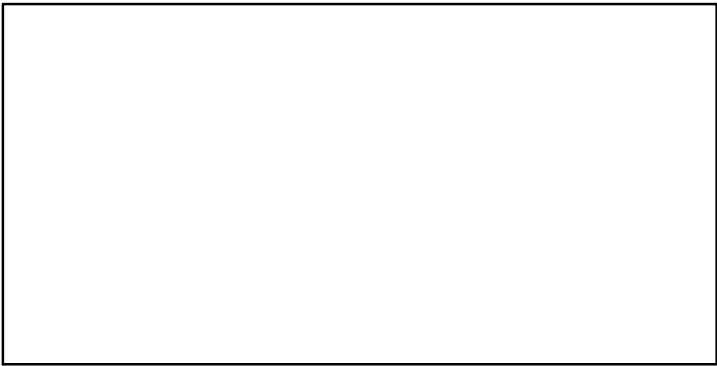
SSB*



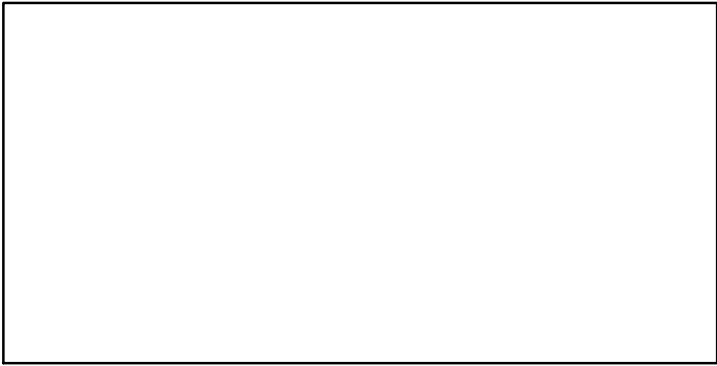
TN *



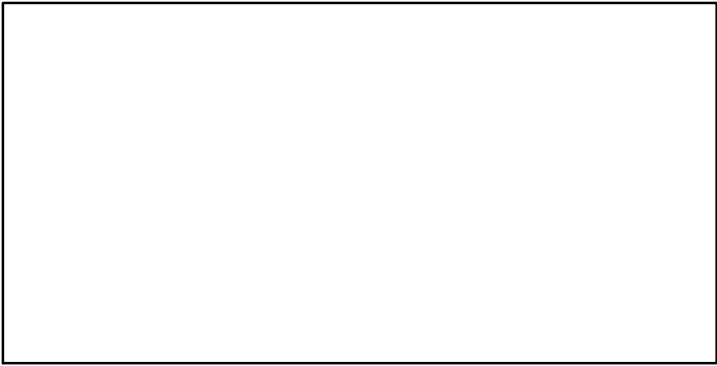
F*



ER*



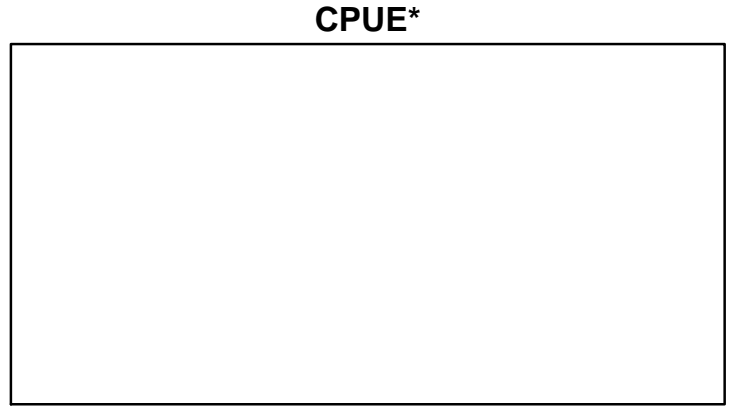
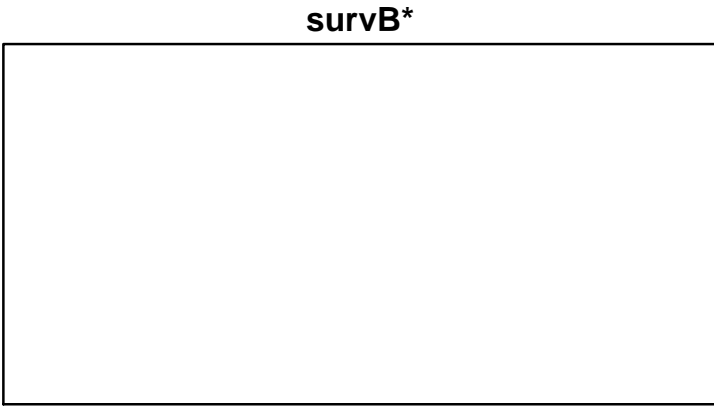
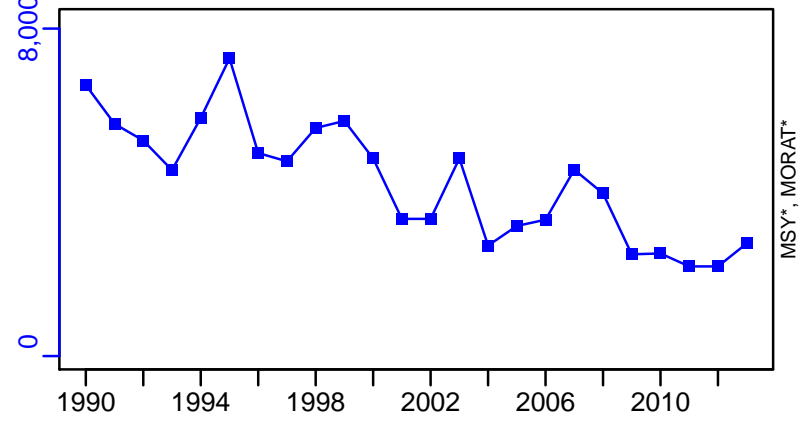
Recruits*



Spear squid Tsushima warm current [SPSQUIDTSSTWC]

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

TAC*, Cpair*, Cadv*



Sailfin sandfish Sea of Japan North [SSANDNSJ]

Metadata	
Scientific Name	Arctoscopus japonicus
Current Assess ID	FAJ-SSANDNSJ-1952-2013-JPNIMP2016
Area	Sea of Japan North
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	M-1/yr	2013	0.5
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2740		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

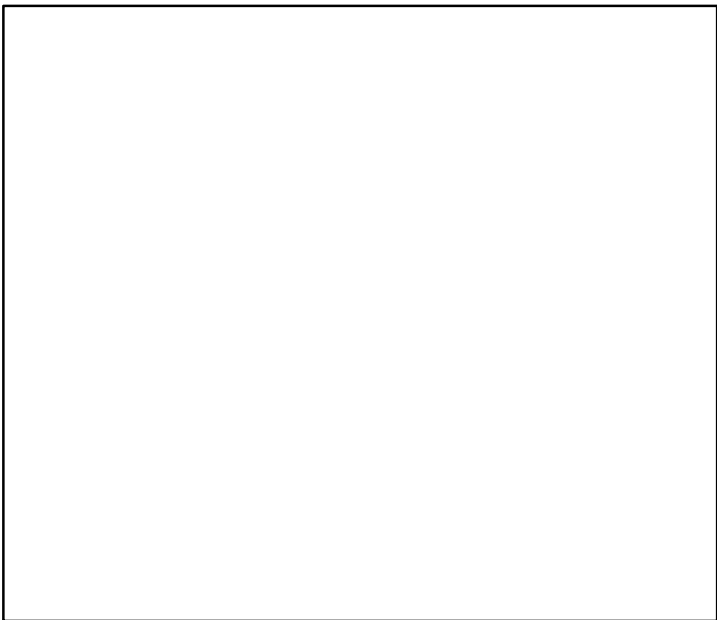
Kobe MSY*



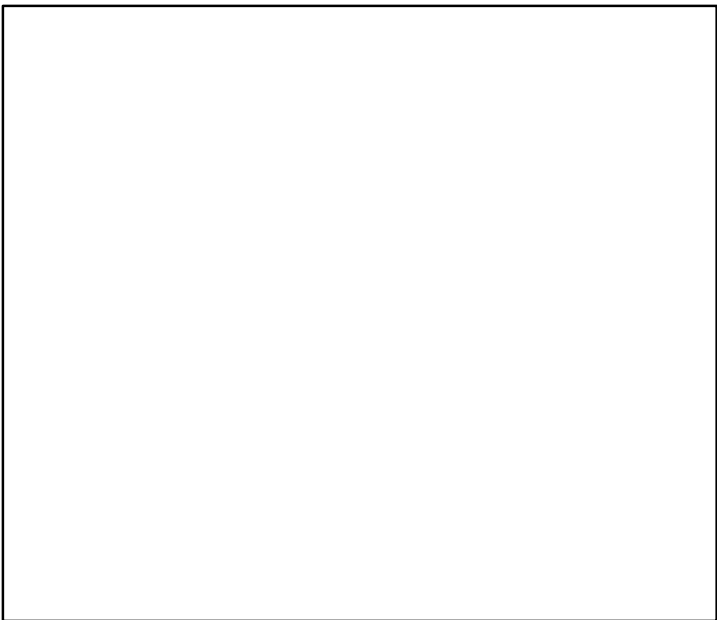
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Sailfin sandfish Sea of Japan North [SSANDNSJ]

TB*



SSB*



TN *



F*



ER*

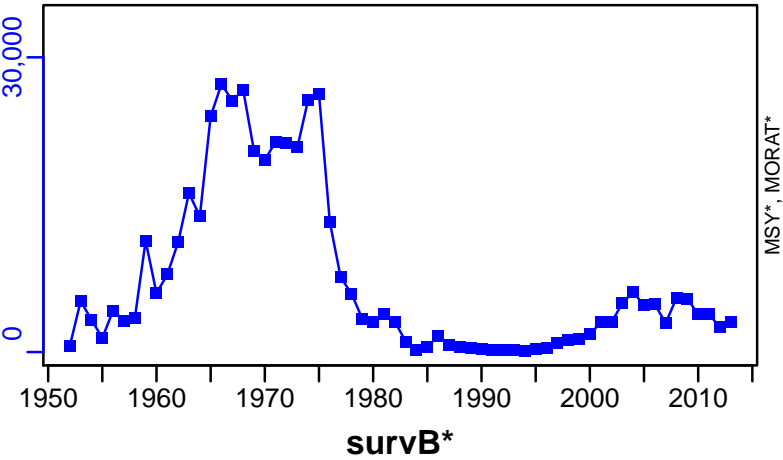


Recruits*



Sailfin sandfish Sea of Japan North [SSANDNSJ]

TC-MT, TL*, RecC* (1952-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Sailfin sandfish Sea of Japan West [SSANDWSJ]

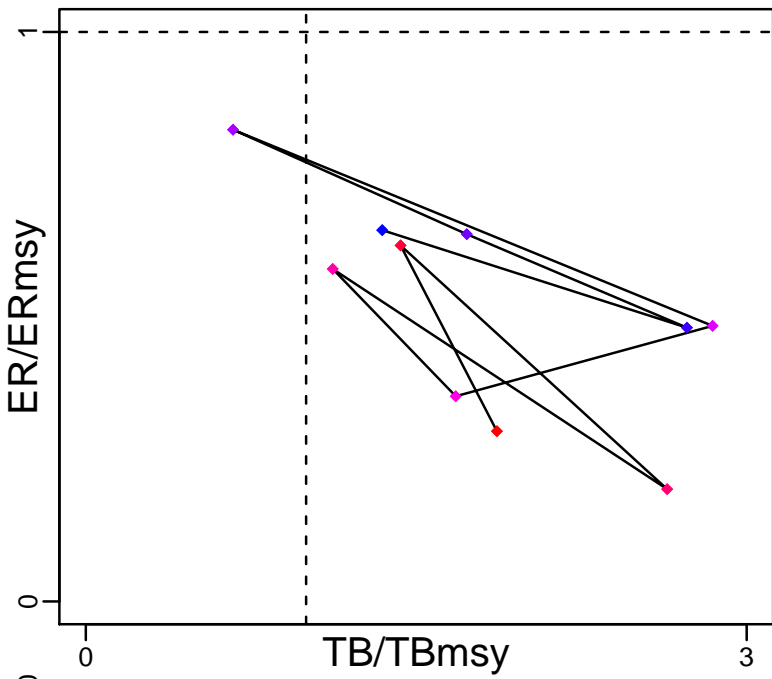
Metadata	
Scientific Name	Arctoscopus japonicus
Current Assess ID	FAJ-SSANDWSJ-1970-2013-JPNIMP2016
Area	Sea of Japan West
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	13,230
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.51
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	6694
M	M-1/yr	2013	0.5
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

