# **Russia Japan Stocks**

v4.25 (Dec-14-2017)

- 1. Walleye pollock Nemuro Strait [APOLLNEMS]
- 2. Walleye pollock Sea of Japan North [APOLLNSJ]
- 3. Walleye pollock Okhotsk Sea [APOLLOKS]
- 4. Walleye pollock Pacific Coast of Japan [APOLLPJPN]
- 5. Alaskan pink shrimp Sea of Japan [APSHRIMPSOJ]
- 6. Arabesque greenling Nemuro Strait [ARGREENNEMS]
- 7. Arabesque greenling North coast of Hokkaido [ARGREENNHOKK]
- 8. Arabesque greenling South coast of Hokkaido [ARGREENSHOKK]
- 9. Amberstripe scad East China Sea [ASCADECS]
- 10. Spotted mackerel East China Sea [BMACKECS]
- 11. Spotted mackerel Pacific Coast of Japan [BMACKPJPN]
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- 13. Black scraper Sea of Japan and East China Sea [BSCRAPERSOJECS]
- 14. Beni-zuwai crab Sea of Japan [BZCRABSOJ]
- 15. Crimson jobfish Okinawa Islands [CJOBOKWI]
- 16. Chub mackerel Pacific Coast of Japan [CMACKPJPN]
- 17. Chub mackerel Tsushima Strait [CMACKTSST]
- 18. Deep-sea smelt Pacific Ocean [DSSMELTPAC]
- 19. Deep-sea smelt Sea of Japan [DSSMELTSOJ]
- 20. Flathead flounder Sea of Japan [FHFLOUNSOJ]
- 21. Flame snapper Okinawa Islands [FSNAPOKWI]
- 22. Pacific herring Hokkaido [HERRHOKK]
- 23. Horsehead tilefish East China Sea [HHTILEECS]
- 24. Japanese amberjack Japan [JAMBERJPN]
- 25. Japanese anchovy Pacific Coast of Japan [JANCHOPJPN]
- 26. Japanese anchovy Inland Sea of Japan [JANCHOSETO]
- 27. Japanese anchovy Tsushima Strait [JANCHOTSST]
- 28. Japanese flying squid Japan Autumn recruitment [JCSQUIDJPNAR]
- 29. Japanese flying squid Japan Winter recruitment [JCSQUIDJPNWR]
- 30. Japanese jack mackerel Pacific Coast of Japan [JMACKPJPN]
- 31. Japanese jack mackerel Tsushima Strait [JMACKTSST]
- 32. Japanese pufferfish Ise and Mikawa Bay [JPUFFIMKB]
- 33. Japanese pufferfish Sea of Japan and East China Sea and Seto Inland sea [JPUFFSOJECSSI]
- 34. Japanese snapper Okinawa Islands [JSNAPOKWI]
- 35. Kichiji rockfish North Pacific [KCROCKNPAC]
- 36. Kichiji rockfish Okhotsk Sea [KCROCKOKS]
- 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 sandlance Ise and Mikawa Bay [PSANDLIMKB]
- 53. Pacific sand lance Souva 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]

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	

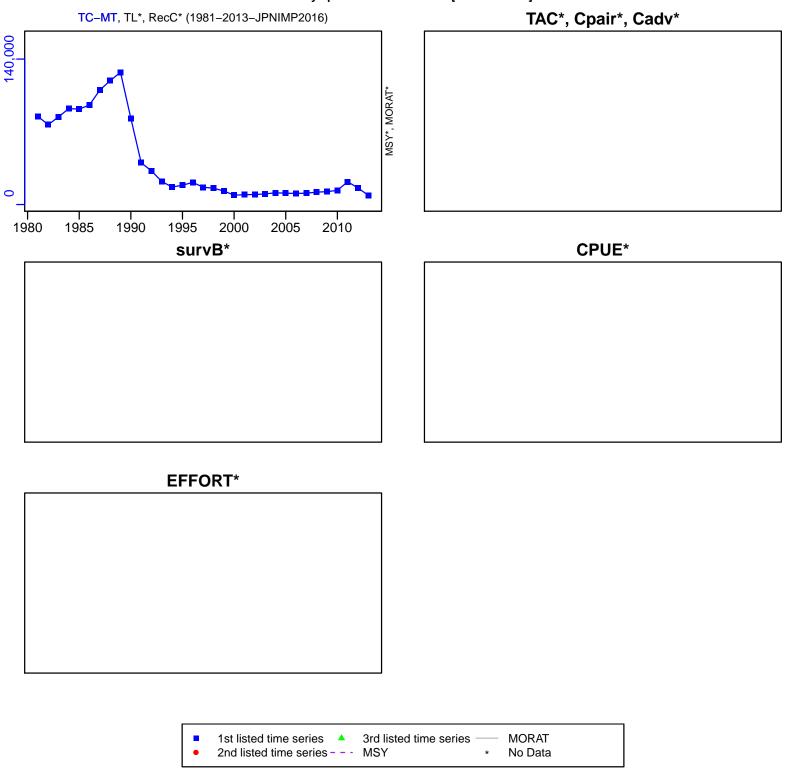
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data

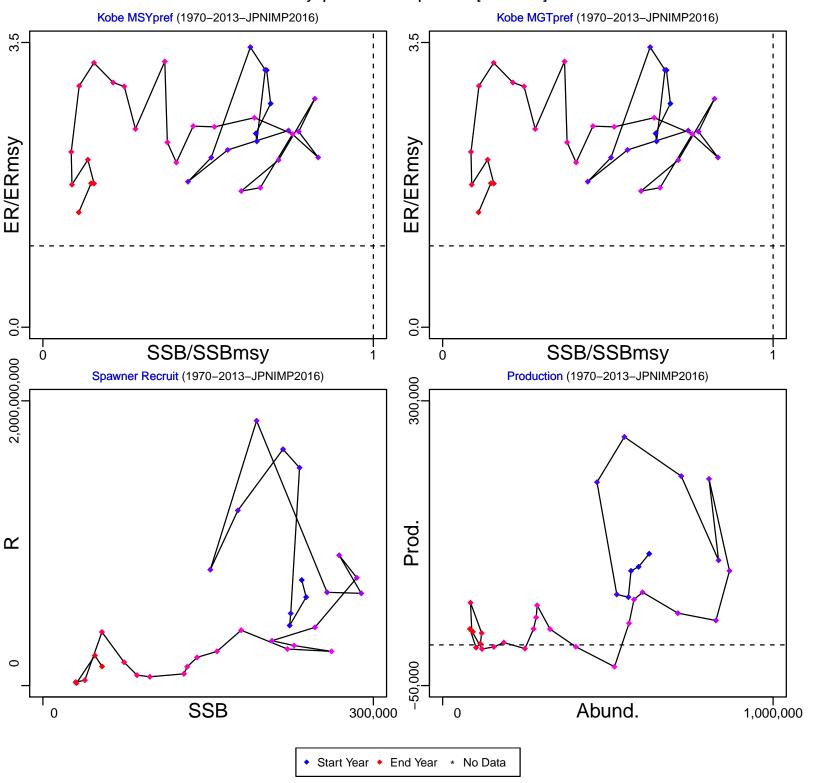


# Walleye pollock Sea of Japan North [APOLLNSJ]

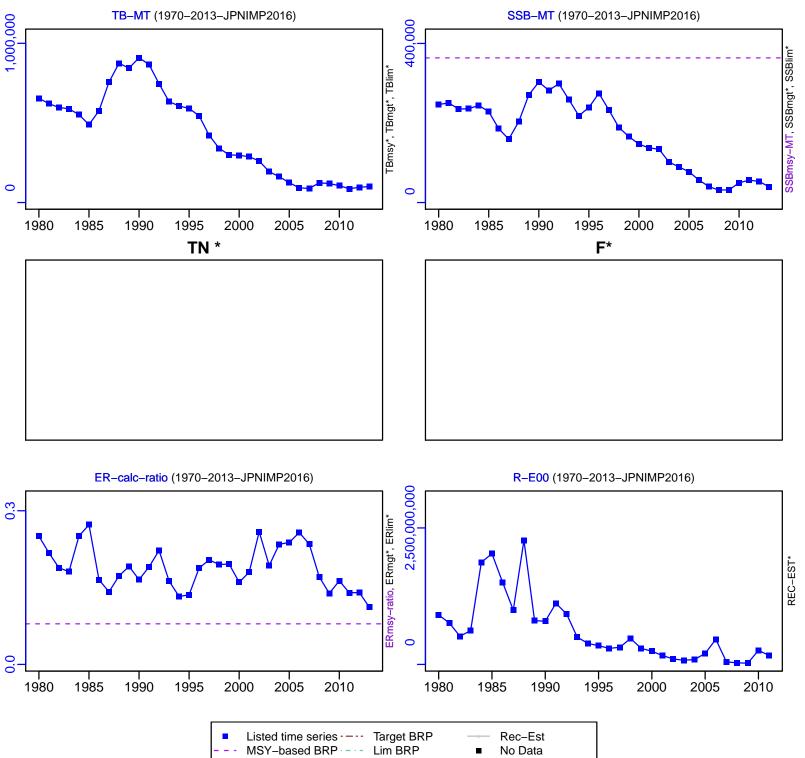
Metadata		
Scientific Name	Theragra chalcogramma	
Current Assess ID	FAJ-APOLLNSJ-1970-2013-JPNIMP2016	
Area	Sea of Japan North	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013	

Reference Points			
Туре	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
М	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

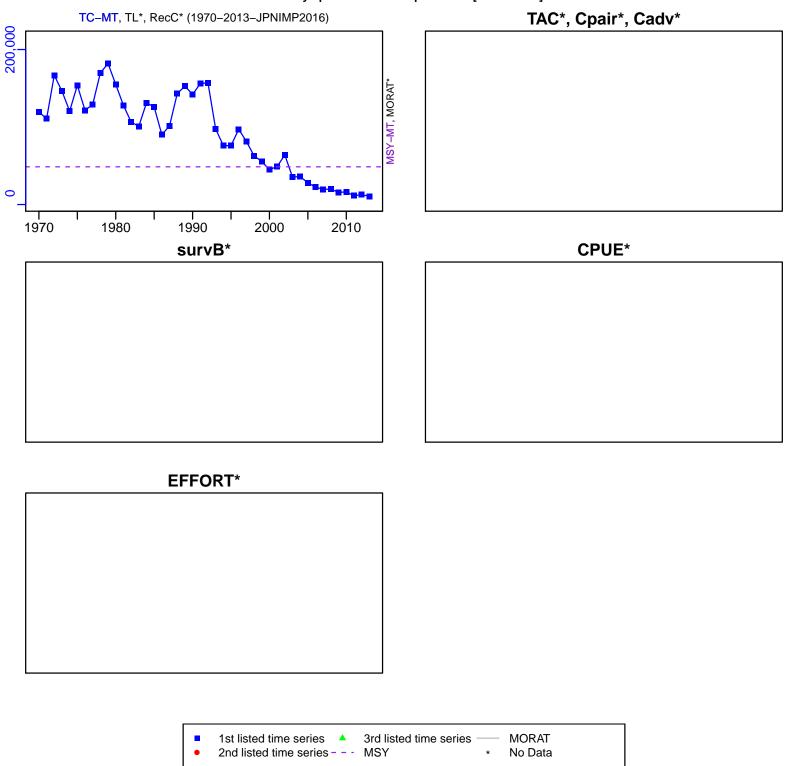
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	95,800	-	2
SSB	SSB-MT	2013	37,700	Both	4
TN	-	-	-	-	-
R	R-E00	2013	$1.34 \times 10^{8}$	-	2
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	9870		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.11		
F/Fmsy	-	-	-		
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]



#### Walleye pollock Sea of Japan North [APOLLNSJ]



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	

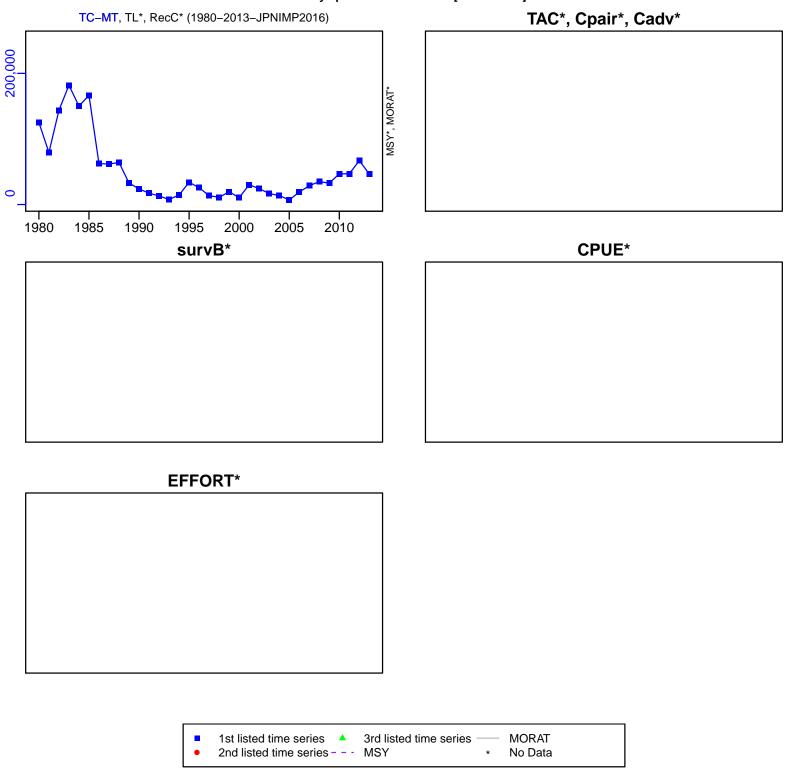
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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

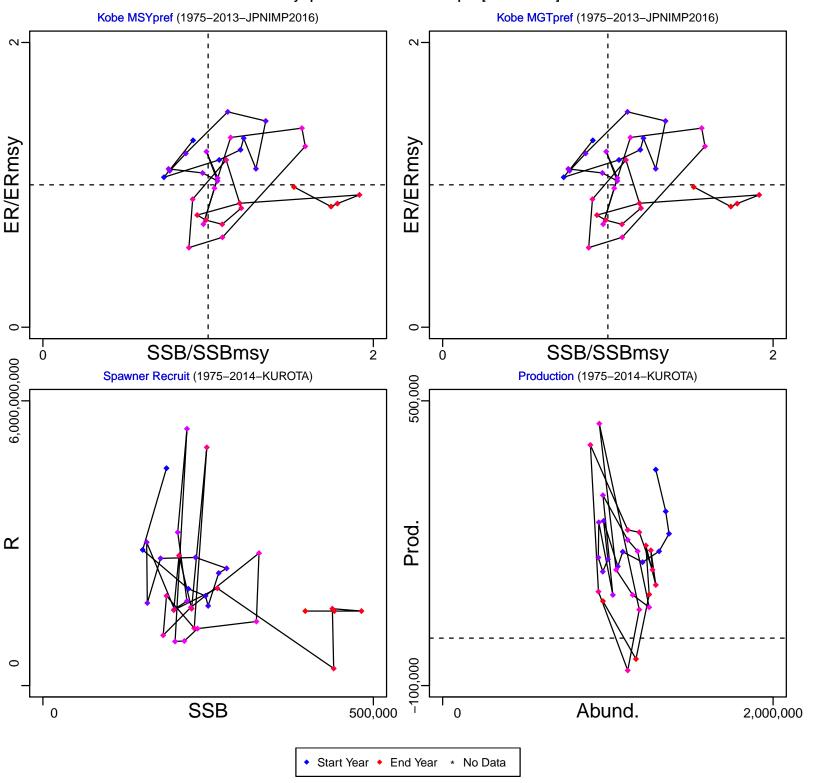
TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time porice T	orgat PPD —— Pop Est
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data

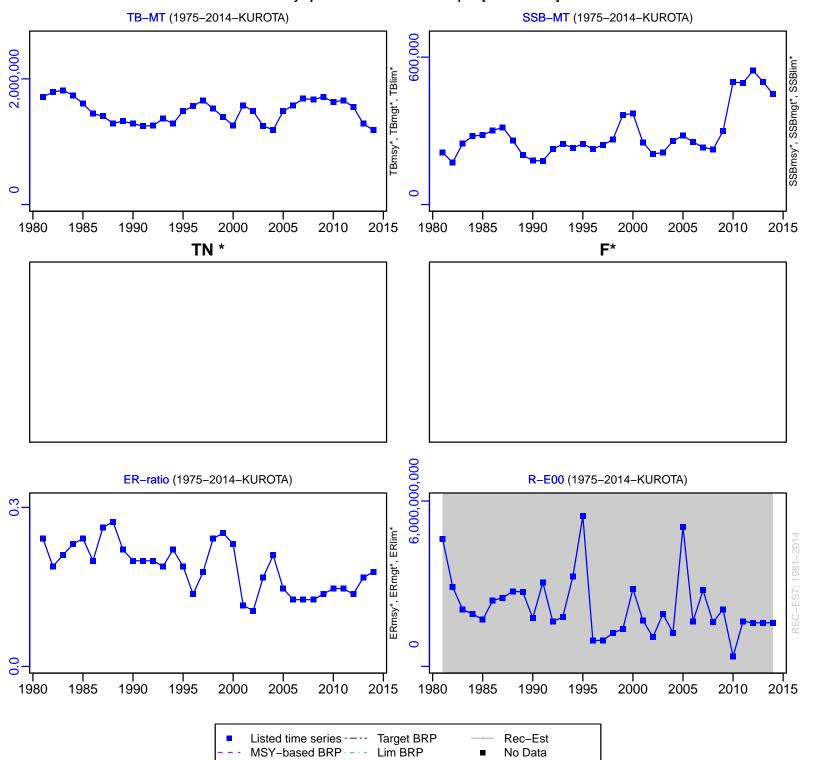


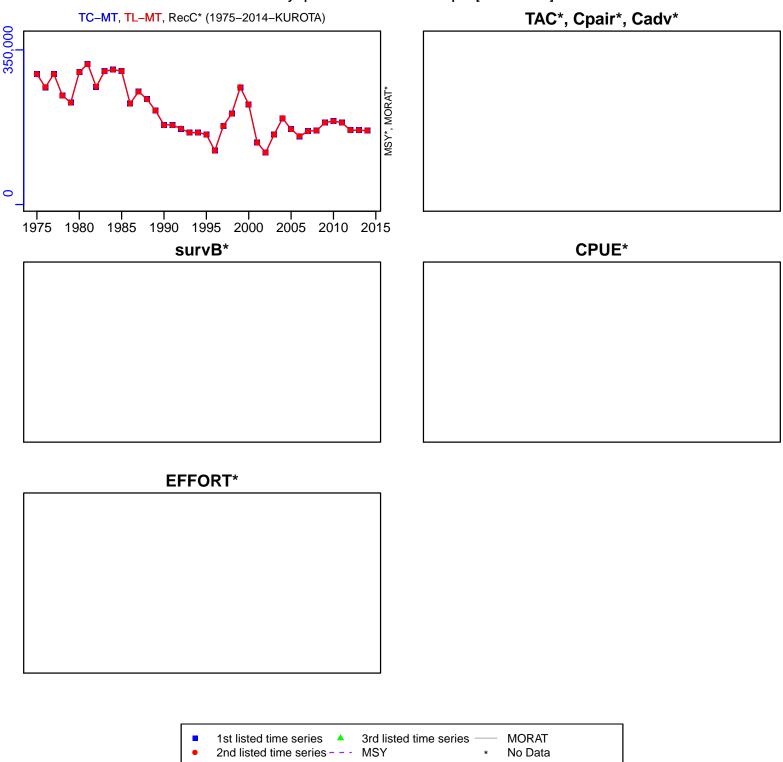
Metadata			
Scientific Name Theragra chalcogramma			
Current Assess ID FAJ-APOLLPJPN-1975-2013-JPNIMP2016			
Area Pacific Coast of Japan			
Management Authority Fisheries Agency and Fisheries Research Agency of Japa			
Assessor	Fisheries Agency of Japan		
Asmts in RAM	2013, 2014		

Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
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						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2014	892,000	Both	0+	
SSB	SSB-MT	2014	397,000	-	-	
TN	-	-	-	-	-	
R	R-E00	2014	$1.57 \times 10^{9}$	Both	0	
F	-	-	-	-	-	
ER	ER-ratio	2014	0	Both	0+	
TC	TC-MT	2014	155,000			
TL	TL-MT	2014	155,000			
TB/TBmsy	-	-	-			
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	-	-	-			







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 Jap			
Assessor	Fisheries Agency of Japan		
Asmts in RAM	2013		

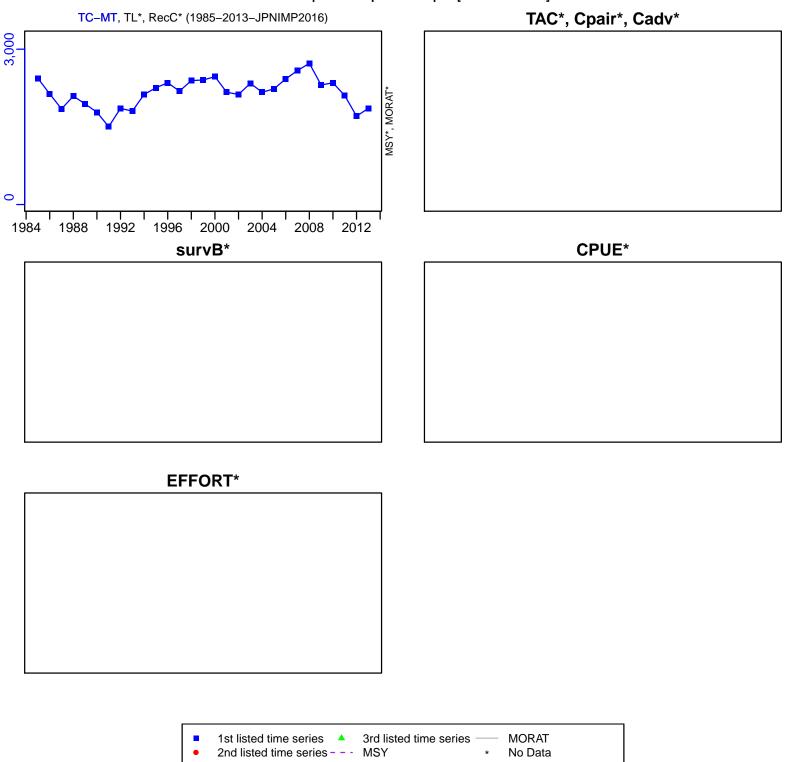
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

Kobe MGT*
Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta MSY-based BRP Li	m BRP ■ No Data



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		

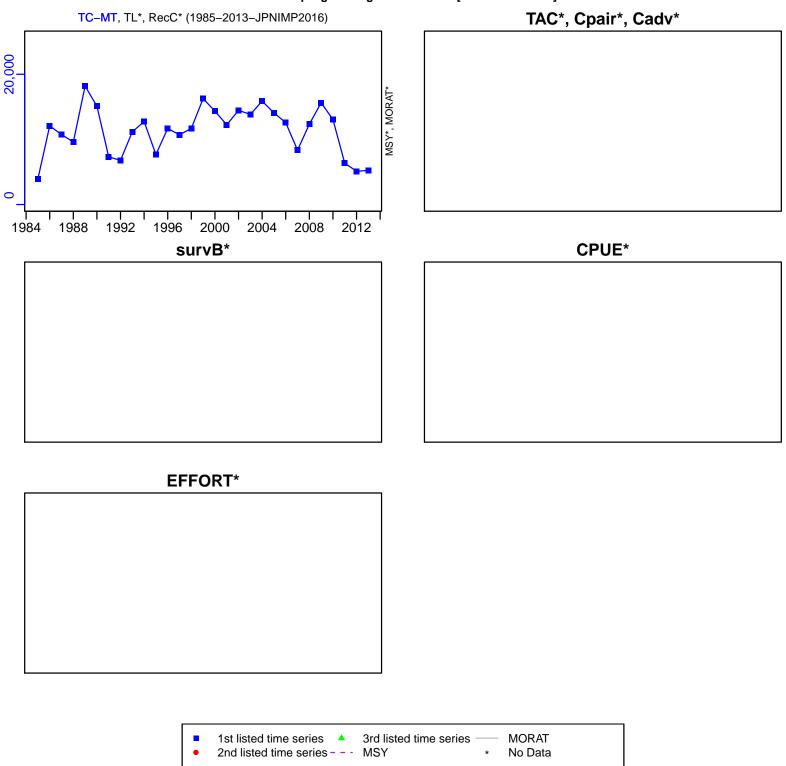
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	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*
ER	Reciuits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
MSY-based BRP Li	m BRP ■ No Data



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	

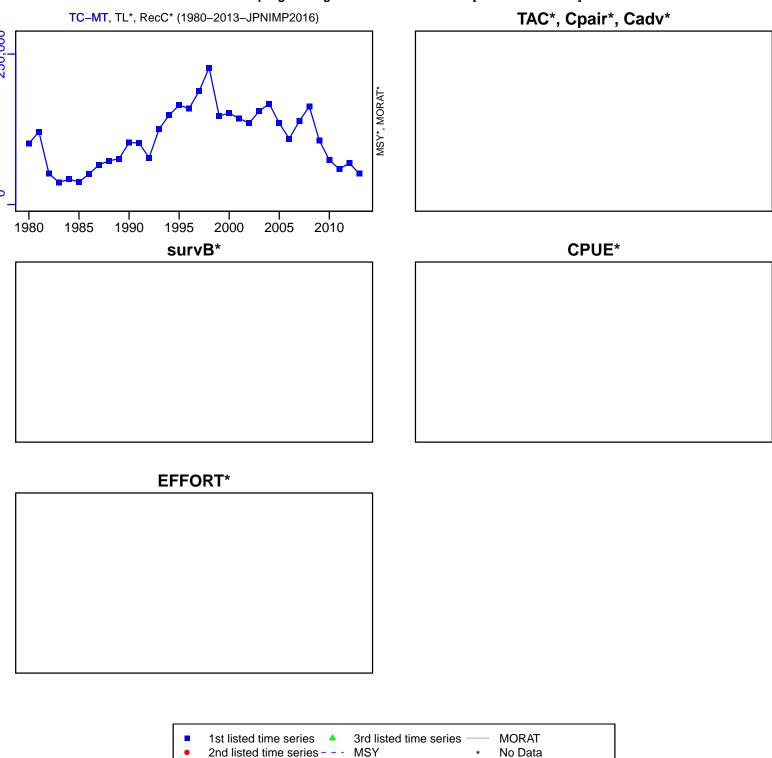
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	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*
Opamier Reorait	1 Todastion

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	m BRP ■ No Data



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	

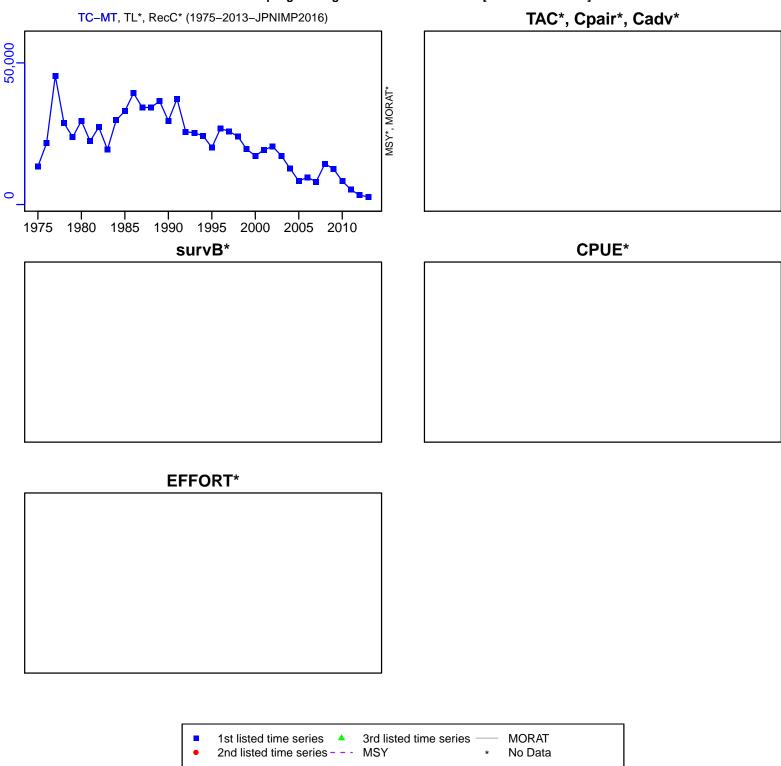
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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*
Snawner Recruit*	Production*
Spawner Recruit*	
Opawner Recitate	
Opawner Recitate	
Opawner Recruit	
Opawner receruit	
Opawner receruit	

◆ Start Year ◆ End Year ∗ No Data

TB*	SSB*
TN *	F*
ED.	D 14 . W
ER*	Recruits*
Listed time series T	proof PPD —— Poc. Ect
Listed time series Ta	arget BRP — Rec–Est m BRP ■ 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					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

#### Amberstripe scad East China Sea [ASCADECS]

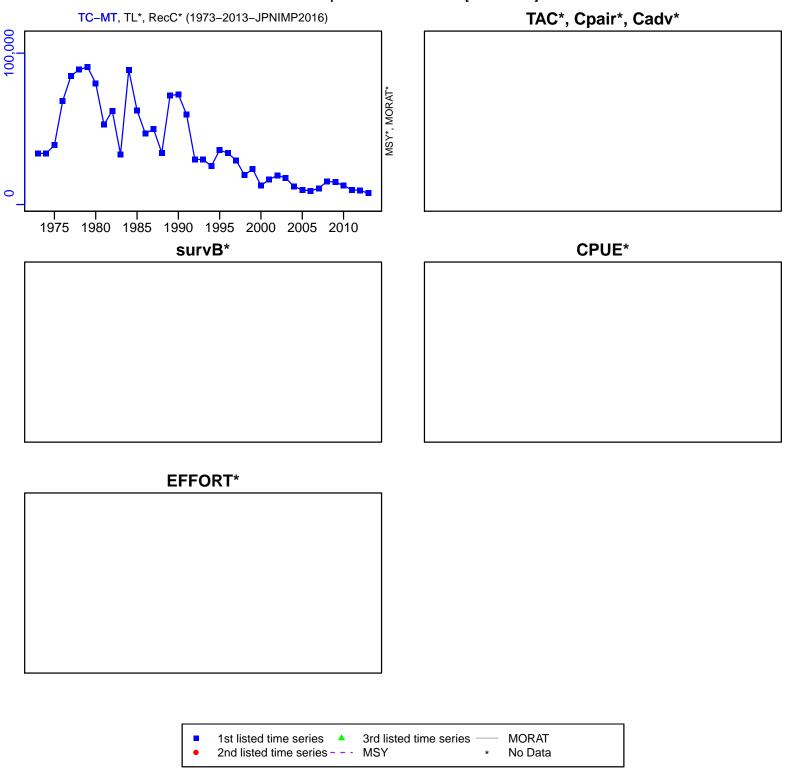
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Amberstripe scad East China Sea [ASCADECS]

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	m BRP ■ No Data

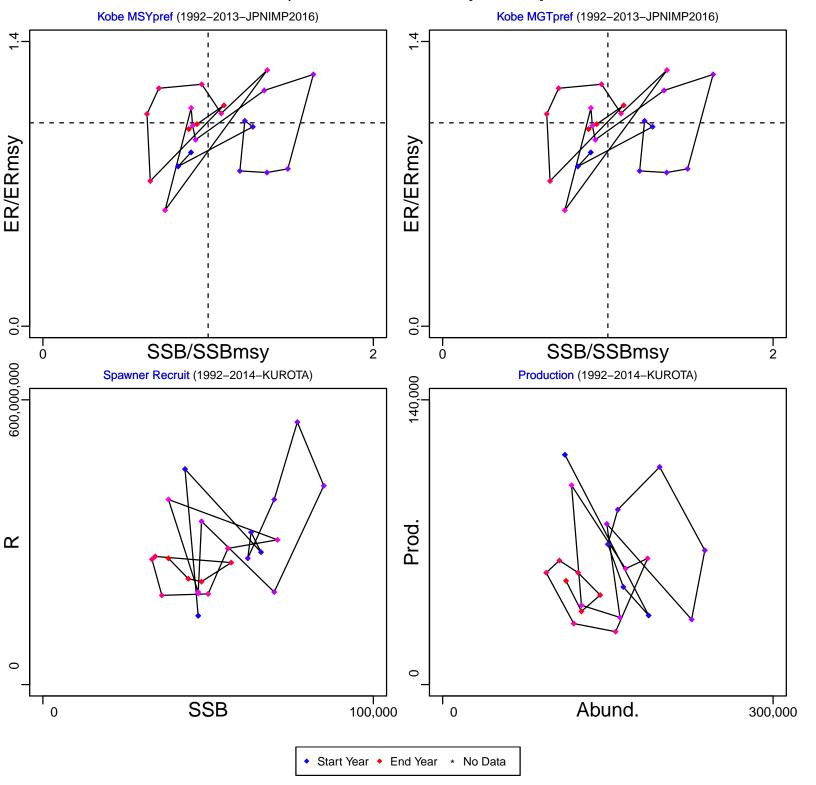
#### Amberstripe scad East China Sea [ASCADECS]

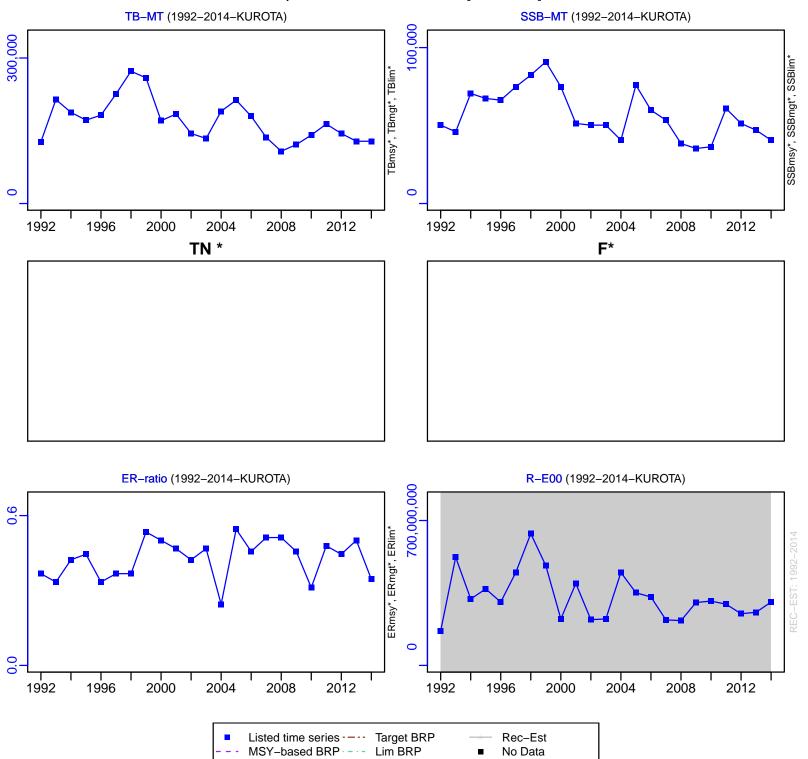


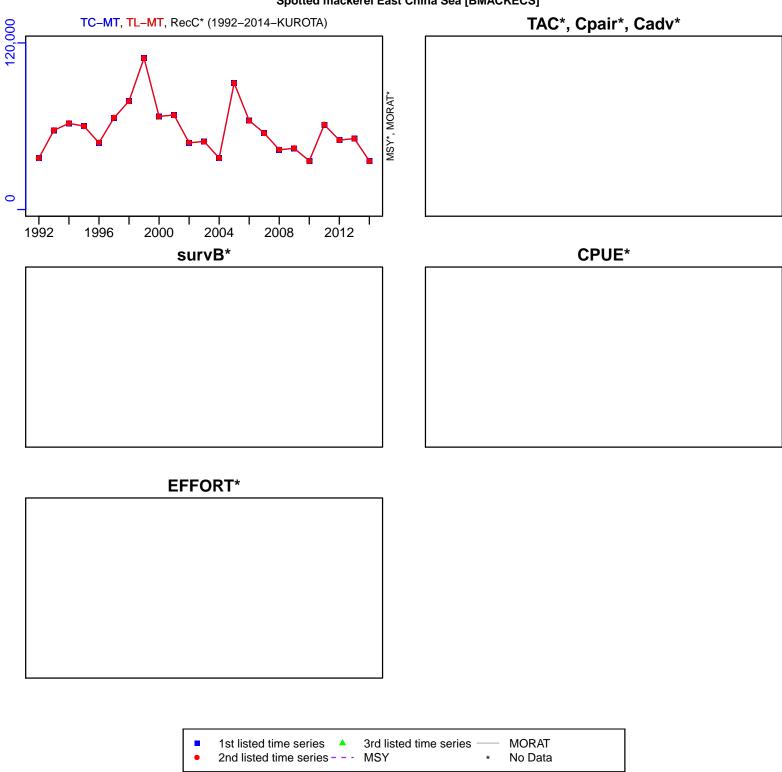
Metadata			
Scientific Name	Scomber australasicus		
Current Assess ID FAJ-BMACKECS-1992-2013-JPNIMP2016			
Area East China Sea			
Management Authority Fisheries Agency and Fisheries Research Agency of Japan			
Assessor Fisheries Agency of Japan			
Asmts in RAM	2013, 2014		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
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	
М	M-1/yr	2014	0.4	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	112,000	Both	0+
SSB	SSB-MT	2014	38,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	$2.66 \times 10^{8}$	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	35,000		
TL	TL-MT	2014	35,000		
TB/TBmsy	-	-	-		
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	-	-	-		



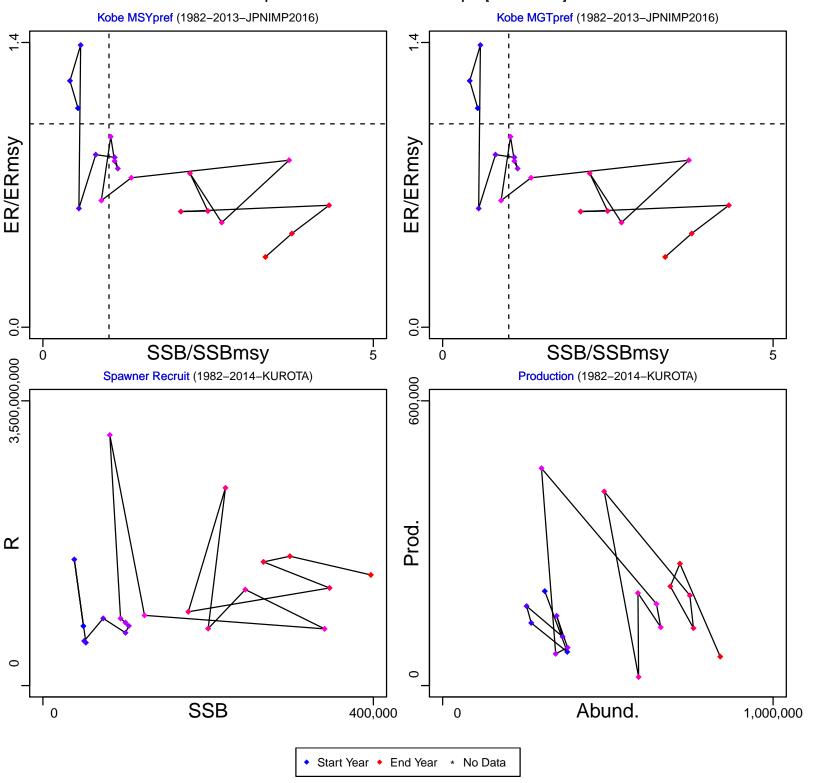


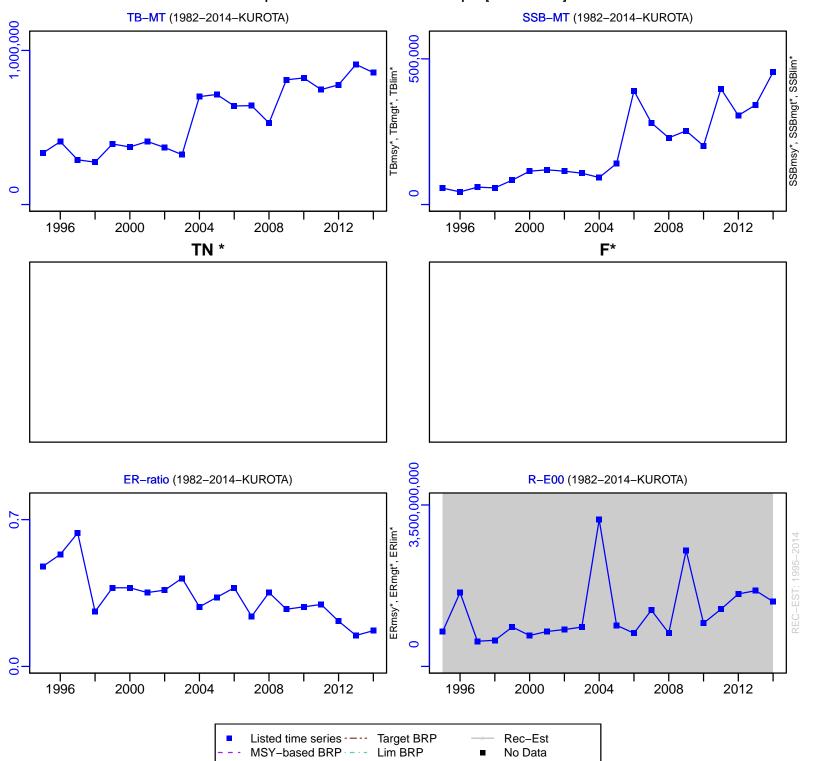


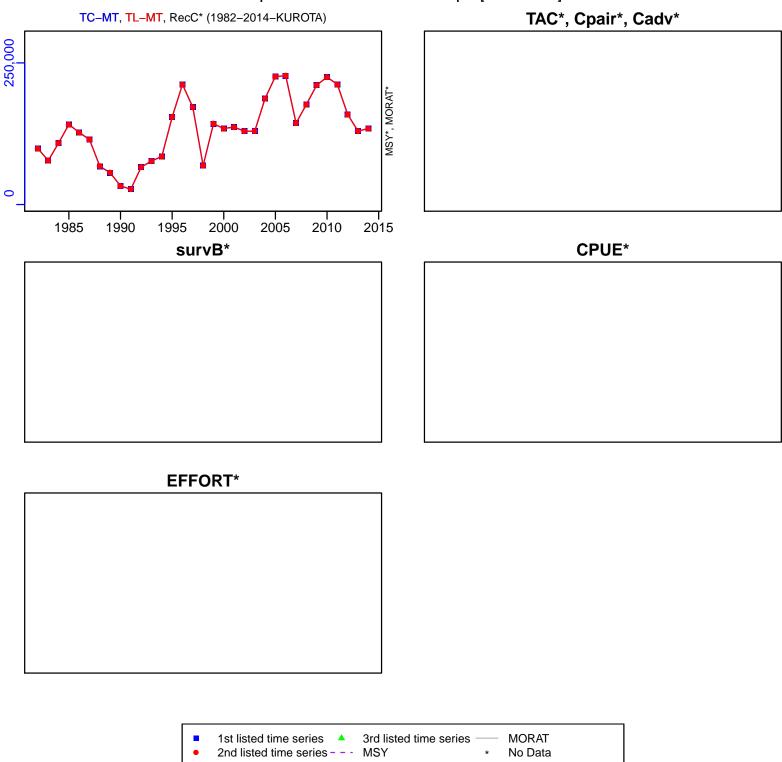
Metadata			
Scientific Name	Scomber australacius		
Current Assess ID FAJ-BMACKPJPN-1982-2013-JPNIMP2016			
Area Pacific Coast of Japan			
Management Authority Fisheries Agency and Fisheries Research Agency of Japan			
Assessor Fisheries Agency of Japan			
Asmts in RAM	2013, 2014		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
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	
М	M-1/yr	2014	0.4	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	791,000	Both	0+
SSB	SSB-MT	2014	397,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	$1.36 \times 10^{9}$	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	114,000		
TL	TL-MT	2014	114,000		
TB/TBmsy	-	-	-		
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	-	-	-		