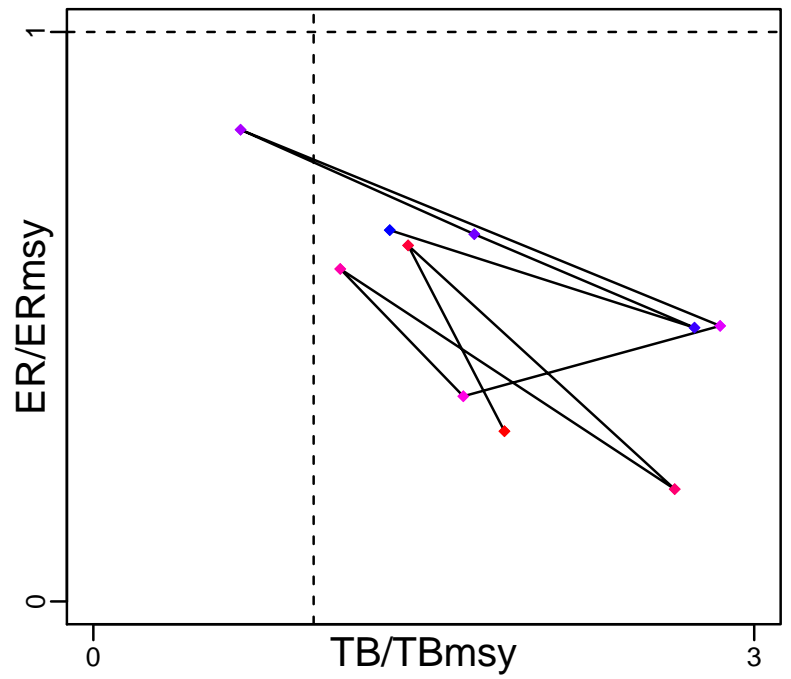
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	24,700	-	1
SSB	SSB-MT	2013	7850	Both	2
TN	-	-	-	-	-
R	R-E00	2013	5.76×10^8	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	3730		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.87		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.3		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sailfin sandfish Sea of Japan West [SSANDWSJ]

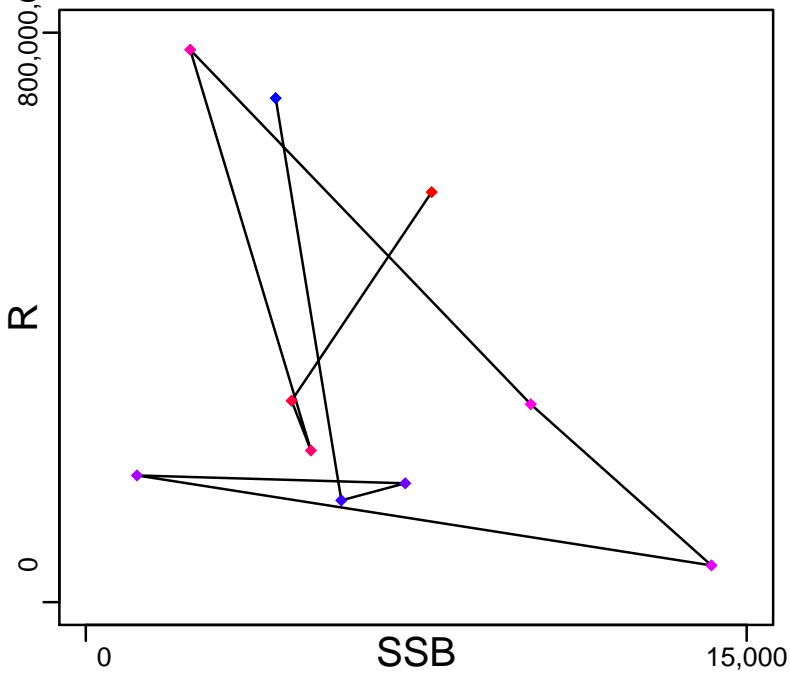
Kobe MSYpref (1970–2013–JPNIMP2016)



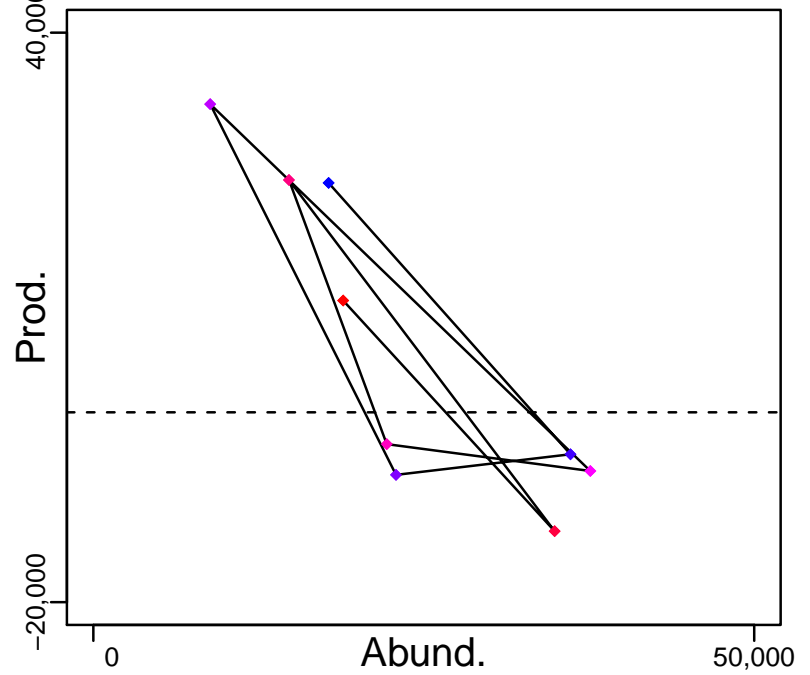
Kobe MGTpref (1970–2013–JPNIMP2016)



Spawner Recruit (1970–2013–JPNIMP2016)



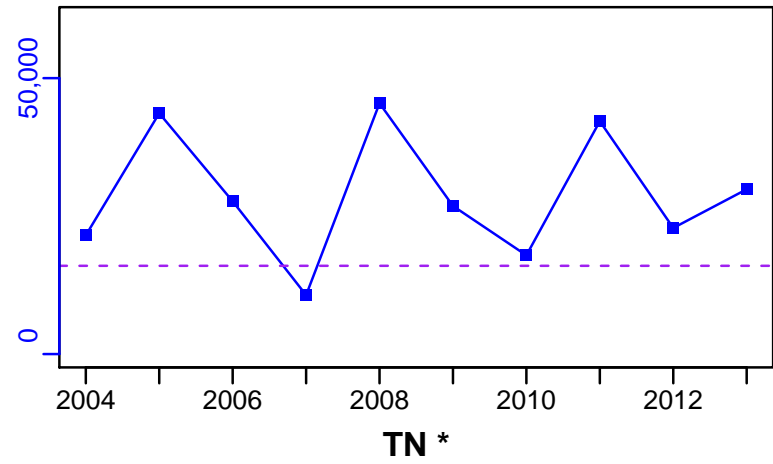
Production (1970–2013–JPNIMP2016)



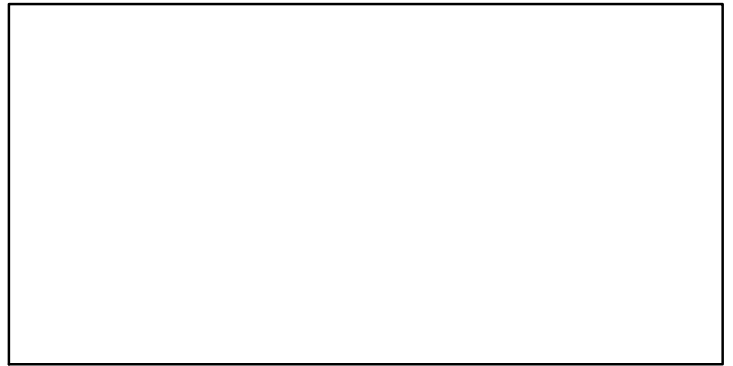
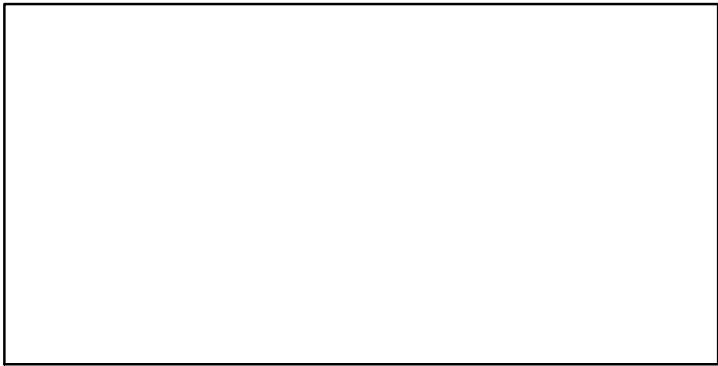
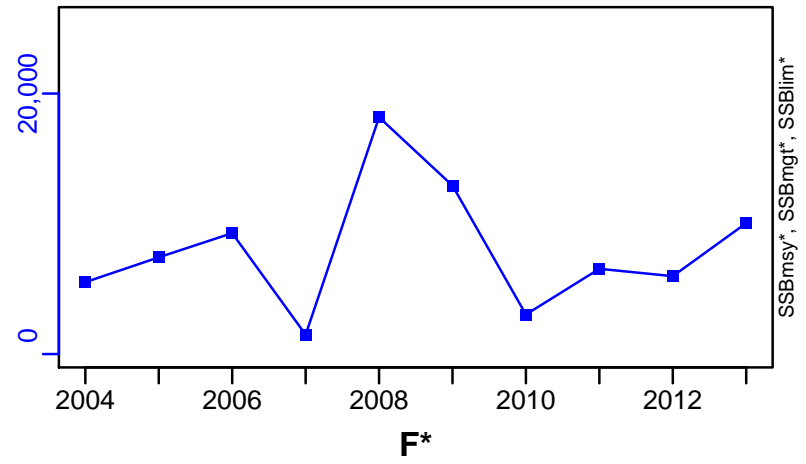
◆ Start Year ◆ End Year * No Data

Sailfin sandfish Sea of Japan West [SSANDWSJ]

TB-MT (1970-2013-JPNIMP2016)



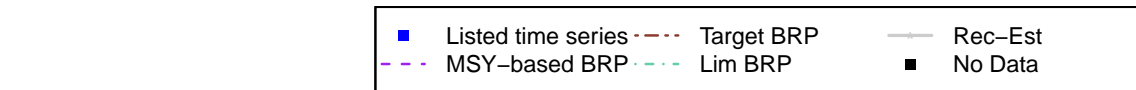
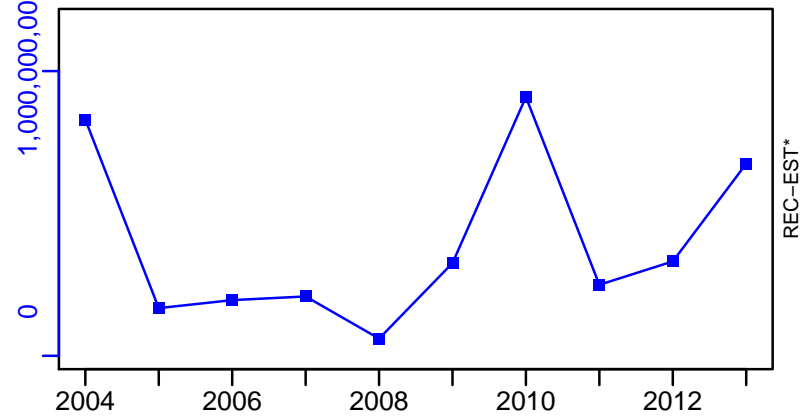
SSB-MT (1970-2013-JPNIMP2016)



ER-calc-ratio (1970-2013-JPNIMP2016)

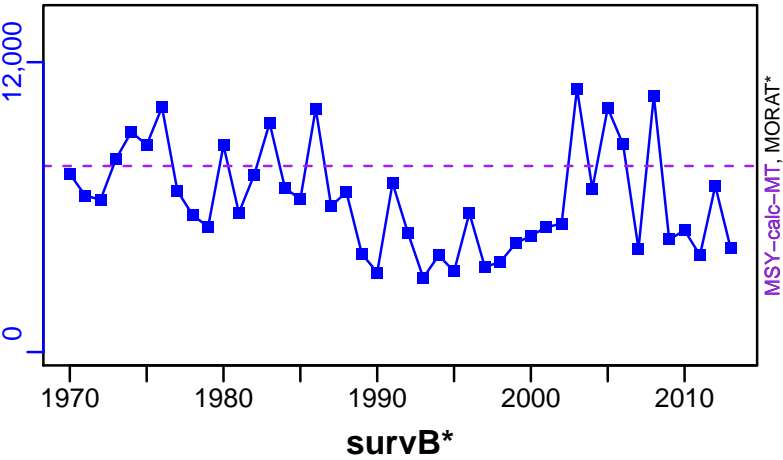


R-E00 (1970-2013-JPNIMP2016)



Sailfin sandfish Sea of Japan West [SSANDWSJ]

TC-MT, TL*, RecC* (1970-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

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

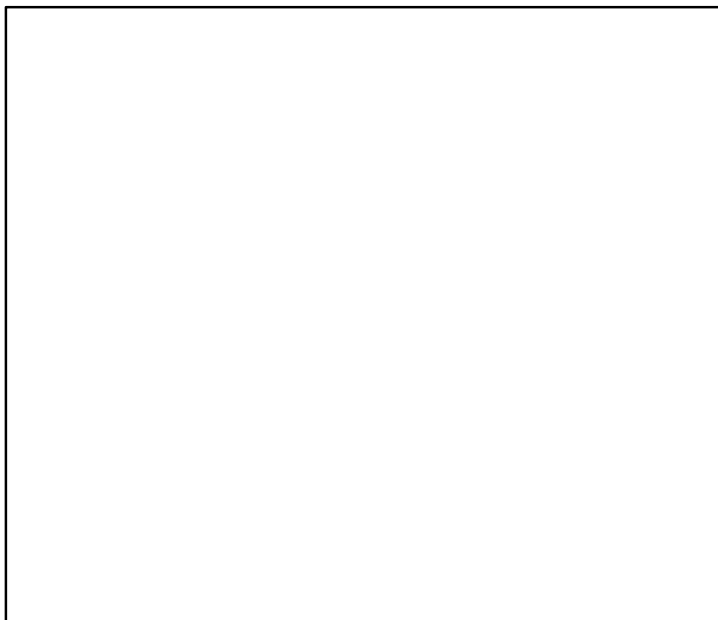
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

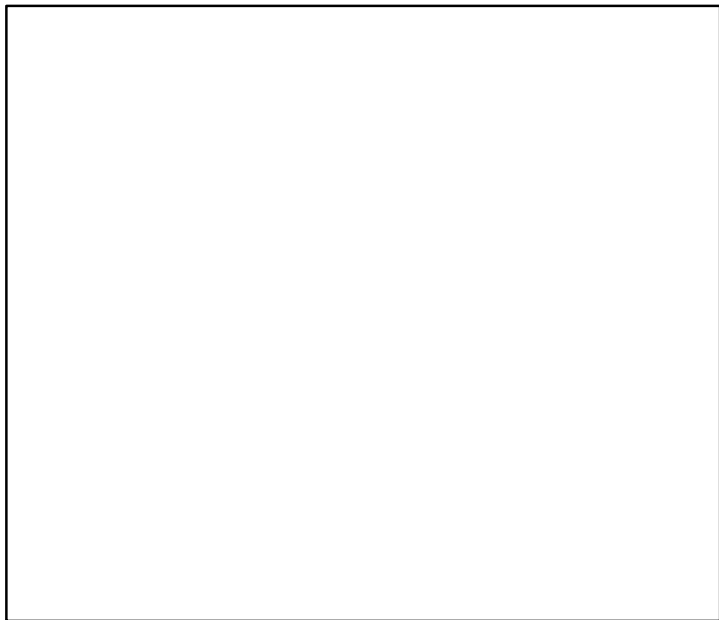
Kobe MSY*



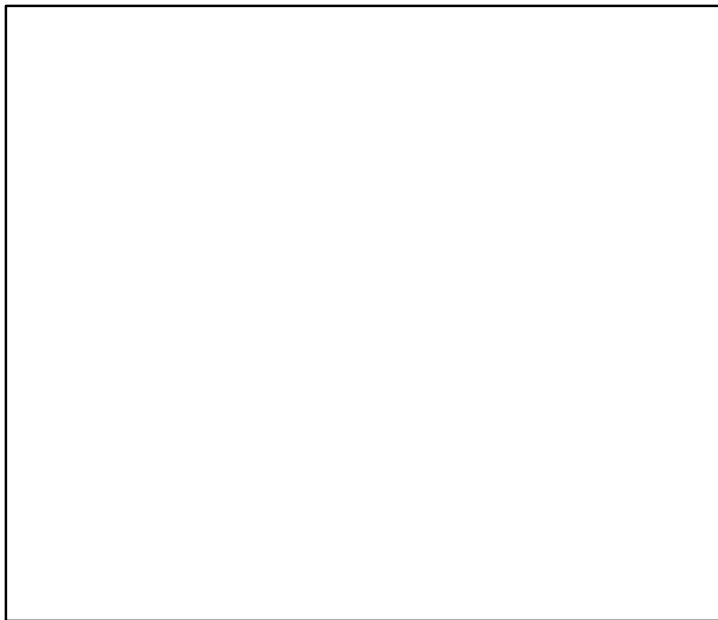
Kobe MGT*



Spawner Recruit*



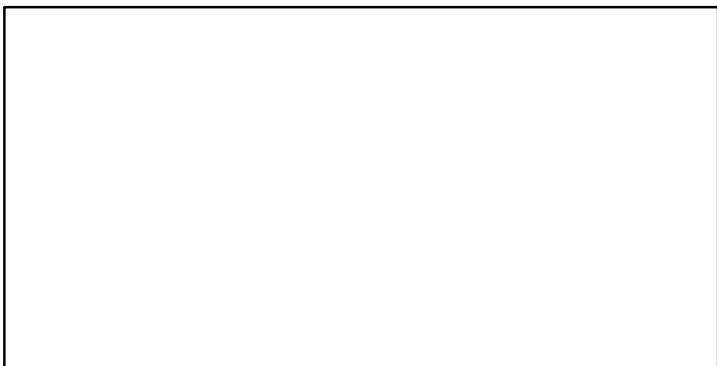
Production*



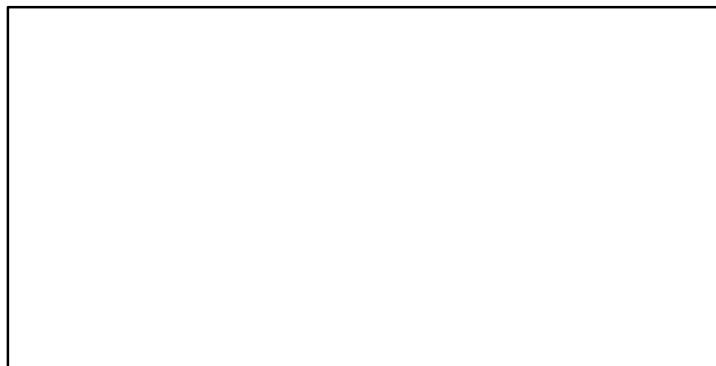
◆ Start Year ◆ End Year * No Data

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

TB*



SSB*



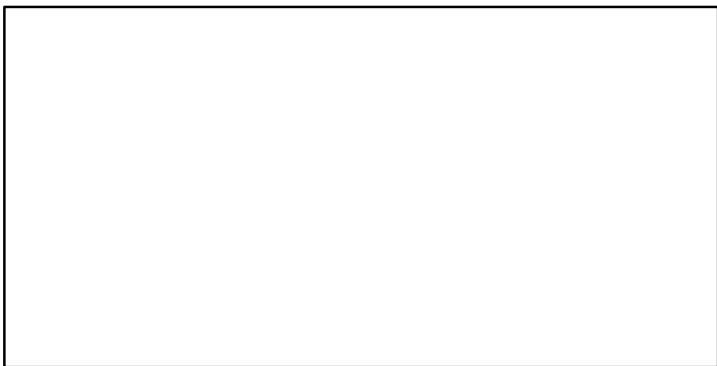
TN *



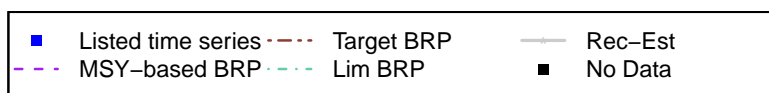
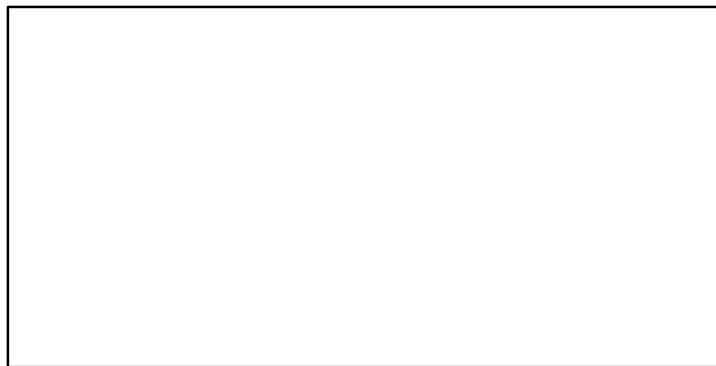
F*



ER*



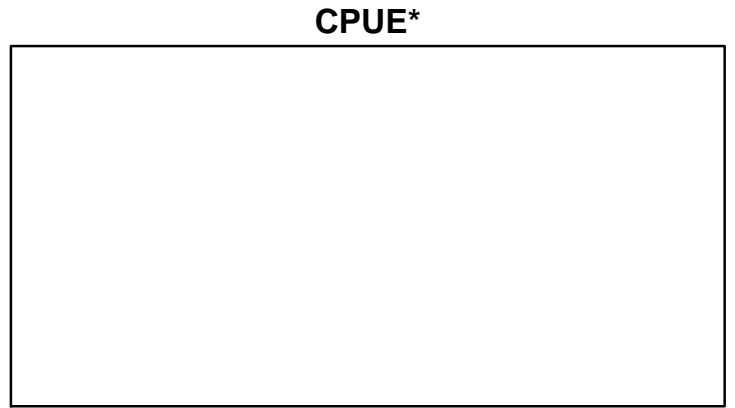
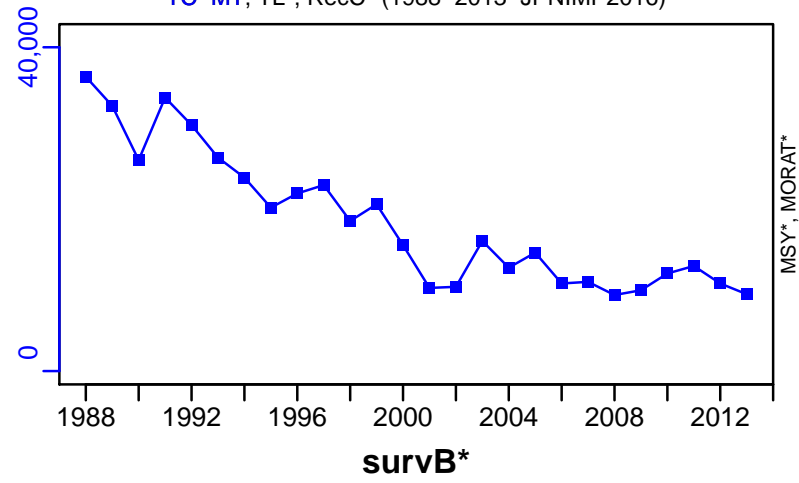
Recruits*



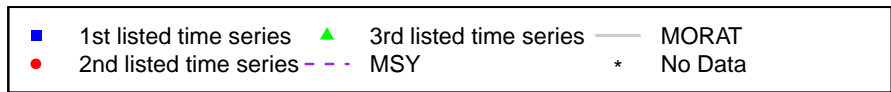
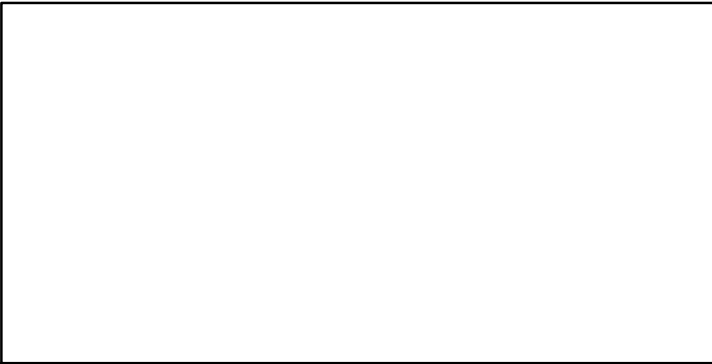
Swordtip squid Sea of Japan and East China Sea [STSQUIDSOJECS]

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

TAC*, Cpair*, Cadv*



EFFORT*



Willow flounder North Pacific [WLFLOUNNPAC]

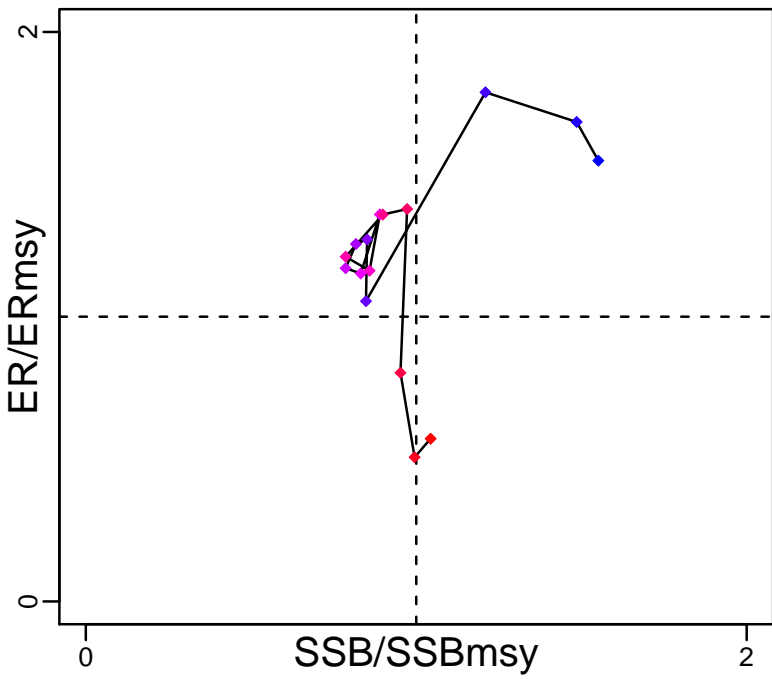
Metadata	
Scientific Name	Tanakius kitaharae
Current Assess ID	FAJ-WLFLOUNNPAC-1997-2013-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	536
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.21
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	145
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