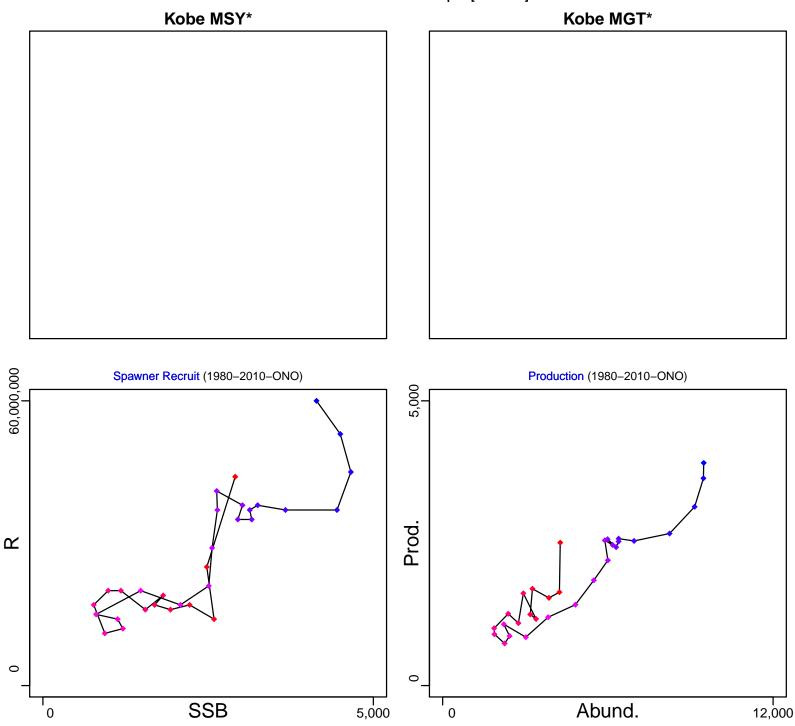


# Yellow sea bream Sea of Japan [BRMSOJ]

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		

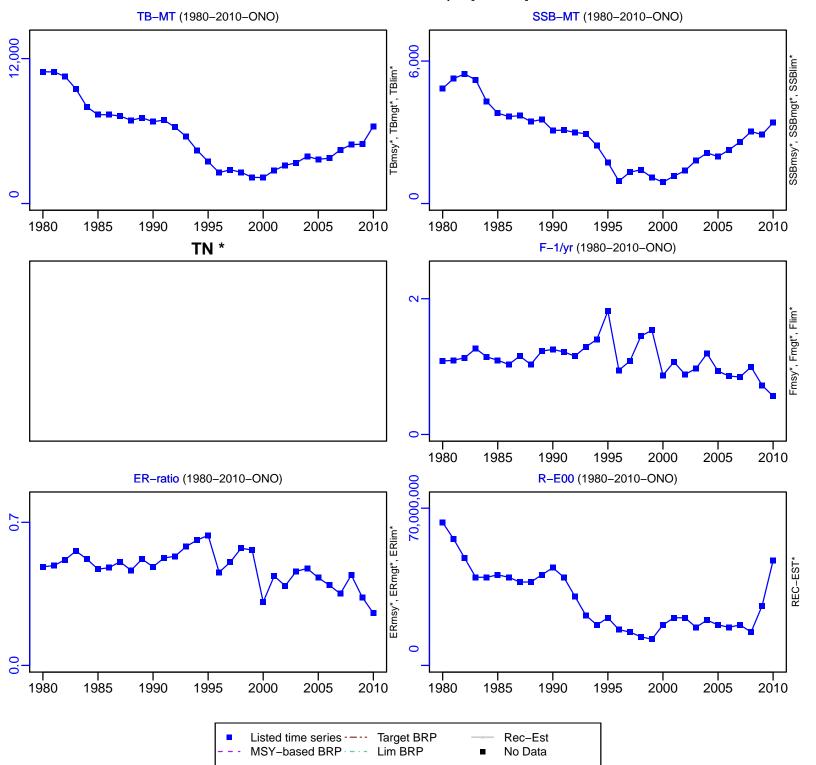
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2013	0.22		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	5560	-	0
SSB	SSB-MT	2010	2910	-	-
TN	-	-	-	-	-
R	R-E00	2010	$4.4 \times 10^7$	-	-
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	-	-	-		

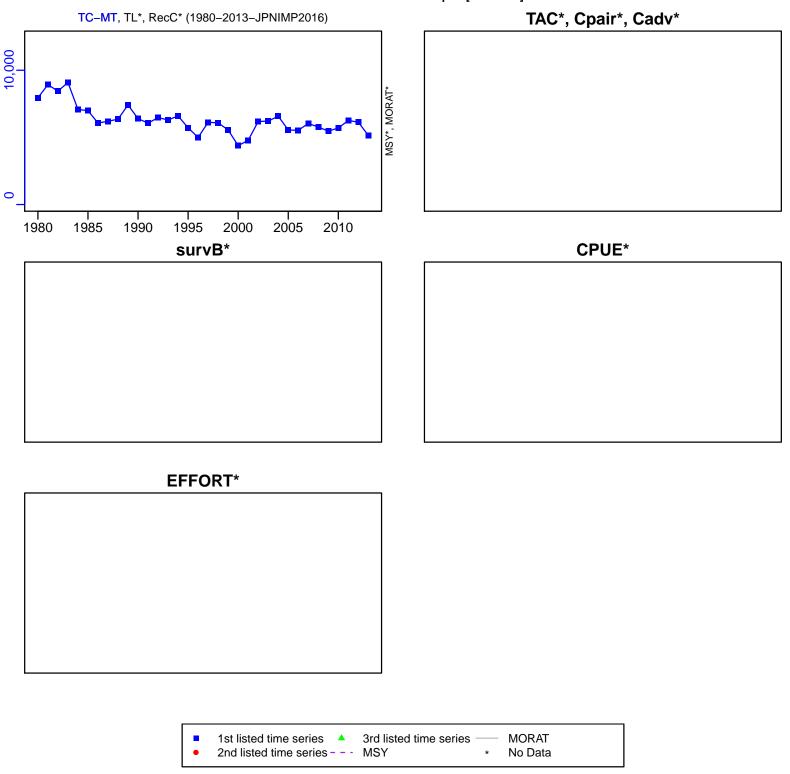


Start Year → End Year → No Data

#### Yellow sea bream Sea of Japan [BRMSOJ]



### Yellow sea bream Sea of Japan [BRMSOJ]



Metadata			
Scientific Name	Thamnaconus modestus		
Current Assess ID	FAJ-BSCRAPERSOJECS-2000-2013-JPNIMP2016		
Area Sea of Japan and East China Sea			
Management Authority	Management Authority Fisheries Agency and Fisheries Research Agency of Japan		
Assessor	Fisheries Agency of Japan		
Asmts in RAM	2013		

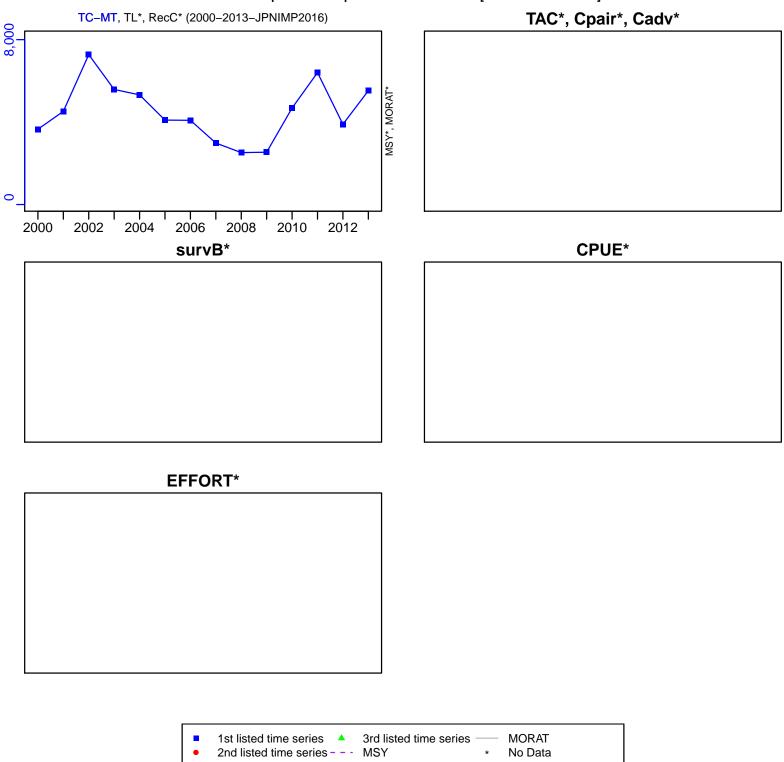
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	m BRP ■ No Data



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	

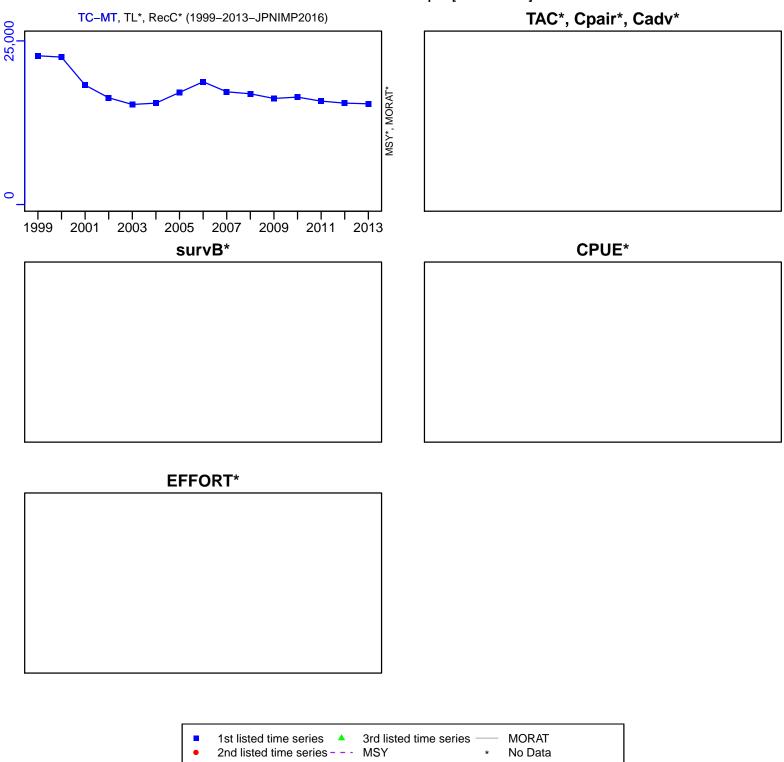
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ED*	Doowito*
ER*	Recruits*
	J
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data



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	

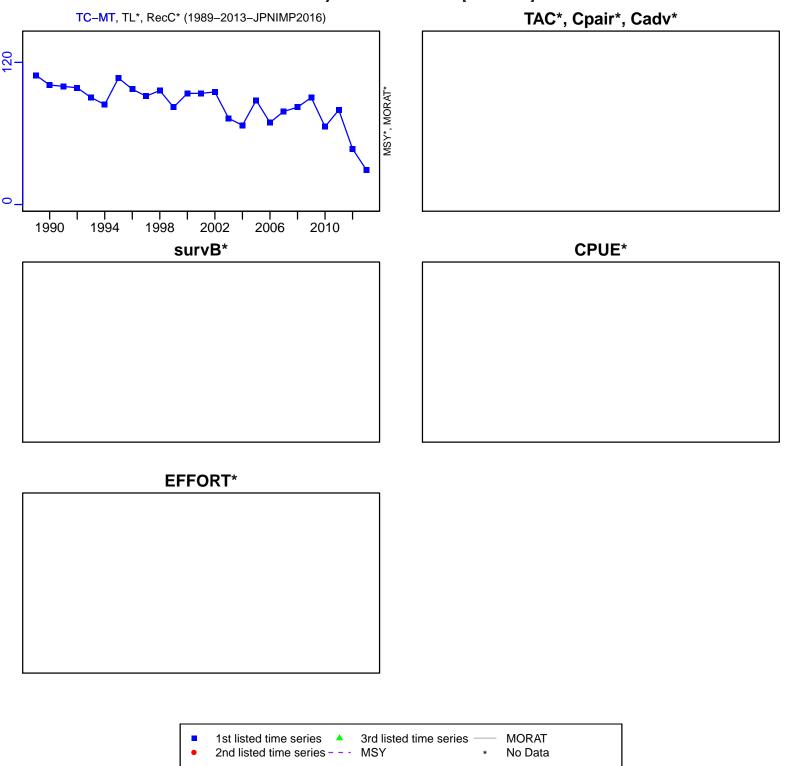
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

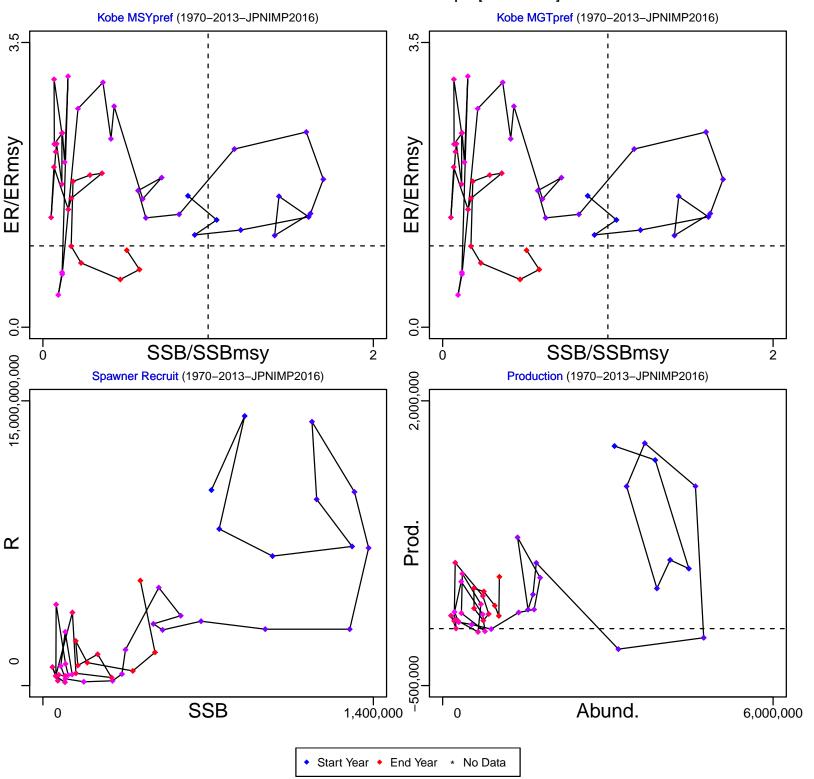
TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data

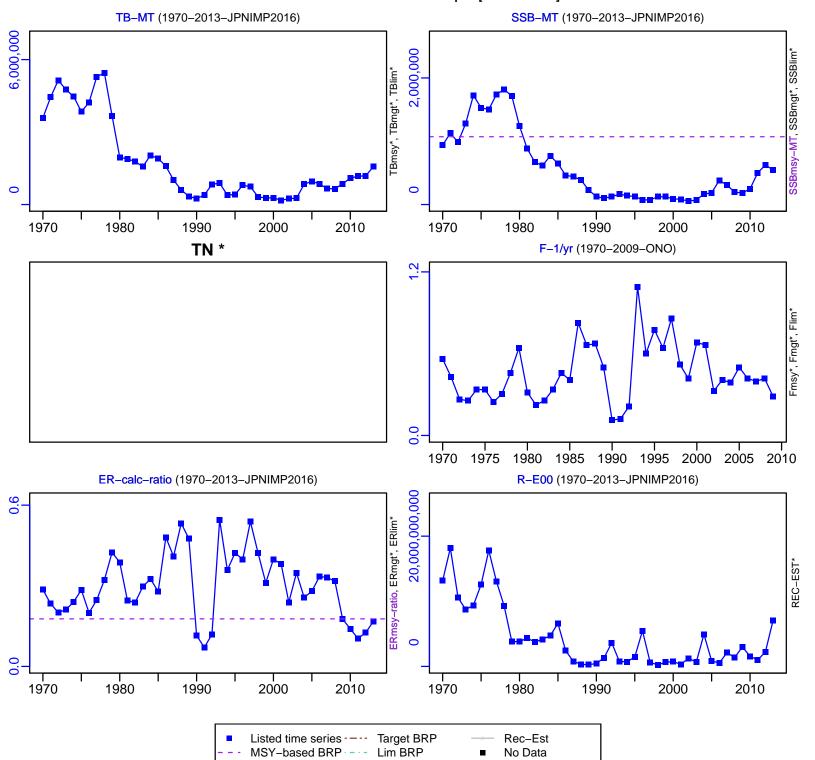


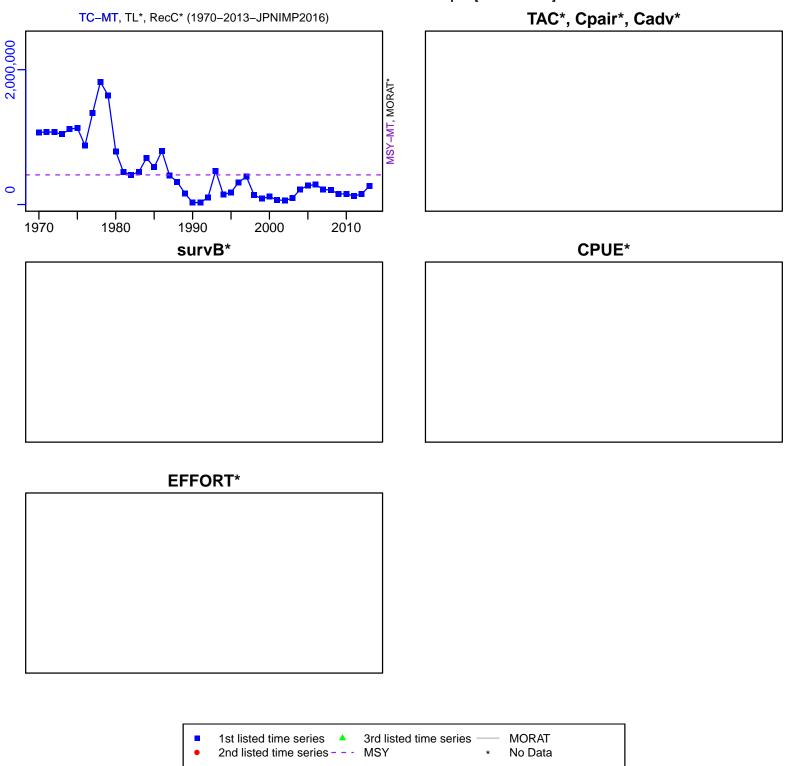
	Metadata
Scientific Name	Scomber japonicus
Current Assess ID	FAJ-CMACKPJPN-1970-2013-JPNIMP2016
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2009, 2013

	Reference	Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
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
М	M-1/yr	2013	0.4
TBlim	TBlim-MT	2009	450
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time S	Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	1,360,000	-	0
SSB	SSB-MT	2013	413,000	Both	2
TN	-	-	-	-	-
R	R-E00	2013	$5.53 \times 10^{9}$	-	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	-	-	-		
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	-	-	-		



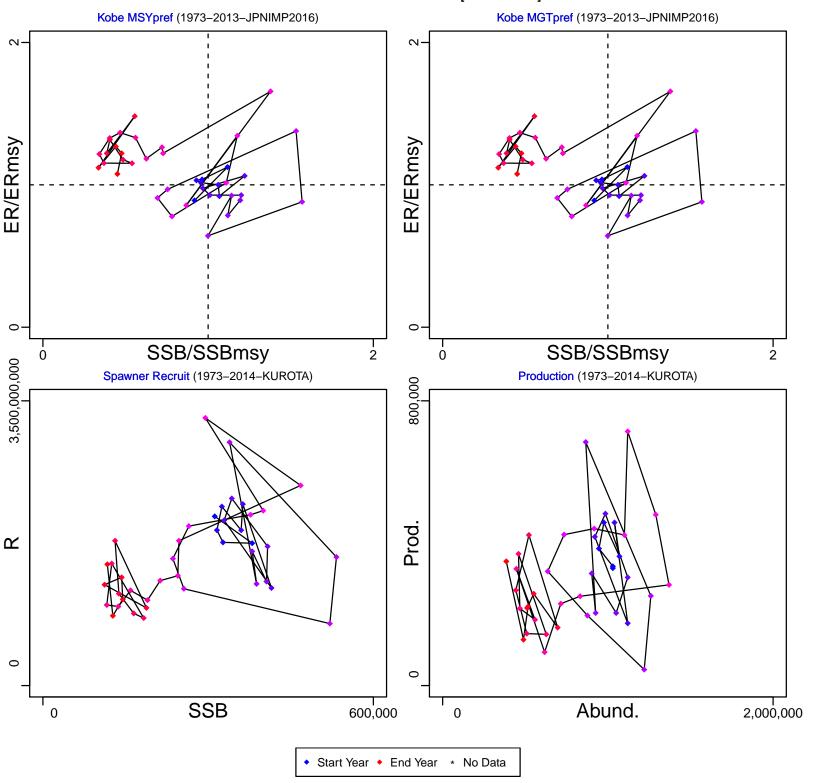


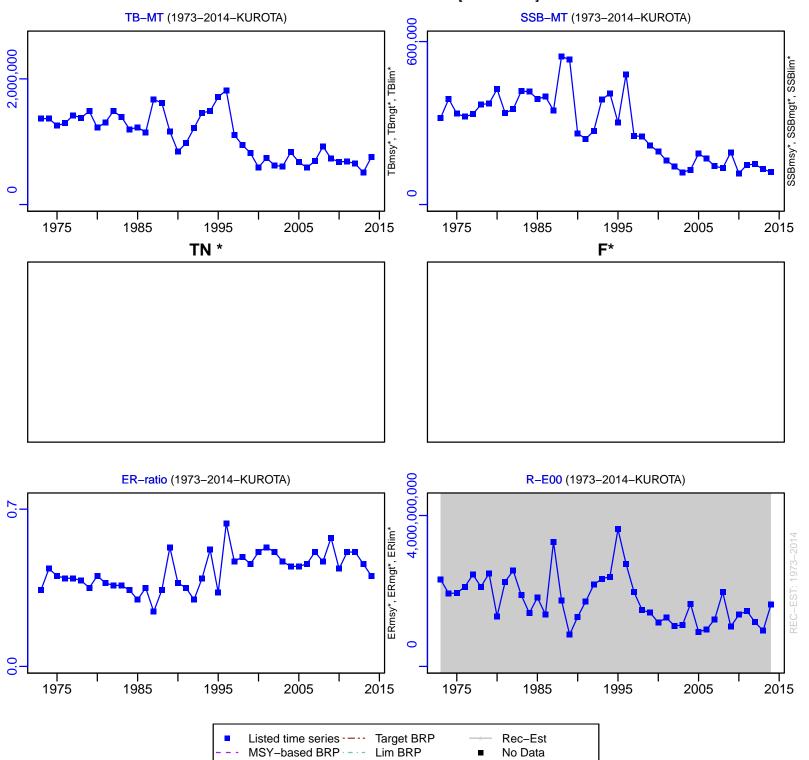


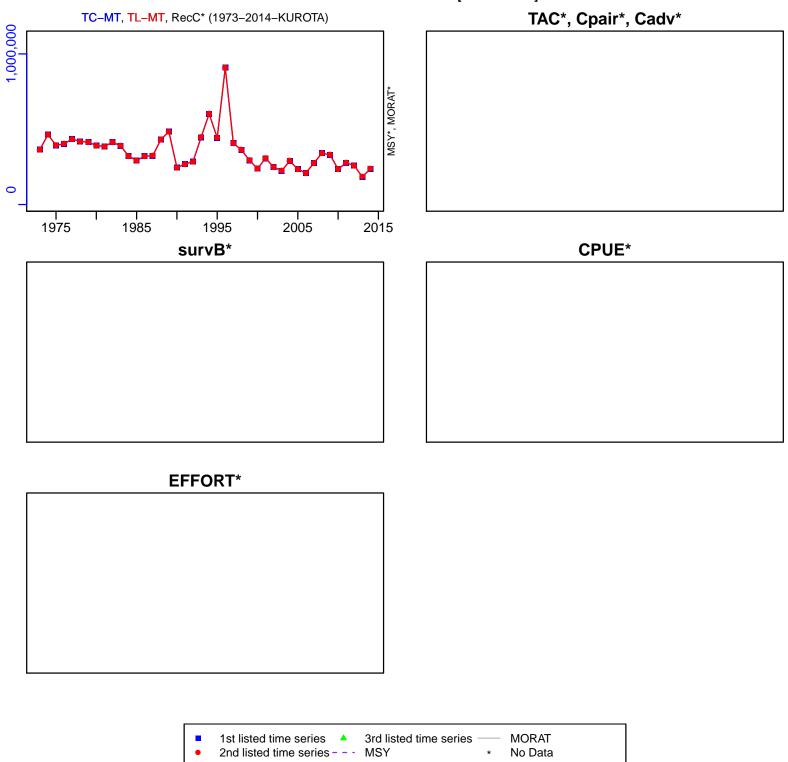
	Metadata
Scientific Name	Scomber japonicus
Current Assess ID	FAJ-CMACKTSST-1973-2013-JPNIMP2016
Area	Tsushima Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013, 2014

	Reference Points		
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
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 S	eries			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	568,000	Both	0+
SSB	SSB-MT	2014	117,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	$1.49 \times 10^{9}$	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	214,000		
TL	TL-MT	2014	214,000		
TB/TBmsy	-	-	-		
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	-	-	-		







# 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

F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series	1		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

## Deep-sea smelt Pacific Ocean [DSSMELTPAC]

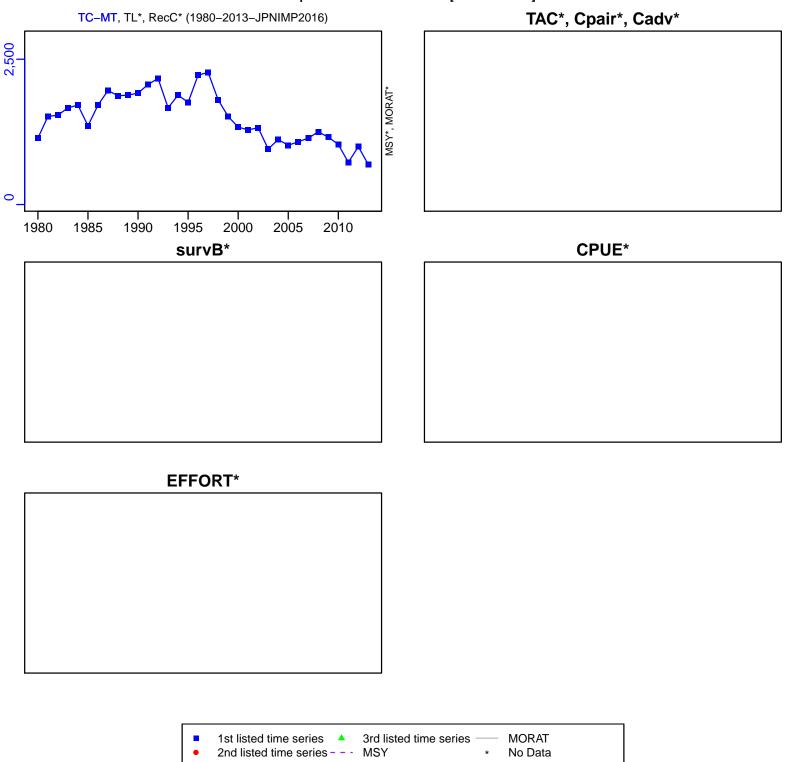
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Deep-sea smelt Pacific Ocean [DSSMELTPAC]

TB*	SSB*
TN *	F*
	<b>.</b>
ER*	Recruits*
- Paralessa	Don Est
Listed time series Ta	arget BRP — Rec-Est Im BRP ■ No Data

## Deep-sea smelt Pacific Ocean [DSSMELTPAC]



# 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			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim		-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

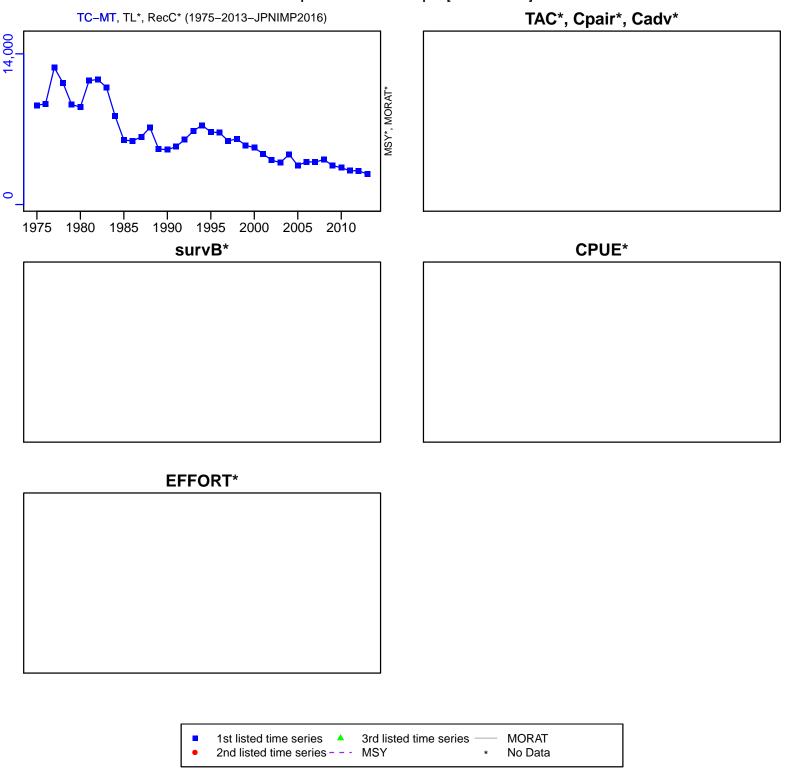
## Deep-sea smelt Sea of Japan [DSSMELTSOJ]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Deep-sea smelt Sea of Japan [DSSMELTSOJ]

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data



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

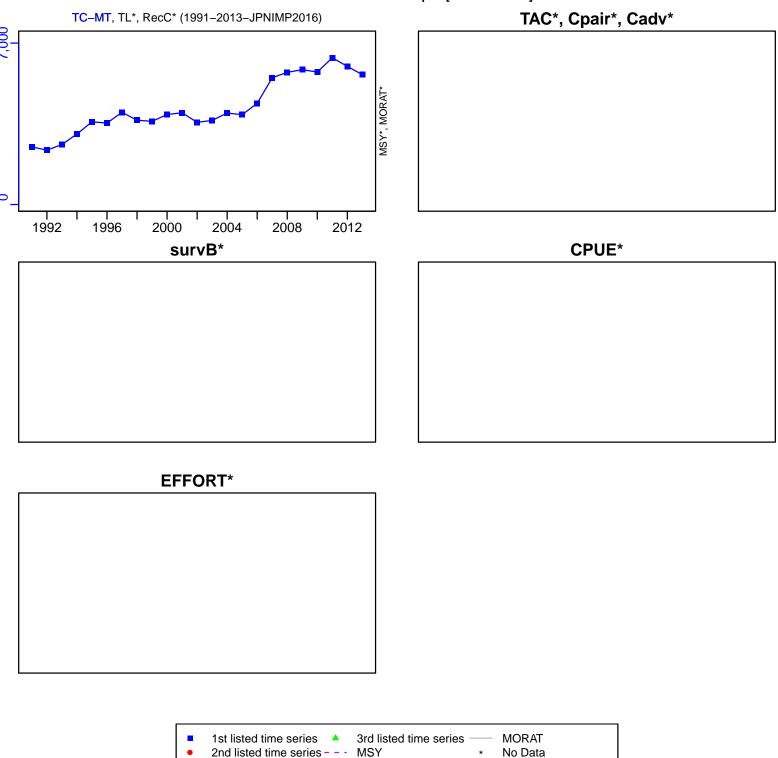
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data



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

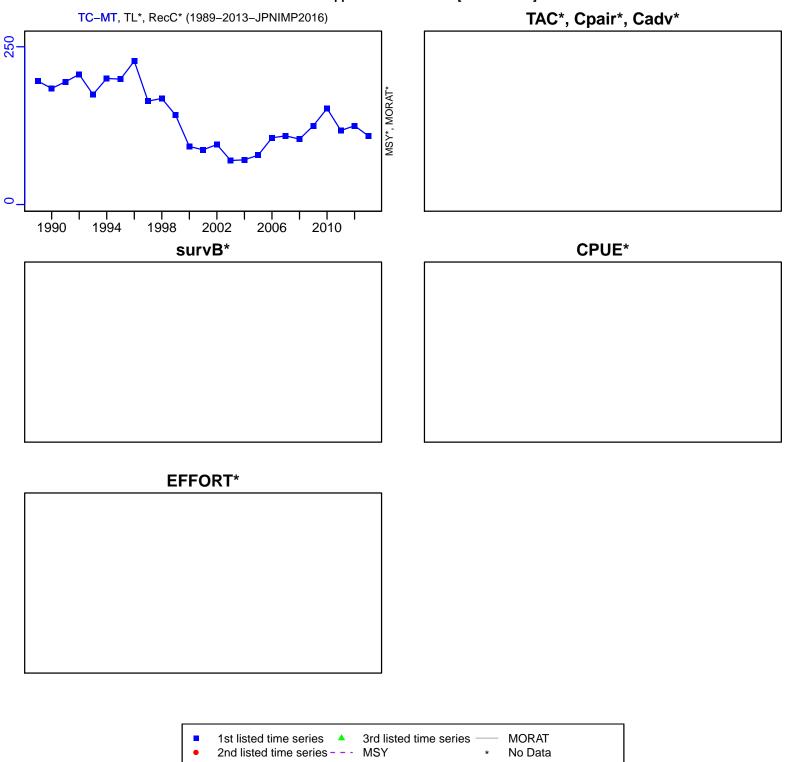
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim		-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data



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		

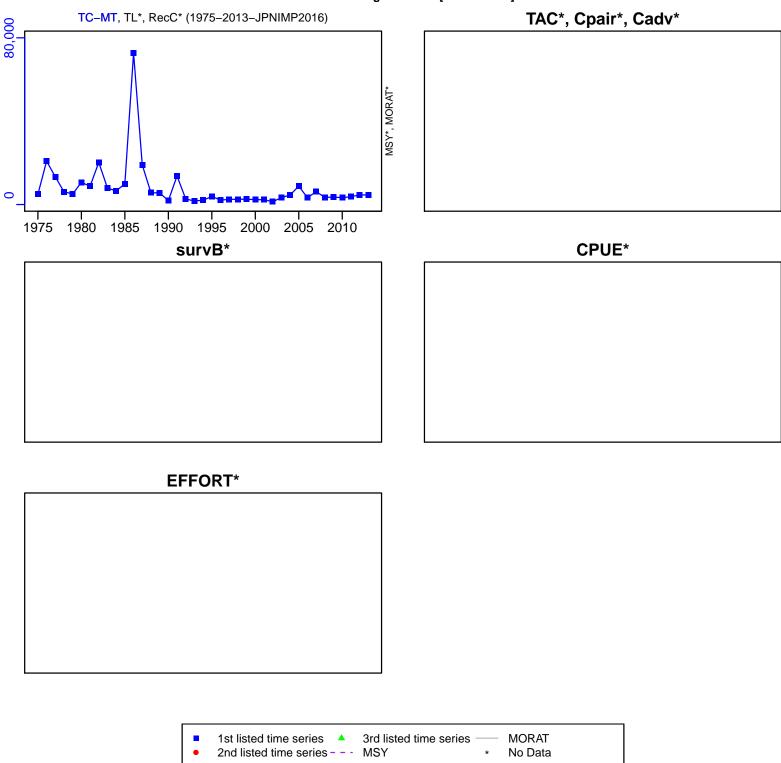
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	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

TB*	SSB*
TN *	<b>F</b> *
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data



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		

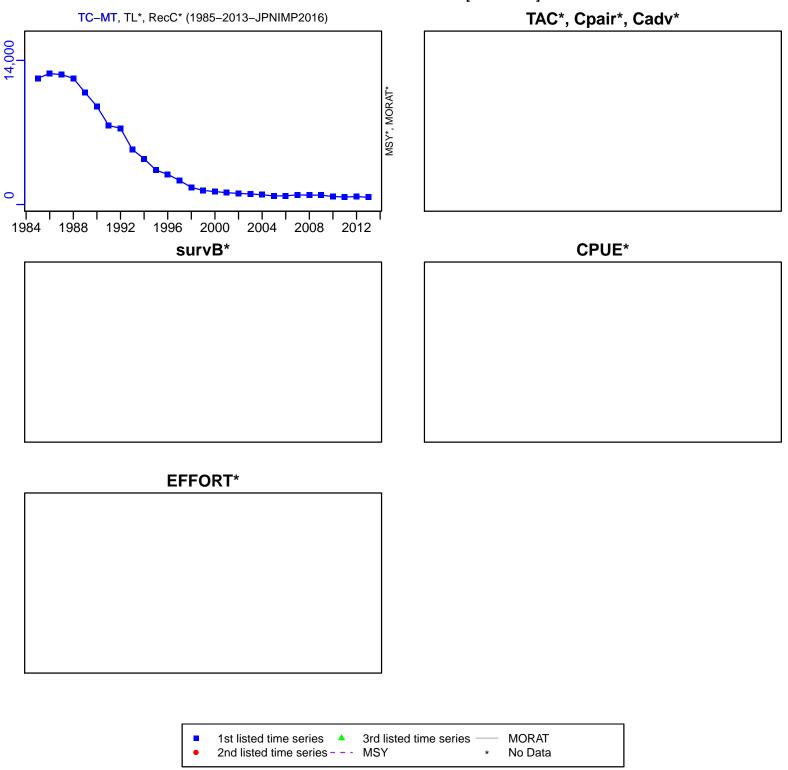
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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*
Snawner Recruit*	Production*
Spawner Recruit*	
Opawner Recitate	
Opawner Recitate	
Opawner Recruit	
Opawner receruit	
Opawner receruit	

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data

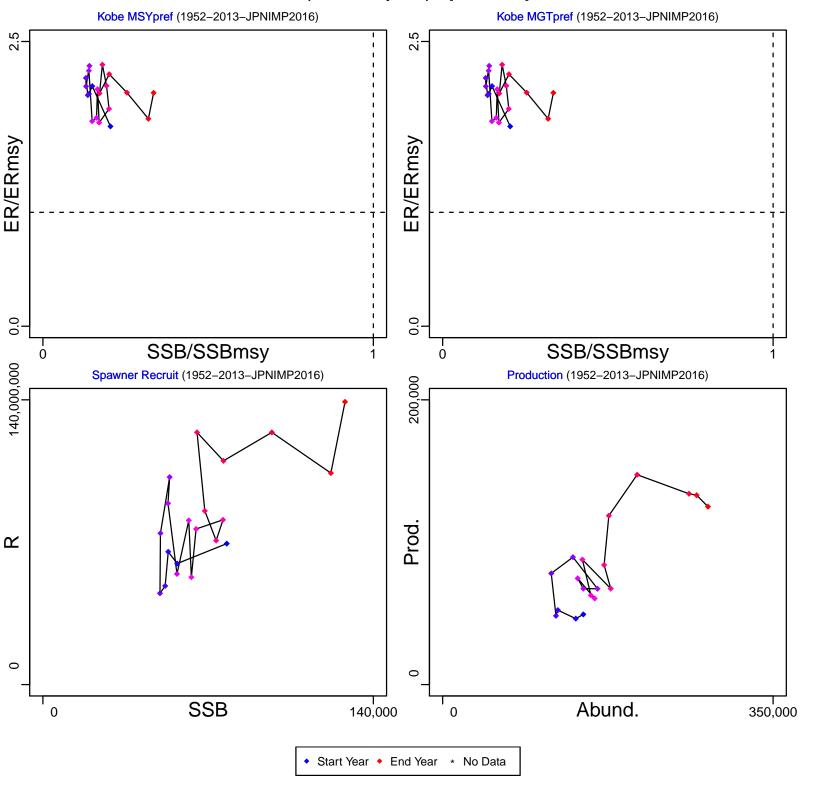


# Japanese amberjack Japan [JAMBERJPN]

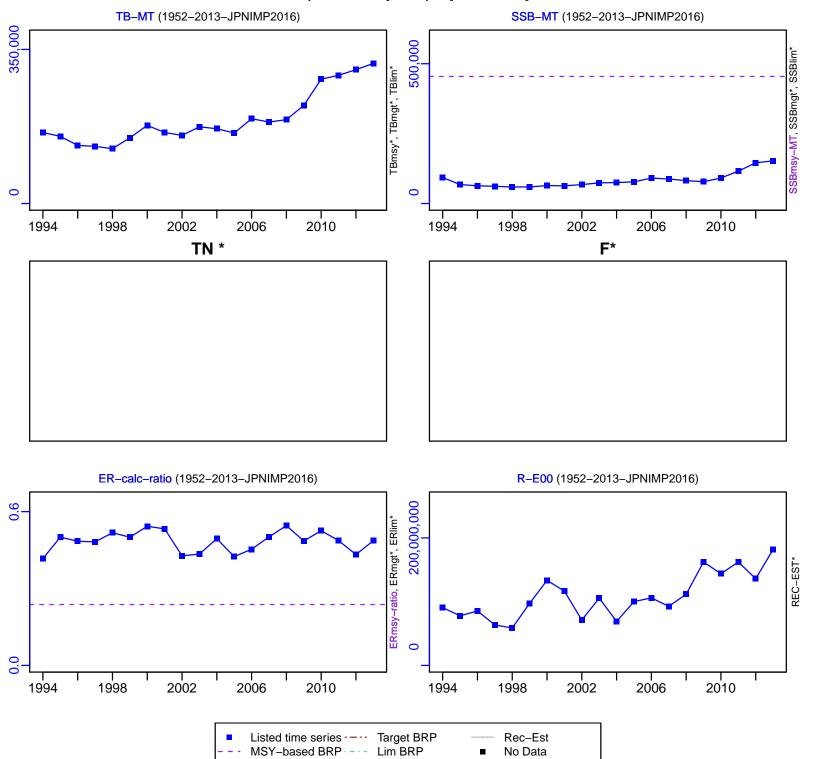
Metadata		
Scientific Name	Seriola quinqueradiata	
Current Assess ID	FAJ-JAMBERJPN-1952-2013-JPNIMP2016	
Area	Japan	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013	

Reference Points			
Туре	ID	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	-	-	-

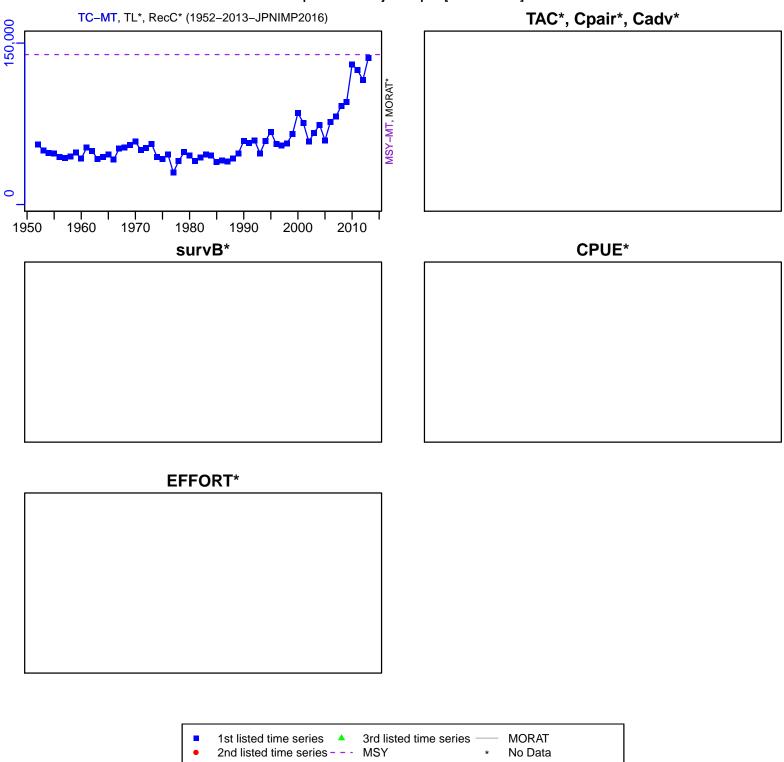
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	294,000	-	0
SSB	SSB-MT	2013	128,000	Both	2
TN	-	-	-	-	-
R	R-E00	2013	$1.39 \times 10^{8}$	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	132,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.34		
F/Fmsy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