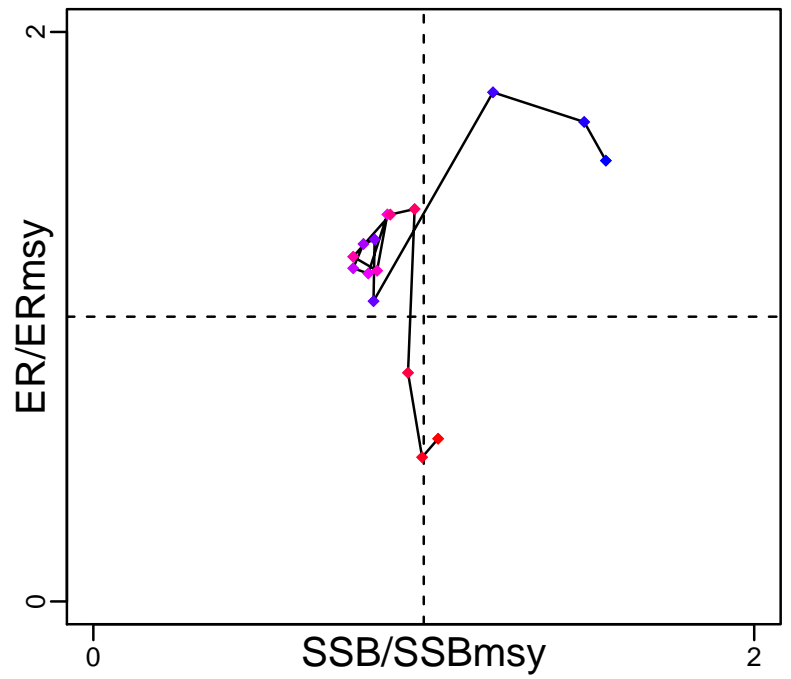
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	673	-	1
SSB	SSB-MT	2013	559	Both	3
TN	-	-	-	-	-
R	R-E00	2013	2,270,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	80		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.04		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.57		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Willowy flounder North Pacific [WLFLOUNNPAC]

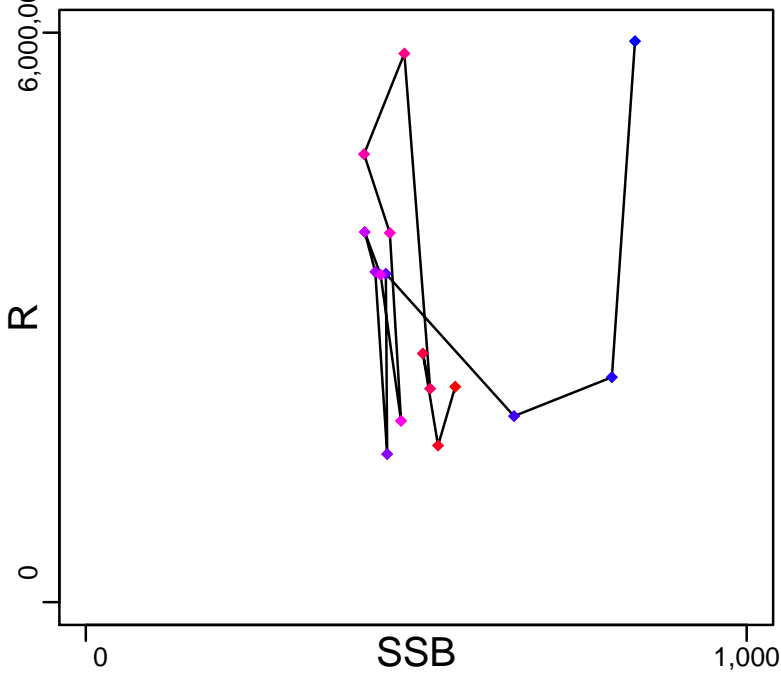
Kobe MSYpref (1997–2013–JPNIMP2016)



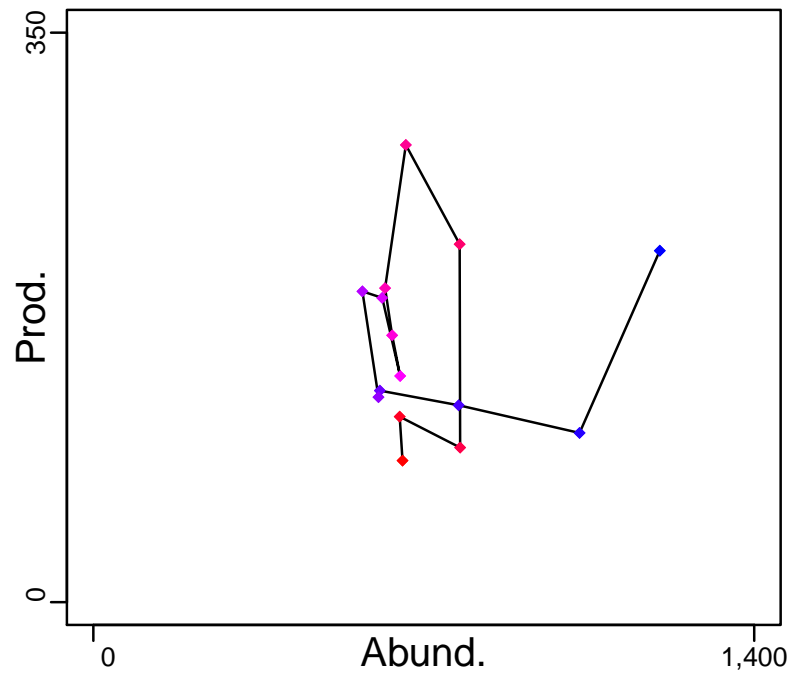
Kobe MGTpref (1997–2013–JPNIMP2016)



Spawner Recruit (1997–2013–JPNIMP2016)



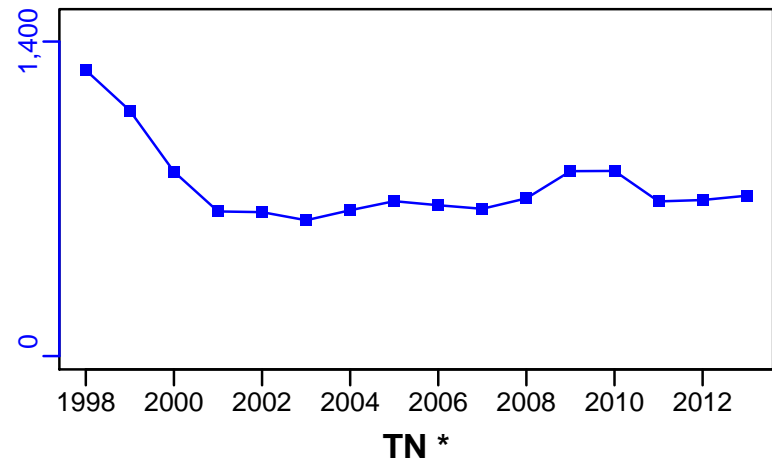
Production (1997–2013–JPNIMP2016)



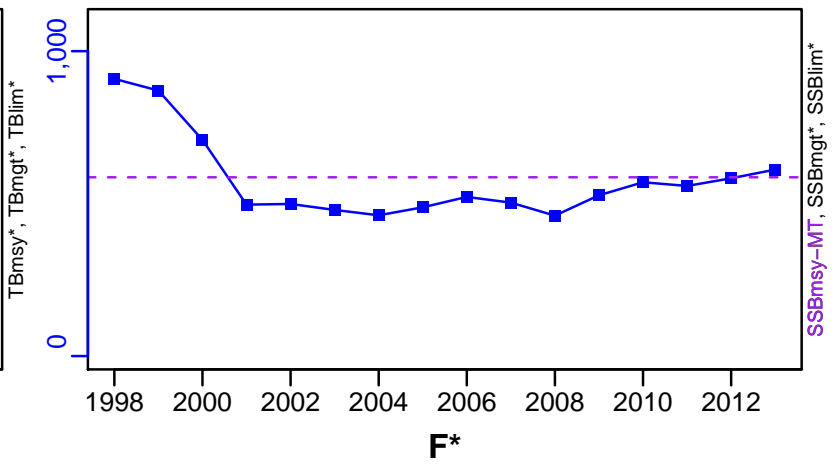
◆ Start Year ◆ End Year * No Data

Willow flounder North Pacific [WLFLOUNNPAC]

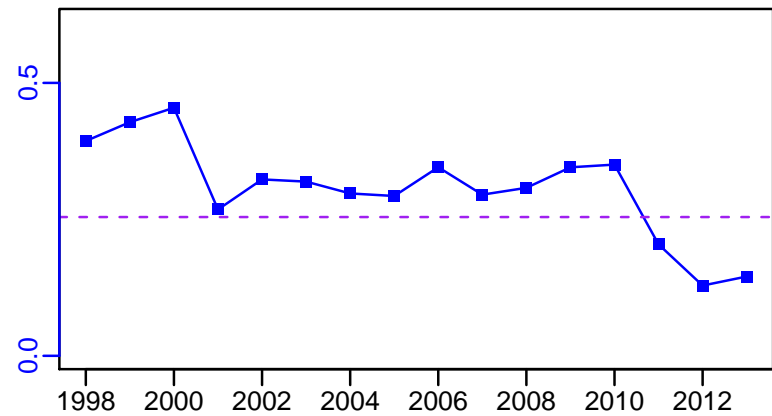
TB-MT (1997-2013-JPNIMP2016)



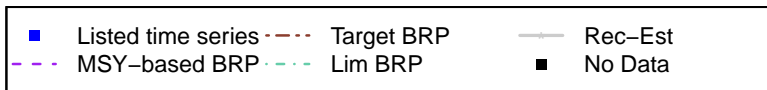
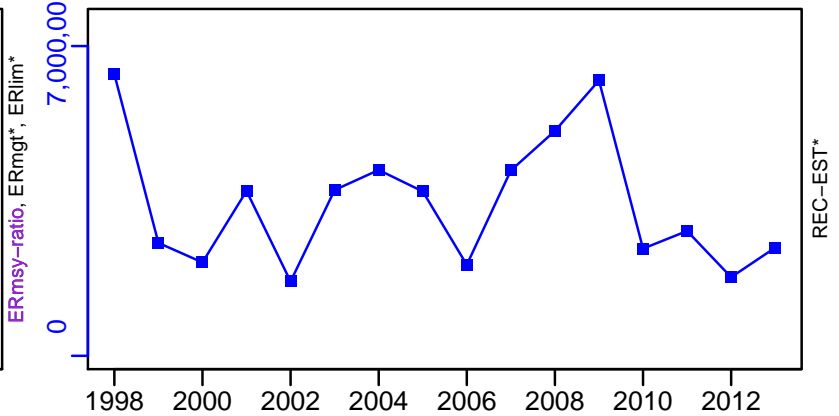
SSB-MT (1997-2013-JPNIMP2016)



ER-calc-ratio (1997-2013-JPNIMP2016)

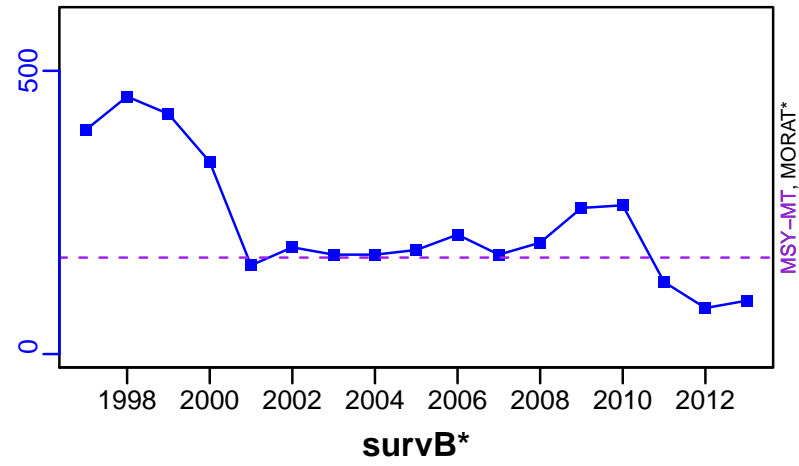


R-E00 (1997-2013-JPNIMP2016)

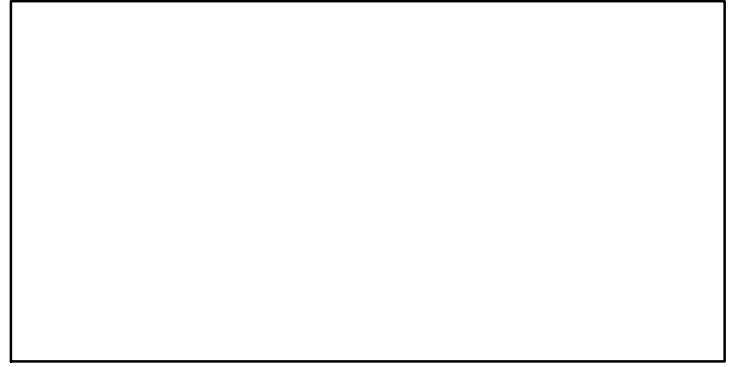


Willowy flounder North Pacific [WLFLOUNNPAC]

TC-MT, TL*, RecC* (1997-2013-JPNIMP2016)



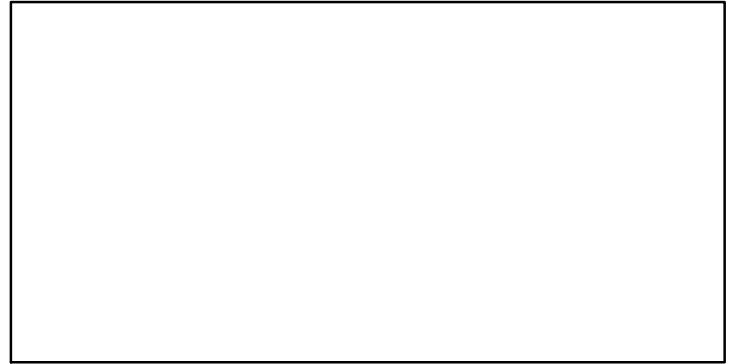
TAC*, Cpair*, Cadv*



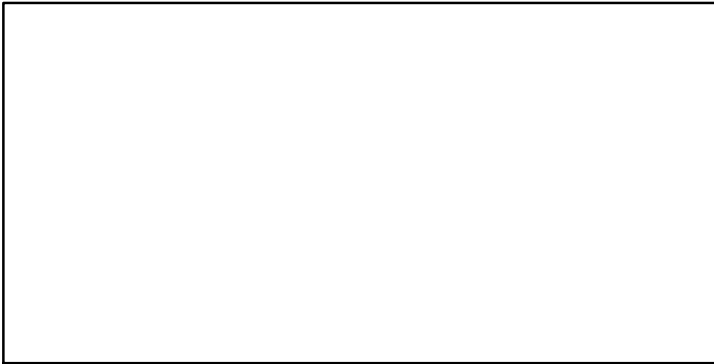
survB*



CPUE*



EFFORT*



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

Walleye Pollock Navarinsky [WPOLLNAVAR]

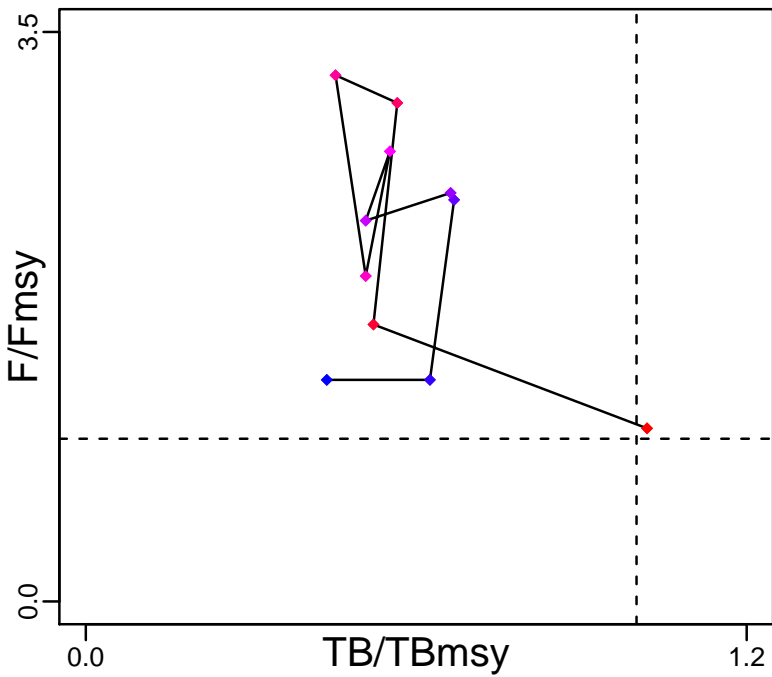
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	VNIRO-WPOLLNAVAR-1994-2004-JENSEN
Area	Navarinsky
Management Authority	Russian Federal Fisheries Agency, Russia national management
Assessor	Russian Federal Research Institute of Fisheries and Oceanography
Asmts in RAM	2004

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2004	1,570,000
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2004	0.24
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

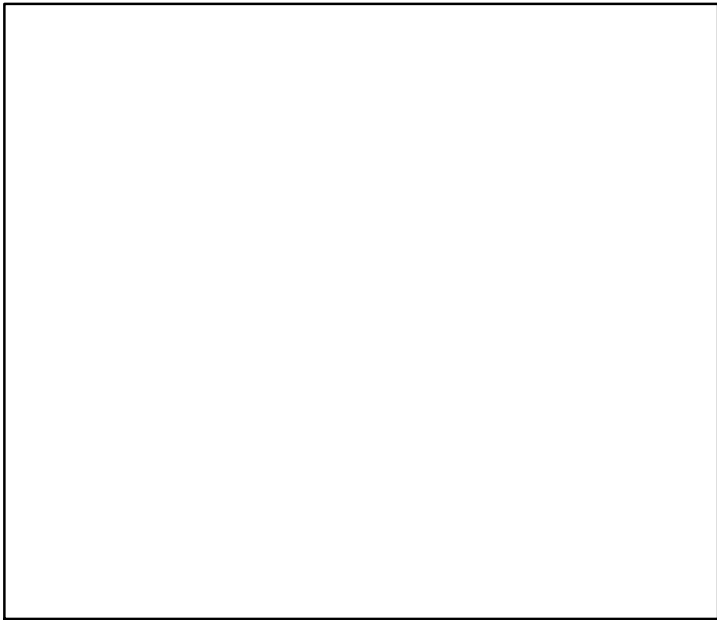
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2004	1,600,000	-	2+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2004	0	-	3 to 6
ER	ER-ratio	2004	0	-	-
TC	TC-MT	2004	380,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2004	1.02		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2004	1.06		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye Pollock Navarinsky [WPOLLNAVAR]

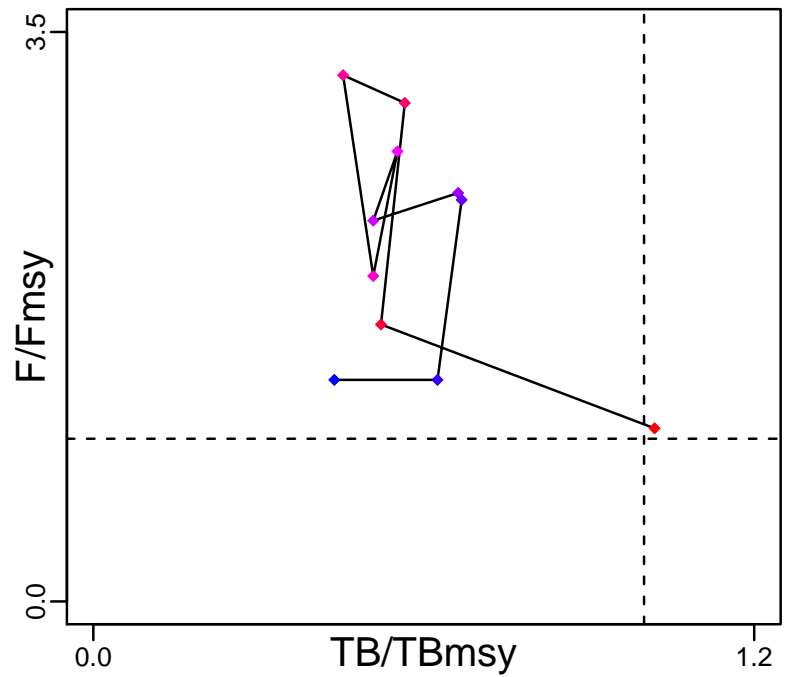
Kobe MSYpref (1994–2004–JENSEN)



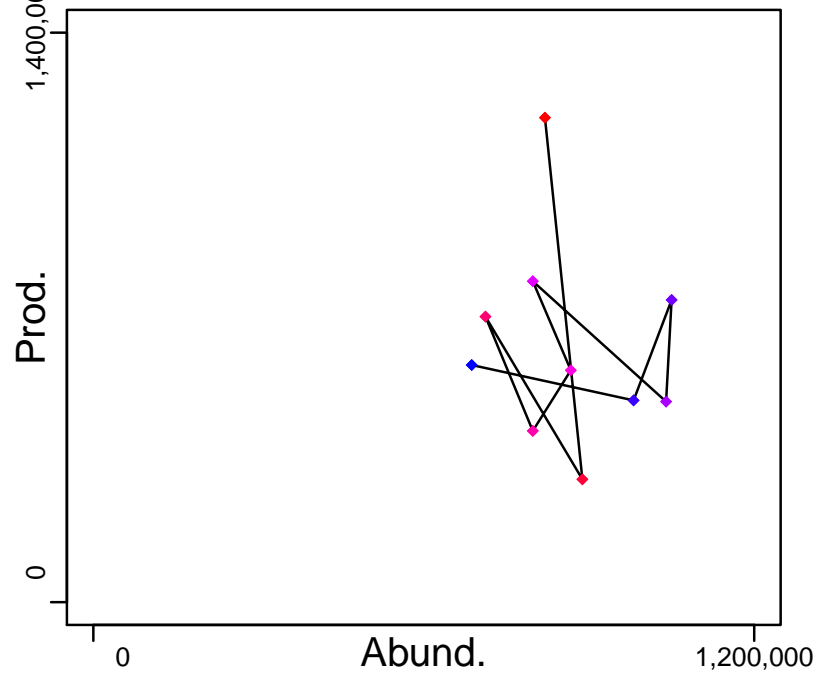
Spawner Recruit*



Kobe MGTpref (1994–2004–JENSEN)



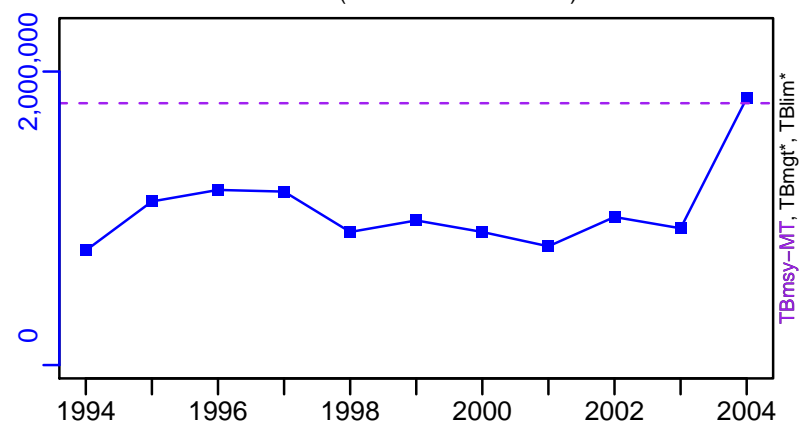
Production (1994–2004–JENSEN)



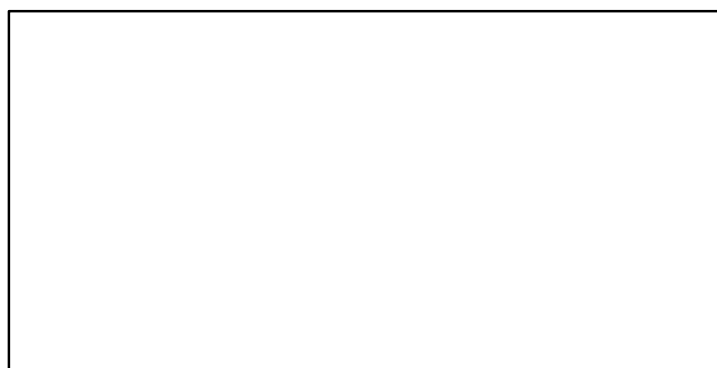
◆ Start Year ◆ End Year * No Data

Walleye Pollock Navarinsky [WPOLLNAVAR]

TB-MT (1994-2004-JENSEN)



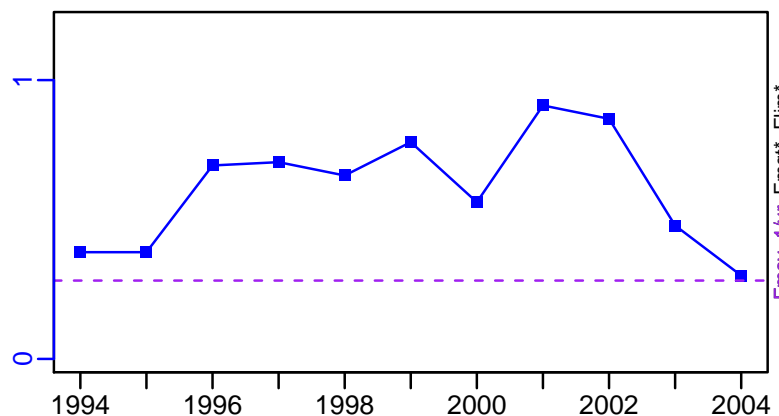
SSB*



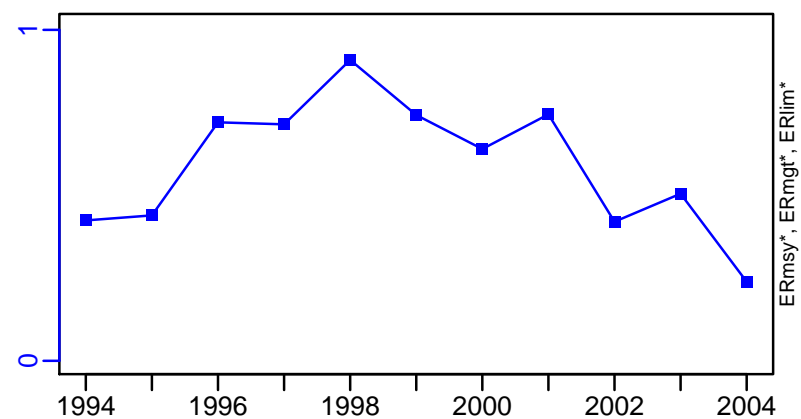
TN *



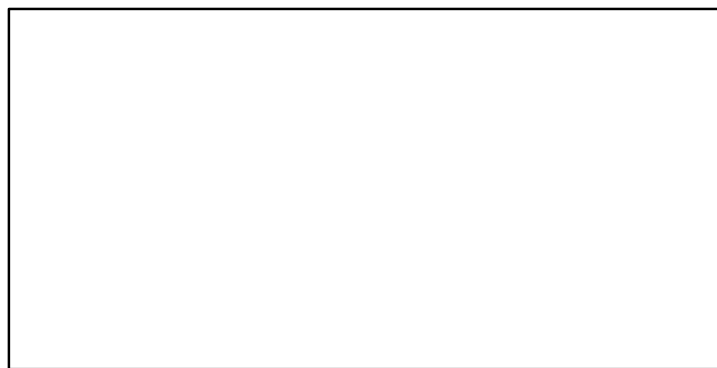
F-1/yr (1994-2004-JENSEN)