#### Japanese amberjack Japan [JAMBERJPN]



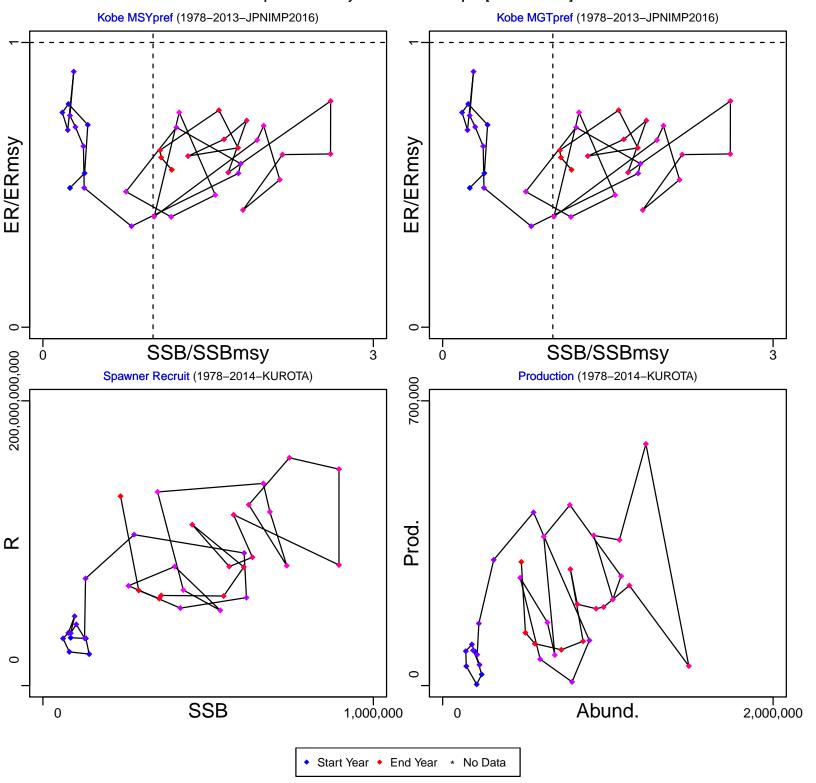
### Japanese amberjack Japan [JAMBERJPN]

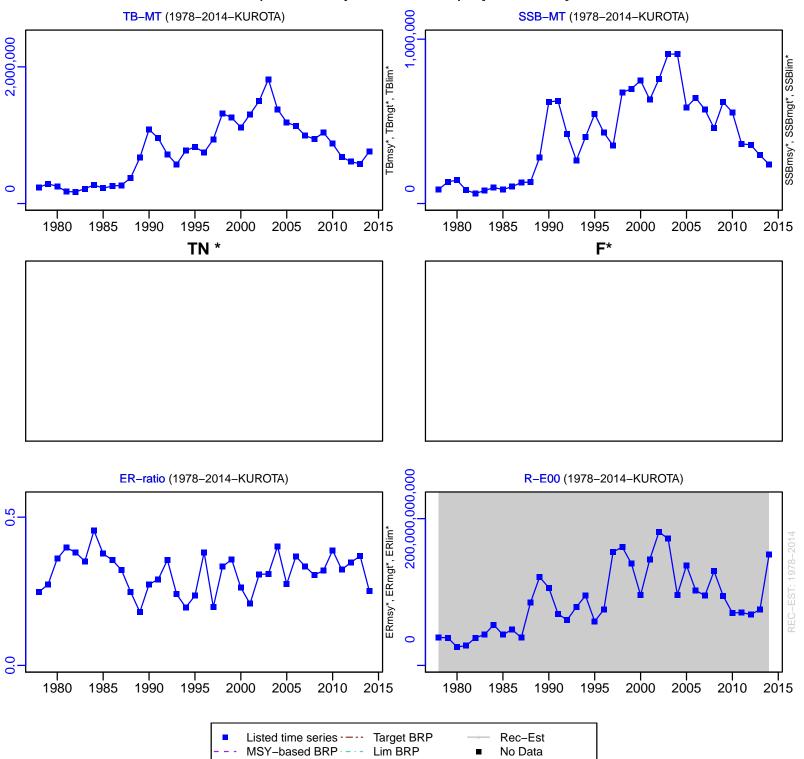


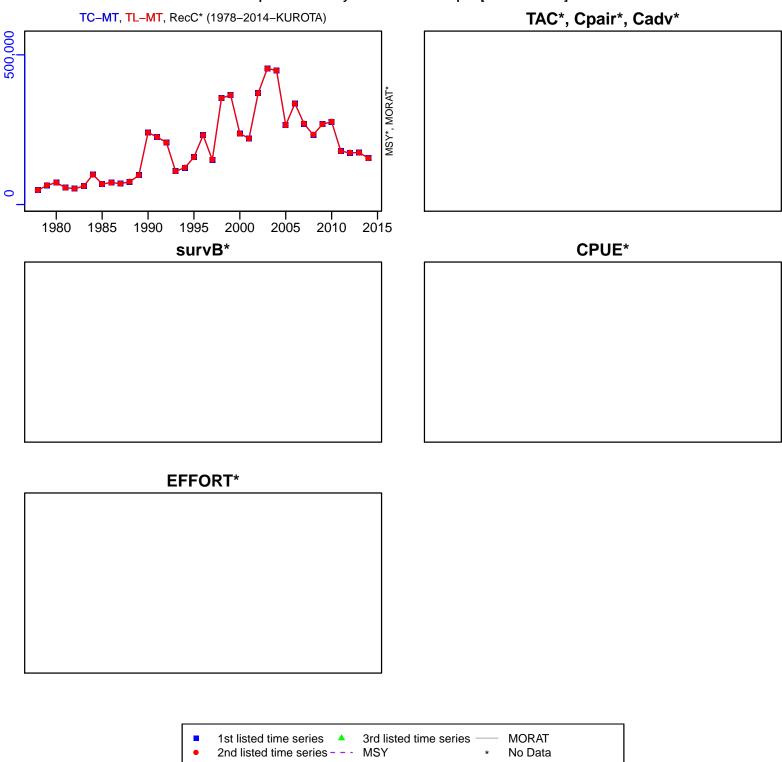
Metadata		
Scientific Name	Engraulis japonicus	
Current Assess ID	FAJ-JANCHOPJPN-1978-2013-JPNIMP2016	
Area	Pacific Coast of Japan	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013, 2014	

Reference Points				
Туре	ID	Value		
TBmsy	-	-	-	
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					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	624,000	Both	0+
SSB	SSB-MT	2014	235,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	$1.33 \times 10^{11}$	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	139,000		
TL	TL-MT	2014	139,000		
TB/TBmsy	-	-	-		
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	-	-	-		



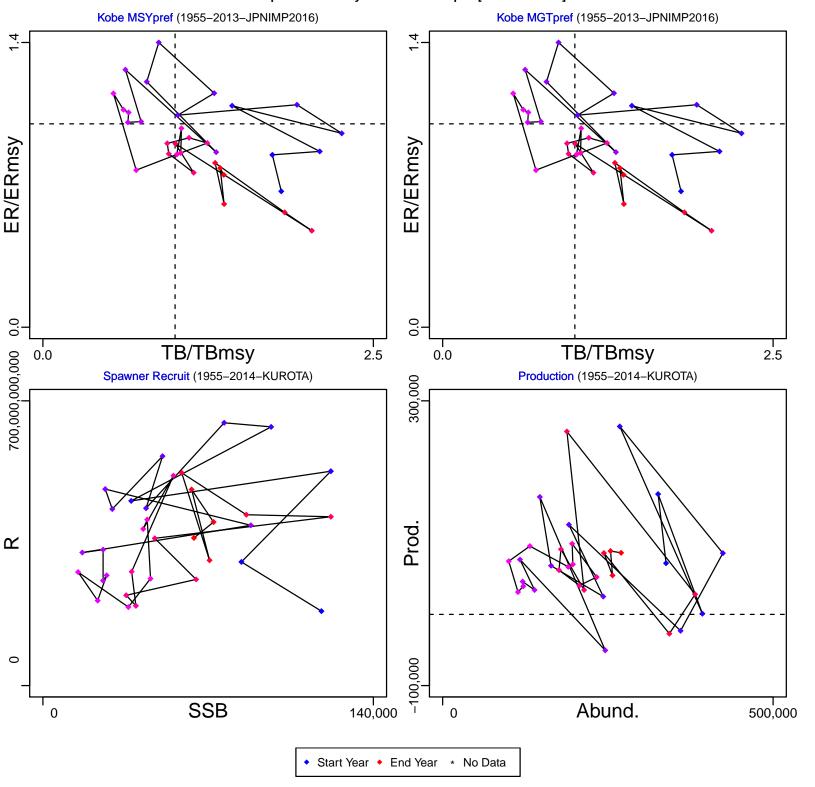


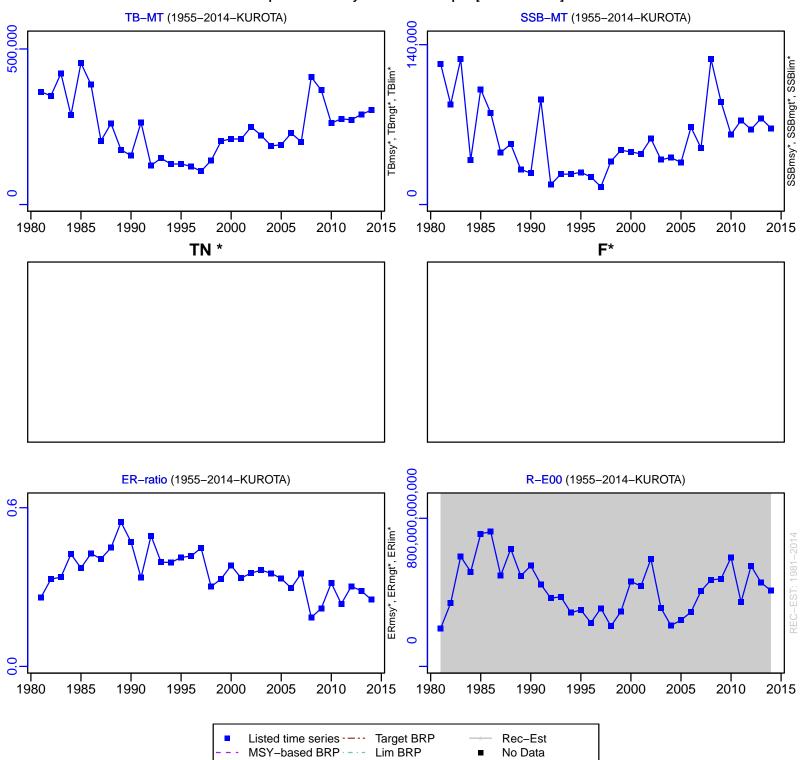


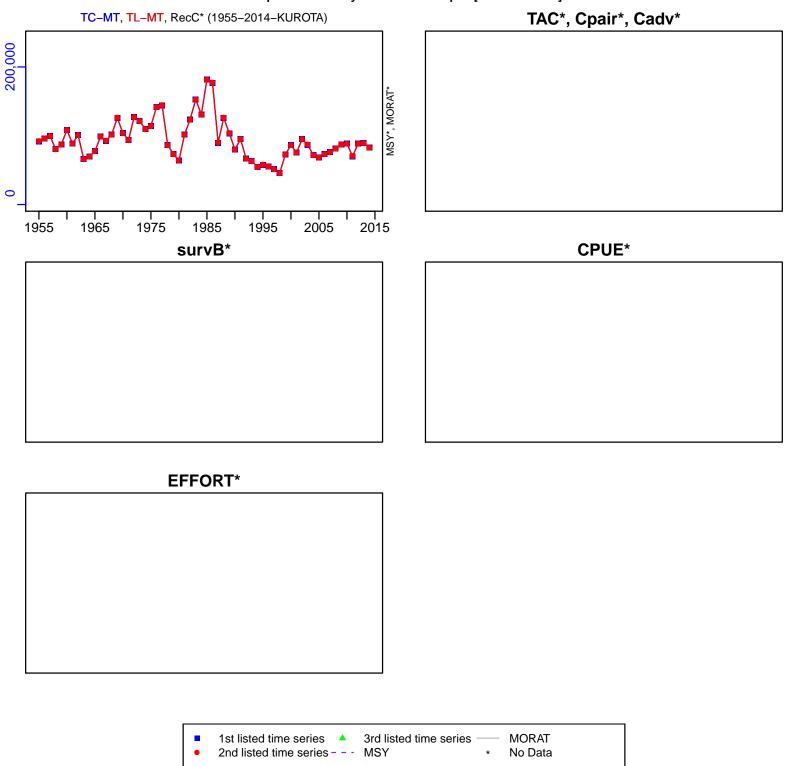
Metadata		
Scientific Name	Engraulis japonicus	
Current Assess ID	FAJ-JANCHOSETO-1955-2013-JPNIMP2016	
Area	Inland Sea of Japan	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013, 2014	

Reference Points			
Туре	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
М	M-1/yr	2014	2.41
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	31,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	283,000	Both	0+
SSB	SSB-MT	2014	64,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	$3.63 \times 10^{11}$	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	-	-	-		







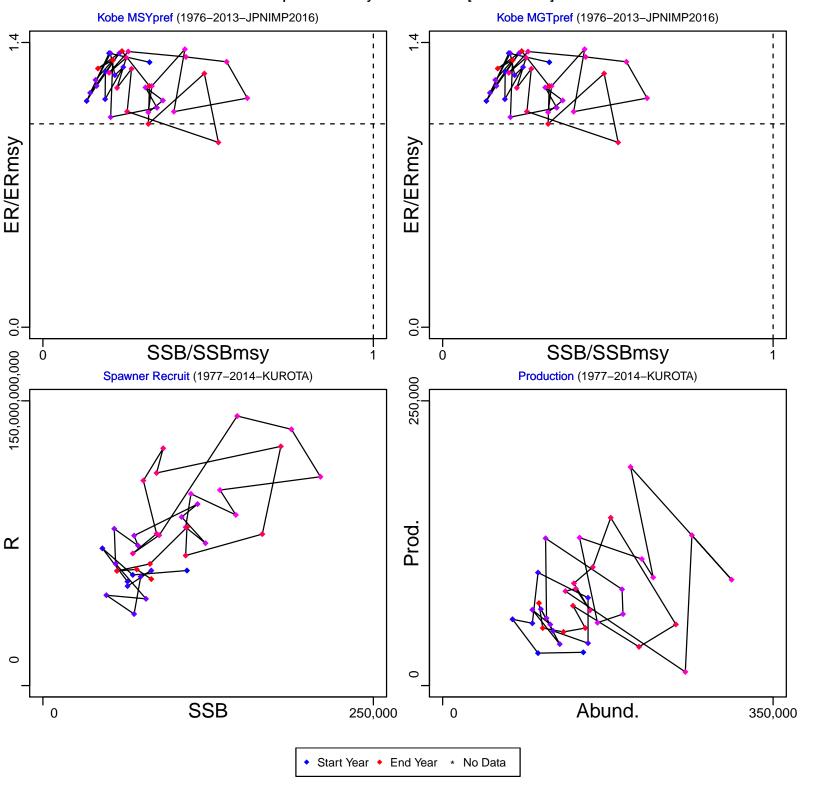
# Japanese anchovy Tsushima Strait [JANCHOTSST]

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	

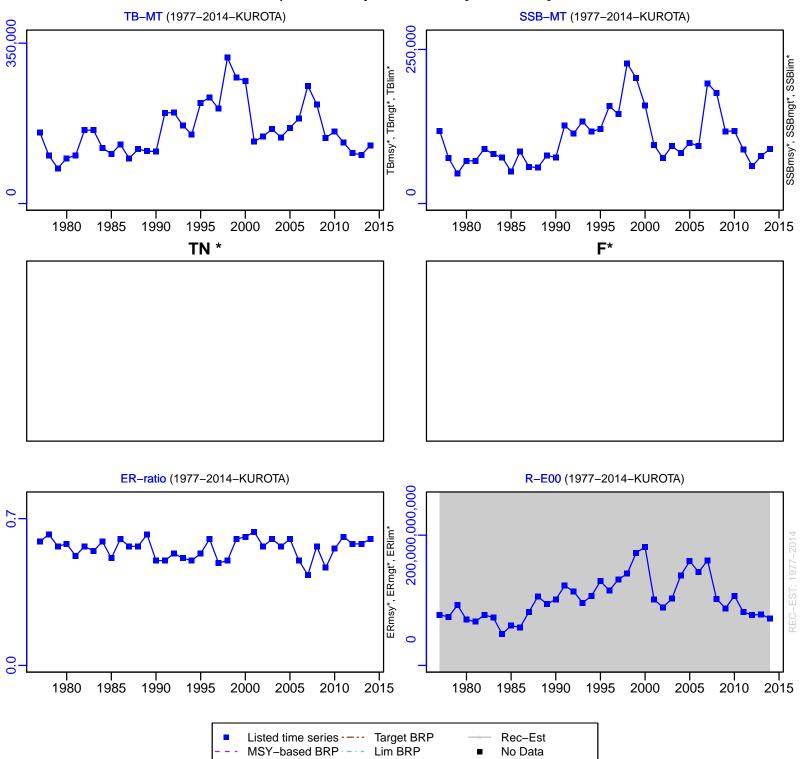
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	SSBmsy-MT	2013	338,932			
Fmsy	-	-	-			
ERmsy	ERmsy-ratio	2013	0.37			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT	2013	149,715			
М	M-1/yr	2014	1			
TBlim	-	-	-			
SSBlim	SSBlim-MT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

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2014	122,000	Both	0+		
SSB	SSB-MT	2014	82,000	-	-		
TN	-	-	-	-	-		
R	R-E00	2014	$5.61\times10^{10}$	Both	0		
F	-	-	-	-	-		
ER	ER-ratio	2014	1	Both	0+		
TC	TC-MT	2014	64,600				
TL	TL-MT	2014	64,600				
TB/TBmsy	-	-	-				
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	-	-	-				

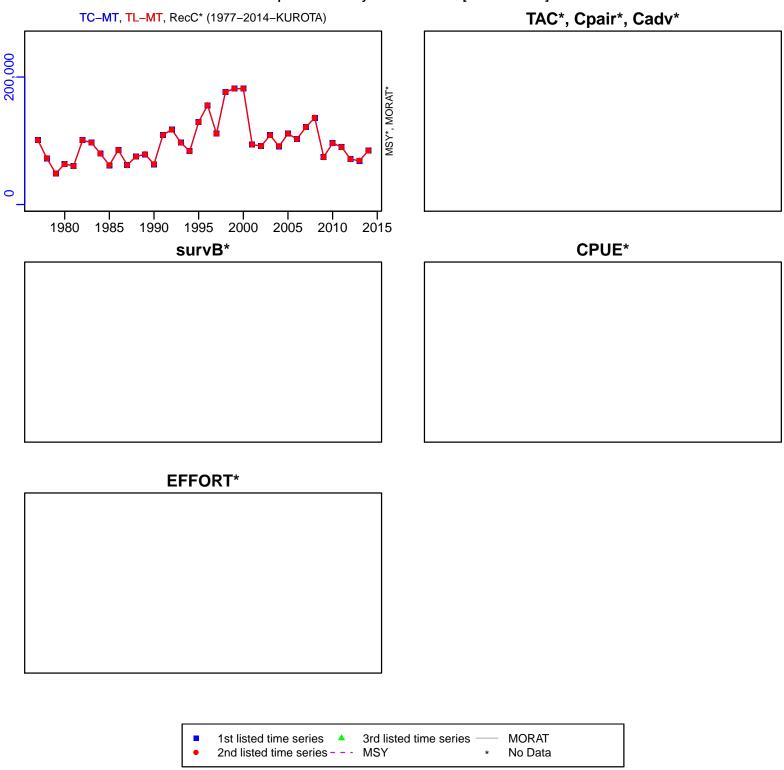
#### Japanese anchovy Tsushima Strait [JANCHOTSST]



#### Japanese anchovy Tsushima Strait [JANCHOTSST]



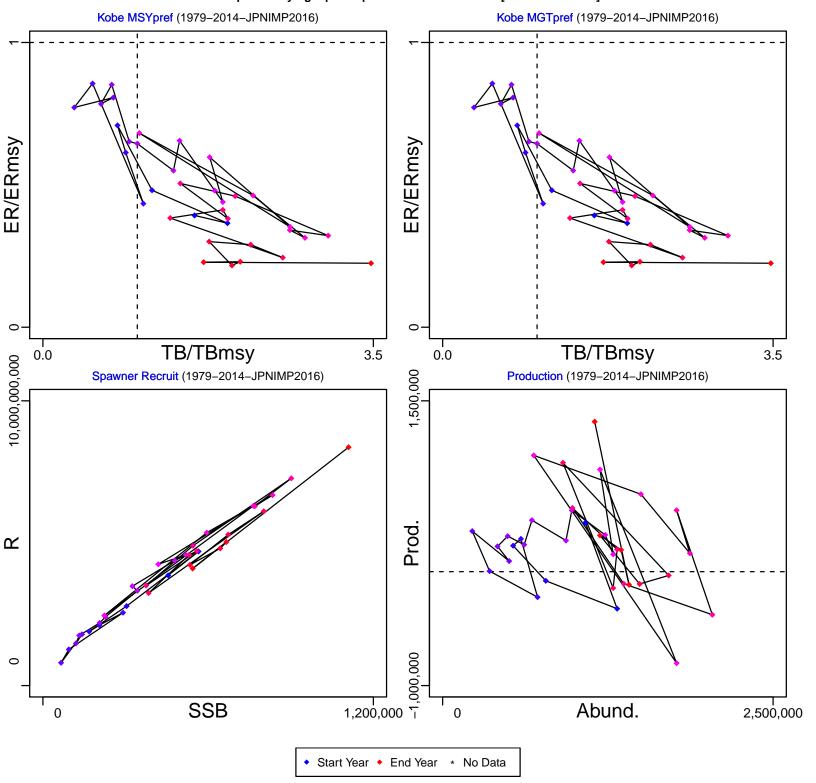
#### Japanese anchovy Tsushima Strait [JANCHOTSST]

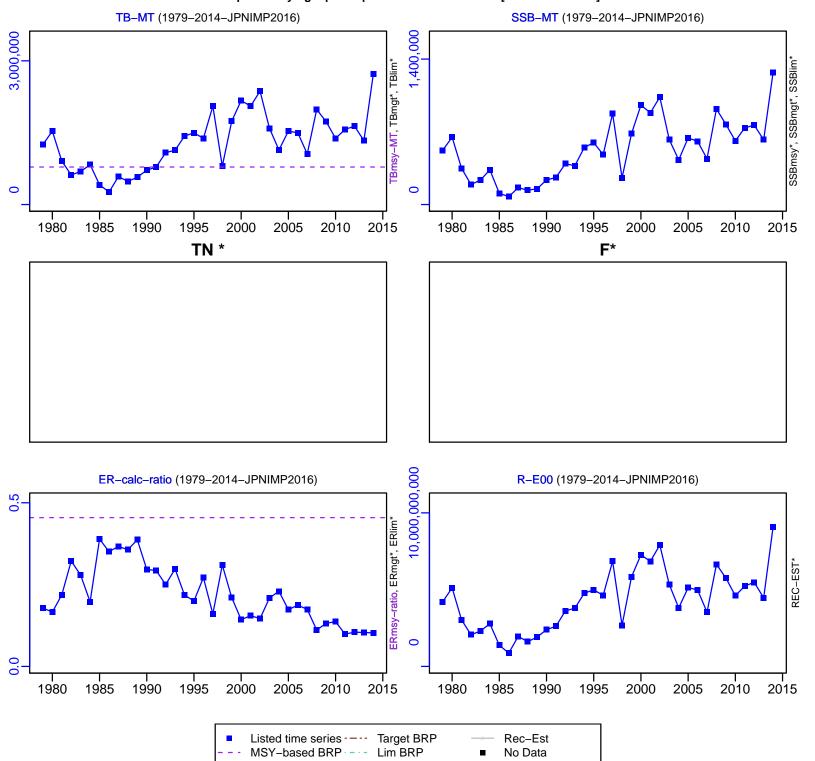


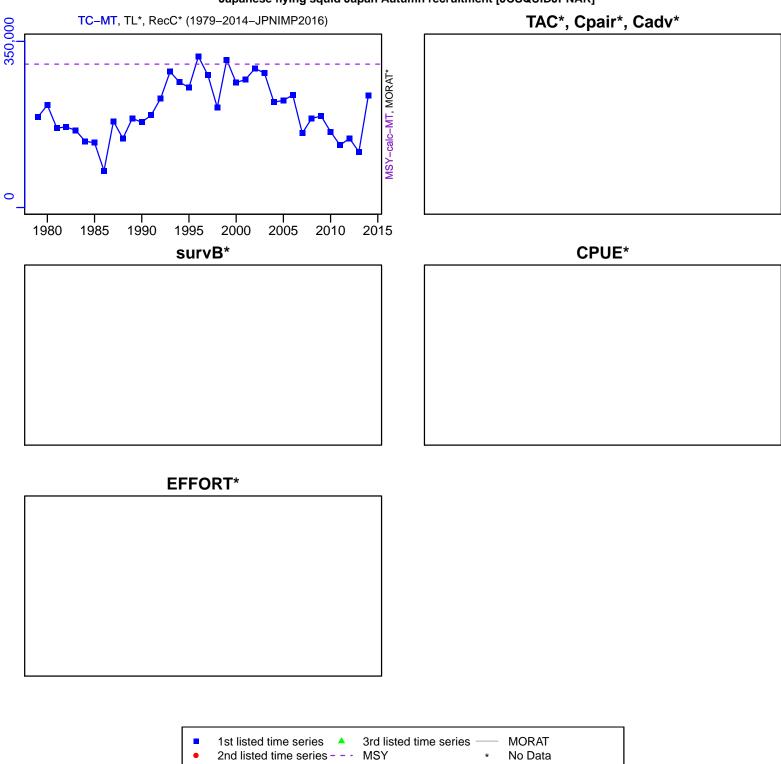
Metadata			
Scientific Name	Todarodes pacificus		
Current Assess ID	FAJ-JCSQUIDJPNAR-1979-2014-JPNIMP2016		
Area Japan Autumn recruitment			
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan		
Assessor	Fisheries Agency of Japan		
Asmts in RAM	2014		

	Reference Points				
Туре	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		
М	M-1/yr	2014	1.2		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	2,350,000	-	0.5
SSB	SSB-MT	2014	1,110,000	Both	0.5
TN	-	-	-	-	-
R	R-E00	2014	$8.37 \times 10^{9}$	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	235,000		
TL	-	-	-	1	
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	-	-	-		



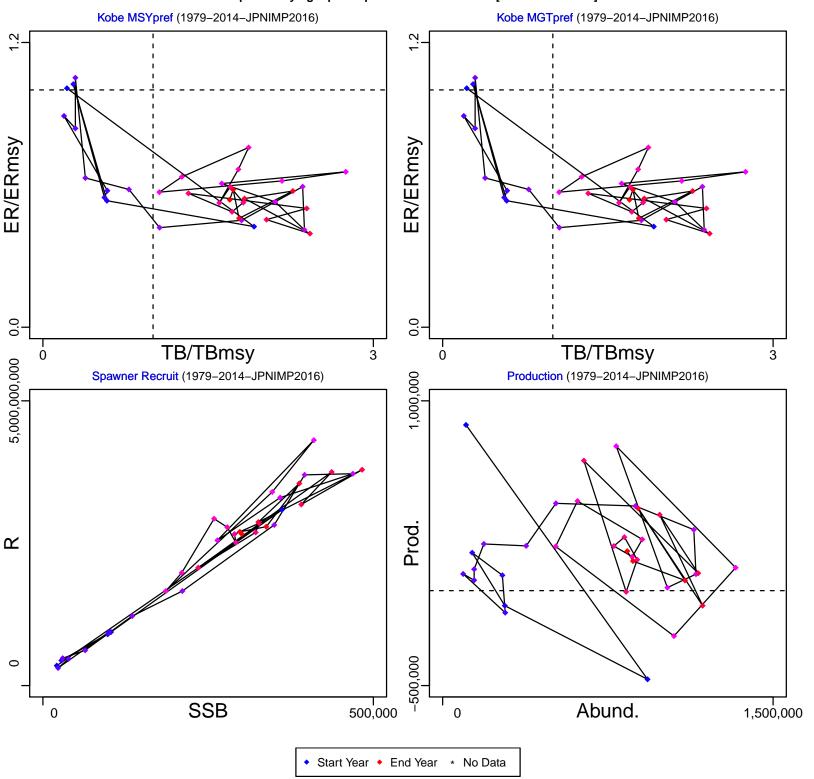


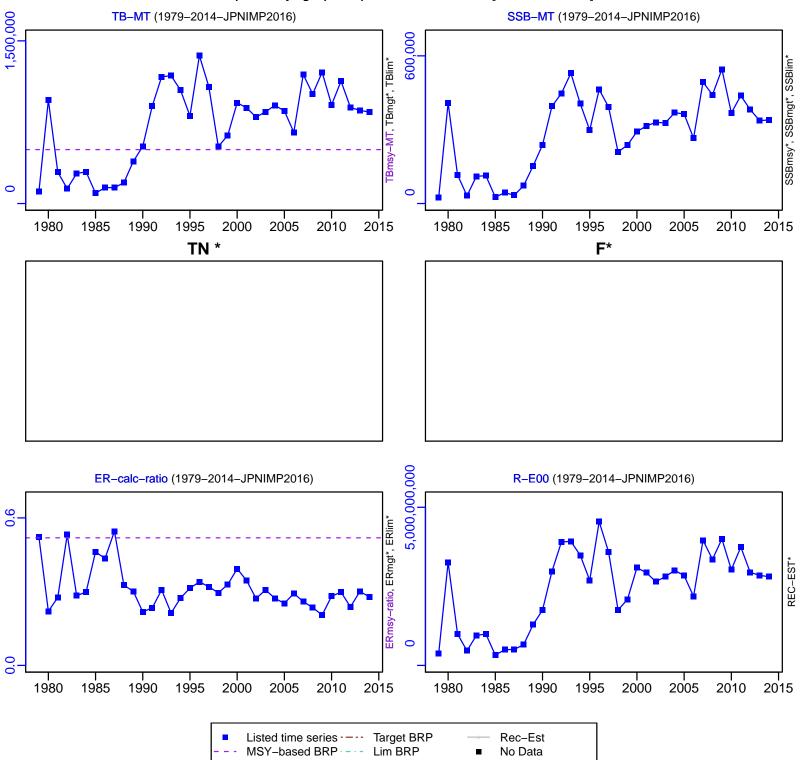


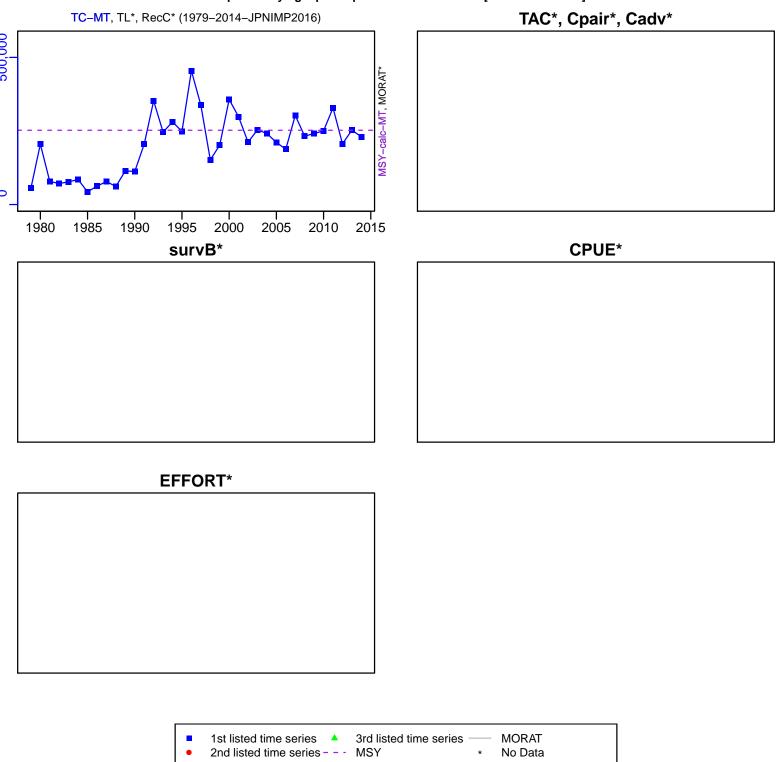
Metadata			
Scientific Name	Todarodes pacificus		
Current Assess ID	FAJ-JCSQUIDJPNWR-1979-2014-JPNIMP2016		
Area Japan Winter recruitment			
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan		
Assessor	Fisheries Agency of Japan		
Asmts in RAM	2014		

	Reference Points				
Туре	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		
М	M-1/yr	2014	1.2		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	823,000	-	0.5
SSB	SSB-MT	2014	301,000	Both	0.5
TN	-	-	-	-	-
R	R-E00	2014	$2.66 \times 10^{9}$	-	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	1	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.54		
TB/TBmgt	-	-	-		
SSB/SSBmgt	1	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



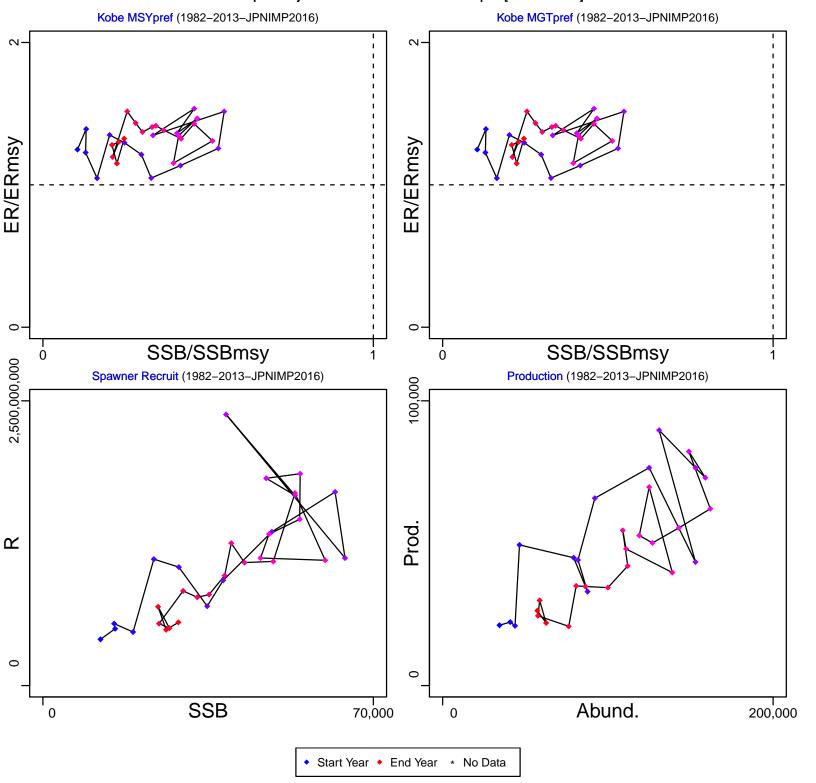


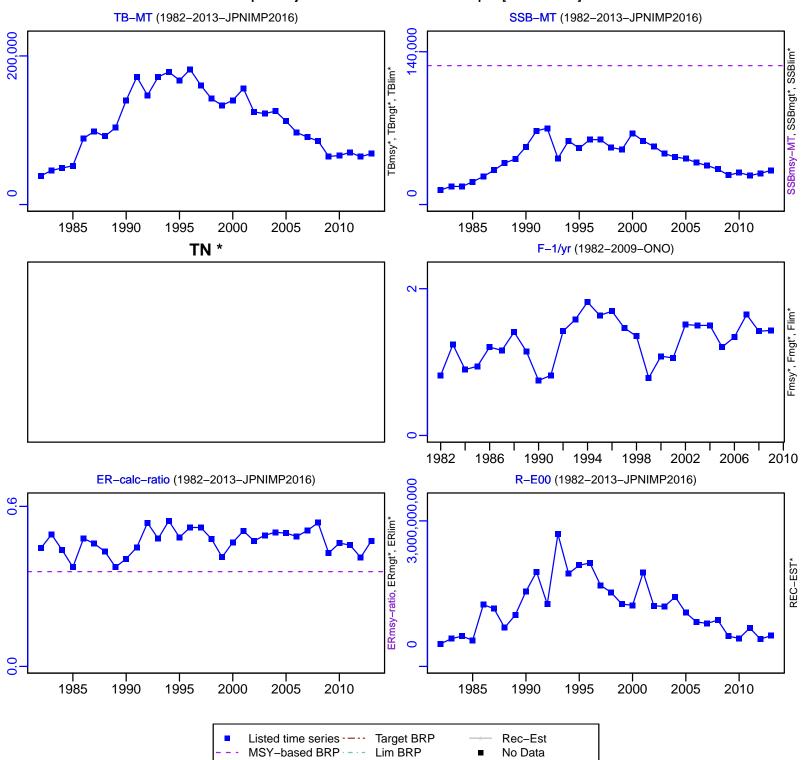


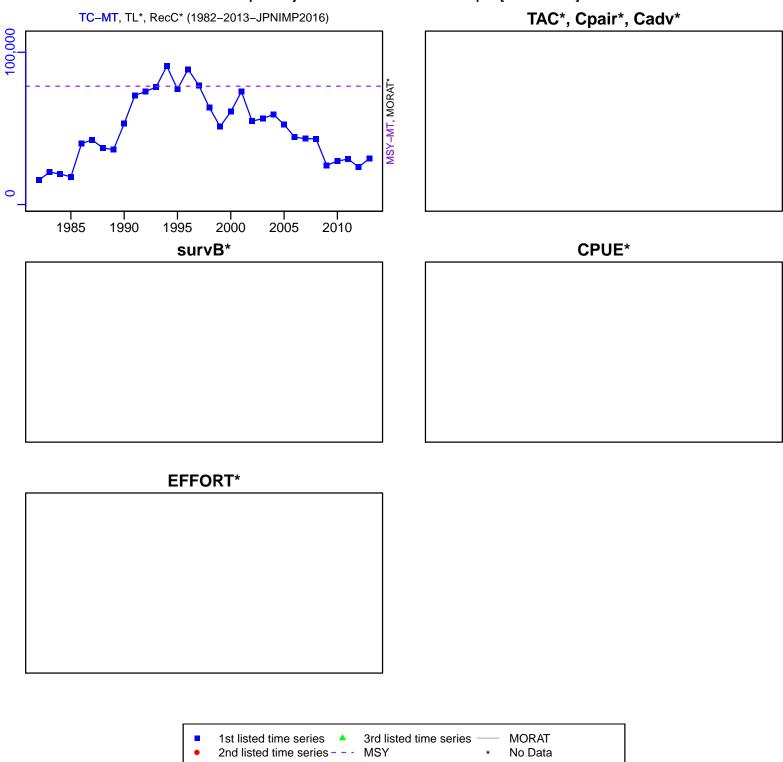
Metadata			
Scientific Name	Trachurus japonicus		
Current Assess ID FAJ-JMACKPJPN-1982-2013-JPNIMP2016			
Area Pacific Coast of Japan			
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan		
Assessor Fisheries Agency of Japan			
Asmts in RAM	2009, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
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	
М	M-1/yr	2013	0.5	
TBlim	TBlim-MT	2009	24	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	61,100	-	0
SSB	SSB-MT	2013	28,700	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.55 \times 10^{8}$	-	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	-	-	-		
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	-	-	-		



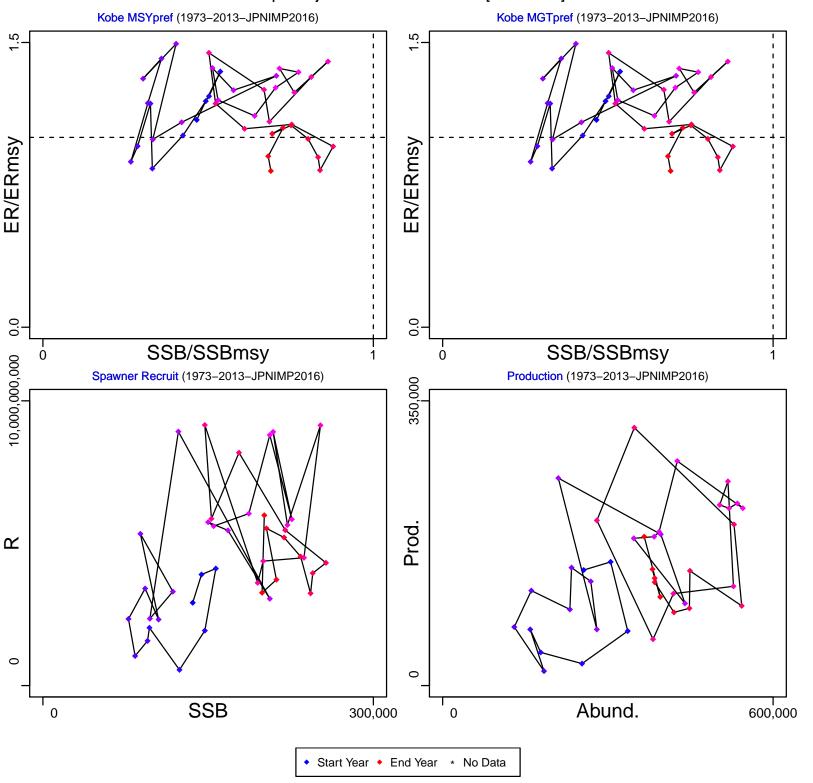


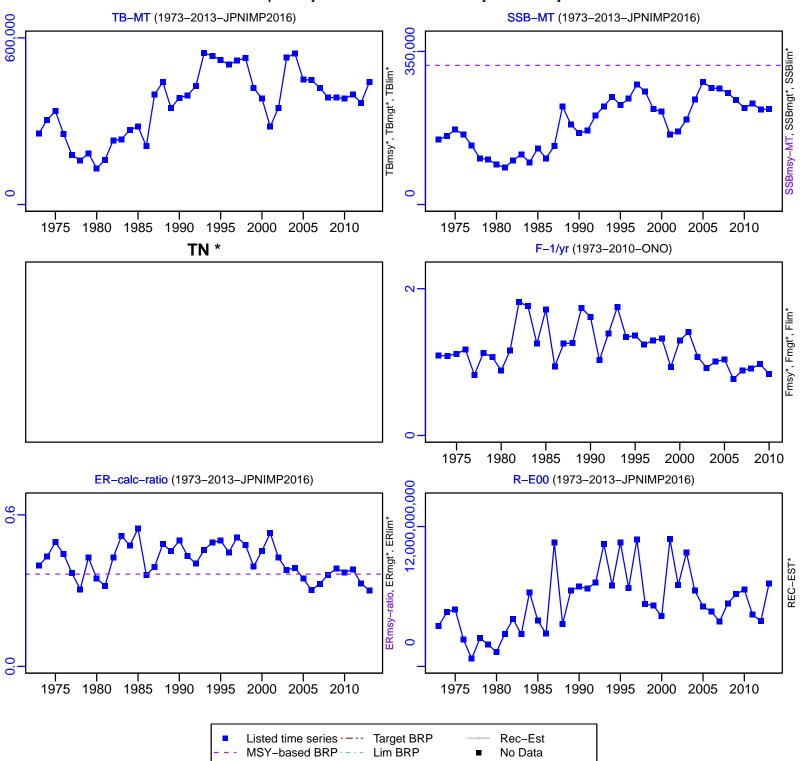


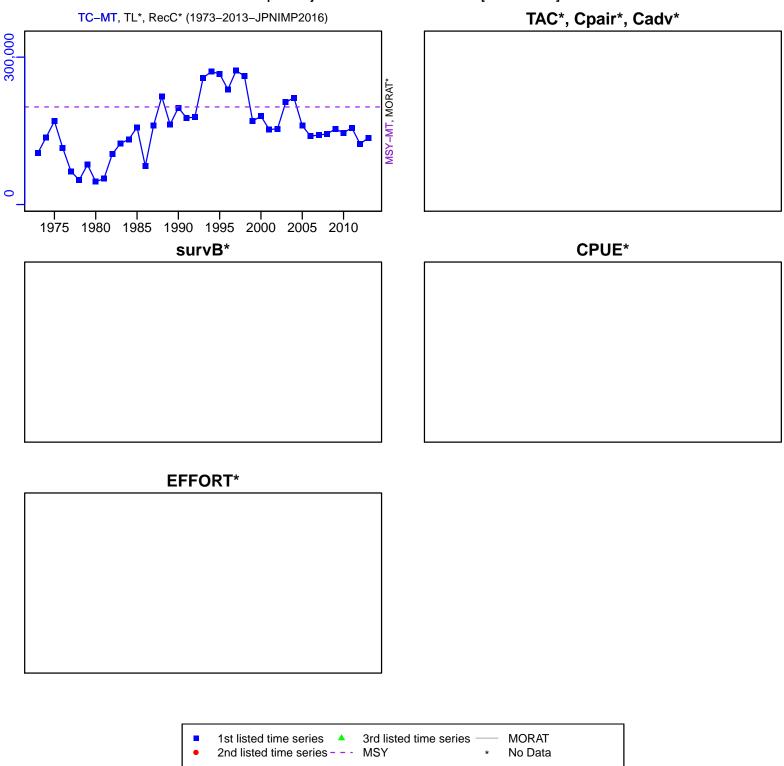
Metadata			
Scientific Name	Trachurus japonicus		
Current Assess ID	FAJ-JMACKTSST-1973-2013-JPNIMP2016		
Area Tsushima Strait			
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan		
Assessor	Fisheries Agency of Japan		
Asmts in RAM	2010, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
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	
М	M-1/yr	2013	0.5	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	150,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	440,000	-	0
SSB	SSB-MT	2013	201,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.98 \times 10^{9}$	-	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	-	-	-		
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	-	-	-		



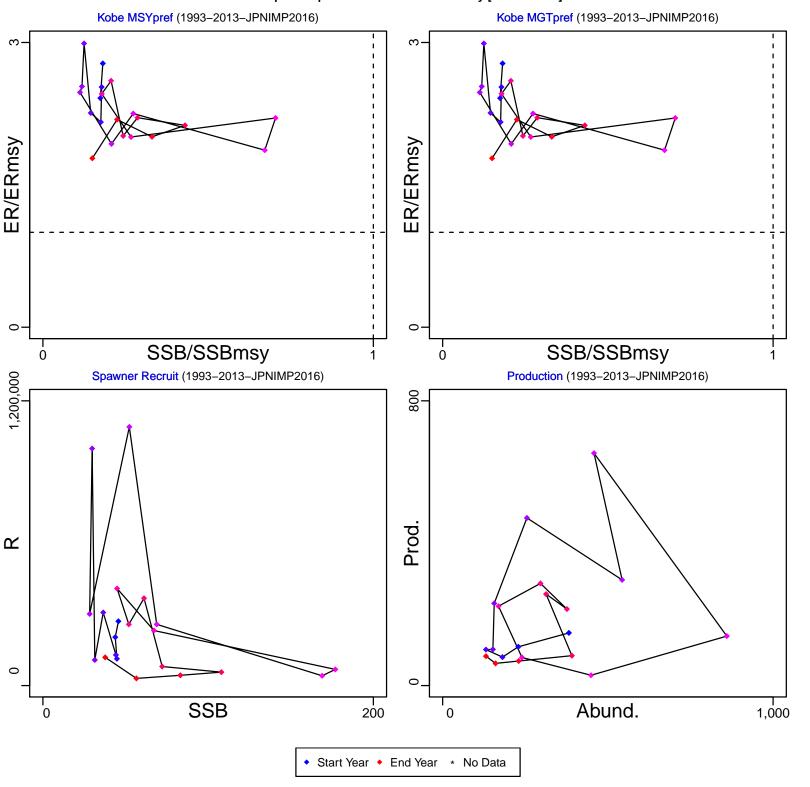


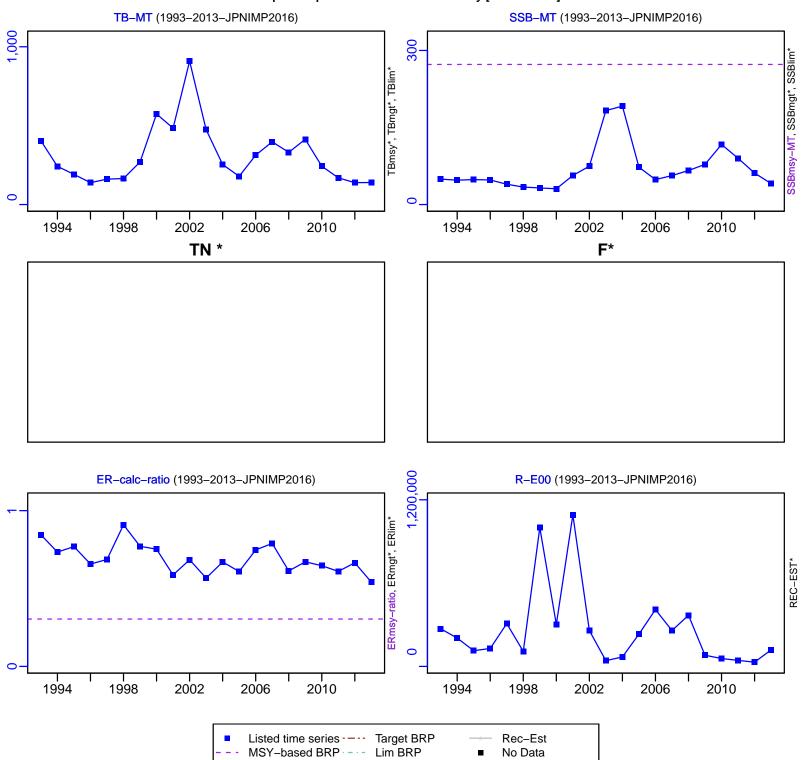


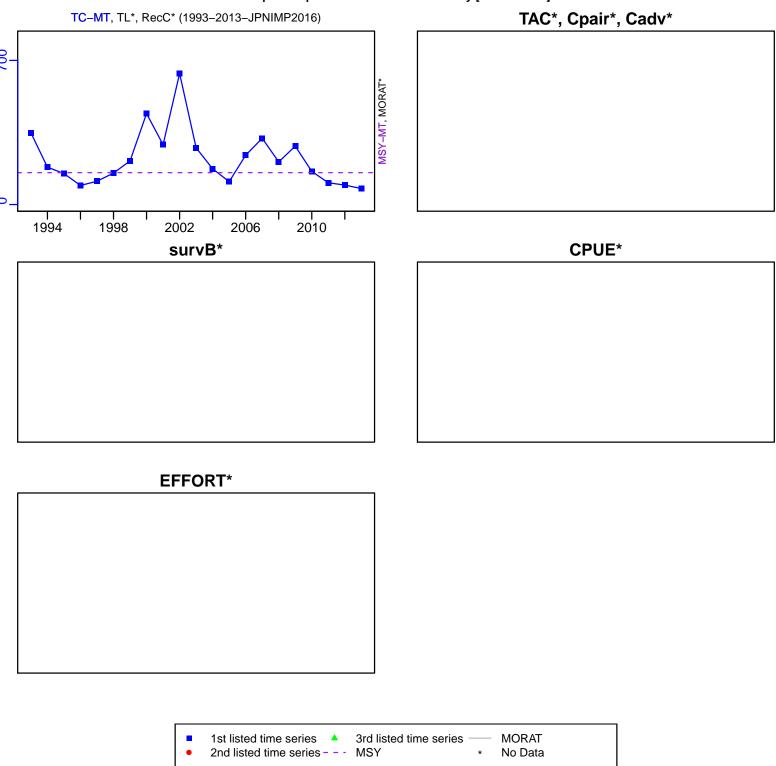
Metadata		
Scientific Name	Takifugu rubripes	
Current Assess ID	FAJ-JPUFFIMKB-1993-2013-JPNIMP2016	
Area	Ise and Mikawa Bay	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013	

Reference Points				
Туре	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					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		







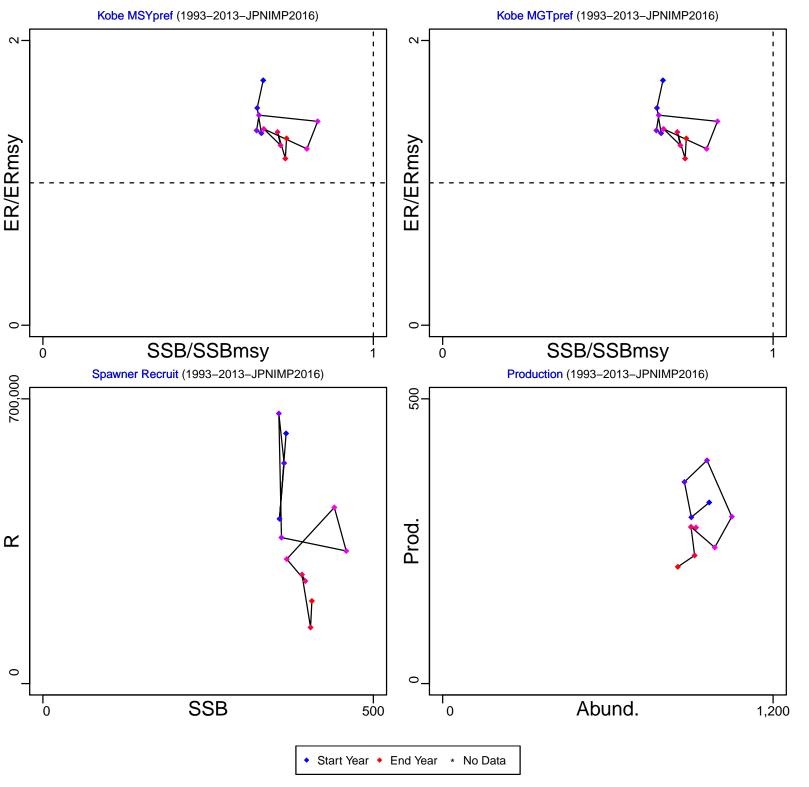
# Japanese pufferfish Sea of Japan and East China Sea and Seto Inland sea [JPUFFSOJECSSI]

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	ent Authority Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013	

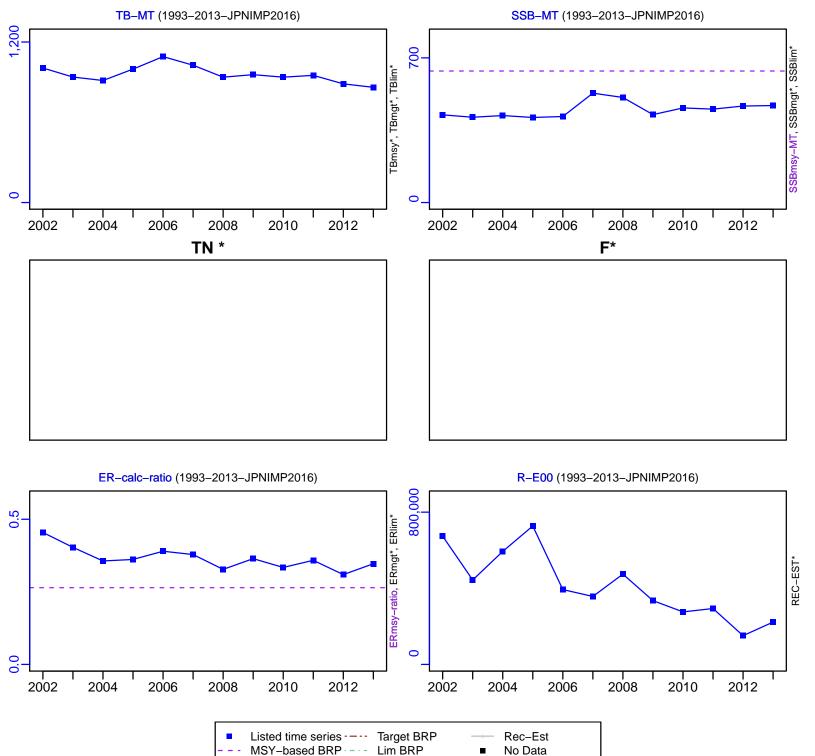
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2013	552	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.23	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	258	
M	M-1/yr	2013	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

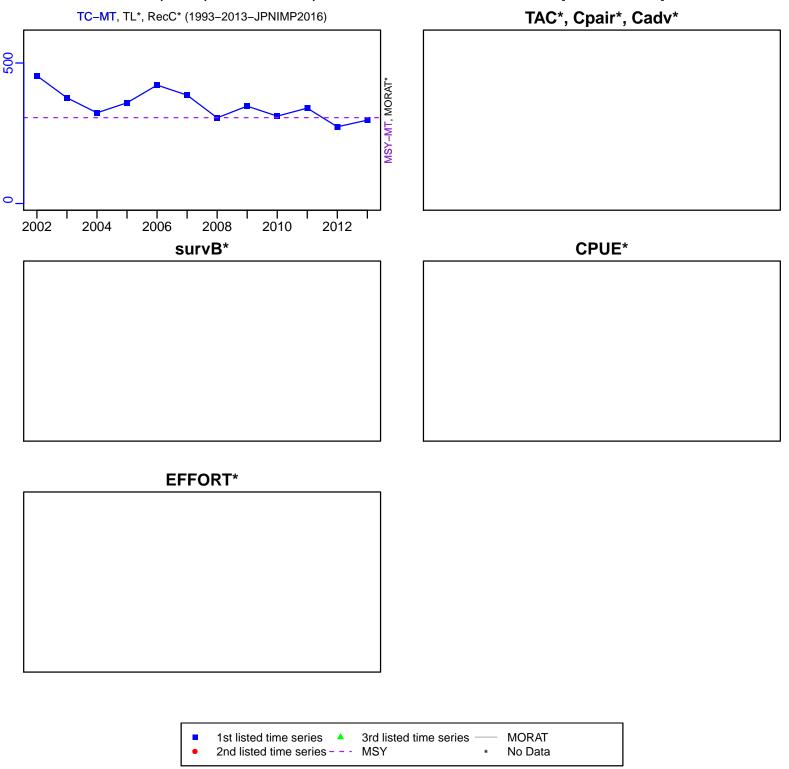
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	829	-	0
SSB	SSB-MT	2013	407	Both	3
TN	-	-	-	-	-
R	R-E00	2013	203,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	250		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.74		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio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



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





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	

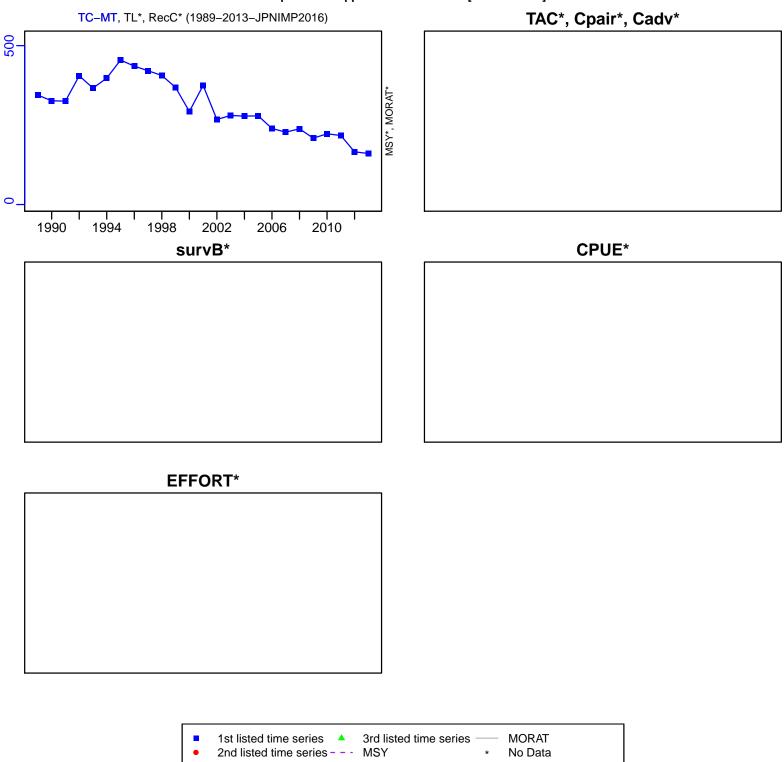
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

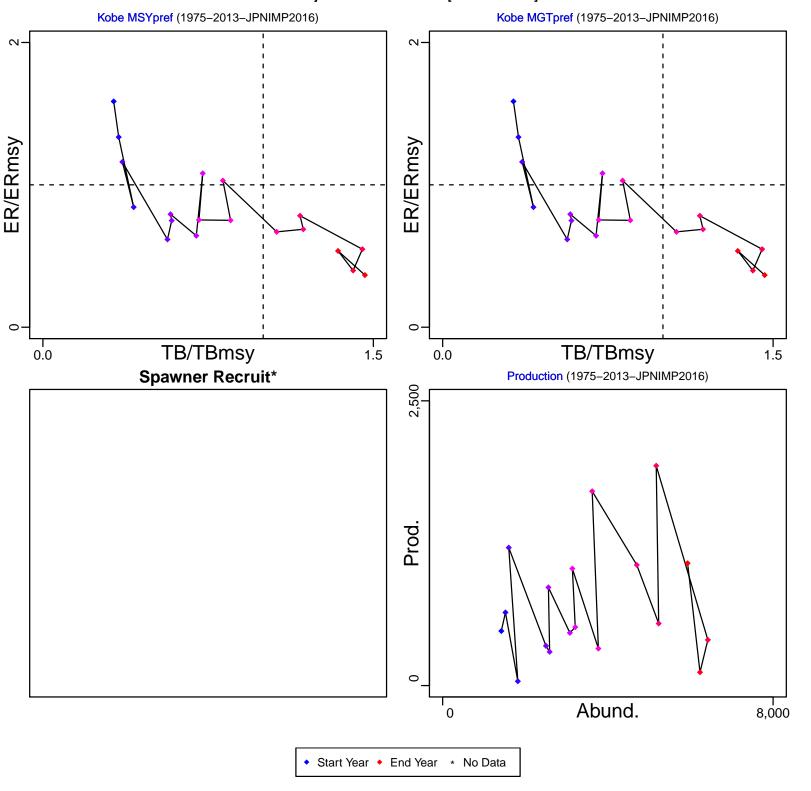
TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data

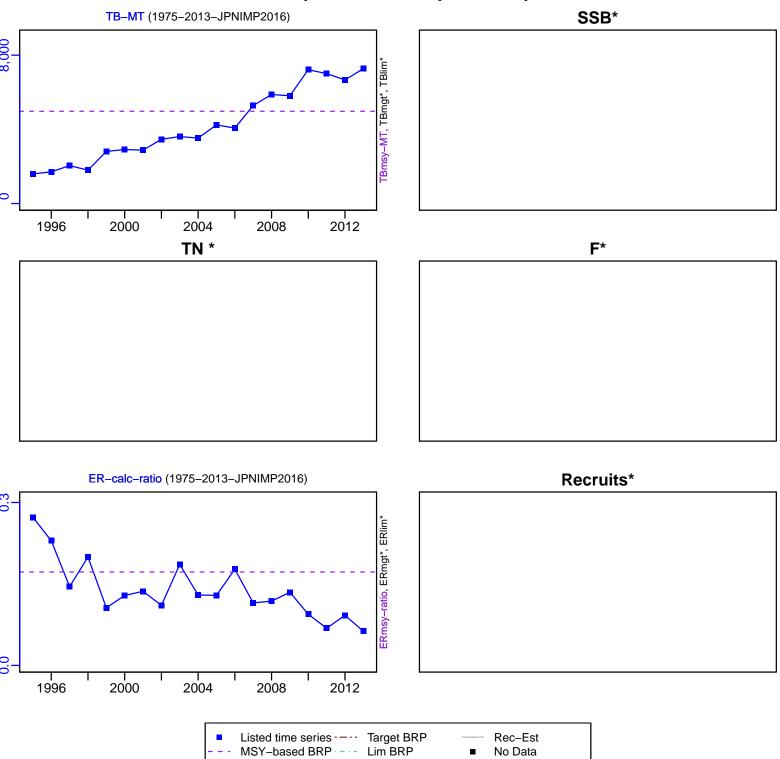


Metadata		
Scientific Name	Sebastolobus macrochir	
Current Assess ID	FAJ-KCROCKNPAC-1975-2013-JPNIMP2016	
Area	North Pacific	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013	

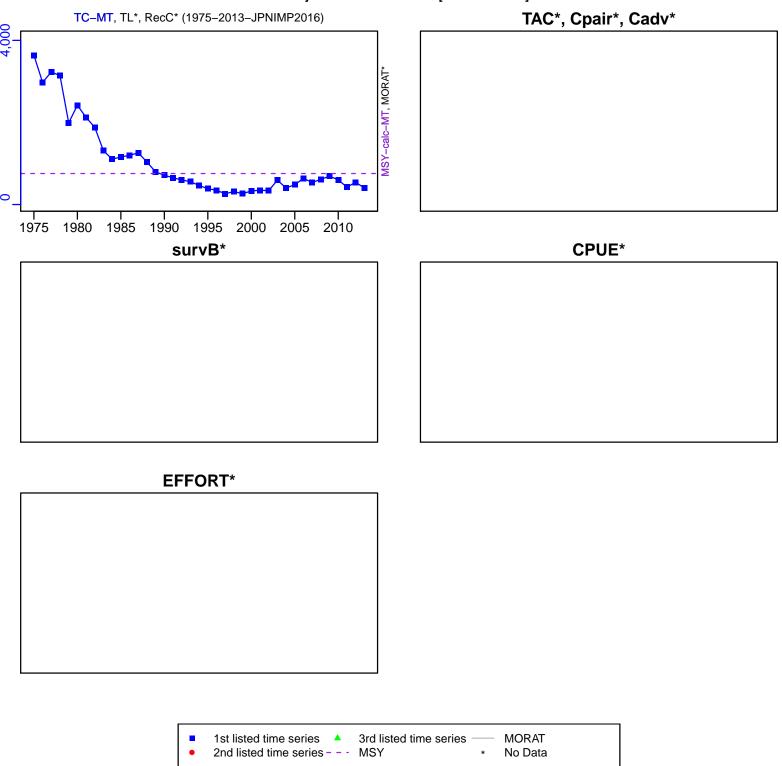
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	4426
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.17
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	744
М	M-1/yr	2013	0.12
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		





No Data



# 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

F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series	i		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

## Kichiji rockfish Okhotsk Sea [KCROCKOKS]

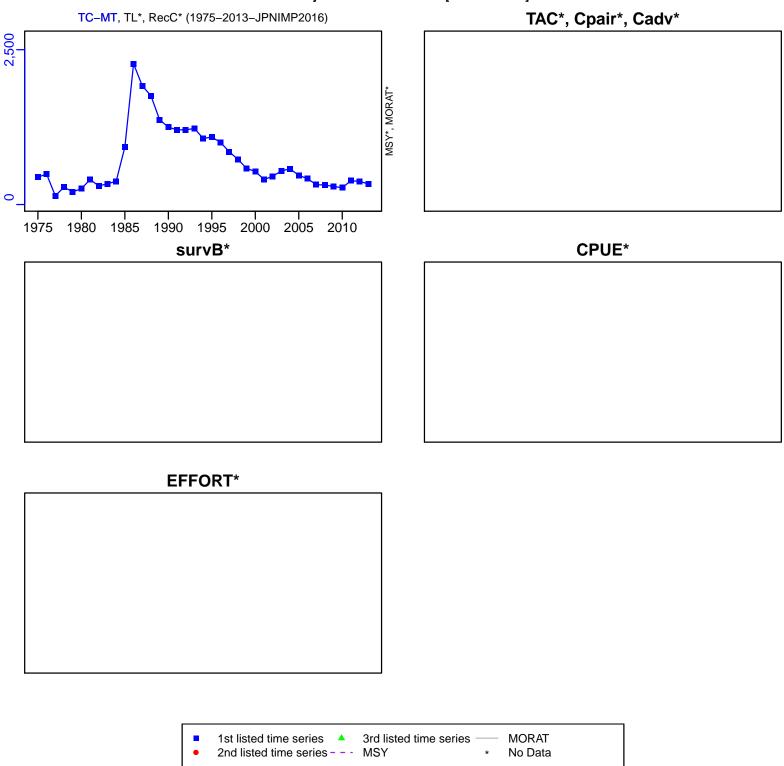
Kobe MSY*	Kobe MGT*
	J
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Kichiji rockfish Okhotsk Sea [KCROCKOKS]

TB*	SSB*
TN *	F*
ED*	Doowito*
ER*	Recruits*
	J
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data

## Kichiji rockfish Okhotsk Sea [KCROCKOKS]



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

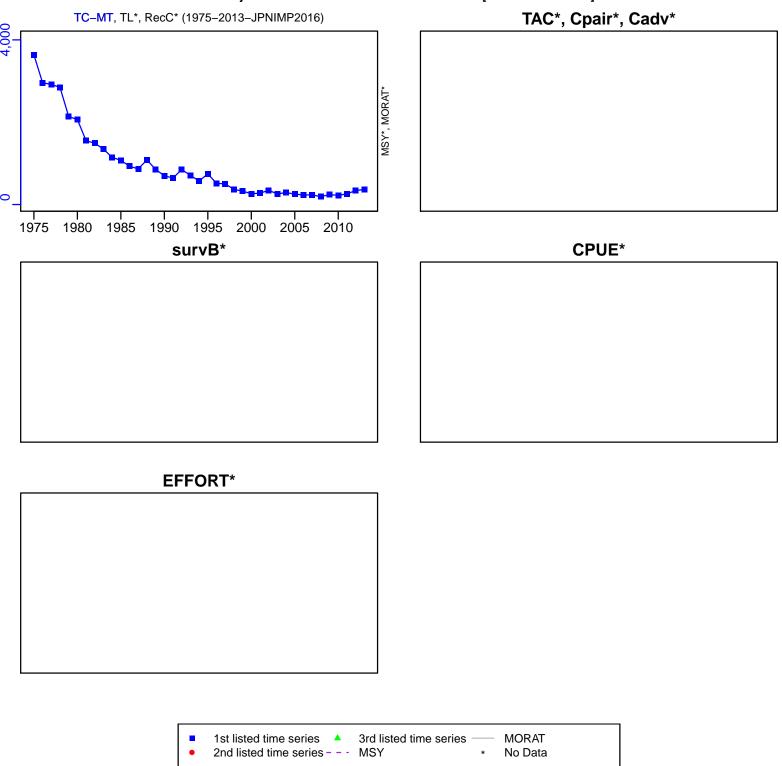
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim		-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	m BRP ■ No Data



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

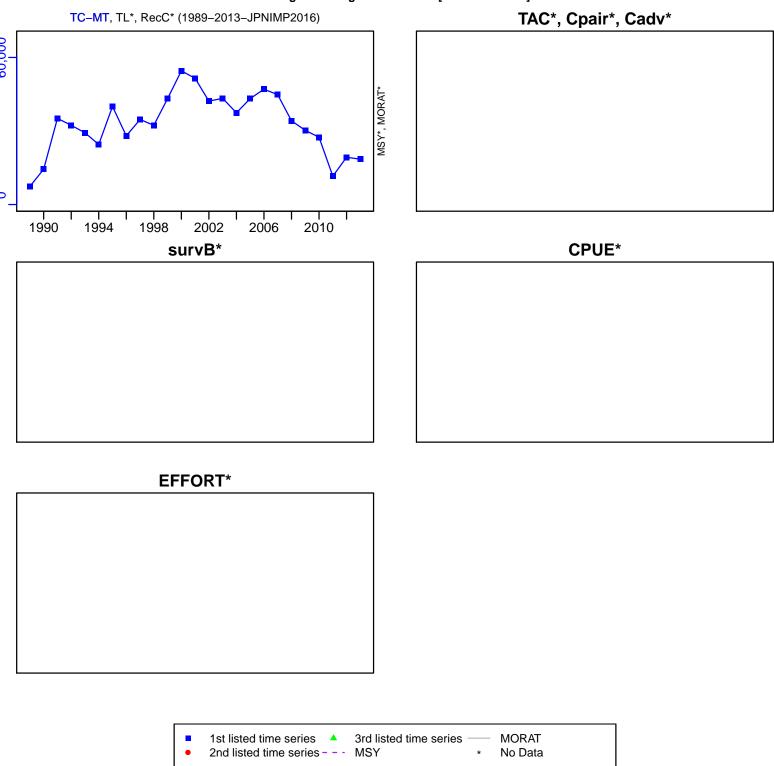
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data



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

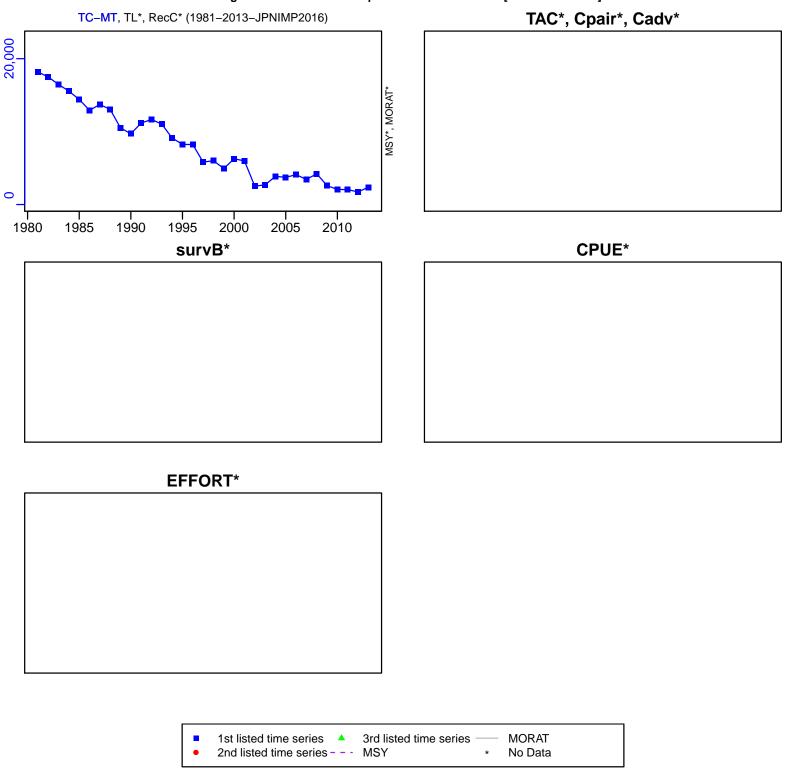
Reference Points							
Туре							
TBmsy	-	-	-				
SSBmsy	-	-	-				
Fmsy	-	-	-				
ERmsy	-	-	-				
TBmgt	-	-	-				
SSBmgt	-	-	-				
Fmgt	-	-	-				
ERmgt	-	-	-				
TB0	-	-	-				
SSB0	-	-	-				
MSY	-	-	-				
M	-	-	-				
TBlim	-	-	-				
SSBlim	-	-	-				
Flim	-	-	-				
ERlim	-	-	-				

Time Series						
Туре	ID Asmt Year Curr Value Sex Ag					
ТВ	-	-	-	-	-	
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*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	<b>F</b> *
ER*	Recruits*
<b>⊑</b> K	Recruits
Listed time series Ta	arget BRP — Rec-Est
MSY-based BRP Li	m BRP ■ No Data



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	

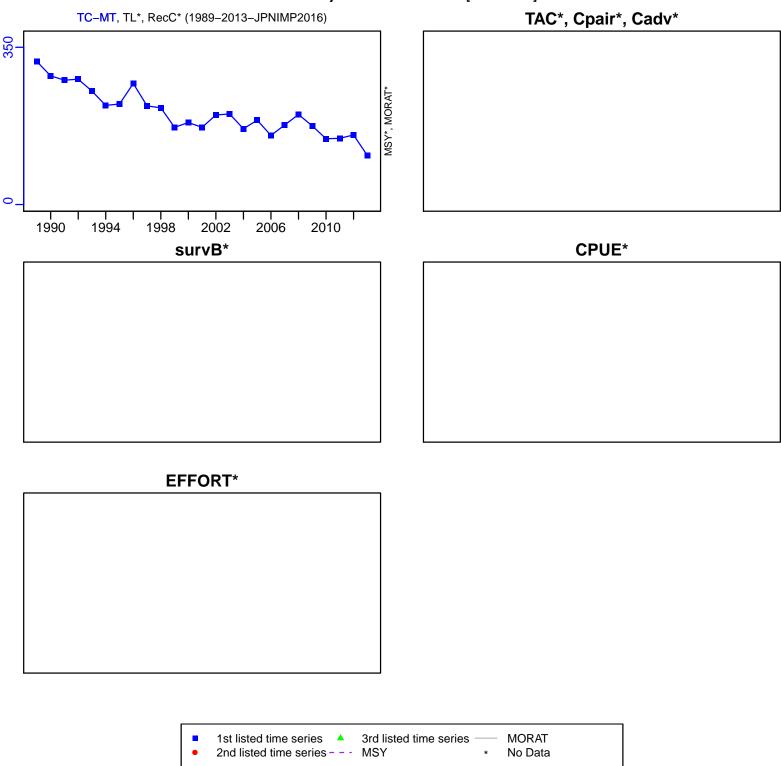
Reference Points							
Туре							
TBmsy	-	-	-				
SSBmsy	-	-	-				
Fmsy	-	-	-				
ERmsy	-	-	-				
TBmgt	-	-	-				
SSBmgt	-	-	-				
Fmgt	-	-	-				
ERmgt	-	-	-				
TB0	-	-	-				
SSB0	-	-	-				
MSY	-	-	-				
M	-	-	-				
TBlim	-	-	-				
SSBlim	-	-	-				
Flim	-	-	-				
ERlim	-	-	-				

Time Series						
Туре	ID Asmt Year Curr Value Sex Ag					
ТВ	-	-	-	-	-	
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*
■ Lui	Dun der ett nu v
Spawner Recruit*	Production*
Spawner Recruit*	Production*
Spawner Recruit*	Production
Spawner Recruit*	Production*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

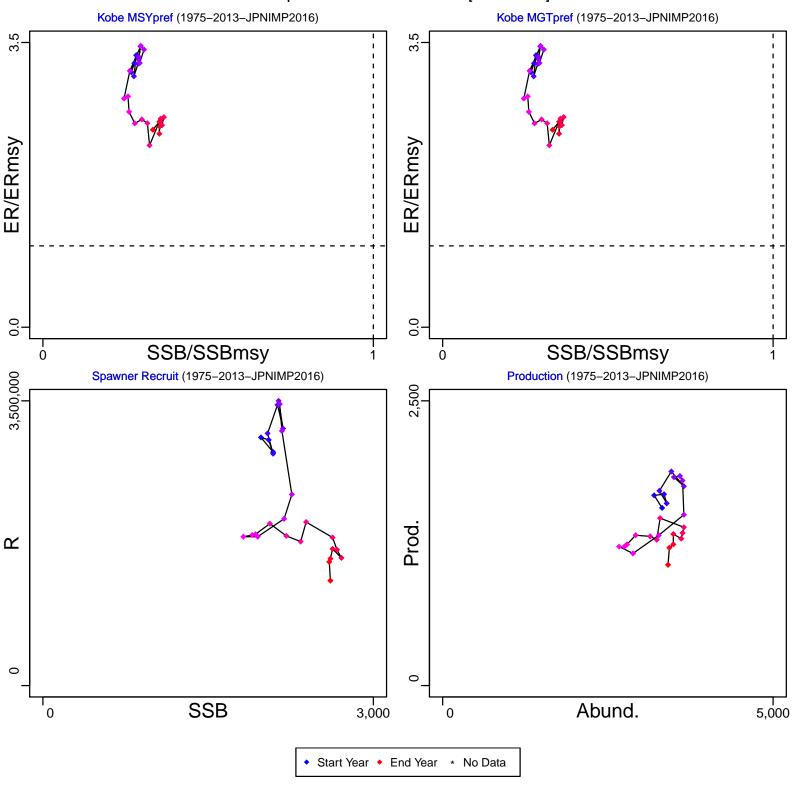
TB*	SSB*
TN *	F*
ER*	Recruits*
ER	Reciuits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
MSY-based BRP Li	m BRP ■ No Data

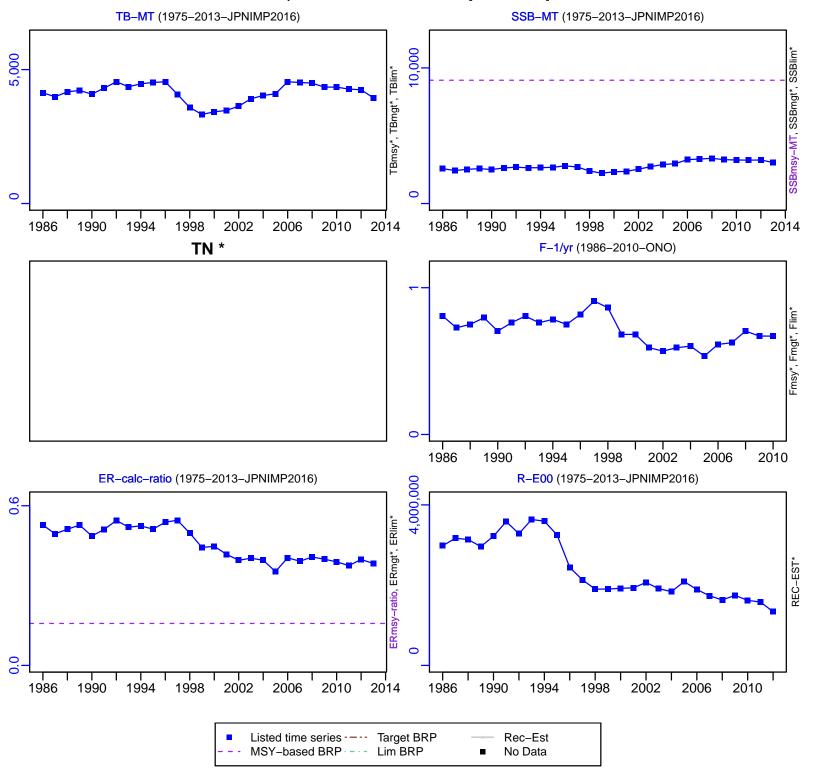


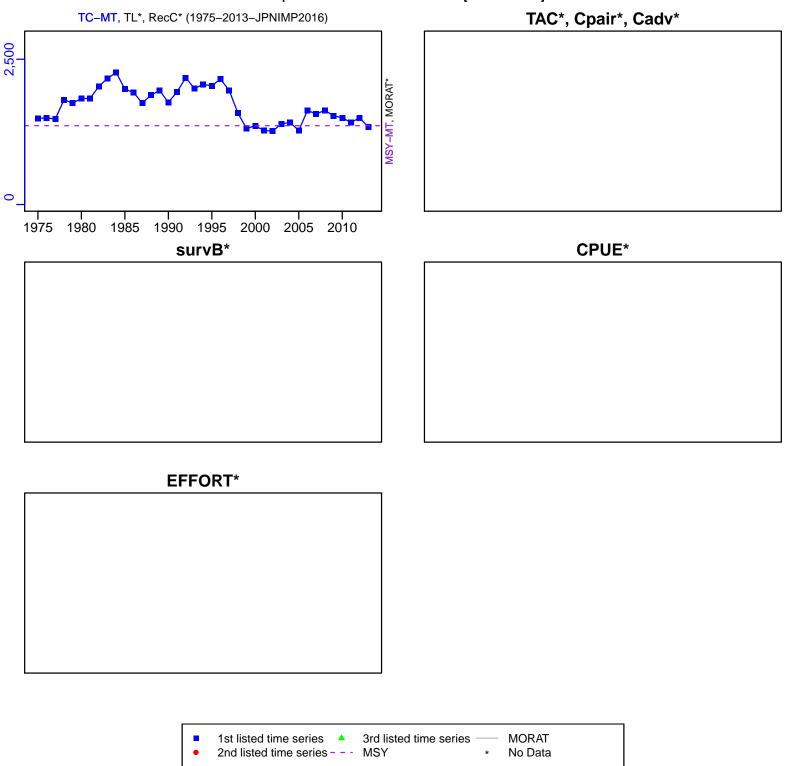
Metadata		
Scientific Name	Paralichthys olivaceus	
Current Assess ID	FAJ-OFLOUNECS-1975-2013-JPNIMP2016	
Area East China Sea		
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013, 2010	

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		



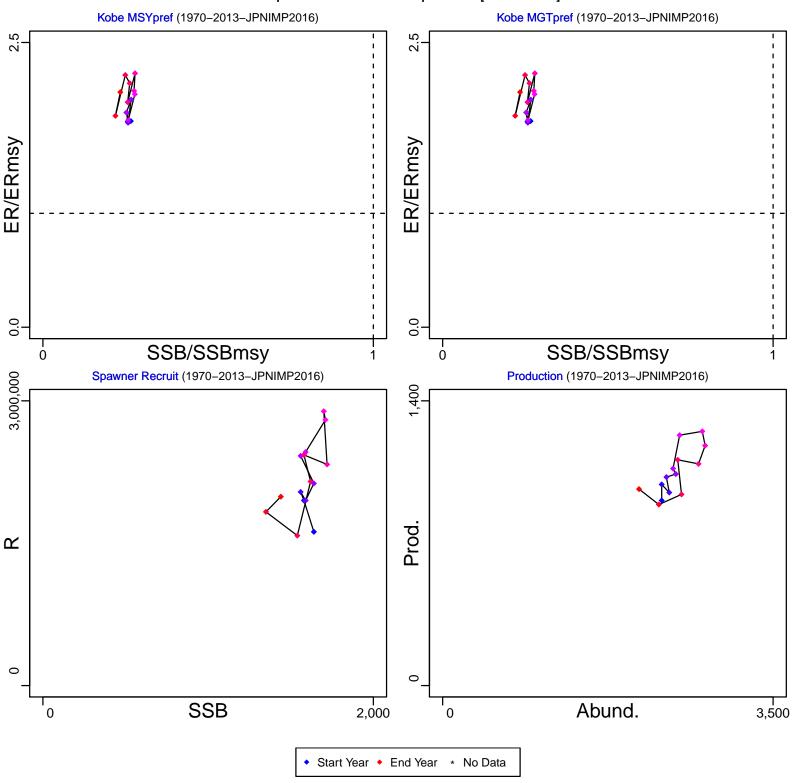


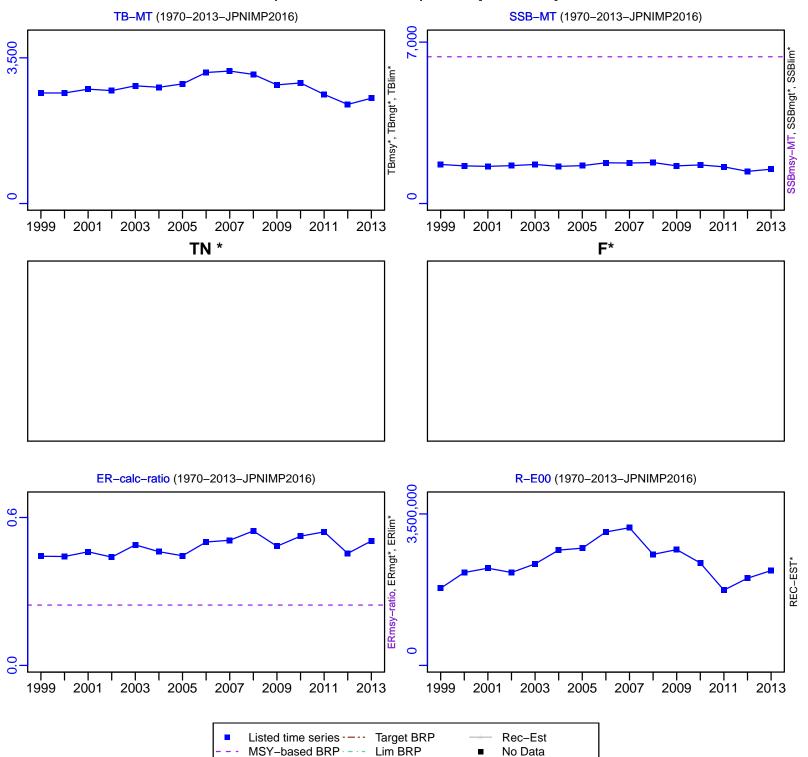


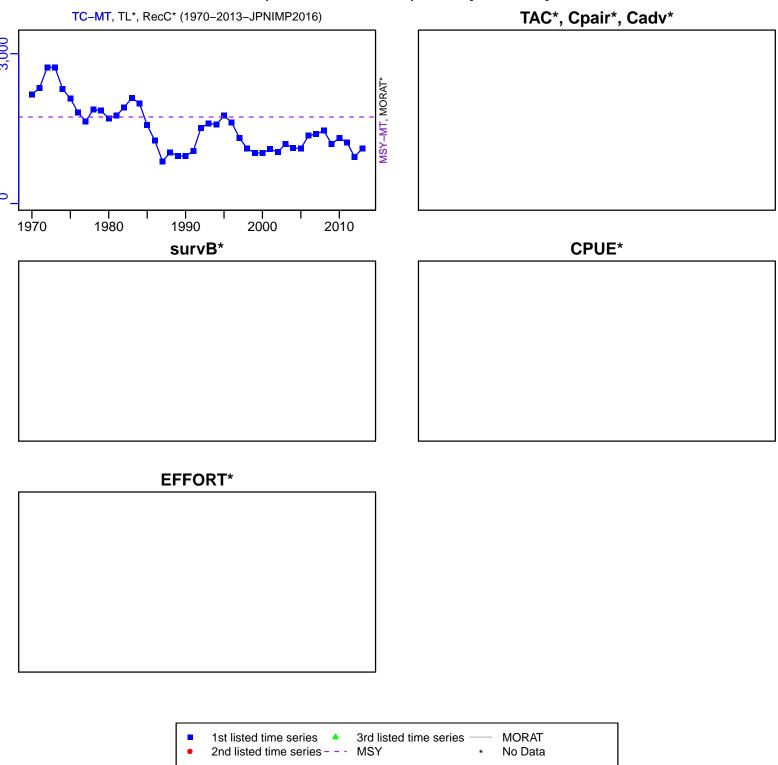
Metadata			
Scientific Name	Paralichthys olivaceus		
Current Assess ID FAJ-OFLOUNNSJ-1970-2013-JPNIMP2016			
Area Sea of Japan North			
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan		
Assessor Fisheries Agency of Japan			
Asmts in RAM	2013, 2010		