ER-ratio (1994-2004-JENSEN)

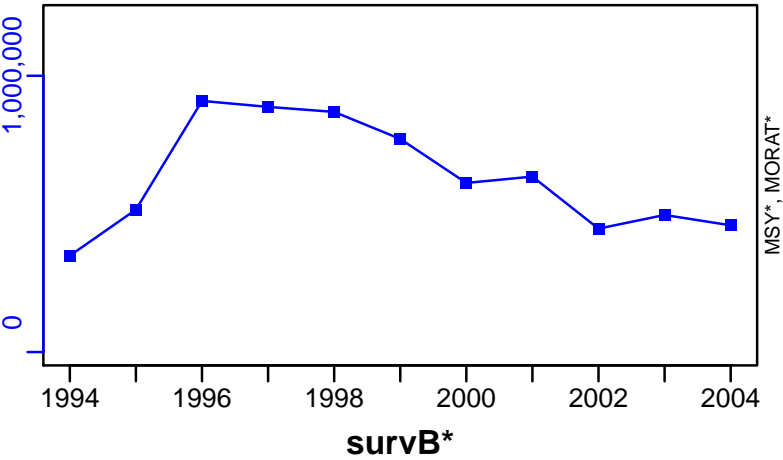


Recruits*



Walleye Pollock Navarinsky [WPOLLNAVAR]

TC-MT, TL*, RecC* (1994-2004-JENSEN)



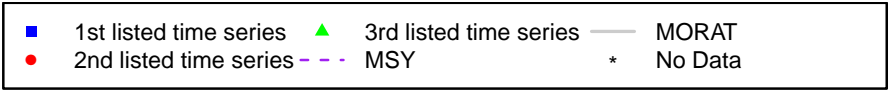
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Walleye pollock Northern Sea of Okhotsk [WPOLLNSO]

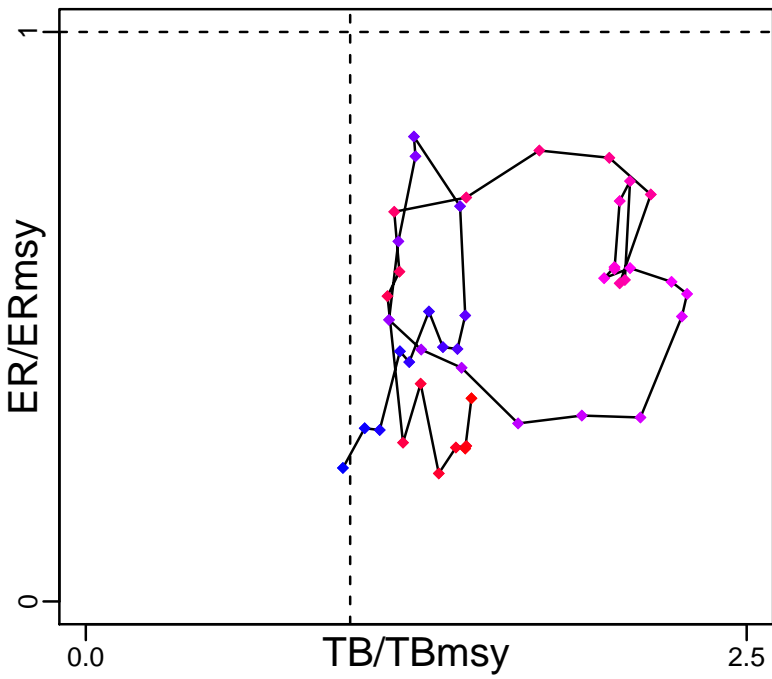
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	VNIRO-WPOLLNSO-1963-2012-CHING
Area	Northern Sea of Okhotsk
Management Authority	Russian Federal Fisheries Agency, Russia national management
Assessor	Russian Federal Research Institute of Fisheries and Oceanography
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2012	5,100,000
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2012	0.3
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

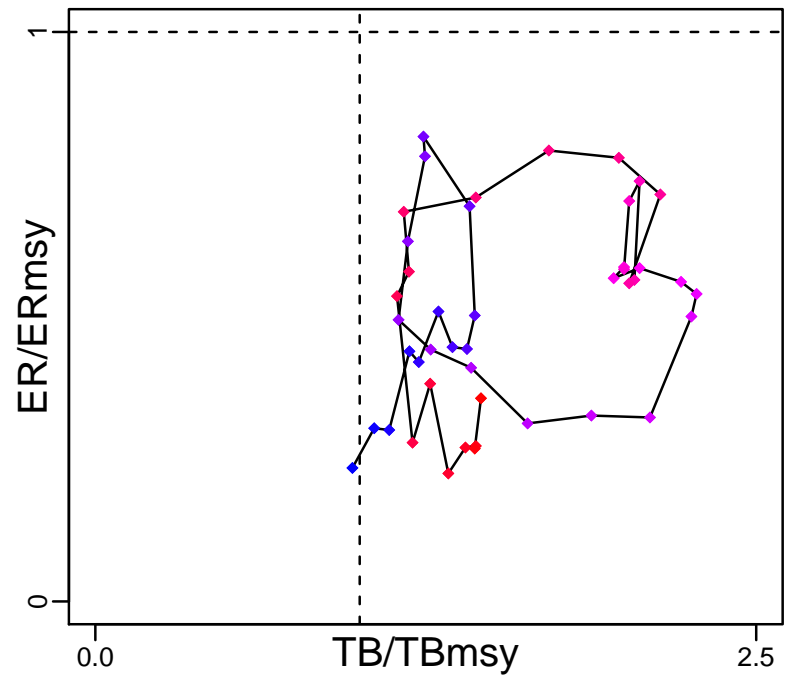
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	7,020,000	-	-
SSB	SSB-MT	2012	4,960,000	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	678,000	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-MT	2012	1.38	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/Fmsy-1/yr	2012	0.36	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Walleye pollock Northern Sea of Okhotsk [WPOLLNSO]

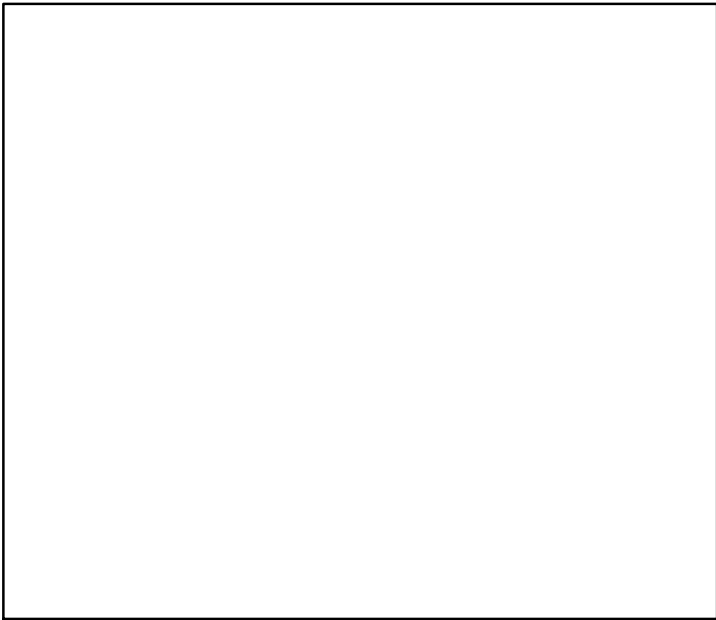
Kobe MSYpref (1963–2012–CHING)



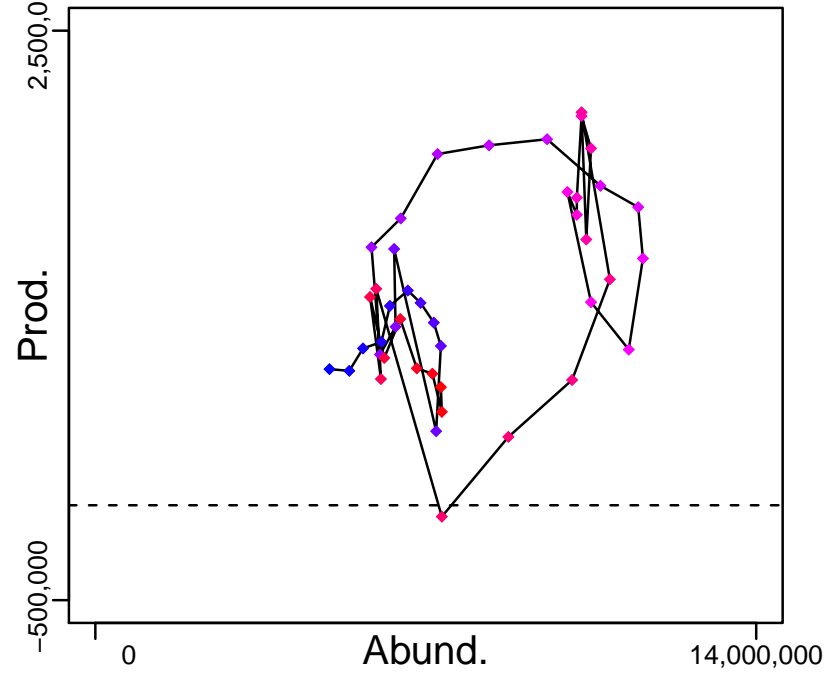
Kobe MGTpref (1963–2012–CHING)



Spawner Recruit*



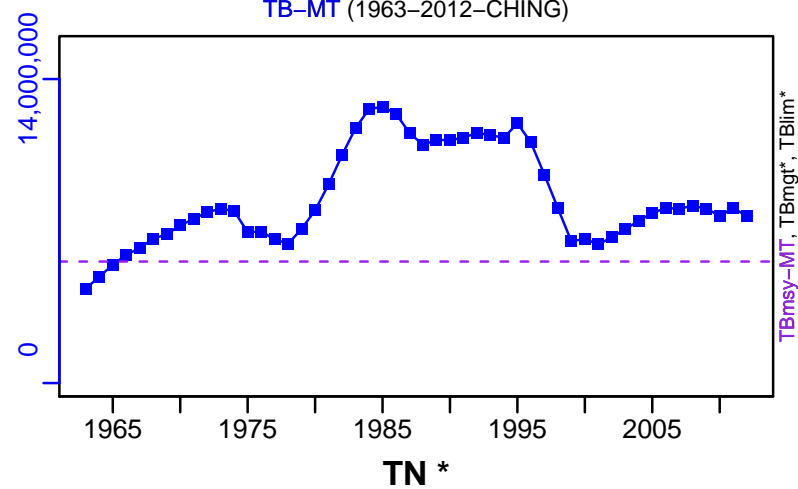
Production (1963–2012–CHING)



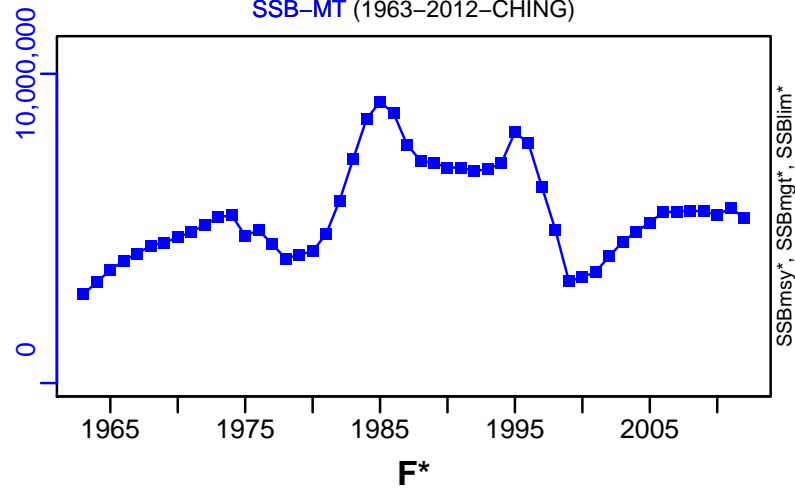
◆ Start Year ◆ End Year * No Data

Walleye pollock Northern Sea of Okhotsk [WPOLLNSO]

TB-MT (1963-2012-CHING)



SSB-MT (1963-2012-CHING)

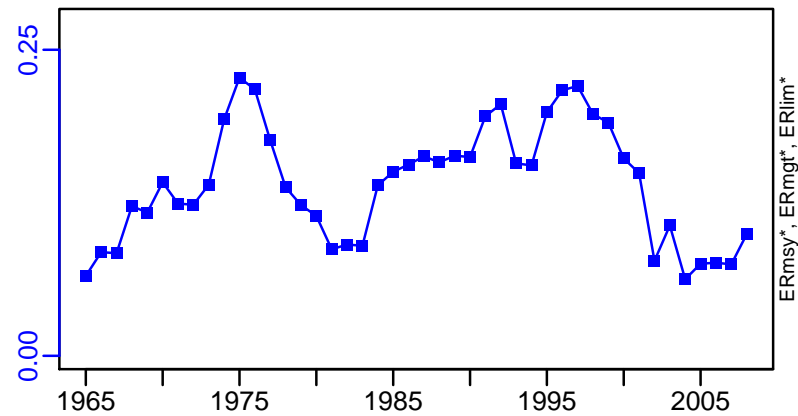


TN *

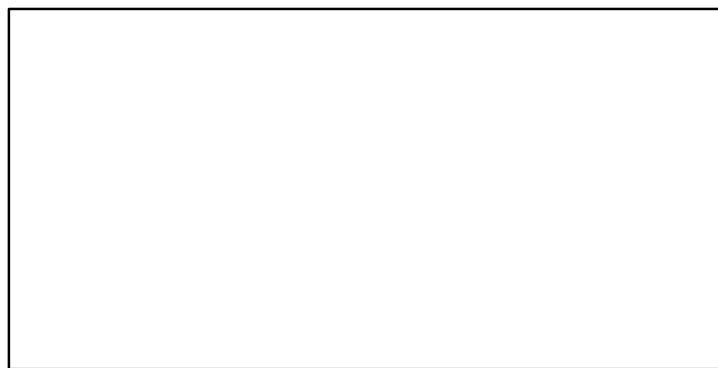
F*



ER-calc-ratio (1963-2012-CHING)