Reference Points				
Туре	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	
М	M-1/yr	2013	0.2	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	2900	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		



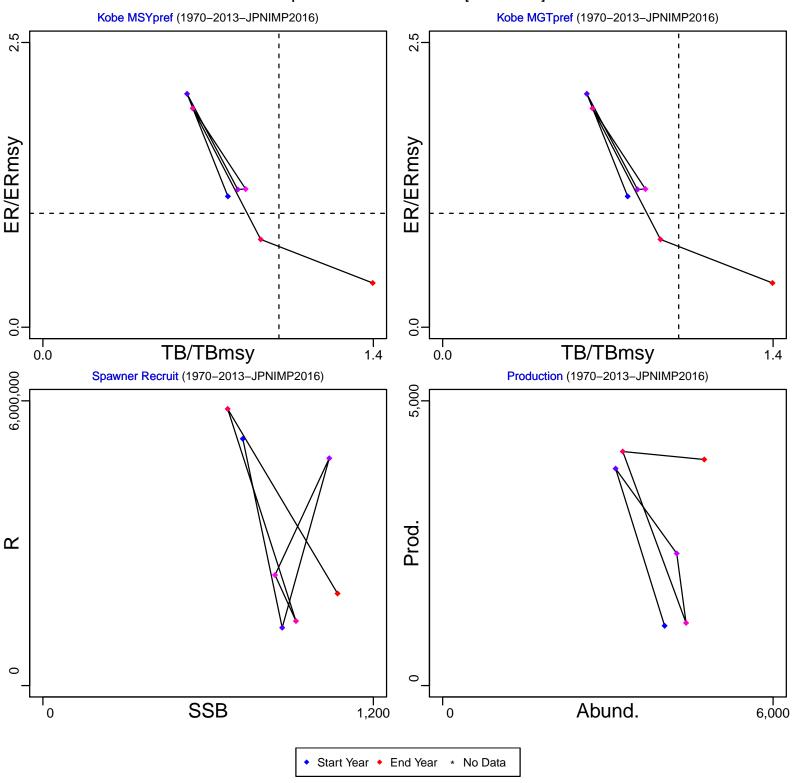


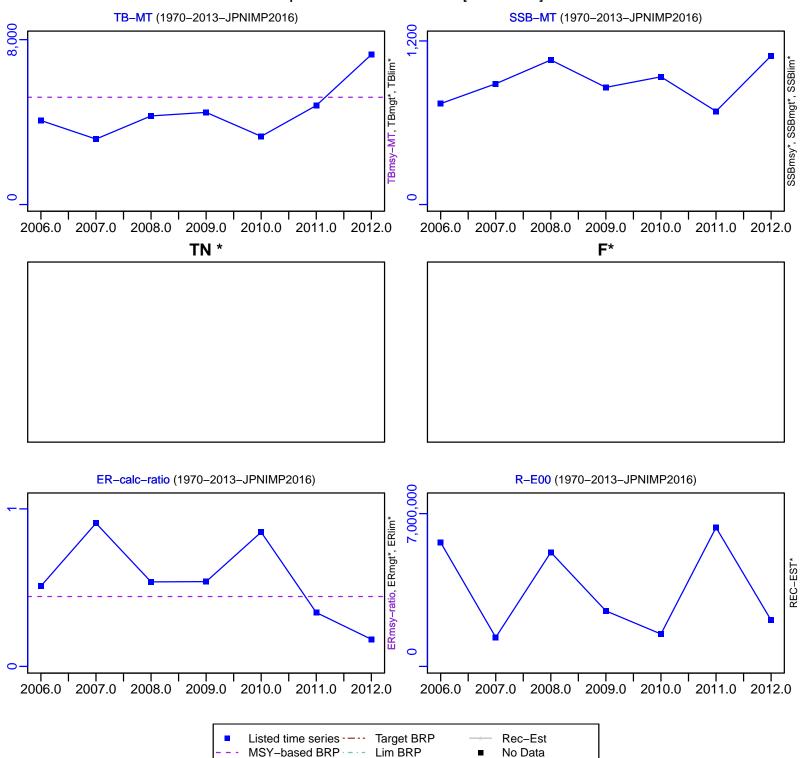


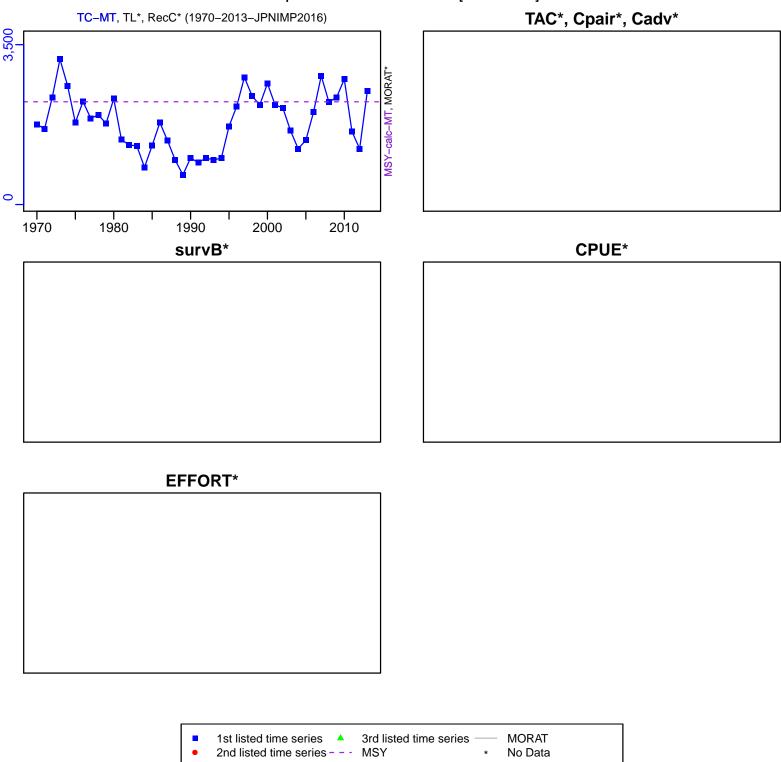
Metadata			
Scientific Name	Paralichthys olivaceus		
Current Assess ID	FAJ-OFLOUNPAC-1970-2013-JPNIMP2016		
Area Pacific Ocean			
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan		
Assessor	Fisheries Agency of Japan		
Asmts in RAM	2013, 2009		

Reference Points			
Туре	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
М	M-1/yr	2013	0.21
TBlim	-	-	-
SSBlim	SSBlim-MT	2009	1600
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		



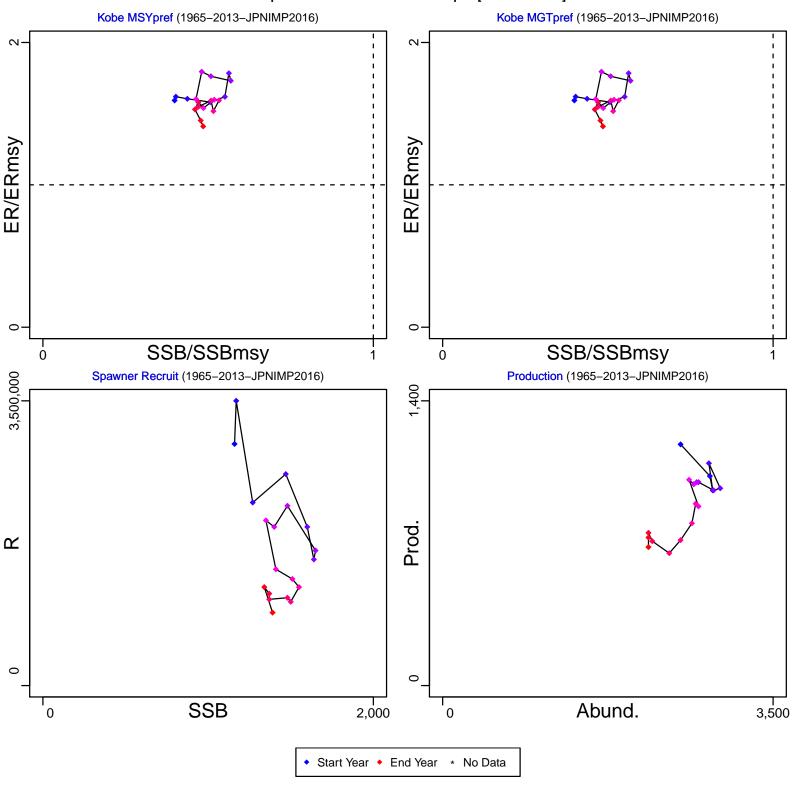


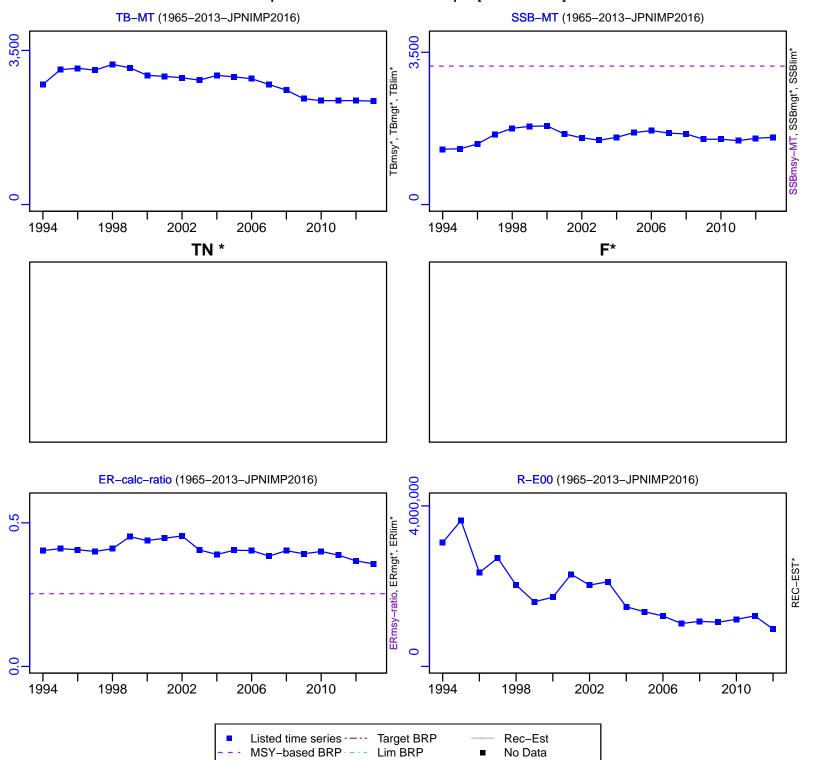


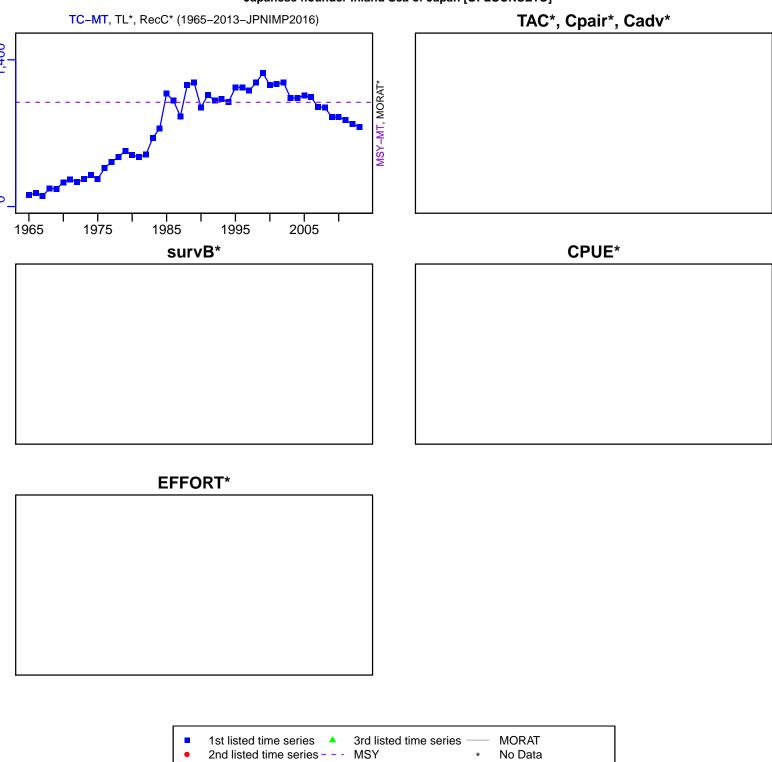
Metadata			
Scientific Name	Paralichthys olivaceus		
Current Assess ID FAJ-OFLOUNSETO-1965-2013-JPNIMP2016			
Area Inland Sea of Japan			
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan		
Assessor Fisheries Agency of Japan			
Asmts in RAM	2013, 2010		

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		
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	-	-	-		







# 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				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2013	0.31	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

### Pacific cod Hokkaido [PCODHOKK]

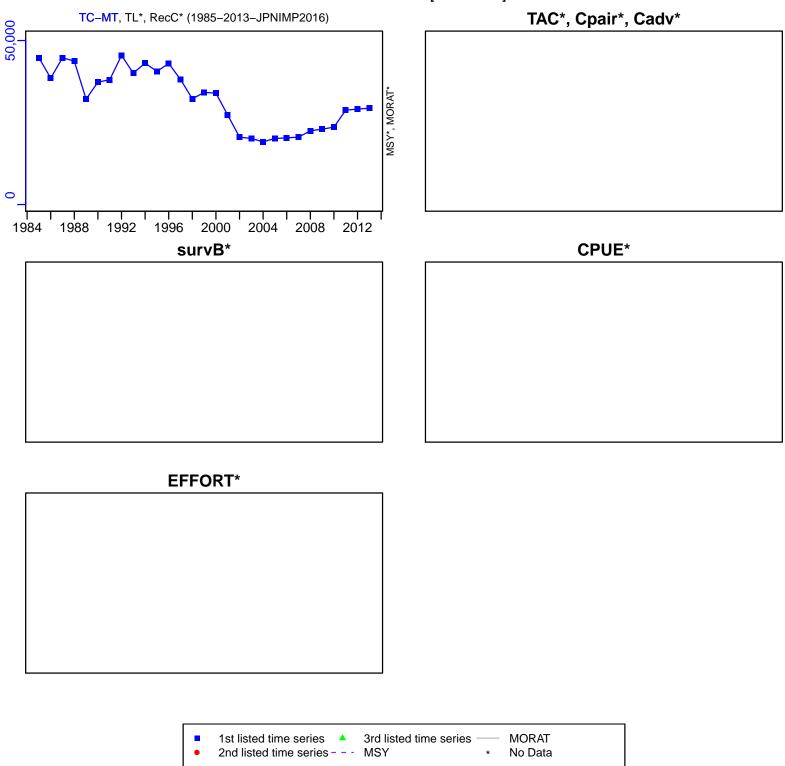
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

### Pacific cod Hokkaido [PCODHOKK]

TB*	SSB*
TN *	F*
	<b>.</b>
ER*	Recruits*
- Paralessa	Don Est
Listed time series Ta	arget BRP — Rec-Est Im BRP ■ No Data

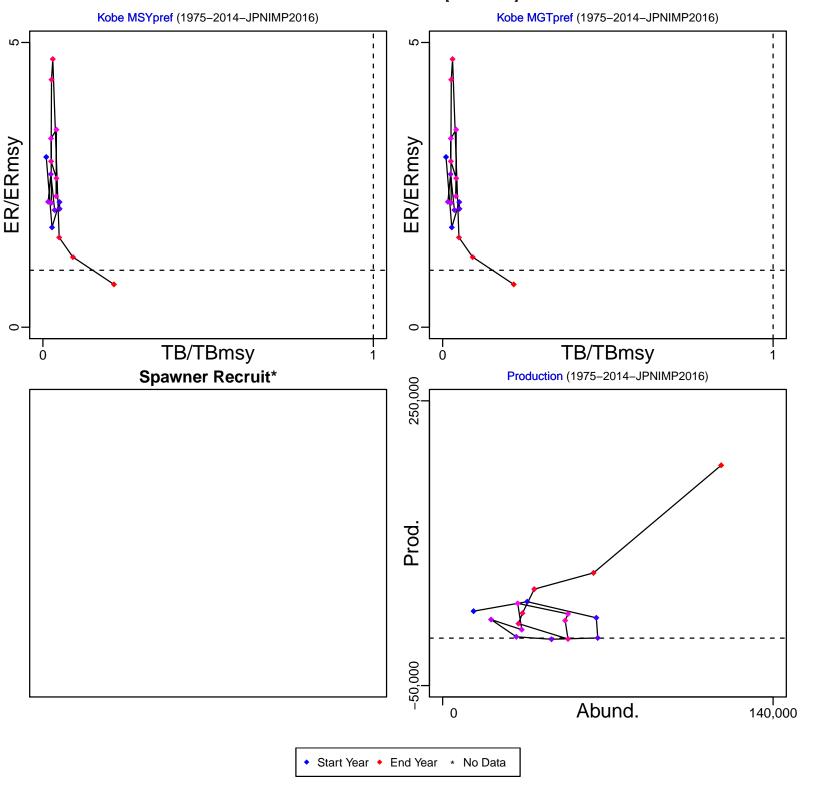
#### Pacific cod Hokkaido [PCODHOKK]

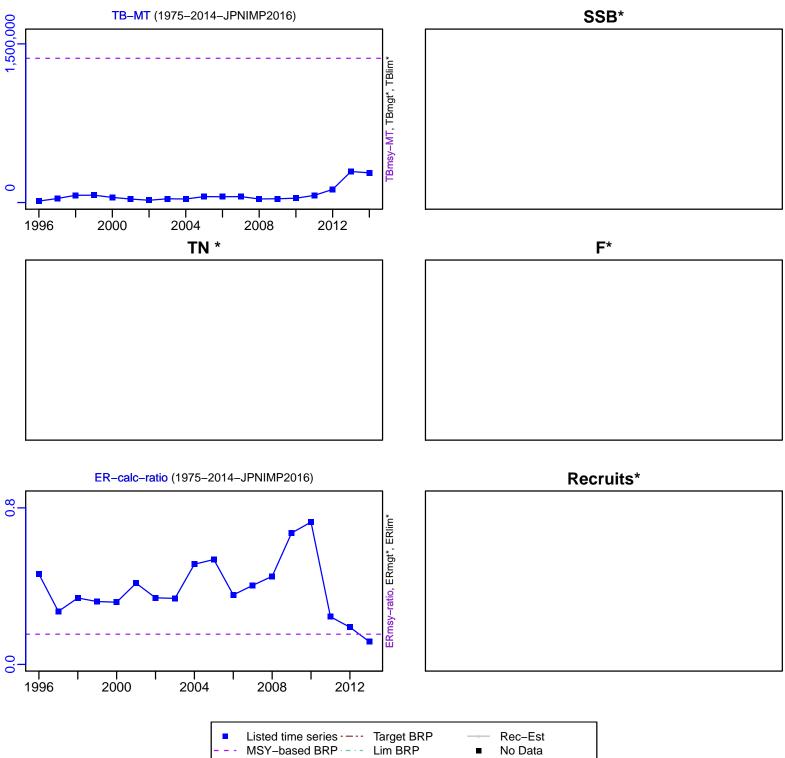


Metadata		
Scientific Name	Gadus macrocephalus	
Current Assess ID	FAJ-PCODNPAC-1975-2014-JPNIMP2016	
Area North Pacific		
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2014	

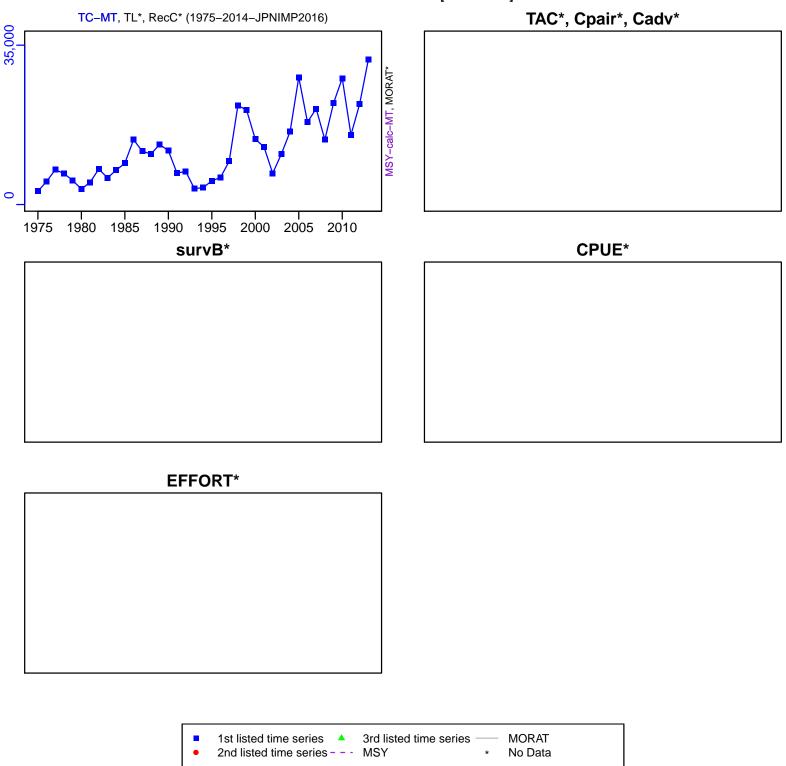
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2014	1,297,226	
SSBmsy	-	-		
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2014	0.14	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-calc-MT	2014	188,098	
М	M-1/yr	2014	0.31	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		





No Data



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	

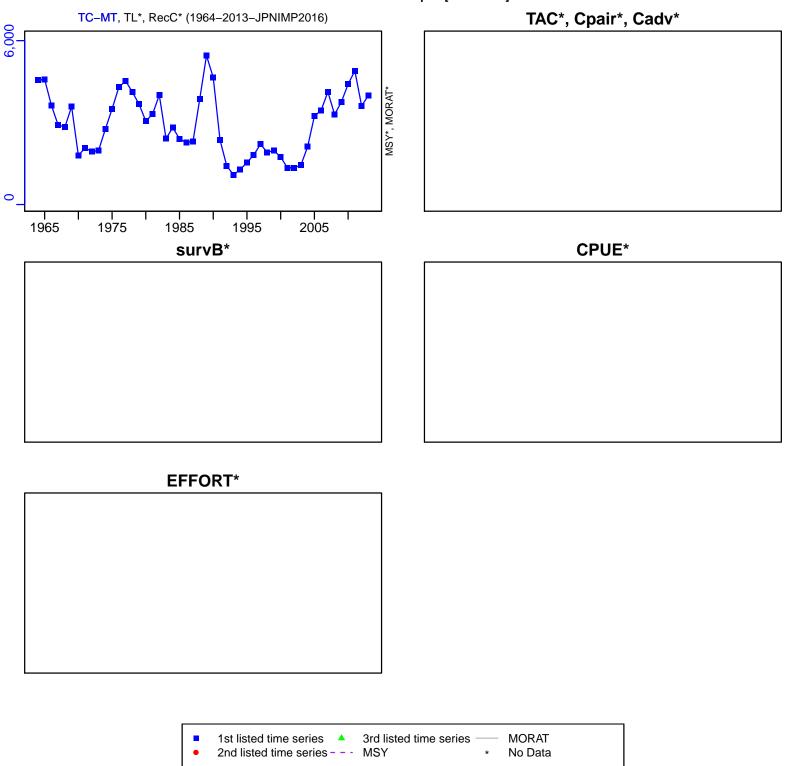
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2013	0.31		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data



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	

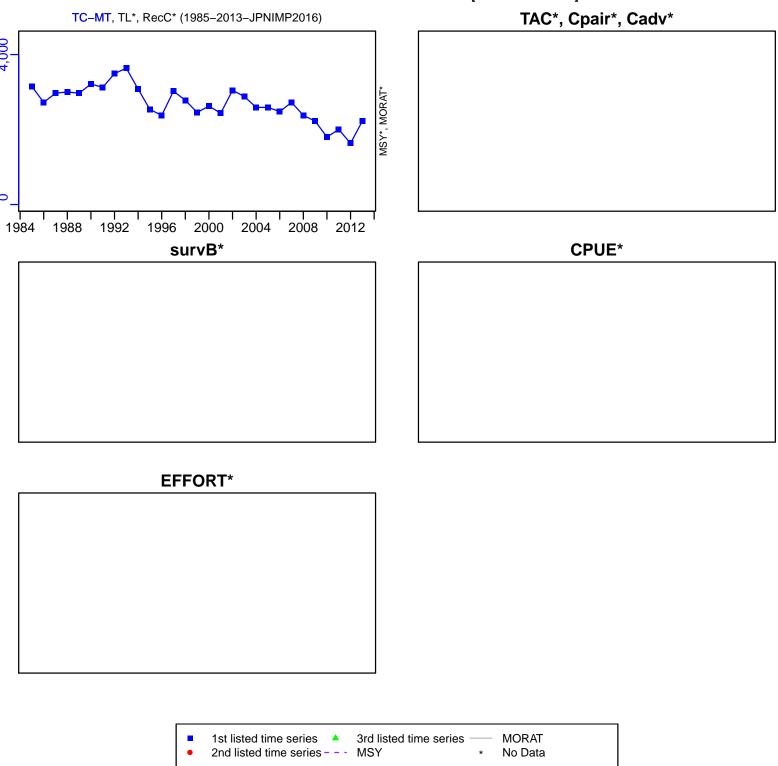
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2013	0.3		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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

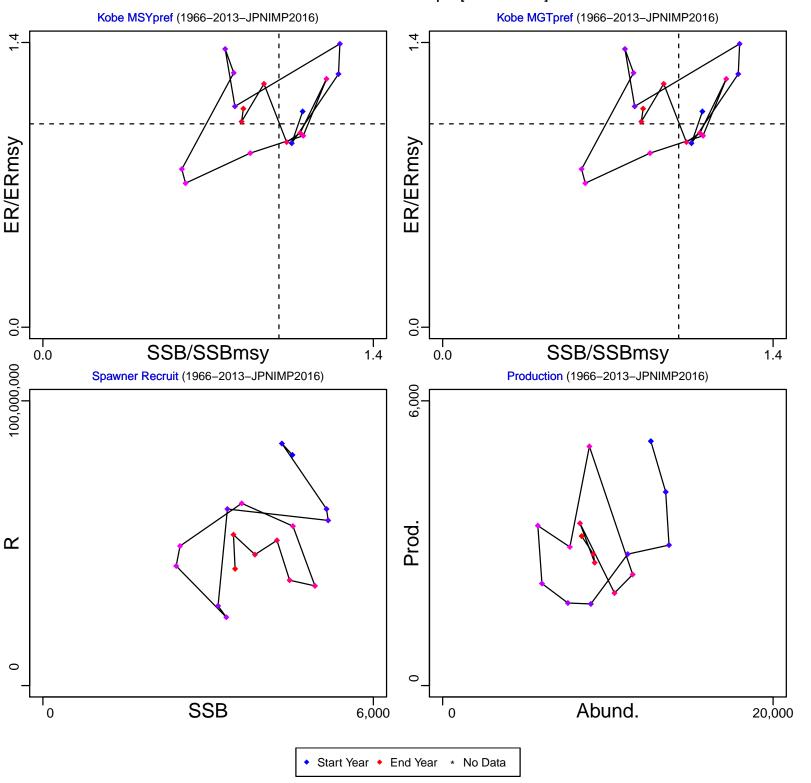
TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data

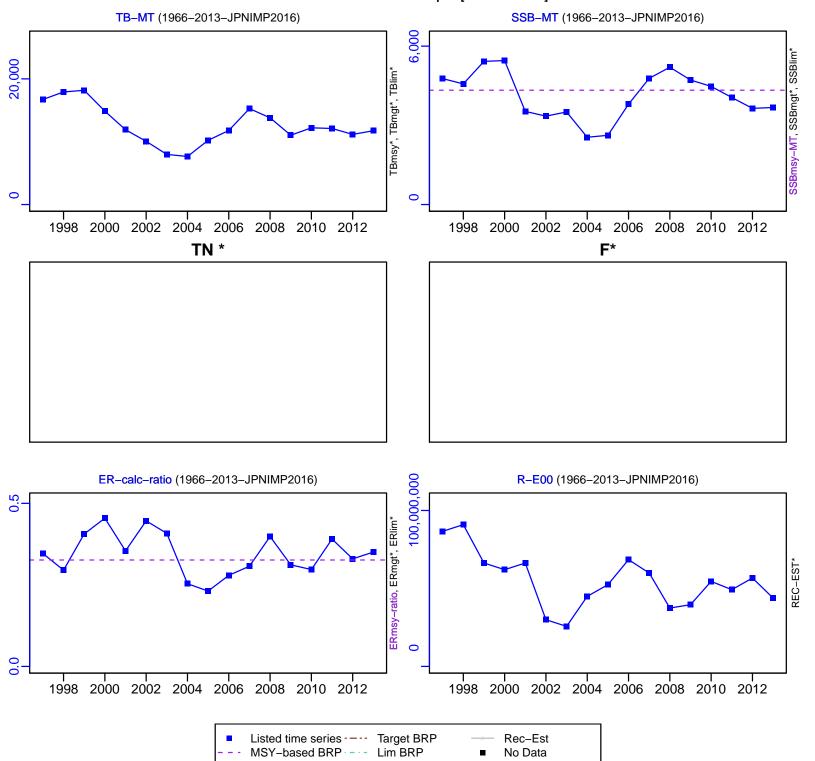


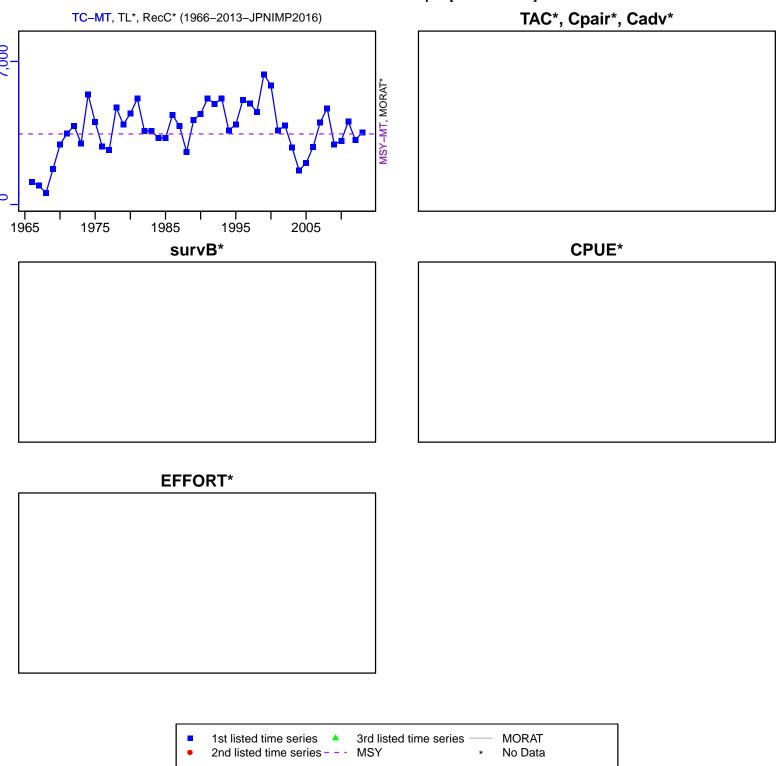
Metadata		
Scientific Name	Cleisthenes herzensteini	
Current Assess ID	FAJ-PHFLOUNSOJ-1966-2013-JPNIMP2016	
Area	Sea of Japan	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013	

Reference Points			
Туре	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					
Туре	ID Asmt Year Curr Value				Age
ТВ	TB-MT	2013	8850	-	1
SSB	SSB-MT	2013	3490	Both	3
TN	-	-	-	-	-
R	R-E00	2013	$4.1 \times 10^{7}$	-	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	-	-	-		



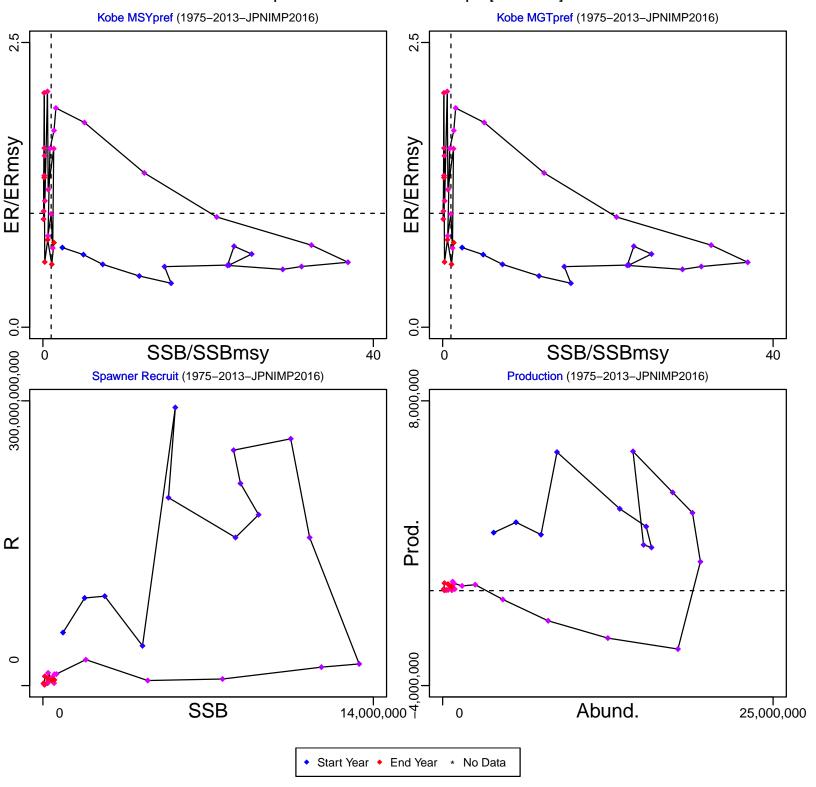


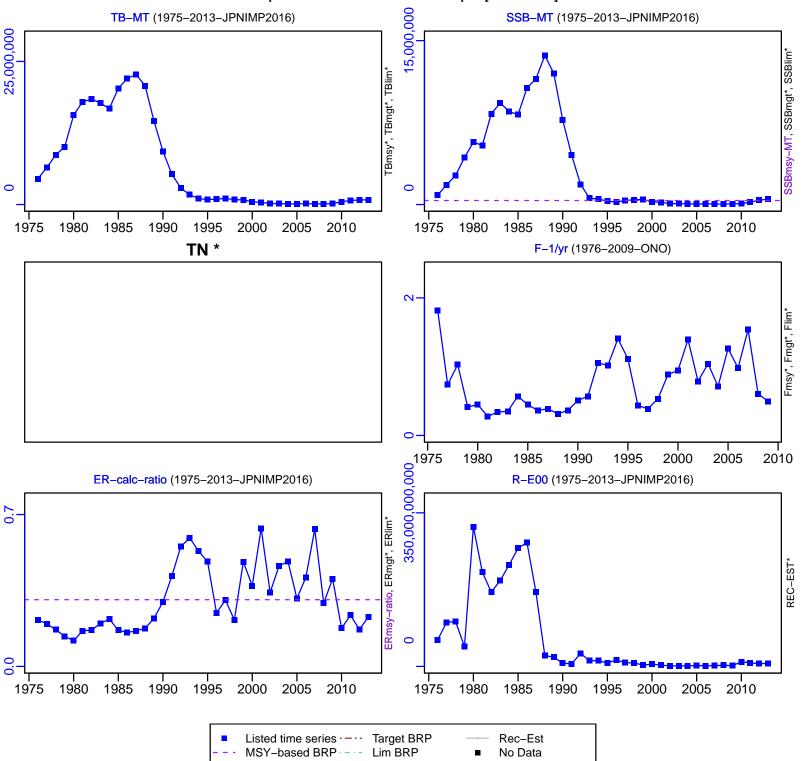


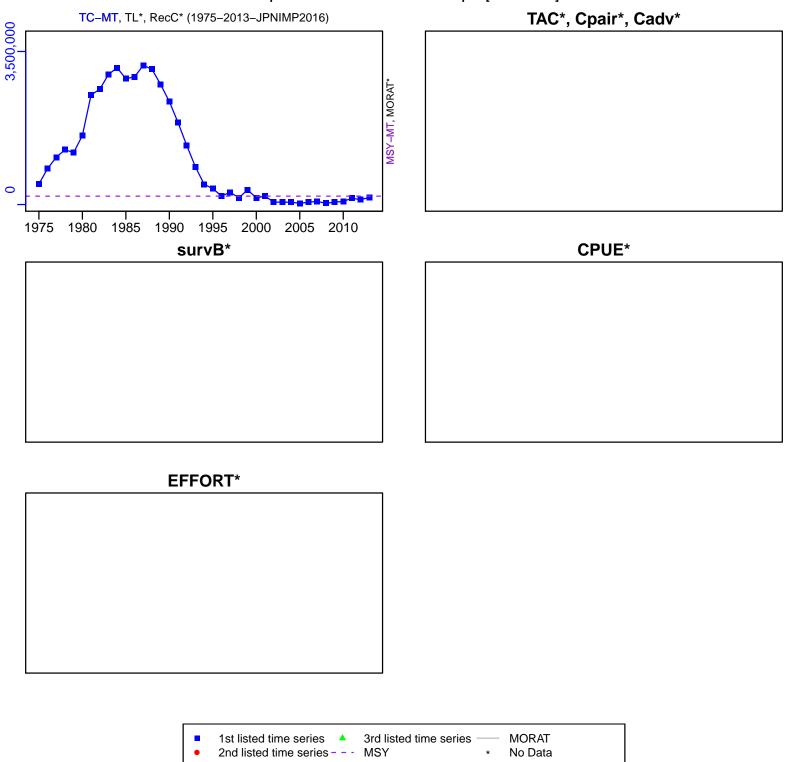
Metadata		
Scientific Name	Sardinops melanostictus	
Current Assess ID	FAJ-PILCHPJPN-1975-2013-JPNIMP2016	
Area	Pacific Coast of Japan	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013, 2009	

Reference Points			
Туре	ID	Value	
TBmsy	-	-	-
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
М	M-1/yr	2013	0.4
TBlim	TBlim-MT	2009	221
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID Asmt Year Curr Value				Age
ТВ	TB-MT	2013	714,000	-	0
SSB	SSB-MT	2013	484,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.98 \times 10^{9}$	-	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	-	-	-		
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	-	-	-		



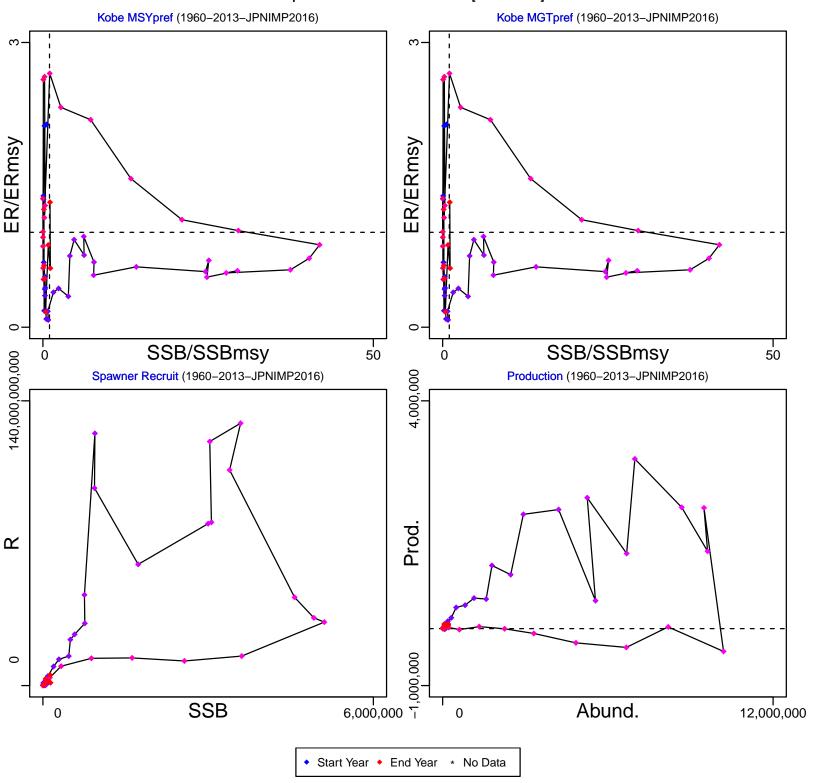


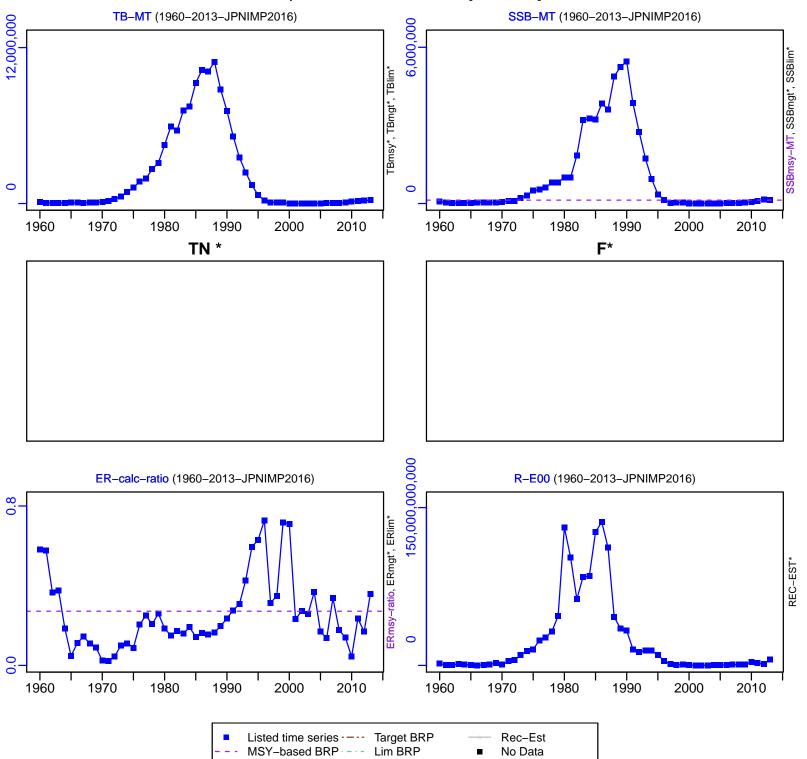


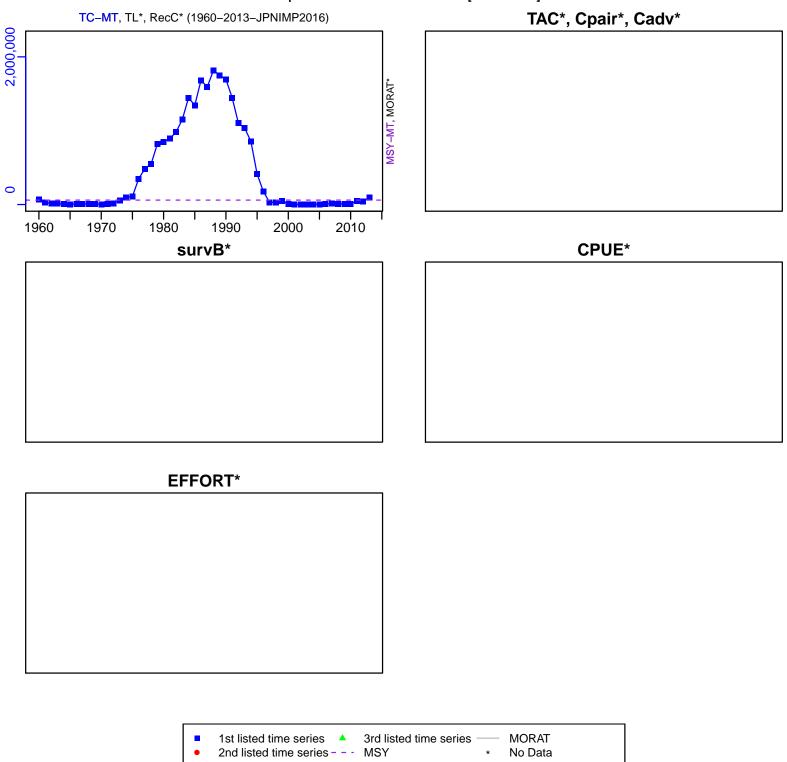
	Metadata
Scientific Name	Sardinops melanostictus
Current Assess ID	FAJ-PILCHTSST-1960-2013-JPNIMP2016
Area	Tsushima Strait
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2010, 2013

Reference Points				
Туре	ID	Value		
TBmsy	-	-	-	
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					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	252,000	-	0
SSB	SSB-MT	2013	131,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.17 \times 10^{9}$	-	0.00E+00
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	86,300		
TL	-	-	-		
TB/TBmsy	-	-	-		
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	-	-	-		







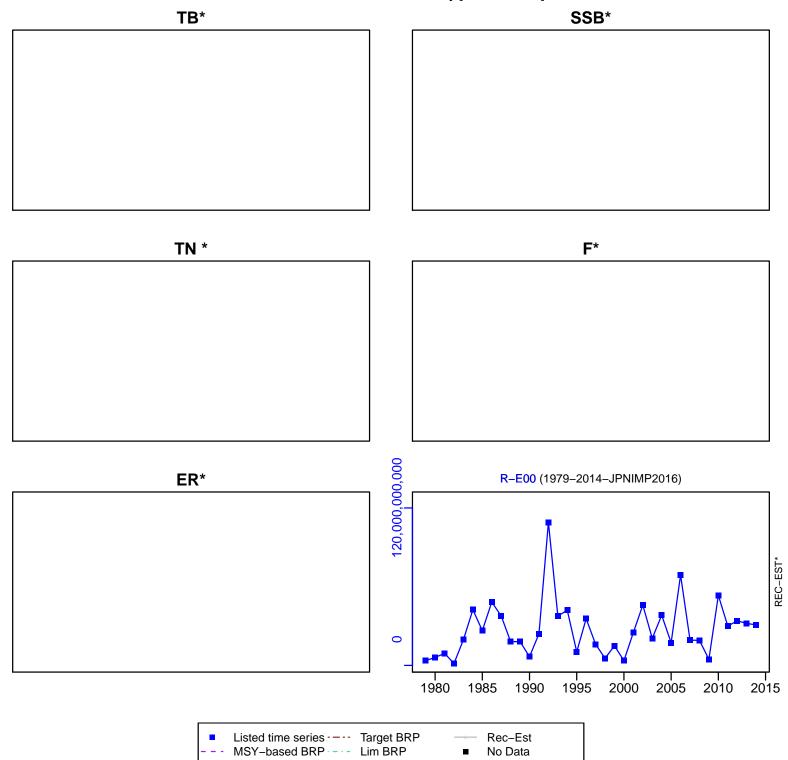
Metadata		
Scientific Name	Ammodytes personatus	
Current Assess ID	FAJ-PSANDLIMKB-1979-2014-JPNIMP2016	
Area	Ise and Mikawa Bay	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2014	

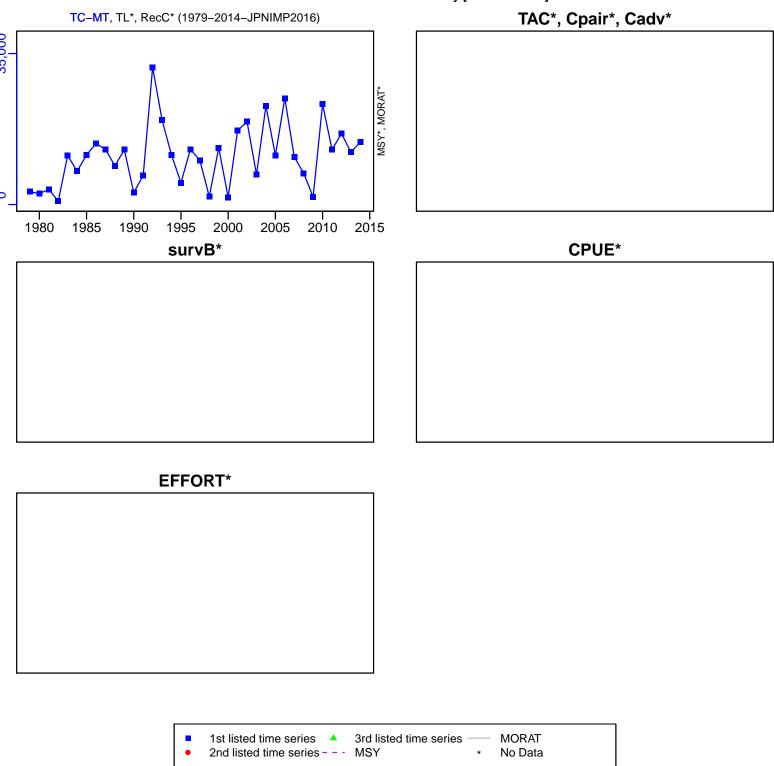
Reference Points					
Type					
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Year   Curr Value		Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	R-E00	2014	$2.92 \times 10^{10}$	-	-	
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	-	-	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data





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	

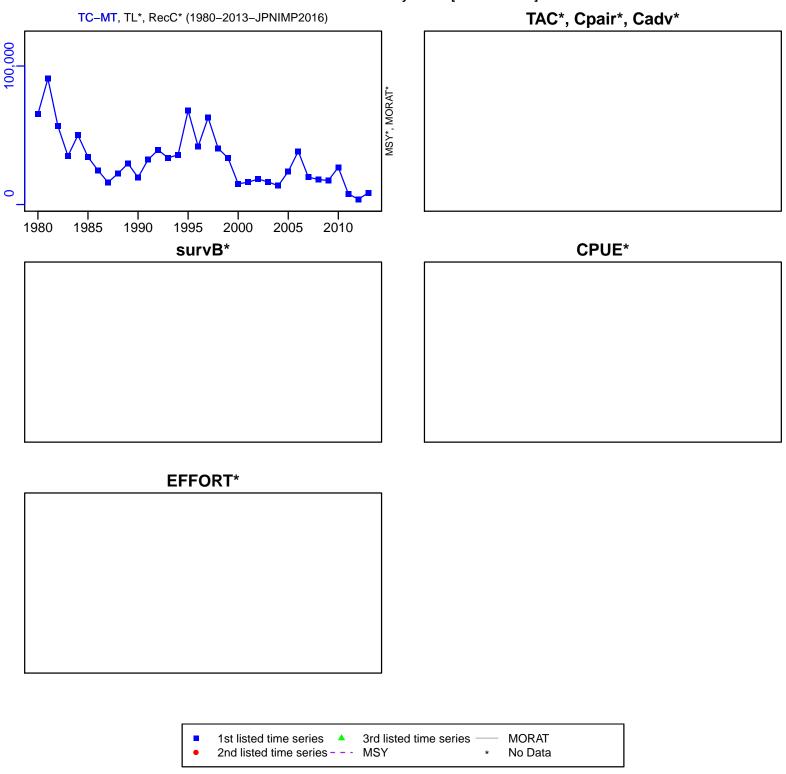
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
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*
	J
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data



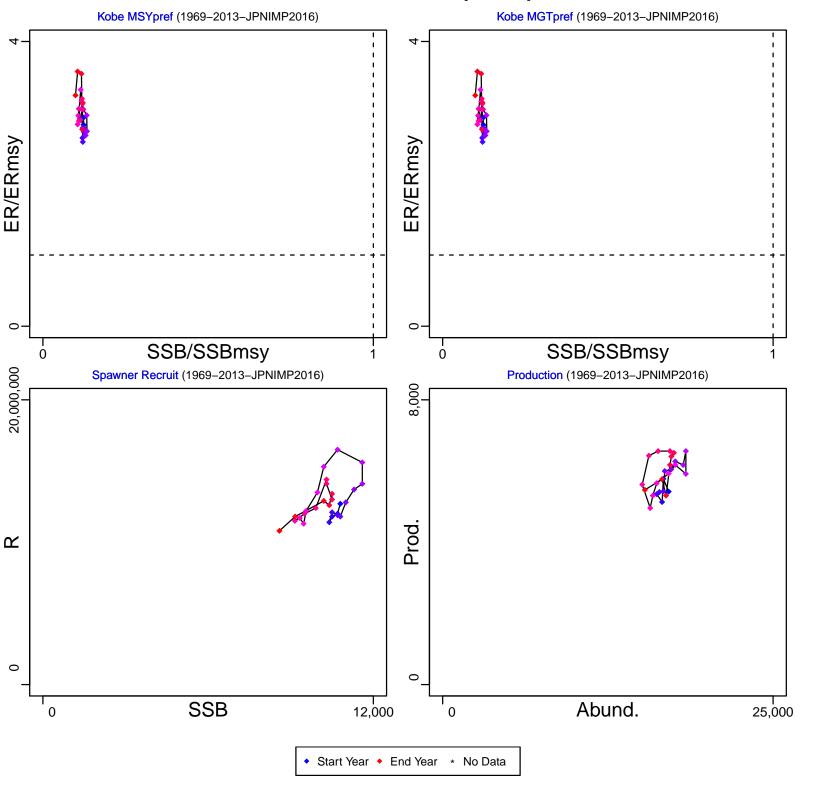
## Red seabream East China Sea [RBRMECS]

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		

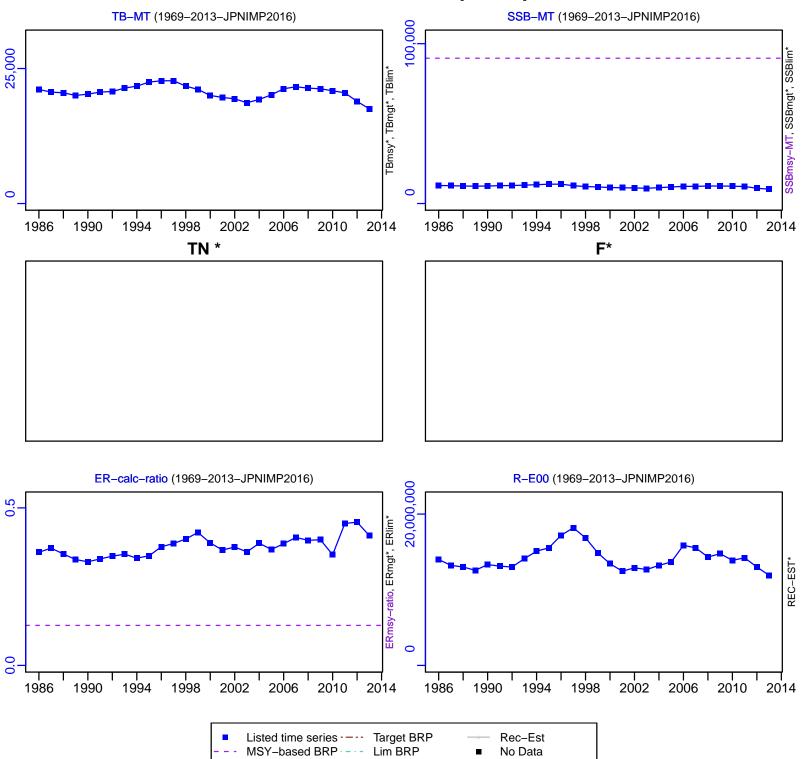
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2013	87,132		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2013	0.12		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2013	11,626		
М	M-1/yr	2013	0.12		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2010	9900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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-	1	
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	-	-	-		

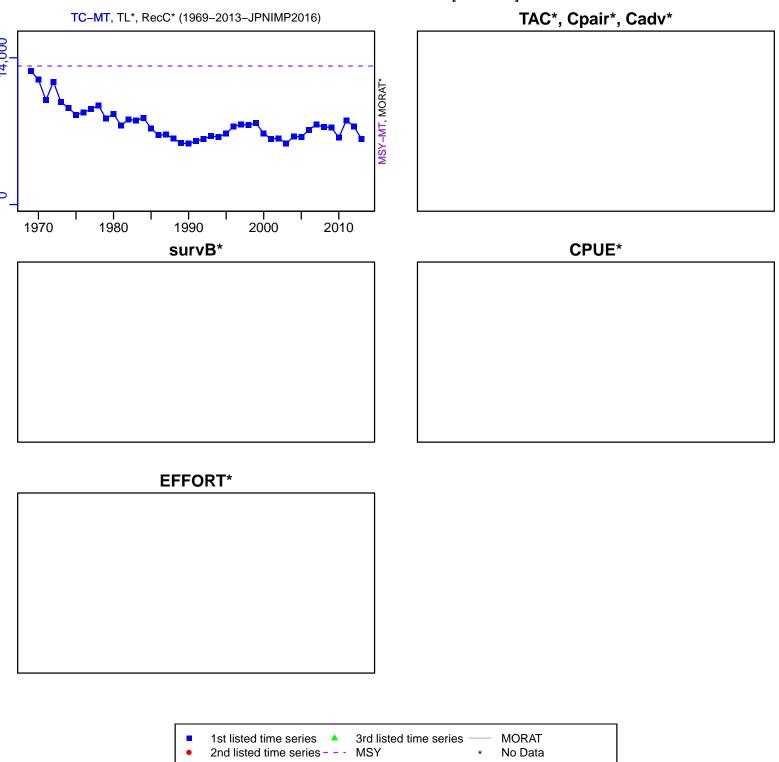
#### Red seabream East China Sea [RBRMECS]



#### Red seabream East China Sea [RBRMECS]



## Red seabream East China Sea [RBRMECS]



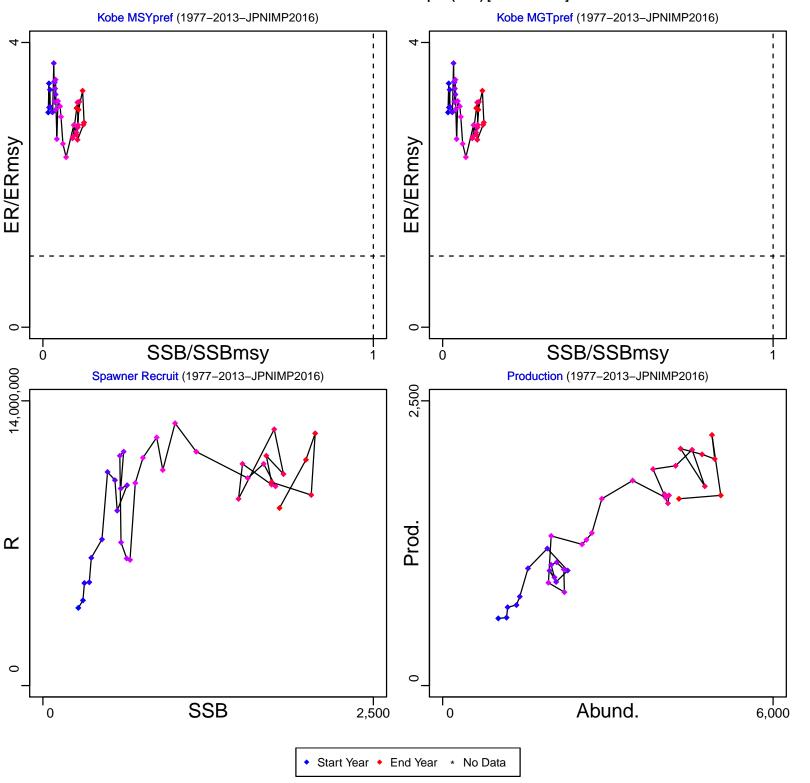
# Red seabream Inland Sea of Japan (East) [RBRMSETOE]

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	

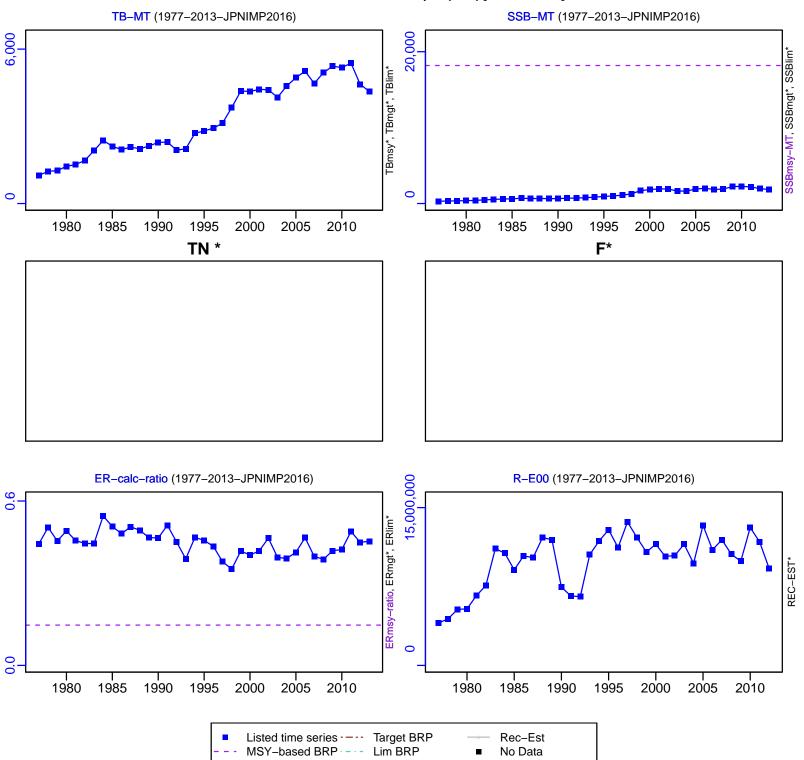
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2013	16,552	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.14	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	3106	
М	M-1/yr	2013	0.24	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	304	
Flim	-	-	-	
ERlim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

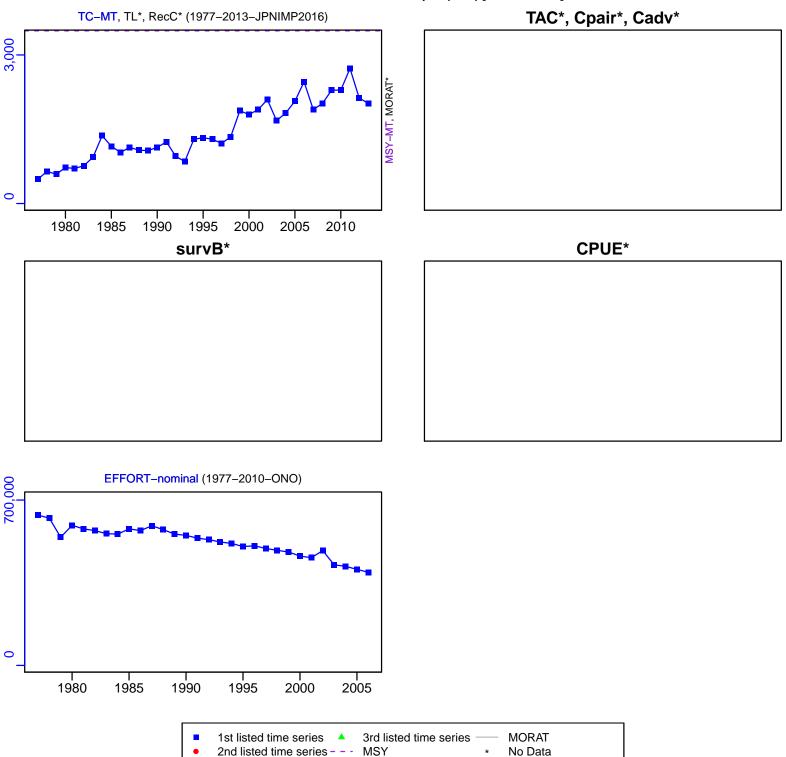
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	4030	-	0
SSB	SSB-MT	2013	1680	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,730,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	1800		
TL	-	-	-		
TB/TBmsy	-	-	-	]	
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.1	]	
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio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

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



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





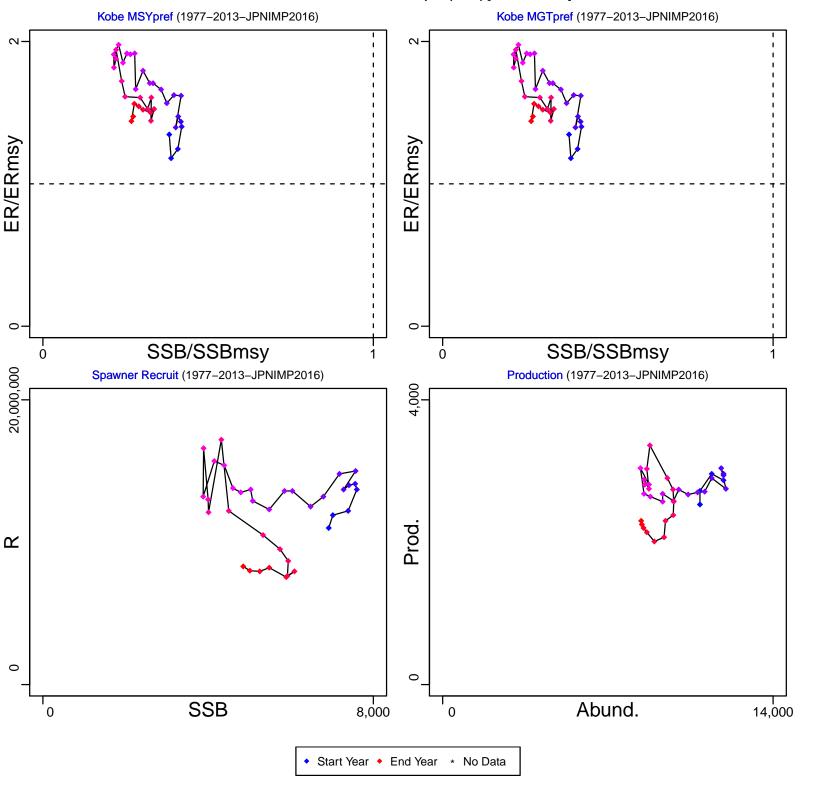
# Red seabream Inland Sea of Japan (West) [RBRMSETOW]

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	

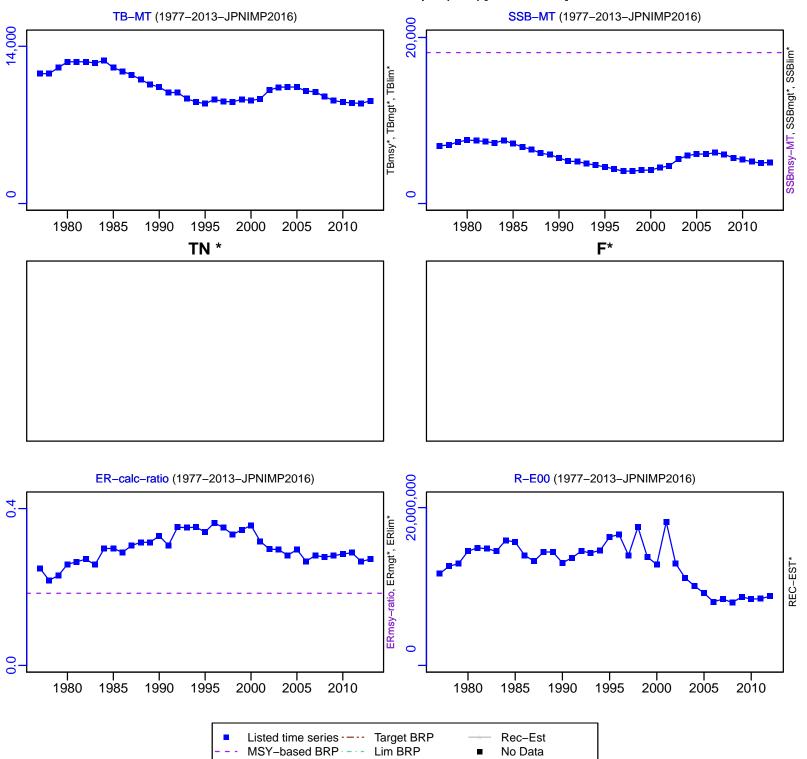
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2013	18,103	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.17	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	4173	
M	M-1/yr	2013	0.24	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	4212	
Flim	-	-	-	
ERlim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

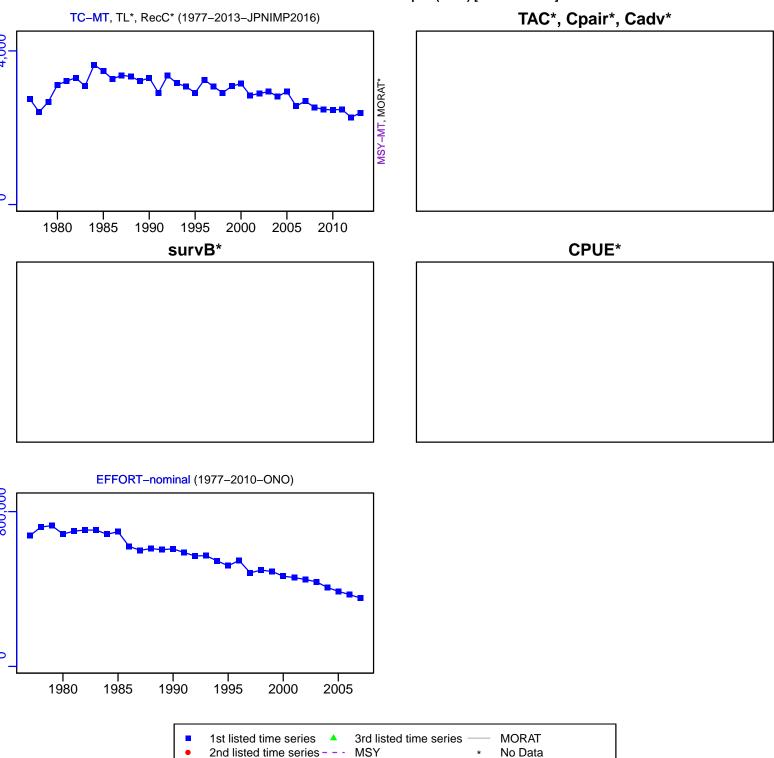
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	8620	-	0
SSB	SSB-MT	2013	4940	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,300,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	2200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.27		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio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

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



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





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	

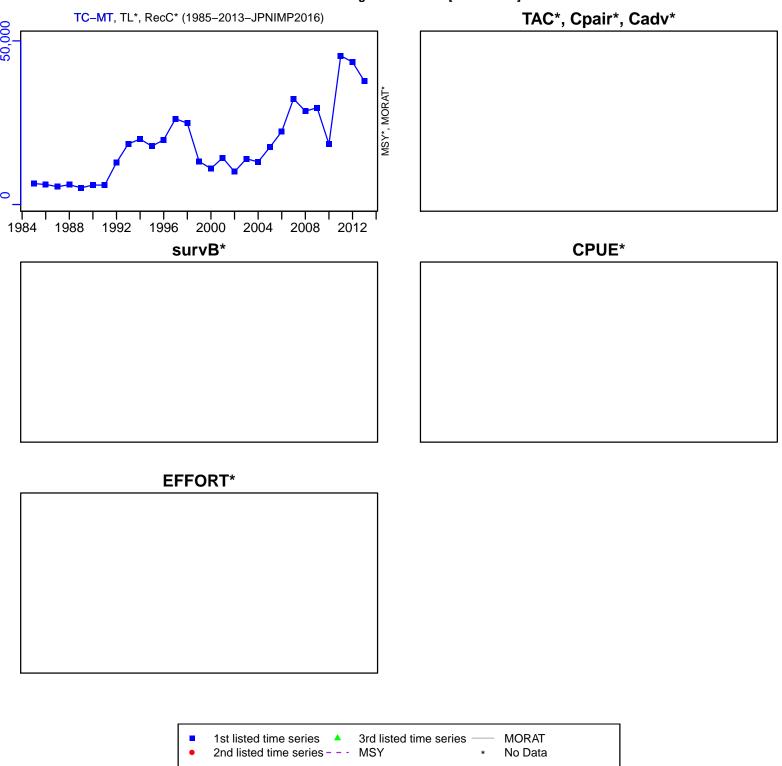
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2013	0.7	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	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

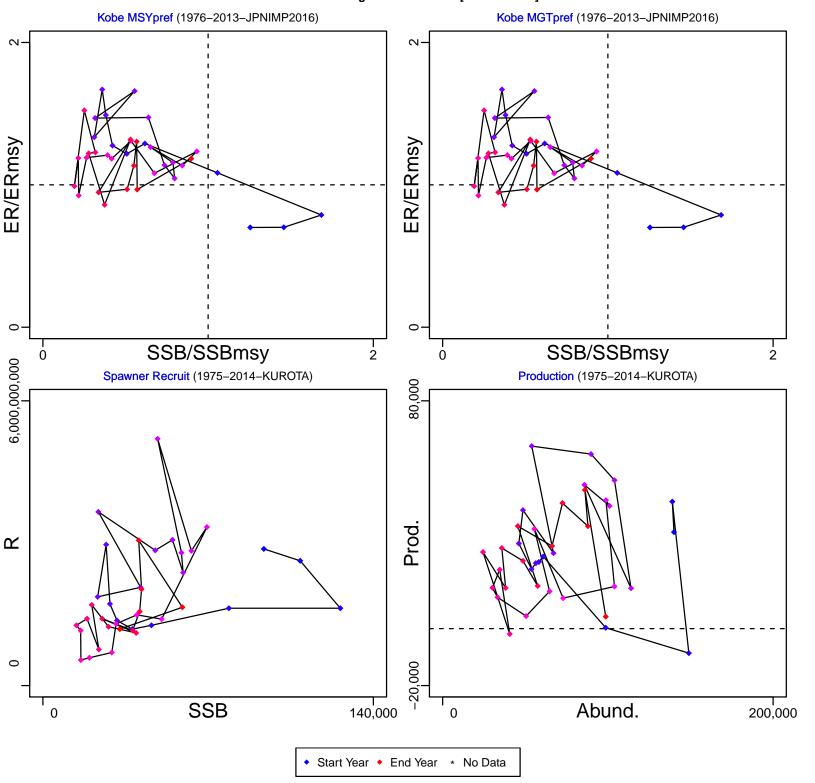
TB*	SSB*
TN *	F*
ER*	Recruits*
ER	Reciuits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
· MSY-based BRP · - · · Li	m BRP ■ No Data

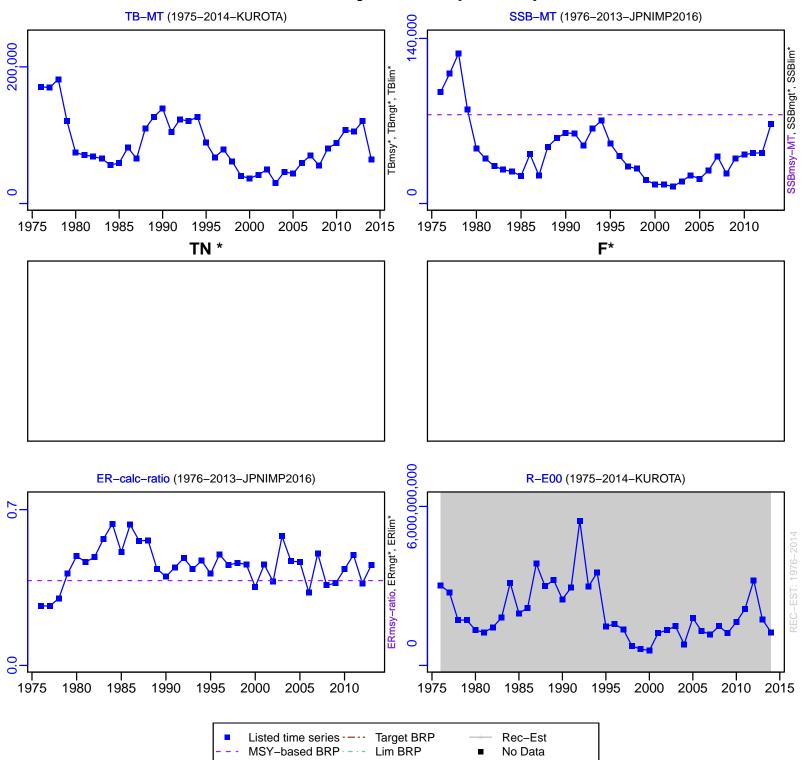


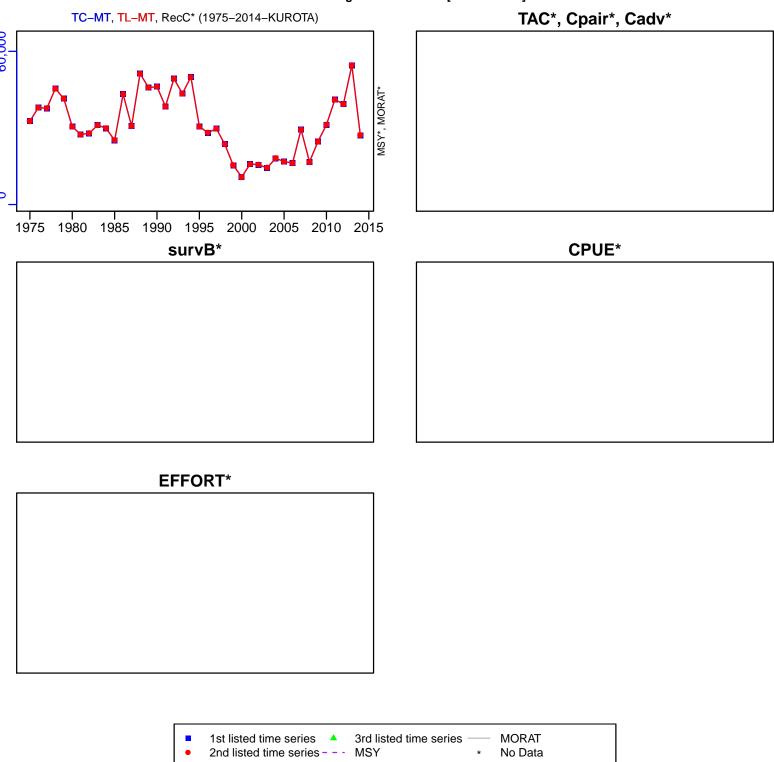
Metadata		
Scientific Name	Etrumeus teres	
Current Assess ID	FAJ-RHERRTSST-1976-2013-JPNIMP2016	
Area	Tsushima Strait	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2014, 2013	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
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	
М	M-1/yr	2014	0.7	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2014	27,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	52,800	Both	0+
SSB	SSB-MT	2014	32,600	-	-
TN	-	-	-	-	-
R	R-E00	2014	$1.19 \times 10^{9}$	Both	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	0+
TC	TC-MT	2014	24,900		
TL	TL-MT	2014	24,900		
TB/TBmsy	-	-	-		
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	-	-	-		



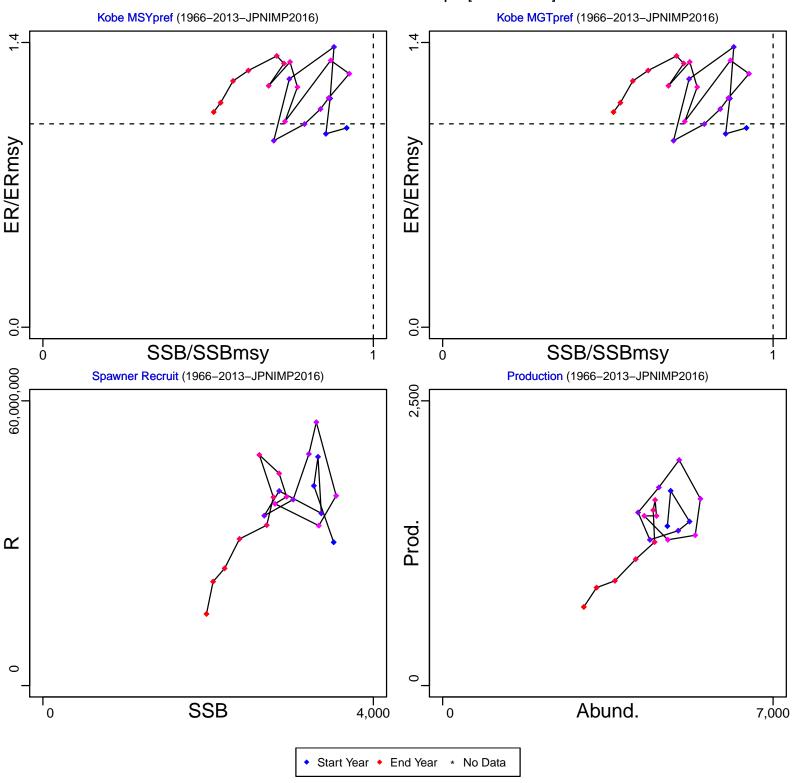


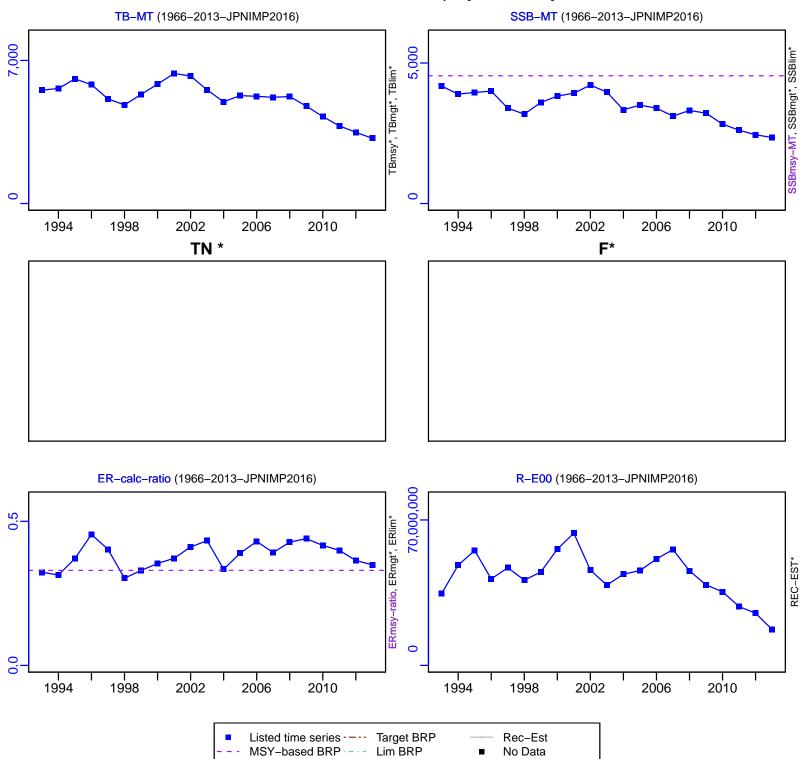


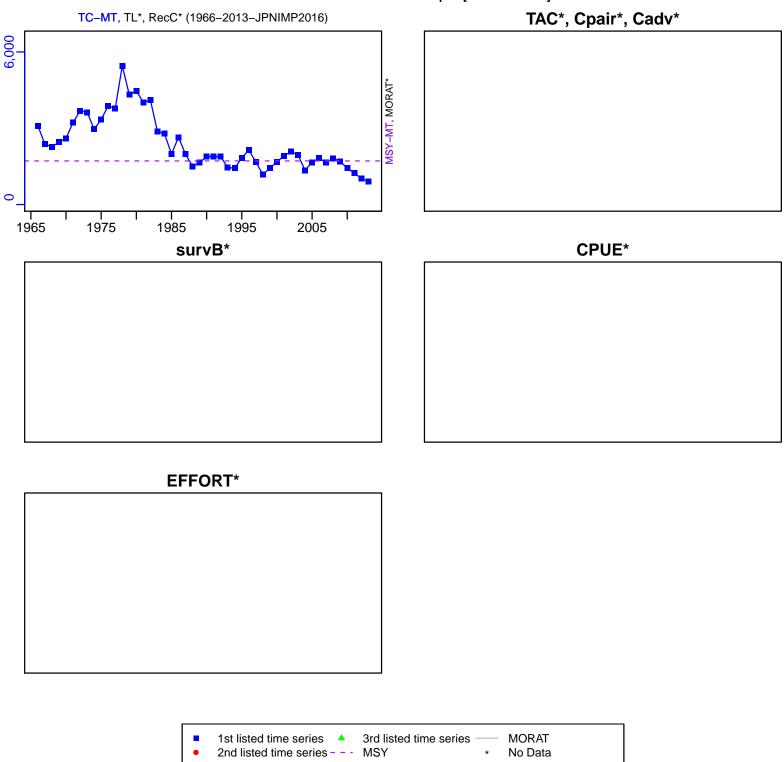
Metadata		
Scientific Name	Eopsetta grigorjewi	
Current Assess ID	FAJ-RSFLOUNSOJ-1966-2013-JPNIMP2016	
Area Sea of Japan		
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor Fisheries Agency of Japan		
Asmts in RAM	2013	

Reference Points				
Туре	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					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		







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 Japa		
Assessor Fisheries Agency of Japan		
Asmts in RAM	2013	

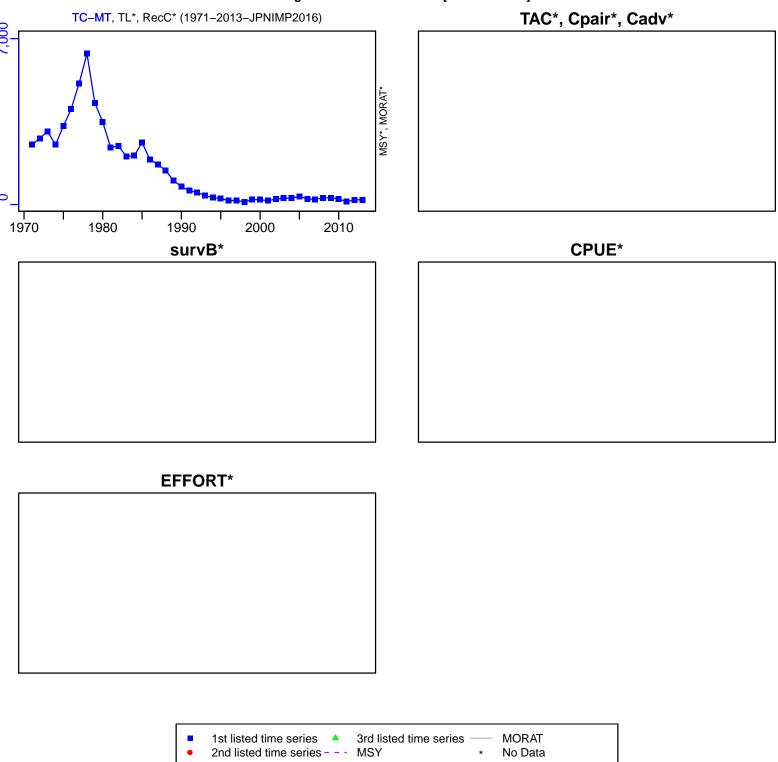
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