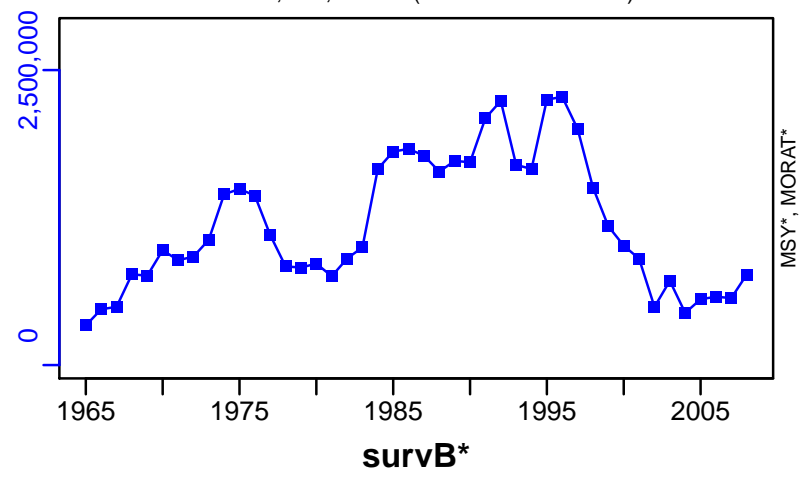
Recruits*



Walleye pollock Northern Sea of Okhotsk [WPOLLNSO]

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

TAC*, Cpair*, Cadv*



EFFORT*



Walleye pollock Western Bering Sea [WPOLLWBS]

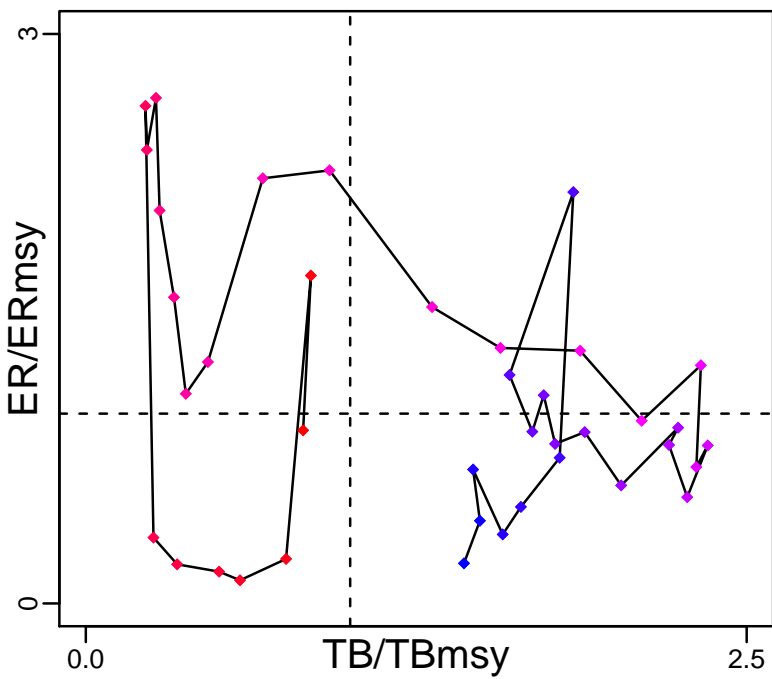
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	VNIRO-WPOLLWBS-1970-2008-CHING
Area	Western Bering Sea
Management Authority	Russian Federal Fisheries Agency, Russia national management
Assessor	Russian Federal Research Institute of Fisheries and Oceanography
Asmts in RAM	2008

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	362,000
Fmsy	Fmsy-1/yr	2008	0.13
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

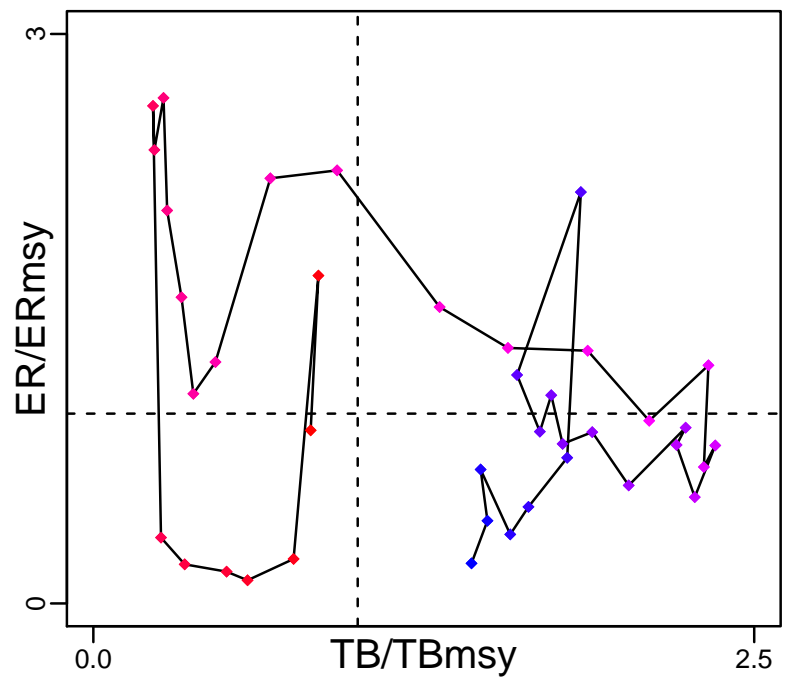
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2008	954,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2008	0	-	-
TC	TC-MT	2008	103,000	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/SSBmsy-MT	2008	0.82	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/Fmsy-1/yr	2008	0.91	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Walleye pollock Western Bering Sea [WPOLLWBS]

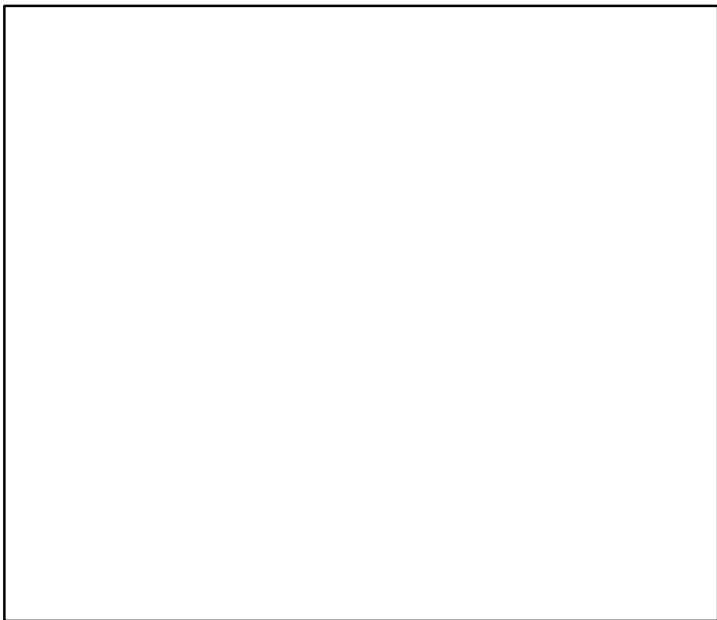
Kobe MSYpref (1970–2008–CHING)



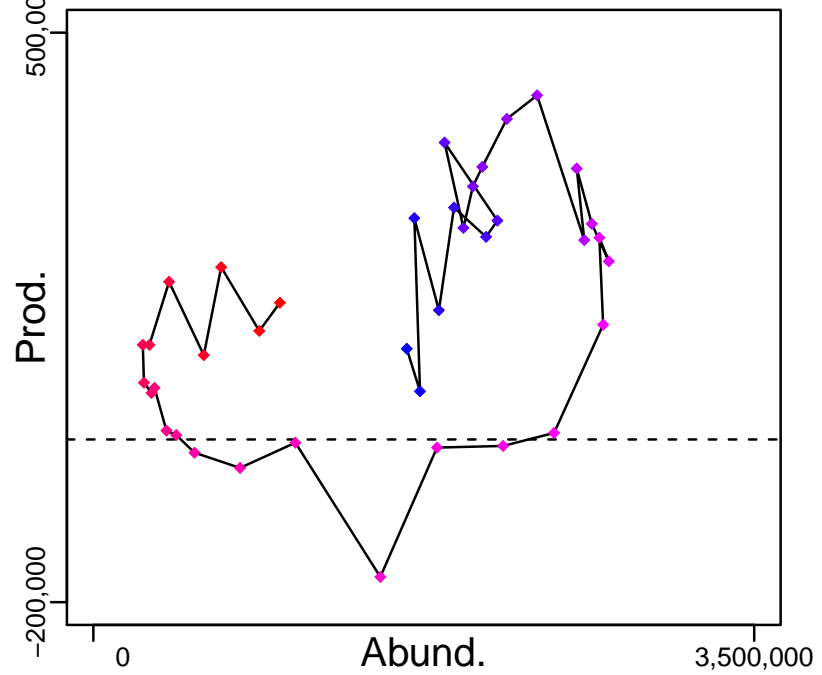
Kobe MGTpref (1970–2008–CHING)



Spawner Recruit*



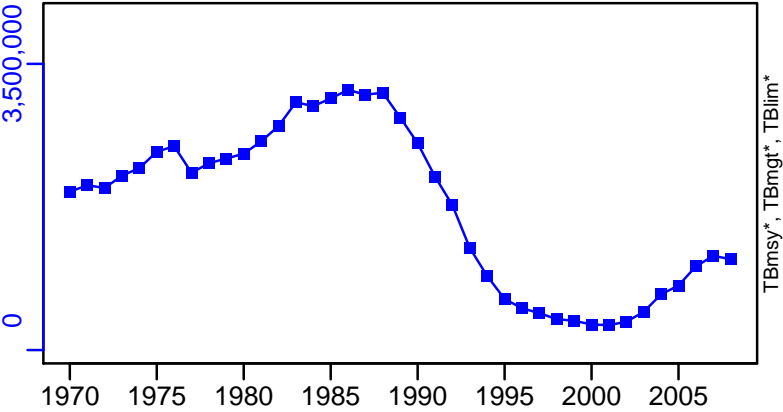
Production (1970–2008–CHING)



◆ Start Year ◆ End Year * No Data

Walleye pollock Western Bering Sea [WPOLLWBS]

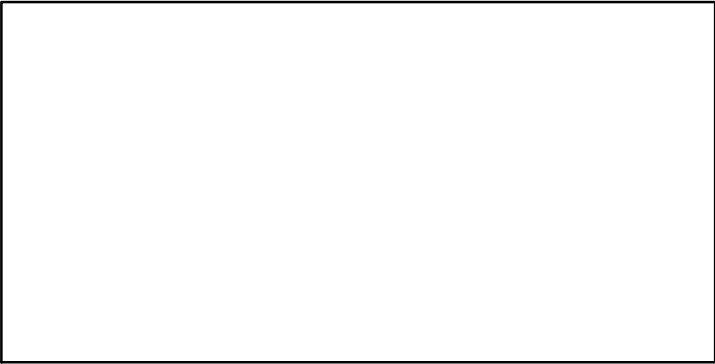
TB-MT (1970-2008-CHING)



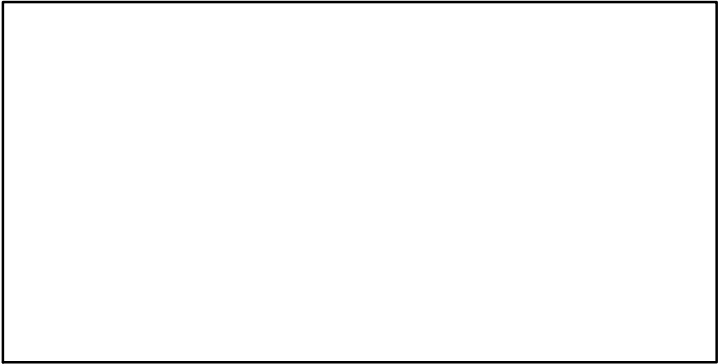
SSB*



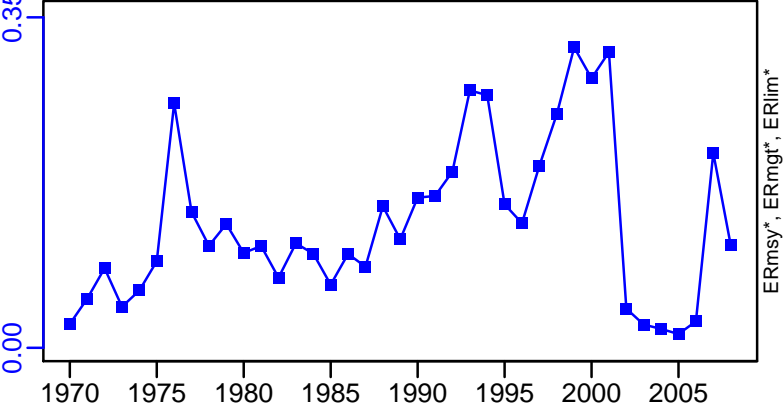
TN *



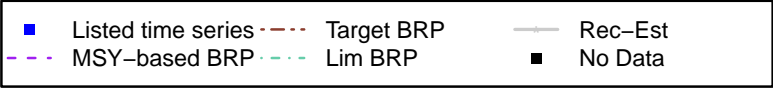
F*



ER-calc-ratio (1970-2008-CHING)