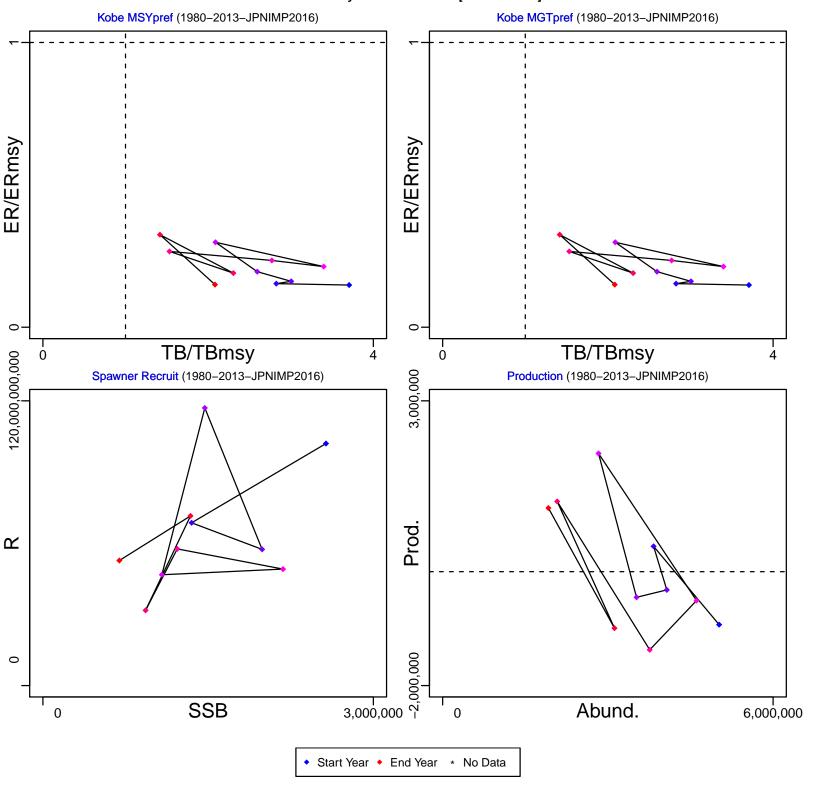
TB*	SSB*
TN *	F*
ER*	Recruits*
ER	Reciuits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
· MSY-based BRP · - · · Li	m BRP ■ No Data

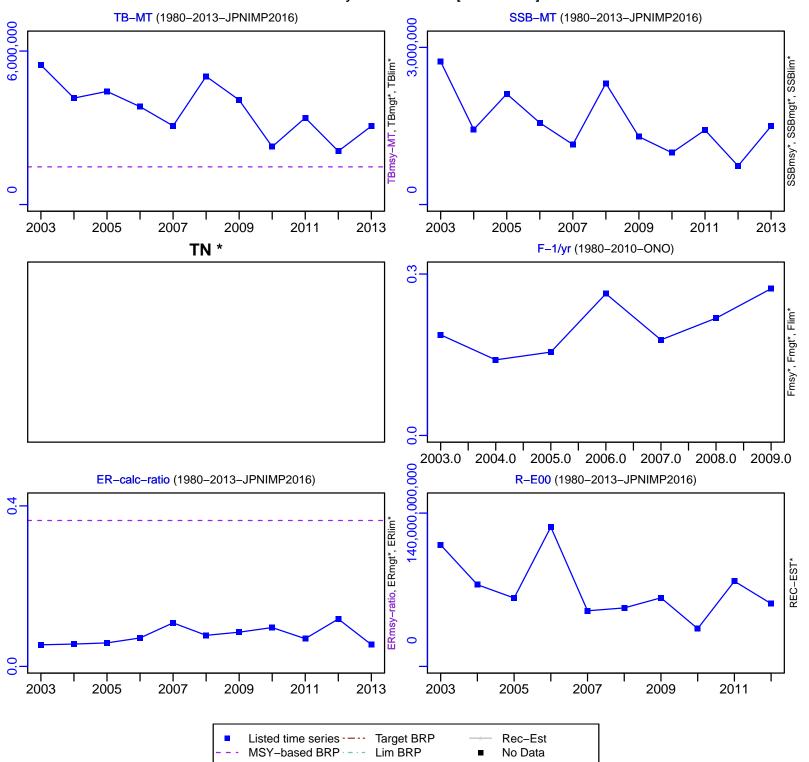


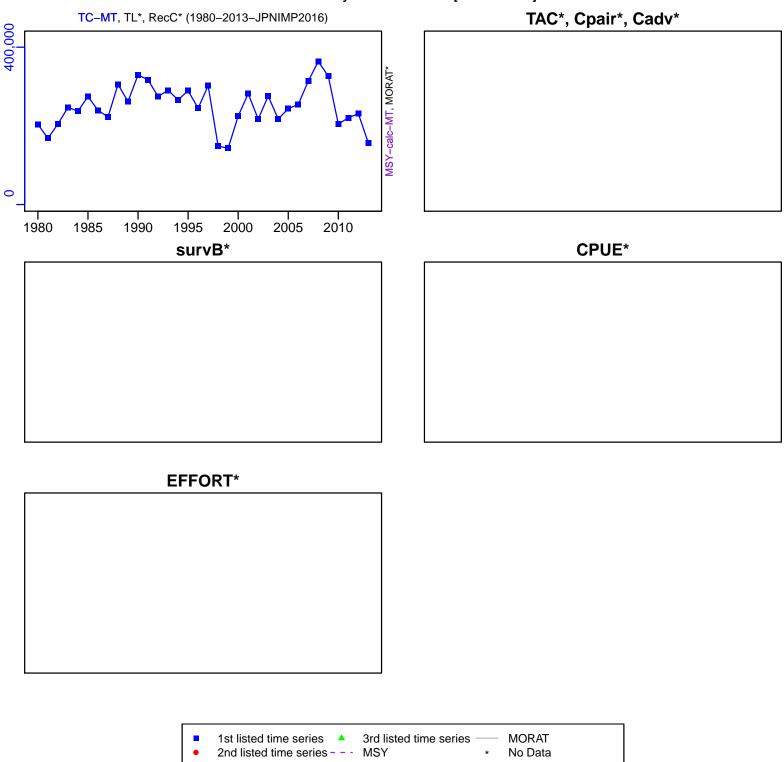
Metadata		
Scientific Name	Cololabis saira	
Current Assess ID	FAJ-SAURNWPAC-1980-2013-JPNIMP2016	
Area Northwest Pacific		
Management Authority Fisheries Agency and Fisheries Research Agency of Jap		
Assessor Fisheries Agency of Japan		
Asmts in RAM	2010, 2013	

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	2,820,000	-	0
SSB	SSB-MT	2013	1,410,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.27 \times 10^{10}$	-	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	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.15		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







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	

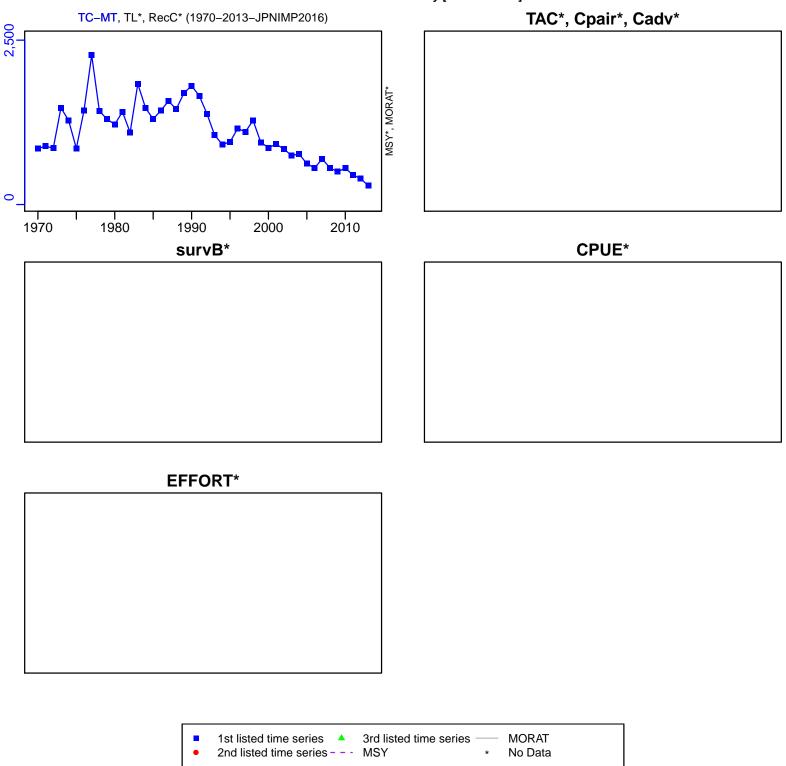
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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*
	<b>—</b> •
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TAI *	<b>-</b> +
TN *	<b>F</b> *
ER*	Recruits*
Listed time series Ta	arget BRP Rec-Est



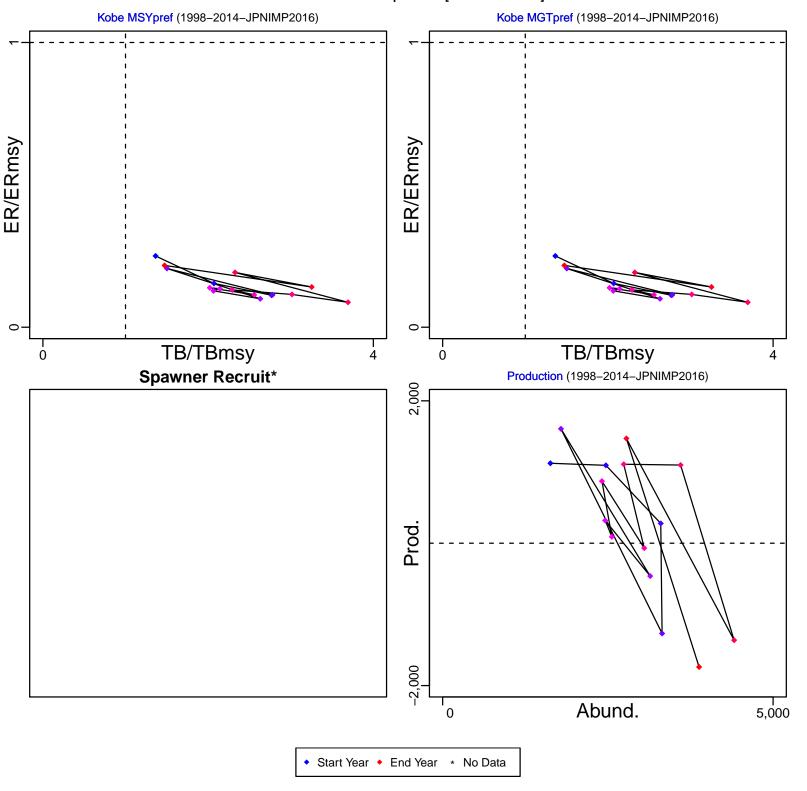
# Snow crab Sea of Japan East [SNOWCRABESJ]

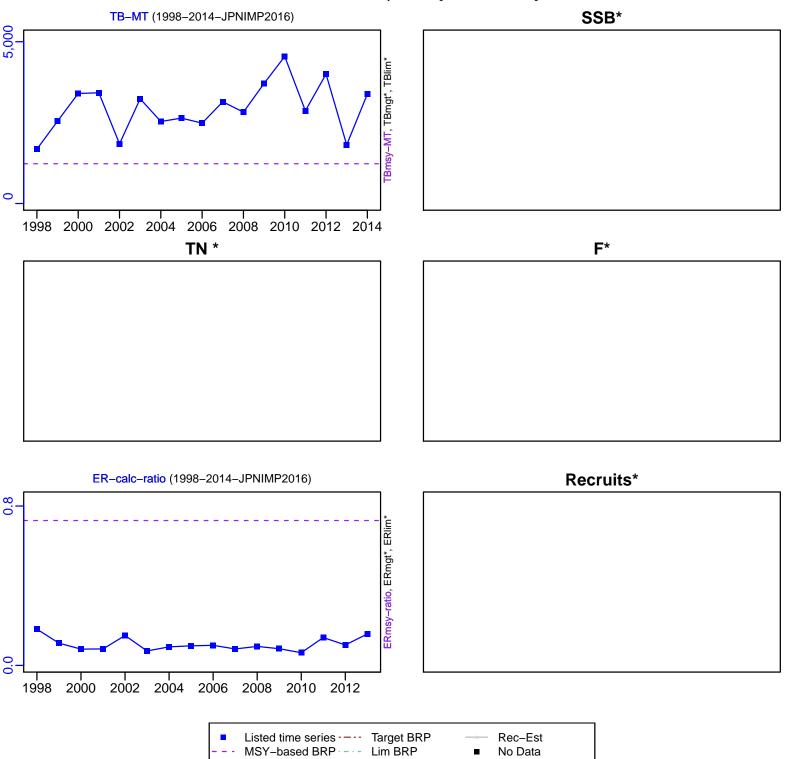
Metadata		
Scientific Name	Chionoecetes opilio	
Current Assess ID	FAJ-SNOWCRABESJ-1998-2014-JPNIMP2016	
Area	Sea of Japan East	
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2014	

Reference Points				
Туре	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	
М	M-1/yr	2014	0.35	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

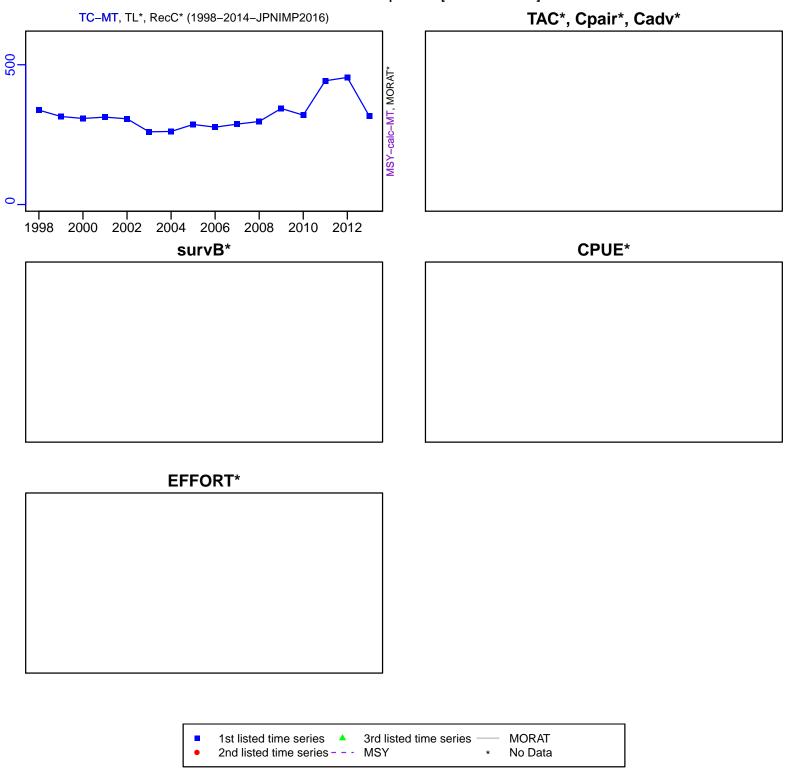
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	3280	-	6
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	265		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	2.75		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.22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

## Snow crab Sea of Japan East [SNOWCRABESJ]





No Data



	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

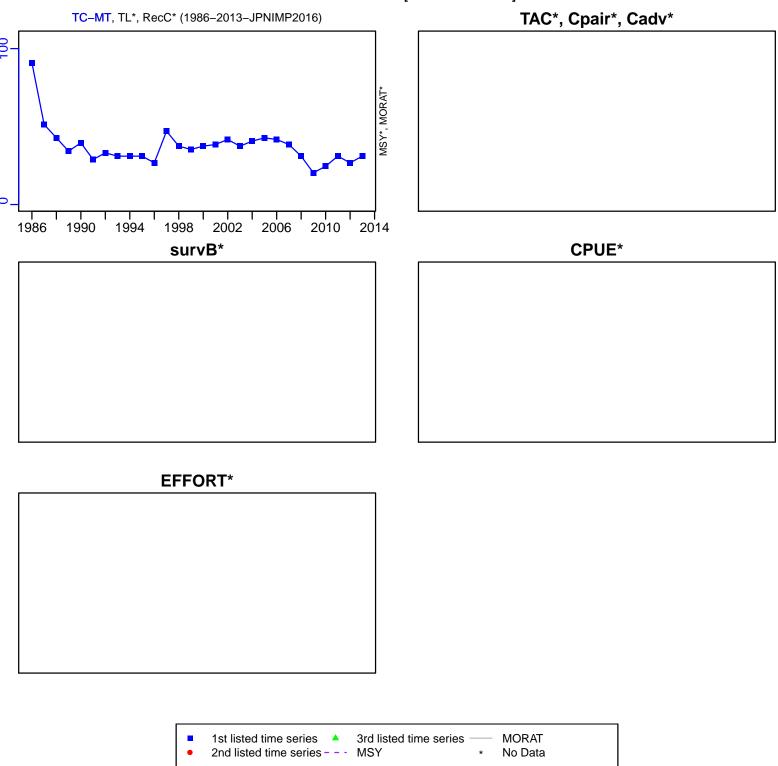
	Referen	ce Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series	i e		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

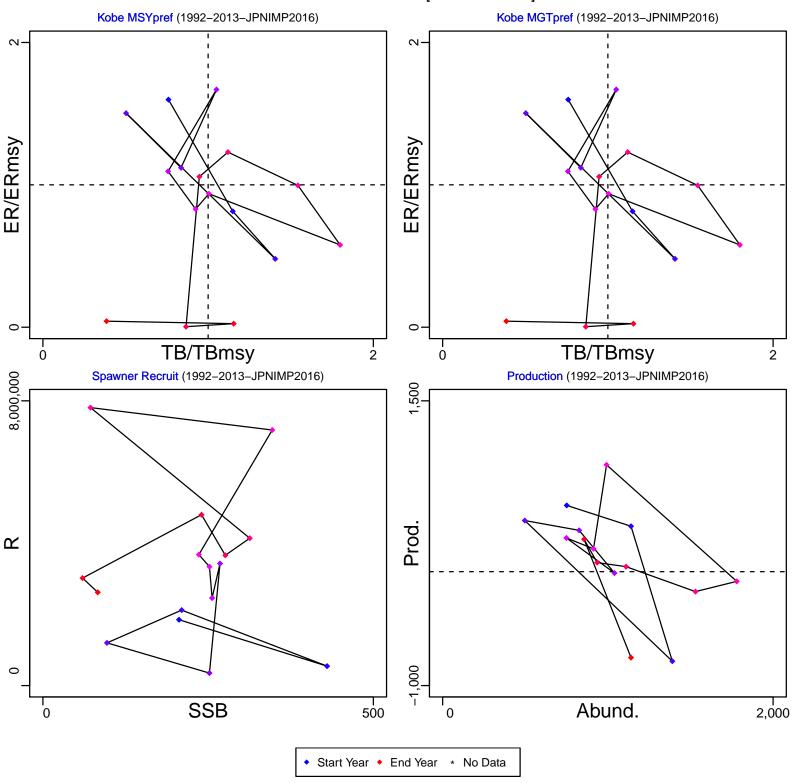
TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data

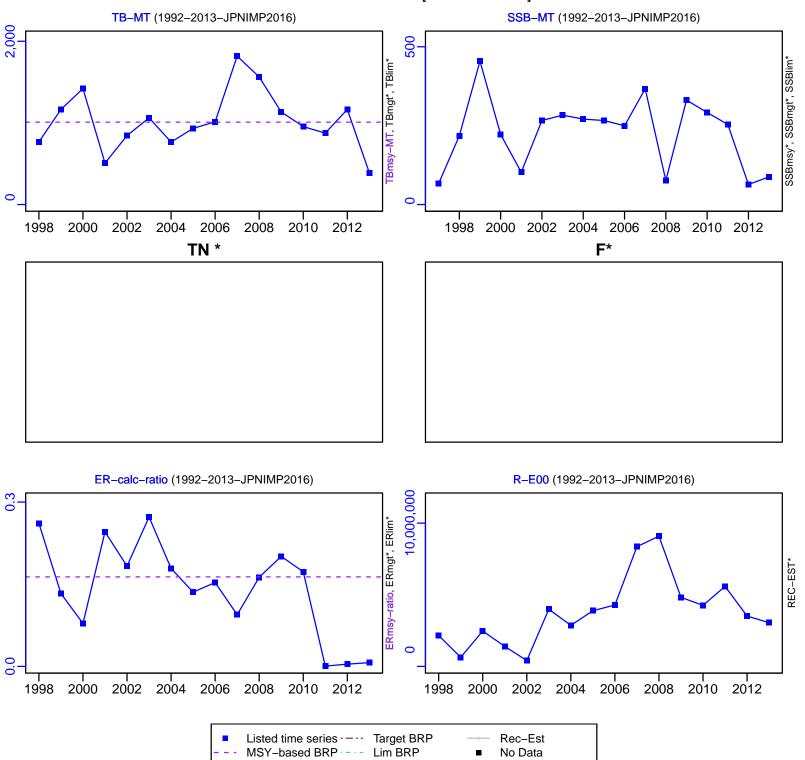


	Metadata
Scientific Name	Chionoecetes opilio
Current Assess ID	FAJ-SNOWCRABNPAC-1992-2013-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan
Assessor	Fisheries Agency of Japan
Asmts in RAM	2013

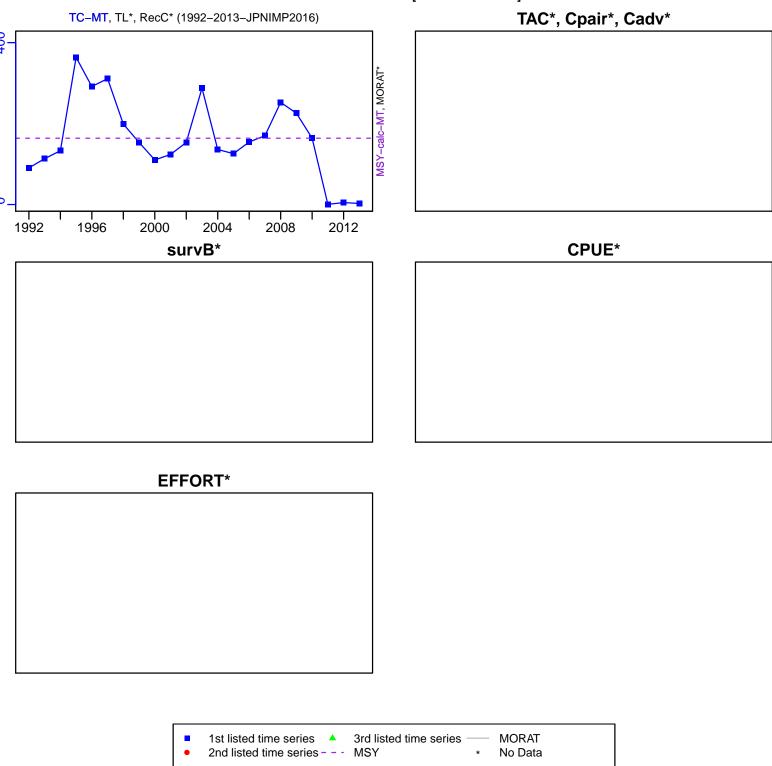
	Reference	Points	
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	988
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.16
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	159
M	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time	Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		





No Data



	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

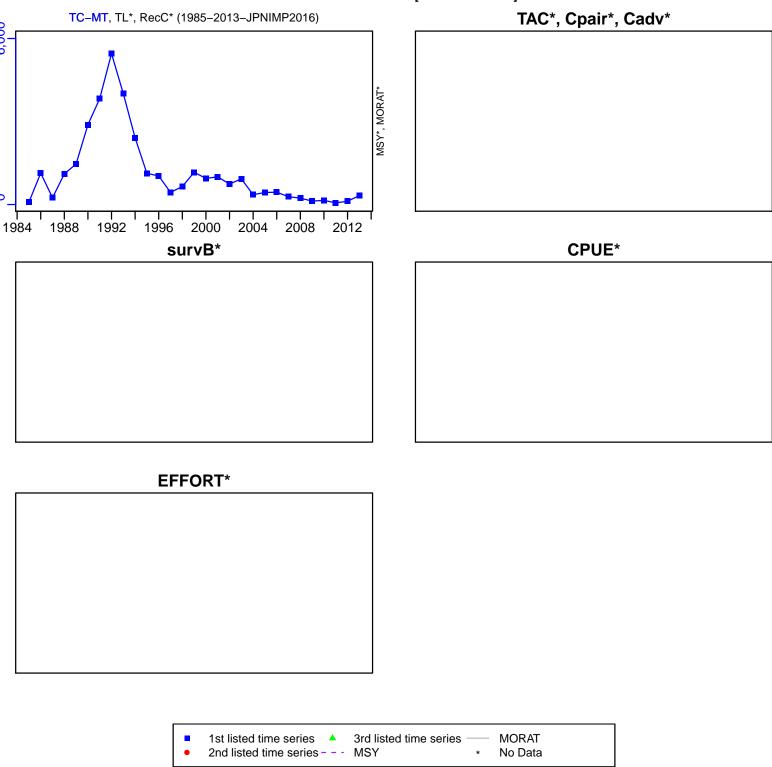
	Referen	ce Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

Kobe MSY*	Kobe MGT*
	<b>.</b>
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

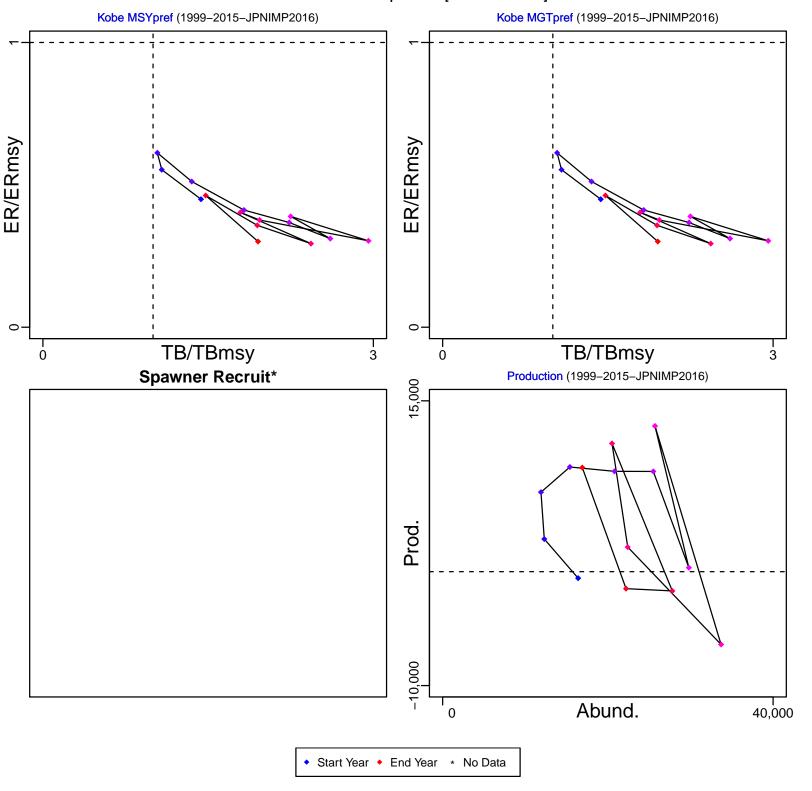
TB*	SSB*
TN *	F*
ER*	Recruits*
Г	1
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data

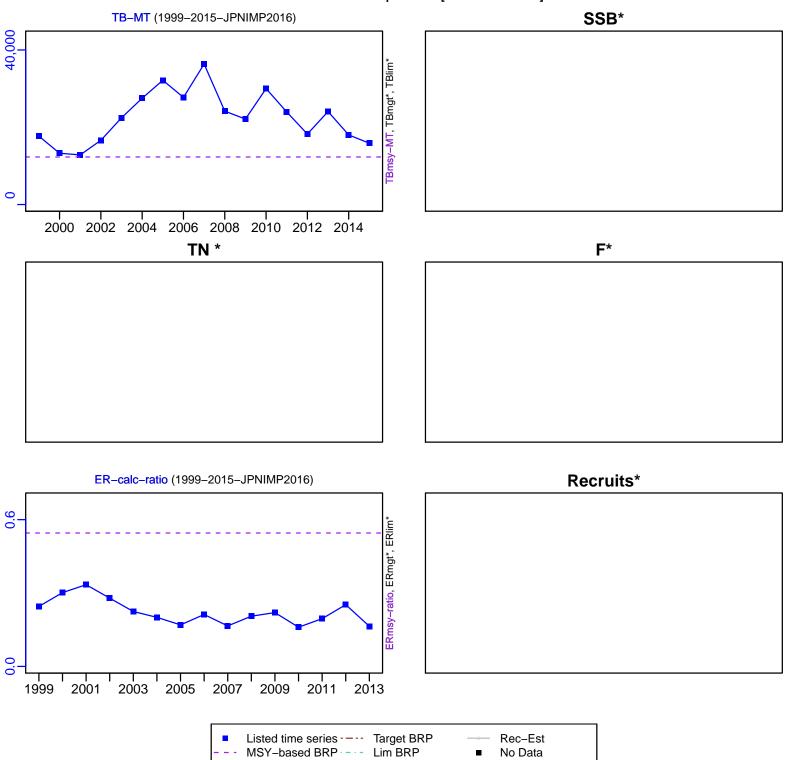


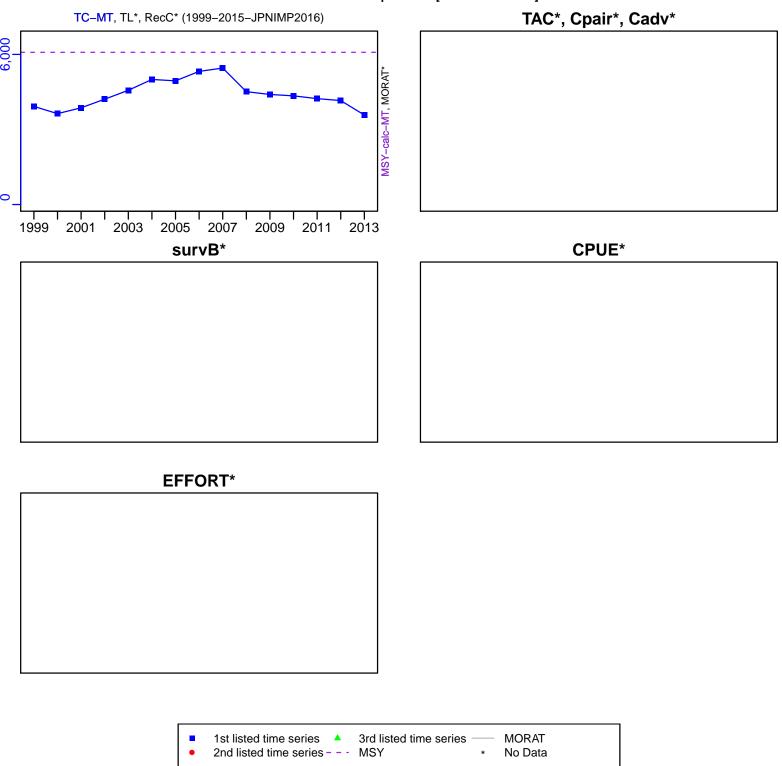
Metadata		
Scientific Name	Chionoecetes opilio	
Current Assess ID	FAJ-SNOWCRABWSJ-1999-2015-JPNIMP2016	
Area Sea of Japan West		
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2015	

Reference Points				
Туре	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	
М	M-1/yr	2015	0.35	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		







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	

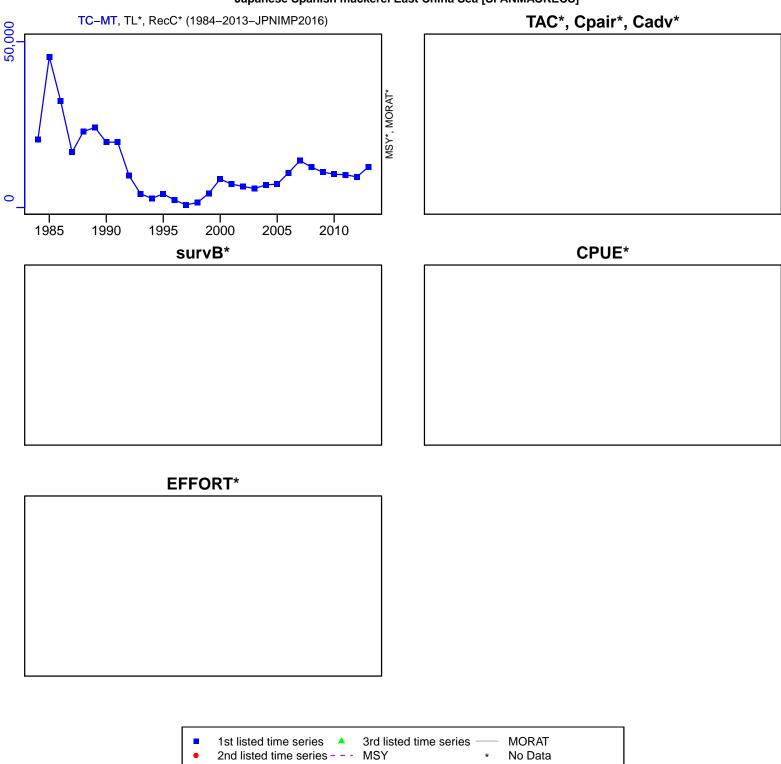
Reference Points							
Туре							
TBmsy	-	-	-				
SSBmsy	-	-	-				
Fmsy	-	-	-				
ERmsy	-	-	-				
TBmgt	-	-	-				
SSBmgt	-	-	-				
Fmgt	-	-	-				
ERmgt	-	-	-				
TB0	-	-	-				
SSB0	-	-	-				
MSY	-	-	-				
M	-	-	-				
TBlim	-	-	-				
SSBlim	-	-	-				
Flim	-	-	-				
ERlim	-	-	-				

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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*
O., D.,	Production*
Spawner Recruit*	Production
Spawner Recruit <sup>*</sup>	Production
Spawner Recruit*	

◆ Start Year ◆ End Year \* No Data

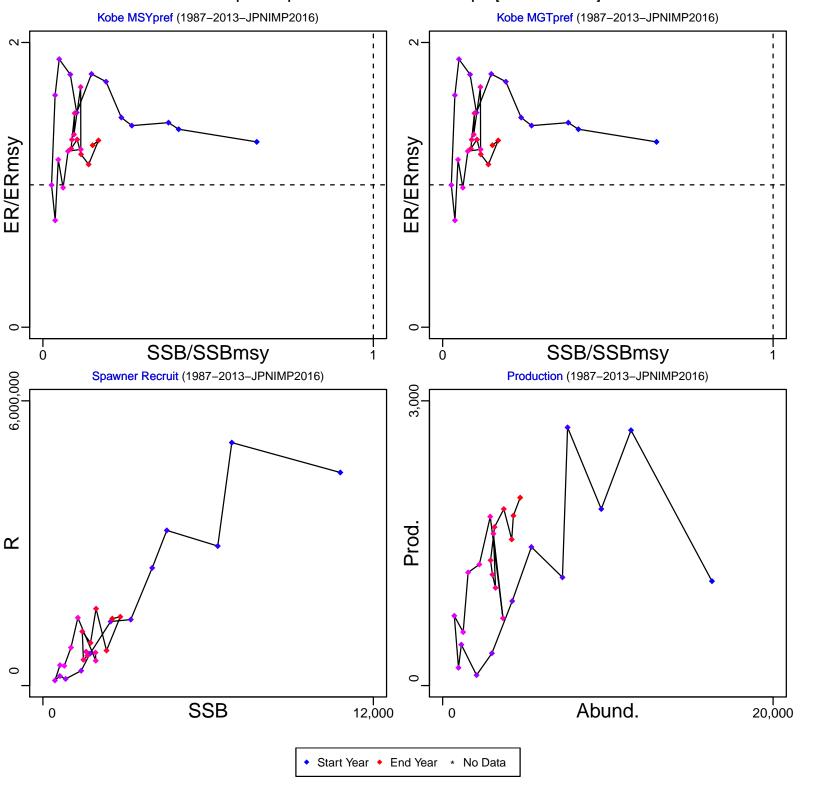
TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data

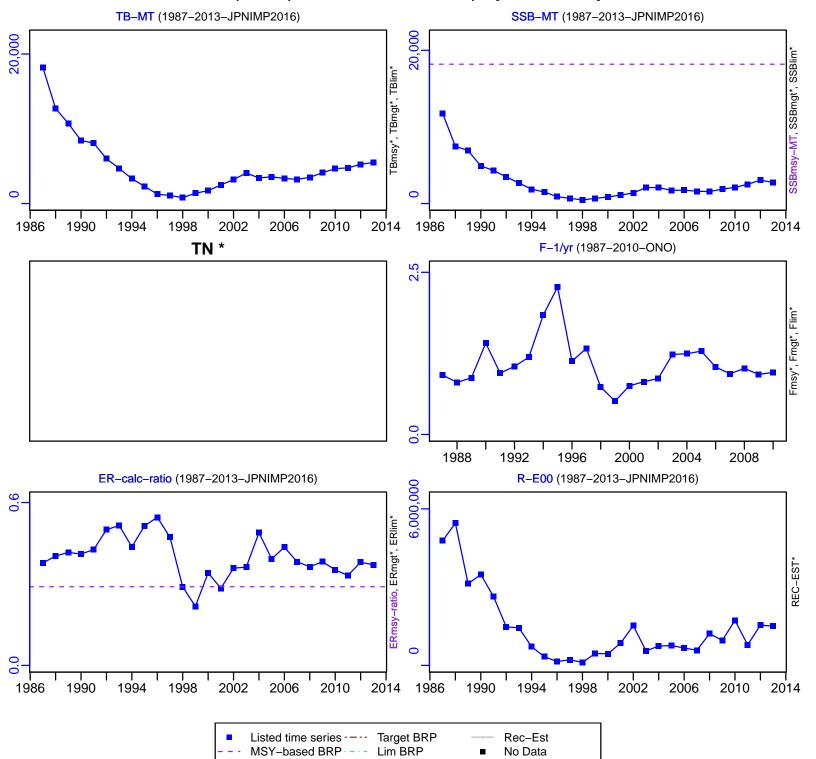


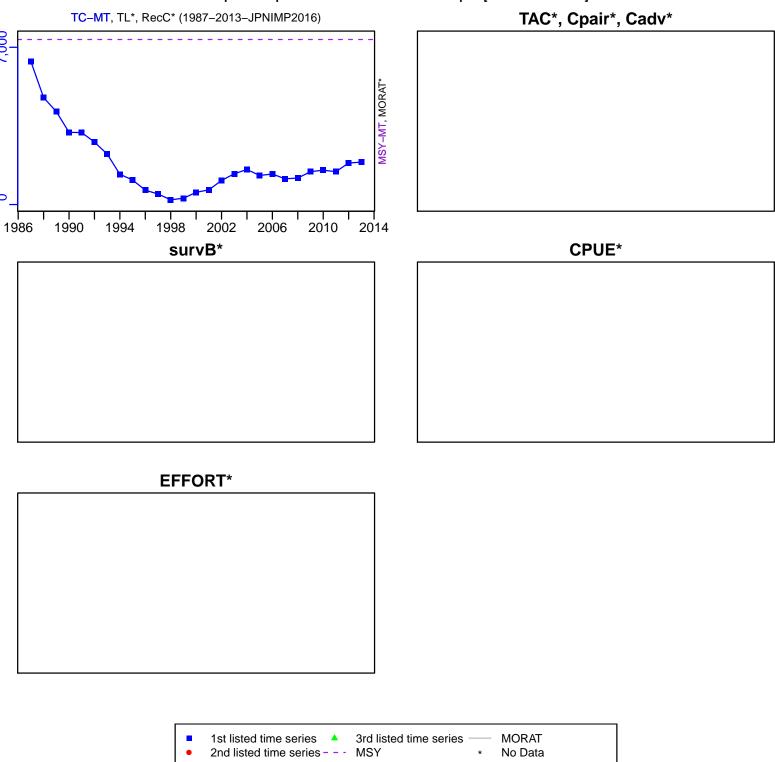
Metadata		
Scientific Name	Scomberomorus niphonius	
Current Assess ID	FAJ-SPANMACKSETO-1987-2013-JPNIMP2016	
Area Inland Sea of Japan		
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2010, 2013	

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		
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	-	-	-		







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 Jap		
Assessor Fisheries Agency of Japan		
Asmts in RAM	2013	

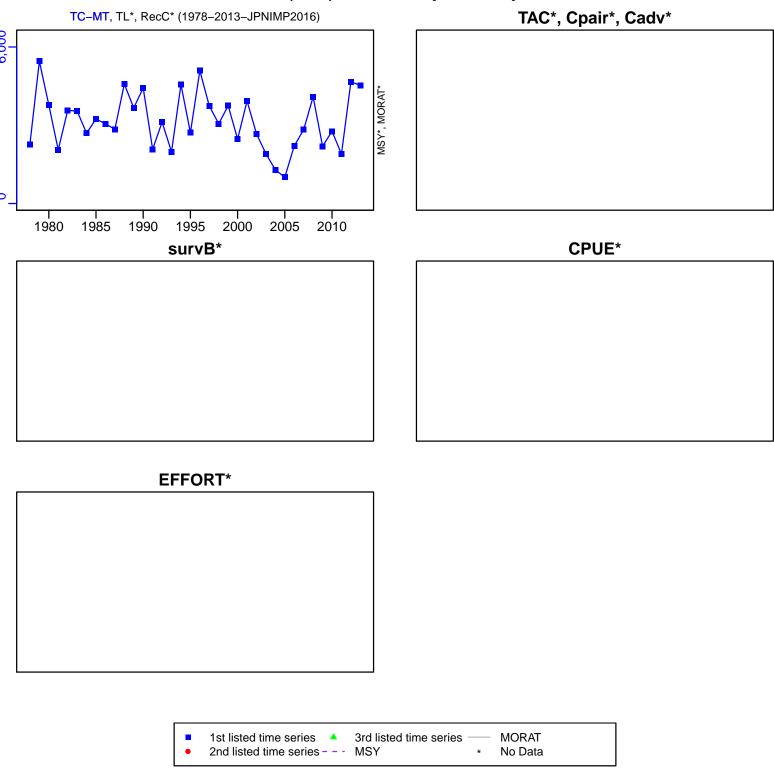
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim		-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data



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	

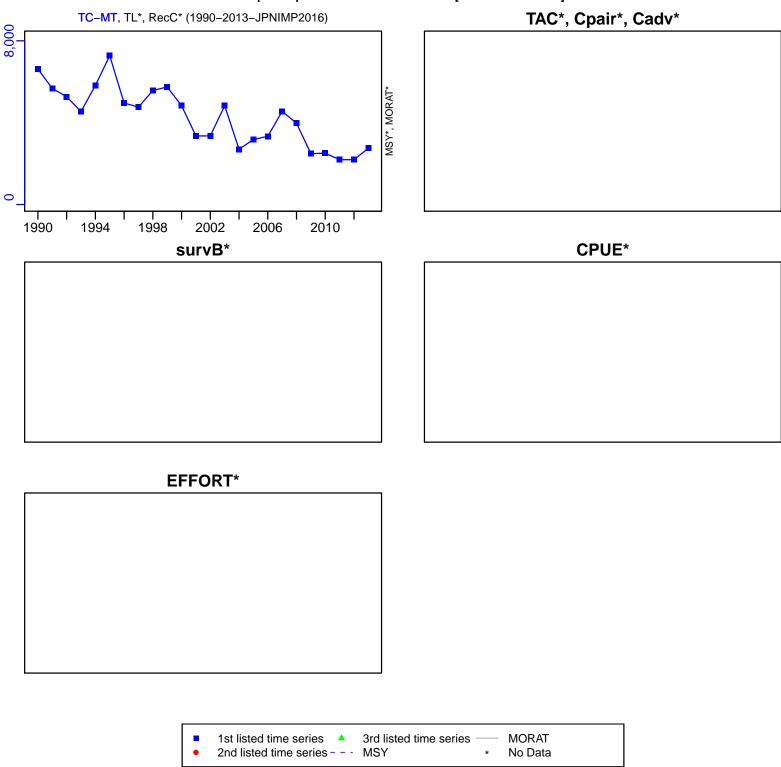
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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*
	<b>.</b>
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
- Linkad Since caving T	proof PDD Pos Fot
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data



# 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 Ja		
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013	

Reference Points				
Туре	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					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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	-	-	-		

### Sailfin sandfish Sea of Japan North [SSANDNSJ]

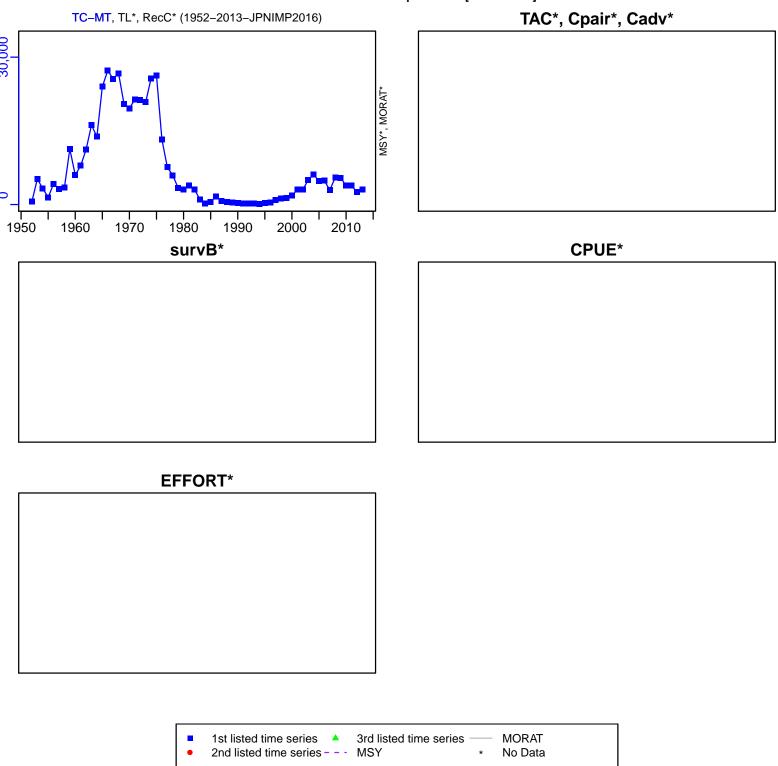
Kobe MSY*	Kobe MGT*		
	Production*		
Spawner Recruit*	Production*		

◆ Start Year ◆ End Year \* No Data

# Sailfin sandfish Sea of Japan North [SSANDNSJ]

TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data

## Sailfin sandfish Sea of Japan North [SSANDNSJ]

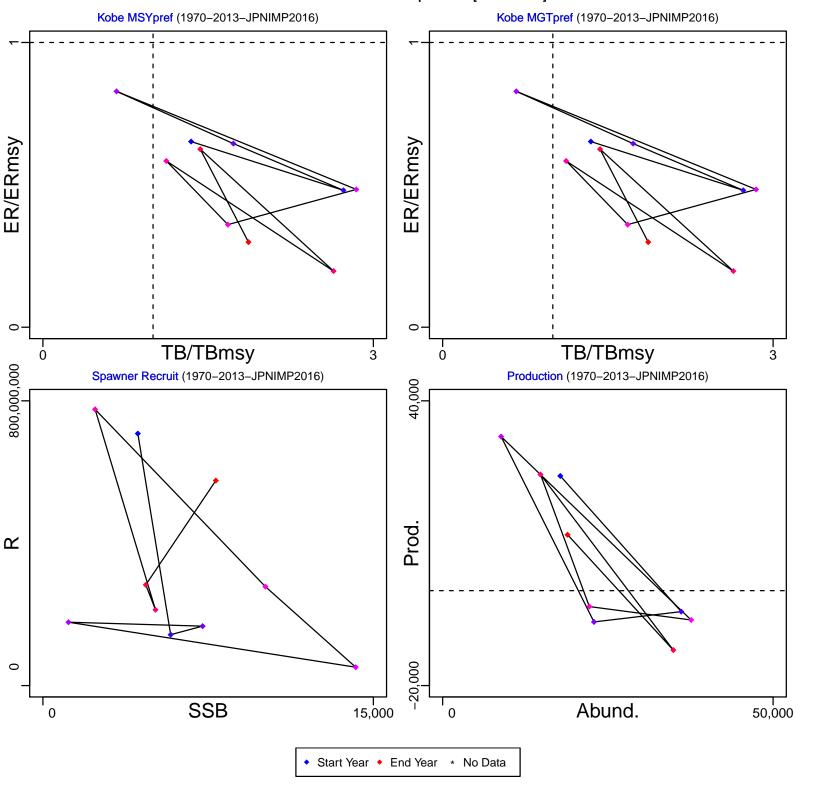


# Sailfin sandfish Sea of Japan West [SSANDWSJ]

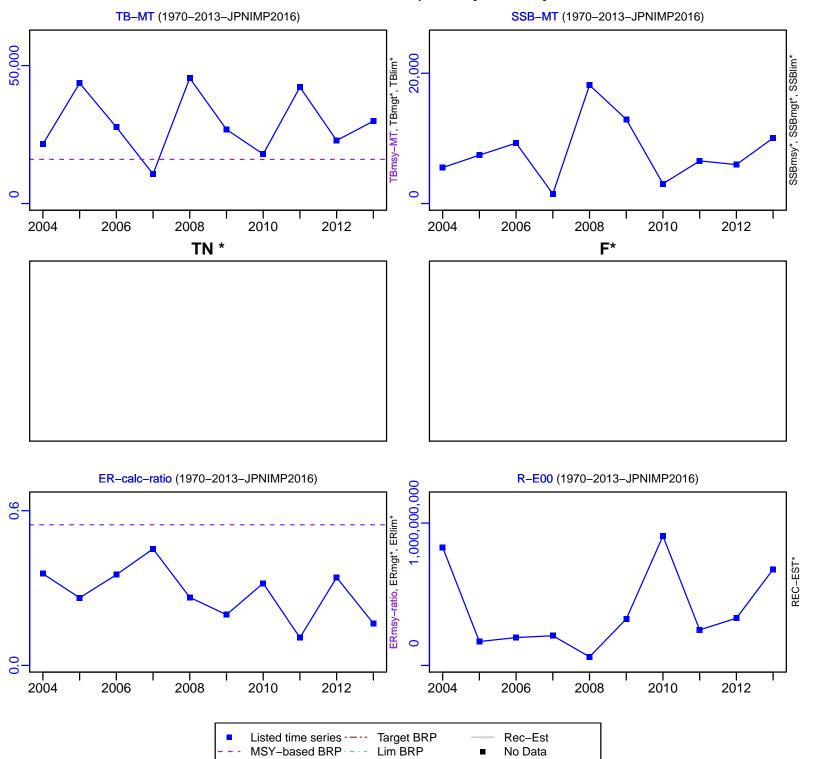
Metadata		
Scientific Name	Arctoscopus japonicus	
Current Assess ID	FAJ-SSANDWSJ-1970-2013-JPNIMP2016	
Area Sea of Japan West		
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013	

Reference Points						
Туре	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	-	-	-			

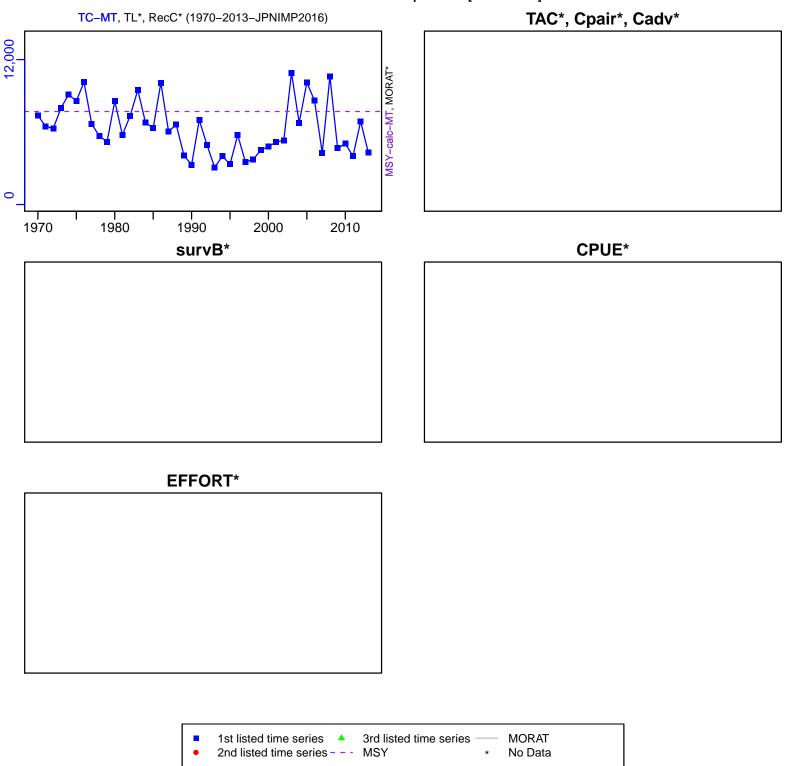
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	24,700	-	1
SSB	SSB-MT	2013	7850	Both	2
TN	-	-	-	-	-
R	R-E00	2013	$5.76 \times 10^{8}$	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	3730		
TL	-	-	-	]	
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.87		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
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]



#### Sailfin sandfish Sea of Japan West [SSANDWSJ]



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	

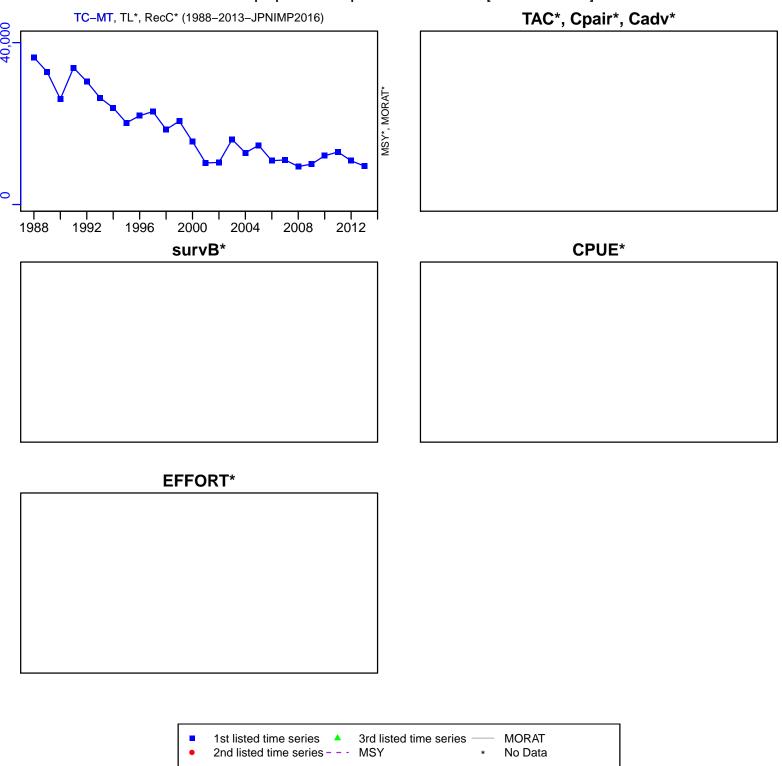
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim		-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
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*
	<b>.</b>
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

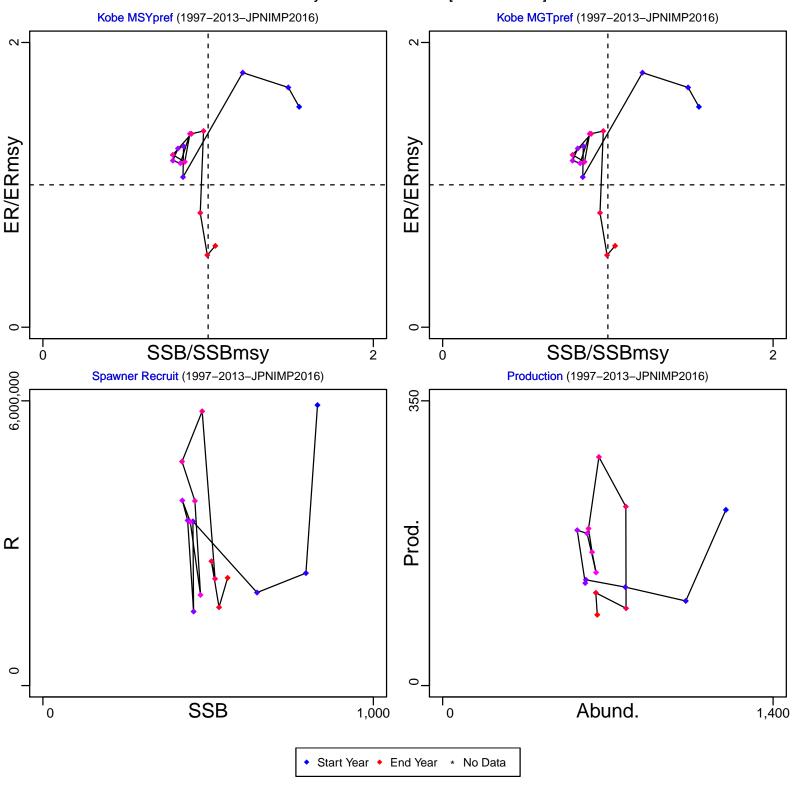
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series T	arget BRP — Rec_Est
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data

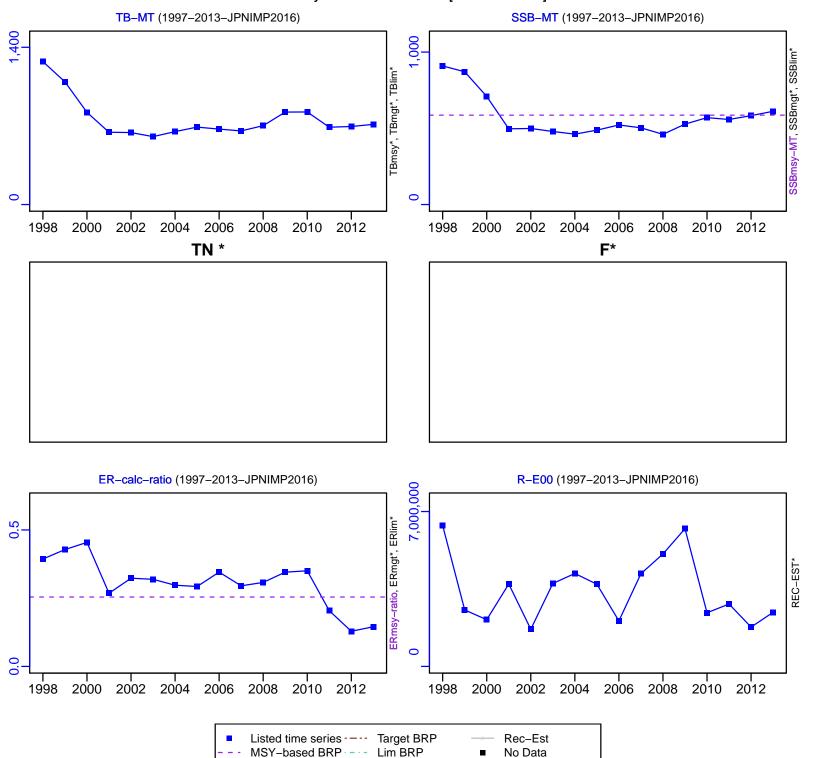


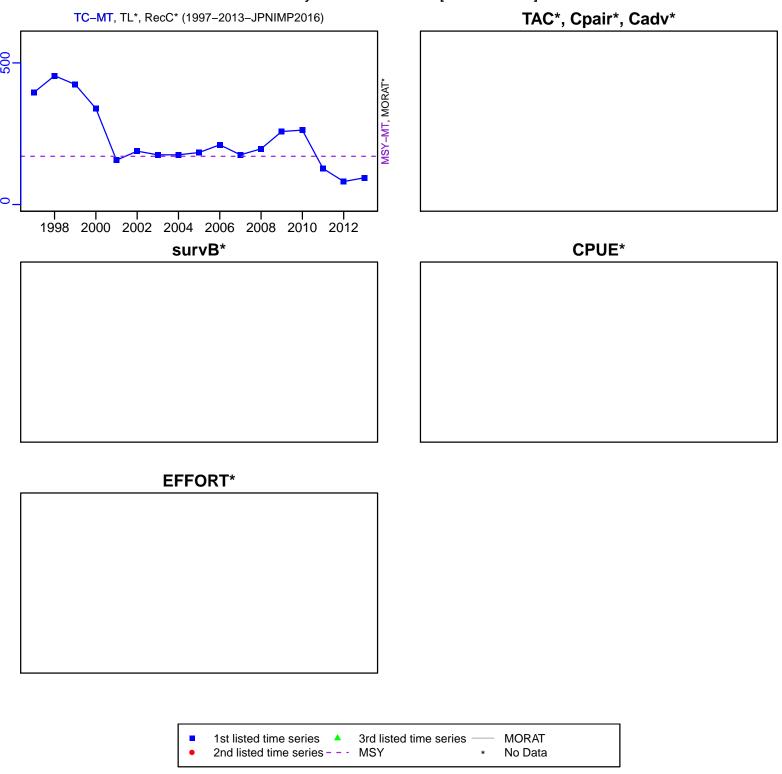
Metadata		
Scientific Name	Tanakius kitaharae	
Current Assess ID	FAJ-WLFLOUNNPAC-1997-2013-JPNIMP2016	
Area North Pacific		
Management Authority	Fisheries Agency and Fisheries Research Agency of Japan	
Assessor	Fisheries Agency of Japan	
Asmts in RAM	2013	

Reference Points					
Туре	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					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		



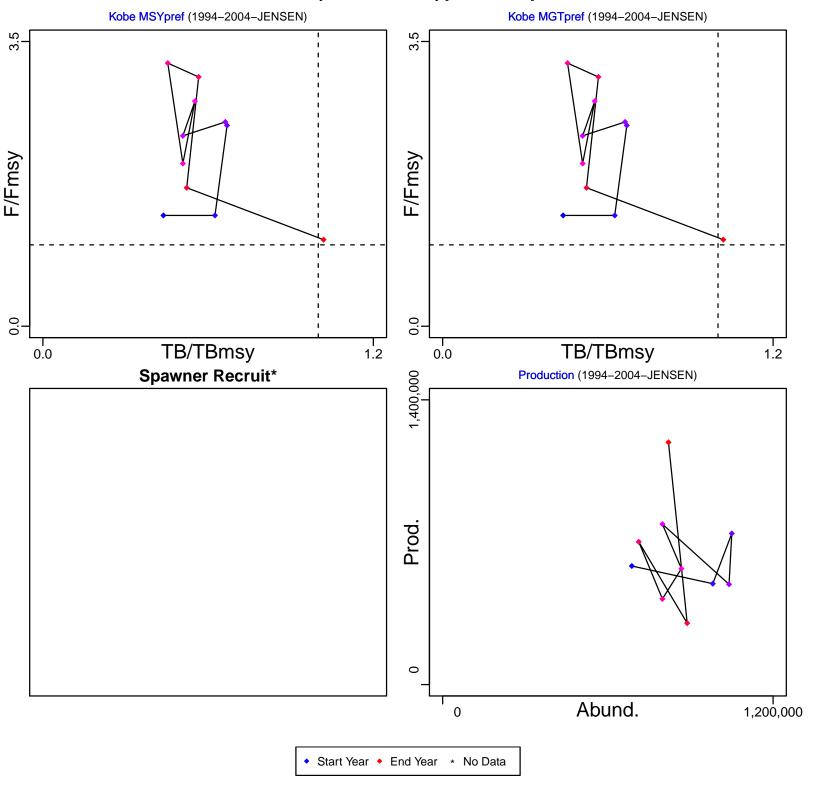


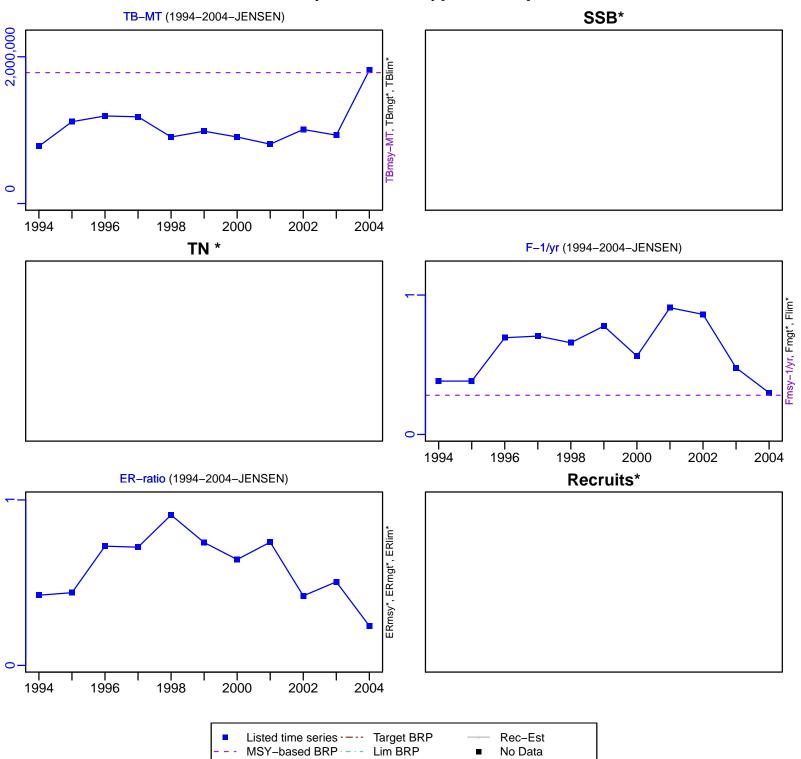


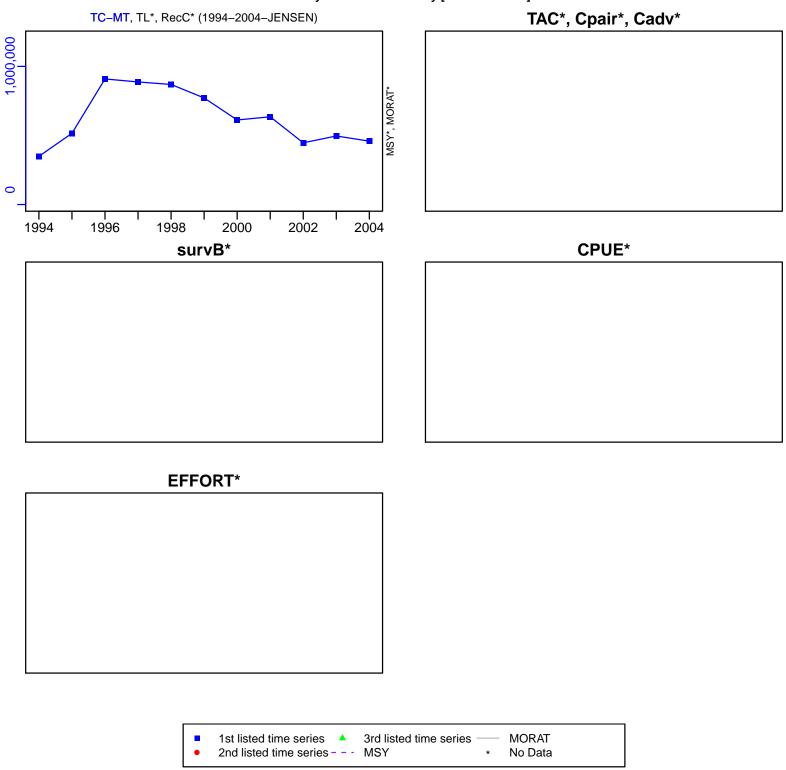
Metadata			
Scientific Name	Theragra chalcogramma		
Current Assess ID	VNIRO-WPOLLNAVAR-1994-2004-JENSEN		
Area Navarinsky			
Management Authority	Russian Federal Fisheries Agency, Russia national management		
Assessor	Russian Federal Research Institute of Fisheries and Oceanography		
Asmts in RAM	2004		

	Reference Points				
Туре	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					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		



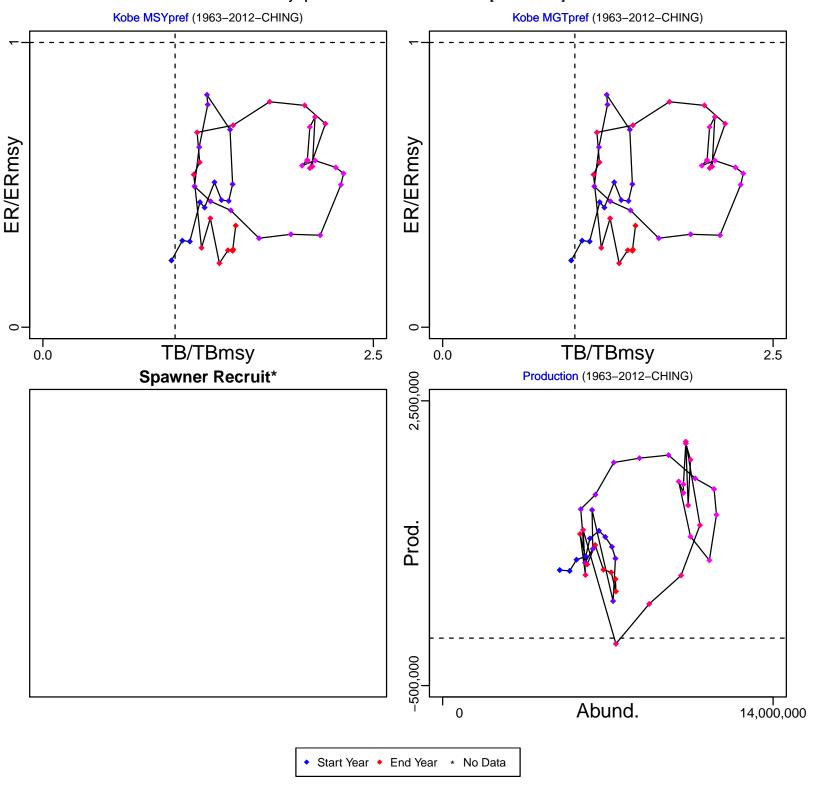


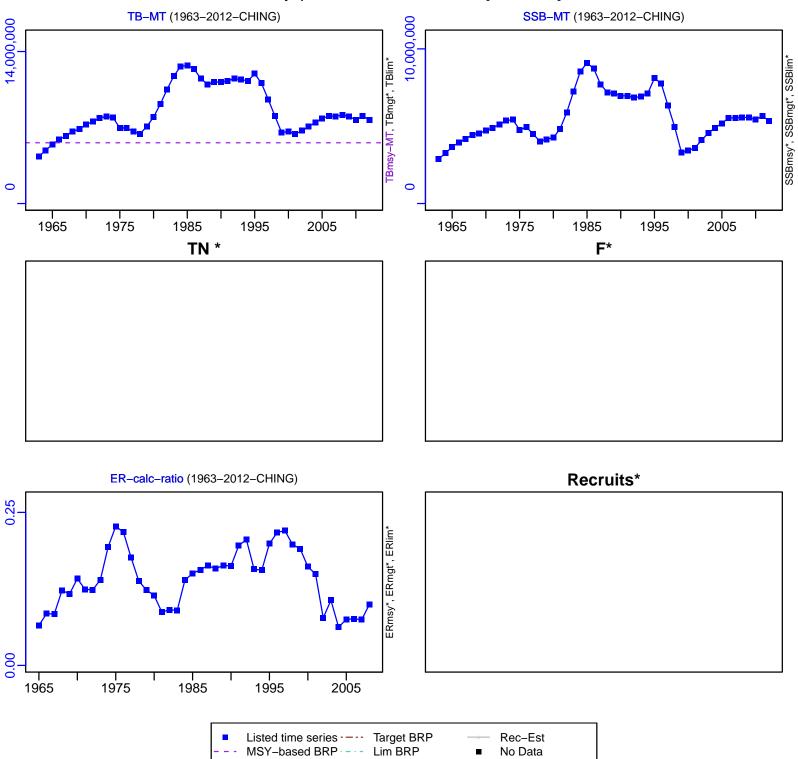


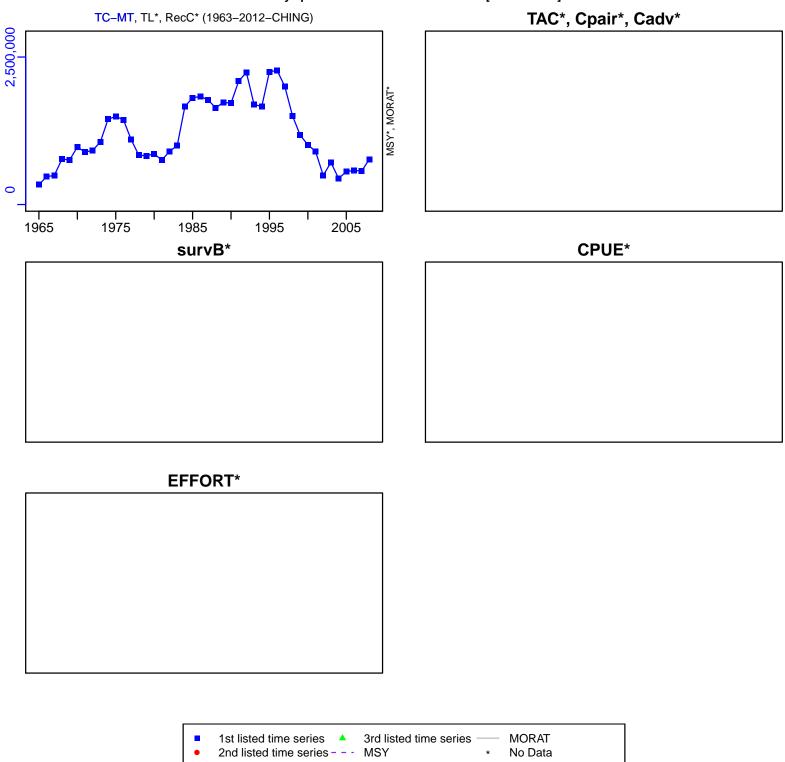
Metadata			
Scientific Name	Theragra chalcogramma		
Current Assess ID	VNIRO-WPOLLNSO-1963-2012-CHING		
Area Northern Sea of Okhotsk			
Management Authority	Russian Federal Fisheries Agency, Russia national management		
Assessor	Russian Federal Research Institute of Fisheries and Oceanography		
Asmts 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					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		



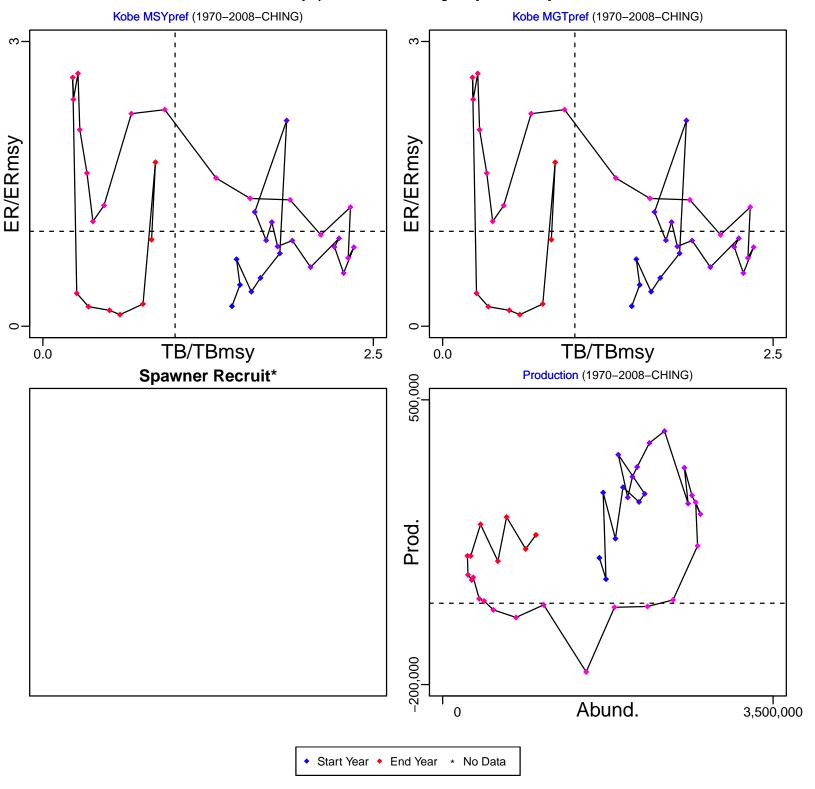


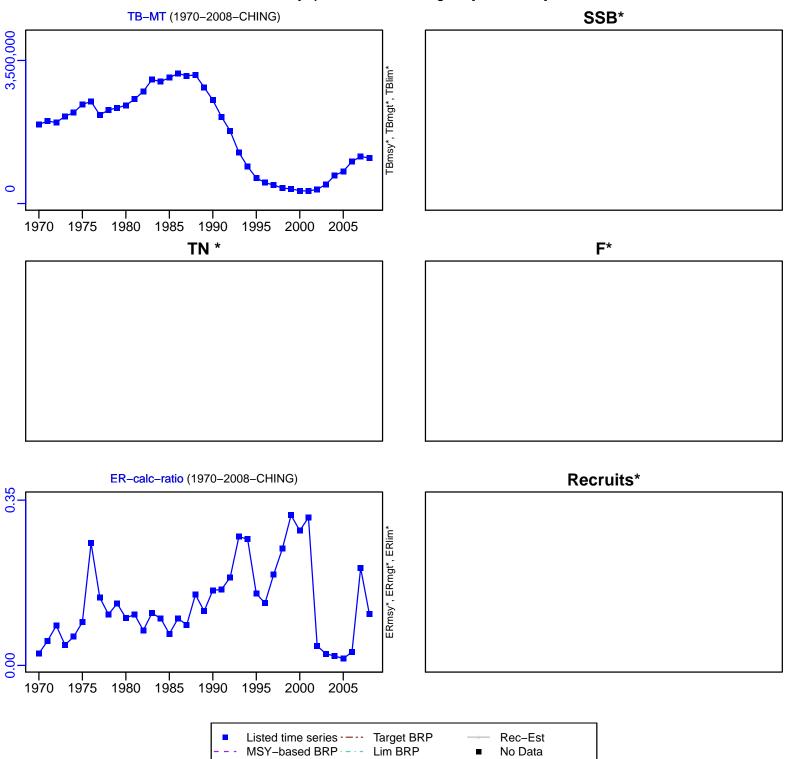


Metadata			
Scientific Name	Theragra chalcogramma		
Current Assess ID	VNIRO-WPOLLWBS-1970-2008-CHING		
Area Western Bering Sea			
Management Authority	Russian Federal Fisheries Agency, Russia national management		
Assessor	Russian Federal Research Institute of Fisheries and Oceanography		
Asmts in RAM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

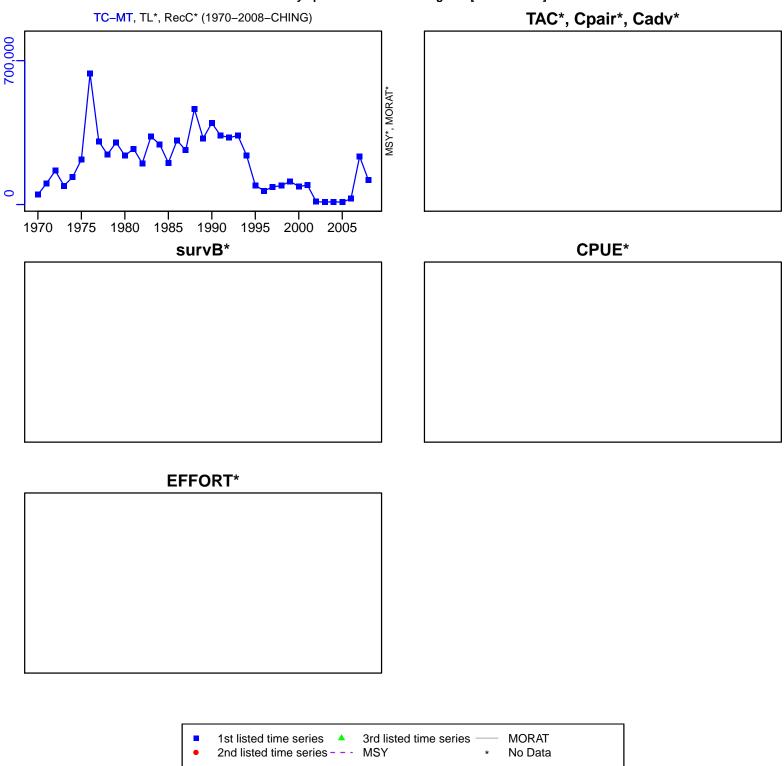
	Reference Points					
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	SSBmsy-MT	2008	362,000			
Fmsy	Fmsy-1/yr	2008	0.13			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0			-			
SSB0	-	-	-			
MSY	-	-	-			
M	-	-	-			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-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

Time Series					
Туре	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	-	-	-		





No Data



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		

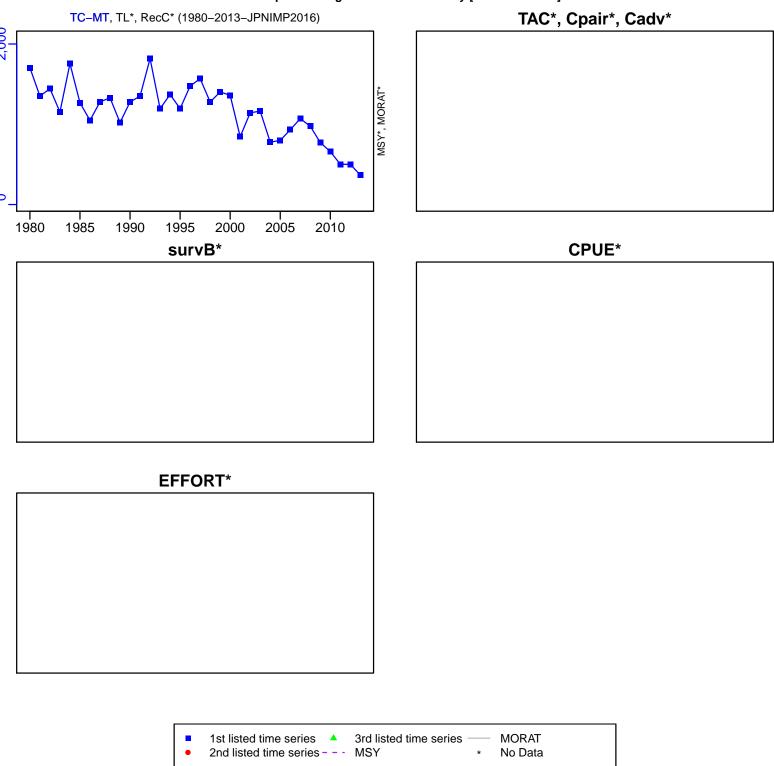
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time porice T	orgat PPD —— Pop Est
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data



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	

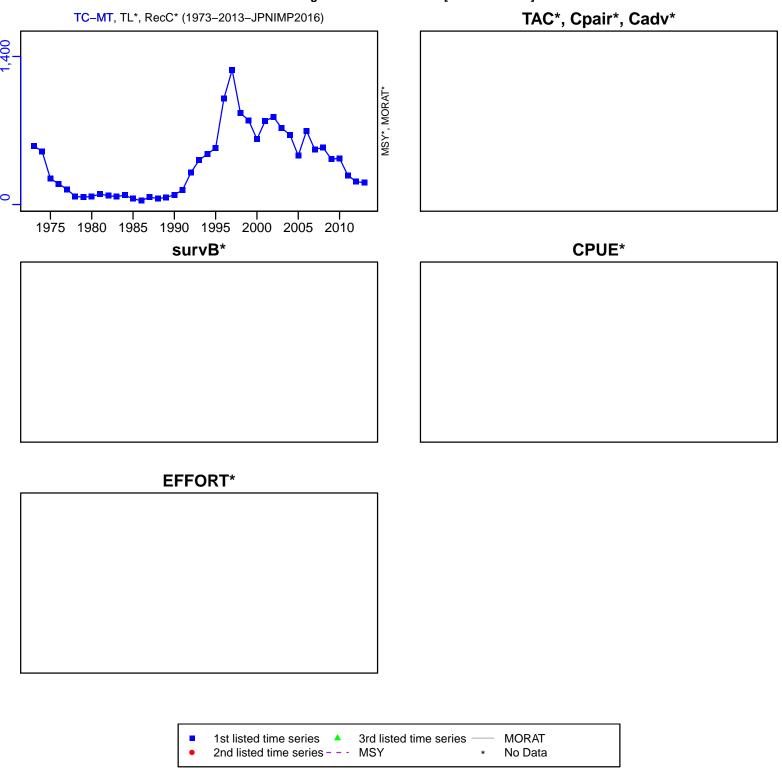
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	<b>F</b> *
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data



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	

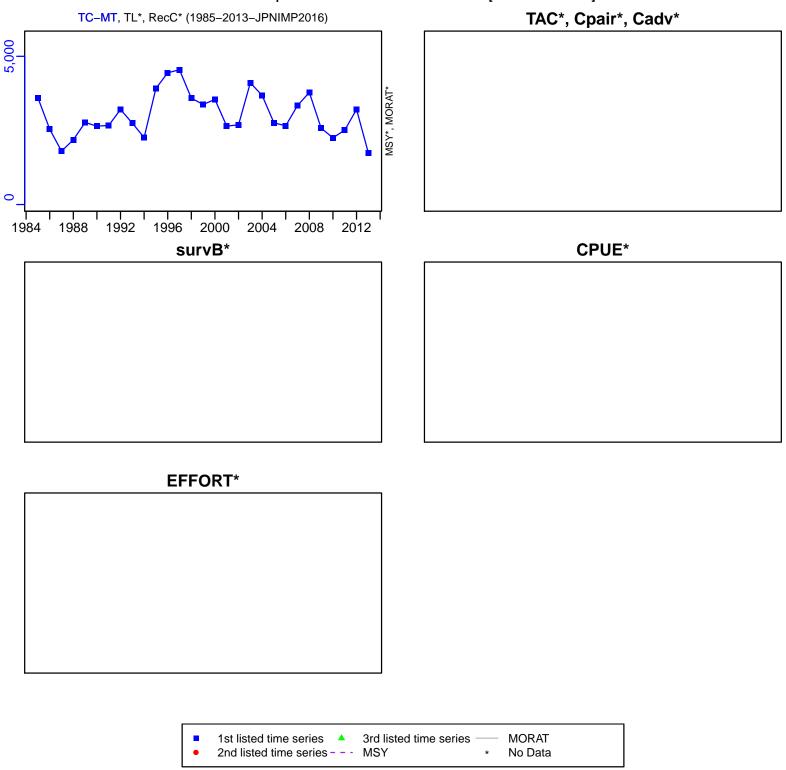
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim		-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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

TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data



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				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*		
TN *	F*		
ED*	De evvite*		
ER*	Recruits*		
	I L		
■ Listed time series Target BRP —— Rec-Est			
■ Listed time series Target BRP — Rec-Est MSY-based BRP Lim BRP ■ No Data			