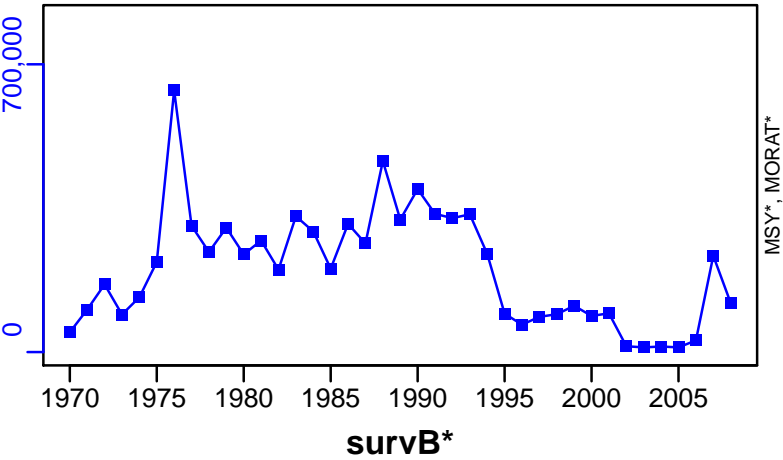


Recruits*



Walleye pollock Western Bering Sea [WPOLLWBS]

TC-MT, TL*, RecC* (1970-2008-CHING)



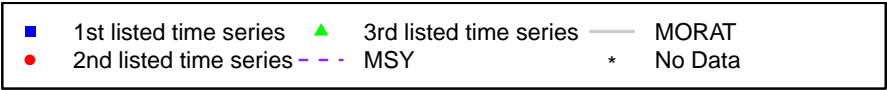
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Whitespotted conger Ise and Mikawa Bay [WSCONGIMKB]

Metadata	
Scientific Name	Conger myriaster
Current Assess ID	FAJ-WSCONGIMKB-1980-2013-JPNIMP2016
Area	Ise and Mikawa Bay
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	354		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



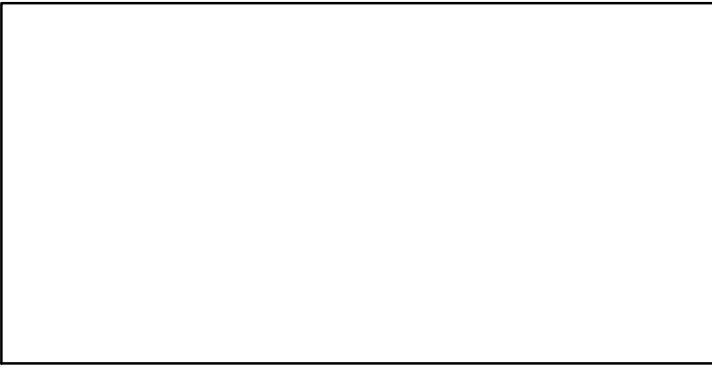
Production*



◆ Start Year ◆ End Year * No Data

Whitespotted conger Ise and Mikawa Bay [WSCONGIMKB]

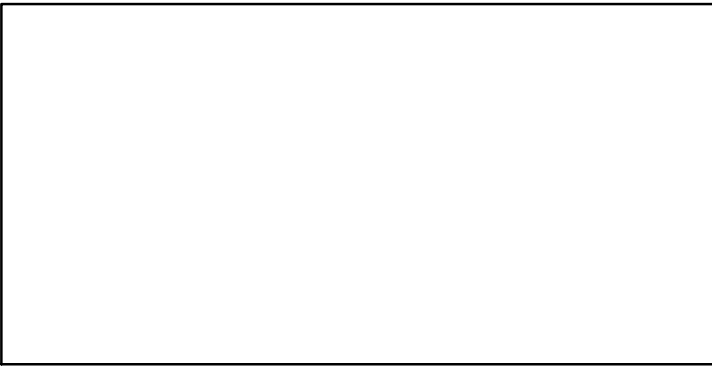
TB*



SSB*



TN *



F*



ER*



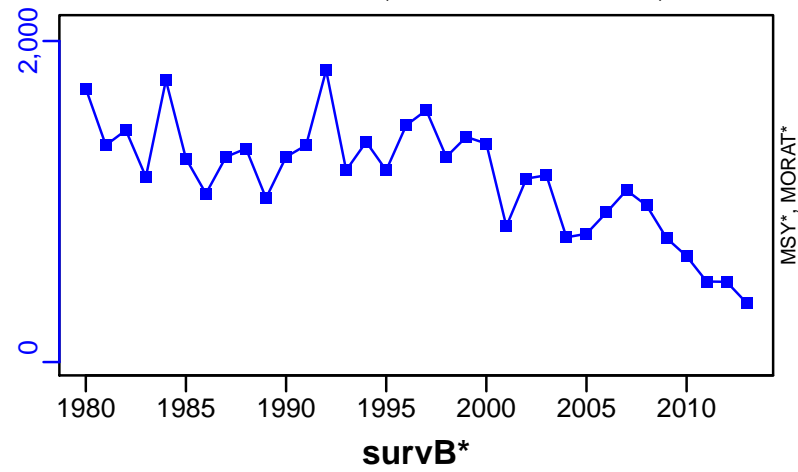
Recruits*



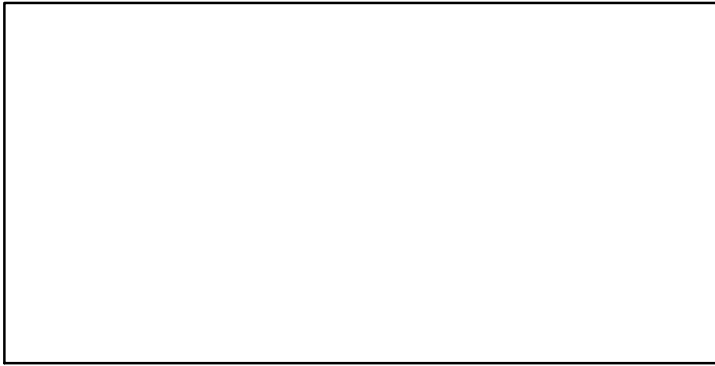
Whitespotted conger Ise and Mikawa Bay [WSCONGIMKB]

TC-MT, TL*, RecC* (1980–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Yellow goosfish North Pacific [YGSFISHNPAC]

Metadata	
Scientific Name	Lophius litulon
Current Assess ID	FAJ-YGSFISHNPAC-1973-2013-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	183		
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

Yellow goosefish North Pacific [YGSFISHNPAC]

TB*



SSB*



TN *



F*



ER*

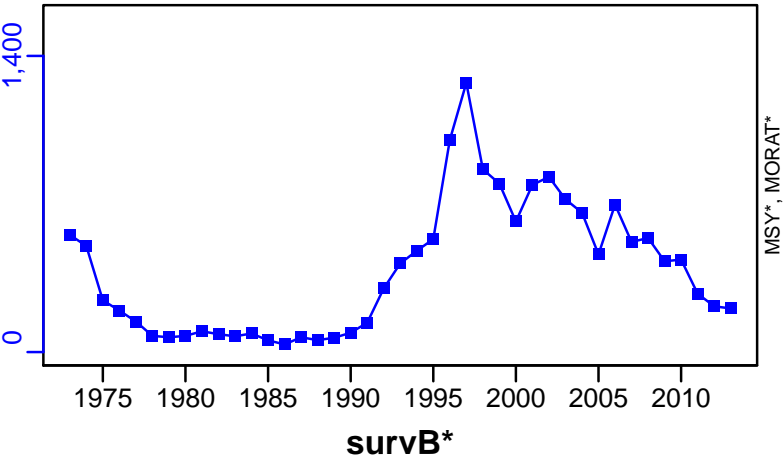


Recruits*



Yellow goosfish North Pacific [YGSFISHNPAC]

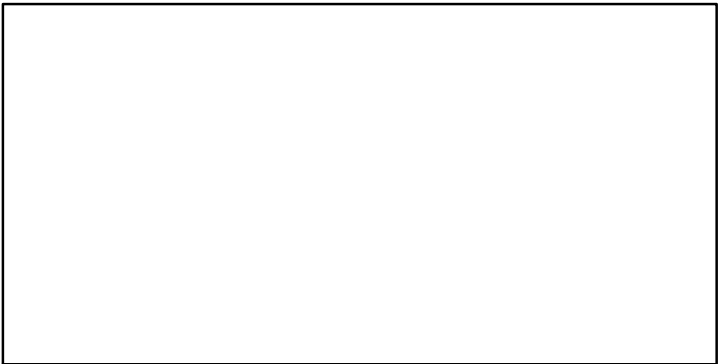
TC-MT, TL*, RecC* (1973-2013-JPNIMP2016)



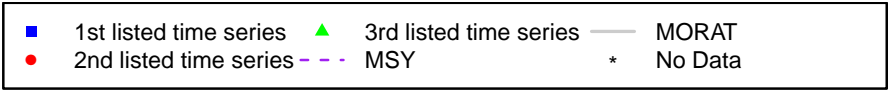
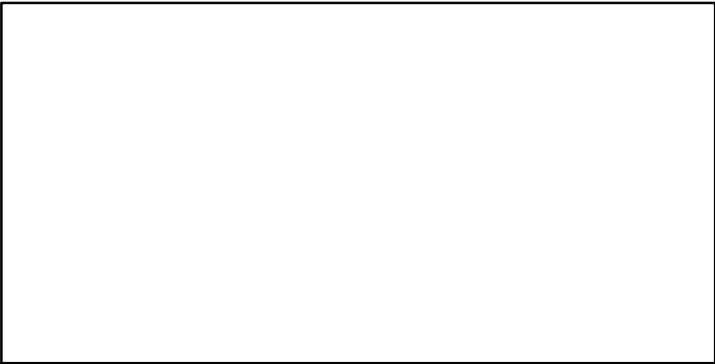
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Yellow striped flounder North coast of Hokkaido [YSFLOUNNHOKK]

Metadata	
Scientific Name	Pseudopleuronectes herzensteini
Current Assess ID	FAJ-YSFLOUNNHOKK-1985-2013-JPNIMP2016
Area	North coast of Hokkaido
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	1550		
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

Yellow striped flounder North coast of Hokkaido [YSFLOUNNHOKK]

TB*



SSB*



TN *



F*



ER*

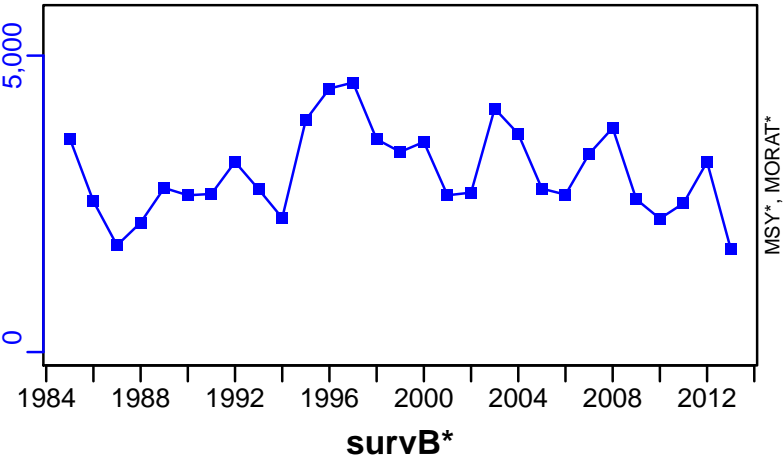


Recruits*



Yellow striped flounder North coast of Hokkaido [YSFLOUNNHOKK]

TC-MT, TL*, RecC* (1985-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Yellow striped flounder Sea of Japan [YSFLOUNSOJ]

Metadata	
Scientific Name	Pseudopleuronectes herzensteini
Current Assess ID	FAJ-YSFLOUNSOJ-1980-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries 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	240		
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

Yellow striped flounder Sea of Japan [YSFLOUNSOJ]

TB*



SSB*



TN *



F*



ER*

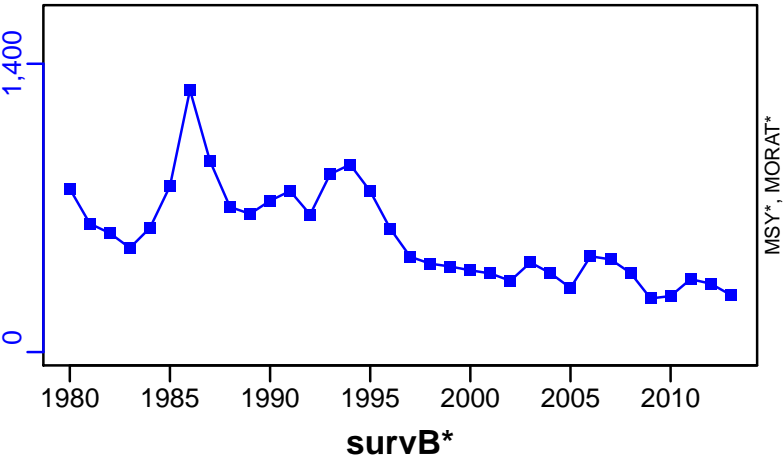


Recruits*



Yellow striped flounder Sea of Japan [YSFLOUNSOJ]

TC-MT, TL*, RecC* (1980-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*

